Renew Harbor Island

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2nd Quarter 2026 Groundwater Monitoring Report

For Michigan Part 115 CCR Solid Waste Regulations

Former J.B. Sims Generating Station

July 30, 2026

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1.0 Introduction

The former J.B. Sims Generating Station was a coal-fired, steam-generating power facility with a net capacity of approximately 70.5 megawatts that was operated by the Grand Haven Board of Light and Power (GHBLP). The facility is located at 1231 North 3rd Street, on Harbor Island, in Grand Haven, Michigan (**Figure 1**) (the Site). The coal combustion residuals (CCR) generated at the former Site were stored in two CCR units: (1) the inactive Units 1/2 Impoundment and (2) the former Unit 3A/B Impoundments (**Figure 2**). Operations at the Site ceased in February 2020 and the plant subsequently was decommissioned. During deconstruction, wastewater from boiler and infrastructure cleanout was sent to Unit 3A/B. The waste disposal into Unit 3A/B ceased in July 2020.

The U.S. Environmental Protection Agency's (EPA) final CCR Rule 40 CFR §257 and Michigan's Part 115 Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451 (Part 115), establish a comprehensive set of requirements for the management and disposal of CCR (or coal ash). Pursuant to these requirements, federal and state groundwater monitoring programs are performed concurrently for the Site. The current groundwater monitoring network for the CCR units was established in 2022. Background data collection occurred between November 2022 and August 2023 for the current monitoring network and background wells. The first sampling event after the background monitoring period using the updated monitoring network occurred in October 2023. The October 2023 sampling event was considered both a detection and assessment monitoring event based on the prior status of the Site in assessment monitoring before the well network was updated. Both statistically significant increases (SSI) of constituents in groundwater above the background values and statistically significant levels (SSLs) of constituents over groundwater protection standards (GPS) were identified from the October 2023 sample event. Therefore, the status of the groundwater monitoring program for both CCR units is assessment monitoring and evaluation of potential remedies. The Site initiated assessment of corrective measures, pursuant to Part 115 R299.4443, on May 1, 2024, following the identification of SSIs at one or more monitoring wells. The Assessment of Corrective Measures was published August 5, 2024, and additional data collection continued through 2025 and 2026 to further support the remedy selection process.

This Groundwater Monitoring Report presents the activities completed in the second quarter of 2026.

1.1 Background

The former Unit 3A/B Impoundments were engineered, clay-lined, above-ground units that ceased receiving CCR material in July 2020. In 2017, a Groundwater Monitoring System Certification was first developed for the Unit 3A/B Impoundments, which consisted of one background well (MW-07), four (4) downgradient detection monitoring wells (MW-01R, MW-02, MW-03, and MW-04), and an additional assessment monitoring well (MW-09) (ERM, 2017). Groundwater monitoring conducted in 2017 by GHBLP identified statistically significant increases (SSIs) of constituents in groundwater, and therefore the GHBLP implemented assessment monitoring (Golder, 2018). Assessment monitoring identified SSLs over the GPS at

the Site and, therefore, GHBLP stated that they were initiating assessment of corrective measures for the Site; however, that document (Golder, 2018a) was completed prior to the inclusion of the Units 1/2 Impoundment CCR unit and thus only represents the status of the Unit 3A/B Impoundments. The inactive CCR Units 1/2 Impoundment was a depression in the ground where sluiced ash was disposed.

The inactive Units 1/2 Impoundment ceased receiving CCR material in 2012. After adding monitoring wells to the network to address the Units 1/2 Impoundment, the Updated Notice of Groundwater Protection Standard Exceedance was issued to document SSLs over GPS for both Units 1/2 Impoundment and Unit 3A/B Impoundments on July 22, 2021.

In 2021, to better understand the groundwater flow on the Island, and to verify that the monitoring network in place at the time was adequate, 22 piezometers, six (6) staff gauges, and 3 stilling wells were installed. The Field Summary Report of Results from Approved Work Plan - Piezometer Installation and Additional Data Collection suggested that MW-07 may be an inappropriate location for a background well due to the potential for groundwater to flow from the Units 1/2 Impoundment toward MW-07 (Golder, 2022). Therefore, in 2022 a new groundwater monitoring network was selected for the CCR units, including new background wells.

Background data collection for the updated monitoring network and new background wells occurred between November 2022 and August 2023. The first sampling event after the updated background monitoring period occurred in October 2023, and quarterly monitoring has been conducted in 2024, 2025, and the first two quarters of 2026.

Figure 1 | Site Vicinity Map

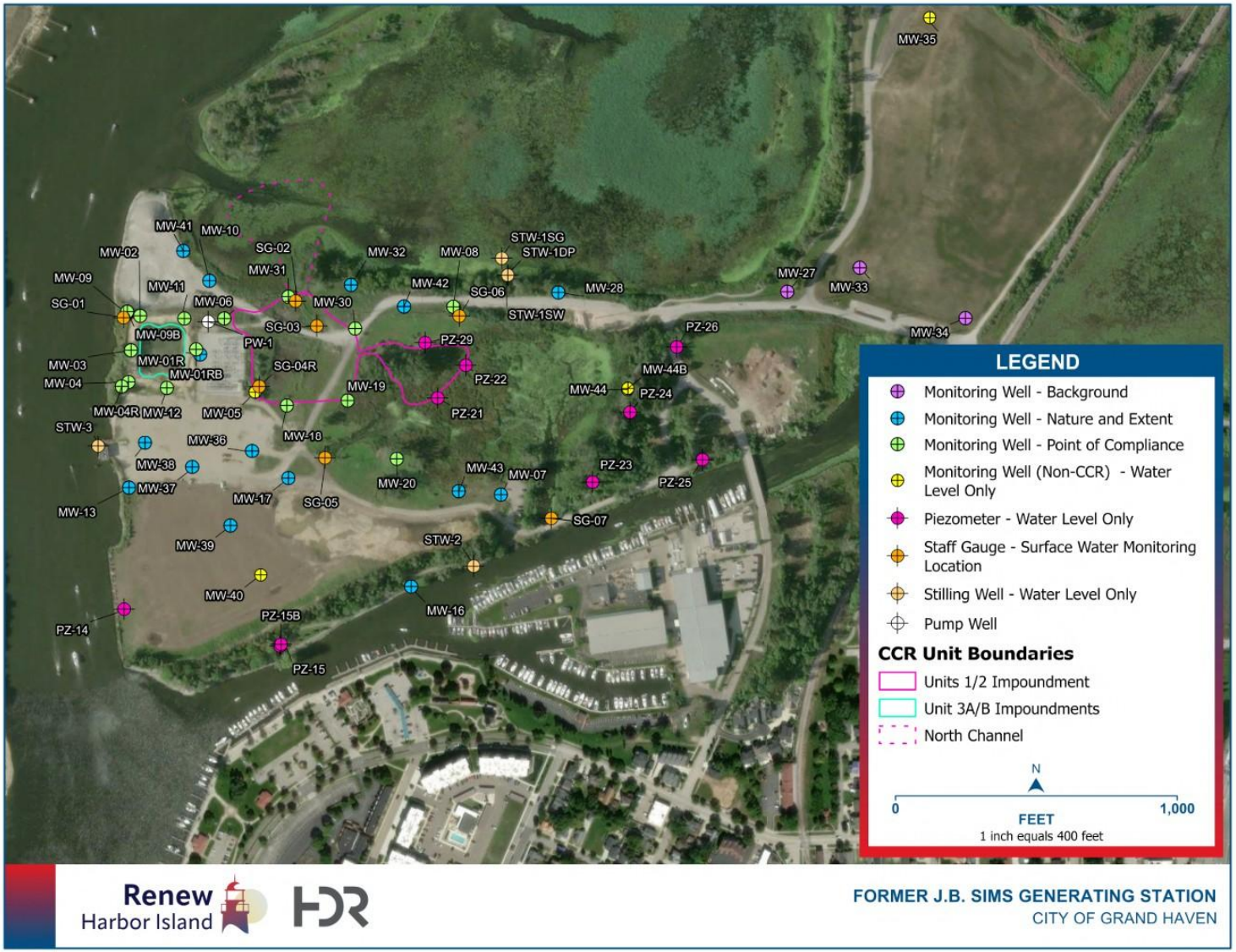

Figure 2 | Former J.B. Sims CCR Units and Monitoring Wells

2.0 Facility Description

2.1 Units 1/2 Impoundment

The inactive CCR Units 1/2 Impoundment was a depression in the ground where sluiced ash was disposed. The inactive Units 1/2 Impoundment ceased receiving CCR materials in 2012. Due to the abstract size and lack of defined boundaries, the Units 1/2 Impoundment was delineated by Golder in the 2019 report *CCR Impoundment Ash Delineation at the J.B. Sims Generating Station* (Golder, 2019). Following the submission of the delineation report, the boundary of the inactive Units 1/2 Impoundment was agreed upon by GHBLP, EPA, and EGLE, which includes an area of sluiced ash disposal to the east of MW-30 into the Internal Wetland (**Figure 2**). The parties also agreed that the North Channel (**Figure 2**) adjacent to the Units 1/2 Impoundment would be evaluated for potential inclusion in the revised boundary of the Units 1/2 Impoundment. After field investigation of the North Channel area to delineate coal ash, and submittal of the investigation data and proposed additional data collection, EGLE and EPA determined that the coal ash associated with the North Channel is not associated with the Units 1/2 Impoundment. EGLE and EPA indicated that the North Channel coal ash would be evaluated as a potential CCR Management Unit under the EPA CCR Legacy Rule (40 CFR §257.95) (currently under review by EPA) (**Figure 2**).

2.2 Unit 3A/B Impoundments

The former CCR Unit 3A/B Impoundments were constructed as two above-ground surface impoundments underlain by a clay liner; however, the engineered clay liner did not meet Part 115 CCR surface impoundment liner criteria (**Figure 2**). Golder (2020) stated that the former 3A/B Impoundments were built over a “field of ash” that was generated from Boiler Units 1 & 2. Although the former coal-fired power generation facility ceased operations in February 2020, the Site continued to use the Unit 3A/B Impoundments to store cleanout materials from the hoppers, vessels, etc. prior to demolition of the buildings. The impoundments ceased receiving waste on July 30, 2020. Removal of CCR from the impoundments was completed on November 6, 2020, and the liner remains in place. Following the CCR removal, Golder conducted coal ash removal verification that was ultimately denied by EGLE. Further coal ash delineation was conducted in 2025 to define the extent of any residual CCR on the roads adjacent to the Unit 3A/B Impoundments.

2.3 Hydrogeology

The uppermost aquifer across Harbor Island consists of fine sand with gravel and silt lenses, clay, peat, coal ash, and municipal solid waste. The base of the aquifer is a continuous fine-grained unit typically described as a sandy silt, clayey silt, or silty sand found as shallow as 20.5 below ground surface (bgs) on the east side of Harbor Island (i.e., piezometer PZ-26) and as deep as 38.5 feet bgs on the west side (i.e., well PW-1). The fine-grained unit has been observed between these depths in borings MW-12, PZ-14, MW-16, MW-17, MW-18, MW-20, PZ-24, PZ-25, PZ-27, MW-30, MW-01RB, PW-1, and in four borings (DB-01 through DB-04) completed in November 2025 to further map the base of the aquifer. Beneath the silt, a massive

silty clay unit is present. The silty clay is at least 103.5 feet thick at boring PDR-3, located near the former power plant footprint, which was drilled in 2019 to 151.5 feet and did not break out of the clay. **Figures 3 and 4** illustrate the inferred surface elevations of the silt and clay units, respectively.

Figure 3 | Inferred Elevation of Silt Surface

The Grand River is located on the western side of Harbor Island, and the South Channel of the Grand River is located on the south side of Harbor Island. The northern side of Harbor Island is bordered by the Northern Wetland, which is typically embayed by the Grand River during high river stages. The center of Harbor Island is the Internal Wetland.

Groundwater mounding is typically present south and east of the Unit 3A/B impoundments, centered around wells MW-12 and MW-01R). A groundwater contour map of water levels measured at the start of the second quarter 2026 sampling event is in **Appendix A**. The map shows groundwater flow beneath the Unit 3A/B Impoundments is west toward the Grand River. Groundwater flow beneath the Units 1/2 Impoundment is generally radial: northward toward the Northern Wetland, east from the ponds of the Units 1/2 Impoundment toward the Internal Wetland, and potentially south near MW-05 (**Appendix A**). The Internal Wetland east of the

Units 1/2 Impoundment hydraulically separates the CCR impoundments and the wells and piezometers located to the east (PZ-23 through PZ-26, MW-27, MW-33, and MW-34) and acts as a hydraulic sink with groundwater flowing towards the wetland from east and west.

Figure 4 | Inferred Elevation of Clay Surface

Groundwater mounding is typically present south and east of the Unit 3A/B impoundments, centered around wells MW-12 and MW-01R. A groundwater contour map of water levels measured at the start of the second quarter 2026 sampling event is in **Appendix A**. The map shows groundwater flow beneath the Unit 3A/B Impoundments is west toward the Grand River. Groundwater flow beneath the Units 1/2 Impoundment is generally radial: northward toward the Northern Wetland, east from the ponds of the Units 1/2 Impoundment toward the Internal Wetland, and potentially south near MW-05 (**Appendix A**). The Internal Wetland east of the Units 1/2 Impoundment hydraulically separates the CCR impoundments and the wells and piezometers located to the east (PZ-23 through PZ-26, MW-27, MW-33, and MW-34) and acts as a hydraulic sink with groundwater flowing towards the wetland from east and west.

Slug tests have been performed and analyzed at 21 monitoring wells and piezometers, with average hydraulic conductivities ranging from 0.055 feet per day (ft/d) at well MW-14, to 242 ft/d at piezometer PZ-20 (**Table 1**). The range in hydraulic conductivity is consistent with the variable stratigraphy, particularly in the upper 20 feet of Site soils. Additionally, a single recovery test was performed at well MW-44B, which was intentionally screened in clay to evaluate the hydraulic properties of the clay. For the test, MW-44B was pumped to near dryness, and the rate at which it recovered over the next 19 hours was monitored. The estimated hydraulic conductivity of 4.6E-06 ft/d (1.62E-09 cm/s) is consistent with clay.

In March 2026, a constant-rate aquifer pumping test was performed at pumping well PW-1, located northeast of the Unit 3A/B Impoundments (**Figure 2**). The pumping well was screened in fine to coarse sand from 28 to 38 feet bgs, and pumped for 34 hours at approximately 112 gallons per minute (GPM). Based on drawdown observed at well MW-01RB, also screened in the fine-to-coarse sand unit, the hydraulic conductivity was estimated to be 2,800 ft/d (6.9E-02 cm/s).

Table 1 | Hydraulic Conductivity Values

Well ID	Screen Interval Lithology	Average Hydraulic Conductivity (feet/day)
Golder Associates 2021		
MW-01R	Silty fine sand with trace refuse and silt	5.41
MW-02	Silty clay and poorly graded fine sand	0.19
MW-04	Well graded fine to medium sand and sandy silt	1.70
MW-05	Fine grained ash with refuse	18.76
MW-07	Sandy peat with shell fragments and silty sand	7.99
MW-08	Refuse and clayey sand	7.90
MW-17	Sand with some gravel and gravelly silt with trace organics	172.51*
MW-20	Peaty sand and peaty silt	242.25*
PZ-26	Very fine to medium sand with organics	8.34
MW-31	Mucky sand with refuse and sandy peat with refuse	0.36
HDR 2024		
MW-10	Fine to coarse sand with gravel	14.5
MW-12	Sand, clayey peat	14.0
MW-16	Fine sand, wood and organics	15.9
MW-32	Peaty silt, refuse	24.4
MW-36	Poorly graded sand and well graded gravel	23.7
MW-40	Poorly graded sand and silty gravel	1.38
PZ-15	“Mucky” sand	1.54
HDR 2025		
MW-01RB	Poorly graded sand	180.86
MW-41	Poorly graded sand, gravel with sand, clayey silt	0.055
MW-44	Sand with gravel and silty sand	3.68
MW-44B*	Fat clay	4.6E-06**
PZ-15B	Silty sand	2.18

* Wells MW-17 and MW-20 were retested by HDR in 2024, with the retest confirming the anomalously high result value.
** Well MW-44B was intentionally screened in a soft, silty clay unit to test the hydraulic properties of the clay.

2.4 Monitoring Well Network

The monitoring well network consists of the monitoring wells (MW-#) and piezometers (PZ-#) listed in **Table 1** and shown in **Figure 2**. Water levels are measured in the monitoring wells, and groundwater is sampled for water quality. The piezometers are monitored only for water levels. Note that if water quality monitoring is initiated at a piezometer, the designation of the monitoring point is changed (i.e., PZ-13 was recently re-designated as MW-13). The monitoring network for each impoundment is described below.

Units 1/2 Impoundment

Due to the size of the Units 1/2 Impoundment compared to the limits of Harbor Island, and radial groundwater flow direction, a traditional upgradient/downgradient groundwater monitoring system is not possible. Further detail explaining the locations and justification of each well location is provided in the Hydrogeologic Monitoring Plan (HMP - HDR, 2025). The following wells are utilized as the groundwater monitoring network:

- Background Wells: MW-27, MW-33, and MW-34
- Point of Compliance Wells (i.e. waste boundary wells): MW-06, MW-08, MW-18, MW-19, MW-20, MW-30, and MW-31
- Nature and Extent Wells: MW-07, MW-10, MW-16, MW-17, MW-28, MW-32, MW-36, MW-37, MW-42, and MW-43.

In November 2025, new monitoring wells MW-42 and MW-43 were installed as nature and extent wells for the Units 1/2 Impoundment. The wells were sampled for the first time in December 2025, for the second time in the first quarter of 2026 (February), and for the third time in April 2026.

Unit 3A/B Impoundments

The monitoring well network justification for the Unit 3A/B Impoundments is provided in the Hydrologic Monitoring Plan (HDR, 2025). The well network is as follows:

- Background Wells: MW-27, MW-33, and MW-34
- Point of Compliance Wells (i.e. waste boundary wells): MW-02, MW-03, MW-04, MW-04R, MW-11, and MW-12
- Nature and Extent Wells: MW-01R, MW-01RB, MW-09, MW-10, MW-13, MW-38, MW-39, and MW-41.

In November 2025, monitoring well MW-41 was installed as a nature and extent well for the Unit 3A/B Impoundments. Monitoring well MW-09B was installed to evaluate vertical gradients near well MW-09; and monitoring wells MW-04R and MW-01RB were installed as potential replacement wells for MW-04 and MW-01R due to coal ash in the screened interval of the two existing monitoring wells. These four wells were sampled for the first time in December 2025, the second time in February 2026, and for the third time in April 2026.

Water Level Wells

The following monitoring wells and piezometers are monitored for water level only and are not sampled: MW-05, MW-09B, PZ-14, PZ-15, PZ-15B, PZ-21, PZ-22, PZ-23, PZ-24, PZ-25, PZ-26, PZ-29, MW-35, MW-40, MW-44, and MW-44B as shown on **Figure 2**. Piezometers PZ-21, PZ-

22, and PZ-29 were installed within the Internal Wetland and are inaccessible at times and therefore are monitored less frequently.

In November 2025, new wells MW-44, MW-44B, and piezometer PZ-15B were installed to evaluate non-CCR impacts and to monitor water levels at the groundwater-surface water interface near the Internal Wetland and the South Channel.

Transducers have been installed in the monitoring wells, stilling wells, and staff gauges that are marked on **Figure 5** with (T) next to the location ID. The transducers measure and record groundwater elevations at one-hour intervals and are described in further detail in Section 4.1.

No wells were installed, repaired, or abandoned in the second quarter of 2026.

Figure 5 | Transducer Deployment Map

3.0 Monitoring

3.1 Groundwater Monitoring

Table 1 provides well identification numbers, well locations, the dates samples were collected during Quarter 2 2026 (April), and whether a sample was required by the CCR Rule for background sampling, detection monitoring or assessment monitoring programs. Any deviation in sample collection from the Hydrogeologic Monitoring Plan (HDR, 2025) is outlined in **Section 3.3**. Sampling for the second quarter began on April 20, 2026. Water levels across the network were measured on the same day.

Table 2 | Dates of Groundwater Monitoring in Second Quarter 2026

Monitoring Well I.D.	Date Sampled	Monitoring Purpose
Background Monitoring Wells		
MW-27	4/20/2026	Assessment Monitoring
MW-33	4/20/2026	Assessment Monitoring
MW-34	4/20/2026	Assessment Monitoring
Units 1/2 Compliance Monitoring Wells		
MW-06	4/20/2026	Assessment Monitoring
MW-08	4/20/2026	Assessment Monitoring
MW-18	4/20/2026	Assessment Monitoring
MW-19	4/20/2026	Assessment Monitoring
MW-20	4/20/2026	Assessment Monitoring
MW-30	4/20/2026	Assessment Monitoring
MW-31	4/20/2026	Assessment Monitoring
Unit 3A/B Compliance Monitoring Wells		
MW-02	4/20/2026	Assessment Monitoring
MW-03	4/20/2026	Assessment Monitoring
MW-04	4/20/2026	Assessment Monitoring
MW-04R	4/20/2026	Assessment Monitoring
MW-11	4/20/2026	Assessment Monitoring
MW-12	4/20/2026	Assessment Monitoring
Nature and Extent Wells		
MW-01R	4/20/2026	Assessment Monitoring
MW-01RB	4/20/2026	Assessment Monitoring
MW-07	4/20/2026	Assessment Monitoring
MW-09	4/20/2026	Assessment Monitoring
MW-10	4/20/2026	Assessment Monitoring
MW-13	4/20/2026	Assessment Monitoring
MW-16	4/20/2026	Assessment Monitoring
MW-17	4/20/2026	Assessment Monitoring
MW-28	4/20/2026	Assessment Monitoring
MW-32	4/20/2026	Assessment Monitoring
MW-36	4/20/2026	Assessment Monitoring

Table 2 | Dates of Groundwater Monitoring in Second Quarter 2026		
Monitoring Well I.D.	Date Sampled	Monitoring Purpose
Background Monitoring Wells		
MW-37	4/20/2026	Assessment Monitoring
MW-38	4/20/2026	Assessment Monitoring
MW-39	4/20/2026	Assessment Monitoring
Water Level Only Wells		
MW-05	4/20/2026	Water Level Only
MW-09B	4/20/2026	Water Level Only
PZ-14	4/20/2026	Water Level Only
PZ-15	4/20/2026	Water Level Only
PZ-15B	4/20/2026	Water Level Only
PZ-23	4/20/2026	Water Level Only
PZ-24	4/20/2026	Water Level Only
PZ-25	4/20/2026	Water Level Only
PZ-26	4/20/2026	Water Level Only
PZ-29	4/20/2026	Water Level Only
MW-35	4/20/2026	Water Level Only
MW-40	4/20/2026	Water Level Only

3.2 Surface Water Monitoring

Surface water monitoring coincides with the groundwater sampling. Stilling wells STW-1SW, STW-2, STW-3 and staff gauges STW-1SG, SG-01, SG-03, and SG-06 are monitored for water levels only. Staff gauges SG-02, SG-04R, SG-05, SG-07 are monitored for water levels and surface water quality (**Figure 2**). Surface water monitoring dates for the second quarter 2026 are shown in **Table 3**. Deviations from the work plan are outlined in **Section 3.3**.

In the Northern Wetland, stilling well STW-1 was replaced in November 2025 with a new stilling well (STW-1SW) to monitor surface water, and paired with a new drive point well (STW-1DP) to monitor shallow groundwater levels at the periphery of the wetland, particularly when the wetland surface is dry. Both the stilling well (SW) and drive point (DP) are accessible along the northern shoreline of Harbor Island (**Figure 2**), and both were surveyed in March 2026. The STW-1SG staff gauge (previously designated STW-1) remains located approximately 40 yards offshore. Stilling well STW-1SG was dry during the second quarter monitoring event, and remained generally inaccessible across the Northern Wetland mud flat in the second quarter 2026.

Table 3 | Dates of Surface Water Monitoring in Second Quarter 2026	
Well ID	Monitoring Date
SG-01	4/20/2026[1]
SG-02	4/20/2026
SG-03	4/20/2026
SG-04R	4/20/2026
SG-05	4/20/2026[1]
SG-06	4/20/2026[1]
SG-07	4/20/2026
STW-1SW	4/20/2026[1]
STW-1DP	4/20/2026
STW-1SG	4/20/2026[1]
STW-2	4/20/2026
STW-3	4/20/2026

1 – Monitoring location was dry, no surface water level was measured.

3.3 Water Level and Sample Collection

Monitoring wells were purged with a peristaltic pump until water quality parameters stabilized. Field measurements of pH, turbidity, conductivity, dissolved oxygen, temperature, and oxidation reduction potential were recorded on a field data form, which is maintained as part of the field records and provided in **Appendix B**. After water quality parameters stabilized, water samples were collected and tested for the analytes listed in **Table 4**. For quality control, one field duplicate sample was collected for each CCR unit per sampling event (two duplicate samples total per event; collected at monitoring wells MW-11 and MW-33). The following deviations from the Hydrogeologic Monitoring Plan for CCR Compliance were noted during the second quarter of 2026 sampling event:

- Water levels were not measured in April 2026 at piezometers PZ-21 and PZ-22 due to inaccessibility (deep wetland muck).
- In April 2026, water levels were not measured at staff gauges SG-01, SG-05, SG-06, STW-1SG, and at stilling well STW-1SW due to no water at the monitoring points during low surface water conditions. However, the surface water level was measured at the SG-05 stilling well used to formerly house the SG-05 transducer.
- The PVC casing at stilling well STW-2 was replaced with steel casing in the fourth quarter 2025, and re-surveyed in March 2026. New transducers were installed in March 2026 at stilling wells STW-2 and STW-3. The PVC casing at stilling well STW-3 is planned to be replaced with a steel casing in the third quarter 2026.

3.4 Analytical Testing

Groundwater samples collected from the monitoring wells listed in **Table 1** were analyzed for the constituents listed in **Table 4**.

Table 4 | Constituents of Interest	
Constituents for Assessment Monitoring	
Antimony	Mercury
Arsenic	Molybdenum
Barium	Nickel
Beryllium	Radium-226
Boron	Radium-226/228
Cadmium	Radium-228
Calcium	Selenium
Chloride	Silver
Chromium	Sulfate
Cobalt	Thallium
Copper	Total Dissolved Solids (TDS)
Fluoride	Vanadium
Iron	Zinc
Lead	Additional Parameters
Lithium	Total Suspended Solids (TSS)

3.5 Data Validation and Management

Data validation and data management tasks were performed pursuant to the Hydrogeologic Monitoring Plan. Data validation was performed for sampling dates provided in **Table 2**. Data validation was conducted to eliminate any data that did not meet validation criteria and to designate a data qualifier for any data quality limitation discovered.

Samples and quality control (QC) data for the reporting period were reviewed and evaluated, and no samples were rejected. Most QC analyses were within reportable limits; however, when QC was outside control limits, samples were reported as estimated. Data analyses required minimal qualifications, and the data were usable, even when qualified. Data validation reports are contained in **Appendix C**.

4.0 Monitoring Results

4.1 Water Levels and Groundwater Flow Direction

A potentiometric contour map was developed for the second quarter 2026 sampling event using the data provided in **Table 5**. The map displays the groundwater elevations and inferred potentiometric contours, and is provided in **Appendix C**. A hydrograph illustrating groundwater levels in monitoring wells near the Units 1/2 Impoundment for the November 2022 through April 2026 monitoring period is shown in **Figure 6.** Groundwater around the perimeter of the Units 1/2 Impoundment ranged from approximately 581.30 (MW-31) to 582.55 (MW-06) feet above mean sea level (ft AMSL) during this period. A hydrograph illustrating groundwater levels in perimeter wells surrounding the Unit 3A/B Impoundments (**Figure 7)** indicates groundwater elevation beneath the impoundment ranged from 579.90

(MW-09) to 584.4 (MW-12) ft ASML during the November 2022 through April 2026 monitoring period.

Groundwater beneath the former CCR impoundments is inferred to be generally radial, flowing toward the Grand River, the North Channel, and the Internal Wetland. Potentiometric contours created from the groundwater elevations in **Table 5** show north and northwestern flow beneath the Unit 3A/B Impoundments toward the Grand River, consistent with previous observations. Flow beneath the Units 1/2 Impoundment is generally eastward toward the Internal Wetland, with the Internal Wetland having been consistently shown to be a hydraulic sink for Harbor Island. Groundwater flow near the North Channel outlet near SG-02 and MW-31 is inferred to be towards the north.

The groundwater flow direction observed at background wells MW-27, MW-33, and MW-34 is consistent with previous observations. Because groundwater typically converges on the Internal Wetland from both the west side, where the impoundments are located, and from the east side, where the background wells are located, it can be inferred that groundwater under the CCR impoundments cannot flow to the background monitoring well locations east of the Internal Wetland.

Table 5 | Groundwater and Surface Water Elevations in Second Quarter 2026

Well ID	Groundwater Elevation (04/20/2026)
MW-01R	583.20
MW-01RB	579.95
MW-02	580.16
MW-03	579.90
MW-04	580.79
MW-04R	580.04
MW-05	582.48
MW-06	582.55
MW-07	579.90
MW-08	579.87
MW-09	580.10
MW-09B	579.60
MW-10	580.13
MW-11	582.66
MW-12	584.40
MW-13	579.98
PZ-14	581.56
PZ-15	580.30
PZ-15B	579.77
MW-16	579.87
MW-17	581.49
MW-18	581.35
MW-19	580.25

Table 5 | Groundwater and Surface Water Elevations in Second Quarter 2026	
Well ID	Groundwater Elevation (04/20/2026)
MW-20	579.94
PZ-21	Inaccessible
PZ-22	Inaccessible
PZ-23	580.40
PZ-24	581.03
PZ-25	580.03
PZ-26	581.41
MW-27	581.03
MW-28	579.96
PZ-29	580.11
MW-30	580.93
MW-31	581.30
MW-32	581.02
MW-33	583.2*
MW-34	580.95
MW-35	584.41
MW-36	582.49
MW-37	581.90
MW-38	582.10
MW-39	581.85
MW-40	581.83
MW-41	579.53
MW-42	580.09
MW-43	580.35
MW-44	580.23
MW-44B	579.27
PW-1	580.16
SG-01	DRY
SG-02	581.94
SG-03	581.92
SG-04R	582.34
SG-05	579.52**
SG-06	DRY
SG-07	579.43
STW-1SG	DRY
STW-1SW	DRY
STW-1DP	579.25
STW-2	579.61
STW-3	579.43

* - Estimated – water above top of casing
** - Water level was measured at the stilling well formerly housing the datalogging transducer

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Table 6 | Groundwater Velocity Calculations

Well Pair	Area of Harbor Island	Distance (ft)	Porosity[1]	Hydraulic Conductivity (ft/day)	Groundwater Elevation (ft/ASML)	Hydraulic Gradient	Groundwater Velocity (ft/day)
PZ-25	Eastern	413	0.3	8.3422	580.03	0.0024	0.066
PZ-26					581.41		
PZ-25		400	0.3	8.3422	580.03	0.0006	0.018
PZ-23					580.40		
MW-01R	Western	247	0.3	6.2333	583.20	0.0057	0.118
MW-03					579.90		
MW-01R		274	0.3	6.2333	583.20	0.0041	0.086
MW-04					580.79		
MW-01R		226	0.3	6.2333	583.20	0.0012	0.026
MW-05					582.48		
MW-01R		262	0.3	6.2333	583.20	0.0053	0.110
MW-10					580.13		

1. Porosity value estimated using reference values for poorly sorted fine to medium sand (Freeze-Cherry, 1979).
2. Average hydraulic conductivity value from Golder (2022) on PZ-26.
3. Calculated by averaging hydraulic conductivity values from wells MW-01R, MW-02, MW-04, and MW-05 (Golder, 2022).

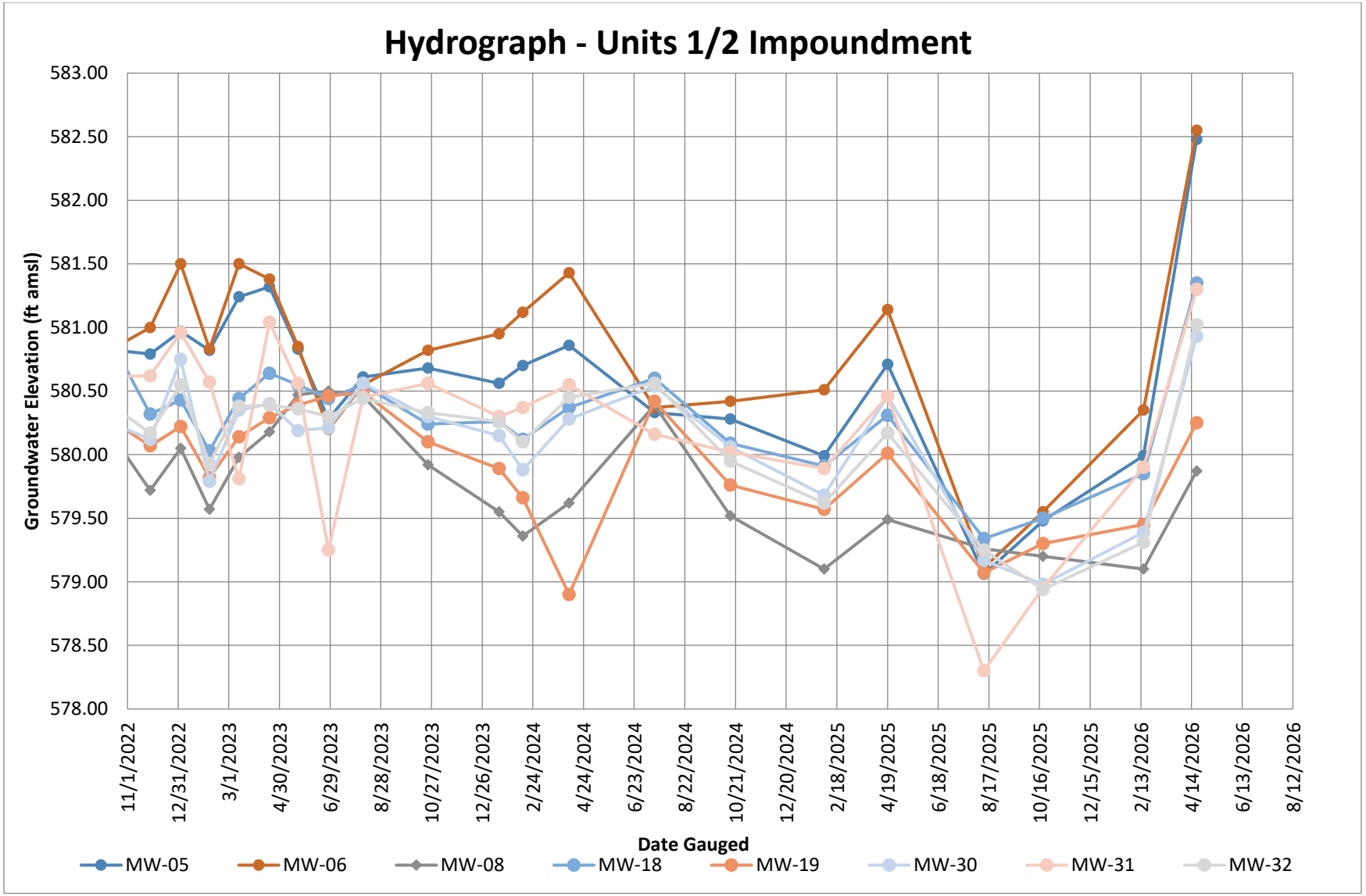

Figure 6 | Hydrograph of Wells Near Units 1/2 Impoundment

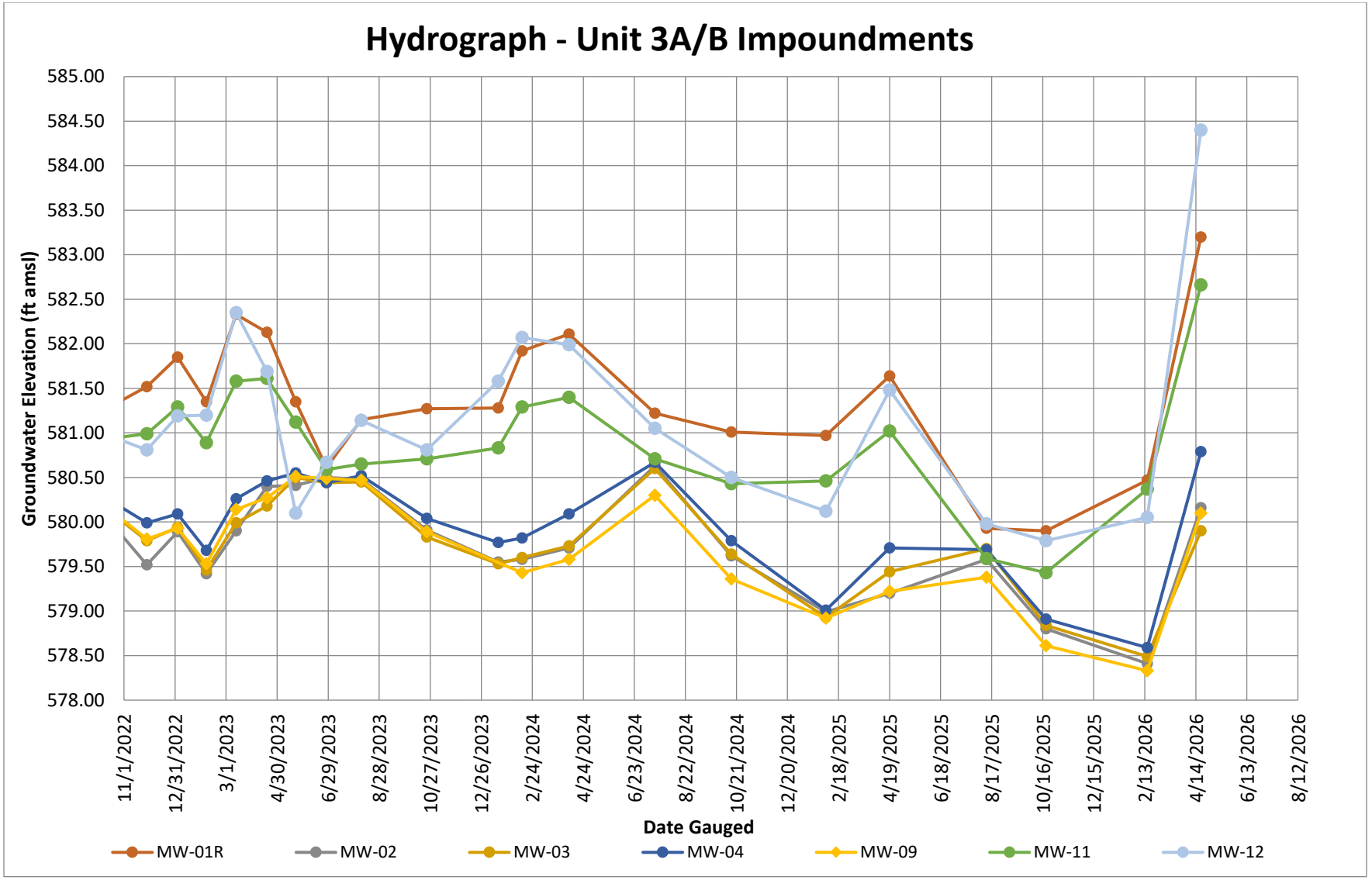

Figure 7 | Hydrograph of Wells and Piezometers Near Unit 3A/B Impoundments

Pressure transducers have been installed at the locations shown in **Figure 5**. Transducer data has been collected from December 21, 2023, through the most recent download on April 20, 2026. Several of the original 17 transducers have experienced internal failures or external damage, resulting in the following modifications to the transducer network:

- The staff gauge SG-05 cable was severed by wildlife and has not been replaced.
- The stilling well STW-2 cable and PVC stilling well were severed by ice flows in the Grand River. A new transducer was installed in a new steel STW-2 stilling well in March 2026.
- The stilling well STW-3 transducer experienced an internal memory failure, and was replaced in March 2026.
- The monitoring well MW-09 transducer had an internal sensor error and recorded anomalous data. The transducer was replaced in March 2026.
- The staff gauge SG-07 transducer experienced an internal sensor error and recorded anomalous data. The transducer was replaced in April 2026.

The stilling well STW-1 monitoring point was reconfigured in November 2025 as stilling well STW-1SW, and shallow groundwater drive point STW-1DP. The STW-1 transducer was moved to drive point STW-1DP in November 2025.

Trends observed from the limited dataset are as follows:

- Groundwater at monitoring well MW-31 is generally lower than the surface water elevation at staff gauge SG-02. A transducer reading of 579.62 ft amsl is approximately the elevation at which the staff gauge reads 0.95 ft and the north pond is effectively dry. The impoundment pond monitored by SG-02 was effectively dry from June to December 2025, and the groundwater elevation at MW-31 has been as much as approximately 1.5 feet below the wetland sediment surface. A hydrograph of the measurements is shown on **Figure 8**.
- Following periods of significant precipitation, the groundwater elevation at monitoring well MW-05 is higher than the surface water elevation of the south pond at staff gauge SG-04R. However, for the majority of the time, particularly since May 2025, the groundwater elevation at MW-05 has been below the surface of south pond, indicating that precipitation falling on, or collecting on the pond infiltrates to groundwater. Since March 2026, the pond stage at SG-04R and groundwater at well MW-05 has rapidly risen simultaneously. A transducer reading of 580.4 ft amsl is the elevation where the staff gauge reads 0.65 and the pond is effectively dry. A hydrograph of the measurements is shown on **Figure 9.**
- Groundwater at well MW-16, located on the south side of the Island near the South Channel, is higher than surface water at South Channel stilling well STW-2 through the fall, winter and spring, indicating groundwater flow is toward the South Channel for the majority of the year. Due to the loss of the STW-2 transducer in October 2024, the Lake Michigan stage data has been used as a proxy for the Grand River[1] stage. Through the

[1] National Oceanic and Atmospheric Administration (NOAA) Tides and Currents website, station 9087031 (Holland, MI) - Water Levels - NOAA Tides & Currents

summer of 2024, the MW-16 groundwater elevation was approximately equal to the South Channel stage at STW-2, meaning that there is limited groundwater flow from the Island to the river. After October 2024, when the STW-2 transducer was lost, the MW-16 water levels parallel the Lake Michigan record. A new transducer was installed in STW-2 in March 2026. A hydrograph of the measurements is shown on **Figure 10**.

- The surface water elevation at SG-07 is generally lower than groundwater at PZ-24, indicating groundwater discharge from the east side of the Island toward the Internal Wetland. However, in the summer months, the water level at PZ-24 may decline below the level of the Internal Wetland and the Grand River, due to high rates of evapotranspiration. Note that a new transducer was installed in SG-07 in March 2026. A hydrograph of the measurements is shown on **Figure 11**.
- On the western side of the Island, transducer measurements at stilling well STW-3, monitoring well MW-13, and piezometer PZ-14 indicate that groundwater at PZ-14, which is separated from the Grand River by a sheet-pile wall, may flow north toward MW-13 before discharging to the Grand River around the north end of the wall. A hydrograph of the measurements is shown on **Figure 12.**
- A comparison of monitoring well MW-08 and staff gauge SG-07 evaluates groundwater-surface water interactions on the north side of the Internal Wetland. Well MW-08 was typically higher in elevation generally between December 2023 and May 2024, indicating groundwater discharge to the Internal Wetland. A hydrograph of the measurements is shown on **Figure 13**.

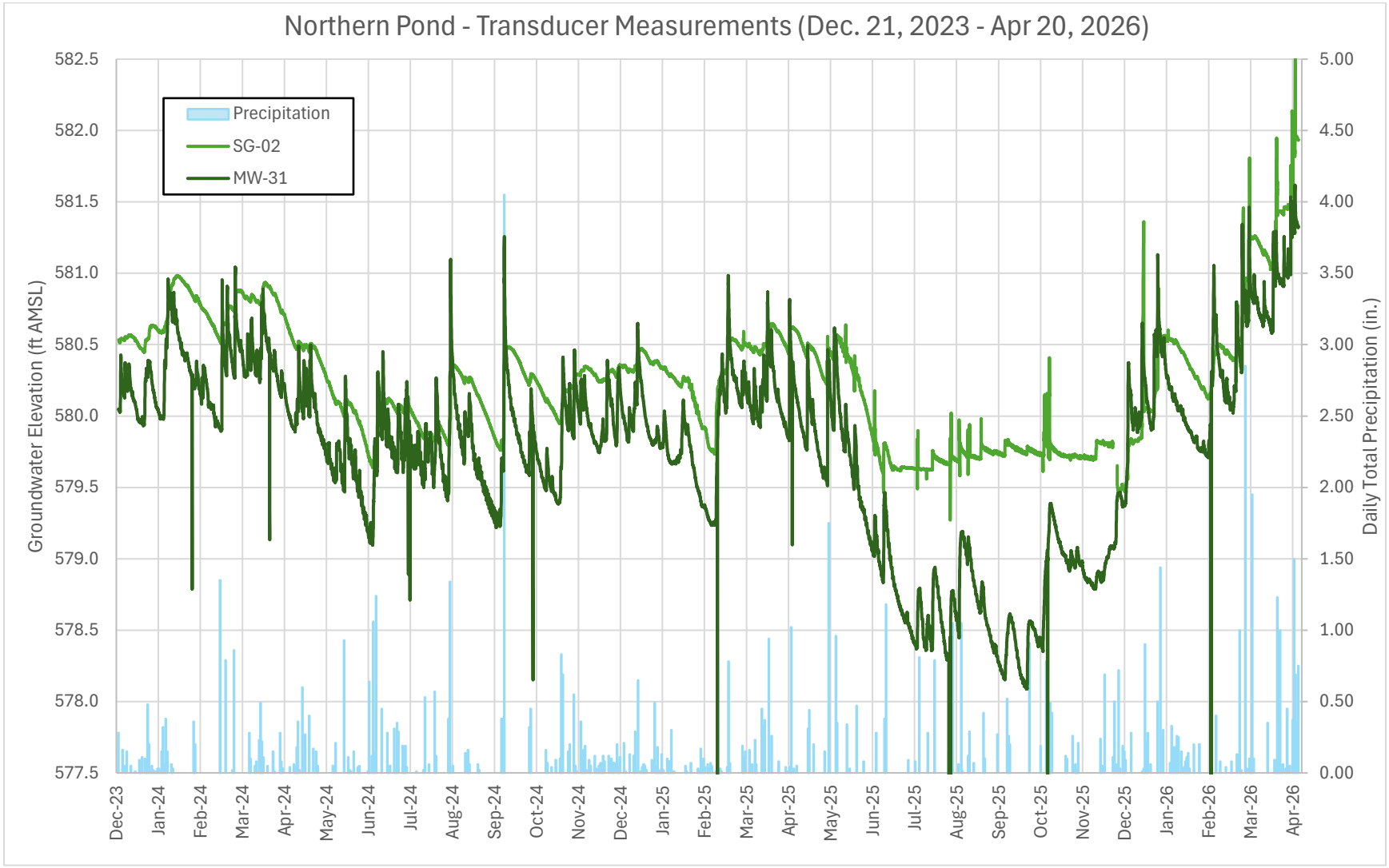

Figure 8 | Transducer Measurement Graph: Staff Gauge SG-02 and Monitoring Well MW-31

When the SG-02 transducer reads 579.62 ft amsl, the staff gauge reads 0.95 and the pond is effectively dry.

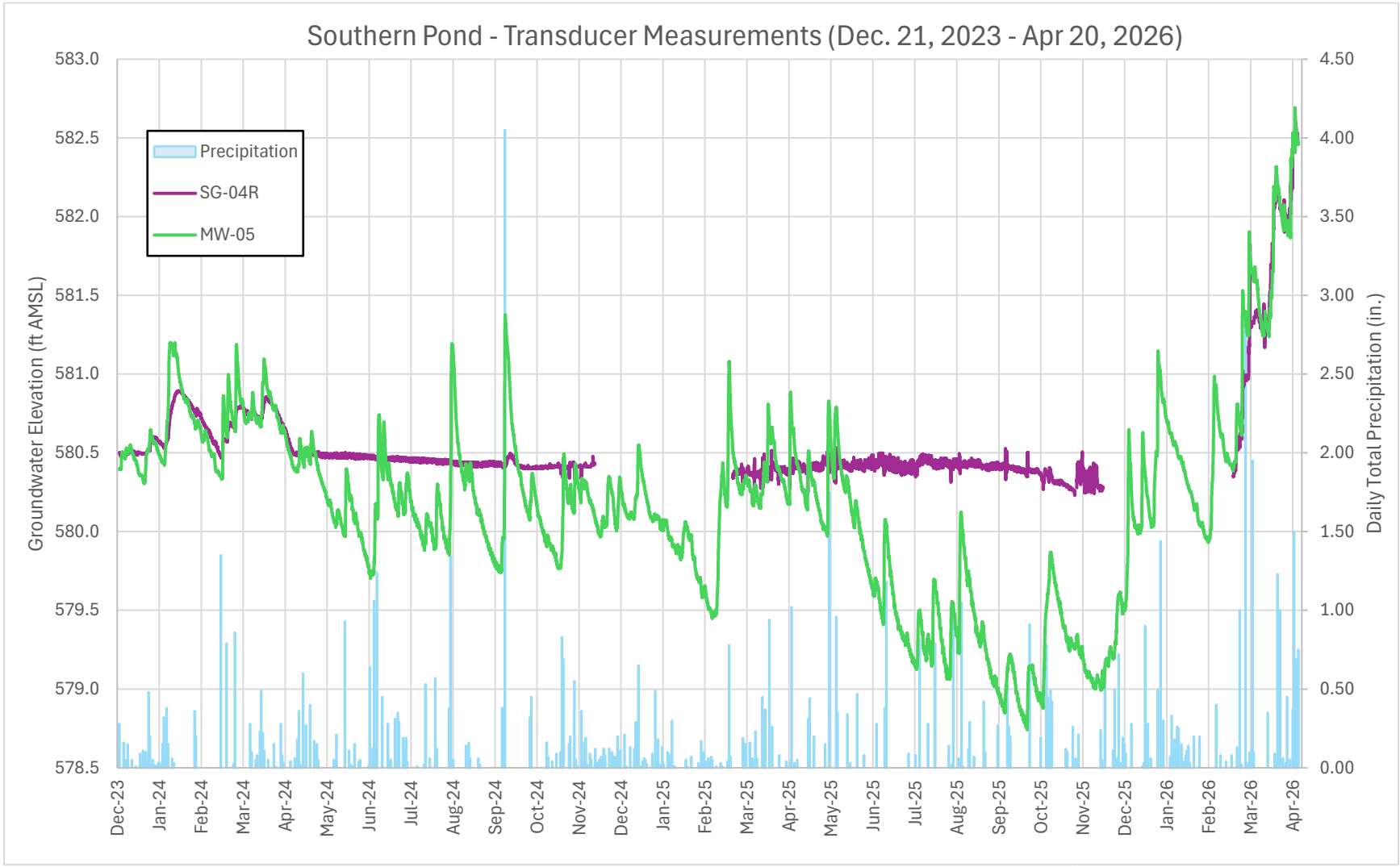

Figure 9 | Transducer Measurement Hydrograph: Staff Gauge SG-04R and Monitoring Well MW-05

When the SG-04R transducer reads 580.4 ft amsl, that is the elevation where the staff gauge reads 0.65 or effectively dry.

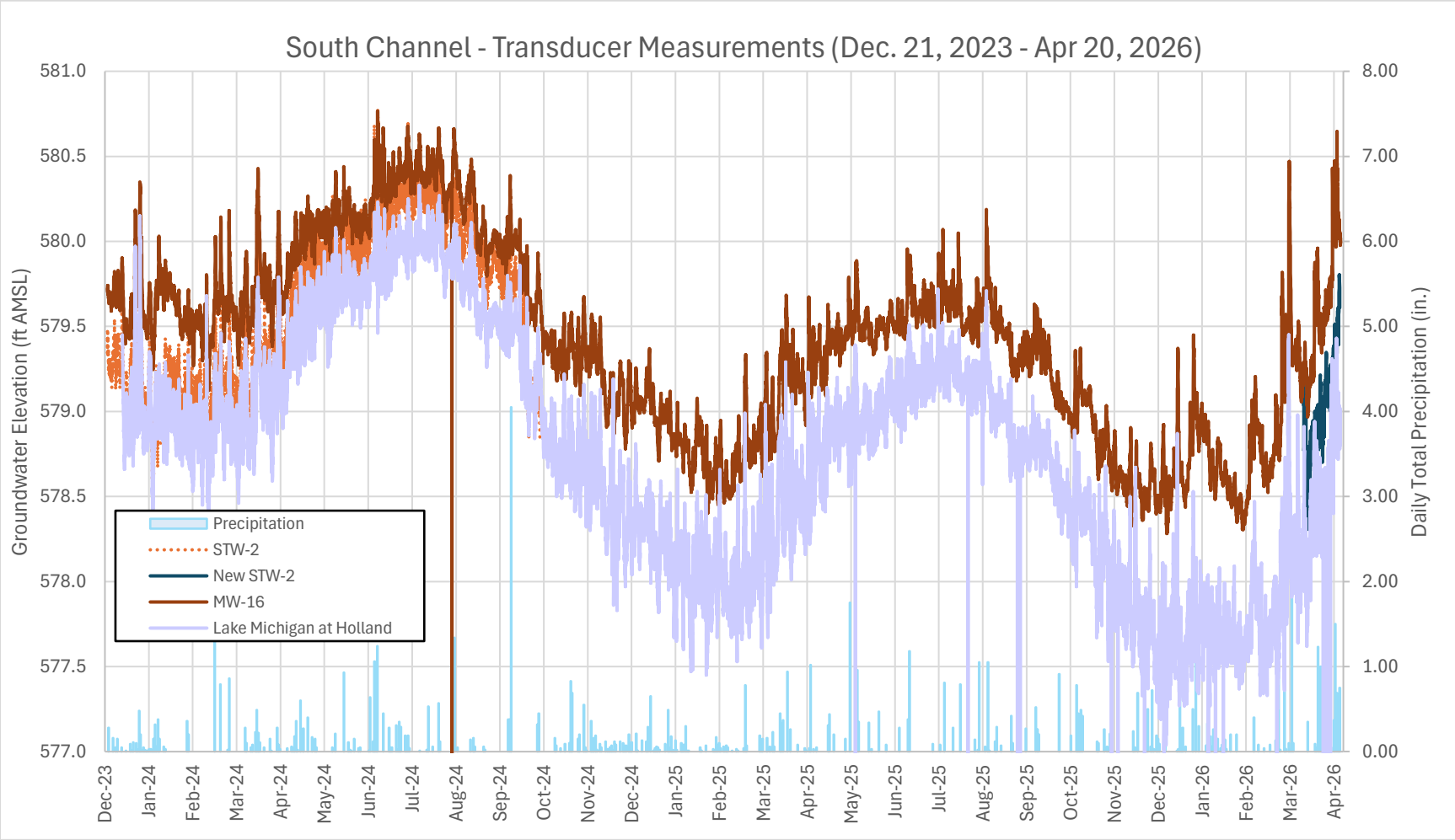

Figure 10 | Transducer Measurement Hydrograph: Stilling Well STW-2, Monitoring Well MW-16, and Lake Michigan at Holland (NOAA)

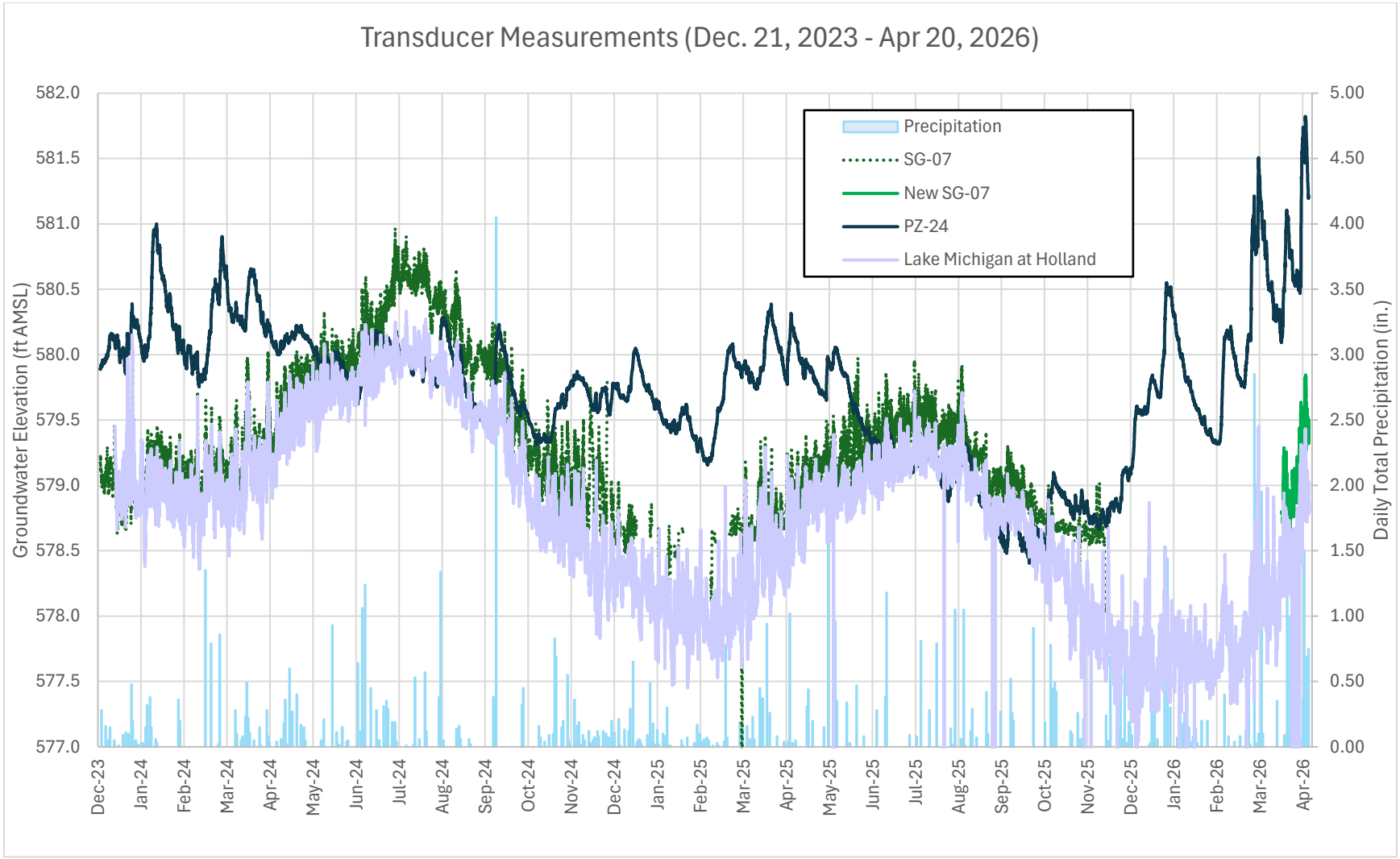

Figure 11 | Transducer Measurement Hydrograph: Staff Gauge SG-07, Piezometer PZ-24, and Lake Michigan at Holland (NOAA)

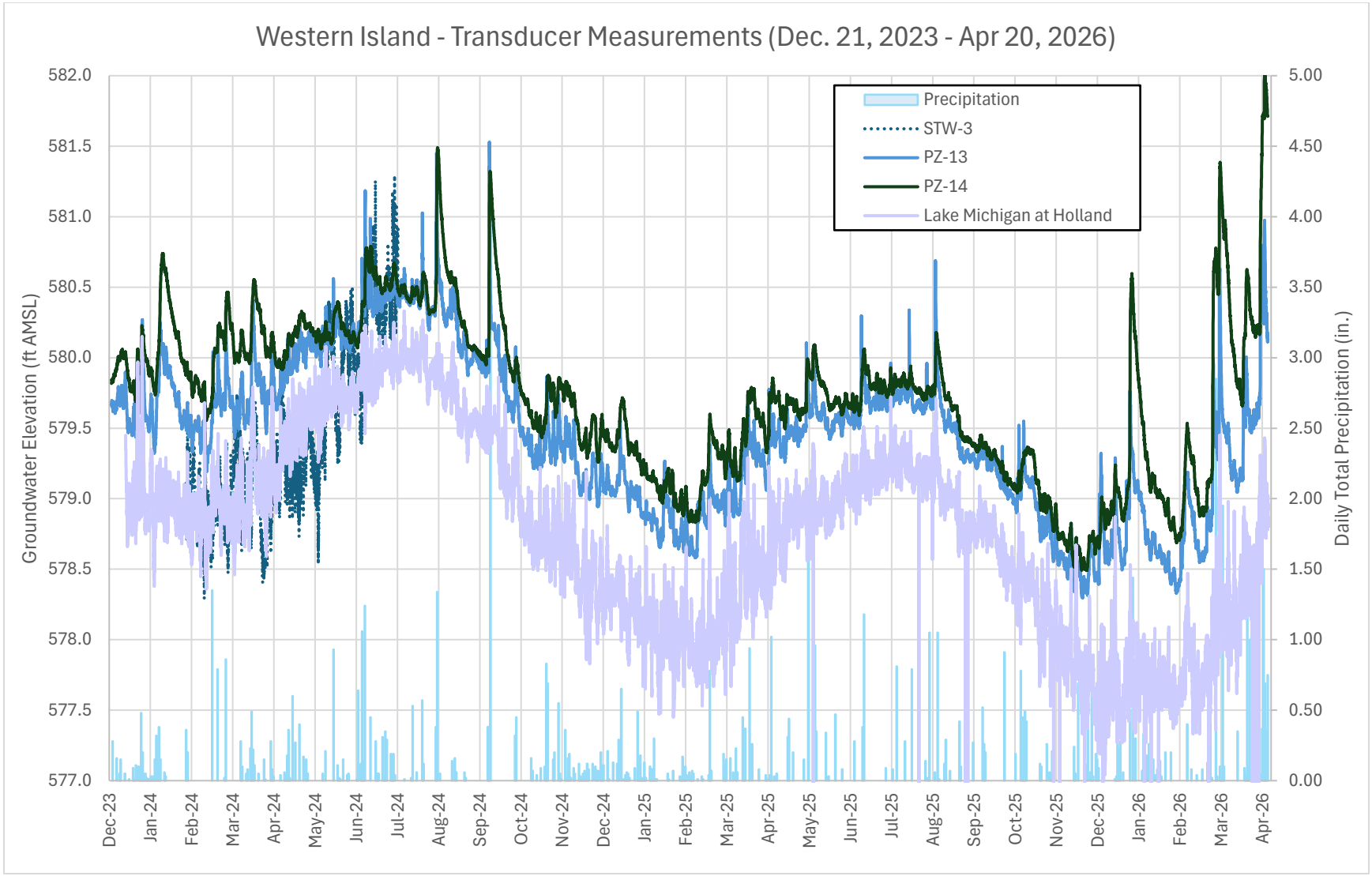

Figure 12 | Transducer Measurement Hydrograph: Stilling Well STW-3, Monitoring Well MW-13 Piezometer PZ-14, and Lake Michigan at Holland (NOAA)

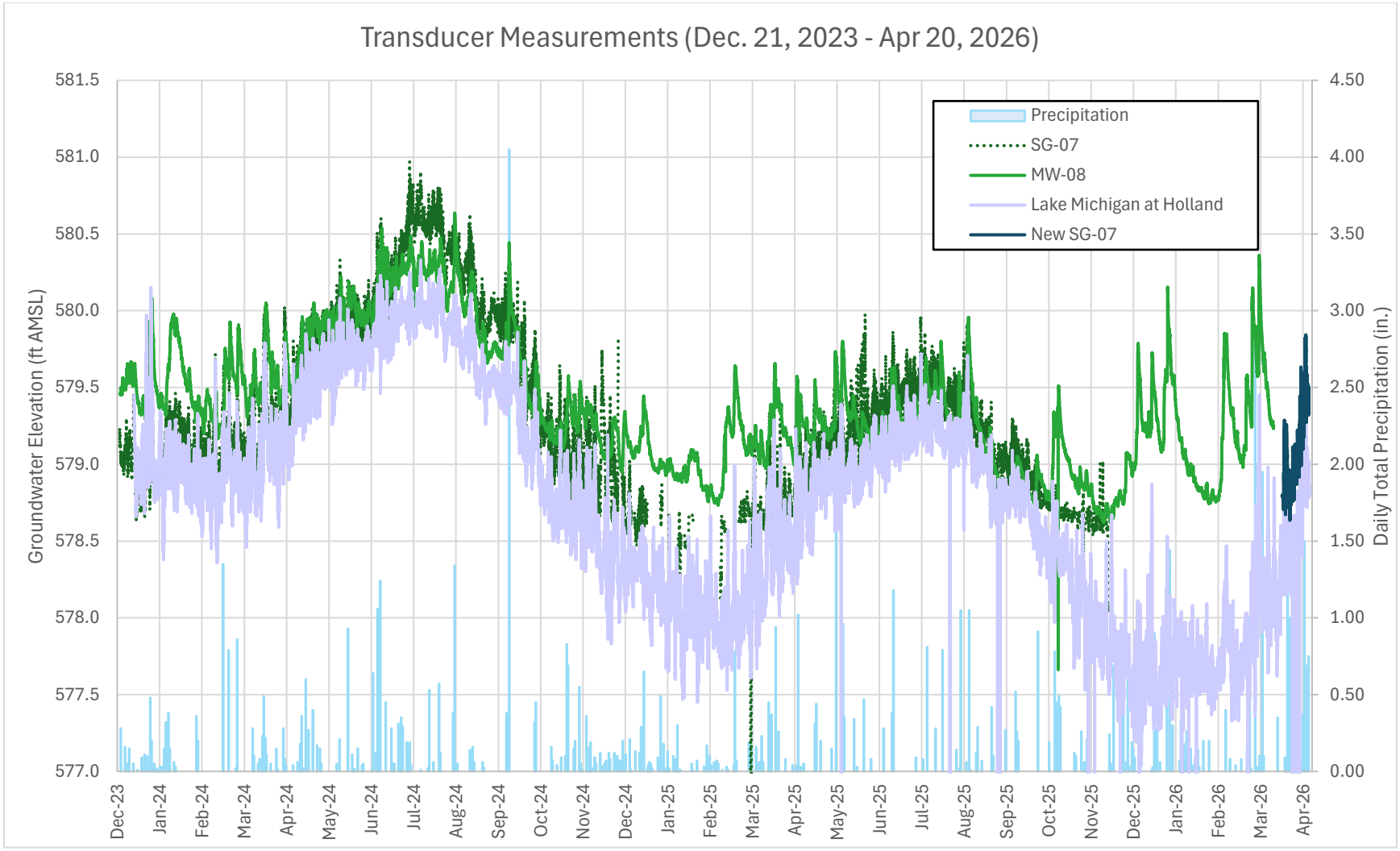

Figure 13 | Transducer Measurement Hydrograph: Staff Gauge SG-07, Monitoring Well MW-08, and Lake Michigan at Holland (NOAA)

4.2 Water Quality

In April 2026, an assessment monitoring event was conducted and the monitoring network provided in **Table 2** was sampled for the assessment monitoring constituents in **Table 4**. The water quality data collected to date is summarized in **Appendix D** and laboratory reports are provided as **Appendix E**.

4.2.1 Groundwater Protection Standards (GPS)

As required for assessment monitoring in Michigan Rule R 299.4441(9), the owner must establish GPS for each hazardous substance detected in the groundwater. The background value (95% upper tolerance limit [UTL]), maximum contaminant level (MCLs), applicable state cleanup criteria, and Site GPS for both CCR units are provided in **Table 7** from the HMP (HDR, 2025).

4.2.2 Identification of Groundwater Protection Standard (GPS) Exceedances

The April 2026 sampling data from compliance wells was compared to the GPS values provided in **Table 7**, and several COIs were found to exceed GPS at both CCR units. To determine if an exceedance of a GPS value was statistically significant, the 95% lower confidence limit (95LCL) was calculated for each of the downgradient wells. The statistical output files are in **Appendix F**. Analytical data tables are contained in **Appendix D**.

For the last five monitoring events (April 2025 through April 2026), mercury has been analyzed by the low-level method (EPA Method 1631E), with a reporting limit of 0.5 ng/L; previous samples were analyzed by EPA Method 7470A, with a reporting limit of 160 ng/L. Due to this change in analytical methods, mercury LCLs will be calculated from results generated using the low-level method after the eighth EPA Method 1631E monitoring event (first quarter 2027) utilizing the lower quantification levels.

Units 1/2 Impoundment

Concentrations that exceeded GPS at SSLs are provided in **Table 8** for the Units 1/2 Impoundment. The wells with SSLs over GPS following the April 2026 sampling event are consistent with previous well and constituent observations.

Table 7 | Background Values and State Groundwater Protection Standards for both Units 1/2 Impoundment and Unit 3A/B Impoundments

Parameter**	Site-Specific Background Level (UTL) (mg/L)	MCL (mg/L)	State Non-Res. Drinking Water Cleanup Criteria for Groundwater (mg/L)*	GSI (mg/L)*	GPS (mg/L)
Antimony	0.0012	0.0060	0.0060	0.13	0.0060
Arsenic	0.0040	0.010	0.010	0.010	0.010
Barium	0.58	2.0	2.0	1.3[1]	1.3
Beryllium	0.000059	0.0040	0.0040	0.036[1]	0.0040
Boron	4.0	NV	0.50	7.20	4.0
Cadmium	0.00015	0.0050	0.0050	0.0025[1]	0.0025[1]
Calcium	250	NV	N/A	N/A	N/A
Chloride	120	NV	250	50	120

Table 7 | Background Values and State Groundwater Protection Standards for both Units 1/2 Impoundment and Unit 3A/B Impoundments					
Parameter**	Site-Specific Background Level (UTL) (mg/L)	MCL (mg/L)	State Non-Res. Drinking Water Cleanup Criteria for Groundwater (mg/L)*	GSI (mg/L)*	GPS (mg/L)
Chromium	0.042	0.10	0.10	0.12[1]	0.10
Cobalt	0.0021	0.0060	0.10	0.10	0.0060
Copper	0.020	1.30	1.0	0.021[1]	0.021[1]
Fluoride	0.45	4.0	2.0	NV	2.0
Iron	83	0.30	0.30	NV	83
Lead	0.0016	0.015	0.0040	0.014[1]	0.0040
Lithium	0.10	0.040	0.35	0.44	0.10
Mercury	0.00016	0.0020	0.0020	0.0000013	0.0000013
Molybdenum	0.0093	0.10	0.210	3.2	0.10
Nickel	0.023	NV	0.10	0.12[1]	0.10
Radium 226 and 228 combined	2.6	5.0	NV	NV	5.0
Selenium	0.00089	0.050	0.050	0.0050	0.0050
Silver	0.00011	0.10	0.098	0.00020	0.00020
Sulfate	100	250	250	NV	250
Thallium	0.000075	0.0020	0.0020	0.0037	0.0020
Total Dissolved Solids	950	500	500	500	950
Vanadium	0.00093	NV	0.0062	0.027	0.0062
Zinc	0.038	5.00	5.00	0.27[1]	0.27[1]

*Cleanup Criteria Requirements for Response Activity (Formerly the Part 201 Generic Cleanup Criteria and Screening Levels) found in R 299.44 Generic groundwater cleanup criteria.
**Metals data is analyzed and reported as total metals.
NV=no value
[1]Per Footnote G of Table 1 Cleanup Criteria Requirements for Response Activity (Formerly the Part 201 Generic Cleanup Criteria and Screening Levels) of the Groundwater Surface Water (GSI) criteria list, values noted are calculated based on the hardness (expressed as CaCO3) of the receiving waters. Surface water sample from the Grand River (SG-01) had a hardness of 270 mg/L that was used in the calculation of specific GSI values. The Grand River discharges into Lake Michigan, thus the GSI Criteria for Surface Water Protected for Drinking Water Use, is provided above.

Unit 3A/B Impoundments

Concentrations that exceed GPS at SSLs are provided in **Table 9** for the Unit 3A/B Impoundments. The wells with SSLs over GPS following the April 2026 sampling event are consistent with previous well and constituent observations.

Table 8 | April 2026 LCLs that Exceed GPS for the Units 1/2 Impoundment				
Well	Constituent*	Unit	95% LCL	State GPS
MW-06	Barium	mg/L	1.4	1.3
	Boron	mg/L	8.8	4.0
	Lithium	mg/L	0.16	0.10
	Total Dissolved Solids	mg/L	1200	950
MW-07	Boron	mg/L	11	4.0
MW-08	Arsenic	mg/L	0.033	0.010
	Boron	mg/L	5.4	4.0
MW-10	Boron	mg/L	16	4.0
	Chloride	mg/L	250	120
	Fluoride	mg/L	4.7	2.0
	Lithium	mg/L	0.84	0.10
	Sulfate (as SO4)	mg/L	400	250
	Total Dissolved Solids	mg/L	1900	950
MW-18	Arsenic	mg/L	0.023	0.010
	Fluoride	mg/L	3.6	2.0
	Sulfate (as SO4)	mg/L	660	250
	Total Dissolved Solids	mg/L	1200	950
MW-19	Sulfate (as SO4)	mg/L	890	250
	Total Dissolved Solids	mg/L	1700	950
MW-30	Lithium	mg/L	0.12	0.10
	Sulfate (as SO4)	mg/L	820	250
	Total Dissolved Solids	mg/L	2200	950
MW-31	Boron	mg/L	4.6	4.0
	Fluoride	mg/L	4.5	2.0
MW-32	Lithium	mg/L	0.12	0.10
MW-36	Arsenic	mg/L	0.011	0.01
	Lead	Mg/L	0.0096	0.004

Table 9 | April 2026 LCLs that Exceed GPS for Unit 3A/B Impoundments				
Well	Constituent*	Unit	95% LCL	State GPS
MW-01R	Boron	mg/L	94	4.0
	Fluoride	mg/L	11	2.0
	Lithium	mg/L	2.0	0.10
	Sulfate (as SO4)	mg/L	310	250
	Total Dissolved Solids	mg/L	2300	950
MW-02	Boron	mg/L	97	4.0
	Chloride	mg/L	140	120
	Fluoride	mg/L	9.4	2.0
	Lithium	mg/L	1.3	0.10
	Total Dissolved Solids	mg/L	1900	950
MW-03	Chloride	mg/L	130	120
	Total Dissolved Solids	mg/L	1700	950
MW-04	Sulfate (as SO4)	mg/L	520	250
	Total Dissolved Solids	mg/L	1700	950
MW-09	Boron	mg/L	5.1	4.0
	Fluoride	mg/L	2.4	2.0
	Lithium	mg/L	0.30	0.10
	Sulfate (as SO4)	mg/L	450	250
	Total Dissolved Solids	mg/L	1400	950
MW-10	Boron	mg/L	16	4.0
	Chloride	mg/L	250	120
	Fluoride	mg/L	4.7	2.0
	Lithium	mg/L	0.84	0.10
	Sulfate (as SO4)	mg/L	400	250
	Total Dissolved Solids	mg/L	1900	950
MW-11	Boron	mg/L	5.4	4.0
MW-38	Lead	mg/L	0.0067	0.004

*

Surface Water Monitoring

Surface water samples collected during the April 2026 sampling event were analyzed for the same list of analytes as the groundwater monitoring locations. For comparison purposes only, the surface water sample results were compared to the GPS, even though groundwater standards are not applicable to surface water. The list of constituents that exceeded the GPS are provided in **Table 10**.

Table 10 | Surface Water Sample Summary

Surface Water Sample Location	Date Sampled	Waterbody Monitored	Constituents that Exceeded GPS*
SG-02	4/23/2026	Units 1/2 Impoundment	Sulfate
SG-04R	4/23/2026	Units 1/2 Impoundment	Sulfate
SG-05	4/23/2026	Internal Wetland West	None
SG-07	4/23/2026	Internal Wetland South	None

*GPS criteria not for regulatory compliance, only used as a reference value for comparison to groundwater concentrations.

5.0 Remedy Selection Progress Update

5.1 Second Quarter 2026 Investigative Activities

Three investigative activities initiated in the first quarter 2026 were concluded in the second quarter 2026.

5.1.1 Pumping Well Installation and Aquifer Test

In support of evaluating remedial alternatives that include groundwater extraction and treatment, a constant-rate aquifer test was conducted in March 2026. To complete the test, a new 6-inch diameter pumping well (PW-1) was installed in March 2026 northeast of the Unit 3A/B Impoundments. The well was screened from 28 to 38 feet below grade, in a fine-to-medium sand unit that is above a laterally-extensive fine-grained unit believed to be the lower confining unit.

Following development and a step drawdown test, well PW-1 was pumped at a constant rate of 112 gallons per minute (GPM) for 34 hours, during which time water level drawdown was monitored in the pumping well, nearby monitoring wells, and nearby surface water gauges. Groundwater withdrawn from the aquifer was staged in fractionation tanks (“frac tanks”) placed near the former plant footprint, south of Unit 3A/B and the substation. Water level drawdown was observed in several nearby wells, with the most representative results observed at well MW-01RB, screened in the same sand unit as PW-1. The transmissivity of the sand was estimated to be 2,800 feet squared per day (ft^2/d); based on a sand thickness of 13.5 feet, the hydraulic conductivity was estimated to be 205 feet per day (ft/d).

Unexpectedly, no drawdown was measured in several shallow monitoring wells, including wells MW-06 and MW-11, located less than 100 feet from well PW-1. Other wells screened in fill and other materials above the sand aquifer declined slowly during testing. The materials overlying the sand aquifer are therefore interpreted as partially-confining relative to the sand unit. Where drawdown was observed in shallow wells, the vertical hydraulic conductivity across the partially-confining unit was estimated to average approximately 0.32 ft/d, or approximately three orders of magnitude lower than the horizontal hydraulic conductivity of the sand aquifer.

During the installation of well PW-1, four geotechnical samples were collected between 41 and 47 feet below grade, from within the silt unit underlying the sand aquifer. All four samples were analyzed for grain size, and two of the four were analyzed for hydraulic conductivity via permeameter testing. The grain size analyses confirmed that silt was the majority fraction in

each of the four samples. The permeameter testing determined that the average hydraulic conductivity was 3.8 x 10^{-7} centimeters per second (cm/s) in the silt sample collected from 43 to 44 ft bgs; and 1.9 x 10^{-6} cm/s in the silt sample collected from 44 to 45 feet bgs.

Multiple analytical samples were collected during the pumping phase and submitted for analysis of CCR constituents and other water quality parameters. Broadly, CCR constituents were lower at well PW-1 during various stages of testing than at most monitoring wells. Only sulfate and TDS were reported to exceed GPS, and each were only reported above GPS in one of three samples collected from PW-1. Elevated concentrations of iron, calcium, and magnesium were reported which will be important considerations in future water treatment design scenarios.

Groundwater Modeling

During the second quarter of 2026, a three-dimensional (3D) groundwater flow model was developed to simulate potential CCR remedies. This model uses existing stratigraphic and hydrologic data that has been collected and compiled to date to create a conceptual site model that will serve as the framework for the flow model. The model was calibrated to Site water levels, including a transient calibration to changing water levels measured during aquifer testing. The model ran several remediation alternatives scenarios.

Bathymetric and Topographic Survey

Topographic and bathymetric surveys were completed on Harbor Island and nearshore environments to gather surface data in support of groundwater modeling and the remedy design. In March 2026, a LiDAR (Light Detection and Ranging) survey was conducted using Unmanned Aircraft Systems (UAS, i.e. drone technology) over the Island, the Internal Wetland, and the Northern Wetland. The bathymetric survey was also completed in March 2026 on the Main Channel and South Channel of the Grand River. Bathymetric data was also obtained through a “poling” survey by wading through the Units 1/2 Impoundment waste ponds. The topographic and bathymetric data and work products were received in May 2026 and integrated into the groundwater model.

5.2 Remedy Progress Selection

In the second quarter of 2026, specific remedial alternative conceptual designs were developed for Harbor Island groundwater. Remediation alternatives presented included:

1. Source Control
2. Barrier Wall
3. Source Control + Barrier Wall Hybrid

Prior to remedy selection, a public meeting will be held to present the remediation alternatives to the public and seek feedback. After remedy selection, a Remediation Action Plan will be prepared for submittal to EGLE. It is anticipated this will be submitted to EGLE in the first quarter 2027.

5.3 Next Steps

A Wetland Functional Assessment and Wetland Type Determination will be completed in the third quarter of 2026 to evaluate the quality and ecological functions of the onsite wetlands, ensuring that mitigation measures comply with legal requirements for in-kind replacement.

The design, bid specifications, and procurement for CCR removal from the North Channel (**Figure 2**) is ongoing. A Joint Permit Application (JPA) facilitating the CCR removal action has been filed with EGLE and is awaiting review.

The third quarter 2026 groundwater monitoring and sampling event is scheduled to be performed in August 2026.

6.0 Summary

The following observations are based on CCR Rule compliance groundwater monitoring during the second quarter of 2026:

- The second quarter 2026 groundwater sampling event was conducted in April 2026.
- Groundwater flow measured in the second quarter 2026 in the vicinity of the Units 1/2 Impoundment is generally radial, with components flowing eastward toward the Internal wetland, north toward the Northern wetland, south toward MW-05, and west toward the Grand River.
- Groundwater flow measured in the second quarter 2026 in the vicinity of the Unit 3A/B Impoundments is generally radial, with the highest elevations observed at monitoring wells MW-12 and MW-01R.
- The LCLs for the Units 1/2 Impoundment were re-calculated after the April 2026 assessment monitoring event and were compared to GPS values. Similar SSLs were identified for the Units 1/2 Impoundment as in previous monitoring events, with no new GPS exceedances.
- The LCLs for the Unit 3AB Impoundments were re-calculated after the April 2026 assessment monitoring event and were compared to GPS values. Similar SSLs were identified for the Unit 3A/B Impoundments as in previous monitoring events.
- Investigative activities completed in the second quarter of 2026 included the analysis of the March 2026 aquifer test, and a topographic and bathymetric survey of the Island, wetlands, waste units, and adjacent Grand River channels. The aquifer test results were used to inform a groundwater model of Harbor Island, which was developed in the second quarter.

7.0 References

ERM, 2017. Groundwater Monitoring System Certification for the Grand Haven Board of Light and Power, Environmental Resources Management Michigan, Inc. November 2017.

Golder Associates, Inc., 2018. 2017 Annual Groundwater Monitoring and Corrective Action Report. January 30, 2018.

Golder Associates, Inc., 2018a. Notice of Groundwater Protection Standard Exceedance. October 15, 2018.

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Golder Associates, Inc., 2020. 2019 Annual Groundwater Monitoring & Corrective Action Report. January 31, 2020.

Golder Associates, Inc., 2022. Field Summary Report of Results from Approved Work Plan -Piezometer Installation and Additional Data Collection. February 15, 2022.

HDR, 2025, Hydrogeologic Monitoring Plan. December 1, 2025.

HDR, 2025b. Former J.B. Sims Generating Station Remedial Investigation Data Collection Work Plan. July 8, 2025.

Appendix A

Groundwater Contour Map
April 20, 2026 Water Level Measurements

Renew Harbor Island
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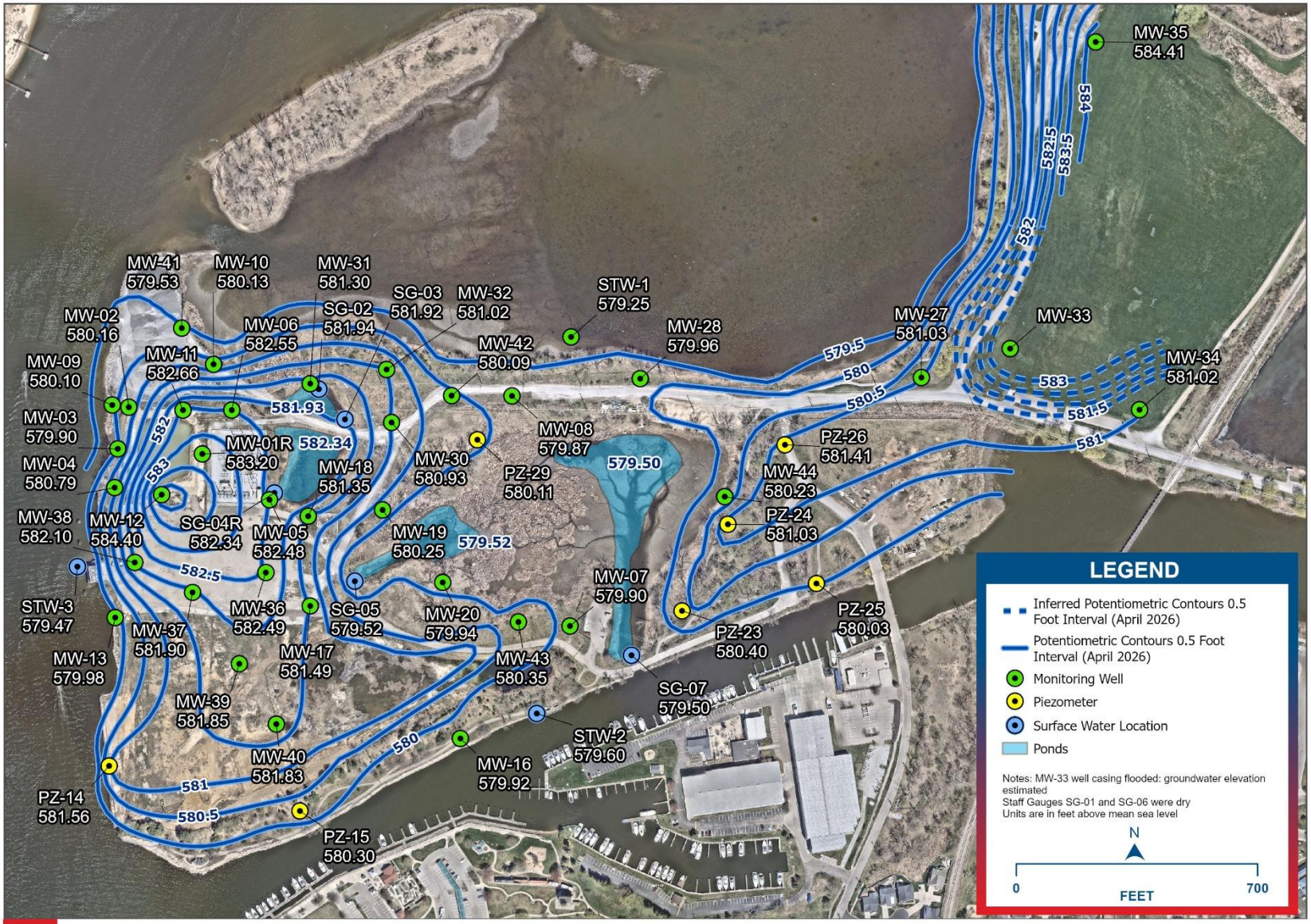

Renew Harbor Island HDR

FORMER J.B. SIMS GENERATING STATION
CITY OF GRAND HAVEN

Appendix B

Field Data Sheets

Water Sample Collection Field Data Sheet

Site Name: CAHH1 Well ID.: MW-01R

Sample I.D.(match bottle and COC form exactly): MW-01R

Personnel: AB

Date: 4/22/2020 Static Depth to Water (ft, btoc) 5.32

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/2020; 1632

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ——

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ——

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1705 Total Purge ~12 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1600			START					
1604	0.8	7.34	2.89	28.4	0.21	9.0	45.1	5.40
1608	1.6	7.36	2.86	2.07	0.14	9.1	39.5	5.55
1612	2.4	7.43	2.89	1.97	0.11	9.1	33.5	5.57
1616	3.2	7.47	2.92	2.02	0.09	9.0	28.6	5.58
1620	4.0	7.50	2.93	1.80	0.09	9.1	21.7	5.59
1624	4.8	7.53	2.93	0.02	0.08	9.1	14.3	5.60
1628	5.6	7.55	2.94	1.87	0.08	9.1	10.9	5.61
1632	6.4	7.57	2.96	0.96	0.09	9.1	5.6	5.61

Flow Rate ~200 mL/min

Pump controller setting 60%

General Comments:

N/A

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-01RB

Sample I.D.(match bottle and COC form exactly): MW-01RB

Personnel: AB

Date: 4/22/2026 Static Depth to Water (ft, btoc) 8.51

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/2026; 1530

Sample Method: LF Peri.

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ——

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1600 Total Purge 12.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1458			START					
1502	0.9	7.11	1.15	17.9	0.47	12.7	10.0	8.51
1506	1.8	7.11	1.10	10.3	0.26	12.9	-53.0	8.51
1510	2.7	7.11	1.11	3.84	0.24	12.8	-83.2	8.51
1514	3.6	7.11	1.11	1.49	0.24	12.8	-92.9	8.51
1518	4.5	7.11	1.12	1.07	0.24	12.7	-99.7	8.51
1522	5.4	7.11	1.12	0.63	0.24	12.8	-107.2	8.51
1526	6.3	7.11	1.13	0.02	0.24	12.8	-111.2	8.51
1530	7.2	7.11	1.13	0.02	0.24	12.8	-115.1	8.51

Flow Rate ~ 225 mL / min

Pump controller setting 602

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-02

Sample I.D.(match bottle and COC form exactly): MW-02

Personnel: AB

Date: 4/22/2026 Static Depth to Water (ft, btoc) 15.37

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/2026; 944

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1030 Total Purge 11.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
840			START					
844	0.4	7.15	3.10	41.6	1.43	10.7	-68.0	16.01
848	0.8	7.14	3.10	23.0	0.58	10.6	-119.1	16.17
852	1.2	7.14	3.11	17.9	0.38	10.8	-139.8	16.35
856	1.6	7.15	3.12	23.7	0.30	10.8	-145.7	16.43
900	2.0	7.15	3.15	24.4	0.25	10.9	-150.9	16.50
904	2.4	7.15	3.16	31.3	0.21	10.8	-153.8	16.55
908	2.8	7.16	3.18	27.1	0.18	11.0	-156.6	16.59
912	3.2	7.16	3.20	23.8	0.16	11.0	-160.1	16.59
916	3.6	7.16	3.22	22.9	0.17	11.1	-162.2	16.59
920	4.0	7.16	3.24	19.4	0.15	11.1	-163.9	16.61
924	4.4	7.16	3.25	17.1	0.13	11.1	-164.7	16.63
928	4.8	7.17	3.26	15.0	0.12	11.2	-165.2	16.65
932	5.2	7.17	3.29	12.1	0.10	11.2	-166.2	16.69
936	5.6	7.17	3.34	10.4	0.09	11.2	-167.0	16.71
940	6.0	7.17	3.35	9.16	0.10	11.2	-167.2	16.72
944	6.4	7.17	3.35	5.13	0.10	11.3	-167.7	16.73

Flow Rate ~ 100 mL/min

Pump controller setting ~ 45%

General Comments:

bubbles during purge

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-03

Sample I.D.(match bottle and COC form exactly): MW-03

Personnel: AB

Date: 4/20/2026 Static Depth to Water (ft, btoc) 13.18

Date/Time Sample Collected (match bottle and COC form exactly): 4/20/2026 ; 1232

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ——

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ——

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1300 Total Purge 14 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1148			START					
1152	0.8	7.47	2.65	3.10	0.29	9.2	-5.4	13.57
1156	1.6	7.44	2.64	0.39	0.13	9.2	-48.1	13.70
1200	2.4	7.45	2.63	0.02	0.11	9.2	-77.4	13.76
1204	3.2	7.42	2.63	1.48	0.14	9.2	-109.4	13.79
1208	4.0	7.44	2.62	1.68	0.14	9.4	-130.2	13.82
1212	4.8	7.42	2.61	1.25	0.19	9.3	-155.1	13.84
1216	5.6	7.43	2.62	0.02	0.20	9.3	-172.0	13.86
1220	6.4	7.41	2.60	0.02	0.12	9.2	-178.3	13.87
1224	7.2	7.39	2.59	0.02	0.10	9.2	-188.0	13.88
1228	8.0	7.40	2.59	0.02	0.09	9.3	-193.0	13.89
1232	8.8	7.39	2.59	0.02	0.10	9.3	-195.0	13.90

Flow Rate ~200 mL/min

Pump controller setting 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-04

Sample I.D.(match bottle and COC form exactly): MW-04

Personnel: AB

Date: 4/20/2026 Static Depth to Water (ft, btoc) 10.70

Date/Time Sample Collected (match bottle and COC form exactly): 2/40/2026; 1404

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1435 Total Purge 11 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1336			START					
1340	0.8	7.33	1.69	0.25	0.32	8.3	-68.1	11.01
1344	1.6	7.34	1.77	0.02	0.20	8.1	-86.4	11.13
1348	2.4	7.36	1.83	0.02	0.17	8.1	-96.2	11.17
1352	3.2	7.36	1.84	0.02	0.16	8.4	-101.3	11.18
1356	4.0	7.36	1.86	0.02	0.15	8.4	-107.1	11.20
1400	4.8	7.36	1.86	0.02	0.15	8.4	-112.7	11.22
1404	5.6	7.36	1.86	0.02	0.16	8.4	-116.1	11.23

Flow Rate ~200mL/min

Pump controller setting 55%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHH Well ID.: MW-04R

Sample I.D.(match bottle and COC form exactly): MW-04R

Personnel: AB

Date: 4/20/2026 Static Depth to Water (ft, btoc) 8.84

Date/Time Sample Collected (match bottle and COC form exactly): 4/20/2026; 1508

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1540 Total Purge 12 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1440			START					
1444	0.8	7.29	2.12	1.90	0.64	9.8	-63.2	9.59
1448	1.6	7.31	2.12	0.02	0.78	9.6	-76.6	9.77
1452	2.4	7.31	2.12	0.02	0.42	9.8	-86.3	9.84
1456	3.2	7.31	2.13	0.17	0.54	9.7	-93.4	9.86
1500	4.0	7.31	2.13	0.12	0.44	9.8	-96.7	9.87
1504	4.8	7.31	2.13	1.87	0.46	9.9	-98.6	9.89
1508	5.6	7.31	2.13	2.24	0.47	9.8	-101.7	9.90

Flow Rate ~ 200mL/min

Pump controller setting 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-06

Sample I.D.(match bottle and COC form exactly): MW-06

Personnel: AB

Date: 4/22/2026 Static Depth to Water (ft, btoc) 8.01

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/2026 ; 1422

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1455 Total Purge 11 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1358			START					
1402	.9	7.49	1.92	95.3	0.24	10.2	-98.9	8.14
1406	1.8	7.51	1.93	2.62	8.13	10.0	-121.3	8.16
1410	2.7							
1414	3.6	7.51	1.93	2.12	0.14	9.9	-130.2	8.16
1418	4.5	7.51	1.92	2.34	0.14	9.9	-138.9	8.16
1422	5.4	7.51	1.92	2.03	0.14	9.9	-140.0	8.16

Flow Rate ~225 mL/min

Pump controller setting 60%

General Comments:

N/A

Water Sample Collection Field Data Sheet

Site Name: CHH1 Well ID.: MW-07

Sample I.D.(match bottle and COC form exactly): MW-07

Personnel: AB

Date: 4/21/2026 Static Depth to Water (ft, btoc) 6.42

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/2026; 1600

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1630 Total Purge 12.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1528			START					
1532	0.9	6.89	1.39	32.2	0.27	10.9	-54.2	6.51
1536	1.8	6.91	1.39	216.4	0.29	10.8	-76.5	6.52
1540	2.7	6.91	1.39	9.77	0.24	10.7	-89.7	6.52
1544	3.6	6.91	1.39	4.60	0.20	10.7	-95.4	6.52
1548	4.5	6.91	1.39	3.59	0.19	10.7	-98.7	6.52
1552	5.4	6.91	1.39	3.79	0.20	10.8	-100.3	6.52
1556	6.3	6.91	1.40	4.23	0.21	10.7	-102.6	6.52
1600	7.2	6.91	1.40	2.24	0.21	10.7	-105.0	6.52

Flow Rate ~225 mL/min

Pump controller setting 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-08

Sample I.D. (match bottle and COC form exactly): MW-08

Personnel: F. Davis Ray

Date: 4/21/26 Static Depth to Water (ft, btoc): 5.47

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/26 1520

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate (Yes) No Duplicate Sample ID: MWT-08 4/21/26 1600

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1640 Total Purge: 5.25 Units: L

Field Measurements:

1445 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1450	0.75	7.19	0.595	3.20	0.18	10.6	-175.4	5.57
1455	1.5	7.20	0.620	2.06	0.19	10.5	-192.6	5.58
1500	2.25	7.21	0.642	1.85	0.14	10.4	-197.7	5.58
1505	3.0	7.23	0.660	3.06	0.12	10.2	-199.4	5.59
1510	3.75	7.24	0.666	1.61	0.13	10.1	-199.2	5.58
1515	4.5	7.26	0.673	2.06	0.11	10.2	-197.6	5.57

Flow Rate: ~150 mL/min

Pump Controller Setting: Medium-high (60%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-09

Sample I.D.(match bottle and COC form exactly): MW-09

Personnel: AB

Date: 4/22/2026 Static Depth to Water (ft, btoc) 9.38

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/2026; 1130

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1200 Total Purge 14 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1046			START					
1050	0.8	7.19	2.89	23.2	0.40	9.8	23.2	9.91
1054	1.6	7.07	2.88	19.4	0.25	9.6	-9.1	9.97
1058	2.4	7.08	2.87	5.29	0.17	9.4	-26.4	10.04
1102	3.2	7.09	2.87	9.68	0.16	9.3	-44.0	10.09
1106	4.0	7.09	2.88	8.23	0.18	9.4	-52.9	10.11
1110	4.8	7.09	2.89	4.06	0.17	9.5	-61.1	10.12
1114	5.6	7.08	2.90	1.05	0.16	9.5	-67.1	10.12
1118	6.4	7.08	2.90	6.07	0.13	9.5	-69.4	10.12
1122	7.2	7.08	2.91	1.11	0.11	9.5	-73.3	10.12
1126	8.0	7.08	2.92	5.27	0.11	9.5	-76.0	10.12
1130	8.8	7.08	2.92	1.09	0.11	9.5	-78.6	

Flow Rate ~200 mL/min

Pump controller setting 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-10

Sample I.D.(match bottle and COC form exactly): MW-10

Personnel: AB

Date: 4/23/2026 Static Depth to Water (ft, btoc) 6.56

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/2026, 908

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate (Yes) No Duplicate Sample ID: MWT-10

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1010 Total Purge 26 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
804				START				
808	1	7.52	2.63	7.99	3.25	8.0	116.1	6.85
812	2	7.56	2.60	1.13	0.29	8.1	53.7	6.87
816	3							
820	4	7.60	2.60	1.14	0.26	8.1	31.4	6.87
824	5	7.64	2.60	0.68	0.22	8.1	15.2	6.87
828	6	7.68	2.58	0.65	0.18	8.2	-8.0	6.87
832	7	7.73	2.56	0.53	0.15	8.2	-41.3	6.87
836	8	7.75	2.55	0.69	0.14	8.2	-67.9	6.87
840	9	7.78	2.53	0.69	0.13	8.2	-106.1	6.87
844	10	7.79	2.53	0.64	0.13	8.2	-120.0	6.87
848	11	7.80	2.52	0.82	0.12	8.2	-136.4	6.87
852	12	7.81	2.52	1.03	0.10	8.3	-145.9	6.87
856	13	7.81	2.51	1.50	0.11	8.3	-154.2	6.87
900	14	7.82	2.50	1.13	0.11	8.3	-160.2	6.87
904	15	7.82	2.50	0.97	0.11	8.3	-165.1	6.87
908	16	7.82	2.49	1.59	0.11	8.4	-168.9	6.87

Flow Rate ~~~200 mL/min~~ 250 mL / min

Pump controller setting 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-11

Sample I.D.(match bottle and COC form exactly): MW-11

Personnel: AB

Date: 4/22/2026 Static Depth to Water (ft, btoc) 12.54

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/2026, 1320

Sample Method: LF Peri.

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1355 Total Purge 14 Units L

Field Measurements:

Time (24 hour)	Amount purged ~~(ml)~~ L	pH	COND ~~(mS~~/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1244	—	—	START	—	—	—	—	—
1248	1	—	—	—	—	—	—	—
1252	2	7.51	1.260	60.1	0.25	10.4	-80.7	12.92
1256	3	7.45	1.31	25.8	0.13	10.1	-107.9	12.97
1300	4	7.44	1.34	21.2	0.14	10.1	-125.4	12.98
1304	5	7.42	1.35	19.0	0.12	10.1	-133.0	12.98
1308	6	7.42	1.36	17.2	0.11	10.1	-137.5	12.98
1312	7	7.42	1.36	12.6	0.12	10.1	-141.0	12.98
1316	8	7.41	1.37	8.24	0.12	10.1	-145.1	12.98
1320	9	7.41	1.37	4.03	0.11	10.1	-147.2	12.98

Flow Rate ~250 mL/min

Pump controller setting 60%

General Comments:

N/A

TD: 11.50
TB - 1715

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-12

Sample I.D.(match bottle and COC form exactly): MW-12

Personnel: AB

Date: 4/20/2026 Static Depth to Water (ft, btoc) 3.64

Date/Time Sample Collected (match bottle and COC form exactly): 4/20/2026; 1620

Sample Method: LF Peri.

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate (Yes) No Duplicate Sample ID: MW-12

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1700 Total Purge 12.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1544			START					
1548	0.8	7.77	0.293	27.1	1.11	12.7	-77.5	3.74
1552	1.6	7.85	0.284	22.9	1.40	12.8	-70.1	3.75
1556	2.4	7.88	0.283	42.4	1.57	12.8	-59.0	3.74
1600	3.2	7.89	0.282	28.9	1.44	12.9	-47.2	3.74
1604	4.0	7.90	0.281	16.2	1.45	12.9	-43.3	3.74
1608	4.8	7.90	0.281	10.3	1.47	12.8	-38.6	3.74
1612	5.6	7.89	0.282	9.71	1.48	12.8	-34.1	3.74
1616	6.4	7.90	0.281	5.56	1.46	12.8	-30.4	3.74
1620	7.2	7.89	0.280	0.86	1.46	12.7	-27.6	3.74

Flow Rate 200 mL/min
Pump controller setting ~88%
General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-13

Sample I.D.(match bottle and COC form exactly): MW-13

Personnel: AB

Date: 4/21/2026 Static Depth to Water (ft, btoc) 5.89

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/2026, 1318

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1350 Total Purge 11 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1250			START					
1254	0.8	7.31	1.77	9.36	0.58	13.1	-8.2	5.93
1258	1.6	7.30	1.76	2.43	0.38	13.0	-20.1	5.93
1302	2.4	7.28	1.74	1.72	0.24	13.0	-38.6	5.93
1306	3.2	7.28	1.73	1.21	0.24	12.9	-46.5	5.93
1310	4.0	7.27	1.74	0.22	0.24	12.9	-51.0	5.93
1314	4.8	7.26	1.75	0.02	0.23	12.9	-55.1	5.93
1318	5.6	7.25	1.74	0.02	0.24	12.9	-59.6	5.93

Flow Rate ~200 mL/min

Pump controller setting 45%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-16

Sample I.D. (match bottle and COC form exactly): MW-16

Personnel: F. Davis Ray

Date: 4/23/26 Static Depth to Water (ft, btoc): 5.04

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/26 1030

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1050 Total Purge: 8.75 Units: L

Field Measurements:

0955 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1000	1.25	6.99	1.16	0.47	0.53	12.8	-98.9	5.10
1005	2.5	7.02	1.15	0.44	0.45	12.7	-111.5	5.11
1010	3.75	7.04	1.14	0.32	0.32	12.5	-118.7	5.12
1015	5.0	7.05	1.13	0.02	0.25	12.7	-123.0	5.11
1020	6.25	7.05	1.13	0.02	0.22	12.6	-124.5	5.10
1025	7.5	7.06	1.12	0.02	0.21	12.6	-126.3	5.11

Flow Rate: ~250 mL/min

Pump Controller Setting: Medium-high (65%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CAHHI Well ID.: MW-17

Sample I.D.(match bottle and COC form exactly): MW-17

Personnel: AB

Date: 4/21/2026 Static Depth to Water (ft, btoc) .52

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/2026 ,1440

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: Yes (No)

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1510 Total Purge 12.5 Units L

Field Measurements:

Time (24 hour)	Amount purged ~~(ml)~~ L	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1404	—	—	START	—	—	—	—	—
1408	0.8	7.71	0.86	63.4	0.20	9.5	-81.6	5.63
1412	1.6	7.80	0.91	26.8	0.16	9.5	-123.0	5.63
1416	2.4	7.85	0.93	0.02	0.13	9.5	-153.6	5.64
1420	3.2	7.85	0.93	0.02	0.11	9.6	-168.4	5.63
1424	4.0	7.86	0.94	0.02	0.10	9.7	-175.5	5.63
1428	4.8	7.86	0.94	0.02	0.11	9.8	-184.7	5.63
1432	5.6	7.86	0.94	0.02	0.09	9.7	-187.1	5.63
1436	6.4	7.87	0.95	0.02	0.11	9.8	-189.7	5.63
1440	7.2	7.87	0.95	0.02	0.10	9.6	-192.4	5.63

Flow Rate ~200 mL/min

Pump controller setting 50%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-18

Sample I.D. (match bottle and COC form exactly): MW-18

Personnel: F. Davis Ray

Date: 4/22/26 Static Depth to Water (ft, btoc): 5.87

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/26 1630

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1650 Total Purge: 9 Units: L

Field Measurements:

Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1545								
1550	1.0	7.15	0.79	5.72	3.70	10.7	-0.5	5.99
1555	2.0	7.13	0.86	0.93	2.84	10.8	-44.1	5.99
1600	3.0	7.12	0.89	0.65	2.59	10.7	-61.1	5.99
1605	4.0	7.12	0.91	0.27	2.26	10.8	-71.5	5.99
1610	5.0	7.12	0.93	0.30	2.07	10.8	-75.7	5.99
1615	6.0	7.11	0.95	0.33	1.82	10.6	-75.9	5.99
1620	7.0	7.10	0.98	0.92	1.67	10.5	-78.3	6.00
1625	8.0	7.10	0.97	1.50	1.59	10.6	-80.2	5.99
1630	9.0	7.10	0.99	0.86	1.63	10.7	-80.9	6.00

Flow Rate: ~200 mL/min

Pump Controller Setting: Medium-high (65%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHHI Well ID.: [redacted] MW-19

Sample I.D.(match bottle and COC form exactly): MW-19

Personnel: AB

Date: 4/23/2026 Static Depth to Water (ft, btoc) 5.72

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/2026, 1140

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ——

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ——

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc): dedicated tubing

Time Completed: 1210 Total Purge 14 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1056	——	——	START	——	——	——	——	——
1100	0.8	7.02	1.84		0.24	9.6	56.2	5.75
1104	1.6	7.02	1.86	20.1	0.97	9.6	36.6	5.75
1108	2.4	7.01	1.85	17.0	0.28	9.5	30.3	5.75
1112	3.2	7.00	1.85	15.5	0.17	9.4	24.5	5.75
1116	4.0	6.99	1.84	12.9	0.16	9.4	13.1	5.75
1120	4.8	6.99	1.83	11.7	0.18	9.4	7.1	5.75
1124	5.6	6.98	1.83	8.62	0.16	9.3	-0.8	5.75
1128	6.4	6.97	1.83	7.41	0.15	9.3	-8.1	5.75
1132	7.2	6.97	1.83	6.22	0.14	9.3	-14.1	5.75
1136	8.0	6.96	1.82	5.01	0.13	9.3	-19.5	5.75
1140	8.8	6.96	1.82	2.37	0.12	9.3		

Flow Rate ~200 mL/min

Pump controller setting 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-20

Sample I.D. (match bottle and COC form exactly): MW-20

Personnel: F. Davis Ray

Date: 4/22/26 Static Depth to Water (ft, btoc): 5.80

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/26 1020

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1050 Total Purge: 7.5 Units: L

Field Measurements:

0950 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0955	1.25	7.28	1.03	1.00	0.51	9.8	-119.7	5.72
1000	2.5	7.28	1.03	0.02	0.34	9.9	-136.5	5.72
1005	3.75	7.27	1.03	0.02	0.35	10.0	-143.8	5.72
1010	5.0	7.24	1.04	0.02	0.29	10.0	-146.7	5.72
1015	6.25	7.24	1.05	0.02	0.28	10.1	-149.5	5.72

Flow Rate: ~250

Pump Controller Setting: Medium-high (70%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-27

Sample I.D. (match bottle and COC form exactly): MW-27

Personnel: E. Davis Ray

Date: 4/22/26 Static Depth to Water (ft, btoc): 4.06

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/26 1330

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1400 Total Purge: 9 Units: L

Field Measurements:

1245 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1250	1.0	7.03	0.616	0.92	0.81	12.4	-66.1	4.47
1255	2.0	7.02	0.622	0.02	0.38	12.5	-89.3	4.47
1300	3.0	7.03	0.635	0.49	0.28	12.5	-102.1	4.46
1305	4.0	7.03	0.653	0.02	0.24	12.4	-110.1	4.46
1310	5.0	7.03	0.670	0.02	0.23	12.3	-115.8	4.47
1315	6.0	7.02	0.680	0.02	0.22	12.4	-120.1	4.47
1320	7.0	6.99	0.690	0.02	0.21	12.3	-122.2	4.46
1325	8.0	7.01	0.700	0.02	0.19	12.2	-127.5	4.46

Flow Rate: ~200 mL/min

Pump Controller Setting: Medium-high (55%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: HDR-GHHI Well ID.: MW-28

Sample I.D.(match bottle and COC form exactly): MW-28

Personnel: AB

Date: 4/23/26 Static Depth to Water (ft, btoc) 8.05

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/26, 1258

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1330 Total Purge 12.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1222			START					
1226	0.8	7.09	0.95	25.6	0.21	9.6	17.3	8.28
1230	1.6	7.10	0.93	21.3	0.13	9.8	-17.2	8.30
1234	2.4	7.10	0.93	18.6	0.12	9.8	-29.3	8.30
1238	3.2	7.09	0.93	14.2	0.12	9.8	-48.8	8.31
1242	4.0	7.08	0.94	10.3	0.13	9.7	-51.1	8.32
1246	4.8	7.09	0.93	8.76	0.17	9.7	-55.7	8.32
1250	5.6	7.08	0.93	5.44	0.13	9.7	-59.6	8.33
~~1300~~ 1254	6.4	7.08	0.93	0.02	0.12	9.7	-63.1	8.33
1258	7.2	7.08	0.93	3.06	0.13	9.7	-66.0	8.33

Flow Rate ~200 mL/min

Pump controller setting 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-30

Sample I.D. (match bottle and COC form exactly): MW-30

Personnel: F. Davis Ray

Date: 4/21/26 Static Depth to Water (ft, btoc): 4.87

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/26 1100

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1120 Total Purge: 15 Units: L

Field Measurements:

1010 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1015	1.5	6.92	2.78	1.40	0.40	8.5	-112.7	5.00
1020	3.0	6.94	2.84	0.92	0.46	8.5	-115.5	5.01
1025	4.5	6.95	2.94	0.02	0.40	8.5	-122.7	5.02
1030	6.0	6.96	3.01	0.02	0.32	8.4	-129.9	5.02
1035	7.5	6.96	3.06	0.02	0.30	8.4	-136.9	5.03
1040	9.0	6.96	3.09	0.02	0.33	8.5	-141.5	5.03
1045	10.5	6.97	3.13	0.02	0.32	8.5	-148.5	5.02
1050	12.0	6.97	3.14	0.02	0.35	8.5	-154.0	5.02
1055	13.5	6.97	3.16	0.02	0.33	8.5	-157.7	5.03

Flow Rate: ~300 mL/min

Pump Controller Setting: Medium-high (65%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-31

Sample I.D. (match bottle and COC form exactly): MW-31

Personnel: F. Davis Ray

Date: 4/21/26 Static Depth to Water (ft, btoc): 4.43

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/26 0900

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 0950 Total Purge: 4 Units: L

Field Measurements:

0820 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0825	0.5	7.10	1.910	9.25	1.36	9.4	-21.1	4.88
0830	1.0	7.22	1.910	5.55	0.96	9.5	-100.7	5.03
0835	1.5	7.28	1.890	4.22	0.65	9.3	-132.1	5.19
0840	2.0	7.31	1.880	4.57	0.52	9.3	-148.3	5.32
0845	2.5	7.30	1.880	6.95	0.41	9.3	-158.7	5.39
0850	3.0	7.29	1.90	6.52	0.40	9.4	-164.2	5.44
0855	3.5	7.28	1.90	6.61	0.39	9.3	-168.5	5.55

Flow Rate: ~100 mL/min

Pump Controller Setting: Medium-low (45%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-32

Sample I.D. (match bottle and COC form exactly): MW-32

Personnel: F. Davis Ray

Date: 4/21/26 Static Depth to Water (ft, btoc): 5.24

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/26 1210

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1235 Total Purge: 7 Units: L

Field Measurements:

1135 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1140	1.0	7.34	1.39	29.0	0.73	9.4	-173.9	5.37
1145	2.0	7.35	1.39	14.8	0.45	9.5	-183.9	5.39
1150	3.0	7.34	1.38	9.45	0.31	9.2	-187.9	5.38
1155	4.0	7.35	1.38	6.22	0.26	9.0	-190.2	5.39
1200	5.0	7.35	1.38	3.84	0.19	9.1	-190.4	5.40
1205	6.0	7.36	1.38	3.40	0.22	9.1	-191.2	5.38

Flow Rate: ~200 mL/min

Pump Controller Setting: Medium-high (65%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-33

Sample I.D. (match bottle and COC form exactly): MW-33

Personnel: F. Pauls Ray

Date: 4/23/26 Static Depth to Water (ft, btoc): Flooded

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/26 1145

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1200 Total Purge: 10.5 Units: L

Field Measurements:

1115 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1120	1.75	7.06	0.76	6.52	0.32	10.0	10.3	0.6?
1125	3.5	7.09	0.76	3.56	0.20	9.7	6.8	0.7?
1130	5.25	7.08	0.77	2.19	0.19	9.5	9.1	0.7?
1135	7.0	7.09	0.77	0.64	0.18	9.6	8.9	0.7?
1140	8.75	7.08	0.77	1.01	0.17	9.5	15.3	0.7?

Below tape (est. w/ probe)

Flow Rate: ~350 mL/min

Pump Controller Setting: High (75%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-34

Sample I.D. (match bottle and COC form exactly): MW-34

Personnel: F. Davis Ray

Date: 4/22/26 Static Depth to Water (ft, btoc): 3.42

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/26 1500

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1520 Total Purge: 10 Units: L

Field Measurements:

1420 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1425	1.25	6.56	1.56	10.1	1.47	10.2	-58.5	3.34
1430	2.5	6.59	1.64	14.3	0.74	10.1	-73.8	3.32
1435	3.75	6.59	1.69	13.5	0.56	9.9	-83.1	3.35
1440	5.0	6.60	1.71	12.1	0.56	10.0	-90.9	3.35
1445	6.25	6.59	1.74	7.08	0.48	10.0	-99.1	3.35
1450	7.5	6.59	1.76	7.77	0.47	10.0	-102.1	3.35
1455	8.75	6.58	1.79	6.40	0.44	9.9	-104.3	3.35

Flow Rate: ~250 ml/min

Pump Controller Setting: Medium-high (70%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHH1 Well ID.: MW-36

Sample I.D.(match bottle and COC form exactly): MW-36

Personnel: AB

Date: 4/21/2026 Static Depth to Water (ft, btoc) 7.17

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/26; 1146

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1215 Total Purge 22.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1030	———	———	START	———	———	———	———	———
1034	0.9	11.49	0.686	3.26	0.24	9.3	63.1	7.29
1038	1.8	10.41	0.612	0.11	0.16	9.2	86.5	7.29
1042	2.7	10.13	0.628	0.02	0.11	9.1	54.7	7.29
1046	3.6	9.91	0.646	0.02	0.09	9.1	49.4	7.30
1050	4.5	9.76	0.659	0.02	0.10	9.2	41.9	7.30
1054	5.4	9.63	0.674	0.02	0.08	9.2	23.6	7.30
1058	6.3	9.57	0.680	0.02	0.07	9.2	-11.0	7.30
1102	7.2	9.51	0.688	0.02	0.06	9.2	-43.0	7.30
1106	8.1	9.42	0.695	0.02	0.04	9.2	-100.7	7.30
1110	9.0	9.39	0.702	0.02	0.06	9.2	-104.8	7.30
1114	9.9	9.44	0.690	0.02	0.06	9.4	-149.0	7.30
1118	10.8	9.38	0.700	0.05	0.02	9.4	-200.6	7.30
1122	11.7	9.36	0.704	0.02	0.06	9.4	-250.6	7.30
1126	12.6	9.32	0.716	0.02	0.006	9.4	-280.1	7.30
1130	13.5	9.30	0.73	0.02	0.07	9.4	-295.6	7.30
1134	14.4	9.29	0.711	0.02	0.04	9.4	-301.5	7.31

Flow Rate ~225 mL/min

Pump controller setting 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: MW-36

Sample I.D.(match bottle and COC form exactly): MW-36

Personnel: AB

Date: 4/21/2026 Static Depth to Water (ft, btoc) 7.17

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/26, 1146

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1215 Total Purge 22.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1138	15.3	9.27	0.72	0.02	0.05	9.4	-310.2	7.31
1142	16.2	9.24	0.72	0.02	0.05	9.4	-312.6	7.31
1146	17.1	9.22	0.73	0.02	0.06	9.4	-319.9	7.31

Flow Rate ~225 mL/min

Pump controller setting 60%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CAHHI Well ID.: MW-37

Sample I.D.(match bottle and COC form exactly): MW-37

Personnel: AB

Date: 4/21/26 Static Depth to Water (ft, btoc) 7.74

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/26, 954

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: ———

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: ———

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 1025 Total Purge 12.5 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
922				START				
926	0.9	7.79	0.78	210	6.45	9.5	107.5	7.80
930	1.8	7.61	0.77	63.0	6.30	9.5	119.9	7.81
934	2.7	7.61	0.76	31.6	7.55	9.9	122.9	7.81
938	3.6	7.57	0.76	31.8	6.61	9.6	123.9	7.81
942	4.5	7.51	0.75	30.7	6.14	9.4	127.9	7.83
946	5.4	7.50	0.77	1.94	5.81	9.6	129.8	7.83
950	6.3	7.49	0.77	1.06	5.40	9.5	130.1	7.83
954	7.2	7.47	0.77	0.02	5.35	9.5	131.2	7.83

Flow Rate ~225 mL/min

Pump controller setting 65%

General Comments:

Water Sample Collection Field Data Sheet

Site Name: CHHI Well ID.: MW-38

Sample I.D.(match bottle and COC form exactly): MW-38

Personnel: AB

Date: 4/21/26 Static Depth to Water (ft, btoc) 8.46

Date/Time Sample Collected (match bottle and COC form exactly): 9/21/26; 842

Sample Method: LF Peri

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: —

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: —

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) dedicated tubing

Time Completed: 915 Total Purge 16 Units L

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
750			START					
754	0.8	12.54	2.71	26.9	0.92	9.4	113.7	8.61
758	1.6	12.57	2.96	8.75	1.10	9.6	106.4	8.61
802	2.4	12.68	4.46	4.82	1.06	9.7	101.1	8.61
806	3.2	12.75	5.43	4.18	1.00	9.3	95.6	8.62
810	4.0	12.82	6.29	0.23	0.96	9.3	91.8	8.62
814	4.8	12.89	7.05	0.02	0.88	9.9	84.7	8.64
818	5.6	12.94	7.63	0.02	0.82	10.0	80.3	8.63
822	6.4	12.97	8.10	0.02	0.75	10.0	77.0	8.63
826	7.2	12.99	8.25	0.02	0.74	10.0	73.7	8.64
830	8.0	13.01	8.50	0.02	0.68	10.0	69.8	8.64
834	8.8	13.02	8.68	0.02	0.63	10.0	66.2	8.64
838	9.6	13.03	8.81	0.02	0.62	10.0	63.0	8.65
842	10.4	1304	8.88	0.02	0.61	10.0	59.4	8.65

Flow Rate ~ 200 mL/min

Pump controller setting 6026

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-39

Sample I.D. (match bottle and COC form exactly): MW-39

Personnel: F. Davis Ray

Date: 4/23/26 Static Depth to Water (ft, btoc): 5.51

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/26 0915

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 0940 Total Purge: 8 Units: L

Field Measurements:

0835 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0840	1.0	6.75	1.14	49.4	2.66	10.4	44.8	6.33
0845	2.0	7.04	1.17	42.1	0.68	10.8	-66.6	6.36
0850	3.0	7.11	1.20	11.5	0.58	10.6	-94.2	6.40
0855	4.0	7.13	1.23	5.50	0.43	10.5	-106.3	6.38
0900	5.0	7.14	1.25	4.88	0.36	10.6	-114.5	6.38
0905	6.0	7.15	1.27	4.46	0.36	10.7	-122.5	6.39
0910	7.0	7.14	1.28	4.42	0.33	10.6	-123.9	6.40

Flow Rate: ~200 mL/min

Pump Controller Setting: Medium-high (55%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-41

Sample I.D. (match bottle and COC form exactly): MW-41

Personnel: F. Davis Ray

Date: 4/22/26 Static Depth to Water (ft, btoc): 8.84

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/26 0845

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 0920 Total Purge: 4.5 Units: L

Field Measurements:

0800 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
0805	0.5	7.31	3.22	>40.0	1.13	9.4	-15.8	8.65
0810	1.0	7.38	3.11	21.2	0.74	9.5	-78.2	8.66
0815	1.5	7.38	3.03	12.9	0.79	9.6	-80.5	8.65
0820	2.0	7.33	2.89	6.08	1.20	9.5	-70.3	8.66
0825	2.5	7.31	2.81	3.59	1.42	9.4	-68.7	8.67
0830	3.0	7.31	2.75	2.41	1.56	9.4	-59.6	8.67
0835	3.5	7.31	2.71	3.38	1.61	9.4	-58.6	8.68
0840	4.0	7.31	2.68	2.61	1.63	9.4	-60.1	8.69

Flow Rate: ~ 100 mL/min

Pump Controller Setting: Medium (50%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-42

Sample I.D. (match bottle and COC form exactly): MW-42

Personnel: F. Davis Ray

Date: 4/21/26 Static Depth to Water (ft, btoc): 5.62

Date/Time Sample Collected (match bottle and COC form exactly): 4/21/26 1400

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1430 Total Purge: 8 Units: L

Field Measurements:

1320 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1325	1.0	6.83	1.50	52.9	2.15	9.3	-80.6	5.94
1330	2.0	6.84	1.50	30.0	0.63	9.5	-106.8	5.89
1335	3.0	6.85	1.51	18.1	0.45	9.6	-121.3	5.92
1340	4.0	6.85	1.50	18.8	0.32	9.6	-127.8	5.91
1345	5.0	6.86	1.50	6.64	0.34	9.6	-131.9	5.92
1350	6.0	6.86	1.50	5.48	0.29	9.6	-135.7	5.90
1355	7.0	6.86	1.49	4.32	0.27	9.7	-140.7	5.91

Flow Rate: ~200 mL/min

Pump Controller Setting: Medium-high (60%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: MW-43

Sample I.D. (match bottle and COC form exactly): MW-43

Personnel: F. Davis Ray

Date: 4/22/26 Static Depth to Water (ft, btoc): 5.14

Date/Time Sample Collected (match bottle and COC form exactly): 4/22/26 1145

Sample Method: Peristaltic

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): Dedicated tubing

Time Completed: 1210 Total Purge: 9.0 Units: L

Field Measurements:

1100 Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1105	1.0	7.40	0.615	2.91	0.47	10.9	54.2	5.36
1110	2.0	7.42	0.612	0.02	0.36	10.9	18.9	5.37
1115	3.0	7.43	0.614	0.02	0.26	10.9	-8.1	5.36
1120	4.0	7.42	0.615	0.02	0.24	10.5	-29.0	5.37
1125	5.0	7.44	0.613	0.02	0.20	10.9	-48.1	5.36
1130	6.0	7.43	0.615	0.02	0.19	10.9	-57.4	5.37
1135	7.0	7.43	0.615	0.02	0.18	10.9	-61.9	5.36
1140	8.0	7.42	0.616	0.02	0.17	11.0	-65.7	5.36

Flow Rate: ~ 200 mL/min

Pump Controller Setting: Medium-high (65%)

General Comments:

Water Sample Collection Field Data Sheet

Site Name: GHHI Well ID.: SG-02

Sample I.D.(match bottle and COC form exactly): SG-02

Personnel: F. Davis Ray

Date: 4/23/26 Static Depth to Water (ft, btoc) —

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/26 1350

Sample Method: Grab

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill In All Blanks)

Depth of Sample Collection (pump depth) (ft, btoc) ~6 inches

Time Completed: 1355 Total Purge — Units —

Field Measurements:

Time (24 hour)	Amount purged (ml)	pH	COND (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1345	—	7.74	1.21	3.96	8.22	20.1	47.6	~6 inch

Flow Rate_____

Pump controller setting_____

General Comments:

_____

_____

_____

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: SG-04R

Sample I.D. (match bottle and COC form exactly): SG-04R

Personnel: F. Davis Ray Date: 4/23/26

Static Depth to Water (ft, btoc): — Well Total Depth (ft, btoc): —

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/26 1330

Sample Method: Grab

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.: _____

Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.: _____

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc): ~6 inches

Time Completed: 1335 Total Purge: — Units: —

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (~~µS~~ mS/cm)	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1325	—	8.08	1.13	5.47	~~8.08~~ 7.52	20.5	20.1	~6 in	—

Flow Rate: _____

Pump Controller Setting: _____

General Comments:

_____

_____

_____

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: SG-05

Sample I.D. (match bottle and COC form exactly): SG-05

Personnel: F. Davis Ray Date: 4/23/26

Static Depth to Water (ft, btoc): — Well Total Depth (ft, btoc): —

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/26 1315

Sample Method: Grab

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample I.D.: _____

Sample QC: Equipment Blank Yes (No) Equip. Blank Sample I.D.: _____

Well Purging Data (Fill in All Blanks):

Depth of Sample Collection (pump intake depth; ft, btoc): ~6 inches

Time Completed: 1320 Total Purge: — Units: —

Field Measurements:

Time (24-hour)	Amount Purged (L)	pH	COND. (µS/cm) mS	TURB. (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)	Flow Rate (mL/min)
1310	—	7.42	0.92	49.9	5.16	19.4	24.9	~6 in	—

Flow Rate: _____

Pump Controller Setting: _____

General Comments:

+ Diss. Metals (>10 NTU)

Water Sample Collection Field Data Sheet

Site Name: GHHI Well I.D.: SG-07

Sample I.D. (match bottle and COC form exactly): SG-07

Personnel: E. Davis Ray

Date: 4/23/26 Static Depth to Water (ft, btoc): —

Date/Time Sample Collected (match bottle and COC form exactly): 4/23/26 1400

Sample Method: Grab

Water level meter, pump, and tubing decontaminated prior: (Yes) No

Sample QC: Field Duplicate Yes (No) Duplicate Sample ID: _____

Sample QC: Equipment Blank Yes (No) Equip Blank Sample ID: _____

Well Purging Data (Fill in All Blanks)

Depth of Sample Collection (pump intake depth; ft, btoc): ~6 inches

Time Completed: 1405 Total Purge: — Units: —

Field Measurements:

Time (24 hour)	Amount purged (L)	pH	SPC (mS/cm)	TURB (NTU)	DO (mg/L)	TEMP (C°)	ORP (mV)	Water Depth (ft, btoc)
1355	—	7.96	0.499	9.3	7.15	19.9	-13.8	~6 inch

Flow Rate: _____

Pump Controller Setting: _____

General Comments:

Project: Grand Haven Harbor Island **Date: 4/20/2026**

Personnel: F. Davis Ray

Well ID	Time	TOC Elevation (ft amsl)	Total Depth (ft btoc)	Well Type	Well Diameter (inches)	Well Pad	Prior Measurement (ft btoc)	Current Mesaurement (ft btoc)	Additional Comments
MW-01R	1502	588.45	12.17	Stickup	2	Fair	7.98	5.25	
MW-01RB	1504	588.59	34.20	Stickup	2	Good	10.27	8.64	
MW-02	1447	595.64	23.33	Stickup	2	Fair	17.23	15.48	
MW-03	1136	593.08	20.30	Stickup	2	Fair	14.59	13.18	
MW-04	1333	591.49	17.97	Stickup	2	Fair	12.90	10.70	
MW-04R	1414	588.90	18.37	Stickup	2	Good	10.87	8.86	
MW-05	1430	587.62	11.87	Stickup	2	Fair	7.63	5.14	
MW-06	1513	590.40	16.75	Stickup	2	Fair	10.05	7.85	
MW-07	1345	586.49	18.90	Stickup	2	Fair	7.94	6.59	
MW-08	1535	585.34	12.11	Stickup	2	Fair	6.24	5.47	
MW-09	1450	589.52	15.23	Stickup	2	Fair	11.22	9.45	
MW-09B	1452	589.76	39.10	Stickup	2	Good	11.71	10.16	
MW-10	1458	586.73	13.00	Stickup	2	Fair	7.37	6.60	
MW-11	1508	595.27	18.52	Stickup	2	Fair	14.90	12.61	
MW-12	1427	588.03	11.47	Stickup	2	Fair	7.98	3.63	
PZ-13	1405	585.94	12.51	Stickup	2	Fair	7.61	5.96	
PZ-14	1407	586.31	11.73	Stickup	2	Fair	7.66	4.75	
PZ-15	1320	592.38	21.25	Stickup	2	Fair	13.32	11.71	
PZ-15B	1321	591.86	38.18	Stickup	2	Good	13.60	12.09	
MW-16	1315	584.91	11.42	Stickup	2	Fair	7.58	5.04	
MW-17	1356	587.02	11.34	Stickup	2	Fair	7.72	5.53	
MW-18	1438	587.22	11.37	Stickup	2	Fair	7.37	5.87	
MW-19	1440	585.86	11.62	Stickup	2	Fair	6.41	5.61	
MW-20	1350	585.74	11.15	Stickup	2	Fair	6.23	5.80	
PZ-21	1645	583.32	-	Stickup	2	Fair	-	-	Inaccessible
PZ-22	1650	583.42	-	Stickup	2	Fair	4.46	-	inaccessible
PZ-23	1258	587.21	11.58	Stickup	2	Fair	8.69	6.81	
PZ-24	1222	587.25	12.29	Stickup	2	Fair	8.11	6.22	
PZ-25	1255	586.37	11.30	Stickup	2	Fair	8.09	6.34	
PZ-26	1220	586.27	11.33	Stickup	2	Fair	6.56	4.86	
MW-27	1215	585.09	11.73	Stickup	2	Fair	5.36	4.06	
MW-28	1605	588.07	12.27	Stickup	2	Fair	9.18	8.11	
PZ-29	1543	583.49	12.18	Stickup	2	Fair	4.20	3.38	
MW-30	1529	585.80	11.35	Stickup	2	Fair	6.41	4.87	
MW-31	1519	585.73	11.76	Stickup	2	Fair	5.83	4.43	
MW-32	1527	586.26	11.68	Stickup	2	Fair	6.95	5.24	
MW-33	1150	582.81	-	Flush	2	Fair	2.43	-	Underwater (~4.5 inches above TOC)
MW-34	1155	584.37	13.43	Flush	2	Fair	5.13	3.42	
MW-35	1135	589.72	11.66	Flush	2	Fair	8.97	5.31	
MW-36	1358	589.62	12.54	Stickup	2	Fair	9.71	7.13	
MW-37	1400	589.62	12.97	Stickup	2	Fair	10.44	7.72	
MW-38	1423	590.51	13.39	Stickup	2	Fair	11.58	8.41	
MW-39	1615	587.36	11.17	Stickup	2	Fair	8.04	5.51	
MW-40	1618	586.78	10.45	Stickup	2	Fair	7.06	4.95	
MW-41	1456	588.37	13.07	Stickup	2	Fair	9.93	8.84	
MW-42	1532	585.71	11.25	Stickup	2	Fair	6.82	5.62	
MW-43	1347	585.49	11.38	Stickup	2	Fair	6.04	5.14	
MW-44	1225	587.15	13.34	Stickup	2	Good	7.84	6.92	
MW-44B	1227	587.17	47.21	Stickup	2	Good	14.21	7.90	
SG-01 Gauge	1455	579.90	-	Staff Gauge	-	N/A	-	-	Dry
SG-02 Transducer	1635	584.39		Stickup	2	N/A	3.73	2.32	
SG-02 Gauge	1523	578.67	-	Staff Gauge	-	N/A	1.80	3.27	
SG-03 Gauge	1517	580.10	-	Staff Gauge	-	N/A	-	1.82	
SG-04R Transducer	1630	585.05		Stickup	2	N/A	-	2.66	
SG-04R Gauge	1432	579.85	-	Staff Gauge	-	N/A	-	2.49	
SG-05 Transducer	1638	580.71		Stickup	2	N/A	1.31	1.19	
SG-05 Gauge	1355	580.10	-	Staff Gauge	-	N/A	-	-	Dry

Project: Grand Haven Harbor Island **Date: 4/20/2026**

Personnel: F. Davis Ray

Well ID	Time	TOC Elevation (ft amsl)	Total Depth (ft btoc)	Well Type	Well Diameter (inches)	Well Pad	Prior Measurement (ft btoc)	Current Mesaurement (ft btoc)	Additional Comments
SG-06	1540	580.66	-	Stickup	2	N/A	-	-	Dry
SG-07 Transducer	1700	582.64		Stickup	2	N/A	-	3.56	
SG-07 Gauge	1331	577.44	-	Staff Gauge	-	N/A	1.10	1.99	
STW-1 DP	1554	582.56		Stickup	2	N/A	-	3.31	
STW-1 SW	1552	582.90		Stickup	2	N/A	-	-	Dry
STW-1 Gauge (offshore)	1550	580.95	-	Staff Gauge	-	N/A	-	1.35	1.3 to 1.4 ft
STW-2 PVC	1305	586.20	-	Stickup	2	N/A	8.24	6.74	
STW-2 STEEL	1310	584.78	-	Stickup	2	N/A	-	5.17	
STW-3	1420	592.46	-	Stickup	2	N/A	14.14	13.03	
SG-07 Bridge	1330	586.85	-	Survey Marker	-	N/A	-	7.30	
STW-2 PVC Rail	1307	586.57	-	Survey Marker	-	N/A	8.35	7.08	
STW-2 PVC Toeboard	1309	583.36	-	Survey Marker	-	N/A	-	3.90	
STW-2 STEEL Rail	1312	586.63	-	Survey Marker	-	N/A	-	7.05	
STW-2 STEEL Toeboard	1314	583.61	-	Survey Marker	-	N/A	-	4.01	
STW-3 Floor Grate	1422	589.07	-	Survey Marker	-	N/A	-	9.90	Yellow frame (above floor grate)
PW-1	1510	593.35	39.65	Stickup	6	N/A	-	13.19	Pump test well

Appendix C

Data Validation Reports

Data Verification & Validation Report

Grand Haven-Harbor Island

Sampling Event (dates and purpose): Quarterly Assessment Monitoring

Data Package Number: 26D1138, 26D1139
Data Validator: Andrew Byks

Lab Report Date: 5/12/2026, 5/29/2026
Data Validation Completion Date: 6/12/2026

General Overall Assessment:
_____ Data are usable without qualification.
__X__ Data are usable with qualification (as noted below).
_____ Some or all data are unusable (as noted below).

Wells planned for sampling:

Unit 3A/B	Unit 1/2	Well Designation	Well ID	Planned for Sampling
✓	✓	Nature & Extent	MW-01R	X
✓	✓	Nature & Extent	MW-01RB	X
✓		Point of Compliance	MW-02	X
✓		Point of Compliance	MW-03	X
✓		Point of Compliance	MW-04	X
✓		Point of Compliance	MW-04R	X
	✓	Point of Compliance	MW-06	X
	✓	Nature & Extent	MW-07	X
	✓	Point of Compliance	MW-08	X
✓	✓	Nature & Extent	MW-09	X
✓	✓	Nature & Extent	MW-10	X
✓		Point of Compliance	MW-11	X
✓		Point of Compliance	MW-12	X
✓		Nature & Extent	MW-13	X
	✓	Nature & Extent	MW-16	X
	✓	Nature & Extent	MW-17	X
	✓	Point of Compliance	MW-18	X
	✓	Point of Compliance	MW-19	X
	✓	Point of Compliance	MW-20	X
✓	✓	Background	MW-27	X
	✓	Nature & Extent	MW-28	X
	✓	Point of Compliance	MW-30	X
	✓	Point of Compliance	MW-31	X
✓	✓	Nature & Extent	MW-32	X
✓	✓	Background	MW-33	X
✓	✓	Background	MW-34	X
	✓	Nature & Extent	MW-36	X
	✓	Nature & Extent	MW-37	X
✓		Nature & Extent	MW-38	X
✓		Nature & Extent	MW-39	X
✓	✓	Nature & Extent	MW-41	X
	✓	Nature & Extent	MW-42	X
	✓	Nature & Extent	MW-43	X
✓	✓	Surface Water	SG-02	X
✓	✓	Surface Water	SG-04R	X
✓	✓	Surface Water	SG-05	X
✓	✓	Surface Water	SG-07	X

Data Summary

Sample ID	Matrix	Lab ID	Date Collected	Metals	Mercury	Part 115 Metals	Alkalinity/ Anions	TDS TSS	Rad-226 Rad-228	Diss. Metals
MW-03	GW	26D1138-01	4/20/2026	X	X	X	X	X	X	
MW-04	GW	26D1138-02	4/20/2026	X	X	X	X	X	X	
MW-04R	GW	26D1138-03	4/20/2026	X	X	X	X	X	X	
MW-12	GW	26D1138-04	4/20/2026	X	X	X	X	X	X	
MWT-12	GW	26D1138-05	4/20/2026	X	X	X	X	X	X	
LLHGTB-04202026	AQ	26D1138-06	4/20/2026		X					
MW-38	GW	26D1138-07	4/21/2026	X	X	X	X	X	X	
MW-37	GW	26D1138-08	4/21/2026	X	X	X	X	X	X	
MW-36	GW	26D1138-09	4/21/2026	X	X	X	X	X	X	
MW-13	GW	26D1138-10	4/21/2026	X	X	X	X	X	X	
MW-17	GW	26D1138-11	4/21/2026	X	X	X	X	X	X	
MW-07	GW	26D1138-12	4/21/2026	X	X	X	X	X	X	
LLHGTB-04212026	AQ	26D1138-13	4/21/2026		X					
MW-08	GW	26D1138-14	4/21/2026	X	X	X	X	X	X	
MWT-08	GW	26D1138-15	4/21/2026	X	X	X	X	X	X	
MW-30	GW	26D1138-16	4/21/2026	X	X	X	X	X	X	
MW-31	GW	26D1138-17	4/21/2026	X	X	X	X	X	X	
MW-32	GW	26D1138-18	4/21/2026	X	X	X	X	X	X	
MW-42	GW	26D1138-19	4/21/2026	X	X	X	X	X	X	
MW-02	GW	26D1138-20	4/22/2026	X	X	X	X	X	X	
MW-09	GW	26D1138-21	4/22/2026	X	X	X	X	X	X	
MW-11	GW	26D1138-22	4/22/2026	X	X	X	X	X	X	
MW-06	GW	26D1138-23	4/22/2026	X	X	X	X	X	X	
MW-01RB	GW	26D1138-24	4/22/2026	X	X	X	X	X	X	
MW-01R	GW	26D1138-25	4/22/2026	X	X	X	X	X	X	
MW-41	GW	26D1138-26	4/22/2026	X	X	X	X	X	X	
MW-20	GW	26D1138-27	4/22/2026	X	X	X	X	X	X	
MW-43	GW	26D1138-28	4/22/2026	X	X	X	X	X	X	
MW-27	GW	26D1138-29	4/22/2026	X	X	X	X	X	X	
MW-34	GW	26D1138-30	4/22/2026	X	X	X	X	X	X	
MW-18	GW	26D1138-31	4/22/2026	X	X	X	X	X	X	
LLHGTB-04222026	AQ	26D1138-32	4/22/2026		X					
MW-10	GW	26D1138-33	4/23/2026	X	X	X	X	X	X	
MWT-10	GW	26D1138-34	4/23/2026	X	X	X	X	X	X	
MW-19	GW	26D1138-35	4/23/2026	X	X	X	X	X	X	
MW-28	GW	26D1138-36	4/23/2026	X	X	X	X	X	X	
MW-39	GW	26D1138-37	4/23/2026	X	X	X	X	X	X	
MW-16	GW	26D1138-38	4/23/2026	X	X	X	X	X	X	
MW-33	GW	26D1138-39	4/23/2026	X	X	X	X	X	X	
SG-02	SW	26D1138-40	4/23/2026	X	X	X	X	X	X	
SG-04R	SW	26D1138-41	4/23/2026	X	X	X	X	X	X	
SG-05	SW	26D1138-42	4/23/2026	X	X	X	X	X	X	
SG-07	SW	26D1138-43	4/23/2026	X	X	X	X	X	X	
LLHGTB-04232026	AQ	26D1138-44	4/23/2026		X					

Other analytes requested for analysis: Na, Mg, K, HCO_3, CO_3, hardness

Any planned sampling or analysis NOT completed? If yes, explain:

Data Verification & Validation Checklist

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Field Data							
Sample Collection Field Forms	X		Purging performed as required in the Groundwater Monitoring Plan	X			
Field Calibration Records	X		Field instruments calibrated daily according to manufacturer specifications	X			
Chain of Custody	X		Accurately reflect samples, collection dates/times, analyses, bottles, etc.	X			
Field decontamination documentation	X		Record of decontamination for non-dedicated sampling equipment	X			
Drilling logs	X		N/A	-	-	-	
Well construction logs	X		N/A	-	-	-	
Well development field forms	X		N/A	-	-	-	
Analytical Data Package							
Cover Sheet	X		N/A	-	-	-	
Case Narrative	X		Summarizes sample receipt and any exceptions to QC acceptance criteria	X			
Internal Laboratory Chain of Custody forms	X		Analyses as requested; accurate transcription of field COC	X			
Sample Chronology and Consistency	X		Accurate representation of dates, times of receipt, preparation, and analysis	X			
Communication Records with Lab	X		E-mail records saved with final report	X			
EDD Format Consistency	X		EDD format and content as requested	X			
Sample Identification, Results Nomenclature, and Data Qualifier Consistency	X		All included in final report	X			
Method Detection Limit Consistency	X		MDLs consistent between samples		X		Dilution varies between samples.
Instrument Calibration Records	X		Present and no nonconformance noted	X			
Laboratory Report Complete	X		Includes QC component	X			
Holding Times	X		Analyses performed within allowed holding time		X		pH required qualification in 40 samples.

Review Category	Verify Complete		Validation Criteria	Criteria Met?			Description of Nonconformance and Qualification (if applicable)
	Yes	No		Yes	No	N/A	
Method	X		Method as requested	X			
Reporting Limits	X		RLs as requested	X			RLs for the following were not met: As – 1 sample (result > RL) B – 16 samples (results > RL) Mg – 2 samples (results > RL) Na – 7 samples (results > RL) Sulfate – 2 samples (results > RL) TDS – 40 samples (results > RL) TSS – 33 samples (7 ND results)
			MDLs<RLs	X			MDLs = RLs for TSS
			MDLs<GPS	X			
QC Validation							
Evaluate Accuracy							
Matrix Spike (Recovery)	X		See "Minimum QC Procedures for Project Parameters" table	X			
Laboratory Control Sample (Recovery)	X		See "Minimum QC Procedures for Project Parameters" table	X			
Evaluate Precision							
Matrix Spike Duplicate (RPD)	X		See "Minimum QC Procedures for Project Parameters" table	X			
Field Duplicate (RPD)	X		RPD ≤ 20%		X		See Below.
Evaluate Representativeness							
Equipment Blanks (if applicable)	N/A		Non-detect (<RL)	X			
QC Verification							
Verify Instrument Calibration & Analytical Process							
Initial Calibration Verification	X		Laboratory-determined	-	-	-	
Continuing Calibration Verification	X		Laboratory-determined	-	-	-	
Initial Calibration Blank	X		Laboratory-determined	-	-	-	
Continuing Calibration Blank	X		Laboratory-determined	-	-	-	
Serial Dilutions	X		Laboratory-determined	-	-	-	
Post-Digestion Spikes	X		Laboratory-determined	-	-	-	
Internal Standards	X		Laboratory-determined	-	-	-	
Laboratory Duplicate (RPD)	X		Laboratory-determined	-	-	-	
Method Blanks	X		Laboratory-determined	-	-	-	
Evaluate Completeness (# usable measurements/ # unusable measurements)							
Completeness	X		100%	X			

Comments:

pH required qualification as estimated due to analysis outside of the holding time in 40 samples.

The RPDs of mercury, nickel, TSS, and Radium-226 were outside of control limits for the MW-08 and MWT-08 parent sample and field duplicate pair. Mercury required qualification as estimated with high bias (J+) in parent sample MW-08 and as estimated with low bias (J-) in field duplicate MWT-08. Nickel, TSS, and Radium-226 required qualification as estimated with low bias (J-) in parent sample MW-08 and as estimated with high bias (J+) in field duplicate MWT-08.

The RPD of Radium-226 between parent sample MW-10 and field duplicate MWT-10 was outside of control limits. Radium-226 required qualification as estimated with high bias (J+) in parent sample MW-10 and as estimated with low bias (J-) in field duplicate MWT-10.

The RPDs of cadmium, Radium-226, Radium-228, and Combined Radium 226+228 were outside of control limits for the MW-12 and MWT-12 parent sample and field duplicate pair. Cadmium, Radium-226, Radium-228, and Combined Radium 226+228 required qualification as estimated with high bias (J+) in parent sample MW-12 and as estimated with low bias (J-) in field duplicate MWT-12.

Cobalt was detected in parent sample MW-12, but was not detected in field duplicate MWT-12. Cobalt required qualification as estimated with high bias (J+) in parent sample MW-12 and as estimated but not detected (UJ) in field duplicate MWT-12.

Appendix D

Analytical Data Tables

Sample Location:		MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R	MW-01R
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/29/2022	1/3/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/18/2024	10/16/2024	2/25/2025	4/20/2025	8/13/2025	10/22/2025	2/19/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	2.39	3.06	2.731	2.595	3	3.1	3.23	3.22	3.13	2.51	2.87	3.13	2.89	2.97	2.71	3.09	3.271	2.99	2.96
Dissolved Oxygen	mg/L	0.08	0.05	0.07	0.28	0.11	0.03	0.01	0.01	0.03	0.22	1.35	0.01	0.01	0.02	0.05	0.06	0.13	0.22	0.09
Oxidation Reduction Potential	mV	42.3	3.6	-155.6	-185.5	-202.3	-210.1	-163.8	-165.1	-126.2	-57.3	-197.9	-316.1	7.7	-80.5	-203.4	-23.4	-274	-212.6	5.6
pH	su	7.74	6.02	7.75	7.76	7.75	7.8	7.81	7.68	7.71	7.52	7.58	7.73	7.72	7.75	7.81	7.72	7.63	7.79	7.57
Temperature	deg c	12.5	9	6.9	5.9	7.2	10.7	13.5	17.2	16.1	6.1	7.5	16.3	17	7.4	8.6	18.4	16.3	8.3	9.1
Turbidity	NTU	0.02	0.26	0.17	0.02	0.02	0.02	0.02	1.33	0.95	1.79	0.02	0.02	1.36	0.02	0.02	1.39	1.03	0.02	0.96
Appendix III																				
Boron	mg/L	100	110	73	70	78	110	150 J+	140	160	38	64	150	130	120	100	140	160	110	55
Calcium	mg/L	240	200	290	310	280	240	210	160	130	400	350	160	160	190	260	170	140	230	420
Chloride	mg/L	150	160	52	120	130	150	170	180	210	49	67	170	150	120	94	130	150	96	46
Fluoride	mg/L	14	14	9.5	8.1	8.8	10	15	14	14	4.8	6.7	15	16	14	11	16	17	13	6.9
Sulfate (as SO4)	mg/L	590	400	350	780	780	540	290	110	8.8	980	810	100	130	310	570	160	47	420	1000
Total Dissolved Solids	mg/L	2400 J-	2300	2200	2100	2400	2400	2400	2400	2600	2200	2300	2500	2300	2400	2300	2400	2500	2300	2500
Appendix IV																				
Antimony	mg/L	0.00033	0.00023 J	< 0.00025 U	0.00034	0.0012	< 0.00050 U	0.00071 J	0.00025	0.00022 J	< 0.00050 U	0.00017 J	0.00018 J	0.00019 J	0.00021 J	0.00018 J	0.00025	0.00032	0.00098	0.0029
Arsenic	mg/L	0.0020	0.0015	0.0013	0.0013	0.00077	0.00073	0.0019 J+	0.0017	0.0013	0.0041	0.0013	0.0014	0.0015	0.0013	0.0013	0.0015	0.0012	0.0021	0.0015
Barium	mg/L	0.30	0.30	0.25	0.22	0.21	0.29	0.29	0.38	0.56	0.54	0.20	0.33	0.42	0.38	0.40	0.55	0.81	0.48	0.22
Beryllium	mg/L	0.00021 J	0.00032	0.00020 J	0.00052 J	0.00012 J	0.00020 J	0.00036 J+	0.00035	0.00026	0.00015 J	< 0.000052 U	0.00013 J	< 0.000052 U	0.00012 J	0.00017 J	0.00031	0.00031	0.00013 J	0.00011 J
Cadmium	mg/L	0.00011 J	0.000062 J	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	0.00034 J+	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00014 J	0.00030	0.0019
Chromium, Total	mg/L	0.0013	0.0024	0.0016	0.0016	0.0013	0.0019	0.0043	0.0037	0.0022	0.022	0.0013	0.0033	0.0021	0.0019	0.0017	0.0025	0.0028	0.0018	0.0015
Cobalt	mg/L	0.0011	0.0012	0.0011	0.0023	0.0017	0.00081	0.0045 J+	0.0016	0.001	0.0040	0.00064	0.0011	0.00095	0.0011	0.00098	0.0012	0.0020	0.023	0.084
Fluoride	mg/L	14	14	9.5	8.1	8.8	10	15	14	14	4.8	6.7	15	16	14	11	16	17	13	6.9
Lead	mg/L	0.0014	0.00082	< 0.0011 U	0.00044 J	< 0.0011 U	0.00080 J	0.0053 J+	0.0010 J	0.00074	0.0017 J	0.00035 J	0.00062 J	0.00069 J	0.00087 J	0.00038 J	0.00063	0.0016	0.0040	0.0075
Lithium	mg/L	2.2	2.8	1.6	1.7	1.5	2.3	3.2	3.3	3.4	0.77	1.5	2.9	2.6	2.7	2.1	3.1	3.0	2.5	1.3
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000052	0.00000087	0.0000031	0.0000063
Molybdenum	mg/L	0.0011 J	0.00062 J	0.00076 J	0.0020	< 0.0031 U	0.00033 J	0.00077 J+	0.00082 J	0.00074 J	0.0056	0.0016	0.00037 J	0.00034 J	0.00068 J	< 0.00025 U	0.00064 J	0.00038 J	0.0017	0.0058
Radium 226 and 228	pCi/L	< 0.656 UJ	< 0.828 U	1.06	1.28	< 0.737 U	< 1.1 U	0.601	1.26	< 0.674 U	1.09	< 0.682 U	< 1.23 U	1.48	< 0.84 U	< 0.914 U	< 0.957 U	< 0.982 U	< 0.973 U	< 1.08 U
Radium-226	pCi/L	< 0.176 UJ	< 0.125 U	< 0.139 U	< 0.212 U	< 0.233 U	< 0.322 U	< 0.164 U	0.152	< 0.182 U	< 0.137 U	< 0.21 U	0.218	< 0.268 U	0.32	< 0.306 U	< 0.454 U	< 0.312 U	< 0.196 U	< 0.254 U
Radium-228	pCi/L	< 0.656 UJ	< 0.828 U	0.982	1.23	< 0.737 U	< 1.1 UJ	< 0.534 U	1.11	< 0.674 U	1.05	< 0.682 U	< 1.23 U	1.37	< 0.84 U	< 0.914 U	< 0.957 U	< 0.982 U	< 0.973 U	< 1.08 U
Selenium	mg/L	0.00060	0.00059	0.00058	0.00097	0.00056	0.00030 J	0.00076 J+	0.00066	0.00073	0.0018	0.00050	0.00079	0.00073	0.00064	0.00045 J	0.00068	0.00074	0.00078	0.0026
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	3.0 J	2.0 J	5.0	2.0 J	2.0 J	< 4.0 U	2.0 J	3.0 J	< 4 U	< 4.0 U	< 4.0 U	< 4.0 U	5.0	< 4.0 U	< 4.0 U	< 4.0 U	< 4.3 U	< 4.1 U	27
Michigan CCR Part 115																				
Copper	mg/L	0.00027	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0013	0.00045	0.00029	0.0010	0.00029	0.00029	0.00030	0.00042	< 0.00020 U	0.00031	0.00035	0.0014	0.0028
Iron	mg/L	0.75	1.1	0.55	0.50	0.59	0.79	0.48	0.16	0.22	0.85	1.0	0.088	0.093	0.13	0.090	0.059	0.16	1.4	1.1
Nickel	mg/L	0.0015	0.0025	0.0016	0.0026	0.0018	0.0013	0.0053	0.0027	0.0021	0.022	0.0012	0.0020	0.0019	0.0018	0.0018	0.0023	0.0030	0.018	0.068
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00069 J	0.00067 J	< 0.00062 U	< 0.00062 U	0.0013	0.0016	0.0046	0.0035	0.0018	0.0018	0.0014	0.0041	0.0020	0.0019	0.0021	0.0035	0.0037	0.0021	0.0024
Zinc	mg/L	0.014	0.0012	0.0012	0.0018	0.013	< 0.0012 U	0.0085	0.0012	0.0013	0.0016	< 0.0012 U	< 0.0012 U	0.023	0.033	0.0012	0.028	0.0032	0.052	0.14
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	1100	1200	870	830	920	1100	1300	1400	1700	560	820	1500	1400	1300	1000	1500	1600	1300	810
Carbonate Alkalinity	mg/L	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	110	92	110	110	120	110	100	96	100	110	120	100	99	120	110	90	110	120	110
Potassium	mg/L	69	66	50	43	60 J	65	89	90	98	34	50	86	86	85	64	91	100	84	48
Sodium	mg/L	330	370	250	240	280	380	430	430	500	140	220	430	400	410	310	440	470	370	200
Total Alkalinity	mg/L	1100	1200	870	830	920	1100	1300	1400	1700	560	820	1500	1400	1300	1000	1500	1600	1300	810

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-01RB	MW-01RB	MW-01RB
Compliance Phase:		Development Sa	Assessment	Assessment
Sample Date:		12/22/2025	2/19/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater
Constituent	**Unit**			
Field Parameters				
Conductivity	mS/cm	0.868	1.18	1.13
Dissolved Oxygen	mg/L	0.01	0.28	0.24
Oxidation Reduction Potential	mV	-117.5	-136.4	-115.1
pH	su	7.06	7.12	7.11
Temperature	deg c	12.1	12.5	12.8
Turbidity	NTU	0.02	2.05	0.02
Appendix III				
Boron	mg/L	3.9	2.8	3.2
Calcium	mg/L	140	140	140
Chloride	mg/L	53	73	43
Fluoride	mg/L	0.60	0.59	0.50
Sulfate (as SO4)	mg/L	17	15	11
Total Dissolved Solids	mg/L	650	640	640
Appendix IV				
Antimony	mg/L	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00078	0.00058	0.00046 J
Barium	mg/L	0.27	0.28	0.29
Beryllium	mg/L	< 0.000052 U	0.000083 J	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00047	0.00039	0.00023 J
Cobalt	mg/L	0.00064	0.00078	0.00037 J
Fluoride	mg/L	0.60	0.59	0.50
Lead	mg/L	0.00031 J	0.00044 J	< 0.00010 U
Lithium	mg/L	0.053	0.052	0.047
Mercury	mg/L	0.00000067	0.00000083	< 0.00000016 U
Molybdenum	mg/L	0.00058 J	0.00058 J	0.00048 J
Radium 226 and 228	pCi/L	2.48	< 1.52 U	1.38
Radium-226	pCi/L	1.02	0.763	< 0.197 U
Radium-228	pCi/L	1.46	< 1.52 U	1.2
Selenium	mg/L	0.00079	< 0.00010 U	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	14	5.0	12
Michigan CCR Part 115				
Copper	mg/L	--	0.00041	< 0.00020 U
Iron	mg/L	11	9.5	10
Nickel	mg/L	0.00048 J	0.00064 J	0.00022 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00078 J	0.00061 J	0.00042 J
Zinc	mg/L	0.024	0.028	0.024
Additional Parameters				
Bicarbonate Alkalinity	mg/L	--	530	530
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U
Magnesium	mg/L	--	34	32
Potassium	mg/L	--	10	11
Sodium	mg/L	--	56	43
Total Alkalinity	mg/L	--	530	530

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/4/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/17/2024	10/15/2024	2/25/2025	4/19/2025	8/13/2025	10/22/2025	2/17/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	3.36	4.1	3.07	2.616	3.66	3.524	4.17	4.07	4.21	3.4	3.89	4.42	4.2	5.22	3.03	3.86	4.08	5.49	3.35
Dissolved Oxygen	mg/L	0.28	0.49	0.2	0.41	0.08	0.06	0.07	0.1	0.03	0.26	0.15	0.45	0.85	0.99	0.38	0.04	0.08	0.07	0.1
Oxidation Reduction Potential	mV	89.4	-215.7	-185.2	-169.9	-135.7	-138.9	-137.4	-133.8	-166.8	-146.1	-140.3	-135.6	-158.6	104.7	-100.8	-154.8	-159.6	-163.3	-167.7
pH	su	7.11	7.06	7.33	7.35	7.13	7.45	7.29	7.21	7.11	7.25	7.26	7.13	7.15	7.11	7.15	7.18	7.2	7.28	7.17
Temperature	deg c	12.8	12	11.2	9.6	10.2	11.7	12.1	14	15	10.3	11.4	15	13.4	10.7	10.3	15.4	13.3	10.8	11.3
Turbidity	NTU	0.02	0.02	0.02	0.49	3.66	5.05	6.89	3.3	8.78	5.11	9.03	0.02	9.7	4.15	0.02	15.5	9.1	1.9	5.13
Appendix III																				
Boron	mg/L	88	86	100	98	73	95	110 J+	99	110	100	110	110	110	170	170	120	59	190	72
Calcium	mg/L	210	180	210	240	190	210	210	180	190	220	210	200	190	180	200	170	190	170	210
Chloride	mg/L	150	140	67	140	150	140	140	130	140	140	140	160	150	150	150	160	150	150	120
Fluoride	mg/L	9.2	10	4.5	9.4	8.7	9.2	10	9.7	9.7	9.5	10	10	11	16	13	12	13	15	8.3
Sulfate (as SO4)	mg/L	0.86 J	2.2 J	< 0.41 U	1.1 J	< 0.41 U	< 0.41 U	< 0.41 U	0.93 J	< 0.41 U	< 0.41 U	< 5.5 U	< 2.2 U	1.8 J	< 2.2 U	< 2.2 U	1.3 J	1.9 J	1.6 J	51
Total Dissolved Solids	mg/L	1700	1800	1900	1700	1700	1800	2100 J	1900	1600	1800	2000	2100	2000	2600	2000	2000	2200	2500	1600
Appendix IV																				
Antimony	mg/L	0.00015 J	0.00016 J	< 0.00025 U	0.00019 J	0.00063 J	< 0.00050 U	0.00024 J	0.00018 J	0.00029	< 0.00010 U	0.00024 J	0.00015 J	0.00019 J	0.00027	0.00026	0.00014 J	0.00022 J	0.00044	0.00011 J
Arsenic	mg/L	0.0082	0.0076	0.0086	0.0078	0.0083	0.012	0.0096 J+	0.0086	0.0074	0.00044 J	0.0075	0.0061	0.0066	0.0095	0.0059	0.0055	0.0065	0.010	0.0054
Barium	mg/L	0.51	0.53	0.55	0.51	0.38	0.48	0.47	0.45	0.42	0.73	0.46	0.33	0.32	0.35	0.50	0.45	0.52	0.52	0.47
Beryllium	mg/L	0.00028	0.00034	0.00042	0.00029	0.00015 J	0.00021 J	0.00032 J+	0.00043	0.00052	< 0.000052 U	0.00012 J	0.00019 J	0.00018 J	0.00022 J	0.00032	0.00016 J	0.00026	0.00028	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	0.000046 J	< 0.00016 U	0.000041 J	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00049	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000078 J	0.000078 J	< 0.000075 U	< 0.000075 U	0.000093 J	< 0.000075 U
Chromium, Total	mg/L	0.022	0.054	0.057	0.046	0.019	0.030	0.068	0.054	0.032	0.00038	0.039	0.047	0.033	0.063	0.068	0.033	0.045	0.066	0.014
Cobalt	mg/L	0.0038	0.0060	0.0080	0.0066	0.0031	0.0039	0.0089 J+	0.0076	0.0063	0.00024 J	0.0061	0.0063	0.0055	0.0097	0.0095	0.0056	0.0085	0.012	0.0034
Fluoride	mg/L	9.2	10	4.5	9.4	8.7	9.2	10	9.7	9.7	9.5	10	10	11	16	13	12	13	15	8.3
Lead	mg/L	0.0010	0.0024	0.0030	0.0027	0.0018 J	0.0041	0.0039 J+	0.0017	0.002	< 0.00010 U	0.0056	0.0023 J	0.0020 J	0.0060	0.0050	0.0012 J	0.0023	0.0051	0.00045 J
Lithium	mg/L	1.2	1.5	1.5	1.6	0.87	1.2	1.7	1.4	1.2	1.4	1.5	1.3	1.3	2.3	2.0	1.5	1.5	2.5	1.0
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000054	0.0000023	0.0000016	0.0000032	0.0000012
Molybdenum	mg/L	0.0052	0.0062	0.011	0.011	0.0088	0.0064	0.0062 J+	0.0052	0.0051	0.0038	0.0052	0.0045	0.0048	0.016	0.013	0.0052	0.0072	0.029	0.0089
Radium 226 and 228	pCi/L	< 2.18 U	< 2.8 U	3.35	1.56	< 0.686 U	1.67	1.67	2.45	1.16	1.95	2.24	< 1.21 U	1.33	--	< 1.1 U	1.87	2.35	< 2.69 U	1.92
Radium-226	pCi/L	< 0.547 U	0.781	0.642	0.398	< 0.302 U	0.58	0.714	0.743	< 0.354 U	1.07	< 0.432 U	0.488	0.772	--	0.565	< 0.813 U	0.732	1.03	0.559
Radium-228	pCi/L	< 2.18 UJ	< 2.8 U	< 3.21 U	< 1.24 U	< 0.686 U	< 1.2 UJ	0.957	1.71	< 0.897 U	0.882	1.83	< 1.21 U	< 1.1 U	--	< 1.1 U	1.35	< 1.94 U	< 2.69 U	1.36
Selenium	mg/L	0.0010	0.0012	0.0012	0.00095	0.00050	0.0010	0.0014 J+	0.0012	0.0018	0.00056	0.0014	0.0014	0.0014	0.0023	0.0017	0.0012	0.0018	0.0022	0.00070
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00062	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	67	58	58	56	100	90	20	16	6.1	59	40	53	6.0	8.0	70	18	6.3	< 4.1 U	100
Michigan CCR Part 115																				
Copper	mg/L	0.00081	0.0018	0.0025	0.0020	0.0011	0.0014	0.0026	0.0018	0.0025	0.00023 J	0.0028	0.0020	0.0015	0.0044	0.0037	0.0010	0.0023	0.0047	0.0013
Iron	mg/L	23	22	24	30	27	27	24	20	18	31	25	22	19	21	28	22	18	21	28
Nickel	mg/L	0.015	0.023	0.042	0.035	0.017	0.014	0.025	0.022	0.018	0.00093 J	0.025	0.018	0.018	0.053	0.042	0.023	0.034	0.074	0.021
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.0014	0.0036	0.0035	0.0032	0.0013	0.0026	0.0067	0.0049	0.0044	< 0.00062 U	0.0062	0.0057	0.0035	0.0049	0.0069	0.0027	0.0050	0.0055	0.0012
Zinc	mg/L	0.023	0.0030	0.0033	0.0022	0.025	0.0019	0.0027	0.0041	0.0036	0.0020	0.0033	0.0024	0.020	0.036	0.0036	0.0016	0.0027	0.044	0.034
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	1900	2000	1900	1800	1800	1900	460	2100	2300	1800	2000	2200	2200	2700	2100	2300	2400	2900	1700
Carbonate Alkalinity	mg/L	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.39 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	63	59	70	78	68	71	62	58	57	77	68	63	60	56	75	60	55	56	66
Potassium	mg/L	50	44	53	45	41	44	56 J	46	47	50	53	48	48	70	61	49	50	72	40
Sodium	mg/L	250	250	260	260	220	280	320	310	310	280	300	320	310	470	410	320	360	470	230
Total Alkalinity	mg/L	1900	2000	1900	1800	1800	1900	460	2100	2300	1800	2000	2200	2200	2700	2100	2300	2400	2900	1700

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/4/2023	2/7/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/14/2024	4/7/2024	7/18/2024	10/15/2024	2/26/2025	4/21/2025	8/13/2025	10/22/2025	2/19/2026	4/20/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	0.344	3.52	3.43	2.459	3.15	3.08	3.19	3.19	3.03	2.98	2.81	2.87	2.69	2.7	2.6	2.367	2.957	2.59	2.59
Dissolved Oxygen	mg/L	0.16	0.26	0.2	0.21	0.03	0.01	0.05	0.09	0.06	0.2	0.02	0.02	0.31	0.09	0.12	0.14	0.25	0.46	0.1
Oxidation Reduction Potential	mV	-180	-139.7	-212.9	-184.2	-92.8	-194.3	-129.6	-110.7	-116.1	-194.1	-220.8	-30.3	-106.1	-49.8	-178.7	-215	-195.7	-158.3	-195
pH	su	7.31	7.32	7.2	7.45	7.26	7.59	7.44	7.31	7.28	7.44	7.46	7.3	7.38	7.33	7.4	7.38	7.28	7.33	7.39
Temperature	deg c	13.3	11.4	9.2	7.3	9.3	11.8	12.5	14.9	14.9	9.6	10.1	15	14	9.3	9.1	16.4	14.3	9.8	9.3
Turbidity	NTU	0.02	0.68	2.4	0.02	1.4	0.02	0.02	0.21	0.26	2.12	0.02	0.02	0.31	0.02	0.02	0.33	0.02	1.92	0.02
Appendix III																				
Boron	mg/L	4.4	3.3	4.2	4.3	3.9	4.1	4.3 J+	4.1	4.3	4.5	3.9	3.9	4.4	3.7	4.5	4.1	4.0	3.7	3.5
Calcium	mg/L	390	290	400	410	360	400	430	350	380	360	350	340	330	320	340	360	350	310	300
Chloride	mg/L	300	190	240	190	150	140	160	170	180	140	99	120	120	110	94	110	130	99	72
Fluoride	mg/L	0.65	1.6	0.62	0.52	0.60	0.54	0.54	0.61	0.6	0.61	0.60	0.62	0.62	0.65	0.70	0.83	0.87	0.76	0.74
Sulfate (as SO4)	mg/L	42	460	230	550	760	690	510	480	380	310	360	310	170	34	240	130	55	29	170
Total Dissolved Solids	mg/L	2200 J-	1700	2300	2300	2300	2300	2300	2300	2200	2000	1900	1900	1800	1700	1700	1800	1700	1600	1600
Appendix IV																				
Antimony	mg/L	0.000087 J	0.000092 J	< 0.00025 U	0.00011 J	0.00045 J	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	0.00016 J	< 0.00010 U	< 0.00010 U	0.00013 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00084	0.0011	0.0012 J	0.0011	0.00050 J	0.00049 J	0.00091 J+	0.00076	0.0011	0.00097	0.0014	0.00077	0.00087	0.0011	0.0013	0.00071	0.00058	0.00066	0.00096
Barium	mg/L	0.43	0.13	0.50	0.30	0.34	0.43	0.38	0.38	0.41	0.42	0.36	0.27	0.27	0.33	0.37	0.37	0.40	0.33	0.35
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.00026 U	0.000053 J	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	0.00015 J	0.000057 J	0.00018 J	0.000054 J	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000074 J	< 0.000052 U	0.000072 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	0.00011 J	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0046	0.0061	0.0049	0.0073	0.0033	0.0037	0.0060	0.0053	0.003	0.0037	0.0052	0.0045	0.0034 J-	0.0034	0.0050	0.0040	0.0035	0.0031	0.0037
Cobalt	mg/L	0.00088	0.00044 J	0.00081 J	0.00097	0.00044 J	0.00050 J	0.0012 J+	0.0011	0.0013	0.00037 J	0.0013	0.00059	0.00061 J-	0.00059	0.00056	0.00070	0.00070	0.00053	0.00086
Fluoride	mg/L	0.65	1.6	0.62	0.52	0.60	0.54	0.54	0.61	0.6	0.61	0.60	0.62	0.62	0.65	0.70	0.83	0.87	0.76	0.74
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00050 U	0.00022 J	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.044	0.065	0.039	0.045	0.037	0.035	0.050	0.041	0.035	0.033	0.029	0.031	0.035	0.031	0.030	0.033	0.030	0.030	0.026
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00024	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000077	0.00000039 J	< 0.00000016 U	0.00000044 J	0.00000058
Molybdenum	mg/L	< 0.00062 U	0.00072 J	< 0.0031 U	< 0.00062 U	< 0.0031 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	0.00085 J	< 0.00025 U	0.0011 J	< 0.00025 U	0.00039 J	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.00067 J	0.0014
Radium 226 and 228	pCi/L	1.92	< 1.32 U	0.75	1.76	0.81	1.38	1.26	0.996	1.34	1.48	1.5	0.786	1.7 J-	0.92	--	1.34	< 1.32 U	< 1.35 U	1.45
Radium-226	pCi/L	0.583	0.526	0.242	< 0.217 U	0.268	0.574	< 0.209 U	0.417	< 0.312 U	0.466	< 0.288 U	0.22	0.348	< 0.16 U	--	0.758	< 0.426 U	0.256	< 0.407 U
Radium-228	pCi/L	1.34	< 1.32 U	< 0.67 U	1.55	< 0.767 U	< 1.15 UJ	1.18	< 0.763 U	1.08	1.02	1.42	< 0.609 U	1.36 J-	0.77	--	< 0.825 U	< 1.32 U	< 1.35 U	1.25
Selenium	mg/L	0.00042 J	< 0.00022 U	< 0.0011 U	0.00040 J	< 0.00022 U	0.00017 J	0.00042 J+	0.00034 J	0.00053	0.00062	0.00049 J	0.00038 J	0.00051	0.00040 J	0.00041 J	0.00036 J	0.00034 J	0.00035 J	0.00029 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 U	0.00018 J	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	4.0	15	4.0	1.0 J	< 4.0 U	< 4.0 U	< 4.0 U	3.0 J	< 4 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.1 U	< 4.2 U	13
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.0010 U	< 0.00020 U	< 0.00020 U	0.00025	0.00030	0.00024 J	0.00091	0.00025	0.0010	0.00030	0.00086 J+	< 0.00020 U	< 0.00020 U	0.00022 J	< 0.00020 U	< 0.00020 U	0.00056
Iron	mg/L	3.7	5.9	2.5	1.6	2.0	0.78	0.31	0.28	0.43	1.4	0.48	0.27	0.12	0.63	1.2	0.098	0.16	0.92	0.98
Nickel	mg/L	0.0016	0.015	< 0.0032 U	0.0018	0.00085 J	0.00087 J	0.0016	0.0015	0.0017	0.00094 J	0.0022	0.0011 J	0.0012 J-	0.0012	0.0014	0.0013	0.0012	0.0013	0.0016
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0012	< 0.00062 U	0.0022	0.0018	0.0015 J-	0.0012	0.0014	0.0015	0.0014	0.0012	0.0016
Zinc	mg/L	0.019	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.018	< 0.0012 U	0.0019	< 0.0012 U	0.002	< 0.0012 U	0.0013	< 0.0012 U	0.013	< 0.0012 U	< 0.0012 U	0.018	0.00059 J	0.025	0.025
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	1800	690	1600	1200	1100	1100	1300	1300	1400	1300	1200	1300	1400	1500	1300	1500	1500	1500	1300
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.31 U	70	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	210	91	220	220	210	220	210	200	200	210	200	190	180	190	200	180	170	160	170
Potassium	mg/L	20	18	20	15	20	17	20	18	18	19	16	17	17	18	17	18	17	16	14
Sodium	mg/L	130	74	120	110	100	110	100	110	100	110	90	89	89	88	92	85	87	78	69
Total Alkalinity	mg/L	1800	690	1600	1200	1100	1100	1300	1300	1400	1300	1200	1300	1400	1500	1300	1500	1500	1500	1300

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/4/2023	2/7/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/14/2024	4/7/2024	7/18/2024	10/15/2024	2/26/2025	4/21/2025	8/11/2025	10/22/2025	2/19/2026	4/20/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	0.237	2.47	2.56	2.044	2.81	2.82	2.81	2.74	2.52	2.55	2.78	2.79	2.44	2.39	2.33	2.6	2.671	1.48	1.86
Dissolved Oxygen	mg/L	0.15	0.1	0.07	0.79	0.15	0.06	0.05	0.16	0.14	0.3	0.06	0.05	0.07	0.09	0.16	0.25	0.19	0.31	0.16
Oxidation Reduction Potential	mV	-137.4	-113.2	-175.9	-126.6	43.2	-91.9	-113.3	-130.1	-133.3	-96.7	-170.1	-82.9	-143.4	-40.9	-123.3	-75.5	-123.3	-109.4	-116.1
pH	su	7.34	7.39	7.23	7.45	7.35	7.66	7.43	7.34	7.26	7.4	7.43	7.25	7.26	7.22	7.39	7.24	6.78	7.06	7.36
Temperature	deg c	13.1	10.5	8.7	6.5	7.2	10.5	13.1	16.4	16.1	8	8.8	16.1	16.7	8.4	8.1	17.6	15.8	8.3	8.4
Turbidity	NTU	1.95	0.02	0.02	0.02	0.02	0.02	0.28	2.98	1.42	1.83	0.38	0.02	0.21	0.02	0.02	0.02	0.02	2.66	0.02
Appendix III																				
Boron	mg/L	4.0	3.9	3.8	3.8	3.5	4.3	4.1 J+	4.0	4.7 J	4.1	4.2	4.4	4.7 J-	3.7	3.7	4.0	2.6	0.68	1.8
Calcium	mg/L	310	360	350	390	340	400	410	330	360	350	430	380	340 J-	360	250	370	560	310	310
Chloride	mg/L	180	300	200	220	220	200	190	160	150	130	120	120	96	90	21	91	45	11	25
Fluoride	mg/L	1.2	0.76	1.3	1.4	1.3	1.3	1.2	1.4	1.9	1.4	1.3	1.4	1.5	1.1	2.3	1.6	1.4	2.1	1.6
Sulfate (as SO4)	mg/L	410	1.8 J	530	580	700	690	610	610	630	640	810	810	590	660	360	760	1100	480	530
Total Dissolved Solids	mg/L	1700	2100	1700	1800	1900	2100	2000	1900	1800	1800	2100	2100	1700	1800	1200	2100	2200	1100	1400
Appendix IV																				
Antimony	mg/L	0.000071 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00041 J	< 0.00050 U	< 0.00050 U	0.00012 J+	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00014 J	0.00046	< 0.00010 U	0.00042	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0012	0.00078	0.0012	0.0012	0.00060	0.00047 J	0.00092 J+	0.00088	0.001	0.00058	0.0012	0.00086	0.00088	0.0028	0.0014	0.0010	0.0013	0.0059	0.00094
Barium	mg/L	0.11	0.46	0.13	0.12	0.10	0.12	0.15	0.12	0.12	0.11	0.12	0.084	0.085	0.16	0.025	0.15 J+	0.12	0.091	0.11
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000066 J	0.000054 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000093 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0027	0.0060	0.0047	0.0049	0.0026	0.0031	0.0046	0.0044	0.0027	0.0026	0.0041	0.0047	0.0051	0.0028	0.0010	0.0038	0.0021	0.00074	0.0019
Cobalt	mg/L	0.00035 J	0.00093	0.00062	0.00065	0.00031 J	0.00036 J	0.00074 J+	0.00062	0.00045 J	0.00018 J	0.00034 J	0.00024 J	0.00032 J	0.00035 J	0.00011 J	0.00030 J	0.0025	0.0018	0.00038 J
Fluoride	mg/L	1.2	0.76	1.3	1.4	1.3	1.3	1.2	1.4	1.9	1.4	1.3	1.4	1.5	1.1	2.3	1.6	1.4	2.1	1.6
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00050 UJ	< 0.00010 U	0.00026 J	< 0.00050 U	0.00016 J	0.00042 J	0.00013 J
Lithium	mg/L	0.067	0.047	0.061	0.074	0.054	0.061	0.074	0.074	0.066	0.048	0.062	0.068	0.074	0.031	0.055	0.060	0.055	0.033	0.038
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000029	0.00000021 J	0.00000076	0.00000043 J	< 0.00000016 U
Molybdenum	mg/L	0.0013	< 0.00062 U	0.00074 J	0.00086 J	< 0.0031 U	0.00041 J	0.00044 J+	0.0012	0.0015	0.00037 J	0.00097 J	0.0014	0.0015	0.0023	0.011	0.0011 J	0.0099	0.013	0.0028
Radium 226 and 228	pCi/L	1.43	1.08	1.55	1.23	< 0.752 U	1.49	1.2	1.29	1.2	< 0.868 U	1.11 J-	< 0.691 U	0.796	< 0.56 U	< 0.614 U	1.75	< 1.29 U	0.734	1.6
Radium-226	pCi/L	< 0.206 U	0.159	0.175	< 0.198 U	< 0.189 U	< 0.214 U	0.232	0.152 J-	0.275	< 0.155 U	0.176 J-	0.243	< 0.235 U	0.37	< 0.457 U	< 0.482 U	< 0.427 U	< 0.128 U	< 0.247 U
Radium-228	pCi/L	1.28	0.916	1.38	1.16	< 0.752 U	1.33 J	0.963	1.14	0.924	< 0.868 U	0.936 J-	< 0.691 U	0.693	< 0.56 U	< 0.614 U	1.3	< 1.29 U	< 0.674 U	1.41
Selenium	mg/L	< 0.00022 U	0.00041 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	0.00017 J+	0.00021 J+	0.00024 J	0.00043 J	0.00021 J	0.00023 J	0.00031 J	0.00019 J	0.0012	0.00019 J	0.00035 J	0.00016 J	0.00014 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	10	8.0	11	10	11	12	8.1	< 4.0 UJ	8	< 4.0 U	15	5.0	4.0	8.0	< 4.0 U	9.0	8.2	14	19
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	0.00032	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00099	< 0.00020 U	0.0011	0.00079	0.00028
Iron	mg/L	4.7	6.3	5.6	6.3	6.1	6.8	6.8	5.0	5.6	5.5	6.8	5.7	4.8	0.62	0.19	5.1	3.5	6.6	5.0
Nickel	mg/L	0.012	0.0019	0.018	0.019	0.011	0.013	0.022	0.019	0.013	0.010	0.016	0.018	0.019	0.012	0.0028	0.013	0.014	0.0084	0.0075
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00097 J	0.0011 J	0.0012	0.00075 J	0.0011 J	0.00084 J	0.00071 J	0.00053 J	0.00063 J
Zinc	mg/L	0.0044	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0059	< 0.0012 U	< 0.0012 U	< 0.0012 UJ	0.0015	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0051	< 0.0012 U	0.0025	0.0015	0.0051	0.013	0.013
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	800	1800	720	690	720	740	730	750	780	680	700	710	740	760	91	800	620	410	590
Carbonate Alkalinity	mg/L	< 0.16 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	96	200	110	120	120	140	130	120	120	120	140	130	110	120	36	120	78	35	67
Potassium	mg/L	21	20	20	18	21	24	26	23	24	21	23	24	23 J-	18	7.9	22	12	3.4	9.9
Sodium	mg/L	83	110	84	83	89	100	93	87	83	80	90	84	74	65	23	68	35	13	32
Total Alkalinity	mg/L	800	1800	720	690	720	740	730	750	780	680	700	710	740	760	91	800	620	410	590

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-04R	MW-04R	MW-04R
Compliance Phase:		Development Sa	Assessment	Assessment
Sample Date:		12/22/2025	2/19/2026	4/20/2026
Sample Type:		Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater
Constituent	**Unit**			
Field Parameters				
Conductivity	mS/cm	1.605	2.07	2.13
Dissolved Oxygen	mg/L	1.38	0.23	0.47
Oxidation Reduction Potential	mV	-78.5	-136	-101.7
pH	su	7.19	7.26	7.31
Temperature	deg c	12	11.8	9.8
Turbidity	NTU	0.02	8.67	2.24
Appendix III				
Boron	mg/L	3.7	3.5	3.1
Calcium	mg/L	320	320	310
Chloride	mg/L	120	110	89
Fluoride	mg/L	1.4	1.3	1.3
Sulfate (as SO4)	mg/L	31	57	100
Total Dissolved Solids	mg/L	1300	1200	1300
Appendix IV				
Antimony	mg/L	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0019	0.0011	0.00058
Barium	mg/L	0.23	0.25	0.23
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0017	0.0012	0.0011
Cobalt	mg/L	0.0011	0.00072	0.00056
Fluoride	mg/L	1.4	1.3	1.3
Lead	mg/L	0.00013 J	0.00022 J	< 0.00010 U
Lithium	mg/L	0.037	0.038	0.035
Mercury	mg/L	0.00000076	0.00000084	< 0.00000016 U
Molybdenum	mg/L	0.00063 J	0.00048 J	< 0.00032 U
Radium 226 and 228	pCi/L	1.61	< 1.59 U	2.88
Radium-226	pCi/L	0.656	0.807	0.935
Radium-228	pCi/L	0.95	< 1.59 U	1.95
Selenium	mg/L	0.0013	0.00016 J	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	< 4.3 U	5.0
Michigan CCR Part 115				
Copper	mg/L	--	< 0.00020 U	< 0.00020 U
Iron	mg/L	3.7	3.6	2.2
Nickel	mg/L	0.0036	0.0026	0.0029
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00089 J	0.00054 J	0.00031 J
Zinc	mg/L	0.020	0.022	0.020
Additional Parameters				
Bicarbonate Alkalinity	mg/L	--	1000	1100
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U
Magnesium	mg/L	--	69	63
Potassium	mg/L	--	14	13
Sodium	mg/L	--	65	60
Total Alkalinity	mg/L	--	1000	1100

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/29/2022	1/3/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/26/2025	4/20/2025	8/14/2025	10/23/2025	2/17/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.78	2.13	2.16	1.973	2	2.05	2.04	2	2.02	1.63	1.92	1.91	1.9	1.93	1.88	2.07	2.195	1.91	1.92
Dissolved Oxygen	mg/L	0.1	0.6	0.07	0.14	0.35	0.08	0.24	0.38	0.24	0.15	0.07	0.01	0.05	0.28	0.13	0.12	0.16	0.3	0.14
Oxidation Reduction Potential	mV	38.1	-139	-193.2	-148.9	-173.5	-184.3	-182.7	-80.3	-176.8	145.9	-139.9	-234.1	-171.6	88.1	-193.1	70.2	-148.9	-154.7	-140
pH	su	7.33	7.26	6.42	7.21	7.28	7.36	7.27	7.17	7.26	7.2	7.18	7.39	7.29	7.49	7.38	7.4	7.26	7.36	7.51
Temperature	deg c	13.9	10.9	7.6	8.1	8.4	11.2	13.4	16.8	16.6	8.8	9.5	16	17.5	8.2	9.4	16.6	16.4	9.7	9.9
Turbidity	NTU	0.02	1.13	2.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.07	1.4	8.36	0.54	1.93	1.27	0.02	2.03
Appendix III																				
Boron	mg/L	12	9.5	10	9.5	7.5	8.6	9.7 J+	9.9	11	7.3	6.4	8.3	11	9.8	6.9	11	12	9.7	8.8
Calcium	mg/L	220	230	250	310	250	270	290	230	240	280	310	250	220	200	210	230	210	210	200
Chloride	mg/L	160	120	110	82	57	73	71	76	79	18	13	31	57	59	29	57	80	35	25
Fluoride	mg/L	1.3	1.4	1.1	1.0	1.1	1.0	1.1	1.4	1.2	0.98	1.1	0.99	1.6	1.2	1.2	1.5	1.5	1.3	1.3
Sulfate (as SO4)	mg/L	16	9.6	20	7.3	9.4	20	16	0.98 J	< 0.41 U	1.5 J	9.2	< 2.2 U	2.9 J	30	15	5.1 J	11	3.3 J	100
Total Dissolved Solids	mg/L	1300	1200	1300	1200	1200	1200	1300	1200	1100	1100	1200	1200	1100	1200	1200	1200	1200	980	1200
Appendix IV																				
Antimony	mg/L	0.000075 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00036 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00027
Arsenic	mg/L	0.00080	0.00065	0.00058	0.00054 J	0.00047 J	0.00065	0.00062 J+	0.00082	0.001	0.00057	0.00068	0.00098	0.00082	0.00051 J	0.00051 J	0.00056	0.00099	0.00037 J	0.00081
Barium	mg/L	1.5	1.5	1.6	1.4	0.99	1.3	1.4	1.4	1.5	1.4	1.3	1.7	1.6	1.3	1.4	1.5	1.4	1.4	1.4
Beryllium	mg/L	< 0.000054 U	< 0.000052 U	0.000052 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000057 J	0.00029
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0015	0.0021	0.0021	0.0030	0.0014	0.0012	0.0020	0.0023	0.0015	0.0012	0.0011	0.0014	0.0013	0.0011	0.00095	0.0014	0.0016	0.0011	0.0011
Cobalt	mg/L	0.00048 J	0.00057	0.00067	0.00073	0.00050 J	0.00046 J	0.00080 J+	0.00067	0.00047 J	0.00035 J	0.00042 J	0.00037 J	0.00042 J	0.00039 J	0.00033 J	0.00045 J	0.00043 J	0.00036 J	0.0034
Fluoride	mg/L	1.3	1.4	1.1	1.0	1.1	1.0	1.1	1.4	1.2	0.98	1.1	0.99	1.6	1.2	1.2	1.5	1.5	1.3	1.3
Lead	mg/L	0.00035 J	0.00025 J	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	0.00027 J+	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	0.00012 J	0.00018 J	< 0.00010 U	0.00023 J	0.00018 J	0.00011 J	0.00035 J
Lithium	mg/L	0.23	0.22	0.20	0.23	0.15	0.15	0.19	0.22	0.19	0.13	0.11	0.14	0.17	0.17	0.12	0.19	0.18	0.16	0.14
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000070	0.00000053	0.00000087	0.00000049 J	0.00000089
Molybdenum	mg/L	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	0.00026 J	0.00027 J+	< 0.00025 U	0.00025 J	< 0.00025 U	< 0.00025 U	0.00028 J	0.00043 J	0.00056 J	< 0.00025 U	< 0.00025 U	0.00030 J	0.00025 J	0.0051
Radium 226 and 228	pCi/L	0.864	0.637	< 0.715 U	1.91	< 0.646 U	0.92	0.824	0.938	1.58	0.965	2.23	< 0.619 U	2.87	1.02	2.13	1.47	2.31	1.28	< 1 U
Radium-226	pCi/L	0.419	0.238	0.24	< 0.212 U	0.402	0.259	0.331	0.465	0.432	0.358	0.383	0.288	0.36	< 0.28 U	< 0.326 U	< 0.412 U	< 0.434 U	0.196	< 0.143 U
Radium-228	pCi/L	< 0.449 U	< 0.631 U	< 0.715 U	1.7	< 0.646 U	< 0.772 U	< 0.606 U	< 0.735 U	1.15	< 0.85 U	1.85	< 0.619 U	2.51	0.77	1.8	1.09	1.91	1.09	< 1 U
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00020 J	0.00022 J+	0.00019 J	0.0002 J	0.00047 J	0.00023 J	0.00020 J	0.00029 J	0.00022 J	0.00016 J	0.00022 J	0.00023 J	0.00021 J	0.00040 J
Thallium	mg/L	< 0.000076 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00017 J
Total Suspended Solids	mg/L	36	45	42	65	53	43	41	37	48	73	54	27	34	12	42	13	8.2	31	19
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00028	< 0.00020 U	0.00038	0.00025	< 0.00020 U	< 0.00020 U	0.00029	< 0.00020 U	0.00035	0.0033
Iron	mg/L	15	17	16	26	19	18	18	14	19	31	26	17	12	4.6	14	6.2	7.5	11	9.7
Nickel	mg/L	0.0011 J	0.0011 J	0.0012	0.00092 J	< 0.00065 U	< 0.00065 U	0.0010 J	0.00090 J	0.00079 J	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00095 J	0.00091 J	< 0.00065 U	0.00083 J	0.0011 J	0.00075 J	0.0038
Silver	mg/L	< 0.000051 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.00016
Vanadium	mg/L	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00064 J	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00070 J	0.00054 J	0.00046 J	0.0039
Zinc	mg/L	0.060	0.0019	0.0018	0.0012	0.094	< 0.0012 U	0.0018	0.0013	0.0018	< 0.0012 U	0.0012	0.0013	0.058	0.0014	0.0017	0.081	0.0020	0.083	0.080
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	1100	1100	1000	1100	1100	990	1100	1100	1000	980	1100	1100	1000	1100	1100	1100	1100	1100	980
Carbonate Alkalinity	mg/L	< 1.6 U	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	110	95	100	96	90	100	100	90	89	81	78	81	97	110	80	90	100	100	110
Potassium	mg/L	32	24	23	20	20	23	26	24	26	20	18	22	25	25	19	26	26	23	21
Sodium	mg/L	110	78	84	69	63	82	87	77	71	49	49	64	88	100	73	85	88	78	75
Total Alkalinity	mg/L	1100	1100	1000	1100	1100	990	1100	1100	1000	980	1100	1100	1000	1100	1100	1100	1100	1100	980

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/4/2023	2/7/2023	3/13/2023	4/18/2023	5/23/2023	6/27/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/17/2024	10/15/2024	2/26/2025	4/21/2025	8/13/2025	10/22/2025	2/19/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	0.46	1.21	1.206	1.209	1.25	1.24	1.25	1.25	1.23	1.25	1.27	1.29	1.24	1.25	0.899	1.104	1.083	1.44	1.4
Dissolved Oxygen	mg/L	0.12	0.3	0.08	0.21	0.03	0.23	0.43	0.72	0.22	0.2	0.26	0.04	0.36	0.01	0.33	0.35	0.12	0.11	0.21
Oxidation Reduction Potential	mV	57.2	-88	-103.1	-143.9	-68	-109.4	-140.5	-15.7	-141	-74.7	-60.1	-176.7	-134.1	-34.2	-56.9	-128.8	-119.2	-78.8	-105
pH	su	6.88	7.04	6.93	6.58	6.86	6.93	6.88	6.65	6.88	7.02	7.05	6.95	6.87	6.84	6.87	6.91	6.91	6.81	6.91
Temperature	deg c	12.2	11	10	8.6	9.6	11.3	13	14.8	14.6	9.7	10.2	14.8	15	9.9	9.9	14.6	14.2	10.3	10.7
Turbidity	NTU	5.89	4.2	4.07	0.02	2.94	1.5	0.02	0.72	0.74	9.13	0.74	0.02	0.02	3.07	8.68	0.02	5.47	0.02	2.24
Appendix III																				
Boron	mg/L	13	11	12	11	10	12	11 J+	11	12	11	13	10	11	11	8.8	10	12	12	6.9
Calcium	mg/L	140	140	140	150	130	150	160	120	150	140	160	150	130	160	150	160	160	170	150
Chloride	mg/L	15	15	14	14	14	13	13	13	14	14	14	14	15	16	17	17	16	17	15
Fluoride	mg/L	0.14	0.070 J	0.12	< 0.055 U	0.14	0.11	0.080 J	0.083 J	0.14	0.068 J	0.080 J	0.19 J	< 0.055 U	< 0.11 U	0.14	< 0.11 U	0.22	0.15 J	0.15 J
Sulfate (as SO4)	mg/L	29	30	33	20	17	15	18	19	26	32	36	15	34	37	20	28	33	48	16
Total Dissolved Solids	mg/L	660	470	650	500	620	660	720	620	620	680	710	720	680	710	720	740	670	720	740
Appendix IV																				
Antimony	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.000071 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00023 J	0.00021 J	0.00023 J	0.00018 J	0.00013 J	0.00023 J	0.00020 J+	0.00020 J	0.00029 J	0.00021 J	0.00024 J	0.00023 J	0.00022 J	0.00018 J	0.00020 J	0.00016 J	0.00019 J	0.00010 J	0.00015 J
Barium	mg/L	0.33	0.34	0.36	0.30	0.25	0.34	0.35	0.34	0.38	0.35	0.34	0.36	0.37	0.42	0.40	0.38	0.43	0.42	0.34
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	0.000062 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	0.000066 J	0.000055 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000055 J	0.00012 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00038	0.00030	0.00037	0.00042	0.00028	0.00029	0.00033	0.00032	0.00036	0.00032	0.00034	0.00074	0.00041	0.00028	0.00041	0.00031	0.00034	0.00029	0.00025
Cobalt	mg/L	0.00071	0.00088	0.00099	0.00099	0.00087	0.00095	0.0011 J+	0.00098	0.00098	0.00074	0.00083	0.00080	0.0010	0.00086	0.0011	0.00097	0.00097	0.0010	0.0012
Fluoride	mg/L	0.14	0.070 J	0.12	< 0.055 U	0.14	0.11	0.080 J	0.083 J	0.14	0.068 J	0.080 J	0.19 J	< 0.055 U	< 0.11 U	0.14	< 0.11 U	0.22	0.15 J	0.15 J
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.0054	0.0070	0.0052	0.0067	0.0083	0.0055	0.010	0.0042	0.0062	0.0031	0.0057	0.0057	0.0056	0.0054	0.0069	0.0066	0.0053	0.0070	0.0085
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000024 J	< 0.00000016 U	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00032 U
Radium 226 and 228	pCi/L	1.12	1.26 J+	1.03	1.12	0.674	< 0.928 U	< 0.697 U	2.36	1.76	0.937	2.75	1.46	1.29	1.44	1.38	1.49	1.44	1.78	2.1
Radium-226	pCi/L	0.444	0.53	0.333	0.38	0.475	0.309	0.341	0.665	0.475	0.495	0.508	0.551	0.333	0.53	0.681	0.61	0.405	0.484	0.634
Radium-228	pCi/L	0.676	0.729 J+	0.693	< 0.835 U	< 0.559 U	< 0.928 U	< 0.697 U	1.7	1.28	< 0.789 U	2.25	< 0.965 U	0.959	0.91	< 0.778 U	< 1.05 U	1.03	1.3	1.47
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00010 J	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00023 J	< 0.00010 U	0.00011 J	0.00017 J	0.00013 J	0.00011 J	0.00012 J	0.00012 J	0.00013 J	0.00011 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	44	36	35	33	33	39	39	41	38	29	32	46	43	44	57	47	39	44	55
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	0.00024 J	0.00021 J	< 0.00020 U	0.00062	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00025
Iron	mg/L	16	13	13	15	14	19	17	14	18	15	15	17	17	19	21	19	16	19	21
Nickel	mg/L	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00071 J	< 0.00065 U	< 0.00065 U	0.00016 J	0.00024 J	0.00020 J	0.00017 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00079 J	0.00095 J	< 0.00062 U	0.00077 J	0.00075 J	0.00084 J	0.00059 J	0.00060 J
Zinc	mg/L	0.016	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.025	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0035	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.016	0.0013	< 0.0012 U	0.022	0.00075 J	0.033	0.027
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	660	580	630	610	640	630	620	620	600	610	630	640	620	650	680	670	630	640	710
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	37	37	37	38	38	40	36	35	38	38	40	36	35	39	39	37	39	42	36
Potassium	mg/L	5.4	5.4	5.2	5.7	4.8	4.4	4.7	5.1	4.9	4.7	4.7	4.5	4.1	4.5	4.6	4.5	4.5	4.9	4.4
Sodium	mg/L	53	47	47	47	59	57	56	48	51	52	57	55	47	44	44	44	46	45	56
Total Alkalinity	mg/L	660	580	630	610	640	630	620	620	600	610	630	640	620	650	680	670	630	640	710

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/1/2022	1/5/2023	2/7/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/26/2025	4/20/2025	8/14/2025	10/22/2025	2/18/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.06	1.13	1.133	0.787	1.03	0.99	1.03	1.02	0.87	0.89	0.9	0.99	1.11	1.01	0.91	1.185	1.179	0.87	0.673
Dissolved Oxygen	mg/L	0.2	0.09	0.05	0.55	0.06	0.09	0.04	0.09	1.53	0.3	0.1	0.05	0.17	0.01	0.14	0.12	0.14	0.12	0.11
Oxidation Reduction Potential	mV	-159.3	-119.3	-133.9	-149.9	-121.2	-145.3	-103.6	-127.6	-180.6	-141.1	-164.6	-133.3	-138.6	-35.9	-125.6	-131.5	-135.5	-134.6	-197.6
pH	su	7.17	6.21	7.16	7.51	7.25	7.33	7.24	7.26	7.27	7.34	7.41	7	7.15	7.23	7.28	7.13	7.1	7.57	7.26
Temperature	deg c	9.6	6.9	6.2	5.2	7.3	11.6	14	16.7	14.7	6.2	7.4	15.8	16.2	5	8.3	16.1	15.2	5.9	10.2
Turbidity	NTU	0.02	0.02	0.66	0.02	1.04	0.02	2.11	5.63	0.02	2.79	1.03	0.02	0.02	0.51	0.02	1.05	0.02	4.65	2.06
Appendix III																				
Boron	mg/L	2.5	4.4	9.3	7.1	6.6	7.0	7.8 J+	7.1	4.1	7.0	6.5	7.9	4.7	4.1	3.8	7.2	8.2	5.7	4.6
Calcium	mg/L	150	160	150	150	130	140	150	120	130	120	130	120	130	140	120	160	130	96	85
Chloride	mg/L	17	23	35	30	28	25	29	30	17	25	24	30	99	39	36	110	77	32	18
Fluoride	mg/L	0.40	0.56	1.1	1.3	1.1	0.92	1.0	1.0	0.55	1.0	1.2	1.1	0.93	0.61	0.90	0.94	1.1	1.4	1.1
Sulfate (as SO4)	mg/L	13	25	5.3	26	2.0 J	< 0.41 U	< 0.41 U	< 0.41 U	1.7 J	5.6	7.0	< 2.2 U	21	48	65	32	0.60 J	< 0.58 U	34
Total Dissolved Solids	mg/L	560	480	630	480	560	550	610	530	440	530	510	550	660	590	520	780	650	320	400
Appendix IV																				
Antimony	mg/L	0.000095 J	0.000054 J	0.00020 J	0.00016 J	0.00028	< 0.00010 U	0.00011 J	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00011 J	0.00016 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0069	0.021	0.049	0.045	0.050	0.041	0.038 J+	0.029	0.011	0.030	0.047	0.044	0.030	0.033	0.046	0.049	0.057	0.091	0.057
Barium	mg/L	1.2	1.3	1.5	1.4	1.1	1.2	1.4	1.2	0.98	1.0	1.1	1.3	1.3	0.94	0.75	1.4	1.5	1.4	0.58
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.00012 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00011 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00067	0.00093	0.0015	0.0011	0.00084	0.0011	0.00094	0.00087	0.00061	0.00070	0.00075	0.00071	0.00063	0.00065	0.00059	0.00043	0.00047	0.00042	0.00056
Cobalt	mg/L	0.00034 J	0.00045 J	0.00070	0.00060	0.00051 J	0.00059	0.00062 J+	0.00058	0.00034 J	0.00034 J	0.00037 J	0.00037 J	0.00034 J	0.00098	0.00026 J	0.00076	0.00060	0.00034 J	0.00022 J
Fluoride	mg/L	0.40	0.56	1.1	1.3	1.1	0.92	1.0	1.0	0.55	1.0	1.2	1.1	0.93	0.61	0.90	0.94	1.1	1.4	1.1
Lead	mg/L	< 0.00022 U	< 0.00022 U	0.00086	< 0.00022 U	0.00022 J	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00011 J	< 0.00010 U	< 0.00010 U	0.0029	0.00022 J	0.00010 J+	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00058
Lithium	mg/L	0.063	0.11	0.14	0.14	0.11	0.11	0.13	0.12	0.076	0.097	0.098	0.11	0.082	0.075	0.070	0.069	0.088	0.083	0.066
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000065	< 0.00000016 U	< 0.00000016 U	0.0000012 J-
Molybdenum	mg/L	0.0024	0.0018	0.0015	0.0028	0.00095 J	0.00068 J	0.00039 J+	0.00036 J	0.0016	0.0017	0.0020	0.00031 J	0.00095 J	0.0020	0.0029	< 0.00025 U	0.00065 J	0.0041	0.0027
Radium 226 and 228	pCi/L	1.43	1.62 J+	< 0.836 U	1.13	1.18	1.14	< 0.606 U	2.1	0.891	< 0.848 U	1.86 J-	0.879	2.11	0.98	1.35	1.61	< 0.707 U	< 0.817 U	2.42
Radium-226	pCi/L	0.277	0.31	0.286	< 0.255 U	0.32	0.396	0.19	0.358	< 0.234 U	< 0.126 U	0.177 J-	0.232	0.367	0.32	0.263	0.521	0.285	< 0.126 U	0.3 J-
Radium-228	pCi/L	1.16	1.31 J+	< 0.836 U	< 1 U	0.858	< 0.835 U	< 0.606 U	1.74	< 0.744 U	< 0.848 U	1.68 J+	0.646	1.75	0.66	1.08	1.09	< 0.707 U	< 0.817 U	2.12
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00016 J	0.00014 J+	0.00014 J	0.00015 J	0.00034 J	0.00012 J	0.00012 J	0.00018 J	0.00030 J	0.00014 J	< 0.00010 U	0.00011 J	0.00012 J	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00013 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	62	55	49	42	36	31	30	20	43	46	36	18	31	44	45	18	11	9.1	8.0 J+
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	< 0.00020 U	0.00043	< 0.00020 U	0.00045	0.00034	< 0.00020 U	< 0.00020 U	0.00021 J	0.00035	0.00025	0.00047	0.00064	0.00080	0.00028 J+	0.00029	< 0.00020 U	0.00042	0.00037
Iron	mg/L	32	30	21	22	18	18	15	13	22	22	19	14	15	21	19	10	9.5	6.6	7.5
Nickel	mg/L	0.00093 J	0.0013	0.0015	0.0013	0.0011 J	0.0011 J	0.0011 J	0.0010 J	0.00085 J	0.0026	0.0032	0.0013	0.013	0.0052	0.0030	0.0047	0.0036	0.0016	0.0044 J+
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00091 J	< 0.00062 U	0.00029 J	0.00030 J	< 0.00028 U	< 0.00028 U
Zinc	mg/L	0.054	< 0.0012 U	0.0040	0.0013	0.12	0.0014	0.0018	< 0.0012 U	0.0025	< 0.0012 U	0.0017	0.0015	0.16	0.0037	0.0016	0.083	0.0016	0.10	0.046
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	540	510	560	470	510	490	480	480	460	440	440	460	410	400	350	550	480	370	300
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	27	30	33	27	29	28	26	26	22	23	24	25	24	22	20	28	27	23	16
Potassium	mg/L	8.8	12	14	7.6 J	12	11	12	12	8.6	8.6	9.0	11	9.1	7.7	7.4	10	11	9.0	6.7
Sodium	mg/L	21	27	38	33	35	35	40	36	23	32	32	36	41	30	29	80	61	34	23
Total Alkalinity	mg/L	540	510	560	470	510	490	480	480	460	440	440	460	410	400	350	550	480	370	300

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/4/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/17/2024	10/17/2024	2/25/2025	4/19/2025	8/13/2025	10/20/2025	2/17/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.33	1.49	1.593	1.472	2.02	1.95	1.95	1.92	1.63	2.03	2.2	2.16	1.82	2.36	1.618	2.024	2.311	2.49	2.92
Dissolved Oxygen	mg/L	0.19	0.2	1.89	0.35	0.08	0.07	0.05	0.17	0.07	0.34	0.27	0.01	0.17	3.08	1.66	0.14	0.23	0.19	0.11
Oxidation Reduction Potential	mV	42	-183.9	-138.4	-131.5	-112.3	-107.1	-117	-114.7	-69.3	-106.1	-160.4	-155.1	-137.5	58.3	-72.1	-138.9	-109.9	-53.3	-78.6
pH	su	7.2	7.22	7.22	7.4	7.22	7.52	7.28	7.21	7.16	7.14	7.25	7.2	7.12	7	7.12	7.15	6.88	6.93	7.08
Temperature	deg c	12.7	10.5	8.5	6.8	7.7	10.6	12.1	15	15.7	7.7	8.8	15.2	16.3	9.1	8.7	15.8	15.8	9.3	9.5
Turbidity	NTU	0.02	0.02	1.04	0.02	0.55	0.66	0.71	2.01	0.49	1.89	2.01	4.56	0.02	0.73	1.94	1.41	5.82	1.84	1.09
Appendix III																				
Boron	mg/L	6.0	5.8	6.1	5.1	4.9	5.9	6.3 J+	5.7	6.9	5.3	5.5	5.9	6.2	5.1	4.9	5.5	6.2	4.9	2.3
Calcium	mg/L	270	230	300	400	390	410	430	330	310	420	500	430	310	510	450	500	500	510	530
Chloride	mg/L	15	17	18	16	12	11	11	12	12	18	25	25	25	67	57	41	41	53	93
Fluoride	mg/L	2.1	2.4	2.6	2.5	2.5	2.7	2.9	2.9	2.8	2.2	2.3	2.6	2.9	2.4	2.4	2.7	2.1	2.6	1.6
Sulfate (as SO4)	mg/L	110	83	210	480	650	580	500	450	210	610	720	630	270	790	930	810	680	970	1300
Total Dissolved Solids	mg/L	960	740	1100	1400	1600	1600	1500	1400	1100	1600	1700	1700	1300	1900	2000	1900	1800	2100	2400
Appendix IV																				
Antimony	mg/L	0.000073 J	< 0.000050 U	0.00023 J	0.000092 J	0.00037 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	0.00012 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00016 J	0.00020 J
Arsenic	mg/L	0.0025	0.0023	0.0023	0.0023	0.0013	0.0013	0.0027 J+	0.0024	0.0023	0.0015	0.0030	0.0025	0.0025	0.0015	0.0016	0.0022	0.0025	0.00082	0.0033
Barium	mg/L	0.59	2.4	0.36	0.38	0.18	0.20	0.17	0.20	0.28	0.31	0.20	0.20	0.23	0.097	0.10	0.12	0.14	0.061	0.046
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000058 J	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000057 J	< 0.000052 U	0.00015 J	< 0.000052 U	< 0.000052 U	0.000085 J	0.000064 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00068	< 0.000075 U
Chromium, Total	mg/L	0.0022	0.0028	0.0032	0.0030	0.0018	0.0019	0.0031	0.0027	0.0018	0.0016	0.0026	0.0021	0.0027	0.0020	0.0024	0.0021	0.0024	0.0011	0.0016
Cobalt	mg/L	0.00035 J	0.00046 J	0.00058	0.00099	0.00053	0.00037 J	0.00069 J+	0.00075	0.00024 J	0.00058	0.00076	0.00024 J	0.00023 J	0.00043 J	0.00053	0.00024 J	0.00037 J	0.00061	0.0064
Fluoride	mg/L	2.1	2.4	2.6	2.5	2.5	2.7	2.9	2.9	2.8	2.2	2.3	2.6	2.9	2.4	2.4	2.7	2.1	2.6	1.6
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00050 U	0.00014 J	0.00034 J
Lithium	mg/L	0.29	0.34	0.33	0.31	0.26	0.29	0.34	0.33	0.29	0.26	0.29	0.30	0.27	0.33	0.31	0.31	0.29	0.35	0.54
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0024	< 0.00016 U	0.0021	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000032 J	< 0.00000016 U	0.00000029 J	0.0000040
Molybdenum	mg/L	0.028	0.033	0.029	0.021	0.020	0.012	0.019 J+	0.019	0.021	0.0097	0.021	0.016	0.028	0.023	0.025	0.028	0.023	0.033	0.023
Radium 226 and 228	pCi/L	0.789	< 0.678 U	< 0.642 UJ	< 0.796 U	< 0.688 U	< 0.912 U	< 0.742 U	< 0.821 U	< 0.688 U	< 0.98 U	< 0.743 U	< 0.771 U	< 0.851 U	< 0.45 U	< 0.778 U	< 0.782 U	20.3	< 1.12 U	< 0.464 U
Radium-226	pCi/L	< 0.16 U	< 0.0959 U	< 0.125 UJ	< 0.223 U	< 0.184 U	< 0.22 U	< 0.186 U	< 0.163 U	< 0.237 U	< 0.12 U	< 0.17 U	< 0.135 U	< 0.185 U	< 0.24 U	< 0.218 U	< 0.383 U	0.504	< 0.132 U	< 0.305 U
Radium-228	pCi/L	0.69	< 0.678 U	< 0.642 UJ	< 0.796 U	< 0.688 U	< 0.912 U	< 0.742 U	< 0.821 U	< 0.688 U	< 0.98 U	< 0.743 U	< 0.771 U	< 0.851 U	< 0.45 U	< 0.778 U	< 0.782 U	19.8	< 1.12 U	< 0.464 U
Selenium	mg/L	0.00026 J	< 0.00022 U	0.00028 J	0.00024 J	< 0.00022 U	0.00012 J	0.00027 J+	0.00026 J	0.00023 J	0.00024 J	0.00033 J	0.00029 J	0.00040 J	0.00064	0.00038 J	0.00027 J	0.00034 J	0.0035	0.00097
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	45	51	52	50	56	52	46	48	39	47	50	57	47	33	64	64	60	15	47
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00043	< 0.0002 U	< 0.00020 U	0.00029	0.0013	0.00029	0.00034	< 0.00020 U	< 0.00020 U	0.00024 J	0.0038	0.0018
Iron	mg/L	17	19	19	24	25	25	19	16	15	22	26	20	16	13	26	24	23	5.8	17
Nickel	mg/L	0.00088 J	0.0020	0.0020	0.0033	0.0018	0.0010 J	0.0012	0.0012	0.00072 J	0.0060	0.0072	0.0099	0.0020	0.10	0.0044	0.0046	0.024	0.023	0.027
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00047 J	0.00071 J	0.00028 J	0.00034 J
Zinc	mg/L	0.025	0.0015	< 0.0012 UJ	< 0.0012 U	0.018	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0017	0.0091	0.016	0.0045	0.0071	0.0019	0.12	0.017
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	750	710	750	620	610	400	720	660	780	610	600	630	790	670	610	590	680	600	400
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	38	36	44	50	53	53	47	46	41	55	64	53	44	69	67	62	65	81	100
Potassium	mg/L	13	16	16	10 J	15	14	16	17	15	13	14	15	14	16	14	15	16	14	13
Sodium	mg/L	29	28	26	26	26	29	30	27	27	26	31	28	26	34	33	30	32	39	64
Total Alkalinity	mg/L	750	710	750	620	610	400	720	660	780	610	600	630	790	670	610	590	680	600	400

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

	Sample Location:	MW-09B
	Compliance Phase:	Development Sample
	Sample Date:	12/22/2025
	Sample Type:	Field Sample
	Unit:	Unit 3A/B & 1/2
	Sample Matrix:	Groundwater
Constituent	**Unit**	
Field Parameters		
Conductivity	mS/cm	1.756
Dissolved Oxygen	mg/L	0.03
Oxidation Reduction Potential	mV	-88.3
pH	su	7.14
Temperature	deg c	11.3
Turbidity	NTU	7.23
Appendix III		
Boron	mg/L	4.5
Calcium	mg/L	270
Chloride	mg/L	220
Fluoride	mg/L	1.8
Sulfate (as SO4)	mg/L	520
Total Dissolved Solids	mg/L	1600
Appendix IV		
Antimony	mg/L	0.00018 J
Arsenic	mg/L	0.0020
Barium	mg/L	0.093
Beryllium	mg/L	< 0.000052 U
Cadmium	mg/L	< 0.000075 U
Chromium, Total	mg/L	0.00034
Cobalt	mg/L	0.0015
Fluoride	mg/L	1.8
Lead	mg/L	0.00013 J
Lithium	mg/L	0.061
Mercury	mg/L	0.00000041
Molybdenum	mg/L	0.012
Radium 226 and 228	pCi/L	< 0.57 U
Radium-226	pCi/L	< 0.24 U
Radium-228	pCi/L	< 0.57 U
Selenium	mg/L	0.0024
Thallium	mg/L	< 0.000075 U
Total Suspended Solids	mg/L	15
Michigan CCR Part 115		
Iron	mg/L	7.4
Nickel	mg/L	0.0016
Silver	mg/L	< 0.000050 U
Vanadium	mg/L	0.00063 J
Zinc	mg/L	0.0090

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-10
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/29/2022	1/4/2023	2/6/2023	3/14/2023	4/18/2023	5/23/2023	6/27/2023	8/8/2023	10/23/2023	2/13/2024	4/7/2024	7/17/2024	10/16/2024	2/26/2025	4/20/2025	8/14/2025	10/20/2025	2/17/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.96	2.48	2.34	2.16	2.51	2.18	2.83	3.19	2.68	2.37	3.62	3.62	4	2.87	2.73	3.79	3.581	2.97	2.49
Dissolved Oxygen	mg/L	0.08	0.04	0.07	0.05	0.02	0.03	0.11	0.02	0.07	0.18	0.03	0.03	0.07	0.17	0.12	0.1	0.09	0.14	0.11
Oxidation Reduction Potential	mV	-20.3	-245.6	-222.9	-200.2	-189.2	-197.6	-216.2	-168	-149.1	-116.1	-162.4	-193.2	-144.8	99	-151.2	72.1	-158.5	-190.3	-168.9
pH	su	7.85	7.79	7.05	8.19	7.96	8.81	7.85	7.74	7.47	7.8	7.8	7.42	7.53	7.76	7.77	7.53	7.36	7.78	7.82
Temperature	deg c	11.1	7.7	5.9	4.6	6.5	10.3	13.4	17	14.8	5.3	7.1	16.9	16.5	5.5	7	17.3	17	6.6	8.4
Turbidity	NTU	0.02	0.02	0.65	0.02	0.29	2.21	0.02	1.01	0.02	3.61	0.02	0.02	1.48	3.3	3.96	0.35	0.02	0.02	1.59
Appendix III																				
Boron	mg/L	25	14	9.7	4.5	9.2	17	26 J+	28	23	8.7	6.4	15	21	23	22	28	30	26	21
Calcium	mg/L	220	220	280	460	280	210	210	160	190	310	590	430	360	300	270	250	270	270	210
Chloride	mg/L	220	170	130	92	140	160	320	430	310	140	240	420	670	350	330	700	600	400	280
Fluoride	mg/L	7.1	5.7	4.0	2.7	4.6	6.5	7.3	7.7	6	3.3	2.7	4.2	5.2	5.9	5.7	6.2	5.2	5.6	5.4
Sulfate (as SO4)	mg/L	490	620	880	360	950	410	200	140	330	840	1700	1000	690	390	450	270	270	210	270
Total Dissolved Solids	mg/L	1700	1800	1800	2400	1900	1500	1700	1900	1600	1800	3200	2700	2800	1900	1800	2300	2200	1800	1500
Appendix IV																				
Antimony	mg/L	0.00013 J	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00034 J	< 0.00050 U	0.00011 J	0.00011 J	< 0.0001 UJ	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00049 J	0.00034 J	0.00038 J	0.00037 J	0.00020 J	0.00055	0.00073 J+	0.0011	0.00094	0.00025 J	0.00085	0.0012	0.0020	0.00053 J	0.00074	0.0016	0.0017	0.00086	0.00054 J
Barium	mg/L	0.32	0.57	0.28	0.23	0.14	0.16	0.23	0.28	0.46	0.32	0.27	0.19	0.23	0.38	0.32	0.36	0.64	0.72	0.48
Beryllium	mg/L	< 0.000054 U	0.000071 J	< 0.000052 U	0.000054 J	< 0.000052 U	0.00022 J	0.000092 J+	0.00015 J	0.000052 J-	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000063 J	< 0.000052 U	0.000069 J	0.00012 J	0.000082 J+	< 0.000052 UJ	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0040	0.0050	0.0026	0.0018	0.0019	0.0042	0.0070	0.0085	0.0042	0.0013	0.0016	0.0028	0.0031	0.0045	0.0048	0.0041	0.0049	0.0052	0.0041
Cobalt	mg/L	0.00038 J	0.00040 J	0.00041 J	0.00053	0.00030 J	0.0018	0.00068 J+	0.00090	0.00038 J-	< 0.00010 U	0.00010 J	0.00025 J	0.00042 J	0.00029 J	0.00027 J	0.00053	0.00055	0.00037 J	0.00028 J
Fluoride	mg/L	7.1	5.7	4.0	2.7	4.6	6.5	7.3	7.7	6	3.3	2.7	4.2	5.2	5.9	5.7	6.2	5.2	5.6	5.4
Lead	mg/L	< 0.00023 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	0.00012 J	0.00017 J	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.92	0.83	0.54	1.6	0.99	0.83	1.1	1.2	0.94	0.56	0.76	0.94	1.0	0.97	0.83	0.99	0.98	1.0	0.76
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	0.0019	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000037 J	< 0.00000016 U	0.00000020 J+	< 0.00000016 U
Molybdenum	mg/L	0.0072	0.0033	0.0048	0.0036	0.0035 J	0.0056	0.0019 J+	0.0028	0.0027	0.00080 J	0.0015	0.0037	0.0035	0.00065 J	0.0016	0.0022	0.0019	0.00089 J	0.0020
Radium 226 and 228	pCi/L	< 0.775 U	< 0.645 U	1.36	< 1.09 U	< 0.605 UJ	< 0.801 U	< 0.752 U	< 0.736 U	< 0.897 UJ	1.22	< 0.59 U	< 0.698 U	1.96	< 0.83 U	< 1.12 UJ	2.06	< 1.15 U	< 0.613 UJ	< 0.863 U
Radium-226	pCi/L	< 0.171 U	< 0.119 U	< 0.121 U	< 0.231 U	< 0.155 UJ	< 0.248 U	< 0.179 U	< 0.142 U	< 0.229 UJ	0.206	< 0.149 U	0.185	0.417	0.62	< 0.29 UJ	0.495	0.389 J+	< 0.108 UJ	< 0.158 UJ
Radium-228	pCi/L	< 1 U	< 0.645 U	1.31	< 1.09 U	< 0.605 UJ	< 0.801 U	< 0.752 U	< 0.736 U	< 0.897 UJ	1.01	< 0.59 U	< 0.698 U	1.54	< 0.83 U	< 1.12 UJ	1.57	< 1.15 U	< 0.613 UJ	< 0.863 U
Selenium	mg/L	0.00031 J	0.00028 J	0.00031 J	0.00046 J	< 0.00022 U	0.00039 J	0.00036 J+	0.00041 J	0.00036 J	0.00083	0.00030 J	0.00034 J	0.00032 J	0.00019 J	0.00026 J	0.00034 J	0.00039 J	0.00030 J	0.00026 J
Thallium	mg/L	< 0.000076 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	4.0	4.0	1.0 J	9.0	8.0 J+	2.0 J	< 4.0 U	2.0 J	< 4 U	< 4.0 U	6.0	20	11	14	13	< 4.0 U	< 4.1 U	8.2	6.0
Michigan CCR Part 115																				
Copper	mg/L	0.00049	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0013	< 0.00020 U	< 0.00020 U	0.00038 J-	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U
Iron	mg/L	3.7	3.7	3.9	7.2	7.3	6.2	4.5	3.2	2.4	3.7	6.0	5.9	5.2	7.0	7.7	3.4	2.3	5.4	4.3
Nickel	mg/L	0.00089 J	0.00087 J	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.0018	0.00088 J	0.0012	0.00076 J-	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.00085 J	< 0.00065 U	0.00079 J	0.00092 J	0.0011 J	0.0012	0.00088 J
Silver	mg/L	< 0.000051 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00064 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0013	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00089 J	0.0010 J	< 0.00062 U	< 0.00062 U	0.0012	0.0014	0.00053 J	0.00045 J
Zinc	mg/L	0.014	0.0012	< 0.0012 U	< 0.0012 U	0.013	0.0018	0.0012	0.0014	0.0025 J-	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.014	< 0.0012 U	< 0.0012 U	0.019	0.0016 J+	0.048	0.033
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	680	580	320	140	340	540	720	770	700	240	220	410	560	850	680	730	710	870	690
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	85	86	91	95	76	63	59	58	61	86	120	100	91	110	100	76	79	100	68
Potassium	mg/L	44	33	31	40	42	36	46	48	45	41	60	63	62	42	38	50	56	40	33
Sodium	mg/L	220	160	120	140	160	190	310	390	300	120	130	250	360	230	220	440	390	260	210
Total Alkalinity	mg/L	680	580	320	140	340	540	720	770	700	240	220	410	560	850	680	730	710	870	690

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/29/2022	1/3/2023	2/8/2023	3/14/2023	4/18/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/13/2024	4/7/2024	7/18/2024	10/16/2024	2/25/2025	4/20/2025	8/14/2025	10/23/2025	2/17/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.38	1.4	1.9	1.413	1.77	1.76	1.85	1.68	1.4	1.38	1.63	1.72	1.56	1.71	0.979	1.94	1.537	1.44	1.37
Dissolved Oxygen	mg/L	0.1	0.31	0.25	0.19	0.23	0.09	0.13	0.22	0.31	0.07	0.25	0.09	0.23	0.44	0.2	0.14	0.18	0.26	0.11
Oxidation Reduction Potential	mV	76.8	-142.4	-161.7	-121	-157.9	-136.5	-64.7	-27.6	-179.4	140.9	-148.2	-78	-142.4	50.6	-82.3	60.7	-147.6	-156.2	-147.2
pH	su	7.28	7.32	7.4	7.47	7.33	7.34	7.31	7.22	7.44	7.33	7.38	7.13	7.24	7.09	7.28	7.2	7.23	7.37	7.41
Temperature	deg c	13.6	11.7	9.9	7.5	7.8	10.6	13.2	15.3	15.9	9.2	9.4	15.4	16.1	9.6	9.3	15	14.9	10.5	10.1
Turbidity	NTU	0.02	1.53	0.02	0.02	0.02	1.25	5.01	0.02	0.02	0.02	1.6	0.02	0.08	1.36	0.69	3.11	3.95	1.27	4.03
Appendix III																				
Boron	mg/L	8.5	13	4.8	2.8	1.5	2.0	3.0 J+	7.2	12	8.1	3.2	4.8	7.1	5.2	4.5	6.4	12	14	12
Calcium	mg/L	240	130	300	380	320	320	350	240	150	230	290	270	190	270	220	290	200	140	130
Chloride	mg/L	95	84	78	62	52	53	72	73	88	62	38	59	73	71	39	95	72	74	46
Fluoride	mg/L	0.81	1.4	0.37	0.32	0.21	0.22	0.25	0.69	1.2	0.75	0.61	0.47	0.90	0.45	0.69	0.64	0.92	1.6	1.6
Sulfate (as SO4)	mg/L	13 J	10	42	180	210	87	17	1.8 J	< 0.41 U	< 0.41 U	14	< 2.2 U	< 1.1 U	< 2.2 U	< 2.2 U	5.4 J	17	< 0.58 U	7.2
Total Dissolved Solids	mg/L	970 J-	680	1200	1100	1200	1200	1100	930	1800	880	960	1000	890	1000	870	1100	850	710	760
Appendix IV																				
Antimony	mg/L	0.000082 J	0.00069	< 0.000050 U	< 0.000050 U	0.00028 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	0.00028	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00030	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0017	0.0041	0.0016	0.0011	0.00061	0.0010	0.0012 J+	0.0019	0.0023	0.0012	0.0013	0.0015	0.0016	0.0014	0.0020	0.0022	0.0044	0.0038	0.0041
Barium	mg/L	0.74	1.2	0.59	0.60	0.36	0.41	0.50	0.57	0.87	0.83	0.53	0.56	0.78	0.57	0.57	0.68	0.66	1.1	1.4
Beryllium	mg/L	< 0.000052 U	0.000091 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.00044	< 0.000052 U	0.000088 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000054 J	0.000098 J+	0.00011 J
Cadmium	mg/L	< 0.000032 U	0.00073	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00016 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00035	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00080	0.0086	0.0010	0.00087	0.00045	0.00052	0.0012	0.0018	0.00063	0.00062	0.00078	0.0010	0.00091	0.00086	0.0010	0.0013	0.0036	0.00095	0.0011
Cobalt	mg/L	0.00036 J	0.0012	0.00061	0.00072	0.00040 J	0.00040 J	0.00066 J+	0.00061	0.00023 J	0.00026 J	0.0024	0.00028 J	0.00032 J	0.00035 J	0.00027 J	0.00049 J	0.0026	0.00057 J-	0.00068
Fluoride	mg/L	0.81	1.4	0.37	0.32	0.21	0.22	0.25	0.69	1.2	0.75	0.61	0.47	0.90	0.45	0.69	0.64	0.92	1.6	1.6
Lead	mg/L	0.0025	0.068	0.0018 J	< 0.00022 U	< 0.0011 U	< 0.00050 U	0.0038 J+	0.00017 J	0.00036 J	0.00031 J	0.00043 J	0.00018 J	0.00041 J	0.00042 J	0.0012	0.0089	0.034	0.00060	0.0035
Lithium	mg/L	0.10	0.22	0.052	0.028	0.0059	0.0084	0.022	0.095	0.15	0.077	0.028	0.042	0.065	0.051	0.055	0.057	0.10	0.17	0.14
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0011	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000088	0.0000027	0.0000011	0.0000013	0.000013
Molybdenum	mg/L	0.0017	0.0029	0.0015	< 0.00062 U	< 0.00062 U	0.00043 J	0.00066 J+	0.0013	0.0015	0.00066 J	0.0030	0.0010 J	0.00062 J	0.00095 J	0.00099 J	0.0022	0.0039	0.0026	0.0043
Radium 226 and 228	pCi/L	1.19	1.32	< 0.91 U	1.07	1.67	0.812	< 1 U	1.76	0.764	1.13	< 0.775 U	< 0.575 U	2.61	1.35	--	1.1	< 1.43 U	< 0.841 U	< 0.948 U
Radium-226	pCi/L	0.445	0.422	0.352	0.304	0.406	0.228	0.243	0.409	0.469	0.514	0.205	0.275	0.319	0.61	--	< 0.391 U	0.547	0.324	0.325
Radium-228	pCi/L	0.75	0.903	< 0.91 U	< 0.84 U	1.26	< 0.721 U	< 1 U	1.35	< 0.624 U	< 0.765 U	< 0.775 U	< 0.575 U	2.3	0.74	--	0.832	< 1.43 U	< 0.841 UJ	< 0.948 U
Selenium	mg/L	0.00022 J	0.00031 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00014 J	0.00016 J+	0.00021 J	0.0002 J	0.00071	0.00041 J	0.00017 J	0.00015 J	0.00018 J	0.00015 J	0.00023 J	0.00033 J	0.00026 J+	0.00029 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00021 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	21	35	10	11	4.0	< 4.0 U	4.0	6.0	19	9.0	4.0	4.0	28	22	16	22	19	39	63
Michigan CCR Part 115																				
Copper	mg/L	0.00043	0.019	0.00047	< 0.00020 U	< 0.00020 U	0.00024 J	0.00056	0.0016	< 0.0002 U	0.00020 J	0.0021	0.00031	0.00028	0.00025	< 0.00020 U	0.00077	0.0064	0.00047 J-	0.0028
Iron	mg/L	8.7	10	4.9	6.1	3.6	3.8	4.2	6.7	11	8.5	5.6	7.1	9.5	8.2	7.6	10	7.3	18	18
Nickel	mg/L	0.0013	0.0094	0.0015	0.0012	0.00065 J	0.00068 J	0.0013	0.0018	0.0015	0.0011 J	0.0028	0.00098 J	0.0015	0.0015	0.0013	0.0019	0.015	0.0024	0.0029
Silver	mg/L	< 0.000050 U	0.00014	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	0.00017	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.00015	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	0.00062 J	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.0030	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00068 J	0.0010 J	0.00054 J-	0.00056 J
Zinc	mg/L	0.032	0.10	0.0085	< 0.0012 U	0.033	< 0.0012 U	0.0049	0.0031	0.0018	< 0.0012 U	0.0035	< 0.0012 U	0.032	0.041	0.0027	0.042	0.047	0.069	0.085
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	840	600	860	810	800	840	890	800	660	760	840	820	770	900	810	880	700	660	670
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	60	55	63	67	60	55	55	56	52	61	55	49	48	58	47	55	55	58	59
Potassium	mg/L	15	19	11	8.5	5.7	5.5	8.1	14	18	14	7.2	9.2	12	11	9.8	13	18	22	18
Sodium	mg/L	57	70	37	25	21	26	38	50	67	51	28	36	45	44	32	49	64	73	59
Total Alkalinity	mg/L	840	600	860	810	800	840	890	800	660	760	840	820	770	900	810	880	700	660	670

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/28/2022	1/3/2023	2/7/2023	3/13/2023	4/19/2023	5/23/2023	6/27/2023	8/7/2023	10/23/2023	2/13/2024	4/8/2024	7/17/2024	10/16/2024	2/26/2025	4/21/2025	8/13/2025	10/22/2025	2/18/2026	4/20/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	0.459	0.387	0.542	0.311	0.52	0.44	0.55	0.67	0.64	0.33	0.345	0.57	0.55	0.471	0.345	0.577	0.669	0.412	0.28
Dissolved Oxygen	mg/L	1.62	8.72	8.46	10.31	1.03	2.93	0.12	0.08	0.16	11.12	8.25	0.17	0.11	2.07	4.03	0.15	0.2	2.85	1.46
Oxidation Reduction Potential	mV	93.4	47.4	-14.8	87.6	26.2	131	54.9	-30.1	-118.7	36.8	125.4	-2.2	-38	-18.7	-21.7	-97.4	-90.1	-20.1	-27.6
pH	su	7.67	7	7.8	8.16	7.92	7.77	7.52	7.47	7.46	8.32	7.91	7.46	7.33	7.73	7.64	7.39	7.32	7.79	7.89
Temperature	deg c	8.8	3.3	1.3	3	9.7	13.9	17.5	20.9	15.9	3.5	6.5	19.5	17.6	3.7	8.2	21.6	17.1	4.4	12.7
Turbidity	NTU	0.02	0.02	0.02	0.02	0.02	1.92	0.02	0.02	0.31	0.02	0.02	0.02	0.02	0.02	0.02	7.13	0.02	6.01	0.86
Appendix III																				
Boron	mg/L	0.39	0.24	0.26	0.19	0.20	0.27	0.33 J+	0.36	0.42	0.22	0.25	0.41	0.40	0.36	0.23	0.44	0.62	0.23	0.14
Calcium	mg/L	77	46	78	77	55	63	64	95	95	40	40	74	79	59	41	69	99	52	37
Chloride	mg/L	24	16	27	18	16	15	17	22	26	17	12	18	18	27	15	16	17	19	9.0
Fluoride	mg/L	0.54	0.43	0.23	0.48	0.23	0.22	0.26	0.28	0.26	0.46	0.41	0.29	0.31	0.20	0.27	0.31	0.30	0.26	0.29
Sulfate (as SO4)	mg/L	180	130	180	120	110	99	110	130	130	84	68	62	52	100	61	53	58	55	25
Total Dissolved Solids	mg/L	360	210	340	200	260	270	330	420	200	100	210	380	330	300	200	350	400	260	140
Appendix IV																				
Antimony	mg/L	0.00071	0.0011	0.00076	0.00053	0.00094	0.00092	0.00064	0.00040	0.00041	0.00035	0.00053	0.00040	0.00084	0.0015	0.00068	0.00024 J	0.00017 J	0.0015	0.00099
Arsenic	mg/L	0.0028	0.0019	0.0018	0.0014	0.0019	0.0024	0.0029 J+	0.0034	0.0031	0.0016	0.0017	0.0032	0.0030	0.0015	0.0016	0.0052	0.0064	0.0020	0.0014
Barium	mg/L	0.030	0.017	0.024	0.025	0.022	0.032	0.043	0.053	0.06	0.022	0.025	0.071	0.10	0.051	0.038	0.11	0.14	0.050	0.063
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000066 J	< 0.00010 U
Cadmium	mg/L	0.00067	0.00078	0.0014	0.00062	0.0012	0.0016	0.0024 J+	0.0022	0.0011	0.00054	0.00082	0.0032	0.0028	0.0012	0.0015	0.011	0.0051	0.0027	0.00065 J+
Chromium, Total	mg/L	0.00034	0.00048	0.00046	0.00067	0.00054	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00099	0.00095	< 0.00020 UJ	0.00025	0.00041	0.00095	< 0.00020 U	0.00021 J	0.00042	0.00051
Cobalt	mg/L	0.00019 J	< 0.00010 U	0.00014 J	< 0.00010 U	< 0.00010 U	0.00026 J	0.00050 J+	0.00053	0.00038 J	< 0.00010 U	< 0.00010 U	0.00056	0.00093	0.00011 J	0.00015 J	0.0013	0.0028	0.00029 J	0.00013 J+
Fluoride	mg/L	0.54	0.43	0.23	0.48	0.23	0.22	0.26	0.28	0.26	0.46	0.41	0.29	0.31	0.20	0.27	0.31	0.30	0.26	0.29
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00015 J	0.00014 J+	0.00021 J	0.00021 J	< 0.00010 U	0.00039 J	0.00038 J	0.00047 J	0.00015 J	0.00051 J	0.00026 J	0.00020 J	0.00080	0.00041 J
Lithium	mg/L	0.0037	0.0033	0.0022 J	0.0025 J+	0.0037	0.0043	0.0064	0.0042	0.0048	0.0023 J	0.0019 J	0.0047	0.0059	0.0020 J	0.0019 J	0.0055	0.0047	< 0.0019 U	0.0041
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00016 J	< 0.00016 U	0.00023	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00000083	0.0000010	0.0000012	0.0000011	0.0000051
Molybdenum	mg/L	0.0087	0.0072	0.0067	0.0056	0.0057	0.0069	0.0082 J+	0.0088	0.0096	0.0051	0.0046	0.0064	0.018	0.0087	0.0059	0.0083	0.0080	0.0042	0.0063
Radium 226 and 228	pCi/L	< 0.543 U	< 0.459 U	< 0.685 U	< 0.619 U	0.809	1.09	< 0.59 UJ	< 0.578 UJ	< 0.517 U	< 0.749 U	0.769	< 0.602 UJ	1.07	< 0.86 U	0.589	1.12	0.989	< 0.525 U	0.833 J+
Radium-226	pCi/L	< 0.13 U	< 0.0702 U	< 0.0727 U	< 0.126 U	< 0.129 U	< 0.136 U	< 0.124 U	< 0.106 UJ	< 0.212 U	< 0.116 U	< 0.146 U	0.119	< 0.148 U	< 0.3 U	< 0.306 U	< 0.325 U	0.233	< 0.166 U	< 0.271 UJ
Radium-228	pCi/L	< 0.543 U	< 0.459 U	< 0.685 U	< 0.619 U	0.793	1.07	< 0.59 UJ	< 0.578 UJ	< 0.517 U	< 0.749 U	0.729	< 0.602 UJ	1.07	< 0.86 U	< 0.487 U	0.943	0.756	< 0.525 U	< 0.823 UJ
Selenium	mg/L	0.0015	0.0022	0.0023	0.00093	0.0017	0.00076	0.00021 J+	0.00013 J	0.00029 J	0.00089	0.0012	0.00014 J	0.00043 J	0.0043	0.0017	0.00028 J	0.00017 J	0.0045	0.00023 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	< 4.0 U	2.0 J	< 4.0 U	1.0 J	< 4.0 U	< 4.0 UJ	0.98 J+	< 4 U	< 4.0 U	< 4.0 U	< 3.9 U	< 4.0 U	< 4.0 U	< 4.0 U	6.0	< 4.1 U	< 4.0 U	< 4.0 U
Michigan CCR Part 115																				
Copper	mg/L	0.00055	0.00092	0.0010	0.0010	0.0015	0.0016	0.0012	0.00094	0.00071	0.0012	0.0013	0.0014	0.0019	0.0034	0.0022	0.0018	0.00088	0.0035	0.0031
Iron	mg/L	< 0.26 U	< 0.026 U	0.033 J	0.027 J	< 0.026 U	< 0.026 U	0.051	0.064	0.037 J	< 0.026 UJ	< 0.026 UJ	0.068	0.15	0.021 J	0.047 J	0.40	0.92	0.14	0.059
Nickel	mg/L	0.0025	0.0023	0.0035	0.0016	0.0021	0.0025	0.0031	0.0035	0.0026	0.0014	0.0014	0.0029	0.0034	0.0029	0.0019	0.0062	0.0073	0.0030	0.0010 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00085 J	0.0013	0.0012	0.00095 J	< 0.00062 U	< 0.00062 U	0.00087 J	0.0016	0.0021	0.00074 J	0.0010 J	0.00096 J	0.00046 J	0.0012	0.00094 J
Zinc	mg/L	0.0068	0.0080	0.0095	0.0037	0.0090	0.0074	0.0085	0.010	0.008	0.0027	0.0050	0.011	0.017	0.0073	0.0080	0.023	0.022	0.021	0.015
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	86	55	52	46	85	95	140	140	190	47	86	200	220	98	100	250	290	130	100
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	17	12	2.4	12	13	15	14	19	22	11	13	21	19	18	12	23	29	14	6.9
Potassium	mg/L	1.3	0.70	0.74	0.82	1.0	1.3	1.3	1.8	1.7	0.62	0.60	1.3	1.8	0.62	0.86	1.8	1.7	0.75	2.8
Sodium	mg/L	13	11	14	9.9	9.4	11	11	14	16	9.8	8.8	12	18	15	9.1	13	13	10	6.8
Total Alkalinity	mg/L	86	55	52	46	85	95	140	140	190	47	86	200	220	98	100	250	290	130	100

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-13	MW-13	MW-13	MW-13
Compliance Phase:		Assessment	Assessment	Assessment	Assessment
Sample Date:		8/13/2025	10/21/2025	2/18/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**				
Field Parameters					
Conductivity	mS/cm	1.46	1.287	1.94	1.74
Dissolved Oxygen	mg/L	0.15	0.12	0.27	0.24
Oxidation Reduction Potential	mV	17.3	-296.4	-164.8	-59.6
pH	su	7.45	7.36	7.27	7.25
Temperature	deg c	19.8	18.3	12.9	12.9
Turbidity	NTU	0.81	0.02	0.02	0.02
Appendix III					
Boron	mg/L	1.2	0.93	1.4	1.2
Calcium	mg/L	310	270	460	390
Chloride	mg/L	10	12	8.6	4.9
Fluoride	mg/L	0.73	0.44	0.64	0.44
Sulfate (as SO4)	mg/L	480	290	690	750
Total Dissolved Solids	mg/L	1100	940	1500	1100
Appendix IV					
Antimony	mg/L	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00025 J	0.00024 J	0.00043 J	0.00035 J
Barium	mg/L	0.088	0.095	0.20	0.11
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0015	0.0018	0.0019	0.0012
Cobalt	mg/L	< 0.00010 U	0.00013 J	< 0.00010 U	< 0.00010 U
Fluoride	mg/L	0.73	0.44	0.64	0.44
Lead	mg/L	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.047	0.036	0.053	0.035
Mercury	mg/L	0.00000028 J	< 0.00000016 U	< 0.00000016 U	< 0.00000016 U
Molybdenum	mg/L	0.0028	0.0019	0.00095 J	0.0053
Radium 226 and 228	pCi/L	< 0.796 U	0.804	0.97	1.26
Radium-226	pCi/L	< 0.353 U	< 0.21 U	0.366	0.28
Radium-228	pCi/L	< 0.796 U	< 0.668 U	< 0.772 U	0.985
Selenium	mg/L	0.00010 J	0.00011 J	0.00017 J	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	< 4.0 U	< 4.3 U	< 4.0 U
Michigan CCR Part 115					
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00025
Iron	mg/L	0.25	0.079	0.56	0.56
Nickel	mg/L	0.0024	0.00086 J	0.00098 J	0.0027
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00064 J	0.00072 J	0.00053 J	0.00028 J
Zinc	mg/L	0.0058	< 0.00048 U	0.019	0.013
Additional Parameters					
Bicarbonate Alkalinity	mg/L	370	430	560	370
Carbonate Alkalinity	mg/L	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	16	14	36	34
Potassium	mg/L	11	11	9.3	6.0
Sodium	mg/L	25	26	16	11
Total Alkalinity	mg/L	370	430	560	370

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/18/2024	10/17/2024	2/25/2025	4/21/2025	8/13/2025	10/21/2025	2/19/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**									
Field Parameters										
Conductivity	mS/cm	1.1	1.36	1.36	1.36	1.25	1.34	1.181	1.29	1.12
Dissolved Oxygen	mg/L	0.04	0.18	0.19	0.06	0.17	0.09	0.24	0.29	0.21
Oxidation Reduction Potential	mV	-90.4	-15.6	-135.9	-51.2	-111.6	-7.7	-110.2	-137.9	-126.3
pH	su	7.29	6.53	6.93	7.29	7.3	6.77	6.77	7.29	7.06
Temperature	deg c	7.1	17.6	18.2	4.5	8.1	20.8	18.2	4.5	12.6
Turbidity	NTU	0.02	0.02	0.02	0.59	0.02	0.02	1.07	1.81	0.02
Appendix III										
Boron	mg/L	0.22	0.43	0.39	0.27	0.29	0.50	0.42	0.29	0.21
Calcium	mg/L	190	250	230	280	230	260	230	250	200
Chloride	mg/L	14	21	20	18	17	23	22	23	17
Fluoride	mg/L	0.14	0.19 J	< 0.055 U	0.15 J	0.18	0.13 J	0.19 J	0.16 J	0.19 J
Sulfate (as SO4)	mg/L	60	< 2.2 U	< 1.1 U	90	140	8.7	1.1 J	130	190
Total Dissolved Solids	mg/L	680	830	790	910	850	790	700	840	760
Appendix IV										
Antimony	mg/L	< 0.00010 U	< 0.00010 U	0.00011 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0052	0.0034	0.017	0.0012	0.0045	0.0035	0.023	0.0063	0.014
Barium	mg/L	0.18	0.28	0.29	0.18	0.21	0.22	0.26	0.28	0.38
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000054 J	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00064	0.00085	0.0013	0.00051	0.00062	0.0015	0.0022	0.00057	0.00073
Cobalt	mg/L	0.00021 J	0.00017 J	0.00030 J	0.00039 J	0.00019 J	0.00018 J	0.00016 J	0.00021 J	0.00063
Fluoride	mg/L	0.14	0.19 J	< 0.055 U	0.15 J	0.18	0.13 J	0.19 J	0.16 J	0.19 J
Lead	mg/L	< 0.00010 U	< 0.00010 U	0.00013 J	0.00019 J	< 0.00010 U	< 0.00010 U	0.00028 J	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.016	0.025	0.024	0.020	0.020	0.027	0.025	0.021	0.015
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000043 J	< 0.00000016 U	0.00000029 J	< 0.00000016 U
Molybdenum	mg/L	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.00055 J
Radium 226 and 228	pCi/L	1.01	< 0.623 U	2.31	< 0.62 U	1.09	1.84	< 1.16 U	< 0.621 U	2.07
Radium-226	pCi/L	< 0.199 U	0.296	0.371	< 0.24 U	< 0.33 U	< 0.574 U	< 0.343 U	0.197	0.416
Radium-228	pCi/L	0.902	< 0.623 U	1.94	< 0.62 U	0.836	1.6	< 1.16 U	< 0.621 U	1.65
Selenium	mg/L	0.00012 J	0.00011 J	0.00015 J	< 0.00010 U	0.00013 J	0.00015 J	0.00025 J	0.00017 J	0.00013 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	16	11	40	4.0	17	< 4.0 U	31	16	29
Michigan CCR Part 115										
Copper	mg/L	0.00025	< 0.00020 U	< 0.00020 U	0.00031	< 0.00020 U	< 0.00020 U	0.00030	0.00035	0.00023 J
Iron	mg/L	7.1	6.7	13	4.7	6.7	0.99	12	7.9	12
Nickel	mg/L	0.00065 J	< 0.00065 U	0.0010 J	0.0028	0.0017	0.00055 J	0.0060	0.0088	0.0012
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	0.00066 J	0.00076 J	< 0.00062 U	< 0.00062 U	0.0010 J	0.0011 J	0.00038 J	0.00065 J
Zinc	mg/L	< 0.0012 U	< 0.0012 U	0.012	0.016	0.0012	0.013	0.00087 J	0.026	0.029
Additional Parameters										
Bicarbonate Alkalinity	mg/L	550	710	760	720	620	710	620	590	410
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	23	27	26	33	28	26	21	31	21
Potassium	mg/L	3.9	5.1	5.2	5.2	5.0	5.6	4.8	4.8	3.7
Sodium	mg/L	17	23	21	25	21	25	14	22	16
Total Alkalinity	mg/L	550	710	760	720	620	710	620	590	410

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/17/2024	10/16/2024	2/3/2025	4/20/2025	8/12/2025	10/22/2025	2/18/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**									
Field Parameters										
Conductivity	mS/cm	1.12	0.95	1.03	1.02	0.655	1.048	1.102	0.712	0.95
Dissolved Oxygen	mg/L	0.06	0.02	0.03	0.01	0.14	0.14	0.12	1.99	0.1
Oxidation Reduction Potential	mV	-157.2	-197.6	-194.5	-74.4	-128.6	-208.2	-169	-101.5	-192.4
pH	su	7.88	7.31	7.52	7.69	7.75	7.54	7.42	7.47	7.87
Temperature	deg c	9.1	20.3	18.6	6.7	9	20.7	18.1	5.7	9.6
Turbidity	NTU	0.02	0.21	1.02	3.69	1.01	0.02	1.07	0.02	0.02
Appendix III										
Boron	mg/L	0.79	0.75	0.89	0.58	0.52	1.0	0.92	0.32	0.46
Calcium	mg/L	160	140	130	130	120	150	150	98	120
Chloride	mg/L	43	33	47	34	34	36	32	10	21
Fluoride	mg/L	0.48	0.56	0.67	0.38	0.54	0.65	0.75	0.74	0.54
Sulfate (as SO4)	mg/L	4.8 J	33	7.3	27	4.4 J	0.79 J	< 0.58 U	50	1.1 J
Total Dissolved Solids	mg/L	620	620	580	600	560	620	620	360	470
Appendix IV										
Antimony	mg/L	< 0.00010 U	0.00016 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.0015	< 0.00010 U
Arsenic	mg/L	0.0018	0.0026	0.0024	0.0012	0.0013	0.0023	0.0020	0.0014	0.0016
Barium	mg/L	0.70	0.53	0.65	0.55	0.60	0.90	0.86	0.28	0.63
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000069 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00011 J	< 0.000075 U
Chromium, Total	mg/L	0.00076	0.0011	0.00081	0.00066	0.00090	0.00059	0.00055	0.0024	0.00054
Cobalt	mg/L	0.00033 J	0.00044 J	0.00052	0.00048 J	0.00030 J	0.00033 J	0.00033 J	0.00089	0.00026 J
Fluoride	mg/L	0.48	0.56	0.67	0.38	0.54	0.65	0.75	0.74	0.54
Lead	mg/L	0.00019 J	0.00042 J	0.00017 J	0.00077	0.00045 J	0.00014 J	< 0.00010 U	0.00052 J	0.00090
Lithium	mg/L	0.035	0.033	0.036	0.028	0.027	0.043	0.036	0.016	0.022
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000029 J	< 0.00000016 U	0.0000025	0.0000014
Molybdenum	mg/L	0.00079 J	0.0031	0.00077 J	0.00093 J	0.00078 J	0.00052 J	0.00042 J	0.013	0.00092 J
Radium 226 and 228	pCi/L	0.656	< 0.918 U	1.56	0.58	1.3	1.3	1.88	< 1 U	< 1.02 U
Radium-226	pCi/L	< 0.185 U	0.315	0.334	< 0.53 U	< 0.357 U	0.448	0.427	< 0.137 U	< 0.364 U
Radium-228	pCi/L	< 0.571 U	< 0.918 U	1.22	0.58	1.3	< 0.849 U	1.46	< 1 U	< 1.02 U
Selenium	mg/L	0.00014 J	0.00021 J	0.00013 J	0.00011 J	0.00021 J	0.00018 J	0.00017 J	0.0015	0.00017 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	9.0	9.0	12	10	14	4.0	< 4.1 U	< 4.2 U	15
Michigan CCR Part 115										
Copper	mg/L	0.00088	0.0016	0.00049	0.0010	0.0011	0.00033	< 0.00020 U	0.0063	0.0021
Iron	mg/L	6.6	3.5	3.8	4.1	4.8	4.7	4.4	1.9	4.4
Nickel	mg/L	0.0011 J	0.0020	0.0015	0.0011 J	0.0012	0.00092 J	0.00085 J	0.0086	0.00079 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00084 J	0.0013	0.00089 J	0.00077 J	0.00065 J	0.00060 J	0.00051 J	0.00094 J	0.00063 J
Zinc	mg/L	0.0026	0.0059	0.027	0.044	0.0087	0.0029	0.0020	0.074	0.048
Additional Parameters										
Bicarbonate Alkalinity	mg/L	530	460	500	480	500	550	530	300	510
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	30	24	24	24	24	27	25	19	22
Potassium	mg/L	15	16	16	12	12	17	15	8.8	11
Sodium	mg/L	59	39	56	49	47	56	48	22	38
Total Alkalinity	mg/L	530	460	500	480	500	550	530	300	510

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/5/2023	2/8/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/24/2023	2/13/2024	4/10/2024	7/17/2024	10/16/2024	2/26/2025	4/21/2025	8/12/2025	10/22/2025	2/19/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.54	2.06	1.788	1.554	1.4	1.52	1.62	1.46	1.6	1.51	1.69	1.64	1.69	1.85	1.49	1.304	1.067	1.69	0.99
Dissolved Oxygen	mg/L	0.09	0.19	0.72	0.22	0.34	0.15	0.29	0.05	0.3	0.05	0.4	0.04	0.02	0.47	0.42	0.16	0.25	0.96	1.63
Oxidation Reduction Potential	mV	66.8	-126.8	-70.8	-69.8	-31.3	-22.1	-88.4	-92.8	-80	132.6	-114.3	-143.3	-123.7	79.4	-86.7	-138.7	-101.1	-84.4	-80.9
pH	su	7.05	7.02	7.2	7.12	7.19	7.16	7.16	7.25	7.16	7.27	7.18	7.31	7.17	7.18	7.27	7.31	7.29	7.2	7.1
Temperature	deg c	9.9	6.5	5.2	3.8	6.3	11.3	17.2	17.8	15.3	5.5	7	17.3	16	5.3	7.3	18.7	15.9	6.5	10.7
Turbidity	NTU	0.02	0.02	0.09	0.02	0.52	0.02	0.02	7.06	0.59	0.02	0.02	4.07	1.39	4.55	2.18	0.02	5.24	0.02	0.86
Appendix III																				
Boron	mg/L	2.2	2.0	2.3	1.9	1.8	2.6	2.7 J+	2.3	3	3.5	4.0	3.9	3.9	4.4	3.7	4.2	4.4	3.1	1.5
Calcium	mg/L	450	410	380	330	270	340	240	250	360	370	350	330	330	410	270	250	240	330	190
Chloride	mg/L	28	26	22	19	16	19	24	27	22	24	16	27	24	32	19	26	23	13	16
Fluoride	mg/L	3.5	3.3	3.5	3.8	3.8	3.9	4.4	5.1	4.5	3.4	2.7	4.5	4.8	3.2	3.3	4.7	5.0	3.5	3.5
Sulfate (as SO4)	mg/L	1200	1200	480	740	660	780	760	620	800	980	790	750	740	1100	770	570	370	740	300
Total Dissolved Solids	mg/L	1800	1700	1600	1200	1200	1400	1400	1100	1400	1400	1400	1300	1300	1600	1200	1100	860	930	740
Appendix IV																				
Antimony	mg/L	0.00012 J	0.00013 J	0.00032 J	0.00014 J	0.00030	< 0.00050 U	0.00012 J	< 0.00010 U	0.00013 J	< 0.00050 U	0.00018 J	0.00011 J	0.00012 J	0.00023 J	0.00017 J	0.00010 J	0.0010	0.00041	0.0011
Arsenic	mg/L	0.029	0.020	0.023	0.019	0.021	0.015	0.029 J+	0.030	0.041	0.024	0.029	0.031	0.044	0.028	0.027	0.036	0.033	0.020	0.0097
Barium	mg/L	0.021	0.018	0.015	0.012	0.013	0.023	0.024	0.023	0.025	0.015	0.014	0.022	0.028	0.018	0.013	0.021	0.034	0.027	0.088
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000059 J	< 0.000052 U	< 0.000052 U	0.000053 J	< 0.000052 U	< 0.000052 U	0.000054 J	0.000060 J	< 0.00010 U
Cadmium	mg/L	0.00022 J	0.00030	< 0.00016 U	0.00018 J	0.00018 J	0.00044 J	0.00030 J+	0.000089 J	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00011 J	0.00010 J	< 0.000075 U	0.00090	0.00072	0.0010
Chromium, Total	mg/L	< 0.00018 U	< 0.00018 U	< 0.00018 U	< 0.00018 U	< 0.00018 U	0.00025 J+	< 0.00020 U	< 0.00020 U	< 0.0002 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00063	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00088
Cobalt	mg/L	0.0060	0.0054	0.0048	0.0032	0.0020	0.0019	0.0032 J+	0.0023	0.0017	0.0023	0.0020	0.0014	0.0016	0.0023	0.0019	0.0011	0.0017	0.0017	0.00080
Fluoride	mg/L	3.5	3.3	3.5	3.8	3.8	3.9	4.4	5.1	4.5	3.4	2.7	4.5	4.8	3.2	3.3	4.7	5.0	3.5	3.5
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00050 U	0.00016 J+	0.00032 J	0.00014 J	< 0.00050 U	< 0.00010 U	0.00015 J	0.00014 J	< 0.00010 U	< 0.00010 U	0.00025 J	0.00026 J	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.044	0.042	0.029	0.027	0.026	0.029	0.041	0.045	0.039	0.020	0.030	0.041	0.042	0.032	0.028	0.043	0.038	0.037	0.037
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000086	0.00000099	0.00000097	0.0000012
Molybdenum	mg/L	0.013	0.012	0.011	0.013	0.014	0.0090	0.019 J+	0.021	0.02	0.011	0.013	0.018	0.021	0.015	0.014	0.019	0.028	0.016	0.020
Radium 226 and 228	pCi/L	0.618	< 0.478 U	< 0.501 U	< 0.592 U	1.27	< 0.701 UJ	< 0.872 U	0.73	< 0.625 U	< 0.578 U	0.927	< 0.621 U	1.01	0.93	< 0.555 U	0.817	1.16	< 0.603 U	0.739
Radium-226	pCi/L	< 0.131 U	< 0.0981 U	< 0.083 U	< 0.202 U	< 0.137 U	< 0.122 UJ	< 0.124 U	< 0.105 U	< 0.209 U	< 0.114 U	< 0.191 U	< 0.1 U	< 0.149 U	< 0.23 U	< 0.352 U	< 0.459 U	< 0.285 U	< 0.188 U	< 0.111 U
Radium-228	pCi/L	0.584	< 0.478 U	< 0.501 U	< 0.592 U	1.24	< 0.701 UJ	< 0.872 U	0.713	< 0.625 U	< 0.578 U	0.906	< 0.621 U	0.991	0.83	< 0.555 U	< 0.562 U	1.16	< 0.603 U	0.651
Selenium	mg/L	0.00031 J	0.00041 J	0.00034 J	0.00086	0.00079	0.00016 J	0.00018 J+	0.00016 J	0.00082	0.0012	0.0020	0.00016 J	0.00014 J	0.00053	0.0011	0.00015 J	0.0023	0.0017	0.0066
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00016 J	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	12	4.0	13	2.0 J	6.0	6.0	11	7.9	11	< 4.0 U	100	15	14	4.0	11	12	9.3	11	4.0
Michigan CCR Part 115																				
Copper	mg/L	0.00043	0.00043	0.00043	0.00043	0.00062	0.00055	0.00088	0.0015	0.00047	0.00033	0.00048	0.00062	0.0017	0.00039	0.00047	0.00087	0.0021	0.00092	0.0041
Iron	mg/L	10	8.6	6.8	5.4	4.3	5.3	5.8	4.9	7	7.7	7.0	6.2	6.9	8.1	5.8	5.3	3.3	5.0	1.8
Nickel	mg/L	0.011	0.011	0.0094	0.0074	0.0051	0.0050	0.0075	0.0049	0.0047	0.0056	0.0053	0.0037	0.0049	0.0058	0.0056	0.0032	0.010	0.0059	0.0085
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00028 U	0.00036 J	< 0.00028 U	0.00031 J
Zinc	mg/L	0.074	0.088	0.060	0.068	0.043	0.038	0.061	0.028	0.054	0.042	0.038	0.017	0.031	0.045	0.048	0.016	0.21	0.13	0.14
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	160	110	100	130	140	130	150	200	200	120	120	180	220	100	120	220	270	160	230
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	37	36	33	26	22	29	28	21	30	42	39	33	35	50	36	30	26	40	17
Potassium	mg/L	11	12	11	9.4	8.7	10	11	11	11	8.9	9.1	10	10	8.4	7.1	8.9	8.6	8.1	5.7
Sodium	mg/L	21	20	21	17	15	18	20	20	20	24	23	23	23	31	22	22	22	19	13
Total Alkalinity	mg/L	160	110	100	130	140	130	150	200	200	120	120	180	220	100	120	220	270	160	230

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/3/2023	2/8/2023	3/13/2023	4/18/2023	5/22/2023	6/28/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/18/2024	10/16/2024	2/26/2025	4/21/2025	8/12/2025	10/22/2025	2/18/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.91	2.56	2.493	2.196	2.31	2.29	1.98	2.04	2.2	1.77	2.11	2.04	1.97	1.99	1.162	1.712	1.648	2	1.82
Dissolved Oxygen	mg/L	0.12	0.41	1.03	0.13	0.02	0.09	0.32	0.4	0.26	0.05	0.06	0.02	0.3	0.32	0.27	0.35	0.14	0.89	0.12
Oxidation Reduction Potential	mV	68.7	-134.8	-70.2	-77.1	-7.9	-118.4	-112.9	-36.8	-109.1	141.9	19.4	-152	-71.9	91.2	-19.3	-93.6	-35.7	-28.8	-19.5
pH	su	7	6.39	6.98	6.9	6.92	7.07	6.9	6.82	6.88	6.73	6.85	6.85	6.75	6.7	6.74	6.81	6.67	6.63	6.96
Temperature	deg c	9.2	7.3	6.3	5.7	8	11.4	13.9	16.7	15.8	5.9	8.5	16.6	15.9	5.2	7.6	15.8	15	6	9.3
Turbidity	NTU	0.02	1.6	2.27	0.02	2.59	0.02	0.02	0.02	0.02	2.48	0.02	0.02	0.02	2.98	0.02	0.02	3.82	0.02	2.37
Appendix III																				
Boron	mg/L	2.6	2.0	2.2	1.5	1.6	1.8	2.3 J+	1.9	2.6	1.8	1.5	2.0	2.5	2.4	1.6	2.7	3.4	2.3	1.7
Calcium	mg/L	530	510	550	510	450	480	460	360	470	490	480	440	400	470	370	450	410	380	380
Chloride	mg/L	75	64	66	46	42	40	37	38	50	39	23	34	40	27	21	37	37	22	17
Fluoride	mg/L	2.2	2.3	1.9	1.7	1.8	1.9	1.9	2.2	2	1.6	1.5	1.7	2.1	1.4	1.5	1.9	2.0	1.5	1.8
Sulfate (as SO4)	mg/L	1300	1300	600	1100	1200	1100	800	830	1100	1000	1000	940	850	960	890	910	860	800	770
Total Dissolved Solids	mg/L	2200 J-	2200	2200	2100	2000	2000	1600	1600	1900	1800	1700	1700	1600	1700	1600	1800	1600	1400	1500
Appendix IV																				
Antimony	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00072 J	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00046	0.00019 J	0.00011 J	0.00043	0.00062	< 0.00010 U
Arsenic	mg/L	0.0061	0.0055	0.0055	0.0043	0.0032	0.0031	0.0069 J+	0.0073	0.0067	0.0026	0.0044	0.0065	0.0069	0.0042	0.0037	0.0024	0.0026	0.0012	0.0010
Barium	mg/L	0.046	0.050	0.047	0.036	0.030	0.040	0.040	0.037	0.044	0.037	0.034	0.036	0.039	0.036	0.033	0.039	0.042	0.031	0.028
Beryllium	mg/L	< 0.000052 U	0.000063 J	< 0.00026 U	0.000061 J	0.000057 J	0.000071 J	0.000077 J+	0.000072 J	< 0.000052 U	0.000086 J	0.000085 J	0.000085 J	0.00011 J	0.000058 J	0.00012 J	0.000098 J	0.00011 J	0.00011 J	0.00015 J
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00030	0.00025	< 0.000075 U
Chromium, Total	mg/L	0.00027	0.00053	< 0.00088 U	0.00037	< 0.00018 U	< 0.00020 U	0.00031	0.00029	< 0.0002 U	< 0.00020 U	0.00025	0.00027	0.00027	0.00020 J	0.00027	0.00022 J	0.00024 J	0.00020 J	< 0.00020 U
Cobalt	mg/L	0.00046 J	0.00069	0.00078 J	0.00096	0.00069	0.00042 J	0.00050 J+	0.00044 J	0.00013 J	0.00023 J	0.00046 J	< 0.00010 U	0.00021 J	0.0012	0.00092	0.00018 J	0.0013	0.00066	0.00046 J
Fluoride	mg/L	2.2	2.3	1.9	1.7	1.8	1.9	1.9	2.2	2	1.6	1.5	1.7	2.1	1.4	1.5	1.9	2.0	1.5	1.8
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.099	0.11	0.099	0.090	0.11	0.085	0.090	0.098	0.089	0.073	0.074	0.090	0.087	0.084	0.073	0.088	0.085	0.078	0.072
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.00000026 J	< 0.00000016 U	0.00000018 J	< 0.00000016 U
Molybdenum	mg/L	0.013	0.011	0.0095	0.011	0.0090	0.0051	0.012 J+	0.013	0.01	0.0039	0.0099	0.0081	0.013	0.019	0.019	0.0097	0.021	0.019	0.0085
Radium 226 and 228	pCi/L	< 0.589 U	0.626	1.03	1.08	0.933	0.904	< 0.561 U	1.17	< 1.13 U	0.779	1.32	< 0.528 U	< 0.592 U	< 0.7 U	< 0.708 U	1.14	< 0.928 U	0.88	< 0.69 U
Radium-226	pCi/L	0.235	0.222	0.266	0.171	< 0.183 U	0.216	< 0.129 U	0.179	< 0.156 U	0.219	< 0.184 U	0.157	0.221	< 0.29 U	< 0.284 U	< 0.388 U	0.318	< 0.127 U	< 0.173 U
Radium-228	pCi/L	< 0.589 U	< 0.503 U	0.761	0.911	0.818	0.688	< 0.561 U	0.993	< 1.13 U	0.561	1.15	< 0.528 U	< 0.592 U	< 0.7 U	< 0.708 U	0.82	< 0.928 U	0.773	< 0.69 U
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.00012 J	< 0.00010 U	0.00012 J	0.00020 J	0.00013 J	0.00015 J	< 0.00010 U	0.00070	0.0036	0.00014 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	0.00012 J	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	27	25	16	6.0	23	19	29	33	26	17	6.0	34	37	15	18	22	14	< 4.2 U	7.0
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.0010 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	< 0.00020 U	0.00022 J	0.00035	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00040	0.00023 J	< 0.00020 U	< 0.00020 U
Iron	mg/L	15	18	16	13	12	13	16	15	24	20	17	21	21	17	14	14	8.2	8.6	8.3
Nickel	mg/L	0.0024	0.0028	< 0.0032 U	0.0024	0.0017	0.0011 J	0.0015	0.0015	0.0012	0.0012	0.0025	0.017	0.0039	0.0026	0.0029	0.0033	0.014	0.0051	0.0024
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00067 J	0.00055 J	0.00094 J	0.00060 J	0.00041 J
Zinc	mg/L	0.0023	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.0042	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.0019	0.0046	0.0042	0.0017	0.10	0.079	0.031
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	330	340	310	280	240	260	340	330	270	290	270	300	260	280	280	300	270	280	270
Carbonate Alkalinity	mg/L	< 1.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	49	42	45	38	43	45	32	30	39	39	35	33	36	37	31	39	38	33	33
Potassium	mg/L	18	22	16	20	16	16	15	17	16	15	14	14	14	15	13	15	15	12	12
Sodium	mg/L	48	40	44	37	38	38	36	31	37	33	30	29	30	32	25	32	32	26	21
Total Alkalinity	mg/L	330	340	310	280	240	260	340	330	270	290	270	300	260	280	280	300	270	280	270

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/4/2023	2/7/2023	3/13/2023	4/18/2023	5/23/2023	6/28/2023	8/7/2023	10/24/2023	2/13/2024	4/8/2024	7/17/2024	10/16/2024	2/26/2025	4/21/2025	8/13/2025	10/22/2025	2/19/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.2	1.24	1.232	1.218	1.37	1.41	1.17	1.18	1.26	1.17	1.45	1.12	1.09	0.95	0.64	0.966	0.995	1.07	1.05
Dissolved Oxygen	mg/L	0.24	0.1	0.02	0.12	0.16	0.05	0.32	0.26	0.72	0.21	0.03	0.01	0.83	0.02	0.26	0.13	0.12	0.14	0.28
Oxidation Reduction Potential	mV	-142	-148.2	-153.3	-153	-162.4	-159.7	-174.4	-105.9	-179.7	-128.7	-117.8	-178.3	-193.1	-38.1	-113.7	-165.2	-124.4	-135.1	-149.5
pH	su	7.23	7.5	7.29	7.2	7.44	7.45	7.3	7.14	7.33	7.45	7.45	7.34	7.34	7.44	7.43	7.31	7.21	7.35	7.24
Temperature	deg c	9.7	7.2	6.7	5.7	7.2	10.8	13.1	19.6	14.8	6.5	8.3	17	16.2	6.3	7.8	17.8	15.6	7.1	10.1
Turbidity	NTU	0.02	0.02	1.91	0.02	0.02	0.02	0.02	0.02	0.02	1.14	0.02	0.02	2.11	2.04	0.02	2.03	7.33	0.02	0.02
Appendix III																				
Boron	mg/L	1.1	0.83	0.87	0.82	0.80	0.92	1.1 J+	1.1	1.1	0.72	0.76	1.1	1.3	0.82	0.87	1.4	1.4	1.0	0.87
Calcium	mg/L	130	120	140	170	130	130	58	110	130	120	140	120	120	110	110	150	150	130	140
Chloride	mg/L	70	66	62	60	88	92	71	70	70	41	77	62	44	29	29	35	33	23	20
Fluoride	mg/L	0.55	0.26	0.24	0.26	0.21	0.21	0.22	0.23	0.23	0.25	0.27	0.29	0.12	0.22	0.29	0.30	0.25	0.25	0.20
Sulfate (as SO4)	mg/L	42	78	120	110	85	76	30	19	33	78	62	18	24	38	52	50	88	41	54
Total Dissolved Solids	mg/L	660	660	690	680	760	770	650	570	650	640	840	640	560	510	540	620	660	340	630
Appendix IV																				
Antimony	mg/L	0.000096 J	0.000054 J	0.000066 J	0.000062 J	0.00016 J	< 0.00010 U	0.00011 J	0.00014 J	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00010 J	0.00012 J	0.00012 J	< 0.00010 U	< 0.00010 U	0.00065	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.0015	0.0012	0.0012	0.0012	0.0013	0.0015	0.0016 J+	0.0017	0.0017	0.0011	0.0013	0.0018	0.0019	0.0010	0.0011	0.0019	0.0015	0.0011	0.0012
Barium	mg/L	0.94	0.61	0.47	0.37	0.31	0.42	0.43	0.49	0.53	0.42	0.45	0.46	0.82	0.48	0.46	0.67	0.54	0.31	0.33
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000059 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00039	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.00019 J	< 0.00018 U	0.00025	0.00029	0.00021 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00022 J	0.00026	0.00021 J	0.00022 J	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.0019	< 0.00020 U
Cobalt	mg/L	0.0013	0.0013	0.0016	0.0016	0.0014	0.0013	0.0014 J+	0.0011	0.00095	0.0011	0.0011	0.00089	0.0010	0.00069	0.00080	0.00091	0.0018	0.0011	0.00097
Fluoride	mg/L	0.55	0.26	0.24	0.26	0.21	0.21	0.22	0.23	0.23	0.25	0.27	0.29	0.12	0.22	0.29	0.30	0.25	0.25	0.20
Lead	mg/L	0.0023	0.0016	0.0016	0.0016	0.0028	0.0023	0.0028 J+	0.0023	0.0018	0.0013	0.0014	0.0020	0.0017	0.0018	0.0012	0.0022	0.0078	0.0022	0.0013
Lithium	mg/L	0.074	0.065	0.049	0.055	0.060	0.062	0.083	0.079	0.071	0.029	0.053	0.064	0.058	0.035	0.034	0.062	0.052	0.039	0.038
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000051	0.0000053	0.0000019	0.000011	0.0000075
Molybdenum	mg/L	0.0041	0.0039	0.0041	0.0038	0.0036	0.0048	0.0048 J+	0.0051	0.0047	0.0045	0.0033	0.0048	0.0058	0.0052	0.0035	0.0040	0.0046	0.0031	0.0024
Radium 226 and 228	pCi/L	1.47	0.822 J+	< 0.499 U	< 0.536 U	0.591	< 0.59 U	< 0.467 U	1.08	< 0.581 U	< 0.894 U	1.31	< 0.58 U	1	--	0.847	0.486	< 1.18 U	0.652	< 0.667 U
Radium-226	pCi/L	< 0.153 U	0.198	0.134	0.161	< 0.166 U	0.193	< 0.122 U	0.118	< 0.19 U	0.195	< 0.141 U	0.152	0.227	--	< 0.326 U	< 0.306 U	< 0.435 U	0.151	0.222
Radium-228	pCi/L	1.32	0.624 J+	< 0.499 U	< 0.536 U	0.541	< 0.59 U	< 0.467 U	0.958	< 0.581 U	< 0.894 U	1.18	< 0.58 U	0.775	--	0.746	< 0.479 U	< 1.18 U	< 0.612 U	< 0.667 U
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00013 J	0.00011 J+	0.00010 J	0.00011 J	0.00026 J	0.00013 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00043 J	0.00010 J	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.00011 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	40	42	33	37	44	42	37	37	38	33	43	34	38	26	29	41	24	4.1	24
Michigan CCR Part 115																				
Copper	mg/L	0.00034	0.00023 J	0.00023 J	< 0.00020 U	0.00024 J	0.00029	0.00036	0.00053	0.00025	0.00040	0.00034	0.00053	0.00082	< 0.00020 U	0.00020 J	0.00025	0.0033	0.00057	0.00058
Iron	mg/L	21	19	18	19	21	22	18	16	20	18	22	16	18	14	14	19	12	15	12
Nickel	mg/L	0.0091	0.0091	0.0095	0.0099	0.0092	0.0094	0.0098	0.0078	0.0066	0.0061	0.0077	0.0080	0.0067	0.0045	0.0063	0.0084	0.034	0.0098	0.0095
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00028 U	< 0.00028 U	< 0.00028 U	< 0.00028 U
Zinc	mg/L	0.071	0.024	0.028	0.029	0.060	0.028	0.030	0.025	0.024	0.016	0.024	0.020	0.056	0.015	0.013	0.058	0.11	0.044	0.040
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	540	470	470	460	520	540	470	460	560	460	570	470	500	430	440	460	480	460	500
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	57	53	52	56	57	62	47	48	53	45	55	41	41	36	37	40	43	40	40
Potassium	mg/L	13	13	11	12	13	12	13	13	12	8.5	11	10	9.1	6.9	6.9	7.0	7.7	6.4	6.6
Sodium	mg/L	65	59	57	56	63	79	67	57	61	48	80	57	47	43	41	37	45	38	39
Total Alkalinity	mg/L	540	470	470	460	520	540	470	460	560	460	570	470	500	430	440	460	480	460	500

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27	MW-27
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/5/2023	2/7/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/13/2024	4/8/2024	7/18/2024	10/17/2024	2/27/2025	4/21/2025	4/22/2025	8/12/2025	10/23/2025	2/17/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	2.46	2.01	1.651	1.047	1.04	1.65	2.5	2.57	2.99	1.65	1.06	2.79	3.47	2.32	0.955	--	3.36	3.307	2.03	0.7
Dissolved Oxygen	mg/L	1.35	0.17	0.24	0.93	0.07	0.19	0.04	0.23	0.05	1.64	0.12	0.03	0.24	1.5	0.29	--	0.18	0.04	0.29	0.19
Oxidation Reduction Potential	mV	-87.3	-137.6	-79.1	-134.3	-52.1	-80.9	-89	-104.5	-191.3	-62.8	-140.2	-129.9	-80.3	155.8	-46.2	--	-53	-101.9	-133.1	-127.5
pH	su	6.86	6.92	6.81	6.95	6.81	6.77	6.86	6.78	6.77	6.93	6.99	6.87	6.66	6.79	6.89	--	6.82	6.83	6.89	7.01
Temperature	deg c	8.7	6.7	5	4.5	7.2	11.7	16.5	20.8	15.2	5.6	7.5	19.6	16.9	4	7.6	--	20.3	16.3	5.5	12.2
Turbidity	NTU	0.02	0.73	1.33	0.02	4.08	3.32	3.55	8.15	9.71	3.01	2.31	7.9	9.44	6.08	1.77	--	1.72	7.75	0.02	0.02
Appendix III																					
Boron	mg/L	0.31	0.17	0.16	0.14	0.14	0.20	0.45 J+	0.44	0.32	0.16	0.18	0.44	0.50	0.21	0.27	--	0.54	0.54	0.25	0.25
Calcium	mg/L	200	180	180	180	100	130	180	150	190	160	130	170	170	210	130	--	170	190	160	61
Chloride	mg/L	120	84	69	60	38	52	110	100	110	44	17	89	120	97	86	--	120	120	130	9.3
Fluoride	mg/L	0.37	0.29	0.31	0.41	0.42	0.35	0.36	0.41	0.43	0.40	0.71	0.48	0.23	0.25	0.44	--	0.58	0.55	0.39	0.52
Sulfate (as SO4)	mg/L	6.8	41	58	47	14	1.8 J	0.56 J	3.0	2.4 J	72	41	2.3 J	1.4 J	40	27	--	1.0 J	2.9 J	86	10
Total Dissolved Solids	mg/L	920	710	790	620	460	590	790	690	870	1300	560	890	910	900	640	--	900	930	860	340
Appendix IV																					
Antimony	mg/L	0.00013 J	0.000075 J	0.000099 J	0.000060 J	0.00028	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00010 J	0.00012 J	< 0.00010 U	--	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00086	0.00070	0.00069	0.00069	0.00095	0.00096	0.0010 J+	0.0012	0.0011	0.00082	0.0012	0.0011	0.0012	0.00070	0.0011	--	0.0013	0.0012	0.00082	0.00062
Barium	mg/L	0.21	0.17	0.16	0.12	0.074	0.15	0.25	0.25	0.31	0.16	0.10	0.28	0.32	0.25	0.14	--	0.31	0.34	0.18	0.050
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	0.000058 J	0.000072 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.018	0.016	0.0097	0.0099	0.0083	0.025	0.027	0.034	0.028	0.0090	0.0073	0.033	0.050	0.014	0.011	--	0.041	0.059	0.014	0.0083
Cobalt	mg/L	0.00063	0.00056	0.00052	0.00043 J	0.00024 J	0.00063	0.00092 J+	0.00083	0.00075	0.00037 J	0.00016 J	0.00074	0.0011	0.00046 J	0.00035 J	--	0.00096	0.0014	0.00045 J	< 0.00010 U
Fluoride	mg/L	0.37	0.29	0.31	0.41	0.42	0.35	0.36	0.41	0.43	0.40	0.71	0.48	0.23	0.25	0.44	--	0.58	0.55	0.39	0.52
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	--	< 0.00010 U	0.00012 J	0.00043 J	0.00026 J
Lithium	mg/L	0.0086	0.0088	0.0067	0.0073	0.0075	0.0073	0.017	0.0093	0.0099	0.0050	0.0058	0.0099	0.0092	0.0058	0.0055	--	0.0093	0.0086	0.0053	0.0039
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	< 0.00000016 U	0.00000057	< 0.00000016 U	0.00000062	0.00000052
Molybdenum	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00041 J	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.00026 J	< 0.00025 U	< 0.00025 U	--	< 0.00025 U	0.00058 J	0.00057 J	< 0.00032 U
Radium 226 and 228	pCi/L	0.823	< 0.639 UJ	< 0.729 U	< 0.889 U	1.15	1.61	0.84	1.76	< 0.857 U	< 0.774 U	1.25	0.876	< 1.24 U	--	1.07	--	2.24	1.6	< 1.01 U	< 0.973 U
Radium-226	pCi/L	0.367	0.23	< 0.127 U	< 0.197 U	< 0.171 U	< 0.325 U	0.458	0.477	0.464	0.22	0.549	0.429	0.34	--	< 0.559 U	--	0.545	0.396	< 0.2 U	< 0.159 U
Radium-228	pCi/L	< 0.679 U	< 0.639 UJ	< 0.729 U	< 0.889 U	1.03	1.47 J	< 0.578 U	1.28	< 0.857 U	< 0.774 U	< 0.85 U	< 0.709 U	< 1.24 U	--	0.826	--	1.7	1.2	< 1.01 U	< 0.973 U
Selenium	mg/L	0.00023 J	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00016 J	0.00021 J+	0.00022 J	0.0002 J	0.00053	0.00014 J	0.00027 J	0.00032 J	0.00024 J	0.00020 J	--	0.00029 J	0.00029 J	0.00018 J	0.00012 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	34	27	22	14	5.0	11	19	11	22	23	9.0	6.0	26	20	13	--	11	4.2	11	< 4.0 U
Michigan CCR Part 115																					
Copper	mg/L	0.00030	< 0.00020 U	0.0016	< 0.00020 U	0.00022 J	0.00032	< 0.00020 U	0.00023 J	0.00024 J	< 0.00020 U	0.00039	< 0.00020 U	0.00022 J	< 0.00020 U	0.00037	--	0.00020 J	0.00024 J	0.0012	0.0014
Iron	mg/L	13	11	11	8.3	5.5	7.6	9.4	8.0	11	9.9	7.7	8.4	8.1	11	6.4	--	8.1	7.4	6.0	2.1
Nickel	mg/L	0.00077 J	0.0010 J	0.0010 J	0.00077 J	< 0.00065 U	0.00087 J	0.00067 J	0.00075 J	< 0.00065 U	0.00076 J	0.00073 J	< 0.00065 U	0.00094 J	0.00081 J	0.00089 J	--	0.00084 J	0.00098 J	0.00081 J	0.00052 J
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00082 J	0.00093 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.0018	0.0024	0.0010 J	0.0011 J	--	0.0020	0.0023	0.00097 J	0.00054 J
Zinc	mg/L	0.0096	< 0.0012 U	0.0016	< 0.0012 U	0.0079	0.0013	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.012	< 0.0012 U	< 0.0012 U	--	0.0027	0.00058 J	0.019	0.011
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	1200	880	800	590	480	770	1100	1100	1400	790	520	1300	1700	1100	650	--	1500	1700	840	370
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	--	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	45	45	47	44	26	31	33	35	40	55	39	45	44	52	39	--	45	44	51	25
Potassium	mg/L	7.6	7.3	6.2	5.8	4.1	6.5	11	12	11	4.9	3.5	9.8	11	8.0	5.1	--	12	12	5.5	1.6
Sodium	mg/L	92	68	59	61	41	52	75	80	82	59	41	72	82	99	69	--	90	90	91	31
Total Alkalinity	mg/L	1200	880	800	590	480	770	1100	1100	1400	790	520	1300	1700	1100	650	--	1500	1700	840	370

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/7/2024	7/18/2024	10/17/2024	2/27/2025	4/21/2025	8/14/2025	10/23/2025	2/18/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**									
Field Parameters										
Conductivity	mS/cm	1.18	1.46	1.22	1.83	1.005	1.561	1.363	0.89	0.93
Dissolved Oxygen	mg/L	0.08	0.01	0.17	0.16	0.29	0.07	0.2	0.13	0.13
Oxidation Reduction Potential	mV	-118.7	-158.8	-133.4	-32	-53.5	-121.5	-143.3	-22.8	-66
pH	su	7.02	6.94	6.84	6.9	6.98	6.89	6.97	6.63	7.08
Temperature	deg c	8.1	16.8	16	6.3	7.4	18.3	16	5.3	9.7
Turbidity	NTU	3.17	4.11	0.02	6.58	1.57	3.78	6.05	6.65	3.06
Appendix III										
Boron	mg/L	2.2	6.1	3.8	2.7	2.0	5.6	5.1	0.34	0.56
Calcium	mg/L	170	160	180	230	160	210	170	120	140
Chloride	mg/L	18	67	170	240	180	170	160	41	21
Fluoride	mg/L	0.90	1.5	1.4	0.94	0.97	1.4	2.0	0.40	0.50
Sulfate (as SO4)	mg/L	11	< 2.2 U	< 1.1 U	41	57	0.67 J	0.65 J	45	36
Total Dissolved Solids	mg/L	610	690	920	1100	900	920	820	480	540
Appendix IV										
Antimony	mg/L	0.00028	0.00016 J	0.00020 J	0.00073	0.00036	0.00018 J	0.00014 J	0.0021	0.0012
Arsenic	mg/L	0.0011	0.0014	0.0019	0.0020	0.0014	0.0038	0.0011	0.00076	0.0028
Barium	mg/L	0.34	0.70	0.76	0.75	0.42	0.75	0.75	0.15	0.32
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000091 J	0.000080 J	< 0.000075 U	< 0.000075 U	0.0037	0.00064
Chromium, Total	mg/L	0.017	0.0092	0.015	0.0075	0.0078	0.0093	0.0044	0.0018	0.016
Cobalt	mg/L	0.00064	0.00046 J	0.00041 J	0.0020	0.0031	0.0013	0.00024 J	0.0026	0.0024
Fluoride	mg/L	0.90	1.5	1.4	0.94	0.97	1.4	2.0	0.40	0.50
Lead	mg/L	0.0011	0.0013	0.00088	0.0052	0.0015	0.0041	0.00034 J	0.0076	0.015
Lithium	mg/L	0.050	0.15	0.12	0.084	0.054	0.13	0.15	0.0046	0.012
Mercury	mg/L	0.00024	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000075	0.0000041	0.00000055	0.000037	0.000032
Molybdenum	mg/L	0.00087 J	0.00054 J	0.0020	0.0027	0.0020	0.0021	0.0087	0.0044	0.0053
Radium 226 and 228	pCi/L	0.909	1.29	1.27	--	< 0.964 U	1.93	1.3	0.977	< 0.949 U
Radium-226	pCi/L	0.282	0.273	< 0.218 U	--	< 0.416 U	0.408	< 0.463 U	< 0.162 U	0.175
Radium-228	pCi/L	< 0.842 U	1.02	1.06	--	< 0.964 U	1.52	< 1.26 U	0.925	< 0.949 U
Selenium	mg/L	0.00032 J	0.00024 J	0.00028 J	0.00029 J	0.00028 J	0.00026 J	0.00030 J	0.0017	0.00039 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	44	86	120	75	66	110	98	< 4.0 U	32
Michigan CCR Part 115										
Copper	mg/L	0.00052	0.00090	0.00037	0.0013	0.0015	0.00055	< 0.00020 U	0.0098	0.0041
Iron	mg/L	30	37	47	43	26	47	39	1.5	9.9
Nickel	mg/L	0.0036	0.00072 J	0.0024	0.0073	0.0073	0.0017	0.00046 J	0.0058	0.0052
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00063 J	0.00074 J	0.00080 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.00050 J	0.00063 J	0.0010 J
Zinc	mg/L	0.0090	0.0067	0.031	0.083	0.11	0.047	0.0014	0.28	0.12
Additional Parameters										
Bicarbonate Alkalinity	mg/L	560	600	590	550	480	590	510	320	430
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	27	27	33	39	29	28	32	29	22
Potassium	mg/L	12	13	14	13	10	14	12	4.1	7.0
Sodium	mg/L	29	66	51	80	65	74	82	21	22
Total Alkalinity	mg/L	560	600	590	550	480	590	510	320	430

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/3/2023	2/6/2023	3/13/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/7/2024	7/18/2024	10/16/2024	2/25/2025	4/20/2025	8/11/2025	10/21/2025	2/16/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	2.26	3.18	3.025	2.273	2.73	2.66	2.85	2.67	2.21	2.68	2.61	2.93	3.06	5.15	3.38	4.412	4.248	4.61	3.16
Dissolved Oxygen	mg/L	0.12	0.39	0.04	0.35	0.29	0.05	0.01	0.12	0.41	0.14	0.03	0	0.06	0.01	0.26	0.1	0.06	0.1	0.33
Oxidation Reduction Potential	mV	-55.7	-281.2	-134.9	-148.7	-151.8	-86.8	-105.6	-92.7	-301.7	-73.8	-71.3	-198.6	-313.1	-21.4	-29.4	-192.5	-245.8	-240.3	-157.7
pH	su	7.07	6.48	7.16	7.25	7.17	7.16	7.21	6.94	7.05	7.18	7.15	7.06	7.02	6.82	7.02	6.96	7.03	7.19	6.97
Temperature	deg c	10.1	7.2	6.4	4.8	6.6	10.7	13.6	17	15	6.2	7.3	16.9	16	5.7	7.4	18.3	15.8	6.1	8.5
Turbidity	NTU	0.02	0.02	1.21	0.02	0.02	0.5	0.02	0.02	0.02	0.02	0.02	0.92	0.02	1.15	0.02	0.02	0.59	0.02	0.02
Appendix III																				
Boron	mg/L	2.2	1.7	2.1	3.5	1.7	1.9	1.9 J+	1.8	2.1	1.9	1.6	1.9	1.9	1.4	1.8	2.0	1.5	2.0	1.3
Calcium	mg/L	470	460	480	960	430	430	460	400	390	440	470	500	440	700	710	610	62	560	440
Chloride	mg/L	190	190	190	140	120	98	110	98	97	110 J+	82	190	430	1200	1100	1100	1000	890	350
Fluoride	mg/L	1.0	1.4	1.0	1.2	1.1	1.1	0.91	1.1	1.2	1.1	1.2	1.1	1.2	0.57	1.1	1.2	0.83	1.0	1.2
Sulfate (as SO4)	mg/L	780	1000	830	940	970	850	940	860	610	820	980	960	440	980	1000	840	580	620	860
Total Dissolved Solids	mg/L	2200 J	2400	2000	2300	2200	2100	2800 J	2300	1800	2100	2200	2300	2200	4000	4000	4300	3200	3000	2300
Appendix IV																				
Antimony	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	0.00040 J	< 0.00050 U	< 0.00050 U	< 0.00010 U	< 0.0001 U	< 0.00050 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00065 J	< 0.00010 U	< 0.00010 U	0.0012	0.00048	< 0.00010 U
Arsenic	mg/L	0.00046 J	0.00070	< 0.00050 U	0.00039 J	< 0.00010 U	0.00012 J	0.00027 J+	0.00043 J	0.00063	0.00021 J-	0.00044 J	0.00058	0.00097	0.0022 J	0.0030	0.0011	0.0080	0.0020	0.00078
Barium	mg/L	0.10	0.089	0.10	0.045	0.047	0.058	0.066	0.048	0.058	0.067 J-	0.051	0.041	0.079	0.098	0.071	0.062 J+	0.074	0.11	0.050
Beryllium	mg/L	< 0.000052 U	0.000053 J	< 0.00026 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.00011 J+	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 U	< 0.000052 U	0.000062 J	0.000069 J	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	0.00032	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.014	0.012	0.0087	0.010	0.0058	0.0052	0.012	0.013	0.0081	0.0049 J-	0.0075	0.010	0.012	0.0031	0.0065	0.0080	0.023	0.0056	0.0045
Cobalt	mg/L	0.00091	0.0044	0.00096 J	0.0028	0.0011	0.00054	0.0013 J+	0.0011	0.00053	0.0011	0.0015	0.00077	0.00047 J	0.046	0.0021	0.00047 J	0.00094	0.0055	0.00061
Fluoride	mg/L	1.0	1.4	1.0	1.2	1.1	1.1	0.91	1.1	1.2	1.1	1.2	1.1	1.2	0.57	1.1	1.2	0.83	1.0	1.2
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.00050 U	< 0.00050 UJ	< 0.00050 U	< 0.0001 U	< 0.00050 UJ	< 0.00010 U	< 0.00050 U	0.0017 J	< 0.00050 U	< 0.00050 U	< 0.00050 U	0.058	< 0.00050 U	< 0.00010 U
Lithium	mg/L	0.13	0.15	0.12	0.27	0.11	0.11	0.12	0.14	0.12	0.10	0.11	0.13	0.12	0.16	0.19	0.18	0.086	0.16	0.12
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00039	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	< 0.00000016 U	< 0.00000016 U	0.00000023 J	< 0.00000016 U
Molybdenum	mg/L	< 0.00062 U	0.0036	< 0.0031 U	0.0017	< 0.0031 U	0.00032 J	0.00082 J+	0.0011 J	0.00061 J	0.00073 J+	0.0013	0.00089 J	0.00051 J	0.019	0.0037	0.0012	0.032	0.0013	0.0046
Radium 226 and 228	pCi/L	< 0.873 UJ	0.445 J	< 0.624 UJ	< 0.659 U	0.875	< 0.783 U	0.586 J+	0.911	< 0.526 U	0.793 J+	< 0.559 U	0.68	< 1.12 U	1.05	< 0.695 U	1.43	< 0.769 U	< 0.911 U	1.28
Radium-226	pCi/L	< 0.238 UJ	0.139 J	< 0.0915 UJ	< 0.2 U	< 0.141 U	< 0.194 U	0.0986 J+	< 0.163 UJ	< 0.228 U	< 0.117 UJ	0.133	0.199	< 0.219 U	0.53	< 0.149 U	0.381	< 0.241 U	< 0.146 U	0.358
Radium-228	pCi/L	< 0.873 UJ	< 0.443 UJ	< 0.624 UJ	< 0.659 U	0.844	< 0.783 U	< 0.566 UJ	0.82	< 0.526 U	0.721 J+	< 0.559 U	< 0.537 U	< 1.12 U	0.52	< 0.695 U	1.05	< 0.769 U	< 0.911 U	0.921
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.0011 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	0.00011 J+	0.00012 J	0.00013 J	0.00039 J-	0.00010 J	0.00017 J	0.00024 J	< 0.00050 U	0.00014 J	0.00013 J	0.0015	0.00020 J	0.00015 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 UJ	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	< 0.000075 U
Total Suspended Solids	mg/L	4.0	11	< 4.0 UJ	5.0	6.0	4.0	< 4.0 U	5.0	4	< 4.0 U	5.1	18	8.0	8.0	38	15	5.1	7.4	8.0
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	0.00037 J+	< 0.0010 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00054	0.00024 J-	0.00028	< 0.00020 U	< 0.00020 U	< 0.0010 U	0.00020 J	< 0.00020 U	0.013	< 0.00020 U	< 0.00020 U
Iron	mg/L	0.87	3.6	0.99	8.8	4.1	2.4	2.9	2.9	1.4	2.0	4.9	5.9	2.1	2.5	17	4.5	1.2	0.96	4.2
Nickel	mg/L	0.00080 J	0.0045	< 0.0032 U	0.0041	0.0018	0.00070 J	0.0021	0.0011 J	< 0.00065 U	0.0018 J-	0.0019	0.0017	< 0.00065 U	0.11	0.0053	0.0013	0.012	0.0075	0.0014
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	0.00012	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 UJ	< 0.00062 U	< 0.0031 U	< 0.00062 U	0.00047 J	0.024	0.00042 J	< 0.00028 U
Zinc	mg/L	0.0053	< 0.0012 U	< 0.0059 U	< 0.0012 U	0.0049	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 UJ	< 0.0012 U	< 0.0012 U	0.0033	0.10	0.0027	0.0011 J	0.027	0.073	0.0098
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	930	760	880	660	630	640	< 0.16 U	690	780	690	570	630	770	550	540	660	740	750	530
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	110	120	120	250	120	110	120	100	95	110	120	110	99	190	180	150	5.4	140	90
Potassium	mg/L	12	15	16	17	12	9.6	11	13	10	10	8.9	11	11	18	18	19	74	16	11
Sodium	mg/L	120	110	120	220	98	95	95	88	82	89	73	82	120	330	400	330	81	310	170
Total Alkalinity	mg/L	930	760	880	660	630	640	< 0.16 U	690	780	690	570	630	770	550	540	660	740	750	530

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31	MW-31
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/1/2022	1/4/2023	2/7/2023	3/14/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/8/2024	7/17/2024	7/18/2024	10/15/2024	2/25/2025	4/20/2025	8/12/2025	10/21/2025	2/16/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																				
Field Parameters																					
Conductivity	mS/cm	1.35	1.4	1.327	1.23	1.28	1.21	1.24	1.41	1.23	1.1	1.26	1.32	--	1.26	1.15	0.996	1.377	1.151	2.14	1.9
Dissolved Oxygen	mg/L	1.65	0.09	0.21	0.11	0.11	0.09	1.39	0.05	0.15	0.05	0.04	0.23	--	0.66	0.2	0.14	2.34	2.01	3.39	0.39
Oxidation Reduction Potential	mV	-150	-262.2	-129.3	-214.9	-274.4	-220	-113.9	-55.8	-82.4	149.7	-130.1	-117.3	--	-73	-41.8	-105	123.2	-43.4	79.8	-168.5
pH	su	7.84	7.7	7.85	7.76	7.87	7.85	8	7.78	7.67	7.8	8.01	7.74	--	7.82	8.02	7.73	7.8	8.08	7.59	7.28
Temperature	deg c	8.7	7.6	6.3	4	6.5	13.2	14.4	17.8	14.9	7	10.2	19	--	14.1	6.3	10.4	16.2	14.4	7.1	9.3
Turbidity	NTU	2.61	0.02	1.27	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	--	0.02	0.97	0.02	22.1	12.3	26.9	6.61
Appendix III																					
Boron	mg/L	4.8	3.8	4.2	4.0	3.6	4.5	5.4 J+	4.8	5.1	4.4	4.5	5.4	--	5.8	4.5	4.4	6.4	7.0	6.6	6.2
Calcium	mg/L	180	190	170	200	170	160	130	150	170	170	200	170	--	150	150	200	160	130	330	270
Chloride	mg/L	120	100	110	97	94	92	110	110	100	99 J+	87	--	100	110	110	100	170	170	120	120
Fluoride	mg/L	4.6	4.9	4.7	4.6	5.1	5.2	4.7	5.1	4.6	4.5	4.7	--	4.7	4.5	4.1	4.5	4.0	3.3	2.8	3.2
Sulfate (as SO4)	mg/L	180	250	200	250	250	160	120	100	72	150	170	--	120	45	71	240	60	19	650	360
Total Dissolved Solids	mg/L	850	940 J	780	860	810	760	760	860	730	810	810	--	780	730	740	960	910	770	1500	1300
Appendix IV																					
Antimony	mg/L	0.000069 J	< 0.000050 U	0.000080 J	0.00012 J	0.00013 J	< 0.00010 U	< 0.00010 U	0.00012 J	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00038	--	0.00039	0.00069	< 0.00010 U	0.0011	0.00043	0.0011	0.00026
Arsenic	mg/L	0.0018	0.0013	0.0012	0.0010	0.0011	0.0014	0.0016 J+	0.0016	0.0012	0.0010	0.0012	0.0012	--	0.00095	0.0012	0.00073	0.0019	0.0015	0.0082	0.0055
Barium	mg/L	0.21	0.14	0.19	0.15	0.12	0.13	0.23	0.16	0.16	0.13	0.13	0.18	--	0.29	0.20	0.099	0.25	0.38	0.20	0.28
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000054 J	< 0.000052 U	< 0.000052 U	--	0.000096 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000090 J	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.000084 J	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.0021	0.0018	0.0024	0.0019	0.0019	0.0029	0.0023	0.0023	0.0025	0.0022	0.0017	0.0029	--	0.0041	0.0020	0.0031	0.0018	0.0040	0.0039	0.0065
Cobalt	mg/L	0.00015 J	0.00015 J	0.00020 J	0.00018 J	0.00016 J	0.00021 J	0.00018 J+	0.00018 J	0.00013 J	0.00028 J	< 0.00010 U	0.00010 J	--	0.00036 J	< 0.00010 U	< 0.00010 U	0.00016 J	0.00022 J	0.0011	0.00042 J
Fluoride	mg/L	4.6	4.9	4.7	4.6	5.1	5.2	4.7	5.1	4.6	4.5	4.7	--	4.7	4.5	4.1	4.5	4.0	3.3	2.8	3.2
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00031 J	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	< 0.00010 U	< 0.00010 U	0.00025 J	--	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00025 J	0.00045 J	0.00044 J	< 0.00010 U
Lithium	mg/L	0.052	0.048	0.052	0.054	0.046	0.053	0.056	0.054	0.049	0.039	0.039	0.052	--	0.063	0.043	0.030	0.051	0.058	0.073	0.083
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	0.00000071	0.0000017	0.0000014	0.0000027	0.0000016
Molybdenum	mg/L	0.0021	0.0013	0.0013	0.0011 J	0.0011 J	0.0012	0.0018 J+	0.0011 J	0.0013	0.0011 J	0.00052 J	0.00083 J	--	0.0011 J	0.0015	0.00040 J	0.0091	0.0033	0.013	0.0057
Radium 226 and 228	pCi/L	0.753	< 0.641 U	0.717	< 0.725 U	0.592	1.14	0.58	1.23	< 0.497 U	1.01	0.754	0.991	--	< 0.736 U	< 0.56 U	< 0.644 U	0.576	< 0.852 U	< 1.1 U	3.41
Radium-226	pCi/L	0.187	0.203	0.187	< 0.189 U	0.254	0.184	0.27	0.262 J+	< 0.208 U	0.171	0.345	0.274	--	0.27	< 0.24 U	< 0.14 U	< 0.277 U	< 0.26 U	< 0.16 U	0.469
Radium-228	pCi/L	0.566	< 0.641 U	0.53	< 0.725 U	< 0.527 U	0.959	< 0.489 U	0.97	< 0.497 U	0.842	< 0.502 U	0.717	--	< 0.736 U	< 0.56 U	< 0.644 U	< 0.573 U	< 0.852 U	< 1.1 U	2.94
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00011 J	0.00012 J+	0.00015 J	0.00014 J	0.00074	0.00013 J	0.00016 J	--	0.00010 J	< 0.00010 U	0.00012 J	0.00024 J	0.00022 J	0.038	0.00093
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.000088 J	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	2.0 J	4.0	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	1.0 J	< 4 U	< 4.0 U	< 3.9 U	--	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.1 U	24	11
Michigan CCR Part 115																					
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00027	< 0.00020 U	< 0.00020 U	< 0.0002 U	0.00023 J	0.00044	0.00029	--	0.00031	< 0.00020 U	< 0.00020 U	0.00033	0.0017	0.0032	0.00035
Iron	mg/L	2.5	1.4	1.5	1.1	0.77	1.2	0.92	0.21	0.13	0.19	0.12	0.14	--	0.23	0.22	0.15	0.84	0.39	5.7	4.2
Nickel	mg/L	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	< 0.00065 U	0.0023	< 0.00065 U	0.0021	--	0.0027	0.023	0.0014	0.24	0.068	0.64	0.011
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00064 J	--	0.00083 J	< 0.00062 U	0.00076 J	0.00045 J	0.00059 J	0.00069 J	0.00047 J
Zinc	mg/L	0.0082	< 0.0012 U	< 0.0012 U	< 0.0012 U	0.010	0.0014	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	< 0.0012 U	--	0.010	0.013	0.0016	0.0022	0.0018	0.029	0.027
Additional Parameters																					
Bicarbonate Alkalinity	mg/L	410	340	350	320	290	320	340	410	440	340	350	--	410	450	410	410	500	450	430	550
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	37	36	38	42	36	33	34	38	35	36	38	38	--	38	37	37	51	52	65	51
Potassium	mg/L	9.9	11	11	11	10	9.9	12	12	11	9.6	10	12	--	11	9.6	9.9	13	12	14	13
Sodium	mg/L	60	46	51	48	50	53	64	56	56	54	53	54	--	61	57	51	71	80	68	57
Total Alkalinity	mg/L	410	340	350	320	290	320	340	410	440	340	350	--	410	450	410	410	500	450	430	550

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32	MW-32
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		11/30/2022	1/4/2023	2/8/2023	3/14/2023	4/18/2023	5/22/2023	6/27/2023	8/8/2023	10/23/2023	2/12/2024	4/7/2024	7/17/2024	10/16/2024	2/25/2025	4/20/2025	8/11/2025	10/21/2025	2/16/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.29	1.29	1.258	1.175	1.29	1.2	1.05	0.99	1.14	0.96	1.21	0.99	1.07	1.07	0.758	0.897	1.05	1.39	1.38
Dissolved Oxygen	mg/L	0.07	0.08	0.08	0.1	0.1	0.33	0.12	0.13	0.29	0.09	0.04	0.18	0.11	0.01	0.11	0.09	0.19	0.13	0.22
Oxidation Reduction Potential	mV	-184.5	-222.8	-184.7	-188.5	-199.5	-221.7	-209.8	-141.4	-186.3	138.7	-178.6	-196	-197.4	-122.6	-143.2	-211.1	-191.3	-186.6	-191.2
pH	su	7.69	7.5	7.57	7.53	7.67	7.75	7.65	7.52	7.53	7.64	7.63	7.58	7.59	7.67	7.67	7.57	7.53	7.66	7.35
Temperature	deg c	10.2	8.3	6.6	6.3	7.4	11.1	13	15.9	14.9	7	8.1	15.6	15.8	7.3	8.5	16.7	15.2	7.3	9.1
Turbidity	NTU	0.02	0.02	2.17	0.02	0.02	0.02	0.02	0.02	0.02	4.52	0.02	0.02	0.02	5.04	4.21	0.02	7.07	0.34	3.4
Appendix III																				
Boron	mg/L	3.8	3.0	3.0	2.9	2.6	3.1	3.9 J+	3.7	5	3.0	3.1	4.0	5.6	3.0	2.8	5.1	5.7	4.0	3.2
Calcium	mg/L	200	180	190	220	190	190	150	130	150	180	190	140	160	160	160	150	170	230	230
Chloride	mg/L	47	50	50	50	45	42	41	44	47	39 J+	38	42	50	50	46	53	61	47	28
Fluoride	mg/L	1.5	1.5	1.4	1.6	1.4	1.5	1.4	1.6	1.8	1.5	1.6	1.5	1.9	1.2	1.4	1.5	1.2	1.1	1.1
Sulfate (as SO4)	mg/L	100	110	54	170	190	140	48	17	17	83	130	9.5	5.9	27	110	6.4	6.0	240	340
Total Dissolved Solids	mg/L	790	700	730	770	800	790	600	550	640	680	770	560	580	650	690	610	680	850	870
Appendix IV																				
Antimony	mg/L	0.000067 J	< 0.000050 U	< 0.000050 U	0.000072 J	0.00014 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.0001 U	0.00070	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U	< 0.00010 U
Arsenic	mg/L	0.00061	0.00045 J	0.00052 J	0.00047 J	0.00044 J	0.00055	0.00058 J+	0.00062	0.00058	0.0024	0.00046 J	0.00059	0.00064	0.00039 J	0.00042 J	0.00051 J	0.00048 J	0.00038 J	0.00039 J
Barium	mg/L	0.62	0.60	0.57	0.41	0.29	0.34	0.37	0.41	0.85	0.059	0.57	0.63	1.3	0.97	0.84	1.1	1.4	0.39	0.21
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	0.000070 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	0.00019 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00020 J	0.00036
Chromium, Total	mg/L	0.00046	0.00065	0.00057	0.00055	0.00039	0.00038	0.00032	0.00031	0.00031	0.0030	0.00038	0.00036	0.00050	0.00033	0.00035	0.00035	0.00040	0.00037	0.00037
Cobalt	mg/L	0.00034 J	0.00036 J	0.00039 J	0.00041 J	0.00031 J	0.00037 J	0.00068 J+	0.00058	0.00038 J	0.0019	0.00021 J	0.00046 J	0.00058	0.00022 J	0.00032 J	0.00052	0.00051 J	0.00057	0.0028
Fluoride	mg/L	1.5	1.5	1.4	1.6	1.4	1.5	1.4	1.6	1.8	1.5	1.6	1.5	1.9	1.2	1.4	1.5	1.2	1.1	1.1
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	0.00012 J	0.00014 J+	< 0.00010 U	< 0.0001 U	0.00038 J	< 0.00010 U	< 0.00010 U	0.00042 J	< 0.00010 U	< 0.00010 U	0.00039 J	< 0.00010 U	< 0.00010 U	< 0.00010 U
Lithium	mg/L	0.15	0.14	0.12	0.11	0.094	0.10	0.13	0.14	0.19	0.10	0.098	0.13	0.20	0.12	0.094	0.16	0.17	0.14	0.096
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0019	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00000016 U	0.0000012	0.00000064	0.00000034 J	< 0.00000016 U
Molybdenum	mg/L	0.0051	0.0043	0.0038	0.0032	0.0034	0.0045	0.0047 J+	0.0046	0.0045	0.0073	0.0034	0.0038	0.0045	0.0025	0.0026	0.0026	0.0011 J	0.0018	0.0020
Radium 226 and 228	pCi/L	0.614	< 0.497 U	< 0.601 U	< 0.732 U	0.877	0.847	< 0.607 U	0.985	< 0.589 U	< 0.53 U	< 0.545 U	< 0.57 U	0.732	0 J-	< 0.639 U	1.6	1.09	0.883	2.61
Radium-226	pCi/L	< 0.184 U	0.219	0.152	< 0.195 U	< 0.164 U	0.206	< 0.0916 U	0.403 J+	< 0.18 U	< 0.156 U	< 0.137 U	0.172	0.172	0 J-	0.217	0.573	0.339	< 0.112 U	0.252
Radium-228	pCi/L	0.492	< 0.497 U	< 0.601 U	< 0.732 U	0.773	0.641	< 0.607 U	< 0.848 U	< 0.589 U	< 0.53 U	< 0.545 U	< 0.57 U	< 0.603 U	-0.04 J-	< 0.639 U	1.02	0.749	0.793	2.36
Selenium	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00010 U	< 0.00010 UJ	< 0.00010 U	< 0.0001 U	0.0010	0.00013 J	< 0.00010 U	0.00014 J	< 0.00010 U	< 0.00010 U	< 0.00010 U	0.00010 J	< 0.00010 U	< 0.00010 U
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	42	43	39	40	39	31	29	11	23	32	34	23	20	29	36	26	48	59	56
Michigan CCR Part 115																				
Copper	mg/L	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	< 0.00020 U	0.00020 J	< 0.00020 U	< 0.00020 U	0.00041	0.016	< 0.00020 U	0.00031	0.00035	0.00023 J	< 0.00020 U	0.00030	< 0.00020 U	< 0.00020 U	0.00032
Iron	mg/L	20	18	18	19	18	17	15	11	11	17	16	12	13	14	15	15	21	25	22
Nickel	mg/L	0.0013	0.0016	0.0012	0.0012	0.00096 J	0.00088 J	0.0012	0.00086 J	0.00077 J	0.023	0.00095 J	0.00082 J	0.0010 J	0.00068 J	0.0019	0.00089 J	0.00080 J	0.0027	0.011
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00028 U	< 0.00028 U	< 0.00028 U	< 0.00028 U
Zinc	mg/L	0.031	0.0022	0.0026	0.0025	0.030	0.0037	0.0026	0.0030	0.0035	0.0049	0.0024	0.0024	0.058	0.068	0.0047	0.0046	0.0034	0.041	0.059
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	560	490	500	450	440	430	440	440	520	440	470	440	510	480	470	500	550	470	400
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	38	34	35	37	34	34	28	28	30	32	33	26	31	29	28	31	35	37	32
Potassium	mg/L	13	13	12	11	9.8	9.7	12	13	13	9.1	9.2	11	13	9.2	8.2	12	13	9.2	7.8
Sodium	mg/L	36	29	29	30	27	30	33	32	35	30	28	30	36	29	25	34	36	31	22
Total Alkalinity	mg/L	560	490	500	450	440	430	440	440	520	440	470	440	510	480	470	500	550	470	400

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33	MW-33
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/1/2022	1/5/2023	2/8/2023	3/15/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/12/2024	4/9/2024	7/18/2024	10/17/2024	2/3/2025	4/19/2025	8/12/2025	10/20/2025	2/17/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.1	0.99	0.949	0.859	0.91	0.92	0.901	0.98	1	0.78	0.85	1.21	1.11	0.716	0.631	1.16	1.601	0.694	0.77
Dissolved Oxygen	mg/L	0.81	1.02	0.75	0.2	0.23	0.06	0.05	0.01	0.02	0.4	0.23	0.01	0.1	0.49	0.26	0.26	0.31	1.74	0.17
Oxidation Reduction Potential	mV	-28.5	-72.8	-61.2	-37.4	-63.6	-86.2	-106.6	-121.9	-107.1	-11.1	-43	-185.9	-16.9	42	-48.4	12.4	-112.2	-33.8	15.3
pH	su	7.12	6.49	7.14	6.96	7.04	7.02	7.03	6.98	6.86	7.27	7.16	6.95	6.86	7.25	6.8	6.83	6.5	7.09	7.08
Temperature	deg c	8.3	4.8	2.4	3.6	8.8	10.7	13.7	17.2	15.8	7.1	7.5	16.4	16.4	6.8	7.8	17.8	16.9	5.5	9.5
Turbidity	NTU	0.02	0.02	1.17	0.02	3.44	0.55	0.02	1.07	3.25	3.07	4.13	1.49	2.13	1.72	0.02	0.02	2.65	0.99	1.01
Appendix III																				
Boron	mg/L	0.18	0.091	0.086	0.067	0.082	0.085	0.11 J+	0.12	0.16	0.078	0.065	0.10	0.15	0.056	0.21	0.16	0.17	0.040 J-	0.058
Calcium	mg/L	200	170	170	190	150	160	150	150	180	150	170	200	180	120	160	190	310	120	140
Chloride	mg/L	58	51	50	39	27	17	20	23	45	35 J+	20	36	64	35	41	47	48	29	17
Fluoride	mg/L	0.29	0.24	0.21 J	0.23	0.28	0.25	0.26	0.27	0.24	0.27	< 0.28 U	0.28	0.26	0.29	0.31	0.41	0.30	0.43	0.40
Sulfate (as SO4)	mg/L	100	58	65	42	23	1.9 J	4.3	1.6 J	69	20	17	3.7 J	98	22	22	41	370	50	41
Total Dissolved Solids	mg/L	750 J	630	680	590	580	600	600	570	690	550	600	740	760	500	640	720	1100	470	570
Appendix IV																				
Antimony	mg/L	0.00098	0.00088	0.00079	0.00059	0.0012	0.00017 J	0.00020 J	0.00015 J	0.00048	< 0.00050 U	0.00068	0.00035	0.0013	0.0011	0.00036	0.00042	0.00024 J	0.0011	0.0012
Arsenic	mg/L	0.0031	0.0014	0.0016	0.0017	0.0040	0.0038	0.0032 J+	0.0027	0.0027	0.0012	0.0030	0.021	0.0011	0.0012	0.0056	0.0087	0.0018	0.0013	0.0022
Barium	mg/L	0.084	0.086	0.092	0.076	0.073	0.095	0.088	0.098	0.09	0.44	0.063	0.16	0.087	0.043	0.10	0.18	0.24	0.049	0.059
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.00010 J+	< 0.00010 U
Cadmium	mg/L	0.000049 J	0.00010 J	0.00014 J	0.00015 J	< 0.00016 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	0.00023 J	< 0.00038 U	0.00023 J	< 0.000075 U	0.00010 J	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00012 J	0.00017 J
Chromium, Total	mg/L	0.0021	0.0028	0.0029	0.0027	0.0029	0.0039	0.0050	0.0059	0.0029	0.019	0.0032	0.011	0.0024	0.0035	0.0056	0.0093	0.0088	0.0043	0.0041
Cobalt	mg/L	0.00075	0.00049 J	0.00082	0.0017	0.0020 J	0.00083	0.00039 J+	0.00041 J	0.00053	0.0012	0.0022	0.00058	0.00064	0.00040 J	0.0031	0.00060	0.00069	0.00064	0.0021
Fluoride	mg/L	0.29	0.24	0.21 J	0.23	0.28	0.25	0.26	0.27	0.24	0.27	< 0.28 U	0.28	0.26	0.29	0.31	0.41	0.30	0.43	0.40
Lead	mg/L	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.00022 U	< 0.0011 U	0.00026 J	0.00015 J+	0.00015 J	0.00037 J	0.0014 J	0.00043 J	0.00013 J	0.00018 J	< 0.00010 U	0.00012 J	0.00017 J	0.00012 J	0.00019 J	0.00018 J
Lithium	mg/L	0.0051	0.0069	0.0043	0.0047	0.0061	0.0052	< 0.0094 U	0.0041	0.0054	0.0028	0.0046	0.0069	0.0053	0.0030	0.0049	0.0063	0.0050	0.0021 J-	0.0035
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 UJ	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000029	0.0000016	0.0000060	0.0000051 J-	0.0000063
Molybdenum	mg/L	0.0047	0.0037	0.0031	0.0031	0.0060 J	0.0026	0.00068 J+	0.00052 J	0.0032	0.00027 J	0.0030	0.0014	0.0067	0.0057	0.0048	0.0017	0.0015	0.0074	0.0071
Radium 226 and 228	pCi/L	0.825	< 0.587 U	0.949	< 0.852 U	< 0.815 U	1.61	0.828	1.15	< 0.621 U	< 0.892 U	< 0.846 U	0.915	< 0.964 U	0.31 J-	< 1.46 U	1.11	7.89	< 0.982 U	< 0.966 U
Radium-226	pCi/L	< 0.267 U	< 0.14 U	< 0.125 U	< 0.204 U	< 0.232 U	< 0.256 U	0.154	0.276 J+	< 0.282 UJ	< 0.162 U	< 0.328 U	< 0.144 U	< 0.226 U	-0.03 J-	< 0.346 U	0.0278 J-	0.918	< 0.234 UJ	< 0.286 U
Radium-228	pCi/L	0.794	< 0.587 U	0.833	< 0.852 U	< 0.815 U	1.48 J	< 0.768 U	0.875	< 0.621 UJ	< 0.892 U	< 0.846 U	0.773	< 0.964 U	0.31 J-	< 1.46 U	1.08	6.98	< 0.982 UJ	< 0.966 U
Selenium	mg/L	0.00089	0.00076	0.00055	0.00038 J	< 0.0011 U	0.00033 J	0.00033 J+	0.00029 J	0.00059	0.00054	0.00053	0.00058	0.0010	0.00098	0.00053	0.00052	0.00048 J	0.0014	0.00061
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	2.0 J	5.0	10	1.0 J	9.0	17	21	22	10	6.0	5.0	80	< 4.0 U	< 4.0 U	27	70	57	< 4.1 U	4.0
Michigan CCR Part 115																				
Copper	mg/L	0.0079	0.016	0.016	0.020	0.0067	0.0017	0.0011	0.00079	0.0032	0.00099	0.013	0.00085	0.015	0.032	0.0042	0.00090	0.0011	0.037	0.027
Iron	mg/L	1.2	2.5	2.8	2.5	4.6	7.4	7.7	8.7	4.4	1.1	1.2	29	0.067	0.078	8.9	25	20	1.2	0.44
Nickel	mg/L	0.020	0.016	0.017	0.019	0.023	0.014	0.0081	0.0049	0.0077	0.0036	0.026	0.014	0.014	0.018	0.028	0.012	0.0097	0.016	0.027
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	0.00011	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	< 0.00062 U	0.00065 J	0.00079 J	< 0.00062 U	< 0.00062 U	0.00097 J	0.0033	0.0014	0.00088 J	0.00095 J	0.0015	0.0013	0.0011 J	0.0011 J
Zinc	mg/L	0.0071	0.0036	0.0050	0.0053	0.012	0.0014	< 0.0012 U	< 0.0012 U	0.018	0.0035	0.0072	0.0017	0.011	0.0059	0.0092	0.0029 J+	0.0033	0.013	0.017
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	460	430	400	390	440	480	440	480	420	330	430	550	390	320	460	520	440	250	350
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	22	19	18	17	16	18	16	16	19	16	19	21	17	12	18	19	25	11	14
Potassium	mg/L	3.8	5.4	4.6	4.1	4.0	4.1	4.4	5.1	4.9	3.4	3.1	5.7	4.6	2.4	4.5	6.1	6.1	2.1	2.8
Sodium	mg/L	38	25	24	26	22	22	23	22	30	25	17	21	26	19	20	24	25	12	8.7
Total Alkalinity	mg/L	460	430	400	390	440	480	440	480	420	330	430	550	390	320	460	520	440	250	350

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34	MW-34
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/1/2022	1/5/2023	2/8/2023	3/15/2023	4/18/2023	5/22/2023	6/27/2023	8/7/2023	10/23/2023	2/12/2024	4/9/2024	7/18/2024	10/17/2024	2/26/2025	4/21/2025	8/12/2025	10/20/2025	2/17/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	2.14	1.07	1.96	1.49	1.86	1.89	2.05	2.05	1.93	1.82	1.8	2	1.9	1.83	1.86	1.98	2.032	1.95	1.79
Dissolved Oxygen	mg/L	0.87	1.19	0.29	0.45	1.05	2.73	0.09	0.97	0.7	1.92	0.05	0.33	0.82	0.14	0.15	0.29	0.21	0.52	0.44
Oxidation Reduction Potential	mV	-120.5	-104.4	-119.7	-95	-63.4	-100.5	-113.8	-124.6	-163.1	-98.9	-72.8	-139	-122.7	-30.7	-83.9	-71.8	-109.9	-119.1	-104.3
pH	su	6.65	7.66	6.78	6.68	6.53	6.6	6.75	6.69	6.62	6.63	6.61	6.7	6.49	6.59	6.62	6.65	6.56	6.59	6.58
Temperature	deg c	12.9	4.9	9.4	7.8	8	10.3	12.4	14.6	14.8	9.8	8.9	14.2	15.2	9	8.8	6.3	15.5	8.9	9.9
Turbidity	NTU	4.96	0.02	5.58	2.11	5.87	0.02	0.02	3.15	1.77	4.76	1.39	1.6	2.76	3.11	1.26	6.32	7.81	8.6	6.4
Appendix III																				
Boron	mg/L	3.2	2.7	1.9	1.8	1.6	2.5	4.0 J+	3.6	4.1	1.9	1.8	2.9	2.2	2.1	1.9	2.6	3.9	1.9	1.6
Calcium	mg/L	220	190	220	210	210	210	220	190	220	210	230	220	200	220	210	220	240	230	220
Chloride	mg/L	33	27	24	23	23	22	23	24	25	20 J+	16	22	20	19	21	21	22	21	18
Fluoride	mg/L	0.35	0.20	0.23	0.24	0.21	0.23	0.26	0.29	0.28	0.21	0.22	0.31	0.096 J	0.22	0.32	0.40	0.38	0.33	0.29
Sulfate (as SO4)	mg/L	2.5 J	1.9 J	< 0.41 U	0.87 J	0.56 J	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 1.1 U	< 2.2 U	< 1.1 U	< 2.2 U	< 2.2 U	0.65 J	1.1 J	0.59 J	0.87 J
Total Dissolved Solids	mg/L	820	750	800	790	700	760	820	770	800	730	730	760	710	720	750	720	790	720	790
Appendix IV																				
Antimony	mg/L	0.00023 J	0.00011 J	0.000095 J	0.00013 J	0.00091 J	0.00010 J	0.00016 J	0.00015 J	0.00014 J	< 0.00050 U	0.00013 J	0.00029	0.00021 J	0.00019 J	0.00013 J	0.00013 J	0.00015 J	0.00015 J	0.00020 J
Arsenic	mg/L	0.0016	0.0010	0.00088	0.00090	0.00089 J	0.0010	0.0013 J+	0.0012	0.0013	0.00017 J-	0.00085	0.0010	0.0010	0.00072	0.00075	0.00092	0.0011	0.00070	0.0013
Barium	mg/L	0.54	0.54	0.58	0.50	0.17	0.49	0.53	0.49	0.52	0.066 J-	0.46	0.52	0.48	0.47	0.54	0.57	0.52	0.51	0.47
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00026 U	0.000059 J	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 UJ	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000083 J	< 0.00010 U
Cadmium	mg/L	0.000036 J	< 0.000032 U	< 0.000032 U	< 0.000032 U	< 0.00016 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	0.024	0.022	0.025	0.029	< 0.00088 U	0.027	0.034	0.028	0.019	0.0050 J+	0.026	0.023	0.023	0.018	0.025	0.024	0.025	0.021	0.024
Cobalt	mg/L	0.0015	0.0013	0.0013	0.0013	< 0.00050 U	0.0014	0.0018 J+	0.0016	0.0013	0.00061	0.0011	0.0010	0.0012	0.00090	0.0010	0.0011	0.0013	0.0015	0.0016
Fluoride	mg/L	0.35	0.20	0.23	0.24	0.21	0.23	0.26	0.29	0.28	0.21	0.22	0.31	0.096 J	0.22	0.32	0.40	0.38	0.33	0.29
Lead	mg/L	0.0069	0.0016	0.00059	0.00094	< 0.0011 U	0.00074	0.00087 J+	0.00091	0.00063	< 0.00050 UJ	0.00038 J	0.00047 J	0.00049 J	0.00041 J	0.00028 J	0.00054 J	0.00058	0.00029 J	0.0014
Lithium	mg/L	0.077	0.086	0.053	0.012	0.046	0.065	0.088	0.10	0.099	0.043	0.057	0.079	0.065	0.057	0.056	0.073	0.086	0.054	0.045
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000016	0.0000020	0.0000015	0.0000012	0.0000033
Molybdenum	mg/L	0.0018	0.00081 J	< 0.00062 U	< 0.00062 U	0.0079	0.0018	0.00030 J+	< 0.00025 U	< 0.00025 U	< 0.00025 UJ	< 0.00025 U	< 0.00025 U	0.00041 J	< 0.00025 U	< 0.00025 U	< 0.00025 U	< 0.00025 U	0.0021	0.00048 J
Radium 226 and 228	pCi/L	2.02	1.15	1.28	1.34	1.99	1.81	2.79	1.24	2.4	1.86 J+	2.2	1.76	2.07	--	2.62	1.7	1.55	1.4	1.59
Radium-226	pCi/L	0.57	0.534	0.654	0.558	0.396	0.561	0.357	0.637 J+	0.699	0.527	0.602	0.427	0.369	--	< 0.656 U	< 0.391 U	0.59	0.452	0.329
Radium-228	pCi/L	1.45	< 0.849 U	< 0.918 U	0.78	1.59	1.25 J	2.44	< 0.862 U	1.7	1.33 J+	1.59	1.33	1.7	--	2.12	1.35	< 1.12 U	0.947	1.26
Selenium	mg/L	0.00034 J	0.00025 J	0.00027 J	0.00023 J	< 0.0011 U	0.00029 J	0.00030 J+	0.00027 J	0.00031 J	0.00039 J-	0.00028 J	0.00028 J	0.00030 J	0.00026 J	0.00026 J	0.00024 J	0.00029 J	0.00030 J	0.00016 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	110	52	83	44	160	160	170	130	150	120	160	150	140	97	160	140	130	100	110
Michigan CCR Part 115																				
Copper	mg/L	0.0034	0.00075	0.00033	0.0085	< 0.0010 U	0.00069	0.00045	0.00043	0.00045	0.00024 J	0.00040	0.00058	0.00055	0.00029	0.00028	0.00026	0.00049	0.00064	0.00087
Iron	mg/L	73	70	83	78	75	77	77	64	70	72	76	65	59	64	69	72	55	72	50
Nickel	mg/L	0.0016	0.0013	0.0012	0.0013	< 0.0032 U	0.0016	0.0020	0.0018	0.0015	0.00089 J	0.011	0.019	0.028	0.041	0.012	0.011	0.0090	0.013	0.041
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.0031 U	0.00065 J	0.00069 J	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00090 J	0.0011 J	0.0012	0.00078 J	0.0010 J	0.0010 J	0.0011 J	0.0013	0.0012
Zinc	mg/L	0.031	0.0019	0.0023	0.0023	0.020	0.0015	0.0018	0.0017	0.0021	< 0.0012 UJ	0.0014	0.0033	0.021	0.0036	0.0026	0.0025	0.0021	0.038	0.049
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	1100	950	920	890	880	950	970	970	1000	830	950	960	920	900	930	950	510	970	920
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.31 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	30	23	22	21	20	24	27	26	29	23	25	25	22	23	24	25	26	24	21
Potassium	mg/L	11	13	9.5	8.5	8.4	8.9	12	13	13	8.8	8.0	10	8.6	8.3	8.2	9.7	12	7.9	9.4
Sodium	mg/L	34	30	28	22	23	30	38	33	38	26	25	29	25	26	24	27	31	22	18
Total Alkalinity	mg/L	1100	950	920	890	880	950	970	970	1000	830	950	960	920	900	930	950	510	970	920

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36	MW-36
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/17/2024	10/16/2024	2/26/2025	4/21/2025	8/12/2025	10/21/2025	2/18/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**									
Field Parameters										
Conductivity	mS/cm	0.658	0.66	0.7	0.614	0.4807	0.78	0.828	0.709	0.73
Dissolved Oxygen	mg/L	0.08	0.02	0.01	0.06	0.12	0.06	0.11	0.23	0.06
Oxidation Reduction Potential	mV	-207.1	-331.7	-230.1	130.6	-223	-18.2	-192.3	-266.3	-319.9
pH	su	10.42	9.89	8.79	9.54	8.95	8.97	7.07	9.26	9.22
Temperature	deg c	8.4	19.1	18.3	5.4	8.2	20.8	17.7	6.6	9.4
Turbidity	NTU	5.41	2.01	1.11	2.82	0.02	0.67	1.37	5.93	0.02
Appendix III										
Boron	mg/L	0.28	0.41	0.61	0.25	0.41	0.54	0.54	0.30	0.29
Calcium	mg/L	67	61	61	56	72	73	81	70	72
Chloride	mg/L	34	39	38	34	32	32	29	25	17
Fluoride	mg/L	0.61	0.65	0.92	0.61	0.72	0.90	0.68	0.67	0.53
Sulfate (as SO4)	mg/L	5.7 J	21	10	10	6.8	5.9 J	17	8.5	21
Total Dissolved Solids	mg/L	330	460	390	400	450	480	470	420	410
Appendix IV										
Antimony	mg/L	0.00076	0.0015	0.00075	0.0029	0.00076	0.00080	0.0020	0.00057	0.00082
Arsenic	mg/L	0.029	0.029	0.013	0.012	0.0093	0.012	0.0071	0.0092	0.012
Barium	mg/L	0.15	0.17	0.20	0.13	0.25	0.25	0.23	0.17	0.22
Beryllium	mg/L	0.000059 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	0.00032	0.00082	0.00019 J	0.00046	0.000094 J	0.00020 J	0.00015 J	0.00010 J	< 0.000075 U
Chromium, Total	mg/L	0.0013	0.0031	0.0018	0.0021	0.0011	0.0015	0.00097	0.0011	0.00063
Cobalt	mg/L	0.00027 J	0.00027 J	0.00018 J	0.00028 J	0.00018 J	0.00017 J	0.00016 J	0.00021 J	0.00017 J
Fluoride	mg/L	0.61	0.65	0.92	0.61	0.72	0.90	0.68	0.67	0.53
Lead	mg/L	0.025	0.051	0.012	0.032	0.0060	0.016	0.010	0.0075	0.0045
Lithium	mg/L	0.0057	0.0089	0.012	0.0042	0.010	0.014	0.012	0.0073	0.0092
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000063	0.0000099	0.0000039	0.000011	0.0000055
Molybdenum	mg/L	0.019	0.042	0.034	0.037	0.017	0.025	0.022	0.023	0.026
Radium 226 and 228	pCi/L	< 0.861 U	< 1.4 UJ	1.08	--	< 0.933 U	< 0.892 U	< 1.12 U	< 0.93 U	< 0.849 U
Radium-226	pCi/L	0.467	< 0.207 UJ	< 0.194 U	--	< 0.319 U	0.117 J+	< 0.353 U	< 0.126 U	< 0.26 U
Radium-228	pCi/L	< 0.861 U	< 1.4 UJ	0.959	--	< 0.933 U	0.151 J-	< 1.12 U	< 0.93 U	< 0.849 U
Selenium	mg/L	0.00060	0.00072	0.00065	0.00064	0.00049 J	0.00049 J	0.00046 J	0.00065	0.00090
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	38	4.0 J+	< 4.0 U	5.0	< 4.0 U	< 4.0 U	< 4.1 U	< 4.1 U	22
Michigan CCR Part 115										
Copper	mg/L	0.0077	0.019	0.0086	0.011	0.0025	0.0041	0.0031	0.0026	0.0018
Iron	mg/L	0.40	0.35	0.44	0.39	1.1	0.80	0.91	0.52	0.95
Nickel	mg/L	0.011	0.0084	0.0054	0.0066	0.0056	0.0048	0.0032	0.0048	0.0056
Silver	mg/L	0.00021	0.00057	0.00011	0.00023	0.000051	0.00011	0.000077	0.000056	< 0.000050 U
Vanadium	mg/L	0.0024	0.0052	0.0025	0.0052	0.0037	0.0032	0.0029	0.0033	0.0029
Zinc	mg/L	0.0088	0.020	0.014	0.013	0.0042	0.0054	0.0038	0.024	0.023
Additional Parameters										
Bicarbonate Alkalinity	mg/L	78	160	270	200	320	380	390	290	320
Carbonate Alkalinity	mg/L	120	110	34	97	39	< 0.31 UJ	< 0.16 U	71	< 0.31 U
Magnesium	mg/L	6.9	7.5	9.3	6.1	13	11	12	9.9	11
Potassium	mg/L	52	45	30	46	33	36	34	46	39
Sodium	mg/L	61	65	57	62	56	61	60	56	46
Total Alkalinity	mg/L	200	260	310	300	350	380	390	360	320

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-37	MW-37	MW-37	MW-37	MW-37	MW-37	MW-37	MW-37	MW-37
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/17/2024	10/15/2024	2/3/2025	4/20/2025	8/12/2025	10/21/2025	2/18/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**									
Field Parameters										
Conductivity	mS/cm	1.16	1.24	1	1.09	1	1.05	0.957	1.14	0.77
Dissolved Oxygen	mg/L	1.04	0.04	0.01	0.89	0.14	0.18	0.18	0.26	5.35
Oxidation Reduction Potential	mV	-19	65	6.7	74.1	-72.7	-8.9	-90.6	-126.1	131.2
pH	su	7.47	7.15	7.21	7.16	7.42	7.28	7.24	7.56	7.47
Temperature	deg c	9	17.8	18.1	7.9	9.3	19.5	17.5	7.3	9.5
Turbidity	NTU	0.02	0.02	7.46	0.02	0.5	1.21	0.87	0.02	0.02
Appendix III										
Boron	mg/L	5.2	3.9	1.9	5.9	4.8	4.0	2.8	3.7	0.90
Calcium	mg/L	160	160	120	160	140	140	140	200	110
Chloride	mg/L	22	29	40	15	15	15	18	9.7	3.0
Fluoride	mg/L	0.63	0.39	0.50	0.40	0.50	0.60	0.58	0.52	0.49
Sulfate (as SO4)	mg/L	210	260	110	270	260	230	110	320	130
Total Dissolved Solids	mg/L	790	840	630	780	700	720	620	800	530
Appendix IV										
Antimony	mg/L	0.00064	0.00040	0.00023 J	0.00011 J	0.00017 J	0.00017 J	0.00016 J+	< 0.00010 U	0.0012
Arsenic	mg/L	0.00055	0.00046 J	0.00046 J	0.00074	0.00061	0.00073	0.0011	0.00064	0.00066
Barium	mg/L	0.040	0.046	0.044	0.074	0.067	0.070	0.082	0.098	0.035
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000076 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	0.00012 J	0.00013 J	0.00011 J	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.000090 J
Chromium, Total	mg/L	0.00039	0.00054	0.00027	0.00028	0.00036	0.00026	0.0015 J+	0.00022 J	0.00087
Cobalt	mg/L	0.00075	0.00053	0.00051 J	0.00076	0.00038 J	0.00044 J	0.00056	0.00029 J	0.00025 J
Fluoride	mg/L	0.63	0.39	0.50	0.40	0.50	0.60	0.58	0.52	0.49
Lead	mg/L	0.00017 J	0.00013 J	< 0.00010 U	< 0.00010 U	0.00058	0.00052 J	0.010 J+	0.00011 J	0.00017 J
Lithium	mg/L	0.020	0.022	0.019	0.0093	0.0097	0.016	0.014	0.011	0.037
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000016	0.0000018	0.0000065 J+	0.0000011	0.0000028
Molybdenum	mg/L	0.015	0.0075	0.0064	0.012	0.013	0.0094	0.0064	0.0095	0.018
Radium 226 and 228	pCi/L	< 0.569 U	< 0.764 U	< 0.96 UJ	0.95	1.09	< 0.572 U	< 0.774 UJ	1.02	0.922
Radium-226	pCi/L	< 0.142 U	0.104	< 0.226 UJ	0.67	< 0.319 U	< 0.289 U	< 0.331 U	< 0.122 U	< 0.247 U
Radium-228	pCi/L	< 0.569 U	< 0.764 U	< 0.96 UJ	< 0.43 U	1.09	< 0.572 U	< 0.774 UJ	0.981	< 0.801 U
Selenium	mg/L	0.0046	0.0030	0.0018	0.00065	0.00091	0.0011	0.00069	0.00047 J	0.0095
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	3.9 J	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.1 UJ	4.0	< 4.0 U
Michigan CCR Part 115										
Copper	mg/L	0.013	0.014	0.014	0.0067	0.0088	0.012	0.041 J+	0.0052	0.0060
Iron	mg/L	0.16	< 0.026 U	0.026 J	2.1	1.7	0.90	2.3	3.4	0.029 J
Nickel	mg/L	0.0046	0.0052	0.0039	0.0029	0.0029	0.0037	0.0035 J+	0.0017	0.0017
Silver	mg/L	< 0.000050 U	< 0.000050 U	0.00017 J+	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	< 0.00062 U	0.00067 J	< 0.00062 U	0.00039 J	0.00073 J+	0.00030 J	< 0.00028 U
Zinc	mg/L	0.017	0.017	0.011	0.015	0.0097	0.011	0.018 J+	0.020	0.028
Additional Parameters										
Bicarbonate Alkalinity	mg/L	310	340	350	340	290	330	360	320	270
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	13	12	9.8	12	9.9	11	9.6	14	10
Potassium	mg/L	18	20	18	13	19	20	19	21	31
Sodium	mg/L	100	98	57	68	58	49	46	35	20
Total Alkalinity	mg/L	310	340	350	340	290	330	360	320	270

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-38	MW-38	MW-38	MW-38	MW-38	MW-38	MW-38	MW-38	MW-38
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		4/8/2024	7/17/2024	10/16/2024	2/26/2025	4/20/2025	8/12/2025	10/21/2025	2/18/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**									
Field Parameters										
Conductivity	mS/cm	1.27	1.18	1.3	0.91	0.587	0.64	0.891	0.579	8.88
Dissolved Oxygen	mg/L	0.4	0.17	0.13	0.33	1.51	0.27	0.24	1.04	0.61
Oxidation Reduction Potential	mV	-207.4	-25.1	-69.8	-5.7	-102.8	12	-200.1	-51.7	59.4
pH	su	10	9.23	9	9.12	9.17	8.33	9.59	9.02	13.04
Temperature	deg c	11.7	20.6	16.9	6	8.1	23.2	16.7	7.5	10
Turbidity	NTU	7.83	0.02	0.02	8.46	3.32	2.01	11.4	11.9	0.02
Appendix III										
Boron	mg/L	1.6	2.4	3.0	1.2	0.47	2.1	1.9	0.54	0.022
Calcium	mg/L	150	96	110	74	72	91	560	87	630
Chloride	mg/L	51	57	58	42	11	34	31	14	10
Fluoride	mg/L	0.79	1.0	1.8	0.83	0.63	1.2	0.88	0.59	0.68
Sulfate (as SO4)	mg/L	280	170	210	130	210	120	110	160	15
Total Dissolved Solids	mg/L	840	850	980	350	460	580	620	390	1800
Appendix IV										
Antimony	mg/L	0.00068	0.0017	0.0011	0.0018	0.0013	0.00031	< 0.00010 U	0.00066	< 0.00050 U
Arsenic	mg/L	0.0050	0.0071	0.0033	0.0057	0.0050	0.0025	0.0023	0.0032	0.00057 J
Barium	mg/L	0.16	0.12	0.17	0.070	0.036	0.11	0.073	0.048	0.57
Beryllium	mg/L	< 0.000052 U	0.000067 J	0.000090 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000055 J	< 0.000052 U	< 0.00050 U
Cadmium	mg/L	0.000096 J	0.00037	0.00015 J	0.00049	< 0.000075 U	< 0.000075 U	< 0.000075 U	0.00016 J	< 0.00038 U
Chromium, Total	mg/L	0.0040	0.016	0.0072	0.013	0.0039	0.0044	0.012	0.0028	< 0.0010 U
Cobalt	mg/L	0.00053	0.00071	0.00055	0.00079	0.00025 J	0.00029 J	0.00049 J	0.00028 J	0.0031
Fluoride	mg/L	0.79	1.0	1.8	0.83	0.63	1.2	0.88	0.59	0.68
Lead	mg/L	0.015	0.086	0.023	0.060	0.0076	0.0053	< 0.00050 U	0.0099	0.0021 J
Lithium	mg/L	0.12	0.098	0.12	0.094	0.047	0.12	0.14	0.055	0.20
Mercury	mg/L	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.0000093	0.000021	0.000032	0.000027	0.000013
Molybdenum	mg/L	0.0097	0.014	0.0095	0.023	0.025	0.0064	0.0010 J	0.013	0.0059 J
Radium 226 and 228	pCi/L	1.21	< 1.72 U	2.12	--	< 2.65 U	< 1.03 U	< 1.5 U	< 1.96 U	2
Radium-226	pCi/L	0.492	< 0.314 U	0.278	--	< 0.988 U	< 0.469 U	< 0.456 U	< 0.511 U	0.823
Radium-228	pCi/L	< 1.08 U	< 1.72 U	1.84	--	< 2.65 U	< 1.03 U	< 1.5 U	< 1.96 U	1.17
Selenium	mg/L	0.00073	0.00095	0.00059	0.0010	0.0015	0.00046 J	0.00012 J	0.00069	0.0020 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.00038 U
Total Suspended Solids	mg/L	160	53	< 4.0 U	45	7.0	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U
Michigan CCR Part 115										
Copper	mg/L	0.0031	0.020	0.0063	0.018	0.0037	0.00098	< 0.00020 U	0.0045	0.031
Iron	mg/L	0.39	1.0	0.51	1.4	0.13	0.26	3.3	0.20	0.032 J
Nickel	mg/L	0.0053	0.0096	0.0067	0.0083	0.0038	0.0038	0.00071 J	0.0033	0.027
Silver	mg/L	< 0.000050 U	0.00019	0.000065	0.00015	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00025 U
Vanadium	mg/L	0.0066	0.010	0.0053	0.015	0.014	0.0081	< 0.00028 U	0.0049	< 0.0014 U
Zinc	mg/L	0.0066	0.020	0.015	0.021	0.0039	0.0038	< 0.00048 U	0.015	0.045
Additional Parameters										
Bicarbonate Alkalinity	mg/L	270	300	380	230	55	260	150	80	2000
Carbonate Alkalinity	mg/L	12	50	60	75	43	< 0.31 U	90	29	< 0.31 U
Magnesium	mg/L	18	13	18	7.4	1.3	10	120	2.5	0.028 J
Potassium	mg/L	91	86	88	82	44	75	15	41	260
Sodium	mg/L	97	100	100	96	36	74	290	40	100
Total Alkalinity	mg/L	280	350	440	300	98	260	240	110	2000

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J– Same as J, and the reported concentration is potentially biased low.

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R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-39	MW-39	MW-39	MW-39
Compliance Phase:		Assessment	Assessment	Assessment	Assessment
Sample Date:		8/13/2025	10/21/2025	2/19/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B	Unit 3A/B	Unit 3A/B	Unit 3A/B
Sample Matrix:		Groundwater	Groundwater	Groundwater	Groundwater
Constituent	**Unit**				
Field Parameters					
Conductivity	mS/cm	1.21	1.293	1.76	1.28
Dissolved Oxygen	mg/L	0.14	0.15	0.69	0.33
Oxidation Reduction Potential	mV	74.5	-142.6	-86.8	-123.9
pH	su	7.3	7.2	7.21	7.14
Temperature	deg c	20.4	18	6.1	10.6
Turbidity	NTU	8.5	9.02	4.84	4.42
Appendix III					
Boron	mg/L	1.4	1.3	0.91	0.71
Calcium	mg/L	200	200	290	230
Chloride	mg/L	13	12	18	5.7
Fluoride	mg/L	0.49	0.36	0.22	0.21
Sulfate (as SO4)	mg/L	48	37	470	410
Total Dissolved Solids	mg/L	710	760	1200	930
Appendix IV					
Antimony	mg/L	0.00013 J	0.00012 J	0.00086	0.00019 J
Arsenic	mg/L	0.0012	0.00082	0.0020	0.0019
Barium	mg/L	0.11	0.14	0.066	0.064
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	0.00013 J	< 0.000075 U	0.00079	0.00098
Chromium, Total	mg/L	0.0069	0.0062	0.0016	0.0017
Cobalt	mg/L	0.00037 J	0.00037 J	0.0024	0.0014
Fluoride	mg/L	0.49	0.36	0.22	0.21
Lead	mg/L	0.00015 J	0.00013 J	0.0015	0.0037
Lithium	mg/L	0.023	0.020	0.028	0.029
Mercury	mg/L	0.0000017	0.0000012	0.0000028	0.0000089
Molybdenum	mg/L	0.00026 J	0.00033 J	0.0026	0.0031
Radium 226 and 228	pCi/L	1.2	< 1.12 U	< 0.726 U	< 0.597 U
Radium-226	pCi/L	< 0.452 U	< 0.353 U	< 0.181 U	< 0.119 U
Radium-228	pCi/L	1.03	< 1.12 U	< 0.726 U	< 0.597 U
Selenium	mg/L	0.00030 J	0.00027 J	0.0012	0.0017
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	14	< 4.0 U	28	27
Michigan CCR Part 115					
Copper	mg/L	0.00047	0.00028	0.0017	0.0040
Iron	mg/L	6.0	3.2	4.5	8.2
Nickel	mg/L	0.0021	0.0018	0.021	0.015
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.00097 J	0.00095 J	0.00080 J	< 0.00028 U
Zinc	mg/L	0.0091	0.0015	0.078	0.073
Additional Parameters					
Bicarbonate Alkalinity	mg/L	580	670	460	340
Carbonate Alkalinity	mg/L	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	33	36	49	23
Potassium	mg/L	9.7	9.2	7.2	14
Sodium	mg/L	25	25	28	21
Total Alkalinity	mg/L	580	670	460	340

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J– Same as J, and the reported concentration is potentially biased low.

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Sample Location:		MW-41	MW-41	MW-41
Compliance Phase:		Development Sa	Assessment	Assessment
Sample Date:		12/23/2025	2/17/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample
Unit:		Unit 3A/B & 1/2	Unit 3A/B & 1/2	Unit 3A/B & 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater
Constituent	**Unit**			
Field Parameters				
Conductivity	mS/cm	2.739	3.46	2.68
Dissolved Oxygen	mg/L	7.01	2.56	1.63
Oxidation Reduction Potential	mV	38.8	85.7	-60.1
pH	su	7.63	7.75	7.31
Temperature	deg c	9.8	7.5	9.4
Turbidity	NTU	66.8	42.7	2.61
Appendix III				
Boron	mg/L	27	28	7.7
Calcium	mg/L	210	220	300
Chloride	mg/L	490	420	170
Fluoride	mg/L	1.4	1.1	1.1
Sulfate (as SO4)	mg/L	230	610	720
Total Dissolved Solids	mg/L	2200	2300	2000
Appendix IV				
Antimony	mg/L	0.00092	0.00029	0.0016
Arsenic	mg/L	0.0042	0.0022	0.0022
Barium	mg/L	0.22	0.21	0.099
Beryllium	mg/L	0.00018 J	0.000093 J	< 0.00010 U
Cadmium	mg/L	0.00015 J	0.000080 J	0.000075 J
Chromium, Total	mg/L	0.0081	0.0036	0.013
Cobalt	mg/L	0.0017	0.0012	0.00063
Fluoride	mg/L	1.4	1.1	1.1
Lead	mg/L	0.0068	0.0040	0.00019 J
Lithium	mg/L	0.45	0.57	0.23
Mercury	mg/L	0.000014	0.000016	0.0000033
Molybdenum	mg/L	0.018	0.0081	0.022
Radium 226 and 228	pCi/L	1.14	< 0.838 U	< 0.762 U
Radium-226	pCi/L	0.552	0.271	0.171
Radium-228	pCi/L	< 0.8 U	< 0.838 U	< 0.762 U
Selenium	mg/L	0.0021	0.00050	0.021
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	140	65	4.0
Michigan CCR Part 115				
Copper	mg/L	--	0.0025	0.0061
Iron	mg/L	5.2	5.1	0.87
Nickel	mg/L	0.0058	0.0032	0.0039
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.0086	0.0031	0.0057
Zinc	mg/L	0.031	0.024	0.018
Additional Parameters				
Bicarbonate Alkalinity	mg/L	--	790	580
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U
Magnesium	mg/L	--	120	150
Potassium	mg/L	--	33	18
Sodium	mg/L	--	420	130
Total Alkalinity	mg/L	--	790	580

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-42	MW-42	MW-42
Compliance Phase:		Development Sa	Assessment	Assessment
Sample Date:		12/23/2025	2/18/2026	4/21/2026
Sample Type:		Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater
Constituent	**Unit**			
Field Parameters				
Conductivity	mS/cm	1.931	2.81	1.49
Dissolved Oxygen	mg/L	0.23	0.17	0.27
Oxidation Reduction Potential	mV	-67.5	-43.2	-140.7
pH	su	6.95	6.76	6.86
Temperature	deg c	7.2	5.1	9.7
Turbidity	NTU	18.5	6.94	4.32
Appendix III				
Boron	mg/L	1.6	1.2	1.2
Calcium	mg/L	340	350	200
Chloride	mg/L	230	130	43
Fluoride	mg/L	0.32	0.27	0.36
Sulfate (as SO4)	mg/L	720	960	410
Total Dissolved Solids	mg/L	1900	2000	1000
Appendix IV				
Antimony	mg/L	0.00028	0.00072	0.00016 J
Arsenic	mg/L	0.0013	0.00085	0.0011
Barium	mg/L	0.11	0.070	0.065
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	< 0.00010 U
Cadmium	mg/L	0.0010	0.0037	0.00045
Chromium, Total	mg/L	0.00081	0.00048	0.00027
Cobalt	mg/L	0.0091	0.016	0.0035
Fluoride	mg/L	0.32	0.27	0.36
Lead	mg/L	0.011	0.011	0.0026
Lithium	mg/L	0.13	0.13	0.10
Mercury	mg/L	0.0000058	0.000012	0.0000030
Molybdenum	mg/L	0.0019	0.0022	0.0026
Radium 226 and 228	pCi/L	1.04	0.938	1.86
Radium-226	pCi/L	< 0.298 U	< 0.121 U	0.875
Radium-228	pCi/L	0.748	0.905	0.99
Selenium	mg/L	0.0022	0.0029	0.00022 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	51	16	21
Michigan CCR Part 115				
Copper	mg/L	--	0.032	0.0057
Iron	mg/L	19	6.5	9.0
Nickel	mg/L	0.43	1.8	0.41
Silver	mg/L	0.000053	0.000059	< 0.000050 U
Vanadium	mg/L	0.00051 J	0.00032 J	< 0.00028 U
Zinc	mg/L	0.56	3.5	0.54
Additional Parameters				
Bicarbonate Alkalinity	mg/L	--	450	400
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U
Magnesium	mg/L	--	130	62
Potassium	mg/L	--	18	8.4
Sodium	mg/L	--	89	40
Total Alkalinity	mg/L	--	450	400

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

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J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		MW-43	MW-43	MW-43
Compliance Phase:		Development Sa	Assessment	Assessment
Sample Date:		12/22/2025	2/19/2026	4/22/2026
Sample Type:		Field Sample	Field Sample	Field Sample
Unit:		Unit 1/2	Unit 1/2	Unit 1/2
Sample Matrix:		Groundwater	Groundwater	Groundwater
Constituent	**Unit**			
Field Parameters				
Conductivity	mS/cm	0.76	0.93	0.616
Dissolved Oxygen	mg/L	0.1	0.22	0.17
Oxidation Reduction Potential	mV	21.4	-132.9	-65.7
pH	su	7.69	7.53	7.42
Temperature	deg c	8	5.2	11
Turbidity	NTU	0.02	0.02	0.02
Appendix III				
Boron	mg/L	62	33	13
Calcium	mg/L	99	95	76
Chloride	mg/L	7.0	7.3	1.5
Fluoride	mg/L	9.8	7.6	5.9
Sulfate (as SO4)	mg/L	180	120	22
Total Dissolved Solids	mg/L	890	570	410
Appendix IV				
Antimony	mg/L	0.026	0.012	0.0041
Arsenic	mg/L	0.011	0.0054	0.0076
Barium	mg/L	0.86	0.62	0.72
Beryllium	mg/L	0.00011 J	0.000084 J	< 0.00010 U
Cadmium	mg/L	0.011	0.0096	0.0093
Chromium, Total	mg/L	0.00055	0.00029	0.00032
Cobalt	mg/L	0.27	0.16	0.11
Fluoride	mg/L	9.8	7.6	5.9
Lead	mg/L	0.00066	0.00020 J	< 0.00010 U
Lithium	mg/L	0.59	0.35	0.18
Mercury	mg/L	0.0000016	0.00000094	< 0.00000016 U
Molybdenum	mg/L	0.0091	0.0062	0.0052
Radium 226 and 228	pCi/L	< 0.381 U	0.929	< 0.562 U
Radium-226	pCi/L	0.169	< 0.176 U	< 0.0994 U
Radium-228	pCi/L	< 0.381 U	0.833	< 0.562 U
Selenium	mg/L	0.037	0.023	0.0048
Thallium	mg/L	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	< 4.1 U	< 4.0 U
Michigan CCR Part 115				
Copper	mg/L	--	0.0027	0.0027
Iron	mg/L	0.13	0.21	0.17
Nickel	mg/L	0.36	0.22	0.19
Silver	mg/L	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	0.0012	0.0011 J	0.00076 J
Zinc	mg/L	0.18	0.15	0.14
Additional Parameters				
Bicarbonate Alkalinity	mg/L	--	320	300
Carbonate Alkalinity	mg/L	--	< 0.16 U	< 0.31 U
Magnesium	mg/L	--	15	11
Potassium	mg/L	--	18	15
Sodium	mg/L	--	73	37
Total Alkalinity	mg/L	--	320	300

Notes:

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mg/l = milligrams per liter.

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J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02	SG-02
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/10/2024	7/17/2024	10/17/2024	2/27/2025	4/22/2025	8/14/2025	10/23/2025	2/19/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	No Sample Take	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	No Sample Take	Field Sample	No Sample Take	No Sample Take	No Sample Take	Field Sample
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water		Surface Water				Surface Water
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1.42	1	--	0.898	0.93	1.03	1.56	1.66	1.47	0.84	0.99	1.57	1.45	--	0.69	--	--	--	1.21
Dissolved Oxygen	mg/L	5.28	9.57	--	4.27	10.32	7.83	8.9	9.54	8.29	14.38	9.31	7.69	8.44	--	9.53	--	--	--	8.22
Oxidation Reduction Potential	mV	147.3	-25.2	--	131.1	13.3	16.1	25.6	69.3	-44.9	135.6	-32.5	-39.7	78.5	--	33.2	--	--	--	47.6
pH	su	8.02	8.38	--	8	8.23	9.14	8.52	8.7	8.15	8.01	8.38	7.86	7.67	--	8.38	--	--	--	7.74
Temperature	deg c	2.8	3.5	--	2.7	8.9	26.6	26.2	29.6	17.5	3.6	14.8	28.2	12.4	--	14.8	--	--	--	20.1
Turbidity	NTU	1.62	0.02	--	1.2	2.41	6.62	4.2	3.26	6.09	0.46	3.59	1.34	7.03	--	9.08	--	--	--	3.96
Appendix III																				
Boron	mg/L	4.0	2.2	--	2.1	2.0	2.8	5.6 J+	6.9	7	3.5	3.1	8.1	7.3	--	2.6	--	--	--	2.2
Calcium	mg/L	210	140	--	140	130	150	210	170	180	140	140	170	160	--	100	--	--	--	200
Chloride	mg/L	75	46	--	41	37	40	86	120	99	52	36	120	110	--	54	--	--	--	39
Fluoride	mg/L	2.6	1.9	--	2.3	2.6	3.3	4.6	5.1	3.6	2.2	2.1	4.5	3.7	--	2.5	--	--	--	1.5
Sulfate (as SO4)	mg/L	620	360	--	350	400	430	620	640	530	380	340	540	490	--	270	--	--	--	480
Total Dissolved Solids	mg/L	1100	660	--	580	680	740	1200	1400	1100	690	690	1100	1100	--	560	--	--	--	880
Appendix IV																				
Antimony	mg/L	0.00051	0.00043	--	0.00066	0.00058 J	0.0012	0.00085	0.0011	0.00061	0.00038	0.00088	0.0011	0.00076	--	0.00079	--	--	--	0.00050
Arsenic	mg/L	0.0019	0.0012	--	0.0018	0.0017 J	0.0032	0.0037	0.0091	0.0023	0.0012	0.0017	0.0086	0.0020	--	0.0014	--	--	--	0.0012
Barium	mg/L	0.049	0.033	--	0.034	0.22	0.080	0.13	0.11	0.06	0.037	0.045	0.12	0.060	--	0.049	--	--	--	0.051
Beryllium	mg/L	0.000060 J	< 0.000052 U	--	< 0.000052 U	< 0.00027 U	< 0.000052 U	0.00029	0.00014 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000057 J	< 0.000052 U	--	0.000078 J	--	--	--	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00017 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U
Chromium, Total	mg/L	0.00038	0.00024 J	--	0.00057	< 0.00091 U	0.00046	0.00091	0.00080	0.00036	0.00025	0.00045	0.00064	0.00034	--	0.00036	--	--	--	0.00029
Cobalt	mg/L	0.00021 J	0.00022 J	--	0.00028 J	< 0.00052 U	0.00035 J	0.00040 J	0.00057	0.00015 J	0.00012 J	0.00017 J	0.00034 J	< 0.00010 U	--	0.00012 J	--	--	--	< 0.00010 U
Fluoride	mg/L	2.6	1.9	--	2.3	2.6	3.3	4.6	5.1	3.6	2.2	2.1	4.5	3.7	--	2.5	--	--	--	1.5
Lead	mg/L	0.0013	0.00081	--	0.0012	0.0020 J	0.0011	0.00050 J	0.0012	0.00064	0.00061	0.0011	0.00083	0.00043 J	--	0.00063	--	--	--	0.00054 J
Lithium	mg/L	0.046	0.032	--	0.035	0.038	0.053	0.067	0.085	0.058	0.042	0.043	0.086	0.072	--	0.046	--	--	--	0.048
Mercury	mg/L	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00022	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	0.0000064	--	--	--	0.0000037
Molybdenum	mg/L	0.0069	0.0060	--	0.011	0.0062 J	0.016	0.0072	0.012	0.0081	0.0069	0.013	0.011	0.0097	--	0.014	--	--	--	0.019
Radium 226 and 228	pCi/L	< 0.342 U	0.712 J+	--	< 0.551 U	1.42	1.49	1.44	1.28	< 0.532 U	< 1 U	0.722	< 0.916 U	< 0.7 U	--	0.658	--	--	--	0.956
Radium-226	pCi/L	0.151	< 0.121 U	--	< 0.177 U	0.266	0.229	0.456	0.329	< 0.265 U	< 0.18 U	0.206	0.466	0.175	--	0.382	--	--	--	< 0.316 U
Radium-228	pCi/L	< 0.342 U	0.627 J+	--	< 0.551 U	1.15	1.26	0.981	0.954	< 0.532 U	< 1 U	< 0.601 U	< 0.916 U	< 0.7 U	--	< 0.565 U	--	--	--	< 0.919 U
Selenium	mg/L	0.00073	0.00059	--	0.0010	< 0.0011 U	0.0013	0.0013	0.0014	0.0008	0.0018	0.0014	0.0015	0.00078	--	0.0014	--	--	--	0.0013
Thallium	mg/L	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00039 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U
Total Suspended Solids	mg/L	< 4.0 U	3.0 J	--	1.0 J	0.99 J	1.0 J	30	14	< 3.9 U	< 4.0 U	< 4.0 U	17	< 4.0 U	--	11	--	--	--	9.0
Michigan CCR Part 115																				
Copper	mg/L	0.0010	0.00085	--	0.011	0.0011 J	0.0014	0.0012	0.0010	0.00047	0.00089	0.0016	0.00083	0.00061	--	0.0015	--	--	--	0.0016
Iron	mg/L	0.20	0.15	--	0.20	0.23	0.16	0.27	0.48	0.28	0.14	0.16	0.48	0.21	--	0.10	--	--	--	0.13
Nickel	mg/L	0.0023	0.0020	--	0.0023	< 0.0034 U	0.0027	0.0036	0.0040	0.0034	0.0020	0.0024	0.0037	0.0035	--	0.0021	--	--	--	0.0024
Silver	mg/L	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.00026 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	--	--	--	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0032 U	0.0019	0.0014	0.0052	0.00072 J	< 0.00062 U	0.0014	0.0055	0.0020	--	0.0012	--	--	--	0.00088 J
Zinc	mg/L	0.0041	0.0031	--	0.0029	0.029	0.0014	0.0024	0.0028	0.005	0.0013	0.0020	0.0024	0.0033	--	0.0016	--	--	--	0.014
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	96	76	--	62	71	35	73	65	130	93	79	94	110	--	85	--	--	--	140
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	19	< 0.31 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	--	< 0.16 U	--	--	--	< 0.31 U
Magnesium	mg/L	48	31	--	28	28	33	53	63	57	37	34	61	56	--	28	--	--	--	31
Potassium	mg/L	13	9.1	--	8.0	7.3	6.8	18	21	16	9.1	8.2	20	13	--	6.7	--	--	--	7.0
Sodium	mg/L	40	24	--	22	21	27	52	62	58	31	28	66	60	--	27	--	--	--	23
Total Alkalinity	mg/L	96	76	--	62	71	35	73	83	130	93	79	94	110	--	85	--	--	--	140

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R	SG-04R
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/8/2024	7/17/2024	10/17/2024	2/27/2025	4/22/2025	8/14/2025	10/23/2025	2/19/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	No Sample Take	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	No Sample Take	Field Sample	No Sample Take	No Sample Take	No Sample Take	Field Sample
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water		Surface Water				Surface Water
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	1	1.64	--	1.404	1.96	1.79	2.56	2.56	2.12	1.41	1.64	2.39	2	--	1.074	--	--	--	1.13
Dissolved Oxygen	mg/L	6.42	9.64	--	10.26	10.46	7.17	6.62	8.21	8.36	11.92	9.24	6.23	9.56	--	7.13	--	--	--	7.52
Oxidation Reduction Potential	mV	125.3	-34.8	--	-34	91.5	29.9	368	58.7	-33.8	155.6	20.8	-6.5	55.1	--	44.8	--	--	--	20.1
pH	su	8.03	8.44	--	8.05	8.21	8.3	8.24	8.68	8.36	7.2	8.46	8.74	8.35	--	7.56	--	--	--	8.08
Temperature	deg c	3.3	4	--	5.9	8.2	25.6	25.9	23.8	17.1	2.7	14.7	27.5	13.1	--	15.4	--	--	--	20.5
Turbidity	NTU	7.25	1.1	--	3.22	1.04	5.27	10.6	2.28	5.92	8.1	3.75	4.11	8.89	--	7.77	--	--	--	5.47
Appendix III																				
Boron	mg/L	3.0	2.1	--	2.6	2.4	3.2	5.0 J+	5.4	5.4	4.5	4.4	6.8	5.6	--	3.5	--	--	--	2.2
Calcium	mg/L	430	300	--	370	310	390	600	580	500	340	370	510	390	--	410	--	--	--	190
Chloride	mg/L	27	22	--	21	20	22	33	38	35	23	20	38	42	--	71	--	--	--	31
Fluoride	mg/L	2.6	2.0	--	2.3	2.7	3.5	5.0	5.3	3.7	2.3	2.7	4.2	3.7	--	1.6	--	--	--	1.4
Sulfate (as SO4)	mg/L	1200	890	--	750	880	1000	1600	1800	820	890	890	1500	1200	--	750	--	--	--	400
Total Dissolved Solids	mg/L	1800	1200	--	1200	1400	1600	2500	2700	2200	1400	1400	2200	1900	--	1900	--	--	--	810
Appendix IV																				
Antimony	mg/L	0.00059	0.00052	--	0.00069	0.0011 J	0.00064 J	0.0013	0.0011	0.00089	< 0.00050 U	0.0010	0.00046	0.00052	--	< 0.00010 U	--	--	--	0.00025
Arsenic	mg/L	0.00099	0.00091	--	0.0016	0.0026 J	0.0012	0.0043	0.0058	0.0017	0.0019	0.0016	0.0028	0.0018	--	0.0014	--	--	--	0.0025
Barium	mg/L	0.022	0.019	--	0.023	0.040	0.039	0.040	0.029	0.029	0.027	0.025	0.024	0.026	--	0.12	--	--	--	0.049
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	< 0.00026 U	< 0.000052 U	0.00012 J	0.000066 J	< 0.000052 U	0.000057 J	< 0.000052 U	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	--	--	--	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00016 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U
Chromium, Total	mg/L	0.00019 J	0.00028	--	0.00035	< 0.00088 U	0.00040	0.0010	0.00028	0.00063	0.00060	0.00028	0.00026	< 0.00020 U	--	0.0044	--	--	--	< 0.00020 U
Cobalt	mg/L	0.00024 J	0.00028 J	--	0.00037 J	< 0.00050 U	0.00032 J	0.0011	0.00083	0.00063	0.00029 J	0.00012 J	0.00020 J	< 0.00010 U	--	0.00024 J	--	--	--	0.00021 J
Fluoride	mg/L	2.6	2.0	--	2.3	2.7	3.5	5.0	5.3	3.7	2.3	2.7	4.2	3.7	--	1.6	--	--	--	1.4
Lead	mg/L	0.00033 J	0.00027 J	--	0.00047 J	0.0011 J	0.0013 J	0.0025 J	0.00054 J	0.00022 J	0.0015 J	0.00071	< 0.00050 U	< 0.00010 U	--	< 0.00010 U	--	--	--	< 0.00010 U
Lithium	mg/L	0.044	0.039	--	0.0089	0.043	0.056	0.072	0.084	0.064	0.049	0.059	0.091	0.076	--	0.056	--	--	--	0.035
Mercury	mg/L	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	< 0.00000016 U	--	--	--	0.0000026
Molybdenum	mg/L	0.0078	0.0066	--	0.0073	0.010	0.0072	0.013	0.016	0.016	0.0091	0.015	0.013	0.014	--	0.00096 J	--	--	--	0.0093
Radium 226 and 228	pCi/L	< 0.408 U	< 0.497 U	--	< 0.672 U	< 0.809 U	< 0.803 U	1.82	< 0.788 U	< 0.641 U	0.651	< 0.564 U	< 0.892 U	< 0.591 U	--	< 0.535 U	--	--	--	< 0.935 U
Radium-226	pCi/L	< 0.11 U	< 0.109 U	--	< 0.167 U	< 0.213 U	0.264	0.233	< 0.133 U	< 0.2 U	0.186	< 0.213 U	0.25	< 0.14 U	--	< 0.326 U	--	--	--	< 0.303 U
Radium-228	pCi/L	< 0.408 U	< 0.497 U	--	< 0.672 U	< 0.809 U	< 0.803 U	1.59	< 0.788 U	< 0.641 U	< 0.639 U	< 0.564 U	< 0.892 U	< 0.591 U	--	< 0.535 U	--	--	--	< 0.935 U
Selenium	mg/L	0.0015	0.0014	--	0.0016	0.0013 J	0.0012	0.0023	0.0028	0.0024	0.0023	0.0024	0.0022	0.0034	--	0.00020 J	--	--	--	0.0013
Thallium	mg/L	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.00038 U	< 0.000075 U	< 0.00038 U	0.000075 J	< 0.00038 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U
Total Suspended Solids	mg/L	5.0	< 4.0 U	--	3.0 J	1.0 J	5.0	23	9.0	< 4 U	14	< 4.0 U	15	7.0	--	21	--	--	--	8.0
Michigan CCR Part 115																				
Copper	mg/L	0.00047	0.00048	--	0.012	0.0012	0.00056	0.0018	0.00071	0.00086	0.0013	0.0011	0.00082	0.00063	--	< 0.00020 U	--	--	--	0.00063
Iron	mg/L	0.055	0.11	--	0.11	0.13	0.19	0.31	0.089	0.05	0.36	0.10	0.045 J	0.022 J	--	7.0	--	--	--	0.087
Nickel	mg/L	0.0025	0.0028	--	0.0027	< 0.0032 U	0.0022	0.0055	0.0041	0.0035	0.0037	0.0038	0.0030	0.0024	--	0.013	--	--	--	0.0022
Silver	mg/L	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	< 0.00025 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	--	--	--	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0031 U	0.00094 J	0.0041	0.0065	< 0.00062 U	0.00097 J	0.0013	0.0038	0.0013	--	0.00094 J	--	--	--	0.00056 J
Zinc	mg/L	0.0037	0.0023	--	0.0033	0.0061 J	0.0012	0.0070	0.0019	0.0086	0.0062	0.0020	0.0023	0.0026	--	< 0.0012 U	--	--	--	0.010
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	110	87	--	98	100	62	50	30	61	100	93	42	46	--	670	--	--	--	180
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	13	< 0.31 U	< 0.16 U	< 0.16 U	0.80 J	< 0.16 U	--	< 0.16 U	--	--	--	< 0.31 U
Magnesium	mg/L	41	30	--	33	29	35	53	62	57	44	43	61	55	--	140	--	--	--	26
Potassium	mg/L	15	10	--	9.8	9.1	10	17	21	12	9.1	8.9	8.4	8.4	--	20	--	--	--	6.8
Sodium	mg/L	24	20	--	21	19	22	39	40	34	26	26	39	34	--	74	--	--	--	27
Total Alkalinity	mg/L	110	87	--	98	100	62	50	43	61	100	93	43	46	--	670	--	--	--	180

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

U The analyte was analyzed for, but was not detected at, a level greater than or equal to the level of the adjusted reporting limit (RL) for the sample and method.

J The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or to the concentration of the analyte being below the RL).

J+ Same as J, and the reported concentration is potentially biased high.

J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05	SG-05
Compliance Phase:		Background	Background	Background	Background	Background	Background	Background	Background	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		12/2/2022	1/5/2023	2/6/2023	3/14/2023	4/19/2023	5/23/2023	6/28/2023	8/8/2023	10/24/2023	2/14/2024	4/8/2024	7/17/2024	10/17/2024	2/27/2025	4/22/2025	8/14/2025	10/23/2025	2/19/2026	4/23/2026
Sample Type:		Field Sample	Field Sample	No Sample Taker	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	No Sample Taker	Field Sample	No Sample Taker	No Sample Taker	No Sample Taker	Field Sample
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water		Surface Water				Surface Water
Constituent	**Unit**																			
Field Parameters																				
Conductivity	mS/cm	0.731	0.98	--	0.742	1.11	0.75	0.61	0.359	0.91	0.75	0.8	0.465	1.06	--	0.898	--	--	--	0.92
Dissolved Oxygen	mg/L	6.85	13.1	--	15.74	6.77	7.83	11.25	11.39	11.73	0.59	8.37	7.51	4.59	--	10.6	--	--	--	5.16
Oxidation Reduction Potential	mV	142	-44.6	--	6.4	18.3	16.3	153.3	39.2	-28.7	134.6	34.6	-29	57.7	--	31.7	--	--	--	24.9
pH	su	7.44	8.02	--	8.28	7.88	8.31	6.73	9.19	7.87	7.67	8.4	9.4	7.51	--	8.22	--	--	--	7.42
Temperature	deg c	4.1	4	--	9.8	7.6	27.8	23.4	28.9	19.5	5.2	17.3	26.7	13.8	--	16.5	--	--	--	19.4
Turbidity	NTU	9.38	8.02	--	9.83	26.6	6.8	7.84	4.36	29.3	41.6	14.9	2.68	48.3	--	6.11	--	--	--	49.9
Appendix III																				
Boron	mg/L	0.59	0.60	--	0.48	0.57	0.36	0.46 J+	0.39	0.72	0.45	0.53	0.34	0.68	--	1.2	--	--	--	0.50
Calcium	mg/L	140	120	--	120	120	81	34	34	120	130	99	22	140	--	160	--	--	--	130
Chloride	mg/L	79	51	--	61	50	54	64	29	54	54	37	52	46	--	46	--	--	--	25
Fluoride	mg/L	0.73	0.98	--	0.94	0.69	0.30	0.42	0.45	0.79	0.68	0.83	0.32	0.65	--	1.1	--	--	--	0.69
Sulfate (as SO4)	mg/L	8.4 J	150	--	38 J	110	43	38	11	12	7.2	83	13	6.0	--	240	--	--	--	25
Total Dissolved Solids	mg/L	620	630	--	460	570	400	320	210	510	520	440	240	630	--	750	--	--	--	540
Appendix IV																				
Antimony	mg/L	0.00018 J	0.000093 J	--	0.00030	0.0010 J	0.00029	0.0010	0.00044	0.00016 J	0.00011 J	0.00024 J	0.00030	0.00039	--	0.00027	--	--	--	0.00027
Arsenic	mg/L	0.00084	0.00056	--	0.00071	0.0026 J	0.0017	0.0024	0.0013	0.00088	0.0010	0.00094	0.0017	0.0016	--	0.0012	--	--	--	0.00076
Barium	mg/L	0.58	0.23	--	0.35	0.039	0.20	0.11	0.16	0.51	0.50	0.26	0.10	0.63	--	0.37	--	--	--	0.54
Beryllium	mg/L	< 0.000052 U	< 0.000052 U	--	< 0.000052 U	< 0.00026 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000062 J	--	< 0.000052 U	--	--	--	< 0.00010 U
Cadmium	mg/L	< 0.000032 U	< 0.000032 U	--	< 0.000032 U	< 0.00016 U	< 0.000075 U	0.00011 J	0.00075	0.000094 J	0.00041	0.00013 J	< 0.000075 U	0.00067	--	< 0.000075 U	--	--	--	< 0.000075 U
Chromium, Total	mg/L	0.00036	0.00024 J	--	0.00048	< 0.00088 U	0.00035	0.00049	0.0017	0.00039	0.0020	0.00056	0.00043	0.0038	--	0.00050	--	--	--	0.00025
Cobalt	mg/L	0.00037 J	0.00025 J	--	0.00029 J	< 0.00050 U	0.00025 J	0.00032 J	0.00033 J	0.00027 J	0.00046 J	0.00024 J	0.00013 J	0.00085	--	0.00029 J	--	--	--	0.00055
Fluoride	mg/L	0.73	0.98	--	0.94	0.69	0.30	0.42	0.45	0.79	0.68	0.83	0.32	0.65	--	1.1	--	--	--	0.69
Lead	mg/L	0.00023 J	0.00038 J	--	0.00045 J	0.0012 J	0.0022	0.0040	0.0095	0.0031	0.011	0.0031	0.0019	0.016	--	0.0011	--	--	--	0.00025 J
Lithium	mg/L	0.038	0.033	--	0.0045	0.029	0.016	0.022	0.027	0.039	0.016	0.023	0.014	0.042	--	0.044	--	--	--	0.032
Mercury	mg/L	< 0.00016 U	< 0.00016 U	--	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	0.00017 J	< 0.00016 U	< 0.00016 U	< 0.00016 U	< 0.00016 U	--	0.0000019	--	--	--	0.0000075
Molybdenum	mg/L	0.00077 J	0.0029	--	0.0013	0.0090	0.0083	0.0087	0.0015	0.00085 J	0.00058 J	0.0024	0.0039	0.00078 J	--	0.0054	--	--	--	0.0014
Radium 226 and 228	pCi/L	0.851	< 0.537 U	--	< 0.776 U	0.858	< 0.758 U	< 0.818 U	< 0.82 U	< 0.771 U	< 0.889 U	0.971	< 1.12 U	< 0.773 U	--	< 0.852 U	--	--	--	< 0.758 U
Radium-226	pCi/L	0.308	< 0.122 U	--	< 0.188 U	0.306	< 0.219 U	< 0.154 U	< 0.147 U	< 0.286 U	0.216	< 0.204 U	< 0.17 U	< 0.244 U	--	< 0.499 U	--	--	--	< 0.39 U
Radium-228	pCi/L	0.543	< 0.537 U	--	< 0.776 U	< 0.798 U	< 0.758 U	< 0.818 U	< 0.82 U	< 0.771 U	< 0.889 U	0.845	< 1.12 U	< 0.773 U	--	< 0.852 U	--	--	--	< 0.758 U
Selenium	mg/L	< 0.00022 U	< 0.00022 U	--	< 0.00022 U	0.0013 J	0.00022 J	0.00038 J	0.00027 J	0.00017 J	0.00054	0.00014 J	0.00027 J	0.00039 J	--	0.00022 J	--	--	--	0.00014 J
Thallium	mg/L	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	< 0.00038 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	--	< 0.000075 U	--	--	--	< 0.000075 U
Total Suspended Solids	mg/L	5.0	7.9	--	8.0	17	6.0	14	73	12	120	8.0	4.0	74	--	17	--	--	--	13
Michigan CCR Part 115																				
Copper	mg/L	0.00029	0.00036	--	0.0089	0.0011 J	0.00084	0.0028	0.0066	0.0012	0.0063	0.0021	0.0015	0.011	--	0.00071	--	--	--	0.00067
Iron	mg/L	3.0	1.5	--	2.7	3.2	1.1	0.74	1.1	2.9	7.2	1.9	1.0	7.2	--	1.6	--	--	--	4.6
Nickel	mg/L	0.0013	0.0015	--	0.0012	< 0.0032 U	0.0026	0.0034	0.0026	0.0012	0.0024	0.0017	0.0020	0.0047	--	0.0024	--	--	--	0.0020
Silver	mg/L	< 0.000050 U	< 0.000050 U	--	0.000053	< 0.00025 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.00005 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	--	< 0.000050 U	--	--	--	< 0.000050 U
Vanadium	mg/L	< 0.00062 U	< 0.00062 U	--	< 0.00062 U	< 0.0031 U	< 0.00062 U	0.0012	0.00069 J	< 0.00062 U	< 0.00062 U	0.00071 J	0.00090 J	0.0020	--	0.0011 J	--	--	--	< 0.00028 U
Zinc	mg/L	0.030	0.0018	--	0.0022	0.0060 J	0.0024	0.0090	0.019	0.043	0.019	0.0065	0.0033	0.055	--	0.0031	--	--	--	0.044
Additional Parameters																				
Bicarbonate Alkalinity	mg/L	490	270	--	290	290	240	65	96	400	400	240	63	490	--	320	--	--	--	450
Carbonate Alkalinity	mg/L	< 0.16 U	< 0.16 U	--	< 0.16 U	< 0.16 U	< 0.16 U	46	16	< 0.31 U	< 0.16 U	< 0.16 U	42	< 0.16 U	--	< 0.16 U	--	--	--	< 0.31 U
Magnesium	mg/L	27	23	--	26	26	25	21	12	24	26	23	19	29	--	33	--	--	--	23
Potassium	mg/L	8.1	6.5	--	7.9	6.8	4.3	0.31	0.79	8.5	7.9	5.1	0.32	7.8	--	8.6	--	--	--	7.2
Sodium	mg/L	43	30	--	38	34	37	44	21	40	43	30	30	45	--	45	--	--	--	32
Total Alkalinity	mg/L	490	270	--	290	290	240	110	110	400	400	240	100	490	--	320	--	--	--	450

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

Qualifiers:

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J– Same as J, and the reported concentration is potentially biased low.

UJ The analyte was not detected at a level greater than or equal to the adjusted method detection limit (MDL). However, the reported adjusted MDL is approximate and might be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Sample Location:		SG-07	SG-07	SG-07	SG-07	SG-07	SG-07
Compliance Phase:		Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sample Date:		2/27/2025	4/22/2025	8/13/2025	10/22/2025	2/19/2026	4/23/2026
Sample Type:		No Sample Taker	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Unit:		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample Matrix:			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Constituent	**Unit**						
Field Parameters							
Conductivity	mS/cm	--	0.4727	0.623	0.676	--	0.499
Dissolved Oxygen	mg/L	--	12.98	2.46	9.19	--	7.15
Oxidation Reduction Potential	mV	--	20.4	10.7	29	--	-13.8
pH	su	--	8.44	8.33	8.07	--	7.96
Temperature	deg c	--	13.1	20.1	11.4	--	19.9
Turbidity	NTU	--	5.03	9.02	9.44	--	9.3
Appendix III							
Boron	mg/L	--	0.076	0.088	0.11	0.37	0.055
Calcium	mg/L	--	68	48	70	100	54
Chloride	mg/L	--	51	79	77	59	28
Fluoride	mg/L	--	0.16	0.16 J	0.26	0.26	0.11 J
Sulfate (as SO4)	mg/L	--	44	45	54	100	25
Total Dissolved Solids	mg/L	--	360	390	390	450	260
Appendix IV							
Antimony	mg/L	--	0.00013 J	0.00020 J	0.00018 J	0.00019 J	0.00014 J
Arsenic	mg/L	--	0.00091	0.0023	0.00099	0.00086	0.0011
Barium	mg/L	--	0.057	0.055	0.061	0.091	0.050
Beryllium	mg/L	--	< 0.000052 U	< 0.000052 U	< 0.000052 U	0.000074 J	< 0.00010 U
Cadmium	mg/L	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Chromium, Total	mg/L	--	0.00051	0.00042	0.00063	0.00059	0.00066
Cobalt	mg/L	--	0.00020 J	0.00020 J	0.00030 J	0.00040 J	0.00020 J
Fluoride	mg/L	--	0.16	0.16 J	0.26	0.26	0.11 J
Lead	mg/L	--	0.00049 J	0.00040 J	0.00075	0.0012	0.00060
Lithium	mg/L	--	0.0035	0.0048	0.0040	0.0083	0.0023 J
Mercury	mg/L	--	0.0000019	0.00000093	< 0.00000016 U	0.0000044	0.0000032
Molybdenum	mg/L	--	0.0017	0.0039	0.0021	0.0043	0.0020
Radium 226 and 228	pCi/L	--	< 0.833 U	1.1	< 1.05 U	< 0.578 U	< 0.989 U
Radium-226	pCi/L	--	< 0.457 U	0.416	< 0.314 U	0.158	< 0.34 U
Radium-228	pCi/L	--	< 0.833 U	0.687	< 1.05 U	< 0.578 U	< 0.989 U
Selenium	mg/L	--	0.00027 J	0.00019 J	0.00018 J	0.00020 J	0.00035 J
Thallium	mg/L	--	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U	< 0.000075 U
Total Suspended Solids	mg/L	--	14	12	10	13	8.0
Michigan CCR Part 115							
Copper	mg/L	--	0.0016	0.0024	0.0018	0.0021	0.0023
Iron	mg/L	--	0.32	0.15	0.38	1.0	0.53
Nickel	mg/L	--	0.0012	0.0016	0.0017	0.0019	0.0016
Silver	mg/L	--	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U	< 0.000050 U
Vanadium	mg/L	--	0.00067 J	0.00086 J	0.00084 J	0.00080 J	0.0011 J
Zinc	mg/L	--	0.0034	0.0060	0.0035	0.018	0.013
Additional Parameters							
Bicarbonate Alkalinity	mg/L	--	210	170	200	220	160
Carbonate Alkalinity	mg/L	--	6.3	< 0.31 U	< 0.16 U	< 0.16 U	< 0.31 U
Magnesium	mg/L	--	20	21	23	22	14
Potassium	mg/L	--	3.3	3.8	4.1	3.9	3.9
Sodium	mg/L	--	27	43	45	39	16
Total Alkalinity	mg/L	--	210	170	200	220	160

Notes:

ug/l - micrograms per liter.

mg/l = milligrams per liter.

su - standard pH units (pH is a field parameter)

pCi/L = picocuries per liter.

All metals were analyzed as total unless otherwise indicated.

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R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte might or might not be present in the sample.

Appendix E

Laboratory Reports

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

TRACE ANALYTICAL LABORATORIES, INC.

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

May 12, 2026

Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 26D1138
Client Project City of Grand Haven - Harbor Island

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink
Senior Project Manager
Enclosures

PJLA Testing Accreditation# 1031

Wisconsin Accreditation No. FID: 998044080 / TNI EL V1:2016

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Trace Analytical Laboratories, Inc.
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Muskegon, MI 49444-2673

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

SAMPLE SUMMARY

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
26D1138-01	MW-03	Ground Water	AB/FDR	04/20/26 12:32	04/22/26 08:02
26D1138-02	MW-04	Ground Water	AB/FDR	04/20/26 14:04	04/22/26 08:02
26D1138-03	MW-04R	Ground Water	AB/FDR	04/20/26 15:08	04/22/26 08:02
26D1138-04	MW-12	Ground Water	AB/FDR	04/20/26 16:20	04/22/26 08:02
26D1138-05	MWT-12	Ground Water	AB/FDR	04/20/26 16:20	04/22/26 08:02
26D1138-06	LLHGTB-04202026	Ground Water	AB/FDR	04/20/26 17:15	04/22/26 08:02
26D1138-07	MW-38	Ground Water	AB/FDR	04/21/26 08:42	04/22/26 08:02
26D1138-08	MW-37	Ground Water	AB/FDR	04/21/26 09:54	04/22/26 08:02
26D1138-09	MW-36	Ground Water	AB/FDR	04/21/26 11:46	04/22/26 08:02
26D1138-10	MW-13	Ground Water	AB/FDR	04/21/26 13:18	04/22/26 08:02
26D1138-11	MW-17	Ground Water	AB/FDR	04/21/26 14:40	04/22/26 08:02
26D1138-12	MW-07	Ground Water	AB/FDR	04/21/26 16:00	04/22/26 08:02
26D1138-13	LLHGTB-04212026	Ground Water	AB/FDR	04/20/26 17:15	04/22/26 08:02
26D1138-14	MW-08	Ground Water	AB/FDR	04/21/26 15:20	04/22/26 08:02
26D1138-15	MWT-08	Ground Water	AB/FDR	04/21/26 16:00	04/22/26 08:02
26D1138-16	MW-30	Ground Water	AB/FDR	04/21/26 11:00	04/22/26 08:02
26D1138-17	MW-31	Ground Water	AB/FDR	04/21/26 09:00	04/22/26 08:02
26D1138-18	MW-32	Ground Water	AB/FDR	04/21/26 12:10	04/22/26 08:02
26D1138-19	MW-42	Ground Water	AB/FDR	04/21/26 14:00	04/22/26 08:02
26D1138-20	MW-02	Ground Water	AB/FDR	04/22/26 09:44	04/23/26 15:00
26D1138-21	MW-09	Ground Water	AB/FDR	04/22/26 11:30	04/23/26 15:00
26D1138-22	MW-11	Ground Water	AB/FDR	04/22/26 13:20	04/23/26 15:00
26D1138-23	MW-06	Ground Water	AB/FDR	04/22/26 14:22	04/23/26 15:00
26D1138-24	MW-01RB	Ground Water	AB/FDR	04/22/26 15:30	04/23/26 15:00
26D1138-25	MW-01R	Ground Water	AB/FDR	04/22/26 16:32	04/23/26 15:00
26D1138-26	MW-41	Ground Water	AB/FDR	04/22/26 08:45	04/23/26 15:00
26D1138-27	MW-20	Ground Water	AB/FDR	04/22/26 10:20	04/23/26 15:00
26D1138-28	MW-43	Ground Water	AB/FDR	04/22/26 11:45	04/23/26 15:00
26D1138-29	MW-27	Ground Water	AB/FDR	04/22/26 13:30	04/23/26 15:00
26D1138-30	MW-34	Ground Water	AB/FDR	04/22/26 15:00	04/23/26 15:00
26D1138-31	MW-18	Ground Water	AB/FDR	04/22/26 16:30	04/23/26 15:00
26D1138-32	LLHGTB-04222026	Ground Water	AB/FDR	04/22/26 17:15	04/23/26 15:00
26D1138-33	MW-10	Ground Water	AB/FDR	04/23/26 09:08	04/23/26 15:00
26D1138-34	MWT-10	Ground Water	AB/FDR	04/23/26 09:08	04/23/26 15:00
26D1138-35	MW-19	Ground Water	AB/FDR	04/23/26 11:40	04/23/26 15:00

CERTIFICATE OF ANALYSIS

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Trace Analytical Laboratories, Inc.
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26D1138-36	MW-28	Ground Water	AB/FDR	04/23/26 12:58	04/23/26 15:00
26D1138-37	MW-39	Ground Water	AB/FDR	04/23/26 09:16	04/23/26 15:00
26D1138-38	MW-16	Ground Water	AB/FDR	04/23/26 10:30	04/23/26 15:00
26D1138-39	MW-33	Ground Water	AB/FDR	04/23/26 11:45	04/23/26 15:00
26D1138-40	SG-02	Surface Water	AB/FDR	04/23/26 13:50	04/23/26 15:00
26D1138-41	SG-04R	Surface Water	AB/FDR	04/23/26 13:30	04/23/26 15:00
26D1138-42	SG-05	Surface Water	AB/FDR	04/23/26 13:15	04/23/26 15:00
26D1138-43	SG-07	Surface Water	AB/FDR	04/23/26 14:00	04/23/26 15:00
26D1138-44	LLHGTB-04232026	Ground Water	AB/FDR	04/23/26 14:10	04/23/26 15:00

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-01 Date Collected: 04/20/26 12:32 Matrix: Ground Water
Sample ID: MW-03 Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**0.58**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**3.5**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**300**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.026**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**170**	**mg/L**	**0.50**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.10**
Potassium	**14**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**69**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00096**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.35**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0037**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00086**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0014**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00029**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0016**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.74**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**72**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**170**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-01 | Date Collected: 04/20/26 12:32 | Matrix: Ground Water
Sample ID: MW-03 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**1300**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**1300**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182095										
Total Dissolved Solids	**1600**	**mg/L**	**44**	**4.444445**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182063										
Total Suspended Solids	**13**	**mg/L**	**4.0**	**1**	**04/23/26**	**eam**	**04/23/26**	**eam**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.63**	**pH Units**		**1**	**04/20/26**	**sab**	**04/22/26**	**cn**	**H04, PH01y**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-02 | Date Collected: 04/20/26 14:04 | Matrix: Ground Water
Sample ID: MW-04 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**1.8**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**310**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.038**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**67**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**9.9**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**32**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00094**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.11**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0019**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00038**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	**0.00013**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.0028**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00014**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00063**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**1.6**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**25**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**530**	**mg/L**	**30**	**50**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-02 | Date Collected: 04/20/26 14:04 | Matrix: Ground Water
Sample ID: MW-04 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**590**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**590**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182004										
Total Dissolved Solids	**1400**	**mg/L**	**32**	**3.174603**	**04/22/26**	**eam**	**04/22/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182063										
Total Suspended Solids	**19**	**mg/L**	**4.0**	**1**	**04/23/26**	**eam**	**04/23/26**	**eam**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.60**	**pH Units**		**1**	**04/20/26**	**sab**	**04/22/26**	**cn**	**H04, PH01z**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-03 | Date Collected: 04/20/26 15:08 | Matrix: Ground Water
Sample ID: MW-04R | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**3.1**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**310**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.035**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**63**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**13**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**60**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00058**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.23**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0011**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00056**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	<0.00032	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00032
Selenium	<0.00010	mg/L	0.00050	1	04/30/26	ejb	05/05/26	jma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00031**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**1.3**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**89**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**100**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-03 | Date Collected: 04/20/26 15:08 | Matrix: Ground Water
Sample ID: MW-04R | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**1100**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**1100**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182004										
Total Dissolved Solids	**1300**	**mg/L**	**31**	**3.125**	**04/22/26**	**eam**	**04/22/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182063										
Total Suspended Solids	**5.0**	**mg/L**	**4.0**	**1**	**04/23/26**	**eam**	**04/23/26**	**eam**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.64**	**pH Units**		**1**	**04/20/26**	**sab**	**04/22/26**	**cn**	**H04, PH01aa**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-04 | Date Collected: 04/20/26 16:20 | Matrix: Ground Water
Sample ID: MW-12 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**5.1**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**0.14**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**37**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.0041**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**6.9**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**2.8**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**6.8**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	**0.00099**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0014**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.063**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.00065**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.00051**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00013**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	**0.00041**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.0063**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00023**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00094**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.29**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**9.0**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**25**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-04 | Date Collected: 04/20/26 16:20 | Matrix: Ground Water
Sample ID: MW-12 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**100**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**100**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182004										
Total Dissolved Solids	**140**	**mg/L**	**14**	**1.428571**	**04/22/26**	**eam**	**04/22/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182063										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/23/26	eam	04/23/26	eam		4.0
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.94**	**pH Units**		**1**	**04/20/26**	**sab**	**04/22/26**	**cn**	**H04, PH01ab**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-05 | Date Collected: 04/20/26 16:20 | Matrix: Ground Water
Sample ID: MWT-12 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**5.2**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**0.13**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**37**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.0042**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**6.9**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**3.0**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**6.8**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	**0.00096**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0013**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.063**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.00052**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.00043**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/30/26	ejb	05/05/26	jma		0.00010
Lead	**0.00044**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.0061**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00028**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00086**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.34**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**9.1**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**25**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-05 | Date Collected: 04/20/26 16:20 | Matrix: Ground Water
Sample ID: MWT-12 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**100**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**100**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182004										
Total Dissolved Solids	**150**	**mg/L**	**20**	**2**	**04/22/26**	**eam**	**04/22/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182063										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/23/26	eam	04/23/26	eam		4.0
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.88**	**pH Units**		**1**	**04/20/26**	**sab**	**04/22/26**	**cn**	**H04, PH01ac**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-06 Date Collected: 04/20/26 17:15 Matrix: Ground Water
Sample ID: LLHGTB-04202026 Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	<	ng/L	0.20	1	04/29/26	drm	04/30/26	drm		

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-07 | Date Collected: 04/21/26 08:42 | Matrix: Ground Water
Sample ID: MW-38 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**13**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182433										
Boron	**0.022**	**mg/L**	**0.0088**	**1**	**05/01/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**630**	**mg/L**	**2.6**	**10**	**05/01/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.20**	**mg/L**	**0.0025**	**1**	**05/01/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**0.028**	**mg/L**	**0.10**	**1**	**05/01/26**	**ejb**	**05/06/26**	**cma**	**J**	**0.010**
Potassium	**260**	**mg/L**	**2.5**	**10**	**05/01/26**	**ejb**	**05/06/26**	**cma**		**0.36**
Sodium	**100**	**mg/L**	**1.2**	**10**	**05/01/26**	**ejb**	**05/06/26**	**cma**		**0.88**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182433										
Antimony	<0.00050	mg/L	0.0012	5	05/01/26	ejb	05/07/26	jma		0.00050
Arsenic	**0.00057**	**mg/L**	**0.0028**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**	**J**	**0.00050**
Barium	**0.57**	**mg/L**	**0.012**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**		**0.0015**
Beryllium	<0.00050	mg/L	0.0012	5	05/01/26	ejb	05/07/26	jma		0.00050
Cadmium	<0.00038	mg/L	0.0012	5	05/01/26	ejb	05/07/26	jma		0.00038
Chromium	<0.0010	mg/L	0.0012	5	05/01/26	ejb	05/07/26	jma		0.0010
Cobalt	**0.0031**	**mg/L**	**0.0026**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**		**0.00050**
Lead	**0.0021**	**mg/L**	**0.0028**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**	**J**	**0.00050**
Molybdenum	**0.0059**	**mg/L**	**0.0062**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**	**J**	**0.0016**
Selenium	**0.0020**	**mg/L**	**0.0025**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**	**J**	**0.00050**
Thallium	<0.00038	mg/L	0.0019	5	05/01/26	ejb	05/07/26	jma		0.00038
Vanadium	<0.0014	mg/L	0.0062	5	05/01/26	ejb	05/07/26	jma		0.0014
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.68**	**mg/L**	**0.50**	**25**	**04/22/26**	**aeo**	**04/23/26**	**ljs**	**N**	**0.28**
Chloride	**10**	**mg/L**	**3.8**	**25**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**3.0**
Sulfate as SO4	**15**	**mg/L**	**15**	**25**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**1.4**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-07 | Date Collected: 04/21/26 08:42 | Matrix: Ground Water
Sample ID: MW-38 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**2000**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**2000**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**1800**	**mg/L**	**40**	**4**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/24/26	mp	04/24/26	mp		4.0
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**8.11**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**H04, PH01ad**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-08 | Date Collected: 04/21/26 09:54 | Matrix: Ground Water
Sample ID: MW-37 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**2.8**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**0.90**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**110**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.037**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**10**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**31**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**20**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	**0.0012**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.00066**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.035**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.000090**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.000075**
Chromium	**0.00087**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00025**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	**0.00017**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.018**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.0095**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.49**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**3.0**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**130**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-08 | Date Collected: 04/21/26 09:54 | Matrix: Ground Water
Sample ID: MW-37 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**270**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**270**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**530**	**mg/L**	**41**	**4.081633**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/24/26	mp	04/24/26	mp		4.0
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.86**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**H04, PH01ad**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-09 | Date Collected: 04/21/26 11:46 | Matrix: Ground Water
Sample ID: MW-36 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**5.5**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**0.29**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**72**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.0092**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**11**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**39**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**46**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	**0.00082**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.012**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.22**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00063**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00017**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	**0.0045**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.026**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00090**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0029**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.53**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**17**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**21**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-09 | Date Collected: 04/21/26 11:46 | Matrix: Ground Water
Sample ID: MW-36 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**320**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**320**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**410**	**mg/L**	**53**	**5.263158**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**22**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**8.80**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**H02, PH01ae**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-10 | Date Collected: 04/21/26 13:18 | Matrix: Ground Water
Sample ID: MW-13 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**1.2**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**390**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.035**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**34**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**6.0**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**11**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00035**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Barium	**0.11**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0012**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/30/26	ejb	05/05/26	jma		0.00010
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0053**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	<0.00010	mg/L	0.00050	1	04/30/26	ejb	05/05/26	jma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00028**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.44**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**4.9**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**750**	**mg/L**	**30**	**50**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-10 | Date Collected: 04/21/26 13:18 | Matrix: Ground Water
Sample ID: MW-13 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**370**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**370**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**1100**	**mg/L**	**51**	**5.128205**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/24/26	mp	04/24/26	mp		4.0
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.43**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**PH01af**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-11 | Date Collected: 04/21/26 14:40 | Matrix: Ground Water
Sample ID: MW-17 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**1.4**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**0.46**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**120**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.022**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**22**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**11**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**38**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.0016**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.63**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00054**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00026**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	**0.00090**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.00092**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00032**
Selenium	**0.00017**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00063**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.54**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**21**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**1.1**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**J**	**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-11 | Date Collected: 04/21/26 14:40 | Matrix: Ground Water
Sample ID: MW-17 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**510**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**510**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**470**	**mg/L**	**47**	**4.651163**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**15**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.80**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**PH01ag**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-12 | Date Collected: 04/21/26 16:00 | Matrix: Ground Water
Sample ID: MW-07 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**6.9**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**150**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.0085**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**36**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**4.4**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**56**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00015**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Barium	**0.34**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00025**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0012**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	<0.00032	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00032
Selenium	**0.00011**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00060**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.15**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**J, N**	**0.11**
Chloride	**15**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**16**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-12 | Date Collected: 04/21/26 16:00 | Matrix: Ground Water
Sample ID: MW-07 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**710**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**710**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**740**	**mg/L**	**51**	**5.128205**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**55**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.07**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**PH01ah**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-13 Date Collected: 04/20/26 17:15 Matrix: Ground Water
Sample ID: LLHGTB-04212026 Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	<	ng/L	0.20	1	04/29/26	drm	04/30/26	drm		

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-14 | Date Collected: 04/21/26 15:20 | Matrix: Ground Water
Sample ID: MW-08 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**1.2**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**4.6**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**85**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.066**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**16**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**6.7**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**23**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.057**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.58**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00056**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00022**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	**0.00058**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.0027**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	<0.00010	mg/L	0.00050	1	04/30/26	ejb	05/05/26	jma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**1.1**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**18**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**34**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-14 | Date Collected: 04/21/26 15:20 | Matrix: Ground Water
Sample ID: MW-08 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**300**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**300**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**400**	**mg/L**	**50**	**5**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**8.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.61**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**PH01ai**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-15 | Date Collected: 04/21/26 16:00 | Matrix: Ground Water
Sample ID: MWT-08 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**1.6**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**4.8**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**84**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.070**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**17**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**6.8**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**23**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.059**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.68**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00054**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00022**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	**0.00050**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.0028**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	<0.00010	mg/L	0.00050	1	04/30/26	ejb	05/05/26	jma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**1.2**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**18**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**30**	**mg/L**	**6.0**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-15 | Date Collected: 04/21/26 16:00 | Matrix: Ground Water
Sample ID: MWT-08 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**300**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**300**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**400**	**mg/L**	**49**	**4.878049**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**5.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.56**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**PH01aj**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-16 | Date Collected: 04/21/26 11:00 | Matrix: Ground Water
Sample ID: MW-30 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**1.3**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**440**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.12**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**90**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**11**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**170**	**mg/L**	**1.2**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.88**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00078**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.050**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0045**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00061**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0046**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00015**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**1.2**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**350**	**mg/L**	**7.5**	**50**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**6.0**
Sulfate as SO4	**860**	**mg/L**	**30**	**50**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-16 | Date Collected: 04/21/26 11:00 | Matrix: Ground Water
Sample ID: MW-30 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**2300**	**mg/L**	**49**	**4.878049**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**8.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.22**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**H02, PH01ak**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-17 | Date Collected: 04/21/26 09:00 | Matrix: Ground Water
Sample ID: MW-31 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**1.6**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**6.2**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**270**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.083**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**51**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**13**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**57**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	**0.00026**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0055**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.28**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0065**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00042**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0057**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00093**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00047**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**3.2**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**120**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**360**	**mg/L**	**15**	**25**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**1.4**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-17 | Date Collected: 04/21/26 09:00 | Matrix: Ground Water
Sample ID: MW-31 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**550**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**550**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**1300**	**mg/L**	**43**	**4.347826**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**11**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.57**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**H02, PH01ak**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-18 | Date Collected: 04/21/26 12:10 | Matrix: Ground Water
Sample ID: MW-32 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**3.2**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**230**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.096**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**32**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**7.8**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**22**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00039**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Barium	**0.21**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.00036**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.00037**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0028**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0020**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	<0.00010	mg/L	0.00050	1	04/30/26	ejb	05/05/26	jma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**1.1**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**28**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**340**	**mg/L**	**15**	**25**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**1.4**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-18 | Date Collected: 04/21/26 12:10 | Matrix: Ground Water
Sample ID: MW-32 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**400**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**400**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**870**	**mg/L**	**44**	**4.444445**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**56**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.48**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**PH01al**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-19 | Date Collected: 04/21/26 14:00 | Matrix: Ground Water
Sample ID: MW-42 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**3.0**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**1.2**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**200**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.10**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**62**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**8.4**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**40**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	**0.00016**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Arsenic	**0.0011**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.065**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.00045**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.00027**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0035**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.0026**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.0026**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00022**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182008										
Fluoride	**0.36**	**mg/L**	**0.20**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**	**N**	**0.11**
Chloride	**43**	**mg/L**	**1.5**	**10**	**04/22/26**	**aeo**	**04/22/26**	**ljs**		**1.2**
Sulfate as SO4	**410**	**mg/L**	**15**	**25**	**04/22/26**	**aeo**	**04/23/26**	**ljs**		**1.4**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-19 | Date Collected: 04/21/26 14:00 | Matrix: Ground Water
Sample ID: MW-42 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**400**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**400**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182030										
Total Dissolved Solids	**1000**	**mg/L**	**50**	**5**	**04/23/26**	**eam**	**04/23/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**21**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182067										
pH	**7.15**	**pH Units**		**1**	**04/21/26**	**sab**	**04/22/26**	**cn**	**PH01am**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-20 | Date Collected: 04/22/26 09:44 | Matrix: Ground Water
Sample ID: MW-02 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182302										
Mercury	**1.2**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**72**	**mg/L**	**0.44**	**50**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.26**
Calcium	**210**	**mg/L**	**13**	**50**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**1.8**
Lithium	**1.0**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**66**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**40**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**230**	**mg/L**	**6.2**	**50**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**4.4**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	**0.00011**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Arsenic	**0.0054**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.47**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.014**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0034**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.00045**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.0089**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00070**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0012**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**8.3**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**	**N**	**0.11**
Chloride	**120**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**1.2**
Sulfate as SO4	**51**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-20 | Date Collected: 04/22/26 09:44 | Matrix: Ground Water
Sample ID: MW-02 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**1700**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**1700**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**1600**	**mg/L**	**42**	**4.166667**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**100**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**6.99**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-21 | Date Collected: 04/22/26 11:30 | Matrix: Ground Water
Sample ID: MW-09 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**4.0**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**2.3**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**530**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.54**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**100**	**mg/L**	**0.50**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.10**
Potassium	**13**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**64**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	**0.00020**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Arsenic	**0.0033**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.046**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0016**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0064**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.00034**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.023**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00097**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00034**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**1.6**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**	**N**	**0.11**
Chloride	**93**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**1.2**
Sulfate as SO4	**1300**	**mg/L**	**150**	**250**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**14**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-21 Date Collected: 04/22/26 11:30 Matrix: Ground Water
Sample ID: MW-09 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**400**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**400**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**2400**	**mg/L**	**42**	**4.166667**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**47**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**6.82**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01b**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-22 | Date Collected: 04/22/26 13:20 | Matrix: Ground Water
Sample ID: MW-11 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**13**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Boron	**12**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**130**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.14**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**59**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**18**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**59**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.0041**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**1.4**	**mg/L**	**0.012**	**5**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.0015**
Beryllium	**0.00011**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0011**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00068**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.0035**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.0043**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00029**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00056**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**1.6**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**	**N**	**0.11**
Chloride	**46**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**1.2**
Sulfate as SO4	**7.2**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-22 | Date Collected: 04/22/26 13:20 | Matrix: Ground Water
Sample ID: MW-11 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182398										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**670**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**670**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**760**	**mg/L**	**50**	**5**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**63**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.05**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01c**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-23 | Date Collected: 04/22/26 14:22 | Matrix: Ground Water
Sample ID: MW-06 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**0.89**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**8.8**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**200**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.14**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**110**	**mg/L**	**0.50**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.10**
Potassium	**21**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**75**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.00027**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.00081**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**1.4**	**mg/L**	**0.012**	**5**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.0015**
Beryllium	**0.00029**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0011**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0034**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.00035**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.0051**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00040**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	**0.00017**	**mg/L**	**0.00038**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.000075**
Vanadium	**0.0039**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**1.3**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**	**N**	**0.11**
Chloride	**25**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**1.2**
Sulfate as SO4	**100**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-23 | Date Collected: 04/22/26 14:22 | Matrix: Ground Water
Sample ID: MW-06 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**980**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**980**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**1200**	**mg/L**	**45**	**4.545455**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**19**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.27**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01d**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-24 | Date Collected: 04/22/26 15:30 | Matrix: Ground Water
Sample ID: MW-01RB | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**3.2**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**140**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.047**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**32**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**11**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**43**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00046**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Barium	**0.29**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00023**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00020**
Cobalt	**0.00037**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.00048**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00032**
Selenium	<0.00010	mg/L	0.00050	1	04/30/26	ejb	05/05/26	jma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00042**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**0.50**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**	**N**	**0.11**
Chloride	**43**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**1.2**
Sulfate as SO4	**11**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-24 | Date Collected: 04/22/26 15:30 | Matrix: Ground Water
Sample ID: MW-01RB | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**530**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**640**	**mg/L**	**41**	**4.081633**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**12**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**6.78**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01e**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-25 | Date Collected: 04/22/26 16:32 | Matrix: Ground Water
Sample ID: MW-01R | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**6.3**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**55**	**mg/L**	**0.44**	**50**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.26**
Calcium	**420**	**mg/L**	**13**	**50**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**1.8**
Lithium	**1.3**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**110**	**mg/L**	**2.5**	**50**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.50**
Potassium	**48**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**200**	**mg/L**	**6.2**	**50**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**4.4**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.0029**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0015**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.22**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	**0.00011**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Cadmium	**0.0019**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.0015**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.084**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.0075**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.0058**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.0026**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0024**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**6.9**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**	**N**	**0.11**
Chloride	**46**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/24/26**	**ljs**		**1.2**
Sulfate as SO4	**1000**	**mg/L**	**150**	**250**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**14**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-25 | Date Collected: 04/22/26 16:32 | Matrix: Ground Water
Sample ID: MW-01R | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**810**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**810**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**2500**	**mg/L**	**44**	**4.444445**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**27**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.39**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01f**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-26 | Date Collected: 04/22/26 08:45 | Matrix: Ground Water
Sample ID: MW-41 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**3.3**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**7.7**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**300**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.23**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**150**	**mg/L**	**0.50**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.10**
Potassium	**18**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**130**	**mg/L**	**1.2**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.88**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.0016**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0022**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.099**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.000075**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.000075**
Chromium	**0.013**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00063**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.00019**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.022**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.021**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0057**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**1.1**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**170**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**720**	**mg/L**	**60**	**100**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**5.8**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-26 | Date Collected: 04/22/26 08:45 | Matrix: Ground Water
Sample ID: MW-41 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**580**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**580**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**2000**	**mg/L**	**40**	**4**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**4.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.32**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01g**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-27 | Date Collected: 04/22/26 10:20 | Matrix: Ground Water
Sample ID: MW-20 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**7.5**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**0.87**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**140**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.038**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**40**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**6.6**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**39**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.0012**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.33**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Cobalt	**0.00097**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.0013**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.0024**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	<0.00010	mg/L	0.00050	1	04/30/26	ejb	05/05/26	jma		0.00010
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**0.20**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**20**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**54**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-27 | Date Collected: 04/22/26 10:20 | Matrix: Ground Water
Sample ID: MW-20 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**500**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**500**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**630**	**mg/L**	**40**	**4**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182133										
Total Suspended Solids	**24**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.18**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01h**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-28 Date Collected: 04/22/26 11:45 Matrix: Ground Water
Sample ID: MW-43 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**13**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**76**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.18**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**11**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**15**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**37**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.0041**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0076**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.72**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.0093**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.00032**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.11**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0052**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.0048**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00076**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**5.9**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**1.5**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**22**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-28 | Date Collected: 04/22/26 11:45 | Matrix: Ground Water
Sample ID: MW-43 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**300**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**300**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**410**	**mg/L**	**43**	**4.347826**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/24/26	mp	04/24/26	mp		4.0
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.46**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01i**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-29 Date Collected: 04/22/26 13:30 Matrix: Ground Water
Sample ID: MW-27 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**0.52**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**0.25**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**61**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.0039**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**25**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**1.6**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**31**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00062**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.050**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0083**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/30/26	ejb	05/05/26	jma		0.00010
Lead	**0.00026**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	<0.00032	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00032
Selenium	**0.00012**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00054**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**0.52**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**9.3**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**10**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-29 | Date Collected: 04/22/26 13:30 | Matrix: Ground Water
Sample ID: MW-27 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**370**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**370**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**340**	**mg/L**	**43**	**4.347826**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	<4.0	mg/L	4.0	1	04/24/26	mp	04/24/26	mp		4.0
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.11**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01j**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-30 Date Collected: 04/22/26 15:00 Matrix: Ground Water
Sample ID: MW-34 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**3.3**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**1.6**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**220**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.045**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**21**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**9.4**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**18**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.00020**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Arsenic	**0.0013**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.47**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.024**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0016**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.0014**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.00048**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00032**
Selenium	**0.00016**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0012**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**0.29**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**18**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**0.87**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**J**	**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-30 | Date Collected: 04/22/26 15:00 | Matrix: Ground Water
Sample ID: MW-34 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**920**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**920**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**790**	**mg/L**	**65**	**6.451613**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**110**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**6.61**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H04, PH01k**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-31 | Date Collected: 04/22/26 16:30 | Matrix: Ground Water
Sample ID: MW-18 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**1.2**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**1.5**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**190**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.037**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**17**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**5.7**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**13**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.0011**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0097**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.088**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.0010**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.00088**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00080**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.020**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.0066**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00031**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**3.5**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**16**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**300**	**mg/L**	**15**	**25**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.4**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-31 | Date Collected: 04/22/26 16:30 | Matrix: Ground Water
Sample ID: MW-18 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**230**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**230**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**740**	**mg/L**	**40**	**4**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**4.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.12**	**pH Units**		**1**	**04/22/26**	**mj**	**04/24/26**	**mj**	**H02, PH01I**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-32 Date Collected: 04/22/26 17:15 Matrix: Ground Water
Sample ID: LLHGTB-04222026 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	<	ng/L	0.20	1	04/29/26	drm	04/30/26	drm		

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-33 Date Collected: 04/23/26 09:08 Matrix: Ground Water
Sample ID: MW-10 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**21**	**mg/L**	**0.088**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.051**
Calcium	**210**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.76**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**68**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**33**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**210**	**mg/L**	**1.2**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.88**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00054**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Barium	**0.48**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0041**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00028**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0020**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00026**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00045**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**5.4**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**280**	**mg/L**	**3.8**	**25**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**3.0**
Sulfate as SO4	**270**	**mg/L**	**15**	**25**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.4**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-33 | Date Collected: 04/23/26 09:08 | Matrix: Ground Water
Sample ID: MW-10 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**690**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**690**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**1500**	**mg/L**	**40**	**4**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**6.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.53**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**H02, PH01m**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-34 Date Collected: 04/23/26 09:08 Matrix: Ground Water
Sample ID: MWT-10 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**21**	**mg/L**	**0.18**	**20**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.10**
Calcium	**210**	**mg/L**	**5.1**	**20**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.74**
Lithium	**0.77**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**69**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**33**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**220**	**mg/L**	**2.5**	**20**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**1.8**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.00057**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.48**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.0041**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00025**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0023**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00023**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00041**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**5.4**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**280**	**mg/L**	**3.8**	**25**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**3.0**
Sulfate as SO4	**270**	**mg/L**	**15**	**25**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.4**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-34 | Date Collected: 04/23/26 09:08 | Matrix: Ground Water
Sample ID: MWT-10 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**710**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**710**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**1500**	**mg/L**	**40**	**4**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**6.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.57**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**H02, PH01n**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-35 Date Collected: 04/23/26 11:40 Matrix: Ground Water
Sample ID: MW-19 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**1.7**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**380**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.072**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**33**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**12**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**21**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.0010**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.028**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	**0.00015**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Cobalt	**0.00046**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0085**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00014**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00041**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**1.8**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**17**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**770**	**mg/L**	**60**	**100**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**5.8**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-35 Date Collected: 04/23/26 11:40 Matrix: Ground Water
Sample ID: MW-19 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**270**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**270**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**1500**	**mg/L**	**40**	**4**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**7.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**6.89**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**PH01o**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-36 Date Collected: 04/23/26 12:58 Matrix: Ground Water
Sample ID: MW-28 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**32**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**0.56**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**140**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.012**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**22**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**7.0**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**22**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.0012**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0028**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.32**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.00064**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.016**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0024**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.015**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.0053**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00039**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0010**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**0.50**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**21**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**36**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-36 | Date Collected: 04/23/26 12:58 | Matrix: Ground Water
Sample ID: MW-28 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**430**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**430**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**540**	**mg/L**	**48**	**4.761905**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**32**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**6.87**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**PH01p**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-37 Date Collected: 04/23/26 09:16 Matrix: Ground Water
Sample ID: MW-39 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**8.9**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**0.71**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**230**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.029**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**23**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**14**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**21**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.00019**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Arsenic	**0.0019**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.064**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.00098**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000075**
Chromium	**0.0017**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0014**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.0037**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.0031**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.0017**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**0.21**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**5.7**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**410**	**mg/L**	**30**	**50**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-37 | Date Collected: 04/23/26 09:16 | Matrix: Ground Water
Sample ID: MW-39 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**340**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**340**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**930**	**mg/L**	**42**	**4.166667**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**27**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.24**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**H02, PH01q**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-38 Date Collected: 04/23/26 10:30 Matrix: Ground Water
Sample ID: MW-16 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	<	ng/L	0.50	1	04/29/26	drm	04/30/26	drm		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**0.21**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**200**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.015**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**21**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**3.7**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**16**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Arsenic	**0.014**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.38**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00073**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00063**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.00055**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00032**
Selenium	**0.00013**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00065**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**0.19**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**J, N**	**0.11**
Chloride	**17**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**190**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-38 | Date Collected: 04/23/26 10:30 | Matrix: Ground Water
Sample ID: MW-16 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**410**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**410**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**760**	**mg/L**	**42**	**4.166667**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**29**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.06**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**H02, PH01r**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-39 | Date Collected: 04/23/26 11:45 | Matrix: Ground Water
Sample ID: MW-33 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**6.3**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**0.058**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**140**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.0035**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**14**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**2.8**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**8.7**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.0012**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0022**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.059**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	**0.00017**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.000075**
Chromium	**0.0041**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.0021**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.00018**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.0071**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00061**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0011**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**0.40**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**17**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**41**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-39 | Date Collected: 04/23/26 11:45 | Matrix: Ground Water
Sample ID: MW-33 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**350**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**350**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**570**	**mg/L**	**43**	**4.347826**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**4.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.14**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**PH01s**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-40 Date Collected: 04/23/26 13:50 Matrix: Surface Water
Sample ID: SG-02 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182303										
Mercury	**3.7**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**2.2**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**200**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.048**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**31**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**7.0**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**23**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.00050**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0012**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.051**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00029**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	<0.00010	mg/L	0.00052	1	04/30/26	ejb	05/05/26	jma		0.00010
Lead	**0.00054**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.019**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.0013**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00088**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182136										
Fluoride	**1.5**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**39**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**480**	**mg/L**	**30**	**50**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-40 Date Collected: 04/23/26 13:50 Matrix: Surface Water
Sample ID: SG-02 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**140**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**140**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182225										
Total Dissolved Solids	**880**	**mg/L**	**40**	**4**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**9.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182199										
pH	**7.65**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**PH01t**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-41 | Date Collected: 04/23/26 13:30 | Matrix: Surface Water
Sample ID: SG-04R | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182304										
Mercury	**2.6**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**2.2**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**190**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.035**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**26**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**6.8**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**27**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.00025**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.0025**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.049**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Cobalt	**0.00021**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	<0.00010	mg/L	0.00055	1	04/30/26	ejb	05/05/26	jma		0.00010
Molybdenum	**0.0093**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.0013**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.00056**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182137										
Fluoride	**1.4**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**31**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**400**	**mg/L**	**30**	**50**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**2.9**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-41 | Date Collected: 04/23/26 13:30 | Matrix: Surface Water
Sample ID: SG-04R | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**180**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**180**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182233										
Total Dissolved Solids	**810**	**mg/L**	**41**	**4.081633**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**8.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182202										
pH	**7.89**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**PH01u**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-42 | Date Collected: 04/23/26 13:15 | Matrix: Surface Water
Sample ID: SG-05 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182304										
Mercury	**7.5**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**0.50**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**130**	**mg/L**	**2.6**	**10**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.37**
Lithium	**0.032**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**N**	**0.0019**
Magnesium	**23**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**7.2**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**32**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.00027**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Arsenic	**0.00076**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.54**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00025**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00055**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Lead	**0.00025**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Molybdenum	**0.0014**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00014**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	<0.00028	mg/L	0.0012	1	04/30/26	ejb	05/05/26	jma		0.00028
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182137										
Fluoride	**0.69**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**N**	**0.11**
Chloride	**25**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**25**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-42 | Date Collected: 04/23/26 13:15 | Matrix: Surface Water
Sample ID: SG-05 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**450**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**450**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182233										
Total Dissolved Solids	**540**	**mg/L**	**43**	**4.255319**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**13**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182202										
pH	**7.50**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**PH01w**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-43 Date Collected: 04/23/26 14:00 Matrix: Surface Water
Sample ID: SG-07 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182304										
Mercury	**3.2**	**ng/L**	**0.50**	**1**	**04/29/26**	**drm**	**04/30/26**	**drm**		
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Boron	**0.055**	**mg/L**	**0.0088**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0051**
Calcium	**54**	**mg/L**	**0.26**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.037**
Lithium	**0.0023**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**J, N**	**0.0019**
Magnesium	**14**	**mg/L**	**0.10**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.010**
Potassium	**3.9**	**mg/L**	**0.25**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.036**
Sodium	**16**	**mg/L**	**0.12**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.088**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Antimony	**0.00014**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Arsenic	**0.0011**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Barium	**0.050**	**mg/L**	**0.0025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00030**
Beryllium	<0.00010	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00010
Cadmium	<0.000075	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.000075
Chromium	**0.00066**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Cobalt	**0.00020**	**mg/L**	**0.00052**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Lead	**0.00060**	**mg/L**	**0.00055**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00010**
Molybdenum	**0.0020**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00032**
Selenium	**0.00035**	**mg/L**	**0.00050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00010**
Thallium	<0.000075	mg/L	0.00038	1	04/30/26	ejb	05/05/26	jma		0.000075
Vanadium	**0.0011**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00028**
WET CHEMISTRY										
Analysis Method: EPA 300.0 Rev. 2.1										
Batch: T182137										
Fluoride	**0.11**	**mg/L**	**0.20**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**	**J, N**	**0.11**
Chloride	**28**	**mg/L**	**1.5**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**1.2**
Sulfate as SO4	**25**	**mg/L**	**6.0**	**10**	**04/24/26**	**aeo**	**04/25/26**	**ljs**		**0.58**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-43 | Date Collected: 04/23/26 14:00 | Matrix: Surface Water
Sample ID: SG-07 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
WET CHEMISTRY										
Analysis Method: SM 2320 B-21										
Batch: T182405										
Bicarbonate Alkalinity as CaCO3 at pH 4.5	**160**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**	**N**	**0.31**
Carbonate Alkalinity as CaCO3 at pH 8.2	<0.31	mg/L	10	2	04/30/26	ans	04/30/26	ans	N	0.31
Total Alkalinity as CaCO3 at pH 4.5	**160**	**mg/L**	**10**	**2**	**04/30/26**	**ans**	**04/30/26**	**ans**		**0.31**
Analysis Method: SM 2540 C-20										
Batch: T182233										
Total Dissolved Solids	**260**	**mg/L**	**44**	**4.444445**	**04/27/26**	**eam**	**04/27/26**	**eam**		
Analysis Method: SM 2540 D-20										
Batch: T182135										
Total Suspended Solids	**8.0**	**mg/L**	**4.0**	**1**	**04/24/26**	**mp**	**04/24/26**	**mp**		**4.0**
Analysis Method: SM 4500-H+ B-11										
Batch: T182202										
pH	**7.80**	**pH Units**		**1**	**04/23/26**	**mj**	**04/24/26**	**mj**	**PH01x**	

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-44 Date Collected: 04/23/26 14:10 Matrix: Ground Water
Sample ID: LLHGTB-04232026 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 1631E										
Batch: T182304										
Mercury	<	ng/L	0.20	1	04/29/26	drm	04/30/26	drm		

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QUALITY CONTROL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182302
QC Batch Method: EPA 1631E
Analysis Description: Mercury, Total, Low Level
Analysis Method: EPA 1631E

METHOD BLANK: T182302-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T182302-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T182302-BLK3

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

LABORATORY CONTROL SAMPLE: T182302-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	ng/L	5.000	4.10	82	77-123	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T182302-MSD1 Original: **26D1138-04**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	5.09	10.00	16.0	16.6	109	116	71-125	6	24	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T182302-MSD2 Original: **26D1138-05**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	5.15	10.00	16.2	16.8	110	116	71-125	5	24	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182303
QC Batch Method: EPA 1631E
Analysis Description: Mercury, Total, Low Level
Analysis Method: EPA 1631E

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METHOD BLANK: T182303-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T182303-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T182303-BLK3

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

LABORATORY CONTROL SAMPLE: T182303-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	ng/L	5.000	4.22	84	77-123	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T182303-MSD1 Original: **26D1138-26**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	3.32	10.00	13.0	12.8	97	94	71-125	2	24	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T182303-MSD2 Original: **26D1138-28**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	0.361	10.00	9.77	9.77	94	94	71-125	0.09	24	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182304
QC Batch Method: EPA 1631E
Analysis Description: Mercury, Total, Low Level
Analysis Method: EPA 1631E

METHOD BLANK: T182304-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

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METHOD BLANK: T182304-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

METHOD BLANK: T182304-BLK3

Parameter	Units	Blank Result	Reporting Limit	Notes
Mercury	ng/L	<0.20	0.20	

LABORATORY CONTROL SAMPLE: T182304-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Mercury	ng/L	5.000	4.22	84	77-123	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T182304-MSD1 Original: **26D1138-41**

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Mercury	ng/L	2.63	10.00	12.4	12.1	97	95	71-125	2	24	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182350
QC Batch Method: EPA 200.2
Analysis Description: Calcium, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T182350-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Potassium	mg/L	<0.25	0.25	
Lithium	mg/L	<0.0025	0.0025	
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T182350-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.600	1.48	93	85-115	
Calcium	mg/L	16.00	15.0	94	85-115	
Potassium	mg/L	16.00	15.1	94	85-115	
Lithium	mg/L	1.600	1.52	95	85-115	

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LABORATORY CONTROL SAMPLE: T182350-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Magnesium	mg/L	16.00	15.1	94	85-115	
Sodium	mg/L	16.00	15.0	94	85-115	

MATRIX SPIKE: T182350-MS1 Original: **26D1138-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	3.46	1.600	4.94	93	70-130	
Calcium	**mg/L**	**303**	**16.00**	308	**29**	**70-130**	**MS09**
Potassium	mg/L	14.1	16.00	29.1	94	70-130	
Lithium	mg/L	0.0257	1.600	1.55	95	70-130	
Magnesium	**mg/L**	**170**	**16.00**	175	**33**	**70-130**	**MS09**
Sodium	mg/L	68.8	16.00	83.3	91	70-130	

MATRIX SPIKE: T182350-MS2 Original: **26D1138-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	1.84	1.600	3.30	91	70-130	
Calcium	**mg/L**	**315**	**16.00**	296	**-115**	**70-130**	**MS09**
Potassium	mg/L	9.88	16.00	24.4	91	70-130	
Lithium	mg/L	0.0377	1.600	1.56	95	70-130	
Magnesium	mg/L	67.3	16.00	81.5	89	70-130	
Sodium	mg/L	32.2	16.00	45.1	81	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182351
QC Batch Method: EPA 200.2
Analysis Description: Calcium, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T182351-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Potassium	mg/L	<0.25	0.25	
Lithium	mg/L	<0.0025	0.0025	
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

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LABORATORY CONTROL SAMPLE: T182351-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.600	1.49	93	85-115	
Calcium	mg/L	16.00	15.3	96	85-115	
Potassium	mg/L	16.00	15.3	96	85-115	
Lithium	mg/L	1.600	1.54	96	85-115	
Magnesium	mg/L	16.00	15.6	97	85-115	
Sodium	mg/L	16.00	15.4	96	85-115	

MATRIX SPIKE: T182351-MS1 Original: **26D1138-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	8.79	1.600	10.5	108	70-130	
Calcium	**mg/L**	**202**	**16.00**	211	**55**	**70-130**	**MS09**
Potassium	mg/L	21.2	16.00	36.3	95	70-130	
Lithium	mg/L	0.143	1.600	1.65	94	70-130	
Magnesium	mg/L	114	16.00	122	48	70-130	
Sodium	mg/L	74.6	16.00	90.0	96	70-130	

MATRIX SPIKE: T182351-MS2 Original: **26D1138-24**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	3.20	1.600	4.63	89	70-130	
Calcium	**mg/L**	**136**	**16.00**	146	**59**	**70-130**	**MS09**
Potassium	mg/L	10.8	16.00	26.1	96	70-130	
Lithium	mg/L	0.0470	1.600	1.59	97	70-130	
Magnesium	mg/L	32.1	16.00	48.8	104	70-130	
Sodium	mg/L	43.1	16.00	58.8	98	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182433
QC Batch Method: EPA 200.2
Analysis Description: Calcium, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T182433-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Boron	mg/L	<0.0088	0.0088	
Calcium	mg/L	<0.26	0.26	
Potassium	mg/L	<0.25	0.25	
Lithium	mg/L	<0.0025	0.0025	

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METHOD BLANK: T182433-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Magnesium	mg/L	<0.10	0.10	
Sodium	mg/L	<0.12	0.12	

LABORATORY CONTROL SAMPLE: T182433-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Boron	mg/L	1.600	1.48	93	85-115	
Calcium	mg/L	16.00	15.0	94	85-115	
Potassium	mg/L	16.00	15.1	94	85-115	
Lithium	mg/L	1.600	1.52	95	85-115	
Magnesium	mg/L	16.00	15.3	95	85-115	
Sodium	mg/L	16.00	15.1	94	85-115	

MATRIX SPIKE: T182433-MS1 Original: **26D1138-07**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Boron	mg/L	0.0219	1.600	1.58	97	70-130	
Calcium	**mg/L**	**626**	**16.00**	617	**-56**	**70-130**	**MS09**
Potassium	**mg/L**	**257**	**16.00**	255	**-11**	**70-130**	**MS09**
Lithium	mg/L	0.203	1.600	1.77	98	70-130	
Magnesium	mg/L	0	16.00	15.6	98	70-130	
Sodium	**mg/L**	**103**	**16.00**	111	**47**	**70-130**	**MS09**

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182350
QC Batch Method: EPA 200.2
Analysis Description: Cadmium, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T182350-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	

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METHOD BLANK: T182350-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	
Vanadium	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T182350-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Arsenic	mg/L	0.1000	0.0929	93	85-115	
Barium	mg/L	1.600	1.66	104	85-115	
Beryllium	mg/L	0.2000	0.173	87	85-115	
Cadmium	mg/L	0.05000	0.0473	95	85-115	
Cobalt	mg/L	1.600	1.43	89	85-115	
Chromium	mg/L	0.05000	0.0458	92	85-115	
Molybdenum	mg/L	1.600	1.55	97	85-115	
Lead	mg/L	0.1000	0.0926	93	85-115	
Antimony	mg/L	0.1000	0.107	107	85-115	
Selenium	mg/L	0.1000	0.0914	91	85-115	
Thallium	mg/L	0.1000	0.0921	92	85-115	
Vanadium	mg/L	1.600	1.50	94	85-115	

MATRIX SPIKE: T182350-MS1 Original: **26D1138-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.000960	0.1000	0.0991	98	70-130	
Barium	mg/L	0.347	1.600	2.05	107	70-130	
Beryllium	mg/L	0	0.2000	0.213	107	70-130	
Cadmium	mg/L	0	0.05000	0.0477	95	70-130	
Cobalt	mg/L	0.000864	1.600	1.60	100	70-130	
Chromium	mg/L	0.00367	0.05000	0.0586	110	70-130	
Molybdenum	mg/L	0.00136	1.600	1.74	109	70-130	
Lead	mg/L	0	0.1000	0.0901	90	70-130	
Antimony	mg/L	0	0.1000	0.109	109	70-130	
Selenium	mg/L	0	0.1000	0.0826	83	70-130	
Thallium	mg/L	0	0.1000	0.0907	91	70-130	
Vanadium	mg/L	0.00157	1.600	1.81	113	70-130	

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MATRIX SPIKE: T182350-MS2 Original: **26D1138-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.000936	0.1000	0.0985	98	70-130	
Barium	mg/L	0.109	1.600	1.79	105	70-130	
Beryllium	mg/L	0	0.2000	0.172	86	70-130	
Cadmium	mg/L	0	0.05000	0.0467	93	70-130	
Cobalt	mg/L	0	1.600	1.46	91	70-130	
Chromium	mg/L	0.00189	0.05000	0.0499	96	70-130	
Molybdenum	mg/L	0.00279	1.600	1.67	104	70-130	
Lead	mg/L	0	0.1000	0.0898	90	70-130	
Antimony	mg/L	0	0.1000	0.108	108	70-130	
Selenium	mg/L	0	0.1000	0.0884	88	70-130	
Thallium	mg/L	0	0.1000	0.0912	91	70-130	
Vanadium	mg/L	0	1.600	1.61	101	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182351
QC Batch Method: EPA 200.2
Analysis Description: Lead, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T182351-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	
Vanadium	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T182351-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Arsenic	mg/L	0.1000	0.0974	97	85-115	
Barium	mg/L	1.600	1.66	104	85-115	

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LABORATORY CONTROL SAMPLE: T182351-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Beryllium	mg/L	0.2000	0.174	87	85-115	
Cadmium	mg/L	0.05000	0.0463	93	85-115	
Cobalt	mg/L	1.600	1.43	90	85-115	
Chromium	mg/L	0.05000	0.0466	93	85-115	
Molybdenum	mg/L	1.600	1.55	97	85-115	
Lead	mg/L	0.1000	0.0942	94	85-115	
Antimony	mg/L	0.1000	0.106	106	85-115	
Selenium	mg/L	0.1000	0.0923	92	85-115	
Thallium	mg/L	0.1000	0.0943	94	85-115	
Vanadium	mg/L	1.600	1.50	94	85-115	

MATRIX SPIKE: T182351-MS1 Original: **26D1138-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.000812	0.1000	0.0996	99	70-130	
Barium	mg/L	1.36	1.600	3.13	111	70-130	
Beryllium	mg/L	0	0.2000	0.165	83	70-130	
Cadmium	mg/L	0	0.05000	0.0478	96	70-130	
Cobalt	mg/L	0.00341	1.600	1.49	93	70-130	
Chromium	mg/L	0.00110	0.05000	0.0500	98	70-130	
Molybdenum	mg/L	0.00513	1.600	1.72	107	70-130	
Lead	mg/L	0	0.1000	0.0919	92	70-130	
Antimony	mg/L	0	0.1000	0.113	113	70-130	
Selenium	mg/L	0.000402	0.1000	0.0903	90	70-130	
Thallium	mg/L	0	0.1000	0.0937	94	70-130	
Vanadium	mg/L	0.00392	1.600	1.63	102	70-130	

MATRIX SPIKE: T182351-MS2 Original: **26D1138-24**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0.000464	0.1000	0.102	102	70-130	
Barium	mg/L	0.291	1.600	2.07	111	70-130	
Beryllium	mg/L	0	0.2000	0.185	92	70-130	
Cadmium	mg/L	0	0.05000	0.0495	99	70-130	
Cobalt	mg/L	0	1.600	1.54	96	70-130	
Chromium	mg/L	0	0.05000	0.0499	100	70-130	
Molybdenum	mg/L	0	1.600	1.71	107	70-130	
Lead	mg/L	0	0.1000	0.0951	95	70-130	

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MATRIX SPIKE: T182351-MS2 Original: **26D1138-24**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Antimony	mg/L	0	0.1000	0.113	113	70-130	
Selenium	mg/L	0	0.1000	0.0901	90	70-130	
Thallium	mg/L	0	0.1000	0.0959	96	70-130	
Vanadium	mg/L	0	1.600	1.64	102	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182433
QC Batch Method: EPA 200.2

Analysis Description: Barium, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T182433-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Arsenic	mg/L	<0.00055	0.00055	
Barium	mg/L	<0.0025	0.0025	
Beryllium	mg/L	<0.00025	0.00025	
Cadmium	mg/L	<0.00025	0.00025	
Cobalt	mg/L	<0.00052	0.00052	
Chromium	mg/L	<0.00025	0.00025	
Molybdenum	mg/L	<0.0012	0.0012	
Lead	mg/L	<0.00055	0.00055	
Antimony	mg/L	<0.00025	0.00025	
Selenium	mg/L	<0.00050	0.00050	
Thallium	mg/L	<0.00038	0.00038	
Vanadium	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T182433-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Arsenic	mg/L	0.1000	0.0974	97	85-115	
Barium	mg/L	1.600	1.71	107	85-115	
Beryllium	mg/L	0.2000	0.184	92	85-115	
Cadmium	mg/L	0.05000	0.0480	96	85-115	
Cobalt	mg/L	1.600	1.51	94	85-115	
Chromium	mg/L	0.05000	0.0487	97	85-115	
Molybdenum	mg/L	1.600	1.60	100	85-115	
Lead	mg/L	0.1000	0.0971	97	85-115	
Antimony	mg/L	0.1000	0.109	109	85-115	
Selenium	mg/L	0.1000	0.0966	97	85-115	

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LABORATORY CONTROL SAMPLE: T182433-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Thallium	mg/L	0.1000	0.0960	96	85-115	
Vanadium	mg/L	1.600	1.60	100	85-115	

MATRIX SPIKE: T182433-MS1 Original: **26D1138-07**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Arsenic	mg/L	0	0.1000	0.101	101	70-130	
Barium	mg/L	0.567	1.600	2.15	99	70-130	
Beryllium	mg/L	0	0.2000	0.190	95	70-130	
Cadmium	mg/L	0	0.05000	0.0445	89	70-130	
Cobalt	mg/L	0.00309	1.600	1.52	95	70-130	
Chromium	mg/L	0	0.05000	0.0483	97	70-130	
Molybdenum	mg/L	0	1.600	1.67	104	70-130	
Lead	mg/L	0.00210	0.1000	0.0917	90	70-130	
Antimony	mg/L	0	0.1000	0.0991	99	70-130	
Selenium	mg/L	0.00200	0.1000	0.0974	97	70-130	
Thallium	mg/L	0	0.1000	0.0927	93	70-130	
Vanadium	mg/L	0	1.600	1.61	101	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182008
QC Batch Method: IC Prep W
Analysis Description: Chloride
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T182008-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T182008-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	**mg/L**	**5.000**	**<10**	**100**	**90-110**	**J**
Fluoride	mg/L	1.000	1.00	100	90-110	
Sulfate as SO4	mg/L	5.000	5.08	102	90-110	

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MATRIX SPIKE: T182008-MS1 Original: **26D1138-03**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	89.4	50.00	141	102	80-120	
Fluoride	mg/L	1.26	10.00	11.4	101	80-120	
Sulfate as SO4	mg/L	99.5	50.00	150	102	80-120	

MATRIX SPIKE: T182008-MS2 Original: **26D1138-04**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	9.03	50.00	56.2	94	80-120	
Fluoride	mg/L	0.288	10.00	9.78	95	80-120	
Sulfate as SO4	mg/L	24.8	50.00	72.0	94	80-120	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182136
QC Batch Method: IC Prep W
Analysis Description: Sulfate
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T182136-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T182136-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	**mg/L**	**5.000**	**<10**	**101**	**90-110**	**J**
Fluoride	mg/L	1.000	1.01	101	90-110	
Sulfate as SO4	mg/L	5.000	5.14	103	90-110	

MATRIX SPIKE: T182136-MS1 Original: **26D1138-22**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	46.4	50.00	99.6	106	80-120	
Fluoride	mg/L	1.63	10.00	11.2	96	80-120	
Sulfate as SO4	mg/L	7.19	50.00	57.1	100	80-120	

MATRIX SPIKE: T182136-MS2 Original: **26D1138-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes

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MATRIX SPIKE: T182136-MS2 Original: **26D1138-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	24.5	50.00	74.4	100	80-120	
Fluoride	mg/L	1.28	10.00	10.7	94	80-120	
Sulfate as SO4	mg/L	99.5	50.00	150	102	80-120	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182137
QC Batch Method: IC Prep W
Analysis Description: Chloride
Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T182137-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Chloride	mg/L	<0.15	0.15	
Fluoride	mg/L	<0.020	0.020	
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T182137-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Chloride	**mg/L**	**5.000**	**<10**	**101**	**90-110**	**J**
Fluoride	mg/L	1.000	1.01	101	90-110	
Sulfate as SO4	mg/L	5.000	5.14	103	90-110	

MATRIX SPIKE: T182137-MS1 Original: **26D1138-42**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Chloride	mg/L	24.7	50.00	74.8	100	80-120	
Fluoride	mg/L	0.695	10.00	10.2	95	80-120	
Sulfate as SO4	mg/L	25.3	50.00	74.8	99	80-120	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182398
QC Batch Method: SM 2320 B-21
Analysis Description: Alkalinity, Total
Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T182398-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	95.6	96	88-112	

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LABORATORY CONTROL SAMPLE: T182398-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100.0	95.6	96	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	95.6	96	88-112	

LABORATORY CONTROL SAMPLE: T182398-BS2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	97.1	97	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100.0	97.1	97	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	97.1	97	88-112	

LABORATORY CONTROL SAMPLE: T182398-BS3

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	96.0	96	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100.0	96.0	96	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	96.0	96	88-112	

LABORATORY CONTROL SAMPLE: T182398-BS4

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	96.4	96	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100.0	96.4	96	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	96.4	96	88-112	

SAMPLE DUPLICATE: T182398-DUP1 Original: **26D1138-01**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	1330	1370	3	20	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	0	<10		20	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	1330	1370	3	20	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

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QC Batch: T182405
QC Batch Method: SM 2320 B-21

Analysis Description: Alkalinity, Bicarbonate
Analysis Method: SM 2320 B-21

LABORATORY CONTROL SAMPLE: T182405-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	95.6	96	88-112	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	100.0	95.6	96	88-112	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	100.0	95.6	96	88-112	

SAMPLE DUPLICATE: T182405-DUP1 Original: **26D1138-23**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Bicarbonate Alkalinity as CaCO3 at pH 4.5	mg/L	984	975	0.9	20	
Carbonate Alkalinity as CaCO3 at pH 8.2	mg/L	0	<5.0		20	
Total Alkalinity as CaCO3 at pH 4.5	mg/L	984	975	0.9	20	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182004
QC Batch Method: SM 2540 C-20

Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

METHOD BLANK: T182004-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	<10	10	

LABORATORY CONTROL SAMPLE: T182004-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500.0	472	94	80-120	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182030
QC Batch Method: SM 2540 C-20

Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

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METHOD BLANK: T182030-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	<10	10	

LABORATORY CONTROL SAMPLE: T182030-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500.0	457	91	80-120	

SAMPLE DUPLICATE: T182030-DUP1 Original: **26D1138-07**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	1780	1730	3	10	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182095
QC Batch Method: SM 2540 C-20
Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

METHOD BLANK: T182095-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	<10	10	

LABORATORY CONTROL SAMPLE: T182095-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500.0	457	91	80-120	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182225
QC Batch Method: SM 2540 C-20
Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

METHOD BLANK: T182225-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	<10	10	

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LABORATORY CONTROL SAMPLE: T182225-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500.0	474	95	80-120	

SAMPLE DUPLICATE: T182225-DUP1 Original: **26D1138-20**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	1640	1700	4	10	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182233
QC Batch Method: SM 2540 C-20
Analysis Description: Total Dissolved Solids
Analysis Method: SM 2540 C-20

METHOD BLANK: T182233-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	<18	18	

LABORATORY CONTROL SAMPLE: T182233-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500.0	465	93	80-120	

SAMPLE DUPLICATE: T182233-DUP1 Original: **26D1138-41**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	808	820	1	10	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182063
QC Batch Method: SM 2540 D-20
Analysis Description: Total Suspended Solids
Analysis Method: SM 2540 D-20

METHOD BLANK: T182063-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

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Muskegon, MI 49444-2673

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LABORATORY CONTROL SAMPLE: T182063-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100.0	89.7	90	85-115	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182133
QC Batch Method: SM 2540 D-20
Analysis Description: Total Suspended Solids
Analysis Method: SM 2540 D-20

METHOD BLANK: T182133-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

LABORATORY CONTROL SAMPLE: T182133-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100.0	90.0	90	85-115	

SAMPLE DUPLICATE: T182133-DUP1 Original: **26D1138-22**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Suspended Solids	mg/L	63.0	66.0	5	20	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182135
QC Batch Method: SM 2540 D-20
Analysis Description: Total Suspended Solids
Analysis Method: SM 2540 D-20

METHOD BLANK: T182135-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<4.0	4.0	

LABORATORY CONTROL SAMPLE: T182135-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	100.0	110	110	85-115	

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SAMPLE DUPLICATE: T182135-DUP1 Original: **26D1138-42**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Suspended Solids	mg/L	13.0	14.0	7	20	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182067
QC Batch Method: *** DEFAULT PREP ***
Analysis Description: pH, SM 4500
Analysis Method: SM 4500-H+ B-11

SAMPLE DUPLICATE: T182067-DUP1 Original: **26D1138-01**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	**pH Units**	**7.63**	**7.63**	**0**	**20**	**PH01y**

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182199
QC Batch Method: *** DEFAULT PREP ***
Analysis Description: pH, SM 4500
Analysis Method: SM 4500-H+ B-11

SAMPLE DUPLICATE: T182199-DUP1 Original: **26D1138-20**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	**pH Units**	**6.99**	**6.98**	**0.1**	**20**	**H04, PH01a**

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182202
QC Batch Method: *** DEFAULT PREP ***
Analysis Description: pH, SM 4500
Analysis Method: SM 4500-H+ B-11

SAMPLE DUPLICATE: T182202-DUP1 Original: **26D1138-41**

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
pH	**pH Units**	**7.89**	**7.90**	**0.1**	**20**	**PH01v**

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
LOQ	Limit of Quantitation
LOD	Limit of Detection
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

Definitions and Notes

Trace ID: 26D1138-01

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01y : The pH was analyzed at 11:35

Trace ID: 26D1138-02

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01z : The pH was analyzed at 11:37

Trace ID: 26D1138-03

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01aa : The pH was analyzed at 11:38

Trace ID: 26D1138-04

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.

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pH	Note PH01ab : The pH was analyzed at 11:43

Trace ID: 26D1138-05

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01ac : The pH was analyzed at 11:44

Trace ID: 26D1138-07

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01ad : The pH was analyzed at 11:46

Trace ID: 26D1138-08

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01ad : The pH was analyzed at 11:46

Trace ID: 26D1138-09

Analysis: SM 4500-H+ B-11

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01ae : The pH was analyzed at 11:47

Trace ID: 26D1138-10

Analysis: SM 4500-H+ B-11

pH	Note PH01af : The pH was analyzed at 11:48

Trace ID: 26D1138-11

Analysis: SM 4500-H+ B-11

pH	Note PH01ag : The pH was analyzed at 11:49

Trace ID: 26D1138-12

Analysis: SM 4500-H+ B-11

pH	Note PH01ah : The pH was analyzed at 11:51

Trace ID: 26D1138-14

Analysis: SM 4500-H+ B-11

pH	Note PH01ai : The pH was analyzed at 11:52

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Trace ID: 26D1138-15

Analysis: SM 4500-H+ B-11

pH	Note PH01aj : The pH was analyzed at 11:53

Trace ID: 26D1138-16

Analysis: SM 4500-H+ B-11

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01ak : The pH was analyzed at 11:54

Trace ID: 26D1138-17

Analysis: SM 4500-H+ B-11

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01ak : The pH was analyzed at 11:54

Trace ID: 26D1138-18

Analysis: SM 4500-H+ B-11

pH	Note PH01al : The pH was analyzed at 11:55

Trace ID: 26D1138-19

Analysis: SM 4500-H+ B-11

pH	Note PH01am : The pH was analyzed at 11:56

Trace ID: 26D1138-20

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01 : The pH was analyzed at 10:48

Trace ID: 26D1138-21

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01b : The pH was analyzed at 10:50

Trace ID: 26D1138-22

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01c : The pH was analyzed at 10:51

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Trace ID: 26D1138-23

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01d : The pH was analyzed at 10:52

Trace ID: 26D1138-24

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01e : The pH was analyzed at 10:53

Trace ID: 26D1138-25

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01f : The pH was analyzed at 10:54

Trace ID: 26D1138-26

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01g : The pH was analyzed at 10:55

Trace ID: 26D1138-27

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01h : The pH was analyzed at 10:56

Trace ID: 26D1138-28

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01i : The pH was analyzed at 10:57

Trace ID: 26D1138-29

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01j : The pH was analyzed at 10:58

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Trace ID: 26D1138-30

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01k : The pH was analyzed at 10:59

Trace ID: 26D1138-31

Analysis: SM 4500-H+ B-11

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01l : The pH was analyzed at 11:00

Trace ID: 26D1138-33

Analysis: SM 4500-H+ B-11

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01m : The pH was analyzed at 11:01

Trace ID: 26D1138-34

Analysis: SM 4500-H+ B-11

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01n : The pH was analyzed at 11:02

Trace ID: 26D1138-35

Analysis: SM 4500-H+ B-11

pH	Note PH01o : The pH was analyzed at 11:03

Trace ID: 26D1138-36

Analysis: SM 4500-H+ B-11

pH	Note PH01p : The pH was analyzed at 11:04

Trace ID: 26D1138-37

Analysis: SM 4500-H+ B-11

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.
pH	Note PH01q : The pH was analyzed at 11:05

Trace ID: 26D1138-38

Analysis: SM 4500-H+ B-11

pH	Note H02 : The analysis was performed beyond the analyte EPA established hold time.

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pH	Note PH01r : The pH was analyzed at 11:06

Trace ID: 26D1138-39

Analysis: SM 4500-H+ B-11

pH	Note PH01s : The pH was analyzed at 11:07

Trace ID: 26D1138-40

Analysis: SM 4500-H+ B-11

pH	Note PH01t : The pH was analyzed at 11:08

Trace ID: 26D1138-41

Analysis: SM 4500-H+ B-11

pH	Note PH01u : The pH was analyzed at 11:10

Trace ID: 26D1138-42

Analysis: SM 4500-H+ B-11

pH	Note PH01w : The pH was analyzed at 11:12

Trace ID: 26D1138-43

Analysis: SM 4500-H+ B-11

pH	Note PH01x : The pH was analyzed at 11:13

Trace ID: T182067-DUP1

Analysis: SM 4500-H+ B-11

pH	Note PH01y : The pH was analyzed at 11:35

Trace ID: T182199-DUP1

Analysis: SM 4500-H+ B-11

pH	Note H04 : The sample was received and, therefore, analyzed beyond the established EPA hold time.
pH	Note PH01a : The pH was analyzed at 10:49

Trace ID: T182202-DUP1

Analysis: SM 4500-H+ B-11

pH	Note PH01v : The pH was analyzed at 11:11

Trace ID: T182350-MS1

Analysis: EPA 200.7 Rev. 4.4

Calcium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

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Magnesium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Trace ID: T182350-MS2

Analysis: EPA 200.7 Rev. 4.4

Calcium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Trace ID: T182351-MS1

Analysis: EPA 200.7 Rev. 4.4

Calcium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Trace ID: T182351-MS2

Analysis: EPA 200.7 Rev. 4.4

Calcium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

Trace ID: T182433-MS1

Analysis: EPA 200.7 Rev. 4.4

Calcium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.
Potassium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.
Sodium	Note MS09 : The MS recovery was out of control. Because the background concentration of this analyte is greater than 4X the spike amount, no data require qualification.

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CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Trace ID No. 26D1138

Report Results To:

Company Name:	HDR Michigan
Report To:	Molly Reeves/Andrew Byks
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone: 5869965429
Email Address:	molly.reeves@hdrinc.com; andrew.byks@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	NE
Checked By:	AEO

Soil Volatiles Preserved (circle if applicable): MeOH / Low Level / Lab

Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*
- ** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Part 257 Appendix IV	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Remarks/Notes	Possible Health Hazards?
1	4/20/2026	1232	MW-03	N	GW	4	4		2							X	X	X	X	X		
2	4/20/2026	1404	MW-04	N	GW	4	4		2							X	X	X	X	X		
3	4/20/2026	1508	MW-04R	N	GW	4	4		2							X	X	X	X	X		
4	4/20/2026	1620	MW-12	N	GW	4	4		2							X	X	X	X	X		
5	4/20/2026	1620	MWT-12	N	GW	4	4		2							X	X	X	X	X		
6	4/20/2026	1715	LLHGTB-04202026		--	1	1											X				
7	4/21/2026	0842	MW-38	N	GW	4	4		2							X	X	X	X	X		
8	4/21/2026	0954	MW-37	N	GW	4	4		2							X	X	X	X	X		
9	4/21/2026	1146	MW-36	N	GW	4	4		2							X	X	X	X	X		
10	4/21/2026	1318	MW-13	N	GW	4	4		2							X	X	X	X	X		

Analysis Requested

Please Sign	Relinquished By	Received By	Date	Time
1)	Andrew Byks	1) Greg	4/22/26	802
2)		2)		
3)		3)		
4)		4)		

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Phone 231.773.5998
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Trace ID No. 26D1138

Report Results To:

Company Name: HDR Michigan	
Report To: Molly Reeves/Andrew Byks	
Mailing Address: 1000 Oakbrook Drive, Suite 200	
City, State, Zip Code: Ann Arbor MI 48104	
Office Phone:	Cell Phone: 5869965429
Email Address: molly.reeves@hdrinc.com; andrew.byks@hdrinc.com	

Bill To:

PO #: 10037505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By: NE

Checked By: AEO

Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab

Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Part 257 Appendix IV	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Remarks/Notes	Possible Health Hazards?
11	4/21/2026	1440	MW-17	N	GW	4	4		2							X	X	X	X	X		
12	4/21/2026	1600	MW-07	N	GW	4	4		2							X	X	X	X	X		
13	4/21/2026	1715	LLHGTB-042126	N	–	1	1											X				
14	4/21/2026	1520	MW-08	N	GW	4	4		2							X	X	X	X	X		
15	4/21/2026	1600	MWT-08	N	GW	4	4		2							X	X	X	X	X		
16	4/21/2026	1100	MW-30	N	GW	4	4		2							X	X	X	X	X		
17	4/21/2026	0900	MW-31	N	GW	4	4		2							X	X	X	X	X		
18	4/21/2026	1210	MW-32	N	GW	4	4		2							X	X	X	X	X		
19	4/21/2026	1400	MW-42	N	GW	4	4		2							X	X	X	X	X		

Please Sign

	Released By	Received By	Date	Time
1)	Ann J Byk	Jmo	4/22/26	802
2)				
3)				
4)				

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

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CHAIN-OF-CUSTODY RECORD

Page 1 of 3

Trace ID No. 26D1138

Report Results To:

Company Name: HDR Michigan			
Report To: Molly Reeves/Andrew Byks			
Mailing Address: 1000 Oakbrook Drive, Suite 200			
City, State, Zip Code: Ann Arbor MI 48104			
Office Phone:	Cell Phone: 5869965429		
Email Address: molly.reeves@hdrinc.com; andrew.byks@hdrinc.com			

Bill To:

PO #: 10337505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By: NE	
Checked By: CN	
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

**Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

| Project Name: Grand Haven Harbor Island | | |

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Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 26D1138

Report Results To:

Company Name:	HDR Michigan
Report To:	Molly Reeves/Andrew Byks
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone: 5869965429
Email Address:	molly.reeves@hdrinc.com; andrew.byks@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	NC
Checked By:	CN
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater
DW = Drinking Water
GW = Groundwater
LW = Liquid Waste
O = Oil
WI = Wipes
S = Solid
SL = Sludge
A = Air
U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Part 257 Appendix IV+	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Possible Health Hazards?	Remarks/Notes
30	4/22/2026	1500	MW-34	N	GW	4	4		2							X	X	X	X	X		
31	4/22/2026	1630	MW-18	N	GW	4	4		2							X	X	X	X	X		
32	4/22/2026	1715	LLHGTB-04222026	N	--	1	1											X				
33	4/23/2026	908	MW-10	N	GW	4	4		2							X	X	X	X	X		
34	4/23/2026	908	MWT-10	N	GW	4	4		2							X	X	X	X	X		
35	4/23/2026	1140	MW-19	N	GW	4	4		2							X	X	X	X	X		
36	4/23/2026	1258	MW-28	N	GW	4	4		2							X	X	X	X	X		
37	4/23/2026	0915	MW-39	N	GW	4	4		2							X	X	X	X	X		
38	4/23/2026	1030	MW-16	N	GW	4	4		2							X	X	X	X	X		
39	4/23/2026	1145	MW-33	N	GW	4	4		2							X	X	X	X	X		

Please Sign

	Released By	Date	Time	Received By
1)				
2)		4/23/26	15:00	
3)				
4)				

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

Form 70-Z.2

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TRACE
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231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 26D1138

Report Results To:

Company Name: HDR Michigan	
Report To: Molly Reeves/Andrew Byks	
Mailing Address: 1000 Oakbrook Drive, Suite 200	
City, State, Zip Code: Ann Arbor MI 48104	Cell Phone: 5869965429
Office Phone:	
Email Address: molly.reeves@hdrinc.com; andrew.byks@hdrinc.com	

Bill To:

PO #: 10337505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By: NP	
Checked By: CM	
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Part 257 Appendix IV+	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Remarks/Notes	Possible Health Hazards?
40	4/23/2026	1350	SG-02	N	SW	4	4		2							X	X	X	X	X		
41	4/23/2026	1330	SG-04R	N	SW	4	4		2							X	X	X	X	X		
42	4/23/2026	1315	SG-05	N	SW	4	4		2							X	X	X	X	X		
43	4/23/2026	1400	SG-07	N	SW	4	4		2							X	X	X	X	X		
44	4/23/2026	1410	LLHGTB-04232026	-	-	1	1											X				

Please Sign	Released By	Date	Time	Received By
1)				
2)		4/23/26	15:00	
3)				
4)				

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

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231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

26D1138
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 8:35										
Initials: CN										
Package Description: Cooler										
Package Temp °C	5.6	5.0				X				
Representative Sample Temp °C	8.1	7.3				X				X

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

HDR-GHH1-MW-07, 8 / LLHGTB-04212026, 04202026, MW-07, 8

Form 70-A.63
Effective 4/20/26

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26D1138
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 9:12										
Initials: CN										
Package Description: Cooler										
Package Temp °C	4.6	4.0				X				
Representative Sample Temp °C	13.3	12.7				X				X

Sample Receipt

Yes	No		
X		Received on ice or other coolant	
X		Ice still present upon receipt	
	X	Custody seals present	☐ Yes ☐ No Custody seals intact (if applicable)
☐ Trace Courier	X Client Drop-off	☐ UPS	☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes	No	N/A	
X			All sample containers arrived unbroken and labeled
X			Sufficient sample to run requested analyses
X			Correct chemical preservative added to samples
		X	Samples preserved at Trace (if yes, fill in preservation information below)
			Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
X			Chemical preservation verified, check EMD pH test strip used (if applicable)
			X pH 0-2.5 (Lot: HC461264) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
		X	Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes	No	
X		All bottle labels agree with COC
X		COC filled out properly
X		COC signed by client

Notes:

MW-13, MW-17, MW-36, MW-38

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26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 9:39										
Initials: CN										
Package Description: Cooler										
Package Temp °C	4.6	4.7		x						
Representative Sample Temp °C	4.1	4.2		x						X

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-03, MW-04, MW-04R, MW-12

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26D1138
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 8:59										
Initials: CN										
Package Description: Cooler										
Package Temp °C	3.0	3.1		x						
Representative Sample Temp °C	6.1	6.2		x						x

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-08, MW-30, MW-31, MW-32, MW-42

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26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 633										
Initials: SAB										
Package Description: Cool										
Package Temp °C	5.0	4.4				✓				
Representative Sample Temp °C	5.1	4.9						✓	✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-41, 43, 20, 34, SM7000RaB (226) & SM7500 Rad (228)

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(2)

26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 648										
Initials: SAD										
Package Description: Cooler										
Package Temp °C	0.0	-0.6				✓				
Representative Sample Temp °C	7.4	7.2						✓	✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-02, 09, 11, 06, 01RB

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26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

(3)

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 653										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	-0.4	0.0	✓							
Representative Sample Temp °C	2.0	1.7					✓		✓	

Sample Receipt

Yes	No					
✓	☐	Received on ice or other coolant				
✓	☐	Ice still present upon receipt				
☐	✓	Custody seals present	☐ Yes	☐ No	Custody seals intact (if applicable)	
☐ Trace Courier	✓ Client Drop-off	☐ UPS	☐ Fed Ex	☐ US Mail	☐ Other	

Sample Condition

Yes	No	N/A	
✓	☐	☐	All sample containers arrived unbroken and labeled
✓	☐	☐	Sufficient sample to run requested analyses
✓	☐	☐	Correct chemical preservative added to samples
☐	✓	☐	Samples preserved at Trace (if yes, fill in preservation information below)
			Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
✓	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)
			✓ pH 0-2.5 (Lot: HC461264) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐	☐	✓	Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes	No	
✓	☐	All bottle labels agree with COC
✓	☐	COC filled out properly
✓	☐	COC signed by client

Notes:

MW-39, 16, 18, 33

Form 70-A.63
Effective 4/20/26

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26D1138
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 658										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	0.2	0.6	✓							
Representative Sample Temp °C	1.8	1.5					✓		✓	

Sample Receipt

Yes No
- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A
- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No
- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

SG-02, SG-04R, SG-05, SG-07

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26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

(5)

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 713										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	7.9	8.3	✓							
Representative Sample Temp °C	5.7	5.4					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-28, 19, 01R, 10

Form 70-A.63
Effective 4/20/26

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www.trace-labs.com

May 12, 2026

Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 26D1138
Client Project City of Grand Haven - Harbor Island

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink
Senior Project Manager
Enclosures

Wisconsin Accreditation No. FID: 998044080 / TNI EL V1:2016

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SAMPLE SUMMARY

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
26D1138-01	MW-03	Ground Water	AB/FDR	04/20/26 12:32	04/22/26 08:02
26D1138-02	MW-04	Ground Water	AB/FDR	04/20/26 14:04	04/22/26 08:02
26D1138-03	MW-04R	Ground Water	AB/FDR	04/20/26 15:08	04/22/26 08:02
26D1138-04	MW-12	Ground Water	AB/FDR	04/20/26 16:20	04/22/26 08:02
26D1138-05	MWT-12	Ground Water	AB/FDR	04/20/26 16:20	04/22/26 08:02
26D1138-07	MW-38	Ground Water	AB/FDR	04/21/26 08:42	04/22/26 08:02
26D1138-08	MW-37	Ground Water	AB/FDR	04/21/26 09:54	04/22/26 08:02
26D1138-09	MW-36	Ground Water	AB/FDR	04/21/26 11:46	04/22/26 08:02
26D1138-10	MW-13	Ground Water	AB/FDR	04/21/26 13:18	04/22/26 08:02
26D1138-11	MW-17	Ground Water	AB/FDR	04/21/26 14:40	04/22/26 08:02
26D1138-12	MW-07	Ground Water	AB/FDR	04/21/26 16:00	04/22/26 08:02
26D1138-14	MW-08	Ground Water	AB/FDR	04/21/26 15:20	04/22/26 08:02
26D1138-15	MWT-08	Ground Water	AB/FDR	04/21/26 16:00	04/22/26 08:02
26D1138-16	MW-30	Ground Water	AB/FDR	04/21/26 11:00	04/22/26 08:02
26D1138-17	MW-31	Ground Water	AB/FDR	04/21/26 09:00	04/22/26 08:02
26D1138-18	MW-32	Ground Water	AB/FDR	04/21/26 12:10	04/22/26 08:02
26D1138-19	MW-42	Ground Water	AB/FDR	04/21/26 14:00	04/22/26 08:02
26D1138-20	MW-02	Ground Water	AB/FDR	04/22/26 09:44	04/23/26 15:00
26D1138-21	MW-09	Ground Water	AB/FDR	04/22/26 11:30	04/23/26 15:00
26D1138-22	MW-11	Ground Water	AB/FDR	04/22/26 13:20	04/23/26 15:00
26D1138-23	MW-06	Ground Water	AB/FDR	04/22/26 14:22	04/23/26 15:00
26D1138-24	MW-01RB	Ground Water	AB/FDR	04/22/26 15:30	04/23/26 15:00
26D1138-25	MW-01R	Ground Water	AB/FDR	04/22/26 16:32	04/23/26 15:00
26D1138-26	MW-41	Ground Water	AB/FDR	04/22/26 08:45	04/23/26 15:00
26D1138-27	MW-20	Ground Water	AB/FDR	04/22/26 10:20	04/23/26 15:00
26D1138-28	MW-43	Ground Water	AB/FDR	04/22/26 11:45	04/23/26 15:00
26D1138-29	MW-27	Ground Water	AB/FDR	04/22/26 13:30	04/23/26 15:00
26D1138-30	MW-34	Ground Water	AB/FDR	04/22/26 15:00	04/23/26 15:00
26D1138-31	MW-18	Ground Water	AB/FDR	04/22/26 16:30	04/23/26 15:00
26D1138-33	MW-10	Ground Water	AB/FDR	04/23/26 09:08	04/23/26 15:00
26D1138-34	MWT-10	Ground Water	AB/FDR	04/23/26 09:08	04/23/26 15:00
26D1138-35	MW-19	Ground Water	AB/FDR	04/23/26 11:40	04/23/26 15:00
26D1138-36	MW-28	Ground Water	AB/FDR	04/23/26 12:58	04/23/26 15:00
26D1138-37	MW-39	Ground Water	AB/FDR	04/23/26 09:16	04/23/26 15:00
26D1138-38	MW-16	Ground Water	AB/FDR	04/23/26 10:30	04/23/26 15:00

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26D1138-39	MW-33	Ground Water	AB/FDR	04/23/26 11:45	04/23/26 15:00
26D1138-40	SG-02	Surface Water	AB/FDR	04/23/26 13:50	04/23/26 15:00
26D1138-41	SG-04R	Surface Water	AB/FDR	04/23/26 13:30	04/23/26 15:00
26D1138-42	SG-05	Surface Water	AB/FDR	04/23/26 13:15	04/23/26 15:00
26D1138-43	SG-07	Surface Water	AB/FDR	04/23/26 14:00	04/23/26 15:00

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-01 Date Collected: 04/20/26 12:32 Matrix: Ground Water
Sample ID: MW-03 Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**0.98**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.00056**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0016**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.025**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-02 | Date Collected: 04/20/26 14:04 | Matrix: Ground Water
Sample ID: MW-04 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**5.0**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.00028**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0075**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.013**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-03 | Date Collected: 04/20/26 15:08 | Matrix: Ground Water
Sample ID: MW-04R | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**2.2**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Nickel	**0.0029**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.020**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-04 | Date Collected: 04/20/26 16:20 | Matrix: Ground Water
Sample ID: MW-12 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**0.059**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0031**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0010**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.015**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-05 | Date Collected: 04/20/26 16:20 | Matrix: Ground Water
Sample ID: MWT-12 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**0.053**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0031**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.00092**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.015**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-07 | Date Collected: 04/21/26 08:42 | Matrix: Ground Water
Sample ID: MW-38 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182433										
Iron	**0.032**	**mg/L**	**0.050**	**1**	**05/01/26**	**ejb**	**05/06/26**	**cma**	**J**	**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182433										
Copper	**0.031**	**mg/L**	**0.0012**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**		**0.0010**
Nickel	**0.027**	**mg/L**	**0.0062**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**		**0.00075**
Silver	<0.00025	mg/L	0.00025	5	05/01/26	ejb	05/07/26	jma		0.00025
Zinc	**0.045**	**mg/L**	**0.0062**	**5**	**05/01/26**	**ejb**	**05/07/26**	**jma**		**0.0024**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-08 | Date Collected: 04/21/26 09:54 | Matrix: Ground Water
Sample ID: MW-37 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**0.029**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**	**J**	**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0060**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0017**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.028**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-09 | Date Collected: 04/21/26 11:46 | Matrix: Ground Water
Sample ID: MW-36 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**0.95**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0018**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0056**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.023**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-10 | Date Collected: 04/21/26 13:18 | Matrix: Ground Water
Sample ID: MW-13 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**0.56**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.00025**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0027**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.013**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-11 | Date Collected: 04/21/26 14:40 | Matrix: Ground Water
Sample ID: MW-17 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**4.4**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0021**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.00079**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.048**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-12 | Date Collected: 04/21/26 16:00 | Matrix: Ground Water
Sample ID: MW-07 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**21**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.00025**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.00017**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.027**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-14 | Date Collected: 04/21/26 15:20 | Matrix: Ground Water
Sample ID: MW-08 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**7.5**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.00037**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0044**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.046**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-15 | Date Collected: 04/21/26 16:00 | Matrix: Ground Water
Sample ID: MWT-08 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**7.1**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.00040**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0032**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.051**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-16 | Date Collected: 04/21/26 11:00 | Matrix: Ground Water
Sample ID: MW-30 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**4.2**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Nickel	**0.0014**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.0098**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-17 | Date Collected: 04/21/26 09:00 | Matrix: Ground Water
Sample ID: MW-31 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**4.2**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.00035**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.011**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.027**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-18 | Date Collected: 04/21/26 12:10 | Matrix: Ground Water
Sample ID: MW-32 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**22**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.00032**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.011**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.059**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-19 | Date Collected: 04/21/26 14:00 | Matrix: Ground Water
Sample ID: MW-42 | Date Received: 04/22/26 08:02

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**9.0**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0057**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.41**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.54**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-20 | Date Collected: 04/22/26 09:44 | Matrix: Ground Water
Sample ID: MW-02 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**28**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0013**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.021**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.034**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-21 | Date Collected: 04/22/26 11:30 | Matrix: Ground Water
Sample ID: MW-09 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**17**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0018**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.027**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.017**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-22 | Date Collected: 04/22/26 13:20 | Matrix: Ground Water
Sample ID: MW-11 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182350										
Iron	**18**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182350										
Copper	**0.0028**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0029**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.085**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-23 | Date Collected: 04/22/26 14:22 | Matrix: Ground Water
Sample ID: MW-06 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**9.7**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0033**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0038**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	**0.00016**	**mg/L**	**0.000050**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.000050**
Zinc	**0.080**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-24 | Date Collected: 04/22/26 15:30 | Matrix: Ground Water
Sample ID: MW-01RB | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**10**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Nickel	**0.00022**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.024**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-25 | Date Collected: 04/22/26 16:32 | Matrix: Ground Water
Sample ID: MW-01R | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**1.1**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0028**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.068**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.14**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-26 | Date Collected: 04/22/26 08:45 | Matrix: Ground Water
Sample ID: MW-41 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**0.87**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0061**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0039**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.018**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-27 | Date Collected: 04/22/26 10:20 | Matrix: Ground Water
Sample ID: MW-20 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**12**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.00058**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0095**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.040**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-28 Date Collected: 04/22/26 11:45 Matrix: Ground Water
Sample ID: MW-43 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**0.17**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0027**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.19**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.14**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-29 | Date Collected: 04/22/26 13:30 | Matrix: Ground Water
Sample ID: MW-27 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**2.1**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0014**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.00052**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.011**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-30 Date Collected: 04/22/26 15:00 Matrix: Ground Water
Sample ID: MW-34 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**50**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.00087**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.041**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.049**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-31 | Date Collected: 04/22/26 16:30 | Matrix: Ground Water
Sample ID: MW-18 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**1.8**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0041**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0085**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.14**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-33 | Date Collected: 04/23/26 09:08 | Matrix: Ground Water
Sample ID: MW-10 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**4.3**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Nickel	**0.00088**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.033**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-34 | Date Collected: 04/23/26 09:08 | Matrix: Ground Water
Sample ID: MWT-10 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**4.3**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Nickel	**0.00090**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.033**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-35 Date Collected: 04/23/26 11:40 Matrix: Ground Water
Sample ID: MW-19 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**8.3**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	<0.00020	mg/L	0.00025	1	04/30/26	ejb	05/05/26	jma		0.00020
Nickel	**0.0024**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.031**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-36 | Date Collected: 04/23/26 12:58 | Matrix: Ground Water
Sample ID: MW-28 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**9.9**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0041**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0052**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.12**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-37 | Date Collected: 04/23/26 09:16 | Matrix: Ground Water
Sample ID: MW-39 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**8.2**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0040**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.015**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.073**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-38 Date Collected: 04/23/26 10:30 Matrix: Ground Water
Sample ID: MW-16 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**12**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.00023**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**	**J**	**0.00020**
Nickel	**0.0012**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.029**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-39 Date Collected: 04/23/26 11:45 Matrix: Ground Water
Sample ID: MW-33 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**0.44**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.027**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.027**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.017**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-40 Date Collected: 04/23/26 13:50 Matrix: Surface Water
Sample ID: SG-02 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**0.13**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0016**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0024**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.014**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-41 | Date Collected: 04/23/26 13:30 | Matrix: Surface Water
Sample ID: SG-04R | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**0.087**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.00063**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0022**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.010**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-42 | Date Collected: 04/23/26 13:15 | Matrix: Surface Water
Sample ID: SG-05 | Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**4.6**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.00067**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0020**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.044**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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ANALYTICAL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

Trace ID: 26D1138-43 Date Collected: 04/23/26 14:00 Matrix: Surface Water
Sample ID: SG-07 Date Received: 04/23/26 15:00

PARAMETERS	RESULTS	UNITS	LOQ	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	LOD
METALS, TOTAL										
Analysis Method: EPA 200.7 Rev. 4.4										
Batch: T182351										
Iron	**0.53**	**mg/L**	**0.050**	**1**	**04/30/26**	**ejb**	**05/06/26**	**cma**		**0.0075**
Analysis Method: EPA 200.8 Rev. 5.4										
Batch: T182351										
Copper	**0.0023**	**mg/L**	**0.00025**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00020**
Nickel	**0.0016**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00015**
Silver	<0.000050	mg/L	0.000050	1	04/30/26	ejb	05/05/26	jma		0.000050
Zinc	**0.013**	**mg/L**	**0.0012**	**1**	**04/30/26**	**ejb**	**05/05/26**	**jma**		**0.00048**

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2241 Black Creek Road
Muskegon, MI 49444-2673

231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

QUALITY CONTROL RESULTS

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182350
QC Batch Method: EPA 200.2
Analysis Description: Iron, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T182350-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Iron	mg/L	<0.050	0.050	

LABORATORY CONTROL SAMPLE: T182350-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Iron	mg/L	16.00	15.1	95	85-115	

MATRIX SPIKE: T182350-MS1 Original: **26D1138-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	0.978	16.00	15.8	92	70-130	

MATRIX SPIKE: T182350-MS2 Original: **26D1138-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	5.03	16.00	19.7	92	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182351
QC Batch Method: EPA 200.2
Analysis Description: Iron, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T182351-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Iron	mg/L	<0.050	0.050	

LABORATORY CONTROL SAMPLE: T182351-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Iron	mg/L	16.00	15.4	96	85-115	

MATRIX SPIKE: T182351-MS1 Original: **26D1138-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes

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MATRIX SPIKE: T182351-MS1 Original: **26D1138-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	9.68	16.00	24.9	95	70-130	

MATRIX SPIKE: T182351-MS2 Original: **26D1138-24**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	10.1	16.00	25.6	96	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182433
QC Batch Method: EPA 200.2
Analysis Description: Iron, Total
Analysis Method: EPA 200.7 Rev. 4.4

METHOD BLANK: T182433-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Iron	mg/L	<0.050	0.050	

LABORATORY CONTROL SAMPLE: T182433-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Iron	mg/L	16.00	15.1	95	85-115	

MATRIX SPIKE: T182433-MS1 Original: **26D1138-07**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Iron	mg/L	0.0324	16.00	15.1	94	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182350
QC Batch Method: EPA 200.2
Analysis Description: Zinc, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T182350-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Copper	mg/L	<0.00025	0.00025	
Nickel	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

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LABORATORY CONTROL SAMPLE: T182350-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.05000	0.0484	97	85-115	
Copper	mg/L	1.600	1.38	86	85-115	
Nickel	mg/L	1.600	1.41	88	85-115	
Zinc	mg/L	1.600	1.43	90	85-115	

MATRIX SPIKE: T182350-MS1 Original: **26D1138-01**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0489	98	70-130	
Copper	mg/L	0	1.600	1.45	91	70-130	
Nickel	mg/L	0.00157	1.600	1.50	94	70-130	
Zinc	mg/L	0.0253	1.600	1.42	87	70-130	

MATRIX SPIKE: T182350-MS2 Original: **26D1138-02**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0472	94	70-130	
Copper	mg/L	0	1.600	1.36	85	70-130	
Nickel	mg/L	0.00745	1.600	1.41	88	70-130	
Zinc	mg/L	0.0131	1.600	1.34	83	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182351
QC Batch Method: EPA 200.2
Analysis Description: Zinc, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T182351-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Copper	mg/L	<0.00025	0.00025	
Nickel	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T182351-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.05000	0.0484	97	85-115	
Copper	mg/L	1.600	1.39	87	85-115	

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LABORATORY CONTROL SAMPLE: T182351-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Nickel	mg/L	1.600	1.42	89	85-115	
Zinc	mg/L	1.600	1.45	91	85-115	

MATRIX SPIKE: T182351-MS1 Original: **26D1138-23**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0487	97	70-130	
Copper	mg/L	0.00330	1.600	1.39	86	70-130	
Nickel	mg/L	0.00380	1.600	1.44	90	70-130	
Zinc	mg/L	0.0798	1.600	1.46	86	70-130	

MATRIX SPIKE: T182351-MS2 Original: **26D1138-24**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0502	100	70-130	
Copper	mg/L	0	1.600	1.44	90	70-130	
Nickel	mg/L	0	1.600	1.48	93	70-130	
Zinc	mg/L	0.0239	1.600	1.47	91	70-130	

Trace Project ID: 26D1138
Client Project ID: City of Grand Haven - Harbor Island

QC Batch: T182433
QC Batch Method: EPA 200.2
Analysis Description: Nickel, Total
Analysis Method: EPA 200.8 Rev. 5.4

METHOD BLANK: T182433-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Silver	mg/L	<0.000050	0.000050	
Copper	mg/L	<0.00025	0.00025	
Nickel	mg/L	<0.0012	0.0012	
Zinc	mg/L	<0.0012	0.0012	

LABORATORY CONTROL SAMPLE: T182433-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Silver	mg/L	0.05000	0.0503	101	85-115	
Copper	mg/L	1.600	1.44	90	85-115	
Nickel	mg/L	1.600	1.50	94	85-115	
Zinc	mg/L	1.600	1.50	94	85-115	

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MATRIX SPIKE: T182433-MS1 Original: **26D1138-07**

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Unit	Notes
Silver	mg/L	0	0.05000	0.0480	96	70-130	
Copper	mg/L	0.0307	1.600	1.53	94	70-130	
Nickel	mg/L	0.0270	1.600	1.54	95	70-130	
Zinc	mg/L	0.0450	1.600	1.51	92	70-130	

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
LOQ	Limit of Quantitation
LOD	Limit of Detection
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

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CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Trace ID No. 26D1138

Report Results To:

Company Name: HDR Michigan	
Report To: Molly Reeves/Andrew Byks	
Mailing Address: 1000 Oakbrook Drive, Suite 200	
City, State, Zip Code: Ann Arbor MI 48104	
Office Phone:	Cell Phone: 5869965429
Email Address: molly.reeves@hdrinc.com; andrew.byks@hdrinc.com	

Bill To:

PO #: 10337505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By: NE	
Checked By: AEO	
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Part 257 Appendix IV	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Possible Health Hazards?	Remarks/Notes
1	4/20/2026	1232	MW-03	N	GW	4	4		2							X	X	X	X	X		
2	4/20/2026	1404	MW-04	N	GW	4	4		2							X	X	X	X	X		
3	4/20/2026	1508	MW-04R	N	GW	4	4		2							X	X	X	X	X		
4	4/20/2026	1620	MW-12	N	GW	4	4		2							X	X	X	X	X		
5	4/20/2026	1620	MWT-12	N	GW	4	4		2							X	X	X	X	X		
6	4/20/2026	1715	LLHGTB-04202026		--	1	1											X				
7	4/21/2026	0842	MW-38	N	GW	4	4		2							X	X	X	X	X		
8	4/21/2026	0954	MW-37	N	GW	4	4		2							X	X	X	X	X		
9	4/21/2026	1146	MW-36	N	GW	4	4		2							X	X	X	X	X		
10	4/21/2026	1318	MW-13	N	GW	4	4		2							X	X	X	X	X		

Please Sign	Relinquished By	Received By	Date	Time	Released By	Received By	Date	Time
1)	[signature]	[signature]	4/22/26	802	2)			
3)					4)			

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CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 26D1138

Report Results To:

Company Name: HDR Michigan	
Report To: Molly Reeves/Andrew Byks	
Mailing Address: 1000 Oakbrook Drive, Suite 200	
City, State, Zip Code: Ann Arbor MI 48104	
Office Phone:	Cell Phone: 5869965429
Email Address: molly.reeves@hdrinc.com; andrew.byks@hdrinc.com	

Bill To:

PO #: 10037505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By: NE

Checked By: AEO

Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab

Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

☒ Standard: 5-10 Business days
☐ 3 Business Days*
☐ 1 Business Day*
** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Part 257 Appendix IV	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Remarks/Notes	Possible Health Hazards?
11	4/21/2026	1440	MW-17	N	GW	4	4		2							X	X	X	X	X		
12	4/21/2026	1600	MW-07	N	GW	4	4		2							X	X	X	X	X		
13	4/21/2026	1715	LLHGTB-042126	N	–	1	1											X				
14	4/21/2026	1520	MW-08	N	GW	4	4		2							X	X	X	X	X		
15	4/21/2026	1600	MWT-08	N	GW	4	4		2							X	X	X	X	X		
16	4/21/2026	1100	MW-30	N	GW	4	4		2							X	X	X	X	X		
17	4/21/2026	0900	MW-31	N	GW	4	4		2							X	X	X	X	X		
18	4/21/2026	1210	MW-32	N	GW	4	4		2							X	X	X	X	X		
19	4/21/2026	1400	MW-42	N	GW	4	4		2							X	X	X	X	X		

Please Sign

	Released By	Received By	Date	Time
1)	Ann J Byk	Jmo	4/22/26	802
2)				
3)				
4)				

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Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 26D1138

Report Results To:

Company Name: HDR Michigan	
Report To: Molly Reeves/Andrew Byks	
Mailing Address: 1000 Oakbrook Drive, Suite 200	
City, State, Zip Code: Ann Arbor MI 48104	
Office Phone:	Cell Phone: 5869965429
Email Address: molly.reeves@hdrinc.com; andrew.byks@hdrinc.com	

Bill To:

PO #: 10337505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By: NE	
Checked By: CN	
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*
- ** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Part 257 Appendix IV	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Remarks/Notes / Possible Health Hazards?
20	4/22/2026	944	MW-02	N	GW	4	4		2							X	X	X	X	X	
21	4/22/2026	1130	MW-09	N	GW	4	4		2							X	X	X	X	X	
22	4/22/2026	1320	MW-11	N	GW	4	4		2							X	X	X	X	X	
23	4/22/2026	1422	MW-06	N	GW	4	4		2							X	X	X	X	X	
24	4/22/2026	1530	MW-01RB	N	GW	4	4		2							X	X	X	X	X	
25	4/22/2026	1632	MW-01R	N	GW	4	4		2							X	X	X	X	X	
26	4/22/2026	0845	MW-41	N	GW	4	4		2							X	X	X	X	X	
27	4/22/2026	1020	MW-20	N	GW	4	4		2							X	X	X	X	X	
28	4/22/2026	1145	MW-43	N	GW	4	4		2							X	X	X	X	X	
29	4/22/2026	1330	MW-27	N	GW	4	4		2							X	X	X	X	X	

Please Sign

	Released By	Date	Time	Received By
1)		4/23/26	15:00	
2)				
3)				
4)				

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Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 26D1138

Report Results To:

Company Name:	HDR Michigan
Report To:	Molly Reeves/Andrew Byks
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone: 5869965429
Email Address:	molly.reeves@hdrinc.com; andrew.byks@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	NC
Checked By:	CN
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: Part 115 Metals	TSS	LLHG	40 CFR Part 257 Appendix III	40 CFR Part 257 Appendix IV	Possible Health Hazards?	Remarks/Notes
30	4/22/2026	1500	MW-34	N	GW	4	4		2							X	X	X	X	X		
31	4/22/2026	1630	MW-18	N	GW	4	4		2							X	X	X	X	X		
32	4/22/2026	1715	LLHGTB-04222026	N	--	1	1											X				
33	4/23/2026	908	MW-10	N	GW	4	4	2								X	X	X	X	X		
34	4/23/2026	908	MWT-10	N	GW	4	4	2								X	X	X	X	X		
35	4/23/2026	1140	MW-19	N	GW	4	4	2								X	X	X	X	X		
36	4/23/2026	1258	MW-28	N	GW	4	4	2								X	X	X	X	X		
37	4/23/2026	0915	MW-39	N	GW	4	4	2								X	X	X	X	X		
38	4/23/2026	1030	MW-16	N	GW	4	4	2								X	X	X	X	X		
39	4/23/2026	1145	MW-33	N	GW	4	4	2								X	X	X	X	X		

Please Sign	Released By	Date	Time	Received By
1)				
2)		4/23/26	15:00	
3)				
4)				

In executing this Chain of Custody, the client acknowledges the terms as set forth at www.trace-labs.com/terms-of-agreement.

☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads.

Form 70-Z.2

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231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Trace ID No. 26D1138

Report Results To:

Company Name:	HDR Michigan
Report To:	Molly Reeves/Andrew Byks
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone: 5869965429
Email Address:	molly.reeves@hdrinc.com; andrew.byks@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	NP
Checked By:	CM
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Part 257 Appendix IV+	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Remarks/Notes	Possible Health Hazards?
40	4/23/2026	1350	SG-02	N	SW	4	4		2							X	X	X	X	X		
41	4/23/2026	1330	SG-04R	N	SW	4	4		2							X	X	X	X	X		
42	4/23/2026	1315	SG-05	N	SW	4	4		2							X	X	X	X	X		
43	4/23/2026	1400	SG-07	N	SW	4	4		2							X	X	X	X	X		
44	4/23/2026	1410	LLHGTB-04232026	-	-	1	1											X				

Please Sign	Released By	Date	Time	Received By
1)				
2)		4/23/26	15:00	
3)				
4)				

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888-979-4469 Fax
www.trace-labs.com

26D1138
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 8:35										
Initials: CN										
Package Description: Cooler										
Package Temp °C	5.6	5.0				X				
Representative Sample Temp °C	8.1	7.3				X				X

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

HDR-GHH1-MW-07, 8 / LLHGTB-04212026, 04202026, MW-07, 8

Form 70-A.63
Effective 4/20/26

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26D1138
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 9:12										
Initials: CN										
Package Description: Cooler										
Package Temp °C	4.6	4.0				X				
Representative Sample Temp °C	13.3	12.7				X				X

Sample Receipt

Yes No

- [X] [ ] Received on ice or other coolant
- [X] [ ] Ice still present upon receipt
- [ ] [X] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [X] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [X] [ ] [ ] All sample containers arrived unbroken and labeled
- [X] [ ] [ ] Sufficient sample to run requested analyses
- [X] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [X] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [X] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [X] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [X] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [X] [ ] All bottle labels agree with COC
- [X] [ ] COC filled out properly
- [X] [ ] COC signed by client

Notes:

MW-13, MW-17, MW-36, MW-38

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26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 9:39										
Initials: CN										
Package Description: Cooler										
Package Temp °C	4.6	4.7		x						
Representative Sample Temp °C	4.1	4.2		x						X

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-03, MW-04, MW-04R, MW-12

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26D1138
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 8:59										
Initials: CN										
Package Description: Cooler										
Package Temp °C	3.0	3.1		x						
Representative Sample Temp °C	6.1	6.2		x						x

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-08, MW-30, MW-31, MW-32, MW-42

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26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 633										
Initials: SAB										
Package Description: Cool										
Package Temp °C	5.0	4.4				✓				
Representative Sample Temp °C	5.1	4.9						✓	✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-41, 43, 20, 34, SM7000RaB (226) & SM7500 Rad (228)

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(2)

26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 648										
Initials: SAD										
Package Description: Cooler										
Package Temp °C	0.0	-0.6				✓				
Representative Sample Temp °C	7.4	7.2						✓	✓	

Sample Receipt

Yes / No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes / No / N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes / No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-02, 09, 11, 06, 01RB

Form 70-A.63
Effective 4/20/26

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888-979-4469 Fax
www.trace-labs.com

(3)

26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 653										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	-0.4	0.0	✓							
Representative Sample Temp °C	2.0	1.7					✓		✓	

Sample Receipt

Yes	No		
✓	☐	Received on ice or other coolant	
✓	☐	Ice still present upon receipt	
☐	✓	Custody seals present	☐ Yes ☐ No Custody seals intact (if applicable)
☐ Trace Courier	✓ Client Drop-off	☐ UPS	☐ Fed Ex ☐ US Mail ☐ Other

Sample Condition

Yes	No	N/A	
✓	☐	☐	All sample containers arrived unbroken and labeled
✓	☐	☐	Sufficient sample to run requested analyses
✓	☐	☐	Correct chemical preservative added to samples
☐	✓	☐	Samples preserved at Trace (if yes, fill in preservation information below)
			Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
✓	☐	☐	Chemical preservation verified, check EMD pH test strip used (if applicable)
			✓ pH 0-2.5 (Lot: HC461264) ☐ pH 11.0-13.0 (Lot: HC022540) ☐ Other
☐	☐	✓	Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes	No	
✓	☐	All bottle labels agree with COC
✓	☐	COC filled out properly
✓	☐	COC signed by client

Notes:

MW-39, 16, 18, 33

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(3) (4) SAB 4/24

26D1138
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 658										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	0.2	0.6	✓							
Representative Sample Temp °C	1.8	1.5					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

SG-02, SG-04R, SG-05, SG-07

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Effective 4/20/26

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www.trace-labs.com

26D1138

HDR Michigan Inc.
Project Manager: Jon Mink

(5)

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 713										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	7.9	8.3	✓							
Representative Sample Temp °C	5.7	5.4					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-28, 19, 01R, 10

Form 70-A.63
Effective 4/20/26

TRACE Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

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Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673

TRACE
ANALYTICAL LABORATORIES, INC.

231-773-5998 Phone
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May 29, 2026

Molly Reeves
HDR Michigan Inc.
1000 Oakbrook Dr., Suite 200
Ann Arbor, MI 48104

RE: Trace Project 26D1139
Client Project City of Grand Haven - Harbor Island

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

The results were obtained from Eurofins Drinking Water and Wastewater Central.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

Jon Mink
Senior Project Manager

Enclosures

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SAMPLE SUMMARY

Trace Project ID: 26D1139
Client Project ID: City of Grand Haven - Harbor Island

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
26D1139-01	MW-03	Ground Water	AB/FDR	04/20/26 12:32	04/22/26 08:02
26D1139-02	MW-04	Ground Water	AB/FDR	04/20/26 14:04	04/22/26 08:02
26D1139-03	MW-04R	Ground Water	AB/FDR	04/20/26 15:08	04/22/26 08:02
26D1139-04	MW-12	Ground Water	AB/FDR	04/20/26 16:20	04/22/26 08:02
26D1139-05	MWT-12	Ground Water	AB/FDR	04/20/26 16:20	04/22/26 08:02
26D1139-06	MW-38	Ground Water	AB/FDR	04/21/26 08:42	04/22/26 08:02
26D1139-07	MW-37	Ground Water	AB/FDR	04/21/26 09:54	04/22/26 08:02
26D1139-08	MW-36	Ground Water	AB/FDR	04/21/26 11:46	04/22/26 08:02
26D1139-09	MW-13	Ground Water	AB/FDR	04/21/26 13:18	04/22/26 08:02
26D1139-10	MW-17	Ground Water	AB/FDR	04/21/26 14:40	04/22/26 08:02
26D1139-11	MW-07	Ground Water	AB/FDR	04/21/26 16:00	04/22/26 08:02
26D1139-12	MW-08	Ground Water	AB/FDR	04/21/26 15:20	04/22/26 08:02
26D1139-13	MWT-08	Ground Water	AB/FDR	04/21/26 16:00	04/22/26 08:02
26D1139-14	MW-30	Ground Water	AB/FDR	04/21/26 11:00	04/22/26 08:02
26D1139-15	MW-31	Ground Water	AB/FDR	04/21/26 09:00	04/22/26 08:02
26D1139-16	MW-32	Ground Water	AB/FDR	04/21/26 12:10	04/22/26 08:02
26D1139-17	MW-42	Ground Water	AB/FDR	04/21/26 14:00	04/22/26 08:02
26D1139-18	MW-02	Ground Water	AB/FDR	04/22/26 09:44	04/22/26 08:02
26D1139-19	MW-09	Ground Water	AB/FDR	04/22/26 11:30	04/22/26 08:02
26D1139-20	MW-11	Ground Water	AB/FDR	04/22/26 13:20	04/22/26 08:02
26D1139-21	MW-06	Ground Water	AB/FDR	04/22/26 14:22	04/22/26 08:02

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26D1139-22	MW-01RB	Ground Water	AB/FDR	04/22/26 15:30	04/22/26 08:02
26D1139-23	MW-01R	Ground Water	AB/FDR	04/22/26 16:32	04/22/26 08:02
26D1139-24	MW-41	Ground Water	AB/FDR	04/22/26 08:45	04/22/26 08:02
26D1139-25	MW-20	Ground Water	AB/FDR	04/22/26 10:20	04/22/26 08:02
26D1139-26	MW-43	Ground Water	AB/FDR	04/22/26 11:45	04/22/26 08:02
26D1139-27	MW-27	Ground Water	AB/FDR	04/22/26 13:30	04/22/26 08:02
26D1139-28	MW-34	Ground Water	AB/FDR	04/22/26 15:00	04/22/26 08:02
26D1139-29	MW-18	Ground Water	AB/FDR	04/22/26 16:30	04/22/26 08:02
26D1139-30	MW-10	Ground Water	AB/FDR	04/23/26 09:08	04/22/26 08:02
26D1139-31	MWT-10	Ground Water	AB/FDR	04/23/26 09:08	04/22/26 08:02
26D1139-32	MW-19	Ground Water	AB/FDR	04/23/26 11:40	04/22/26 08:02
26D1139-33	MW-28	Ground Water	AB/FDR	04/23/26 12:58	04/22/26 08:02
26D1139-34	MW-39	Ground Water	AB/FDR	04/23/26 09:15	04/22/26 08:02
26D1139-35	MW-16	Ground Water	AB/FDR	04/23/26 10:30	04/22/26 08:02
26D1139-36	MW-33	Ground Water	AB/FDR	04/23/26 11:45	04/22/26 08:02
26D1139-37	SG-02	Ground Water	AB/FDR	04/23/26 13:50	04/22/26 08:02
26D1139-38	SG-04R	Ground Water	AB/FDR	04/23/26 13:30	04/22/26 08:02
26D1139-39	SG-05	Ground Water	AB/FDR	04/23/26 13:15	04/22/26 08:02
26D1139-40	SG-07	Ground Water	AB/FDR	04/23/26 14:00	04/22/26 08:02

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eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jon Mink
Trace Analytical Laboratories
2241 Black Creek Road
Muskegon, Michigan 49444

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JOB DESCRIPTION

26D1139 Harbor Island

JOB NUMBER

810-189921-1

Eurofins South Bend
110 S Hill Street
South Bend IN 46617

See page two for job notes and contact information.

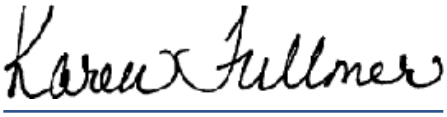
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater Central, LLC Project Manager.

Authorization



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Authorized for release by
Karen Fullmer, Project Manager
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Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 810-189921-1 — Eurofins South Bend

Job Narrative
810-189921-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 4/29/2026 9:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Gas Flow Proportional Counter
Method 904.0: Radium 228 Batch 768893

The detection goal was not met for the following sample due to a reduced sample volume used in prep attributed to the presence of matrix interferences. MW-01R (810-189921-23) and MWT-10 (810-189921-31)

Method 904.0: Radium-228 batch 768566
The detection goal was not met for the following samples due to the reduced sample volume used in prep attributed to the presence of matrix interferences: MW-04R (810-189921-3), MW-17 (810-189921-10) and MW-07 (810-189921-11). Analytical results are reported with the detection limit achieved.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MW-03 — **Lab Sample ID: 810-189921-1**

No Detections.

Client Sample ID: MW-04 — **Lab Sample ID: 810-189921-2**

No Detections.

Client Sample ID: MW-04R — **Lab Sample ID: 810-189921-3**

No Detections.

Client Sample ID: MW-12 — **Lab Sample ID: 810-189921-4**

No Detections.

Client Sample ID: MWT-12 — **Lab Sample ID: 810-189921-5**

No Detections.

Client Sample ID: MW-38 — **Lab Sample ID: 810-189921-6**

No Detections.

Client Sample ID: MW-37 — **Lab Sample ID: 810-189921-7**

No Detections.

Client Sample ID: MW-36 — **Lab Sample ID: 810-189921-8**

No Detections.

Client Sample ID: MW-13 — **Lab Sample ID: 810-189921-9**

No Detections.

Client Sample ID: MW-17 — **Lab Sample ID: 810-189921-10**

No Detections.

Client Sample ID: MW-07 — **Lab Sample ID: 810-189921-11**

No Detections.

Client Sample ID: MW-08 — **Lab Sample ID: 810-189921-12**

No Detections.

Client Sample ID: MWT-08 — **Lab Sample ID: 810-189921-13**

No Detections.

Client Sample ID: MW-30 — **Lab Sample ID: 810-189921-14**

No Detections.

Client Sample ID: MW-31 — **Lab Sample ID: 810-189921-15**

No Detections.

Client Sample ID: MW-32 — **Lab Sample ID: 810-189921-16**

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MW-42 — **Lab Sample ID: 810-189921-17**

No Detections.

Client Sample ID: MW-02 — **Lab Sample ID: 810-189921-18**

No Detections.

Client Sample ID: MW-09 — **Lab Sample ID: 810-189921-19**

No Detections.

Client Sample ID: MW-11 — **Lab Sample ID: 810-189921-20**

No Detections.

Client Sample ID: MW-06 — **Lab Sample ID: 810-189921-21**

No Detections.

Client Sample ID: MW-01RB — **Lab Sample ID: 810-189921-22**

No Detections.

Client Sample ID: MW-01R — **Lab Sample ID: 810-189921-23**

No Detections.

Client Sample ID: MW-41 — **Lab Sample ID: 810-189921-24**

No Detections.

Client Sample ID: MW-20 — **Lab Sample ID: 810-189921-25**

No Detections.

Client Sample ID: MW-43 — **Lab Sample ID: 810-189921-26**

No Detections.

Client Sample ID: MW-27 — **Lab Sample ID: 810-189921-27**

No Detections.

Client Sample ID: MW-34 — **Lab Sample ID: 810-189921-28**

No Detections.

Client Sample ID: MW-18 — **Lab Sample ID: 810-189921-29**

No Detections.

Client Sample ID: MW-10 — **Lab Sample ID: 810-189921-30**

No Detections.

Client Sample ID: MWT-10 — **Lab Sample ID: 810-189921-31**

No Detections.

Client Sample ID: MW-19 — **Lab Sample ID: 810-189921-32**

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MW-28 — **Lab Sample ID: 810-189921-33**

No Detections.

Client Sample ID: MW-39 — **Lab Sample ID: 810-189921-34**

No Detections.

Client Sample ID: MW-16 — **Lab Sample ID: 810-189921-35**

No Detections.

Client Sample ID: MW-33 — **Lab Sample ID: 810-189921-36**

No Detections.

Client Sample ID: SG-02 — **Lab Sample ID: 810-189921-37**

No Detections.

Client Sample ID: SG-04R — **Lab Sample ID: 810-189921-38**

No Detections.

Client Sample ID: SG-05 — **Lab Sample ID: 810-189921-39**

No Detections.

Client Sample ID: SG-07 — **Lab Sample ID: 810-189921-40**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-03

Date Collected: 04/20/26 12:32
Date Received: 04/29/26 09:25

Lab Sample ID: 810-189921-1

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.204	U	0.248	0.249	1.00	0.407	pCi/L	05/01/26 08:26	05/26/26 21:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.25**		0.645	0.655	1.00	0.910	pCi/L	05/01/26 08:28	05/26/26 11:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:50*	*1*
Y Carrier	*80.0*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:50*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.45**		0.691	0.701	5.00	0.910	pCi/L		05/29/26 11:31	1

Client Sample ID: MW-04

Date Collected: 04/20/26 14:04
Date Received: 04/29/26 09:25

Lab Sample ID: 810-189921-2

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194	U	0.170	0.171	1.00	0.247	pCi/L	05/01/26 08:26	05/26/26 21:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.4*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:05*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.41**		0.524	0.540	1.00	0.658	pCi/L	05/01/26 08:28	05/26/26 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.4*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:51*	*1*
Y Carrier	*78.1*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.60**		0.551	0.566	5.00	0.658	pCi/L		05/29/26 11:31	1

Client Sample ID: MW-04R

Lab Sample ID: 810-189921-3

Date Collected: 04/20/26 15:08

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.935		0.391	0.400	1.00	0.420	pCi/L	05/01/26 08:26	05/26/26 21:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.7*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:05*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.95	G	0.767	0.788	1.00	1.01	pCi/L	05/01/26 08:28	05/26/26 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.7*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:51*	*1*
Y Carrier	*78.5*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.88		0.861	0.884	5.00	1.01	pCi/L		05/29/26 11:31	1

Client Sample ID: MW-12

Lab Sample ID: 810-189921-4

Date Collected: 04/20/26 16:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.185	U	0.178	0.179	1.00	0.271	pCi/L	05/01/26 08:26	05/26/26 21:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:05*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.647	U	0.523	0.526	1.00	0.823	pCi/L	05/01/26 08:28	05/26/26 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:51*	*1*
Y Carrier	*76.6*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.833		0.552	0.556	5.00	0.823	pCi/L		05/29/26 11:31	1

Client Sample ID: MWT-12

Lab Sample ID: 810-189921-5

Date Collected: 04/20/26 16:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0817	U	0.147	0.147	1.00	0.261	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.9*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.347	U	0.504	0.505	1.00	0.848	pCi/L	05/01/26 08:28	05/26/26 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.9*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:58*	*1*
Y Carrier	*77.0*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:58*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.428	U	0.525	0.526	5.00	0.848	pCi/L		05/29/26 11:31	1

Client Sample ID: MW-38

Lab Sample ID: 810-189921-6

Date Collected: 04/21/26 08:42

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.823**		0.263	0.273	1.00	0.219	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.4*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.17**		0.539	0.550	1.00	0.748	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.4*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*79.6*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**2.00**		0.600	0.614	5.00	0.748	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-37

Lab Sample ID: 810-189921-7

Date Collected: 04/21/26 09:54

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.219	U	0.172	0.174	1.00	0.247	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.703	U	0.519	0.523	1.00	0.801	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*77.0*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.922**		0.547	0.551	5.00	0.801	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-36

Lab Sample ID: 810-189921-8

Date Collected: 04/21/26 11:46

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0194	U	0.128	0.128	1.00	0.260	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.2*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.487	U	0.521	0.523	1.00	0.849	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.2*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*75.5*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.506	U	0.536	0.538	5.00	0.849	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-13

Lab Sample ID: 810-189921-9

Date Collected: 04/21/26 13:18

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.280		0.176	0.178	1.00	0.225	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.985		0.519	0.526	1.00	0.747	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*78.5*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.26		0.548	0.555	5.00	0.747	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-17

Lab Sample ID: 810-189921-10

Date Collected: 04/21/26 14:40

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.228	U	0.232	0.233	1.00	0.364	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.1*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.603	U G	0.630	0.632	1.00	1.02	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.1*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.831	U	0.671	0.674	5.00	1.02	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-07

Lab Sample ID: 810-189921-11

Date Collected: 04/21/26 16:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.634		0.307	0.313	1.00	0.356	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.1*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.47	G	0.757	0.769	1.00	1.08	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.1*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*78.5*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.10		0.817	0.830	5.00	1.08	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-08

Lab Sample ID: 810-189921-12

Date Collected: 04/21/26 15:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.300		0.212	0.214	1.00	0.284	pCi/L	05/01/26 08:26	05/26/26 21:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:21*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.12		0.724	0.750	1.00	0.895	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*80.4*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.42		0.754	0.780	5.00	0.895	pCi/L		05/29/26 11:33	1

Client Sample ID: MWT-08

Lab Sample ID: 810-189921-13

Date Collected: 04/21/26 16:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.427		0.201	0.205	1.00	0.221	pCi/L	05/01/26 08:26	05/26/26 21:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:21*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.30		0.597	0.634	1.00	0.662	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.73		0.630	0.666	5.00	0.662	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-30

Lab Sample ID: 810-189921-14

Date Collected: 04/21/26 11:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.358		0.187	0.190	1.00	0.213	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.921		0.510	0.517	1.00	0.744	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.28		0.543	0.551	5.00	0.744	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-31

Lab Sample ID: 810-189921-15

Date Collected: 04/21/26 09:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.469		0.208	0.213	1.00	0.229	pCi/L	05/01/26 08:26	05/26/26 21:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:21*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.94		0.651	0.705	1.00	0.653	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*77.0*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	3.41		0.683	0.736	5.00	0.653	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-32

Lab Sample ID: 810-189921-16

Date Collected: 04/21/26 12:10

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.252		0.163	0.165	1.00	0.208	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.36		0.617	0.654	1.00	0.688	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*79.6*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.61		0.638	0.674	5.00	0.688	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-42

Lab Sample ID: 810-189921-17

Date Collected: 04/21/26 14:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.875		0.255	0.267	1.00	0.185	pCi/L	05/01/26 08:26	05/26/26 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.990		0.440	0.449	1.00	0.598	pCi/L	05/01/26 08:28	05/26/26 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*
Y Carrier	*84.1*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:59*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.86		0.509	0.522	5.00	0.598	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-02

Lab Sample ID: 810-189921-18

Date Collected: 04/22/26 09:44

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.559		0.296	0.300	1.00	0.372	pCi/L	05/01/26 08:06	05/28/26 20:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.6*		*30 - 110*	*05/01/26 08:06*	*05/28/26 20:37*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.36		0.557	0.571	1.00	0.709	pCi/L	05/01/26 08:15	05/28/26 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.6*		*30 - 110*	*05/01/26 08:15*	*05/28/26 11:45*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/01/26 08:15*	*05/28/26 11:45*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.92		0.631	0.645	5.00	0.709	pCi/L		05/29/26 11:23	1

Client Sample ID: MW-09

Lab Sample ID: 810-189921-19

Date Collected: 04/22/26 11:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0190	U	0.150	0.150	1.00	0.305	pCi/L	05/01/26 08:06	05/28/26 20:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*05/01/26 08:06*	*05/28/26 20:34*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.272	U	0.287	0.288	1.00	0.464	pCi/L	05/01/26 08:15	05/28/26 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*05/01/26 08:15*	*05/28/26 11:45*	*1*
Y Carrier	*81.9*		*30 - 110*	*05/01/26 08:15*	*05/28/26 11:45*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.272	U	0.324	0.325	5.00	0.464	pCi/L		05/29/26 11:23	1

Client Sample ID: MW-11

Lab Sample ID: 810-189921-20

Date Collected: 04/22/26 13:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.325**		0.146	0.149	1.00	0.152	pCi/L	05/04/26 08:14	05/26/26 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.419	U	0.567	0.568	1.00	0.948	pCi/L	05/04/26 08:24	05/23/26 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*
Y Carrier	*78.1*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.744	U	0.585	0.587	5.00	0.948	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-06

Lab Sample ID: 810-189921-21

Date Collected: 04/22/26 14:22

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.135	U	0.105	0.105	1.00	0.143	pCi/L	05/04/26 08:14	05/26/26 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.347	U	0.588	0.589	1.00	1.00	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*81.9*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.482	U	0.597	0.598	5.00	1.00	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-01RB

Lab Sample ID: 810-189921-22

Date Collected: 04/22/26 15:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179	U	0.136	0.137	1.00	0.197	pCi/L	05/04/26 08:14	05/26/26 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.0*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.20**		0.673	0.682	1.00	0.981	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.0*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*80.7*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.38**		0.687	0.696	5.00	0.981	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-01R

Date Collected: 04/22/26 16:32
Date Received: 04/29/26 09:25

Lab Sample ID: 810-189921-23

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0446	U	0.118	0.118	1.00	0.254	pCi/L	05/04/26 08:14	05/26/26 10:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.4*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:01*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.658	U G	0.665	0.667	1.00	1.08	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.4*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*81.5*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.658	U	0.675	0.677	5.00	1.08	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-41

Date Collected: 04/22/26 08:45
Date Received: 04/29/26 09:25

Lab Sample ID: 810-189921-24

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.171**		0.111	0.112	1.00	0.141	pCi/L	05/04/26 08:14	05/26/26 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.8*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.340	U	0.456	0.457	1.00	0.762	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.8*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*84.9*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.511	U	0.469	0.471	5.00	0.762	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-20

Lab Sample ID: 810-189921-25

Date Collected: 04/22/26 10:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.222		0.104	0.106	1.00	0.111	pCi/L	05/04/26 08:14	05/26/26 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.324	U	0.403	0.404	1.00	0.667	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*83.0*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.546	U	0.416	0.418	5.00	0.667	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-43

Lab Sample ID: 810-189921-26

Date Collected: 04/22/26 11:45

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0271	U	0.0541	0.0542	1.00	0.0994	pCi/L	05/04/26 08:14	05/26/26 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.373	U	0.351	0.353	1.00	0.562	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*84.5*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.400	U	0.355	0.357	5.00	0.562	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-27

Date Collected: 04/22/26 13:30
Date Received: 04/29/26 09:25

Lab Sample ID: 810-189921-27

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0720	U	0.0953	0.0956	1.00	0.159	pCi/L	05/04/26 08:14	05/26/26 10:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:03*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0828	U	0.545	0.545	1.00	0.973	pCi/L	05/04/26 08:24	05/23/26 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:48*	*1*
Y Carrier	*83.4*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:48*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.155	U	0.553	0.553	5.00	0.973	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-34

Date Collected: 04/22/26 15:00
Date Received: 04/29/26 09:25

Lab Sample ID: 810-189921-28

Matrix: Ground Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.329**		0.152	0.155	1.00	0.166	pCi/L	05/04/26 08:14	05/26/26 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.5*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.26**		0.657	0.668	1.00	0.944	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.5*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*80.4*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.59**		0.674	0.686	5.00	0.944	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-18

Lab Sample ID: 810-189921-29

Date Collected: 04/22/26 16:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0877	U	0.0762	0.0766	1.00	0.111	pCi/L	05/04/26 08:14	05/26/26 10:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:03*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.651**		0.399	0.404	1.00	0.588	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*86.4*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.739**		0.406	0.411	5.00	0.588	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-10

Lab Sample ID: 810-189921-30

Date Collected: 04/22/26 09:08

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0811	U	0.0967	0.0969	1.00	0.158	pCi/L	05/04/26 08:14	05/26/26 10:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*05/04/26 08:14*	*05/26/26 10:03*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.654	U	0.547	0.550	1.00	0.863	pCi/L	05/04/26 08:24	05/23/26 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*
Y Carrier	*83.0*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.735	U	0.555	0.558	5.00	0.863	pCi/L		05/29/26 11:33	1

Client Sample ID: MWT-10

Lab Sample ID: 810-189921-31

Date Collected: 04/23/26 09:08

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00411	U	0.0811	0.0811	1.00	0.172	pCi/L	05/04/26 08:14	05/26/26 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.8*		*30 - 110*	*05/04/26 08:14*	*05/26/26 12:03*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.737	U G	0.768	0.771	1.00	1.25	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.8*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*75.1*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.741	U	0.772	0.775	5.00	1.25	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-19

Lab Sample ID: 810-189921-32

Date Collected: 04/23/26 11:40

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0677	U	0.102	0.102	1.00	0.173	pCi/L	05/04/26 08:14	05/26/26 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*05/04/26 08:14*	*05/26/26 12:00*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0529	U	0.366	0.367	1.00	0.690	pCi/L	05/04/26 08:24	05/23/26 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*
Y Carrier	*86.7*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:51*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0677	U	0.380	0.381	5.00	0.690	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-28

Lab Sample ID: 810-189921-33

Date Collected: 04/23/26 12:58

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175		0.122	0.123	1.00	0.161	pCi/L	05/04/26 08:14	05/26/26 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.3*		*30 - 110*	*05/04/26 08:14*	*05/26/26 12:03*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.210	U	0.537	0.538	1.00	0.949	pCi/L	05/04/26 08:24	05/23/26 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.3*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*
Y Carrier	*75.9*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.385	U	0.551	0.552	5.00	0.949	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-39

Lab Sample ID: 810-189921-34

Date Collected: 04/23/26 09:15

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.107	U	0.0847	0.0852	1.00	0.119	pCi/L	05/04/26 08:14	05/26/26 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*05/04/26 08:14*	*05/26/26 12:03*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.422	U	0.377	0.379	1.00	0.597	pCi/L	05/04/26 08:24	05/23/26 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*
Y Carrier	*87.5*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.528	U	0.386	0.388	5.00	0.597	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-16

Lab Sample ID: 810-189921-35

Date Collected: 04/23/26 10:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.416		0.164	0.168	1.00	0.152	pCi/L	05/04/26 08:14	05/26/26 12:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.7*		*30 - 110*	*05/04/26 08:14*	*05/26/26 12:03*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.65		0.718	0.734	1.00	0.991	pCi/L	05/04/26 08:24	05/23/26 09:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.7*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*
Y Carrier	*86.7*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:50*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.07		0.736	0.753	5.00	0.991	pCi/L		05/29/26 11:33	1

Client Sample ID: MW-33

Lab Sample ID: 810-189921-36

Date Collected: 04/23/26 11:45

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0287	U	0.124	0.124	1.00	0.286	pCi/L	05/05/26 09:25	05/27/26 14:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*05/05/26 09:25*	*05/27/26 14:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.256	U	0.558	0.558	1.00	0.966	pCi/L	05/05/26 09:31	05/26/26 14:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:16*	*1*
Y Carrier	*82.2*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:16*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.256	U	0.572	0.572	5.00	0.966	pCi/L		05/29/26 11:33	1

Client Sample ID: SG-02

Lab Sample ID: 810-189921-37

Date Collected: 04/23/26 13:50

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0812	U	0.173	0.173	1.00	0.316	pCi/L	05/05/26 09:25	05/27/26 14:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.9*		*30 - 110*	*05/05/26 09:25*	*05/27/26 14:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.875	U	0.608	0.613	1.00	0.919	pCi/L	05/05/26 09:31	05/26/26 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.9*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.956**		0.632	0.637	5.00	0.919	pCi/L		05/29/26 11:33	1

Client Sample ID: SG-04R

Lab Sample ID: 810-189921-38

Date Collected: 04/23/26 13:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.110	U	0.174	0.174	1.00	0.303	pCi/L	05/05/26 09:25	05/27/26 16:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.1*		*30 - 110*	*05/05/26 09:25*	*05/27/26 16:08*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.274	U	0.540	0.540	1.00	0.935	pCi/L	05/05/26 09:31	05/26/26 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.1*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*
Y Carrier	*82.2*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.384	U	0.567	0.567	5.00	0.935	pCi/L		05/29/26 11:35	1

Client Sample ID: SG-05

Lab Sample ID: 810-189921-39

Date Collected: 04/23/26 13:15

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0350	U	0.207	0.207	1.00	0.390	pCi/L	05/05/26 09:25	05/27/26 16:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.5*		*30 - 110*	*05/05/26 09:25*	*05/27/26 16:08*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.220	U	0.437	0.437	1.00	0.758	pCi/L	05/05/26 09:31	05/26/26 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.5*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*
Y Carrier	*82.2*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.255	U	0.484	0.484	5.00	0.758	pCi/L		05/29/26 11:35	1

Client Sample ID: SG-07

Lab Sample ID: 810-189921-40

Date Collected: 04/23/26 14:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0807	U	0.187	0.187	1.00	0.340	pCi/L	05/05/26 09:25	05/27/26 16:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*05/05/26 09:25*	*05/27/26 16:08*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0633	U	0.551	0.551	1.00	0.989	pCi/L	05/05/26 09:31	05/26/26 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*
Y Carrier	*84.9*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*

Method: Lab SOP Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.144	U	0.582	0.582	5.00	0.989	pCi/L		05/29/26 11:35	1

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Ground Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
810-189921-1	MW-03	81.6
810-189921-2	MW-04	82.4
810-189921-3	MW-04R	78.7
810-189921-4	MW-12	83.6
810-189921-5	MWT-12	76.9
810-189921-5 DU	MWT-12	85.9
810-189921-6	MW-38	82.4
810-189921-7	MW-37	80.4
810-189921-8	MW-36	77.2
810-189921-9	MW-13	85.0
810-189921-10	MW-17	76.1
810-189921-11	MW-07	78.1
810-189921-12	MW-08	85.0
810-189921-13	MWT-08	85.3
810-189921-14	MW-30	81.8
810-189921-15	MW-31	87.0
810-189921-16	MW-32	85.6
810-189921-17	MW-42	90.5
810-189921-18	MW-02	80.6
810-189921-19	MW-09	89.7
810-189921-20	MW-11	84.7
810-189921-21	MW-06	85.0
810-189921-22	MW-01RB	81.0
810-189921-23	MW-01R	74.4
810-189921-24	MW-41	92.8
810-189921-25	MW-20	89.3
810-189921-25 DU	MW-20	85.9
810-189921-26	MW-43	94.2
810-189921-27	MW-27	88.8
810-189921-28	MW-34	86.5
810-189921-29	MW-18	86.7
810-189921-30	MW-10	93.7
810-189921-31	MWT-10	77.8
810-189921-32	MW-19	82.1
810-189921-33	MW-28	79.3
810-189921-34	MW-39	81.8
810-189921-35	MW-16	78.7
810-189921-36	MW-33	87.3
810-189921-37	SG-02	85.9
810-189921-38	SG-04R	80.1
810-189921-39	SG-05	94.5
810-189921-40	SG-07	89.3

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Trace Analytical Laboratories
Job ID: 810-189921-1
Project/Site: 26D1139 Harbor Island

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
LCS 160-768560/2-A	Lab Control Sample	86.9
LCS 160-768565/2-A	Lab Control Sample	93.1
LCS 160-768879/2-A	Lab Control Sample	86.5
LCS 160-769269/2-A	Lab Control Sample	94.2
MB 160-768560/1-A	Method Blank	88.0
MB 160-768565/1-A	Method Blank	85.0
MB 160-768879/1-A	Method Blank	87.3
MB 160-769269/1-A	Method Blank	87.9

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
810-189921-1	MW-03	81.6	80.0
810-189921-2	MW-04	82.4	78.1
810-189921-3	MW-04R	78.7	78.5
810-189921-4	MW-12	83.6	76.6
810-189921-5	MWT-12	76.9	77.0
810-189921-5 DU	MWT-12	85.9	77.8
810-189921-6	MW-38	82.4	79.6
810-189921-7	MW-37	80.4	77.0
810-189921-8	MW-36	77.2	75.5
810-189921-9	MW-13	85.0	78.5
810-189921-10	MW-17	76.1	81.1
810-189921-11	MW-07	78.1	78.5
810-189921-12	MW-08	85.0	80.4
810-189921-13	MWT-08	85.3	81.1
810-189921-14	MW-30	81.8	81.1
810-189921-15	MW-31	87.0	77.0
810-189921-16	MW-32	85.6	79.6
810-189921-17	MW-42	90.5	84.1
810-189921-18	MW-02	80.6	81.1
810-189921-19	MW-09	89.7	81.9
810-189921-20	MW-11	84.7	78.1
810-189921-21	MW-06	85.0	81.9
810-189921-22	MW-01RB	81.0	80.7
810-189921-23	MW-01R	74.4	81.5
810-189921-24	MW-41	92.8	84.9
810-189921-25	MW-20	89.3	83.0
810-189921-25 DU	MW-20	85.9	81.5
810-189921-26	MW-43	94.2	84.5
810-189921-27	MW-27	88.8	83.4
810-189921-28	MW-34	86.5	80.4
810-189921-29	MW-18	86.7	86.4
810-189921-30	MW-10	93.7	83.0
810-189921-31	MWT-10	77.8	75.1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
810-189921-32	MW-19	82.1	86.7
810-189921-33	MW-28	79.3	75.9
810-189921-34	MW-39	81.8	87.5
810-189921-35	MW-16	78.7	86.7
810-189921-36	MW-33	87.3	82.2
810-189921-37	SG-02	85.9	81.1
810-189921-38	SG-04R	80.1	82.2
810-189921-39	SG-05	94.5	82.2
810-189921-40	SG-07	89.3	84.9

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
LCS 160-768564/2-A	Lab Control Sample	86.9	84.1
LCS 160-768566/2-A	Lab Control Sample	93.1	82.6
LCS 160-768893/2-A	Lab Control Sample	86.5	82.2
LCS 160-769272/2-A	Lab Control Sample	94.2	84.1
MB 160-768564/1-A	Method Blank	88.0	81.1
MB 160-768566/1-A	Method Blank	85.0	80.7
MB 160-768893/1-A	Method Blank	87.3	81.1
MB 160-769272/1-A	Method Blank	87.9	80.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-768560/1-A
Matrix: Water
Analysis Batch: 773174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768560

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03903	U	0.109	0.109	1.00	0.212	pCi/L	05/01/26 08:06	05/28/26 16:59	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*05/01/26 08:06*	*05/28/26 16:59*	*1*

Lab Sample ID: LCS 160-768560/2-A
Matrix: Water
Analysis Batch: 773174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768560

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.57	7.593		1.04	1.00	0.246	pCi/L	79	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.9*		*30 - 110*

Lab Sample ID: MB 160-768565/1-A
Matrix: Water
Analysis Batch: 772846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768565

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02960	U	0.141	0.141	1.00	0.310	pCi/L	05/01/26 08:26	05/26/26 21:03	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*05/01/26 08:26*	*05/26/26 21:03*	*1*

Lab Sample ID: LCS 160-768565/2-A
Matrix: Water
Analysis Batch: 772846

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768565

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.57	8.621		1.14	1.00	0.254	pCi/L	90	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.1*		*30 - 110*

Lab Sample ID: 810-189921-5 DU
Matrix: Ground Water
Analysis Batch: 772844

Client Sample ID: MWT-12
Prep Type: Total/NA
Prep Batch: 768565

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0817	U		0.06232	U	0.134	1.00	0.245	pCi/L			0.07	1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 810-189921-5 DU
Matrix: Ground Water
Analysis Batch: 772844

Client Sample ID: MWT-12
Prep Type: Total/NA
Prep Batch: 768565

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.9		30 - 110

Lab Sample ID: MB 160-768879/1-A
Matrix: Water
Analysis Batch: 772844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768879

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.03049	U	0.0540	0.0540	1.00	0.134	pCi/L	05/04/26 08:14	05/26/26 10:03	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		30 - 110	05/04/26 08:14	05/26/26 10:03	1

Lab Sample ID: LCS 160-768879/2-A
Matrix: Water
Analysis Batch: 772844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768879

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.57	8.272		0.940	1.00	0.134	pCi/L	86	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.5		30 - 110

Lab Sample ID: 810-189921-25 DU
Matrix: Ground Water
Analysis Batch: 772844

Client Sample ID: MW-20
Prep Type: Total/NA
Prep Batch: 768879

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.222			0.06587	U	0.0735	1.00	0.116	pCi/L			0.87	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.9		30 - 110

Lab Sample ID: MB 160-769269/1-A
Matrix: Water
Analysis Batch: 773056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 769269

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.07109	U	0.0629	0.0633	1.00	0.190	pCi/L	05/05/26 09:25	05/27/26 14:21	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		30 - 110	05/05/26 09:25	05/27/26 14:21	1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-769269/2-A
Matrix: Water
Analysis Batch: 773056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 769269

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.57	8.514		1.03	1.00	0.168	pCi/L	89	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.2*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-768564/1-A
Matrix: Water
Analysis Batch: 773242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768564

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1598	U	0.337	0.337	1.00	0.660	pCi/L	05/01/26 08:15	05/28/26 11:40	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*05/01/26 08:15*	*05/28/26 11:40*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/01/26 08:15*	*05/28/26 11:40*	*1*

Lab Sample ID: LCS 160-768564/2-A
Matrix: Water
Analysis Batch: 773242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768564

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.11	10.68		1.43	1.00	0.601	pCi/L	117	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.9*		*30 - 110*
Y Carrier	*84.1*		*30 - 110*

Lab Sample ID: MB 160-768566/1-A
Matrix: Water
Analysis Batch: 772845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768566

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4887	U	0.434	0.436	1.00	0.688	pCi/L	05/01/26 08:28	05/26/26 11:51	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:51*	*1*
Y Carrier	*80.7*		*30 - 110*	*05/01/26 08:28*	*05/26/26 11:51*	*1*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-768566/2-A
Matrix: Water
Analysis Batch: 772845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768566

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.12	10.26		1.38	1.00	0.564	pCi/L	113	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.1*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

Lab Sample ID: 810-189921-5 DU
Matrix: Ground Water
Analysis Batch: 772844

Client Sample ID: MWT-12
Prep Type: Total/NA
Prep Batch: 768566

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.347	U		0.2776	U	0.415	1.00	0.700	pCi/L			0.08	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*85.9*		*30 - 110*
Y Carrier	*77.8*		*30 - 110*

Lab Sample ID: MB 160-768893/1-A
Matrix: Water
Analysis Batch: 772676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768893

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5792		0.359	0.363	1.00	0.522	pCi/L	05/04/26 08:24	05/23/26 09:46	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:46*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/04/26 08:24*	*05/23/26 09:46*	*1*

Lab Sample ID: LCS 160-768893/2-A
Matrix: Water
Analysis Batch: 772562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768893

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.13	11.39		1.53	1.00	0.663	pCi/L	125	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.5*		*30 - 110*
Y Carrier	*82.2*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 810-189921-25 DU
Matrix: Ground Water
Analysis Batch: 772562

Client Sample ID: MW-20
Prep Type: Total/NA
Prep Batch: 768893

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.324	U		0.4547	U	0.430	1.00	0.685	pCi/L			0.16	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*85.9*		*30 - 110*
Y Carrier	*81.5*		*30 - 110*

Lab Sample ID: MB 160-769272/1-A
Matrix: Water
Analysis Batch: 772844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 769272

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3367	U	0.434	0.435	1.00	0.722	pCi/L	05/05/26 09:31	05/26/26 14:14	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*
Y Carrier	*80.7*		*30 - 110*	*05/05/26 09:31*	*05/26/26 14:14*	*1*

Lab Sample ID: LCS 160-769272/2-A
Matrix: Water
Analysis Batch: 772844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 769272

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.12	10.08		1.38	1.00	0.651	pCi/L	111	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.2*		*30 - 110*
Y Carrier	*84.1*		*30 - 110*

Rad

Prep Batch: 768560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-18	MW-02	Total/NA	Ground Water	PrecSep-21	
810-189921-19	MW-09	Total/NA	Ground Water	PrecSep-21	
MB 160-768560/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-768560/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 768564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-18	MW-02	Total/NA	Ground Water	PrecSep_0	
810-189921-19	MW-09	Total/NA	Ground Water	PrecSep_0	
MB 160-768564/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-768564/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 768565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-1	MW-03	Total/NA	Ground Water	PrecSep-21	
810-189921-2	MW-04	Total/NA	Ground Water	PrecSep-21	
810-189921-3	MW-04R	Total/NA	Ground Water	PrecSep-21	
810-189921-4	MW-12	Total/NA	Ground Water	PrecSep-21	
810-189921-5	MWT-12	Total/NA	Ground Water	PrecSep-21	
810-189921-6	MW-38	Total/NA	Ground Water	PrecSep-21	
810-189921-7	MW-37	Total/NA	Ground Water	PrecSep-21	
810-189921-8	MW-36	Total/NA	Ground Water	PrecSep-21	
810-189921-9	MW-13	Total/NA	Ground Water	PrecSep-21	
810-189921-10	MW-17	Total/NA	Ground Water	PrecSep-21	
810-189921-11	MW-07	Total/NA	Ground Water	PrecSep-21	
810-189921-12	MW-08	Total/NA	Ground Water	PrecSep-21	
810-189921-13	MWT-08	Total/NA	Ground Water	PrecSep-21	
810-189921-14	MW-30	Total/NA	Ground Water	PrecSep-21	
810-189921-15	MW-31	Total/NA	Ground Water	PrecSep-21	
810-189921-16	MW-32	Total/NA	Ground Water	PrecSep-21	
810-189921-17	MW-42	Total/NA	Ground Water	PrecSep-21	
MB 160-768565/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-768565/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
810-189921-5 DU	MWT-12	Total/NA	Ground Water	PrecSep-21	

Prep Batch: 768566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-1	MW-03	Total/NA	Ground Water	PrecSep_0	
810-189921-2	MW-04	Total/NA	Ground Water	PrecSep_0	
810-189921-3	MW-04R	Total/NA	Ground Water	PrecSep_0	
810-189921-4	MW-12	Total/NA	Ground Water	PrecSep_0	
810-189921-5	MWT-12	Total/NA	Ground Water	PrecSep_0	
810-189921-6	MW-38	Total/NA	Ground Water	PrecSep_0	
810-189921-7	MW-37	Total/NA	Ground Water	PrecSep_0	
810-189921-8	MW-36	Total/NA	Ground Water	PrecSep_0	
810-189921-9	MW-13	Total/NA	Ground Water	PrecSep_0	
810-189921-10	MW-17	Total/NA	Ground Water	PrecSep_0	
810-189921-11	MW-07	Total/NA	Ground Water	PrecSep_0	
810-189921-12	MW-08	Total/NA	Ground Water	PrecSep_0	
810-189921-13	MWT-08	Total/NA	Ground Water	PrecSep_0	
810-189921-14	MW-30	Total/NA	Ground Water	PrecSep_0	

Rad (Continued)

Prep Batch: 768566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-15	MW-31	Total/NA	Ground Water	PrecSep_0	
810-189921-16	MW-32	Total/NA	Ground Water	PrecSep_0	
810-189921-17	MW-42	Total/NA	Ground Water	PrecSep_0	
MB 160-768566/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-768566/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
810-189921-5 DU	MWT-12	Total/NA	Ground Water	PrecSep_0	

Prep Batch: 768879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-20	MW-11	Total/NA	Ground Water	PrecSep-21	
810-189921-21	MW-06	Total/NA	Ground Water	PrecSep-21	
810-189921-22	MW-01RB	Total/NA	Ground Water	PrecSep-21	
810-189921-23	MW-01R	Total/NA	Ground Water	PrecSep-21	
810-189921-24	MW-41	Total/NA	Ground Water	PrecSep-21	
810-189921-25	MW-20	Total/NA	Ground Water	PrecSep-21	
810-189921-26	MW-43	Total/NA	Ground Water	PrecSep-21	
810-189921-27	MW-27	Total/NA	Ground Water	PrecSep-21	
810-189921-28	MW-34	Total/NA	Ground Water	PrecSep-21	
810-189921-29	MW-18	Total/NA	Ground Water	PrecSep-21	
810-189921-30	MW-10	Total/NA	Ground Water	PrecSep-21	
810-189921-31	MWT-10	Total/NA	Ground Water	PrecSep-21	
810-189921-32	MW-19	Total/NA	Ground Water	PrecSep-21	
810-189921-33	MW-28	Total/NA	Ground Water	PrecSep-21	
810-189921-34	MW-39	Total/NA	Ground Water	PrecSep-21	
810-189921-35	MW-16	Total/NA	Ground Water	PrecSep-21	
MB 160-768879/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-768879/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
810-189921-25 DU	MW-20	Total/NA	Ground Water	PrecSep-21	

Prep Batch: 768893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-20	MW-11	Total/NA	Ground Water	PrecSep_0	
810-189921-21	MW-06	Total/NA	Ground Water	PrecSep_0	
810-189921-22	MW-01RB	Total/NA	Ground Water	PrecSep_0	
810-189921-23	MW-01R	Total/NA	Ground Water	PrecSep_0	
810-189921-24	MW-41	Total/NA	Ground Water	PrecSep_0	
810-189921-25	MW-20	Total/NA	Ground Water	PrecSep_0	
810-189921-26	MW-43	Total/NA	Ground Water	PrecSep_0	
810-189921-27	MW-27	Total/NA	Ground Water	PrecSep_0	
810-189921-28	MW-34	Total/NA	Ground Water	PrecSep_0	
810-189921-29	MW-18	Total/NA	Ground Water	PrecSep_0	
810-189921-30	MW-10	Total/NA	Ground Water	PrecSep_0	
810-189921-31	MWT-10	Total/NA	Ground Water	PrecSep_0	
810-189921-32	MW-19	Total/NA	Ground Water	PrecSep_0	
810-189921-33	MW-28	Total/NA	Ground Water	PrecSep_0	
810-189921-34	MW-39	Total/NA	Ground Water	PrecSep_0	
810-189921-35	MW-16	Total/NA	Ground Water	PrecSep_0	
MB 160-768893/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-768893/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
810-189921-25 DU	MW-20	Total/NA	Ground Water	PrecSep_0	

QC Association Summary

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Rad

Prep Batch: 769269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-36	MW-33	Total/NA	Ground Water	PrecSep-21	
810-189921-37	SG-02	Total/NA	Ground Water	PrecSep-21	
810-189921-38	SG-04R	Total/NA	Ground Water	PrecSep-21	
810-189921-39	SG-05	Total/NA	Ground Water	PrecSep-21	
810-189921-40	SG-07	Total/NA	Ground Water	PrecSep-21	
MB 160-769269/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-769269/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 769272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-189921-36	MW-33	Total/NA	Ground Water	PrecSep_0	
810-189921-37	SG-02	Total/NA	Ground Water	PrecSep_0	
810-189921-38	SG-04R	Total/NA	Ground Water	PrecSep_0	
810-189921-39	SG-05	Total/NA	Ground Water	PrecSep_0	
810-189921-40	SG-07	Total/NA	Ground Water	PrecSep_0	
MB 160-769272/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-769272/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MW-03

Lab Sample ID: 810-189921-1

Date Collected: 04/20/26 12:32

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772846	SWS	EET SL	05/26/26 21:04
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772845	SWS	EET SL	05/26/26 11:50
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:31

Client Sample ID: MW-04

Lab Sample ID: 810-189921-2

Date Collected: 04/20/26 14:04

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772846	SWS	EET SL	05/26/26 21:05
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772845	SWS	EET SL	05/26/26 11:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:31

Client Sample ID: MW-04R

Lab Sample ID: 810-189921-3

Date Collected: 04/20/26 15:08

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772846	SWS	EET SL	05/26/26 21:05
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772845	SWS	EET SL	05/26/26 11:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:31

Client Sample ID: MW-12

Lab Sample ID: 810-189921-4

Date Collected: 04/20/26 16:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772846	SWS	EET SL	05/26/26 21:05
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772845	SWS	EET SL	05/26/26 11:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:31

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MWT-12

Lab Sample ID: 810-189921-5

Date Collected: 04/20/26 16:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:31

Client Sample ID: MW-38

Lab Sample ID: 810-189921-6

Date Collected: 04/21/26 08:42

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-37

Lab Sample ID: 810-189921-7

Date Collected: 04/21/26 09:54

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-36

Lab Sample ID: 810-189921-8

Date Collected: 04/21/26 11:46

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-13

Lab Sample ID: 810-189921-9

Date Collected: 04/21/26 13:18

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-17

Lab Sample ID: 810-189921-10

Date Collected: 04/21/26 14:40

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-07

Lab Sample ID: 810-189921-11

Date Collected: 04/21/26 16:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-08

Lab Sample ID: 810-189921-12

Date Collected: 04/21/26 15:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:21
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MWT-08

Lab Sample ID: 810-189921-13

Date Collected: 04/21/26 16:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:21
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-30

Lab Sample ID: 810-189921-14

Date Collected: 04/21/26 11:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-31

Lab Sample ID: 810-189921-15

Date Collected: 04/21/26 09:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:21
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-32

Lab Sample ID: 810-189921-16

Date Collected: 04/21/26 12:10

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MW-42

Lab Sample ID: 810-189921-17

Date Collected: 04/21/26 14:00
Date Received: 04/29/26 09:25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768565	VLQ	EET SL	05/01/26 08:26
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 21:20
Total/NA	Prep	PrecSep_0			768566	VLQ	EET SL	05/01/26 08:28
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-02

Lab Sample ID: 810-189921-18

Date Collected: 04/22/26 09:44
Date Received: 04/29/26 09:25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768560	VLQ	EET SL	05/01/26 08:06
Total/NA	Analysis	903.0		1	773174	SWS	EET SL	05/28/26 20:37
Total/NA	Prep	PrecSep_0			768564	VLQ	EET SL	05/01/26 08:15
Total/NA	Analysis	904.0		1	773251	FLC	EET SL	05/28/26 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:23

Client Sample ID: MW-09

Lab Sample ID: 810-189921-19

Date Collected: 04/22/26 11:30
Date Received: 04/29/26 09:25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768560	VLQ	EET SL	05/01/26 08:06
Total/NA	Analysis	903.0		1	773174	SWS	EET SL	05/28/26 20:34
Total/NA	Prep	PrecSep_0			768564	VLQ	EET SL	05/01/26 08:15
Total/NA	Analysis	904.0		1	773251	FLC	EET SL	05/28/26 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:23

Client Sample ID: MW-11

Lab Sample ID: 810-189921-20

Date Collected: 04/22/26 13:20
Date Received: 04/29/26 09:25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:04
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:50
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MW-06

Lab Sample ID: 810-189921-21

Date Collected: 04/22/26 14:22

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:04
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-01RB

Lab Sample ID: 810-189921-22

Date Collected: 04/22/26 15:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:04
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-01R

Lab Sample ID: 810-189921-23

Date Collected: 04/22/26 16:32

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:01
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-41

Lab Sample ID: 810-189921-24

Date Collected: 04/22/26 08:45

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:04
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-20

Lab Sample ID: 810-189921-25

Date Collected: 04/22/26 10:20

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:04
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-43

Lab Sample ID: 810-189921-26

Date Collected: 04/22/26 11:45

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:04
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-27

Lab Sample ID: 810-189921-27

Date Collected: 04/22/26 13:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:03
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-34

Lab Sample ID: 810-189921-28

Date Collected: 04/22/26 15:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:04
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MW-18

Lab Sample ID: 810-189921-29

Date Collected: 04/22/26 16:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:03
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-10

Lab Sample ID: 810-189921-30

Date Collected: 04/22/26 09:08

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 10:03
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:50
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MWT-10

Lab Sample ID: 810-189921-31

Date Collected: 04/23/26 09:08

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 12:03
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-19

Lab Sample ID: 810-189921-32

Date Collected: 04/23/26 11:40

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 12:00
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: MW-28

Lab Sample ID: 810-189921-33

Date Collected: 04/23/26 12:58
Date Received: 04/29/26 09:25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 12:03
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:50
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-39

Lab Sample ID: 810-189921-34

Date Collected: 04/23/26 09:15
Date Received: 04/29/26 09:25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 12:03
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:50
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-16

Lab Sample ID: 810-189921-35

Date Collected: 04/23/26 10:30
Date Received: 04/29/26 09:25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			768879	ASL	EET SL	05/04/26 08:14
Total/NA	Analysis	903.0		1	772844	SWS	EET SL	05/26/26 12:03
Total/NA	Prep	PrecSep_0			768893	ASL	EET SL	05/04/26 08:24
Total/NA	Analysis	904.0		1	772562	SWS	EET SL	05/23/26 09:50
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: MW-33

Lab Sample ID: 810-189921-36

Date Collected: 04/23/26 11:45
Date Received: 04/29/26 09:25

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			769269	VLQ	EET SL	05/05/26 09:25
Total/NA	Analysis	903.0		1	773064	SWS	EET SL	05/27/26 14:23
Total/NA	Prep	PrecSep_0			769272	VLQ	EET SL	05/05/26 09:31
Total/NA	Analysis	904.0		1	772887	FLC	EET SL	05/26/26 14:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Lab Chronicle

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Client Sample ID: SG-02

Lab Sample ID: 810-189921-37

Date Collected: 04/23/26 13:50

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			769269	VLQ	EET SL	05/05/26 09:25
Total/NA	Analysis	903.0		1	773064	SWS	EET SL	05/27/26 14:24
Total/NA	Prep	PrecSep_0			769272	VLQ	EET SL	05/05/26 09:31
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 14:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:33

Client Sample ID: SG-04R

Lab Sample ID: 810-189921-38

Date Collected: 04/23/26 13:30

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			769269	VLQ	EET SL	05/05/26 09:25
Total/NA	Analysis	903.0		1	773064	SWS	EET SL	05/27/26 16:08
Total/NA	Prep	PrecSep_0			769272	VLQ	EET SL	05/05/26 09:31
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 14:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:35

Client Sample ID: SG-05

Lab Sample ID: 810-189921-39

Date Collected: 04/23/26 13:15

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			769269	VLQ	EET SL	05/05/26 09:25
Total/NA	Analysis	903.0		1	773064	SWS	EET SL	05/27/26 16:08
Total/NA	Prep	PrecSep_0			769272	VLQ	EET SL	05/05/26 09:31
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 14:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:35

Client Sample ID: SG-07

Lab Sample ID: 810-189921-40

Date Collected: 04/23/26 14:00

Matrix: Ground Water

Date Received: 04/29/26 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			769269	VLQ	EET SL	05/05/26 09:25
Total/NA	Analysis	903.0		1	773064	SWS	EET SL	05/27/26 16:08
Total/NA	Prep	PrecSep_0			769272	VLQ	EET SL	05/05/26 09:31
Total/NA	Analysis	904.0		1	772844	SWS	EET SL	05/26/26 14:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	773330	FLC	EET SL	05/29/26 11:35

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-27
ANAB	Dept. of Energy	L2305.01	04-06-27
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-26
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-26
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-26
Georgia (DW)	State	C061	06-30-26
HI - RadChem Recognition	State	n/a	06-30-26
Illinois	NELAP	200023	11-30-26
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-26
Kentucky (DW)	State	KY90125	12-31-26
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-26
Louisiana (All)	NELAP	106151	06-30-26
Louisiana (DW)	State	LA011	12-31-26
Maine	State	MO00054	03-05-28
Maryland	State	310	10-01-26
Massachusetts	State	M-MO054	06-30-26
MI - RadChem Recognition	State	9005	06-30-26
Missouri	State	780	06-30-28
Nevada	State	MO00054	07-31-26
New Hampshire	NELAP	2100	02-04-27
New Jersey	NELAP	MO002	06-30-26
New Mexico	State	MO00054	06-30-26
New York	NELAP	11616	04-01-27
North Carolina (DW)	State	29700	06-30-26
North Dakota	State	R-207	06-30-26
Oklahoma	NELAP	9997	12-31-26
Oregon	NELAP	4157	09-01-26
Pennsylvania	NELAP	68-00540	02-28-27
Rhode Island	State	LAO00392	12-30-26
South Carolina	State	85002	06-30-26
Texas	NELAP	T104704193	07-31-26
US Fish & Wildlife	US Federal Programs	058448	07-31-26
Utah	NELAP	MO00054	07-31-26
Vermont	State	VT 87689	03-20-27
Virginia	NELAP	460230	06-14-26
Washington	State	C592	08-31-26
West Virginia DEP	State	381	10-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	Lab SOP	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

None = None

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Trace Analytical Laboratories
Project/Site: 26D1139 Harbor Island

Job ID: 810-189921-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
810-189921-1	MW-03	Ground Water	04/20/26 12:32	04/29/26 09:25	Michigan
810-189921-2	MW-04	Ground Water	04/20/26 14:04	04/29/26 09:25	Michigan
810-189921-3	MW-04R	Ground Water	04/20/26 15:08	04/29/26 09:25	Michigan
810-189921-4	MW-12	Ground Water	04/20/26 16:20	04/29/26 09:25	Michigan
810-189921-5	MWT-12	Ground Water	04/20/26 16:20	04/29/26 09:25	Michigan
810-189921-6	MW-38	Ground Water	04/21/26 08:42	04/29/26 09:25	Michigan
810-189921-7	MW-37	Ground Water	04/21/26 09:54	04/29/26 09:25	Michigan
810-189921-8	MW-36	Ground Water	04/21/26 11:46	04/29/26 09:25	Michigan
810-189921-9	MW-13	Ground Water	04/21/26 13:18	04/29/26 09:25	Michigan
810-189921-10	MW-17	Ground Water	04/21/26 14:40	04/29/26 09:25	Michigan
810-189921-11	MW-07	Ground Water	04/21/26 16:00	04/29/26 09:25	Michigan
810-189921-12	MW-08	Ground Water	04/21/26 15:20	04/29/26 09:25	Michigan
810-189921-13	MWT-08	Ground Water	04/21/26 16:00	04/29/26 09:25	Michigan
810-189921-14	MW-30	Ground Water	04/21/26 11:00	04/29/26 09:25	Michigan
810-189921-15	MW-31	Ground Water	04/21/26 09:00	04/29/26 09:25	Michigan
810-189921-16	MW-32	Ground Water	04/21/26 12:10	04/29/26 09:25	Michigan
810-189921-17	MW-42	Ground Water	04/21/26 14:00	04/29/26 09:25	Michigan
810-189921-18	MW-02	Ground Water	04/22/26 09:44	04/29/26 09:25	Michigan
810-189921-19	MW-09	Ground Water	04/22/26 11:30	04/29/26 09:25	Michigan
810-189921-20	MW-11	Ground Water	04/22/26 13:20	04/29/26 09:25	Michigan
810-189921-21	MW-06	Ground Water	04/22/26 14:22	04/29/26 09:25	Michigan
810-189921-22	MW-01RB	Ground Water	04/22/26 15:30	04/29/26 09:25	Michigan
810-189921-23	MW-01R	Ground Water	04/22/26 16:32	04/29/26 09:25	Michigan
810-189921-24	MW-41	Ground Water	04/22/26 08:45	04/29/26 09:25	Michigan
810-189921-25	MW-20	Ground Water	04/22/26 10:20	04/29/26 09:25	Michigan
810-189921-26	MW-43	Ground Water	04/22/26 11:45	04/29/26 09:25	Michigan
810-189921-27	MW-27	Ground Water	04/22/26 13:30	04/29/26 09:25	Michigan
810-189921-28	MW-34	Ground Water	04/22/26 15:00	04/29/26 09:25	Michigan
810-189921-29	MW-18	Ground Water	04/22/26 16:30	04/29/26 09:25	Michigan
810-189921-30	MW-10	Ground Water	04/22/26 09:08	04/29/26 09:25	Michigan
810-189921-31	MWT-10	Ground Water	04/23/26 09:08	04/29/26 09:25	Michigan
810-189921-32	MW-19	Ground Water	04/23/26 11:40	04/29/26 09:25	Michigan
810-189921-33	MW-28	Ground Water	04/23/26 12:58	04/29/26 09:25	Michigan
810-189921-34	MW-39	Ground Water	04/23/26 09:15	04/29/26 09:25	Michigan
810-189921-35	MW-16	Ground Water	04/23/26 10:30	04/29/26 09:25	Michigan
810-189921-36	MW-33	Ground Water	04/23/26 11:45	04/29/26 09:25	Michigan
810-189921-37	SG-02	Ground Water	04/23/26 13:50	04/29/26 09:25	Michigan
810-189921-38	SG-04R	Ground Water	04/23/26 13:30	04/29/26 09:25	Michigan
810-189921-39	SG-05	Ground Water	04/23/26 13:15	04/29/26 09:25	Michigan
810-189921-40	SG-07	Ground Water	04/23/26 14:00	04/29/26 09:25	Michigan

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810-189921 Chain of Custody

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South Bend, IN 46617
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F: 1.574.233.8207

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Batch # _____

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CHAIN OF CUSTODY RECORD

Page _____ of _____

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc . 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998			MI	26D1139	26D1139
BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444	COMPLIANCE MONITORING: Yes = X, No =	POPULATION SERVED	SOURCE WATER		

LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 1	04/20/26	12:32			MW-03	Radium 226/226				1	GW	SW
2 2	04/20/26	14:04			MW-04	Radium 226/226				1	GW	SW
3 3	04/20/26	15:08			MW-04R	Radium 226/226				1	GW	SW
4 4	04/20/26	16:20			MW-12	Radium 226/226				1	GW	SW
5 5	04/20/26	16:20			MWT-12	Radium 226/226				1	GW	SW
6 6	04/21/26	8:42			MW-38	Radium 226/226				1	GW	SW
7 7	04/21/26	9:54			MW-37	Radium 226/226				1	GW	SW
8 8	04/21/26	11:46			MW-36	Radium 226/226				1	GW	SW
9 9	04/21/26	13:18			MW-13	Radium 226/226				1	GW	SW
10 10	04/21/26	14:40			MW-17	Radium 226/226				1	GW	SW
11 11	04/21/26	16:00			MW-07	Radium 226/226				1	GW	SW
12 12	04/21/26	15:20			MW-08	Radium 226/226				1	GW	SW
13 13	04/21/26	16:00			MWT-08	Radium 226/226				1	GW	SW
14 14	04/21/26	11:00			MW-30							

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Michelle Johnson		AM PM	Fedex		AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Fedex		AM PM	M. PMotte	4/24/26	0925 AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM			AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

Level IV Data Package for St. Louis EDD

CONDITIONS UPON RECEIPT (check one):

____ Iced: Wet/Blue ____ Ambient _____ °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

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F: 1.574.233.8207

Order #

Batch # _____

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CHAIN OF CUSTODY RECORD

Page _____ of _____

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998			MI	26D1139	26D1139
BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444	COMPLIANCE MONITORING: Yes = x; No =	POPULATION SERVED	SOURCE WATER		

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	15	04/21/26	9:00			MW-31	Radium 226/226				1	GW	SW
2	16	04/21/26	12:10			MW-32	Radium 226/226				1	GW	SW
3	17	04/21/26	14:00			MW-42	Radium 226/226				1	GW	SW
4	18	04/22/26	9:44			MW-02	Radium 226/226				1	GW	SW
5	19	04/22/26	11:30			MW-09	Radium 226/226				1	GW	SW
6	20	04/22/26	13:20			MW-11	Radium 226/226				1	GW	SW
7	21	04/22/26	14:22			MW-06	Radium 226/226				1	GW	SW
8	22	04/22/26	15:30			MW-01RB	Radium 226/226				1	GW	SW
9	23	04/22/26	16:32			MW-01R	Radium 226/226				1	GW	SW
10	24	04/22/26	8:45			MW-41	Radium 226/226				1	GW	SW
11	25	04/22/26	10:20			MW-20	Radium 226/226				1	GW	SW
12	26	04/22/26	11:45			MW-43	Radium 226/226				1	GW	SW
13	27	04/21/26	13:30			MW-27	Radium 226/226				1	GW	SW
14	28	04/22/26	15:00			MW-34							

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Michelle Johnson		AM PM	Fedex		AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Fedex		AM PM	M. Pinette	4/24/26	0925 AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM			AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

Level IV Data Package for St. Louis EDD

CONDITIONS UPON RECEIPT (check one):

____ Iced: Wet/Blue ____ Ambient _____ °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* =Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

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Order #

Batch # _____

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REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Jon Mink, Tim Brewer (jmink@trace-labs.com, tbrewer@trace-labs.com) Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444 231-773-5998			MI	26D1139	26D1139
BILL TO: Accounts Payable, Trace Analytical Laboratories, Inc., 2241 Black Creek Rd., Muskegon, MI 49444	COMPLIANCE MONITORING: Yes = x, No =	POPULATION SERVED	SOURCE WATER		

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 29	04/22/26	16:30			MW-18	Radium 226/226				1	GW	SW
2 30	04/22/26	9:08			MW-10	Radium 226/226				1	GW	SW
3 31	04/23/26	9:08			MWT-10	Radium 226/226				1	GW	SW
4 32	04/23/26	11:40			MW-19	Radium 226/226				1	GW	SW
5 33	04/23/26	12:58			MW-28	Radium 226/226				1	GW	SW
6 34	04/23/26	9:15			MW-39	Radium 226/226				1	GW	SW
7 35	04/23/26	10:30			MW-16	Radium 226/226				1	GW	SW
8 36	04/23/26	11:45			MW-33	Radium 226/226				1	GW	SW
9 37	04/23/26	13:50			SG-02	Radium 226/226				1	GW	SW
10 38	04/23/26	13:30			SG-04R	Radium 226/226				1	GW	SW
11 39	04/23/26	13:15			SG-05	Radium 226/226				1	GW	SW
12 40	04/23/26	14:00			SG-07	Radium 226/226				1	GW	SW
13										1	GW	SW
14												

RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
Michelle Johnson			Fedex		
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
Fedex			M. Pruette	4/29/26	0925 AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY:	DATE	TIME AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

Level IV Data Package for St. Louis EDD

CONDITIONS UPON RECEIPT (check one):

____ Iced: Wet/Blue ____ Ambient _____ °C Upon Receipt____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA

eurofins | Environment Testing

CONDITION UPON RECEIPT FORM (CUR)

Client: Trace

Initiated by: MLP Date: APR 29 2026 Time: 0925 Shipper: FE Package Quantity: 11

(Y/N/NA)	Thermometer ID and CF (Circle One):	
NA Mercury solid samples must be received at 0- 6°C. If not, note temp below.	ID: CF:	ID: IR-3 CF: -1.4°C
NA Metal solid samples must be refrigerated (0- 6°C) upon receipt.		
NA If samples are from West Virginia, please fill out form ADMIN-0031.		
NA Do **NOT** preserve filtration/suspension samples. Note container ID below.		

	Shipping #(s)	Uncorrected Package Temp (°C)	Corrected Package Temp (°C)
1.	5110 5101 3285	17.6	16.2
2.	3274	16.7	15.3
3.	3263	17.1	15.7
4.	3311	16.6	15.2
5.	3300	17.1	15.7
6.	3355	16.8	15.4

Condition Circle "Y" for yes, "N" for no and "N/A" for not applicable.

Inspected by:_____

Y (N)	Are there custody seals present on the cooler?	Y N N/A	Do custody seals on bottles appear to be tampered with?
Y N (N/A)	Do custody seals on cooler appear to be tampered with?	Y N	Sample received in proper containers?
(Y) N	Were contents of cooler frisked after opening, but before unpacking?	Y N N/A	Headspace in Rn-222 samples? • Any air bubble must have NCM • If Yes, note sample ID's below
Y N	Sample received with COC?	Y N N/A	Individual containers frisked after unpacking?
Y N	Does the COC include the following : • sample ID's that match the container(s)? • location, date and time of collection? • collector's name? • sample preservation type?	Y N N/A	Was sample received with proper pH? pH strip lot #:_____ If not: • contact PM (do not adjust without approval) • Record sample ID and pH in notes • If pH is adjusted, record info below
Y N	Was sample received broken?	Y N N/A	Are containers for • Rn-222, C-14, Cl-36, H-3, I-129/131 • lab filtration/suspension marked with "Do Not Preserve" label?
Y N	Is sample volume sufficient for analysis?	Y N N/A	Are soil containers for C-14, H-3 & I-129/131 marked with "Do Not Dry" label?
Y N	Are there custody seals present on bottles?		

Notes:

pH Adjustment (if needed)	Date/Time of Preservation:
Preservative and lot#:	Final pH checked by (initials/date):
Amount of Preservative:	Final pH and pH strip lot#:

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-189921-1

Login Number: 189921

List Source: Eurofins South Bend

List Number: 1

Creator: Williams, Kameron

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Sample Preservative Verified	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: Trace Analytical Laboratories

Job Number: 810-189921-1

Login Number: 189921
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 04/29/26 04:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Page 1 of 2

Trace ID No. 26D1139

Report Results To:

Company Name: HDR Michigan	
Report To: Molly Reeves/Andrew Byks	
Mailing Address: 1000 Oakbrook Drive, Suite 200	
City, State, Zip Code: Ann Arbor MI 48104	
Office Phone:	Cell Phone: 5869965429
Email Address: molly.reeves@hdrinc.com; andrew.byks@hdrinc.com	

Bill To:

PO #: 10337505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By: NC	
Checked By: SAB	
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	40 CFR Part 257 Appendix IV	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals						Remarks/Notes	Possible Health Hazards?
1	4/20/2026	1232	MW-03	N	GW	4	4		2							X	X	X	X	X							
2	4/20/2026	1404	MW-04	N	GW	4	4		2							X	X	X	X	X							
3	4/20/2026	1508	MW-04R	N	GW	4	4		2							X	X	X	X	X							
4	4/20/2026	1620	MW-12	N	GW	4	4		2							X	X	X	X	X							
5	4/20/2026	1620	MWT-12	N	GW	4	4		2							X	X	X	X	X							
7	4/20/2026	1715	LLHGTB-04202026	--	GW	1	1											X									
6	4/21/2026	0842	MW-38	N	GW	4	4		2							X	X	X	X	X							
7	4/21/2026	0954	MW-37	N	GW	4	4		2							X	X	X	X	X							
8	4/21/2026	1146	MW-36	N	GW	4	4		2							X	X	X	X	X							
9	4/21/2026	1318	MW-13	N	GW	4	4		2							X	X	X	X	X							

Analysis Requested

	Released By	Date	Time	Received By
1)		4/22/26	802	
2)				
3)				
4)				

Please Sign

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Page 2 of 2

Trace ID No. 26D1139

Report Results To:

Company Name:	HDR Michigan
Report To:	Molly Reeves/Andrew Byks
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone: 5869965429
Email Address:	molly.reeves@hdrinc.com; andrew.byks@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	KLC
Checked By:	SAB

Soil Volatiles Preserved (circle if applicable): MeOH Low Level Lab

Sample Collection Time (Hrs):

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, W/I = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Part 257 Appendix IV	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Possible Health Hazards?	Remarks/Notes
10	4/21/2026	1440	MW-17	N	GW	4	4									X	X	X	X	X		
11	4/21/2026	1600	MW-07	N	GW	4	4		2							X	X	X	X	X		
1	4/21/2026	1715	LLHGTB-04212026	N	-	1	1											X	X	X		
12	4/21/2026	1520	MW-08	N	GW	4	4		2							X	X	X	X	X		
13	4/21/2026	1600	MWT-08	N	GW	4	4		2							X	X	X	X	X		
14	4/21/2026	1100	MW-30	N	GW	4	4		2							X	X	X	X	X		
15	4/21/2026	0900	MW-31	N	GW	4	4		2							X	X	X	X	X		
16	4/21/2026	1210	MW-32	N	GW	4	4		2							X	X	X	X	X		
17	4/21/2026	1400	MW-42	N	GW	4	4		2							X	X	X	X	X		

Please Sign	Released By	Date	Time	Received By
1)	Ann J Bur	4/22/26	802	2)
3)				4)

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Trace ID No. 26D 11139

Report Results To:

Company Name:	HDR Michigan
Report To:	Molly Reeves/Andrew Byks
Mailing Address:	1000 Oakbrook Drive, Suite 200
City, State, Zip Code:	Ann Arbor MI 48104
Office Phone:	Cell Phone: 5869965429
Email Address:	molly.reeves@hdrinc.com; andrew.byks@hdrinc.com

Bill To:

PO #:	10337505.006
Contact Name:	Lara Zawaideh
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By:	MS
Checked By:	SAB/KS
Soil Volatiles Preserved (circle if applicable):	MeOH / Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

	Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Preservation: Hydrochloric Acid (HCl)	Preservation: Nitric Acid (HNO3)	Preservation: Sulfuric Acid (H2SO4)	Preservation: Sodium Thiosulfate	Preservation: Sodium Hydroxide (NaOH)	Preservation: Ascorbic Acid	Preservation: Trizma	Preservation: Other	Analysis Requested: 40 CFR Part 257 Appendix IV	Analysis Requested: 40 CFR Part 257 Appendix III	Analysis Requested: LLHG	Analysis Requested: TSS	Analysis Requested: Part 115 Metals	Analysis Requested:	Analysis Requested:	Analysis Requested:	Analysis Requested:	Analysis Requested:	Analysis Requested: Remarks/Notes	Analysis Requested: Possible Health Hazards?
1	1	4/22/2026	944	MW-02	N	GW	4	4		2							X	X	X	X	X							
2	2	4/22/2026	1130	MW-09	N	GW	4	4		2							X	X	X	X	X							
3	3	4/22/2026	1320	MW-11	N	GW	4	4		2							X	X	X	X	X							
4	4	4/22/2026	1422	MW-06	N	GW	4	4		2							X	X	X	X	X							
5	5	4/22/2026	1530	MW-01RB	N	GW	4	4		2							X	X	X	X	X							
6	6	4/22/2026	1632	MW-01R	N	GW	4	4		2							X	X	X	X	X							
7	7	4/22/2026	0845	MW-41	N	GW	4	4		2							X	X	X	X	X							
8	8	4/22/2026	1020	MW-20	N	GW	4	4		2							X	X	X	X	X							
9	9	4/22/2026	1145	MW-43	N	GW	4	4		2							X	X	X	X	X							
10	10	4/22/2026	1330	MW-27	N	GW	4	4		2							X	X	X	X	X							

	Released By	Date	Time	Received By
1)		4/23/26	15:00	2)
3)				4)

Please Sign

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Trace ID No. 26D 1139

Report Results To:

Company Name:	HDR Michigan	PO #:	10337505.006
Report To:	Molly Reeves/Andrew Byks	Contact Name:	Lara Zawaideh
Mailing Address:	1000 Oakbrook Drive, Suite 200	Billing Address (if different):	
City, State, Zip Code:	Ann Arbor MI 48104	City, State, Zip Code:	
Office Phone:	Cell Phone: 5869965429	Phone Number:	
Email Address:	molly.reeves@hdrinc.com; andrew.byks@hdrinc.com	Billing Email Address:	

Bill To:

Trace Use:

Logged By:	MJ
Checked By:	SMP
Soil Volatiles Preserved (circle if applicable): MeOH / Low Level / Lab	
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

	Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Part 257 Appendix I	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Remarks/Notes	Possible Health Hazards?
28	11	4/22/2026	1500	MW-34	N	GW	4	4		2							X	X	X	X	X		
29	12	4/22/2026	1630	MW-18	N	GW	4	4		2							X	X	X	X	X		
		4/22/2026	1715	LLHGTB-04222026	N	--	1	1											X				
30	13	4/23/2026	908	MW-10	N	GW	4	4		2							X	X	X	X	X		
31	14	4/23/2026	908	MWT-10	N	GW	4	4		2							X	X	X	X	X		
32	15	4/23/2026	1140	MW-19	N	GW	4	4		2							X	X	X	X	X		
33	16	4/23/2026	1258	MW-28	N	GW	4	4		2							X	X	X	X	X		
34	17	4/23/2026	0915	MW-39	N	GW	4	4		2							X	X	X	X	X		
35	18	4/23/2026	1030	MW-16	N	GW	4	4		2							X	X	X	X	X		
36	19	4/23/2026	1145	MW-33	N	GW	4	4		2							X	X	X	X	X		

	Released By	Date	Time	Received By
Please Sign				
1)		4/24/26	15:00	2)
3)				4)

MS 4/24/26

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Trace ID No. 26D1139

Report Results To:

Company Name: HDR Michigan	
Report To: Molly Reeves/Andrew Byks	
Mailing Address: 1000 Oakbrook Drive, Suite 200	
City, State, Zip Code: Ann Arbor MI 48104	
Office Phone:	Cell Phone: 5869965429
Email Address: molly.reeves@hdrinc.com; andrew.byks@hdrinc.com	

Bill To:

PO #: 10337505.006	
Contact Name: Lara Zawaideh	
Billing Address (if different):	
City, State, Zip Code:	
Phone Number:	
Billing Email Address:	

Trace Use:

Logged By: MJ	
Checked By: SAB	
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level / Lab
Sample Collection Time (Hrs):	

Requested Turnaround Times (TAT)

- ☒ Standard: 5-10 Business days
- ☐ 3 Business Days*
- ☐ 1 Business Day*

** Rush TAT Requires Prior Approval*

Matrix Key:

WW = Wastewater, DW = Drinking Water, GW = Groundwater, LW = Liquid Waste, O = Oil, WI = Wipes, S = Solid, SL = Sludge, A = Air, U = Unknown

Project Name: Grand Haven Harbor Island

Sampled By (print): Andrew Byks/Franklin Davis Ray

Trace No.	Sample Collection Date	Sample Collection Time	Sample ID/Name	Metals Field Filterd (Y or N)	Matrix - see above →	Number of Containers	Preservation: Cool ≤ 4°C	Hydrochloric Acid (HCl)	Nitric Acid (HNO3)	Sulfuric Acid (H2SO4)	Sodium Thiosulfate	Sodium Hydroxide (NaOH)	Ascorbic Acid	Trizma	Other	Analysis Requested: 40 CFR Part 257 Appendix I	40 CFR Part 257 Appendix III	LLHG	TSS	Part 115 Metals	Remarks/Notes	Possible Health Hazards?
37	4/23/2026	1350	SG-02	N	SW	4	4		2							X	X	X	X	X		
38	4/23/2026	1330	SG-04R	N	SW	4	4		2							X	X	X	X	X		
39	4/23/2026	1315	SG-05	N	SW	4	4		2							X	X	X	X	X		
40	4/23/2026	1400	SG-07	N	SW	4	4		2							X	X	X	X	X		
41	4/23/2026	1410	LLHGTB-04232026	--	SW	1	1											X	X	X		

MS Hauler

Please Sign

	Released By	Received By	Date	Time
1)			4/23/26	15:00
2)				
3)				
4)				

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231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

26D1139
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 8:59										
Initials: CN										
Package Description: Cooler										
Package Temp °C	3.0	3.1		x						
Representative Sample Temp °C	6.1	6.2		x						x

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [ ] [ ] [x] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [ ] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-08, MW-30, MW-31, MW-32, MW-42 Radiums Only

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26D1139
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 9:39										
Initials: CN										
Package Description: Cooler										
Package Temp °C	4.6	4.7		x						
Representative Sample Temp °C	9.1	9.2		x						

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [ ] [ ] [x] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [ ] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-03, MW-04, MW-04R, MW-12 Radiums Only

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26D1139
HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 9:12										
Initials: CN										
Package Description: Cooler										
Package Temp °C	4.6	4.0				X				
Representative Sample Temp °C	13.3	12.7				X				X

Sample Receipt

Yes No

- [X] [ ] Received on ice or other coolant
- [X] [ ] Ice still present upon receipt
- [ ] [X] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [X] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [X] [ ] [ ] All sample containers arrived unbroken and labeled
- [X] [ ] [ ] Sufficient sample to run requested analyses
- [X] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [X] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [ ] [ ] [X] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [ ] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [X] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [X] [ ] All bottle labels agree with COC
- [X] [ ] COC filled out properly
- [X] [ ] COC signed by client

Notes:

MW-13, MW-17, MW-36, MW-38 Radiums Only

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HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/22/26										
Time: 8:35										
Initials: CN										
Package Description: Cooler										
Package Temp °C	5.6	5.0				x				
Representative Sample Temp °C	8.1	7.3				x				x

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [ ] [ ] [x] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [ ] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

HDR-GHH1-MW-07, 8 / LLHGTB-04212026, 04202026, MW-07, 8

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HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 633										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	5.0	4.4				✓				
Representative Sample Temp °C	5.1	4.9						✓	✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-41, 43, 20, 34, SM7000RaB (226) & SM7500Rad(228)

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(2)

26D1139

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 648										
Initials: SAD										
Package Description: Cooler										
Package Temp °C	0.0	-0.6				✓				
Representative Sample Temp °C	7.4	7.2						✓	✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-02, 09, 11, 06, 01RB

Form 70-A.63
Effective 4/20/26

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(3)

26D1139

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 653										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	-0.4	0.0	✓							
Representative Sample Temp °C	2.0	1.7					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [ ] [x] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-39, 16, 18, 33

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26D1139

HDR Michigan Inc.
Project Manager: Jon Mink

(3) (4) SAB 4/24

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 658										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	0.2	0.6	✓							
Representative Sample Temp °C	1.8	1.5					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off — [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

SG-02, SG-04R, SG-05, SG-07

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26D1139

HDR Michigan Inc.
Project Manager: Jon Mink

Sample Log In Checklist

	Original Observation	Corrected Temperature	IR-9 (CF: +0.4°C)	IR-12 (CF: +0.1°C)	IR-13 (CF: -1.0°C)	IR-14 (CF: -0.6°C)	SR1 (CF: -0.3°C)	SR2 (CF: -0.2°C)	Temp Blank	Client Sample
Date: 4/24/26										
Time: 713										
Initials: SAB										
Package Description: Cooler										
Package Temp °C	7.9	8.3	✓							
Representative Sample Temp °C	5.7	5.9					✓		✓	

Sample Receipt

Yes No

- [x] [ ] Received on ice or other coolant
- [x] [ ] Ice still present upon receipt
- [ ] [x] Custody seals present — [ ] Yes [ ] No Custody seals intact (if applicable)
- [ ] Trace Courier [x] Client Drop-off [ ] UPS [ ] Fed Ex [ ] US Mail [ ] Other

Sample Condition

Yes No N/A

- [x] [ ] [ ] All sample containers arrived unbroken and labeled
- [x] [ ] [ ] Sufficient sample to run requested analyses
- [x] [ ] [ ] Correct chemical preservative added to samples
- [ ] [x] [ ] Samples preserved at Trace (if yes, fill in preservation information below)
  Preservation - Reagent:_____ LIMS ID:_____ Date/Time:_____
- [x] [ ] [ ] Chemical preservation verified, check EMD pH test strip used (if applicable)
  [x] pH 0-2.5 (Lot: HC461264) [ ] pH 11.0-13.0 (Lot: HC022540) [ ] Other
- [ ] [ ] [x] Air bubbles absent from VOAs (no bubble greater than 6mm) _____

Chain of Custody (COC)

Yes No

- [x] [ ] All bottle labels agree with COC
- [x] [ ] COC filled out properly
- [x] [ ] COC signed by client

Notes:

MW-28, 19, 01R, 10

Form 70-A.63
Effective 4/20/26

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Appendix F

Statistical Outputs

Table 1: Summary Statistics, Non-Detects Included

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	108	110	38.0	160	37.2	0.344	-0.263
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	239	230	130	420	85.2	0.357	0.781
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Normal	Normal	126	130	46.0	210	47.5	0.377	-0.361
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Normal	Normal	12	14.0	4.80	17.0	3.64	0.304	-0.535
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	7.62	7.73	6.02	7.81	0.397	0.0521	-4.06
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Gamma	441	400	8.80	1000	317	0.720	0.370
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	2363	2400	2100	2600	121	0.0513	-0.239
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000522	0.000250	0.000170	0.00290	0.000643	1.23	3.17
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00156	0.00140	0.000730	0.00410	0.000706	0.451	2.72
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.375	0.330	0.200	0.810	0.157	0.419	1.25
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.000198	0.000200	0.0000520	0.000360	0.0000967	0.489	0.290
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Nonparametric	0.000240	0.0000750	0.0000320	0.00190	0.000418	1.74	3.85
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Lognormal	Lognormal	0.00322	0.00190	0.00130	0.0220	0.00462	1.44	4.13
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00707	0.00120	0.000640	0.0840	0.0193	2.73	3.95
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Normal	Normal	12	14.0	4.80	17.0	3.64	0.304	-0.535
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Lognormal	Lognormal	0.00163	0.000870	0.000350	0.00750	0.00190	1.16	2.30
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	2.34	2.50	0.770	3.40	0.765	0.327	-0.430
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-29 to 2026-04-22		Nonparametric	118	160	0.160	160	71.4	0.603	-1.17
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Lognormal	Lognormal	0.00145	0.000760	0.000250	0.00580	0.00166	1.14	2.02
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	19	13	68%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.930	0.957	0.601	1.28	0.212	0.228	0.101
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000814	0.000680	0.000300	0.00260	0.000527	0.647	2.71
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-29 to 2026-04-22		Nonparametric	0.000219	0.0000750	0.0000750	0.000380	0.000156	0.713	0.115
11_2_5_111	MW-01R	Part 115	Copper	mg/L	19	6	32%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000562	0.000290	0.000200	0.00280	0.000656	1.17	2.61
11_2_5_114	MW-01R	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Normal	Gamma	0.532	0.500	0.0590	1.40	0.421	0.791	0.516
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00755	0.00210	0.00120	0.0680	0.0157	2.08	3.56
11_2_5_123	MW-01R	Part 115	Silver	mg/L	19	19	100%	2022-11-29 to 2026-04-22		Nonparametric	0.0000921	0.0000500	0.0000500	0.000250	0.0000838	0.910	1.54
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00213	0.00190	0.000620	0.00460	0.00122	0.574	0.609
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19	3	16%	2022-11-29 to 2026-04-22	Gamma	Gamma	0.0173	0.00180	0.00120	0.140	0.0329	1.91	3.22
12_2_3_105	MW-02	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	109	100	59.0	190	34.0	0.312	1.17
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	198	200	170	240	18.1	0.0916	0.350
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	140	140	67.0	160	20.2	0.144	-2.90
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	10.4	10.0	4.50	16.0	2.55	0.245	0.282
12_2_3_120	MW-02	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.21	7.18	7.06	7.45	0.101	0.0139	0.821
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	19	10	53%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	4.07	1.30	0.410	51.0	11.4	2.81	4.28
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1947	1900	1600	2600	274	0.140	1.01
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Gamma	0.000248	0.000220	0.000100	0.000630	0.000138	0.555	1.64
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	0.00745	0.00760	0.000440	0.0120	0.00239	0.321	-1.06
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.471	0.470	0.320	0.730	0.0927	0.197	0.740
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	19	2	11%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.000255	0.000260	0.0000520	0.000520	0.000121	0.474	0.437
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	19	13	68%	2022-11-28 to 2026-04-22	Lognormal	Nonparametric	0.000118	0.0000750	0.0000320	0.000490	0.000118	1.00	2.57
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	0.0416	0.0450	0.000380	0.0680	0.0194	0.467	-0.381
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	0.00637	0.00630	0.000240	0.0120	0.00278	0.436	-0.135

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	10.4	10.0	4.50	16.0	2.55	0.245	0.282
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	19	1	5%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00277	0.00230	0.000100	0.00600	0.00173	0.625	0.473
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Gamma	1.50	1.50	0.870	2.50	0.405	0.270	1.11
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	119	160	1.20	160	71.2	0.600	-1.17
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	0.00856	0.00620	0.00380	0.0290	0.00593	0.693	2.56
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	18	6	33%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1.61	1.40	0.686	3.35	0.799	0.495	0.751
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00131	0.00120	0.000500	0.00230	0.000494	0.377	0.343
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-28 to 2026-04-22		Nonparametric	0.000216	0.0000750	0.0000750	0.000620	0.000178	0.824	0.726
12_2_5_111	MW-02	Part 115	Copper	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00213	0.00200	0.000230	0.00470	0.00117	0.551	0.777
12_2_5_114	MW-02	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	23.7	23.0	18.0	31.0	3.93	0.166	0.313
12_2_5_119	MW-02	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma	Gamma	0.0274	0.0230	0.000930	0.0740	0.0165	0.602	1.37
12_2_5_123	MW-02	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-22		Nonparametric	0.0000816	0.0000500	0.0000500	0.000250	0.0000749	0.918	2.04
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	19	1	5%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00389	0.00360	0.000620	0.00690	0.00192	0.495	-0.133
12_2_5_129	MW-02	Part 115	Zinc	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	0.0115	0.00330	0.00160	0.0440	0.0140	1.22	1.27
13_2_3_105	MW-03	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	4.06	4.10	3.30	4.50	0.337	0.0831	-0.671
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	356	350	290	430	38.2	0.107	0.143
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	148	140	72.0	300	55.4	0.374	1.27
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.699	0.620	0.520	1.60	0.237	0.340	3.34
13_2_3_120	MW-03	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	7.36	7.33	7.20	7.59	0.0905	0.0123	0.677
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Gamma	311	310	29.0	760	221	0.710	0.476
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	1979	1900	1600	2300	278	0.141	0.0349
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Nonparametric	0.000194	0.000100	0.0000870	0.000500	0.000160	0.829	1.40
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000912	0.000910	0.000490	0.00140	0.000262	0.287	0.0493
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Normal	Normal	0.356	0.370	0.130	0.500	0.0792	0.222	-1.10
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	19	12	63%	2022-11-28 to 2026-04-20	Lognormal	Nonparametric	0.0000800	0.0000520	0.0000520	0.000260	0.0000566	0.707	2.37
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-28 to 2026-04-20		Nonparametric	0.000111	0.0000750	0.0000320	0.000380	0.000101	0.906	2.26
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00441	0.00400	0.00300	0.00730	0.00118	0.269	0.914
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000761	0.000700	0.000370	0.00130	0.000295	0.388	0.659
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.699	0.620	0.520	1.60	0.237	0.340	3.34
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	19	18	95%	2022-11-28 to 2026-04-20		Nonparametric	0.000403	0.000220	0.000100	0.00110	0.000354	0.878	1.13
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.0368	0.0350	0.0260	0.0650	0.00923	0.251	1.78
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	122	160	0.160	240	76.9	0.629	-0.912
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	19	13	68%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.000780	0.000390	0.000250	0.00310	0.000882	1.13	2.16
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	18	3	17%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	1.08	0.978	0.540	1.92	0.377	0.348	0.713
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19	3	16%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000419	0.000400	0.000170	0.00110	0.000199	0.474	2.30
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-28 to 2026-04-20		Nonparametric	0.000225	0.000180	0.0000750	0.000380	0.000153	0.680	0.0530
13_2_5_111	MW-03	Part 115	Copper	mg/L	19	9	47%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.000394	0.000240	0.000200	0.00100	0.000304	0.770	1.36
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	1.25	0.780	0.0980	5.90	1.46	1.17	2.17
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.00219	0.00140	0.000850	0.0150	0.00315	1.44	4.16
13_2_5_123	MW-03	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-20		Nonparametric	0.0000921	0.0000500	0.0000500	0.000250	0.0000838	0.910	1.54
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	19	9	47%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00121	0.00120	0.000620	0.00310	0.000670	0.552	1.30
13_2_5_129	MW-03	Part 115	Zinc	mg/L	19	9	47%	2022-11-28 to 2026-04-20	Gamma; Normal	Gamma	0.00733	0.00130	0.000590	0.0250	0.00901	1.23	1.06

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
14_2_3_105	MW-04	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	3.68	4.00	0.680	4.70	0.992	0.269	-2.03
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	364	360	250	560	63.1	0.173	1.49
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Normal	Normal	135	130	11.0	300	78.4	0.580	0.101
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal; Normal	Normal	1.45	1.40	0.760	2.30	0.351	0.243	0.862
14_2_3_120	MW-04	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	7.31	7.34	6.78	7.66	0.178	0.0243	-1.23
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Normal	Normal	605	610	1.80	1100	219	0.362	-0.599
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Normal	Normal	1816	1800	1100	2200	308	0.170	-1.06
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.000220	0.000100	0.0000500	0.000500	0.000177	0.808	0.762
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.00132	0.00100	0.000470	0.00590	0.00121	0.917	3.39
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.131	0.120	0.0250	0.460	0.0850	0.650	3.46
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	19	16	84%	2022-11-28 to 2026-04-20		Nonparametric	0.0000575	0.0000520	0.0000520	0.000100	0.0000142	0.246	2.61
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	19	19	100%	2022-11-28 to 2026-04-20		Nonparametric	0.000109	0.0000750	0.0000320	0.000380	0.000101	0.925	2.29
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00340	0.00310	0.000740	0.00600	0.00145	0.427	-0.131
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal	Lognormal	0.000608	0.000360	0.000110	0.00250	0.000592	0.973	2.43
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal; Normal	Normal	1.45	1.40	0.760	2.30	0.351	0.243	0.862
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	19	15	79%	2022-11-28 to 2026-04-20		Nonparametric	0.000381	0.000260	0.000100	0.00110	0.000302	0.793	1.41
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.0580	0.0610	0.0310	0.0740	0.0136	0.234	-0.671
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-28 to 2026-04-20		Nonparametric	118	160	0.160	160	72	0.609	-1.17
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-28 to 2026-04-20	Lognormal	Nonparametric	0.00287	0.00130	0.000370	0.0130	0.00386	1.35	1.97
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.973	0.868	0.560	1.55	0.336	0.346	0.380
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	19	5	26%	2022-11-28 to 2026-04-20	Lognormal	Lognormal	0.000285	0.000220	0.000100	0.00120	0.000237	0.832	3.50
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-28 to 2026-04-20		Nonparametric	0.000203	0.0000750	0.0000750	0.000380	0.000155	0.761	0.348
14_2_5_111	MW-04	Part 115	Copper	mg/L	19	13	68%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.000334	0.000200	0.000200	0.00110	0.000285	0.854	2.12
14_2_5_114	MW-04	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	5.11	5.60	0.190	6.80	1.87	0.366	-1.81
14_2_5_119	MW-04	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Normal	Normal	0.0131	0.0130	0.00190	0.0220	0.00549	0.418	-0.487
14_2_5_123	MW-04	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-20		Nonparametric	0.0000921	0.0000500	0.0000500	0.000250	0.0000838	0.910	1.54
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	19	10	53%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.000738	0.000620	0.000530	0.00120	0.000202	0.274	1.35
14_2_5_129	MW-04	Part 115	Zinc	mg/L	19	10	53%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.00337	0.00120	0.00120	0.0130	0.00375	1.11	1.99
16_1_3_105	MW-06	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	9.42	9.70	6.40	12.0	1.63	0.173	-0.219
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	243	230	200	310	34.9	0.144	0.733
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	64.8	59.0	13.0	160	37.3	0.576	0.855
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1.22	1.20	0.980	1.60	0.190	0.155	0.438
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	7.26	7.28	6.42	7.51	0.226	0.0311	-3.07
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	14.7	9.40	0.410	100	22.1	1.50	3.49
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	1188	1200	980	1300	76.7	0.0645	-0.956
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	19	16	84%	2022-11-29 to 2026-04-22		Nonparametric	0.000166	0.000100	0.0000500	0.000500	0.000142	0.854	1.67
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.000681	0.000650	0.000370	0.00100	0.000185	0.272	0.410
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	1.42	1.40	0.990	1.70	0.149	0.105	-0.932
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	19	16	84%	2022-11-29 to 2026-04-22		Nonparametric	0.0000649	0.0000520	0.0000520	0.000290	0.0000545	0.840	4.36
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	19	19	100%	2022-11-29 to 2026-04-22		Nonparametric	0.000109	0.0000750	0.0000320	0.000380	0.000101	0.925	2.29
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	0.00154	0.00140	0.000950	0.00300	0.000528	0.342	1.38
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000646	0.000460	0.000330	0.00340	0.000680	1.05	4.08

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1.22	1.20	0.980	1.60	0.190	0.155	0.438
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	19	10	53%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.000314	0.000220	0.000100	0.00110	0.000305	0.972	2.00
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.173	0.170	0.110	0.230	0.0370	0.214	0.0298
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	118	160	0.490	160	72.1	0.610	-1.17
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	19	10	53%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000766	0.000280	0.000250	0.00510	0.00123	1.61	3.08
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	19	4	21%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	0.885	0.824	0.460	1.91	0.343	0.387	1.78
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	19	5	26%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000239	0.000220	0.000160	0.000470	0.0000742	0.310	2.40
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-29 to 2026-04-22		Nonparametric	0.000144	0.0000750	0.0000750	0.000380	0.000127	0.880	1.45
16_1_5_111	MW-06	Part 115	Copper	mg/L	19	13	68%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000392	0.000200	0.000200	0.00330	0.000706	1.80	4.32
16_1_5_114	MW-06	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	15.8	16.0	4.60	31.0	6.83	0.431	0.458
16_1_5_119	MW-06	Part 115	Nickel	mg/L	19	6	32%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00101	0.000900	0.000650	0.00380	0.000699	0.690	3.87
16_1_5_123	MW-06	Part 115	Silver	mg/L	19	18	95%	2022-11-29 to 2026-04-22		Nonparametric	0.0000979	0.0000500	0.0000500	0.000250	0.0000845	0.862	1.32
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	19	14	74%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000786	0.000620	0.000460	0.00390	0.000755	0.961	4.33
16_1_5_129	MW-06	Part 115	Zinc	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.0250	0.00180	0.00120	0.0940	0.0363	1.45	1.00
17_1_3_105	MW-07	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	11	11.0	6.90	13.0	1.45	0.132	-1.23
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	148	150	120	170	12.7	0.0861	-0.464
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	14.7	14.0	13.0	17.0	1.33	0.0900	0.541
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	19	4	21%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.116	0.110	0.0550	0.220	0.0451	0.387	0.564
17_1_3_120	MW-07	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	6.88	6.88	6.58	7.05	0.115	0.0167	-1.20
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	26.6	28.0	15.0	48.0	9.23	0.346	0.467
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Normal	Normal	664	680	470	740	74.3	0.112	-1.53
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.0000879	0.000100	0.0000500	0.000100	0.0000212	0.241	-1.30
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000199	0.000200	0.000100	0.000290	0.0000433	0.218	-0.406
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.358	0.350	0.250	0.430	0.0430	0.120	-0.428
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	19	14	74%	2022-11-30 to 2026-04-21	Lognormal	Nonparametric	0.0000597	0.0000520	0.0000520	0.000120	0.0000184	0.309	2.76
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.0000637	0.0000750	0.0000320	0.0000750	0.0000195	0.305	-1.17
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	0.000355	0.000330	0.000250	0.000740	0.000105	0.296	2.94
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000943	0.000970	0.000710	0.00120	0.000124	0.131	-0.0423
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	19	4	21%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.116	0.110	0.0550	0.220	0.0451	0.387	0.564
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.000132	0.000100	0.000100	0.000220	0.0000543	0.413	1.17
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00623	0.00570	0.00310	0.0100	0.00157	0.252	0.530
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	118	160	0.160	160	72.3	0.613	-1.17
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.000351	0.000250	0.000250	0.000620	0.000166	0.473	1.14
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	0.975	0.928	0.570	2.36	0.384	0.394	2.76
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	19	9	47%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000149	0.000120	0.000100	0.000230	0.0000533	0.358	0.618
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
17_1_5_111	MW-07	Part 115	Copper	mg/L	19	14	74%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000231	0.000200	0.000200	0.000620	0.0000964	0.417	4.06
17_1_5_114	MW-07	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	16.7	17.0	13.0	21.0	2.49	0.149	0.167
17_1_5_119	MW-07	Part 115	Nickel	mg/L	19	14	74%	2022-11-30 to 2026-04-21	Lognormal	Nonparametric	0.000557	0.000650	0.000160	0.000710	0.000194	0.349	-1.55
17_1_5_123	MW-07	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	19	12	63%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000670	0.000620	0.000590	0.000950	0.0000998	0.149	1.73
17_1_5_129	MW-07	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-21	Gamma; Normal	Nonparametric	0.00824	0.00120	0.000750	0.0330	0.0110	1.34	1.20

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
18_1_3_105	MW-08	Appendix III	Boron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	6.08	6.60	2.50	9.30	1.82	0.299	-0.262
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	132	130	85.0	160	19.9	0.150	-0.735
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	38.1	30.0	17.0	110	26.8	0.702	1.99
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Normal	Normal	0.958	1.00	0.400	1.40	0.262	0.274	-0.665
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	7.20	7.25	6.21	7.57	0.277	0.0384	-2.64
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	19	5	26%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	15.3	5.60	0.410	65.0	18.7	1.23	1.38
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	545	550	320	780	102	0.187	0.0340
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	19	11	58%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000119	0.000100	0.0000540	0.000280	0.0000499	0.418	2.21
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Normal	Normal	0.0408	0.0440	0.00690	0.0910	0.0186	0.456	0.577
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	1.19	1.20	0.580	1.50	0.251	0.211	-0.924
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.0000581	0.0000520	0.0000520	0.000120	0.0000186	0.320	2.97
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.0000655	0.0000750	0.0000320	0.000110	0.0000221	0.337	-0.517
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000762	0.000700	0.000420	0.00150	0.000269	0.353	1.18
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000490	0.000450	0.000220	0.000980	0.000195	0.398	0.844
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Normal	Normal	0.958	1.00	0.400	1.40	0.262	0.274	-0.665
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	19	12	63%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000345	0.000100	0.000100	0.00290	0.000649	1.88	3.78
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0967	0.0970	0.0630	0.140	0.0248	0.256	0.363
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	19	17	89%	2022-12-01 to 2026-04-21		Nonparametric	118	160	0.160	160	72.2	0.612	-1.17
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	19	1	5%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00158	0.00160	0.000250	0.00410	0.00107	0.678	0.617
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19	5	26%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.997	0.895	0.550	2.10	0.383	0.384	1.56
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	2022-12-01 to 2026-04-21	Lognormal	Lognormal	0.000175	0.000150	0.000100	0.000340	0.0000675	0.386	1.05
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.0000779	0.0000750	0.0000750	0.000130	0.0000126	0.162	4.36
18_1_5_111	MW-08	Part 115	Copper	mg/L	19	6	32%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000342	0.000290	0.000200	0.000800	0.000166	0.485	1.45
18_1_5_114	MW-08	Part 115	Iron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	17.6	18.0	6.60	32.0	6.83	0.388	0.330
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.00278	0.00150	0.000850	0.0130	0.00285	1.02	2.82
18_1_5_123	MW-08	Part 115	Silver	mg/L	19	19	100%	2022-12-01 to 2026-04-21		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	19	16	84%	2022-12-01 to 2026-04-21		Nonparametric	0.000565	0.000620	0.000280	0.000910	0.000162	0.286	-0.629
18_1_5_129	MW-08	Part 115	Zinc	mg/L	19	3	16%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.0309	0.00180	0.00120	0.160	0.0493	1.59	1.56
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	5.50	5.70	2.30	6.90	0.952	0.173	-2.09
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	407	420	230	530	91.9	0.226	-0.399
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	29.9	18.0	11.0	93.0	23	0.767	1.51
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	2.48	2.50	1.60	2.90	0.330	0.133	-0.970
19_2_3_120	MW-09	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.17	7.20	6.88	7.52	0.147	0.0205	0.174
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Normal	Normal	578	610	83.0	1300	316	0.547	0.295
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1568	1600	740	2400	415	0.265	-0.115
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	19	12	63%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.000168	0.000100	0.0000500	0.000500	0.000137	0.816	1.82
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	0.00215	0.00230	0.000820	0.00330	0.000639	0.298	-0.418
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	0.330	0.200	0.0460	2.40	0.518	1.57	3.93
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	19	14	74%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.0000626	0.0000520	0.0000520	0.000150	0.0000248	0.396	2.91
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-28 to 2026-04-22		Nonparametric	0.000134	0.0000750	0.0000320	0.000680	0.000167	1.24	2.49
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00227	0.00220	0.00110	0.00320	0.000571	0.252	-0.117
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	0.000808	0.000530	0.000230	0.00640	0.00137	1.70	4.20

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	2.48	2.50	1.60	2.90	0.330	0.133	-0.970
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	19	17	89%	2022-11-28 to 2026-04-22		Nonparametric	0.000344	0.000220	0.000100	0.00110	0.000314	0.911	1.54
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	0.317	0.310	0.260	0.540	0.0602	0.190	2.99
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Nonparametric	338	160	0.160	2400	679	2.01	2.77
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0227	0.0230	0.00970	0.0330	0.00630	0.277	-0.251
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	19	17	89%	2022-11-28 to 2026-04-22		Nonparametric	0.754	0.771	0.450	1.12	0.158	0.209	0.146
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	0.000498	0.000270	0.000120	0.00350	0.000751	1.51	3.95
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-28 to 2026-04-22		Nonparametric	0.000187	0.0000750	0.0000750	0.000380	0.000151	0.807	0.593
19_2_5_111	MW-09	Part 115	Copper	mg/L	19	11	58%	2022-11-28 to 2026-04-22	Lognormal	Nonparametric	0.000563	0.000200	0.000200	0.00380	0.000892	1.59	3.12
19_2_5_114	MW-09	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	19.6	19.0	5.80	26.0	5.23	0.267	-0.883
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Gamma	0.0117	0.00330	0.000720	0.100	0.0230	1.96	3.51
19_2_5_123	MW-09	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-22		Nonparametric	0.0000816	0.0000500	0.0000500	0.000250	0.0000749	0.918	2.04
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	19	15	79%	2022-11-28 to 2026-04-22		Nonparametric	0.000584	0.000620	0.000280	0.000710	0.000105	0.181	-2.20
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Gamma	0.0122	0.00170	0.00120	0.120	0.0271	2.23	3.86
20_3_3_105	MW-10	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Normal	Normal	18.8	21.0	4.50	30.0	8.06	0.428	-0.425
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	289	270	160	590	106	0.367	1.57
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	321	310	92.0	700	182	0.566	0.840
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	5.32	5.60	2.70	7.70	1.44	0.271	-0.372
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-23	Nonparametric	Nonparametric	7.75	7.78	7.05	8.81	0.359	0.0463	1.07
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	551	410	140	1700	386	0.701	1.60
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Lognormal	Lognormal	2016	1800	1500	3200	467	0.232	1.27
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-29 to 2026-04-23		Nonparametric	0.000160	0.000100	0.0000500	0.000500	0.000137	0.856	1.93
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000809	0.000730	0.000200	0.00200	0.000511	0.632	1.03
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.346	0.320	0.140	0.720	0.161	0.465	1.01
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	19	9	47%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0000785	0.0000540	0.0000520	0.000220	0.0000439	0.560	2.27
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	19	19	100%	2022-11-29 to 2026-04-23		Nonparametric	0.000109	0.0000750	0.0000320	0.000380	0.000101	0.925	2.29
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00398	0.00410	0.00130	0.00850	0.00183	0.459	0.688
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	0.000471	0.000380	0.000100	0.00180	0.000373	0.793	2.74
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	5.32	5.60	2.70	7.70	1.44	0.271	-0.372
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	19	17	89%	2022-11-29 to 2026-04-23		Nonparametric	0.000360	0.000170	0.000100	0.00110	0.000365	1.01	1.36
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	0.934	0.940	0.540	1.60	0.230	0.246	0.992
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	19	16	84%	2022-11-29 to 2026-04-23		Nonparametric	210	160	0.160	1900	416	1.98	4.14
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00285	0.00270	0.000650	0.00720	0.00170	0.596	0.996
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	19	15	79%	2022-11-29 to 2026-04-23		Nonparametric	0.845	0.801	0.590	1.36	0.210	0.248	0.977
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	0.000349	0.000320	0.000190	0.000830	0.000134	0.384	2.71
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-29 to 2026-04-23		Nonparametric	0.000187	0.0000750	0.0000750	0.000380	0.000151	0.806	0.593
20_3_5_111	MW-10	Part 115	Copper	mg/L	19	16	84%	2022-11-29 to 2026-04-23		Nonparametric	0.000283	0.000200	0.000200	0.00130	0.000258	0.912	3.82
20_3_5_114	MW-10	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	4.89	4.50	2.30	7.70	1.69	0.346	0.189
20_3_5_119	MW-10	Part 115	Nickel	mg/L	19	7	37%	2022-11-29 to 2026-04-23	Nonparametric	Nonparametric	0.000878	0.000850	0.000650	0.00180	0.000288	0.328	2.01
20_3_5_123	MW-10	Part 115	Silver	mg/L	19	19	100%	2022-11-29 to 2026-04-23		Nonparametric	0.0000922	0.0000500	0.0000500	0.000250	0.0000837	0.909	1.54
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	19	12	63%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Nonparametric	0.000749	0.000620	0.000450	0.00140	0.000273	0.365	1.49
20_3_5_129	MW-10	Part 115	Zinc	mg/L	19	7	37%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	0.00837	0.00140	0.00120	0.0480	0.0129	1.54	2.14

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
21_2_3_105	MW-11	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	6.95	6.40	1.50	14.0	3.99	0.574	0.442
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	245	240	130	380	75.0	0.306	-0.0841
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	67.7	72.0	38.0	95.0	17	0.251	-0.160
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.742	0.690	0.210	1.60	0.440	0.593	0.778
21_2_3_120	MW-11	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.30	7.32	7.09	7.47	0.101	0.0139	-0.439
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	19	7	37%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	32.3	7.20	0.410	210	61.1	1.89	2.37
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1011	970	680	1800	248	0.245	1.73
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	19	14	74%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.000175	0.000100	0.0000500	0.000690	0.000168	0.960	2.15
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	0.00205	0.00160	0.000610	0.00440	0.00117	0.568	1.10
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.712	0.600	0.360	1.40	0.270	0.380	1.28
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	Lognormal	Nonparametric	0.0000819	0.0000520	0.0000520	0.000440	0.0000888	1.08	4.05
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	19	16	84%	2022-11-29 to 2026-04-22		Nonparametric	0.000142	0.0000750	0.0000320	0.000730	0.000172	1.21	2.67
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00147	0.000950	0.000450	0.00860	0.00186	1.26	3.56
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Lognormal	Lognormal	0.000706	0.000490	0.000230	0.00260	0.000674	0.954	2.28
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.742	0.690	0.210	1.60	0.440	0.593	0.778
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19	3	16%	2022-11-29 to 2026-04-22	Lognormal	Nonparametric	0.00676	0.000600	0.000170	0.0680	0.0167	2.47	3.28
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0772	0.0570	0.00590	0.220	0.0582	0.754	1.00
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	19	13	68%	2022-11-29 to 2026-04-22	Lognormal	Nonparametric	168	160	0.880	1100	236	1.40	3.70
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00166	0.00130	0.000430	0.00430	0.00117	0.709	1.04
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	18	7	39%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.989	0.881	0.460	1.76	0.360	0.364	0.847
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.000252	0.000220	0.000140	0.000710	0.000131	0.520	2.64
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-29 to 2026-04-22		Nonparametric	0.000130	0.0000750	0.0000750	0.000380	0.000115	0.885	1.81
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	2022-11-29 to 2026-04-22	Lognormal	Nonparametric	0.00193	0.000430	0.000200	0.0190	0.00440	2.28	3.66
21_2_5_114	MW-11	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	8.36	7.60	3.60	18.0	4.02	0.481	1.40
21_2_5_119	MW-11	Part 115	Nickel	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00267	0.00150	0.000650	0.0150	0.00354	1.33	2.99
21_2_5_123	MW-11	Part 115	Silver	mg/L	19	16	84%	2022-11-29 to 2026-04-22		Nonparametric	0.0000874	0.0000500	0.0000500	0.000250	0.0000691	0.791	1.66
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Nonparametric	0.000761	0.000620	0.000540	0.00300	0.000550	0.723	4.17
21_2_5_129	MW-11	Part 115	Zinc	mg/L	19	4	21%	2022-11-29 to 2026-04-22	Gamma; Normal	Gamma	0.0269	0.00850	0.00120	0.100	0.0309	1.15	1.13
22_2_3_105	MW-12	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.314	0.270	0.140	0.620	0.116	0.371	0.893
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	65.3	64.0	37.0	99.0	19.7	0.302	0.160
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	18.4	17.0	9.00	27.0	4.87	0.265	0.405
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal	Lognormal	0.317	0.290	0.200	0.540	0.0976	0.308	1.06
22_2_3_120	MW-12	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	7.66	7.67	7.00	8.32	0.315	0.0412	0.106
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	95.1	99.0	25.0	180	43.3	0.456	0.504
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	277	270	100	420	90.1	0.325	-0.224
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000716	0.000680	0.000170	0.00150	0.000379	0.529	0.723
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.00259	0.00200	0.00140	0.00640	0.00133	0.512	1.74
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.0514	0.0430	0.0170	0.140	0.0337	0.655	1.39
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-28 to 2026-04-20		Nonparametric	0.0000553	0.0000520	0.0000520	0.000100	0.0000113	0.204	3.88
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.00218	0.00140	0.000540	0.0110	0.00243	1.11	2.98
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	19	6	32%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000441	0.000410	0.000200	0.000990	0.000273	0.618	1.04
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.000462	0.000190	0.000100	0.00280	0.000652	1.41	2.93

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal	Lognormal	0.317	0.290	0.200	0.540	0.0976	0.308	1.06
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	19	6	32%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000288	0.000220	0.000100	0.000800	0.000170	0.588	1.73
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	19	1	5%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00368	0.00370	0.00190	0.00640	0.00145	0.393	0.232
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	19	12	63%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	122	160	0.830	230	75.5	0.619	-0.970
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.00752	0.00690	0.00420	0.0180	0.00297	0.395	2.53
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	19	11	58%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.652	0.614	0.459	1.09	0.157	0.241	1.32
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Gamma	0.00126	0.000890	0.000130	0.00450	0.00131	1.05	1.52
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-28 to 2026-04-20		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
22_2_5_111	MW-12	Part 115	Copper	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00158	0.00130	0.000550	0.00350	0.000884	0.558	1.22
22_2_5_114	MW-12	Part 115	Iron	mg/L	19	6	32%	2022-11-28 to 2026-04-20	Lognormal	Nonparametric	0.127	0.0470	0.0210	0.920	0.215	1.70	3.18
22_2_5_119	MW-12	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.00290	0.00260	0.00100	0.00730	0.00155	0.536	1.72
22_2_5_123	MW-12	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-20		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	19	6	32%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000942	0.000870	0.000460	0.00210	0.000405	0.430	1.50
22_2_5_129	MW-12	Part 115	Zinc	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.0107	0.00850	0.00270	0.0230	0.00605	0.566	0.988
26_1_3_105	MW-16	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.336	0.290	0.210	0.500	0.102	0.305	0.310
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	236	230	190	280	28.3	0.120	-0.223
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	19.4	20.0	14.0	23.0	3.13	0.161	-0.437
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	9	1	11%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.154	0.160	0.0550	0.190	0.0436	0.283	-1.60
26_1_3_120	MW-16	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	7.03	7.06	6.53	7.30	0.290	0.0412	-0.527
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	69.2	60.0	1.10	190	71.8	1.04	0.518
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	794	790	680	910	73.3	0.0923	-0.215
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	9	8	89%	2024-04-08 to 2026-04-23		Nonparametric	0.000101	0.000100	0.000100	0.000110	0.00000333	0.0330	3.00
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00868	0.00520	0.00120	0.0230	0.00749	0.863	1.08
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.253	0.260	0.180	0.380	0.0638	0.252	0.749
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-23		Nonparametric	0.0000576	0.0000520	0.0000520	0.000100	0.0000159	0.277	2.99
26_1_4_106	MW-16	Appendix IV	Cadmium	mg/L	9	9	100%	2024-04-08 to 2026-04-23		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000991	0.000730	0.000510	0.00220	0.000567	0.572	1.43
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Lognormal	Lognormal	0.000271	0.000210	0.000160	0.000630	0.000154	0.566	1.94
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	9	1	11%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.154	0.160	0.0550	0.190	0.0436	0.283	-1.60
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	9	6	67%	2024-04-08 to 2026-04-23		Nonparametric	0.000133	0.000100	0.000100	0.000280	0.0000626	0.470	2.04
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0214	0.0210	0.0150	0.0270	0.00416	0.194	-0.352
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	9	7	78%	2024-04-08 to 2026-04-23		Nonparametric	71.2	0.430	0.160	160	84.2	1.18	0.271
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	9	8	89%	2024-04-08 to 2026-04-23		Nonparametric	0.000283	0.000250	0.000250	0.000550	0.000100	0.353	3.00
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	9	4	44%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.739	0.644	0.525	1.16	0.206	0.278	1.39
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	9	1	11%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000146	0.000130	0.000100	0.000250	0.0000448	0.307	1.78
26_1_4_125	MW-16	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-23		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
26_1_5_111	MW-16	Part 115	Copper	mg/L	9	4	44%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000249	0.000230	0.000200	0.000350	0.0000575	0.231	0.777
26_1_5_114	MW-16	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Normal	Normal	7.90	7.10	0.990	13.0	3.89	0.493	-0.261
26_1_5_119	MW-16	Part 115	Nickel	mg/L	9	1	11%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.00259	0.00120	0.000550	0.00880	0.00290	1.12	1.64
26_1_5_123	MW-16	Part 115	Silver	mg/L	9	9	100%	2024-04-08 to 2026-04-23		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	9	3	33%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000712	0.000650	0.000380	0.00110	0.000217	0.305	0.671
26_1_5_129	MW-16	Part 115	Zinc	mg/L	9	2	22%	2024-04-08 to 2026-04-23	Gamma; Normal	Gamma	0.0112	0.0120	0.000870	0.0290	0.0110	0.986	0.603

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
27_1_3_105	MW-17	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.692	0.750	0.320	1.00	0.233	0.336	-0.265
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	133	130	98.0	160	19.2	0.144	-0.422
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Normal	Normal	32.2	34.0	10.0	47.0	11.0	0.343	-0.936
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.590	0.560	0.380	0.750	0.123	0.208	-0.233
27_1_3_120	MW-17	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.61	7.54	7.31	7.88	0.202	0.0265	0.141
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	14.3	4.80	0.580	50.0	17.9	1.25	1.24
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Normal	Normal	561	600	360	620	89.8	0.160	-1.78
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	9	7	78%	2024-04-08 to 2026-04-21		Nonparametric	0.000262	0.000100	0.000100	0.00150	0.000465	1.77	2.99
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00184	0.00180	0.00120	0.00260	0.000510	0.277	0.205
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.633	0.630	0.280	0.900	0.184	0.291	-0.385
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.0000592	0.0000520	0.0000520	0.000100	0.0000163	0.275	2.46
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.0000789	0.0000750	0.0000750	0.000110	0.0000117	0.148	3.00
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.000923	0.000760	0.000540	0.00240	0.000583	0.631	2.48
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000431	0.000330	0.000260	0.000890	0.000193	0.448	1.95
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.590	0.560	0.380	0.750	0.123	0.208	-0.233
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000407	0.000420	0.000100	0.000900	0.000287	0.705	0.669
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0307	0.0330	0.0160	0.0430	0.00825	0.269	-0.459
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	9	6	67%	2024-04-08 to 2026-04-21		Nonparametric	71.6	2.50	0.160	160	83.9	1.17	0.271
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Nonparametric	Nonparametric	0.00236	0.000790	0.000420	0.0130	0.00407	1.73	2.80
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	9	3	33%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.857	0.849	0.530	1.28	0.233	0.272	0.295
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Nonparametric	Nonparametric	0.000313	0.000170	0.000110	0.00150	0.000446	1.42	2.97
27_1_4_125	MW-17	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-21		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
27_1_5_111	MW-17	Part 115	Copper	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.00156	0.00100	0.000200	0.00630	0.00188	1.21	2.44
27_1_5_114	MW-17	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	4.24	4.40	1.90	6.60	1.24	0.293	-0.00382
27_1_5_119	MW-17	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Lognormal	Lognormal	0.00201	0.00110	0.000790	0.00860	0.00250	1.25	2.88
27_1_5_123	MW-17	Part 115	Silver	mg/L	9	9	100%	2024-04-08 to 2026-04-21		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000792	0.000770	0.000510	0.00130	0.000239	0.301	1.17
27_1_5_129	MW-17	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.0239	0.00870	0.00200	0.0740	0.0261	1.09	0.991
28_1_3_105	MW-18	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	3.02	3.00	1.50	4.40	0.957	0.317	0.0268
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	321	330	190	450	69.5	0.217	-0.0615
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	22.3	23.0	13.0	32.0	4.98	0.224	-0.0964
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	3.92	3.80	2.70	5.10	0.692	0.177	0.292
28_1_3_120	MW-18	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.19	7.18	7.02	7.31	0.0817	0.0114	-0.312
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	755	750	300	1200	243	0.322	0.200
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1296	1300	740	1800	278	0.215	-0.193
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.000304	0.000170	0.000100	0.00110	0.000294	0.966	1.94
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0268	0.0280	0.00970	0.0440	0.00852	0.318	0.120
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.0239	0.0210	0.0120	0.0880	0.0166	0.695	3.49
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	19	15	79%	2022-11-30 to 2026-04-22		Nonparametric	0.0000555	0.0000520	0.0000520	0.000100	0.0000110	0.199	4.06
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	19	7	37%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.000287	0.000180	0.0000750	0.00100	0.000287	0.998	1.60
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	19	16	84%	2022-11-30 to 2026-04-22		Nonparametric	0.000256	0.000200	0.000180	0.000880	0.000181	0.709	3.03
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.00249	0.00200	0.000800	0.00600	0.00143	0.576	1.46

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	3.92	3.80	2.70	5.10	0.692	0.177	0.292
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	19	12	63%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.000258	0.000220	0.000100	0.00110	0.000237	0.918	2.81
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0353	0.0370	0.0200	0.0450	0.00735	0.208	-0.445
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-30 to 2026-04-22		Nonparametric	118	160	0.160	160	72.0	0.610	-1.17
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0162	0.0150	0.00900	0.0280	0.00471	0.291	0.730
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Nonparametric	0.649	0.603	0.462	1.27	0.179	0.276	2.53
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.00105	0.000530	0.000140	0.00660	0.00150	1.43	3.12
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-22		Nonparametric	0.000128	0.0000750	0.0000750	0.000380	0.000114	0.893	1.93
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.000933	0.000550	0.000330	0.00410	0.000912	0.977	2.68
28_1_5_114	MW-18	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	6.06	5.80	1.80	10.0	1.90	0.313	-0.138
28_1_5_119	MW-18	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.00655	0.00560	0.00320	0.0110	0.00238	0.364	0.741
28_1_5_123	MW-18	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-22		Nonparametric	0.0000816	0.0000500	0.0000500	0.000250	0.0000749	0.918	2.04
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	19	17	89%	2022-11-30 to 2026-04-22		Nonparametric	0.000554	0.000620	0.000280	0.000620	0.000132	0.238	-1.60
28_1_5_129	MW-18	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.0648	0.0480	0.0160	0.210	0.0483	0.746	1.86
29_1_3_105	MW-19	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	2.13	2.00	1.50	3.40	0.500	0.235	0.798
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	452	460	360	550	55.9	0.124	-0.140
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	39.7	38.0	17.0	75.0	15.6	0.391	0.770
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1.84	1.90	1.40	2.30	0.263	0.143	0.0223
29_1_3_120	MW-19	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	6.82	6.85	6.39	7.07	0.157	0.0231	-0.962
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	964	940	600	1300	185	0.192	0.269
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1800	1700	1400	2200	252	0.140	0.397
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Nonparametric	0.000244	0.000100	0.0000500	0.000720	0.000218	0.897	0.991
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00443	0.00430	0.00100	0.00730	0.00200	0.451	-0.133
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0382	0.0370	0.0280	0.0500	0.00586	0.154	0.279
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	19	3	16%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0000935	0.0000850	0.0000520	0.000260	0.0000483	0.516	2.49
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	19	17	89%	2022-11-30 to 2026-04-23		Nonparametric	0.000130	0.0000750	0.0000320	0.000380	0.000113	0.866	1.44
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	2022-11-30 to 2026-04-23	Gamma; Lognormal	Gamma	0.000292	0.000250	0.000180	0.000880	0.000164	0.561	2.97
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	19	1	5%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000568	0.000460	0.000100	0.00130	0.000348	0.612	0.626
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1.84	1.90	1.40	2.30	0.263	0.143	0.0223
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	19	19	100%	2022-11-30 to 2026-04-23		Nonparametric	0.000376	0.000220	0.000100	0.00110	0.000364	0.968	1.23
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0881	0.0880	0.0720	0.110	0.0114	0.130	0.394
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	19	17	89%	2022-11-30 to 2026-04-23		Nonparametric	118	160	0.160	160	72.3	0.613	-1.17
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0118	0.0110	0.00390	0.0210	0.00473	0.400	0.550
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.763	0.690	0.514	1.17	0.221	0.290	0.650
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	19	11	58%	2022-11-30 to 2026-04-23	Nonparametric	Nonparametric	0.000407	0.000140	0.000100	0.00360	0.000813	1.99	3.77
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-23		Nonparametric	0.000206	0.0000750	0.0000750	0.000380	0.000153	0.743	0.335
29_1_5_111	MW-19	Part 115	Copper	mg/L	19	15	79%	2022-11-30 to 2026-04-23		Nonparametric	0.000263	0.000200	0.000200	0.00100	0.000187	0.710	3.81
29_1_5_114	MW-19	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	15.3	15.0	8.20	24.0	4.39	0.286	0.0550
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	2022-11-30 to 2026-04-23	Lognormal	Lognormal	0.00383	0.00250	0.00110	0.0170	0.00426	1.11	2.59
29_1_5_123	MW-19	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-23		Nonparametric	0.0000921	0.0000500	0.0000500	0.000250	0.0000838	0.910	1.54
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	19	14	74%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Nonparametric	0.000754	0.000620	0.000410	0.00310	0.000576	0.763	4.18
29_1_5_129	MW-19	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-23	Nonparametric	Nonparametric	0.0129	0.00170	0.00120	0.100	0.0280	2.17	2.63

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
30_1_3_105	MW-20	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.994	0.920	0.720	1.40	0.209	0.210	0.731
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Normal	Normal	127	130	58.0	170	22.7	0.179	-1.20
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	54.8	62.0	20.0	92.0	22.3	0.406	-0.0883
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.255	0.250	0.120	0.550	0.0820	0.321	2.57
30_1_3_120	MW-20	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.34	7.34	7.14	7.50	0.104	0.0141	-0.226
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	57.8	52.0	18.0	120	29.9	0.517	0.558
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Normal	Normal	635	650	340	840	107	0.168	-0.817
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.000130	0.000100	0.0000540	0.000650	0.000128	0.983	4.10
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00141	0.00130	0.00100	0.00190	0.000290	0.206	0.386
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.501	0.460	0.310	0.940	0.164	0.327	1.43
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-30 to 2026-04-22		Nonparametric	0.0000549	0.0000520	0.0000520	0.000100	0.0000110	0.201	4.22
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-30 to 2026-04-22		Nonparametric	0.0000803	0.0000750	0.0000320	0.000390	0.0000774	0.965	3.90
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	19	10	53%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.000302	0.000200	0.000180	0.00190	0.000388	1.29	4.33
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00117	0.00110	0.000690	0.00180	0.000296	0.252	0.467
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.255	0.250	0.120	0.550	0.0820	0.321	2.57
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.00221	0.00180	0.00120	0.00780	0.00143	0.649	3.59
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0559	0.0580	0.0290	0.0830	0.0156	0.279	-0.108
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	120	160	1.90	160	69.6	0.582	-1.17
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00422	0.00410	0.00240	0.00580	0.000829	0.197	-0.267
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	18	9	50%	2022-11-30 to 2026-04-22	Lognormal	Nonparametric	0.710	0.591	0.467	1.47	0.277	0.390	1.70
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	19	11	58%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.000162	0.000110	0.000100	0.000430	0.0000871	0.539	1.80
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-22		Nonparametric	0.0000768	0.0000750	0.0000750	0.000110	0.00000803	0.104	4.36
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.000519	0.000340	0.000200	0.00330	0.000695	1.34	3.95
30_1_5_114	MW-20	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	17.6	18.0	12.0	22.0	3.11	0.177	-0.386
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.00955	0.00910	0.00450	0.0340	0.00612	0.641	3.89
30_1_5_123	MW-20	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-22		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	19	19	100%	2022-11-30 to 2026-04-22		Nonparametric	0.000548	0.000620	0.000280	0.000620	0.000142	0.260	-1.54
30_1_5_129	MW-20	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.0376	0.0280	0.0130	0.110	0.0242	0.644	1.69
38_1_3_105	MW-28	Appendix III	Boron	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	3.16	2.70	0.340	6.10	2.12	0.672	0.0917
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	171	170	120	230	33.3	0.195	0.422
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	119	160	18.0	240	82.0	0.692	-0.0530
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1.11	0.970	0.400	2.00	0.510	0.459	0.239
38_1_3_120	MW-28	Appendix III	pH (field)	su	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	6.92	6.94	6.63	7.08	0.129	0.0187	-1.35
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	21.6	11.0	0.650	57.0	22.8	1.06	0.428
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	776	820	480	1100	207	0.267	-0.0338
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal	Gamma	0.000594	0.000280	0.000140	0.00210	0.000664	1.12	1.80
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00181	0.00140	0.000760	0.00380	0.000964	0.533	1.24
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Nonparametric	Nonparametric	0.549	0.700	0.150	0.760	0.240	0.437	-0.576
38_1_4_104	MW-28	Appendix IV	Beryllium	mg/L	9	9	100%	2024-04-07 to 2026-04-23		Nonparametric	0.0000573	0.0000520	0.0000520	0.000100	0.0000160	0.279	3.00
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	9	5	56%	2024-04-07 to 2026-04-23		Nonparametric	0.000543	0.0000750	0.0000750	0.00370	0.00120	2.21	2.87
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00978	0.00920	0.00180	0.0170	0.00525	0.537	0.0855
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00146	0.00130	0.000240	0.00310	0.00109	0.744	0.290

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1.11	0.970	0.400	2.00	0.510	0.459	0.239
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.00411	0.00150	0.000340	0.0150	0.00475	1.15	1.77
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.0838	0.0840	0.00460	0.150	0.0566	0.676	-0.185
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	9	3	33%	2024-04-07 to 2026-04-23	Gamma; Lognormal	Gamma	89.0	37.0	0.550	240	90.5	1.02	0.508
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00318	0.00210	0.000540	0.00870	0.00257	0.809	1.36
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	2024-04-07 to 2026-04-23	Lognormal	Lognormal	0.883	0.834	0.700	1.26	0.178	0.201	1.50
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Nonparametric	Nonparametric	0.000451	0.000290	0.000240	0.00170	0.000470	1.04	2.95
38_1_4_125	MW-28	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-07 to 2026-04-23		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
38_1_5_111	MW-28	Part 115	Copper	mg/L	9	1	11%	2024-04-07 to 2026-04-23	Gamma; Lognormal	Gamma	0.00214	0.000900	0.000200	0.00980	0.00311	1.45	2.32
38_1_5_114	MW-28	Part 115	Iron	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Normal	Normal	31.2	37.0	1.50	47.0	16.2	0.520	-0.966
38_1_5_119	MW-28	Part 115	Nickel	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.00383	0.00360	0.000460	0.00730	0.00268	0.700	0.105
38_1_5_123	MW-28	Part 115	Silver	mg/L	9	9	100%	2024-04-07 to 2026-04-23		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	9	2	22%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000694	0.000630	0.000500	0.00100	0.000143	0.206	1.15
38_1_5_129	MW-28	Part 115	Zinc	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.0765	0.0470	0.00140	0.280	0.0884	1.16	1.72
40_1_3_105	MW-30	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	1.91	1.90	1.30	3.50	0.454	0.238	2.41
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	495	460	62.0	960	175	0.353	0.416
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	404	190	82.0	1200	414	1.02	1.09
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.177	0.164	-1.25
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.05	7.06	6.48	7.25	0.176	0.0250	-1.96
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	835	860	440	1000	162	0.195	-1.12
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	2616	2300	1800	4300	742	0.284	1.35
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	0.000286	0.000100	0.0000500	0.00120	0.000298	1.04	1.78
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	0.00120	0.000580	0.000100	0.00800	0.00182	1.51	3.25
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0692	0.0660	0.0410	0.110	0.0214	0.309	0.549
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	0.0000809	0.0000520	0.0000520	0.000260	0.0000653	0.806	2.50
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.000138	0.0000750	0.0000320	0.000380	0.000125	0.908	1.33
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00915	0.00810	0.00310	0.0230	0.00462	0.505	1.47
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00385	0.00110	0.000470	0.0460	0.0103	2.68	4.24
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.177	0.164	-1.25
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	19	17	89%	2022-11-30 to 2026-04-21		Nonparametric	0.00359	0.000500	0.000100	0.0580	0.0132	3.67	4.35
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	0.138	0.120	0.0860	0.270	0.0417	0.301	1.91
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	19	17	89%	2022-11-30 to 2026-04-21		Nonparametric	130	160	0.160	390	95.3	0.733	0.499
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19	3	16%	2022-11-30 to 2026-04-21	Lognormal	Nonparametric	0.00422	0.00130	0.000320	0.0320	0.00791	1.87	3.04
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.713	0.695	0.445	1.12	0.175	0.246	0.530
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	2022-11-30 to 2026-04-21	Lognormal	Lognormal	0.000314	0.000200	0.000100	0.00150	0.000368	1.17	2.62
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.000268	0.000380	0.0000750	0.000380	0.000151	0.565	-0.593
40_1_5_111	MW-30	Part 115	Copper	mg/L	19	13	68%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000991	0.000200	0.000200	0.0130	0.00292	2.95	4.31
40_1_5_114	MW-30	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	3.85	2.90	0.870	17.0	3.76	0.975	2.67
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19	3	16%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00855	0.00180	0.000650	0.110	0.0247	2.89	4.27
40_1_5_123	MW-30	Part 115	Silver	mg/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.000106	0.0000500	0.0000500	0.000250	0.0000896	0.843	1.08
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	19	16	84%	2022-11-30 to 2026-04-21		Nonparametric	0.00208	0.000620	0.000280	0.0240	0.00537	2.59	4.21
40_1_5_129	MW-30	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Nonparametric	0.0128	0.00120	0.00110	0.100	0.0270	2.11	2.72

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
41_1_3_105	MW-31	Appendix III	Boron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	5.02	4.80	3.60	7.00	0.986	0.196	0.602
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	182	170	130	330	47.6	0.262	2.06
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	112	110	87.0	170	22.7	0.203	1.93
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	4.41	4.60	2.80	5.20	0.660	0.150	-1.30
41_1_3_120	MW-31	Appendix III	pH (field)	su	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.80	7.80	7.28	8.08	0.179	0.0229	-1.11
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Gamma	182	160	19.0	650	143	0.785	2.04
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	877	810	730	1500	199	0.227	2.38
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	19	7	37%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000290	0.000120	0.0000500	0.00110	0.000330	1.14	1.79
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.00187	0.00120	0.000730	0.00820	0.00183	0.980	2.97
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.191	0.180	0.0990	0.380	0.0707	0.370	1.16
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	19	16	84%	2022-12-01 to 2026-04-21		Nonparametric	0.0000589	0.0000520	0.0000520	0.000100	0.0000163	0.276	2.08
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.0000642	0.0000750	0.0000320	0.0000840	0.0000199	0.309	-1.13
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Gamma	0.00275	0.00230	0.00170	0.00650	0.00118	0.430	2.00
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.000236	0.000180	0.000100	0.00110	0.000226	0.959	3.43
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	4.41	4.60	2.80	5.20	0.660	0.150	-1.30
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	19	14	74%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000195	0.000220	0.000100	0.000450	0.000113	0.579	1.11
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0524	0.0520	0.0300	0.0830	0.0119	0.227	0.804
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	19	14	74%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	118	160	0.710	160	71.7	0.606	-1.17
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.00257	0.00130	0.000400	0.0130	0.00328	1.27	2.46
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Gamma	0.723	0.653	0.497	1.23	0.214	0.295	1.39
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	19	6	32%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.00223	0.000220	0.000100	0.0380	0.00866	3.89	4.35
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.0000757	0.0000750	0.0000750	0.0000880	0.00000298	0.0394	4.36
41_1_5_111	MW-31	Part 115	Copper	mg/L	19	10	53%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.000480	0.000200	0.000200	0.00320	0.000741	1.54	3.31
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Gamma	1.15	0.770	0.120	5.70	1.50	1.30	2.14
41_1_5_119	MW-31	Part 115	Nickel	mg/L	19	10	53%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Nonparametric	0.0525	0.000650	0.000650	0.640	0.153	2.91	3.61
41_1_5_123	MW-31	Part 115	Silver	mg/L	19	19	100%	2022-12-01 to 2026-04-21		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	19	12	63%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000625	0.000620	0.000450	0.000830	0.0000819	0.131	0.262
41_1_5_129	MW-31	Part 115	Zinc	mg/L	19	9	47%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	0.00605	0.00140	0.00120	0.0290	0.00861	1.42	1.98
42_1_3_105	MW-32	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	3.71	3.20	2.60	5.70	0.974	0.263	0.996
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	177	180	130	230	29.2	0.165	0.380
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	45.8	47.0	28.0	61.0	6.89	0.151	-0.449
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	1.46	1.50	1.10	1.90	0.209	0.143	0.0595
42_1_3_120	MW-32	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.59	7.59	7.35	7.75	0.0911	0.0120	-0.847
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	94.9	83.0	5.90	340	91.7	0.966	1.21
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	701	690	550	870	97.2	0.139	0.0851
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	0.000125	0.000100	0.0000500	0.000700	0.000141	1.12	4.20
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000604	0.000510	0.000380	0.00240	0.000443	0.733	4.11
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.628	0.570	0.0590	1.40	0.365	0.582	0.711
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.0000555	0.0000520	0.0000520	0.000100	0.0000115	0.208	3.66
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	19	16	84%	2022-11-30 to 2026-04-21		Nonparametric	0.0000913	0.0000750	0.0000320	0.000360	0.0000797	0.873	2.52
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000545	0.000380	0.000310	0.00300	0.000602	1.11	4.18
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000627	0.000410	0.000210	0.00280	0.000638	1.02	2.88

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	1.46	1.50	1.10	1.90	0.209	0.143	0.0595
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	19	14	74%	2022-11-30 to 2026-04-21	Lognormal; Normal	Nonparametric	0.000182	0.000120	0.000100	0.000420	0.000109	0.598	1.24
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.131	0.130	0.0940	0.200	0.0324	0.248	0.724
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	210	160	0.160	1900	416	1.98	4.14
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00367	0.00380	0.00110	0.00730	0.00143	0.389	0.481
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.668	0.614	0.497	0.985	0.134	0.200	0.991
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	0.000183	0.000100	0.000100	0.00100	0.000205	1.12	3.90
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	19	11	58%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00107	0.000200	0.000200	0.0160	0.00362	3.38	4.36
42_1_5_114	MW-32	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	16.7	17.0	11.0	25.0	3.76	0.225	0.360
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00283	0.00100	0.000680	0.0230	0.00540	1.91	3.41
42_1_5_123	MW-32	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.0000500	0.0000500	0.0000500	0.0000500	0	0	NA
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	19	19	100%	2022-11-30 to 2026-04-21		Nonparametric	0.000548	0.000620	0.000280	0.000620	0.000142	0.260	-1.54
42_1_5_129	MW-32	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.0173	0.00370	0.00220	0.0680	0.0229	1.32	1.29
46_1_3_105	MW-36	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.403	0.410	0.250	0.610	0.133	0.331	0.399
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	68.1	70.0	56.0	81.0	7.69	0.113	-0.0405
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	31.1	32.0	17.0	39.0	6.79	0.218	-1.12
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.699	0.670	0.530	0.920	0.131	0.188	0.896
46_1_3_120	MW-36	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	9.12	9.22	7.07	10.4	0.925	0.101	-1.22
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	11.8	10.0	5.70	21.0	6.23	0.530	0.746
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	423	420	330	480	47.4	0.112	-0.773
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Lognormal	Lognormal	0.00121	0.000800	0.000570	0.00290	0.000783	0.649	1.58
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Lognormal	Lognormal	0.0147	0.0120	0.00710	0.0290	0.00830	0.563	1.40
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.197	0.200	0.130	0.250	0.0439	0.223	-0.157
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.0000581	0.0000520	0.0000520	0.000100	0.0000159	0.273	2.89
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000268	0.000190	0.0000750	0.000820	0.000241	0.900	1.79
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00151	0.00130	0.000630	0.00310	0.000742	0.491	1.28
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Lognormal	Lognormal	0.000210	0.000180	0.000160	0.000280	0.0000495	0.236	0.620
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.699	0.670	0.530	0.920	0.131	0.188	0.896
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0182	0.0120	0.00450	0.0510	0.0153	0.840	1.42
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00926	0.00920	0.00420	0.0140	0.00317	0.342	-0.168
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	75.2	11.0	3.90	160	80.5	1.07	0.269
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0272	0.0250	0.0170	0.0420	0.00854	0.314	0.676
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	8	7	88%	2024-04-08 to 2026-04-21		Nonparametric	0.991	0.931	0.849	1.40	0.185	0.187	1.92
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000622	0.000640	0.000460	0.000900	0.000137	0.220	0.843
46_1_4_125	MW-36	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-21		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
46_1_5_111	MW-36	Part 115	Copper	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00671	0.00410	0.00180	0.0190	0.00562	0.837	1.46
46_1_5_114	MW-36	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.651	0.520	0.350	1.10	0.288	0.442	0.439
46_1_5_119	MW-36	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00616	0.00560	0.00320	0.0110	0.00230	0.374	1.24
46_1_5_123	MW-36	Part 115	Silver	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000163	0.000110	0.0000500	0.000570	0.000167	1.02	2.19
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00348	0.00320	0.00240	0.00520	0.00105	0.303	1.05
46_1_5_129	MW-36	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0129	0.0130	0.00380	0.0240	0.00797	0.617	0.266

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
47_1_3_105	MW-37	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	3.68	3.90	0.900	5.90	1.59	0.433	-0.467
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	148	140	110	200	26.4	0.178	0.625
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	18.5	15.0	3.00	40.0	10.8	0.585	0.826
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.512	0.500	0.390	0.630	0.0826	0.161	-0.180
47_1_3_120	MW-37	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.33	7.28	7.15	7.56	0.153	0.0208	0.256
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	211	230	110	320	77.0	0.365	-0.304
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	712	720	530	840	102	0.143	-0.581
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000353	0.000170	0.000100	0.00120	0.000361	1.02	1.97
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000661	0.000640	0.000460	0.00110	0.000194	0.293	1.50
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0618	0.0670	0.0350	0.0980	0.0216	0.349	0.308
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.0000600	0.0000520	0.0000520	0.000100	0.0000170	0.283	2.12
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	9	5	56%	2024-04-08 to 2026-04-21		Nonparametric	0.0000917	0.0000750	0.0000750	0.000130	0.0000224	0.244	0.892
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.000521	0.000360	0.000220	0.00150	0.000419	0.804	1.97
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000497	0.000510	0.000250	0.000760	0.000180	0.362	0.254
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.512	0.500	0.390	0.630	0.0826	0.161	-0.180
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	9	2	22%	2024-04-08 to 2026-04-21	Lognormal	Nonparametric	0.00132	0.000170	0.000100	0.0100	0.00326	2.47	2.98
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0176	0.0160	0.00930	0.0370	0.00862	0.491	1.53
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	72.6	6.50	1.10	160	82.9	1.14	0.270
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0108	0.00950	0.00640	0.0180	0.00402	0.372	0.617
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	2024-04-08 to 2026-04-21		Nonparametric	0.730	0.764	0.550	0.960	0.158	0.216	0.316
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	0.00252	0.00110	0.000470	0.00950	0.00295	1.17	2.01
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-21		Nonparametric	0.0000750	0.0000750	0.0000750	0.0000750	0	0	NA
47_1_5_111	MW-37	Part 115	Copper	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.0134	0.0120	0.00520	0.0410	0.0109	0.814	2.43
47_1_5_114	MW-37	Part 115	Iron	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	1.18	0.900	0.0260	3.40	1.25	1.05	0.624
47_1_5_119	MW-37	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00334	0.00350	0.00170	0.00520	0.00119	0.355	-0.0462
47_1_5_123	MW-37	Part 115	Silver	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.0000633	0.0000500	0.0000500	0.000170	0.0000400	0.632	3.00
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	9	5	56%	2024-04-08 to 2026-04-21		Nonparametric	0.000539	0.000620	0.000280	0.000730	0.000168	0.312	-0.774
47_1_5_129	MW-37	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0163	0.0170	0.00970	0.0280	0.00566	0.347	0.951
48_2_3_105	MW-38	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	1.47	1.60	0.0220	3.00	0.990	0.673	-0.0245
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Nonparametric	Nonparametric	208	96.0	72.0	630	221	1.07	1.60
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	34.2	34.0	10.0	58.0	19.3	0.563	-0.103
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.933	0.830	0.590	1.80	0.377	0.404	1.75
48_2_3_120	MW-38	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	9.61	9.17	8.33	13.0	1.36	0.142	2.39
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Normal	Normal	156	160	15.0	280	75.3	0.482	-0.284
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	763	620	350	1800	446	0.584	1.75
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	9	2	22%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000906	0.000680	0.000100	0.00180	0.000602	0.665	0.337
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00385	0.00330	0.000570	0.00710	0.00201	0.522	0.0311
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.151	0.110	0.0360	0.570	0.164	1.09	2.55
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	9	6	67%	2024-04-08 to 2026-04-21		Nonparametric	0.000108	0.0000520	0.0000520	0.000500	0.000148	1.37	2.96
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	9	4	44%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000208	0.000150	0.0000750	0.000490	0.000161	0.773	0.893
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00714	0.00440	0.00100	0.0160	0.00525	0.735	0.676
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.000777	0.000530	0.000250	0.00310	0.000891	1.15	2.75

(Table continues on next page)

[a] Non-detects are excluded from goodness-of-fit tests.

Table 1: Summary Statistics, Non-Detects Included *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit[a]	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.933	0.830	0.590	1.80	0.377	0.404	1.75
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.0233	0.00990	0.000500	0.0860	0.0297	1.28	1.61
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.110	0.120	0.0470	0.200	0.0457	0.414	0.530
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	82.5	32.0	9.30	160	73.8	0.895	0.241
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0119	0.00970	0.00100	0.0250	0.00787	0.659	0.612
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	8	5	62%	2024-04-08 to 2026-04-21		Nonparametric	1.45	1.29	0.748	2.65	0.640	0.441	0.911
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000893	0.000730	0.000120	0.00200	0.000565	0.632	0.887
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-21		Nonparametric	0.000143	0.0000750	0.0000750	0.000380	0.000134	0.942	1.62
48_2_5_111	MW-38	Part 115	Copper	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	0.00975	0.00450	0.000200	0.0310	0.0107	1.10	1.18
48_2_5_114	MW-38	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.802	0.390	0.0320	3.30	1.04	1.29	2.10
48_2_5_119	MW-38	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.00761	0.00530	0.000710	0.0270	0.00776	1.02	2.33
48_2_5_123	MW-38	Part 115	Silver	mg/L	9	6	67%	2024-04-08 to 2026-04-21		Nonparametric	0.000101	0.0000500	0.0000500	0.000250	0.0000765	0.761	1.25
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	9	2	22%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00729	0.00660	0.000280	0.0150	0.00508	0.697	0.260
48_2_5_129	MW-38	Part 115	Zinc	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0145	0.0150	0.000480	0.0450	0.0136	0.939	1.46

[a] Non-detects are excluded from goodness-of-fit tests.

Table 2: Summary Statistics, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	108	110	38.0	160	37.2	0.344	-0.263
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	239	230	130	420	85.2	0.357	0.781
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Normal	Normal	126	130	46.0	210	47.5	0.377	-0.361
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Normal	Normal	12	14.0	4.80	17.0	3.64	0.304	-0.535
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	7.62	7.73	6.02	7.81	0.397	0.0521	-4.06
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Gamma	441	400	8.80	1000	317	0.720	0.370
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	2363	2400	2100	2600	121	0.0513	-0.239
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000541	0.000250	0.000170	0.00290	0.000700	1.29	2.91
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00156	0.00140	0.000730	0.00410	0.000706	0.451	2.72
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.375	0.330	0.200	0.810	0.157	0.419	1.25
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.000215	0.000200	0.000110	0.000360	0.0000869	0.405	0.443
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Nonparametric	0.000475	0.000220	0.0000620	0.00190	0.000706	1.49	2.32
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Lognormal	Lognormal	0.00322	0.00190	0.00130	0.0220	0.00462	1.44	4.13
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00707	0.00120	0.000640	0.0840	0.0193	2.73	3.95
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Normal	Normal	12	14.0	4.80	17.0	3.64	0.304	-0.535
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Lognormal	Lognormal	0.00170	0.000820	0.000350	0.00750	0.00200	1.18	2.13
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	2.34	2.50	0.770	3.40	0.765	0.327	-0.430
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-29 to 2026-04-22		Nonparametric	2.70	1.99	0.520	6.30	2.66	0.986	1.08
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Lognormal	Lognormal	0.00143	0.000760	0.000330	0.00580	0.00168	1.18	2.22
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	19	13	68%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	1.00	1.06	0.601	1.28	0.274	0.273	-0.629
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000814	0.000680	0.000300	0.00260	0.000527	0.647	2.71
11_2_5_111	MW-01R	Part 115	Copper	mg/L	19	6	32%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000728	0.000350	0.000270	0.00280	0.000742	1.02	2.12
11_2_5_114	MW-01R	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Normal	Gamma	0.532	0.500	0.0590	1.40	0.421	0.791	0.516
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00755	0.00210	0.00120	0.0680	0.0157	2.08	3.56
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00230	0.00200	0.000670	0.00460	0.00117	0.506	0.582
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19	3	16%	2022-11-29 to 2026-04-22	Gamma	Gamma	0.0203	0.00585	0.00120	0.140	0.0352	1.74	2.96
12_2_3_105	MW-02	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	109	100	59.0	190	34.0	0.312	1.17
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	198	200	170	240	18.1	0.0916	0.350
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	140	140	67.0	160	20.2	0.144	-2.90
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	10.4	10.0	4.50	16.0	2.55	0.245	0.282
12_2_3_120	MW-02	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.21	7.18	7.06	7.45	0.101	0.0139	0.821
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	19	10	53%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	6.97	1.60	0.860	51.0	16.5	2.37	3.0
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1947	1900	1600	2600	274	0.140	1.01
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Gamma	0.000241	0.000205	0.000110	0.000630	0.000130	0.540	2.10
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	0.00745	0.00760	0.000440	0.0120	0.00239	0.321	-1.06
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.471	0.470	0.320	0.730	0.0927	0.197	0.740
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	19	2	11%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.000276	0.000280	0.000120	0.000520	0.000109	0.395	0.673
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	19	13	68%	2022-11-28 to 2026-04-22	Lognormal	Nonparametric	0.000138	0.0000780	0.0000410	0.000490	0.000174	1.26	2.38
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	0.0416	0.0450	0.000380	0.0680	0.0194	0.467	-0.381
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	0.00637	0.00630	0.000240	0.0120	0.00278	0.436	-0.135
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	10.4	10.0	4.50	16.0	2.55	0.245	0.282
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	19	1	5%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00292	0.00235	0.000450	0.00600	0.00165	0.566	0.556
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Gamma	1.50	1.50	0.870	2.50	0.405	0.270	1.11

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	2.74	2.30	1.20	5.40	1.67	0.609	1.23
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	0.00856	0.00620	0.00380	0.0290	0.00593	0.693	2.56
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	18	6	33%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1.53	1.40	0.708	3.35	0.774	0.506	1.25
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00131	0.00120	0.000500	0.00230	0.000494	0.377	0.343
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-28 to 2026-04-22		Nonparametric	0.000620	0.000620	0.000620	0.000620	NA	NA	NA
12_2_5_111	MW-02	Part 115	Copper	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00213	0.00200	0.000230	0.00470	0.00117	0.551	0.777
12_2_5_114	MW-02	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	23.7	23.0	18.0	31.0	3.93	0.166	0.313
12_2_5_119	MW-02	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma	Gamma	0.0274	0.0230	0.000930	0.0740	0.0165	0.602	1.37
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	19	1	5%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00407	0.00400	0.00120	0.00690	0.00180	0.443	-0.119
12_2_5_129	MW-02	Part 115	Zinc	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	0.0115	0.00330	0.00160	0.0440	0.0140	1.22	1.27
13_2_3_105	MW-03	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	4.06	4.10	3.30	4.50	0.337	0.0831	-0.671
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	356	350	290	430	38.2	0.107	0.143
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	148	140	72.0	300	55.4	0.374	1.27
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.699	0.620	0.520	1.60	0.237	0.340	3.34
13_2_3_120	MW-03	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	7.36	7.33	7.20	7.59	0.0905	0.0123	0.677
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Gamma	311	310	29.0	760	221	0.710	0.476
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	1979	1900	1600	2300	278	0.141	0.0349
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Nonparametric	0.000171	0.000120	0.0000870	0.000450	0.000139	0.811	2.25
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000912	0.000910	0.000490	0.00140	0.000262	0.287	0.0493
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Normal	Normal	0.356	0.370	0.130	0.500	0.0792	0.222	-1.10
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	19	12	63%	2022-11-28 to 2026-04-20	Lognormal	Nonparametric	0.0000914	0.0000720	0.0000530	0.000180	0.0000517	0.565	1.24
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-28 to 2026-04-20		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00441	0.00400	0.00300	0.00730	0.00118	0.269	0.914
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000761	0.000700	0.000370	0.00130	0.000295	0.388	0.659
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.699	0.620	0.520	1.60	0.237	0.340	3.34
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	19	18	95%	2022-11-28 to 2026-04-20		Nonparametric	0.000220	0.000220	0.000220	0.000220	NA	NA	NA
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.0368	0.0350	0.0260	0.0650	0.00923	0.251	1.78
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	48.4	0.580	0.390	240	107	2.21	2.24
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	19	13	68%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.000855	0.000785	0.000390	0.00140	0.000354	0.414	0.456
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	18	3	17%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	1.04	0.917	0.540	1.92	0.396	0.383	1.14
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19	3	16%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000402	0.000400	0.000170	0.000620	0.000104	0.259	-0.00822
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-28 to 2026-04-20		Nonparametric	0.000180	0.000180	0.000180	0.000180	NA	NA	NA
13_2_5_111	MW-03	Part 115	Copper	mg/L	19	9	47%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.000489	0.000300	0.000220	0.00100	0.000316	0.647	0.806
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	1.25	0.780	0.0980	5.90	1.46	1.17	2.17
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.00213	0.00135	0.000850	0.0150	0.00323	1.52	4.16
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	19	9	47%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00150	0.00145	0.00120	0.00220	0.000313	0.208	1.31
13_2_5_129	MW-03	Part 115	Zinc	mg/L	19	9	47%	2022-11-28 to 2026-04-20	Gamma; Normal	Gamma	0.0124	0.0155	0.000590	0.0250	0.0100	0.810	-0.0827
14_2_3_105	MW-04	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	3.68	4.00	0.680	4.70	0.992	0.269	-2.03
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	364	360	250	560	63.1	0.173	1.49
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Normal	Normal	135	130	11.0	300	78.4	0.580	0.101
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal; Normal	Normal	1.45	1.40	0.760	2.30	0.351	0.243	0.862
14_2_3_120	MW-04	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	7.31	7.34	6.78	7.66	0.178	0.0243	-1.23
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Normal	Normal	605	610	1.80	1100	219	0.362	-0.599

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Normal	Normal	1816	1800	1100	2200	308	0.170	-1.06
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.000270	0.000275	0.0000710	0.000460	0.000177	0.656	-0.0298
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.00132	0.00100	0.000470	0.00590	0.00121	0.917	3.39
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	0.131	0.120	0.0250	0.460	0.0850	0.650	3.46
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	19	16	84%	2022-11-28 to 2026-04-20		Nonparametric	0.0000710	0.0000660	0.0000540	0.0000930	0.0000200	0.281	1.06
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00340	0.00310	0.000740	0.00600	0.00145	0.427	-0.131
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal	Lognormal	0.000608	0.000360	0.000110	0.00250	0.000592	0.973	2.43
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal; Normal	Normal	1.45	1.40	0.760	2.30	0.351	0.243	0.862
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	19	15	79%	2022-11-28 to 2026-04-20		Nonparametric	0.000243	0.000210	0.000130	0.000420	0.000131	0.539	1.08
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.0580	0.0610	0.0310	0.0740	0.0136	0.234	-0.671
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-28 to 2026-04-20		Nonparametric	1.07	0.595	0.210	2.90	1.24	1.15	1.81
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-28 to 2026-04-20	Lognormal	Nonparametric	0.00299	0.00130	0.000370	0.0130	0.00405	1.36	1.85
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	1.05	1.08	0.634	1.55	0.343	0.325	-0.00271
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	19	5	26%	2022-11-28 to 2026-04-20	Lognormal	Lognormal	0.000317	0.000220	0.000140	0.00120	0.000270	0.852	3.05
14_2_5_111	MW-04	Part 115	Copper	mg/L	19	13	68%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.000625	0.000555	0.000270	0.00110	0.000381	0.609	0.251
14_2_5_114	MW-04	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	5.11	5.60	0.190	6.80	1.87	0.366	-1.81
14_2_5_119	MW-04	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Normal	Normal	0.0131	0.0130	0.00190	0.0220	0.00549	0.418	-0.487
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	19	10	53%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.000870	0.000840	0.000530	0.00120	0.000234	0.269	0.0287
14_2_5_129	MW-04	Part 115	Zinc	mg/L	19	10	53%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.00578	0.00510	0.00150	0.0130	0.00439	0.761	1.06
16_1_3_105	MW-06	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	9.42	9.70	6.40	12.0	1.63	0.173	-0.219
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	243	230	200	310	34.9	0.144	0.733
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	64.8	59.0	13.0	160	37.3	0.576	0.855
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1.22	1.20	0.980	1.60	0.190	0.155	0.438
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	7.26	7.28	6.42	7.51	0.226	0.0311	-3.07
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	16.3	9.60	0.980	100	22.9	1.40	3.38
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	1188	1200	980	1300	76.7	0.0645	-0.956
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	19	16	84%	2022-11-29 to 2026-04-22		Nonparametric	0.000235	0.000270	0.0000750	0.000360	0.000146	0.620	-1.02
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.000681	0.000650	0.000370	0.00100	0.000185	0.272	0.410
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	1.42	1.40	0.990	1.70	0.149	0.105	-0.932
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	19	16	84%	2022-11-29 to 2026-04-22		Nonparametric	0.000133	0.0000570	0.0000520	0.000290	0.000136	1.02	1.73
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	0.00154	0.00140	0.000950	0.00300	0.000528	0.342	1.38
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000646	0.000460	0.000330	0.00340	0.000680	1.05	4.08
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1.22	1.20	0.980	1.60	0.190	0.155	0.438
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	19	10	53%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.000227	0.000230	0.000110	0.000350	0.0000882	0.389	0.197
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.173	0.170	0.110	0.230	0.0370	0.214	0.0298
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.696	0.700	0.490	0.890	0.186	0.267	-0.0486
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	19	10	53%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000856	0.000280	0.000250	0.00510	0.00160	1.86	2.98
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	19	4	21%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	0.923	0.850	0.460	1.91	0.371	0.402	1.58
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	19	5	26%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000246	0.000220	0.000160	0.000470	0.0000862	0.351	1.94
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-29 to 2026-04-22		Nonparametric	0.000170	0.000170	0.000170	0.000170	NA	NA	NA
16_1_5_111	MW-06	Part 115	Copper	mg/L	19	13	68%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.000808	0.000320	0.000250	0.00330	0.00122	1.51	2.44
16_1_5_114	MW-06	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	15.8	16.0	4.60	31.0	6.83	0.431	0.458
16_1_5_119	MW-06	Part 115	Nickel	mg/L	19	6	32%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00118	0.000950	0.000750	0.00380	0.000798	0.676	3.43

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
16_1_5_123	MW-06	Part 115	Silver	mg/L	19	18	95%	2022-11-29 to 2026-04-22		Nonparametric	0.000160	0.000160	0.000160	0.000160	NA	NA	NA
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	19	14	74%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00125	0.000640	0.000460	0.00390	0.00149	1.19	2.21
16_1_5_129	MW-06	Part 115	Zinc	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.0278	0.00180	0.00120	0.0940	0.0375	1.35	0.820
17_1_3_105	MW-07	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	11	11.0	6.90	13.0	1.45	0.132	-1.23
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	148	150	120	170	12.7	0.0861	-0.464
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	14.7	14.0	13.0	17.0	1.33	0.0900	0.541
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	19	4	21%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.125	0.140	0.0680	0.220	0.0445	0.355	0.497
17_1_3_120	MW-07	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	6.88	6.88	6.58	7.05	0.115	0.0167	-1.20
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	26.6	28.0	15.0	48.0	9.23	0.346	0.467
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Normal	Normal	664	680	470	740	74.3	0.112	-1.53
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.0000710	0.0000710	0.0000710	0.0000710	NA	NA	NA
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000199	0.000200	0.000100	0.000290	0.0000433	0.218	-0.406
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.358	0.350	0.250	0.430	0.0430	0.120	-0.428
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	19	14	74%	2022-11-30 to 2026-04-21	Lognormal	Nonparametric	0.0000716	0.0000620	0.0000550	0.000120	0.0000275	0.384	2.08
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	0.000355	0.000330	0.000250	0.000740	0.000105	0.296	2.94
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000943	0.000970	0.000710	0.00120	0.000124	0.131	-0.0423
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	19	4	21%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.125	0.140	0.0680	0.220	0.0445	0.355	0.497
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00623	0.00570	0.00310	0.0100	0.00157	0.252	0.530
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.240	0.240	0.240	0.240	NA	NA	NA
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	0.994	0.965	0.570	2.36	0.401	0.403	2.63
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	19	9	47%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000133	0.000120	0.000100	0.000230	0.0000392	0.295	2.05
17_1_5_111	MW-07	Part 115	Copper	mg/L	19	14	74%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000318	0.000250	0.000210	0.000620	0.000170	0.535	2.15
17_1_5_114	MW-07	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	16.7	17.0	13.0	21.0	2.49	0.149	0.167
17_1_5_119	MW-07	Part 115	Nickel	mg/L	19	14	74%	2022-11-30 to 2026-04-21	Lognormal	Nonparametric	0.000296	0.000200	0.000160	0.000710	0.000234	0.789	2.14
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	19	12	63%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000756	0.000770	0.000590	0.000950	0.000128	0.169	-0.0392
17_1_5_129	MW-07	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-21	Gamma; Normal	Nonparametric	0.0161	0.0160	0.000750	0.0330	0.0119	0.741	-0.162
18_1_3_105	MW-08	Appendix III	Boron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	6.08	6.60	2.50	9.30	1.82	0.299	-0.262
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	132	130	85.0	160	19.9	0.150	-0.735
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	38.1	30.0	17.0	110	26.8	0.702	1.99
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Normal	Normal	0.958	1.00	0.400	1.40	0.262	0.274	-0.665
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	7.20	7.25	6.21	7.57	0.277	0.0384	-2.64
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	19	5	26%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	20.4	17.0	0.600	65.0	19.4	0.948	1.03
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	545	550	320	780	102	0.187	0.0340
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	19	11	58%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000146	0.000135	0.0000540	0.000280	0.0000706	0.483	0.839
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Normal	Normal	0.0408	0.0440	0.00690	0.0910	0.0186	0.456	0.577
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	1.19	1.20	0.580	1.50	0.251	0.211	-0.924
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.000120	0.000120	0.000120	0.000120	NA	NA	NA
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000762	0.000700	0.000420	0.00150	0.000269	0.353	1.18
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000490	0.000450	0.000220	0.000980	0.000195	0.398	0.844
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Normal	Normal	0.958	1.00	0.400	1.40	0.262	0.274	-0.665
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	19	12	63%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000713	0.000220	0.000100	0.00290	0.00100	1.41	2.25
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0967	0.0970	0.0630	0.140	0.0248	0.256	0.363

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	19	17	89%	2022-12-01 to 2026-04-21		Nonparametric	0.925	0.925	0.650	1.20	0.389	0.420	NA
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	19	1	5%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00166	0.00165	0.000310	0.00410	0.00105	0.636	0.592
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19	5	26%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	1.08	0.974	0.550	2.10	0.414	0.383	1.19
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	2022-12-01 to 2026-04-21	Lognormal	Lognormal	0.000168	0.000140	0.000110	0.000340	0.0000740	0.439	1.82
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.000130	0.000130	0.000130	0.000130	NA	NA	NA
18_1_5_111	MW-08	Part 115	Copper	mg/L	19	6	32%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000408	0.000370	0.000210	0.000800	0.000163	0.399	1.31
18_1_5_114	MW-08	Part 115	Iron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	17.6	18.0	6.60	32.0	6.83	0.388	0.330
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.00278	0.00150	0.000850	0.0130	0.00285	1.02	2.82
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	19	16	84%	2022-12-01 to 2026-04-21		Nonparametric	0.000500	0.000300	0.000290	0.000910	0.000355	0.710	1.73
18_1_5_129	MW-08	Part 115	Zinc	mg/L	19	3	16%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.0365	0.00310	0.00130	0.160	0.0521	1.43	1.31
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	5.50	5.70	2.30	6.90	0.952	0.173	-2.09
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	407	420	230	530	91.9	0.226	-0.399
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	29.9	18.0	11.0	93.0	23	0.767	1.51
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	2.48	2.50	1.60	2.90	0.330	0.133	-0.970
19_2_3_120	MW-09	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.17	7.20	6.88	7.52	0.147	0.0205	0.174
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Normal	Normal	578	610	83.0	1300	316	0.547	0.295
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1568	1600	740	2400	415	0.265	-0.115
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	19	12	63%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.000178	0.000160	0.0000730	0.000370	0.000102	0.572	1.16
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Normal	Normal	0.00215	0.00230	0.000820	0.00330	0.000639	0.298	-0.418
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	0.330	0.200	0.0460	2.40	0.518	1.57	3.93
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	19	14	74%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.0000828	0.0000640	0.0000570	0.000150	0.0000392	0.474	1.83
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-28 to 2026-04-22		Nonparametric	0.000680	0.000680	0.000680	0.000680	NA	NA	NA
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00227	0.00220	0.00110	0.00320	0.000571	0.252	-0.117
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	0.000808	0.000530	0.000230	0.00640	0.00137	1.70	4.20
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	2.48	2.50	1.60	2.90	0.330	0.133	-0.970
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	19	17	89%	2022-11-28 to 2026-04-22		Nonparametric	0.000240	0.000240	0.000140	0.000340	0.000141	0.589	NA
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Lognormal	Lognormal	0.317	0.310	0.260	0.540	0.0602	0.190	2.99
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Nonparametric	901	4.00	0.290	2400	1236	1.37	0.642
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0227	0.0230	0.00970	0.0330	0.00630	0.277	-0.251
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	19	17	89%	2022-11-28 to 2026-04-22		Nonparametric	0.708	0.708	0.626	0.789	0.115	0.163	NA
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	2022-11-28 to 2026-04-22	Nonparametric	Nonparametric	0.000531	0.000280	0.000120	0.00350	0.000789	1.49	3.74
19_2_5_111	MW-09	Part 115	Copper	mg/L	19	11	58%	2022-11-28 to 2026-04-22	Lognormal	Nonparametric	0.00106	0.000385	0.000240	0.00380	0.00125	1.18	1.85
19_2_5_114	MW-09	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal; Normal	Normal	19.6	19.0	5.80	26.0	5.23	0.267	-0.883
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Gamma	0.0117	0.00330	0.000720	0.100	0.0230	1.96	3.51
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	19	15	79%	2022-11-28 to 2026-04-22		Nonparametric	0.000450	0.000405	0.000280	0.000710	0.000191	0.424	1.09
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	2022-11-28 to 2026-04-22	Gamma; Lognormal	Gamma	0.0202	0.00910	0.00150	0.120	0.0340	1.69	3.00
20_3_3_105	MW-10	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Normal	Normal	18.8	21.0	4.50	30.0	8.06	0.428	-0.425
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	289	270	160	590	106	0.367	1.57
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	321	310	92.0	700	182	0.566	0.840
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	5.32	5.60	2.70	7.70	1.44	0.271	-0.372
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-23	Nonparametric	Nonparametric	7.75	7.78	7.05	8.81	0.359	0.0463	1.07
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	551	410	140	1700	386	0.701	1.60
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Lognormal	Lognormal	2016	1800	1500	3200	467	0.232	1.27

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-29 to 2026-04-23		Nonparametric	0.000172	0.000120	0.000110	0.000340	0.000112	0.650	1.96
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000809	0.000730	0.000200	0.00200	0.000511	0.632	1.03
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.346	0.320	0.140	0.720	0.161	0.465	1.01
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	19	9	47%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0000973	0.0000765	0.0000520	0.000220	0.0000529	0.544	1.64
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00398	0.00410	0.00130	0.00850	0.00183	0.459	0.688
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	0.000491	0.000390	0.000100	0.00180	0.000373	0.759	2.81
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	5.32	5.60	2.70	7.70	1.44	0.271	-0.372
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	19	17	89%	2022-11-29 to 2026-04-23		Nonparametric	0.000145	0.000145	0.000120	0.000170	0.0000354	0.244	NA
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	0.934	0.940	0.540	1.60	0.230	0.246	0.992
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	19	16	84%	2022-11-29 to 2026-04-23		Nonparametric	634	0.370	0.200	1900	1097	1.73	1.73
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00285	0.00270	0.000650	0.00720	0.00170	0.596	0.996
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	19	15	79%	2022-11-29 to 2026-04-23		Nonparametric	0.971	0.896	0.732	1.36	0.278	0.287	1.29
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	0.000356	0.000330	0.000190	0.000830	0.000134	0.376	2.77
20_3_5_111	MW-10	Part 115	Copper	mg/L	19	16	84%	2022-11-29 to 2026-04-23		Nonparametric	0.000723	0.000490	0.000380	0.00130	0.000502	0.695	1.64
20_3_5_114	MW-10	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Normal	4.89	4.50	2.30	7.70	1.69	0.346	0.189
20_3_5_119	MW-10	Part 115	Nickel	mg/L	19	7	37%	2022-11-29 to 2026-04-23	Nonparametric	Nonparametric	0.00101	0.000885	0.000760	0.00180	0.000289	0.285	2.10
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	19	12	63%	2022-11-29 to 2026-04-23	Gamma; Lognormal; Normal	Nonparametric	0.000967	0.00100	0.000450	0.00140	0.000369	0.382	-0.425
20_3_5_129	MW-10	Part 115	Zinc	mg/L	19	7	37%	2022-11-29 to 2026-04-23	Gamma; Lognormal	Gamma	0.0126	0.00775	0.00120	0.0480	0.0149	1.19	1.50
21_2_3_105	MW-11	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	6.95	6.40	1.50	14.0	3.99	0.574	0.442
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	245	240	130	380	75.0	0.306	-0.0841
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	67.7	72.0	38.0	95.0	17	0.251	-0.160
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.742	0.690	0.210	1.60	0.440	0.593	0.778
21_2_3_120	MW-11	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.30	7.32	7.09	7.47	0.101	0.0139	-0.439
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	19	7	37%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	50.4	15.5	1.80	210	71.7	1.42	1.71
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1011	970	680	1800	248	0.245	1.73
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	19	14	74%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.000326	0.000280	0.0000820	0.000690	0.000222	0.680	1.27
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Gamma	0.00205	0.00160	0.000610	0.00440	0.00117	0.568	1.10
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.712	0.600	0.360	1.40	0.270	0.380	1.28
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	Lognormal	Nonparametric	0.000147	0.0000945	0.0000540	0.000440	0.000145	0.986	2.36
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	19	16	84%	2022-11-29 to 2026-04-22		Nonparametric	0.000413	0.000350	0.000160	0.000730	0.000290	0.702	0.935
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00147	0.000950	0.000450	0.00860	0.00186	1.26	3.56
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Lognormal	Lognormal	0.000706	0.000490	0.000230	0.00260	0.000674	0.954	2.28
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.742	0.690	0.210	1.60	0.440	0.593	0.778
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19	3	16%	2022-11-29 to 2026-04-22	Lognormal	Nonparametric	0.00791	0.000900	0.000170	0.0680	0.0181	2.28	2.98
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0772	0.0570	0.00590	0.220	0.0582	0.754	1.00
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	19	13	68%	2022-11-29 to 2026-04-22	Lognormal	Nonparametric	186	2.00	0.880	1100	448	2.40	2.45
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00178	0.00150	0.000430	0.00430	0.00118	0.666	0.898
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	18	7	39%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1.03	0.852	0.460	1.76	0.418	0.406	0.645
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.000258	0.000215	0.000140	0.000710	0.000143	0.554	2.37
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-29 to 2026-04-22		Nonparametric	0.000210	0.000210	0.000210	0.000210	NA	NA	NA
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	2022-11-29 to 2026-04-22	Lognormal	Nonparametric	0.00239	0.000470	0.000200	0.0190	0.00488	2.04	3.25
21_2_5_114	MW-11	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Gamma; Lognormal; Normal	Normal	8.36	7.60	3.60	18.0	4.02	0.481	1.40
21_2_5_119	MW-11	Part 115	Nickel	mg/L	19	0	0%	2022-11-29 to 2026-04-22	Nonparametric	Nonparametric	0.00267	0.00150	0.000650	0.0150	0.00354	1.33	2.99

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
21_2_5_123	MW-11	Part 115	Silver	mg/L	19	16	84%	2022-11-29 to 2026-04-22		Nonparametric	0.000153	0.000150	0.000140	0.000170	0.0000153	0.0996	0.935
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	Gamma; Lognormal	Nonparametric	0.00107	0.000650	0.000540	0.00300	0.000962	0.902	2.29
21_2_5_129	MW-11	Part 115	Zinc	mg/L	19	4	21%	2022-11-29 to 2026-04-22	Gamma; Normal	Gamma	0.0337	0.0320	0.00180	0.100	0.0315	0.934	0.834
22_2_3_105	MW-12	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.314	0.270	0.140	0.620	0.116	0.371	0.893
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	65.3	64.0	37.0	99.0	19.7	0.302	0.160
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	18.4	17.0	9.00	27.0	4.87	0.265	0.405
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal	Lognormal	0.317	0.290	0.200	0.540	0.0976	0.308	1.06
22_2_3_120	MW-12	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	7.66	7.67	7.00	8.32	0.315	0.0412	0.106
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	95.1	99.0	25.0	180	43.3	0.456	0.504
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	277	270	100	420	90.1	0.325	-0.224
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000716	0.000680	0.000170	0.00150	0.000379	0.529	0.723
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.00259	0.00200	0.00140	0.00640	0.00133	0.512	1.74
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.0514	0.0430	0.0170	0.140	0.0337	0.655	1.39
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-28 to 2026-04-20		Nonparametric	0.0000660	0.0000660	0.0000660	0.0000660	NA	NA	NA
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.00218	0.00140	0.000540	0.0110	0.00243	1.11	2.98
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	19	6	32%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000552	0.000480	0.000210	0.000990	0.000263	0.476	0.692
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.000591	0.000335	0.000110	0.00280	0.000721	1.22	2.55
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Lognormal	Lognormal	0.317	0.290	0.200	0.540	0.0976	0.308	1.06
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	19	6	32%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.000329	0.000260	0.000140	0.000800	0.000191	0.580	1.27
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	19	1	5%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00378	0.00390	0.00190	0.00640	0.00142	0.376	0.156
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	19	12	63%	2022-11-28 to 2026-04-20	Nonparametric	Nonparametric	57.0	1.20	0.830	230	96.4	1.69	1.41
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.00752	0.00690	0.00420	0.0180	0.00297	0.395	2.53
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	19	11	58%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Nonparametric	0.708	0.659	0.487	1.09	0.196	0.277	1.00
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Gamma	0.00126	0.000890	0.000130	0.00450	0.00131	1.05	1.52
22_2_5_111	MW-12	Part 115	Copper	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00158	0.00130	0.000550	0.00350	0.000884	0.558	1.22
22_2_5_114	MW-12	Part 115	Iron	mg/L	19	6	32%	2022-11-28 to 2026-04-20	Lognormal	Nonparametric	0.155	0.0590	0.0210	0.920	0.251	1.62	2.80
22_2_5_119	MW-12	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.00290	0.00260	0.00100	0.00730	0.00155	0.536	1.72
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	19	6	32%	2022-11-28 to 2026-04-20	Gamma; Lognormal; Normal	Normal	0.00109	0.000960	0.000460	0.00210	0.000412	0.378	1.19
22_2_5_129	MW-12	Part 115	Zinc	mg/L	19	0	0%	2022-11-28 to 2026-04-20	Gamma; Lognormal	Gamma	0.0107	0.00850	0.00270	0.0230	0.00605	0.566	0.988
26_1_3_105	MW-16	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.336	0.290	0.210	0.500	0.102	0.305	0.310
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	236	230	190	280	28.3	0.120	-0.223
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	19.4	20.0	14.0	23.0	3.13	0.161	-0.437
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	9	1	11%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.166	0.170	0.130	0.190	0.0245	0.147	-0.358
26_1_3_120	MW-16	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	7.03	7.06	6.53	7.30	0.290	0.0412	-0.527
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	88.5	90.0	1.10	190	70.1	0.792	0.0345
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	794	790	680	910	73.3	0.0923	-0.215
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	9	8	89%	2024-04-08 to 2026-04-23		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00868	0.00520	0.00120	0.0230	0.00749	0.863	1.08
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.253	0.260	0.180	0.380	0.0638	0.252	0.749
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-23		Nonparametric	0.0000540	0.0000540	0.0000540	0.0000540	NA	NA	NA
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000991	0.000730	0.000510	0.00220	0.000567	0.572	1.43
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Lognormal	Lognormal	0.000271	0.000210	0.000160	0.000630	0.000154	0.566	1.94
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	9	1	11%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.166	0.170	0.130	0.190	0.0245	0.147	-0.358

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	9	6	67%	2024-04-08 to 2026-04-23		Nonparametric	0.000200	0.000190	0.000130	0.000280	0.0000755	0.377	0.586
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0214	0.0210	0.0150	0.0270	0.00416	0.194	-0.352
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	9	7	78%	2024-04-08 to 2026-04-23		Nonparametric	0.360	0.360	0.290	0.430	0.0990	0.275	NA
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	9	8	89%	2024-04-08 to 2026-04-23		Nonparametric	0.000550	0.000550	0.000550	0.000550	NA	NA	NA
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	9	4	44%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.725	0.712	0.525	0.991	0.172	0.237	0.839
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	9	1	11%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000151	0.000140	0.000110	0.000250	0.0000442	0.292	1.87
26_1_5_111	MW-16	Part 115	Copper	mg/L	9	4	44%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000288	0.000300	0.000230	0.000350	0.0000482	0.167	0.00268
26_1_5_114	MW-16	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-23	Gamma; Normal	Normal	7.90	7.10	0.990	13.0	3.89	0.493	-0.261
26_1_5_119	MW-16	Part 115	Nickel	mg/L	9	1	11%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.00284	0.00145	0.000550	0.00880	0.00300	1.06	1.48
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	9	3	33%	2024-04-08 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000758	0.000710	0.000380	0.00110	0.000261	0.344	-0.0403
26_1_5_129	MW-16	Part 115	Zinc	mg/L	9	2	22%	2024-04-08 to 2026-04-23	Gamma; Normal	Gamma	0.0140	0.0130	0.000870	0.0290	0.0109	0.779	0.129
27_1_3_105	MW-17	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.692	0.750	0.320	1.00	0.233	0.336	-0.265
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	133	130	98.0	160	19.2	0.144	-0.422
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Normal	Normal	32.2	34.0	10.0	47.0	11.0	0.343	-0.936
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.590	0.560	0.380	0.750	0.123	0.208	-0.233
27_1_3_120	MW-17	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.61	7.54	7.31	7.88	0.202	0.0265	0.141
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	16.0	6.05	0.790	50.0	18.3	1.14	1.07
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Normal	Normal	561	600	360	620	89.8	0.160	-1.78
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	9	7	78%	2024-04-08 to 2026-04-21		Nonparametric	0.000830	0.000830	0.000160	0.00150	0.000948	1.14	NA
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00184	0.00180	0.00120	0.00260	0.000510	0.277	0.205
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.633	0.630	0.280	0.900	0.184	0.291	-0.385
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.0000690	0.0000690	0.0000690	0.0000690	NA	NA	NA
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.000923	0.000760	0.000540	0.00240	0.000583	0.631	2.48
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000431	0.000330	0.000260	0.000890	0.000193	0.448	1.95
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.590	0.560	0.380	0.750	0.123	0.208	-0.233
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000445	0.000435	0.000140	0.000900	0.000281	0.631	0.543
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0307	0.0330	0.0160	0.0430	0.00825	0.269	-0.459
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	9	6	67%	2024-04-08 to 2026-04-21		Nonparametric	1.40	1.40	0.290	2.50	1.11	0.791	-0.0136
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Nonparametric	Nonparametric	0.00236	0.000790	0.000420	0.0130	0.00407	1.73	2.80
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	9	3	33%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.796	0.773	0.530	1.28	0.269	0.337	1.29
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Nonparametric	Nonparametric	0.000313	0.000170	0.000110	0.00150	0.000446	1.42	2.97
27_1_5_111	MW-17	Part 115	Copper	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.00172	0.00105	0.000330	0.00630	0.00193	1.12	2.37
27_1_5_114	MW-17	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	4.24	4.40	1.90	6.60	1.24	0.293	-0.00382
27_1_5_119	MW-17	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Lognormal	Lognormal	0.00201	0.00110	0.000790	0.00860	0.00250	1.25	2.88
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000792	0.000770	0.000510	0.00130	0.000239	0.301	1.17
27_1_5_129	MW-17	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.0239	0.00870	0.00200	0.0740	0.0261	1.09	0.991
28_1_3_105	MW-18	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	3.02	3.00	1.50	4.40	0.957	0.317	0.0268
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	321	330	190	450	69.5	0.217	-0.0615
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	22.3	23.0	13.0	32.0	4.98	0.224	-0.0964
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	3.92	3.80	2.70	5.10	0.692	0.177	0.292
28_1_3_120	MW-18	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.19	7.18	7.02	7.31	0.0817	0.0114	-0.312
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	755	750	300	1200	243	0.322	0.200

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	1296	1300	740	1800	278	0.215	-0.193
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.000293	0.000155	0.000100	0.00110	0.000309	1.06	2.16
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0268	0.0280	0.00970	0.0440	0.00852	0.318	0.120
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.0239	0.0210	0.0120	0.0880	0.0166	0.695	3.49
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	19	15	79%	2022-11-30 to 2026-04-22		Nonparametric	0.0000565	0.0000565	0.0000530	0.0000600	0.00000351	0.0622	0.00000000000000379
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	19	7	37%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.000378	0.000260	0.0000890	0.00100	0.000320	0.847	1.12
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	19	16	84%	2022-11-30 to 2026-04-22		Nonparametric	0.000587	0.000630	0.000250	0.000880	0.000317	0.541	-0.603
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.00249	0.00200	0.000800	0.00600	0.00143	0.576	1.46
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	3.92	3.80	2.70	5.10	0.692	0.177	0.292
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	19	12	63%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	0.000203	0.000160	0.000140	0.000320	0.0000727	0.359	0.713
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0353	0.0370	0.0200	0.0450	0.00735	0.208	-0.445
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-30 to 2026-04-22		Nonparametric	1.00	0.980	0.860	1.20	0.142	0.141	1.01
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0162	0.0150	0.00900	0.0280	0.00471	0.291	0.730
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Nonparametric	0.690	0.618	0.462	1.27	0.234	0.339	2.24
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.00105	0.000530	0.000140	0.00660	0.00150	1.43	3.12
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-22		Nonparametric	0.000160	0.000160	0.000160	0.000160	NA	NA	NA
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.000933	0.000550	0.000330	0.00410	0.000912	0.977	2.68
28_1_5_114	MW-18	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	6.06	5.80	1.80	10.0	1.90	0.313	-0.138
28_1_5_119	MW-18	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.00655	0.00560	0.00320	0.0110	0.00238	0.364	0.741
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	19	17	89%	2022-11-30 to 2026-04-22		Nonparametric	0.000335	0.000335	0.000310	0.000360	0.0000354	0.106	NA
28_1_5_129	MW-18	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.0648	0.0480	0.0160	0.210	0.0483	0.746	1.86
29_1_3_105	MW-19	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	2.13	2.00	1.50	3.40	0.500	0.235	0.798
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	452	460	360	550	55.9	0.124	-0.140
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	39.7	38.0	17.0	75.0	15.6	0.391	0.770
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1.84	1.90	1.40	2.30	0.263	0.143	0.0223
29_1_3_120	MW-19	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	6.82	6.85	6.39	7.07	0.157	0.0231	-0.962
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	964	940	600	1300	185	0.192	0.269
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1800	1700	1400	2200	252	0.140	0.397
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Nonparametric	0.000422	0.000445	0.000110	0.000720	0.000237	0.562	-0.187
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00443	0.00430	0.00100	0.00730	0.00200	0.451	-0.133
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0382	0.0370	0.0280	0.0500	0.00586	0.154	0.279
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	19	3	16%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0000883	0.0000850	0.0000570	0.000150	0.0000262	0.297	0.810
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	19	17	89%	2022-11-30 to 2026-04-23		Nonparametric	0.000275	0.000275	0.000250	0.000300	0.0000354	0.129	NA
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	2022-11-30 to 2026-04-23	Gamma; Lognormal	Gamma	0.000284	0.000270	0.000200	0.000530	0.0000869	0.306	2.10
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	19	1	5%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000594	0.000480	0.000130	0.00130	0.000338	0.570	0.640
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1.84	1.90	1.40	2.30	0.263	0.143	0.0223
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0881	0.0880	0.0720	0.110	0.0114	0.130	0.394
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	19	17	89%	2022-11-30 to 2026-04-23		Nonparametric	0.220	0.220	0.180	0.260	0.0566	0.257	NA
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.0118	0.0110	0.00390	0.0210	0.00473	0.400	0.550
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.808	0.794	0.514	1.17	0.243	0.300	0.198
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	19	11	58%	2022-11-30 to 2026-04-23	Nonparametric	Nonparametric	0.000645	0.000145	0.000120	0.00360	0.00121	1.88	2.69
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-23		Nonparametric	0.000120	0.000120	0.000120	0.000120	NA	NA	NA
29_1_5_111	MW-19	Part 115	Copper	mg/L	19	15	79%	2022-11-30 to 2026-04-23		Nonparametric	0.000300	0.000290	0.000220	0.000400	0.0000891	0.297	0.255

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
29_1_5_114	MW-19	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Normal	15.3	15.0	8.20	24.0	4.39	0.286	0.0550
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	2022-11-30 to 2026-04-23	Lognormal	Lognormal	0.00386	0.00245	0.00110	0.0170	0.00438	1.14	2.51
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	19	14	74%	2022-11-30 to 2026-04-23	Gamma; Lognormal; Normal	Nonparametric	0.000634	0.000600	0.000410	0.000940	0.000196	0.309	0.934
29_1_5_129	MW-19	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-23	Nonparametric	Nonparametric	0.0254	0.00420	0.00170	0.100	0.0378	1.49	1.49
30_1_3_105	MW-20	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.994	0.920	0.720	1.40	0.209	0.210	0.731
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Normal	Normal	127	130	58.0	170	22.7	0.179	-1.20
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	54.8	62.0	20.0	92.0	22.3	0.406	-0.0883
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.255	0.250	0.120	0.550	0.0820	0.321	2.57
30_1_3_120	MW-20	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	7.34	7.34	7.14	7.50	0.104	0.0141	-0.226
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	57.8	52.0	18.0	120	29.9	0.517	0.558
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Normal	Normal	635	650	340	840	107	0.168	-0.817
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.000153	0.000110	0.0000540	0.000650	0.000168	1.10	3.09
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00141	0.00130	0.00100	0.00190	0.000290	0.206	0.386
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.501	0.460	0.310	0.940	0.164	0.327	1.43
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-30 to 2026-04-22		Nonparametric	0.0000590	0.0000590	0.0000590	0.0000590	NA	NA	NA
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-30 to 2026-04-22		Nonparametric	0.000390	0.000390	0.000390	0.000390	NA	NA	NA
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	19	10	53%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.000417	0.000220	0.000190	0.00190	0.000557	1.34	2.98
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00117	0.00110	0.000690	0.00180	0.000296	0.252	0.467
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.255	0.250	0.120	0.550	0.0820	0.321	2.57
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.00221	0.00180	0.00120	0.00780	0.00143	0.649	3.59
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.0559	0.0580	0.0290	0.0830	0.0156	0.279	-0.108
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Nonparametric	6.16	5.30	1.90	11.0	3.36	0.546	0.402
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	0.00422	0.00410	0.00240	0.00580	0.000829	0.197	-0.267
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	18	9	50%	2022-11-30 to 2026-04-22	Lognormal	Nonparametric	0.754	0.612	0.479	1.47	0.325	0.431	1.67
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	19	11	58%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.000171	0.000120	0.000100	0.000430	0.000117	0.683	1.98
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-22		Nonparametric	0.000110	0.000110	0.000110	0.000110	NA	NA	NA
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	2022-11-30 to 2026-04-22	Lognormal	Lognormal	0.000556	0.000340	0.000200	0.00330	0.000727	1.31	3.76
30_1_5_114	MW-20	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal; Normal	Normal	17.6	18.0	12.0	22.0	3.11	0.177	-0.386
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Nonparametric	Nonparametric	0.00955	0.00910	0.00450	0.0340	0.00612	0.641	3.89
30_1_5_129	MW-20	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-22	Gamma; Lognormal	Gamma	0.0376	0.0280	0.0130	0.110	0.0242	0.644	1.69
38_1_3_105	MW-28	Appendix III	Boron	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	3.16	2.70	0.340	6.10	2.12	0.672	0.0917
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	171	170	120	230	33.3	0.195	0.422
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	119	160	18.0	240	82.0	0.692	-0.0530
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1.11	0.970	0.400	2.00	0.510	0.459	0.239
38_1_3_120	MW-28	Appendix III	pH (field)	su	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	6.92	6.94	6.63	7.08	0.129	0.0187	-1.35
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	27.3	36.0	0.650	57.0	22.9	0.838	-0.145
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	776	820	480	1100	207	0.267	-0.0338
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal	Gamma	0.000594	0.000280	0.000140	0.00210	0.000664	1.12	1.80
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00181	0.00140	0.000760	0.00380	0.000964	0.533	1.24
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Nonparametric	Nonparametric	0.549	0.700	0.150	0.760	0.240	0.437	-0.576
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	9	5	56%	2024-04-07 to 2026-04-23		Nonparametric	0.00113	0.000365	0.0000800	0.00370	0.00173	1.54	1.87
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00978	0.00920	0.00180	0.0170	0.00525	0.537	0.0855
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00146	0.00130	0.000240	0.00310	0.00109	0.744	0.290

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	1.11	0.970	0.400	2.00	0.510	0.459	0.239
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.00411	0.00150	0.000340	0.0150	0.00475	1.15	1.77
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.0838	0.0840	0.00460	0.150	0.0566	0.676	-0.185
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	9	3	33%	2024-04-07 to 2026-04-23	Gamma; Lognormal	Gamma	53.5	19.8	0.550	240	92.6	1.73	2.31
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.00318	0.00210	0.000540	0.00870	0.00257	0.809	1.36
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	2024-04-07 to 2026-04-23	Lognormal	Lognormal	0.859	0.803	0.700	1.26	0.203	0.237	2.09
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Nonparametric	Nonparametric	0.000451	0.000290	0.000240	0.00170	0.000470	1.04	2.95
38_1_5_111	MW-28	Part 115	Copper	mg/L	9	1	11%	2024-04-07 to 2026-04-23	Gamma; Lognormal	Gamma	0.00238	0.00110	0.000370	0.00980	0.00323	1.36	2.19
38_1_5_114	MW-28	Part 115	Iron	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Normal	Normal	31.2	37.0	1.50	47.0	16.2	0.520	-0.966
38_1_5_119	MW-28	Part 115	Nickel	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.00383	0.00360	0.000460	0.00730	0.00268	0.700	0.105
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	9	2	22%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Normal	0.000716	0.000710	0.000500	0.00100	0.000158	0.221	0.727
38_1_5_129	MW-28	Part 115	Zinc	mg/L	9	0	0%	2024-04-07 to 2026-04-23	Gamma; Lognormal; Normal	Gamma	0.0765	0.0470	0.00140	0.280	0.0884	1.16	1.72
40_1_3_105	MW-30	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	1.91	1.90	1.30	3.50	0.454	0.238	2.41
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	495	460	62.0	960	175	0.353	0.416
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	404	190	82.0	1200	414	1.02	1.09
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.177	0.164	-1.25
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.05	7.06	6.48	7.25	0.176	0.0250	-1.96
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	835	860	440	1000	162	0.195	-1.12
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	2616	2300	1800	4300	742	0.284	1.35
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	0.000682	0.000565	0.000400	0.00120	0.000360	0.528	1.53
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	0.00131	0.000630	0.000120	0.00800	0.00190	1.45	3.09
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0692	0.0660	0.0410	0.110	0.0214	0.309	0.549
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	0.0000735	0.0000655	0.0000530	0.000110	0.0000252	0.343	1.60
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.000320	0.000320	0.000320	0.000320	NA	NA	NA
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00915	0.00810	0.00310	0.0230	0.00462	0.505	1.47
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00385	0.00110	0.000470	0.0460	0.0103	2.68	4.24
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	1.08	1.10	0.570	1.40	0.177	0.164	-1.25
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	19	17	89%	2022-11-30 to 2026-04-21		Nonparametric	0.0299	0.0299	0.00170	0.0580	0.0398	1.33	NA
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	0.138	0.120	0.0860	0.270	0.0417	0.301	1.91
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	19	17	89%	2022-11-30 to 2026-04-21		Nonparametric	195	195	0.230	390	276	1.41	NA
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19	3	16%	2022-11-30 to 2026-04-21	Lognormal	Nonparametric	0.00459	0.00125	0.000320	0.0320	0.00859	1.87	2.77
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.671	0.604	0.445	0.911	0.169	0.252	0.252
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	2022-11-30 to 2026-04-21	Lognormal	Lognormal	0.000282	0.000145	0.000100	0.00150	0.000392	1.39	3.23
40_1_5_111	MW-30	Part 115	Copper	mg/L	19	13	68%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00244	0.000325	0.000200	0.0130	0.00518	2.12	2.45
40_1_5_114	MW-30	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Gamma	3.85	2.90	0.870	17.0	3.76	0.975	2.67
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19	3	16%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00988	0.00185	0.000700	0.110	0.0269	2.72	3.92
40_1_5_123	MW-30	Part 115	Silver	mg/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.000120	0.000120	0.000120	0.000120	NA	NA	NA
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	19	16	84%	2022-11-30 to 2026-04-21		Nonparametric	0.00830	0.000470	0.000420	0.0240	0.0136	1.64	1.73
40_1_5_129	MW-30	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-21	Gamma; Lognormal	Nonparametric	0.0252	0.00530	0.00110	0.100	0.0362	1.44	1.59
41_1_3_105	MW-31	Appendix III	Boron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	5.02	4.80	3.60	7.00	0.986	0.196	0.602
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	182	170	130	330	47.6	0.262	2.06
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	112	110	87.0	170	22.7	0.203	1.93
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	4.41	4.60	2.80	5.20	0.660	0.150	-1.30

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
41_1_3_120	MW-31	Appendix III	pH (field)	su	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.80	7.80	7.28	8.08	0.179	0.0229	-1.11
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Gamma	182	160	19.0	650	143	0.785	2.04
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	877	810	730	1500	199	0.227	2.38
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	19	7	37%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000406	0.000320	0.0000690	0.00110	0.000373	0.918	1.16
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.00187	0.00120	0.000730	0.00820	0.00183	0.980	2.97
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.191	0.180	0.0990	0.380	0.0707	0.370	1.16
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	19	16	84%	2022-12-01 to 2026-04-21		Nonparametric	0.0000800	0.0000900	0.0000540	0.0000960	0.0000227	0.284	-1.60
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.0000840	0.0000840	0.0000840	0.0000840	NA	NA	NA
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Gamma	0.00275	0.00230	0.00170	0.00650	0.00118	0.430	2.00
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.000261	0.000180	0.000100	0.00110	0.000239	0.914	3.26
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	4.41	4.60	2.80	5.20	0.660	0.150	-1.30
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	19	14	74%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000340	0.000310	0.000250	0.000450	0.0000990	0.291	0.363
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0524	0.0520	0.0300	0.0830	0.0119	0.227	0.804
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	19	14	74%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	1.62	1.60	0.710	2.70	0.716	0.441	0.549
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.00257	0.00130	0.000400	0.0130	0.00328	1.27	2.46
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Gamma	0.726	0.653	0.502	1.23	0.239	0.330	1.56
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	19	6	32%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.00317	0.000150	0.000100	0.0380	0.0105	3.31	3.60
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	19	18	95%	2022-12-01 to 2026-04-21		Nonparametric	0.0000880	0.0000880	0.0000880	0.0000880	NA	NA	NA
41_1_5_111	MW-31	Part 115	Copper	mg/L	19	10	53%	2022-12-01 to 2026-04-21	Nonparametric	Nonparametric	0.000791	0.000330	0.000230	0.00320	0.00101	1.28	2.15
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Gamma	1.15	0.770	0.120	5.70	1.50	1.30	2.14
41_1_5_119	MW-31	Part 115	Nickel	mg/L	19	10	53%	2022-12-01 to 2026-04-21	Gamma; Lognormal	Nonparametric	0.110	0.0110	0.00140	0.640	0.213	1.94	2.39
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	19	12	63%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000633	0.000640	0.000450	0.000830	0.000142	0.224	-0.0501
41_1_5_129	MW-31	Part 115	Zinc	mg/L	19	9	47%	2022-12-01 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	0.0104	0.00910	0.00140	0.0290	0.0102	0.977	1.10
42_1_3_105	MW-32	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	3.71	3.20	2.60	5.70	0.974	0.263	0.996
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	177	180	130	230	29.2	0.165	0.380
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	45.8	47.0	28.0	61.0	6.89	0.151	-0.449
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	1.46	1.50	1.10	1.90	0.209	0.143	0.0595
42_1_3_120	MW-32	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.59	7.59	7.35	7.75	0.0911	0.0120	-0.847
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	94.9	83.0	5.90	340	91.7	0.966	1.21
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	701	690	550	870	97.2	0.139	0.0851
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	0.000245	0.000106	0.0000670	0.000700	0.000305	1.25	1.93
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000604	0.000510	0.000380	0.00240	0.000443	0.733	4.11
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.628	0.570	0.0590	1.40	0.365	0.582	0.711
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-30 to 2026-04-21		Nonparametric	0.0000700	0.0000700	0.0000700	0.0000700	NA	NA	NA
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	19	16	84%	2022-11-30 to 2026-04-21		Nonparametric	0.000250	0.000200	0.000190	0.000360	0.0000954	0.382	1.71
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000545	0.000380	0.000310	0.00300	0.000602	1.11	4.18
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.000627	0.000410	0.000210	0.00280	0.000638	1.02	2.88
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	1.46	1.50	1.10	1.90	0.209	0.143	0.0595
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	19	14	74%	2022-11-30 to 2026-04-21	Lognormal; Normal	Nonparametric	0.000290	0.000380	0.000120	0.000420	0.000147	0.507	-0.573
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.131	0.130	0.0940	0.200	0.0324	0.248	0.724
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	476	0.920	0.340	1900	950	2.0	2.0
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00367	0.00380	0.00110	0.00730	0.00143	0.389	0.481
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.739	0.707	0.550	0.985	0.141	0.191	0.395

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	19	15	79%	2022-11-30 to 2026-04-21		Nonparametric	0.000342	0.000135	0.000100	0.00100	0.000439	1.28	1.99
42_1_5_111	MW-32	Part 115	Copper	mg/L	19	11	58%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00227	0.000315	0.000200	0.0160	0.00555	2.45	2.83
42_1_5_114	MW-32	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Gamma; Lognormal; Normal	Normal	16.7	17.0	11.0	25.0	3.76	0.225	0.360
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.00283	0.00100	0.000680	0.0230	0.00540	1.91	3.41
42_1_5_129	MW-32	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-21	Nonparametric	Nonparametric	0.0173	0.00370	0.00220	0.0680	0.0229	1.32	1.29
46_1_3_105	MW-36	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.403	0.410	0.250	0.610	0.133	0.331	0.399
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	68.1	70.0	56.0	81.0	7.69	0.113	-0.0405
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	31.1	32.0	17.0	39.0	6.79	0.218	-1.12
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.699	0.670	0.530	0.920	0.131	0.188	0.896
46_1_3_120	MW-36	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	9.12	9.22	7.07	10.4	0.925	0.101	-1.22
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	11.8	10.0	5.70	21.0	6.23	0.530	0.746
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	423	420	330	480	47.4	0.112	-0.773
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Lognormal	Lognormal	0.00121	0.000800	0.000570	0.00290	0.000783	0.649	1.58
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Lognormal	Lognormal	0.0147	0.0120	0.00710	0.0290	0.00830	0.563	1.40
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.197	0.200	0.130	0.250	0.0439	0.223	-0.157
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.0000590	0.0000590	0.0000590	0.0000590	NA	NA	NA
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000292	0.000195	0.0000940	0.000820	0.000246	0.842	1.70
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00151	0.00130	0.000630	0.00310	0.000742	0.491	1.28
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Lognormal	Lognormal	0.000210	0.000180	0.000160	0.000280	0.0000495	0.236	0.620
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.699	0.670	0.530	0.920	0.131	0.188	0.896
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0182	0.0120	0.00450	0.0510	0.0153	0.840	1.42
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00926	0.00920	0.00420	0.0140	0.00317	0.342	-0.168
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.32	6.30	3.90	11.0	3.01	0.411	0.304
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0272	0.0250	0.0170	0.0420	0.00854	0.314	0.676
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	8	7	88%	2024-04-08 to 2026-04-21		Nonparametric	0.943	0.943	0.943	0.943	NA	NA	NA
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000622	0.000640	0.000460	0.000900	0.000137	0.220	0.843
46_1_5_111	MW-36	Part 115	Copper	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00671	0.00410	0.00180	0.0190	0.00562	0.837	1.46
46_1_5_114	MW-36	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.651	0.520	0.350	1.10	0.288	0.442	0.439
46_1_5_119	MW-36	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00616	0.00560	0.00320	0.0110	0.00230	0.374	1.24
46_1_5_123	MW-36	Part 115	Silver	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000177	0.000110	0.0000510	0.000570	0.000172	0.975	2.07
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00348	0.00320	0.00240	0.00520	0.00105	0.303	1.05
46_1_5_129	MW-36	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0129	0.0130	0.00380	0.0240	0.00797	0.617	0.266
47_1_3_105	MW-37	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	3.68	3.90	0.900	5.90	1.59	0.433	-0.467
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	148	140	110	200	26.4	0.178	0.625
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	18.5	15.0	3.00	40.0	10.8	0.585	0.826
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.512	0.500	0.390	0.630	0.0826	0.161	-0.180
47_1_3_120	MW-37	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	7.33	7.28	7.15	7.56	0.153	0.0208	0.256
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	211	230	110	320	77.0	0.365	-0.304
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	712	720	530	840	102	0.143	-0.581
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000385	0.000200	0.000110	0.00120	0.000373	0.968	1.85
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000661	0.000640	0.000460	0.00110	0.000194	0.293	1.50
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0618	0.0670	0.0350	0.0980	0.0216	0.349	0.308
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.0000760	0.0000760	0.0000760	0.0000760	NA	NA	NA

(Table continues on next page)

Table 2: Summary Statistics, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	Distributions Fit	Recommended Distribution	Mean	Median	Minimum	Maximum	SD	CV	Skewness
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	9	5	56%	2024-04-08 to 2026-04-21		Nonparametric	0.000112	0.000115	0.0000900	0.000130	0.0000171	0.152	-0.753
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.000521	0.000360	0.000220	0.00150	0.000419	0.804	1.97
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000497	0.000510	0.000250	0.000760	0.000180	0.362	0.254
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.512	0.500	0.390	0.630	0.0826	0.161	-0.180
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	9	2	22%	2024-04-08 to 2026-04-21	Lognormal	Nonparametric	0.00167	0.000170	0.000110	0.0100	0.00368	2.20	2.63
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0176	0.0160	0.00930	0.0370	0.00862	0.491	1.53
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	2.76	1.80	1.10	6.50	2.18	0.790	1.82
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0108	0.00950	0.00640	0.0180	0.00402	0.372	0.617
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	2024-04-08 to 2026-04-21		Nonparametric	0.734	0.720	0.550	0.946	0.176	0.239	0.343
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	0.00252	0.00110	0.000470	0.00950	0.00295	1.17	2.01
47_1_5_111	MW-37	Part 115	Copper	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.0134	0.0120	0.00520	0.0410	0.0109	0.814	2.43
47_1_5_114	MW-37	Part 115	Iron	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	1.33	1.30	0.0260	3.40	1.25	0.941	0.421
47_1_5_119	MW-37	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00334	0.00350	0.00170	0.00520	0.00119	0.355	-0.0462
47_1_5_123	MW-37	Part 115	Silver	mg/L	9	8	89%	2024-04-08 to 2026-04-21		Nonparametric	0.000170	0.000170	0.000170	0.000170	NA	NA	NA
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	9	5	56%	2024-04-08 to 2026-04-21		Nonparametric	0.000522	0.000530	0.000300	0.000730	0.000210	0.401	-0.0867
47_1_5_129	MW-37	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0163	0.0170	0.00970	0.0280	0.00566	0.347	0.951
48_2_3_105	MW-38	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	1.47	1.60	0.0220	3.00	0.990	0.673	-0.0245
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Nonparametric	Nonparametric	208	96.0	72.0	630	221	1.07	1.60
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	34.2	34.0	10.0	58.0	19.3	0.563	-0.103
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.933	0.830	0.590	1.80	0.377	0.404	1.75
48_2_3_120	MW-38	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	9.61	9.17	8.33	13.0	1.36	0.142	2.39
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Normal	Normal	156	160	15.0	280	75.3	0.482	-0.284
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	763	620	350	1800	446	0.584	1.75
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	9	2	22%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00108	0.00110	0.000310	0.00180	0.000560	0.519	0.0474
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00385	0.00330	0.000570	0.00710	0.00201	0.522	0.0311
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.151	0.110	0.0360	0.570	0.164	1.09	2.55
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	9	6	67%	2024-04-08 to 2026-04-21		Nonparametric	0.0000707	0.0000670	0.0000550	0.0000900	0.0000178	0.252	0.888
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	9	4	44%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Nonparametric	0.000253	0.000160	0.0000960	0.000490	0.000169	0.666	0.789
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00791	0.00580	0.00280	0.0160	0.00505	0.638	0.632
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.000777	0.000530	0.000250	0.00310	0.000891	1.15	2.75
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.933	0.830	0.590	1.80	0.377	0.404	1.75
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.0261	0.0124	0.00210	0.0860	0.0304	1.17	1.48
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.110	0.120	0.0470	0.200	0.0457	0.414	0.530
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	20.5	21.0	9.30	32.0	9.44	0.461	0.00574
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0119	0.00970	0.00100	0.0250	0.00787	0.659	0.612
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	8	5	62%	2024-04-08 to 2026-04-21		Nonparametric	0.915	0.917	0.748	1.08	0.166	0.181	-0.0542
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.000893	0.000730	0.000120	0.00200	0.000565	0.632	0.887
48_2_5_111	MW-38	Part 115	Copper	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Gamma	0.0109	0.00540	0.000980	0.0310	0.0108	0.983	1.06
48_2_5_114	MW-38	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.802	0.390	0.0320	3.30	1.04	1.29	2.10
48_2_5_119	MW-38	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	Gamma; Lognormal	Gamma	0.00761	0.00530	0.000710	0.0270	0.00776	1.02	2.33
48_2_5_123	MW-38	Part 115	Silver	mg/L	9	6	67%	2024-04-08 to 2026-04-21		Nonparametric	0.000135	0.000150	0.0000650	0.000190	0.0000638	0.473	-0.999
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	9	2	22%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.00913	0.00810	0.00490	0.0150	0.00406	0.445	0.591
48_2_5_129	MW-38	Part 115	Zinc	mg/L	9	1	11%	2024-04-08 to 2026-04-21	Gamma; Lognormal; Normal	Normal	0.0163	0.0150	0.00380	0.0450	0.0135	0.826	1.49

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	19	0	0%	0.950	0.391	0.118	0.690	0.913	0.083	0.173	0.143	0.147	>= 0.10	0.470	>= 0.10	0.402	Gamma; Lognormal; Normal	Normal
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	19	0	0%	0.927	0.153	0.127	0.585	0.967	0.708	0.109	0.804	0.116	>= 0.10	0.274	>= 0.10	0.346	Gamma; Lognormal; Normal	Normal
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.941	0.278	0.167	0.176	0.867	0.013	0.218	0.018	0.193	0.05 <= p < 0.10	0.855	0.01 <= p < 0.05	0.463	Gamma; Normal	Normal
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	19	0	0%	0.918	0.102	0.236	0.007	0.878	0.020	0.247	0.003	0.251	< 0.01	0.881	0.01 <= p < 0.05	0.356	Normal	Normal
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	0.421	0.000	0.345	0.000	0.401	0.000	0.364	0.000	0.348	< 0.01	4.302	< 0.01	0.058	Nonparametric	Nonparametric
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.935	0.215	0.128	0.571	0.863	0.011	0.190	0.070	0.129	>= 0.10	0.399	>= 0.10	1.208	Gamma; Lognormal; Normal	Gamma
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.946	0.332	0.198	0.047	0.941	0.280	0.206	0.033	0.207	0.01 <= p < 0.05	0.629	0.05 <= p < 0.10	0.052	Gamma; Lognormal; Normal	Normal
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19	3	16%	0.573	0.000	0.363	0.000	0.807	0.003	0.269	0.003	0.326	< 0.01	1.743	< 0.01	0.825	Nonparametric	Nonparametric
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	19	0	0%	0.701	0.000	0.273	0.001	0.877	0.019	0.219	0.017	0.231	0.01 <= p < 0.05	1.170	< 0.01	0.365	Nonparametric	Nonparametric
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	19	0	0%	0.889	0.031	0.158	0.244	0.958	0.532	0.123	0.626	0.143	>= 0.10	0.361	>= 0.10	0.389	Gamma; Lognormal; Normal	Normal
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	19	2	11%	0.894	0.053	0.169	0.223	0.915	0.121	0.155	0.337	0.164	>= 0.10	0.578	>= 0.10	0.410	Gamma; Lognormal; Normal	Normal
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	19	13	68%	0.637	0.001	0.409	0.002	0.930	0.580	0.217	0.502	0.302	>= 0.10	0.559	>= 0.10	1.199	Gamma; Lognormal	Nonparametric
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.394	0.000	0.355	0.000	0.745	0.000	0.189	0.072	0.256	< 0.01	2.487	< 0.01	0.648	Lognormal	Lognormal
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	0.361	0.000	0.448	0.000	0.721	0.000	0.241	0.005	0.358	< 0.01	3.610	< 0.01	1.220	Nonparametric	Nonparametric
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.918	0.102	0.236	0.007	0.878	0.020	0.247	0.003	0.251	< 0.01	0.881	0.01 <= p < 0.05	0.356	Normal	Normal
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	19	2	11%	0.664	0.000	0.323	0.000	0.902	0.072	0.186	0.122	0.240	0.01 <= p < 0.05	1.256	< 0.01	0.893	Lognormal	Lognormal
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	19	0	0%	0.949	0.381	0.115	0.737	0.892	0.035	0.156	0.261	0.147	>= 0.10	0.553	>= 0.10	0.392	Gamma; Lognormal; Normal	Normal
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.144		Nonparametric
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	0.628	0.000	0.288	0.001	0.891	0.048	0.205	0.056	0.256	< 0.01	1.240	< 0.01	0.871	Lognormal	Lognormal
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	19	13	68%	0.897	0.358	0.248	0.296	0.874	0.243	0.284	0.137	0.283	>= 0.10	0.437	>= 0.10	0.302	Gamma; Lognormal; Normal	Nonparametric
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	19	0	0%	0.638	0.000	0.360	0.000	0.861	0.010	0.262	0.001	0.301	< 0.01	1.627	< 0.01	0.467	Nonparametric	Nonparametric
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_5_111	MW-01R	Part 115	Copper	mg/L	19	6	32%	0.675	0.000	0.339	0.000	0.793	0.006	0.266	0.012	0.310	< 0.01	1.402	< 0.01	0.781	Nonparametric	Nonparametric
11_2_5_114	MW-01R	Part 115	Iron	mg/L	19	0	0%	0.902	0.053	0.192	0.064	0.900	0.050	0.199	0.047	0.169	>= 0.10	0.673	0.05 <= p < 0.10	1.040	Gamma; Normal	Gamma
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	0.440	0.000	0.403	0.000	0.734	0.000	0.308	0.000	0.385	< 0.01	3.166	< 0.01	1.081	Nonparametric	Nonparametric
11_2_5_123	MW-01R	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	19	2	11%	0.923	0.163	0.216	0.034	0.934	0.257	0.133	0.587	0.151	>= 0.10	0.396	>= 0.10	0.557	Gamma; Lognormal; Normal	Normal
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19	3	16%	0.596	0.000	0.294	0.001	0.873	0.031	0.217	0.042	0.221	0.05 <= p < 0.10	0.916	0.01 <= p < 0.05	1.620	Gamma	Gamma
12_2_3_105	MW-02	Appendix III	Boron	mg/L	19	0	0%	0.863	0.011	0.277	0.000	0.932	0.191	0.220	0.016	0.238	< 0.01	0.799	0.01 <= p < 0.05	0.293	Lognormal	Lognormal
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	19	0	0%	0.939	0.255	0.169	0.164	0.944	0.314	0.178	0.118	0.180	>= 0.10	0.519	>= 0.10	0.091	Gamma; Lognormal; Normal	Normal
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.661	0.000	0.335	0.000	0.555	0.000	0.366	0.000	0.358	< 0.01	2.675	< 0.01	0.188	Nonparametric	Nonparametric
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	19	0	0%	0.907	0.064	0.251	0.003	0.857	0.009	0.203	0.038	0.219	0.01 <= p < 0.05	0.912	0.01 <= p < 0.05	0.266	Normal	Normal
12_2_3_120	MW-02	Appendix III	pH (field)	su	19	0	0%	0.940	0.266	0.133	0.500	0.943	0.296	0.133	0.507	0.138	>= 0.10	0.433	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	19	10	53%	0.416	0.000	0.502	0.000	0.643	0.000	0.370	0.001	0.472	< 0.01	2.110	< 0.01	1.245	Nonparametric	Nonparametric
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.910	0.074	0.161	0.221	0.939	0.251	0.133	0.507	0.141	>= 0.10	0.442	>= 0.10	0.135	Gamma; Lognormal; Normal	Normal
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	0.776	0.001	0.229	0.024	0.942	0.371	0.133	0.630	0.158	>= 0.10	0.606	>= 0.10	0.440	Gamma; Lognormal	Gamma
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	0.918	0.104	0.143	0.385	0.541	0.000	0.333	0.000	0.269	< 0.01	1.944	< 0.01	0.689	Normal	Normal
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	19	0	0%	0.911	0.077	0.157	0.248	0.932	0.187	0.181	0.106	0.168	>= 0.10	0.579	>= 0.10	0.196	Gamma; Lognormal; Normal	Normal
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	19	2	11%	0.954	0.522	0.108	0.866	0.983	0.977	0.117	0.775	0.095	>= 0.10	0.170	>= 0.10	0.402	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	19	13	68%	0.604	0.001	0.435	0.001	0.807	0.068	0.317	0.059	0.381	0.01 <= p < 0.05	0.878	0.01 <= p < 0.05	0.892	Lognormal	Nonparametric
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.959	0.553	0.107	0.822	0.592	0.000	0.273	0.001	0.217	0.01 <= p < 0.05	1.299	< 0.01	1.159	Normal	Normal
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	19	0	0%	0.984	0.979	0.114	0.744	0.668	0.000	0.255	0.002	0.220	0.01 <= p < 0.05	0.997	0.01 <= p < 0.05	0.836	Normal	Normal
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.907	0.064	0.251	0.003	0.857	0.009	0.203	0.038	0.219	0.01 <= p < 0.05	0.912	0.01 <= p < 0.05	0.266	Normal	Normal
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	19	1	5%	0.931	0.200	0.179	0.133	0.940	0.290	0.128	0.612	0.107	>= 0.10	0.270	>= 0.10	0.667	Gamma; Lognormal; Normal	Normal
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	19	0	0%	0.899	0.047	0.235	0.007	0.955	0.475	0.186	0.084	0.202	0.01 <= p < 0.05	0.552	>= 0.10	0.257	Gamma; Lognormal	Gamma
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	19	14	74%	0.905	0.441	0.204	0.707	0.982	0.945	0.150	0.970	0.179	>= 0.10	0.220	>= 0.10	0.589	Gamma; Lognormal; Normal	Nonparametric
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	19	0	0%	0.699	0.000	0.222	0.014	0.894	0.038	0.188	0.076	0.211	0.01 <= p < 0.05	1.074	< 0.01	0.514	Lognormal	Lognormal
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	18	6	33%	0.893	0.128	0.178	0.363	0.965	0.854	0.104	0.974	0.121	>= 0.10	0.242	>= 0.10	0.479	Gamma; Lognormal; Normal	Normal
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	19	0	0%	0.960	0.576	0.165	0.186	0.943	0.304	0.171	0.151	0.145	>= 0.10	0.332	>= 0.10	0.414	Gamma; Lognormal; Normal	Normal
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_5_111	MW-02	Part 115	Copper	mg/L	19	0	0%	0.944	0.309	0.133	0.502	0.905	0.060	0.138	0.449	0.098	>= 0.10	0.230	>= 0.10	0.688	Gamma; Lognormal; Normal	Normal
12_2_5_114	MW-02	Part 115	Iron	mg/L	19	0	0%	0.954	0.466	0.140	0.427	0.961	0.593	0.124	0.622	0.128	>= 0.10	0.277	>= 0.10	0.165	Gamma; Lognormal; Normal	Normal
12_2_5_119	MW-02	Part 115	Nickel	mg/L	19	0	0%	0.880	0.022	0.241	0.005	0.736	0.000	0.258	0.002	0.195	0.05 <= p < 0.10	0.808	0.01 <= p < 0.05	0.884	Gamma	Gamma
12_2_5_123	MW-02	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	19	1	5%	0.953	0.474	0.123	0.675	0.886	0.033	0.156	0.289	0.156	>= 0.10	0.524	>= 0.10	0.552	Gamma; Lognormal; Normal	Normal
12_2_5_129	MW-02	Part 115	Zinc	mg/L	19	0	0%	0.707	0.000	0.385	0.000	0.801	0.001	0.297	0.000	0.348	< 0.01	2.140	< 0.01	1.171	Nonparametric	Nonparametric
13_2_3_105	MW-03	Appendix III	Boron	mg/L	19	0	0%	0.944	0.306	0.132	0.517	0.930	0.172	0.143	0.393	0.142	>= 0.10	0.442	>= 0.10	0.086	Gamma; Lognormal; Normal	Normal
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	19	0	0%	0.977	0.895	0.146	0.358	0.978	0.913	0.126	0.593	0.131	>= 0.10	0.215	>= 0.10	0.108	Gamma; Lognormal; Normal	Normal
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.908	0.069	0.137	0.455	0.985	0.984	0.088	0.960	0.105	>= 0.10	0.249	>= 0.10	0.349	Gamma; Lognormal; Normal	Normal
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	19	0	0%	0.592	0.000	0.266	0.001	0.744	0.000	0.242	0.005	0.255	< 0.01	1.849	< 0.01	0.251	Nonparametric	Nonparametric
13_2_3_120	MW-03	Appendix III	pH (field)	su	19	0	0%	0.957	0.512	0.158	0.239	0.959	0.558	0.157	0.251	0.161	>= 0.10	0.340	>= 0.10	0.012	Gamma; Lognormal; Normal	Normal
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.945	0.330	0.107	0.822	0.890	0.033	0.166	0.182	0.133	>= 0.10	0.433	>= 0.10	1.027	Gamma; Lognormal; Normal	Gamma
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.838	0.004	0.208	0.030	0.845	0.006	0.214	0.023	0.219	0.01 <= p < 0.05	1.220	< 0.01	0.142	Nonparametric	Nonparametric
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	19	13	68%	0.669	0.003	0.366	0.012	0.815	0.080	0.256	0.250	0.299	>= 0.10	0.738	0.01 <= p < 0.05	0.608	Gamma; Lognormal	Nonparametric
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	19	0	0%	0.972	0.821	0.133	0.508	0.954	0.465	0.142	0.395	0.147	>= 0.10	0.260	>= 0.10	0.306	Gamma; Lognormal; Normal	Normal
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	19	0	0%	0.925	0.142	0.159	0.232	0.778	0.001	0.227	0.011	0.203	0.01 <= p < 0.05	0.919	0.01 <= p < 0.05	0.284	Normal	Normal
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	19	12	63%	0.764	0.018	0.346	0.011	0.815	0.057	0.289	0.080	0.320	0.01 <= p < 0.05	0.756	0.01 <= p < 0.05	0.501	Lognormal	Nonparametric
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.911	0.076	0.198	0.049	0.944	0.310	0.186	0.084	0.196	0.05 <= p < 0.10	0.497	>= 0.10	0.255	Gamma; Lognormal; Normal	Normal
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	19	0	0%	0.914	0.089	0.169	0.166	0.958	0.527	0.127	0.580	0.148	>= 0.10	0.365	>= 0.10	0.383	Gamma; Lognormal; Normal	Normal
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.592	0.000	0.266	0.001	0.744	0.000	0.242	0.005	0.255	< 0.01	1.849	< 0.01	0.251	Nonparametric	Nonparametric
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	0.837	0.004	0.208	0.029	0.918	0.104	0.176	0.126	0.190	0.05 <= p < 0.10	0.692	0.05 <= p < 0.10	0.222	Gamma; Lognormal	Gamma
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	19	14	74%	0.553	0.000	0.472	0.001	0.641	0.002	0.420	0.004	0.484	< 0.01	1.154	< 0.01	2.751	Nonparametric	Nonparametric
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	19	13	68%	0.976	0.931	0.172	0.834	0.975	0.923	0.186	0.741	0.151	>= 0.10	0.182	>= 0.10	0.442	Gamma; Lognormal; Normal	Nonparametric
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	18	3	17%	0.893	0.076	0.206	0.085	0.967	0.806	0.141	0.582	0.164	>= 0.10	0.360	>= 0.10	0.357	Gamma; Lognormal; Normal	Normal
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19	3	16%	0.964	0.727	0.181	0.174	0.897	0.073	0.202	0.080	0.177	>= 0.10	0.442	>= 0.10	0.292	Gamma; Lognormal; Normal	Normal
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
13_2_5_111	MW-03	Part 115	Copper	mg/L	19	9	47%	0.777	0.008	0.325	0.004	0.813	0.021	0.292	0.016	0.317	< 0.01	0.983	0.01 <= p < 0.05	0.618	Nonparametric	Nonparametric
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	0.748	0.000	0.215	0.021	0.984	0.976	0.078	0.992	0.102	>= 0.10	0.262	>= 0.10	1.146	Gamma; Lognormal	Gamma
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	0.347	0.000	0.436	0.000	0.646	0.000	0.283	0.000	0.366	< 0.01	3.280	< 0.01	0.625	Nonparametric	Nonparametric
13_2_5_123	MW-03	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	19	9	47%	0.866	0.090	0.200	0.309	0.903	0.238	0.164	0.629	0.175	>= 0.10	0.442	>= 0.10	0.194	Gamma; Lognormal; Normal	Normal
13_2_5_129	MW-03	Part 115	Zinc	mg/L	19	9	47%	0.843	0.048	0.250	0.078	0.818	0.024	0.283	0.022	0.266	0.05 <= p < 0.10	0.891	0.01 <= p < 0.05	1.437	Gamma; Normal	Gamma
14_2_3_105	MW-04	Appendix III	Boron	mg/L	19	0	0%	0.761	0.000	0.296	0.000	0.586	0.000	0.356	0.000	0.342	< 0.01	2.628	< 0.01	0.450	Nonparametric	Nonparametric
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	19	0	0%	0.876	0.019	0.155	0.269	0.933	0.197	0.132	0.517	0.141	>= 0.10	0.597	>= 0.10	0.163	Gamma; Lognormal; Normal	Normal
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.967	0.708	0.087	0.966	0.851	0.007	0.229	0.010	0.174	>= 0.10	0.712	0.05 <= p < 0.10	0.899	Gamma; Normal	Normal
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	19	0	0%	0.902	0.053	0.235	0.007	0.923	0.127	0.192	0.064	0.207	0.01 <= p < 0.05	0.749	0.01 <= p < 0.05	0.241	Lognormal; Normal	Normal
14_2_3_120	MW-04	Appendix III	pH (field)	su	19	0	0%	0.878	0.020	0.206	0.033	0.868	0.013	0.212	0.025	0.204	0.01 <= p < 0.05	0.889	0.01 <= p < 0.05	0.025	Nonparametric	Nonparametric
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.923	0.127	0.155	0.268	0.412	0.000	0.379	0.000	0.318	< 0.01	3.087	< 0.01	1.363	Normal	Normal
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.881	0.022	0.195	0.054	0.831	0.003	0.239	0.006	0.222	0.01 <= p < 0.05	1.061	< 0.01	0.191	Normal	Normal
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	19	13	68%	0.816	0.081	0.285	0.132	0.850	0.157	0.293	0.109	0.313	0.05 <= p < 0.10	0.598	>= 0.10	0.799	Gamma; Lognormal; Normal	Nonparametric
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	0.543	0.000	0.369	0.000	0.846	0.006	0.218	0.017	0.277	< 0.01	1.749	< 0.01	0.561	Nonparametric	Nonparametric
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	0.562	0.000	0.313	0.000	0.772	0.000	0.220	0.016	0.237	< 0.01	1.922	< 0.01	0.516	Nonparametric	Nonparametric
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.275		Nonparametric
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.961	0.591	0.133	0.501	0.880	0.021	0.182	0.097	0.143	>= 0.10	0.563	>= 0.10	0.551	Gamma; Lognormal; Normal	Normal
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	0.678	0.000	0.261	0.001	0.945	0.323	0.171	0.149	0.210	0.01 <= p < 0.05	0.999	0.01 <= p < 0.05	0.742	Lognormal	Lognormal
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.902	0.053	0.235	0.007	0.923	0.127	0.192	0.064	0.207	0.01 <= p < 0.05	0.749	0.01 <= p < 0.05	0.241	Lognormal; Normal	Normal
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.524		Nonparametric
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	19	0	0%	0.916	0.096	0.138	0.451	0.871	0.015	0.176	0.127	0.166	>= 0.10	0.726	0.05 <= p < 0.10	0.266	Gamma; Lognormal; Normal	Normal
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.111		Nonparametric
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	19	2	11%	0.629	0.000	0.349	0.000	0.893	0.053	0.221	0.026	0.292	< 0.01	1.462	< 0.01	1.091	Lognormal	Nonparametric
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	0.886	0.087	0.200	0.164	0.864	0.044	0.188	0.241	0.202	>= 0.10	0.722	0.05 <= p < 0.10	0.344	Gamma; Lognormal; Normal	Normal
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	19	5	26%	0.595	0.000	0.267	0.008	0.855	0.026	0.209	0.099	0.240	0.01 <= p < 0.05	1.101	< 0.01	0.556	Lognormal	Lognormal
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_5_111	MW-04	Part 115	Copper	mg/L	19	13	68%	0.828	0.104	0.289	0.121	0.813	0.077	0.272	0.178	0.300	>= 0.10	0.629	0.05 <= p < 0.10	0.663	Gamma; Lognormal; Normal	Nonparametric
14_2_5_114	MW-04	Part 115	Iron	mg/L	19	0	0%	0.772	0.000	0.256	0.002	0.532	0.000	0.395	0.000	0.373	< 0.01	3.179	< 0.01	0.916	Nonparametric	Nonparametric
14_2_5_119	MW-04	Part 115	Nickel	mg/L	19	0	0%	0.952	0.432	0.128	0.568	0.786	0.001	0.214	0.022	0.185	0.05 <= p < 0.10	0.955	0.01 <= p < 0.05	0.637	Gamma; Normal	Normal
14_2_5_123	MW-04	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	19	10	53%	0.948	0.670	0.170	0.635	0.950	0.685	0.164	0.691	0.181	>= 0.10	0.266	>= 0.10	0.280	Gamma; Lognormal; Normal	Nonparametric
14_2_5_129	MW-04	Part 115	Zinc	mg/L	19	10	53%	0.818	0.032	0.267	0.064	0.909	0.309	0.165	0.687	0.173	>= 0.10	0.422	>= 0.10	0.799	Gamma; Lognormal; Normal	Nonparametric
16_1_3_105	MW-06	Appendix III	Boron	mg/L	19	0	0%	0.958	0.538	0.152	0.293	0.943	0.302	0.184	0.089	0.175	>= 0.10	0.425	>= 0.10	0.181	Gamma; Lognormal; Normal	Normal
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	19	0	0%	0.909	0.071	0.167	0.173	0.929	0.163	0.150	0.311	0.156	>= 0.10	0.488	>= 0.10	0.139	Gamma; Lognormal; Normal	Normal
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.934	0.207	0.165	0.189	0.948	0.371	0.215	0.021	0.177	>= 0.10	0.348	>= 0.10	0.659	Gamma; Lognormal; Normal	Normal
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	19	0	0%	0.932	0.187	0.165	0.188	0.939	0.251	0.156	0.258	0.162	>= 0.10	0.431	>= 0.10	0.153	Gamma; Lognormal; Normal	Normal
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	0.659	0.000	0.286	0.000	0.636	0.000	0.297	0.000	0.285	< 0.01	2.010	< 0.01	0.033	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	19	2	11%	0.571	0.000	0.318	0.000	0.968	0.780	0.149	0.403	0.176	>= 0.10	0.488	>= 0.10	1.126	Gamma; Lognormal	Gamma
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.796	0.001	0.349	0.000	0.781	0.001	0.359	0.000	0.359	< 0.01	2.040	< 0.01	0.067	Nonparametric	Nonparametric
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.835		Nonparametric
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	19	0	0%	0.937	0.233	0.144	0.373	0.959	0.553	0.132	0.520	0.131	>= 0.10	0.368	>= 0.10	0.275	Gamma; Lognormal; Normal	Normal
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	19	0	0%	0.884	0.025	0.235	0.007	0.836	0.004	0.258	0.002	0.246	< 0.01	0.994	0.01 <= p < 0.05	0.112	Nonparametric	Nonparametric
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.967		Nonparametric
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.856	0.008	0.218	0.018	0.926	0.148	0.160	0.223	0.181	>= 0.10	0.719	0.05 <= p < 0.10	0.307	Gamma; Lognormal	Gamma
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	19	0	0%	0.412	0.000	0.358	0.000	0.703	0.000	0.226	0.011	0.259	< 0.01	2.582	< 0.01	0.518	Nonparametric	Nonparametric
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.932	0.187	0.165	0.188	0.939	0.251	0.156	0.258	0.162	>= 0.10	0.431	>= 0.10	0.153	Gamma; Lognormal; Normal	Normal
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	19	10	53%	0.929	0.470	0.146	0.838	0.927	0.451	0.139	0.884	0.139	>= 0.10	0.286	>= 0.10	0.419	Gamma; Lognormal; Normal	Nonparametric
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	19	0	0%	0.958	0.536	0.108	0.811	0.958	0.525	0.121	0.662	0.118	>= 0.10	0.261	>= 0.10	0.221	Gamma; Lognormal; Normal	Normal
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	19	14	74%	0.878	0.299	0.226	0.550	0.879	0.305	0.221	0.585	0.250	>= 0.10	0.408	>= 0.10	0.275	Gamma; Lognormal; Normal	Nonparametric
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	19	10	53%	0.440	0.000	0.462	0.000	0.610	0.000	0.307	0.015	0.383	< 0.01	2.034	< 0.01	0.972	Nonparametric	Nonparametric
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	19	4	21%	0.855	0.020	0.237	0.024	0.957	0.649	0.163	0.353	0.184	>= 0.10	0.478	>= 0.10	0.359	Gamma; Lognormal	Gamma
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	19	5	26%	0.724	0.001	0.358	0.000	0.817	0.008	0.315	0.001	0.334	< 0.01	1.407	< 0.01	0.292	Nonparametric	Nonparametric
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_111	MW-06	Part 115	Copper	mg/L	19	13	68%	0.533	0.000	0.470	0.000	0.643	0.001	0.406	0.002	0.459	< 0.01	1.343	< 0.01	0.982	Nonparametric	Nonparametric
16_1_5_114	MW-06	Part 115	Iron	mg/L	19	0	0%	0.962	0.611	0.164	0.196	0.945	0.322	0.166	0.182	0.135	>= 0.10	0.317	>= 0.10	0.489	Gamma; Lognormal; Normal	Normal
16_1_5_119	MW-06	Part 115	Nickel	mg/L	19	6	32%	0.470	0.000	0.413	0.000	0.645	0.000	0.310	0.001	0.348	< 0.01	2.145	< 0.01	0.408	Nonparametric	Nonparametric
16_1_5_123	MW-06	Part 115	Silver	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	19	14	74%	0.613	0.001	0.444	0.002	0.728	0.018	0.386	0.014	0.433	< 0.01	0.945	< 0.01	0.869	Nonparametric	Nonparametric
16_1_5_129	MW-06	Part 115	Zinc	mg/L	19	2	11%	0.683	0.000	0.402	0.000	0.695	0.000	0.367	0.000	0.396	< 0.01	2.599	< 0.01	1.918	Nonparametric	Nonparametric
17_1_3_105	MW-07	Appendix III	Boron	mg/L	19	0	0%	0.882	0.024	0.241	0.005	0.824	0.003	0.266	0.001	0.259	< 0.01	1.030	< 0.01	0.146	Nonparametric	Nonparametric
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	19	0	0%	0.938	0.239	0.197	0.050	0.926	0.149	0.211	0.025	0.210	0.01 <= p < 0.05	0.667	0.05 <= p < 0.10	0.088	Gamma; Lognormal; Normal	Normal
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.884	0.025	0.237	0.006	0.893	0.036	0.230	0.009	0.236	< 0.01	0.845	0.01 <= p < 0.05	0.089	Nonparametric	Nonparametric
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	19	4	21%	0.921	0.198	0.163	0.351	0.923	0.215	0.214	0.064	0.203	>= 0.10	0.543	>= 0.10	0.364	Gamma; Lognormal; Normal	Normal
17_1_3_120	MW-07	Appendix III	pH (field)	su	19	0	0%	0.872	0.015	0.211	0.025	0.866	0.012	0.215	0.021	0.211	0.01 <= p < 0.05	0.996	0.01 <= p < 0.05	0.017	Nonparametric	Nonparametric
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.926	0.143	0.185	0.087	0.928	0.159	0.162	0.209	0.177	>= 0.10	0.580	>= 0.10	0.353	Gamma; Lognormal; Normal	Normal
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.828	0.003	0.173	0.140	0.785	0.001	0.204	0.036	0.178	>= 0.10	1.322	< 0.01	0.123	Gamma; Normal	Normal
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	19	0	0%	0.960	0.571	0.141	0.407	0.906	0.062	0.182	0.096	0.171	>= 0.10	0.593	>= 0.10	0.244	Gamma; Lognormal; Normal	Normal
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	19	0	0%	0.937	0.234	0.181	0.105	0.910	0.073	0.205	0.034	0.188	0.05 <= p < 0.10	0.549	>= 0.10	0.126	Gamma; Lognormal; Normal	Normal
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	19	14	74%	0.697	0.009	0.381	0.017	0.750	0.030	0.342	0.057	0.364	0.01 <= p < 0.05	0.767	0.01 <= p < 0.05	0.325	Lognormal	Nonparametric
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.685	0.000	0.215	0.021	0.838	0.004	0.152	0.291	0.168	>= 0.10	1.057	< 0.01	0.235	Gamma; Lognormal	Gamma
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	19	0	0%	0.961	0.585	0.165	0.189	0.953	0.443	0.186	0.082	0.183	0.05 <= p < 0.10	0.483	>= 0.10	0.134	Gamma; Lognormal; Normal	Normal
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	19	4	21%	0.921	0.198	0.163	0.351	0.923	0.215	0.214	0.064	0.203	>= 0.10	0.543	>= 0.10	0.364	Gamma; Lognormal; Normal	Normal
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	19	0	0%	0.950	0.401	0.158	0.245	0.947	0.351	0.178	0.119	0.161	>= 0.10	0.432	>= 0.10	0.260	Gamma; Lognormal; Normal	Normal
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	0.725	0.000	0.259	0.004	0.903	0.076	0.176	0.175	0.198	0.05 <= p < 0.10	0.716	0.05 <= p < 0.10	0.322	Gamma; Lognormal	Gamma
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	19	9	47%	0.740	0.003	0.331	0.003	0.816	0.023	0.286	0.020	0.303	0.01 <= p < 0.05	0.939	0.01 <= p < 0.05	0.250	Nonparametric	Nonparametric
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_111	MW-07	Part 115	Copper	mg/L	19	14	74%	0.675	0.005	0.411	0.006	0.752	0.031	0.371	0.023	0.398	0.01 <= p < 0.05	0.827	0.01 <= p < 0.05	0.431	Nonparametric	Nonparametric
17_1_5_114	MW-07	Part 115	Iron	mg/L	19	0	0%	0.946	0.338	0.134	0.493	0.949	0.375	0.137	0.462	0.143	>= 0.10	0.363	>= 0.10	0.150	Gamma; Lognormal; Normal	Normal
17_1_5_119	MW-07	Part 115	Nickel	mg/L	19	14	74%	0.671	0.005	0.395	0.011	0.774	0.049	0.320	0.094	0.359	0.01 <= p < 0.05	0.766	0.01 <= p < 0.05	0.610	Lognormal	Nonparametric
17_1_5_123	MW-07	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	19	12	63%	0.935	0.596	0.196	0.570	0.920	0.467	0.226	0.345	0.216	>= 0.10	0.354	>= 0.10	0.173	Gamma; Lognormal; Normal	Nonparametric
17_1_5_129	MW-07	Part 115	Zinc	mg/L	19	10	53%	0.913	0.339	0.188	0.477	0.813	0.029	0.321	0.008	0.296	0.01 <= p < 0.05	0.699	0.05 <= p < 0.10	1.423	Gamma; Normal	Nonparametric
18_1_3_105	MW-08	Appendix III	Boron	mg/L	19	0	0%	0.950	0.403	0.169	0.161	0.912	0.081	0.213	0.024	0.204	0.01 <= p < 0.05	0.663	0.05 <= p < 0.10	0.338	Gamma; Lognormal; Normal	Normal
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	19	0	0%	0.923	0.127	0.165	0.190	0.883	0.024	0.196	0.052	0.180	>= 0.10	0.685	0.05 <= p < 0.10	0.163	Gamma; Lognormal; Normal	Normal
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.681	0.000	0.329	0.000	0.851	0.007	0.212	0.024	0.256	< 0.01	1.637	< 0.01	0.533	Nonparametric	Nonparametric
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	19	0	0%	0.922	0.122	0.201	0.041	0.850	0.007	0.267	0.001	0.245	< 0.01	1.113	< 0.01	0.327	Normal	Normal
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	0.723	0.000	0.249	0.003	0.694	0.000	0.261	0.001	0.249	< 0.01	1.705	< 0.01	0.040	Nonparametric	Nonparametric
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	19	5	26%	0.889	0.078	0.185	0.220	0.930	0.309	0.185	0.219	0.148	>= 0.10	0.270	>= 0.10	1.404	Gamma; Lognormal; Normal	Gamma
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.978	0.916	0.125	0.610	0.954	0.455	0.140	0.423	0.124	>= 0.10	0.311	>= 0.10	0.197	Gamma; Lognormal; Normal	Normal
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	19	11	58%	0.944	0.648	0.195	0.491	0.973	0.920	0.152	0.850	0.171	>= 0.10	0.211	>= 0.10	0.505	Gamma; Lognormal; Normal	Nonparametric
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	19	0	0%	0.935	0.210	0.152	0.293	0.853	0.007	0.205	0.035	0.162	>= 0.10	0.769	0.01 <= p < 0.05	0.595	Gamma; Normal	Normal
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	19	0	0%	0.922	0.124	0.153	0.290	0.857	0.009	0.191	0.067	0.181	>= 0.10	0.743	0.01 <= p < 0.05	0.246	Gamma; Lognormal; Normal	Normal
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.914	0.089	0.155	0.268	0.977	0.895	0.098	0.900	0.120	>= 0.10	0.241	>= 0.10	0.333	Gamma; Lognormal; Normal	Normal
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	19	0	0%	0.918	0.102	0.204	0.036	0.954	0.463	0.175	0.128	0.193	0.05 <= p < 0.10	0.538	>= 0.10	0.393	Gamma; Lognormal; Normal	Normal
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.922	0.122	0.201	0.041	0.850	0.007	0.267	0.001	0.245	< 0.01	1.113	< 0.01	0.327	Normal	Normal
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	19	12	63%	0.677	0.002	0.299	0.058	0.921	0.477	0.228	0.331	0.272	>= 0.10	0.499	>= 0.10	1.216	Gamma; Lognormal; Normal	Nonparametric
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	19	0	0%	0.932	0.190	0.131	0.534	0.944	0.307	0.155	0.270	0.151	>= 0.10	0.403	>= 0.10	0.257	Gamma; Lognormal; Normal	Normal
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.434		Nonparametric
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	19	1	5%	0.943	0.321	0.138	0.491	0.927	0.171	0.185	0.108	0.144	>= 0.10	0.367	>= 0.10	0.779	Gamma; Lognormal; Normal	Normal
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19	5	26%	0.914	0.180	0.190	0.184	0.981	0.979	0.124	0.805	0.140	>= 0.10	0.229	>= 0.10	0.364	Gamma; Lognormal; Normal	Normal
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	0.713	0.001	0.295	0.005	0.806	0.011	0.231	0.076	0.256	0.01 <= p < 0.05	1.209	< 0.01	0.359	Lognormal	Lognormal
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_5_111	MW-08	Part 115	Copper	mg/L	19	6	32%	0.893	0.108	0.197	0.182	0.977	0.960	0.133	0.763	0.146	>= 0.10	0.266	>= 0.10	0.369	Gamma; Lognormal; Normal	Normal
18_1_5_114	MW-08	Part 115	Iron	mg/L	19	0	0%	0.957	0.512	0.155	0.267	0.941	0.271	0.173	0.142	0.153	>= 0.10	0.384	>= 0.10	0.430	Gamma; Lognormal; Normal	Normal
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	0.654	0.000	0.249	0.003	0.893	0.036	0.204	0.037	0.235	< 0.01	1.076	< 0.01	0.750	Nonparametric	Nonparametric
18_1_5_123	MW-08	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.651		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
18_1_5_129	MW-08	Part 115	Zinc	mg/L	19	3	16%	0.728	0.000	0.359	0.000	0.779	0.001	0.266	0.004	0.326	< 0.01	1.694	< 0.01	1.936	Nonparametric	Nonparametric
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	0.808	0.002	0.212	0.025	0.657	0.000	0.285	0.000	0.257	< 0.01	1.578	< 0.01	0.228	Nonparametric	Nonparametric
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	19	0	0%	0.928	0.157	0.160	0.223	0.908	0.068	0.159	0.232	0.157	>= 0.10	0.634	0.05 <= p < 0.10	0.245	Gamma; Lognormal; Normal	Normal
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.800	0.001	0.270	0.001	0.905	0.061	0.186	0.083	0.212	0.01 <= p < 0.05	0.901	0.01 <= p < 0.05	0.674	Lognormal	Lognormal
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	19	0	0%	0.927	0.150	0.136	0.466	0.879	0.021	0.168	0.169	0.149	>= 0.10	0.501	>= 0.10	0.145	Gamma; Lognormal; Normal	Normal
19_2_3_120	MW-09	Appendix III	pH (field)	su	19	0	0%	0.948	0.368	0.166	0.183	0.949	0.382	0.163	0.207	0.160	>= 0.10	0.518	>= 0.10	0.020	Gamma; Lognormal; Normal	Normal
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.968	0.744	0.098	0.900	0.889	0.031	0.212	0.025	0.167	>= 0.10	0.568	>= 0.10	0.743	Gamma; Normal	Normal
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.989	0.997	0.109	0.797	0.951	0.405	0.157	0.251	0.144	>= 0.10	0.286	>= 0.10	0.291	Gamma; Lognormal; Normal	Normal
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	19	12	63%	0.913	0.414	0.161	0.840	0.984	0.975	0.111	0.998	0.138	>= 0.10	0.180	>= 0.10	0.560	Gamma; Lognormal; Normal	Nonparametric
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	19	0	0%	0.932	0.193	0.225	0.012	0.875	0.018	0.269	0.001	0.258	< 0.01	0.981	0.01 <= p < 0.05	0.349	Normal	Normal
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	0.457	0.000	0.356	0.000	0.927	0.154	0.144	0.379	0.216	0.01 <= p < 0.05	1.359	< 0.01	0.863	Lognormal	Lognormal
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	19	14	74%	0.759	0.036	0.284	0.204	0.820	0.117	0.275	0.244	0.300	>= 0.10	0.588	>= 0.10	0.406	Gamma; Lognormal; Normal	Nonparametric
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.976	0.883	0.091	0.947	0.949	0.383	0.102	0.866	0.104	>= 0.10	0.228	>= 0.10	0.273	Gamma; Lognormal; Normal	Normal
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	0.376	0.000	0.409	0.000	0.797	0.001	0.202	0.040	0.304	< 0.01	2.294	< 0.01	0.746	Nonparametric	Nonparametric
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.927	0.150	0.136	0.466	0.879	0.021	0.168	0.169	0.149	>= 0.10	0.501	>= 0.10	0.145	Gamma; Lognormal; Normal	Normal
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.627		Nonparametric
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	0.669	0.000	0.248	0.003	0.777	0.001	0.197	0.051	0.210	0.01 <= p < 0.05	1.345	< 0.01	0.159	Lognormal	Lognormal
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	19	14	74%	0.723	0.016	0.366	0.027	0.802	0.084	0.253	0.363	0.316	>= 0.10	0.676	0.05 <= p < 0.10	4.531	Gamma; Lognormal	Nonparametric
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	19	0	0%	0.964	0.652	0.119	0.677	0.910	0.073	0.175	0.128	0.151	>= 0.10	0.442	>= 0.10	0.316	Gamma; Lognormal; Normal	Normal
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.164		Nonparametric
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	0.437	0.000	0.389	0.000	0.775	0.001	0.261	0.003	0.335	< 0.01	2.422	< 0.01	0.739	Nonparametric	Nonparametric
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_111	MW-09	Part 115	Copper	mg/L	19	11	58%	0.727	0.005	0.319	0.016	0.848	0.091	0.271	0.085	0.313	0.01 <= p < 0.05	0.742	0.01 <= p < 0.05	1.036	Lognormal	Nonparametric
19_2_5_114	MW-09	Part 115	Iron	mg/L	19	0	0%	0.922	0.125	0.117	0.701	0.787	0.001	0.172	0.147	0.141	>= 0.10	0.751	0.01 <= p < 0.05	0.350	Gamma; Lognormal; Normal	Normal
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	0.505	0.000	0.321	0.000	0.928	0.161	0.177	0.122	0.199	0.05 <= p < 0.10	1.254	< 0.01	1.370	Gamma; Lognormal	Gamma
19_2_5_123	MW-09	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.407		Nonparametric
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	0.554	0.000	0.353	0.000	0.939	0.514	0.144	0.752	0.197	>= 0.10	0.571	>= 0.10	1.338	Gamma; Lognormal	Gamma
20_3_3_105	MW-10	Appendix III	Boron	mg/L	19	0	0%	0.924	0.136	0.186	0.083	0.866	0.012	0.240	0.005	0.231	0.01 <= p < 0.05	0.861	0.01 <= p < 0.05	0.557	Normal	Normal
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	19	0	0%	0.850	0.007	0.218	0.018	0.946	0.332	0.157	0.251	0.179	>= 0.10	0.636	0.05 <= p < 0.10	0.325	Gamma; Lognormal	Gamma
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.910	0.074	0.121	0.655	0.965	0.665	0.109	0.795	0.122	>= 0.10	0.274	>= 0.10	0.586	Gamma; Lognormal; Normal	Normal
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	19	0	0%	0.958	0.533	0.152	0.293	0.904	0.058	0.209	0.029	0.191	0.05 <= p < 0.10	0.549	>= 0.10	0.307	Gamma; Lognormal; Normal	Normal
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	0.880	0.021	0.234	0.007	0.895	0.040	0.225	0.013	0.226	0.01 <= p < 0.05	0.901	0.01 <= p < 0.05	0.045	Nonparametric	Nonparametric
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.845	0.006	0.194	0.057	0.979	0.932	0.098	0.901	0.122	>= 0.10	0.353	>= 0.10	0.652	Gamma; Lognormal; Normal	Normal
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.854	0.008	0.282	0.000	0.901	0.050	0.252	0.002	0.266	< 0.01	0.952	0.01 <= p < 0.05	0.213	Lognormal	Lognormal
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.542		Nonparametric
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	19	0	0%	0.900	0.049	0.167	0.174	0.980	0.943	0.094	0.931	0.129	>= 0.10	0.216	>= 0.10	0.644	Gamma; Lognormal; Normal	Normal
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	19	0	0%	0.909	0.071	0.196	0.052	0.978	0.916	0.116	0.716	0.145	>= 0.10	0.295	>= 0.10	0.449	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	19	9	47%	0.816	0.023	0.240	0.106	0.921	0.362	0.172	0.552	0.191	>= 0.10	0.484	>= 0.10	0.467	Gamma; Lognormal; Normal	Normal
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.936	0.224	0.147	0.350	0.941	0.274	0.222	0.014	0.197	0.05 <= p < 0.10	0.467	>= 0.10	0.501	Gamma; Lognormal; Normal	Normal
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	0.686	0.000	0.271	0.001	0.932	0.215	0.150	0.357	0.190	0.05 <= p < 0.10	0.808	0.01 <= p < 0.05	0.598	Gamma; Lognormal	Gamma
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.958	0.533	0.152	0.293	0.904	0.058	0.209	0.029	0.191	0.05 <= p < 0.10	0.549	>= 0.10	0.307	Gamma; Lognormal; Normal	Normal
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.246		Nonparametric
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	0.894	0.038	0.228	0.010	0.921	0.118	0.188	0.075	0.197	0.05 <= p < 0.10	0.686	0.05 <= p < 0.10	0.244	Gamma; Lognormal	Gamma
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		5.120		Nonparametric
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	19	0	0%	0.927	0.151	0.150	0.312	0.963	0.643	0.114	0.740	0.097	>= 0.10	0.205	>= 0.10	0.650	Gamma; Lognormal; Normal	Normal
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.271		Nonparametric
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	0.712	0.000	0.233	0.011	0.891	0.040	0.155	0.302	0.177	>= 0.10	0.913	0.01 <= p < 0.05	0.301	Gamma; Lognormal	Gamma
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_5_111	MW-10	Part 115	Copper	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.649		Nonparametric
20_3_5_114	MW-10	Part 115	Iron	mg/L	19	0	0%	0.943	0.303	0.143	0.390	0.945	0.327	0.119	0.685	0.118	>= 0.10	0.358	>= 0.10	0.367	Gamma; Lognormal; Normal	Normal
20_3_5_119	MW-10	Part 115	Nickel	mg/L	19	7	37%	0.748	0.003	0.291	0.006	0.832	0.022	0.272	0.014	0.285	0.01 <= p < 0.05	0.956	0.01 <= p < 0.05	0.243	Nonparametric	Nonparametric
20_3_5_123	MW-10	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	19	12	63%	0.923	0.495	0.168	0.799	0.880	0.227	0.208	0.474	0.189	>= 0.10	0.409	>= 0.10	0.444	Gamma; Lognormal; Normal	Nonparametric
20_3_5_129	MW-10	Part 115	Zinc	mg/L	19	7	37%	0.784	0.006	0.250	0.036	0.854	0.042	0.222	0.105	0.256	0.05 <= p < 0.10	0.767	0.05 <= p < 0.10	1.408	Gamma; Lognormal	Gamma
21_2_3_105	MW-11	Appendix III	Boron	mg/L	19	0	0%	0.921	0.117	0.160	0.223	0.947	0.353	0.129	0.553	0.150	>= 0.10	0.321	>= 0.10	0.658	Gamma; Lognormal; Normal	Normal
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	19	0	0%	0.960	0.567	0.108	0.805	0.925	0.139	0.142	0.397	0.135	>= 0.10	0.424	>= 0.10	0.334	Gamma; Lognormal; Normal	Normal
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.958	0.543	0.156	0.256	0.932	0.190	0.196	0.053	0.187	0.05 <= p < 0.10	0.409	>= 0.10	0.271	Gamma; Lognormal; Normal	Normal
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	19	0	0%	0.909	0.070	0.132	0.512	0.953	0.449	0.121	0.661	0.081	>= 0.10	0.245	>= 0.10	0.636	Gamma; Lognormal; Normal	Normal
21_2_3_120	MW-11	Appendix III	pH (field)	su	19	0	0%	0.976	0.894	0.104	0.852	0.975	0.865	0.106	0.827	0.106	>= 0.10	0.197	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	19	7	37%	0.682	0.001	0.346	0.000	0.948	0.606	0.217	0.123	0.293	0.01 <= p < 0.05	0.736	0.05 <= p < 0.10	1.429	Gamma; Lognormal	Gamma
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.855	0.008	0.170	0.160	0.943	0.296	0.136	0.467	0.139	>= 0.10	0.421	>= 0.10	0.223	Gamma; Lognormal; Normal	Normal
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	19	14	74%	0.849	0.192	0.347	0.048	0.887	0.342	0.327	0.086	0.288	>= 0.10	0.453	>= 0.10	0.760	Gamma; Lognormal; Normal	Nonparametric
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	19	0	0%	0.831	0.003	0.206	0.034	0.943	0.299	0.131	0.526	0.150	>= 0.10	0.730	0.05 <= p < 0.10	0.535	Gamma; Lognormal	Gamma
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	19	0	0%	0.879	0.020	0.186	0.081	0.959	0.559	0.151	0.308	0.169	>= 0.10	0.549	>= 0.10	0.348	Gamma; Lognormal; Normal	Normal
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	19	13	68%	0.620	0.001	0.434	0.001	0.797	0.055	0.347	0.023	0.394	< 0.01	0.926	0.01 <= p < 0.05	0.710	Lognormal	Nonparametric
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.759		Nonparametric
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.485	0.000	0.379	0.000	0.815	0.002	0.229	0.010	0.302	< 0.01	2.211	< 0.01	0.680	Nonparametric	Nonparametric
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	0.648	0.000	0.334	0.000	0.887	0.029	0.177	0.122	0.237	< 0.01	1.304	< 0.01	0.688	Lognormal	Lognormal
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.909	0.070	0.132	0.512	0.953	0.449	0.121	0.661	0.081	>= 0.10	0.245	>= 0.10	0.636	Gamma; Lognormal; Normal	Normal
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19	3	16%	0.491	0.000	0.403	0.000	0.906	0.099	0.181	0.171	0.252	0.01 <= p < 0.05	1.488	< 0.01	1.803	Lognormal	Nonparametric
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	19	0	0%	0.915	0.092	0.162	0.211	0.937	0.233	0.154	0.278	0.097	>= 0.10	0.176	>= 0.10	0.960	Gamma; Lognormal; Normal	Normal
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	19	13	68%	0.504	0.000	0.484	0.000	0.765	0.028	0.283	0.139	0.388	0.01 <= p < 0.05	1.115	0.01 <= p < 0.05	2.731	Lognormal	Nonparametric
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	19	2	11%	0.895	0.055	0.181	0.147	0.964	0.699	0.111	0.839	0.139	>= 0.10	0.315	>= 0.10	0.690	Gamma; Lognormal; Normal	Normal
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	18	7	39%	0.930	0.407	0.209	0.195	0.967	0.857	0.154	0.659	0.181	>= 0.10	0.255	>= 0.10	0.411	Gamma; Lognormal; Normal	Normal
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	0.742	0.001	0.205	0.071	0.912	0.124	0.135	0.602	0.165	>= 0.10	0.654	0.05 <= p < 0.10	0.433	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	0.500	0.000	0.333	0.000	0.876	0.042	0.211	0.070	0.270	0.01 <= p < 0.05	1.445	< 0.01	1.340	Lognormal	Nonparametric
21_2_5_114	MW-11	Part 115	Iron	mg/L	19	0	0%	0.853	0.008	0.184	0.091	0.959	0.562	0.110	0.785	0.127	>= 0.10	0.370	>= 0.10	0.448	Gamma; Lognormal; Normal	Normal
21_2_5_119	MW-11	Part 115	Nickel	mg/L	19	0	0%	0.526	0.000	0.369	0.000	0.839	0.004	0.220	0.017	0.271	< 0.01	2.119	< 0.01	0.780	Nonparametric	Nonparametric
21_2_5_123	MW-11	Part 115	Silver	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.098		Nonparametric
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	19	13	68%	0.633	0.001	0.361	0.014	0.756	0.023	0.301	0.094	0.330	0.05 <= p < 0.10	0.909	0.01 <= p < 0.05	0.655	Gamma; Lognormal	Nonparametric
21_2_5_129	MW-11	Part 115	Zinc	mg/L	19	4	21%	0.877	0.043	0.188	0.162	0.877	0.042	0.271	0.004	0.223	0.05 <= p < 0.10	0.660	0.05 <= p < 0.10	1.399	Gamma; Normal	Gamma
22_2_3_105	MW-12	Appendix III	Boron	mg/L	19	0	0%	0.927	0.154	0.173	0.143	0.971	0.802	0.129	0.549	0.143	>= 0.10	0.373	>= 0.10	0.366	Gamma; Lognormal; Normal	Normal
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	19	0	0%	0.941	0.271	0.101	0.873	0.935	0.212	0.127	0.575	0.122	>= 0.10	0.403	>= 0.10	0.315	Gamma; Lognormal; Normal	Normal
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.921	0.117	0.214	0.022	0.927	0.152	0.164	0.195	0.180	>= 0.10	0.603	>= 0.10	0.274	Gamma; Lognormal; Normal	Normal
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	19	0	0%	0.865	0.012	0.267	0.001	0.920	0.113	0.213	0.023	0.232	< 0.01	0.856	0.01 <= p < 0.05	0.284	Lognormal	Lognormal
22_2_3_120	MW-12	Appendix III	pH (field)	su	19	0	0%	0.982	0.959	0.100	0.885	0.982	0.963	0.098	0.898	0.098	>= 0.10	0.210	>= 0.10	0.041	Gamma; Lognormal; Normal	Normal
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.936	0.224	0.155	0.266	0.941	0.278	0.143	0.385	0.130	>= 0.10	0.392	>= 0.10	0.501	Gamma; Lognormal; Normal	Normal
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.962	0.612	0.144	0.382	0.915	0.091	0.155	0.265	0.160	>= 0.10	0.447	>= 0.10	0.377	Gamma; Lognormal; Normal	Normal
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	19	0	0%	0.939	0.249	0.109	0.795	0.967	0.723	0.102	0.870	0.099	>= 0.10	0.166	>= 0.10	0.582	Gamma; Lognormal; Normal	Normal
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	19	0	0%	0.800	0.001	0.198	0.048	0.913	0.086	0.170	0.160	0.188	0.05 <= p < 0.10	0.751	0.01 <= p < 0.05	0.435	Gamma; Lognormal	Gamma
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	19	0	0%	0.849	0.007	0.165	0.190	0.958	0.533	0.132	0.517	0.133	>= 0.10	0.454	>= 0.10	0.601	Gamma; Lognormal; Normal	Normal
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	19	0	0%	0.637	0.000	0.249	0.003	0.941	0.281	0.112	0.771	0.170	>= 0.10	0.757	0.05 <= p < 0.10	0.792	Gamma; Lognormal	Gamma
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	19	6	32%	0.888	0.092	0.211	0.117	0.946	0.537	0.139	0.699	0.159	>= 0.10	0.371	>= 0.10	0.487	Gamma; Lognormal; Normal	Normal
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	0.672	0.000	0.303	0.001	0.944	0.477	0.115	0.881	0.186	>= 0.10	0.595	>= 0.10	0.956	Gamma; Lognormal	Gamma
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.865	0.012	0.267	0.001	0.920	0.113	0.213	0.023	0.232	< 0.01	0.856	0.01 <= p < 0.05	0.284	Lognormal	Lognormal
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	19	6	32%	0.867	0.047	0.196	0.190	0.935	0.394	0.174	0.349	0.194	>= 0.10	0.430	>= 0.10	0.549	Gamma; Lognormal; Normal	Normal
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	19	1	5%	0.938	0.263	0.150	0.353	0.915	0.104	0.161	0.247	0.147	>= 0.10	0.530	>= 0.10	0.405	Gamma; Lognormal; Normal	Normal
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	19	12	63%	0.658	0.001	0.419	0.000	0.754	0.014	0.308	0.043	0.341	0.01 <= p < 0.05	1.035	0.01 <= p < 0.05	2.473	Nonparametric	Nonparametric
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	19	0	0%	0.751	0.000	0.228	0.010	0.925	0.142	0.151	0.308	0.170	>= 0.10	0.587	>= 0.10	0.324	Gamma; Lognormal	Gamma
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	19	11	58%	0.923	0.456	0.168	0.729	0.963	0.841	0.143	0.903	0.162	>= 0.10	0.242	>= 0.10	0.264	Gamma; Lognormal; Normal	Nonparametric
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	19	0	0%	0.800	0.001	0.196	0.053	0.935	0.217	0.151	0.307	0.167	>= 0.10	0.462	>= 0.10	1.156	Gamma; Lognormal; Normal	Gamma
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_2_5_111	MW-12	Part 115	Copper	mg/L	19	0	0%	0.850	0.007	0.177	0.121	0.962	0.617	0.106	0.828	0.120	>= 0.10	0.494	>= 0.10	0.517	Gamma; Lognormal; Normal	Normal
22_2_5_114	MW-12	Part 115	Iron	mg/L	19	6	32%	0.567	0.000	0.354	0.000	0.893	0.108	0.237	0.044	0.303	< 0.01	1.195	< 0.01	1.090	Lognormal	Nonparametric
22_2_5_119	MW-12	Part 115	Nickel	mg/L	19	0	0%	0.824	0.003	0.244	0.004	0.963	0.627	0.161	0.221	0.180	>= 0.10	0.487	>= 0.10	0.484	Gamma; Lognormal	Gamma
22_2_5_123	MW-12	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	19	6	32%	0.907	0.169	0.202	0.157	0.959	0.744	0.154	0.545	0.165	>= 0.10	0.358	>= 0.10	0.370	Gamma; Lognormal; Normal	Normal
22_2_5_129	MW-12	Part 115	Zinc	mg/L	19	0	0%	0.868	0.013	0.229	0.010	0.949	0.375	0.141	0.409	0.161	>= 0.10	0.563	>= 0.10	0.572	Gamma; Lognormal	Gamma
26_1_3_105	MW-16	Appendix III	Boron	mg/L	9	0	0%	0.925	0.431	0.228	0.196	0.930	0.482	0.187	0.484	0.210	>= 0.10	0.368	>= 0.10	0.309	Gamma; Lognormal; Normal	Normal
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	9	0	0%	0.955	0.742	0.200	0.376	0.943	0.615	0.222	0.226	0.210	>= 0.10	0.337	>= 0.10	0.123	Gamma; Lognormal; Normal	Normal
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.928	0.462	0.135	0.907	0.916	0.361	0.150	0.807	0.158	>= 0.10	0.371	>= 0.10	0.168	Gamma; Lognormal; Normal	Normal
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	9	1	11%	0.867	0.141	0.213	0.353	0.869	0.149	0.222	0.291	0.233	>= 0.10	0.525	>= 0.10	0.152	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
26_1_3_120	MW-16	Appendix III	pH (field)	su	9	0	0%	0.858	0.092	0.264	0.071	0.858	0.092	0.262	0.075	0.278	0.05 <= p < 0.10	0.635	0.05 <= p < 0.10	0.042	Gamma; Lognormal; Normal	Normal
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	0.950	0.727	0.158	0.859	0.807	0.048	0.297	0.063	0.245	>= 0.10	0.514	>= 0.10	1.891	Gamma; Lognormal; Normal	Gamma
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.964	0.843	0.143	0.863	0.956	0.759	0.159	0.735	0.153	>= 0.10	0.263	>= 0.10	0.094	Gamma; Lognormal; Normal	Normal
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	9	0	0%	0.847	0.070	0.291	0.027	0.953	0.722	0.154	0.777	0.208	>= 0.10	0.371	>= 0.10	0.930	Gamma; Lognormal; Normal	Normal
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	9	0	0%	0.918	0.375	0.172	0.622	0.937	0.553	0.144	0.855	0.141	>= 0.10	0.321	>= 0.10	0.246	Gamma; Lognormal; Normal	Normal
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_4_106	MW-16	Appendix IV	Cadmium	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	9	0	0%	0.818	0.033	0.265	0.068	0.898	0.243	0.198	0.392	0.224	>= 0.10	0.564	>= 0.10	0.503	Gamma; Lognormal; Normal	Normal
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	9	0	0%	0.740	0.004	0.321	0.008	0.843	0.062	0.294	0.024	0.316	0.01 <= p < 0.05	0.791	0.01 <= p < 0.05	0.457	Lognormal	Lognormal
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	9	1	11%	0.867	0.141	0.213	0.353	0.869	0.149	0.222	0.291	0.233	>= 0.10	0.525	>= 0.10	0.152	Gamma; Lognormal; Normal	Normal
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	9	6	67%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.384		Nonparametric
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	9	0	0%	0.933	0.507	0.175	0.591	0.914	0.347	0.183	0.520	0.193	>= 0.10	0.383	>= 0.10	0.204	Gamma; Lognormal; Normal	Normal
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	9	7	78%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.279		Nonparametric
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	9	4	44%	0.956	0.777	0.234	0.494	0.983	0.952	0.197	0.756	0.198	>= 0.10	0.220	>= 0.10	0.232	Gamma; Lognormal; Normal	Normal
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	9	1	11%	0.808	0.035	0.261	0.111	0.892	0.244	0.214	0.344	0.230	>= 0.10	0.510	>= 0.10	0.256	Gamma; Lognormal; Normal	Normal
26_1_4_125	MW-16	Appendix IV	Thallium	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_5_111	MW-16	Part 115	Copper	mg/L	9	4	44%	0.957	0.787	0.198	0.746	0.952	0.753	0.221	0.584	0.227	>= 0.10	0.269	>= 0.10	0.170	Gamma; Lognormal; Normal	Normal
26_1_5_114	MW-16	Part 115	Iron	mg/L	9	0	0%	0.928	0.461	0.187	0.481	0.773	0.010	0.290	0.028	0.252	>= 0.10	0.596	>= 0.10	0.785	Gamma; Normal	Normal
26_1_5_119	MW-16	Part 115	Nickel	mg/L	9	1	11%	0.785	0.020	0.273	0.081	0.935	0.566	0.155	0.826	0.208	>= 0.10	0.431	>= 0.10	1.009	Gamma; Lognormal; Normal	Gamma
26_1_5_123	MW-16	Part 115	Silver	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	9	3	33%	0.957	0.793	0.172	0.835	0.931	0.585	0.231	0.406	0.199	>= 0.10	0.277	>= 0.10	0.379	Gamma; Lognormal; Normal	Normal
26_1_5_129	MW-16	Part 115	Zinc	mg/L	9	2	22%	0.918	0.455	0.166	0.813	0.801	0.042	0.328	0.022	0.289	>= 0.10	0.573	>= 0.10	1.440	Gamma; Normal	Gamma
27_1_3_105	MW-17	Appendix III	Boron	mg/L	9	0	0%	0.953	0.727	0.154	0.782	0.927	0.451	0.198	0.388	0.193	>= 0.10	0.304	>= 0.10	0.379	Gamma; Lognormal; Normal	Normal
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	9	0	0%	0.961	0.807	0.144	0.851	0.941	0.597	0.155	0.773	0.160	>= 0.10	0.285	>= 0.10	0.150	Gamma; Lognormal; Normal	Normal
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.910	0.319	0.270	0.058	0.785	0.014	0.338	0.004	0.322	0.01 <= p < 0.05	0.750	0.01 <= p < 0.05	0.467	Normal	Normal
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	9	0	0%	0.952	0.716	0.152	0.792	0.938	0.558	0.156	0.761	0.155	>= 0.10	0.273	>= 0.10	0.219	Gamma; Lognormal; Normal	Normal
27_1_3_120	MW-17	Appendix III	pH (field)	su	9	0	0%	0.941	0.596	0.183	0.519	0.943	0.612	0.179	0.554	0.188	>= 0.10	0.293	>= 0.10	0.026	Gamma; Lognormal; Normal	Normal
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	9	1	11%	0.821	0.047	0.308	0.024	0.927	0.488	0.184	0.593	0.197	>= 0.10	0.362	>= 0.10	1.542	Gamma; Lognormal	Gamma
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.733	0.003	0.273	0.052	0.700	0.001	0.303	0.017	0.293	0.01 <= p < 0.05	1.268	< 0.01	0.184	Normal	Normal
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	9	7	78%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.583		Nonparametric
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	9	0	0%	0.938	0.557	0.147	0.829	0.942	0.599	0.151	0.801	0.165	>= 0.10	0.278	>= 0.10	0.282	Gamma; Lognormal; Normal	Normal
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	9	0	0%	0.947	0.660	0.176	0.583	0.871	0.125	0.238	0.150	0.206	>= 0.10	0.408	>= 0.10	0.341	Gamma; Lognormal; Normal	Normal
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	9	0	0%	0.669	0.001	0.294	0.024	0.834	0.050	0.200	0.379	0.235	>= 0.10	0.799	0.01 <= p < 0.05	0.467	Gamma; Lognormal	Gamma
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	9	0	0%	0.781	0.012	0.255	0.093	0.893	0.213	0.256	0.092	0.270	0.05 <= p < 0.10	0.586	>= 0.10	0.376	Gamma; Lognormal; Normal	Normal
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.952	0.716	0.152	0.792	0.938	0.558	0.156	0.761	0.155	>= 0.10	0.273	>= 0.10	0.219	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	9	1	11%	0.910	0.354	0.193	0.512	0.912	0.369	0.205	0.411	0.215	>= 0.10	0.358	>= 0.10	0.706	Gamma; Lognormal; Normal	Normal
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	9	0	0%	0.963	0.825	0.167	0.666	0.916	0.359	0.198	0.390	0.197	>= 0.10	0.353	>= 0.10	0.303	Gamma; Lognormal; Normal	Normal
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	9	6	67%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.115		Nonparametric
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	9	0	0%	0.518	0.000	0.415	0.000	0.777	0.011	0.358	0.002	0.412	< 0.01	1.420	< 0.01	1.064	Nonparametric	Nonparametric
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	9	3	33%	0.884	0.287	0.255	0.255	0.939	0.651	0.200	0.637	0.208	>= 0.10	0.316	>= 0.10	0.316	Gamma; Lognormal; Normal	Normal
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	9	0	0%	0.463	0.000	0.480	0.000	0.661	0.000	0.381	0.000	0.443	< 0.01	1.831	< 0.01	0.774	Nonparametric	Nonparametric
27_1_4_125	MW-17	Appendix IV	Thallium	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
27_1_5_111	MW-17	Part 115	Copper	mg/L	9	1	11%	0.691	0.002	0.298	0.035	0.966	0.861	0.149	0.866	0.206	>= 0.10	0.427	>= 0.10	0.906	Gamma; Lognormal	Gamma
27_1_5_114	MW-17	Part 115	Iron	mg/L	9	0	0%	0.931	0.490	0.216	0.259	0.867	0.115	0.219	0.247	0.190	>= 0.10	0.515	>= 0.10	0.336	Gamma; Lognormal; Normal	Normal
27_1_5_119	MW-17	Part 115	Nickel	mg/L	9	0	0%	0.519	0.000	0.390	0.000	0.740	0.004	0.256	0.090	0.308	0.01 <= p < 0.05	1.401	< 0.01	0.735	Lognormal	Lognormal
27_1_5_123	MW-17	Part 115	Silver	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	9	0	0%	0.914	0.343	0.169	0.648	0.969	0.885	0.159	0.734	0.176	>= 0.10	0.247	>= 0.10	0.283	Gamma; Lognormal; Normal	Normal
27_1_5_129	MW-17	Part 115	Zinc	mg/L	9	0	0%	0.832	0.048	0.276	0.047	0.896	0.232	0.175	0.592	0.203	>= 0.10	0.490	>= 0.10	1.402	Gamma; Lognormal	Gamma
28_1_3_105	MW-18	Appendix III	Boron	mg/L	19	0	0%	0.930	0.170	0.143	0.390	0.933	0.193	0.143	0.384	0.146	>= 0.10	0.481	>= 0.10	0.337	Gamma; Lognormal; Normal	Normal
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	19	0	0%	0.963	0.633	0.183	0.095	0.948	0.359	0.221	0.016	0.211	0.01 <= p < 0.05	0.460	>= 0.10	0.227	Gamma; Lognormal; Normal	Normal
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.969	0.756	0.112	0.761	0.949	0.383	0.154	0.274	0.140	>= 0.10	0.411	>= 0.10	0.236	Gamma; Lognormal; Normal	Normal
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	19	0	0%	0.931	0.177	0.200	0.045	0.941	0.271	0.183	0.093	0.194	0.05 <= p < 0.10	0.588	>= 0.10	0.177	Gamma; Lognormal; Normal	Normal
28_1_3_120	MW-18	Appendix III	pH (field)	su	19	0	0%	0.953	0.438	0.151	0.304	0.952	0.426	0.153	0.286	0.149	>= 0.10	0.366	>= 0.10	0.011	Gamma; Lognormal; Normal	Normal
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.934	0.205	0.216	0.019	0.909	0.072	0.223	0.014	0.204	0.01 <= p < 0.05	0.651	0.05 <= p < 0.10	0.357	Gamma; Lognormal; Normal	Normal
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.972	0.822	0.144	0.375	0.944	0.314	0.145	0.365	0.140	>= 0.10	0.379	>= 0.10	0.230	Gamma; Lognormal; Normal	Normal
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	0.629	0.000	0.277	0.002	0.824	0.006	0.205	0.072	0.245	0.01 <= p < 0.05	1.560	< 0.01	0.755	Lognormal	Lognormal
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	19	0	0%	0.982	0.962	0.099	0.891	0.939	0.250	0.149	0.322	0.133	>= 0.10	0.288	>= 0.10	0.358	Gamma; Lognormal; Normal	Normal
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	0.575	0.000	0.297	0.000	0.857	0.009	0.161	0.218	0.205	0.01 <= p < 0.05	1.181	< 0.01	0.454	Lognormal	Lognormal
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.062		Nonparametric
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	19	7	37%	0.821	0.017	0.263	0.021	0.933	0.415	0.125	0.873	0.178	>= 0.10	0.461	>= 0.10	0.841	Gamma; Lognormal	Gamma
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.652		Nonparametric
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	19	0	0%	0.815	0.002	0.289	0.000	0.945	0.325	0.196	0.054	0.231	0.01 <= p < 0.05	0.805	0.01 <= p < 0.05	0.515	Lognormal	Lognormal
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.931	0.177	0.200	0.045	0.941	0.271	0.183	0.093	0.194	0.05 <= p < 0.10	0.588	>= 0.10	0.177	Gamma; Lognormal; Normal	Normal
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	19	12	63%	0.833	0.086	0.294	0.069	0.838	0.095	0.275	0.112	0.297	0.05 <= p < 0.10	0.642	0.05 <= p < 0.10	0.345	Gamma; Lognormal; Normal	Nonparametric
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	19	0	0%	0.924	0.133	0.172	0.144	0.903	0.055	0.202	0.040	0.196	0.05 <= p < 0.10	0.700	0.05 <= p < 0.10	0.226	Gamma; Lognormal; Normal	Normal
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.138		Nonparametric
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	19	0	0%	0.939	0.258	0.150	0.310	0.971	0.792	0.127	0.583	0.133	>= 0.10	0.348	>= 0.10	0.287	Gamma; Lognormal; Normal	Normal
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	0.741	0.004	0.321	0.008	0.858	0.091	0.256	0.093	0.272	0.05 <= p < 0.10	0.720	0.05 <= p < 0.10	0.283	Gamma; Lognormal	Nonparametric
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	19	0	0%	0.611	0.000	0.272	0.001	0.928	0.161	0.157	0.250	0.143	>= 0.10	0.707	0.05 <= p < 0.10	1.125	Gamma; Lognormal	Gamma
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	0.642	0.000	0.295	0.000	0.857	0.009	0.211	0.025	0.247	< 0.01	1.512	< 0.01	0.678	Nonparametric	Nonparametric
28_1_5_114	MW-18	Part 115	Iron	mg/L	19	0	0%	0.985	0.984	0.112	0.764	0.883	0.024	0.185	0.086	0.154	>= 0.10	0.431	>= 0.10	0.381	Gamma; Lognormal; Normal	Normal
28_1_5_119	MW-18	Part 115	Nickel	mg/L	19	0	0%	0.895	0.039	0.240	0.005	0.943	0.294	0.182	0.097	0.205	0.01 <= p < 0.05	0.621	>= 0.10	0.354	Gamma; Lognormal	Gamma
28_1_5_123	MW-18	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.106		Nonparametric
28_1_5_129	MW-18	Part 115	Zinc	mg/L	19	0	0%	0.802	0.001	0.215	0.020	0.974	0.853	0.104	0.847	0.136	>= 0.10	0.450	>= 0.10	0.662	Gamma; Lognormal	Gamma
29_1_3_105	MW-19	Appendix III	Boron	mg/L	19	0	0%	0.933	0.194	0.126	0.592	0.958	0.540	0.102	0.872	0.112	>= 0.10	0.304	>= 0.10	0.228	Gamma; Lognormal; Normal	Normal
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	19	0	0%	0.959	0.543	0.117	0.712	0.949	0.375	0.140	0.418	0.132	>= 0.10	0.405	>= 0.10	0.126	Gamma; Lognormal; Normal	Normal
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.923	0.126	0.179	0.112	0.955	0.479	0.186	0.084	0.160	>= 0.10	0.447	>= 0.10	0.397	Gamma; Lognormal; Normal	Normal
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	19	0	0%	0.960	0.581	0.121	0.653	0.956	0.495	0.145	0.371	0.141	>= 0.10	0.338	>= 0.10	0.145	Gamma; Lognormal; Normal	Normal
29_1_3_120	MW-19	Appendix III	pH (field)	su	19	0	0%	0.948	0.370	0.110	0.787	0.941	0.275	0.115	0.733	0.113	>= 0.10	0.306	>= 0.10	0.023	Gamma; Lognormal; Normal	Normal
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.964	0.650	0.106	0.828	0.967	0.719	0.095	0.921	0.100	>= 0.10	0.243	>= 0.10	0.195	Gamma; Lognormal; Normal	Normal
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.914	0.090	0.181	0.105	0.928	0.162	0.162	0.208	0.171	>= 0.10	0.600	>= 0.10	0.138	Gamma; Lognormal; Normal	Normal
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	19	13	68%	0.947	0.716	0.181	0.780	0.893	0.333	0.277	0.158	0.258	>= 0.10	0.353	>= 0.10	0.732	Gamma; Lognormal; Normal	Nonparametric
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	19	0	0%	0.940	0.267	0.126	0.599	0.886	0.028	0.148	0.335	0.152	>= 0.10	0.507	>= 0.10	0.576	Gamma; Lognormal; Normal	Normal
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	19	0	0%	0.979	0.936	0.114	0.749	0.984	0.980	0.117	0.707	0.105	>= 0.10	0.164	>= 0.10	0.154	Gamma; Lognormal; Normal	Normal
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	19	3	16%	0.924	0.199	0.160	0.334	0.954	0.553	0.129	0.679	0.131	>= 0.10	0.329	>= 0.10	0.287	Gamma; Lognormal; Normal	Normal
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.129		Nonparametric
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	0.779	0.004	0.256	0.020	0.885	0.082	0.216	0.100	0.233	0.05 <= p < 0.10	0.711	0.05 <= p < 0.10	0.261	Gamma; Lognormal	Gamma
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	19	1	5%	0.938	0.273	0.165	0.220	0.945	0.357	0.176	0.148	0.136	>= 0.10	0.300	>= 0.10	0.653	Gamma; Lognormal; Normal	Normal
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.960	0.581	0.121	0.653	0.956	0.495	0.145	0.371	0.141	>= 0.10	0.338	>= 0.10	0.145	Gamma; Lognormal; Normal	Normal
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	19	0	0%	0.933	0.193	0.171	0.151	0.939	0.253	0.147	0.342	0.153	>= 0.10	0.424	>= 0.10	0.129	Gamma; Lognormal; Normal	Normal
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.260		Nonparametric
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	19	0	0%	0.920	0.114	0.191	0.065	0.931	0.184	0.139	0.427	0.144	>= 0.10	0.489	>= 0.10	0.430	Gamma; Lognormal; Normal	Normal
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	0.905	0.248	0.195	0.346	0.907	0.260	0.193	0.365	0.190	>= 0.10	0.475	>= 0.10	0.306	Gamma; Lognormal; Normal	Normal
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	19	11	58%	0.517	0.000	0.393	0.001	0.704	0.002	0.333	0.009	0.392	< 0.01	1.443	< 0.01	1.214	Nonparametric	Nonparametric
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_5_111	MW-19	Part 115	Copper	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.299		Nonparametric
29_1_5_114	MW-19	Part 115	Iron	mg/L	19	0	0%	0.966	0.687	0.095	0.922	0.932	0.188	0.136	0.465	0.115	>= 0.10	0.366	>= 0.10	0.309	Gamma; Lognormal; Normal	Normal
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	0.591	0.000	0.330	0.000	0.866	0.015	0.190	0.086	0.250	< 0.01	1.584	< 0.01	0.757	Lognormal	Lognormal
29_1_5_123	MW-19	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	19	14	74%	0.948	0.722	0.227	0.540	0.984	0.957	0.180	0.856	0.183	>= 0.10	0.223	>= 0.10	0.302	Gamma; Lognormal; Normal	Nonparametric
29_1_5_129	MW-19	Part 115	Zinc	mg/L	19	10	53%	0.686	0.001	0.376	0.001	0.828	0.042	0.304	0.016	0.360	< 0.01	0.971	0.01 <= p < 0.05	1.605	Nonparametric	Nonparametric
30_1_3_105	MW-20	Appendix III	Boron	mg/L	19	0	0%	0.896	0.041	0.197	0.051	0.924	0.134	0.185	0.086	0.195	0.05 <= p < 0.10	0.675	0.05 <= p < 0.10	0.203	Gamma; Lognormal; Normal	Normal
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	19	0	0%	0.883	0.025	0.178	0.117	0.758	0.000	0.234	0.007	0.209	0.01 <= p < 0.05	1.111	< 0.01	0.218	Normal	Normal
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.933	0.193	0.171	0.154	0.907	0.065	0.232	0.009	0.218	0.01 <= p < 0.05	0.716	0.05 <= p < 0.10	0.468	Gamma; Lognormal; Normal	Normal
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	0.712	0.000	0.240	0.005	0.841	0.005	0.183	0.092	0.193	0.05 <= p < 0.10	1.265	< 0.01	0.279	Gamma; Lognormal	Gamma
30_1_3_120	MW-20	Appendix III	pH (field)	su	19	0	0%	0.943	0.292	0.178	0.115	0.942	0.289	0.178	0.115	0.185	0.05 <= p < 0.10	0.498	>= 0.10	0.014	Gamma; Lognormal; Normal	Normal
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.946	0.333	0.129	0.550	0.961	0.601	0.137	0.458	0.134	>= 0.10	0.213	>= 0.10	0.563	Gamma; Lognormal; Normal	Normal
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.922	0.126	0.180	0.108	0.843	0.005	0.219	0.017	0.206	0.01 <= p < 0.05	0.855	0.01 <= p < 0.05	0.190	Normal	Normal
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	0.532	0.000	0.391	0.000	0.827	0.021	0.222	0.135	0.288	0.01 <= p < 0.05	1.215	< 0.01	0.668	Lognormal	Lognormal
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	19	0	0%	0.916	0.097	0.187	0.080	0.929	0.164	0.178	0.118	0.185	0.05 <= p < 0.10	0.575	>= 0.10	0.204	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	19	0	0%	0.864	0.012	0.210	0.027	0.943	0.296	0.154	0.279	0.174	>= 0.10	0.563	>= 0.10	0.296	Gamma; Lognormal	Gamma
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	19	10	53%	0.440	0.000	0.479	0.000	0.559	0.000	0.389	0.000	0.446	< 0.01	2.190	< 0.01	0.717	Nonparametric	Nonparametric
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	19	0	0%	0.963	0.635	0.178	0.116	0.980	0.937	0.135	0.485	0.152	>= 0.10	0.250	>= 0.10	0.252	Gamma; Lognormal; Normal	Normal
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.712	0.000	0.240	0.005	0.841	0.005	0.183	0.092	0.193	0.05 <= p < 0.10	1.265	< 0.01	0.279	Gamma; Lognormal	Gamma
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	19	0	0%	0.552	0.000	0.317	0.000	0.823	0.003	0.204	0.036	0.247	< 0.01	1.399	< 0.01	0.416	Nonparametric	Nonparametric
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	19	0	0%	0.966	0.695	0.124	0.623	0.939	0.254	0.143	0.387	0.127	>= 0.10	0.408	>= 0.10	0.303	Gamma; Lognormal; Normal	Normal
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	19	14	74%	0.971	0.882	0.201	0.728	0.930	0.597	0.275	0.245	0.235	>= 0.10	0.262	>= 0.10	0.653	Gamma; Lognormal; Normal	Nonparametric
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	19	0	0%	0.985	0.982	0.108	0.812	0.952	0.434	0.131	0.535	0.128	>= 0.10	0.273	>= 0.10	0.211	Gamma; Lognormal; Normal	Normal
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	18	9	50%	0.785	0.014	0.317	0.009	0.864	0.106	0.290	0.028	0.310	0.01 <= p < 0.05	0.728	0.01 <= p < 0.05	0.368	Lognormal	Nonparametric
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	19	11	58%	0.678	0.001	0.388	0.001	0.759	0.010	0.346	0.005	0.374	< 0.01	1.072	< 0.01	0.531	Nonparametric	Nonparametric
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	0.459	0.000	0.369	0.000	0.809	0.003	0.178	0.165	0.260	< 0.01	1.754	< 0.01	0.678	Lognormal	Lognormal
30_1_5_114	MW-20	Part 115	Iron	mg/L	19	0	0%	0.941	0.271	0.185	0.085	0.918	0.105	0.215	0.021	0.209	0.01 <= p < 0.05	0.556	>= 0.10	0.188	Gamma; Lognormal; Normal	Normal
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	0.475	0.000	0.424	0.000	0.743	0.000	0.314	0.000	0.357	< 0.01	2.209	< 0.01	0.393	Nonparametric	Nonparametric
30_1_5_123	MW-20	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
30_1_5_129	MW-20	Part 115	Zinc	mg/L	19	0	0%	0.825	0.003	0.255	0.002	0.959	0.560	0.177	0.123	0.212	0.01 <= p < 0.05	0.570	>= 0.10	0.569	Gamma; Lognormal	Gamma
38_1_3_105	MW-28	Appendix III	Boron	mg/L	9	0	0%	0.933	0.508	0.154	0.781	0.865	0.109	0.231	0.179	0.172	>= 0.10	0.391	>= 0.10	1.020	Gamma; Lognormal; Normal	Gamma
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	9	0	0%	0.960	0.796	0.180	0.547	0.970	0.892	0.176	0.582	0.159	>= 0.10	0.249	>= 0.10	0.195	Gamma; Lognormal; Normal	Normal
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.880	0.155	0.249	0.111	0.845	0.065	0.297	0.022	0.301	0.01 <= p < 0.05	0.667	0.05 <= p < 0.10	0.997	Gamma; Lognormal; Normal	Normal
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	9	0	0%	0.954	0.733	0.165	0.680	0.925	0.439	0.201	0.366	0.193	>= 0.10	0.326	>= 0.10	0.525	Gamma; Lognormal; Normal	Normal
38_1_3_120	MW-28	Appendix III	pH (field)	su	9	0	0%	0.904	0.275	0.196	0.407	0.897	0.237	0.200	0.376	0.193	>= 0.10	0.416	>= 0.10	0.019	Gamma; Lognormal; Normal	Normal
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	0.886	0.255	0.219	0.393	0.763	0.017	0.298	0.060	0.311	0.05 <= p < 0.10	0.722	0.05 <= p < 0.10	1.986	Gamma; Lognormal; Normal	Gamma
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.949	0.675	0.171	0.631	0.938	0.563	0.187	0.484	0.195	>= 0.10	0.333	>= 0.10	0.280	Gamma; Lognormal; Normal	Normal
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	9	0	0%	0.739	0.004	0.305	0.016	0.890	0.201	0.187	0.481	0.246	>= 0.10	0.648	0.05 <= p < 0.10	0.967	Gamma; Lognormal	Gamma
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	9	0	0%	0.887	0.184	0.219	0.244	0.972	0.909	0.166	0.678	0.196	>= 0.10	0.281	>= 0.10	0.501	Gamma; Lognormal; Normal	Normal
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	9	0	0%	0.811	0.027	0.291	0.027	0.800	0.021	0.293	0.025	0.309	0.01 <= p < 0.05	0.834	0.01 <= p < 0.05	0.570	Nonparametric	Nonparametric
38_1_4_104	MW-28	Appendix IV	Beryllium	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	9	5	56%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.818		Nonparametric
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	9	0	0%	0.933	0.509	0.203	0.353	0.882	0.165	0.230	0.184	0.185	>= 0.10	0.356	>= 0.10	0.713	Gamma; Lognormal; Normal	Normal
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	9	0	0%	0.894	0.221	0.219	0.241	0.906	0.288	0.199	0.381	0.196	>= 0.10	0.437	>= 0.10	0.944	Gamma; Lognormal; Normal	Normal
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.954	0.733	0.165	0.680	0.925	0.439	0.201	0.366	0.193	>= 0.10	0.326	>= 0.10	0.525	Gamma; Lognormal; Normal	Normal
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	9	0	0%	0.783	0.013	0.265	0.069	0.967	0.869	0.189	0.463	0.243	>= 0.10	0.345	>= 0.10	1.203	Gamma; Lognormal; Normal	Gamma
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	9	0	0%	0.906	0.287	0.183	0.522	0.818	0.032	0.248	0.112	0.210	>= 0.10	0.556	>= 0.10	1.226	Gamma; Lognormal; Normal	Gamma
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	9	3	33%	0.638	0.001	0.404	0.003	0.983	0.963	0.166	0.869	0.226	>= 0.10	0.295	>= 0.10	2.100	Gamma; Lognormal	Gamma
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	9	0	0%	0.869	0.120	0.241	0.140	0.965	0.851	0.204	0.342	0.159	>= 0.10	0.245	>= 0.10	0.866	Gamma; Lognormal; Normal	Normal
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	0.741	0.016	0.367	0.011	0.799	0.058	0.334	0.035	0.347	0.01 <= p < 0.05	0.714	0.01 <= p < 0.05	0.209	Lognormal	Lognormal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	9	0	0%	0.470	0.000	0.441	0.000	0.597	0.000	0.347	0.003	0.383	< 0.01	1.970	< 0.01	0.603	Nonparametric	Nonparametric
38_1_4_125	MW-28	Appendix IV	Thallium	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
38_1_5_111	MW-28	Part 115	Copper	mg/L	9	1	11%	0.676	0.001	0.357	0.003	0.921	0.435	0.195	0.495	0.274	>= 0.10	0.596	>= 0.10	1.116	Gamma; Lognormal	Gamma
38_1_5_114	MW-28	Part 115	Iron	mg/L	9	0	0%	0.883	0.170	0.196	0.404	0.695	0.001	0.326	0.006	0.290	0.01 <= p < 0.05	0.970	0.01 <= p < 0.05	1.127	Normal	Normal
38_1_5_119	MW-28	Part 115	Nickel	mg/L	9	0	0%	0.911	0.325	0.148	0.827	0.888	0.189	0.185	0.501	0.192	>= 0.10	0.361	>= 0.10	1.011	Gamma; Lognormal; Normal	Gamma
38_1_5_123	MW-28	Part 115	Silver	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	9	2	22%	0.957	0.793	0.154	0.884	0.979	0.954	0.168	0.795	0.147	>= 0.10	0.215	>= 0.10	0.217	Gamma; Lognormal; Normal	Normal
38_1_5_129	MW-28	Part 115	Zinc	mg/L	9	0	0%	0.815	0.031	0.200	0.376	0.943	0.611	0.157	0.751	0.148	>= 0.10	0.187	>= 0.10	1.691	Gamma; Lognormal; Normal	Gamma
40_1_3_105	MW-30	Appendix III	Boron	mg/L	19	0	0%	0.757	0.000	0.229	0.010	0.878	0.019	0.176	0.124	0.188	0.05 <= p < 0.10	0.919	0.01 <= p < 0.05	0.206	Gamma; Lognormal	Gamma
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	19	0	0%	0.849	0.006	0.226	0.011	0.633	0.000	0.338	0.000	0.292	< 0.01	1.841	< 0.01	0.533	Nonparametric	Nonparametric
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.725	0.000	0.329	0.000	0.842	0.005	0.244	0.004	0.290	< 0.01	1.596	< 0.01	0.978	Nonparametric	Nonparametric
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	19	0	0%	0.876	0.018	0.230	0.009	0.792	0.001	0.255	0.002	0.250	< 0.01	1.222	< 0.01	0.191	Nonparametric	Nonparametric
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	0.822	0.002	0.176	0.125	0.809	0.002	0.182	0.097	0.178	>= 0.10	0.975	0.01 <= p < 0.05	0.026	Gamma; Lognormal; Normal	Normal
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.861	0.010	0.201	0.043	0.811	0.002	0.244	0.004	0.230	< 0.01	1.250	< 0.01	0.225	Nonparametric	Nonparametric
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.788	0.001	0.299	0.000	0.844	0.005	0.279	0.000	0.290	< 0.01	1.548	< 0.01	0.253	Nonparametric	Nonparametric
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.482		Nonparametric
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	0.590	0.000	0.309	0.000	0.971	0.830	0.124	0.700	0.198	0.05 <= p < 0.10	0.819	0.01 <= p < 0.05	1.038	Gamma; Lognormal	Gamma
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	19	0	0%	0.922	0.124	0.122	0.649	0.949	0.384	0.119	0.681	0.126	>= 0.10	0.406	>= 0.10	0.305	Gamma; Lognormal; Normal	Normal
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.314		Nonparametric
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.886	0.028	0.118	0.694	0.984	0.982	0.101	0.877	0.094	>= 0.10	0.226	>= 0.10	0.482	Gamma; Lognormal; Normal	Normal
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	0.337	0.000	0.384	0.000	0.808	0.002	0.211	0.026	0.307	< 0.01	2.802	< 0.01	1.105	Nonparametric	Nonparametric
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.876	0.018	0.230	0.009	0.792	0.001	0.255	0.002	0.250	< 0.01	1.222	< 0.01	0.191	Nonparametric	Nonparametric
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		2.496		Nonparametric
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	0.825	0.003	0.210	0.028	0.928	0.160	0.183	0.093	0.194	0.05 <= p < 0.10	0.720	0.05 <= p < 0.10	0.262	Gamma; Lognormal	Gamma
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	19	17	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		5.258		Nonparametric
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19	3	16%	0.528	0.000	0.374	0.000	0.895	0.066	0.217	0.042	0.281	< 0.01	1.617	< 0.01	1.265	Lognormal	Nonparametric
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	0.924	0.423	0.209	0.311	0.936	0.543	0.173	0.609	0.193	>= 0.10	0.349	>= 0.10	0.254	Gamma; Lognormal; Normal	Nonparametric
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	0.483	0.000	0.376	0.000	0.752	0.003	0.226	0.092	0.293	0.01 <= p < 0.05	1.739	< 0.01	0.752	Lognormal	Lognormal
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_5_111	MW-30	Part 115	Copper	mg/L	19	13	68%	0.517	0.000	0.476	0.000	0.700	0.006	0.348	0.022	0.443	< 0.01	1.264	< 0.01	1.570	Nonparametric	Nonparametric
40_1_5_114	MW-30	Part 115	Iron	mg/L	19	0	0%	0.704	0.000	0.232	0.008	0.967	0.711	0.082	0.982	0.123	>= 0.10	0.437	>= 0.10	0.784	Gamma; Lognormal	Gamma
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19	3	16%	0.356	0.000	0.410	0.000	0.846	0.012	0.226	0.029	0.281	< 0.01	2.272	< 0.01	1.255	Nonparametric	Nonparametric
40_1_5_123	MW-30	Part 115	Silver	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		2.304		Nonparametric
40_1_5_129	MW-30	Part 115	Zinc	mg/L	19	10	53%	0.708	0.002	0.332	0.005	0.936	0.537	0.197	0.402	0.253	>= 0.10	0.600	>= 0.10	1.538	Gamma; Lognormal	Nonparametric
41_1_3_105	MW-31	Appendix III	Boron	mg/L	19	0	0%	0.938	0.240	0.175	0.131	0.960	0.572	0.158	0.243	0.169	>= 0.10	0.400	>= 0.10	0.192	Gamma; Lognormal; Normal	Normal
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	19	0	0%	0.779	0.001	0.244	0.004	0.877	0.019	0.201	0.042	0.214	0.01 <= p < 0.05	1.030	< 0.01	0.226	Nonparametric	Nonparametric
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.746	0.000	0.264	0.001	0.822	0.002	0.231	0.009	0.243	< 0.01	1.427	< 0.01	0.179	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	19	0	0%	0.842	0.005	0.291	0.000	0.796	0.001	0.313	0.000	0.311	< 0.01	1.627	< 0.01	0.168	Nonparametric	Nonparametric
41_1_3_120	MW-31	Appendix III	pH (field)	su	19	0	0%	0.907	0.065	0.138	0.443	0.898	0.045	0.143	0.384	0.137	>= 0.10	0.580	>= 0.10	0.023	Gamma; Lognormal; Normal	Normal
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.818	0.002	0.213	0.023	0.968	0.728	0.128	0.566	0.137	>= 0.10	0.220	>= 0.10	0.812	Gamma; Lognormal	Gamma
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.679	0.000	0.271	0.001	0.754	0.000	0.237	0.006	0.250	< 0.01	1.863	< 0.01	0.190	Nonparametric	Nonparametric
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	19	7	37%	0.813	0.013	0.224	0.098	0.924	0.325	0.188	0.283	0.207	>= 0.10	0.453	>= 0.10	0.976	Gamma; Lognormal; Normal	Nonparametric
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	0.524	0.000	0.389	0.000	0.756	0.000	0.242	0.005	0.300	< 0.01	2.592	< 0.01	0.582	Nonparametric	Nonparametric
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	19	0	0%	0.912	0.081	0.143	0.386	0.978	0.913	0.107	0.818	0.126	>= 0.10	0.287	>= 0.10	0.347	Gamma; Lognormal; Normal	Normal
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.315		Nonparametric
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.781	0.001	0.216	0.020	0.898	0.044	0.164	0.195	0.187	0.05 <= p < 0.10	0.862	0.01 <= p < 0.05	0.356	Gamma; Lognormal	Gamma
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	0.563	0.000	0.319	0.000	0.846	0.012	0.229	0.024	0.275	< 0.01	1.451	< 0.01	0.567	Nonparametric	Nonparametric
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.842	0.005	0.291	0.000	0.796	0.001	0.313	0.000	0.311	< 0.01	1.627	< 0.01	0.168	Nonparametric	Nonparametric
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	19	14	74%	0.815	0.108	0.244	0.424	0.825	0.127	0.243	0.432	0.270	>= 0.10	0.541	>= 0.10	0.290	Gamma; Lognormal; Normal	Nonparametric
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	19	0	0%	0.931	0.182	0.182	0.097	0.955	0.478	0.141	0.408	0.152	>= 0.10	0.488	>= 0.10	0.225	Gamma; Lognormal; Normal	Normal
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	19	14	74%	0.949	0.733	0.257	0.343	0.940	0.667	0.250	0.386	0.216	>= 0.10	0.290	>= 0.10	0.482	Gamma; Lognormal; Normal	Nonparametric
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	0.608	0.000	0.347	0.000	0.879	0.021	0.229	0.010	0.275	< 0.01	1.836	< 0.01	0.887	Nonparametric	Nonparametric
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	0.769	0.004	0.273	0.022	0.842	0.034	0.211	0.186	0.229	>= 0.10	0.930	0.01 <= p < 0.05	0.287	Gamma; Lognormal	Gamma
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	19	6	32%	0.328	0.000	0.508	0.000	0.643	0.000	0.314	0.001	0.403	< 0.01	3.182	< 0.01	1.626	Nonparametric	Nonparametric
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_5_111	MW-31	Part 115	Copper	mg/L	19	10	53%	0.613	0.000	0.413	0.000	0.743	0.004	0.322	0.008	0.378	< 0.01	1.413	< 0.01	0.919	Nonparametric	Nonparametric
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	0.705	0.000	0.251	0.003	0.922	0.121	0.193	0.062	0.202	0.05 <= p < 0.10	0.740	0.05 <= p < 0.10	1.227	Gamma; Lognormal	Gamma
41_1_5_119	MW-31	Part 115	Nickel	mg/L	19	10	53%	0.603	0.000	0.356	0.002	0.899	0.245	0.225	0.208	0.227	>= 0.10	0.671	>= 0.10	2.244	Gamma; Lognormal	Nonparametric
41_1_5_123	MW-31	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	19	12	63%	0.955	0.777	0.161	0.844	0.940	0.638	0.169	0.791	0.184	>= 0.10	0.251	>= 0.10	0.231	Gamma; Lognormal; Normal	Nonparametric
41_1_5_129	MW-31	Part 115	Zinc	mg/L	19	9	47%	0.818	0.024	0.216	0.204	0.879	0.129	0.210	0.244	0.225	>= 0.10	0.517	>= 0.10	1.168	Gamma; Lognormal; Normal	Gamma
42_1_3_105	MW-32	Appendix III	Boron	mg/L	19	0	0%	0.848	0.006	0.226	0.012	0.888	0.030	0.212	0.024	0.223	0.01 <= p < 0.05	1.007	0.01 <= p < 0.05	0.244	Nonparametric	Nonparametric
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	19	0	0%	0.948	0.365	0.145	0.367	0.961	0.591	0.130	0.537	0.141	>= 0.10	0.338	>= 0.10	0.164	Gamma; Lognormal; Normal	Normal
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.945	0.322	0.165	0.187	0.899	0.047	0.164	0.196	0.150	>= 0.10	0.543	>= 0.10	0.162	Gamma; Lognormal; Normal	Normal
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	19	0	0%	0.933	0.200	0.180	0.107	0.924	0.136	0.207	0.032	0.195	0.05 <= p < 0.10	0.688	0.05 <= p < 0.10	0.146	Gamma; Lognormal; Normal	Normal
42_1_3_120	MW-32	Appendix III	pH (field)	su	19	0	0%	0.936	0.220	0.124	0.614	0.932	0.192	0.125	0.600	0.130	>= 0.10	0.448	>= 0.10	0.012	Gamma; Lognormal; Normal	Normal
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.875	0.018	0.166	0.184	0.910	0.075	0.173	0.143	0.133	>= 0.10	0.408	>= 0.10	1.336	Gamma; Lognormal; Normal	Gamma
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.961	0.583	0.131	0.528	0.960	0.569	0.139	0.429	0.144	>= 0.10	0.285	>= 0.10	0.140	Gamma; Lognormal; Normal	Normal
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.090		Nonparametric
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	0.414	0.000	0.415	0.000	0.646	0.000	0.283	0.000	0.337	< 0.01	2.746	< 0.01	0.397	Nonparametric	Nonparametric
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	19	0	0%	0.942	0.284	0.182	0.098	0.906	0.063	0.136	0.472	0.100	>= 0.10	0.246	>= 0.10	0.735	Gamma; Lognormal; Normal	Normal
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	19	18	95%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	19	16	84%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.355		Nonparametric
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.371	0.000	0.378	0.000	0.612	0.000	0.264	0.001	0.286	< 0.01	3.317	< 0.01	0.509	Nonparametric	Nonparametric
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	0.561	0.000	0.371	0.000	0.837	0.004	0.231	0.009	0.293	< 0.01	1.923	< 0.01	0.636	Nonparametric	Nonparametric

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.933	0.200	0.180	0.107	0.924	0.136	0.207	0.032	0.195	0.05 <= p < 0.10	0.688	0.05 <= p < 0.10	0.146	Gamma; Lognormal; Normal	Normal
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	19	14	74%	0.781	0.056	0.330	0.080	0.769	0.044	0.345	0.052	0.365	0.01 <= p < 0.05	0.721	0.01 <= p < 0.05	0.616	Lognormal; Normal	Nonparametric
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	19	0	0%	0.914	0.088	0.144	0.379	0.933	0.198	0.157	0.249	0.160	>= 0.10	0.445	>= 0.10	0.239	Gamma; Lognormal; Normal	Normal
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		4.032		Nonparametric
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	19	0	0%	0.956	0.501	0.129	0.551	0.936	0.225	0.137	0.461	0.127	>= 0.10	0.403	>= 0.10	0.439	Gamma; Lognormal; Normal	Normal
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	0.949	0.655	0.157	0.694	0.959	0.778	0.172	0.553	0.179	>= 0.10	0.279	>= 0.10	0.190	Gamma; Lognormal; Normal	Normal
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	19	15	79%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		1.061		Nonparametric
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_5_111	MW-32	Part 115	Copper	mg/L	19	11	58%	0.430	0.000	0.506	0.000	0.573	0.000	0.423	0.000	0.503	< 0.01	2.125	< 0.01	1.429	Nonparametric	Nonparametric
42_1_5_114	MW-32	Part 115	Iron	mg/L	19	0	0%	0.973	0.841	0.100	0.886	0.974	0.861	0.101	0.875	0.089	>= 0.10	0.175	>= 0.10	0.228	Gamma; Lognormal; Normal	Normal
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	0.427	0.000	0.410	0.000	0.688	0.000	0.280	0.000	0.341	< 0.01	3.480	< 0.01	0.920	Nonparametric	Nonparametric
42_1_5_123	MW-32	Part 115	Silver	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	19	19	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
42_1_5_129	MW-32	Part 115	Zinc	mg/L	19	0	0%	0.686	0.000	0.391	0.000	0.768	0.000	0.305	0.000	0.358	< 0.01	2.316	< 0.01	1.309	Nonparametric	Nonparametric
46_1_3_105	MW-36	Appendix III	Boron	mg/L	9	0	0%	0.891	0.205	0.225	0.209	0.903	0.271	0.217	0.259	0.234	>= 0.10	0.487	>= 0.10	0.331	Gamma; Lognormal; Normal	Normal
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	9	0	0%	0.956	0.757	0.156	0.764	0.952	0.711	0.170	0.642	0.171	>= 0.10	0.329	>= 0.10	0.114	Gamma; Lognormal; Normal	Normal
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.913	0.334	0.219	0.245	0.842	0.060	0.251	0.106	0.246	>= 0.10	0.537	>= 0.10	0.255	Gamma; Lognormal; Normal	Normal
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	9	0	0%	0.881	0.161	0.224	0.216	0.917	0.364	0.195	0.420	0.204	>= 0.10	0.458	>= 0.10	0.180	Gamma; Lognormal; Normal	Normal
46_1_3_120	MW-36	Appendix III	pH (field)	su	9	0	0%	0.893	0.213	0.248	0.113	0.854	0.081	0.271	0.055	0.250	>= 0.10	0.569	>= 0.10	0.108	Gamma; Lognormal; Normal	Normal
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	0.831	0.046	0.278	0.043	0.887	0.185	0.199	0.384	0.232	>= 0.10	0.540	>= 0.10	0.517	Gamma; Lognormal	Gamma
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.938	0.561	0.157	0.750	0.916	0.363	0.161	0.723	0.177	>= 0.10	0.329	>= 0.10	0.117	Gamma; Lognormal; Normal	Normal
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	9	0	0%	0.758	0.007	0.356	0.002	0.836	0.052	0.334	0.005	0.356	< 0.01	0.921	0.01 <= p < 0.05	0.548	Lognormal	Lognormal
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	9	0	0%	0.729	0.003	0.361	0.001	0.843	0.063	0.285	0.034	0.317	0.01 <= p < 0.05	0.914	0.01 <= p < 0.05	0.488	Lognormal	Lognormal
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	9	0	0%	0.931	0.487	0.173	0.613	0.927	0.457	0.164	0.693	0.171	>= 0.10	0.324	>= 0.10	0.233	Gamma; Lognormal; Normal	Normal
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	9	1	11%	0.805	0.032	0.271	0.087	0.946	0.668	0.186	0.568	0.231	>= 0.10	0.358	>= 0.10	0.750	Gamma; Lognormal; Normal	Normal
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	9	0	0%	0.905	0.284	0.173	0.614	0.987	0.990	0.124	0.955	0.150	>= 0.10	0.212	>= 0.10	0.468	Gamma; Lognormal; Normal	Normal
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	9	0	0%	0.807	0.024	0.283	0.036	0.827	0.042	0.272	0.053	0.288	0.01 <= p < 0.05	0.828	0.01 <= p < 0.05	0.228	Lognormal	Lognormal
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.881	0.161	0.224	0.216	0.917	0.364	0.195	0.420	0.204	>= 0.10	0.458	>= 0.10	0.180	Gamma; Lognormal; Normal	Normal
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	9	0	0%	0.847	0.069	0.224	0.213	0.972	0.910	0.117	0.977	0.165	>= 0.10	0.268	>= 0.10	0.809	Gamma; Lognormal; Normal	Normal
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	9	0	0%	0.975	0.935	0.140	0.877	0.939	0.570	0.189	0.468	0.168	>= 0.10	0.248	>= 0.10	0.387	Gamma; Lognormal; Normal	Normal
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	9	4	44%	0.922	0.543	0.233	0.500	0.943	0.688	0.208	0.675	0.235	>= 0.10	0.294	>= 0.10	0.428	Gamma; Lognormal; Normal	Normal
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	9	0	0%	0.924	0.424	0.224	0.218	0.956	0.753	0.171	0.624	0.191	>= 0.10	0.296	>= 0.10	0.306	Gamma; Lognormal; Normal	Normal
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	8	7	88%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	9	0	0%	0.911	0.321	0.197	0.396	0.933	0.508	0.180	0.548	0.190	>= 0.10	0.371	>= 0.10	0.214	Gamma; Lognormal; Normal	Normal
46_1_4_125	MW-36	Appendix IV	Thallium	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
46_1_5_111	MW-36	Part 115	Copper	mg/L	9	0	0%	0.833	0.049	0.234	0.164	0.941	0.591	0.172	0.619	0.200	>= 0.10	0.390	>= 0.10	0.799	Gamma; Lognormal; Normal	Normal
46_1_5_114	MW-36	Part 115	Iron	mg/L	9	0	0%	0.867	0.113	0.231	0.180	0.879	0.152	0.196	0.404	0.216	>= 0.10	0.592	>= 0.10	0.446	Gamma; Lognormal; Normal	Normal
46_1_5_119	MW-36	Part 115	Nickel	mg/L	9	0	0%	0.890	0.198	0.262	0.075	0.954	0.733	0.209	0.306	0.233	>= 0.10	0.379	>= 0.10	0.353	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
46_1_5_123	MW-36	Part 115	Silver	mg/L	9	1	11%	0.741	0.006	0.276	0.074	0.932	0.538	0.200	0.456	0.246	>= 0.10	0.446	>= 0.10	0.815	Gamma; Lognormal; Normal	Normal
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	9	0	0%	0.834	0.049	0.234	0.168	0.890	0.200	0.188	0.472	0.207	>= 0.10	0.543	>= 0.10	0.282	Gamma; Lognormal; Normal	Normal
46_1_5_129	MW-36	Part 115	Zinc	mg/L	9	0	0%	0.899	0.245	0.160	0.725	0.899	0.244	0.173	0.613	0.173	>= 0.10	0.384	>= 0.10	0.724	Gamma; Lognormal; Normal	Normal
47_1_3_105	MW-37	Appendix III	Boron	mg/L	9	0	0%	0.970	0.892	0.172	0.618	0.861	0.099	0.253	0.100	0.236	>= 0.10	0.417	>= 0.10	0.590	Gamma; Lognormal; Normal	Normal
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	9	0	0%	0.928	0.466	0.210	0.300	0.946	0.644	0.187	0.480	0.185	>= 0.10	0.360	>= 0.10	0.176	Gamma; Lognormal; Normal	Normal
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.940	0.579	0.186	0.494	0.894	0.220	0.268	0.061	0.225	>= 0.10	0.320	>= 0.10	0.738	Gamma; Lognormal; Normal	Normal
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	9	0	0%	0.935	0.532	0.172	0.622	0.921	0.399	0.201	0.371	0.186	>= 0.10	0.361	>= 0.10	0.166	Gamma; Lognormal; Normal	Normal
47_1_3_120	MW-37	Appendix III	pH (field)	su	9	0	0%	0.904	0.274	0.181	0.536	0.904	0.277	0.178	0.562	0.186	>= 0.10	0.461	>= 0.10	0.021	Gamma; Lognormal; Normal	Normal
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	0.894	0.218	0.187	0.483	0.848	0.071	0.229	0.190	0.210	>= 0.10	0.641	0.05 <= p < 0.10	0.414	Gamma; Lognormal; Normal	Normal
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.942	0.600	0.191	0.449	0.924	0.428	0.193	0.435	0.211	>= 0.10	0.369	>= 0.10	0.150	Gamma; Lognormal; Normal	Normal
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	9	1	11%	0.752	0.009	0.286	0.053	0.905	0.318	0.227	0.259	0.261	>= 0.10	0.587	>= 0.10	0.815	Gamma; Lognormal; Normal	Normal
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	9	0	0%	0.860	0.097	0.231	0.181	0.928	0.459	0.182	0.533	0.187	>= 0.10	0.357	>= 0.10	0.268	Gamma; Lognormal; Normal	Normal
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	9	0	0%	0.933	0.513	0.212	0.287	0.933	0.509	0.204	0.342	0.212	>= 0.10	0.370	>= 0.10	0.359	Gamma; Lognormal; Normal	Normal
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	9	5	56%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.158		Nonparametric
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	9	0	0%	0.734	0.004	0.290	0.028	0.879	0.154	0.216	0.260	0.256	>= 0.10	0.695	0.05 <= p < 0.10	0.637	Gamma; Lognormal	Gamma
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	9	0	0%	0.940	0.582	0.143	0.862	0.946	0.643	0.147	0.829	0.138	>= 0.10	0.240	>= 0.10	0.384	Gamma; Lognormal; Normal	Normal
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.935	0.532	0.172	0.622	0.921	0.399	0.201	0.371	0.186	>= 0.10	0.361	>= 0.10	0.166	Gamma; Lognormal; Normal	Normal
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	9	2	22%	0.496	0.000	0.473	0.000	0.783	0.028	0.269	0.131	0.386	< 0.01	1.192	< 0.01	1.579	Lognormal	Nonparametric
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	9	0	0%	0.857	0.088	0.192	0.442	0.947	0.660	0.133	0.916	0.143	>= 0.10	0.294	>= 0.10	0.445	Gamma; Lognormal; Normal	Normal
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	9	4	44%	0.791	0.069	0.293	0.171	0.935	0.632	0.229	0.529	0.266	>= 0.10	0.398	>= 0.10	0.680	Gamma; Lognormal; Normal	Normal
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	9	0	0%	0.930	0.482	0.182	0.524	0.943	0.613	0.128	0.942	0.153	>= 0.10	0.263	>= 0.10	0.370	Gamma; Lognormal; Normal	Normal
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.240		Nonparametric
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	9	0	0%	0.734	0.004	0.264	0.071	0.933	0.514	0.187	0.485	0.231	>= 0.10	0.502	>= 0.10	1.010	Gamma; Lognormal; Normal	Gamma
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
47_1_5_111	MW-37	Part 115	Copper	mg/L	9	0	0%	0.683	0.001	0.367	0.001	0.901	0.260	0.237	0.154	0.280	0.05 <= p < 0.10	0.614	>= 0.10	0.623	Gamma; Lognormal	Gamma
47_1_5_114	MW-37	Part 115	Iron	mg/L	9	1	11%	0.907	0.334	0.200	0.453	0.828	0.057	0.247	0.162	0.234	>= 0.10	0.532	>= 0.10	2.002	Gamma; Lognormal; Normal	Gamma
47_1_5_119	MW-37	Part 115	Nickel	mg/L	9	0	0%	0.951	0.697	0.139	0.884	0.903	0.267	0.199	0.382	0.170	>= 0.10	0.355	>= 0.10	0.396	Gamma; Lognormal; Normal	Normal
47_1_5_123	MW-37	Part 115	Silver	mg/L	9	8	89%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	9	5	56%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.428		Nonparametric
47_1_5_129	MW-37	Part 115	Zinc	mg/L	9	0	0%	0.911	0.323	0.160	0.731	0.945	0.636	0.178	0.563	0.188	>= 0.10	0.325	>= 0.10	0.337	Gamma; Lognormal; Normal	Normal
48_2_3_105	MW-38	Appendix III	Boron	mg/L	9	0	0%	0.968	0.877	0.160	0.731	0.752	0.006	0.248	0.113	0.214	>= 0.10	0.559	>= 0.10	1.523	Gamma; Lognormal; Normal	Gamma
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	9	0	0%	0.638	0.000	0.381	0.000	0.751	0.006	0.286	0.032	0.324	0.01 <= p < 0.05	1.330	< 0.01	0.840	Nonparametric	Nonparametric
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.894	0.221	0.186	0.490	0.854	0.083	0.219	0.246	0.194	>= 0.10	0.535	>= 0.10	0.709	Gamma; Lognormal; Normal	Normal
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	9	0	0%	0.828	0.042	0.223	0.221	0.927	0.457	0.166	0.674	0.189	>= 0.10	0.400	>= 0.10	0.350	Gamma; Lognormal; Normal	Normal
48_2_3_120	MW-38	Appendix III	pH (field)	su	9	0	0%	0.698	0.001	0.284	0.035	0.748	0.005	0.268	0.061	0.278	0.05 <= p < 0.10	1.111	< 0.01	0.127	Gamma; Lognormal	Gamma
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	0.972	0.913	0.159	0.736	0.731	0.003	0.322	0.008	0.264	0.05 <= p < 0.10	0.673	0.05 <= p < 0.10	0.856	Gamma; Normal	Normal
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.827	0.041	0.202	0.357	0.955	0.740	0.121	0.964	0.151	>= 0.10	0.316	>= 0.10	0.514	Gamma; Lognormal; Normal	Normal
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	9	2	22%	0.942	0.657	0.190	0.621	0.920	0.467	0.176	0.738	0.163	>= 0.10	0.281	>= 0.10	0.628	Gamma; Lognormal; Normal	Normal

(Table continues on next page)

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 3: Goodness-of-Fit Tests, Non-Detects Excluded *(continued)*

								Normal				Lognormal				Gamma						
								S-W		Lilliefors		S-W		Lilliefors		K-S		A-D				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Stat.	p-Value	Log-SD (NDs excl.)	ProUCL Distributions Fit	Recommended Distribution
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	9	0	0%	0.974	0.929	0.164	0.694	0.850	0.075	0.219	0.242	0.188	>= 0.10	0.365	>= 0.10	0.751	Gamma; Lognormal; Normal	Normal
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	9	0	0%	0.658	0.000	0.342	0.003	0.945	0.635	0.174	0.605	0.227	>= 0.10	0.530	>= 0.10	0.817	Gamma; Lognormal	Gamma
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	9	6	67%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.248		Nonparametric
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	9	4	44%	0.872	0.275	0.310	0.118	0.921	0.537	0.258	0.333	0.299	>= 0.10	0.389	>= 0.10	0.678	Gamma; Lognormal; Normal	Nonparametric
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	9	1	11%	0.865	0.136	0.257	0.125	0.903	0.307	0.228	0.253	0.256	>= 0.10	0.497	>= 0.10	0.659	Gamma; Lognormal; Normal	Normal
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	9	0	0%	0.587	0.000	0.383	0.000	0.859	0.094	0.212	0.291	0.277	0.05 <= p < 0.10	0.879	0.01 <= p < 0.05	0.765	Gamma; Lognormal	Gamma
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.828	0.042	0.223	0.221	0.927	0.457	0.166	0.674	0.189	>= 0.10	0.400	>= 0.10	0.350	Gamma; Lognormal; Normal	Normal
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	9	1	11%	0.779	0.017	0.291	0.045	0.976	0.939	0.130	0.956	0.177	>= 0.10	0.326	>= 0.10	1.236	Gamma; Lognormal	Gamma
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	9	0	0%	0.934	0.522	0.195	0.417	0.922	0.408	0.209	0.306	0.190	>= 0.10	0.384	>= 0.10	0.450	Gamma; Lognormal; Normal	Normal
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	9	4	44%	0.957	0.785	0.185	0.828	0.942	0.680	0.196	0.765	0.193	>= 0.10	0.259	>= 0.10	0.514	Gamma; Lognormal; Normal	Normal
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	9	0	0%	0.933	0.509	0.175	0.594	0.861	0.097	0.222	0.229	0.161	>= 0.10	0.299	>= 0.10	0.961	Gamma; Lognormal; Normal	Normal
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	8	5	62%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.184		Nonparametric
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	9	0	0%	0.941	0.591	0.203	0.354	0.906	0.289	0.186	0.492	0.135	>= 0.10	0.238	>= 0.10	0.808	Gamma; Lognormal; Normal	Normal
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	9	9	100%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		Nonparametric
48_2_5_111	MW-38	Part 115	Copper	mg/L	9	1	11%	0.842	0.078	0.292	0.043	0.950	0.711	0.183	0.597	0.207	>= 0.10	0.359	>= 0.10	1.154	Gamma; Lognormal; Normal	Gamma
48_2_5_114	MW-38	Part 115	Iron	mg/L	9	0	0%	0.738	0.004	0.278	0.044	0.990	0.997	0.103	0.997	0.165	>= 0.10	0.216	>= 0.10	1.379	Gamma; Lognormal	Gamma
48_2_5_119	MW-38	Part 115	Nickel	mg/L	9	0	0%	0.725	0.003	0.288	0.030	0.940	0.578	0.214	0.277	0.175	>= 0.10	0.376	>= 0.10	0.984	Gamma; Lognormal	Gamma
48_2_5_123	MW-38	Part 115	Silver	mg/L	9	6	67%	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		0.564		Nonparametric
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	9	2	22%	0.895	0.300	0.171	0.772	0.927	0.526	0.161	0.844	0.183	>= 0.10	0.315	>= 0.10	0.445	Gamma; Lognormal; Normal	Normal
48_2_5_129	MW-38	Part 115	Zinc	mg/L	9	1	11%	0.843	0.081	0.238	0.200	0.921	0.435	0.227	0.258	0.184	>= 0.10	0.343	>= 0.10	0.875	Gamma; Lognormal; Normal	Normal

Note: p-values above 0.05 suggest a fit to the tested distribution; a distribution passes its GOF test when at least one of the two p-values is above 0.05.

Table 4: Autocorrelation Tests, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	19	0	0%	0.220	0.301	
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	19	0	0%	0.158	0.456	
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.123	0.561	
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	19	0	0%	0.308	0.147	
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	-0.083	0.694	
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.184	0.385	
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.041	0.847	
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19	3	16%	0.255	0.264	
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	19	0	0%	-0.081	0.702	
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	19	0	0%	0.449	0.035	*
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	19	2	11%	0.373	0.094	
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	19	13	68%	0.025	0.939	
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	-0.098	0.644	
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	0.241	0.256	
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.308	0.147	
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	19	2	11%	0.257	0.248	
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	19	0	0%	0.194	0.361	
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	19	15	79%	0.221	0.532	
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	0.073	0.745	
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	19	13	68%	-0.747	0.021	*
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	19	0	0%	-0.020	0.924	
11_2_5_111	MW-01R	Part 115	Copper	mg/L	19	6	32%	0.212	0.393	
11_2_5_114	MW-01R	Part 115	Iron	mg/L	19	0	0%	0.381	0.073	
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	0.181	0.393	
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	19	2	11%	0.247	0.267	
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19	3	16%	0.253	0.267	
12_2_3_105	MW-02	Appendix III	Boron	mg/L	19	0	0%	-0.072	0.734	
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	19	0	0%	-0.005	0.980	
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.095	0.656	
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	19	0	0%	0.367	0.084	
12_2_3_120	MW-02	Appendix III	pH (field)	su	19	0	0%	0.067	0.751	
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	19	10	53%	-0.013	0.965	
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.172	0.419	
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	-0.149	0.513	
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	0.101	0.634	
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	19	0	0%	0.187	0.377	
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	19	2	11%	0.224	0.313	
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	19	13	68%	-0.265	0.412	
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.008	0.968	
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	19	0	0%	0.041	0.846	
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.367	0.084	
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	19	1	5%	-0.179	0.411	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	19	0	0%	-0.038	0.857	
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	19	14	74%	-0.171	0.614	
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	19	0	0%	0.108	0.613	
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	18	6	33%	0.057	0.823	
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	19	0	0%	0.088	0.677	
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	
12_2_5_111	MW-02	Part 115	Copper	mg/L	19	0	0%	-0.120	0.571	
12_2_5_114	MW-02	Part 115	Iron	mg/L	19	0	0%	0.130	0.542	
12_2_5_119	MW-02	Part 115	Nickel	mg/L	19	0	0%	0.150	0.481	
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	19	1	5%	0.078	0.720	
12_2_5_129	MW-02	Part 115	Zinc	mg/L	19	0	0%	0.219	0.302	
13_2_3_105	MW-03	Appendix III	Boron	mg/L	19	0	0%	-0.187	0.378	
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	19	0	0%	0.196	0.357	
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.504	0.018	*
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	19	0	0%	0.051	0.811	
13_2_3_120	MW-03	Appendix III	pH (field)	su	19	0	0%	-0.178	0.401	
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.634	0.003	**
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.672	0.002	**
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	19	13	68%	-0.085	0.792	
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	19	0	0%	0.215	0.311	
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	19	0	0%	-0.368	0.083	
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	19	12	63%	-0.602	0.051	
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.090	0.671	
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	19	0	0%	-0.147	0.489	
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.051	0.811	
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	19	18	95%	NA	NA	
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	0.406	0.056	
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	19	14	74%	-0.049	0.885	
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	19	13	68%	-0.207	0.522	
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	18	3	17%	-0.131	0.577	
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19	3	16%	0.252	0.270	
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	
13_2_5_111	MW-03	Part 115	Copper	mg/L	19	9	47%	-0.578	0.035	*
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	0.618	0.004	**
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	-0.013	0.952	
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	19	9	47%	0.034	0.901	
13_2_5_129	MW-03	Part 115	Zinc	mg/L	19	9	47%	0.158	0.564	
14_2_3_105	MW-04	Appendix III	Boron	mg/L	19	0	0%	0.621	0.003	**
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	19	0	0%	-0.114	0.593	
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.753	0.000	***
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	19	0	0%	0.091	0.670	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
14_2_3_120	MW-04	Appendix III	pH (field)	su	19	0	0%	0.350	0.100	
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.220	0.301	
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.022	0.918	
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	19	13	68%	-0.163	0.614	
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	-0.011	0.957	
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	-0.070	0.743	
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	19	16	84%	-0.362	0.321	
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.322	0.129	
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	0.332	0.118	
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.091	0.670	
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	19	15	79%	-0.703	0.047	*
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	19	0	0%	0.170	0.423	
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	19	15	79%	-0.240	0.497	
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	19	2	11%	0.294	0.187	
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	0.417	0.093	
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	19	5	26%	-0.217	0.368	
14_2_5_111	MW-04	Part 115	Copper	mg/L	19	13	68%	0.265	0.412	
14_2_5_114	MW-04	Part 115	Iron	mg/L	19	0	0%	0.458	0.031	*
14_2_5_119	MW-04	Part 115	Nickel	mg/L	19	0	0%	0.161	0.449	
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	19	10	53%	0.377	0.184	
14_2_5_129	MW-04	Part 115	Zinc	mg/L	19	10	53%	0.444	0.118	
16_1_3_105	MW-06	Appendix III	Boron	mg/L	19	0	0%	0.154	0.469	
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	19	0	0%	0.478	0.024	*
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.539	0.011	*
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	19	0	0%	0.218	0.305	
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	0.129	0.543	
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	19	2	11%	-0.087	0.694	
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.058	0.784	
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	19	16	84%	-0.368	0.313	
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	19	0	0%	-0.087	0.682	
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	19	0	0%	0.187	0.380	
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	19	16	84%	-0.156	0.669	
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.393	0.064	
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	19	0	0%	-0.029	0.892	
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.218	0.305	
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	19	10	53%	-0.081	0.777	
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	19	0	0%	0.398	0.061	
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	19	14	74%	-0.764	0.024	*
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	19	10	53%	-0.032	0.911	
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	19	4	21%	-0.345	0.141	
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	19	5	26%	-0.116	0.630	
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
16_1_5_111	MW-06	Part 115	Copper	mg/L	19	13	68%	-0.020	0.950	
16_1_5_114	MW-06	Part 115	Iron	mg/L	19	0	0%	0.566	0.008	**
16_1_5_119	MW-06	Part 115	Nickel	mg/L	19	6	32%	-0.080	0.748	
16_1_5_123	MW-06	Part 115	Silver	mg/L	19	18	95%	NA	NA	
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	19	14	74%	-0.092	0.786	
16_1_5_129	MW-06	Part 115	Zinc	mg/L	19	2	11%	-0.106	0.634	
17_1_3_105	MW-07	Appendix III	Boron	mg/L	19	0	0%	-0.129	0.542	
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	19	0	0%	-0.057	0.787	
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.808	0.000	***
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	19	4	21%	0.190	0.416	
17_1_3_120	MW-07	Appendix III	pH (field)	su	19	0	0%	0.127	0.549	
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.067	0.753	
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.287	0.177	
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	19	18	95%	NA	NA	
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	19	0	0%	0.249	0.242	
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	19	0	0%	0.529	0.013	*
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	19	14	74%	-0.126	0.709	
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.074	0.729	
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	19	0	0%	0.164	0.441	
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	19	4	21%	0.190	0.416	
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	19	0	0%	-0.215	0.312	
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	19	18	95%	NA	NA	
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	-0.241	0.279	
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	19	9	47%	-0.416	0.128	
17_1_5_111	MW-07	Part 115	Copper	mg/L	19	14	74%	-0.354	0.295	
17_1_5_114	MW-07	Part 115	Iron	mg/L	19	0	0%	0.401	0.059	
17_1_5_119	MW-07	Part 115	Nickel	mg/L	19	14	74%	-0.143	0.672	
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	19	12	63%	0.211	0.493	
17_1_5_129	MW-07	Part 115	Zinc	mg/L	19	10	53%	-0.321	0.258	
18_1_3_105	MW-08	Appendix III	Boron	mg/L	19	0	0%	0.165	0.437	
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	19	0	0%	0.364	0.086	
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.282	0.184	
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	19	0	0%	0.337	0.113	
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	0.062	0.771	
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	19	5	26%	0.366	0.129	
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.120	0.573	
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	19	11	58%	-0.048	0.871	
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	19	0	0%	0.490	0.021	*
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	19	0	0%	0.120	0.572	
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	19	18	95%	NA	NA	
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.652	0.002	**

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	19	0	0%	-0.125	0.557	
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.337	0.113	
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	19	12	63%	-0.296	0.338	
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	19	0	0%	0.518	0.015	*
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	19	17	89%	-0.500	0.157	
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	19	1	5%	0.120	0.580	
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19	5	26%	0.171	0.477	
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	-0.097	0.705	
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	
18_1_5_111	MW-08	Part 115	Copper	mg/L	19	6	32%	0.286	0.249	
18_1_5_114	MW-08	Part 115	Iron	mg/L	19	0	0%	0.601	0.005	**
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	0.206	0.333	
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	19	16	84%	-0.175	0.632	
18_1_5_129	MW-08	Part 115	Zinc	mg/L	19	3	16%	-0.310	0.175	
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	0.142	0.505	
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	19	0	0%	0.519	0.014	*
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.569	0.007	**
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	19	0	0%	0.069	0.745	
19_2_3_120	MW-09	Appendix III	pH (field)	su	19	0	0%	0.514	0.016	*
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.512	0.016	*
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.602	0.005	**
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	19	12	63%	-0.594	0.054	
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	19	0	0%	-0.232	0.274	
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	0.205	0.335	
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	19	14	74%	-0.160	0.635	
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.207	0.329	
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	0.017	0.937	
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.069	0.745	
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	19	17	89%	-0.500	0.157	
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	0.173	0.416	
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	19	14	74%	0.382	0.258	
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	19	0	0%	0.342	0.107	
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	19	17	89%	-0.500	0.157	
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	0.155	0.487	
19_2_5_111	MW-09	Part 115	Copper	mg/L	19	11	58%	0.096	0.746	
19_2_5_114	MW-09	Part 115	Iron	mg/L	19	0	0%	0.177	0.406	
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	-0.032	0.880	
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	19	15	79%	-0.186	0.598	
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	-0.120	0.650	
20_3_3_105	MW-10	Appendix III	Boron	mg/L	19	0	0%	0.654	0.002	**
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	19	0	0%	0.458	0.031	*

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.570	0.007	**
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	19	0	0%	0.552	0.009	**
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	0.089	0.677	
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.464	0.029	*
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.375	0.077	
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	19	15	79%	-0.363	0.304	
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	19	0	0%	0.373	0.079	
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	19	0	0%	0.554	0.009	**
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	19	9	47%	-0.236	0.388	
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.535	0.012	*
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	0.111	0.610	
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.552	0.009	**
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	19	17	89%	-0.500	0.157	
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	-0.117	0.582	
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	19	16	84%	-0.167	0.648	
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	19	0	0%	0.246	0.246	
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	19	15	79%	0.163	0.646	
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	0.031	0.886	
20_3_5_111	MW-10	Part 115	Copper	mg/L	19	16	84%	-0.659	0.071	
20_3_5_114	MW-10	Part 115	Iron	mg/L	19	0	0%	0.409	0.054	
20_3_5_119	MW-10	Part 115	Nickel	mg/L	19	7	37%	-0.207	0.418	
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	19	12	63%	0.143	0.643	
20_3_5_129	MW-10	Part 115	Zinc	mg/L	19	7	37%	0.244	0.340	
21_2_3_105	MW-11	Appendix III	Boron	mg/L	19	0	0%	0.551	0.009	**
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	19	0	0%	0.369	0.082	
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.068	0.748	
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	19	0	0%	0.447	0.035	*
21_2_3_120	MW-11	Appendix III	pH (field)	su	19	0	0%	0.245	0.248	
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	19	7	37%	0.602	0.019	*
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.026	0.903	
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	19	14	74%	-0.520	0.124	
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	19	0	0%	0.496	0.020	*
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	19	0	0%	0.352	0.097	
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	19	13	68%	-0.208	0.519	
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	19	16	84%	-0.381	0.297	
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	-0.082	0.701	
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	-0.177	0.406	
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.447	0.035	*
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19	3	16%	-0.078	0.734	
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	19	0	0%	0.401	0.059	
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	19	13	68%	-0.035	0.914	
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	19	2	11%	0.314	0.159	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	18	7	39%	-0.070	0.792	
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	0.222	0.331	
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	-0.164	0.484	
21_2_5_114	MW-11	Part 115	Iron	mg/L	19	0	0%	0.475	0.025	*
21_2_5_119	MW-11	Part 115	Nickel	mg/L	19	0	0%	-0.040	0.852	
21_2_5_123	MW-11	Part 115	Silver	mg/L	19	16	84%	-0.595	0.103	
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	19	13	68%	-0.277	0.390	
21_2_5_129	MW-11	Part 115	Zinc	mg/L	19	4	21%	0.218	0.353	
22_2_3_105	MW-12	Appendix III	Boron	mg/L	19	0	0%	0.182	0.392	
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	19	0	0%	0.035	0.869	
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.065	0.759	
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	19	0	0%	0.101	0.634	
22_2_3_120	MW-12	Appendix III	pH (field)	su	19	0	0%	0.160	0.452	
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.574	0.007	**
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.069	0.745	
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	19	0	0%	0.173	0.415	
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	19	0	0%	0.298	0.161	
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	19	0	0%	0.448	0.035	*
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	19	18	95%	NA	NA	
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	19	0	0%	0.284	0.181	
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	19	6	32%	-0.049	0.843	
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	0.170	0.479	
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.101	0.634	
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	19	6	32%	-0.024	0.924	
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	19	1	5%	0.159	0.463	
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	19	12	63%	0.366	0.236	
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	19	0	0%	0.093	0.661	
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	19	11	58%	0.084	0.776	
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	19	0	0%	-0.088	0.679	
22_2_5_111	MW-12	Part 115	Copper	mg/L	19	0	0%	0.422	0.047	*
22_2_5_114	MW-12	Part 115	Iron	mg/L	19	6	32%	0.299	0.229	
22_2_5_119	MW-12	Part 115	Nickel	mg/L	19	0	0%	0.333	0.117	
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	19	6	32%	0.038	0.879	
22_2_5_129	MW-12	Part 115	Zinc	mg/L	19	0	0%	0.565	0.008	**
26_1_3_105	MW-16	Appendix III	Boron	mg/L	9	0	0%	0.023	0.936	
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	9	0	0%	-0.327	0.251	
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	-0.052	0.854	
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	9	1	11%	-0.690	0.020	*
26_1_3_120	MW-16	Appendix III	pH (field)	su	9	0	0%	-0.148	0.602	
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	0.118	0.702	
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	-0.093	0.742	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	9	8	89%	NA	NA	
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	9	0	0%	-0.347	0.222	
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	9	0	0%	0.132	0.644	
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	9	8	89%	NA	NA	
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	9	0	0%	0.025	0.931	
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	9	0	0%	-0.003	0.991	
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	9	1	11%	-0.690	0.020	*
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	9	6	67%	-0.009	0.981	
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	9	0	0%	0.008	0.977	
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	9	7	78%	-0.500	0.157	
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	9	8	89%	NA	NA	
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	9	4	44%	0.047	0.889	
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	9	1	11%	0.199	0.501	
26_1_5_111	MW-16	Part 115	Copper	mg/L	9	4	44%	-0.369	0.275	
26_1_5_114	MW-16	Part 115	Iron	mg/L	9	0	0%	-0.311	0.274	
26_1_5_119	MW-16	Part 115	Nickel	mg/L	9	1	11%	0.137	0.644	
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	9	3	33%	-0.016	0.960	
26_1_5_129	MW-16	Part 115	Zinc	mg/L	9	2	22%	0.026	0.932	
27_1_3_105	MW-17	Appendix III	Boron	mg/L	9	0	0%	0.076	0.789	
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	9	0	0%	0.050	0.862	
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.317	0.264	
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	9	0	0%	0.147	0.604	
27_1_3_120	MW-17	Appendix III	pH (field)	su	9	0	0%	-0.181	0.524	
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	9	1	11%	-0.599	0.043	*
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.235	0.408	
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	9	7	78%	-0.500	0.157	
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	9	0	0%	0.116	0.683	
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	9	0	0%	-0.128	0.653	
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	9	8	89%	NA	NA	
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	9	8	89%	NA	NA	
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	9	0	0%	-0.367	0.197	
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	9	0	0%	-0.348	0.221	
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.147	0.604	
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	9	1	11%	-0.117	0.692	
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	9	0	0%	0.161	0.571	
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	9	6	67%	-0.498	0.172	
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	9	0	0%	-0.206	0.469	
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	9	3	33%	-0.296	0.360	
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	9	0	0%	-0.133	0.640	
27_1_5_111	MW-17	Part 115	Copper	mg/L	9	1	11%	-0.083	0.778	
27_1_5_114	MW-17	Part 115	Iron	mg/L	9	0	0%	-0.149	0.600	
27_1_5_119	MW-17	Part 115	Nickel	mg/L	9	0	0%	-0.246	0.386	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	9	0	0%	0.200	0.483	
27_1_5_129	MW-17	Part 115	Zinc	mg/L	9	0	0%	0.179	0.528	
28_1_3_105	MW-18	Appendix III	Boron	mg/L	19	0	0%	0.685	0.001	**
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	19	0	0%	0.284	0.182	
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.129	0.543	
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	19	0	0%	0.216	0.309	
28_1_3_120	MW-18	Appendix III	pH (field)	su	19	0	0%	0.276	0.193	
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.161	0.448	
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.522	0.014	*
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	0.139	0.543	
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	19	0	0%	0.284	0.181	
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	0.136	0.522	
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	19	15	79%	-0.236	0.504	
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	19	7	37%	0.417	0.103	
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	19	16	84%	-0.009	0.980	
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	19	0	0%	0.648	0.002	**
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.216	0.309	
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	19	12	63%	-0.189	0.540	
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	19	0	0%	0.273	0.198	
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	19	15	79%	-0.068	0.847	
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	19	0	0%	0.268	0.208	
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	-0.016	0.954	
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	19	0	0%	0.170	0.424	
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	0.064	0.765	
28_1_5_114	MW-18	Part 115	Iron	mg/L	19	0	0%	0.424	0.046	*
28_1_5_119	MW-18	Part 115	Nickel	mg/L	19	0	0%	0.365	0.086	
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	19	17	89%	-0.500	0.157	
28_1_5_129	MW-18	Part 115	Zinc	mg/L	19	0	0%	0.335	0.114	
29_1_3_105	MW-19	Appendix III	Boron	mg/L	19	0	0%	0.178	0.403	
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	19	0	0%	0.384	0.071	
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.575	0.007	**
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	19	0	0%	0.247	0.244	
29_1_3_120	MW-19	Appendix III	pH (field)	su	19	0	0%	-0.153	0.472	
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.088	0.679	
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.693	0.001	**
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	19	13	68%	0.263	0.415	
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	19	0	0%	0.524	0.014	*
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	19	0	0%	0.379	0.075	
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	19	3	16%	0.306	0.180	
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	19	17	89%	-0.500	0.157	
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	0.335	0.177	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	19	1	5%	0.020	0.928	
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.247	0.244	
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	19	0	0%	0.393	0.065	
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	19	17	89%	-0.500	0.157	
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	19	0	0%	0.300	0.157	
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	0.332	0.226	
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	19	11	58%	-0.035	0.905	
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	
29_1_5_111	MW-19	Part 115	Copper	mg/L	19	15	79%	-0.252	0.476	
29_1_5_114	MW-19	Part 115	Iron	mg/L	19	0	0%	0.618	0.004	**
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	0.094	0.666	
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	19	14	74%	-0.206	0.543	
29_1_5_129	MW-19	Part 115	Zinc	mg/L	19	10	53%	0.432	0.128	
30_1_3_105	MW-20	Appendix III	Boron	mg/L	19	0	0%	0.273	0.199	
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	19	0	0%	0.215	0.312	
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.676	0.001	**
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	0.060	0.778	
30_1_3_120	MW-20	Appendix III	pH (field)	su	19	0	0%	0.016	0.940	
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.532	0.012	*
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.220	0.299	
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	0.031	0.907	
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	19	0	0%	0.123	0.562	
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	19	0	0%	0.218	0.306	
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	19	18	95%	NA	NA	
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	19	10	53%	-0.025	0.930	
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	19	0	0%	0.422	0.047	*
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.060	0.778	
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	19	0	0%	0.064	0.763	
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	19	0	0%	0.356	0.094	
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	19	14	74%	-0.211	0.532	
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	19	0	0%	0.331	0.119	
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	18	9	50%	0.121	0.671	
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	19	11	58%	-0.281	0.342	
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	-0.033	0.883	
30_1_5_114	MW-20	Part 115	Iron	mg/L	19	0	0%	0.262	0.218	
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	0.061	0.773	
30_1_5_129	MW-20	Part 115	Zinc	mg/L	19	0	0%	0.169	0.426	
38_1_3_105	MW-28	Appendix III	Boron	mg/L	9	0	0%	0.086	0.763	
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	9	0	0%	0.107	0.706	
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.481	0.091	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	9	0	0%	0.011	0.970	
38_1_3_120	MW-28	Appendix III	pH (field)	su	9	0	0%	-0.481	0.091	
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	-0.069	0.824	
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.497	0.081	
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	9	0	0%	0.209	0.463	
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	9	0	0%	-0.314	0.270	
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	9	0	0%	0.092	0.746	
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	9	5	56%	-0.317	0.370	
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	9	0	0%	-0.081	0.776	
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	9	0	0%	0.191	0.502	
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.011	0.970	
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	9	0	0%	0.200	0.481	
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	9	0	0%	0.089	0.755	
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	9	3	33%	-0.057	0.859	
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	9	0	0%	0.283	0.320	
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	-0.484	0.134	
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	9	0	0%	-0.048	0.867	
38_1_5_111	MW-28	Part 115	Copper	mg/L	9	1	11%	0.132	0.655	
38_1_5_114	MW-28	Part 115	Iron	mg/L	9	0	0%	0.311	0.274	
38_1_5_119	MW-28	Part 115	Nickel	mg/L	9	0	0%	0.141	0.621	
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	9	2	22%	-0.034	0.911	
38_1_5_129	MW-28	Part 115	Zinc	mg/L	9	0	0%	0.042	0.883	
40_1_3_105	MW-30	Appendix III	Boron	mg/L	19	0	0%	-0.060	0.778	
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	19	0	0%	-0.060	0.776	
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.832	0.000	***
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	19	0	0%	-0.252	0.236	
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	0.006	0.979	
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.021	0.921	
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.659	0.002	**
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	19	15	79%	-0.289	0.414	
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	0.195	0.381	
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	19	0	0%	0.194	0.361	
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	19	15	79%	-0.586	0.097	
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	19	0	0%	-0.042	0.844	
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	-0.074	0.728	
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.252	0.236	
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	19	17	89%	-0.500	0.157	
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	-0.123	0.562	
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	19	17	89%	-0.500	0.157	
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19	3	16%	-0.125	0.585	
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	-0.358	0.208	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	-0.121	0.635	
40_1_5_111	MW-30	Part 115	Copper	mg/L	19	13	68%	-0.045	0.890	
40_1_5_114	MW-30	Part 115	Iron	mg/L	19	0	0%	-0.031	0.882	
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19	3	16%	-0.065	0.777	
40_1_5_123	MW-30	Part 115	Silver	mg/L	19	18	95%	NA	NA	
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	19	16	84%	-0.667	0.068	
40_1_5_129	MW-30	Part 115	Zinc	mg/L	19	10	53%	-0.250	0.379	
41_1_3_105	MW-31	Appendix III	Boron	mg/L	19	0	0%	0.637	0.003	**
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	19	0	0%	0.232	0.274	
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.505	0.017	*
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	19	0	0%	0.737	0.001	***
41_1_3_120	MW-31	Appendix III	pH (field)	su	19	0	0%	0.042	0.843	
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.170	0.423	
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.366	0.085	
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	19	7	37%	0.323	0.206	
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	0.440	0.038	*
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	19	0	0%	0.191	0.367	
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	19	16	84%	-0.248	0.497	
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	19	18	95%	NA	NA	
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	19	0	0%	0.231	0.277	
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	0.152	0.504	
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.737	0.001	***
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	19	14	74%	0.304	0.369	
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	19	0	0%	0.431	0.043	*
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	19	14	74%	-0.171	0.612	
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	0.301	0.157	
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	-0.352	0.183	
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	19	6	32%	-0.071	0.776	
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	19	18	95%	NA	NA	
41_1_5_111	MW-31	Part 115	Copper	mg/L	19	10	53%	0.223	0.432	
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	0.451	0.034	*
41_1_5_119	MW-31	Part 115	Nickel	mg/L	19	10	53%	-0.144	0.612	
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	19	12	63%	-0.006	0.985	
41_1_5_129	MW-31	Part 115	Zinc	mg/L	19	9	47%	0.296	0.280	
42_1_3_105	MW-32	Appendix III	Boron	mg/L	19	0	0%	0.210	0.323	
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	19	0	0%	0.480	0.024	*
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.292	0.169	
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	19	0	0%	0.218	0.305	
42_1_3_120	MW-32	Appendix III	pH (field)	su	19	0	0%	-0.040	0.852	
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.362	0.088	
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.422	0.047	*
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	19	15	79%	0.004	0.991	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	-0.031	0.884	
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	19	0	0%	0.357	0.093	
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	19	18	95%	NA	NA	
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	19	16	84%	-0.137	0.707	
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	-0.093	0.662	
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	-0.049	0.818	
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.218	0.305	
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	19	14	74%	0.425	0.209	
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	19	0	0%	0.089	0.674	
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	19	15	79%	-0.083	0.814	
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	19	0	0%	0.482	0.023	*
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	-0.045	0.870	
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	19	15	79%	-0.082	0.816	
42_1_5_111	MW-32	Part 115	Copper	mg/L	19	11	58%	-0.153	0.604	
42_1_5_114	MW-32	Part 115	Iron	mg/L	19	0	0%	0.639	0.003	**
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	-0.071	0.737	
42_1_5_129	MW-32	Part 115	Zinc	mg/L	19	0	0%	0.304	0.152	
46_1_3_105	MW-36	Appendix III	Boron	mg/L	9	0	0%	-0.105	0.711	
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	9	0	0%	0.447	0.116	
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.536	0.059	
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	9	0	0%	-0.161	0.572	
46_1_3_120	MW-36	Appendix III	pH (field)	su	9	0	0%	0.088	0.757	
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	-0.352	0.216	
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	-0.025	0.931	
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	9	0	0%	-0.447	0.116	
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	9	0	0%	0.529	0.063	
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	9	0	0%	0.032	0.911	
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	9	8	89%	NA	NA	
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	9	1	11%	-0.073	0.805	
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	9	0	0%	0.147	0.606	
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	9	0	0%	0.041	0.886	
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	-0.161	0.572	
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	9	0	0%	0.024	0.933	
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	9	0	0%	-0.075	0.791	
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	9	4	44%	-0.848	0.012	*
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	9	0	0%	0.011	0.969	
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	8	7	88%	NA	NA	
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	9	0	0%	0.272	0.339	
46_1_5_111	MW-36	Part 115	Copper	mg/L	9	0	0%	0.320	0.260	
46_1_5_114	MW-36	Part 115	Iron	mg/L	9	0	0%	0.165	0.562	
46_1_5_119	MW-36	Part 115	Nickel	mg/L	9	0	0%	0.428	0.132	
46_1_5_123	MW-36	Part 115	Silver	mg/L	9	1	11%	0.018	0.952	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	9	0	0%	-0.511	0.072	
46_1_5_129	MW-36	Part 115	Zinc	mg/L	9	0	0%	0.241	0.396	
47_1_3_105	MW-37	Appendix III	Boron	mg/L	9	0	0%	-0.075	0.793	
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	9	0	0%	-0.519	0.068	
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.377	0.185	
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	9	0	0%	-0.090	0.751	
47_1_3_120	MW-37	Appendix III	pH (field)	su	9	0	0%	0.068	0.811	
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	-0.609	0.032	*
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	-0.382	0.179	
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	9	1	11%	0.015	0.960	
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	9	0	0%	0.201	0.479	
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	9	0	0%	0.119	0.676	
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	9	8	89%	NA	NA	
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	9	5	56%	0.164	0.642	
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	9	0	0%	-0.371	0.191	
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	9	0	0%	0.087	0.759	
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	-0.090	0.751	
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	9	2	22%	-0.185	0.550	
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	9	0	0%	-0.027	0.924	
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	9	4	44%	-0.460	0.173	
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	9	0	0%	-0.020	0.945	
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	-0.711	0.044	*
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	9	0	0%	-0.009	0.975	
47_1_5_111	MW-37	Part 115	Copper	mg/L	9	0	0%	-0.180	0.528	
47_1_5_114	MW-37	Part 115	Iron	mg/L	9	1	11%	-0.041	0.890	
47_1_5_119	MW-37	Part 115	Nickel	mg/L	9	0	0%	0.501	0.078	
47_1_5_123	MW-37	Part 115	Silver	mg/L	9	8	89%	NA	NA	
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	9	5	56%	-0.707	0.046	*
47_1_5_129	MW-37	Part 115	Zinc	mg/L	9	0	0%	0.343	0.227	
48_2_3_105	MW-38	Appendix III	Boron	mg/L	9	0	0%	0.254	0.372	
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	9	0	0%	-0.179	0.529	
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.501	0.078	
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	9	0	0%	0.000	1.000	
48_2_3_120	MW-38	Appendix III	pH (field)	su	9	0	0%	-0.055	0.846	
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	-0.030	0.916	
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	-0.120	0.674	
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	9	2	22%	0.049	0.874	
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	9	0	0%	0.208	0.464	
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	9	0	0%	-0.095	0.739	
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	9	6	67%	-0.591	0.106	
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	9	4	44%	-0.676	0.045	*
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	9	1	11%	-0.463	0.117	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 4: Autocorrelation Tests, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Autocorrelation	Box-Ljung p-value	Sig.
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	9	0	0%	-0.093	0.742	
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.000	1.000	
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	9	1	11%	-0.073	0.805	
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	9	0	0%	-0.376	0.186	
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	9	4	44%	0.075	0.823	
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	9	0	0%	0.157	0.580	
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	8	5	62%	0.000	1.000	
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	9	0	0%	0.004	0.989	
48_2_5_111	MW-38	Part 115	Copper	mg/L	9	1	11%	-0.234	0.429	
48_2_5_114	MW-38	Part 115	Iron	mg/L	9	0	0%	-0.320	0.261	
48_2_5_119	MW-38	Part 115	Nickel	mg/L	9	0	0%	-0.047	0.869	
48_2_5_123	MW-38	Part 115	Silver	mg/L	9	6	67%	-0.601	0.100	
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	9	2	22%	-0.001	0.998	
48_2_5_129	MW-38	Part 115	Zinc	mg/L	9	1	11%	0.023	0.939	

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 5: Outlier Counts by Date

Date	Count
2022-11-28	1
2022-11-30	2
2023-01-03	6
2023-01-04	8
2023-01-05	1
2023-02-06	1
2023-02-08	1
2023-03-13	2
2023-03-14	1
2023-04-18	4
2023-05-23	2
2023-06-28	1
2023-08-07	1
2023-08-08	1
2023-10-24	3
2024-02-12	5
2024-02-13	7
2024-04-07	6
2024-07-17	1
2024-07-18	1
2024-10-15	1
2024-10-16	3
2025-02-25	3
2025-02-26	1
2025-04-20	1
2025-04-21	1
2025-08-12	1
2025-08-13	1
2025-10-21	8
2025-10-22	11
2025-10-23	3
2026-02-16	8
2026-02-17	3
2026-02-18	7
2026-02-19	3
2026-04-21	6
2026-04-22	21

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	19	2023-01-03	NA	6.02
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19	3	16%	16	2026-04-22	1	0.00290
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	19	0	0%	19	2024-02-13	1	0.00410
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	19	13	68%	6	2026-04-22	1	0.00190
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	19	2024-02-13	1	0.0220
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	19	2026-04-22	1	0.0840
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	17	2026-04-22	1	0.00580
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	19	0	0%	19	2026-04-22	1	0.00260
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	19	2026-04-22	1	0.0680
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19	3	16%	16	2026-04-22	1	0.140
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	19	2023-02-08	50	67.0
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	19	10	53%	9	2026-04-22	10	51.0
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	16	2023-04-18	5	0.000630
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	19	2024-02-13	1	0.000440
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	19	13	68%	6	2023-10-24	1	0.000490
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	19	0	0%	19	2026-02-17	1	0.0290
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	19	2022-11-28	100	300
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	19	0	0%	19	2023-01-04	5	1.60
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	19	13	68%	6	2023-04-18	5	0.000450
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	19	2023-01-04	5	1.60
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	19	2023-01-04	1	0.0650
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	19	14	74%	5	2023-10-24	1	240
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	19	2023-01-04	1	5.90
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	18	2023-01-04	1	0.0150
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	19	0	0%	19	2025-10-22	50	560
14_2_3_120	MW-04	Appendix III	pH (field)	su	19	0	0%	19	2025-10-22	NA	6.78
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	19	2026-02-19	1	0.00590
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	19	2023-01-04	1	0.460
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	19	2025-10-22	1	0.00250
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	19	5	26%	14	2025-04-21	1	0.00120
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	19	2023-02-06	NA	6.42
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	19	2	11%	17	2026-04-22	10	100
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	19	0	0%	19	2026-04-22	1	0.00340
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	19	10	53%	9	2026-04-22	1	0.00510
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	19	5	26%	14	2024-02-13	1	0.000470
16_1_5_111	MW-06	Part 115	Copper	mg/L	19	13	68%	6	2026-04-22	1	0.00330
16_1_5_119	MW-06	Part 115	Nickel	mg/L	19	6	32%	13	2026-04-22	1	0.00380
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	19	14	74%	5	2026-04-22	1	0.00390
17_1_3_105	MW-07	Appendix III	Boron	mg/L	19	0	0%	19	2026-04-21	10	6.90
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	19	2023-01-04	4	470
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	19	14	74%	5	2026-02-19	1	0.000120
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	19	2024-07-17	1	0.000740
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	17	2023-08-07	1	2.36

(Table continues on next page)

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
17_1_5_111	MW-07	Part 115	Copper	mg/L	19	14	74%	5	2025-02-26	1	0.000620
17_1_5_119	MW-07	Part 115	Nickel	mg/L	19	14	74%	5	2024-10-15	1	0.000710
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	19	2023-01-05	NA	6.21
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	19	12	63%	7	2024-10-16	1	0.00290
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	12	2024-02-13	1	0.000340
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	19	2024-10-16	1	0.0130
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	19	2026-04-22	10	2.30
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	19	2023-01-04	5	2.40
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	19	2026-04-22	1	0.00640
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	19	2026-04-22	1	0.540
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	17	2026-02-17	1	0.00350
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	19	2025-02-25	1	0.100
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	11	2026-02-17	1	0.120
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	19	2023-05-23	NA	8.81
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	19	15	79%	4	2023-04-18	5	0.000340
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	18	2023-05-23	1	0.00180
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	19	2023-03-14	50	1.60
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	19	16	84%	3	2024-04-07	1	1900
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	18	2024-02-13	1	0.000830
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	19	2023-10-24	4	1800
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	19	13	68%	6	2024-04-07	1	0.000440
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	19	2023-01-03	1	0.00860
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	19	2025-10-23	1	0.00260
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19	3	16%	16	2023-01-03	1	0.0680
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	19	13	68%	6	2024-04-07	1	1100
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	16	2024-02-13	1	0.000710
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	15	2023-01-03	1	0.0190
21_2_5_119	MW-11	Part 115	Nickel	mg/L	19	0	0%	19	2025-10-23	1	0.0150
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	19	13	68%	6	2024-04-07	1	0.00300
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	19	0	0%	19	2025-10-22	1	0.00640
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	19	0	0%	19	2025-08-13	1	0.0110
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	14	2025-10-22	1	0.00280
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	19	0	0%	19	2024-10-16	1	0.0180
22_2_5_114	MW-12	Part 115	Iron	mg/L	19	6	32%	13	2025-10-22	1	0.920
22_2_5_119	MW-12	Part 115	Nickel	mg/L	19	0	0%	19	2025-10-22	1	0.00730
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	9	0	0%	9	2026-02-18	1	0.00240
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	9	0	0%	9	2026-02-18	1	0.0130
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	9	0	0%	9	2026-02-18	1	0.00150
27_1_5_111	MW-17	Part 115	Copper	mg/L	9	1	11%	8	2026-02-18	1	0.00630
27_1_5_119	MW-17	Part 115	Nickel	mg/L	9	0	0%	9	2026-02-18	1	0.00860
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	16	2026-04-22	1	0.00110
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	19	2026-04-22	1	0.0880
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	9	2023-04-18	NA	1.27

(Table continues on next page)

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	19	0	0%	19	2026-04-22	1	0.00660
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	19	2026-04-22	1	0.00410
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	13	2023-01-03	1	0.000530
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	19	11	58%	8	2026-02-18	1	0.00360
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	18	2024-07-18	1	0.0170
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	19	0	0%	19	2023-06-28	1	58.0
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	19	2022-11-30	25	0.550
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	11	2025-10-22	1	0.000650
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	19	10	53%	9	2026-02-19	1	0.00190
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	19	2022-11-30	25	0.550
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	19	0	0%	19	2025-10-22	1	0.00780
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	17	2025-10-22	1	0.00330
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	19	2025-10-22	1	0.0340
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	9	3	33%	6	2024-04-07	1	240
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	6	2025-10-23	1	1.26
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	9	0	0%	9	2026-02-18	1	0.00170
40_1_3_105	MW-30	Appendix III	Boron	mg/L	19	0	0%	19	2023-03-13	50	3.50
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	19	2023-01-03	NA	6.48
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	17	2025-10-21	1	0.00800
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	19	0	0%	19	2025-10-21	1	0.0230
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	19	2025-02-25	5	0.0460
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	19	2023-03-13	50	0.270
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19	3	16%	16	2025-10-21	1	0.0320
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	12	2025-10-21	1	0.00150
40_1_5_111	MW-30	Part 115	Copper	mg/L	19	13	68%	6	2025-10-21	1	0.0130
40_1_5_114	MW-30	Part 115	Iron	mg/L	19	0	0%	19	2025-04-20	10	17.0
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19	3	16%	16	2025-02-25	5	0.110
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	19	16	84%	3	2025-10-21	1	0.0240
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	19	0	0%	19	2026-02-16	5	330
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	19	2025-08-12	10	170
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	19	2026-02-16	50	650
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	19	2026-02-16	3	1500
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	19	2026-02-16	1	0.00820
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	16	2026-02-16	1	0.00110
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	19	2026-02-16	1	0.0130
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	11	2023-08-08	1	1.23
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	19	6	32%	13	2026-02-16	1	0.0380
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	19	2026-02-16	1	5.70
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	19	2024-02-12	1	0.00240
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	19	2024-02-12	1	0.00300
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	19	2026-04-21	1	0.00280
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	19	15	79%	4	2024-04-07	1	1900
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	19	15	79%	4	2024-02-12	1	0.00100

(Table continues on next page)

Table 6: Outliers Identified at the 1% Significance Level, Non-Detects Excluded *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	No. Detects	Date	Dilution	Value
42_1_5_111	MW-32	Part 115	Copper	mg/L	19	11	58%	8	2024-02-12	1	0.0160
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	19	2024-02-12	1	0.0230
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	9	2	22%	7	2025-10-21	1	0.0100
47_1_5_111	MW-37	Part 115	Copper	mg/L	9	0	0%	9	2025-10-21	1	0.0410
48_2_3_120	MW-38	Appendix III	pH (field)	su	9	0	0%	9	2026-04-21	NA	13.0
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	9	0	0%	9	2026-04-21	5	0.570
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	9	0	0%	9	2026-04-21	5	0.00310
48_2_5_119	MW-38	Part 115	Nickel	mg/L	9	0	0%	9	2026-04-21	5	0.0270

Table 7: Seasonality Tests

						Full										Without Non-Detects									
						Sample Size					p-Value					Sample Size					p-Value				
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis		ANOVA		Log ANOVA		Winter	Spring	Summer	Fall	Total	Kruskal-Wallis		ANOVA		Log ANOVA	
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.011	*	0.002	**	0.012	*	5	6	4	4	19	0.011	*	0.002	**	0.012	*
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.010	*	0.008	**	0.003	**	5	6	4	4	19	0.010	*	0.008	**	0.003	**
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.023	*	0.016	*	0.038	*	5	6	4	4	19	0.023	*	0.016	*	0.038	*
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.006	**	0.001	**	0.008	**	5	6	4	4	19	0.006	**	0.001	**	0.008	**
11_2_3_120	MW-01R	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.709		0.443		0.442		5	6	4	4	19	0.709		0.443		0.442	
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.010	*	0.002	**	0.004	**	5	6	4	4	19	0.010	*	0.002	**	0.004	**
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.098		0.110		0.115		5	6	4	4	19	0.098		0.110		0.115	
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	16%	5	6	4	4	19	0.834		0.436		0.555		3	5	4	4	16	0.966		0.474		0.662	
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.114		0.206		0.108		5	6	4	4	19	0.114		0.206		0.108	
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.039	*	0.055		0.030	*	5	6	4	4	19	0.039	*	0.055		0.030	*
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	11%	5	6	4	4	19	0.159		0.124		0.293		5	5	4	3	17	0.108		0.084		0.116	
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	68%	5	6	4	4	19	0.910		0.596		0.814		2	1	1	2	6	0.312		0.017	*	0.254	
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.020	*	0.462		0.170		5	6	4	4	19	0.020	*	0.462		0.170	
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.565		0.680		0.803		5	6	4	4	19	0.565		0.680		0.803	
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.006	**	0.001	**	0.008	**	5	6	4	4	19	0.006	**	0.001	**	0.008	**
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	11%	5	6	4	4	19	0.475		0.949		0.827		4	5	4	4	17	0.393		0.943		0.814	
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.011	*	0.006	**	0.029	*	5	6	4	4	19	0.011	*	0.006	**	0.029	*
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	79%	5	6	4	4	19	0.957		0.976		0.949		1	1	1	1	4	0.392		NA		NA	
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	11%	5	6	4	4	19	0.613		0.359		0.389		5	4	4	4	17	0.458		0.342		0.256	
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	68%	5	6	4	4	19	0.701		0.703		0.784		2	1	2	1	6	0.463		0.840		0.859	
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	0%	5	6	4	4	19	0.622		0.927		0.963		5	6	4	4	19	0.622		0.927		0.963	
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	100%	5	6	4	4	19	0.445		0.477		0.477		NA	NA	NA	NA	NA	NA		NA		NA	
11_2_5_111	MW-01R	Part 115	Copper	mg/L	32%	5	6	4	4	19	0.346		0.869		0.769		3	2	4	4	13	0.226		0.262		0.265	
11_2_5_114	MW-01R	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.072		0.072		0.083		5	6	4	4	19	0.072		0.072		0.083	
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.547		0.713		0.718		5	6	4	4	19	0.547		0.713		0.718	
11_2_5_123	MW-01R	Part 115	Silver	mg/L	100%	5	6	4	4	19	0.313		0.333		0.333		NA	NA	NA	NA	NA	NA		NA		NA	
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	11%	5	6	4	4	19	0.035	*	0.001	**	0.026	*	4	5	4	4	17	0.054		0.003	**	0.036	*
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	16%	5	6	4	4	19	0.828		0.862		0.987		5	4	3	4	16	0.987		0.700		0.989	
12_2_3_105	MW-02	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.456		0.424		0.414		5	6	4	4	19	0.456		0.424		0.414	
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.313		0.266		0.260		5	6	4	4	19	0.313		0.266		0.260	
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.582		0.514		0.506		5	6	4	4	19	0.582		0.514		0.506	
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.541		0.892		0.957		5	6	4	4	19	0.541		0.892		0.957	
12_2_3_120	MW-02	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.407		0.447		0.449		5	6	4	4	19	0.407		0.447		0.449	
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	53%	5	6	4	4	19	0.887		0.520		0.687		2	2	2	3	9	0.577		0.384		0.479	
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.250		0.235		0.232		5	6	4	4	19	0.250		0.235		0.232	
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	16%	5	6	4	4	19	0.480		0.413		0.567		3	5	4	4	16	0.457		0.584		0.611	
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.806		0.977		0.755		5	6	4	4	19	0.806		0.977		0.755	
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.149		0.295		0.379		5	6	4	4	19	0.149		0.295		0.379	
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	11%	5	6	4	4	19	0.596		0.553		0.634		4	5	4	4	17	0.536		0.550		0.469	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	68%	5	6	4	4	19	0.759	0.684	0.913	3	2	0	1	6	0.252	0.001 **	0.041 *
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.265	0.476	0.810	5	6	4	4	19	0.265	0.476	0.810
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.597	0.729	0.855	5	6	4	4	19	0.597	0.729	0.855
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.541	0.892	0.957	5	6	4	4	19	0.541	0.892	0.957
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	5%	5	6	4	4	19	0.412	0.503	0.947	4	6	4	4	18	0.127	0.189	0.396
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.218	0.152	0.167	5	6	4	4	19	0.218	0.152	0.167
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	74%	5	6	4	4	19	0.957	0.976	0.972	1	2	1	1	5	0.849	0.957	0.964
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	0%	5	6	4	4	19	0.102	0.143	0.116	5	6	4	4	19	0.102	0.143	0.116
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	33%	4	6	4	4	18	0.204	0.100	0.238	2	4	3	3	12	0.711	0.659	0.795
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	0%	5	6	4	4	19	0.365	0.413	0.419	5	6	4	4	19	0.365	0.413	0.419
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	95%	5	6	4	4	19	0.873	0.826	0.917	0	0	0	1	1	NA	NA	NA
12_2_5_111	MW-02	Part 115	Copper	mg/L	0%	5	6	4	4	19	0.812	0.629	0.992	5	6	4	4	19	0.812	0.629	0.992
12_2_5_114	MW-02	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.012 *	0.002 **	0.002 **	5	6	4	4	19	0.012 *	0.002 **	0.002 **
12_2_5_119	MW-02	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.486	0.362	0.991	5	6	4	4	19	0.486	0.362	0.991
12_2_5_123	MW-02	Part 115	Silver	mg/L	100%	5	6	4	4	19	0.423	0.454	0.454	NA	NA	NA	NA	NA	NA	NA	NA
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	5%	5	6	4	4	19	0.659	0.672	0.695	4	6	4	4	18	0.599	0.623	0.495
12_2_5_129	MW-02	Part 115	Zinc	mg/L	0%	5	6	4	4	19	0.492	0.499	0.479	5	6	4	4	19	0.492	0.499	0.479
13_2_3_105	MW-03	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.438	0.396	0.375	5	6	4	4	19	0.438	0.396	0.375
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.647	0.591	0.554	5	6	4	4	19	0.647	0.591	0.554
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.555	0.446	0.446	5	6	4	4	19	0.555	0.446	0.446
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.337	0.441	0.433	5	6	4	4	19	0.337	0.441	0.433
13_2_3_120	MW-03	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.182	0.170	0.172	5	6	4	4	19	0.182	0.170	0.172
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.136	0.112	0.111	5	6	4	4	19	0.136	0.112	0.111
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.575	0.717	0.707	5	6	4	4	19	0.575	0.717	0.707
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	68%	5	6	4	4	19	0.239	0.614	0.501	2	3	0	1	6	0.213	0.592	0.475
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.481	0.613	0.738	5	6	4	4	19	0.481	0.613	0.738
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.846	0.937	0.837	5	6	4	4	19	0.846	0.937	0.837
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	63%	5	6	4	4	19	0.849	0.792	0.849	2	2	2	1	7	0.784	0.529	0.560
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	95%	5	6	4	4	19	0.872	0.628	0.785	0	0	0	1	1	NA	NA	NA
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.251	0.412	0.345	5	6	4	4	19	0.251	0.412	0.345
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.160	0.269	0.196	5	6	4	4	19	0.160	0.269	0.196
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.337	0.441	0.433	5	6	4	4	19	0.337	0.441	0.433
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	95%	5	6	4	4	19	0.945	0.806	0.944	0	0	0	1	1	NA	NA	NA
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.722	0.749	0.748	5	6	4	4	19	0.722	0.749	0.748
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	74%	5	6	4	4	19	0.958	0.935	0.987	1	2	1	1	5	0.284	0.001 ***	0.046 *
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	68%	5	6	4	4	19	0.190	0.425	0.239	2	2	0	2	6	0.180	0.120	0.201
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	17%	5	5	4	4	18	0.662	0.581	0.590	3	5	4	3	15	0.359	0.387	0.320
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	16%	5	6	4	4	19	0.429	0.373	0.384	3	5	4	4	16	0.511	0.411	0.427
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	95%	5	6	4	4	19	0.694	0.692	0.738	0	0	0	1	1	NA	NA	NA

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
13_2_5_111	MW-03	Part 115	Copper	mg/L	47%	5	6	4	4	19	0.886	0.671	0.765	1	3	4	2	10	0.188	0.064	0.054
13_2_5_114	MW-03	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.031 *	0.228	0.020 *	5	6	4	4	19	0.031 *	0.228	0.020 *
13_2_5_119	MW-03	Part 115	Nickel	mg/L	5%	5	6	4	4	19	0.972	0.397	0.488	4	6	4	4	18	0.987	0.417	0.689
13_2_5_123	MW-03	Part 115	Silver	mg/L	100%	5	6	4	4	19	0.313	0.333	0.333	NA	NA	NA	NA	NA	NA	NA	NA
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	47%	5	6	4	4	19	0.997	0.970	0.989	2	3	2	3	10	0.125	0.213	0.155
13_2_5_129	MW-03	Part 115	Zinc	mg/L	47%	5	6	4	4	19	0.975	0.970	0.977	1	3	2	4	10	0.491	0.567	0.783
14_2_3_105	MW-04	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.273	0.544	0.559	5	6	4	4	19	0.273	0.544	0.559
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.788	0.725	0.775	5	6	4	4	19	0.788	0.725	0.775
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.963	0.965	0.933	5	6	4	4	19	0.963	0.965	0.933
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.741	0.816	0.693	5	6	4	4	19	0.741	0.816	0.693
14_2_3_120	MW-04	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.058	0.076	0.080	5	6	4	4	19	0.058	0.076	0.080
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.461	0.365	0.396	5	6	4	4	19	0.461	0.365	0.396
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.376	0.441	0.457	5	6	4	4	19	0.376	0.441	0.457
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	68%	5	6	4	4	19	0.875	0.870	0.931	1	2	1	2	6	0.543	0.530	0.643
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.693	0.268	0.409	5	6	4	4	19	0.693	0.268	0.409
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.439	0.333	0.338	5	6	4	4	19	0.439	0.333	0.338
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	84%	5	6	4	4	19	0.999	0.840	0.862	1	0	1	1	3	0.368	NA	NA
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	100%	5	6	4	4	19	0.678	0.572	0.676	NA	NA	NA	NA	NA	NA	NA	NA
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.553	0.500	0.529	5	6	4	4	19	0.553	0.500	0.529
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.685	0.476	0.511	5	6	4	4	19	0.685	0.476	0.511
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.741	0.816	0.693	5	6	4	4	19	0.741	0.816	0.693
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	79%	5	6	4	4	19	0.774	0.775	0.785	1	2	0	1	4	0.407	0.406	0.540
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.030 *	0.012 *	0.014 *	5	6	4	4	19	0.030 *	0.012 *	0.014 *
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	79%	5	6	4	4	19	0.966	0.976	0.984	1	1	1	1	4	0.392	NA	NA
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	11%	5	6	4	4	19	0.538	0.792	0.699	4	5	4	4	17	0.603	0.762	0.749
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	32%	5	6	4	4	19	0.920	0.930	0.892	3	4	3	3	13	0.756	0.836	0.742
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	26%	5	6	4	4	19	0.348	0.842	0.849	4	3	4	3	14	0.563	0.540	0.704
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	100%	5	6	4	4	19	0.508	0.544	0.544	NA	NA	NA	NA	NA	NA	NA	NA
14_2_5_111	MW-04	Part 115	Copper	mg/L	68%	5	6	4	4	19	0.356	0.708	0.662	1	3	0	2	6	0.953	0.875	0.835
14_2_5_114	MW-04	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.353	0.905	0.879	5	6	4	4	19	0.353	0.905	0.879
14_2_5_119	MW-04	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.103	0.133	0.254	5	6	4	4	19	0.103	0.133	0.254
14_2_5_123	MW-04	Part 115	Silver	mg/L	100%	5	6	4	4	19	0.313	0.333	0.333	NA	NA	NA	NA	NA	NA	NA	NA
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	53%	5	6	4	4	19	0.486	0.587	0.558	2	3	2	2	9	0.497	0.542	0.494
14_2_5_129	MW-04	Part 115	Zinc	mg/L	53%	5	6	4	4	19	0.197	0.685	0.358	1	3	1	4	9	0.228	0.204	0.252
16_1_3_105	MW-06	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.007 **	0.001 **	0.003 **	5	6	4	4	19	0.007 **	0.001 **	0.003 **
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.471	0.416	0.448	5	6	4	4	19	0.471	0.416	0.448
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.320	0.269	0.310	5	6	4	4	19	0.320	0.269	0.310
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.193	0.130	0.147	5	6	4	4	19	0.193	0.130	0.147
16_1_3_120	MW-06	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.890	0.628	0.614	5	6	4	4	19	0.890	0.628	0.614

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	11%	5	6	4	4	19	0.380	0.444	0.228	5	6	3	3	17	0.666	0.602	0.411
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.623	0.597	0.562	5	6	4	4	19	0.623	0.597	0.562
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	84%	5	6	4	4	19	0.573	0.354	0.499	0	2	0	1	3	0.221	0.200	0.110
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.029 *	0.005 **	0.008 **	5	6	4	4	19	0.029 *	0.005 **	0.008 **
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.063	0.079	0.088	5	6	4	4	19	0.063	0.079	0.088
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	84%	5	6	4	4	19	0.821	0.586	0.603	2	1	0	0	3	0.221	0.012 *	0.030 *
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	100%	5	6	4	4	19	0.678	0.572	0.676	NA	NA	NA	NA	NA	NA	NA	NA
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.350	0.829	0.674	5	6	4	4	19	0.350	0.829	0.674
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.728	0.587	0.631	5	6	4	4	19	0.728	0.587	0.631
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.193	0.130	0.147	5	6	4	4	19	0.193	0.130	0.147
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	53%	5	6	4	4	19	0.529	0.483	0.493	3	1	2	3	9	0.408	0.470	0.534
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.272	0.288	0.214	5	6	4	4	19	0.272	0.288	0.214
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	74%	5	6	4	4	19	0.994	0.975	0.984	1	2	1	1	5	0.362	0.450	0.386
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	53%	5	6	4	4	19	0.593	0.267	0.315	2	2	2	3	9	0.948	0.395	0.503
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	21%	5	6	4	4	19	0.191	0.242	0.185	4	4	3	4	15	0.170	0.243	0.182
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	26%	5	6	4	4	19	0.540	0.718	0.721	3	4	4	3	14	0.601	0.628	0.669
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	95%	5	6	4	4	19	0.352	0.261	0.230	0	1	0	0	1	NA	NA	NA
16_1_5_111	MW-06	Part 115	Copper	mg/L	68%	5	6	4	4	19	0.707	0.639	0.811	2	1	2	1	6	0.277	0.001 **	0.019 *
16_1_5_114	MW-06	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.589	0.612	0.666	5	6	4	4	19	0.589	0.612	0.666
16_1_5_119	MW-06	Part 115	Nickel	mg/L	32%	5	6	4	4	19	0.406	0.862	0.965	4	2	3	4	13	0.648	0.149	0.202
16_1_5_123	MW-06	Part 115	Silver	mg/L	95%	5	6	4	4	19	0.352	0.223	0.206	0	1	0	0	1	NA	NA	NA
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	74%	5	6	4	4	19	0.302	0.561	0.521	1	1	2	1	5	0.284	0.018 *	0.046 *
16_1_5_129	MW-06	Part 115	Zinc	mg/L	11%	5	6	4	4	19	0.644	0.945	0.851	4	5	4	4	17	0.735	0.943	0.901
17_1_3_105	MW-07	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.156	0.245	0.256	5	6	4	4	19	0.156	0.245	0.256
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.946	0.958	0.959	5	6	4	4	19	0.946	0.958	0.959
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.491	0.719	0.671	5	6	4	4	19	0.491	0.719	0.671
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	21%	5	6	4	4	19	0.867	0.733	0.885	4	5	3	3	15	0.407	0.307	0.304
17_1_3_120	MW-07	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.941	0.768	0.769	5	6	4	4	19	0.941	0.768	0.769
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.021 *	0.004 **	0.003 **	5	6	4	4	19	0.021 *	0.004 **	0.003 **
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.524	0.763	0.774	5	6	4	4	19	0.524	0.763	0.774
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	95%	5	6	4	4	19	0.575	0.606	0.603	0	1	0	0	1	NA	NA	NA
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.541	0.385	0.457	5	6	4	4	19	0.541	0.385	0.457
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.211	0.191	0.182	5	6	4	4	19	0.211	0.191	0.182
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	74%	5	6	4	4	19	0.834	0.700	0.736	2	0	1	2	5	0.206	0.557	0.517
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	100%	5	6	4	4	19	0.581	0.619	0.619	NA	NA	NA	NA	NA	NA	NA	NA
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.294	0.416	0.406	5	6	4	4	19	0.294	0.416	0.406
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.869	0.619	0.642	5	6	4	4	19	0.869	0.619	0.642
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	21%	5	6	4	4	19	0.867	0.733	0.885	4	5	3	3	15	0.407	0.307	0.304
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	100%	5	6	4	4	19	0.581	0.619	0.619	NA	NA	NA	NA	NA	NA	NA	NA

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.324	0.417	0.423	5	6	4	4	19	0.324	0.417	0.423
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	95%	5	6	4	4	19	0.946	0.975	0.973	0	0	1	0	1	NA	NA	NA
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	100%	5	6	4	4	19	0.450	0.580	0.563	NA	NA	NA	NA	NA	NA	NA	NA
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	11%	5	6	4	4	19	0.880	0.426	0.560	5	5	3	4	17	0.579	0.176	0.229
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	47%	5	6	4	4	19	0.083	0.177	0.148	3	3	2	2	10	0.066	0.322	0.229
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	100%	5	6	4	4	19	NA	0.306	NA	NA	NA	NA	NA	NA	NA	NA	NA
17_1_5_111	MW-07	Part 115	Copper	mg/L	74%	5	6	4	4	19	0.982	0.588	0.675	1	2	1	1	5	0.284	0.026 *	0.043 *
17_1_5_114	MW-07	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.800	0.769	0.757	5	6	4	4	19	0.800	0.769	0.757
17_1_5_119	MW-07	Part 115	Nickel	mg/L	74%	5	6	4	4	19	0.861	0.991	0.985	1	1	1	2	5	0.284	0.822	0.744
17_1_5_123	MW-07	Part 115	Silver	mg/L	100%	5	6	4	4	19	NA	0.306	0.306	NA	NA	NA	NA	NA	NA	NA	NA
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	63%	5	6	4	4	19	0.153	0.139	0.144	1	2	2	2	7	0.169	0.160	0.167
17_1_5_129	MW-07	Part 115	Zinc	mg/L	53%	5	6	4	4	19	0.964	0.978	0.873	2	2	1	4	9	0.317	0.456	0.616
18_1_3_105	MW-08	Appendix III	Boron	mg/L	0%	6	6	4	3	19	0.189	0.380	0.355	6	6	4	3	19	0.189	0.380	0.355
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	0%	6	6	4	3	19	0.811	0.794	0.815	6	6	4	3	19	0.811	0.794	0.815
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	0%	6	6	4	3	19	0.557	0.132	0.224	6	6	4	3	19	0.557	0.132	0.224
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	0%	6	6	4	3	19	0.562	0.399	0.301	6	6	4	3	19	0.562	0.399	0.301
18_1_3_120	MW-08	Appendix III	pH (field)	su	0%	6	6	4	3	19	0.124	0.559	0.570	6	6	4	3	19	0.124	0.559	0.570
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	26%	6	6	4	3	19	0.490	0.641	0.519	5	5	1	3	14	0.276	0.586	0.301
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	0%	6	6	4	3	19	0.296	0.291	0.369	6	6	4	3	19	0.296	0.291	0.369
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	58%	6	6	4	3	19	0.880	0.653	0.733	4	2	1	1	8	0.505	0.480	0.606
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	0%	6	6	4	3	19	0.441	0.720	0.445	6	6	4	3	19	0.441	0.720	0.445
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	0%	6	6	4	3	19	0.326	0.249	0.233	6	6	4	3	19	0.326	0.249	0.233
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	95%	6	6	4	3	19	0.743	0.764	0.770	1	0	0	0	1	NA	NA	NA
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	95%	6	6	4	3	19	0.546	0.599	0.438	1	0	0	0	1	NA	NA	NA
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	0%	6	6	4	3	19	0.460	0.593	0.566	6	6	4	3	19	0.460	0.593	0.566
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	0%	6	6	4	3	19	0.465	0.595	0.555	6	6	4	3	19	0.465	0.595	0.555
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	0%	6	6	4	3	19	0.562	0.399	0.301	6	6	4	3	19	0.562	0.399	0.301
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	63%	6	6	4	3	19	0.189	0.248	0.446	3	3	0	1	7	0.296	0.006 **	0.178
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	0%	6	6	4	3	19	0.678	0.637	0.691	6	6	4	3	19	0.678	0.637	0.691
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	89%	6	6	4	3	19	0.931	0.934	0.942	0	1	1	0	2	0.317	NA	NA
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	5%	6	6	4	3	19	0.010 **	0.009 **	0.000 ***	6	6	3	3	18	0.020 *	0.025 *	0.001 ***
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	26%	6	6	4	3	19	0.251	0.738	0.667	3	6	3	2	14	0.528	0.699	0.799
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	37%	6	6	4	3	19	0.079	0.028 *	0.037 *	3	3	3	3	12	0.634	0.133	0.207
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	95%	6	6	4	3	19	0.539	0.575	0.575	1	0	0	0	1	NA	NA	NA
18_1_5_111	MW-08	Part 115	Copper	mg/L	32%	6	6	4	3	19	0.900	0.764	0.827	4	5	2	2	13	0.580	0.572	0.596
18_1_5_114	MW-08	Part 115	Iron	mg/L	0%	6	6	4	3	19	0.179	0.195	0.477	6	6	4	3	19	0.179	0.195	0.477
18_1_5_119	MW-08	Part 115	Nickel	mg/L	0%	6	6	4	3	19	0.881	0.263	0.626	6	6	4	3	19	0.881	0.263	0.626
18_1_5_123	MW-08	Part 115	Silver	mg/L	100%	6	6	4	3	19	NA	0.575	0.575	NA	NA	NA	NA	NA	NA	NA	NA
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	84%	6	6	4	3	19	0.892	0.846	0.912	1	0	1	1	3	0.368	NA	NA

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
18_1_5_129	MW-08	Part 115	Zinc	mg/L	16%	6	6	4	3	19	0.821	0.856	0.963	4	6	3	3	16	0.469	0.918	0.860
19_2_3_105	MW-09	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.017 *	0.051	0.126	5	6	4	4	19	0.017 *	0.051	0.126
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.507	0.418	0.356	5	6	4	4	19	0.507	0.418	0.356
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.710	0.747	0.821	5	6	4	4	19	0.710	0.747	0.821
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.142	0.223	0.276	5	6	4	4	19	0.142	0.223	0.276
19_2_3_120	MW-09	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.253	0.166	0.167	5	6	4	4	19	0.253	0.166	0.167
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.272	0.152	0.124	5	6	4	4	19	0.272	0.152	0.124
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.365	0.317	0.293	5	6	4	4	19	0.365	0.317	0.293
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	63%	5	6	4	4	19	0.434	0.332	0.333	2	3	1	1	7	0.414	0.714	0.565
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.163	0.225	0.178	5	6	4	4	19	0.163	0.225	0.178
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.584	0.471	0.632	5	6	4	4	19	0.584	0.471	0.632
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	74%	5	6	4	4	19	0.878	0.677	0.727	2	1	1	1	5	0.362	0.876	0.849
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	95%	5	6	4	4	19	0.847	0.384	0.730	1	0	0	0	1	NA	NA	NA
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.800	0.837	0.742	5	6	4	4	19	0.800	0.837	0.742
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.057	0.424	0.104	5	6	4	4	19	0.057	0.424	0.104
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.142	0.223	0.276	5	6	4	4	19	0.142	0.223	0.276
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	89%	5	6	4	4	19	0.287	0.484	0.370	1	1	0	0	2	0.317	NA	NA
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.154	0.692	0.649	5	6	4	4	19	0.154	0.692	0.649
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	74%	5	6	4	4	19	0.983	0.607	0.997	1	2	1	1	5	0.284	0.715	0.596
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	0%	5	6	4	4	19	0.221	0.439	0.665	5	6	4	4	19	0.221	0.439	0.665
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	89%	5	6	4	4	19	0.965	0.958	0.958	0	0	0	2	2	NA	NA	NA
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	11%	5	6	4	4	19	0.955	0.454	0.565	4	5	4	4	17	0.784	0.351	0.404
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	100%	5	6	4	4	19	0.664	0.701	0.701	NA	NA	NA	NA	NA	NA	NA	NA
19_2_5_111	MW-09	Part 115	Copper	mg/L	58%	5	6	4	4	19	0.926	0.710	0.805	2	2	2	2	8	0.300	0.648	0.653
19_2_5_114	MW-09	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.040 *	0.050	0.112	5	6	4	4	19	0.040 *	0.050	0.112
19_2_5_119	MW-09	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.469	0.435	0.503	5	6	4	4	19	0.469	0.435	0.503
19_2_5_123	MW-09	Part 115	Silver	mg/L	100%	5	6	4	4	19	0.423	0.454	0.454	NA	NA	NA	NA	NA	NA	NA	NA
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	79%	5	6	4	4	19	0.410	0.663	0.695	1	1	1	1	4	0.392	NA	NA
19_2_5_129	MW-09	Part 115	Zinc	mg/L	42%	5	6	4	4	19	0.786	0.525	0.795	3	3	2	3	11	0.689	0.556	0.754
20_3_3_105	MW-10	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.051	0.047 *	0.069	5	6	4	4	19	0.051	0.047 *	0.069
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.627	0.645	0.688	5	6	4	4	19	0.627	0.645	0.688
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.048 *	0.028 *	0.028 *	5	6	4	4	19	0.048 *	0.028 *	0.028 *
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.247	0.211	0.249	5	6	4	4	19	0.247	0.211	0.249
20_3_3_120	MW-10	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.074	0.072	0.073	5	6	4	4	19	0.074	0.072	0.073
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.505	0.671	0.494	5	6	4	4	19	0.505	0.671	0.494
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.840	0.761	0.781	5	6	4	4	19	0.840	0.761	0.781
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	79%	5	6	4	4	19	0.991	0.583	0.823	0	1	2	1	4	0.223	0.000 ***	0.000 ***
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.036 *	0.012 *	0.015 *	5	6	4	4	19	0.036 *	0.012 *	0.015 *
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.129	0.138	0.115	5	6	4	4	19	0.129	0.138	0.115

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	47%	5	6	4	4	19	0.218	0.320	0.219	1	3	3	3	10	0.306	0.610	0.493
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	100%	5	6	4	4	19	0.678	0.572	0.676	NA	NA	NA	NA	NA	NA	NA	NA
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.453	0.191	0.285	5	6	4	4	19	0.453	0.191	0.285
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	5%	5	6	4	4	19	0.390	0.700	0.562	4	6	4	4	18	0.516	0.841	0.778
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.247	0.211	0.249	5	6	4	4	19	0.247	0.211	0.249
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	89%	5	6	4	4	19	0.890	0.600	0.790	0	0	1	1	2	0.317	NA	NA
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.213	0.335	0.205	5	6	4	4	19	0.213	0.335	0.205
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	84%	5	6	4	4	19	0.991	0.657	0.994	1	1	1	0	3	0.368	NA	NA
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	0%	5	6	4	4	19	0.536	0.527	0.280	5	6	4	4	19	0.536	0.527	0.280
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	79%	5	6	4	4	19	0.432	0.659	0.674	2	0	1	1	4	0.259	0.565	0.502
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	5%	5	6	4	4	19	0.366	0.886	0.869	5	5	4	4	18	0.461	0.958	0.968
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	100%	5	6	4	4	19	0.891	0.851	0.852	NA	NA	NA	NA	NA	NA	NA	NA
20_3_5_111	MW-10	Part 115	Copper	mg/L	84%	5	6	4	4	19	0.218	0.628	0.516	0	1	0	2	3	0.221	0.070	0.125
20_3_5_114	MW-10	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.024 *	0.015 *	0.016 *	5	6	4	4	19	0.024 *	0.015 *	0.016 *
20_3_5_119	MW-10	Part 115	Nickel	mg/L	37%	5	6	4	4	19	0.548	0.941	0.887	2	3	3	4	12	0.727	0.770	0.821
20_3_5_123	MW-10	Part 115	Silver	mg/L	100%	5	6	4	4	19	0.524	0.334	0.336	NA	NA	NA	NA	NA	NA	NA	NA
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	63%	5	6	4	4	19	0.112	0.349	0.299	1	2	2	2	7	0.587	0.624	0.577
20_3_5_129	MW-10	Part 115	Zinc	mg/L	37%	5	6	4	4	19	0.403	0.964	0.858	2	3	3	4	12	0.803	0.591	0.857
21_2_3_105	MW-11	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.042 *	0.063	0.027 *	5	6	4	4	19	0.042 *	0.063	0.027 *
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.176	0.171	0.229	5	6	4	4	19	0.176	0.171	0.229
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.010 **	0.001 ***	0.000 ***	5	6	4	4	19	0.010 **	0.001 ***	0.000 ***
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.155	0.361	0.236	5	6	4	4	19	0.155	0.361	0.236
21_2_3_120	MW-11	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.080	0.128	0.128	5	6	4	4	19	0.080	0.128	0.128
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	37%	5	6	4	4	19	0.207	0.091	0.135	2	5	3	2	12	0.322	0.264	0.200
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.665	0.603	0.567	5	6	4	4	19	0.665	0.603	0.567
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	74%	5	6	4	4	19	0.869	0.717	0.789	1	2	0	2	5	0.349	0.121	0.364
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.330	0.599	0.460	5	6	4	4	19	0.330	0.599	0.460
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.110	0.427	0.270	5	6	4	4	19	0.110	0.427	0.270
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	68%	5	6	4	4	19	0.549	0.554	0.563	2	2	0	2	6	0.102	0.380	0.281
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	84%	5	6	4	4	19	0.847	0.797	0.924	1	1	0	1	3	0.368	NA	NA
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.175	0.587	0.497	5	6	4	4	19	0.175	0.587	0.497
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.813	0.856	0.965	5	6	4	4	19	0.813	0.856	0.965
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.155	0.361	0.236	5	6	4	4	19	0.155	0.361	0.236
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	16%	5	6	4	4	19	0.965	0.623	0.866	5	3	4	4	16	0.963	0.780	0.972
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.078	0.138	0.057	5	6	4	4	19	0.078	0.138	0.057
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	68%	5	6	4	4	19	0.996	0.720	0.998	1	3	1	1	6	0.801	0.907	0.832
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	11%	5	6	4	4	19	0.839	0.909	0.876	5	4	4	4	17	0.930	0.785	0.941
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	39%	5	5	4	4	18	0.805	0.850	0.814	3	3	2	3	11	0.621	0.640	0.636
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	16%	5	6	4	4	19	0.487	0.400	0.407	4	4	4	4	16	0.514	0.371	0.407

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full										Without Non-Detects									
						Sample Size					p-Value					Sample Size					p-Value				
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis		ANOVA		Log ANOVA		Winter	Spring	Summer	Fall	Total	Kruskal-Wallis		ANOVA		Log ANOVA	
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	95%	5	6	4	4	19	0.198		0.274		0.227		0	1	0	0	1	NA		NA		NA	
21_2_5_111	MW-11	Part 115	Copper	mg/L	21%	5	6	4	4	19	0.619		0.663		0.960		5	3	4	3	15	0.891		0.821		0.970	
21_2_5_114	MW-11	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.256		0.682		0.470		5	6	4	4	19	0.256		0.682		0.470	
21_2_5_119	MW-11	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.650		0.493		0.522		5	6	4	4	19	0.650		0.493		0.522	
21_2_5_123	MW-11	Part 115	Silver	mg/L	84%	5	6	4	4	19	0.262		0.192		0.258		1	1	0	1	3	0.368		NA		NA	
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	68%	5	6	4	4	19	0.525		0.643		0.686		2	2	1	1	6	0.543		0.788		0.802	
21_2_5_129	MW-11	Part 115	Zinc	mg/L	21%	5	6	4	4	19	0.574		0.497		0.515		4	4	3	4	15	0.469		0.465		0.557	
22_2_3_105	MW-12	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.004	**	0.000	***	0.000	***	5	6	4	4	19	0.004	**	0.000	***	0.000	***
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.017	*	0.005	**	0.007	**	5	6	4	4	19	0.017	*	0.005	**	0.007	**
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.034	*	0.038	*	0.029	*	5	6	4	4	19	0.034	*	0.038	*	0.029	*
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.753		0.838		0.873		5	6	4	4	19	0.753		0.838		0.873	
22_2_3_120	MW-12	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.027	*	0.067		0.071		5	6	4	4	19	0.027	*	0.067		0.071	
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.831		0.707		0.734		5	6	4	4	19	0.831		0.707		0.734	
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.028	*	0.013	*	0.047	*	5	6	4	4	19	0.028	*	0.013	*	0.047	*
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	0%	5	6	4	4	19	0.085		0.049	*	0.079		5	6	4	4	19	0.085		0.049	*	0.079	
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.004	**	0.003	**	0.000	***	5	6	4	4	19	0.004	**	0.003	**	0.000	***
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.044	*	0.036	*	0.028	*	5	6	4	4	19	0.044	*	0.036	*	0.028	*
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	95%	5	6	4	4	19	0.673		0.667		0.683		1	0	0	0	1	NA		NA		NA	
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	0%	5	6	4	4	19	0.083		0.087		0.037	*	5	6	4	4	19	0.083		0.087		0.037	*
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	32%	5	6	4	4	19	0.010	*	0.013	*	0.002	**	5	5	0	3	13	0.019	*	0.041	*	0.006	**
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	26%	5	6	4	4	19	0.006	**	0.062		0.001	***	3	3	4	4	14	0.042	*	0.294		0.043	*
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.753		0.838		0.873		5	6	4	4	19	0.753		0.838		0.873	
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	32%	5	6	4	4	19	0.731		0.944		0.875		2	4	4	3	13	0.733		0.600		0.811	
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	5%	5	6	4	4	19	0.008	**	0.001	***	0.001	**	4	6	4	4	18	0.012	*	0.002	**	0.003	**
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	63%	5	6	4	4	19	0.996		0.998		0.994		1	3	1	2	7	0.666		0.899		0.832	
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	0%	5	6	4	4	19	0.017	*	0.020	*	0.009	**	5	6	4	4	19	0.017	*	0.020	*	0.009	**
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	58%	5	6	4	4	19	0.817		0.541		0.653		0	5	1	2	8	0.799		0.817		0.886	
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	0%	5	6	4	4	19	0.006	**	0.002	**	0.000	***	5	6	4	4	19	0.006	**	0.002	**	0.000	***
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	100%	5	6	4	4	19	NA		0.306		NA		NA	NA	NA	NA	NA	NA		NA		NA	
22_2_5_111	MW-12	Part 115	Copper	mg/L	0%	5	6	4	4	19	0.240		0.351		0.239		5	6	4	4	19	0.240		0.351		0.239	
22_2_5_114	MW-12	Part 115	Iron	mg/L	32%	5	6	4	4	19	0.022	*	0.114		0.022	*	3	3	4	3	13	0.257		0.409		0.367	
22_2_5_119	MW-12	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.017	*	0.054		0.015	*	5	6	4	4	19	0.017	*	0.054		0.015	*
22_2_5_123	MW-12	Part 115	Silver	mg/L	100%	5	6	4	4	19	NA		0.306		0.306		NA	NA	NA	NA	NA	NA		NA		NA	
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	32%	5	6	4	4	19	0.169		0.534		0.346		2	5	4	2	13	0.773		0.832		0.924	
22_2_5_129	MW-12	Part 115	Zinc	mg/L	0%	5	6	4	4	19	0.282		0.456		0.403		5	6	4	4	19	0.282		0.456		0.403	
26_1_3_105	MW-16	Appendix III	Boron	mg/L	0%	2	3	2	2	9	0.077		0.004	**	0.006	**	2	3	2	2	9	0.077		0.004	**	0.006	**
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	0%	2	3	2	2	9	0.080		0.039	*	0.043	*	2	3	2	2	9	0.080		0.039	*	0.043	*
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	2	2	9	0.126		0.081		0.076		2	3	2	2	9	0.126		0.081		0.076	
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	11%	2	3	2	2	9	0.956		0.772		0.631		2	3	2	1	8	0.672		0.771		0.789	

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
26_1_3_120	MW-16	Appendix III	pH (field)	su	0%	2	3	2	2	9	0.087	0.009 **	0.009 **	2	3	2	2	9	0.087	0.009 **	0.009 **
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	22%	2	3	2	2	9	0.082	0.046 *	0.001 ***	2	3	1	1	7	0.258	0.274	0.012 *
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	2	2	9	0.300	0.295	0.317	2	3	2	2	9	0.300	0.295	0.317
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	89%	2	3	2	2	9	0.321	0.372	0.372	0	0	0	1	1	NA	NA	NA
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	0%	2	3	2	2	9	0.134	0.031 *	0.100	2	3	2	2	9	0.134	0.031 *	0.100
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	0%	2	3	2	2	9	0.801	0.948	0.922	2	3	2	2	9	0.801	0.948	0.922
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	89%	2	3	2	2	9	0.608	0.679	0.684	1	0	0	0	1	NA	NA	NA
26_1_4_106	MW-16	Appendix IV	Cadmium	mg/L	100%	2	3	2	2	9	NA	0.667	0.667	NA	NA	NA	NA	NA	NA	NA	NA
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	0%	2	3	2	2	9	0.068	0.054	0.019 *	2	3	2	2	9	0.068	0.054	0.019 *
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	0%	2	3	2	2	9	0.345	0.737	0.688	2	3	2	2	9	0.345	0.737	0.688
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	11%	2	3	2	2	9	0.956	0.772	0.631	2	3	2	1	8	0.672	0.771	0.789
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	67%	2	3	2	2	9	0.126	0.272	0.221	1	0	0	2	3	1.000	0.927	0.996
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	0%	2	3	2	2	9	0.068	0.010 *	0.017 *	2	3	2	2	9	0.068	0.010 *	0.017 *
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	78%	2	3	2	2	9	0.735	0.987	0.970	1	0	1	0	2	0.317	NA	NA
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	89%	2	3	2	2	9	0.572	0.667	0.667	0	1	0	0	1	NA	NA	NA
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	44%	2	3	2	2	9	0.328	0.534	0.557	0	3	1	1	5	0.766	0.991	0.976
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	11%	2	3	2	2	9	0.444	0.313	0.353	1	3	2	2	8	0.214	0.290	0.254
26_1_4_125	MW-16	Appendix IV	Thallium	mg/L	100%	2	3	2	2	9	NA	0.667	0.667	NA	NA	NA	NA	NA	NA	NA	NA
26_1_5_111	MW-16	Part 115	Copper	mg/L	44%	2	3	2	2	9	0.138	0.067	0.084	2	2	0	1	5	0.165	0.108	0.094
26_1_5_114	MW-16	Part 115	Iron	mg/L	0%	2	3	2	2	9	0.156	0.107	0.217	2	3	2	2	9	0.156	0.107	0.217
26_1_5_119	MW-16	Part 115	Nickel	mg/L	11%	2	3	2	2	9	0.131	0.242	0.121	2	3	1	2	8	0.207	0.373	0.238
26_1_5_123	MW-16	Part 115	Silver	mg/L	100%	2	3	2	2	9	NA	0.667	NA	NA	NA	NA	NA	NA	NA	NA	NA
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	33%	2	3	2	2	9	0.078	0.158	0.139	1	1	2	2	6	0.277	0.464	0.306
26_1_5_129	MW-16	Part 115	Zinc	mg/L	22%	2	3	2	2	9	0.408	0.615	0.636	2	2	1	2	7	0.426	0.745	0.740
27_1_3_105	MW-17	Appendix III	Boron	mg/L	0%	2	3	2	2	9	0.164	0.085	0.112	2	3	2	2	9	0.164	0.085	0.112
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	0%	2	3	2	2	9	0.468	0.461	0.422	2	3	2	2	9	0.468	0.461	0.422
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	2	2	9	0.760	0.529	0.469	2	3	2	2	9	0.760	0.529	0.469
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	0%	2	3	2	2	9	0.244	0.456	0.498	2	3	2	2	9	0.244	0.456	0.498
27_1_3_120	MW-17	Appendix III	pH (field)	su	0%	2	3	2	2	9	0.122	0.035 *	0.037 *	2	3	2	2	9	0.122	0.035 *	0.037 *
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	11%	2	3	2	2	9	0.334	0.101	0.326	2	3	2	1	8	0.343	0.186	0.398
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	2	2	9	0.328	0.482	0.476	2	3	2	2	9	0.328	0.482	0.476
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	78%	2	3	2	2	9	0.411	0.381	0.408	1	0	1	0	2	0.317	NA	NA
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	0%	2	3	2	2	9	0.087	0.012 *	0.015 *	2	3	2	2	9	0.087	0.012 *	0.015 *
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	0%	2	3	2	2	9	0.311	0.273	0.229	2	3	2	2	9	0.311	0.273	0.229
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	89%	2	3	2	2	9	0.608	0.735	0.737	1	0	0	0	1	NA	NA	NA
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	89%	2	3	2	2	9	0.321	0.372	0.372	1	0	0	0	1	NA	NA	NA
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	0%	2	3	2	2	9	0.774	0.490	0.600	2	3	2	2	9	0.774	0.490	0.600
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	0%	2	3	2	2	9	0.127	0.146	0.105	2	3	2	2	9	0.127	0.146	0.105
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	2	2	9	0.244	0.456	0.498	2	3	2	2	9	0.244	0.456	0.498

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	11%	2	3	2	2	9	0.146	0.291	0.183	2	3	2	1	8	0.256	0.512	0.440
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	0%	2	3	2	2	9	0.161	0.157	0.183	2	3	2	2	9	0.161	0.157	0.183
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	67%	2	3	2	2	9	0.862	0.987	0.964	1	1	1	0	3	0.368	NA	NA
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	0%	2	3	2	2	9	0.187	0.391	0.400	2	3	2	2	9	0.187	0.391	0.400
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	33%	2	3	2	2	9	0.649	0.838	0.873	1	2	1	2	6	0.463	0.836	0.800
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	0%	2	3	2	2	9	0.646	0.440	0.650	2	3	2	2	9	0.646	0.440	0.650
27_1_4_125	MW-17	Appendix IV	Thallium	mg/L	100%	2	3	2	2	9	NA	0.667	0.667	NA	NA	NA	NA	NA	NA	NA	NA
27_1_5_111	MW-17	Part 115	Copper	mg/L	11%	2	3	2	2	9	0.269	0.364	0.218	2	3	2	1	8	0.522	0.518	0.495
27_1_5_114	MW-17	Part 115	Iron	mg/L	0%	2	3	2	2	9	0.220	0.275	0.274	2	3	2	2	9	0.220	0.275	0.274
27_1_5_119	MW-17	Part 115	Nickel	mg/L	0%	2	3	2	2	9	0.681	0.397	0.456	2	3	2	2	9	0.681	0.397	0.456
27_1_5_123	MW-17	Part 115	Silver	mg/L	100%	2	3	2	2	9	NA	0.667	NA	NA	NA	NA	NA	NA	NA	NA	NA
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	0%	2	3	2	2	9	0.774	0.729	0.772	2	3	2	2	9	0.774	0.729	0.772
27_1_5_129	MW-17	Part 115	Zinc	mg/L	0%	2	3	2	2	9	0.308	0.140	0.304	2	3	2	2	9	0.308	0.140	0.304
28_1_3_105	MW-18	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.485	0.591	0.499	5	6	4	4	19	0.485	0.591	0.499
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.047 *	0.039 *	0.054	5	6	4	4	19	0.047 *	0.039 *	0.054
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.022 *	0.017 *	0.021 *	5	6	4	4	19	0.022 *	0.017 *	0.021 *
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.010 **	0.000 ***	0.001 ***	5	6	4	4	19	0.010 **	0.000 ***	0.001 ***
28_1_3_120	MW-18	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.343	0.330	0.333	5	6	4	4	19	0.343	0.330	0.333
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.558	0.432	0.617	5	6	4	4	19	0.558	0.432	0.617
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.344	0.475	0.591	5	6	4	4	19	0.344	0.475	0.591
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	16%	5	6	4	4	19	0.018 *	0.512	0.160	4	5	3	4	16	0.048 *	0.715	0.430
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.005 **	0.001 **	0.006 **	5	6	4	4	19	0.005 **	0.001 **	0.006 **
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.132	0.849	0.649	5	6	4	4	19	0.132	0.849	0.649
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	79%	5	6	4	4	19	0.577	0.529	0.519	2	1	0	1	4	0.861	0.814	0.814
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	37%	5	6	4	4	19	0.388	0.731	0.527	3	5	2	2	12	0.698	0.785	0.757
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	84%	5	6	4	4	19	0.553	0.210	0.186	0	3	0	0	3	NA	NA	NA
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.468	0.422	0.416	5	6	4	4	19	0.468	0.422	0.416
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.010 **	0.000 ***	0.001 ***	5	6	4	4	19	0.010 **	0.000 ***	0.001 ***
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	63%	5	6	4	4	19	0.777	0.488	0.768	0	0	4	3	7	0.285	0.522	0.509
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.009 **	0.003 **	0.007 **	5	6	4	4	19	0.009 **	0.003 **	0.007 **
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	79%	5	6	4	4	19	0.966	0.975	0.944	1	1	1	1	4	0.392	NA	NA
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	0%	5	6	4	4	19	0.038 *	0.015 *	0.016 *	5	6	4	4	19	0.038 *	0.015 *	0.016 *
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	53%	5	6	4	4	19	0.433	0.688	0.647	1	3	2	3	9	0.981	0.929	0.978
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	0%	5	6	4	4	19	0.082	0.331	0.052	5	6	4	4	19	0.082	0.331	0.052
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	95%	5	6	4	4	19	0.514	0.418	0.472	0	0	0	1	1	NA	NA	NA
28_1_5_111	MW-18	Part 115	Copper	mg/L	0%	5	6	4	4	19	0.141	0.688	0.402	5	6	4	4	19	0.141	0.688	0.402
28_1_5_114	MW-18	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.181	0.175	0.266	5	6	4	4	19	0.181	0.175	0.266
28_1_5_119	MW-18	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.202	0.276	0.211	5	6	4	4	19	0.202	0.276	0.211
28_1_5_123	MW-18	Part 115	Silver	mg/L	100%	5	6	4	4	19	0.319	0.339	0.339	NA	NA	NA	NA	NA	NA	NA	NA

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	89%	5	6	4	4	19	0.979	0.987	0.982	0	1	0	1	2	0.317	NA	NA
28_1_5_129	MW-18	Part 115	Zinc	mg/L	0%	5	6	4	4	19	0.180	0.347	0.100	5	6	4	4	19	0.180	0.347	0.100
29_1_3_105	MW-19	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.003 **	0.000 ***	0.000 ***	5	6	4	4	19	0.003 **	0.000 ***	0.000 ***
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.391	0.586	0.625	5	6	4	4	19	0.391	0.586	0.625
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.360	0.264	0.262	5	6	4	4	19	0.360	0.264	0.262
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.069	0.097	0.093	5	6	4	4	19	0.069	0.097	0.093
29_1_3_120	MW-19	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.179	0.127	0.124	5	6	4	4	19	0.179	0.127	0.124
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.545	0.603	0.607	5	6	4	4	19	0.545	0.603	0.607
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.775	0.754	0.799	5	6	4	4	19	0.775	0.754	0.799
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	68%	5	6	4	4	19	0.417	0.262	0.358	2	2	1	1	6	0.463	0.694	0.474
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.179	0.124	0.291	5	6	4	4	19	0.179	0.124	0.291
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.063	0.060	0.054	5	6	4	4	19	0.063	0.060	0.054
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	16%	5	6	4	4	19	0.892	0.716	0.839	4	6	4	2	16	0.542	0.606	0.582
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	89%	5	6	4	4	19	0.764	0.622	0.775	1	0	0	1	2	0.317	NA	NA
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	32%	5	6	4	4	19	0.634	0.398	0.586	3	3	4	3	13	0.767	0.916	0.967
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	5%	5	6	4	4	19	0.204	0.334	0.165	5	6	3	4	18	0.385	0.566	0.371
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.069	0.097	0.093	5	6	4	4	19	0.069	0.097	0.093
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	100%	5	6	4	4	19	0.918	0.708	0.907	NA	NA	NA	NA	NA	NA	NA	NA
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.558	0.773	0.689	5	6	4	4	19	0.558	0.773	0.689
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	89%	5	6	4	4	19	0.903	0.975	0.970	1	0	1	0	2	0.317	NA	NA
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	0%	5	6	4	4	19	0.370	0.629	0.683	5	6	4	4	19	0.370	0.629	0.683
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	47%	5	6	4	4	19	0.710	0.868	0.824	4	4	2	0	10	0.782	0.711	0.754
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	58%	5	6	4	4	19	0.087	0.253	0.125	3	2	1	2	8	0.404	0.800	0.812
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	95%	5	6	4	4	19	0.975	0.925	0.951	0	0	0	1	1	NA	NA	NA
29_1_5_111	MW-19	Part 115	Copper	mg/L	79%	5	6	4	4	19	0.605	0.532	0.500	0	1	2	1	4	0.259	0.229	0.182
29_1_5_114	MW-19	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.290	0.444	0.562	5	6	4	4	19	0.290	0.444	0.562
29_1_5_119	MW-19	Part 115	Nickel	mg/L	5%	5	6	4	4	19	0.674	0.507	0.682	4	6	4	4	18	0.782	0.539	0.699
29_1_5_123	MW-19	Part 115	Silver	mg/L	100%	5	6	4	4	19	0.313	0.333	0.333	NA	NA	NA	NA	NA	NA	NA	NA
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	74%	5	6	4	4	19	0.670	0.470	0.457	1	2	1	1	5	0.532	0.575	0.690
29_1_5_129	MW-19	Part 115	Zinc	mg/L	53%	5	6	4	4	19	0.392	0.600	0.543	2	3	1	3	9	0.345	0.816	0.765
30_1_3_105	MW-20	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.004 **	0.000 ***	0.000 ***	5	6	4	4	19	0.004 **	0.000 ***	0.000 ***
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.398	0.302	0.263	5	6	4	4	19	0.398	0.302	0.263
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.558	0.657	0.739	5	6	4	4	19	0.558	0.657	0.739
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.883	0.844	0.980	5	6	4	4	19	0.883	0.844	0.980
30_1_3_120	MW-20	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.142	0.123	0.125	5	6	4	4	19	0.142	0.123	0.125
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.050	0.063	0.017 *	5	6	4	4	19	0.050	0.063	0.017 *
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.351	0.216	0.255	5	6	4	4	19	0.351	0.216	0.255
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	42%	5	6	4	4	19	0.492	0.287	0.247	3	2	3	3	11	0.567	0.488	0.413
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.002 **	0.000 ***	0.000 ***	5	6	4	4	19	0.002 **	0.000 ***	0.000 ***

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.018 *	0.009 **	0.009 **	5	6	4	4	19	0.018 *	0.009 **	0.009 **
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	95%	5	6	4	4	19	0.673	0.626	0.640	1	0	0	0	1	NA	NA	NA
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	95%	5	6	4	4	19	0.555	0.349	0.491	0	0	0	1	1	NA	NA	NA
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	53%	5	6	4	4	19	0.573	0.455	0.459	3	3	1	2	9	0.332	0.660	0.631
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.871	0.861	0.887	5	6	4	4	19	0.871	0.861	0.887
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.883	0.844	0.980	5	6	4	4	19	0.883	0.844	0.980
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	0%	5	6	4	4	19	0.151	0.276	0.204	5	6	4	4	19	0.151	0.276	0.204
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.034 *	0.011 *	0.017 *	5	6	4	4	19	0.034 *	0.011 *	0.017 *
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	74%	5	6	4	4	19	0.933	0.973	0.946	1	2	1	1	5	0.362	0.318	0.264
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	0%	5	6	4	4	19	0.077	0.058	0.059	5	6	4	4	19	0.077	0.058	0.059
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	50%	4	6	4	4	18	0.529	0.276	0.366	2	3	2	2	9	0.902	0.684	0.787
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	58%	5	6	4	4	19	0.329	0.316	0.309	2	2	2	2	8	0.514	0.617	0.670
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	95%	5	6	4	4	19	0.423	0.454	0.454	1	0	0	0	1	NA	NA	NA
30_1_5_111	MW-20	Part 115	Copper	mg/L	11%	5	6	4	4	19	0.265	0.204	0.184	4	5	4	4	17	0.483	0.295	0.318
30_1_5_114	MW-20	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.682	0.889	0.957	5	6	4	4	19	0.682	0.889	0.957
30_1_5_119	MW-20	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.933	0.443	0.608	5	6	4	4	19	0.933	0.443	0.608
30_1_5_123	MW-20	Part 115	Silver	mg/L	100%	5	6	4	4	19	NA	0.306	0.306	NA	NA	NA	NA	NA	NA	NA	NA
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	100%	5	6	4	4	19	0.987	0.989	0.989	NA	NA	NA	NA	NA	NA	NA	NA
30_1_5_129	MW-20	Part 115	Zinc	mg/L	0%	5	6	4	4	19	0.248	0.059	0.111	5	6	4	4	19	0.248	0.059	0.111
38_1_3_105	MW-28	Appendix III	Boron	mg/L	0%	2	3	2	2	9	0.088	0.016 *	0.178	2	3	2	2	9	0.088	0.016 *	0.178
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	0%	2	3	2	2	9	0.729	0.873	0.883	2	3	2	2	9	0.729	0.873	0.883
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	2	2	9	0.764	0.727	0.532	2	3	2	2	9	0.764	0.727	0.532
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	0%	2	3	2	2	9	0.102	0.043 *	0.100	2	3	2	2	9	0.102	0.043 *	0.100
38_1_3_120	MW-28	Appendix III	pH (field)	su	0%	2	3	2	2	9	0.122	0.157	0.160	2	3	2	2	9	0.122	0.157	0.160
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	22%	2	3	2	2	9	0.100	0.061	0.003 **	2	3	1	1	7	0.258	0.300	0.025 *
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	2	2	9	0.732	0.854	0.829	2	3	2	2	9	0.732	0.854	0.829
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	0%	2	3	2	2	9	0.092	0.188	0.055	2	3	2	2	9	0.092	0.188	0.055
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	0%	2	3	2	2	9	0.740	0.676	0.731	2	3	2	2	9	0.740	0.676	0.731
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	0%	2	3	2	2	9	0.196	0.180	0.306	2	3	2	2	9	0.196	0.180	0.306
38_1_4_104	MW-28	Appendix IV	Beryllium	mg/L	100%	2	3	2	2	9	0.572	0.667	0.667	NA	NA	NA	NA	NA	NA	NA	NA
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	56%	2	3	2	2	9	0.130	0.405	0.485	2	2	0	0	4	0.439	0.489	0.701
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	0%	2	3	2	2	9	0.247	0.368	0.324	2	3	2	2	9	0.247	0.368	0.324
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	0%	2	3	2	2	9	0.127	0.172	0.090	2	3	2	2	9	0.127	0.172	0.090
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	2	2	9	0.102	0.043 *	0.100	2	3	2	2	9	0.102	0.043 *	0.100
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	0%	2	3	2	2	9	0.164	0.638	0.232	2	3	2	2	9	0.164	0.638	0.232
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	0%	2	3	2	2	9	0.108	0.030 *	0.254	2	3	2	2	9	0.108	0.030 *	0.254
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	33%	2	3	2	2	9	0.881	0.998	0.850	1	3	1	1	6	0.300	0.883	0.382
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	0%	2	3	2	2	9	0.532	0.543	0.467	2	3	2	2	9	0.532	0.543	0.467
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	25%	1	3	2	2	8	0.172	0.356	0.302	1	1	2	2	6	0.277	0.616	0.577

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	0%	2	3	2	2	9	0.177	0.377	0.368	2	3	2	2	9	0.177	0.377	0.368
38_1_4_125	MW-28	Appendix IV	Thallium	mg/L	100%	2	3	2	2	9	NA	0.667	0.667	NA	NA	NA	NA	NA	NA	NA	NA
38_1_5_111	MW-28	Part 115	Copper	mg/L	11%	2	3	2	2	9	0.145	0.365	0.155	2	3	2	1	8	0.280	0.504	0.372
38_1_5_114	MW-28	Part 115	Iron	mg/L	0%	2	3	2	2	9	0.254	0.365	0.473	2	3	2	2	9	0.254	0.365	0.473
38_1_5_119	MW-28	Part 115	Nickel	mg/L	0%	2	3	2	2	9	0.098	0.026 *	0.055	2	3	2	2	9	0.098	0.026 *	0.055
38_1_5_123	MW-28	Part 115	Silver	mg/L	100%	2	3	2	2	9	NA	0.667	NA	NA	NA	NA	NA	NA	NA	NA	NA
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	22%	2	3	2	2	9	0.721	0.828	0.817	1	2	2	2	7	0.812	0.816	0.825
38_1_5_129	MW-28	Part 115	Zinc	mg/L	0%	2	3	2	2	9	0.228	0.229	0.306	2	3	2	2	9	0.228	0.229	0.306
40_1_3_105	MW-30	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.685	0.968	0.980	5	6	4	4	19	0.685	0.968	0.980
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.294	0.217	0.159	5	6	4	4	19	0.294	0.217	0.159
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.715	0.898	0.812	5	6	4	4	19	0.715	0.898	0.812
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.552	0.673	0.594	5	6	4	4	19	0.552	0.673	0.594
40_1_3_120	MW-30	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.783	0.590	0.582	5	6	4	4	19	0.783	0.590	0.582
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.024 *	0.002 **	0.002 **	5	6	4	4	19	0.024 *	0.002 **	0.002 **
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.471	0.745	0.715	5	6	4	4	19	0.471	0.745	0.715
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	79%	5	6	4	4	19	0.708	0.704	0.702	2	1	0	1	4	0.259	0.193	0.257
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	11%	5	6	4	4	19	0.444	0.449	0.456	4	5	4	4	17	0.593	0.540	0.622
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.009 **	0.001 ***	0.001 ***	5	6	4	4	19	0.009 **	0.001 ***	0.001 ***
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	79%	5	6	4	4	19	0.095	0.056	0.055	2	0	1	1	4	0.861	0.923	0.949
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	95%	5	6	4	4	19	0.689	0.509	0.715	0	0	0	1	1	NA	NA	NA
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.030 *	0.020 *	0.019 *	5	6	4	4	19	0.030 *	0.020 *	0.019 *
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.053	0.293	0.043 *	5	6	4	4	19	0.053	0.293	0.043 *
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.552	0.673	0.594	5	6	4	4	19	0.552	0.673	0.594
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	89%	5	6	4	4	19	0.977	0.300	0.661	0	0	0	2	2	NA	NA	NA
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.571	0.606	0.570	5	6	4	4	19	0.571	0.606	0.570
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	89%	5	6	4	4	19	0.987	0.976	0.982	1	1	0	0	2	0.317	NA	NA
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	16%	5	6	4	4	19	0.338	0.561	0.647	4	5	4	3	16	0.617	0.449	0.729
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	53%	5	6	4	4	19	0.558	0.430	0.430	3	2	4	0	9	0.170	0.137	0.118
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	37%	5	6	4	4	19	0.030 *	0.225	0.041 *	2	3	4	3	12	0.150	0.387	0.215
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	100%	5	6	4	4	19	0.134	0.125	0.125	NA	NA	NA	NA	NA	NA	NA	NA
40_1_5_111	MW-30	Part 115	Copper	mg/L	68%	5	6	4	4	19	0.065	0.306	0.188	2	2	0	2	6	0.156	0.441	0.275
40_1_5_114	MW-30	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.009 **	0.059	0.003 **	5	6	4	4	19	0.009 **	0.059	0.003 **
40_1_5_119	MW-30	Part 115	Nickel	mg/L	16%	5	6	4	4	19	0.116	0.393	0.134	4	6	4	2	16	0.247	0.372	0.181
40_1_5_123	MW-30	Part 115	Silver	mg/L	95%	5	6	4	4	19	0.242	0.175	0.215	0	0	0	1	1	NA	NA	NA
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	84%	5	6	4	4	19	0.459	0.341	0.334	1	0	1	1	3	0.368	NA	NA
40_1_5_129	MW-30	Part 115	Zinc	mg/L	53%	5	6	4	4	19	0.111	0.146	0.171	2	3	1	3	9	0.122	0.003 **	0.024 *
41_1_3_105	MW-31	Appendix III	Boron	mg/L	0%	6	6	4	3	19	0.073	0.115	0.095	6	6	4	3	19	0.073	0.115	0.095
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	0%	6	6	4	3	19	0.042 *	0.222	0.119	6	6	4	3	19	0.042 *	0.222	0.119
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	0%	6	6	4	3	19	0.126	0.234	0.198	6	6	4	3	19	0.126	0.234	0.198

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	0%	6	6	4	3	19	0.496	0.717	0.745	6	6	4	3	19	0.496	0.717	0.745
41_1_3_120	MW-31	Appendix III	pH (field)	su	0%	6	6	4	3	19	0.990	0.854	0.850	6	6	4	3	19	0.990	0.854	0.850
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	0%	6	6	4	3	19	0.010 *	0.082	0.001 **	6	6	4	3	19	0.010 *	0.082	0.001 **
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	0%	6	6	4	3	19	0.118	0.533	0.454	6	6	4	3	19	0.118	0.533	0.454
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	37%	6	6	4	3	19	0.519	0.572	0.614	4	3	3	2	12	0.689	0.693	0.731
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	0%	6	6	4	3	19	0.376	0.810	0.841	6	6	4	3	19	0.376	0.810	0.841
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	0%	6	6	4	3	19	0.087	0.069	0.071	6	6	4	3	19	0.087	0.069	0.071
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	84%	6	6	4	3	19	0.661	0.734	0.735	2	0	0	1	3	0.221	0.582	0.601
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	95%	6	6	4	3	19	0.546	0.334	0.303	1	0	0	0	1	NA	NA	NA
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	0%	6	6	4	3	19	0.289	0.486	0.416	6	6	4	3	19	0.289	0.486	0.416
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	16%	6	6	4	3	19	0.790	0.664	0.717	5	4	4	3	16	0.570	0.617	0.548
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	0%	6	6	4	3	19	0.496	0.717	0.745	6	6	4	3	19	0.496	0.717	0.745
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	74%	6	6	4	3	19	0.975	0.904	0.943	1	1	2	1	5	0.261	0.000 ***	0.000 ***
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	0%	6	6	4	3	19	0.546	0.918	0.807	6	6	4	3	19	0.546	0.918	0.807
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	74%	6	6	4	3	19	0.802	0.932	0.884	1	2	1	1	5	0.362	0.541	0.711
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	0%	6	6	4	3	19	0.354	0.807	0.651	6	6	4	3	19	0.354	0.807	0.651
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	42%	6	6	4	3	19	0.999	0.979	0.988	3	4	4	0	11	0.931	0.917	0.952
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	32%	6	6	4	3	19	0.527	0.566	0.400	2	4	4	3	13	0.225	0.110	0.022 *
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	95%	6	6	4	3	19	0.539	0.575	0.575	1	0	0	0	1	NA	NA	NA
41_1_5_111	MW-31	Part 115	Copper	mg/L	53%	6	6	4	3	19	0.775	0.667	0.711	2	3	2	2	9	0.912	0.512	0.659
41_1_5_114	MW-31	Part 115	Iron	mg/L	0%	6	6	4	3	19	0.298	0.360	0.329	6	6	4	3	19	0.298	0.360	0.329
41_1_5_119	MW-31	Part 115	Nickel	mg/L	53%	6	6	4	3	19	0.673	0.686	0.722	3	2	2	2	9	0.675	0.759	0.841
41_1_5_123	MW-31	Part 115	Silver	mg/L	100%	6	6	4	3	19	NA	0.575	0.575	NA	NA	NA	NA	NA	NA	NA	NA
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	63%	6	6	4	3	19	0.946	0.508	0.525	1	2	2	2	7	0.658	0.793	0.788
41_1_5_129	MW-31	Part 115	Zinc	mg/L	47%	6	6	4	3	19	0.657	0.603	0.581	3	4	1	2	10	0.522	0.612	0.503
42_1_3_105	MW-32	Appendix III	Boron	mg/L	0%	5	6	4	4	19	0.008 **	0.000 ***	0.000 ***	5	6	4	4	19	0.008 **	0.000 ***	0.000 ***
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	0%	5	6	4	4	19	0.016 *	0.011 *	0.005 **	5	6	4	4	19	0.016 *	0.011 *	0.005 **
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	0%	5	6	4	4	19	0.181	0.161	0.182	5	6	4	4	19	0.181	0.161	0.182
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	0%	5	6	4	4	19	0.384	0.315	0.368	5	6	4	4	19	0.384	0.315	0.368
42_1_3_120	MW-32	Appendix III	pH (field)	su	0%	5	6	4	4	19	0.841	0.971	0.972	5	6	4	4	19	0.841	0.971	0.972
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	0%	5	6	4	4	19	0.006 **	0.007 **	0.001 ***	5	6	4	4	19	0.006 **	0.007 **	0.001 ***
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	0%	5	6	4	4	19	0.011 *	0.002 **	0.001 **	5	6	4	4	19	0.011 *	0.002 **	0.001 **
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	79%	5	6	4	4	19	0.805	0.625	0.958	1	2	0	1	4	0.259	0.091	0.249
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	0%	5	6	4	4	19	0.066	0.612	0.647	5	6	4	4	19	0.066	0.612	0.647
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	0%	5	6	4	4	19	0.073	0.050	0.183	5	6	4	4	19	0.073	0.050	0.183
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	95%	5	6	4	4	19	0.673	0.685	0.698	1	0	0	0	1	NA	NA	NA
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	84%	5	6	4	4	19	0.945	0.815	0.956	2	1	0	0	3	0.221	0.033 *	0.046 *
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	0%	5	6	4	4	19	0.109	0.319	0.180	5	6	4	4	19	0.109	0.319	0.180
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	0%	5	6	4	4	19	0.320	0.920	0.960	5	6	4	4	19	0.320	0.920	0.960

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	0%	5	6	4	4	19	0.384	0.315	0.368	5	6	4	4	19	0.384	0.315	0.368
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	74%	5	6	4	4	19	0.905	0.778	0.828	1	1	2	1	5	0.362	0.717	0.703
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	0%	5	6	4	4	19	0.002 **	0.000 ***	0.000 ***	5	6	4	4	19	0.002 **	0.000 ***	0.000 ***
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	79%	5	6	4	4	19	0.997	0.657	0.983	1	1	1	1	4	0.392	NA	NA
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	0%	5	6	4	4	19	0.565	0.820	0.906	5	6	4	4	19	0.565	0.820	0.906
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	47%	5	6	4	4	19	0.148	0.155	0.148	2	3	2	3	10	0.112	0.039 *	0.043 *
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	79%	5	6	4	4	19	0.267	0.334	0.251	1	1	0	2	4	0.407	0.037 *	0.129
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	100%	5	6	4	4	19	NA	0.306	NA	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_111	MW-32	Part 115	Copper	mg/L	58%	5	6	4	4	19	0.645	0.466	0.599	2	2	2	2	8	0.475	0.486	0.573
42_1_5_114	MW-32	Part 115	Iron	mg/L	0%	5	6	4	4	19	0.156	0.169	0.127	5	6	4	4	19	0.156	0.169	0.127
42_1_5_119	MW-32	Part 115	Nickel	mg/L	0%	5	6	4	4	19	0.287	0.507	0.352	5	6	4	4	19	0.287	0.507	0.352
42_1_5_123	MW-32	Part 115	Silver	mg/L	100%	5	6	4	4	19	NA	0.306	0.306	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	100%	5	6	4	4	19	0.987	0.989	0.989	NA	NA	NA	NA	NA	NA	NA	NA
42_1_5_129	MW-32	Part 115	Zinc	mg/L	0%	5	6	4	4	19	0.509	0.556	0.493	5	6	4	4	19	0.509	0.556	0.493
46_1_3_105	MW-36	Appendix III	Boron	mg/L	0%	2	3	2	2	9	0.108	0.019 *	0.023 *	2	3	2	2	9	0.108	0.019 *	0.023 *
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	0%	2	3	2	2	9	0.697	0.778	0.767	2	3	2	2	9	0.697	0.778	0.767
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	2	2	9	0.692	0.673	0.691	2	3	2	2	9	0.692	0.673	0.691
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	0%	2	3	2	2	9	0.351	0.399	0.394	2	3	2	2	9	0.351	0.399	0.394
46_1_3_120	MW-36	Appendix III	pH (field)	su	0%	2	3	2	2	9	0.230	0.241	0.226	2	3	2	2	9	0.230	0.241	0.226
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	0%	2	3	2	2	9	0.864	0.926	0.926	2	3	2	2	9	0.864	0.926	0.926
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	2	2	9	0.337	0.449	0.484	2	3	2	2	9	0.337	0.449	0.484
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	0%	2	3	2	2	9	0.930	0.687	0.804	2	3	2	2	9	0.930	0.687	0.804
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	0%	2	3	2	2	9	0.602	0.609	0.573	2	3	2	2	9	0.602	0.609	0.573
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	0%	2	3	2	2	9	0.441	0.474	0.429	2	3	2	2	9	0.441	0.474	0.429
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	89%	2	3	2	2	9	0.212	0.530	0.488	0	1	0	0	1	NA	NA	NA
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	11%	2	3	2	2	9	0.406	0.480	0.553	2	2	2	2	8	0.572	0.620	0.730
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	0%	2	3	2	2	9	0.354	0.335	0.344	2	3	2	2	9	0.354	0.335	0.344
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	0%	2	3	2	2	9	0.376	0.584	0.554	2	3	2	2	9	0.376	0.584	0.554
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	2	2	9	0.351	0.399	0.394	2	3	2	2	9	0.351	0.399	0.394
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	0%	2	3	2	2	9	0.406	0.469	0.512	2	3	2	2	9	0.406	0.469	0.512
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	0%	2	3	2	2	9	0.180	0.130	0.143	2	3	2	2	9	0.180	0.130	0.143
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	44%	2	3	2	2	9	0.781	0.984	0.960	1	2	1	1	5	0.284	0.119	0.143
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	0%	2	3	2	2	9	0.402	0.450	0.406	2	3	2	2	9	0.402	0.450	0.406
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	88%	1	3	2	2	8	0.335	0.547	0.540	0	0	0	1	1	NA	NA	NA
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	0%	2	3	2	2	9	0.895	0.896	0.891	2	3	2	2	9	0.895	0.896	0.891
46_1_4_125	MW-36	Appendix IV	Thallium	mg/L	100%	2	3	2	2	9	NA	0.667	0.667	NA	NA	NA	NA	NA	NA	NA	NA
46_1_5_111	MW-36	Part 115	Copper	mg/L	0%	2	3	2	2	9	0.423	0.619	0.690	2	3	2	2	9	0.423	0.619	0.690
46_1_5_114	MW-36	Part 115	Iron	mg/L	0%	2	3	2	2	9	0.498	0.652	0.720	2	3	2	2	9	0.498	0.652	0.720
46_1_5_119	MW-36	Part 115	Nickel	mg/L	0%	2	3	2	2	9	0.414	0.598	0.505	2	3	2	2	9	0.414	0.598	0.505

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
46_1_5_123	MW-36	Part 115	Silver	mg/L	11%	2	3	2	2	9	0.464	0.462	0.572	2	2	2	2	8	0.668	0.584	0.712
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	0%	2	3	2	2	9	0.248	0.333	0.303	2	3	2	2	9	0.248	0.333	0.303
46_1_5_129	MW-36	Part 115	Zinc	mg/L	0%	2	3	2	2	9	0.634	0.763	0.749	2	3	2	2	9	0.634	0.763	0.749
47_1_3_105	MW-37	Appendix III	Boron	mg/L	0%	2	3	2	2	9	0.498	0.576	0.703	2	3	2	2	9	0.498	0.576	0.703
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	0%	2	3	2	2	9	0.239	0.221	0.257	2	3	2	2	9	0.239	0.221	0.257
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	2	2	9	0.319	0.388	0.517	2	3	2	2	9	0.319	0.388	0.517
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	0%	2	3	2	2	9	0.899	0.779	0.753	2	3	2	2	9	0.899	0.779	0.753
47_1_3_120	MW-37	Appendix III	pH (field)	su	0%	2	3	2	2	9	0.339	0.270	0.269	2	3	2	2	9	0.339	0.270	0.269
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	0%	2	3	2	2	9	0.075	0.041 *	0.034 *	2	3	2	2	9	0.075	0.041 *	0.034 *
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	2	2	9	0.241	0.298	0.329	2	3	2	2	9	0.241	0.298	0.329
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	11%	2	3	2	2	9	0.144	0.336	0.210	1	3	2	2	8	0.280	0.486	0.409
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	0%	2	3	2	2	9	0.813	0.815	0.891	2	3	2	2	9	0.813	0.815	0.891
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	0%	2	3	2	2	9	0.200	0.298	0.339	2	3	2	2	9	0.200	0.298	0.339
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	89%	2	3	2	2	9	0.608	0.735	0.730	1	0	0	0	1	NA	NA	NA
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	56%	2	3	2	2	9	0.612	0.739	0.740	0	2	1	1	4	0.407	0.717	0.743
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	0%	2	3	2	2	9	0.438	0.560	0.568	2	3	2	2	9	0.438	0.560	0.568
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	0%	2	3	2	2	9	0.865	0.979	0.943	2	3	2	2	9	0.865	0.979	0.943
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	2	2	9	0.899	0.779	0.753	2	3	2	2	9	0.899	0.779	0.753
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	22%	2	3	2	2	9	0.414	0.395	0.596	1	3	2	1	7	0.250	0.000 ***	0.078
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	0%	2	3	2	2	9	0.334	0.574	0.482	2	3	2	2	9	0.334	0.574	0.482
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	44%	2	3	2	2	9	0.862	0.986	0.966	1	2	1	1	5	0.362	0.246	0.365
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	0%	2	3	2	2	9	0.055	0.013 *	0.006 **	2	3	2	2	9	0.055	0.013 *	0.006 **
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	56%	2	3	2	2	9	0.286	0.370	0.375	2	2	0	0	4	0.121	0.081	0.075
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	0%	2	3	2	2	9	0.158	0.383	0.260	2	3	2	2	9	0.158	0.383	0.260
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	100%	2	3	2	2	9	NA	0.667	0.667	NA	NA	NA	NA	NA	NA	NA	NA
47_1_5_111	MW-37	Part 115	Copper	mg/L	0%	2	3	2	2	9	0.108	0.186	0.086	2	3	2	2	9	0.108	0.186	0.086
47_1_5_114	MW-37	Part 115	Iron	mg/L	11%	2	3	2	2	9	0.329	0.223	0.577	2	3	1	2	8	0.409	0.346	0.606
47_1_5_119	MW-37	Part 115	Nickel	mg/L	0%	2	3	2	2	9	0.279	0.350	0.371	2	3	2	2	9	0.279	0.350	0.371
47_1_5_123	MW-37	Part 115	Silver	mg/L	89%	2	3	2	2	9	0.321	0.372	0.372	0	0	0	1	1	NA	NA	NA
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	56%	2	3	2	2	9	0.557	0.727	0.764	2	0	1	1	4	0.407	0.720	0.766
47_1_5_129	MW-37	Part 115	Zinc	mg/L	0%	2	3	2	2	9	0.903	0.871	0.903	2	3	2	2	9	0.903	0.871	0.903
48_2_3_105	MW-38	Appendix III	Boron	mg/L	0%	2	3	2	2	9	0.106	0.075	0.353	2	3	2	2	9	0.106	0.075	0.353
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	0%	2	3	2	2	9	0.395	0.624	0.533	2	3	2	2	9	0.395	0.624	0.533
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	0%	2	3	2	2	9	0.498	0.604	0.501	2	3	2	2	9	0.498	0.604	0.501
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	0%	2	3	2	2	9	0.112	0.203	0.141	2	3	2	2	9	0.112	0.203	0.141
48_2_3_120	MW-38	Appendix III	pH (field)	su	0%	2	3	2	2	9	0.328	0.424	0.392	2	3	2	2	9	0.328	0.424	0.392
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	0%	2	3	2	2	9	0.934	0.990	0.951	2	3	2	2	9	0.934	0.990	0.951
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	0%	2	3	2	2	9	0.228	0.525	0.327	2	3	2	2	9	0.228	0.525	0.327
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	22%	2	3	2	2	9	0.753	0.829	0.711	2	2	2	1	7	0.975	0.987	0.959

(Table continues on next page)

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 7: Seasonality Tests *(continued)*

						Full								Without Non-Detects							
						Sample Size					p-Value			Sample Size					p-Value		
ID	Well	Constituent Type	Constituent	Unit	% NDs	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA	Winter	Spring	Summer	Fall	Total	Kruskal-Wallis	ANOVA	Log ANOVA
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	0%	2	3	2	2	9	0.756	0.819	0.857	2	3	2	2	9	0.756	0.819	0.857
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	0%	2	3	2	2	9	0.536	0.666	0.743	2	3	2	2	9	0.536	0.666	0.743
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	67%	2	3	2	2	9	0.465	0.704	0.764	0	0	1	2	3	1.000	0.886	0.927
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	44%	2	3	2	2	9	0.483	0.697	0.720	2	1	1	1	5	0.362	0.804	0.698
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	11%	2	3	2	2	9	0.279	0.455	0.354	2	2	2	2	8	0.475	0.711	0.672
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	0%	2	3	2	2	9	1.000	0.767	0.921	2	3	2	2	9	1.000	0.767	0.921
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	0%	2	3	2	2	9	0.112	0.203	0.141	2	3	2	2	9	0.112	0.203	0.141
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	11%	2	3	2	2	9	0.675	0.562	0.618	2	3	2	1	8	0.590	0.676	0.664
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	0%	2	3	2	2	9	0.412	0.706	0.705	2	3	2	2	9	0.412	0.706	0.705
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	44%	2	3	2	2	9	0.655	0.964	0.843	1	2	1	1	5	0.284	0.176	0.291
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	0%	2	3	2	2	9	0.427	0.494	0.358	2	3	2	2	9	0.427	0.494	0.358
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	62%	1	3	2	2	8	0.708	0.883	0.875	0	2	0	1	3	1.000	0.993	0.960
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	0%	2	3	2	2	9	0.178	0.205	0.184	2	3	2	2	9	0.178	0.205	0.184
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	100%	2	3	2	2	9	0.572	0.667	0.667	NA	NA	NA	NA	NA	NA	NA	NA
48_2_5_111	MW-38	Part 115	Copper	mg/L	11%	2	3	2	2	9	0.823	0.866	0.635	2	3	2	1	8	0.974	0.982	0.967
48_2_5_114	MW-38	Part 115	Iron	mg/L	0%	2	3	2	2	9	0.264	0.392	0.294	2	3	2	2	9	0.264	0.392	0.294
48_2_5_119	MW-38	Part 115	Nickel	mg/L	0%	2	3	2	2	9	0.776	0.745	0.618	2	3	2	2	9	0.776	0.745	0.618
48_2_5_123	MW-38	Part 115	Silver	mg/L	67%	2	3	2	2	9	0.984	0.885	0.912	1	0	1	1	3	0.368	NA	NA
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	22%	2	3	2	2	9	0.469	0.593	0.422	2	2	2	1	7	0.784	0.868	0.839
48_2_5_129	MW-38	Part 115	Zinc	mg/L	11%	2	3	2	2	9	0.624	0.875	0.640	2	3	2	1	8	0.831	0.975	0.910

*** p < 0.001, ** p < 0.01, * p < 0.05

Table 8: Trend Tests: Lognormal MLE and MK

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000850	0.703	↔
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000560	0.771	↔
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000306	0.217	↔
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000936	0.635	↔
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	Nonparametric	MK	-0.0000135	0.806	↔
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000289	0.665	↔
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000356	0.197	↔
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	19	0	0%	Nonparametric	MK	0	0.914	↔
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000430	0.026	↔
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	19	2	11%	Parametric	Lognormal MLE	-0.000391	0.250	↔
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000262	0.942	↔
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	Nonparametric	MK	0.000000373	0.379	↔
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000936	0.635	↔
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	19	2	11%	Parametric	Lognormal MLE	0.000781	0.106	↔
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000567	0.795	↔
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	Parametric	Lognormal MLE	0.000139	0.793	↔
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	19	0	0%	Nonparametric	MK	0.000000153	0.172	↔
11_2_5_111	MW-01R	Part 115	Copper	mg/L	19	6	32%	Nonparametric	MK	0.000000163	0.007	↑
11_2_5_114	MW-01R	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000750	0.175	↔
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	Nonparametric	MK	0.00000117	0.099	↔
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	19	2	11%	Parametric	Lognormal MLE	0.000980	0.003	↑
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19	3	16%	Parametric	Lognormal MLE	0.00227	0.008	↑
12_2_3_105	MW-02	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000197	0.210	↔
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000893	0.054	↔
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Nonparametric	MK	0	0.148	↔
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000372	0.002	↑
12_2_3_120	MW-02	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.00000529	0.488	↔
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000159	0.015	↔
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	Parametric	Lognormal MLE	0.0000180	0.949	↔
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000184	0.629	↔
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000630	0.559	↔
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	19	2	11%	Parametric	Lognormal MLE	-0.000498	0.137	↔
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000984	0.879	↔
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000327	0.476	↔
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000372	0.002	↑
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	19	1	5%	Parametric	Lognormal MLE	-0.0000418	0.942	↔
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000207	0.125	↔
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000445	0.096	↔
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	18	6	33%	Parametric	Lognormal MLE	-0.000396	0.226	↔
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000361	0.093	↔
12_2_5_111	MW-02	Part 115	Copper	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000400	0.282	↔
12_2_5_114	MW-02	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000782	0.386	↔
12_2_5_119	MW-02	Part 115	Nickel	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000540	0.257	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	19	1	5%	Parametric	Lognormal MLE	0.000244	0.530	↔
12_2_5_129	MW-02	Part 115	Zinc	mg/L	19	0	0%	Nonparametric	MK	0.00000113	0.462	↔
13_2_3_105	MW-03	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000524	0.257	↔
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000148	0.003	↓
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000714	0.000	↓
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	19	0	0%	Nonparametric	MK	0.000154	0.015	↔
13_2_3_120	MW-03	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	0.000000378	0.956	↔
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.00145	0.002	↓
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Nonparametric	MK	-0.605	0.000	↓
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000627	0.712	↔
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000387	0.806	↔
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000306	0.013	↔
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000122	0.562	↔
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Nonparametric	MK	0.000154	0.015	↔
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000411	0.000	↓
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	18	3	17%	Parametric	Lognormal MLE	-0.000499	0.014	↔
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19	3	16%	Parametric	Lognormal MLE	0.000172	0.414	↔
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.00137	0.013	↔
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	Nonparametric	MK	-0.000000329	0.342	↔
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	19	9	47%	Parametric	Lognormal MLE	0.00137	0.000	↑
13_2_5_129	MW-03	Part 115	Zinc	mg/L	19	9	47%	Parametric	Lognormal MLE	0.00165	0.185	↔
14_2_3_105	MW-04	Appendix III	Boron	mg/L	19	0	0%	Nonparametric	MK	-0.000407	0.276	↔
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000218	0.810	↔
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.00194	0.000	↓
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000325	0.003	↑
14_2_3_120	MW-04	Appendix III	pH (field)	su	19	0	0%	Nonparametric	MK	-0.000151	0.050	↔
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000968	0.182	↔
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000200	0.037	↔
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	Nonparametric	MK	0.000000260	0.139	↔
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	Nonparametric	MK	-0.0000235	0.186	↔
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000809	0.001	↓
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000126	0.759	↔
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000325	0.003	↑
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000356	0.004	↓
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	Parametric	Lognormal MLE	-0.000635	0.001	↓
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	19	5	26%	Parametric	Lognormal MLE	0.000464	0.232	↔
14_2_5_114	MW-04	Part 115	Iron	mg/L	19	0	0%	Nonparametric	MK	-0.00113	0.140	↔
14_2_5_119	MW-04	Part 115	Nickel	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000217	0.537	↔
16_1_3_105	MW-06	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.00000786	0.938	↔
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000197	0.002	↓
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000825	0.009	↓
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000153	0.049	↔
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	Nonparametric	MK	0.000143	0.035	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	19	2	11%	Parametric	Lognormal MLE	0.000457	0.564	↔
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Nonparametric	MK	0	0.049	↔
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000384	0.802	↔
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	19	0	0%	Nonparametric	MK	0	0.768	↔
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000454	0.001	↓
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	19	0	0%	Nonparametric	MK	-0.000000137	0.050	↔
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000153	0.049	↔
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000235	0.033	↔
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	19	4	21%	Parametric	Lognormal MLE	0.0000198	0.931	↔
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	19	5	26%	Nonparametric	MK	0	0.661	↔
16_1_5_114	MW-06	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000766	0.000	↓
16_1_5_119	MW-06	Part 115	Nickel	mg/L	19	6	32%	Nonparametric	MK	0	0.568	↔
16_1_5_129	MW-06	Part 115	Zinc	mg/L	19	2	11%	Nonparametric	MK	0.000000448	0.323	↔
17_1_3_105	MW-07	Appendix III	Boron	mg/L	19	0	0%	Nonparametric	MK	-0.00105	0.155	↔
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000111	0.009	↑
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Nonparametric	MK	0.00183	0.020	↔
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	19	4	21%	Parametric	Lognormal MLE	0.000340	0.174	↔
17_1_3_120	MW-07	Appendix III	pH (field)	su	19	0	0%	Nonparametric	MK	-0.0000115	0.778	↔
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000205	0.282	↔
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000187	0.000	↑
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000289	0.014	↔
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000193	0.000	↑
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000796	0.539	↔
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000126	0.066	↔
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	19	4	21%	Parametric	Lognormal MLE	0.000340	0.174	↔
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000730	0.611	↔
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	Parametric	Lognormal MLE	-0.0000929	0.617	↔
17_1_5_114	MW-07	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000252	0.000	↑
18_1_3_105	MW-08	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000307	0.870	↔
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000248	0.000	↓
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Nonparametric	MK	0.0128	0.063	↔
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000265	0.122	↔
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	Nonparametric	MK	0.0000409	0.700	↔
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	19	5	26%	Parametric	Lognormal MLE	0.000825	0.526	↔
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000766	0.479	↔
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000774	0.006	↑
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000202	0.116	↔
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000664	0.000	↓
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000235	0.267	↔
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000265	0.122	↔
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000378	0.001	↓
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	19	1	5%	Parametric	Lognormal MLE	0.000110	0.824	↔
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19	5	26%	Parametric	Lognormal MLE	-0.000470	0.036	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	Parametric	Lognormal MLE	-0.000261	0.284	↔
18_1_5_111	MW-08	Part 115	Copper	mg/L	19	6	32%	Parametric	Lognormal MLE	0.000560	0.089	↔
18_1_5_114	MW-08	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000825	0.000	↓
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	Nonparametric	MK	0.00000253	0.011	↔
18_1_5_129	MW-08	Part 115	Zinc	mg/L	19	3	16%	Nonparametric	MK	0.000000870	0.262	↔
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	Nonparametric	MK	-0.000789	0.150	↔
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000436	0.000	↑
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.00146	0.000	↑
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000126	0.096	↔
19_2_3_120	MW-09	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.0000367	0.000	↓
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.00126	0.000	↑
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000554	0.000	↑
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000103	0.594	↔
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.00164	0.000	↓
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000332	0.011	↔
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	Nonparametric	MK	0	1.000	↔
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000126	0.096	↔
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000155	0.056	↔
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000159	0.357	↔
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	Nonparametric	MK	0.000000211	0.001	↑
19_2_5_114	MW-09	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000276	0.134	↔
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	Parametric	Lognormal MLE	0.00255	0.000	↑
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	Parametric	Lognormal MLE	0.00272	0.016	↔
20_3_3_105	MW-10	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000607	0.028	↔
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000643	0.721	↔
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000943	0.000	↑
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000578	0.734	↔
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	Nonparametric	MK	-0.000127	0.172	↔
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000462	0.183	↔
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000632	0.590	↔
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000809	0.008	↑
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000572	0.007	↑
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	19	9	47%	Parametric	Lognormal MLE	-0.000110	0.797	↔
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000238	0.383	↔
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	Parametric	Lognormal MLE	-0.000327	0.390	↔
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000578	0.734	↔
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000133	0.922	↔
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000956	0.001	↓
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	Parametric	Lognormal MLE	-0.000133	0.454	↔
20_3_5_114	MW-10	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000134	0.947	↔
20_3_5_119	MW-10	Part 115	Nickel	mg/L	19	7	37%	Nonparametric	MK	0.00000000830	0.407	↔
20_3_5_129	MW-10	Part 115	Zinc	mg/L	19	7	37%	Parametric	Lognormal MLE	0.00158	0.110	↔
21_2_3_105	MW-11	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000690	0.037	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000348	0.038	↔
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000132	0.372	↔
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000774	0.011	↔
21_2_3_120	MW-11	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.00000920	0.216	↔
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	19	7	37%	Parametric	Lognormal MLE	-0.00303	0.037	↔
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000228	0.042	↔
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000717	0.004	↑
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000329	0.065	↔
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	Nonparametric	MK	0.000000264	0.220	↔
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000146	0.703	↔
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000774	0.011	↔
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000814	0.104	↔
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	19	2	11%	Parametric	Lognormal MLE	0.000894	0.019	↔
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	18	7	39%	Parametric	Lognormal MLE	-0.000788	0.007	↓
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	Parametric	Lognormal MLE	0.000244	0.329	↔
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	Nonparametric	MK	0.000000132	0.416	↔
21_2_5_114	MW-11	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000687	0.000	↑
21_2_5_119	MW-11	Part 115	Nickel	mg/L	19	0	0%	Nonparametric	MK	0.000000888	0.062	↔
21_2_5_129	MW-11	Part 115	Zinc	mg/L	19	4	21%	Parametric	Lognormal MLE	0.00185	0.078	↔
22_2_3_105	MW-12	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000583	0.774	↔
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000188	0.270	↔
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000246	0.082	↔
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000182	0.234	↔
22_2_3_120	MW-12	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.00000502	0.826	↔
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.00107	0.000	↓
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000709	0.735	↔
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000112	0.730	↔
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000153	0.524	↔
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.00100	0.000	↑
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000843	0.033	↔
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	19	6	32%	Parametric	Lognormal MLE	0.0000816	0.860	↔
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	Parametric	Lognormal MLE	0.00125	0.067	↔
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000182	0.234	↔
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	19	6	32%	Parametric	Lognormal MLE	0.00116	0.000	↑
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	19	1	5%	Parametric	Lognormal MLE	-0.000108	0.662	↔
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000551	0.759	↔
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000364	0.568	↔
22_2_5_111	MW-12	Part 115	Copper	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000891	0.000	↑
22_2_5_119	MW-12	Part 115	Nickel	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000169	0.527	↔
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	19	6	32%	Parametric	Lognormal MLE	0.000469	0.126	↔
22_2_5_129	MW-12	Part 115	Zinc	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000850	0.001	↑
26_1_3_105	MW-16	Appendix III	Boron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.0000979	0.806	↔
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.0000473	0.765	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000276	0.163	↔
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	9	1	11%	Parametric	Lognormal MLE	0.000583	0.275	↔
26_1_3_120	MW-16	Appendix III	pH (field)	su	9	0	0%	Parametric	Lognormal MLE	0.0000168	0.755	↔
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	Parametric	Lognormal MLE	0.00410	0.234	↔
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	Parametric	Lognormal MLE	0.0000328	0.786	↔
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00116	0.309	↔
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000500	0.066	↔
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000218	0.736	↔
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000534	0.344	↔
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	9	1	11%	Parametric	Lognormal MLE	0.000583	0.275	↔
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.0000581	0.826	↔
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	9	4	44%	Parametric	Lognormal MLE	0.000366	0.256	↔
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	9	1	11%	Parametric	Lognormal MLE	0.000535	0.113	↔
26_1_5_111	MW-16	Part 115	Copper	mg/L	9	4	44%	Parametric	Lognormal MLE	0.000528	0.251	↔
26_1_5_114	MW-16	Part 115	Iron	mg/L	9	0	0%	Parametric	Lognormal MLE	0.0000540	0.958	↔
26_1_5_119	MW-16	Part 115	Nickel	mg/L	9	1	11%	Parametric	Lognormal MLE	0.00256	0.030	↔
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	9	3	33%	Parametric	Lognormal MLE	0.000224	0.693	↔
26_1_5_129	MW-16	Part 115	Zinc	mg/L	9	2	22%	Parametric	Lognormal MLE	0.00476	0.035	↔
27_1_3_105	MW-17	Appendix III	Boron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000736	0.082	↔
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000323	0.046	↔
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00129	0.002	↓
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000366	0.152	↔
27_1_3_120	MW-17	Appendix III	pH (field)	su	9	0	0%	Parametric	Lognormal MLE	0.000000718	0.983	↔
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	9	1	11%	Parametric	Lognormal MLE	-0.00248	0.268	↔
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000461	0.011	↔
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000368	0.283	↔
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000251	0.562	↔
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	9	0	0%	Parametric	Lognormal MLE	0.0000529	0.930	↔
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	9	0	0%	Parametric	Lognormal MLE	0.0000209	0.966	↔
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000366	0.152	↔
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	9	1	11%	Parametric	Lognormal MLE	0.000614	0.578	↔
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000643	0.050	↔
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	9	0	0%	Nonparametric	MK	-0.0000000656	0.754	↔
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	9	3	33%	Parametric	Lognormal MLE	0.000341	0.431	↔
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	9	0	0%	Nonparametric	MK	0.0000000629	0.598	↔
27_1_5_111	MW-17	Part 115	Copper	mg/L	9	1	11%	Parametric	Lognormal MLE	0.000712	0.624	↔
27_1_5_114	MW-17	Part 115	Iron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000564	0.149	↔
27_1_5_119	MW-17	Part 115	Nickel	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000374	0.691	↔
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000604	0.048	↔
27_1_5_129	MW-17	Part 115	Zinc	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00205	0.221	↔
28_1_3_105	MW-18	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000368	0.028	↔
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000272	0.013	↔
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000144	0.258	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000279	0.777	↔
28_1_3_120	MW-18	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	0.0000121	0.034	↔
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000419	0.016	↔
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000409	0.000	↓
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	Parametric	Lognormal MLE	0.000992	0.008	↑
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000322	0.872	↔
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000601	0.005	↑
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	19	7	37%	Parametric	Lognormal MLE	0.000594	0.378	↔
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000962	0.000	↓
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000279	0.777	↔
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000735	0.555	↔
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000373	0.006	↑
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.00127	0.022	↔
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	Nonparametric	MK	0.000000463	0.011	↔
28_1_5_114	MW-18	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000504	0.005	↓
28_1_5_119	MW-18	Part 115	Nickel	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000200	0.297	↔
28_1_5_129	MW-18	Part 115	Zinc	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000319	0.377	↔
29_1_3_105	MW-19	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000136	0.266	↔
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000207	0.000	↓
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000754	0.000	↓
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000155	0.033	↔
29_1_3_120	MW-19	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.0000154	0.218	↔
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000206	0.034	↔
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000267	0.000	↓
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000954	0.000	↓
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000203	0.005	↓
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	19	3	16%	Parametric	Lognormal MLE	0.000650	0.000	↑
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	Parametric	Lognormal MLE	-0.000291	0.125	↔
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	19	1	5%	Parametric	Lognormal MLE	0.0000121	0.978	↔
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000155	0.033	↔
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000212	0.000	↓
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000384	0.084	↔
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	Parametric	Lognormal MLE	-0.000438	0.056	↔
29_1_5_114	MW-19	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000365	0.015	↔
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	Parametric	Lognormal MLE	0.000963	0.009	↑
30_1_3_105	MW-20	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000142	0.189	↔
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000827	0.489	↔
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.00101	0.000	↓
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000131	0.391	↔
30_1_3_120	MW-20	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.00000200	0.799	↔
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000253	0.411	↔
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000256	0.004	↓
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	Parametric	Lognormal MLE	0.000232	0.580	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000461	0.683	↔
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000124	0.443	↔
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000288	0.020	↔
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000131	0.391	↔
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	19	0	0%	Nonparametric	MK	-0.000000101	0.622	↔
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000404	0.004	↓
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000169	0.127	↔
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	Parametric	Lognormal MLE	0.000789	0.031	↔
30_1_5_114	MW-20	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000338	0.000	↓
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	Nonparametric	MK	-0.000000735	0.599	↔
30_1_5_129	MW-20	Part 115	Zinc	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000216	0.489	↔
38_1_3_105	MW-28	Appendix III	Boron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00226	0.037	↔
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000304	0.188	↔
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000124	0.923	↔
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000935	0.122	↔
38_1_3_120	MW-28	Appendix III	pH (field)	su	9	0	0%	Parametric	Lognormal MLE	-0.0000144	0.549	↔
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	Parametric	Lognormal MLE	0.00305	0.325	↔
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000325	0.347	↔
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00209	0.044	↔
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000272	0.671	↔
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	9	0	0%	Nonparametric	MK	-0.0000301	0.523	↔
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00138	0.086	↔
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00167	0.124	↔
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000935	0.122	↔
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00252	0.055	↔
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00270	0.039	↔
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	9	3	33%	Parametric	Lognormal MLE	-0.00242	0.347	↔
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00287	0.000	↑
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	Parametric	Lognormal MLE	0.0000241	0.929	↔
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	9	0	0%	Nonparametric	MK	0.000000119	0.208	↔
38_1_5_111	MW-28	Part 115	Copper	mg/L	9	1	11%	Parametric	Lognormal MLE	0.00228	0.130	↔
38_1_5_114	MW-28	Part 115	Iron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00255	0.031	↔
38_1_5_119	MW-28	Part 115	Nickel	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000598	0.644	↔
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	9	2	22%	Parametric	Lognormal MLE	0.000108	0.719	↔
38_1_5_129	MW-28	Part 115	Zinc	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00278	0.161	↔
40_1_3_105	MW-30	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000241	0.017	↔
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	19	0	0%	Nonparametric	MK	0.00939	0.779	↔
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Nonparametric	MK	0.255	0.169	↔
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	19	0	0%	Nonparametric	MK	0	0.913	↔
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.00000345	0.808	↔
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Nonparametric	MK	-0.0412	0.623	↔
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Nonparametric	MK	0.568	0.047	↔
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	Parametric	Lognormal MLE	0.00204	0.000	↑

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000673	0.691	↔
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000298	0.251	↔
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	Nonparametric	MK	-0.000000136	0.674	↔
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Nonparametric	MK	0	0.913	↔
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.00000833	0.955	↔
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	Parametric	Lognormal MLE	0.00108	0.024	↔
40_1_5_114	MW-30	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000158	0.717	↔
41_1_3_105	MW-31	Appendix III	Boron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000349	0.000	↑
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	19	0	0%	Nonparametric	MK	0	0.943	↔
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Nonparametric	MK	0.0128	0.101	↔
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	19	0	0%	Nonparametric	MK	-0.00105	0.000	↓
41_1_3_120	MW-31	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.0000167	0.176	↔
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000269	0.548	↔
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Nonparametric	MK	0.0204	0.699	↔
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	Nonparametric	MK	0.000000147	0.571	↔
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000398	0.020	↔
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000553	0.000	↑
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	Nonparametric	MK	0.0000000497	0.378	↔
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Nonparametric	MK	-0.00105	0.000	↓
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000150	0.215	↔
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	Nonparametric	MK	0.000000407	0.547	↔
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	Parametric	Lognormal MLE	-0.000249	0.224	↔
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000514	0.940	↔
41_1_5_129	MW-31	Part 115	Zinc	mg/L	19	9	47%	Parametric	Lognormal MLE	0.00248	0.016	↔
42_1_3_105	MW-32	Appendix III	Boron	mg/L	19	0	0%	Nonparametric	MK	0.000513	0.091	↔
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000249	0.784	↔
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.0000390	0.665	↔
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000199	0.003	↓
42_1_3_120	MW-32	Appendix III	pH (field)	su	19	0	0%	Parametric	Lognormal MLE	-0.00000740	0.255	↔
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000584	0.425	↔
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000139	0.859	↔
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	Nonparametric	MK	-0.0000000793	0.234	↔
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000352	0.381	↔
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	Nonparametric	MK	-0.0000000794	0.123	↔
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	Nonparametric	MK	0.000000179	0.115	↔
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000199	0.003	↓
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	19	0	0%	Parametric	Lognormal MLE	0.0000475	0.721	↔
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	19	0	0%	Parametric	Lognormal MLE	-0.000788	0.000	↓
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	Parametric	Lognormal MLE	0.000147	0.418	↔
42_1_5_114	MW-32	Part 115	Iron	mg/L	19	0	0%	Parametric	Lognormal MLE	0.000113	0.361	↔
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	Nonparametric	MK	-0.000000142	0.551	↔
42_1_5_129	MW-32	Part 115	Zinc	mg/L	19	0	0%	Nonparametric	MK	0.00000286	0.080	↔
46_1_3_105	MW-36	Appendix III	Boron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.0000729	0.865	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000258	0.032	↔
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000819	0.000	↓
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000117	0.613	↔
46_1_3_120	MW-36	Appendix III	pH (field)	su	9	0	0%	Parametric	Lognormal MLE	-0.000204	0.095	↔
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000496	0.445	↔
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000206	0.128	↔
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000296	0.674	↔
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00147	0.000	↓
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000409	0.130	↔
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	9	1	11%	Parametric	Lognormal MLE	-0.00260	0.001	↓
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00129	0.002	↓
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000569	0.012	↔
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000117	0.613	↔
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00235	0.001	↓
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000402	0.406	↔
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	9	4	44%	Parametric	Lognormal MLE	0.0000780	0.952	↔
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000296	0.442	↔
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.0000578	0.834	↔
46_1_5_111	MW-36	Part 115	Copper	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00257	0.000	↓
46_1_5_114	MW-36	Part 115	Iron	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00117	0.006	↑
46_1_5_119	MW-36	Part 115	Nickel	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00102	0.001	↓
46_1_5_123	MW-36	Part 115	Silver	mg/L	9	1	11%	Parametric	Lognormal MLE	-0.00281	0.000	↓
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000102	0.779	↔
46_1_5_129	MW-36	Part 115	Zinc	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000185	0.843	↔
47_1_3_105	MW-37	Appendix III	Boron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00114	0.084	↔
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.0000949	0.674	↔
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00225	0.000	↓
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	9	0	0%	Parametric	Lognormal MLE	0.0000951	0.654	↔
47_1_3_120	MW-37	Appendix III	pH (field)	su	9	0	0%	Parametric	Lognormal MLE	0.0000336	0.168	↔
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000207	0.696	↔
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000311	0.059	↔
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	9	1	11%	Parametric	Lognormal MLE	-0.000723	0.547	↔
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000611	0.029	↔
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000557	0.190	↔
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000603	0.450	↔
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00115	0.000	↓
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	Parametric	Lognormal MLE	0.0000951	0.654	↔
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	9	2	22%	Nonparametric	MK	0.0000000443	0.598	↔
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.00000960	0.987	↔
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	9	4	44%	Parametric	Lognormal MLE	0.000376	0.856	↔
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000199	0.675	↔
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000830	0.515	↔
47_1_5_111	MW-37	Part 115	Copper	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000628	0.419	↔

(Table continues on next page)

Table 8: Trend Tests: Lognormal MLE and MK *(continued)*

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Type	Method	Slope	p-value	Trend
47_1_5_114	MW-37	Part 115	Iron	mg/L	9	1	11%	Parametric	Lognormal MLE	0.00364	0.201	↔
47_1_5_119	MW-37	Part 115	Nickel	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00130	0.000	↓
47_1_5_129	MW-37	Part 115	Zinc	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000542	0.172	↔
48_2_3_105	MW-38	Appendix III	Boron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00379	0.012	↔
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	9	0	0%	Nonparametric	MK	0.0429	0.917	↔
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00213	0.000	↓
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000577	0.160	↔
48_2_3_120	MW-38	Appendix III	pH (field)	su	9	0	0%	Parametric	Lognormal MLE	0.000165	0.287	↔
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00230	0.004	↓
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.0000404	0.952	↔
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	9	2	22%	Parametric	Lognormal MLE	-0.00268	0.045	↔
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00217	0.001	↓
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000103	0.923	↔
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	9	1	11%	Parametric	Lognormal MLE	-0.00211	0.052	↔
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000485	0.620	↔
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000577	0.160	↔
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	9	1	11%	Parametric	Lognormal MLE	-0.00432	0.013	↔
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	9	0	0%	Parametric	Lognormal MLE	0.000113	0.846	↔
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	9	4	44%	Parametric	Lognormal MLE	0.00115	0.438	↔
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00132	0.259	↔
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000154	0.883	↔
48_2_5_111	MW-38	Part 115	Copper	mg/L	9	1	11%	Parametric	Lognormal MLE	-0.00107	0.638	↔
48_2_5_114	MW-38	Part 115	Iron	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.00217	0.184	↔
48_2_5_119	MW-38	Part 115	Nickel	mg/L	9	0	0%	Parametric	Lognormal MLE	-0.000351	0.782	↔
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	9	2	22%	Parametric	Lognormal MLE	-0.00339	0.072	↔
48_2_5_129	MW-38	Part 115	Zinc	mg/L	9	1	11%	Parametric	Lognormal MLE	-0.000429	0.826	↔

Table 9: Trend Tests: Piecewise Linear-Linear

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	19	0	0%	0.03878	0.147	↔	-0.8871	0.292	↔	2026-01-17	0.239
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	19	0	0%	-0.072244	0.201	↔	3.0645	0.096	↔	2026-02-01	0.343
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.010473	0.756	↔	-0.80645	0.459	↔	2026-01-14	0.203
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	19	0	0%	0.0038353	0.143	↔	-0.098387	0.234	↔	2026-01-29	0.238
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	0.0051548	0.307	↔	< 0.0001	0.887	↔	2023-04-09	0.226
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.31438	0.153	↔	9.3548	0.182	↔	2026-01-24	0.290
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.44775	0.514	↔	0.019114	0.868	↔	2023-08-07	0.122
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19	3	16%	< 0.0001	0.161	↔	< 0.0001	0.000	↑	2026-01-23	0.871
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.514	↔	< 0.0001	0.407	↔	2024-02-12	0.089
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	19	0	0%	0.00030697	0.003	↑	-0.0041935	0.153	↔	2026-01-21	0.496

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	19	2	11%	< 0.0001	0.162	↔	< 0.0001	0.512	↔	2024-08-20	0.186
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	19	13	68%	< 0.0001	0.396	↔	< 0.0001	0.000	↑	2026-02-10	0.937
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.277	↔	< 0.0001	0.091	↔	2024-02-12	0.243
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.612	↔	0.00098387	0.000	↑	2026-01-27	0.997
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.0038353	0.143	↔	-0.098387	0.234	↔	2026-01-29	0.238
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	19	2	11%	< 0.0001	0.479	↔	< 0.0001	0.049	↔	2025-12-23	0.690
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	19	0	0%	0.00055918	0.321	↔	-0.019355	0.285	↔	2026-02-03	0.168
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	19	15	79%	< 0.0001	1.000	↔	-0.29506	0.000	↓	2024-07-16	0.835
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	< 0.0001	0.391	↔	< 0.0001	0.050	↔	2026-02-01	0.438
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	19	13	68%	0.0049143	0.586	↔	< 0.0001	0.854	↔	2023-01-25	0.118
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	19	0	0%	< 0.0001	0.870	↔	< 0.0001	0.001	↑	2026-02-17	0.676
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.175	↔	< 0.0001	0.023	↔	2023-05-10	0.365
11_2_5_111	MW-01R	Part 115	Copper	mg/L	19	6	32%	< 0.0001	0.961	↔	< 0.0001	0.007	↑	2026-01-04	0.809
11_2_5_114	MW-01R	Part 115	Iron	mg/L	19	0	0%	-0.00071149	0.010	↔	0.0058651	0.023	↔	2025-09-05	0.571
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.983	↔	0.00080645	0.000	↑	2026-01-31	0.914
11_2_5_123	MW-01R	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.595	↔	< 0.0001	0.039	↔	2023-02-07	0.279
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	19	2	11%	< 0.0001	0.038	↔	< 0.0001	0.964	↔	2023-06-28	0.451
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19	3	16%	< 0.0001	0.112	↔	0.0014194	0.000	↑	2026-01-25	0.923
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.030076	0.072	↔	-0.1443	0.344	↔	2025-09-16	0.239
12_2_3_120	MW-02	Appendix III	pH (field)	su	19	0	0%	0.0028129	0.452	↔	< 0.0001	0.155	↔	2023-02-07	0.252
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.56694	0.023	↔	-0.80185	0.522	↔	2025-06-01	0.356
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	< 0.0001	0.440	↔	< 0.0001	0.215	↔	2023-04-17	0.161
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.155	↔	< 0.0001	0.532	↔	2024-02-13	0.221
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	19	0	0%	-0.00017859	0.161	↔	0.000219	0.396	↔	2024-10-26	0.164
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	19	2	11%	< 0.0001	0.241	↔	< 0.0001	0.943	↔	2024-04-10	0.186
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	19	13	68%	< 0.0001	0.212	↔	< 0.0001	0.125	↔	2023-05-23	0.225
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.814	↔	< 0.0001	0.310	↔	2024-02-13	0.131
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	19	1	5%	< 0.0001	0.260	↔	< 0.0001	0.397	↔	2025-03-27	0.125
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	19	0	0%	0.00062078	0.114	↔	-0.00056797	0.783	↔	2025-04-19	0.193
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	19	14	74%	< 0.0001	1.000	↔	-0.30196	0.000	↓	2024-07-26	0.848
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.467	↔	< 0.0001	0.052	↔	2024-03-13	0.321
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	18	6	33%	-0.0041271	0.098	↔	0.0010212	0.243	↔	2024-01-05	0.365
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	19	0	0%	< 0.0001	0.039	↔	< 0.0001	0.354	↔	2025-10-18	0.303
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.383	↔	< 0.0001	0.284	↔	2024-12-05	0.141
12_2_5_114	MW-02	Part 115	Iron	mg/L	19	0	0%	-0.0034667	0.232	↔	0.10938	0.224	↔	2026-02-16	0.178
12_2_5_119	MW-02	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.468	↔	< 0.0001	0.071	↔	2024-02-13	0.306
12_2_5_123	MW-02	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.238	↔	< 0.0001	1.000	↔	2024-04-30	0.215
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	19	1	5%	< 0.0001	0.267	↔	< 0.0001	0.759	↔	2023-07-08	0.162
12_2_5_129	MW-02	Part 115	Zinc	mg/L	19	0	0%	< 0.0001	0.738	↔	0.00020279	0.449	↔	2025-11-14	0.410
13_2_3_105	MW-03	Appendix III	Boron	mg/L	19	0	0%	0.00013762	0.648	↔	-0.0024107	0.159	↔	2025-07-14	0.254
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	19	0	0%	0.16284	0.583	↔	-0.072492	0.010	↓	2023-05-22	0.408
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.82219	0.019	↔	-0.063974	0.002	↓	2023-04-17	0.836

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	19	0	0%	-0.0032746	0.117	↔	0.0002417	0.166	↔	2023-04-27	0.295
13_2_3_120	MW-03	Appendix III	pH (field)	su	19	0	0%	0.00017118	0.599	↔	< 0.0001	0.455	↔	2024-02-13	0.063
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	3.7216	0.031	↔	-0.53196	0.000	↓	2023-03-31	0.740
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2.4609	0.195	↔	-0.68697	0.000	↓	2023-03-29	0.780
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	19	13	68%	< 0.0001	0.115	↔	< 0.0001	0.017	↔	2023-04-18	0.400
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.589	↔	< 0.0001	0.355	↔	2025-04-08	0.100
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	19	12	63%	< 0.0001	0.469	↔	< 0.0001	0.748	↔	2026-01-16	0.043
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.316	↔	< 0.0001	0.104	↔	2023-05-22	0.230
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.437	↔	< 0.0001	0.516	↔	2023-10-23	0.285
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.373	↔	< 0.0001	0.257	↔	2023-08-07	0.135
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0032746	0.117	↔	0.0002417	0.166	↔	2023-04-27	0.295
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	19	18	95%	< 0.0001	0.077	↔	< 0.0001	0.001	↓	2023-02-07	0.597
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.069	↔	< 0.0001	0.581	↔	2024-01-09	0.604
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	19	14	74%	0.16107	0.196	↔	-0.26028	0.000	↓	2023-11-26	0.819
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	19	13	68%	< 0.0001	0.089	↔	< 0.0001	0.380	↔	2025-09-19	0.216
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	18	3	17%	-0.0010817	0.022	↔	0.001361	0.188	↔	2024-12-31	0.394
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19	3	16%	< 0.0001	0.744	↔	< 0.0001	0.448	↔	2024-02-19	0.063
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.854	↔	< 0.0001	0.054	↔	2024-07-17	0.380
13_2_5_111	MW-03	Part 115	Copper	mg/L	19	9	47%	< 0.0001	0.334	↔	< 0.0001	0.352	↔	2024-04-07	0.117
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	-0.022027	0.001	↓	0.00025386	0.686	↔	2023-06-09	0.783
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	< 0.0001	0.134	↔	< 0.0001	0.986	↔	2023-04-24	0.316
13_2_5_123	MW-03	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.576	↔	< 0.0001	0.040	↔	2023-02-06	0.276
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	19	9	47%	< 0.0001	0.449	↔	< 0.0001	0.904	↔	2024-07-17	0.113
13_2_5_129	MW-03	Part 115	Zinc	mg/L	19	9	47%	< 0.0001	0.457	↔	< 0.0001	0.023	↔	2025-04-18	0.457
14_2_3_105	MW-04	Appendix III	Boron	mg/L	19	0	0%	0.0011025	0.088	↔	-0.0066877	0.000	↓	2024-12-11	0.818
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	19	0	0%	0.57494	0.675	↔	-0.015365	0.737	↔	2023-03-06	0.047
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	19	0	0%	0.0029837	0.637	↔	0.00038801	0.081	↔	2023-03-13	0.345
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	3.2043	0.210	↔	-0.012633	0.928	↔	2023-04-18	0.355
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.037851	0.847	↔	-3.7026	0.569	↔	2025-10-23	0.361
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	19	13	68%	< 0.0001	0.239	↔	< 0.0001	0.256	↔	2023-04-28	0.191
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.922	↔	< 0.0001	0.124	↔	2024-07-01	0.292
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	-0.00093373	0.377	↔	< 0.0001	0.775	↔	2023-04-18	0.246
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	19	16	84%	< 0.0001	0.519	↔	< 0.0001	0.000	↑	2025-10-21	0.937
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	19	19	100%	< 0.0001	0.342	↔	< 0.0001	0.125	↔	2023-05-22	0.209
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.430	↔	< 0.0001	0.118	↔	2024-12-06	0.286
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.0029837	0.637	↔	0.00038801	0.081	↔	2023-03-13	0.345
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	19	15	79%	< 0.0001	0.641	↔	< 0.0001	0.810	↔	2023-10-23	0.099
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.369	↔	< 0.0001	0.029	↔	2023-08-07	0.397
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	19	15	79%	< 0.0001	1.000	↔	-0.30554	0.000	↓	2024-07-26	0.848
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	19	2	11%	< 0.0001	0.919	↔	< 0.0001	0.029	↔	2024-03-27	0.467
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	-0.00126	0.026	↔	0.00032037	0.474	↔	2024-06-21	0.494
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	19	5	26%	< 0.0001	0.123	↔	< 0.0001	0.169	↔	2025-04-20	0.241

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.548	↔	< 0.0001	0.163	↔	2023-02-06	0.193
14_2_5_114	MW-04	Part 115	Iron	mg/L	19	0	0%	-0.0046311	0.005	↓	0.0088642	0.267	↔	2025-04-21	0.450
14_2_5_119	MW-04	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.277	↔	< 0.0001	0.051	↔	2023-06-27	0.279
14_2_5_123	MW-04	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.576	↔	< 0.0001	0.040	↔	2023-02-06	0.276
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	19	10	53%	< 0.0001	0.000	↑	< 0.0001	0.024	↔	2024-10-15	0.662
14_2_5_129	MW-04	Part 115	Zinc	mg/L	19	10	53%	< 0.0001	0.883	↔	< 0.0001	0.000	↑	2025-08-10	0.834
16_1_3_105	MW-06	Appendix III	Boron	mg/L	19	0	0%	-0.0043561	0.284	↔	0.0031377	0.177	↔	2024-04-06	0.180
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	19	0	0%	0.61511	0.259	↔	-0.070076	0.001	↓	2023-03-13	0.553
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.21733	0.011	↔	0.029153	0.293	↔	2024-02-09	0.698
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	19	0	0%	-0.0028703	0.423	↔	0.0002913	0.021	↔	2023-03-11	0.334
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	-0.0035925	0.675	↔	0.00032286	0.026	↔	2023-02-05	0.295
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	19	2	11%	-0.020074	0.446	↔	0.099319	0.082	↔	2024-12-12	0.340
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.33561	0.284	↔	-0.013791	0.851	↔	2023-10-23	0.307
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	19	16	84%	< 0.0001	0.635	↔	< 0.0001	0.329	↔	2023-02-02	0.114
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.412	↔	< 0.0001	0.517	↔	2023-10-24	0.074
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	19	0	0%	-0.0015231	0.444	↔	0.00010858	0.326	↔	2023-04-17	0.145
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	19	16	84%	< 0.0001	0.219	↔	< 0.0001	0.000	↑	2026-02-15	1.000
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	19	19	100%	< 0.0001	0.346	↔	< 0.0001	0.124	↔	2023-05-22	0.209
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.135	↔	< 0.0001	0.887	↔	2024-04-06	0.413
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0028703	0.423	↔	0.0002913	0.021	↔	2023-03-11	0.334
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	19	10	53%	< 0.0001	0.097	↔	< 0.0001	0.685	↔	2024-08-03	0.275
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	19	0	0%	-0.00016566	0.032	↔	< 0.0001	0.323	↔	2024-04-06	0.490
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	19	14	74%	< 0.0001	1.000	↔	-0.30363	0.000	↓	2024-07-23	0.844
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	19	10	53%	< 0.0001	0.223	↔	< 0.0001	0.000	↑	2026-02-14	0.756
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	19	4	21%	-0.000455	0.533	↔	0.00040204	0.518	↔	2024-04-21	0.055
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.615	↔	< 0.0001	0.083	↔	2023-02-05	0.216
16_1_5_111	MW-06	Part 115	Copper	mg/L	19	13	68%	< 0.0001	0.185	↔	< 0.0001	0.000	↑	2026-02-15	0.996
16_1_5_114	MW-06	Part 115	Iron	mg/L	19	0	0%	0.012485	0.331	↔	-0.021436	0.008	↓	2024-02-13	0.533
16_1_5_123	MW-06	Part 115	Silver	mg/L	19	18	95%	< 0.0001	0.153	↔	< 0.0001	0.370	↔	2026-02-05	0.173
16_1_5_129	MW-06	Part 115	Zinc	mg/L	19	2	11%	< 0.0001	0.678	↔	0.00018838	0.117	↔	2025-03-25	0.307
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	19	0	0%	0.00020486	0.997	↔	0.019116	0.094	↔	2023-08-04	0.290
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.010682	0.054	↔	0.0035114	0.000	↑	2023-05-29	0.739
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	19	4	21%	< 0.0001	0.968	↔	0.00012064	0.190	↔	2024-10-14	0.254
17_1_3_120	MW-07	Appendix III	pH (field)	su	19	0	0%	-0.0012145	0.630	↔	< 0.0001	0.470	↔	2023-03-12	0.078
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.24603	0.046	↔	0.030181	0.757	↔	2024-04-08	0.497
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	19	18	95%	< 0.0001	0.000	↑	< 0.0001	0.957	↔	2023-07-11	0.912
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.300	↔	< 0.0001	0.016	↔	2024-05-28	0.469
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	19	0	0%	< 0.0001	0.001	↑	-0.0013115	0.072	↔	2026-02-16	0.614
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	19	14	74%	< 0.0001	0.616	↔	< 0.0001	0.000	↑	2025-09-13	0.830
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	19	19	100%	< 0.0001	0.000	↑	< 0.0001	1.000	↔	2023-07-30	0.856
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.095	↔	< 0.0001	0.118	↔	2024-07-17	0.296
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.474	↔	< 0.0001	0.232	↔	2026-02-09	0.297

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	19	4	21%	< 0.0001	0.968	↔	0.00012064	0.190	↔	2024-10-14	0.254
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	19	19	100%	< 0.0001	0.000	↓	< 0.0001	1.000	↔	2023-07-30	0.856
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.255	↔	< 0.0001	0.194	↔	2024-02-13	0.179
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	19	18	95%	< 0.0001	1.000	↔	-0.30463	0.000	↓	2024-07-23	0.845
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	19	19	100%	< 0.0001	0.000	↓	< 0.0001	0.666	↔	2023-08-04	0.847
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	-0.00049673	0.354	↔	0.00073949	0.503	↔	2025-02-25	0.105
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	19	9	47%	< 0.0001	0.053	↔	< 0.0001	0.908	↔	2023-06-26	0.545
17_1_5_111	MW-07	Part 115	Copper	mg/L	19	14	74%	< 0.0001	0.172	↔	< 0.0001	0.230	↔	2025-02-25	0.213
17_1_5_119	MW-07	Part 115	Nickel	mg/L	19	14	74%	< 0.0001	0.675	↔	< 0.0001	0.000	↓	2024-12-20	0.873
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	19	12	63%	< 0.0001	0.004	↑	< 0.0001	0.487	↔	2025-10-22	0.482
17_1_5_129	MW-07	Part 115	Zinc	mg/L	19	10	53%	< 0.0001	0.738	↔	0.00016388	0.449	↔	2025-11-15	0.431
18_1_3_105	MW-08	Appendix III	Boron	mg/L	19	0	0%	0.07228	0.038	↔	-0.0016625	0.124	↔	2023-02-07	0.410
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	19	0	0%	-0.012799	0.267	↔	-0.25305	0.031	↔	2025-10-21	0.597
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.054489	0.002	↑	-0.32183	0.508	↔	2025-10-22	0.495
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	19	0	0%	< 0.0001	0.889	↔	0.0010081	0.465	↔	2025-05-30	0.160
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	0.0051918	0.350	↔	< 0.0001	0.932	↔	2023-03-13	0.269
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	19	5	26%	-0.091878	0.477	↔	0.026863	0.094	↔	2023-06-03	0.212
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.11622	0.092	↔	-1.5672	0.023	↔	2025-10-06	0.482
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	19	11	58%	< 0.0001	0.566	↔	< 0.0001	0.923	↔	2024-02-13	0.078
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.705	↔	< 0.0001	0.046	↔	2025-02-25	0.483
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	19	0	0%	-0.00070639	0.425	↔	< 0.0001	0.979	↔	2023-10-24	0.114
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.001	↑	< 0.0001	0.931	↔	2023-08-15	0.761
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.283	↔	< 0.0001	0.000	↓	2023-01-22	0.686
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.591	↔	< 0.0001	0.669	↔	2025-10-25	0.171
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	< 0.0001	0.889	↔	0.0010081	0.465	↔	2025-05-30	0.160
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	19	12	63%	< 0.0001	0.263	↔	< 0.0001	0.478	↔	2024-10-16	0.112
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	19	0	0%	0.0013429	0.041	↔	< 0.0001	0.000	↓	2023-01-15	0.700
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	19	17	89%	< 0.0001	1.000	↔	-0.30375	0.000	↓	2024-07-23	0.843
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	19	1	5%	< 0.0001	0.725	↔	< 0.0001	0.105	↔	2025-10-21	0.297
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19	5	26%	-0.0010183	0.086	↔	0.0001975	0.789	↔	2024-07-18	0.302
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	< 0.0001	0.800	↔	< 0.0001	0.300	↔	2025-02-26	0.260
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.099	↔	< 0.0001	0.289	↔	2025-02-26	0.223
18_1_5_111	MW-08	Part 115	Copper	mg/L	19	6	32%	< 0.0001	0.091	↔	< 0.0001	0.241	↔	2025-02-03	0.276
18_1_5_114	MW-08	Part 115	Iron	mg/L	19	0	0%	-0.16071	0.069	↔	-0.0091134	0.003	↓	2023-02-18	0.722
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.013	↔	< 0.0001	0.388	↔	2024-10-16	0.419
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	19	16	84%	< 0.0001	0.450	↔	< 0.0001	0.000	↓	2025-02-25	0.757
18_1_5_129	MW-08	Part 115	Zinc	mg/L	19	3	16%	< 0.0001	0.699	↔	< 0.0001	0.266	↔	2023-09-30	0.108
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	0.00032479	0.761	↔	-0.0042421	0.070	↔	2024-12-20	0.406
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	19	0	0%	1.2615	0.100	↔	0.13326	0.005	↑	2023-03-14	0.685
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	19	0	0%	0.0027124	0.183	↔	-0.00062978	0.017	↔	2023-06-26	0.378
19_2_3_120	MW-09	Appendix III	pH (field)	su	19	0	0%	0.00062908	0.499	↔	-0.00033224	0.001	↓	2023-05-13	0.610
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.50118	0.002	↑	5.1563	0.245	↔	2026-01-30	0.690

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	4.7268	0.107	↔	0.67252	0.001	↑	2023-03-27	0.774
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	19	12	63%	< 0.0001	0.433	↔	< 0.0001	0.177	↔	2023-04-17	0.175
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	-0.0077107	0.168	↔	-0.0001535	0.612	↔	2023-04-17	0.456
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.983	↔	< 0.0001	0.479	↔	2025-08-13	0.156
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.285	↔	< 0.0001	0.699	↔	2025-10-20	0.328
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.119	↔	< 0.0001	0.000	↑	2026-02-13	0.981
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.0027124	0.183	↔	-0.00062978	0.017	↔	2023-06-26	0.378
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	19	17	89%	< 0.0001	0.433	↔	< 0.0001	0.937	↔	2024-04-07	0.085
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.638	↔	0.0029688	0.000	↑	2026-01-29	0.838
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	19	14	74%	3.7631	0.171	↔	-1.4664	0.033	↔	2023-10-23	0.339
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.037	↔	< 0.0001	0.005	↑	2023-05-22	0.563
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	< 0.0001	0.668	↔	< 0.0001	0.034	↔	2025-08-12	0.506
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.690	↔	< 0.0001	0.485	↔	2024-07-16	0.045
19_2_5_111	MW-09	Part 115	Copper	mg/L	19	11	58%	< 0.0001	0.695	↔	< 0.0001	0.025	↔	2025-09-15	0.633
19_2_5_114	MW-09	Part 115	Iron	mg/L	19	0	0%	0.00080947	0.846	↔	-0.046822	0.242	↔	2025-10-01	0.214
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.081	↔	< 0.0001	0.726	↔	2025-02-25	0.269
19_2_5_123	MW-09	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.382	↔	< 0.0001	0.064	↔	2023-04-17	0.254
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	19	15	79%	< 0.0001	0.526	↔	< 0.0001	0.168	↔	2025-10-20	0.770
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	< 0.0001	0.987	↔	0.00021643	0.092	↔	2025-07-27	0.364
20_3_3_105	MW-10	Appendix III	Boron	mg/L	19	0	0%	-0.30556	0.295	↔	0.011543	0.022	↔	2023-01-08	0.340
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	19	0	0%	0.33087	0.108	↔	-0.27141	0.119	↔	2024-05-30	0.275
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.41825	0.000	↑	-1.8462	0.514	↔	2025-11-06	0.593
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	19	0	0%	-0.038889	0.516	↔	0.00051315	0.592	↔	2023-01-23	0.114
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	-0.00036798	0.182	↔	0.0018108	0.825	↔	2025-10-20	0.119
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	1.1051	0.120	↔	-1.1334	0.065	↔	2024-04-07	0.343
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	1.5509	0.028	↔	-1.4794	0.095	↔	2024-08-02	0.379
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	19	15	79%	< 0.0001	0.343	↔	< 0.0001	0.114	↔	2023-04-18	0.201
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.003	↑	< 0.0001	0.577	↔	2025-10-20	0.467
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	19	0	0%	-0.00012239	0.544	↔	0.00069671	0.016	↔	2024-09-30	0.499
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	19	9	47%	< 0.0001	0.448	↔	< 0.0001	0.368	↔	2023-05-22	0.120
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	19	19	100%	< 0.0001	0.347	↔	< 0.0001	0.124	↔	2023-05-22	0.209
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.478	↔	< 0.0001	0.415	↔	2024-04-08	0.085
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	< 0.0001	0.375	↔	< 0.0001	0.844	↔	2024-05-12	0.108
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.038889	0.516	↔	0.00051315	0.592	↔	2023-01-23	0.114
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	19	17	89%	< 0.0001	0.534	↔	< 0.0001	0.008	↓	2023-02-05	0.402
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	0.0023517	0.641	↔	-0.00013493	0.414	↔	2023-03-13	0.081
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	19	16	84%	1.2121	0.217	↔	-1.0806	0.060	↔	2024-04-06	0.280
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.041	↔	< 0.0001	0.549	↔	2023-08-25	0.564
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	19	15	79%	0.0025226	0.780	↔	< 0.0001	0.765	↔	2023-02-05	0.037
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	< 0.0001	0.396	↔	< 0.0001	0.091	↔	2024-02-12	0.212
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.743	↔	< 0.0001	0.232	↔	2024-08-01	0.215
20_3_5_111	MW-10	Part 115	Copper	mg/L	19	16	84%	< 0.0001	0.759	↔	< 0.0001	0.247	↔	2023-05-02	0.104

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
20_3_5_114	MW-10	Part 115	Iron	mg/L	19	0	0%	0.0017239	0.374	↔	-0.0052036	0.398	↔	2025-03-03	0.105
20_3_5_119	MW-10	Part 115	Nickel	mg/L	19	7	37%	< 0.0001	0.409	↔	< 0.0001	0.364	↔	2024-08-08	0.104
20_3_5_123	MW-10	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.578	↔	< 0.0001	0.040	↔	2023-02-05	0.275
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	19	12	63%	< 0.0001	0.042	↔	< 0.0001	0.534	↔	2025-10-20	0.335
20_3_5_129	MW-10	Part 115	Zinc	mg/L	19	7	37%	< 0.0001	0.539	↔	0.00019679	0.006	↑	2025-10-19	0.670
21_2_3_105	MW-11	Appendix III	Boron	mg/L	19	0	0%	-0.0011075	0.735	↔	0.02361	0.201	↔	2025-04-20	0.373
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	19	0	0%	1.2051	0.354	↔	-0.12703	0.009	↓	2023-03-13	0.406
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.29854	0.166	↔	0.0028844	0.804	↔	2023-03-17	0.251
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	19	0	0%	< 0.0001	0.907	↔	0.0041894	0.031	↔	2025-08-11	0.486
21_2_3_120	MW-11	Appendix III	pH (field)	su	19	0	0%	-0.00020274	0.020	↔	0.0009003	0.053	↔	2025-08-01	0.428
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	19	7	37%	0.76568	0.499	↔	-0.092675	0.024	↔	2023-03-13	0.312
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2.528	0.229	↔	-0.39942	0.033	↔	2023-04-20	0.323
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	19	14	74%	< 0.0001	0.554	↔	< 0.0001	0.986	↔	2023-10-23	0.105
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.486	↔	< 0.0001	0.009	↑	2025-01-02	0.575
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	19	0	0%	< 0.0001	0.735	↔	0.0040482	0.020	↔	2025-10-12	0.530
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	19	13	68%	< 0.0001	0.301	↔	< 0.0001	0.316	↔	2024-04-06	0.148
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	19	16	84%	< 0.0001	0.441	↔	< 0.0001	0.784	↔	2023-09-23	0.100
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.176	↔	< 0.0001	0.599	↔	2023-04-18	0.211
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.959	↔	< 0.0001	0.566	↔	2025-02-24	0.044
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	< 0.0001	0.907	↔	0.0041894	0.031	↔	2025-08-11	0.486
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19	3	16%	-0.0002027	0.187	↔	< 0.0001	0.452	↔	2023-04-25	0.217
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	19	0	0%	-0.0010986	0.114	↔	< 0.0001	0.058	↔	2023-03-23	0.349
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	19	13	68%	0.66702	0.124	↔	-0.69762	0.063	↔	2024-04-07	0.347
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	19	2	11%	< 0.0001	0.574	↔	< 0.0001	0.025	↔	2025-02-25	0.552
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	18	7	39%	-0.0010839	0.119	↔	0.00059205	0.306	↔	2024-07-17	0.293
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	< 0.0001	0.908	↔	< 0.0001	0.833	↔	2025-04-20	0.013
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.532	↔	< 0.0001	0.068	↔	2023-03-21	0.229
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	< 0.0001	0.326	↔	< 0.0001	0.557	↔	2023-04-17	0.213
21_2_5_114	MW-11	Part 115	Iron	mg/L	19	0	0%	0.0024868	0.154	↔	0.058767	0.271	↔	2025-10-23	0.721
21_2_5_119	MW-11	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.408	↔	< 0.0001	0.160	↔	2023-04-30	0.163
21_2_5_123	MW-11	Part 115	Silver	mg/L	19	16	84%	< 0.0001	0.480	↔	< 0.0001	0.904	↔	2025-01-30	0.077
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	19	13	68%	< 0.0001	0.141	↔	< 0.0001	0.258	↔	2024-04-07	0.202
21_2_5_129	MW-11	Part 115	Zinc	mg/L	19	4	21%	-0.00017328	0.034	↔	< 0.0001	0.003	↑	2023-11-10	0.565
22_2_3_105	MW-12	Appendix III	Boron	mg/L	19	0	0%	0.00017897	0.020	↔	-0.0017057	0.456	↔	2025-10-22	0.430
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	19	0	0%	0.0014142	0.922	↔	-0.2459	0.601	↔	2025-12-12	0.155
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	19	0	0%	-0.0013994	0.223	↔	< 0.0001	0.981	↔	2023-04-18	0.352
22_2_3_120	MW-12	Appendix III	pH (field)	su	19	0	0%	0.0037404	0.575	↔	-0.00017304	0.441	↔	2023-03-12	0.100
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.16024	0.002	↓	-0.040496	0.289	↔	2024-04-08	0.782
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.044592	0.498	↔	-1.9672	0.361	↔	2026-01-19	0.167
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	19	0	0%	< 0.0001	0.285	↔	< 0.0001	0.190	↔	2023-11-18	0.172
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.035	↔	< 0.0001	0.604	↔	2025-10-22	0.312
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	19	0	0%	< 0.0001	0.001	↑	-0.00025601	0.660	↔	2025-10-22	0.556

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	19	18	95%	< 0.0001	0.225	↔	< 0.0001	0.000	↑	2026-01-23	1.000
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	19	0	0%	< 0.0001	0.009	↑	< 0.0001	0.495	↔	2025-12-04	0.394
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	19	6	32%	< 0.0001	0.549	↔	< 0.0001	0.517	↔	2024-03-26	0.054
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	< 0.0001	0.008	↑	< 0.0001	0.605	↔	2025-10-22	0.401
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0013994	0.223	↔	< 0.0001	0.981	↔	2023-04-18	0.352
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	19	6	32%	< 0.0001	0.139	↔	< 0.0001	0.690	↔	2025-10-22	0.413
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	19	1	5%	< 0.0001	0.495	↔	< 0.0001	0.477	↔	2023-06-26	0.083
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	19	12	63%	0.07775	0.264	↔	-0.29821	0.000	↓	2024-04-11	0.828
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.197	↔	< 0.0001	0.318	↔	2024-10-16	0.171
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	19	11	58%	0.0014295	0.501	↔	< 0.0001	0.552	↔	2023-04-18	0.111
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	19	0	0%	< 0.0001	0.312	↔	< 0.0001	0.208	↔	2023-07-24	0.162
22_2_5_111	MW-12	Part 115	Copper	mg/L	19	0	0%	< 0.0001	0.021	↔	< 0.0001	0.606	↔	2025-10-22	0.604
22_2_5_114	MW-12	Part 115	Iron	mg/L	19	6	32%	0.00035545	0.023	↔	-0.0016849	0.717	↔	2025-10-22	0.306
22_2_5_119	MW-12	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.018	↔	< 0.0001	0.308	↔	2025-12-25	0.380
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	19	6	32%	< 0.0001	0.108	↔	< 0.0001	0.190	↔	2024-10-15	0.268
22_2_5_129	MW-12	Part 115	Zinc	mg/L	19	0	0%	< 0.0001	0.709	↔	< 0.0001	0.008	↑	2024-02-13	0.592
26_1_3_105	MW-16	Appendix III	Boron	mg/L	9	0	0%	0.00023703	0.276	↔	-0.0012698	0.587	↔	2025-11-03	0.433
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	9	0	0%	0.21537	0.305	↔	-0.1083	0.177	↔	2025-02-01	0.489
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	9	1	11%	-0.0002565	0.706	↔	0.00013601	0.209	↔	2024-10-16	0.310
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	-0.0052055	0.967	↔	0.95238	0.514	↔	2025-11-18	0.557
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	1.4851	0.185	↔	-0.12857	0.408	↔	2024-08-02	0.445
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	9	8	89%	< 0.0001	0.302	↔	< 0.0001	0.272	↔	2024-10-17	0.380
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.952	↔	< 0.0001	0.532	↔	2025-04-12	0.141
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	9	0	0%	< 0.0001	0.763	↔	0.00054304	0.093	↔	2025-08-07	0.586
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	9	8	89%	< 0.0001	0.298	↔	< 0.0001	0.000	↑	2026-02-16	1.000
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	9	0	0%	< 0.0001	0.162	↔	< 0.0001	0.669	↔	2025-10-21	0.419
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	9	1	11%	-0.0002565	0.706	↔	0.00013601	0.209	↔	2024-10-16	0.310
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	9	6	67%	< 0.0001	0.207	↔	< 0.0001	0.705	↔	2025-10-21	0.360
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	9	0	0%	< 0.0001	0.215	↔	< 0.0001	0.289	↔	2025-12-30	0.537
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	9	7	78%	-0.35542	0.034	↔	0.00014371	1.000	↔	2025-10-07	0.775
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	9	4	44%	< 0.0001	0.995	↔	0.00077094	0.339	↔	2025-04-04	0.321
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	9	1	11%	< 0.0001	0.116	↔	< 0.0001	0.531	↔	2026-01-04	0.450
26_1_5_114	MW-16	Part 115	Iron	mg/L	9	0	0%	-0.0073792	0.502	↔	0.025564	0.456	↔	2025-08-13	0.278
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	9	3	33%	< 0.0001	0.256	↔	< 0.0001	0.176	↔	2025-10-20	0.458
26_1_5_129	MW-16	Part 115	Zinc	mg/L	9	2	22%	< 0.0001	0.636	↔	0.00012058	0.505	↔	2025-10-21	0.712
27_1_3_105	MW-17	Appendix III	Boron	mg/L	9	0	0%	0.00012898	0.774	↔	-0.0025608	0.621	↔	2025-10-22	0.476
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	9	0	0%	-0.017635	0.659	↔	-0.16818	0.712	↔	2025-11-20	0.394
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	-0.013671	0.489	↔	-0.078352	0.229	↔	2025-08-12	0.716
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	9	1	11%	-0.023673	0.678	↔	0.05931	0.738	↔	2025-08-12	0.073
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	-0.042903	0.792	↔	-1.0099	0.091	↔	2025-10-19	0.694
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	9	7	78%	< 0.0001	0.972	↔	< 0.0001	0.426	↔	2025-07-11	0.259
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.498	↔	< 0.0001	0.975	↔	2025-02-03	0.189

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	9	0	0%	0.00033588	0.518	↔	-0.0017349	0.302	↔	2025-10-21	0.289
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	9	8	89%	< 0.0001	1.000	↔	< 0.0001	0.425	↔	2025-07-13	0.267
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	9	1	11%	< 0.0001	0.739	↔	< 0.0001	0.351	↔	2026-01-05	0.482
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	9	0	0%	< 0.0001	0.804	↔	< 0.0001	0.156	↔	2025-10-06	0.553
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	9	6	67%	-0.36916	0.026	↔	0.0085628	0.982	↔	2025-09-21	0.795
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	9	0	0%	< 0.0001	0.887	↔	< 0.0001	0.395	↔	2025-07-26	0.236
27_1_5_111	MW-17	Part 115	Copper	mg/L	9	1	11%	< 0.0001	0.812	↔	< 0.0001	0.299	↔	2025-09-09	0.433
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	9	0	0%	< 0.0001	0.139	↔	< 0.0001	0.559	↔	2025-09-27	0.468
27_1_5_129	MW-17	Part 115	Zinc	mg/L	9	0	0%	< 0.0001	0.980	↔	0.00027712	0.171	↔	2025-10-21	0.531
28_1_3_105	MW-18	Appendix III	Boron	mg/L	19	0	0%	0.0032397	0.000	↑	-0.0057323	0.004	↓	2025-03-26	0.776
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	19	0	0%	-1.1356	0.154	↔	-0.038774	0.360	↔	2023-03-24	0.419
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.0029442	0.435	↔	-0.044541	0.221	↔	2025-08-12	0.301
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	19	0	0%	0.0043268	0.278	↔	-0.00041441	0.528	↔	2023-07-06	0.135
28_1_3_120	MW-18	Appendix III	pH (field)	su	19	0	0%	0.00016741	0.002	↑	-0.0016129	0.268	↔	2025-12-14	0.528
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.012139	0.967	↔	-1.0044	0.114	↔	2025-02-25	0.307
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-4.1849	0.286	↔	-0.35775	0.012	↔	2023-03-12	0.622
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	< 0.0001	0.847	↔	< 0.0001	0.053	↔	2025-06-03	0.534
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.021	↔	< 0.0001	0.071	↔	2024-11-02	0.416
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	< 0.0001	0.182	↔	0.00098387	0.000	↑	2026-02-16	0.897
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	19	15	79%	< 0.0001	0.396	↔	< 0.0001	0.000	↑	2026-02-08	0.979
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	19	7	37%	< 0.0001	0.199	↔	< 0.0001	0.004	↑	2025-05-14	0.743
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.000	↓	< 0.0001	0.009	↓	2023-04-17	0.915
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.0043268	0.278	↔	-0.00041441	0.528	↔	2023-07-06	0.135
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	19	12	63%	< 0.0001	0.272	↔	< 0.0001	0.982	↔	2024-09-13	0.197
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.914	↔	< 0.0001	0.636	↔	2025-04-20	0.031
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	19	15	79%	< 0.0001	1.000	↔	-0.30209	0.000	↓	2024-07-22	0.843
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.027	↔	< 0.0001	0.889	↔	2025-10-22	0.308
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	-0.00019437	0.611	↔	< 0.0001	0.988	↔	2024-05-14	0.048
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	19	0	0%	< 0.0001	0.150	↔	< 0.0001	0.000	↑	2026-02-12	0.853
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.688	↔	< 0.0001	0.182	↔	2023-02-07	0.138
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	< 0.0001	0.727	↔	< 0.0001	0.020	↔	2025-07-28	0.577
28_1_5_114	MW-18	Part 115	Iron	mg/L	19	0	0%	-0.045647	0.160	↔	-0.0013735	0.197	↔	2023-02-20	0.461
28_1_5_119	MW-18	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.009	↓	< 0.0001	0.183	↔	2023-05-06	0.611
28_1_5_123	MW-18	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.954	↔	< 0.0001	0.345	↔	2024-01-31	0.107
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	19	17	89%	< 0.0001	1.000	↔	< 0.0001	0.000	↓	2025-01-10	0.867
28_1_5_129	MW-18	Part 115	Zinc	mg/L	19	0	0%	< 0.0001	0.146	↔	0.00028581	0.008	↑	2024-12-09	0.566
29_1_3_105	MW-19	Appendix III	Boron	mg/L	19	0	0%	0.0006294	0.088	↔	-0.009375	0.394	↔	2026-01-17	0.221
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	19	0	0%	-0.37831	0.101	↔	-0.053766	0.160	↔	2023-07-12	0.574
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.24111	0.002	↓	-0.016155	0.010	↔	2023-04-19	0.819
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	19	0	0%	-0.0043526	0.374	↔	-0.00015493	0.338	↔	2023-03-07	0.333
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-5.2418	0.415	↔	-0.13737	0.168	↔	2023-02-07	0.447
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-2.4187	0.002	↓	-0.24662	0.033	↔	2023-06-28	0.824

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.725	↔	< 0.0001	0.009	↓	2024-10-15	0.562
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	19	0	0%	< 0.0001	0.130	↔	< 0.0001	0.245	↔	2023-03-28	0.492
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	19	3	16%	< 0.0001	0.590	↔	< 0.0001	0.213	↔	2023-10-17	0.123
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	19	17	89%	< 0.0001	0.493	↔	< 0.0001	0.787	↔	2023-05-19	0.100
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	< 0.0001	0.140	↔	< 0.0001	0.644	↔	2023-05-22	0.347
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	19	1	5%	< 0.0001	0.210	↔	< 0.0001	0.151	↔	2023-11-08	0.211
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0043526	0.374	↔	-0.00015493	0.338	↔	2023-03-07	0.333
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	19	19	100%	< 0.0001	0.596	↔	< 0.0001	0.022	↔	2023-02-07	0.321
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.077	↔	< 0.0001	0.819	↔	2024-02-12	0.596
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	19	17	89%	< 0.0001	1.000	↔	-0.30407	0.000	↓	2024-07-23	0.844
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.773	↔	< 0.0001	0.068	↔	2024-02-12	0.283
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	0.0051834	0.562	↔	-0.00025234	0.076	↔	2023-02-07	0.245
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	19	11	58%	< 0.0001	0.676	↔	< 0.0001	0.105	↔	2025-04-06	0.307
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.238	↔	< 0.0001	0.161	↔	2023-02-08	0.211
29_1_5_111	MW-19	Part 115	Copper	mg/L	19	15	79%	< 0.0001	0.462	↔	< 0.0001	0.891	↔	2023-07-09	0.082
29_1_5_114	MW-19	Part 115	Iron	mg/L	19	0	0%	0.010927	0.021	↔	-0.023549	0.001	↓	2024-08-27	0.687
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	< 0.0001	0.065	↔	< 0.0001	0.651	↔	2025-12-15	0.217
29_1_5_123	MW-19	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.289	↔	< 0.0001	0.049	↔	2023-02-08	0.279
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	19	14	74%	< 0.0001	0.449	↔	< 0.0001	0.972	↔	2023-07-28	0.125
29_1_5_129	MW-19	Part 115	Zinc	mg/L	19	10	53%	< 0.0001	0.932	↔	0.00014663	0.018	↔	2025-01-17	0.561
30_1_3_105	MW-20	Appendix III	Boron	mg/L	19	0	0%	0.00029446	0.057	↔	-0.0020968	0.652	↔	2025-11-18	0.238
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	19	0	0%	-0.16319	0.311	↔	0.02565	0.189	↔	2023-06-12	0.174
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.088267	0.391	↔	-0.057003	0.000	↓	2023-05-18	0.799
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	-0.0082857	0.000	↓	< 0.0001	0.657	↔	2023-01-07	0.764
30_1_3_120	MW-20	Appendix III	pH (field)	su	19	0	0%	0.00010913	0.348	↔	-0.00038145	0.304	↔	2025-02-26	0.147
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.19284	0.137	↔	0.012478	0.673	↔	2023-08-22	0.259
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	< 0.0001	0.814	↔	< 0.0001	0.540	↔	2024-07-17	0.128
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.405	↔	< 0.0001	0.317	↔	2024-09-11	0.111
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	19	0	0%	-0.0094286	0.094	↔	< 0.0001	0.625	↔	2023-01-21	0.471
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.013	↔	< 0.0001	0.713	↔	2025-10-22	0.351
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	19	10	53%	< 0.0001	0.983	↔	< 0.0001	0.154	↔	2025-07-18	0.301
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.022	↔	< 0.0001	0.167	↔	2025-01-22	0.425
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0082857	0.000	↓	< 0.0001	0.657	↔	2023-01-07	0.764
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	19	0	0%	< 0.0001	0.163	↔	< 0.0001	0.667	↔	2025-12-05	0.146
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.818	↔	< 0.0001	0.033	↔	2023-06-27	0.346
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	19	14	74%	< 0.0001	1.000	↔	-0.28841	0.000	↓	2024-07-17	0.837
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.102	↔	< 0.0001	0.021	↔	2024-12-09	0.466
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	18	9	50%	-0.018514	0.050	↔	< 0.0001	0.504	↔	2023-01-15	0.507
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	19	11	58%	< 0.0001	0.288	↔	< 0.0001	0.668	↔	2023-07-16	0.152
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.327	↔	< 0.0001	0.126	↔	2024-02-12	0.207
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	< 0.0001	0.053	↔	< 0.0001	0.818	↔	2025-10-22	0.230
30_1_5_114	MW-20	Part 115	Iron	mg/L	19	0	0%	-0.0018657	0.679	↔	-0.0079639	0.051	↔	2024-04-08	0.562

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.590	↔	< 0.0001	0.310	↔	2024-11-02	0.162
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	19	19	100%	< 0.0001	1.000	↔	< 0.0001	0.000	↓	2025-01-08	0.875
30_1_5_129	MW-20	Part 115	Zinc	mg/L	19	0	0%	< 0.0001	0.334	↔	< 0.0001	0.082	↔	2023-12-24	0.236
38_1_3_105	MW-28	Appendix III	Boron	mg/L	9	0	0%	0.0017485	0.659	↔	-0.024941	0.575	↔	2025-10-24	0.507
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	9	0	0%	0.068464	0.479	↔	-0.30628	0.084	↔	2025-08-11	0.560
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.7814	0.013	↔	-0.49441	0.001	↓	2025-02-06	0.926
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	9	0	0%	0.00081438	0.372	↔	-0.0067373	0.500	↔	2025-10-24	0.578
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	0.088044	0.446	↔	-0.0023942	0.979	↔	2025-02-27	0.218
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	1.5897	0.059	↔	-1.3518	0.002	↓	2025-02-16	0.884
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	9	0	0%	< 0.0001	0.845	↔	< 0.0001	0.122	↔	2025-10-18	0.640
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.400	↔	< 0.0001	0.763	↔	2025-08-14	0.164
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	9	0	0%	0.00038903	0.479	↔	-0.0027018	0.153	↔	2025-10-01	0.524
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	9	5	56%	< 0.0001	0.994	↔	< 0.0001	0.266	↔	2025-08-03	0.399
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	9	0	0%	< 0.0001	0.381	↔	< 0.0001	0.976	↔	2025-04-20	0.358
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.00081438	0.372	↔	-0.0067373	0.500	↔	2025-10-24	0.578
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	9	0	0%	< 0.0001	0.604	↔	0.00011563	0.044	↔	2026-01-07	0.895
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	9	0	0%	< 0.0001	0.554	↔	-0.00070673	0.529	↔	2025-10-23	0.565
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	9	3	33%	-0.45955	0.008	↓	0.18976	0.596	↔	2025-09-11	0.853
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	9	0	0%	< 0.0001	0.073	↔	< 0.0001	0.971	↔	2025-10-23	0.583
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	0.00037478	0.428	↔	-0.00077611	0.878	↔	2025-10-24	0.168
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	9	0	0%	< 0.0001	0.986	↔	< 0.0001	0.340	↔	2025-07-23	0.331
38_1_5_111	MW-28	Part 115	Copper	mg/L	9	1	11%	< 0.0001	0.895	↔	< 0.0001	0.204	↔	2025-09-28	0.569
38_1_5_114	MW-28	Part 115	Iron	mg/L	9	0	0%	0.015713	0.574	↔	-0.17956	0.081	↔	2025-09-09	0.724
38_1_5_119	MW-28	Part 115	Nickel	mg/L	9	0	0%	< 0.0001	0.676	↔	< 0.0001	0.743	↔	2025-02-26	0.154
38_1_5_129	MW-28	Part 115	Zinc	mg/L	9	0	0%	0.00010392	0.616	↔	0.00068549	0.315	↔	2025-10-22	0.486
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	19	0	0%	0.069768	0.693	↔	-0.43286	0.654	↔	2025-04-23	0.049
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	1.0054	0.000	↑	-8.4375	0.130	↔	2026-01-21	0.724
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	19	0	0%	-0.00016752	0.212	↔	0.003125	0.444	↔	2026-02-01	0.135
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	0.0030933	0.399	↔	-0.00013445	0.257	↔	2023-03-12	0.210
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	1.8111	0.001	↑	-4.7686	0.262	↔	2025-08-11	0.569
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	19	15	79%	< 0.0001	0.144	↔	< 0.0001	0.379	↔	2026-02-08	0.176
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	< 0.0001	0.970	↔	< 0.0001	0.090	↔	2023-12-21	0.332
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	19	0	0%	-0.00045157	0.072	↔	< 0.0001	0.071	↔	2023-03-29	0.419
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	19	15	79%	< 0.0001	0.707	↔	< 0.0001	0.625	↔	2023-06-26	0.029
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.474	↔	< 0.0001	0.689	↔	2023-05-21	0.107
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.492	↔	< 0.0001	0.859	↔	2023-03-26	0.086
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.131	↔	< 0.0001	0.360	↔	2025-02-25	0.188
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.00016752	0.212	↔	0.003125	0.444	↔	2026-02-01	0.135
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	19	17	89%	< 0.0001	0.973	↔	< 0.0001	0.407	↔	2024-05-18	0.121
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	-0.00010141	0.501	↔	< 0.0001	0.497	↔	2023-12-03	0.065
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	19	17	89%	0.18955	0.112	↔	-0.37553	0.001	↓	2024-04-07	0.698
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19	3	16%	< 0.0001	0.825	↔	< 0.0001	0.224	↔	2023-10-27	0.189

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Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	-0.00017491	0.700	↔	0.00025062	0.335	↔	2024-03-10	0.093
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	< 0.0001	0.480	↔	< 0.0001	0.340	↔	2023-07-10	0.091
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.641	↔	< 0.0001	0.533	↔	2024-10-16	0.067
40_1_5_111	MW-30	Part 115	Copper	mg/L	19	13	68%	< 0.0001	0.968	↔	< 0.0001	0.404	↔	2024-05-26	0.118
40_1_5_114	MW-30	Part 115	Iron	mg/L	19	0	0%	0.0053536	0.144	↔	-0.014826	0.447	↔	2025-04-20	0.172
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19	3	16%	< 0.0001	0.096	↔	< 0.0001	0.340	↔	2025-02-25	0.218
40_1_5_123	MW-30	Part 115	Silver	mg/L	19	18	95%	< 0.0001	0.925	↔	< 0.0001	0.639	↔	2025-02-25	0.063
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	19	16	84%	< 0.0001	0.909	↔	< 0.0001	0.364	↔	2024-03-04	0.112
41_1_3_105	MW-31	Appendix III	Boron	mg/L	19	0	0%	0.0012091	0.106	↔	0.0042441	0.078	↔	2025-04-19	0.633
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	19	0	0%	-0.010133	0.649	↔	0.84193	0.232	↔	2025-10-22	0.657
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.022715	0.550	↔	0.065493	0.055	↔	2024-04-08	0.419
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	19	0	0%	-0.00040077	0.264	↔	-0.0034496	0.000	↓	2024-12-27	0.866
41_1_3_120	MW-31	Appendix III	pH (field)	su	19	0	0%	0.00010081	0.251	↔	-0.0048438	0.084	↔	2025-12-11	0.635
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.11728	0.186	↔	2.3064	0.012	↔	2025-10-05	0.552
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.015633	0.860	↔	3.32	0.001	↑	2025-10-12	0.754
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.515	↔	< 0.0001	0.000	↑	2025-07-16	0.798
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	19	0	0%	< 0.0001	0.800	↔	0.00016508	0.043	↔	2024-02-11	0.346
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	19	16	84%	< 0.0001	0.438	↔	< 0.0001	0.335	↔	2025-10-21	0.630
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.000	↑	< 0.0001	0.703	↔	2023-08-15	0.852
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.336	↔	< 0.0001	0.037	↔	2025-08-12	0.708
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	< 0.0001	0.885	↔	< 0.0001	0.022	↔	2025-07-27	0.522
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.00040077	0.264	↔	-0.0034496	0.000	↓	2024-12-27	0.866
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	19	14	74%	< 0.0001	0.227	↔	< 0.0001	0.061	↔	2023-12-19	0.276
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.091	↔	0.00012686	0.003	↑	2025-06-07	0.695
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	19	14	74%	< 0.0001	1.000	↔	-0.30106	0.000	↓	2024-07-21	0.843
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.713	↔	< 0.0001	0.006	↑	2025-01-06	0.642
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	-0.00021807	0.373	↔	0.00066644	0.392	↔	2025-02-25	0.109
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	19	6	32%	< 0.0001	0.992	↔	< 0.0001	0.143	↔	2025-07-12	0.325
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.326	↔	< 0.0001	0.125	↔	2024-02-11	0.207
41_1_5_111	MW-31	Part 115	Copper	mg/L	19	10	53%	< 0.0001	0.854	↔	< 0.0001	0.084	↔	2025-03-22	0.443
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	-0.0018804	0.019	↔	0.019064	0.000	↑	2025-07-03	0.780
41_1_5_119	MW-31	Part 115	Nickel	mg/L	19	10	53%	< 0.0001	0.987	↔	0.00063431	0.093	↔	2025-01-07	0.390
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	19	12	63%	< 0.0001	0.230	↔	< 0.0001	0.079	↔	2024-10-14	0.264
41_1_5_129	MW-31	Part 115	Zinc	mg/L	19	9	47%	< 0.0001	0.555	↔	< 0.0001	0.026	↔	2024-08-10	0.512
42_1_3_105	MW-32	Appendix III	Boron	mg/L	19	0	0%	0.0014757	0.039	↔	-0.0125	0.544	↔	2025-12-18	0.270
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	19	0	0%	-0.042088	0.052	↔	0.35135	0.006	↑	2025-07-31	0.549
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.0064155	0.118	↔	-0.29688	0.026	↔	2026-01-31	0.485
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	19	0	0%	0.00024633	0.221	↔	-0.0010608	0.018	↔	2024-10-16	0.583
42_1_3_120	MW-32	Appendix III	pH (field)	su	19	0	0%	< 0.0001	0.558	↔	-0.00050508	0.270	↔	2025-05-10	0.238
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.093303	0.049	↔	1.8312	0.000	↑	2025-10-20	0.710
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.24057	0.032	↔	0.53963	0.022	↔	2024-12-14	0.465
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	19	15	79%	< 0.0001	0.118	↔	< 0.0001	0.155	↔	2024-02-12	0.254

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.283	↔	< 0.0001	0.057	↔	2024-02-11	0.270
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	19	0	0%	0.00074772	0.001	↑	-0.0054467	0.362	↔	2025-10-21	0.571
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	19	16	84%	< 0.0001	0.135	↔	< 0.0001	0.006	↑	2026-01-05	0.836
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.447	↔	< 0.0001	0.159	↔	2024-02-11	0.158
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.891	↔	< 0.0001	0.001	↑	2026-02-14	0.682
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.00024633	0.221	↔	-0.0010608	0.018	↔	2024-10-16	0.583
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	19	14	74%	< 0.0001	0.734	↔	< 0.0001	0.535	↔	2025-08-11	0.099
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.344	↔	-0.0006875	0.363	↔	2026-02-02	0.126
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	19	15	79%	1.2168	0.217	↔	-1.0845	0.059	↔	2024-04-06	0.281
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.454	↔	< 0.0001	0.001	↓	2024-02-11	0.632
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	0.0013111	0.472	↔	< 0.0001	0.479	↔	2023-04-13	0.115
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	19	15	79%	< 0.0001	0.432	↔	< 0.0001	0.208	↔	2024-02-12	0.155
42_1_5_111	MW-32	Part 115	Copper	mg/L	19	11	58%	< 0.0001	0.316	↔	< 0.0001	0.122	↔	2024-02-11	0.212
42_1_5_114	MW-32	Part 115	Iron	mg/L	19	0	0%	-0.00905	0.011	↔	0.024928	0.002	↑	2024-12-07	0.658
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.987	↔	0.00012969	0.303	↔	2026-02-12	0.135
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	19	19	100%	< 0.0001	1.000	↔	< 0.0001	0.000	↓	2025-01-07	0.875
42_1_5_129	MW-32	Part 115	Zinc	mg/L	19	0	0%	< 0.0001	0.462	↔	0.00028125	0.555	↔	2025-12-07	0.296
46_1_3_105	MW-36	Appendix III	Boron	mg/L	9	0	0%	0.0013	0.547	↔	-0.00031829	0.329	↔	2024-10-06	0.288
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	9	0	0%	-0.06	0.579	↔	0.025746	0.142	↔	2024-08-03	0.459
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	-0.01016	0.188	↔	-0.061517	0.032	↔	2025-09-16	0.899
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	9	0	0%	0.00032436	0.473	↔	-0.0010128	0.185	↔	2025-08-11	0.384
46_1_3_120	MW-36	Appendix III	pH (field)	su	9	0	0%	-0.0041442	0.029	↔	0.0079088	0.637	↔	2025-10-21	0.652
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.20824	0.089	↔	-0.34146	0.322	↔	2025-09-21	0.542
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	9	0	0%	< 0.0001	0.633	↔	< 0.0001	0.299	↔	2025-02-25	0.253
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.013	↔	< 0.0001	0.828	↔	2025-03-15	0.863
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	9	0	0%	0.00017391	0.266	↔	-0.00015015	0.524	↔	2025-08-11	0.392
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	9	8	89%	< 0.0001	0.433	↔	< 0.0001	0.282	↔	2025-11-24	0.730
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	9	1	11%	< 0.0001	0.371	↔	< 0.0001	0.702	↔	2025-04-21	0.421
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	9	0	0%	< 0.0001	0.158	↔	< 0.0001	0.772	↔	2025-10-17	0.494
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.00032436	0.473	↔	-0.0010128	0.185	↔	2025-08-11	0.384
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	9	0	0%	< 0.0001	0.293	↔	< 0.0001	0.507	↔	2025-09-22	0.277
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	9	4	44%	-0.33649	0.036	↔	0.015617	0.968	↔	2025-10-17	0.774
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	9	0	0%	< 0.0001	0.037	↔	< 0.0001	0.047	↔	2025-12-30	0.849
46_1_5_114	MW-36	Part 115	Iron	mg/L	9	0	0%	0.0013276	0.175	↔	-0.0001319	0.925	↔	2025-05-27	0.484
46_1_5_119	MW-36	Part 115	Nickel	mg/L	9	0	0%	< 0.0001	0.126	↔	< 0.0001	0.400	↔	2024-10-15	0.864
46_1_5_123	MW-36	Part 115	Silver	mg/L	9	1	11%	< 0.0001	0.275	↔	< 0.0001	0.802	↔	2025-04-21	0.439
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	9	0	0%	< 0.0001	0.693	↔	< 0.0001	0.296	↔	2025-02-25	0.236
46_1_5_129	MW-36	Part 115	Zinc	mg/L	9	0	0%	< 0.0001	0.243	↔	0.00011401	0.045	↔	2025-10-19	0.690
47_1_3_105	MW-37	Appendix III	Boron	mg/L	9	0	0%	0.0014808	0.787	↔	-0.0085557	0.331	↔	2025-05-20	0.393
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.07	0.533	↔	-0.046113	0.028	↔	2024-08-28	0.709
47_1_3_120	MW-37	Appendix III	pH (field)	su	9	0	0%	-0.0032	0.101	↔	0.00054015	0.065	↔	2024-07-22	0.660
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	9	1	11%	< 0.0001	0.026	↔	< 0.0001	0.001	↑	2026-02-11	0.931

(Table continues on next page)

Table 9: Trend Tests: Piecewise Linear-Linear *(continued)*

								Line 1			Line 2				
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	R-Squared
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.038	↔	< 0.0001	0.677	↔	2025-10-21	0.618
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	9	5	56%	< 0.0001	0.007	↓	< 0.0001	0.418	↔	2025-05-23	0.857
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	9	0	0%	< 0.0001	0.876	↔	< 0.0001	0.453	↔	2024-12-21	0.162
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	9	0	0%	< 0.0001	0.290	↔	< 0.0001	0.706	↔	2025-10-21	0.612
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	9	2	22%	< 0.0001	0.156	↔	< 0.0001	0.721	↔	2025-10-21	0.388
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	9	0	0%	< 0.0001	0.142	↔	0.00041935	0.008	↑	2026-02-15	0.844
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	9	4	44%	-0.36581	0.026	↔	-0.023672	0.951	↔	2025-09-07	0.794
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	9	0	0%	< 0.0001	0.457	↔	0.0001371	0.150	↔	2026-02-05	0.516
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	0.00195	0.473	↔	-0.00022399	0.561	↔	2024-08-17	0.209
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	9	0	0%	< 0.0001	0.012	↔	0.00014565	0.001	↑	2026-02-10	0.952
47_1_5_111	MW-37	Part 115	Copper	mg/L	9	0	0%	< 0.0001	0.321	↔	-0.00010512	0.702	↔	2025-10-21	0.321
47_1_5_119	MW-37	Part 115	Nickel	mg/L	9	0	0%	< 0.0001	0.098	↔	< 0.0001	0.630	↔	2025-10-21	0.775
47_1_5_123	MW-37	Part 115	Silver	mg/L	9	8	89%	< 0.0001	0.586	↔	< 0.0001	0.178	↔	2024-10-14	0.365
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	9	5	56%	< 0.0001	0.811	↔	< 0.0001	0.114	↔	2025-03-21	0.587
47_1_5_129	MW-37	Part 115	Zinc	mg/L	9	0	0%	< 0.0001	0.120	↔	< 0.0001	0.008	↑	2025-07-04	0.857
48_2_3_105	MW-38	Appendix III	Boron	mg/L	9	0	0%	-0.00088803	0.634	↔	-0.0085341	0.688	↔	2025-10-21	0.506
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	9	0	0%	0.0030843	0.290	↔	-0.0014064	0.201	↔	2024-10-16	0.452
48_2_3_120	MW-38	Appendix III	pH (field)	su	9	0	0%	-0.0011582	0.298	↔	0.064839	0.002	↑	2026-02-13	0.915
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	9	2	22%	< 0.0001	0.591	↔	< 0.0001	0.128	↔	2024-12-17	0.480
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	9	0	0%	-0.0001588	0.105	↔	0.0084194	0.000	↑	2026-02-17	0.962
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	9	1	11%	< 0.0001	0.955	↔	< 0.0001	0.745	↔	2025-10-21	0.326
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.0030843	0.290	↔	-0.0014064	0.201	↔	2024-10-16	0.452
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	9	4	44%	-0.31447	0.092	↔	-0.071769	0.776	↔	2025-08-11	0.746
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	9	0	0%	< 0.0001	0.588	↔	< 0.0001	0.140	↔	2025-02-25	0.405
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	9	0	0%	< 0.0001	0.490	↔	< 0.0001	0.100	↔	2026-02-09	0.587
48_2_5_111	MW-38	Part 115	Copper	mg/L	9	1	11%	< 0.0001	0.344	↔	0.00042742	0.068	↔	2026-02-09	0.643
48_2_5_114	MW-38	Part 115	Iron	mg/L	9	0	0%	0.0024299	0.311	↔	-0.00979	0.708	↔	2025-10-21	0.318
48_2_5_119	MW-38	Part 115	Nickel	mg/L	9	0	0%	< 0.0001	0.093	↔	0.00038226	0.001	↑	2026-02-13	0.939
48_2_5_123	MW-38	Part 115	Silver	mg/L	9	6	67%	< 0.0001	0.442	↔	< 0.0001	0.065	↔	2026-02-17	0.615
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	9	2	22%	< 0.0001	0.256	↔	< 0.0001	0.075	↔	2025-03-04	0.628
48_2_5_129	MW-38	Part 115	Zinc	mg/L	9	1	11%	< 0.0001	0.230	↔	0.00048387	0.043	↔	2026-01-22	0.793

Table 10: Trend Tests: Piecewise Linear-Linear-Linear

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	19	0	0%	0.12287	0.557	↔	0.02581	0.580	↔	-0.84043	0.348	↔	2023-06-28	2026-01-18	0.255
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	19	0	0%	0.082439	0.676	↔	-0.21513	0.196	↔	1.8789	0.317	↔	2024-03-07	2025-12-04	0.376
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.11863	0.662	↔	-0.031968	0.598	↔	-0.80645	0.485	↔	2023-07-01	2026-01-25	0.227
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	19	0	0%	-0.0065905	0.566	↔	0.011436	0.064	↔	-0.1063	0.190	↔	2024-02-12	2026-01-10	0.380

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Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	0.0051548	0.343	↔	< 0.0001	0.994	↔	-0.00023199	0.913	↔	2023-04-07	2025-07-04	0.227
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.17545	0.604	↔	-1.6724	0.485	↔	9.5004	0.198	↔	2025-04-19	2025-12-30	0.322
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19	3	16%	< 0.0001	0.348	↔	< 0.0001	0.100	↔	< 0.0001	0.000	↑	2023-04-18	2025-10-04	0.807
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	19	0	0%	-0.00070748	0.788	↔	0.00033502	0.009	↑	-0.0041935	0.179	↔	2023-02-15	2026-01-18	0.510
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	19	2	11%	< 0.0001	0.023	↔	< 0.0001	0.130	↔	< 0.0001	0.082	↔	2025-01-02	2025-09-16	0.499
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.147	↔	< 0.0001	0.296	↔	< 0.0001	0.718	↔	2024-02-12	2025-01-29	0.347
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.466	↔	< 0.0001	0.282	↔	0.00098752	0.000	↑	2023-06-27	2026-01-27	0.998
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0065905	0.566	↔	0.011436	0.064	↔	-0.1063	0.190	↔	2024-02-12	2026-01-10	0.380
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	19	2	11%	< 0.0001	0.573	↔	< 0.0001	0.262	↔	< 0.0001	0.004	↑	2023-07-26	2025-09-25	0.707
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	19	0	0%	0.00020873	0.846	↔	0.002706	0.541	↔	-0.019355	0.314	↔	2025-02-21	2026-01-09	0.191
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	< 0.0001	0.319	↔	< 0.0001	0.136	↔	< 0.0001	0.211	↔	2024-02-13	2025-12-01	0.515
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	19	13	68%	0.0059624	0.192	↔	-0.0010957	0.571	↔	0.00025993	0.268	↔	2023-02-11	2023-10-23	0.243
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.178	↔	< 0.0001	0.796	↔	< 0.0001	0.179	↔	2023-05-22	2023-10-23	0.377
11_2_5_111	MW-01R	Part 115	Copper	mg/L	19	6	32%	< 0.0001	0.258	↔	< 0.0001	0.221	↔	< 0.0001	0.000	↑	2023-06-27	2025-10-15	0.829
11_2_5_114	MW-01R	Part 115	Iron	mg/L	19	0	0%	-0.0028762	0.658	↔	-0.00060638	0.069	↔	0.0058651	0.031	↔	2023-03-09	2025-09-11	0.587
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.196	↔	< 0.0001	0.267	↔	0.00083062	0.000	↑	2024-02-13	2026-01-29	0.932
11_2_5_123	MW-01R	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.594	↔	< 0.0001	0.091	↔	< 0.0001	0.819	↔	2023-02-07	2025-10-05	0.298
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	19	2	11%	< 0.0001	0.093	↔	< 0.0001	0.750	↔	< 0.0001	0.703	↔	2023-06-27	2025-01-10	0.463
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.36798	0.625	↔	0.041141	0.034	↔	-0.1351	0.376	↔	2023-02-07	2025-08-14	0.344
12_2_3_120	MW-02	Appendix III	pH (field)	su	19	0	0%	0.0030136	0.119	↔	-0.00026076	0.110	↔	0.0002375	0.356	↔	2023-02-17	2025-01-08	0.395
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	< 0.0001	0.138	↔	< 0.0001	0.222	↔	< 0.0001	0.370	↔	2023-04-17	2024-01-08	0.424
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.272	↔	< 0.0001	0.430	↔	< 0.0001	0.167	↔	2023-05-24	2024-02-12	0.428
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	19	0	0%	0.00012835	0.561	↔	-0.00077885	0.262	↔	0.00039269	0.124	↔	2024-02-13	2024-10-30	0.343
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	19	2	11%	< 0.0001	0.197	↔	< 0.0001	0.618	↔	< 0.0001	0.541	↔	2024-05-06	2026-01-17	0.247
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	19	13	68%	< 0.0001	0.023	↔	< 0.0001	0.606	↔	< 0.0001	0.660	↔	2023-10-24	2024-05-16	0.436
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.622	↔	0.00022556	0.321	↔	< 0.0001	0.293	↔	2024-10-09	2025-03-01	0.190
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	19	14	74%	0.026347	0.559	↔	-0.40148	0.008	↓	0.062312	0.775	↔	2024-07-26	2025-10-17	0.889
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	19	0	0%	< 0.0001	0.753	↔	< 0.0001	0.382	↔	< 0.0001	0.334	↔	2024-05-14	2025-02-25	0.355
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.471	↔	< 0.0001	0.797	↔	< 0.0001	0.300	↔	2023-02-08	2025-02-09	0.192
12_2_5_123	MW-02	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.327	↔	< 0.0001	0.365	↔	< 0.0001	0.670	↔	2023-05-12	2024-01-28	0.399
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	19	1	5%	< 0.0001	0.490	↔	< 0.0001	0.565	↔	< 0.0001	0.525	↔	2023-06-26	2025-04-29	0.236
12_2_5_129	MW-02	Part 115	Zinc	mg/L	19	0	0%	-0.00022496	0.629	↔	< 0.0001	0.473	↔	0.00016772	0.534	↔	2023-02-01	2025-10-22	0.481
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-1.4649	0.184	↔	-0.15702	0.084	↔	-0.03917	0.316	↔	2023-01-30	2024-03-30	0.824
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	3.7216	0.019	↔	-0.88734	0.001	↓	-0.045687	0.880	↔	2023-04-17	2024-11-25	0.822
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2.2318	0.091	↔	-1.3192	0.015	↔	-0.38912	0.108	↔	2023-05-11	2024-05-17	0.828
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	19	13	68%	< 0.0001	0.111	↔	< 0.0001	0.120	↔	< 0.0001	0.945	↔	2023-05-10	2024-09-02	0.467
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.275	↔	< 0.0001	0.242	↔	< 0.0001	0.174	↔	2023-05-22	2023-11-17	0.290
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	19	0	0%	0.00023702	0.413	↔	-0.0011321	0.624	↔	0.00013773	0.344	↔	2024-02-01	2024-06-11	0.179
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	19	12	63%	< 0.0001	0.660	↔	< 0.0001	0.840	↔	< 0.0001	0.501	↔	2024-04-07	2025-02-22	0.095
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.319	↔	< 0.0001	0.191	↔	< 0.0001	0.880	↔	2023-05-22	2025-09-22	0.244
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.312	↔	< 0.0001	0.263	↔	< 0.0001	0.531	↔	2023-10-23	2025-01-09	0.249
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	19	18	95%	< 0.0001	0.080	↔	< 0.0001	0.003	↓	< 0.0001	0.707	↔	2023-02-07	2026-01-23	0.619

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.248	↔	< 0.0001	0.403	↔	< 0.0001	0.617	↔	2023-04-18	2024-03-16	0.620
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	19	14	74%	0.0077444	0.784	↔	-2.9487	0.000	↓	0.0010299	0.993	↔	2025-02-22	2025-04-21	0.945
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	19	13	68%	< 0.0001	0.556	↔	< 0.0001	0.222	↔	< 0.0001	0.476	↔	2023-02-06	2024-01-08	0.320
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	18	3	17%	-0.016216	0.194	↔	-0.00074905	0.135	↔	0.001361	0.172	↔	2023-01-09	2025-02-20	0.528
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19	3	16%	< 0.0001	0.584	↔	< 0.0001	0.408	↔	< 0.0001	0.457	↔	2024-07-22	2023-05-05	0.112
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.557	↔	< 0.0001	0.160	↔	< 0.0001	0.814	↔	2024-10-04	2025-05-11	0.476
13_2_5_111	MW-03	Part 115	Copper	mg/L	19	9	47%	< 0.0001	0.165	↔	< 0.0001	0.713	↔	< 0.0001	0.527	↔	2024-10-15	2025-05-09	0.249
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	-0.022232	0.001	↓	-0.00011356	0.895	↔	0.0032763	0.863	↔	2023-06-03	2025-10-22	0.790
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	< 0.0001	0.164	↔	< 0.0001	0.954	↔	< 0.0001	0.946	↔	2023-04-23	2026-02-08	0.316
13_2_5_123	MW-03	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.438	↔	< 0.0001	0.290	↔	< 0.0001	0.860	↔	2023-04-25	2025-02-11	0.257
14_2_3_105	MW-04	Appendix III	Boron	mg/L	19	0	0%	0.0011207	0.143	↔	-0.0026924	0.434	↔	-0.0098103	0.001	↓	2024-08-04	2025-08-10	0.847
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	19	0	0%	0.0014315	0.338	↔	0.00018259	0.700	↔	0.0012129	0.879	↔	2023-09-07	2025-10-25	0.354
14_2_3_120	MW-04	Appendix III	pH (field)	su	19	0	0%	-0.00012136	0.264	↔	-0.0063889	0.012	↔	0.005	0.081	↔	2025-08-04	2025-11-19	0.712
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2.7549	0.136	↔	0.12251	0.528	↔	-1.7286	0.711	↔	2023-04-25	2025-11-07	0.437
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	0.14268	0.884	↔	-0.11585	0.814	↔	-3.5615	0.610	↔	2023-11-10	2025-10-23	0.364
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	19	13	68%	< 0.0001	0.049	↔	< 0.0001	0.629	↔	< 0.0001	0.910	↔	2023-06-03	2023-09-09	0.325
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.605	↔	< 0.0001	0.051	↔	< 0.0001	0.339	↔	2023-03-19	2026-02-15	0.352
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	-0.0010211	0.374	↔	-0.00017934	0.869	↔	< 0.0001	0.964	↔	2023-03-14	2023-09-27	0.239
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	19	16	84%	< 0.0001	0.119	↔	< 0.0001	0.535	↔	< 0.0001	0.000	↑	2024-07-18	2025-10-20	0.949
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	19	19	100%	< 0.0001	0.337	↔	< 0.0001	0.605	↔	< 0.0001	0.614	↔	2023-05-22	2024-04-16	0.214
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.612	↔	< 0.0001	0.977	↔	< 0.0001	0.146	↔	2024-02-21	2025-01-07	0.288
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.0014315	0.338	↔	0.00018259	0.700	↔	0.0012129	0.879	↔	2023-09-07	2025-10-25	0.354
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	19	15	79%	< 0.0001	0.227	↔	< 0.0001	0.134	↔	< 0.0001	0.796	↔	2023-04-15	2023-08-07	0.366
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.571	↔	< 0.0001	0.154	↔	-0.00011305	0.697	↔	2023-08-06	2025-12-03	0.429
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	-0.0011373	0.002	↓	0.0031585	0.111	↔	-0.0037429	0.047	↔	2025-02-05	2025-10-19	0.687
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.448	↔	< 0.0001	0.932	↔	< 0.0001	0.422	↔	2023-05-02	2024-07-18	0.197
14_2_5_111	MW-04	Part 115	Copper	mg/L	19	13	68%	< 0.0001	0.857	↔	< 0.0001	0.143	↔	< 0.0001	0.122	↔	2024-11-22	2026-01-23	0.578
14_2_5_119	MW-04	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.443	↔	< 0.0001	0.251	↔	< 0.0001	0.864	↔	2023-03-13	2025-10-22	0.286
14_2_5_123	MW-04	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.431	↔	< 0.0001	0.290	↔	< 0.0001	0.860	↔	2023-04-25	2025-02-10	0.258
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	19	10	53%	< 0.0001	1.000	↔	< 0.0001	0.007	↑	< 0.0001	0.000	↓	2024-01-17	2024-08-07	0.827
14_2_5_129	MW-04	Part 115	Zinc	mg/L	19	10	53%	< 0.0001	0.453	↔	< 0.0001	0.691	↔	< 0.0001	0.004	↑	2023-08-07	2025-08-11	0.844
16_1_3_105	MW-06	Appendix III	Boron	mg/L	19	0	0%	-0.0056103	0.092	↔	0.0061183	0.152	↔	-0.014201	0.690	↔	2024-04-07	2025-11-05	0.322
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	19	0	0%	0.09576	0.077	↔	-0.36007	0.386	↔	-0.0023922	0.973	↔	2024-04-07	2024-11-12	0.614
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.22883	0.000	↓	0.087131	0.050	↔	-0.26094	0.571	↔	2024-03-10	2025-10-23	0.787
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	19	0	0%	-0.0035989	0.348	↔	0.00093934	0.688	↔	0.00023143	0.182	↔	2023-03-11	2023-08-07	0.351
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	-0.0039528	0.664	↔	0.00040601	0.102	↔	-0.00011374	0.921	↔	2023-02-05	2025-07-03	0.313
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.37491	0.136	↔	0.11718	0.534	↔	-0.34416	0.361	↔	2023-12-13	2025-07-07	0.379
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	19	16	84%	< 0.0001	0.244	↔	< 0.0001	0.205	↔	< 0.0001	0.487	↔	2023-04-18	2025-07-12	0.235
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.343	↔	< 0.0001	0.537	↔	< 0.0001	0.280	↔	2023-05-08	2023-07-20	0.222
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	19	0	0%	-0.0023352	0.214	↔	0.00061077	0.078	↔	-0.00027908	0.350	↔	2023-04-17	2024-07-18	0.368
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	19	16	84%	< 0.0001	0.000	↓	< 0.0001	0.504	↔	< 0.0001	0.000	↑	2023-01-18	2026-02-15	1.000
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	19	19	100%	< 0.0001	0.318	↔	< 0.0001	0.751	↔	< 0.0001	0.477	↔	2023-05-22	2023-11-27	0.217

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.352	↔	< 0.0001	0.087	↔	< 0.0001	0.997	↔	2023-02-12	2024-02-13	0.511
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0035989	0.348	↔	0.00093934	0.688	↔	0.00023143	0.182	↔	2023-03-11	2023-08-07	0.351
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	19	10	53%	< 0.0001	0.273	↔	< 0.0001	0.182	↔	< 0.0001	0.694	↔	2023-04-17	2023-07-29	0.516
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	19	0	0%	-0.00018698	0.006	↓	< 0.0001	0.339	↔	-0.00018127	0.431	↔	2024-04-07	2025-10-01	0.558
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	19	4	21%	-0.0002914	0.562	↔	0.0022702	0.276	↔	-0.0024911	0.769	↔	2025-02-22	2025-10-24	0.133
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	19	5	26%	< 0.0001	0.326	↔	< 0.0001	0.138	↔	< 0.0001	0.341	↔	2024-02-12	2025-12-11	0.374
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.543	↔	< 0.0001	0.206	↔	< 0.0001	0.743	↔	2023-02-05	2024-10-13	0.288
16_1_5_114	MW-06	Part 115	Iron	mg/L	19	0	0%	0.02113	0.059	↔	-0.073255	0.034	↔	0.0047253	0.685	↔	2024-04-01	2024-12-09	0.726
16_1_5_123	MW-06	Part 115	Silver	mg/L	19	18	95%	< 0.0001	0.288	↔	< 0.0001	0.090	↔	< 0.0001	0.448	↔	2023-02-06	2025-09-17	0.288
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.010682	0.009	↓	0.0046356	0.000	↑	-0.032787	0.015	↔	2023-06-21	2026-02-07	0.896
17_1_3_120	MW-07	Appendix III	pH (field)	su	19	0	0%	-0.002218	0.353	↔	0.0005955	0.153	↔	-0.00016034	0.317	↔	2023-03-12	2024-02-24	0.307
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.17082	0.894	↔	0.28221	0.212	↔	0.024051	0.780	↔	2023-02-13	2024-03-31	0.505
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.394	↔	< 0.0001	0.173	↔	< 0.0001	0.005	↓	2023-04-06	2024-03-17	0.566
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	19	0	0%	-0.0003888	0.762	↔	< 0.0001	0.002	↑	-0.001246	0.108	↔	2023-01-06	2026-02-11	0.621
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	19	14	74%	< 0.0001	0.756	↔	< 0.0001	0.997	↔	< 0.0001	0.001	↑	2025-02-25	2025-09-15	0.831
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	19	19	100%	< 0.0001	0.000	↑	< 0.0001	1.000	↔	< 0.0001	1.000	↔	2023-07-30	2024-03-22	0.856
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.525	↔	< 0.0001	0.301	↔	< 0.0001	0.012	↔	2023-10-09	2024-07-16	0.452
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.036	↔	< 0.0001	0.095	↔	< 0.0001	0.008	↑	2023-07-09	2024-02-13	0.600
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.423	↔	< 0.0001	0.393	↔	< 0.0001	0.042	↔	2023-06-26	2024-01-21	0.359
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	0.0006599	0.777	↔	-0.0010672	0.373	↔	0.0007401	0.526	↔	2023-08-04	2024-11-20	0.137
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	19	9	47%	< 0.0001	0.012	↔	< 0.0001	0.702	↔	< 0.0001	0.504	↔	2023-06-27	2024-06-03	0.571
17_1_5_111	MW-07	Part 115	Copper	mg/L	19	14	74%	< 0.0001	0.936	↔	< 0.0001	0.472	↔	< 0.0001	0.132	↔	2024-01-14	2025-02-25	0.269
17_1_5_114	MW-07	Part 115	Iron	mg/L	19	0	0%	0.0054358	0.007	↑	-0.042857	0.270	↔	0.032787	0.456	↔	2025-07-30	2025-11-03	0.606
17_1_5_119	MW-07	Part 115	Nickel	mg/L	19	14	74%	< 0.0001	0.923	↔	< 0.0001	0.726	↔	< 0.0001	0.000	↓	2024-05-24	2024-11-10	0.876
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	19	12	63%	< 0.0001	0.725	↔	< 0.0001	0.111	↔	< 0.0001	0.014	↔	2024-01-27	2024-09-23	0.615
17_1_5_129	MW-07	Part 115	Zinc	mg/L	19	10	53%	< 0.0001	0.520	↔	< 0.0001	0.426	↔	0.00012859	0.561	↔	2023-07-27	2025-10-22	0.485
18_1_3_105	MW-08	Appendix III	Boron	mg/L	19	0	0%	0.078844	0.233	↔	-0.0032601	0.191	↔	0.0025181	0.561	↔	2023-02-06	2025-02-25	0.470
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	19	0	0%	-0.089713	0.021	↔	0.047459	0.039	↔	-0.25358	0.007	↓	2024-01-19	2025-08-18	0.806
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.0033499	0.947	↔	0.11044	0.044	↔	-0.33294	0.054	↔	2024-03-02	2025-09-17	0.580
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	19	0	0%	0.00057804	0.272	↔	-0.0018889	0.647	↔	0.0013398	0.076	↔	2024-06-28	2025-02-09	0.309
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	0.0055966	0.336	↔	-0.00014386	0.588	↔	0.0012974	0.542	↔	2023-03-13	2025-10-09	0.314
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	19	5	26%	-0.025831	0.372	↔	0.2052	0.040	↔	-0.10793	0.045	↔	2024-06-28	2025-03-14	0.581
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.10419	0.594	↔	0.35065	0.088	↔	-1.5672	0.022	↔	2024-03-14	2025-08-31	0.575
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	19	11	58%	< 0.0001	0.351	↔	< 0.0001	0.160	↔	< 0.0001	0.796	↔	2023-02-06	2023-11-08	0.371
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	19	0	0%	0.00052621	0.068	↔	< 0.0001	0.488	↔	< 0.0001	0.022	↔	2023-02-07	2024-12-21	0.661
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	19	0	0%	-0.00040619	0.022	↔	0.0029089	0.415	↔	-0.014205	0.003	↓	2025-04-20	2026-01-25	0.673
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	19	18	95%	< 0.0001	0.158	↔	< 0.0001	0.416	↔	< 0.0001	0.417	↔	2025-07-15	2025-11-10	0.349
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.004	↑	< 0.0001	0.268	↔	< 0.0001	0.376	↔	2023-07-08	2025-02-26	0.795
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.316	↔	< 0.0001	0.000	↓	< 0.0001	0.380	↔	2023-01-27	2026-02-17	0.724
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.272	↔	< 0.0001	0.313	↔	< 0.0001	0.135	↔	2024-04-12	2025-09-20	0.324
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.00057804	0.272	↔	-0.0018889	0.647	↔	0.0013398	0.076	↔	2024-06-28	2025-02-09	0.309
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	19	12	63%	< 0.0001	0.501	↔	< 0.0001	0.322	↔	< 0.0001	0.140	↔	2023-10-19	2024-10-15	0.260

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	19	0	0%	0.0013429	0.038	↔	< 0.0001	0.001	↓	< 0.0001	0.879	↔	2023-01-19	2025-03-15	0.755
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	19	1	5%	< 0.0001	0.315	↔	< 0.0001	0.566	↔	< 0.0001	0.162	↔	2023-06-19	2025-10-21	0.409
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19	5	26%	-0.005559	0.716	↔	-0.00065476	0.263	↔	0.00037079	0.717	↔	2023-02-06	2025-01-12	0.328
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	< 0.0001	0.203	↔	< 0.0001	0.508	↔	< 0.0001	0.119	↔	2023-06-29	2024-02-13	0.343
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.705	↔	< 0.0001	0.134	↔	< 0.0001	0.132	↔	2024-01-18	2025-02-26	0.345
18_1_5_111	MW-08	Part 115	Copper	mg/L	19	6	32%	< 0.0001	0.740	↔	< 0.0001	0.140	↔	< 0.0001	0.189	↔	2024-01-01	2024-10-16	0.397
18_1_5_114	MW-08	Part 115	Iron	mg/L	19	0	0%	-0.080199	0.000	↓	0.11688	0.066	↔	-0.016606	0.001	↓	2023-07-26	2023-10-30	0.844
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.013	↔	< 0.0001	0.526	↔	< 0.0001	0.592	↔	2024-10-16	2026-02-07	0.448
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	19	16	84%	< 0.0001	0.852	↔	< 0.0001	0.622	↔	< 0.0001	0.000	↓	2024-01-21	2025-02-25	0.768
18_1_5_129	MW-08	Part 115	Zinc	mg/L	19	3	16%	-0.00016047	0.505	↔	0.0001568	0.581	↔	< 0.0001	0.948	↔	2023-09-25	2024-10-15	0.149
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	-0.00053747	0.330	↔	0.010294	0.403	↔	-0.040625	0.007	↓	2025-07-31	2025-12-29	0.739
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	19	0	0%	1.2065	0.034	↔	-1.0125	0.666	↔	0.17545	0.005	↑	2023-05-12	2023-07-29	0.725
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	19	0	0%	0.0024301	0.240	↔	-0.00035686	0.420	↔	-0.0020826	0.180	↔	2023-06-19	2025-08-12	0.444
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	4.2007	0.022	↔	-1.6719	0.619	↔	0.76811	0.001	↑	2023-04-23	2023-10-03	0.769
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	4.7268	0.101	↔	0.49613	0.022	↔	4.6875	0.331	↔	2023-04-08	2026-01-09	0.815
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	19	12	63%	< 0.0001	0.205	↔	< 0.0001	0.175	↔	< 0.0001	0.577	↔	2023-04-18	2025-06-17	0.256
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	-0.0078852	0.072	↔	0.00060276	0.880	↔	-0.00026152	0.632	↔	2023-04-27	2023-11-13	0.460
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	19	14	74%	< 0.0001	0.148	↔	< 0.0001	0.470	↔	< 0.0001	0.410	↔	2025-02-24	2025-08-31	0.327
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.486	↔	< 0.0001	0.506	↔	< 0.0001	0.259	↔	2023-05-22	2025-07-12	0.246
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.383	↔	< 0.0001	0.642	↔	< 0.0001	0.202	↔	2024-01-14	2025-06-28	0.371
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.437	↔	< 0.0001	0.048	↔	< 0.0001	0.000	↑	2023-03-01	2026-02-13	0.984
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.0024301	0.240	↔	-0.00035686	0.420	↔	-0.0020826	0.180	↔	2023-06-19	2025-08-12	0.444
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	19	17	89%	< 0.0001	0.462	↔	< 0.0001	0.309	↔	< 0.0001	0.728	↔	2023-02-06	2025-07-29	0.150
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	< 0.0001	0.418	↔	< 0.0001	0.399	↔	0.0029595	0.000	↑	2024-02-12	2026-02-04	0.858
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	19	14	74%	4.501	0.049	↔	-3.2364	0.344	↔	-0.23407	0.892	↔	2023-11-11	2024-11-22	0.389
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	< 0.0001	0.973	↔	< 0.0001	0.730	↔	< 0.0001	0.176	↔	2023-07-14	2025-08-13	0.506
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.405	↔	< 0.0001	0.502	↔	< 0.0001	0.970	↔	2023-04-16	2023-08-08	0.128
19_2_5_111	MW-09	Part 115	Copper	mg/L	19	11	58%	< 0.0001	0.357	↔	< 0.0001	0.738	↔	< 0.0001	0.004	↑	2024-07-17	2025-08-04	0.658
19_2_5_114	MW-09	Part 115	Iron	mg/L	19	0	0%	-0.0025256	0.662	↔	0.02997	0.648	↔	-0.061006	0.149	↔	2025-02-26	2025-09-08	0.270
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.827	↔	0.0001027	0.387	↔	< 0.0001	0.357	↔	2024-01-11	2025-02-24	0.352
19_2_5_123	MW-09	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.031	↔	< 0.0001	0.397	↔	< 0.0001	0.471	↔	2023-05-02	2023-06-27	0.417
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	19	15	79%	< 0.0001	0.941	↔	< 0.0001	0.681	↔	< 0.0001	0.002	↓	2024-01-07	2025-10-19	0.772
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	< 0.0001	0.669	↔	< 0.0001	0.751	↔	0.00020757	0.127	↔	2023-09-04	2025-08-12	0.381
20_3_3_105	MW-10	Appendix III	Boron	mg/L	19	0	0%	-0.0081175	0.590	↔	0.029271	0.152	↔	-0.076923	0.646	↔	2024-04-08	2025-12-12	0.371
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	19	0	0%	-0.39953	0.279	↔	1.5808	0.036	↔	-0.36495	0.018	↔	2023-10-07	2024-04-07	0.574
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	19	0	0%	-0.0038554	0.228	↔	0.0055855	0.448	↔	-0.0019819	0.806	↔	2024-05-04	2025-05-04	0.158
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	0.0048868	0.123	↔	-0.0089009	0.162	↔	< 0.0001	0.784	↔	2023-05-22	2023-08-16	0.400
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	1.1745	0.117	↔	-3.4066	0.551	↔	-0.44739	0.651	↔	2024-06-27	2025-01-01	0.381
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	1.5059	0.045	↔	-1.1081	0.469	↔	-2.9854	0.754	↔	2024-07-17	2025-11-23	0.389
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	19	15	79%	< 0.0001	0.308	↔	< 0.0001	0.422	↔	< 0.0001	0.844	↔	2023-04-22	2024-08-11	0.221
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.050	↔	< 0.0001	0.819	↔	< 0.0001	0.644	↔	2024-10-16	2025-10-20	0.475
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	19	0	0%	-0.0025721	0.628	↔	< 0.0001	0.848	↔	0.00078311	0.047	↔	2023-01-27	2025-02-03	0.517

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Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	19	9	47%	< 0.0001	0.433	↔	< 0.0001	0.376	↔	< 0.0001	0.728	↔	2023-05-22	2025-10-12	0.145
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	19	19	100%	< 0.0001	0.318	↔	< 0.0001	0.749	↔	< 0.0001	0.479	↔	2023-05-22	2023-11-25	0.217
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	< 0.0001	0.043	↔	< 0.0001	0.117	↔	< 0.0001	0.316	↔	2023-05-23	2024-03-15	0.503
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0038554	0.228	↔	0.0055855	0.448	↔	-0.0019819	0.806	↔	2024-05-04	2025-05-04	0.158
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	19	17	89%	< 0.0001	0.001	↑	< 0.0001	0.226	↔	< 0.0001	0.455	↔	2023-03-17	2023-06-22	0.776
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	0.003408	0.524	↔	-0.00052407	0.453	↔	0.00016937	0.694	↔	2023-02-25	2024-06-03	0.117
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	< 0.0001	0.166	↔	< 0.0001	0.203	↔	< 0.0001	0.474	↔	2024-02-12	2025-01-31	0.388
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	19	19	100%	< 0.0001	0.475	↔	< 0.0001	0.766	↔	< 0.0001	0.815	↔	2024-10-16	2025-05-25	0.293
20_3_5_111	MW-10	Part 115	Copper	mg/L	19	16	84%	< 0.0001	0.721	↔	< 0.0001	0.257	↔	< 0.0001	0.846	↔	2023-05-22	2026-01-13	0.128
20_3_5_114	MW-10	Part 115	Iron	mg/L	19	0	0%	0.0023642	0.229	↔	-0.0161	0.248	↔	0.023076	0.554	↔	2025-03-30	2025-12-14	0.232
20_3_5_119	MW-10	Part 115	Nickel	mg/L	19	7	37%	< 0.0001	0.213	↔	< 0.0001	0.281	↔	< 0.0001	0.128	↔	2023-05-23	2024-06-25	0.304
20_3_5_123	MW-10	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.137	↔	< 0.0001	0.566	↔	< 0.0001	0.402	↔	2023-02-06	2023-07-18	0.337
21_2_3_105	MW-11	Appendix III	Boron	mg/L	19	0	0%	-0.062149	0.354	↔	0.0025381	0.499	↔	0.021609	0.215	↔	2023-03-13	2025-05-12	0.523
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	19	0	0%	1.0785	0.421	↔	-0.084714	0.199	↔	-0.40919	0.430	↔	2023-03-13	2025-08-14	0.455
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.056005	0.120	↔	0.049446	0.391	↔	-0.11828	0.388	↔	2024-04-07	2025-09-23	0.260
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	19	0	0%	-0.0063039	0.345	↔	0.00035003	0.280	↔	0.004009	0.131	↔	2023-03-10	2025-08-29	0.611
21_2_3_120	MW-11	Appendix III	pH (field)	su	19	0	0%	0.0016351	0.340	↔	-0.00026244	0.015	↔	0.00089411	0.055	↔	2023-02-08	2025-07-10	0.514
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	19	7	37%	1.5479	0.000	↑	-2.5784	0.000	↓	0.0074626	0.715	↔	2023-04-17	2023-07-03	0.907
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	19	14	74%	< 0.0001	0.965	↔	< 0.0001	0.809	↔	< 0.0001	0.892	↔	2023-05-23	2024-01-05	0.106
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.229	↔	< 0.0001	0.601	↔	< 0.0001	0.033	↔	2023-03-30	2025-02-25	0.666
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	19	0	0%	-0.002957	0.229	↔	0.00016558	0.337	↔	0.0046875	0.269	↔	2023-04-13	2025-11-23	0.666
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	19	13	68%	< 0.0001	0.146	↔	< 0.0001	0.259	↔	< 0.0001	0.484	↔	2024-04-06	2025-04-02	0.277
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	19	16	84%	< 0.0001	0.362	↔	< 0.0001	0.591	↔	< 0.0001	0.598	↔	2024-06-25	2025-10-22	0.124
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.389	↔	< 0.0001	0.993	↔	< 0.0001	0.708	↔	2023-04-17	2024-06-05	0.214
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.878	↔	< 0.0001	0.501	↔	< 0.0001	0.751	↔	2024-06-25	2025-12-11	0.077
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0063039	0.345	↔	0.00035003	0.280	↔	0.004009	0.131	↔	2023-03-10	2025-08-29	0.611
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19	3	16%	-0.00023989	0.291	↔	< 0.0001	0.350	↔	< 0.0001	0.876	↔	2023-04-12	2025-10-23	0.245
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	19	0	0%	-0.0010586	0.315	↔	< 0.0001	0.690	↔	0.0003814	0.166	↔	2023-03-13	2025-08-08	0.448
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	19	13	68%	0.86182	0.118	↔	-1.2754	0.083	↔	0.080525	0.942	↔	2024-04-06	2025-05-01	0.422
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	19	2	11%	< 0.0001	0.238	↔	< 0.0001	0.680	↔	< 0.0001	0.024	↔	2023-03-19	2025-04-10	0.633
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	18	7	39%	0.00077791	0.866	↔	-0.0013501	0.120	↔	0.0007681	0.325	↔	2023-04-17	2024-08-16	0.322
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	< 0.0001	0.207	↔	< 0.0001	0.121	↔	< 0.0001	0.286	↔	2024-02-12	2025-03-12	0.326
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.534	↔	< 0.0001	0.111	↔	< 0.0001	0.783	↔	2023-02-07	2024-12-31	0.357
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	< 0.0001	0.360	↔	< 0.0001	0.989	↔	< 0.0001	0.661	↔	2023-04-10	2025-02-24	0.221
21_2_5_114	MW-11	Part 115	Iron	mg/L	19	0	0%	-0.051747	0.249	↔	0.0042106	0.037	↔	0.055418	0.265	↔	2023-02-22	2025-10-24	0.793
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	19	13	68%	< 0.0001	0.143	↔	< 0.0001	0.291	↔	< 0.0001	0.827	↔	2024-04-06	2025-03-14	0.270
21_2_5_129	MW-11	Part 115	Zinc	mg/L	19	4	21%	-0.0002972	0.074	↔	< 0.0001	0.323	↔	0.00017383	0.152	↔	2023-06-07	2025-05-15	0.623
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.010604	0.289	↔	0.017679	0.821	↔	-0.021991	0.123	↔	2024-04-12	2025-02-25	0.263
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	19	0	0%	-0.001515	0.016	↔	0.00058374	0.548	↔	-0.00015504	0.129	↔	2023-05-28	2024-02-12	0.512
22_2_3_120	MW-12	Appendix III	pH (field)	su	19	0	0%	0.0044987	0.498	↔	-0.00041681	0.152	↔	0.0027334	0.722	↔	2023-03-12	2025-10-26	0.237
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.17409	0.001	↓	0.083597	0.812	↔	-0.10868	0.093	↔	2024-06-16	2025-02-25	0.812
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.20723	0.494	↔	0.23278	0.140	↔	-1.8584	0.383	↔	2024-02-12	2025-12-14	0.300

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	19	0	0%	< 0.0001	0.540	↔	< 0.0001	0.792	↔	< 0.0001	0.261	↔	2024-01-21	2025-10-21	0.254
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	19	18	95%	< 0.0001	0.822	↔	< 0.0001	0.286	↔	< 0.0001	0.000	↑	2023-03-13	2026-01-23	1.000
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	19	6	32%	< 0.0001	0.396	↔	< 0.0001	0.559	↔	< 0.0001	0.833	↔	2024-04-07	2024-11-13	0.100
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	< 0.0001	1.000	↔	< 0.0001	0.233	↔	< 0.0001	0.014	↔	2024-11-17	2025-10-17	0.597
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.001515	0.016	↔	0.00058374	0.548	↔	-0.00015504	0.129	↔	2023-05-28	2024-02-12	0.512
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	19	6	32%	< 0.0001	0.873	↔	< 0.0001	0.269	↔	< 0.0001	0.301	↔	2023-05-11	2025-10-21	0.422
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	19	12	63%	0.044973	0.360	↔	-0.69025	0.008	↓	0.012985	0.934	↔	2024-10-08	2025-07-04	0.886
22_2_5_111	MW-12	Part 115	Copper	mg/L	19	0	0%	< 0.0001	0.594	↔	< 0.0001	0.164	↔	< 0.0001	0.610	↔	2023-05-04	2025-10-22	0.613
22_2_5_114	MW-12	Part 115	Iron	mg/L	19	6	32%	< 0.0001	0.578	↔	0.0041199	0.003	↑	-0.0045868	0.000	↓	2025-04-15	2025-10-21	0.874
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	19	6	32%	< 0.0001	0.282	↔	< 0.0001	0.961	↔	< 0.0001	0.433	↔	2024-05-06	2025-01-05	0.195
22_2_5_129	MW-12	Part 115	Zinc	mg/L	19	0	0%	< 0.0001	0.313	↔	< 0.0001	0.313	↔	-0.00011375	0.198	↔	2025-04-21	2025-12-18	0.742
26_1_3_120	MW-16	Appendix III	pH (field)	su	9	0	0%	0.00079782	0.679	↔	-0.0018887	0.594	↔	0.0025135	0.805	↔	2025-03-21	2025-10-28	0.228
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	0.65721	0.264	↔	-0.71753	0.132	↔	0.40822	0.798	↔	2025-02-12	2025-10-22	0.704
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	9	8	89%	< 0.0001	0.409	↔	< 0.0001	0.264	↔	< 0.0001	0.665	↔	2024-10-16	2025-07-07	0.650
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.758	↔	< 0.0001	0.732	↔	< 0.0001	0.846	↔	2025-05-14	2025-11-12	0.297
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	9	8	89%	< 0.0001	0.765	↔	< 0.0001	0.477	↔	< 0.0001	0.000	↑	2024-07-23	2026-02-16	1.000
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	9	0	0%	< 0.0001	0.770	↔	< 0.0001	0.500	↔	< 0.0001	0.471	↔	2025-04-21	2025-10-21	0.743
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	9	0	0%	< 0.0001	0.488	↔	< 0.0001	0.158	↔	< 0.0001	0.032	↔	2025-02-18	2026-01-27	0.903
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	9	6	67%	< 0.0001	0.859	↔	< 0.0001	0.356	↔	< 0.0001	0.388	↔	2025-08-08	2025-11-23	0.576
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	9	8	89%	< 0.0001	0.820	↔	< 0.0001	0.045	↔	< 0.0001	0.034	↔	2026-01-22	2024-08-13	0.932
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	9	1	11%	< 0.0001	0.904	↔	< 0.0001	0.068	↔	< 0.0001	0.174	↔	2025-07-28	2025-11-13	0.890
26_1_5_114	MW-16	Part 115	Iron	mg/L	9	0	0%	0.024656	0.521	↔	-0.031463	0.808	↔	0.031108	0.274	↔	2024-10-25	2025-07-09	0.470
26_1_5_129	MW-16	Part 115	Zinc	mg/L	9	2	22%	< 0.0001	0.433	↔	-0.00026909	0.297	↔	< 0.0001	0.122	↔	2025-02-21	2025-05-06	0.786
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	9	0	0%	-0.15777	0.306	↔	0.11773	0.425	↔	-0.20199	0.226	↔	2024-12-22	2025-09-18	0.694
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.0021538	0.988	↔	-0.021406	0.656	↔	-0.074677	0.382	↔	2024-10-12	2025-08-12	0.722
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	9	0	0%	< 0.0001	0.847	↔	0.0014085	0.604	↔	-0.0032258	0.331	↔	2025-05-04	2026-01-10	0.627
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.461	↔	< 0.0001	0.621	↔	< 0.0001	0.802	↔	2025-03-12	2025-11-01	0.350
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	9	8	89%	< 0.0001	0.560	↔	< 0.0001	0.404	↔	< 0.0001	0.080	↔	2025-07-04	2026-02-17	0.823
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	< 0.0001	0.847	↔	0.0014085	0.604	↔	-0.0032258	0.331	↔	2025-05-04	2026-01-10	0.627
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	9	1	11%	< 0.0001	0.198	↔	< 0.0001	0.261	↔	< 0.0001	0.242	↔	2025-02-03	2025-12-01	0.815
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	9	0	0%	< 0.0001	0.594	↔	< 0.0001	0.508	↔	< 0.0001	0.127	↔	2025-06-11	2026-02-16	0.765
27_1_5_114	MW-17	Part 115	Iron	mg/L	9	0	0%	-0.031	0.162	↔	0.0051875	0.604	↔	-0.0049636	0.470	↔	2024-07-23	2025-05-26	0.658
27_1_5_119	MW-17	Part 115	Nickel	mg/L	9	0	0%	< 0.0001	0.558	↔	-0.0001226	0.215	↔	< 0.0001	0.280	↔	2026-01-26	2025-07-02	0.605
27_1_5_129	MW-17	Part 115	Zinc	mg/L	9	0	0%	0.00012619	0.490	↔	-0.00020325	0.296	↔	0.00030103	0.170	↔	2025-01-30	2025-08-28	0.739
28_1_3_105	MW-18	Appendix III	Boron	mg/L	19	0	0%	0.003827	0.000	↑	0.00090897	0.266	↔	-0.025806	0.003	↓	2024-05-08	2026-01-01	0.926
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	19	0	0%	-0.90788	0.003	↓	1.4286	0.117	↔	-0.16236	0.012	↔	2023-07-22	2023-11-11	0.679
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.085419	0.341	↔	0.0071774	0.159	↔	-0.047891	0.045	↔	2023-03-07	2025-07-29	0.466
28_1_3_120	MW-18	Appendix III	pH (field)	su	19	0	0%	0.001139	0.145	↔	0.00010947	0.051	↔	-0.0016129	0.231	↔	2023-04-01	2025-12-27	0.657
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-8.8386	0.024	↔	0.27037	0.356	↔	-1.2257	0.020	↔	2023-02-08	2025-02-25	0.640
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-5.5766	0.005	↓	0.14707	0.538	↔	-1.6016	0.000	↓	2023-03-13	2025-02-25	0.846
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	< 0.0001	0.803	↔	< 0.0001	0.675	↔	< 0.0001	0.059	↔	2023-02-07	2025-06-04	0.550
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.043	↔	< 0.0001	0.771	↔	-0.00017323	0.285	↔	2024-10-16	2025-12-22	0.539

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	< 0.0001	0.737	↔	< 0.0001	0.177	↔	0.00098387	0.000	↑	2023-01-17	2026-02-16	0.900
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	19	7	37%	< 0.0001	0.313	↔	< 0.0001	0.995	↔	< 0.0001	0.009	↑	2024-10-16	2025-05-13	0.744
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.000	↓	< 0.0001	0.352	↔	< 0.0001	0.367	↔	2023-04-18	2025-03-20	0.917
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	19	12	63%	< 0.0001	0.653	↔	< 0.0001	0.731	↔	< 0.0001	0.994	↔	2023-10-23	2024-10-25	0.198
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	19	0	0%	-0.00020397	0.044	↔	0.00012797	0.382	↔	< 0.0001	0.998	↔	2023-03-19	2023-06-27	0.344
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.327	↔	< 0.0001	0.919	↔	< 0.0001	0.524	↔	2023-08-07	2024-11-03	0.339
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	0.0032348	0.136	↔	-0.0010136	0.131	↔	0.00015497	0.483	↔	2023-04-17	2024-04-03	0.450
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.705	↔	< 0.0001	0.293	↔	< 0.0001	0.974	↔	2023-02-07	2026-01-22	0.139
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	< 0.0001	0.567	↔	< 0.0001	0.700	↔	< 0.0001	0.031	↔	2023-08-07	2025-06-26	0.597
28_1_5_114	MW-18	Part 115	Iron	mg/L	19	0	0%	-0.045456	0.003	↓	0.0040214	0.038	↔	-0.01103	0.001	↓	2023-03-19	2025-01-05	0.814
28_1_5_123	MW-18	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.676	↔	< 0.0001	0.265	↔	< 0.0001	0.902	↔	2023-02-07	2025-08-05	0.184
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	19	17	89%	< 0.0001	0.734	↔	< 0.0001	0.001	↓	< 0.0001	0.162	↔	2025-03-28	2026-01-25	0.916
28_1_5_129	MW-18	Part 115	Zinc	mg/L	19	0	0%	-0.00023753	0.494	↔	< 0.0001	0.594	↔	0.00028581	0.013	↔	2023-04-23	2025-01-02	0.581
29_1_3_105	MW-19	Appendix III	Boron	mg/L	19	0	0%	< 0.0001	0.980	↔	0.0098592	0.247	↔	-0.009375	0.317	↔	2025-06-03	2025-10-22	0.519
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	19	0	0%	-0.40159	0.096	↔	-0.016248	0.819	↔	-0.22643	0.296	↔	2023-07-29	2025-08-11	0.607
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.24111	0.003	↓	-0.010308	0.172	↔	-0.078125	0.636	↔	2023-04-26	2025-11-05	0.841
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	19	0	0%	-0.0059435	0.575	↔	-0.00039478	0.217	↔	0.00034768	0.688	↔	2023-01-27	2025-02-26	0.356
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-5.4131	0.429	↔	-0.096756	0.458	↔	-1.2293	0.733	↔	2023-02-07	2026-01-11	0.463
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	19	13	68%	< 0.0001	0.531	↔	< 0.0001	0.732	↔	< 0.0001	0.760	↔	2023-04-17	2025-08-29	0.133
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.490	↔	< 0.0001	0.446	↔	< 0.0001	0.035	↔	2023-03-17	2024-10-16	0.597
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	19	0	0%	-0.00012344	0.179	↔	< 0.0001	1.000	↔	< 0.0001	0.133	↔	2023-03-11	2025-10-18	0.610
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	19	17	89%	< 0.0001	0.343	↔	< 0.0001	0.650	↔	< 0.0001	0.313	↔	2024-02-13	2025-02-06	0.151
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	< 0.0001	0.162	↔	< 0.0001	0.947	↔	< 0.0001	0.946	↔	2023-07-07	2025-10-30	0.343
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	19	1	5%	< 0.0001	0.089	↔	< 0.0001	0.423	↔	< 0.0001	0.496	↔	2024-02-22	2025-02-25	0.350
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0059435	0.575	↔	-0.00039478	0.217	↔	0.00034768	0.688	↔	2023-01-27	2025-02-26	0.356
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	19	19	100%	< 0.0001	0.133	↔	< 0.0001	0.169	↔	< 0.0001	0.836	↔	2023-01-10	2023-09-01	0.460
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.351	↔	< 0.0001	0.388	↔	< 0.0001	0.225	↔	2024-06-28	2025-02-04	0.514
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	19	11	58%	< 0.0001	0.732	↔	< 0.0001	0.945	↔	< 0.0001	0.261	↔	2023-08-03	2025-05-24	0.316
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.576	↔	< 0.0001	0.574	↔	< 0.0001	0.640	↔	2023-02-02	2025-08-12	0.235
29_1_5_111	MW-19	Part 115	Copper	mg/L	19	15	79%	< 0.0001	0.060	↔	< 0.0001	0.106	↔	< 0.0001	0.520	↔	2023-01-31	2023-04-03	0.600
29_1_5_114	MW-19	Part 115	Iron	mg/L	19	0	0%	-0.031704	0.153	↔	0.06756	0.005	↑	-0.016465	0.000	↓	2023-05-12	2023-10-28	0.803
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	< 0.0001	0.776	↔	< 0.0001	0.121	↔	< 0.0001	0.668	↔	2023-06-04	2025-11-30	0.246
29_1_5_123	MW-19	Part 115	Silver	mg/L	19	19	100%	< 0.0001	0.496	↔	< 0.0001	0.228	↔	< 0.0001	0.963	↔	2023-04-17	2024-08-06	0.276
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	19	14	74%	< 0.0001	0.384	↔	< 0.0001	0.819	↔	< 0.0001	0.843	↔	2023-08-26	2025-12-26	0.138
29_1_5_129	MW-19	Part 115	Zinc	mg/L	19	10	53%	< 0.0001	0.937	↔	< 0.0001	0.983	↔	0.00014663	0.027	↔	2023-11-29	2025-01-26	0.561
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	0.10283	0.337	↔	-0.068955	0.002	↓	-0.029707	0.454	↔	2023-05-22	2025-03-14	0.815
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	-0.0082857	0.000	↓	< 0.0001	0.376	↔	-0.00080645	0.440	↔	2023-01-08	2026-02-04	0.788
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.16716	0.220	↔	-0.032761	0.835	↔	0.036096	0.567	↔	2023-08-07	2024-08-10	0.281
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	< 0.0001	0.953	↔	< 0.0001	0.116	↔	< 0.0001	0.737	↔	2023-05-14	2025-10-22	0.253
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.482	↔	< 0.0001	0.821	↔	< 0.0001	0.452	↔	2023-07-30	2025-10-21	0.170
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	19	0	0%	-0.0067662	0.008	↓	0.00025752	0.025	↔	-0.0013073	0.129	↔	2023-02-15	2025-08-13	0.700
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.923	↔	< 0.0001	0.113	↔	< 0.0001	0.702	↔	2023-09-28	2025-10-22	0.364

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.000	↓	< 0.0001	0.014	↔	< 0.0001	0.447	↔	2025-03-22	2025-10-22	0.713
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	-0.0082857	0.000	↓	< 0.0001	0.376	↔	-0.00080645	0.440	↔	2023-01-08	2026-02-04	0.788
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.224	↔	< 0.0001	0.328	↔	< 0.0001	0.458	↔	2024-10-15	2025-12-10	0.513
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	18	9	50%	-0.019423	0.057	↔	0.0001581	0.417	↔	-0.00068253	0.898	↔	2023-01-14	2025-10-22	0.521
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	19	11	58%	< 0.0001	0.173	↔	< 0.0001	0.320	↔	< 0.0001	0.749	↔	2023-08-20	2025-10-22	0.256
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.204	↔	< 0.0001	0.180	↔	< 0.0001	0.765	↔	2024-02-12	2025-03-01	0.295
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	< 0.0001	0.820	↔	< 0.0001	0.030	↔	< 0.0001	0.474	↔	2025-02-12	2025-10-22	0.514
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.303	↔	< 0.0001	0.119	↔	< 0.0001	0.210	↔	2024-06-25	2025-10-21	0.364
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	19	19	100%	< 0.0001	0.212	↔	< 0.0001	0.001	↓	< 0.0001	0.941	↔	2025-01-02	2025-10-02	0.940
30_1_5_129	MW-20	Part 115	Zinc	mg/L	19	0	0%	< 0.0001	0.253	↔	< 0.0001	0.070	↔	-0.00016543	0.359	↔	2024-01-23	2025-10-21	0.365
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	0.79547	0.028	↔	-0.29769	0.132	↔	-0.76546	0.291	↔	2025-01-15	2025-10-23	0.959
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	9	0	0%	-0.00054178	0.786	↔	0.0040685	0.505	↔	-0.0085016	0.085	↔	2025-04-19	2025-10-22	0.723
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	0.12354	0.279	↔	-0.23405	0.262	↔	0.30373	0.584	↔	2025-04-17	2025-11-05	0.637
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	1.5897	0.134	↔	-0.8708	0.394	↔	-1.7058	0.128	↔	2025-01-31	2025-08-28	0.901
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	9	0	0%	< 0.0001	0.666	↔	< 0.0001	0.805	↔	< 0.0001	0.217	↔	2025-02-27	2025-09-16	0.673
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	-0.00054178	0.786	↔	0.0040685	0.505	↔	-0.0085016	0.085	↔	2025-04-19	2025-10-22	0.723
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	9	0	0%	< 0.0001	0.973	↔	< 0.0001	0.432	↔	< 0.0001	0.705	↔	2025-01-16	2025-10-22	0.664
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	< 0.0001	0.990	↔	0.00096627	0.708	↔	-0.0010803	0.884	↔	2025-03-04	2025-10-24	0.210
38_1_5_111	MW-28	Part 115	Copper	mg/L	9	1	11%	< 0.0001	0.725	↔	< 0.0001	0.616	↔	< 0.0001	0.449	↔	2025-06-12	2026-02-17	0.686
38_1_5_114	MW-28	Part 115	Iron	mg/L	9	0	0%	0.068627	0.732	↔	-0.012034	0.856	↔	-0.17956	0.173	↔	2024-10-09	2025-10-02	0.753
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	9	2	22%	< 0.0001	0.448	↔	< 0.0001	0.166	↔	< 0.0001	0.061	↔	2024-08-31	2026-01-26	0.854
40_1_3_105	MW-30	Appendix III	Boron	mg/L	19	0	0%	0.0050303	0.406	↔	-0.003002	0.587	↔	-0.0001446	0.760	↔	2023-03-13	2023-10-07	0.294
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	19	0	0%	2.6732	0.507	↔	-1.9539	0.429	↔	0.094344	0.592	↔	2023-03-12	2023-07-25	0.161
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.2078	0.322	↔	3.8083	0.000	↑	-2.5808	0.000	↓	2024-06-17	2025-05-26	0.955
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	0.0035553	0.147	↔	-0.00030261	0.361	↔	0.00027939	0.569	↔	2023-03-13	2025-02-24	0.272
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.12233	0.790	↔	10.419	0.000	↑	-6.8114	0.000	↓	2024-10-04	2025-05-25	0.893
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	19	15	79%	< 0.0001	0.803	↔	< 0.0001	0.719	↔	< 0.0001	0.138	↔	2025-04-20	2026-01-30	0.298
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	< 0.0001	0.758	↔	< 0.0001	0.005	↑	< 0.0001	0.395	↔	2024-07-07	2025-10-21	0.668
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	19	15	79%	< 0.0001	0.607	↔	< 0.0001	0.601	↔	< 0.0001	0.399	↔	2024-01-13	2025-02-24	0.106
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.552	↔	< 0.0001	0.893	↔	< 0.0001	0.769	↔	2023-05-21	2025-12-03	0.148
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.637	↔	< 0.0001	0.335	↔	< 0.0001	0.084	↔	2024-01-17	2025-02-24	0.327
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	19	17	89%	< 0.0001	0.593	↔	0.00020573	0.096	↔	-0.00024723	0.004	↓	2025-03-30	2025-10-20	0.651
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	-0.00011829	0.290	↔	0.00017697	0.232	↔	-0.00013771	0.547	↔	2024-03-18	2025-04-20	0.197
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	19	17	89%	0.2411	0.048	↔	-0.50729	0.016	↔	0.0072616	0.987	↔	2024-04-07	2025-08-14	0.746
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19	3	16%	< 0.0001	0.712	↔	< 0.0001	0.102	↔	< 0.0001	0.527	↔	2024-08-03	2025-10-24	0.454
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	< 0.0001	0.326	↔	< 0.0001	0.154	↔	< 0.0001	0.728	↔	2023-07-02	2025-10-21	0.228
40_1_5_111	MW-30	Part 115	Copper	mg/L	19	13	68%	< 0.0001	0.648	↔	< 0.0001	0.093	↔	< 0.0001	0.004	↓	2025-04-06	2025-10-20	0.642
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19	3	16%	< 0.0001	0.652	↔	0.00013109	0.304	↔	-0.00012345	0.072	↔	2024-01-17	2025-02-24	0.361
40_1_5_123	MW-30	Part 115	Silver	mg/L	19	18	95%	< 0.0001	0.554	↔	< 0.0001	0.575	↔	< 0.0001	0.818	↔	2023-02-05	2023-10-04	0.191
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	19	16	84%	< 0.0001	0.528	↔	< 0.0001	0.148	↔	< 0.0001	0.141	↔	2024-02-19	2025-10-20	0.362
41_1_3_105	MW-31	Appendix III	Boron	mg/L	19	0	0%	0.002894	0.354	↔	0.00042633	0.810	↔	0.004311	0.091	↔	2023-09-01	2025-02-26	0.647
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.023978	0.297	↔	0.18356	0.002	↑	-0.27684	0.387	↔	2024-09-22	2025-10-21	0.725

(Table continues on next page)

Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	19	0	0%	0.0020001	0.399	↔	-0.001001	0.010	↓	-0.0038332	0.010	↓	2023-05-15	2025-04-20	0.896
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	-0.45377	0.358	↔	-0.0080456	0.965	↔	2.3043	0.016	↔	2023-09-02	2025-10-20	0.581
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.12268	0.403	↔	0.46035	0.444	↔	2.9749	0.238	↔	2024-11-05	2025-10-22	0.784
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.573	↔	< 0.0001	0.557	↔	< 0.0001	0.003	↑	2025-04-04	2025-10-15	0.807
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	19	0	0%	< 0.0001	0.680	↔	0.00024028	0.087	↔	-0.00019963	0.892	↔	2024-03-25	2025-10-21	0.385
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	19	16	84%	< 0.0001	0.056	↔	< 0.0001	0.503	↔	< 0.0001	0.002	↑	2024-10-15	2025-10-04	0.725
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	19	18	95%	< 0.0001	0.000	↑	< 0.0001	0.780	↔	< 0.0001	0.979	↔	2023-08-19	2025-03-17	0.852
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.093	↔	< 0.0001	0.870	↔	< 0.0001	0.001	↑	2024-10-15	2025-08-09	0.754
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	< 0.0001	0.787	↔	< 0.0001	0.684	↔	< 0.0001	0.025	↔	2024-10-14	2025-06-30	0.537
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.0020001	0.399	↔	-0.001001	0.010	↓	-0.0038332	0.010	↓	2023-05-15	2025-04-20	0.896
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.450	↔	< 0.0001	0.623	↔	< 0.0001	0.484	↔	2025-01-03	2025-08-11	0.672
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	0.00085279	0.693	↔	-0.0003699	0.328	↔	0.00083721	0.309	↔	2023-05-21	2025-03-20	0.157
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	19	18	95%	< 0.0001	0.202	↔	< 0.0001	0.179	↔	< 0.0001	0.763	↔	2024-02-11	2025-03-01	0.296
41_1_5_111	MW-31	Part 115	Copper	mg/L	19	10	53%	< 0.0001	0.866	↔	< 0.0001	0.977	↔	< 0.0001	0.101	↔	2024-02-23	2025-03-19	0.443
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	-0.0066396	0.054	↔	< 0.0001	0.947	↔	0.019064	0.000	↑	2023-09-08	2025-08-04	0.834
41_1_5_119	MW-31	Part 115	Nickel	mg/L	19	10	53%	< 0.0001	0.828	↔	0.00072167	0.543	↔	0.00033017	0.763	↔	2024-11-12	2025-09-02	0.393
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	19	12	63%	< 0.0001	0.780	↔	< 0.0001	0.231	↔	< 0.0001	0.110	↔	2023-10-18	2024-10-15	0.328
42_1_3_105	MW-32	Appendix III	Boron	mg/L	19	0	0%	0.00055162	0.508	↔	0.010578	0.553	↔	-0.014651	0.460	↔	2025-04-20	2025-10-23	0.422
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	19	0	0%	-0.18969	0.108	↔	0.002565	0.929	↔	0.39451	0.024	↔	2023-08-07	2025-10-01	0.654
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	-0.020407	0.026	↔	0.032695	0.000	↑	-0.29688	0.001	↓	2024-04-06	2026-01-03	0.833
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	19	0	0%	0.00028114	0.196	↔	-0.001338	0.751	↔	-0.00078403	0.345	↔	2024-10-18	2025-06-30	0.588
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	0.16733	0.888	↔	-0.103	0.055	↔	1.9594	0.149	↔	2023-03-07	2025-10-29	0.713
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	-0.23004	0.085	↔	0.13573	0.714	↔	1.0934	0.090	↔	2024-08-31	2025-09-20	0.534
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	19	15	79%	< 0.0001	0.050	↔	< 0.0001	0.495	↔	< 0.0001	0.689	↔	2024-02-12	2025-02-21	0.351
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	< 0.0001	0.170	↔	< 0.0001	0.329	↔	< 0.0001	0.838	↔	2024-02-11	2025-02-23	0.356
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	19	0	0%	-0.0024528	0.284	↔	0.0010238	0.001	↑	-0.0060212	0.279	↔	2023-04-29	2025-10-21	0.686
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	19	16	84%	< 0.0001	0.018	↔	< 0.0001	0.238	↔	< 0.0001	0.001	↑	2023-11-15	2025-12-24	0.907
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	< 0.0001	0.313	↔	< 0.0001	0.243	↔	< 0.0001	0.775	↔	2024-02-11	2025-03-16	0.232
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	< 0.0001	0.330	↔	< 0.0001	0.198	↔	< 0.0001	0.001	↑	2024-02-11	2026-02-06	0.747
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	0.00028114	0.196	↔	-0.001338	0.751	↔	-0.00078403	0.345	↔	2024-10-18	2025-06-30	0.588
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	19	14	74%	< 0.0001	0.543	↔	< 0.0001	0.520	↔	< 0.0001	0.271	↔	2023-07-28	2025-08-10	0.162
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	19	0	0%	-0.00040929	0.209	↔	0.00083333	0.543	↔	< 0.0001	0.693	↔	2023-05-06	2023-07-12	0.205
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	19	15	79%	1.5975	0.058	↔	-2.3261	0.363	↔	0.10331	0.940	↔	2024-04-07	2025-03-10	0.360
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	19	0	0%	< 0.0001	0.334	↔	< 0.0001	0.021	↔	< 0.0001	0.821	↔	2024-02-11	2025-06-10	0.664
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	19	15	79%	< 0.0001	0.469	↔	< 0.0001	0.317	↔	< 0.0001	0.097	↔	2023-07-24	2024-02-12	0.279
42_1_5_111	MW-32	Part 115	Copper	mg/L	19	11	58%	< 0.0001	0.092	↔	< 0.0001	0.198	↔	< 0.0001	0.762	↔	2024-02-11	2024-08-16	0.387
42_1_5_114	MW-32	Part 115	Iron	mg/L	19	0	0%	-0.027766	0.012	↔	0.0015535	0.733	↔	0.029549	0.019	↔	2023-08-08	2025-05-18	0.756
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	< 0.0001	0.198	↔	< 0.0001	0.233	↔	< 0.0001	0.170	↔	2024-02-11	2025-01-08	0.331
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	19	19	100%	< 0.0001	1.000	↔	< 0.0001	1.000	↔	< 0.0001	0.000	↓	2023-02-11	2025-01-07	0.875
42_1_5_129	MW-32	Part 115	Zinc	mg/L	19	0	0%	< 0.0001	0.697	↔	< 0.0001	0.450	↔	0.00028038	0.579	↔	2023-06-27	2025-12-20	0.317
46_1_3_105	MW-36	Appendix III	Boron	mg/L	9	0	0%	0.0013047	0.618	↔	< 0.0001	0.934	↔	-0.0011586	0.780	↔	2024-08-19	2025-10-21	0.417
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	9	0	0%	-0.031883	0.407	↔	0.2963	0.086	↔	-0.019862	0.445	↔	2025-02-25	2025-05-12	0.873

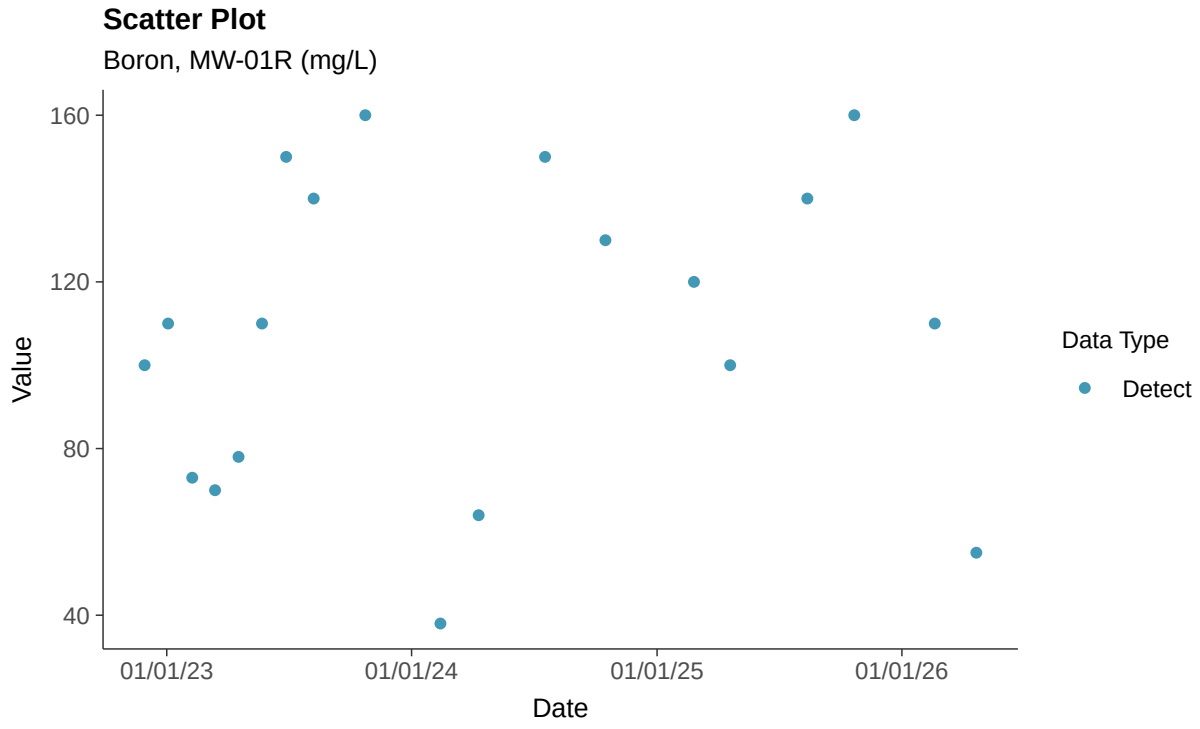
(Table continues on next page)

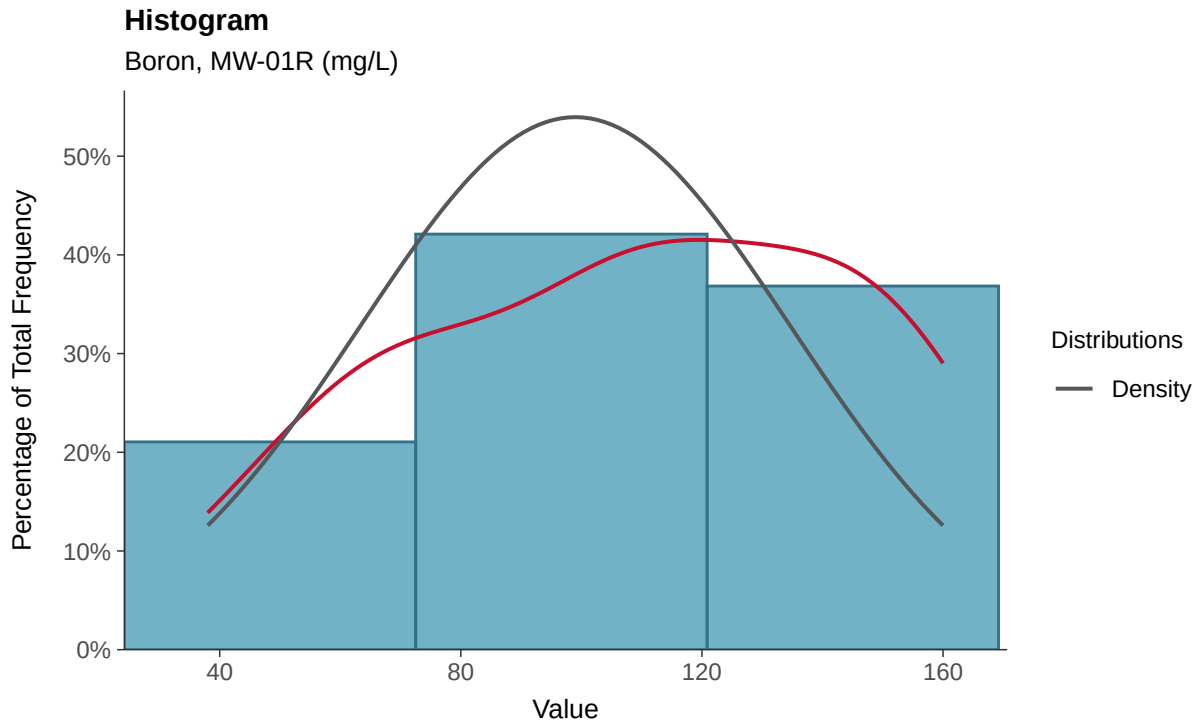
Table 10: Trend Tests: Piecewise Linear-Linear-Linear *(continued)*

								Line 1			Line 2			Line 3					
ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Slope	p-Value	Trend	Slope	p-Value	Trend	Slope	p-Value	Trend	Break 1	Break 2	R-Squared
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	9	0	0%	0.0010621	0.433	↔	-0.0001509	0.871	↔	-0.0013956	0.726	↔	2024-10-18	2025-12-11	0.450
46_1_3_120	MW-36	Appendix III	pH (field)	su	9	0	0%	-0.0027219	0.404	↔	-0.009113	0.642	↔	0.01689	0.460	↔	2025-06-17	2025-12-07	0.665
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.085	↔	< 0.0001	0.630	↔	< 0.0001	0.683	↔	2024-11-23	2026-01-11	0.895
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	9	0	0%	< 0.0001	0.898	↔	0.00032413	0.520	↔	-0.00026857	0.560	↔	2025-02-03	2025-09-12	0.437
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	9	8	89%	< 0.0001	0.937	↔	< 0.0001	0.483	↔	< 0.0001	0.051	↔	2025-07-31	2026-01-02	0.901
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	9	0	0%	< 0.0001	0.303	↔	< 0.0001	0.287	↔	< 0.0001	0.854	↔	2024-07-31	2025-10-15	0.723
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	9	0	0%	< 0.0001	0.816	↔	< 0.0001	0.576	↔	< 0.0001	0.706	↔	2025-02-25	2025-10-18	0.522
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	0.0010621	0.433	↔	-0.0001509	0.871	↔	-0.0013956	0.726	↔	2024-10-18	2025-12-11	0.450
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	9	0	0%	< 0.0001	0.897	↔	< 0.0001	0.485	↔	< 0.0001	0.463	↔	2025-02-26	2025-08-14	0.478
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	9	0	0%	< 0.0001	0.669	↔	< 0.0001	0.332	↔	< 0.0001	0.032	↔	2024-10-29	2025-10-13	0.874
46_1_5_119	MW-36	Part 115	Nickel	mg/L	9	0	0%	< 0.0001	0.166	↔	< 0.0001	0.173	↔	< 0.0001	0.614	↔	2024-09-29	2025-12-01	0.928
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	9	0	0%	-0.00071587	0.322	↔	0.0010388	0.183	↔	-0.00049525	0.484	↔	2025-01-06	2025-08-18	0.636
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	9	0	0%	< 0.0001	0.761	↔	< 0.0001	0.093	↔	< 0.0001	0.634	↔	2024-09-14	2025-10-21	0.747
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	9	8	89%	< 0.0001	0.491	↔	< 0.0001	0.214	↔	< 0.0001	0.083	↔	2025-02-02	2026-01-15	0.851
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	9	5	56%	< 0.0001	0.312	↔	< 0.0001	0.024	↔	< 0.0001	0.227	↔	2024-08-06	2025-02-17	0.974
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	9	0	0%	< 0.0001	0.725	↔	< 0.0001	0.412	↔	< 0.0001	0.875	↔	2024-12-16	2025-10-27	0.327
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	9	0	0%	< 0.0001	0.647	↔	< 0.0001	0.578	↔	< 0.0001	0.681	↔	2025-11-23	2024-08-31	0.649
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	-0.00071587	0.322	↔	0.0010388	0.183	↔	-0.00049525	0.484	↔	2025-01-06	2025-08-18	0.636
47_1_5_119	MW-37	Part 115	Nickel	mg/L	9	0	0%	< 0.0001	0.100	↔	< 0.0001	0.422	↔	< 0.0001	0.108	↔	2025-04-02	2025-09-04	0.901
47_1_5_123	MW-37	Part 115	Silver	mg/L	9	8	89%	< 0.0001	0.293	↔	< 0.0001	0.213	↔	< 0.0001	0.767	↔	2024-10-14	2025-03-21	0.747
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	9	5	56%	< 0.0001	0.985	↔	< 0.0001	0.811	↔	< 0.0001	0.641	↔	2025-01-24	2025-10-21	0.690
47_1_5_129	MW-37	Part 115	Zinc	mg/L	9	0	0%	< 0.0001	0.214	↔	< 0.0001	0.529	↔	0.00011369	0.211	↔	2025-06-19	2026-02-17	0.884
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	9	2	22%	< 0.0001	0.214	↔	< 0.0001	0.174	↔	< 0.0001	0.486	↔	2025-02-26	2025-09-06	0.832
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	9	4	44%	< 0.0001	0.685	↔	< 0.0001	0.276	↔	< 0.0001	0.375	↔	2025-02-25	2025-08-27	0.505
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	9	0	0%	< 0.0001	0.946	↔	< 0.0001	0.552	↔	< 0.0001	0.004	↑	2024-12-15	2026-02-17	0.972
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	9	0	0%	< 0.0001	0.215	↔	< 0.0001	0.392	↔	< 0.0001	0.044	↔	2025-04-20	2026-01-06	0.899
48_2_5_123	MW-38	Part 115	Silver	mg/L	9	6	67%	< 0.0001	0.322	↔	< 0.0001	0.357	↔	< 0.0001	0.079	↔	2024-07-17	2026-02-13	0.785
48_2_5_129	MW-38	Part 115	Zinc	mg/L	9	1	11%	0.000134	0.236	↔	< 0.0001	0.126	↔	0.00048387	0.045	↔	2024-07-29	2026-01-11	0.917

Appendix III: Boron, MW-01R

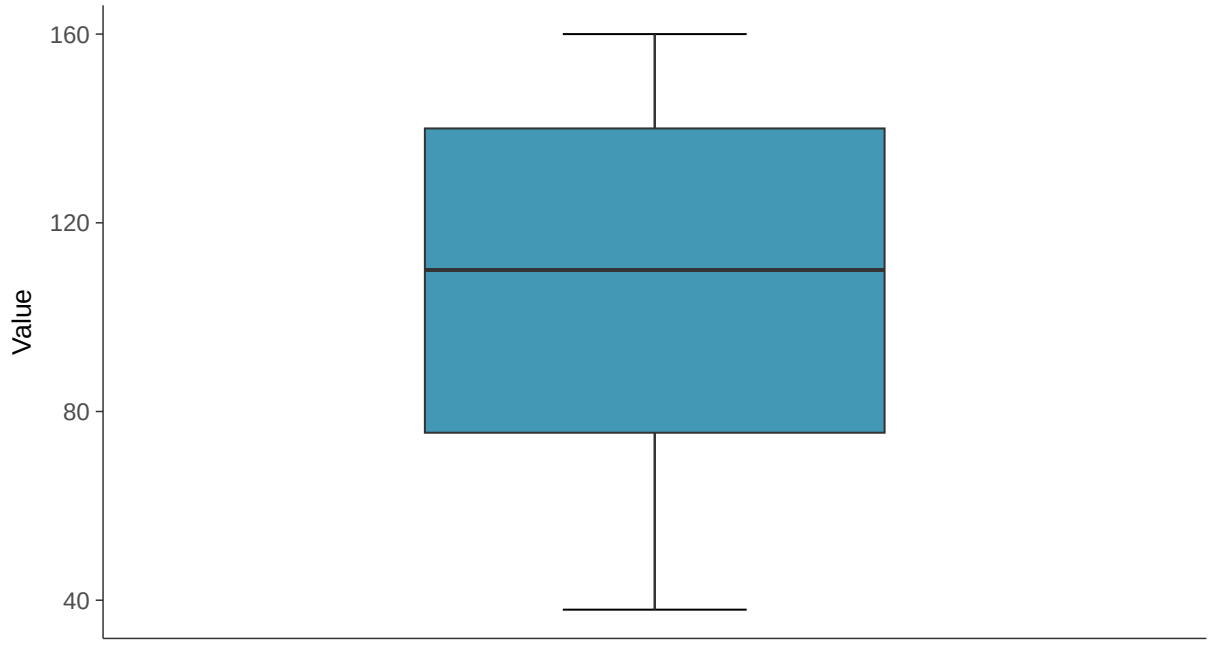
ID: 11_2_3_105





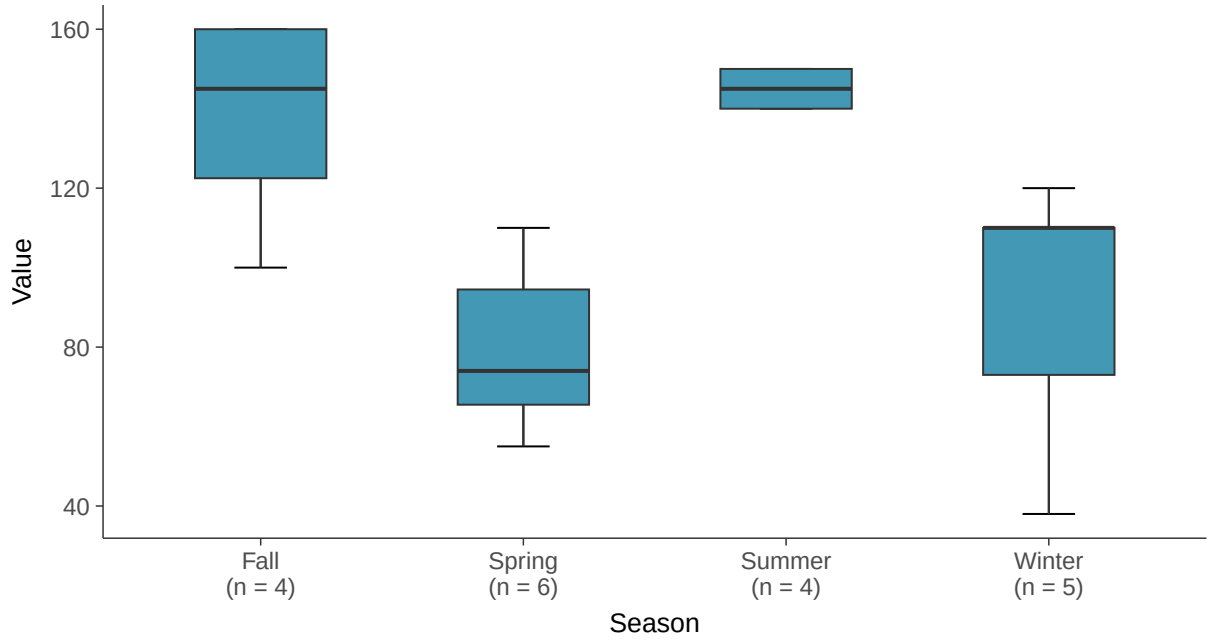
Boxplot

Boron, MW-01R (mg/L)



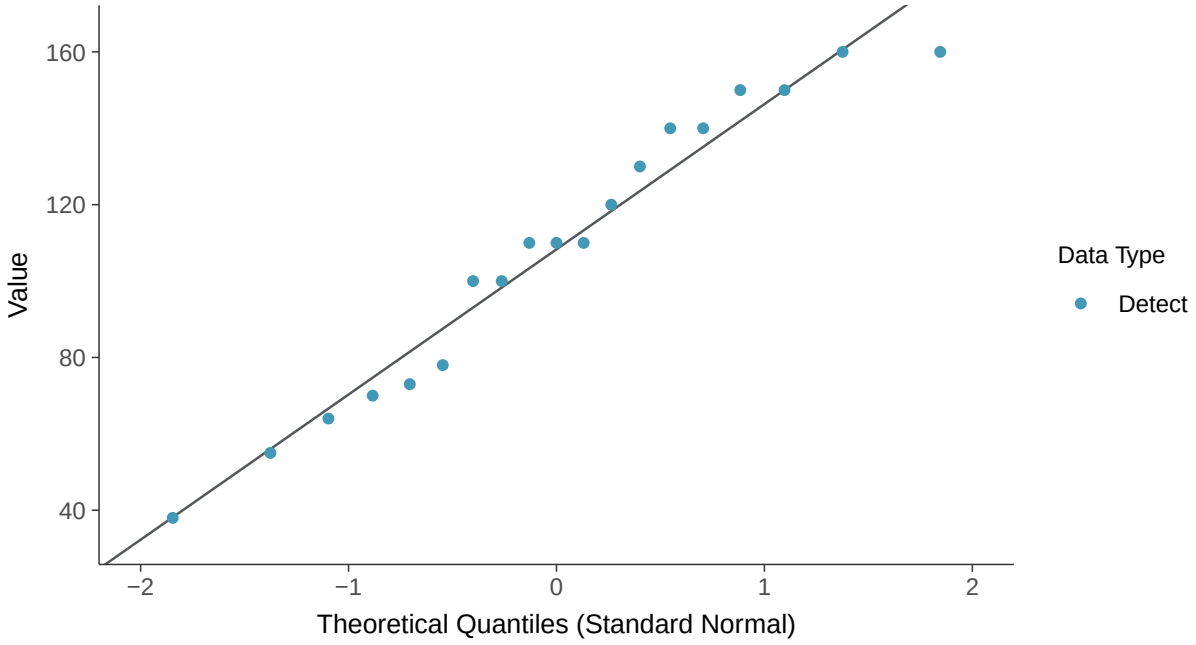
Boxplot by Season

Boron, MW-01R (mg/L)



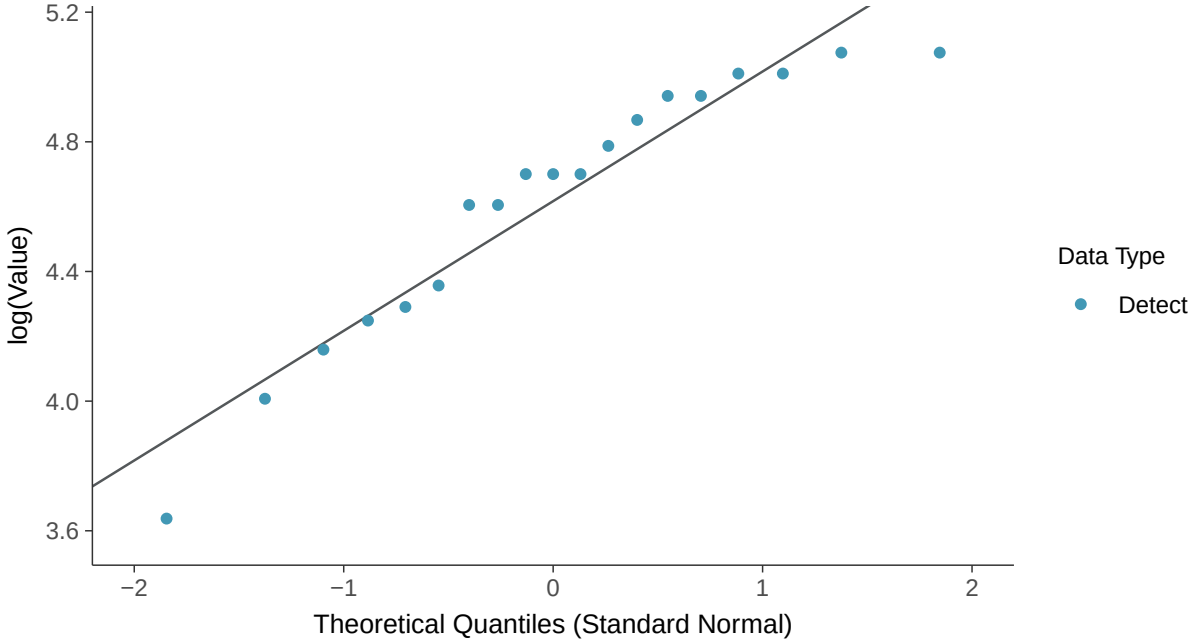
Normal Q-Q plot

Boron, MW-01R (mg/L)



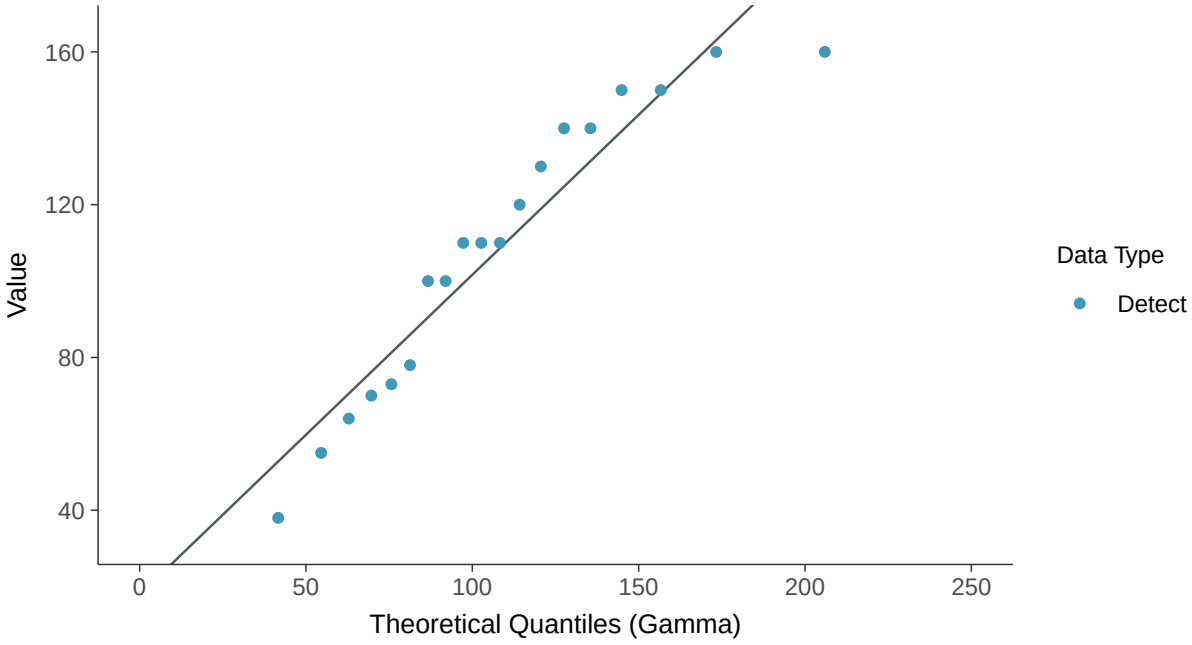
Lognormal Q-Q plot

Boron, MW-01R (mg/L)



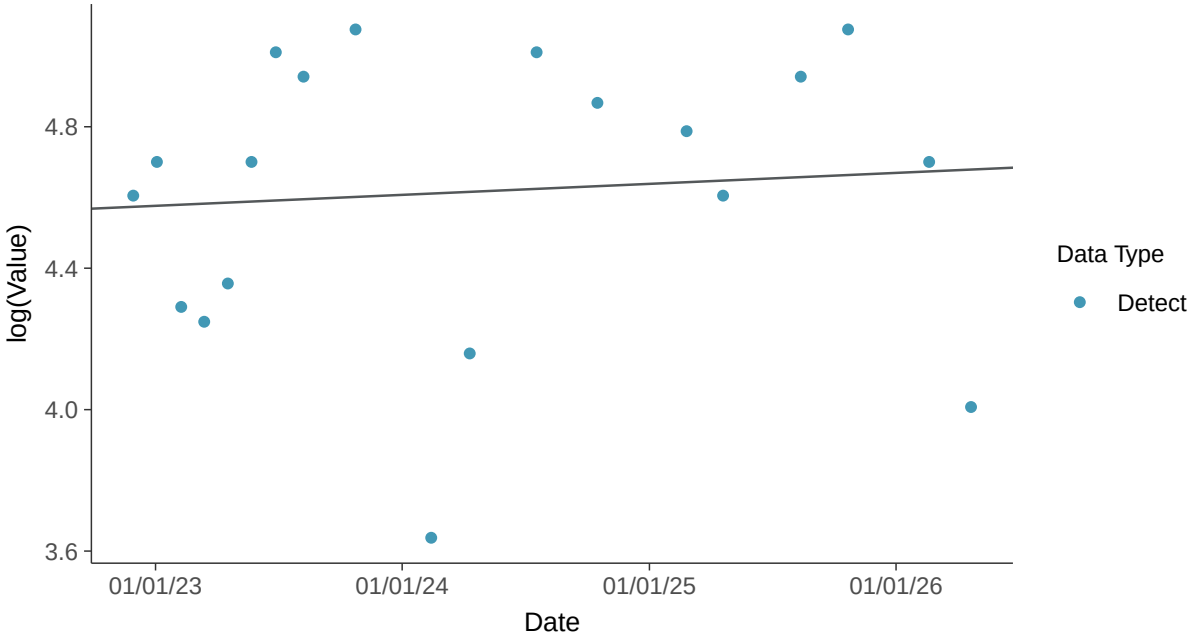
Gamma Q-Q plot

Boron, MW-01R (mg/L)



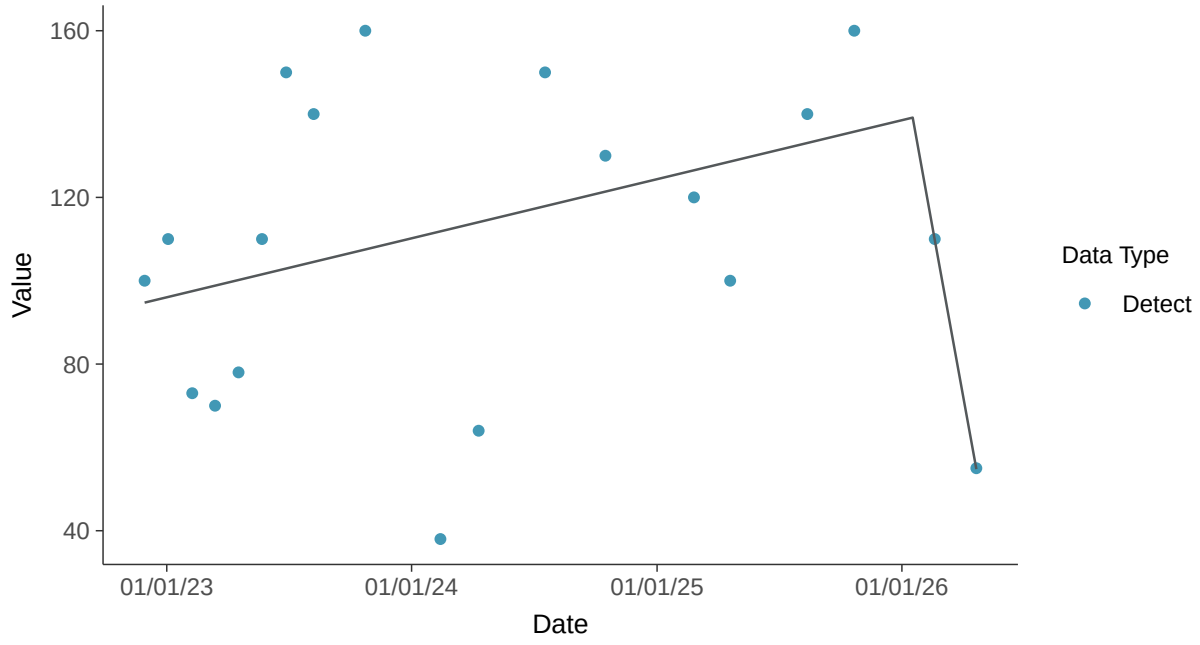
Trend Regression: Lognormal MLE

Boron, MW-01R (mg/L)



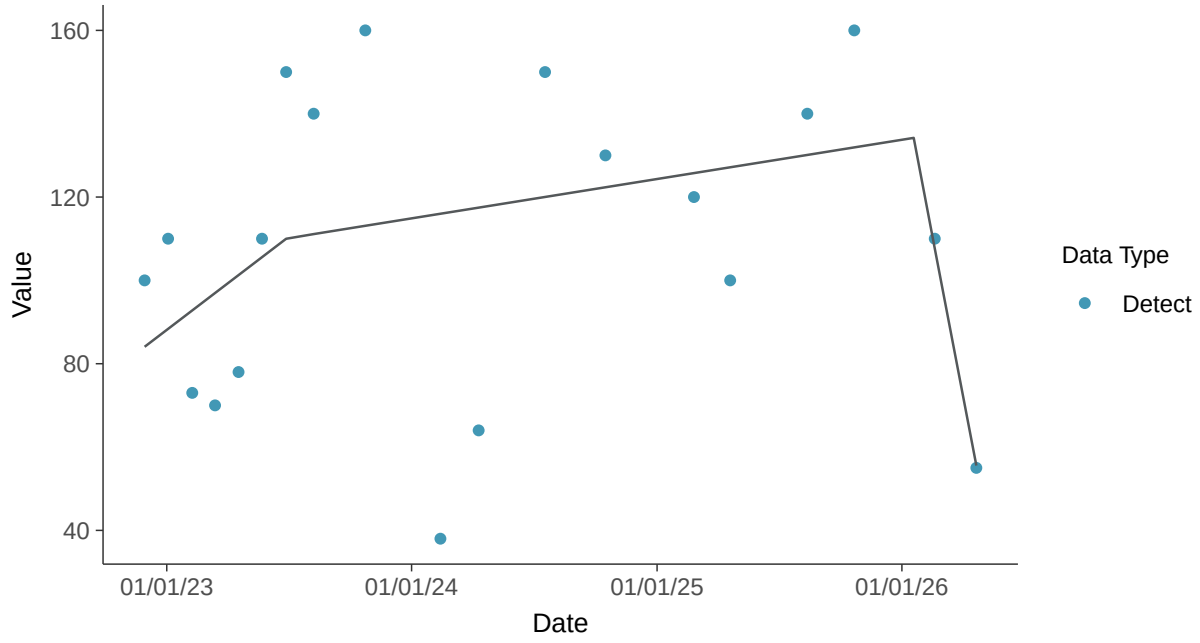
Trend Regression: Piecewise Linear-Linear

Boron, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-01R (mg/L)

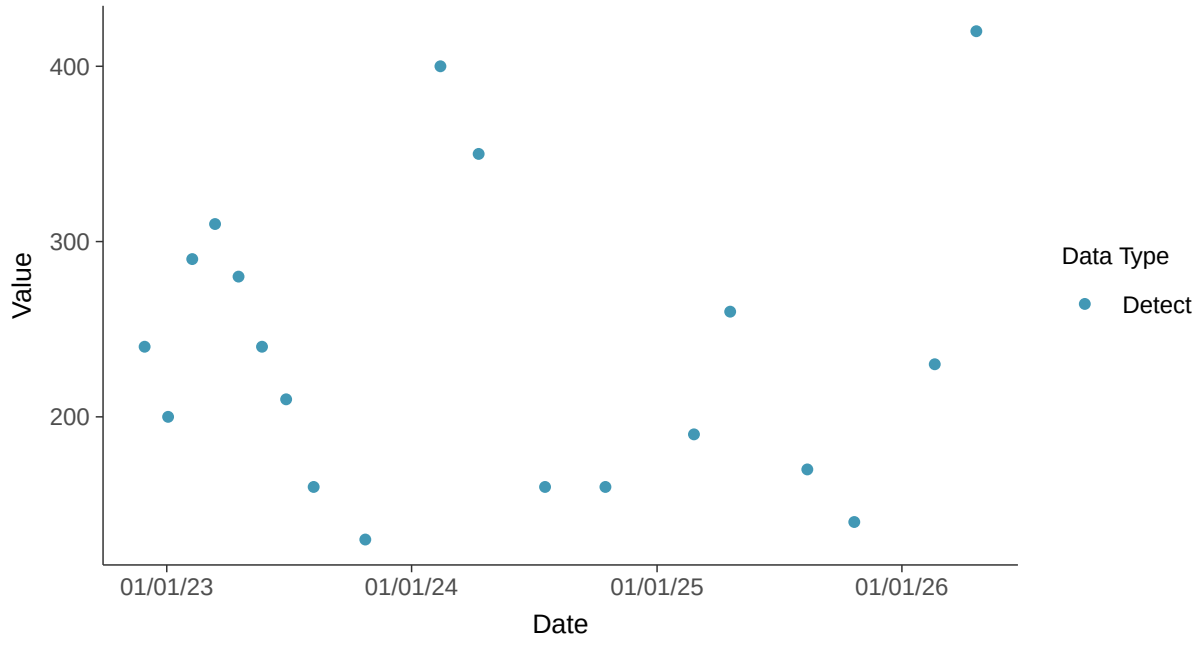


Appendix III: Calcium, MW-01R

ID: 11_2_3_107

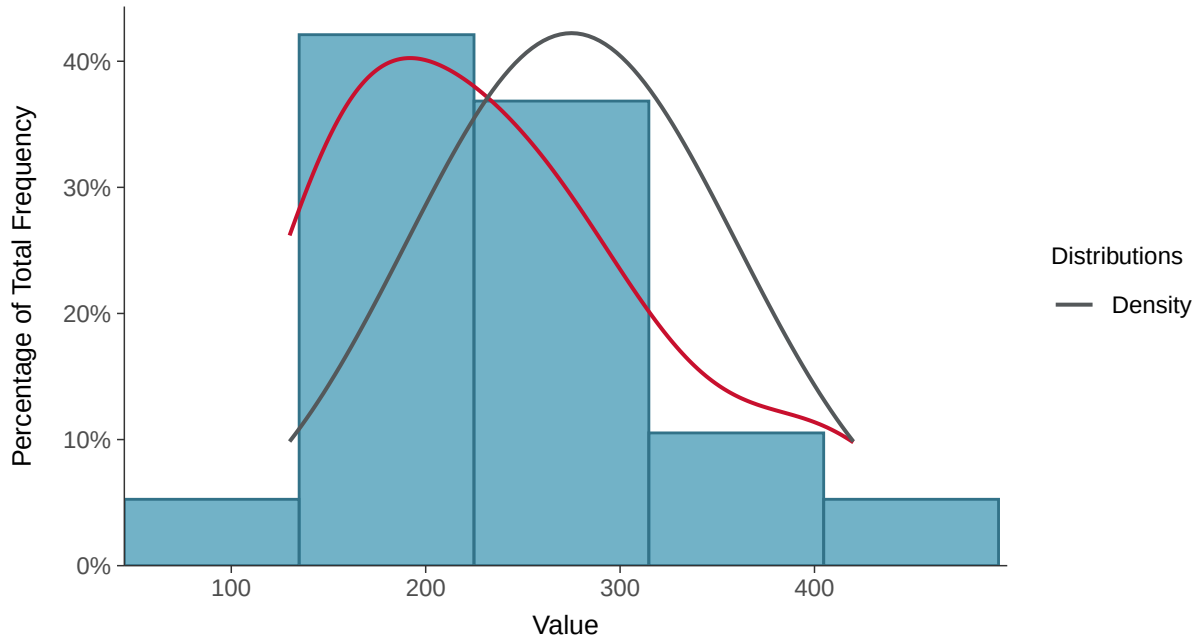
Scatter Plot

Calcium, MW-01R (mg/L)



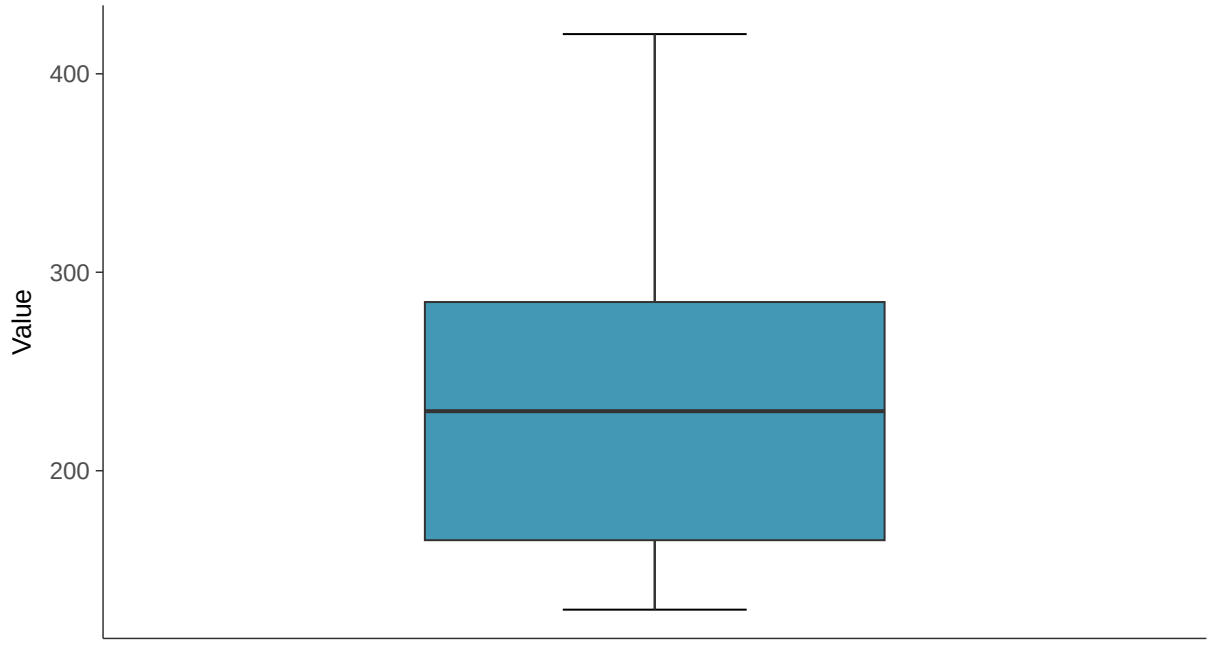
Histogram

Calcium, MW-01R (mg/L)



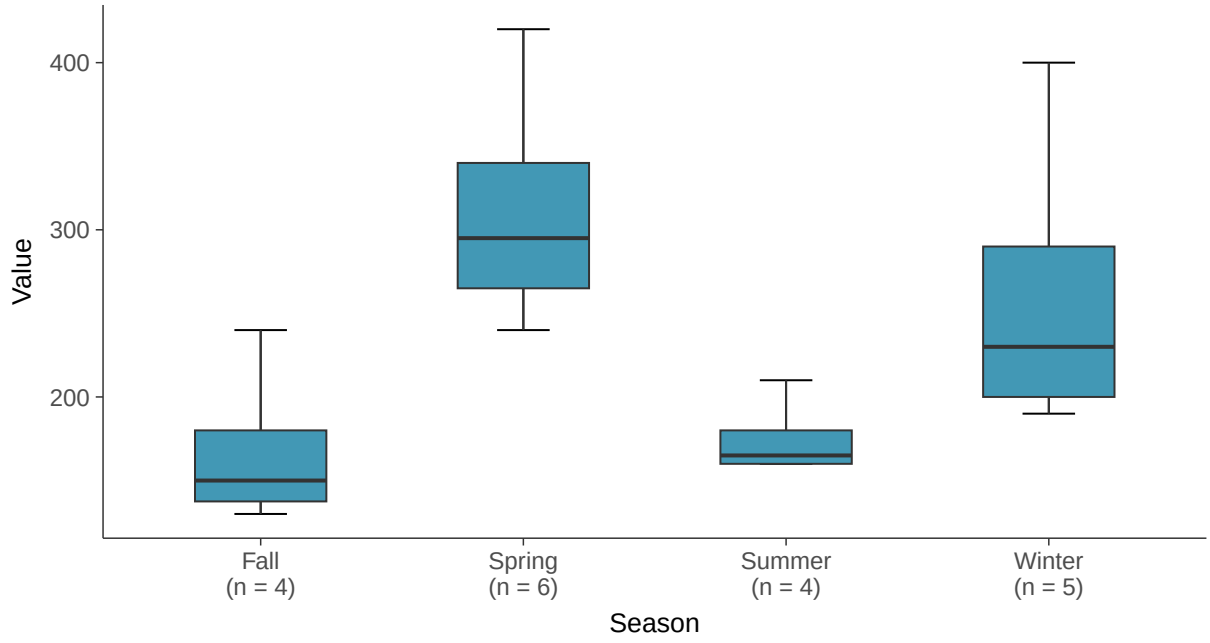
Boxplot

Calcium, MW-01R (mg/L)



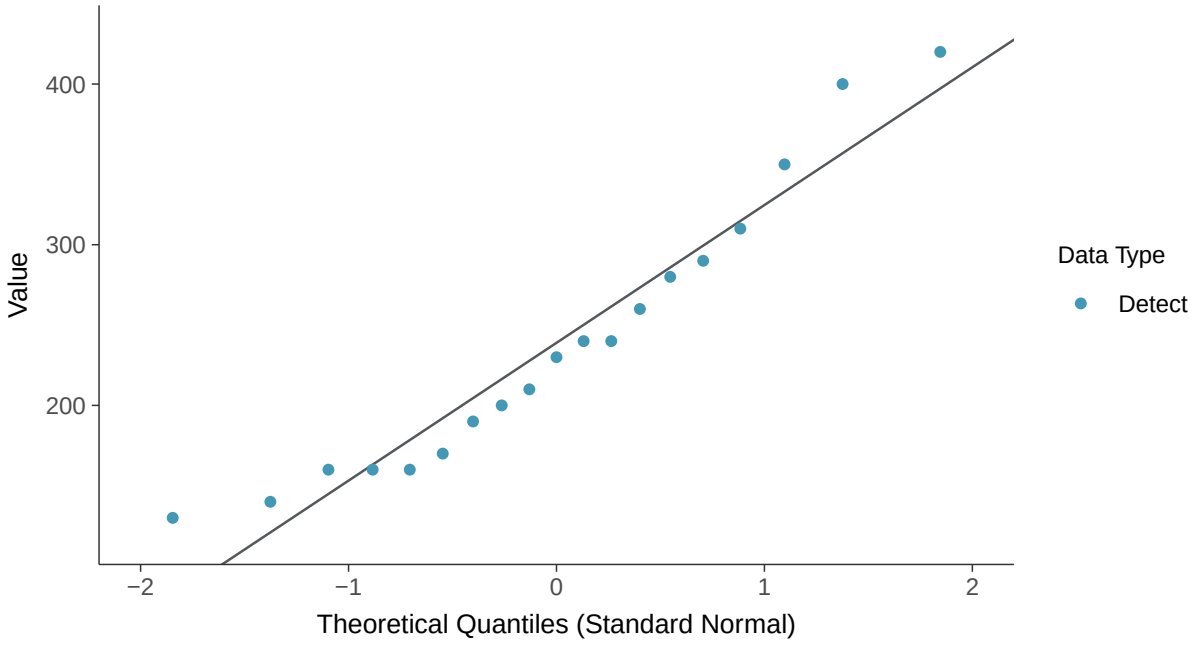
Boxplot by Season

Calcium, MW-01R (mg/L)



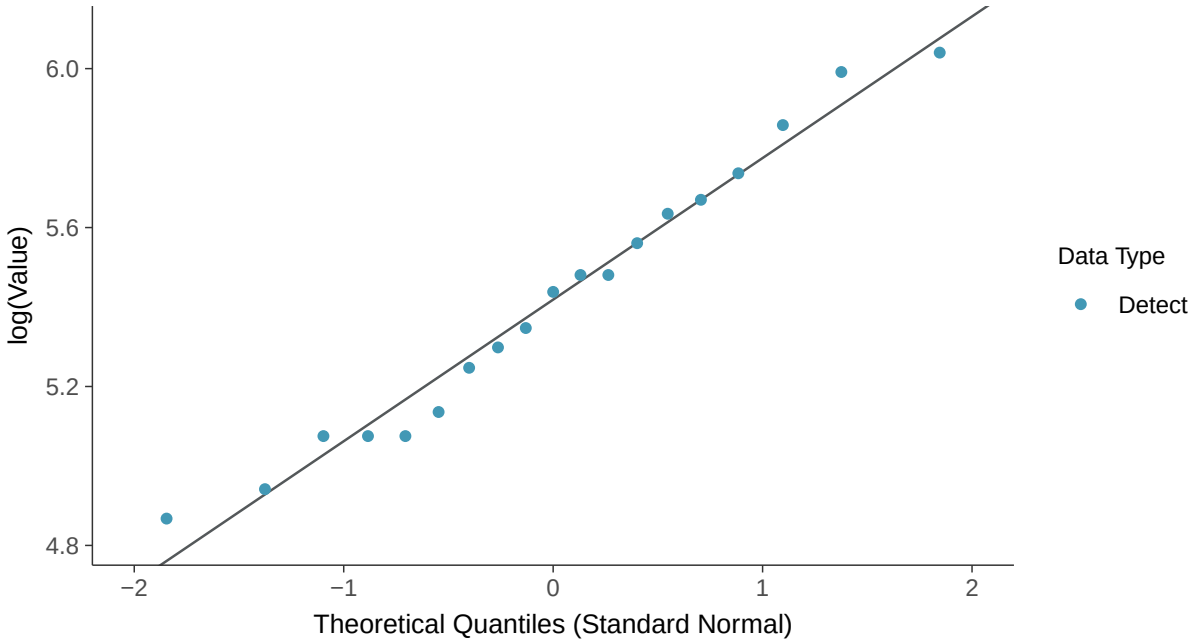
Normal Q-Q plot

Calcium, MW-01R (mg/L)



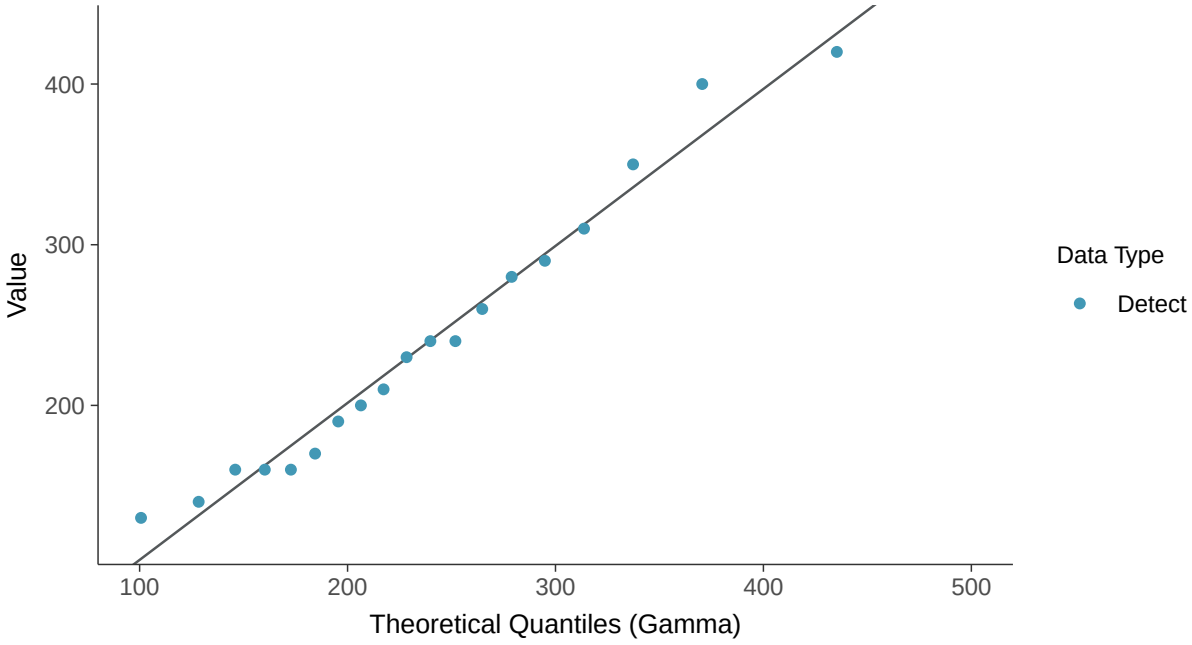
Lognormal Q-Q plot

Calcium, MW-01R (mg/L)



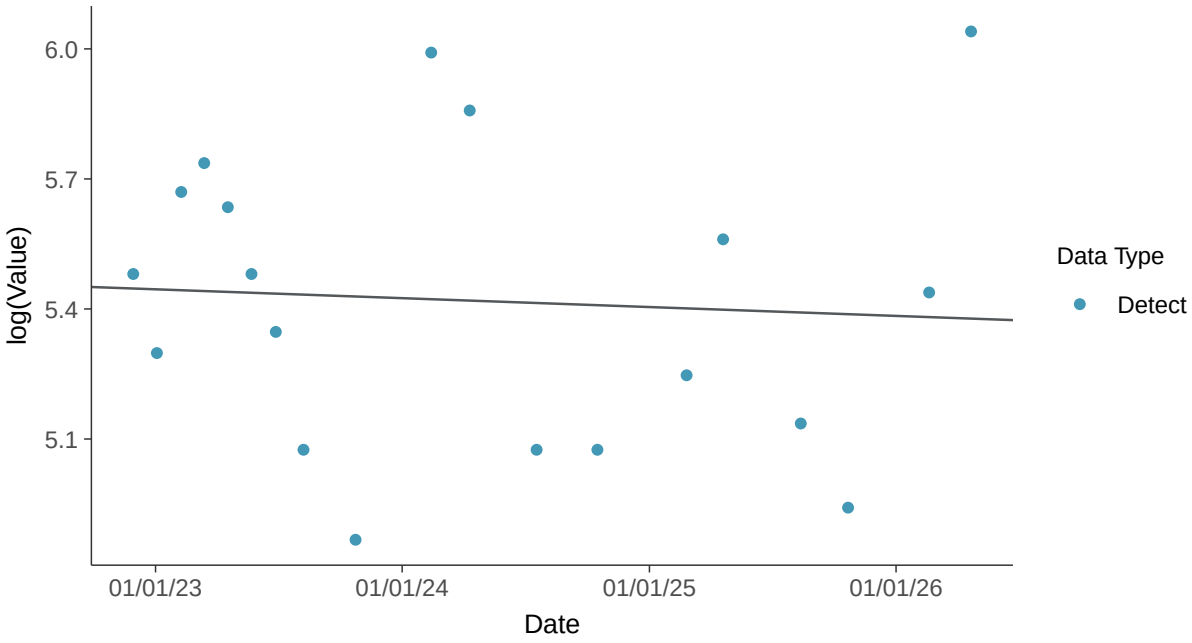
Gamma Q-Q plot

Calcium, MW-01R (mg/L)



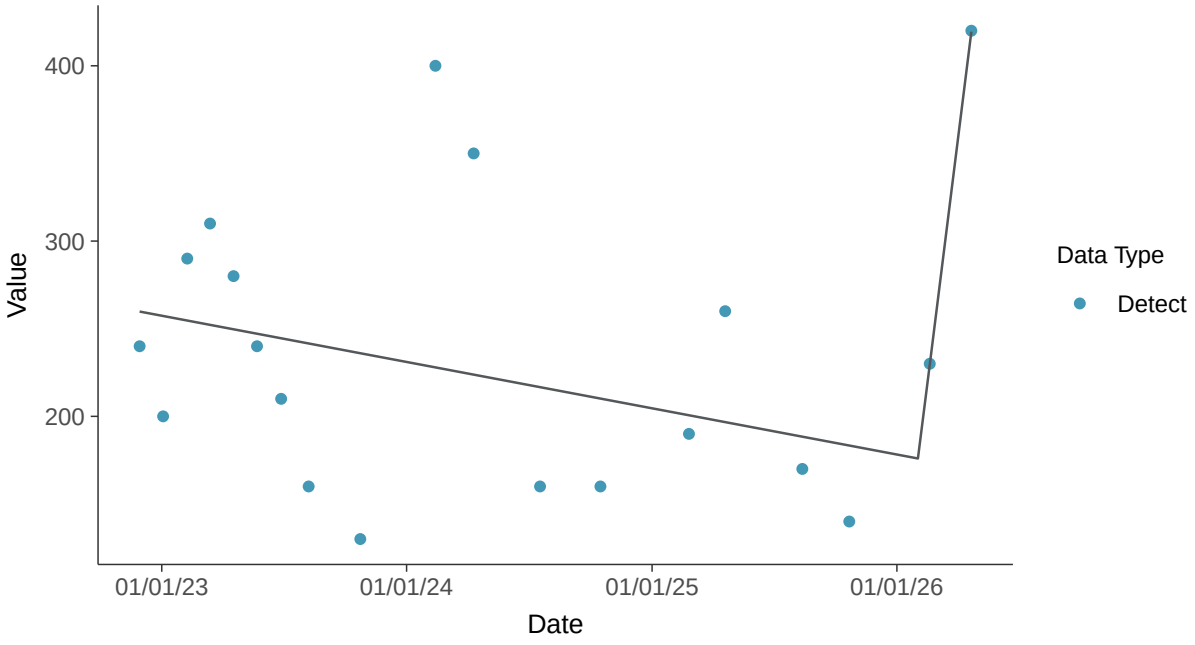
Trend Regression: Lognormal MLE

Calcium, MW-01R (mg/L)



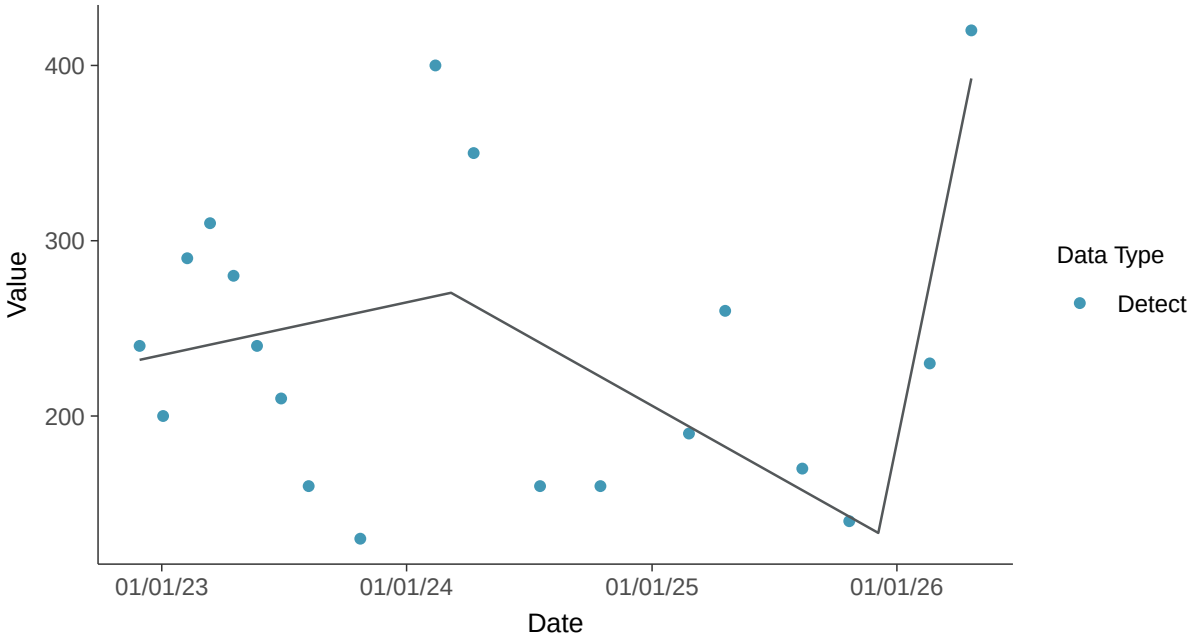
Trend Regression: Piecewise Linear-Linear

Calcium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-01R (mg/L)

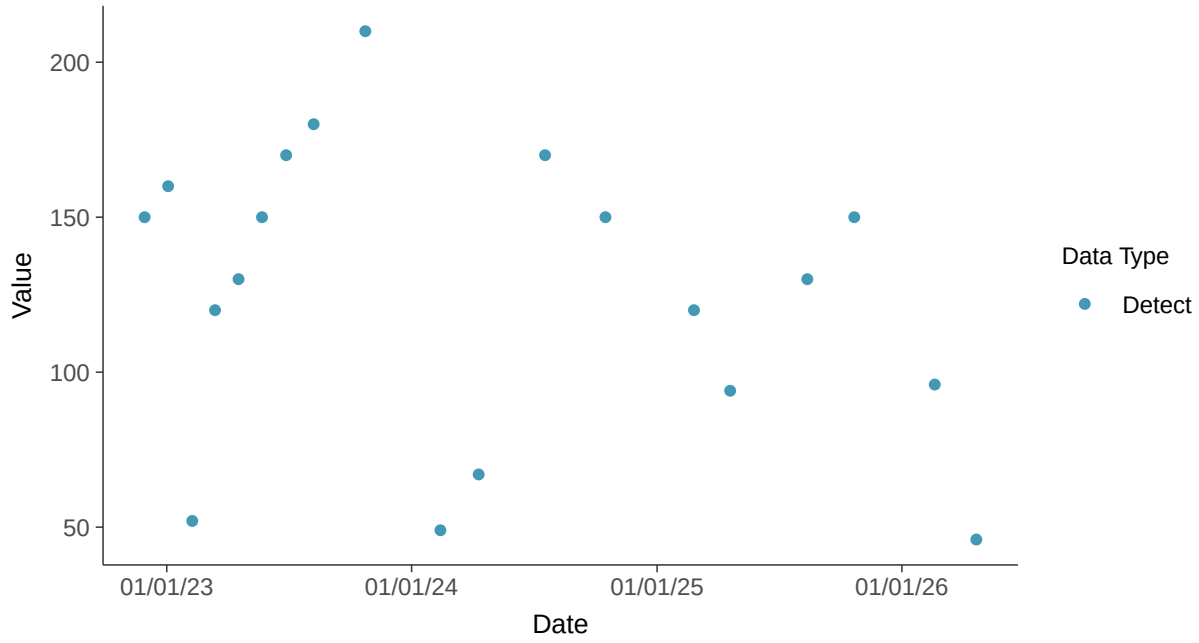


Appendix III: Chloride (as Cl), MW-01R

ID: 11_2_3_108

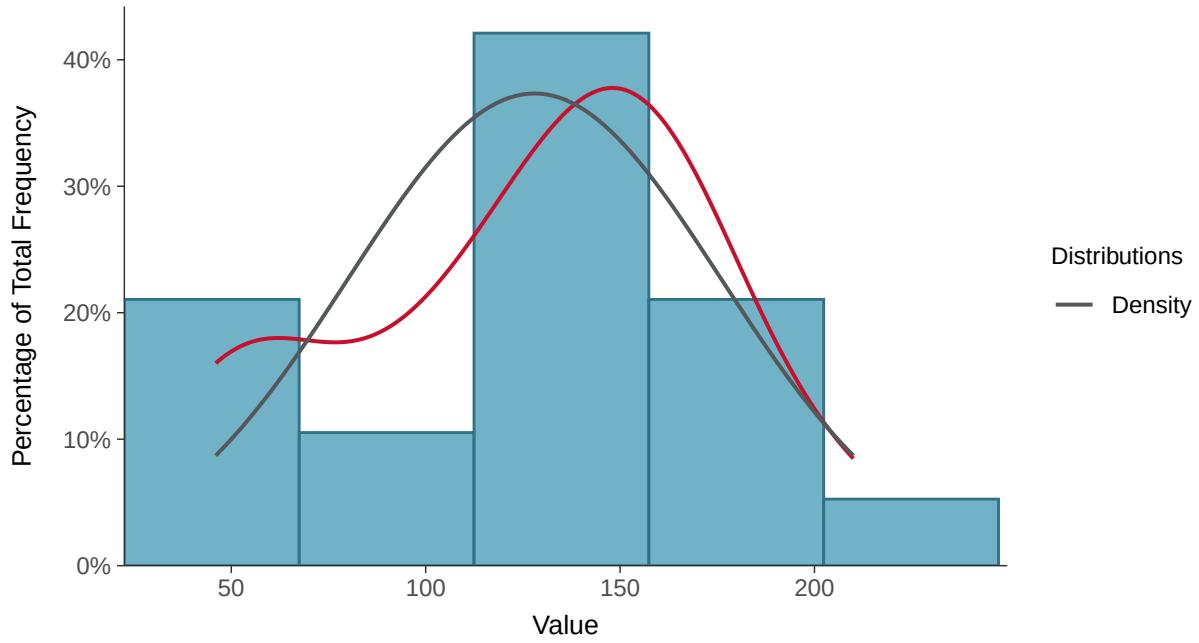
Scatter Plot

Chloride (as Cl), MW-01R (mg/L)



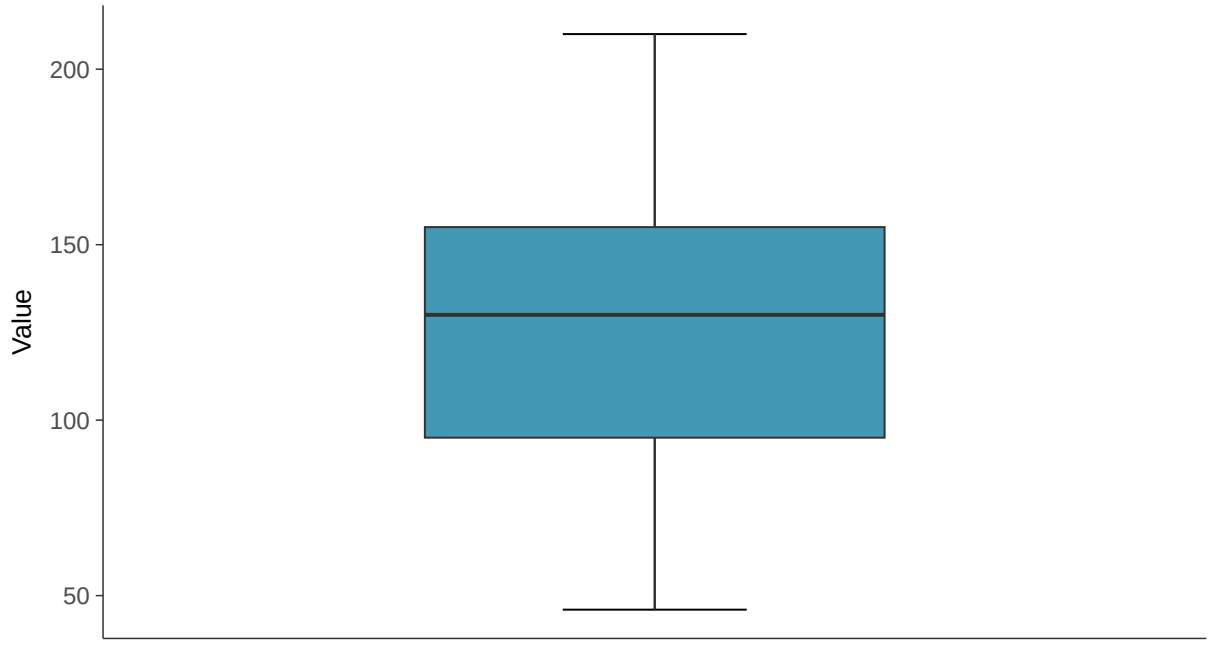
Histogram

Chloride (as Cl), MW-01R (mg/L)



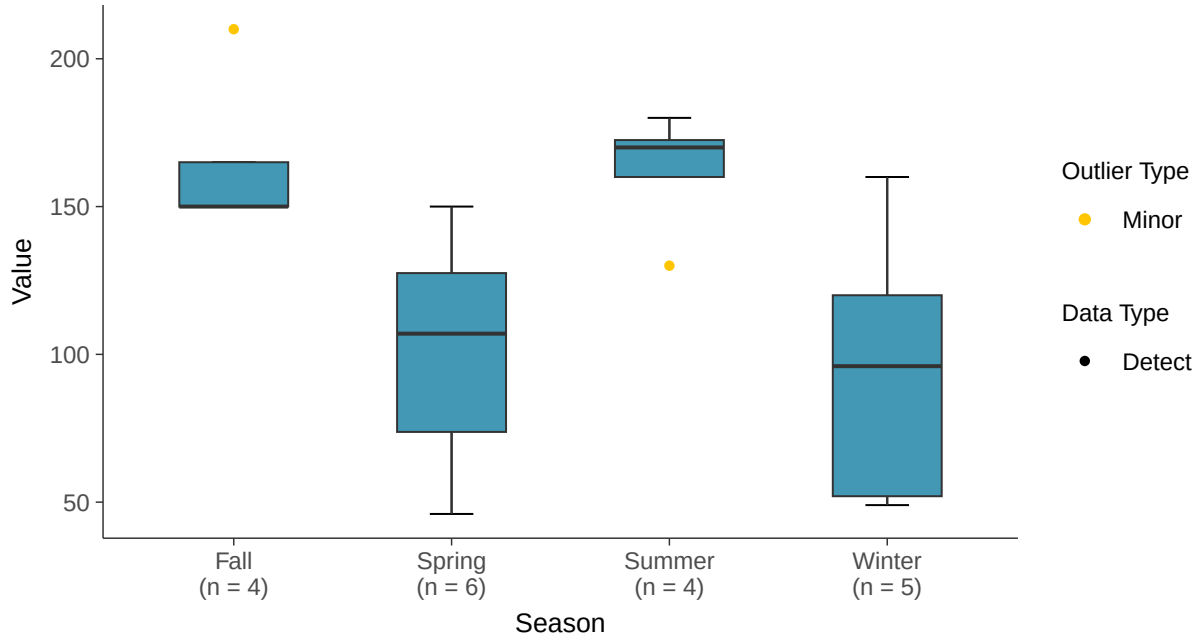
Boxplot

Chloride (as Cl), MW-01R (mg/L)



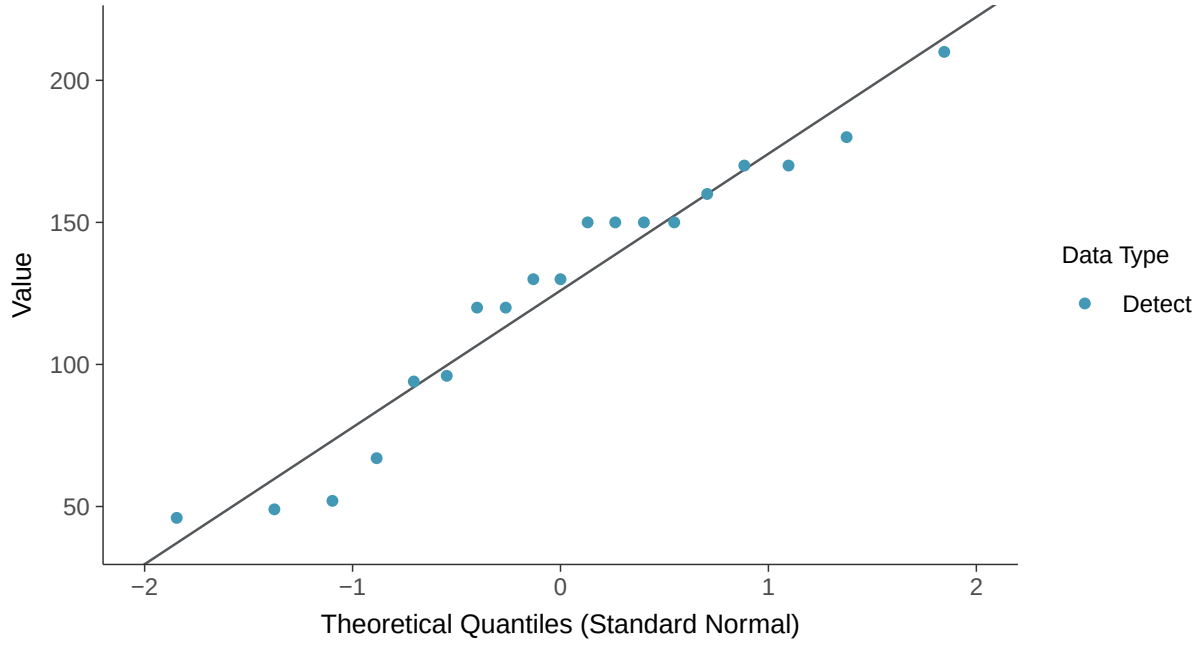
Boxplot by Season

Chloride (as Cl), MW-01R (mg/L)



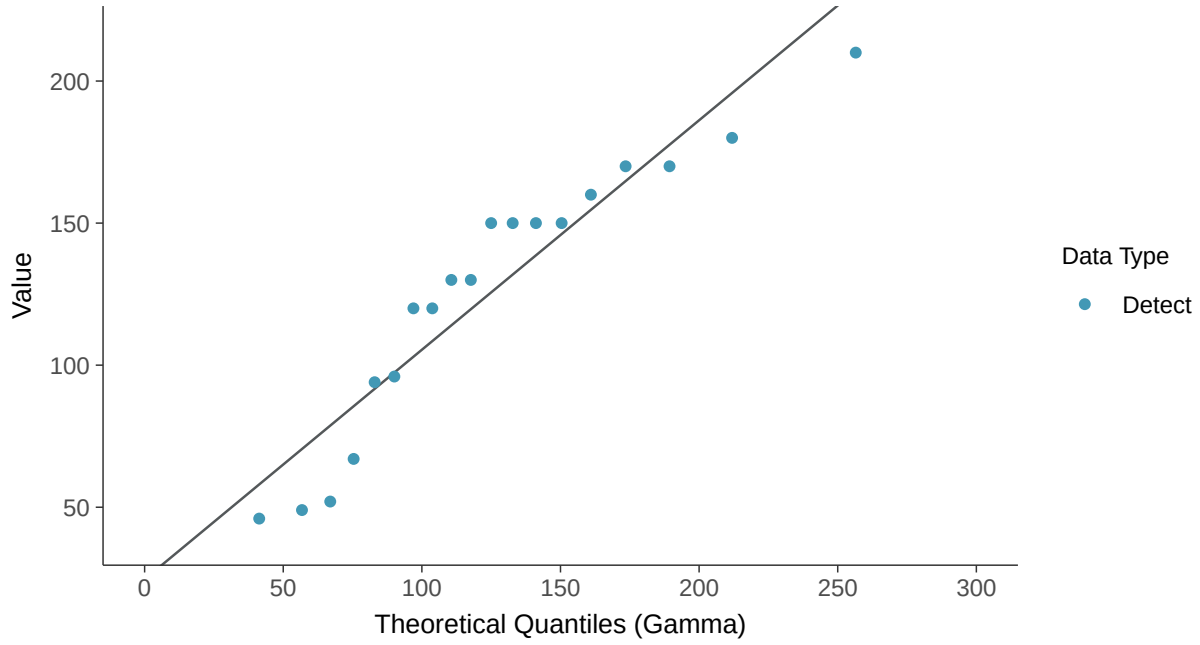
Normal Q-Q plot

Chloride (as Cl), MW-01R (mg/L)



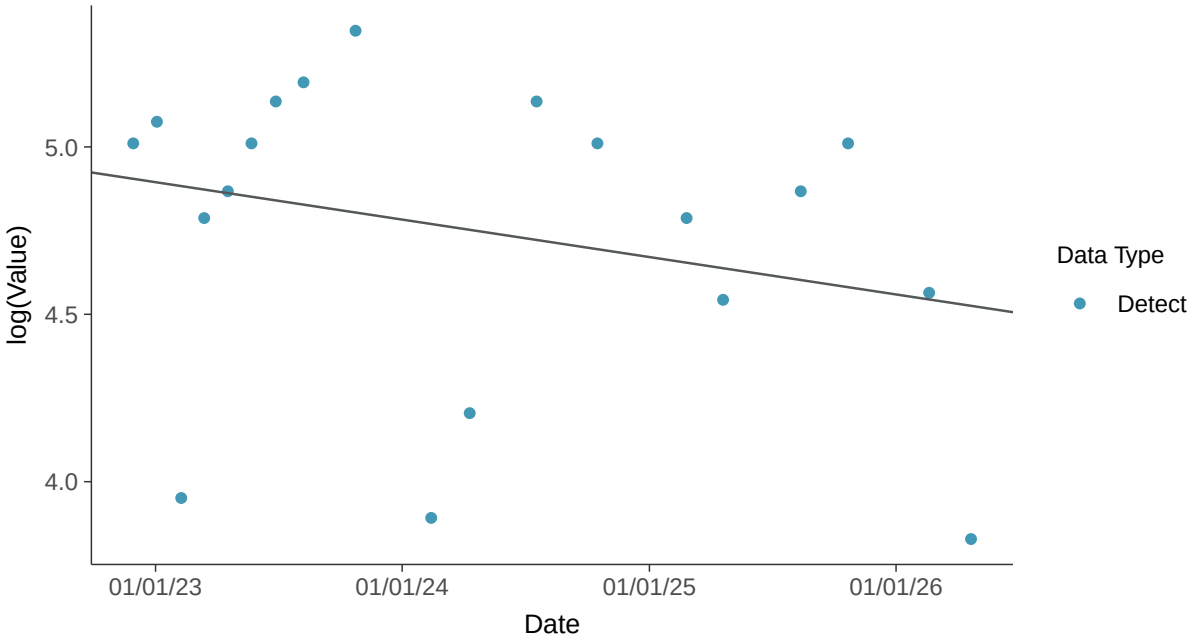
Gamma Q-Q plot

Chloride (as Cl), MW-01R (mg/L)



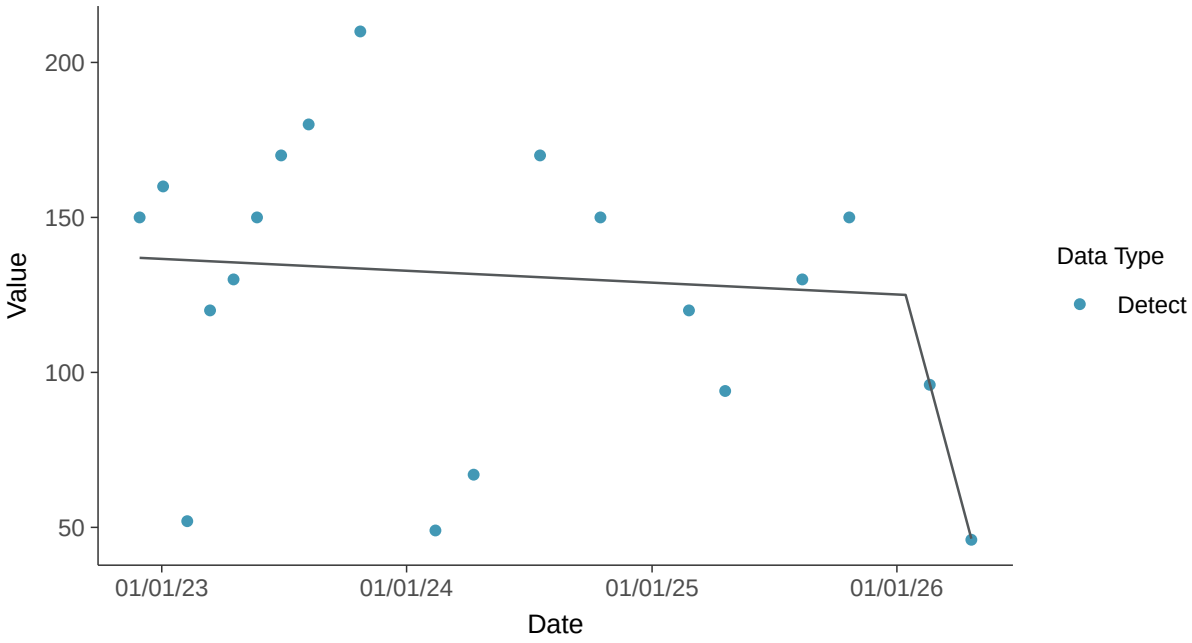
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-01R (mg/L)



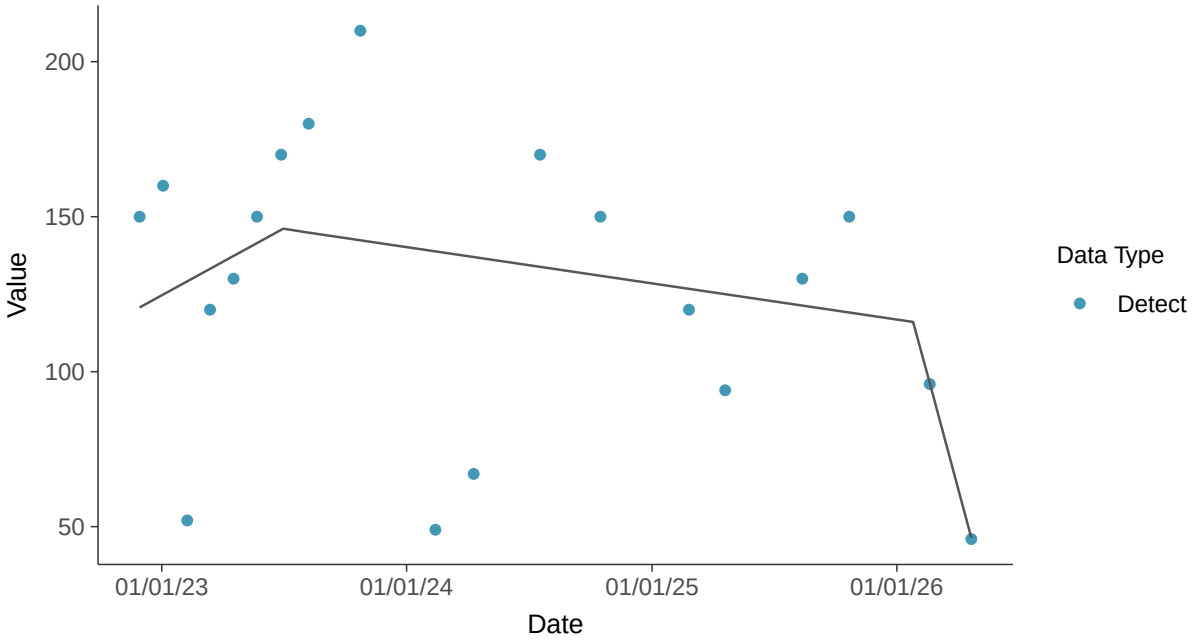
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-01R (mg/L)



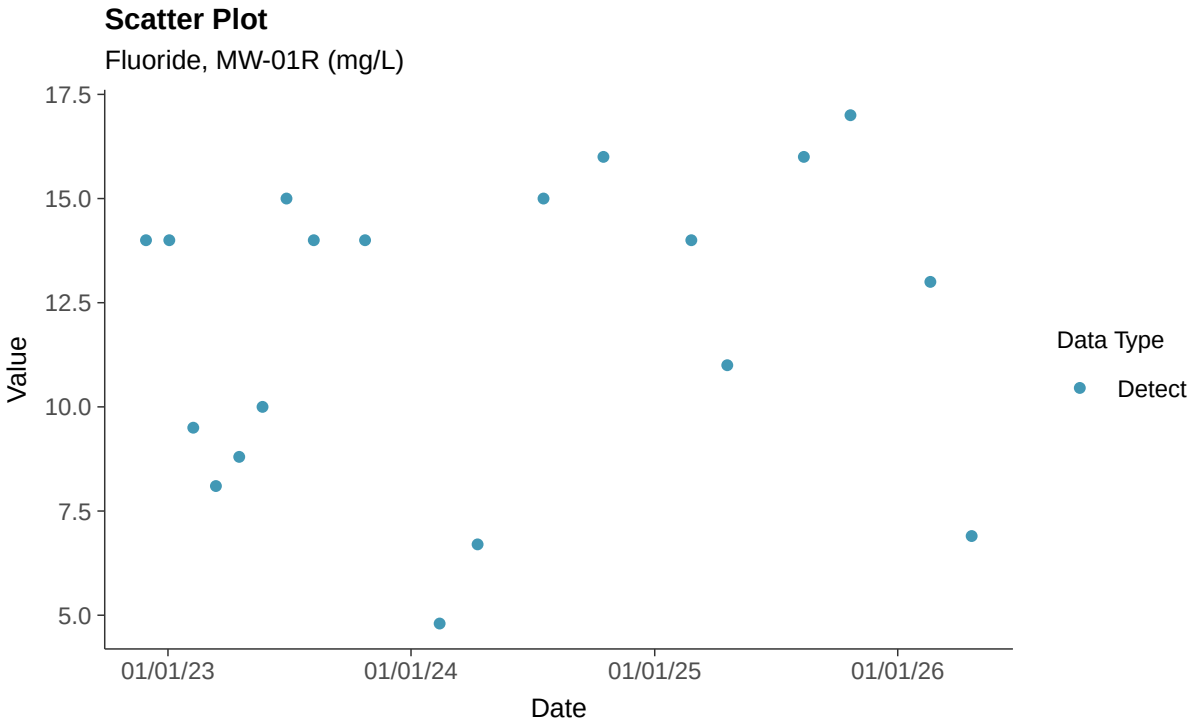
Trend Regression: Piecewise Linear-Linear-Linear

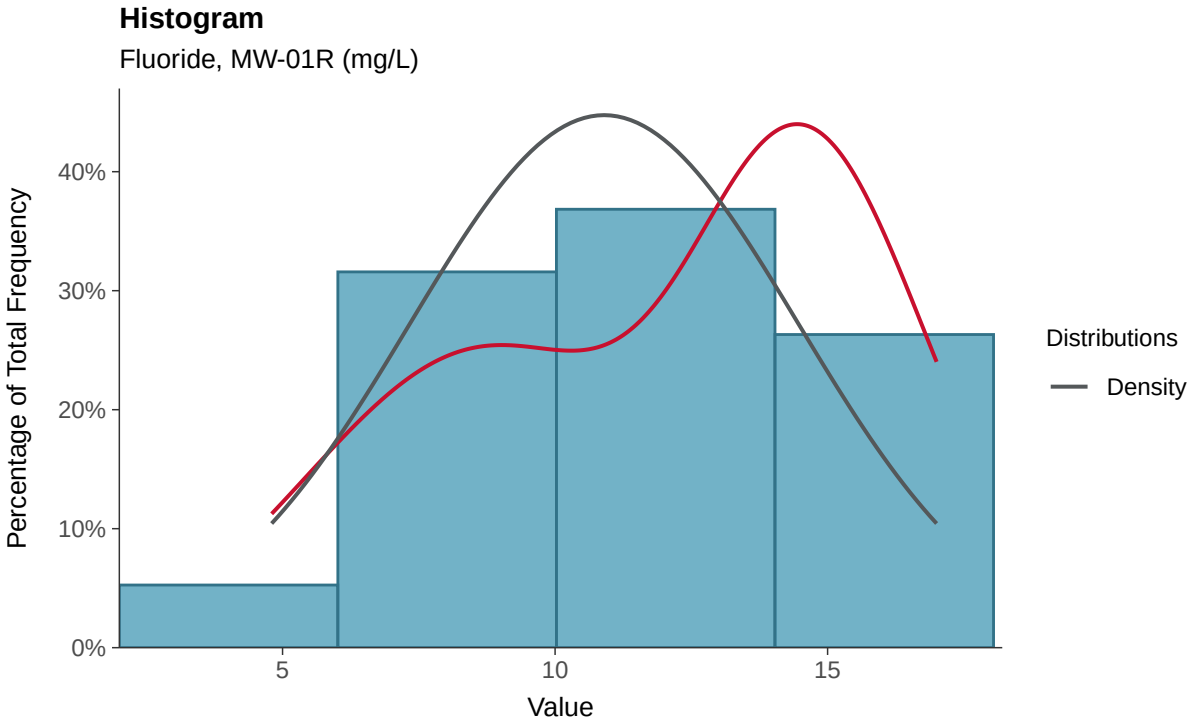
Chloride (as Cl), MW-01R (mg/L)



Appendix III: Fluoride, MW-01R

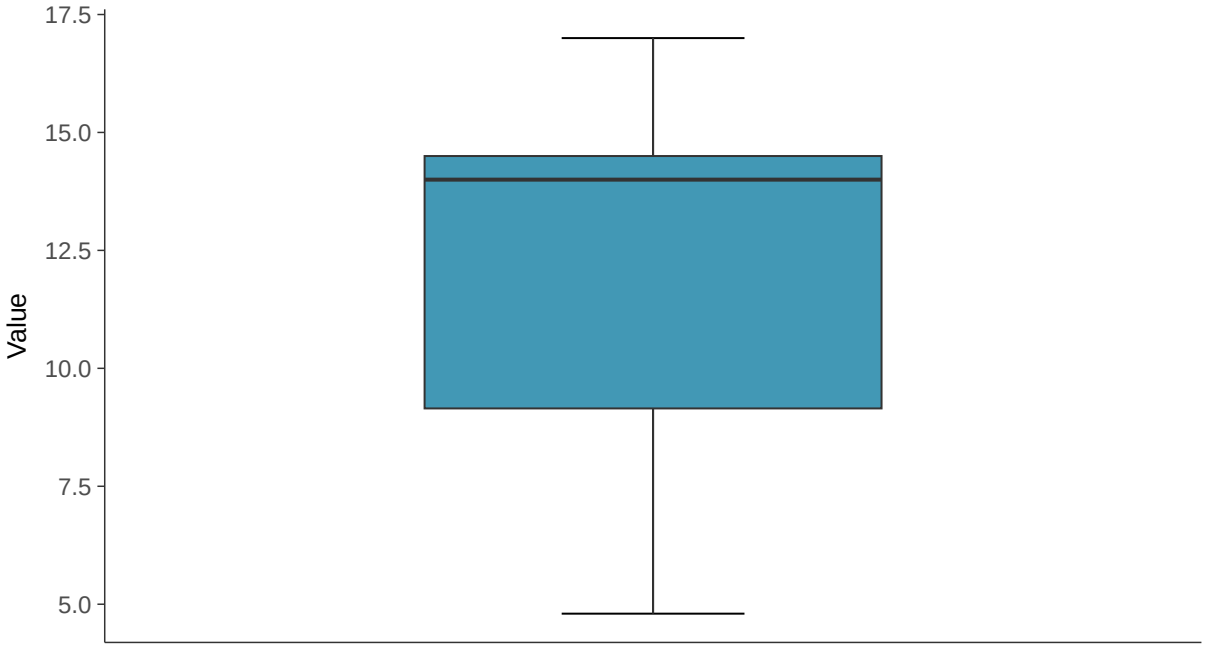
ID: 11_2_3_112





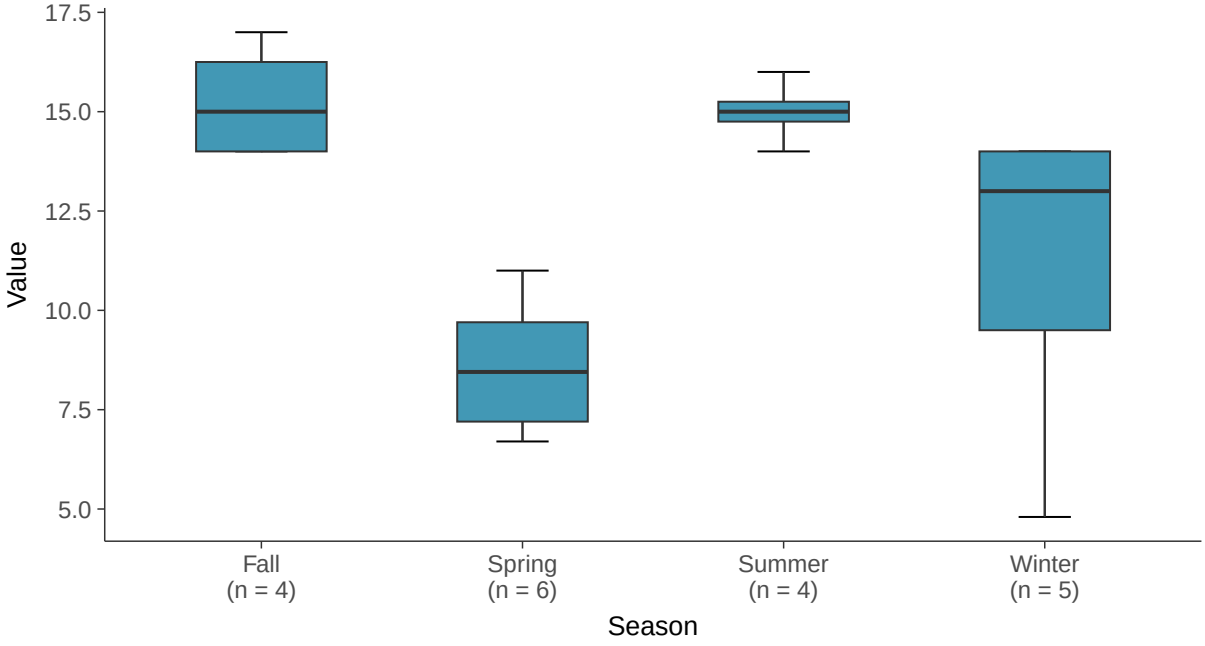
Boxplot

Fluoride, MW-01R (mg/L)



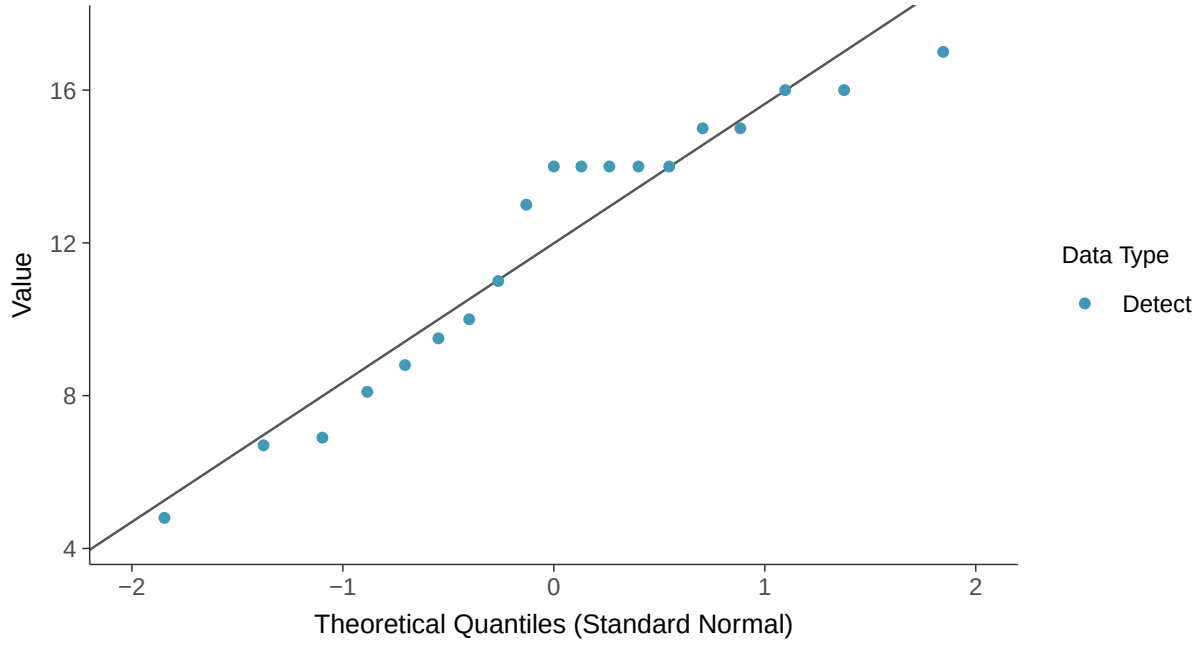
Boxplot by Season

Fluoride, MW-01R (mg/L)



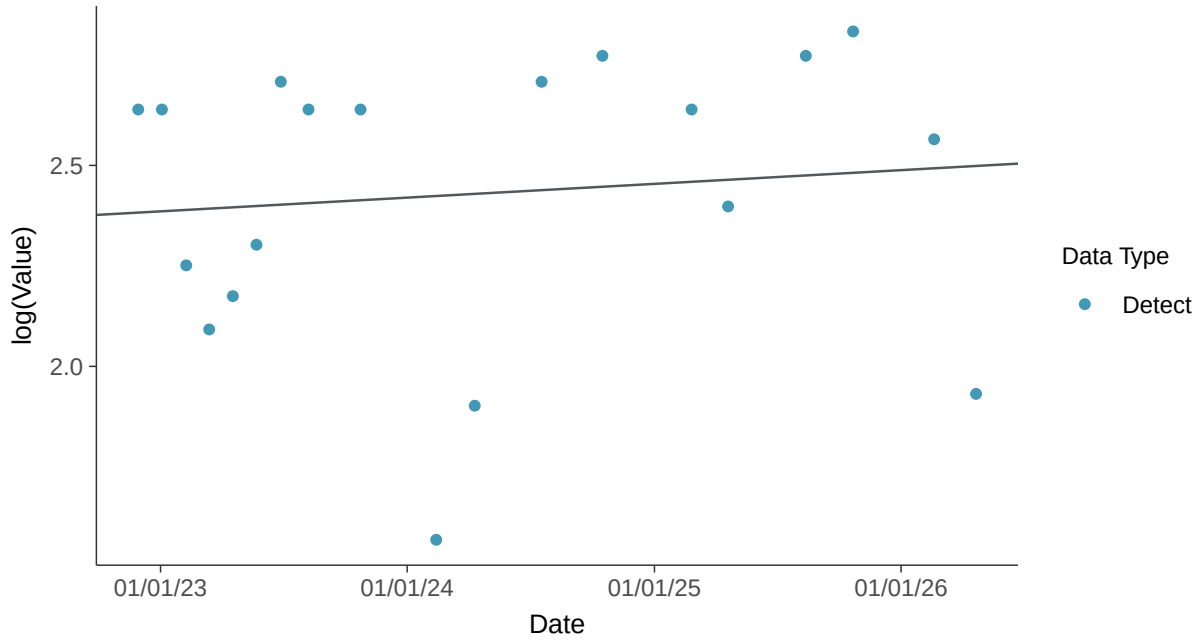
Normal Q-Q plot

Fluoride, MW-01R (mg/L)



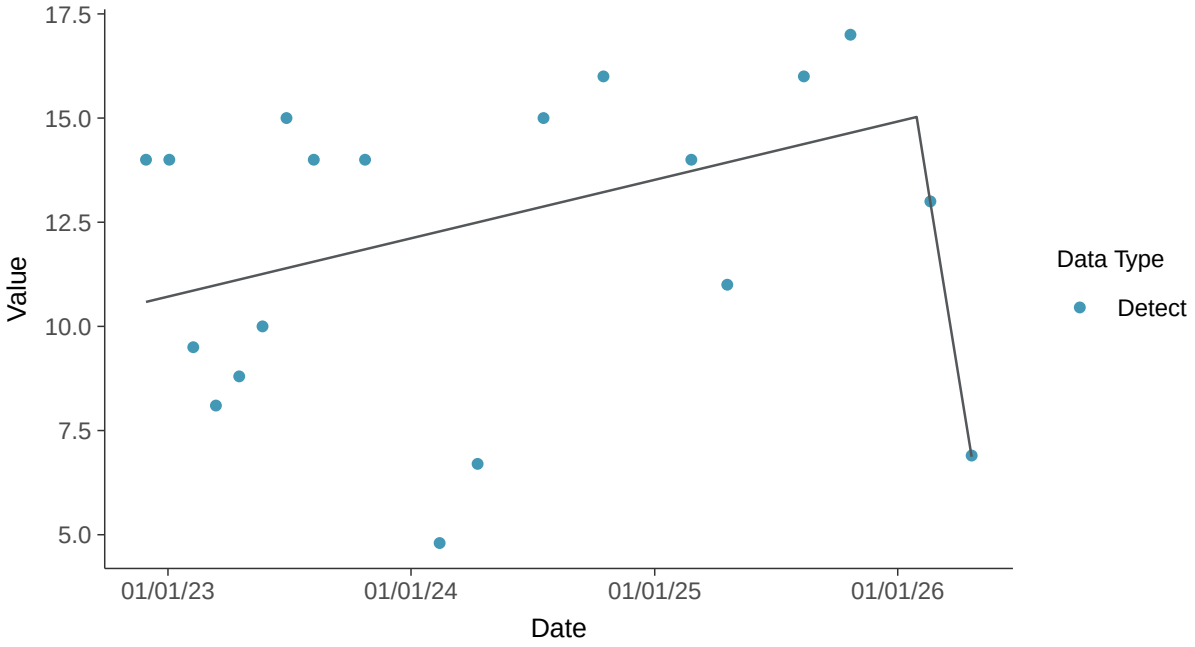
Trend Regression: Lognormal MLE

Fluoride, MW-01R (mg/L)



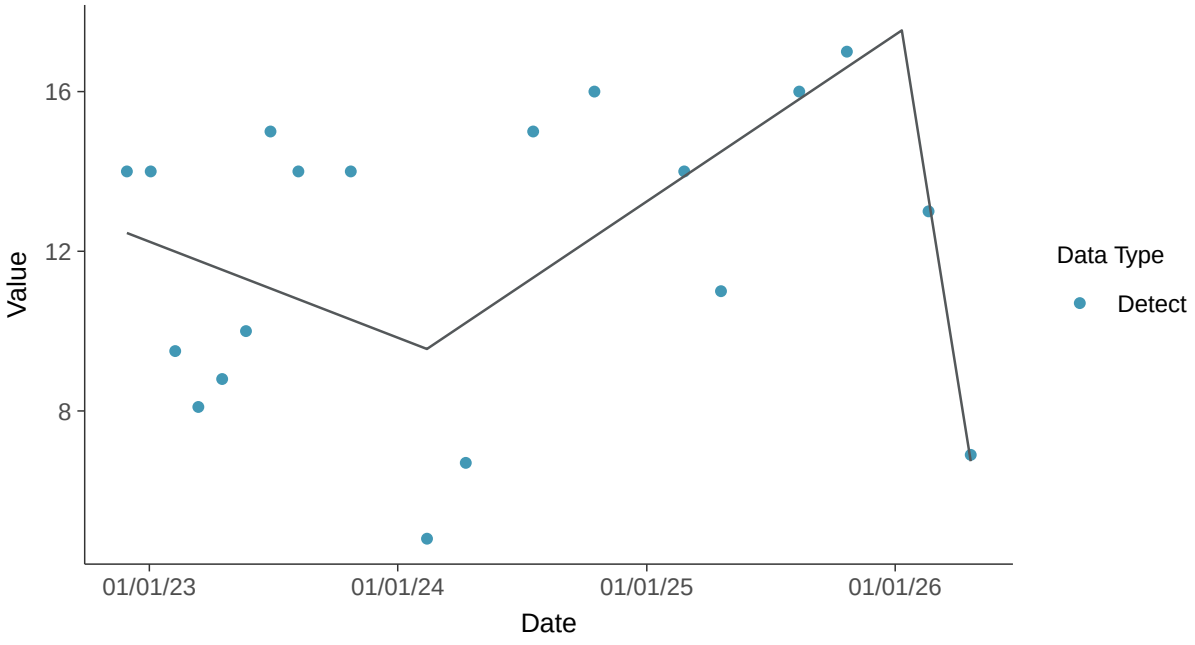
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-01R (mg/L)

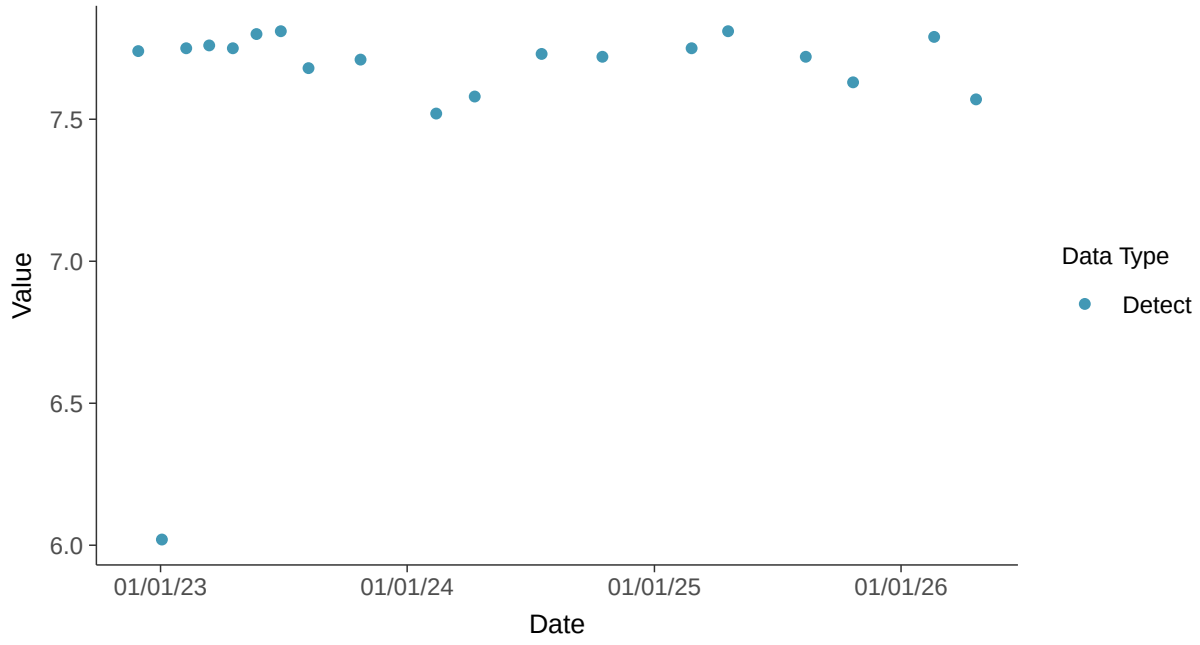


Appendix III: pH (field), MW-01R

ID: 11_2_3_120

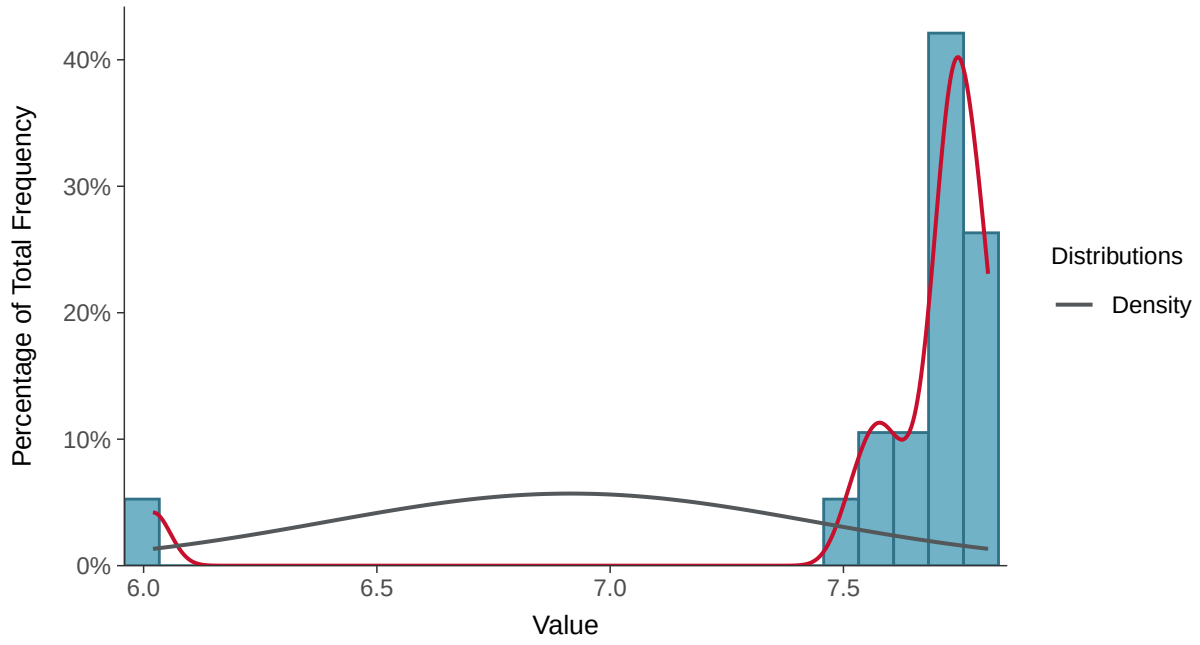
Scatter Plot

pH (field), MW-01R (su)



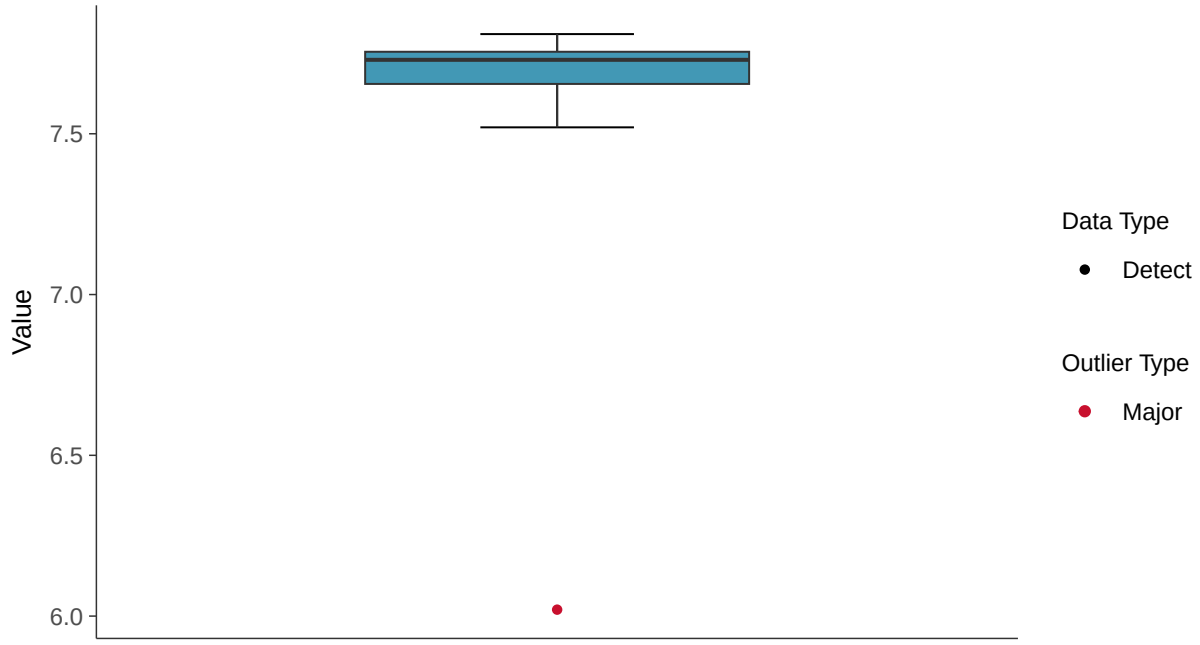
Histogram

pH (field), MW-01R (su)



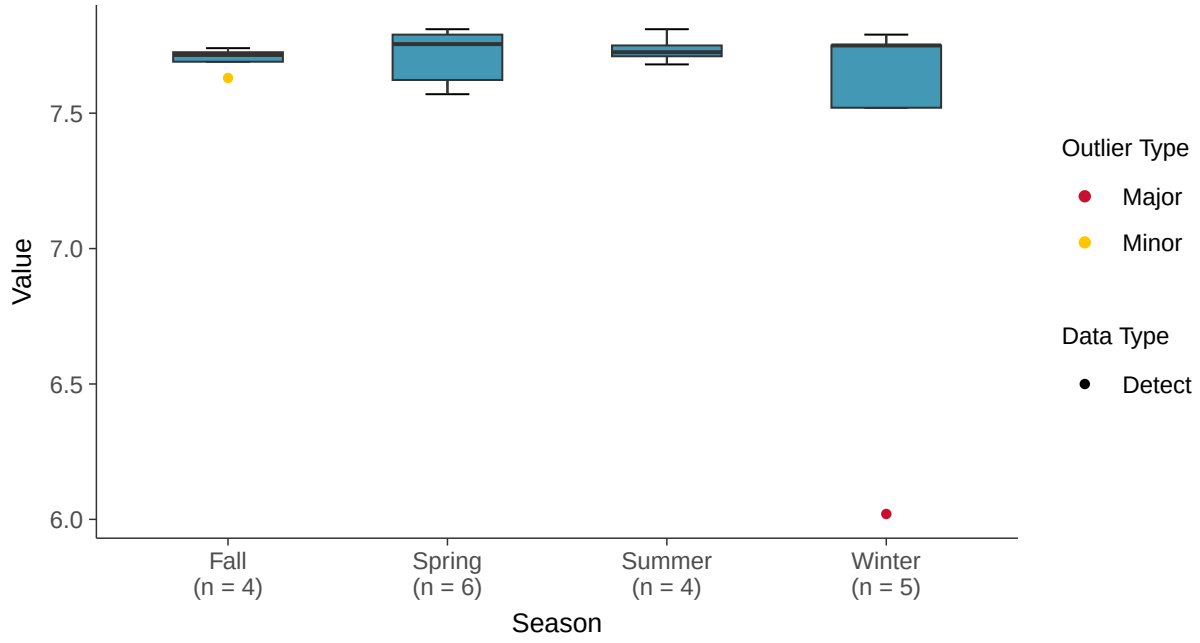
Boxplot

pH (field), MW-01R (su)



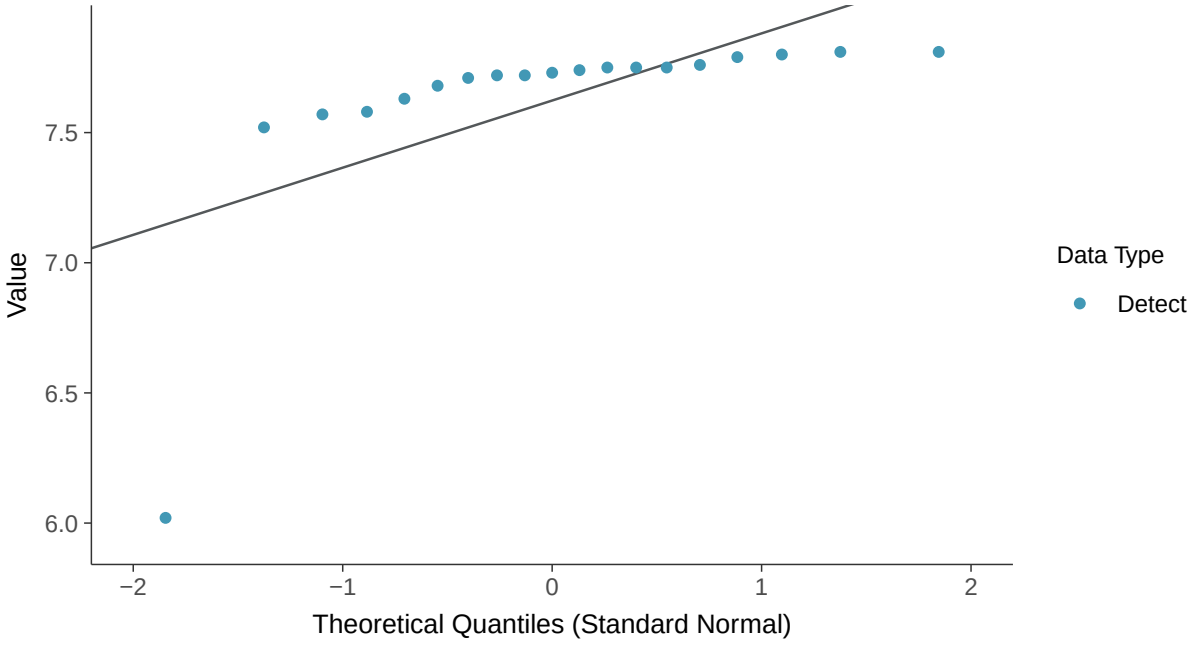
Boxplot by Season

pH (field), MW-01R (su)



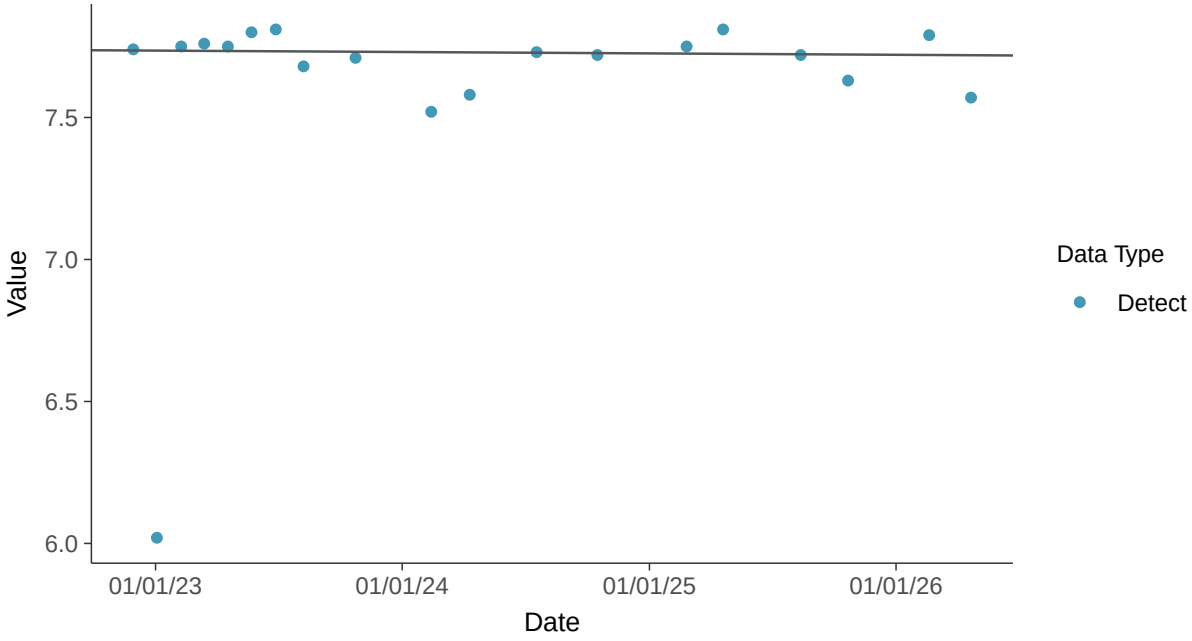
Normal Q-Q plot

pH (field), MW-01R (su)



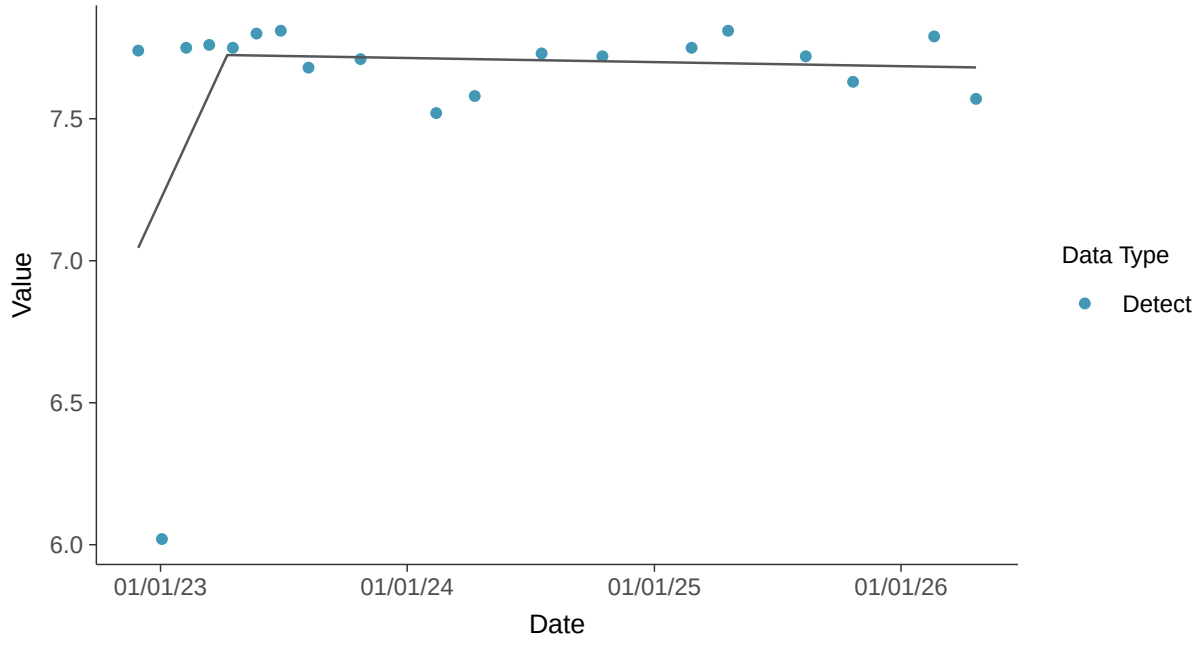
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-01R (su)



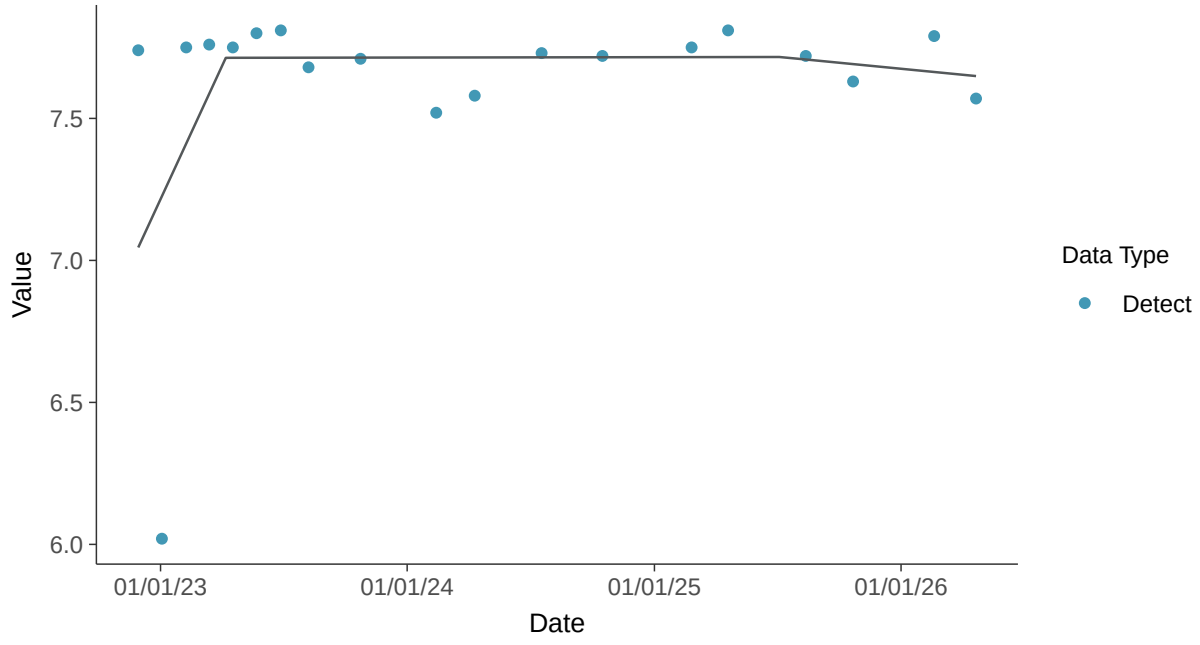
Trend Regression: Piecewise Linear-Linear

pH (field), MW-01R (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-01R (su)

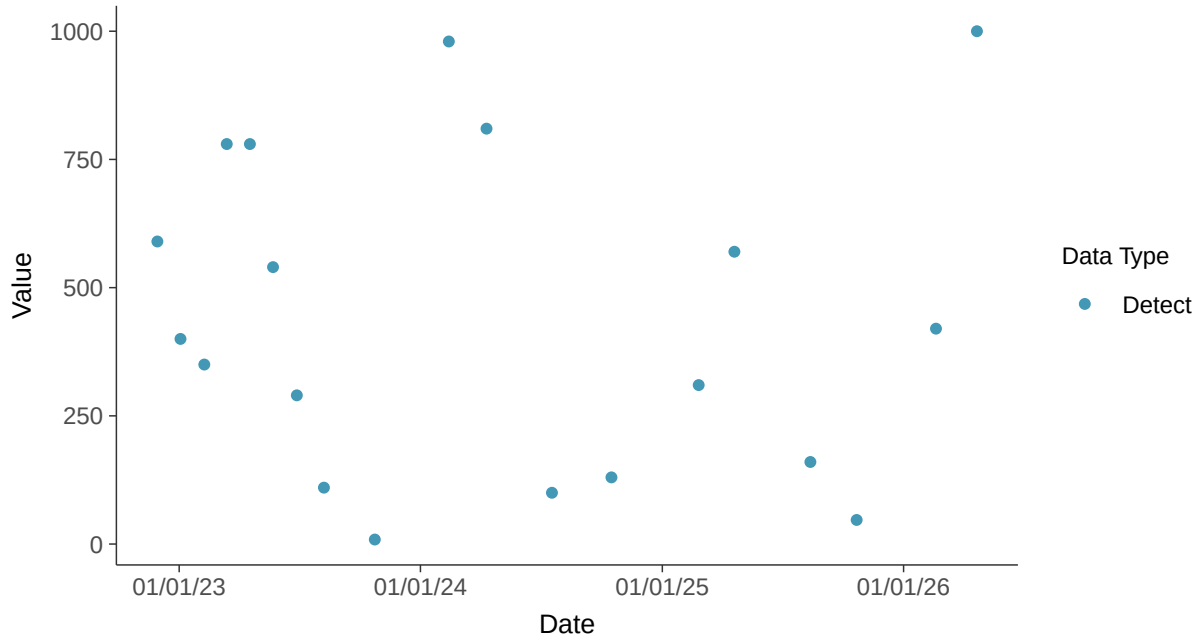


Appendix III: Sulfate (as SO4), MW-01R

ID: 11_2_3_124

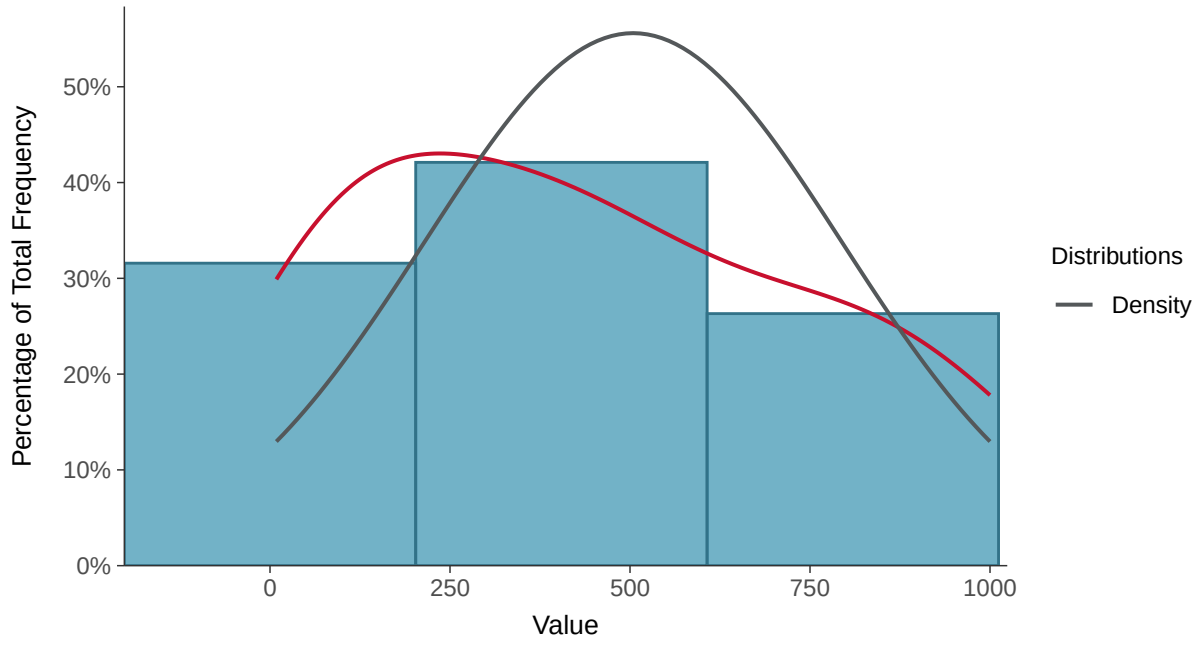
Scatter Plot

Sulfate (as SO4), MW-01R (mg/L)



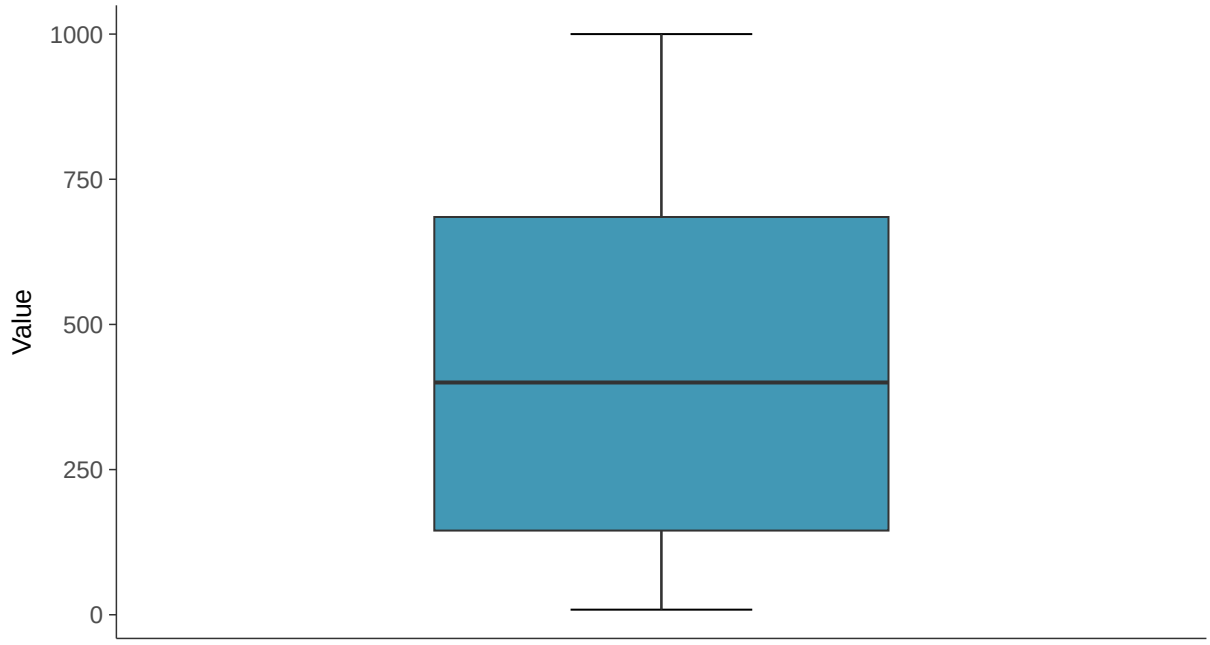
Histogram

Sulfate (as SO4), MW-01R (mg/L)



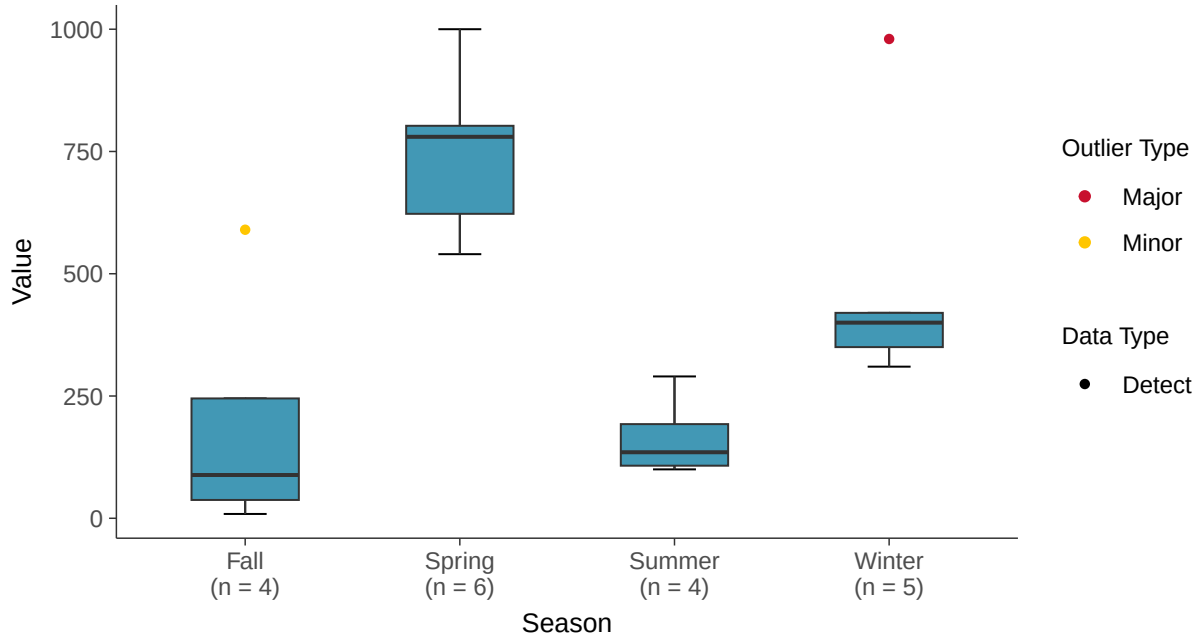
Boxplot

Sulfate (as SO4), MW-01R (mg/L)



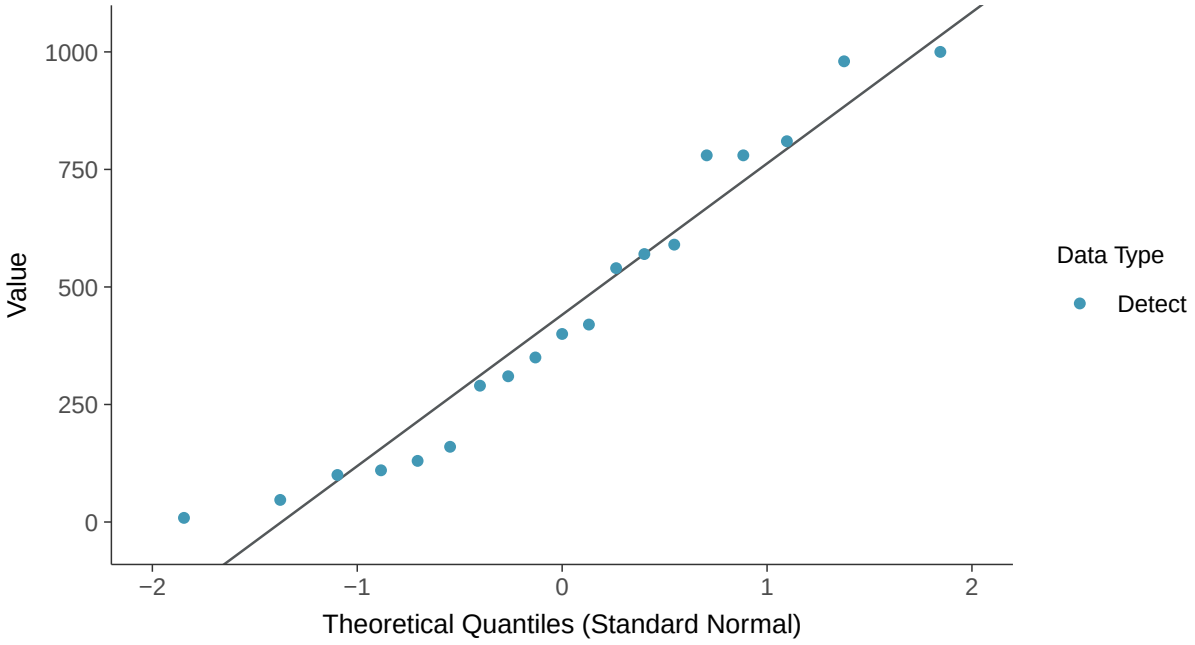
Boxplot by Season

Sulfate (as SO4), MW-01R (mg/L)



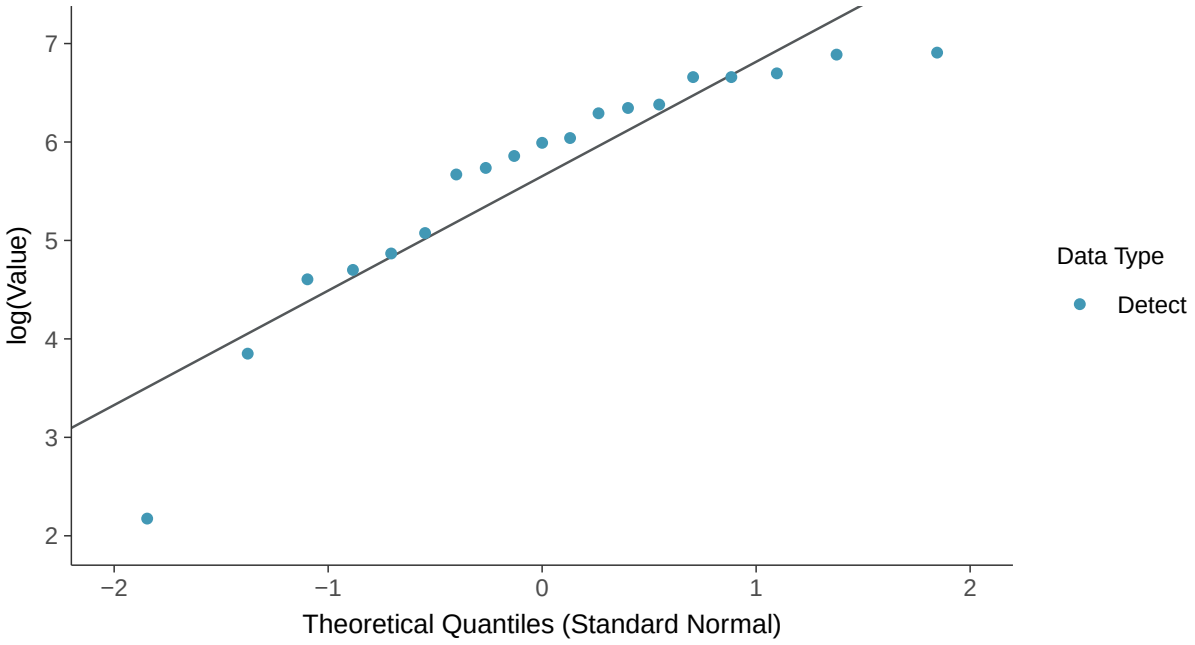
Normal Q-Q plot

Sulfate (as SO4), MW-01R (mg/L)



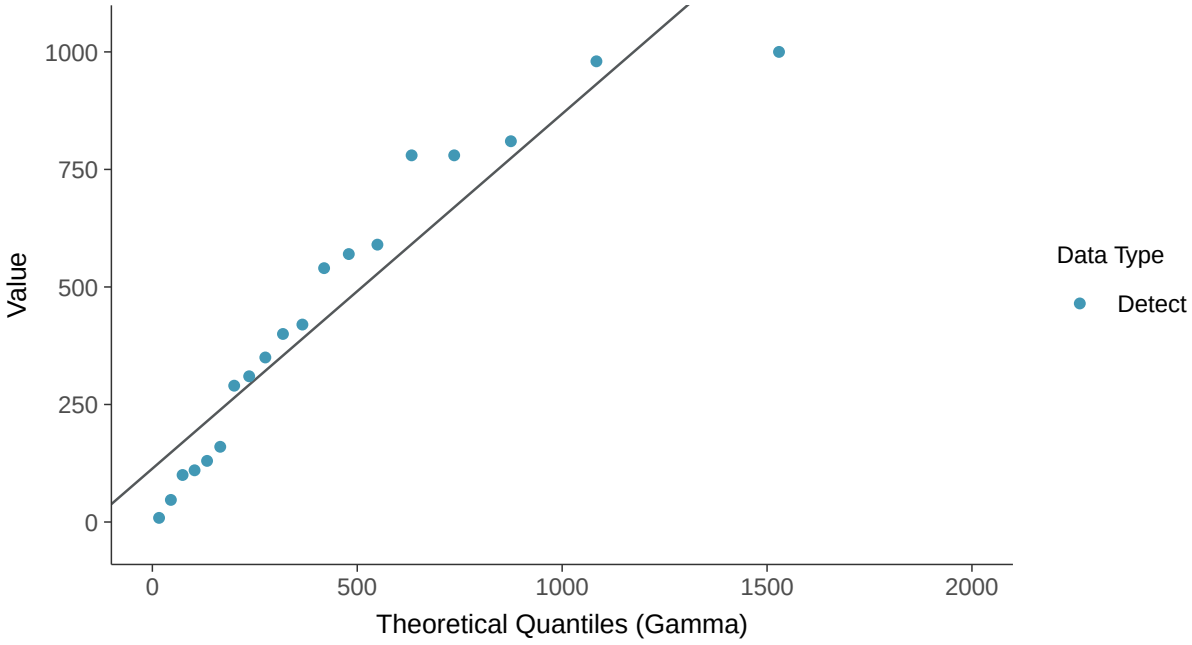
Lognormal Q-Q plot

Sulfate (as SO4), MW-01R (mg/L)



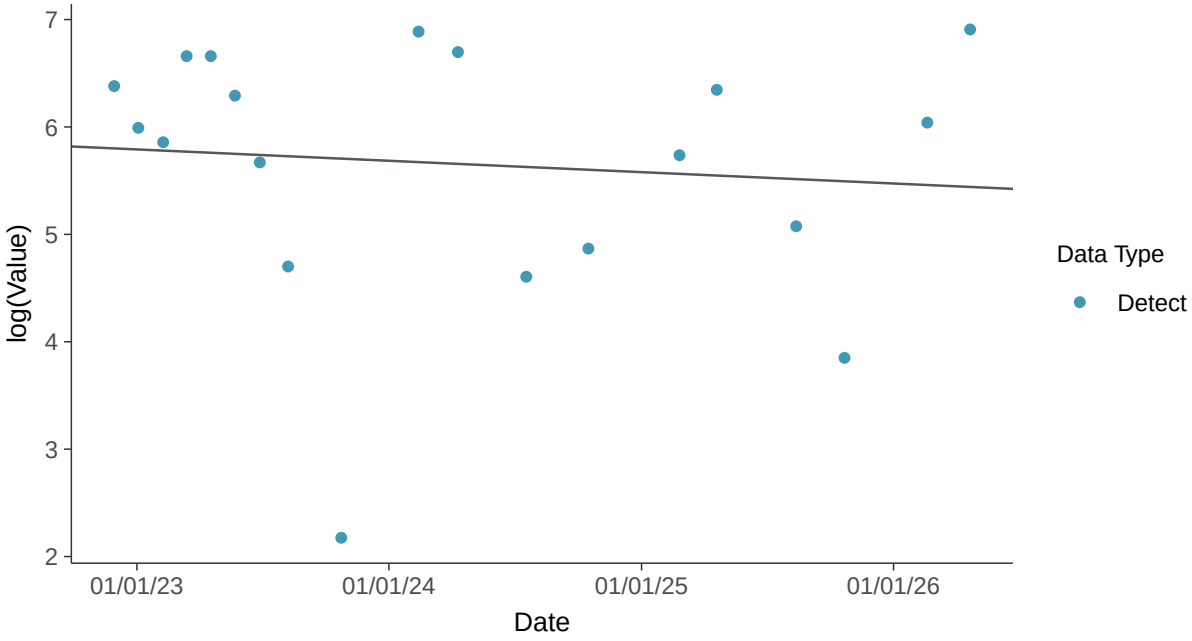
Gamma Q-Q plot

Sulfate (as SO4), MW-01R (mg/L)



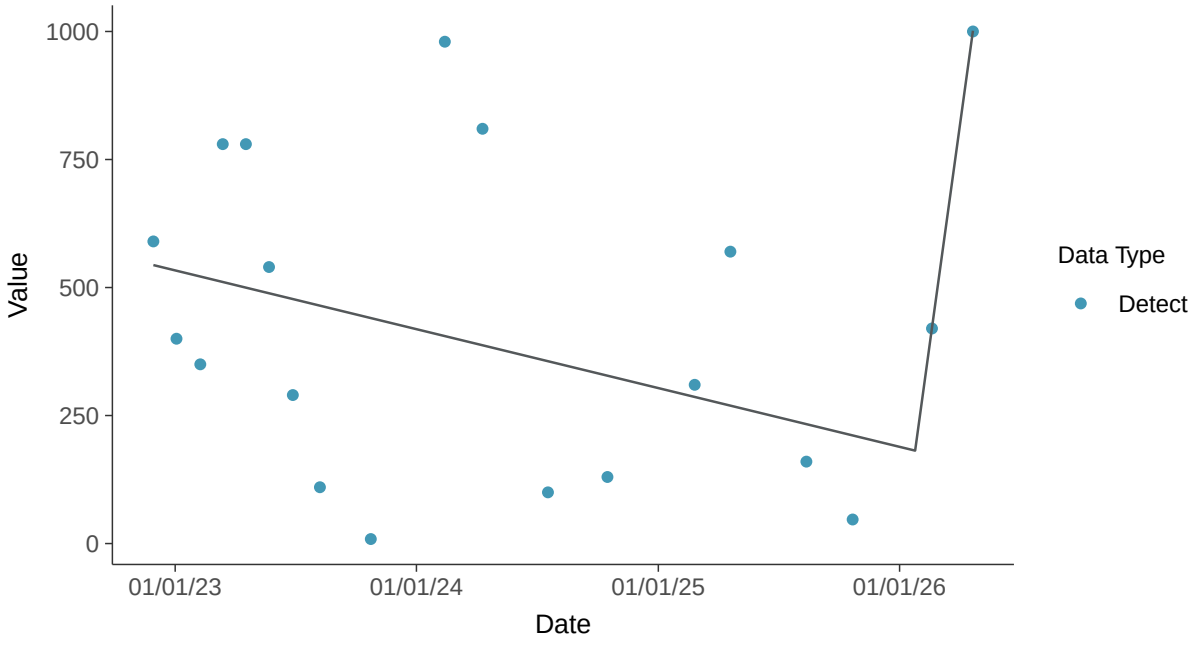
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-01R (mg/L)



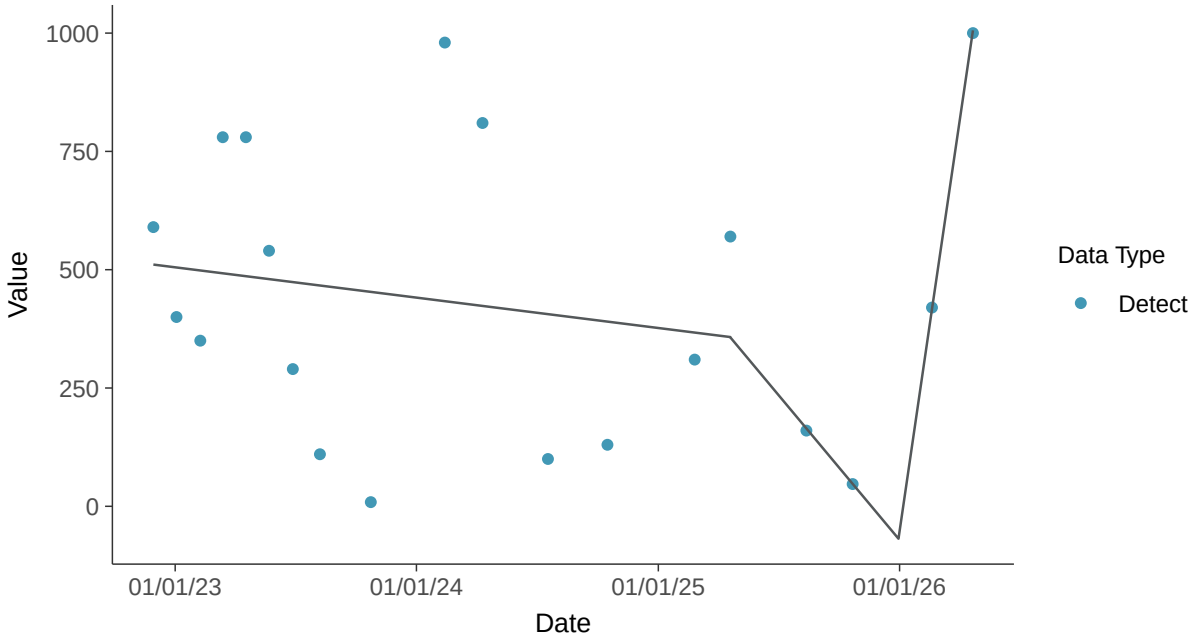
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-01R (mg/L)

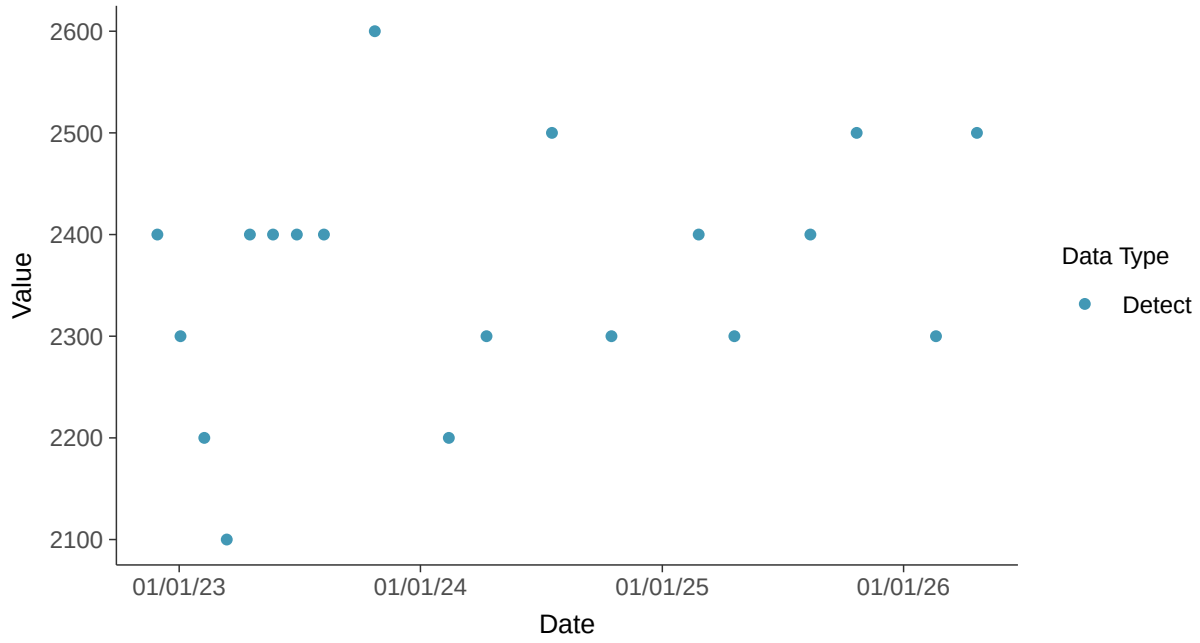


Appendix III: Total Dissolved Solids, MW-01R

ID: 11_2_3_126

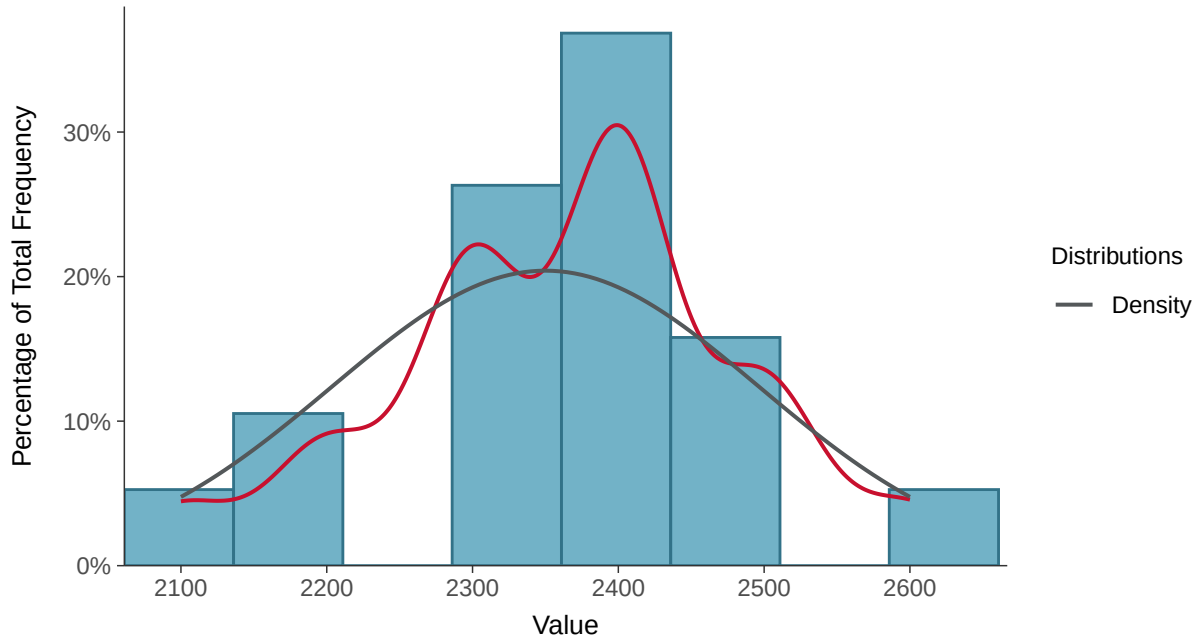
Scatter Plot

Total Dissolved Solids, MW-01R (mg/L)



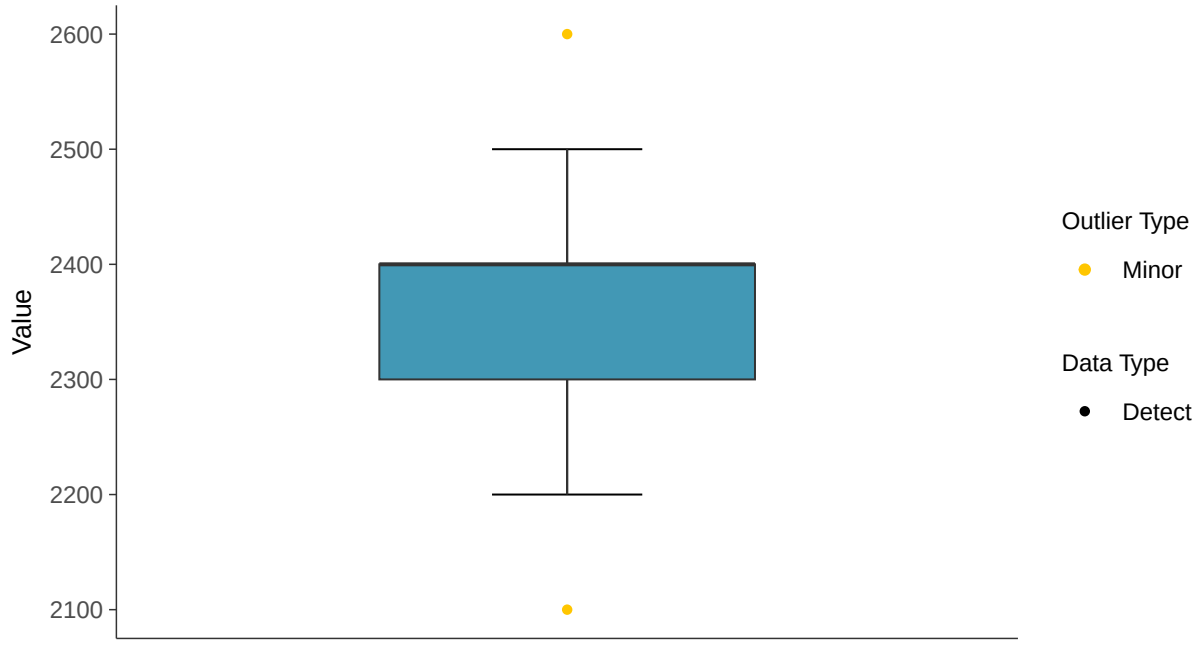
Histogram

Total Dissolved Solids, MW-01R (mg/L)



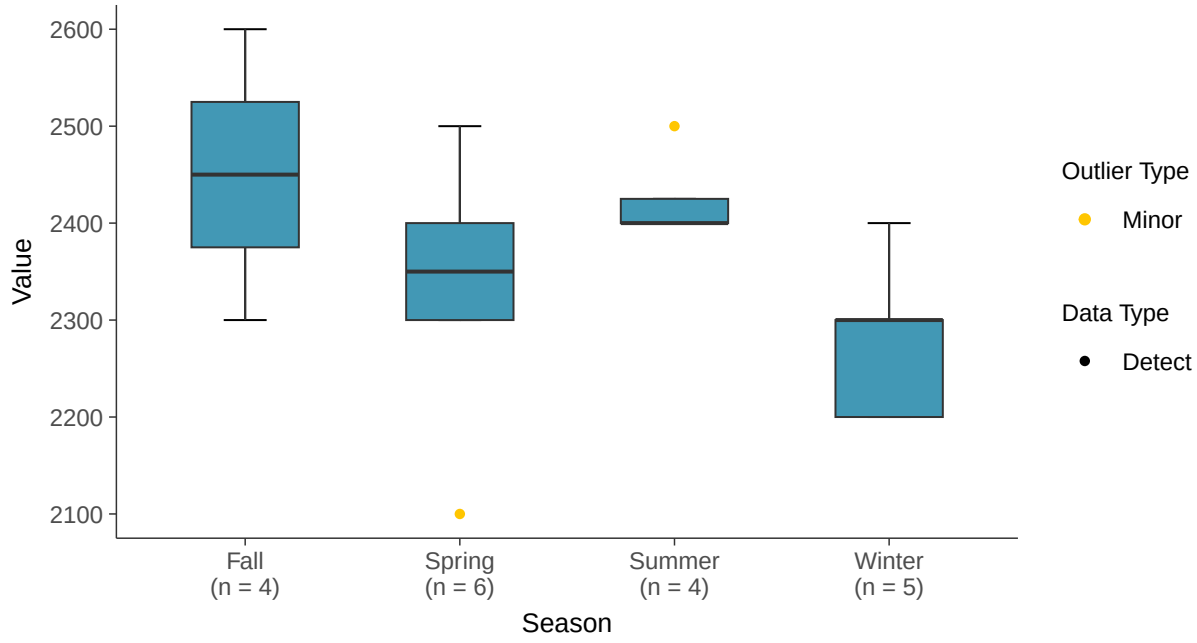
Boxplot

Total Dissolved Solids, MW-01R (mg/L)



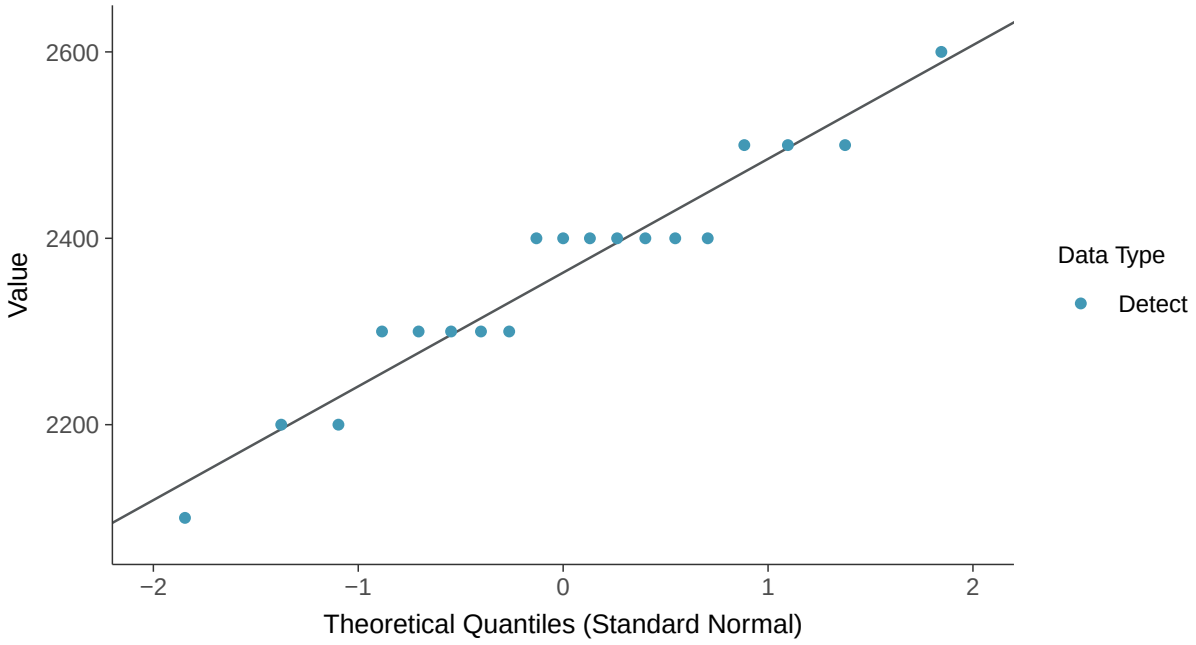
Boxplot by Season

Total Dissolved Solids, MW-01R (mg/L)



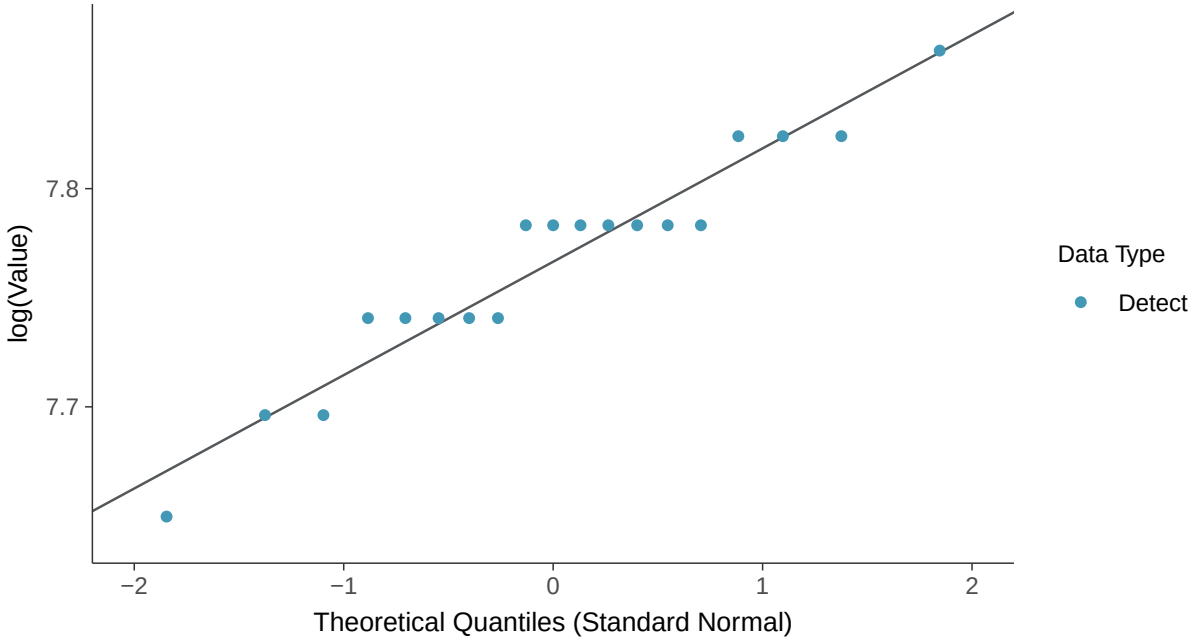
Normal Q-Q plot

Total Dissolved Solids, MW-01R (mg/L)



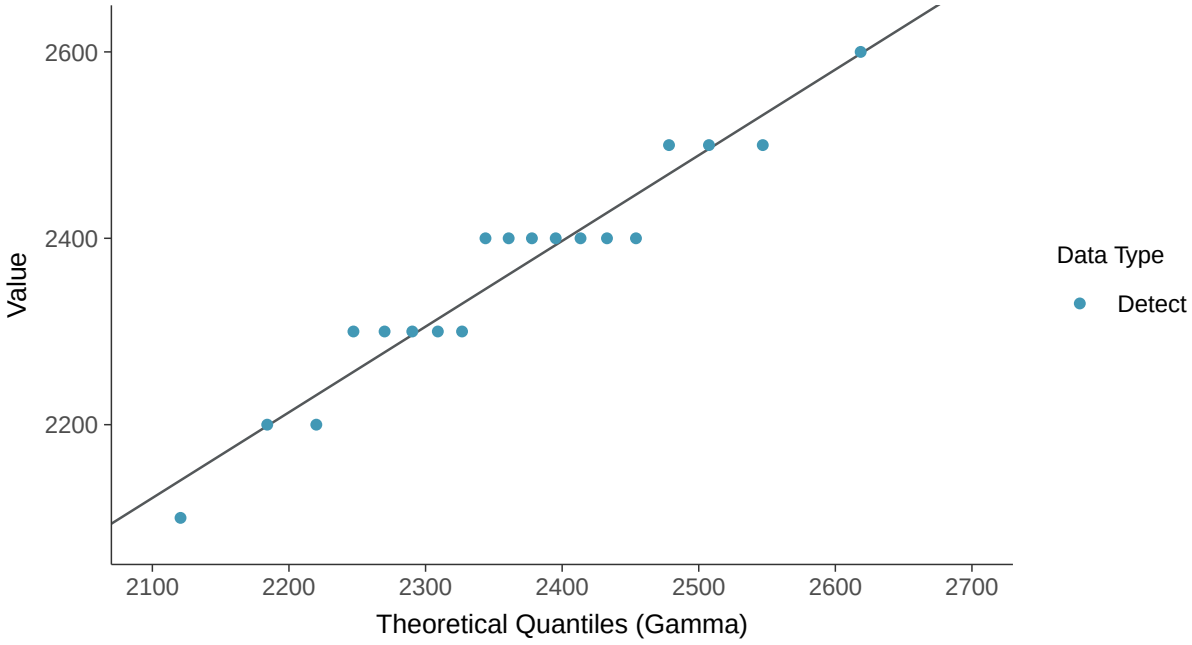
Lognormal Q-Q plot

Total Dissolved Solids, MW-01R (mg/L)



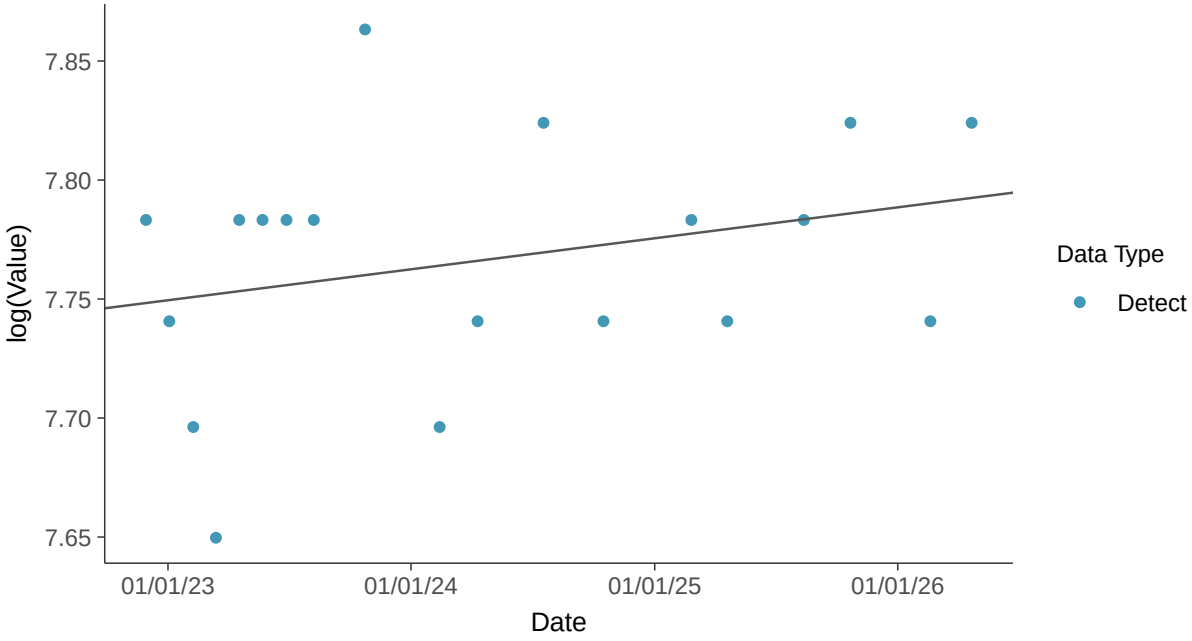
Gamma Q-Q plot

Total Dissolved Solids, MW-01R (mg/L)



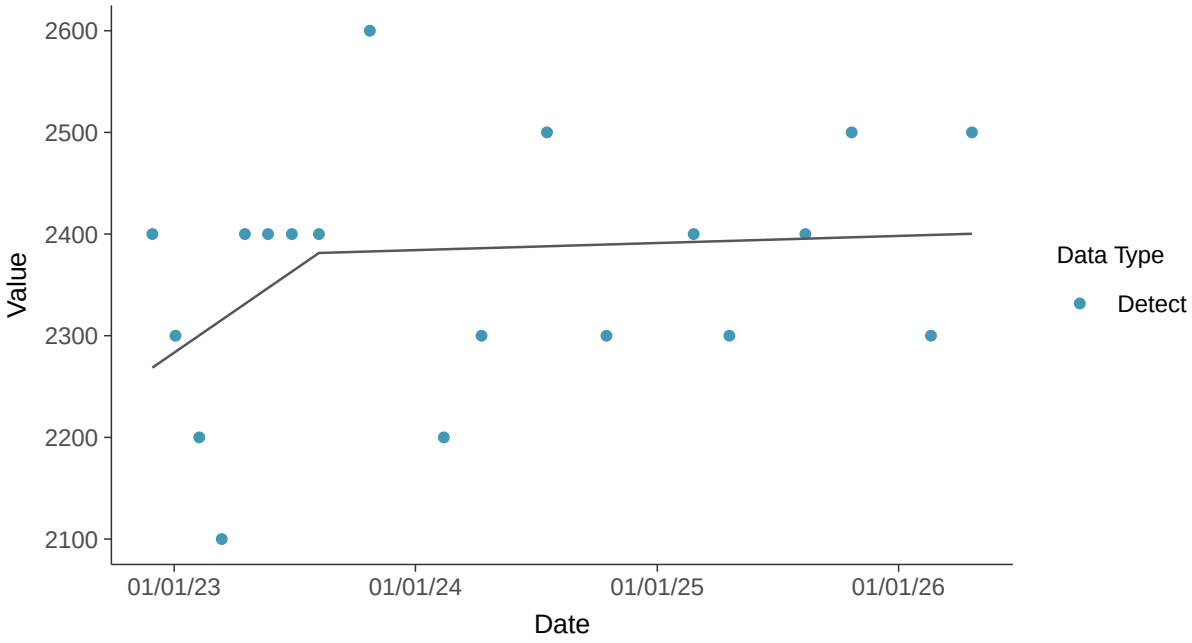
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-01R (mg/L)



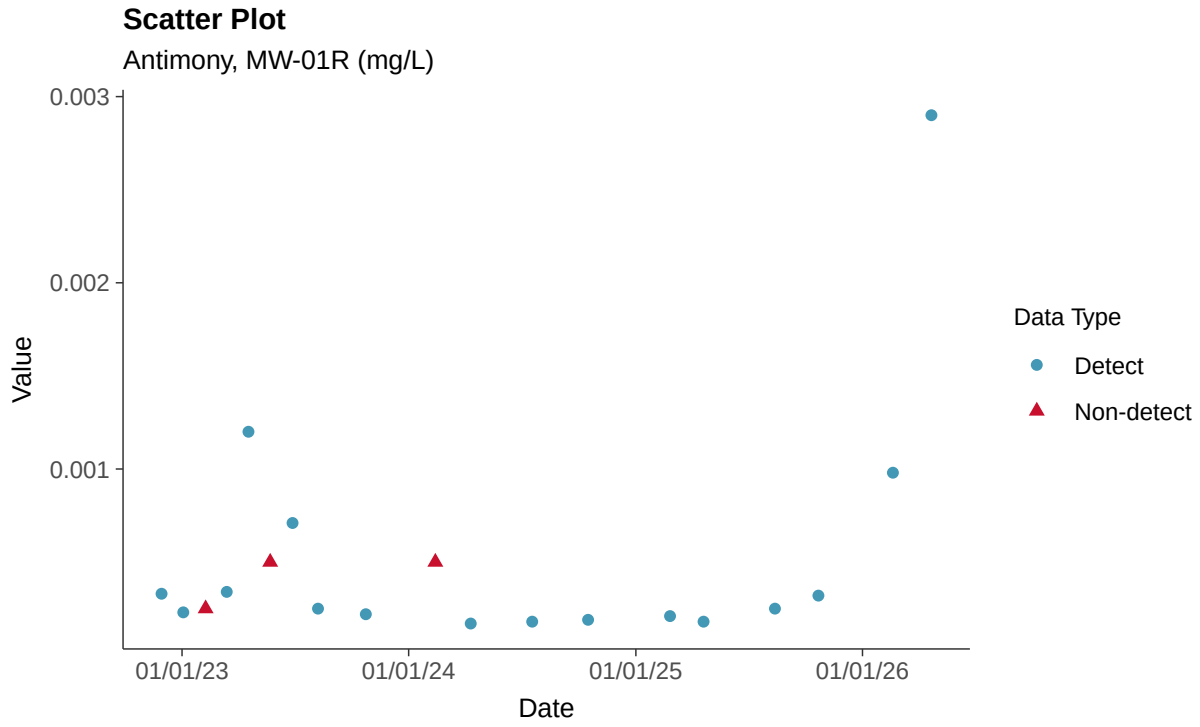
Trend Regression: Piecewise Linear-Linear

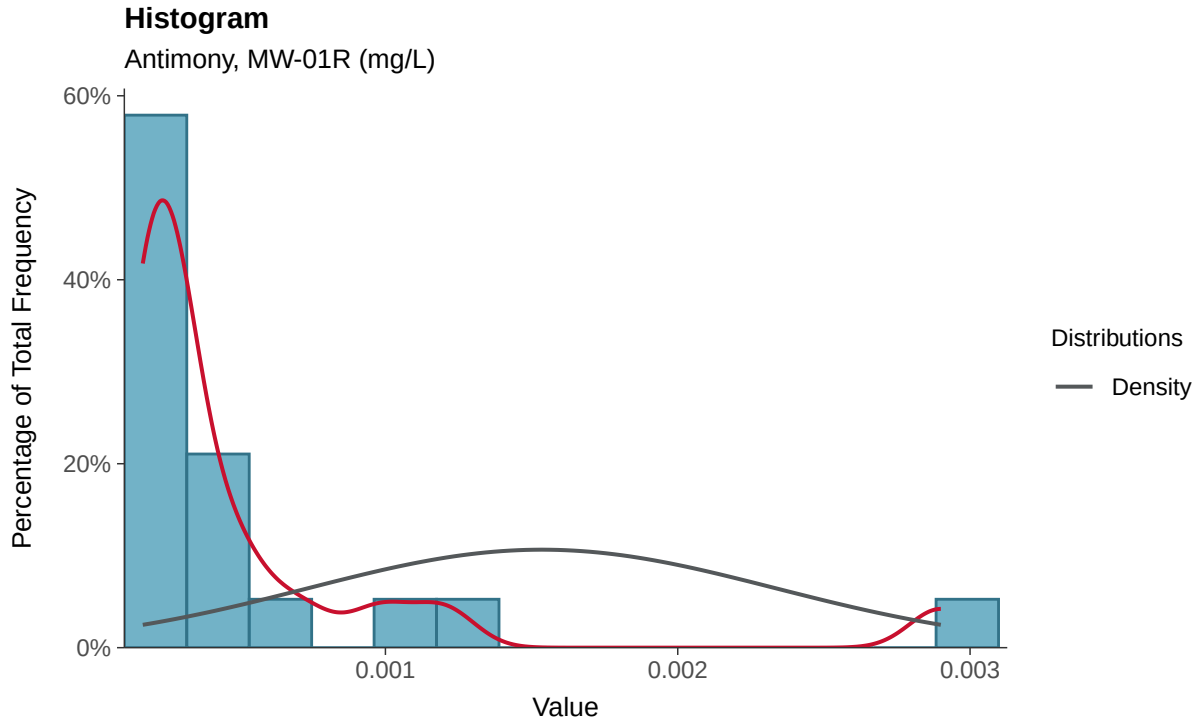
Total Dissolved Solids, MW-01R (mg/L)



Appendix IV: Antimony, MW-01R

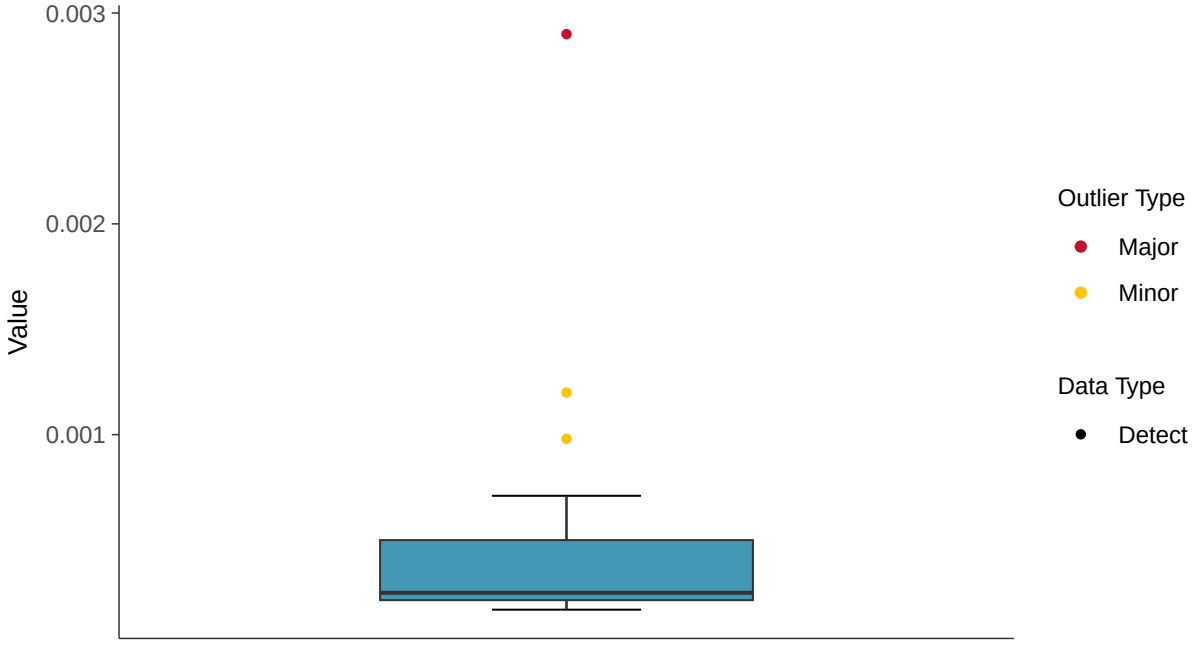
ID: 11_2_4_101





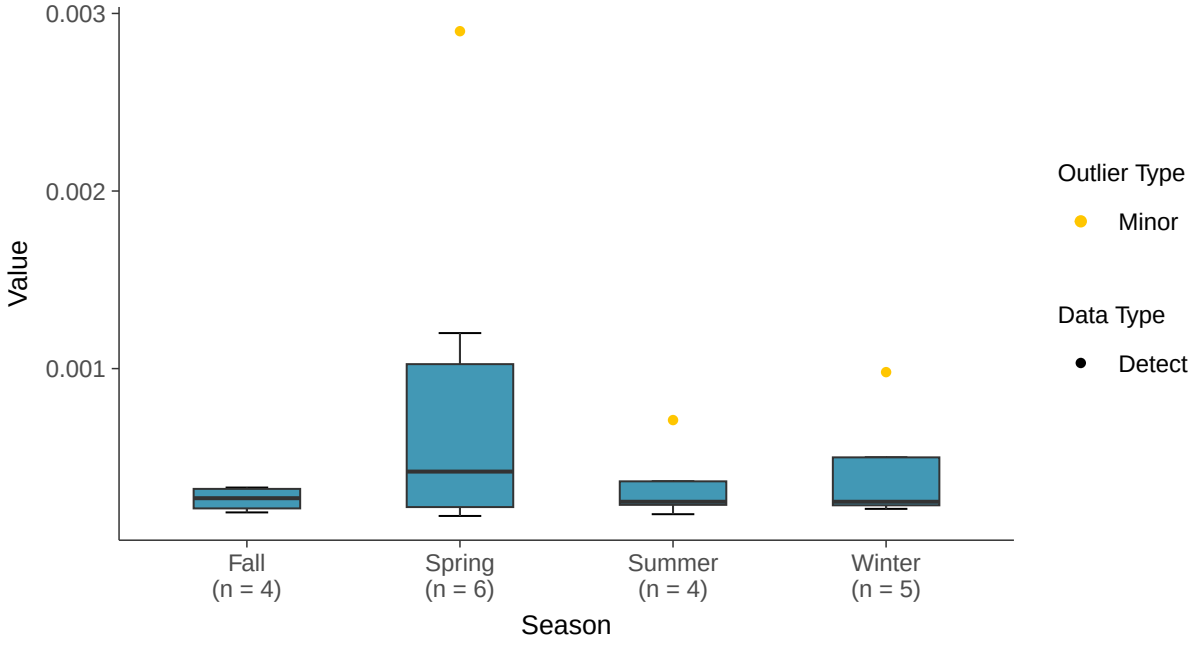
Boxplot

Antimony, MW-01R (mg/L)



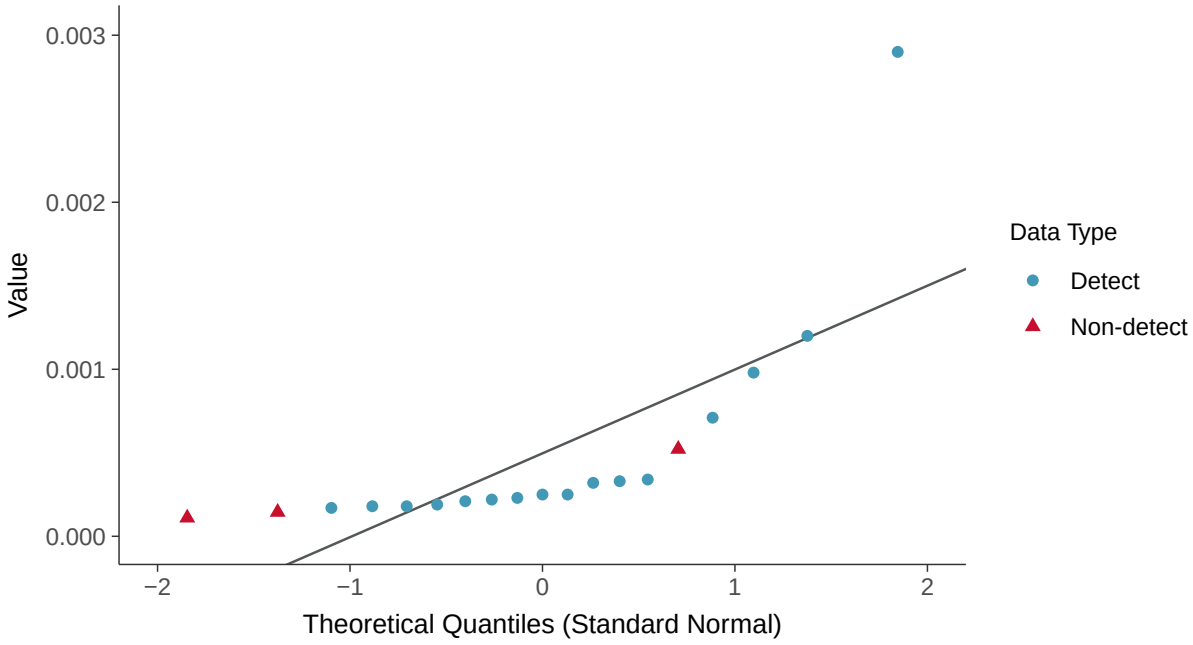
Boxplot by Season

Antimony, MW-01R (mg/L)



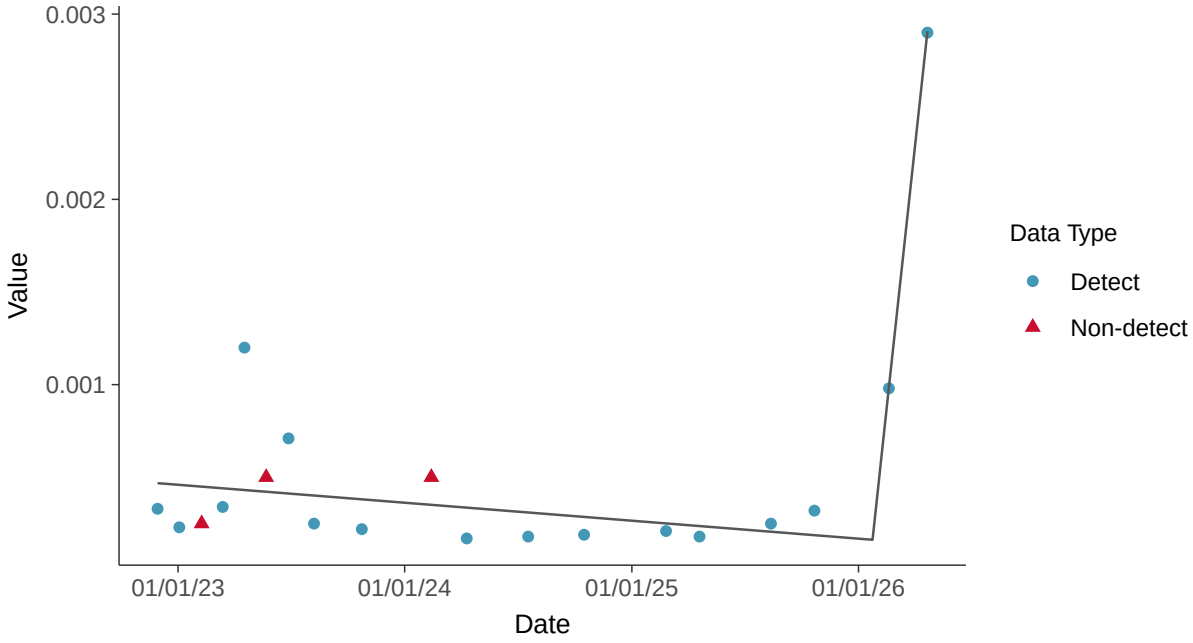
Normal Q-Q plot using ROS Imputed Estimates

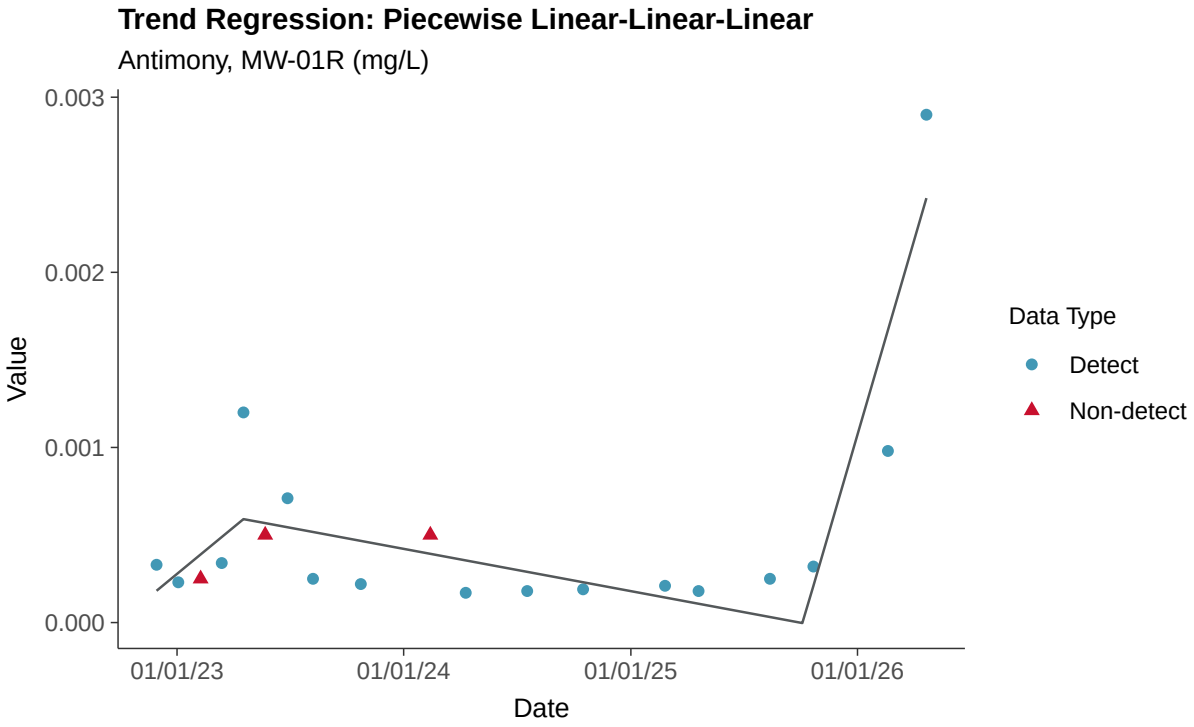
Antimony, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-01R (mg/L)



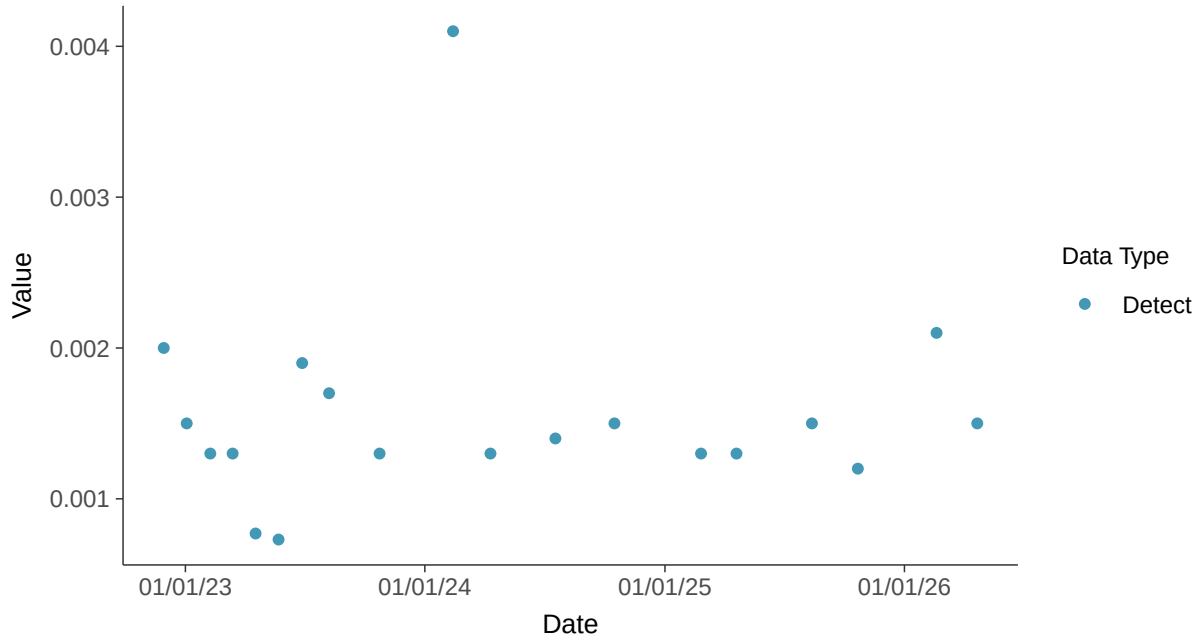

Trend Regression: Piecewise Linear-Linear-Linear
Antimony, MW-01R (mg/L)
0.003
0.002
0.001
0.000
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Arsenic, MW-01R

ID: 11_2_4_102

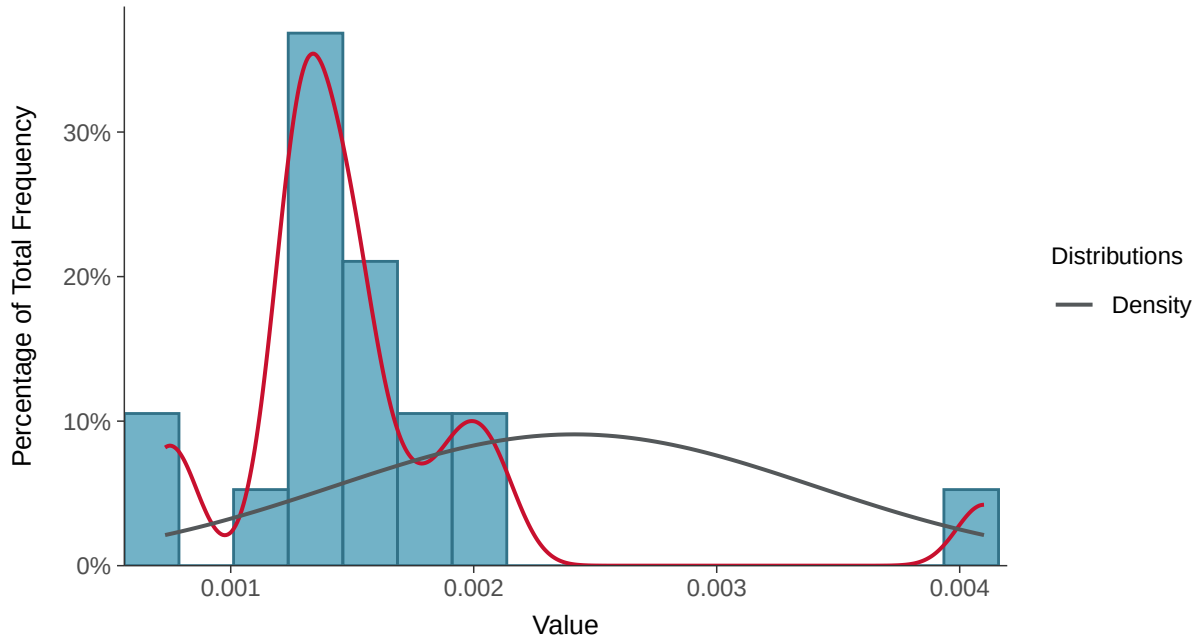
Scatter Plot

Arsenic, MW-01R (mg/L)



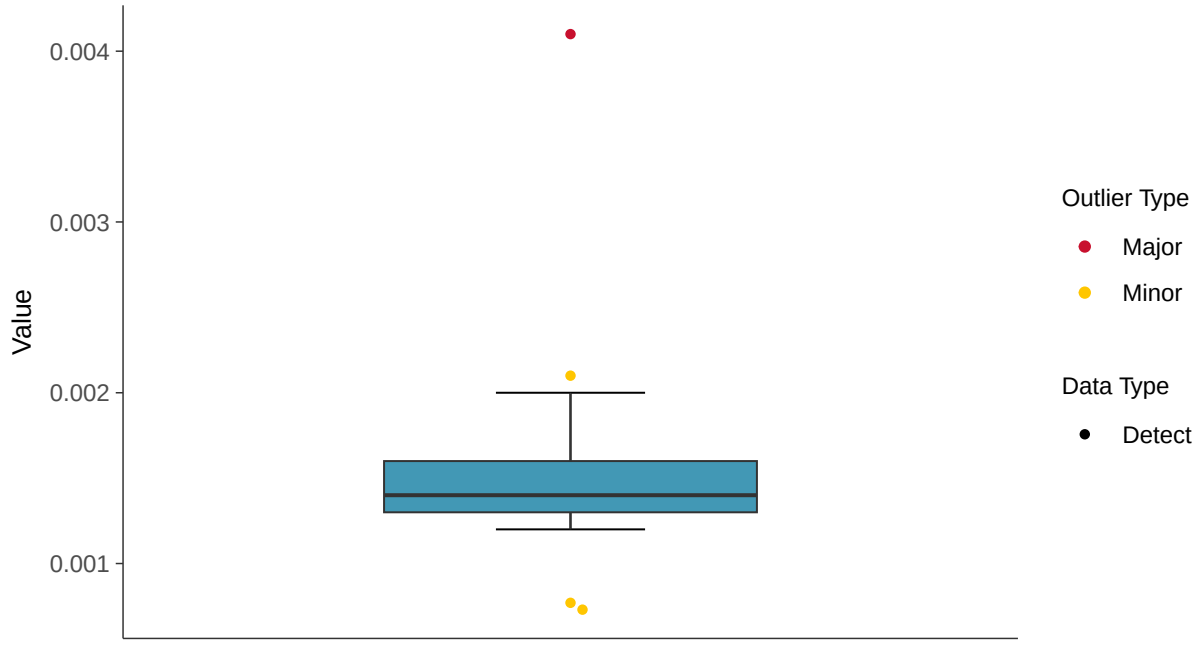
Histogram

Arsenic, MW-01R (mg/L)



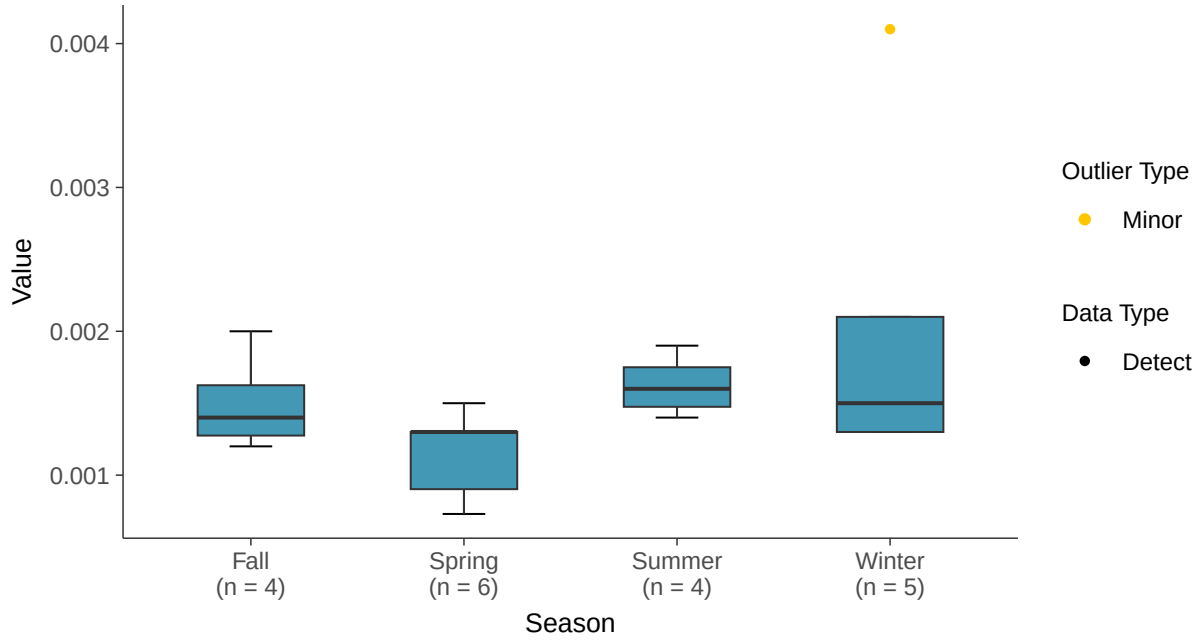
Boxplot

Arsenic, MW-01R (mg/L)



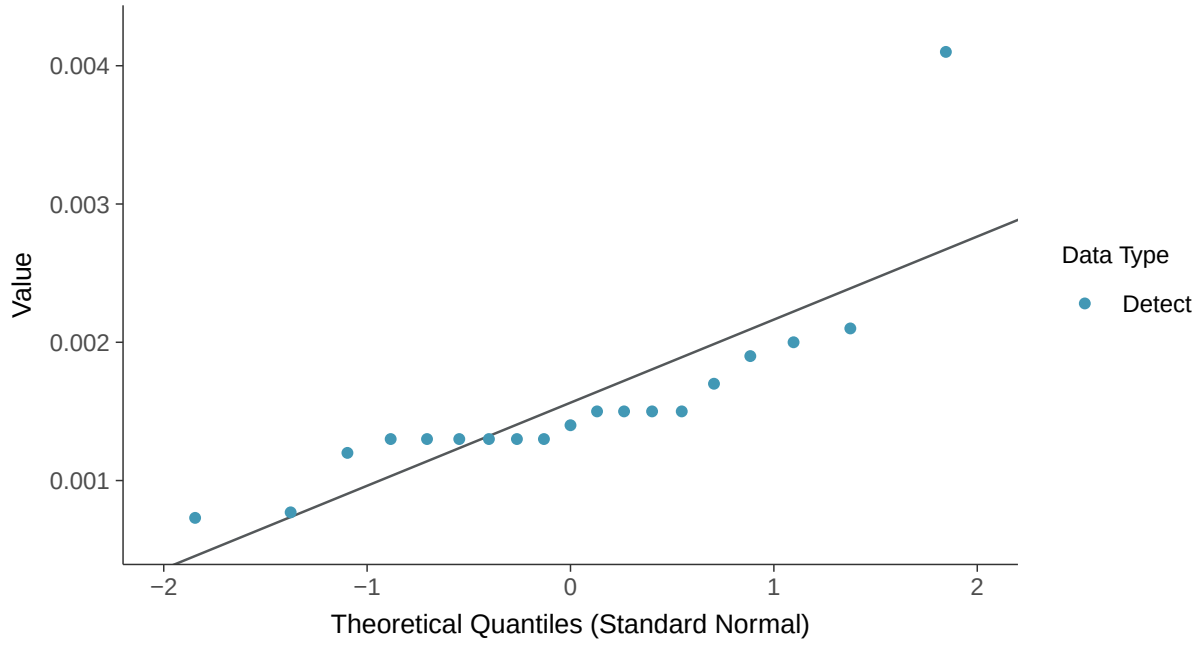
Boxplot by Season

Arsenic, MW-01R (mg/L)



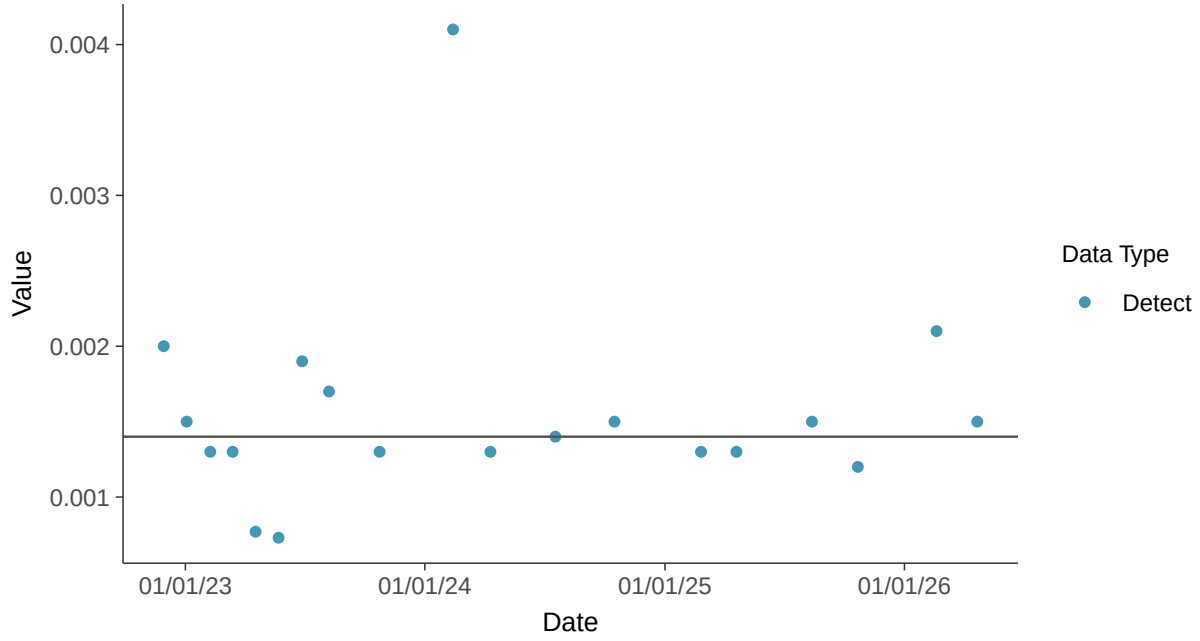
Normal Q-Q plot

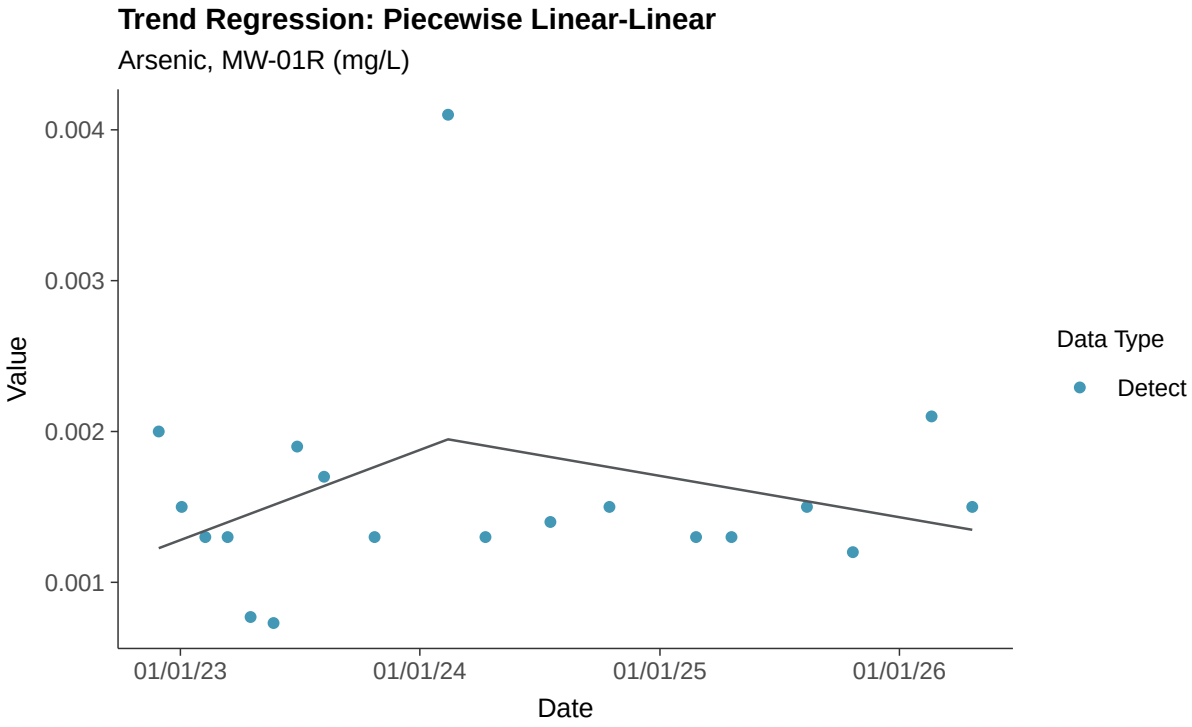
Arsenic, MW-01R (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-01R (mg/L)



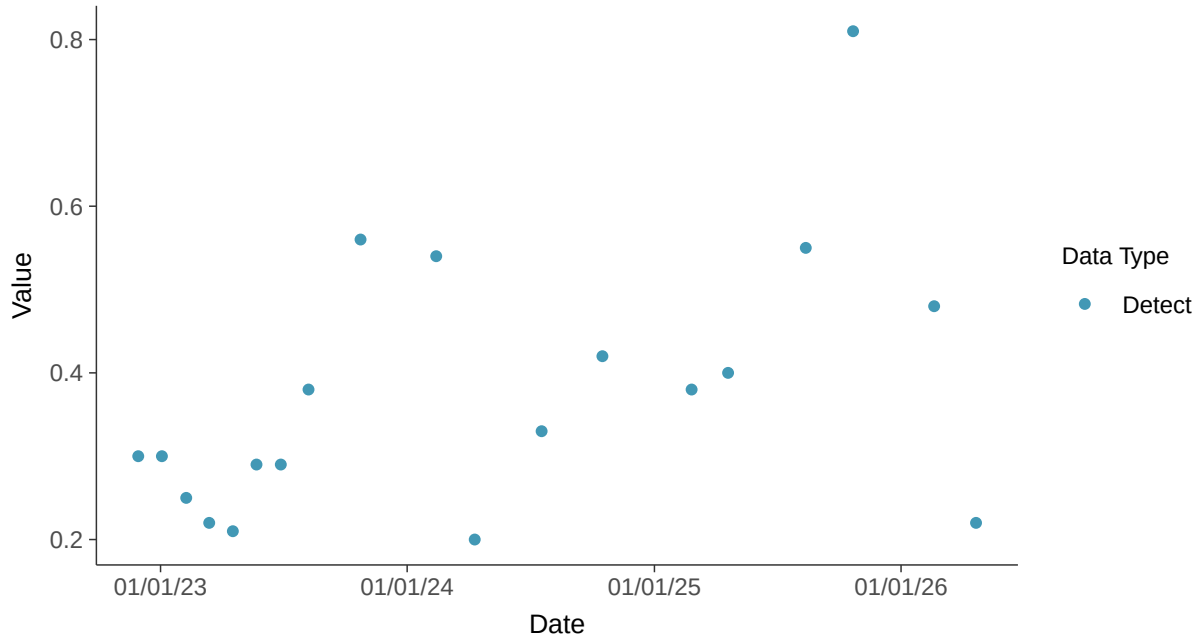

Trend Regression: Piecewise Linear-Linear
Arsenic, MW-01R (mg/L)
0.004
0.003
0.002
0.001
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Barium, MW-01R

ID: 11_2_4_103

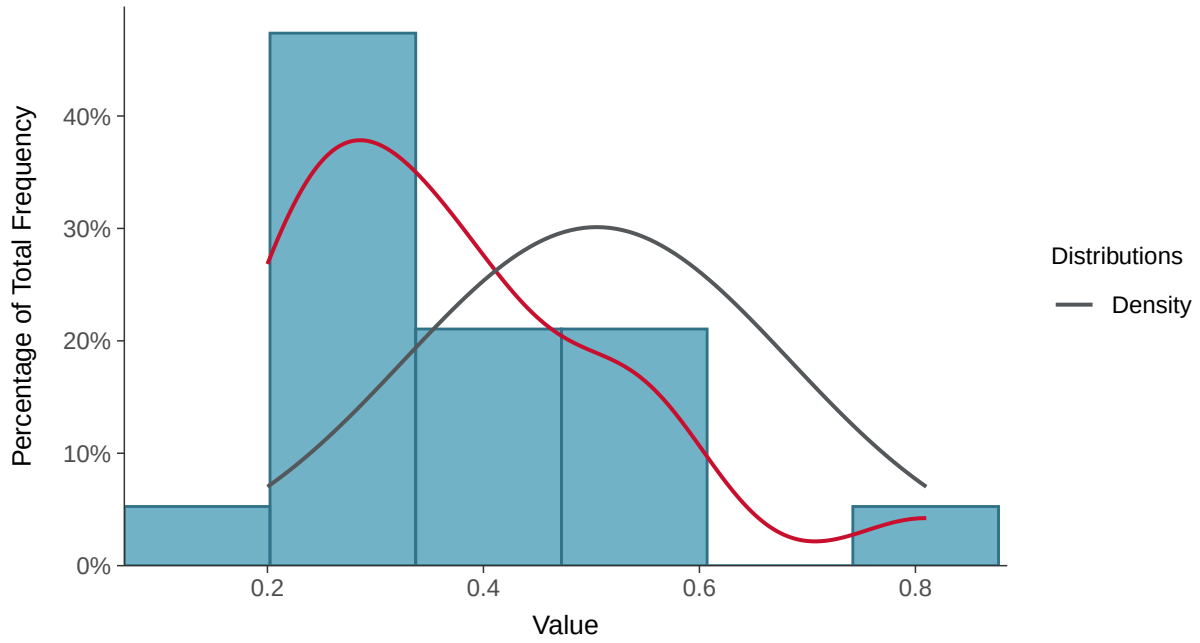
Scatter Plot

Barium, MW-01R (mg/L)



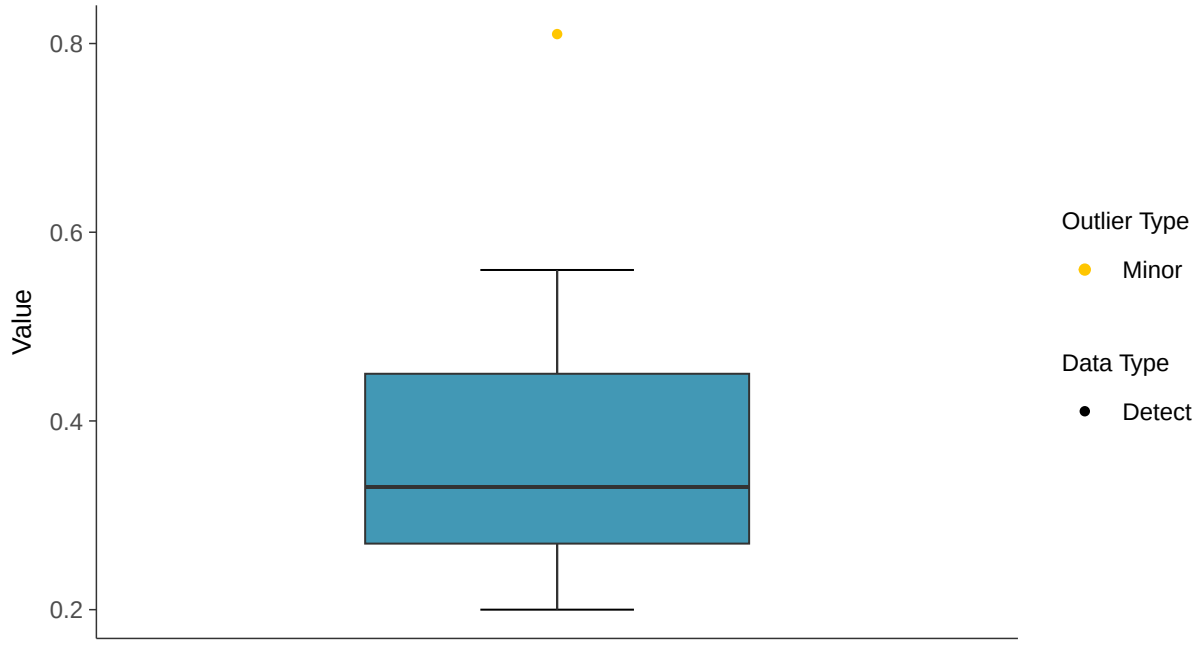
Histogram

Barium, MW-01R (mg/L)



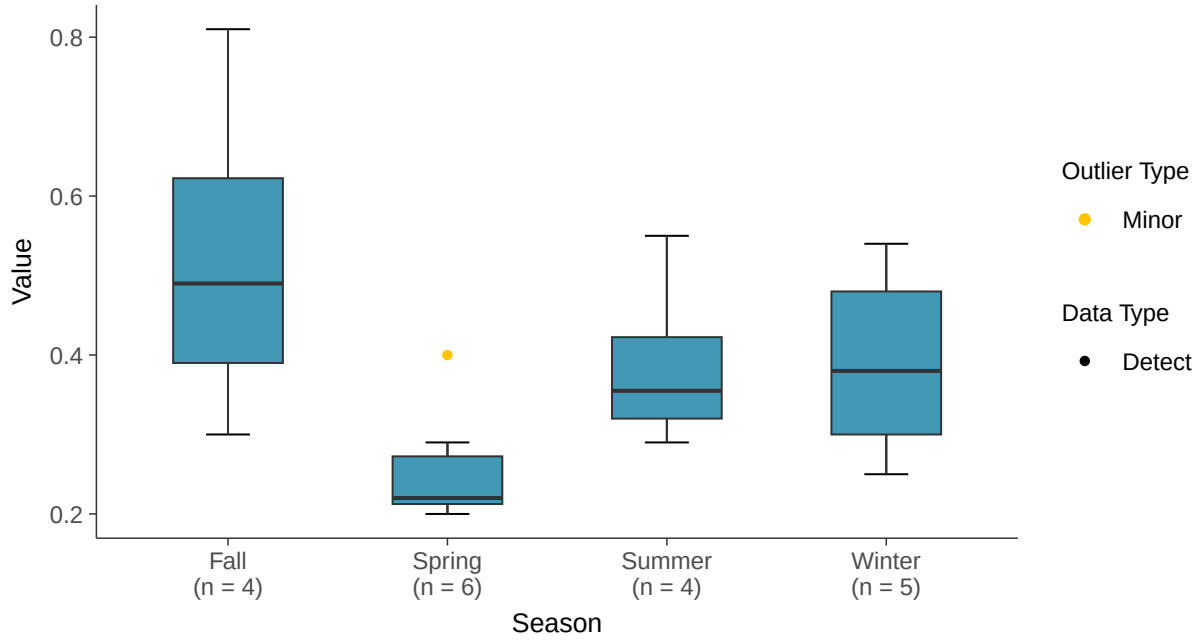
Boxplot

Barium, MW-01R (mg/L)



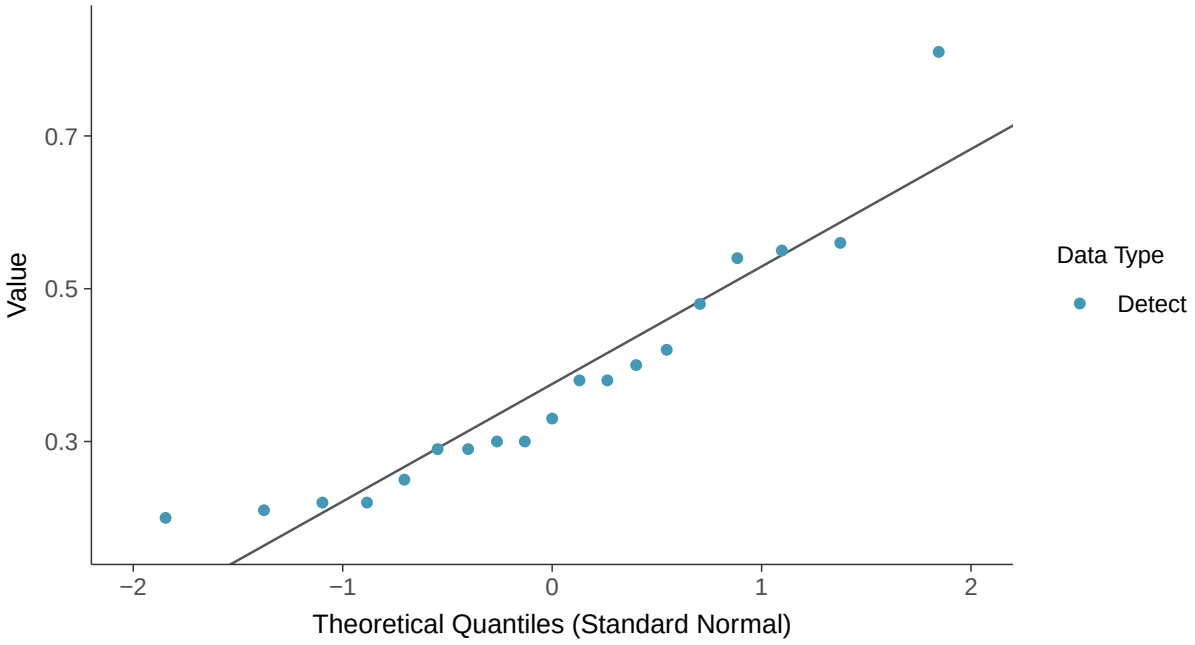
Boxplot by Season

Barium, MW-01R (mg/L)



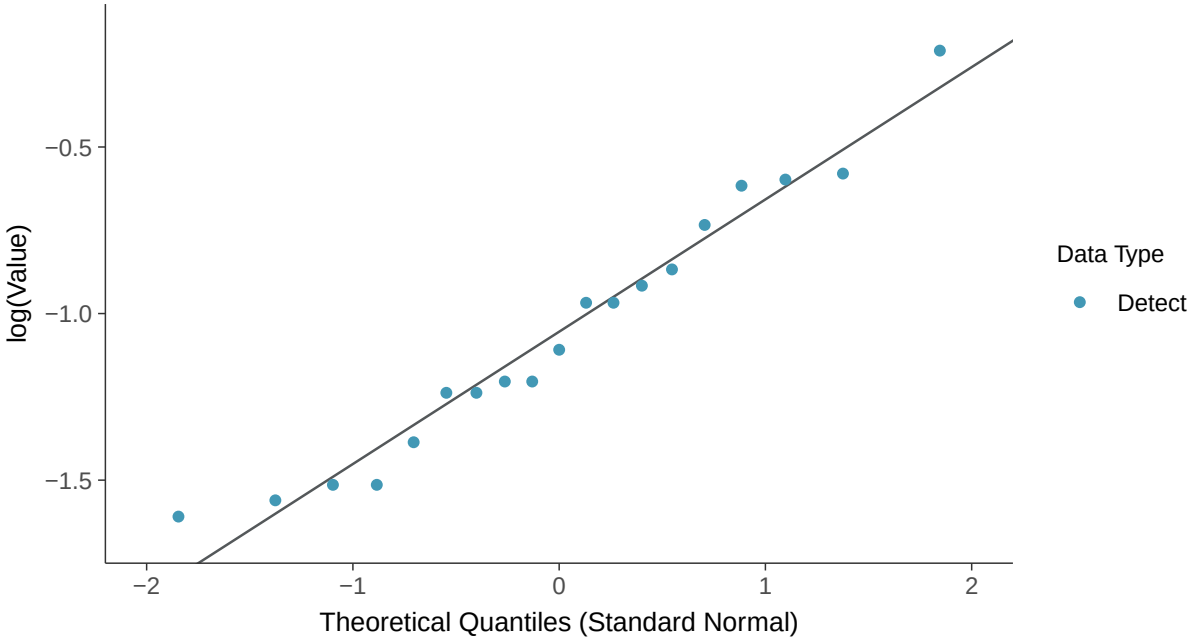
Normal Q-Q plot

Barium, MW-01R (mg/L)



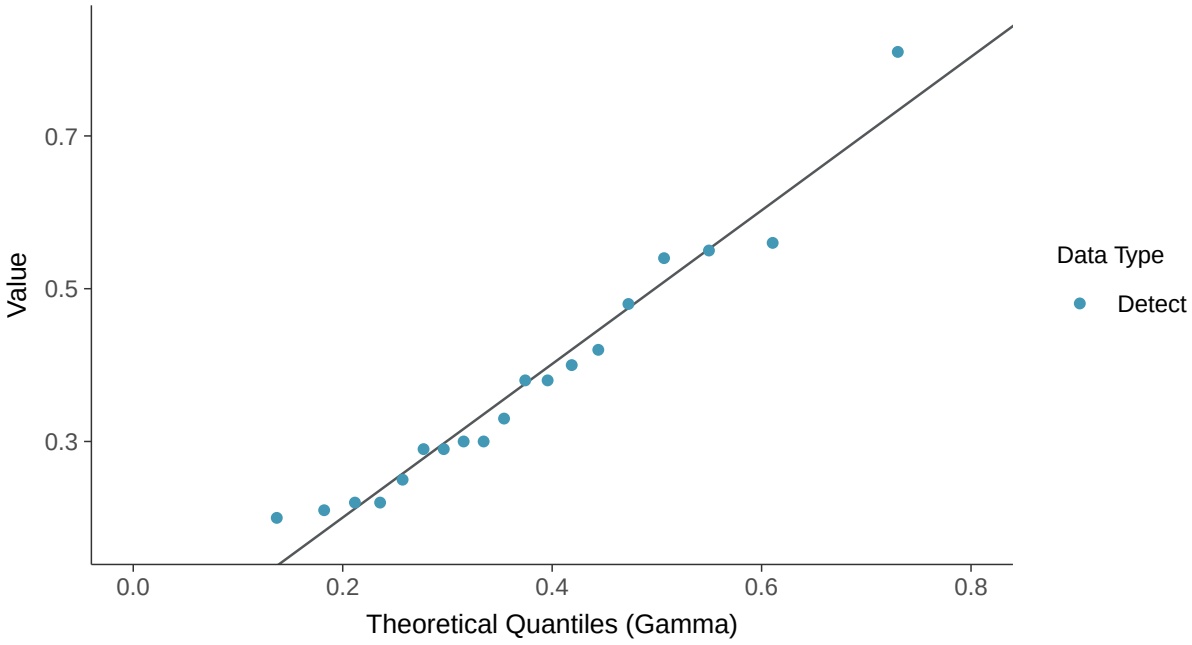
Lognormal Q-Q plot

Barium, MW-01R (mg/L)



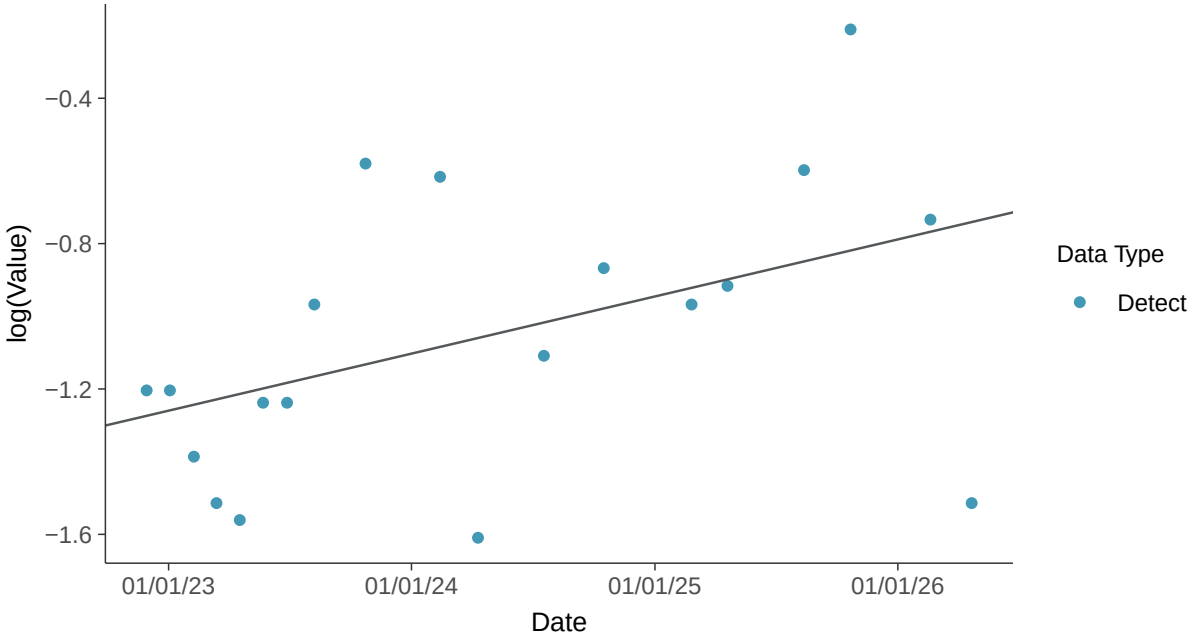
Gamma Q-Q plot

Barium, MW-01R (mg/L)



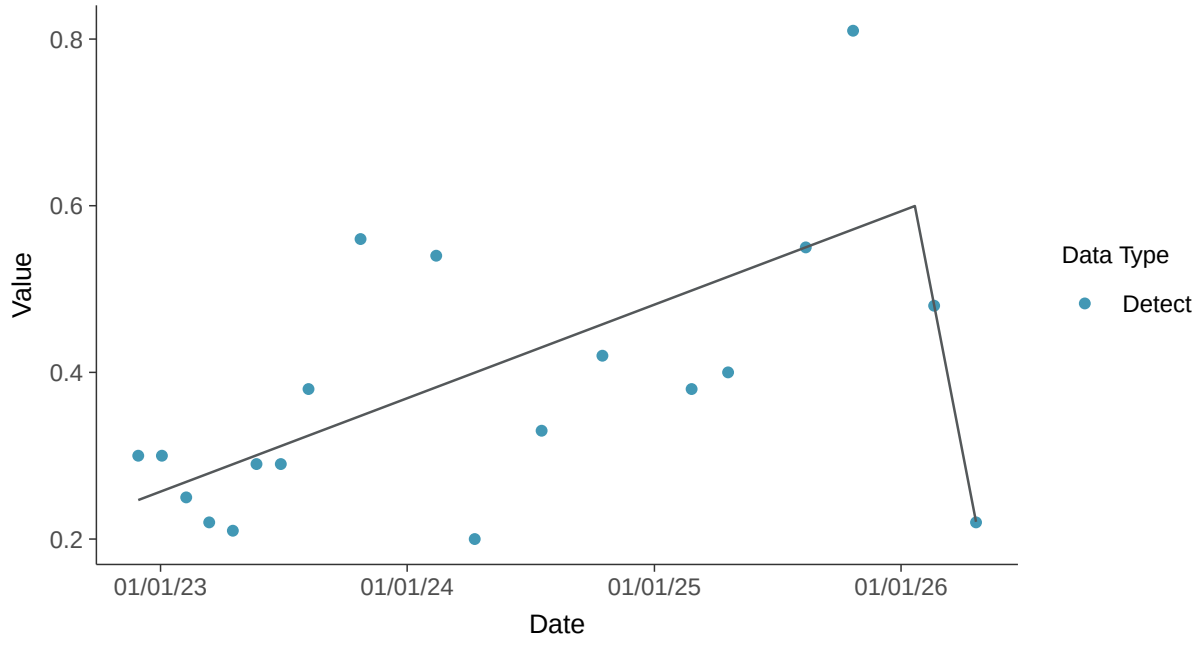
Trend Regression: Lognormal MLE

Barium, MW-01R (mg/L)



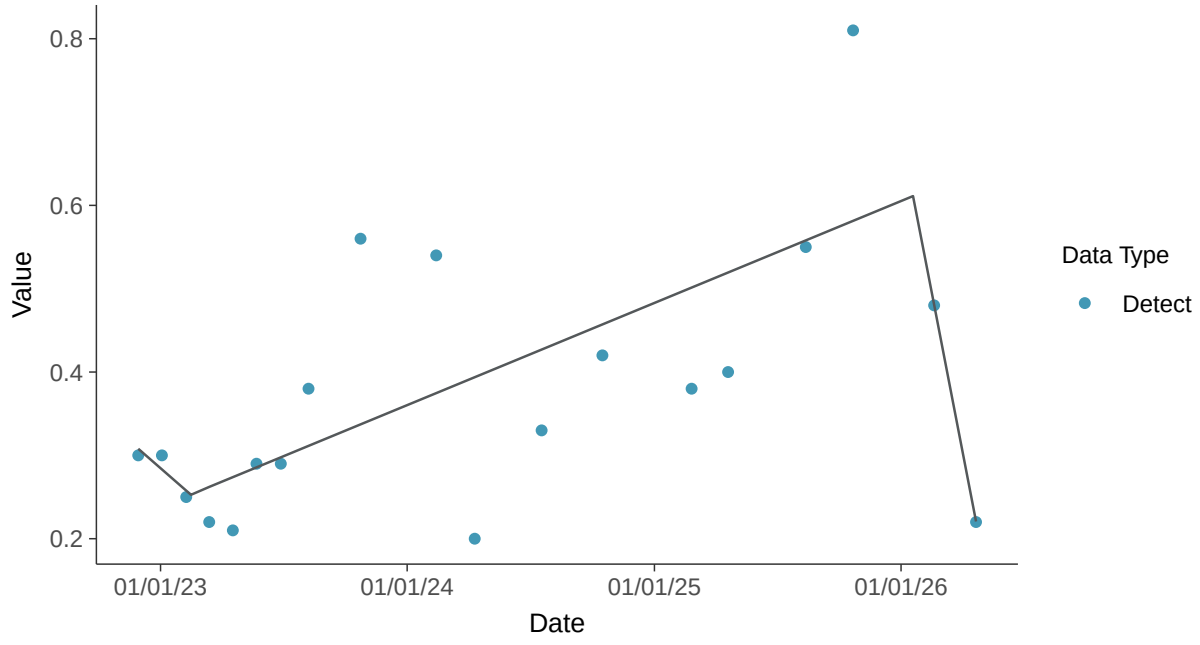
Trend Regression: Piecewise Linear-Linear

Barium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-01R (mg/L)

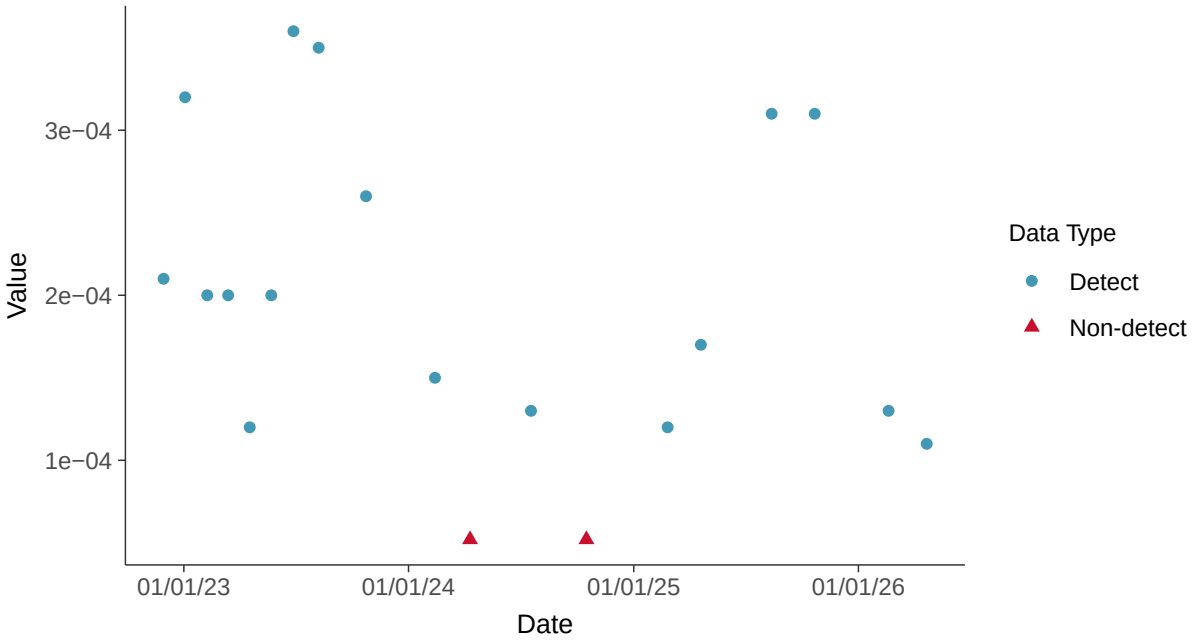


Appendix IV: Beryllium, MW-01R

ID: 11_2_4_104

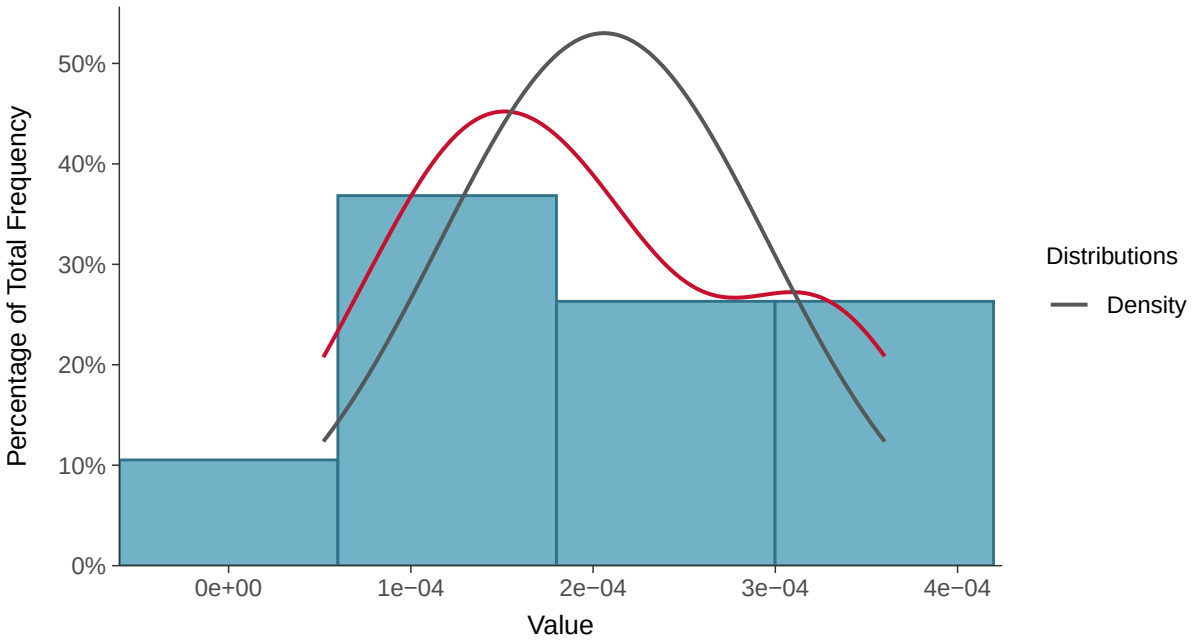
Scatter Plot

Beryllium, MW-01R (mg/L)



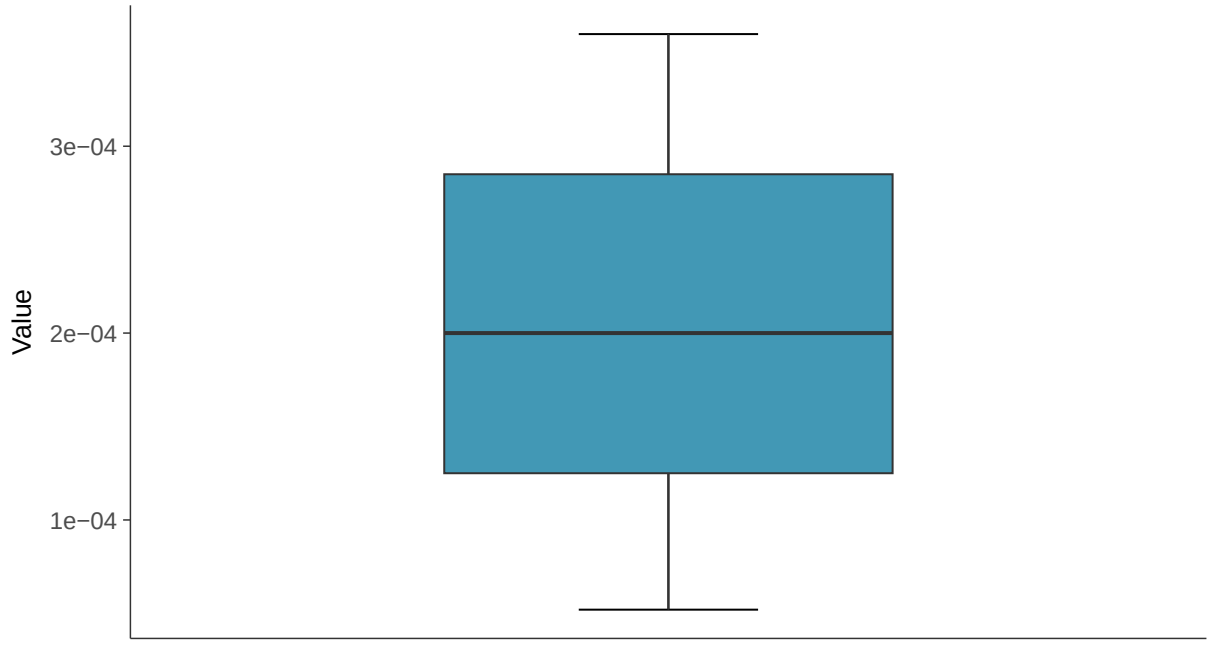
Histogram

Beryllium, MW-01R (mg/L)



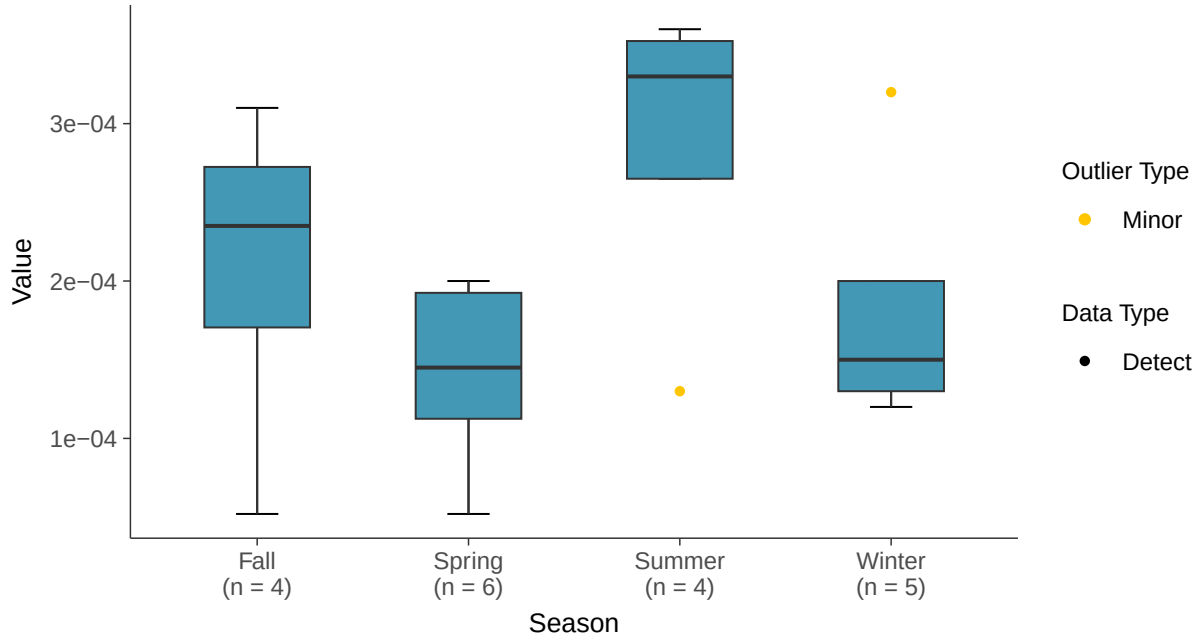
Boxplot

Beryllium, MW-01R (mg/L)



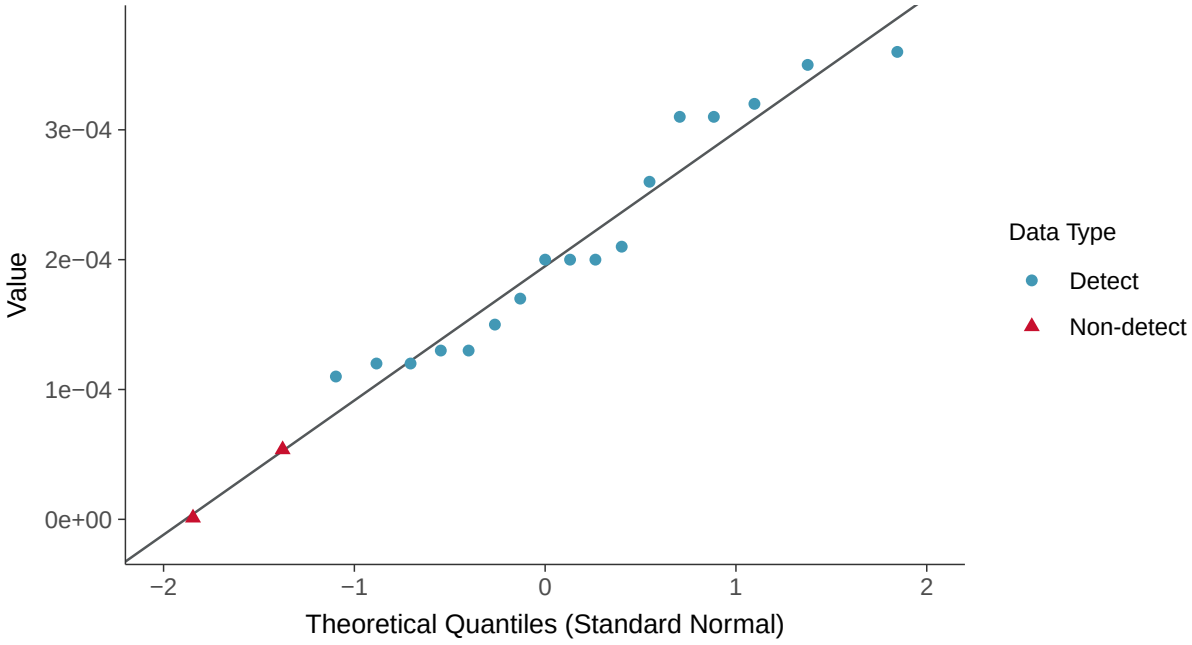
Boxplot by Season

Beryllium, MW-01R (mg/L)



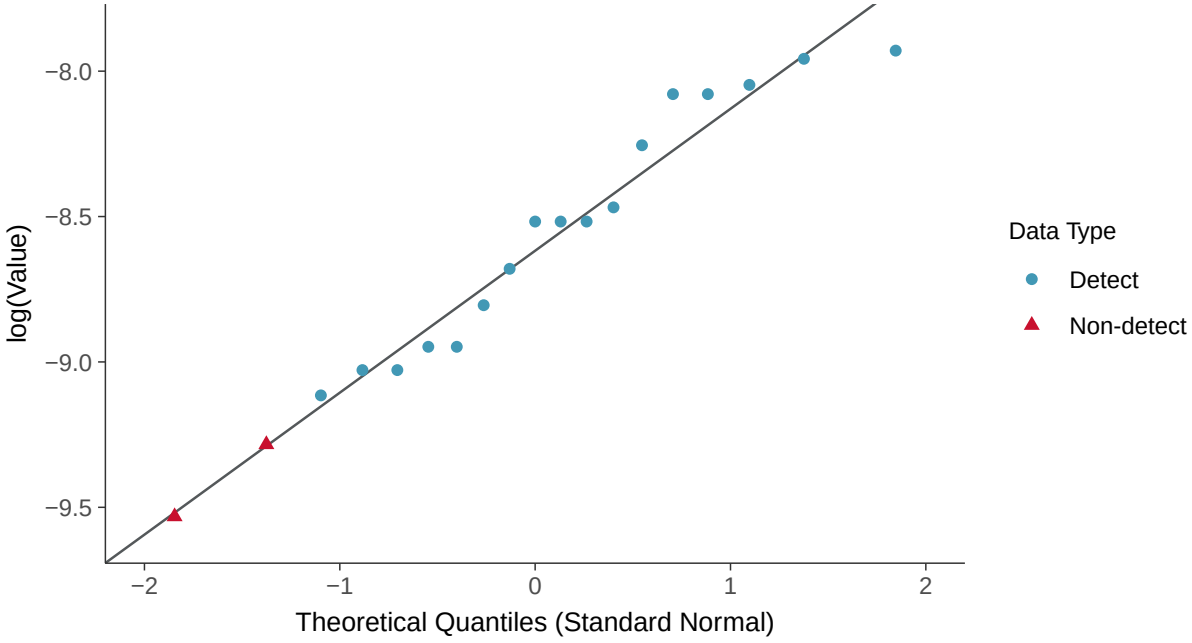
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-01R (mg/L)



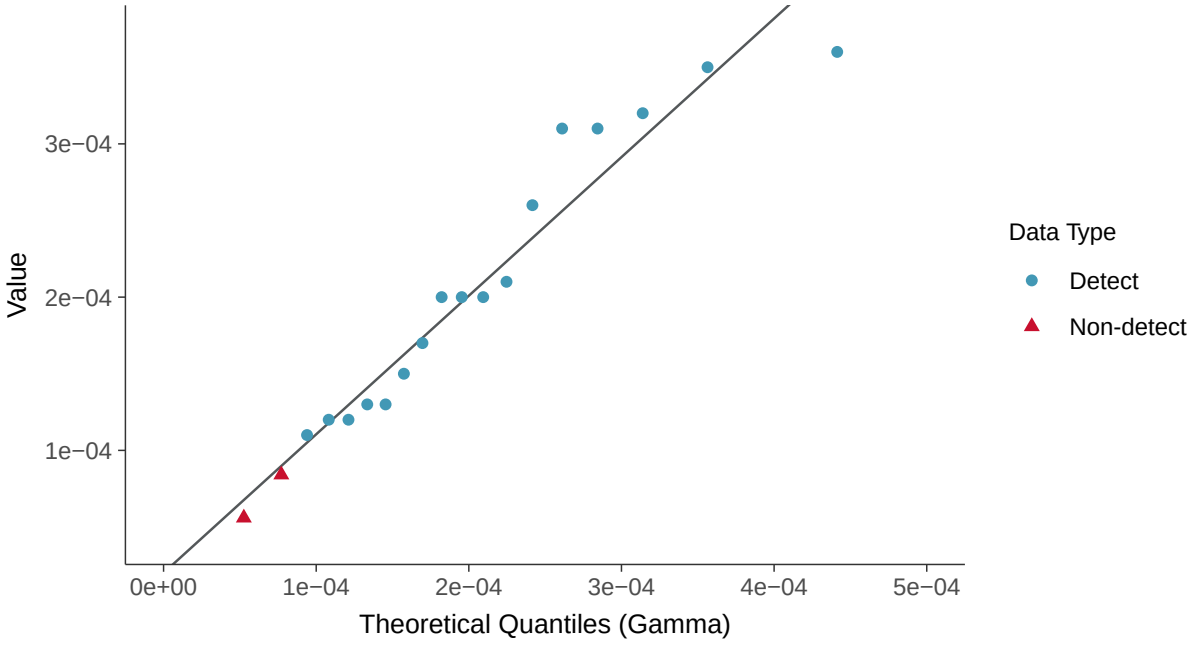
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-01R (mg/L)



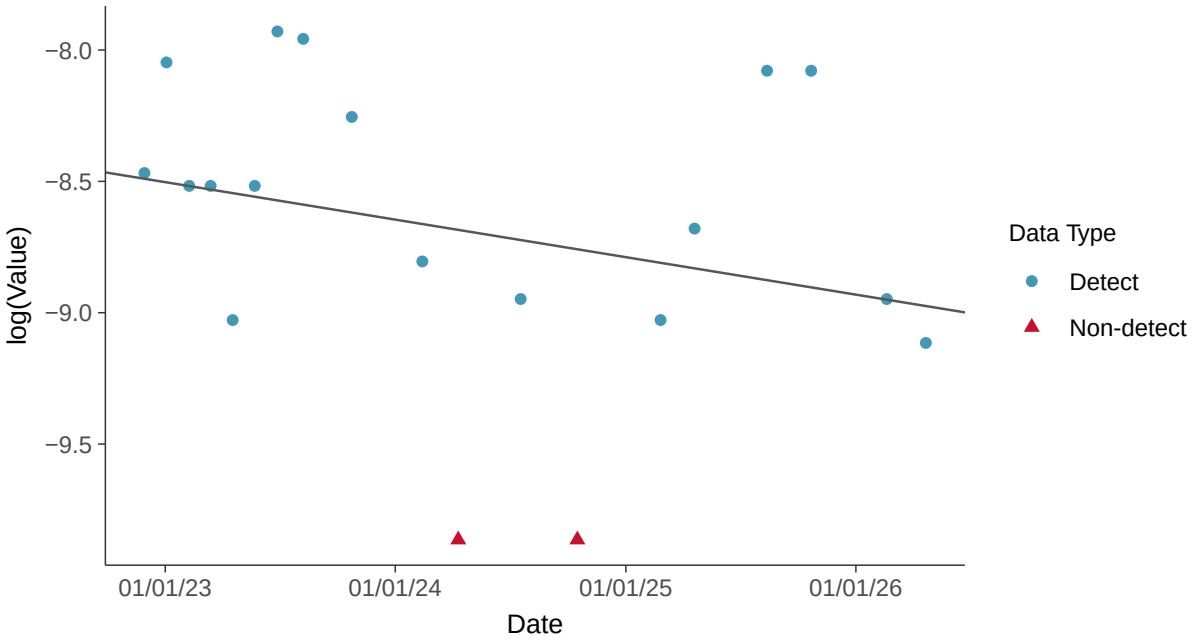
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-01R (mg/L)



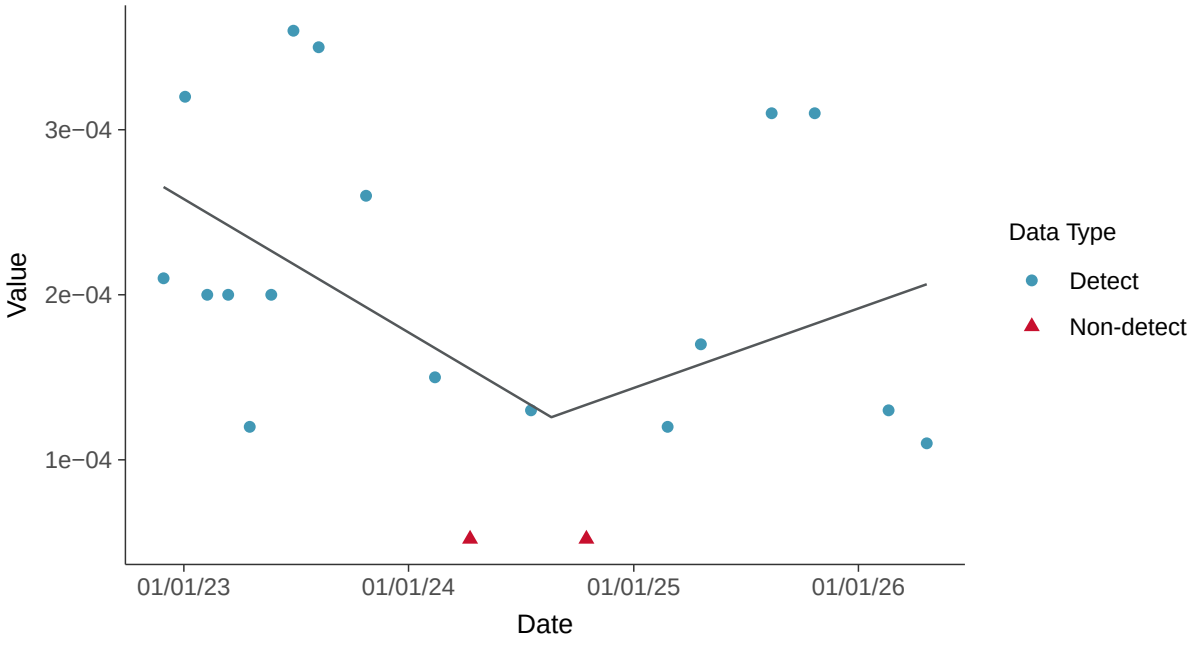
Trend Regression: Lognormal MLE

Beryllium, MW-01R (mg/L)



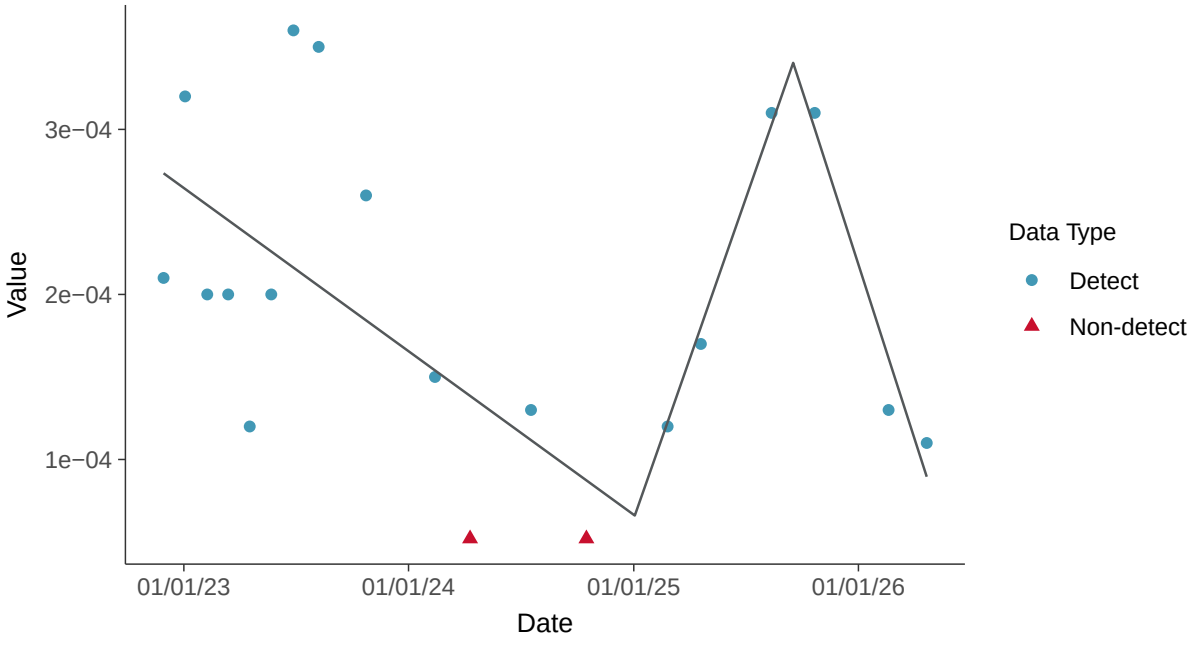
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-01R (mg/L)



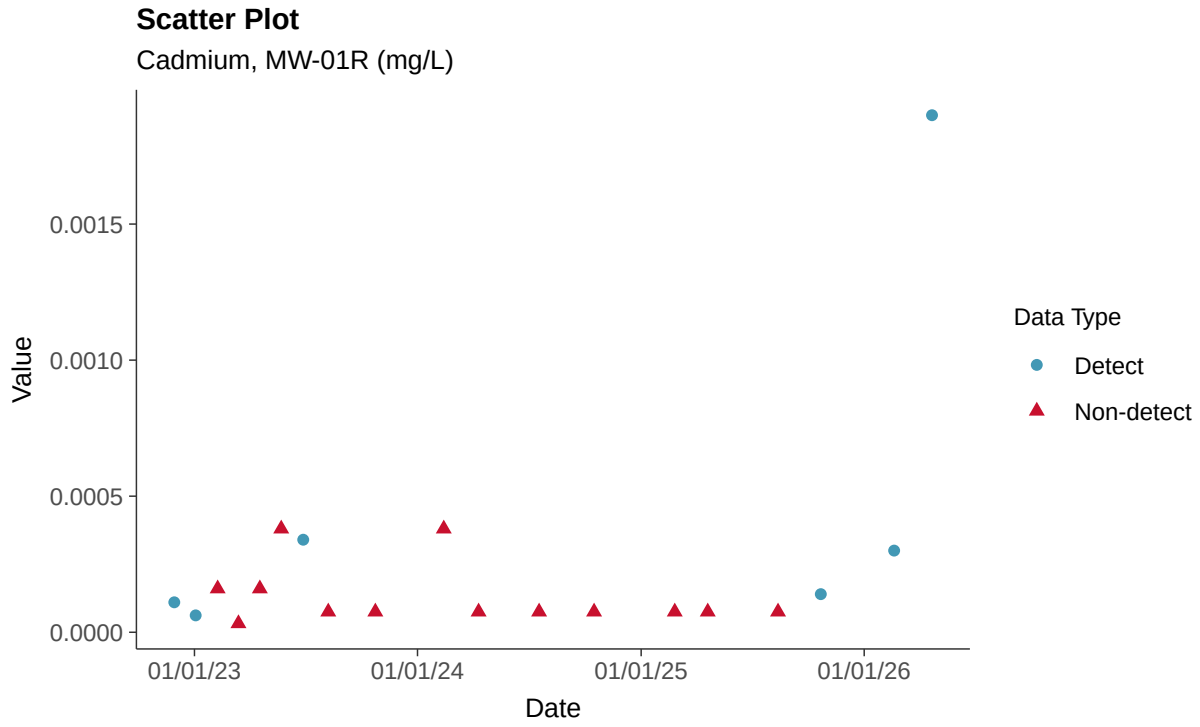
Trend Regression: Piecewise Linear-Linear-Linear

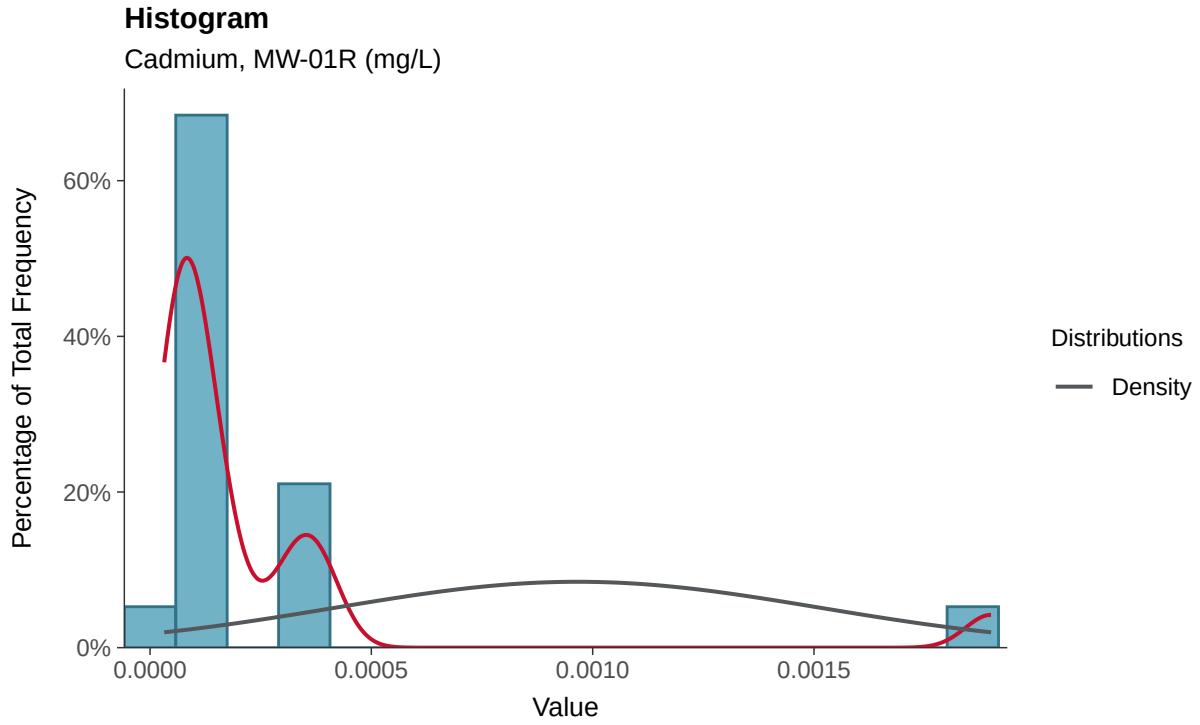
Beryllium, MW-01R (mg/L)



Appendix IV: Cadmium, MW-01R

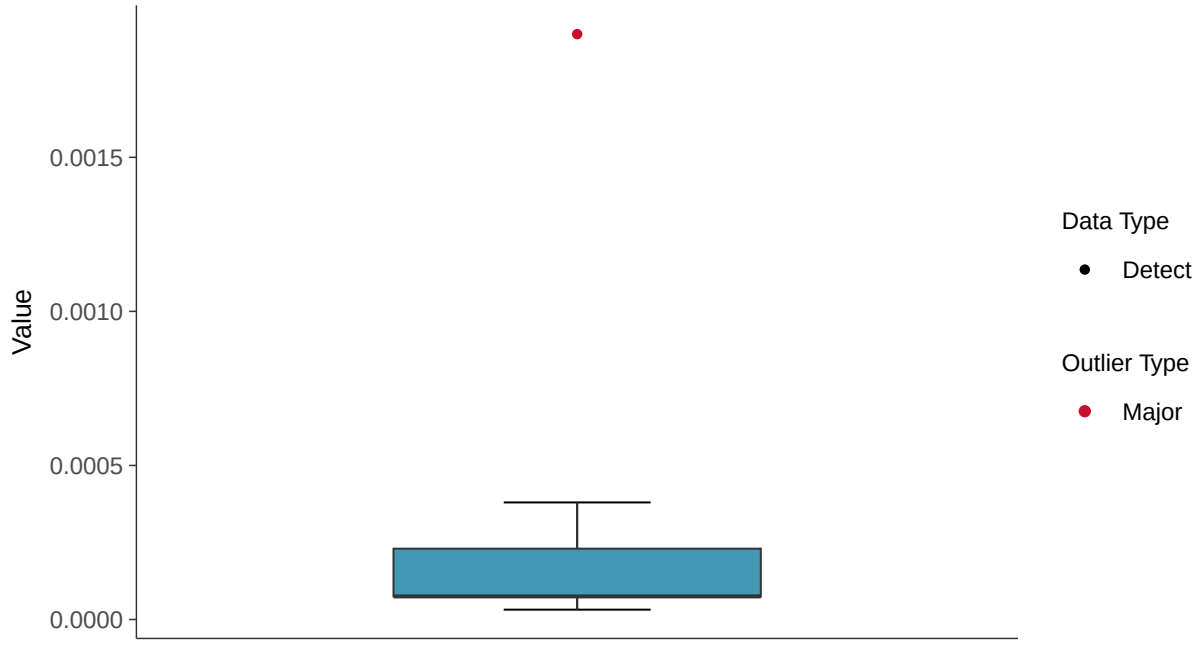
ID: 11_2_4_106





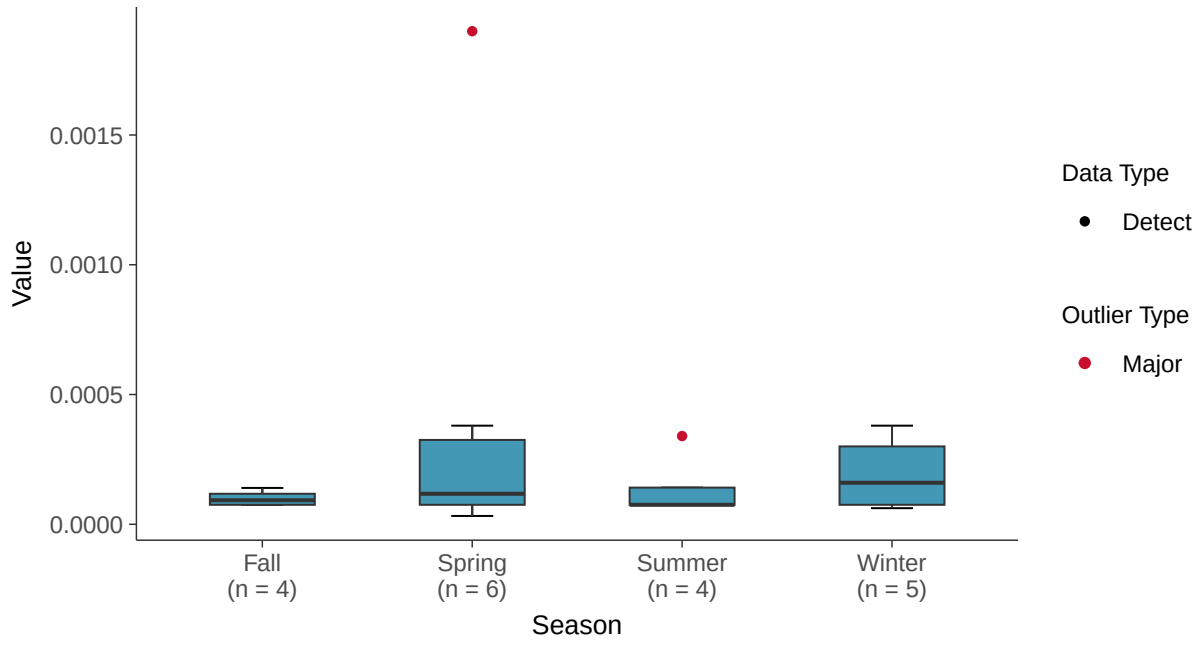
Boxplot

Cadmium, MW-01R (mg/L)



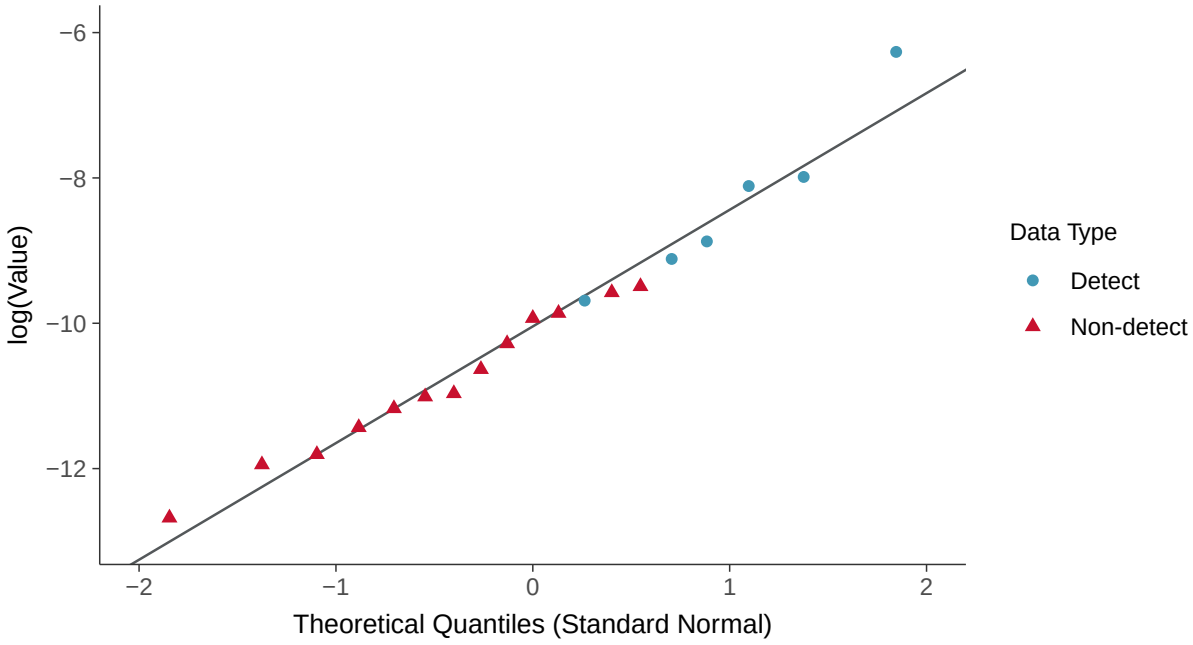
Boxplot by Season

Cadmium, MW-01R (mg/L)



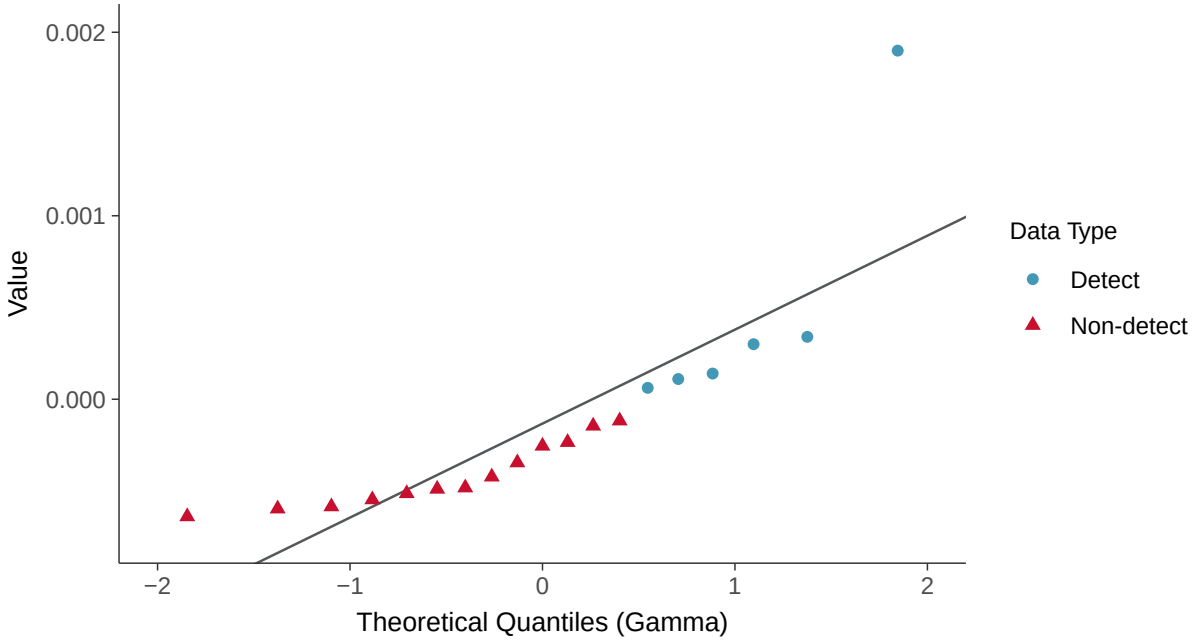
Lognormal Q-Q plot using ROS Imputed Estimates

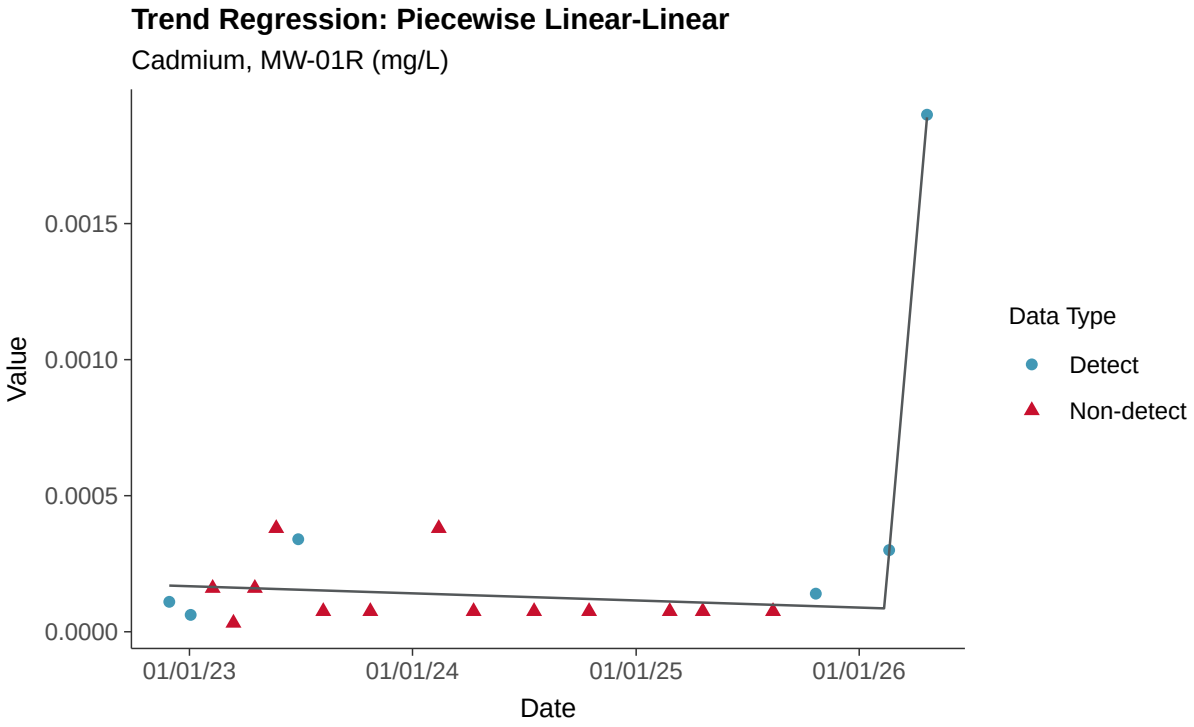
Cadmium, MW-01R (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-01R (mg/L)



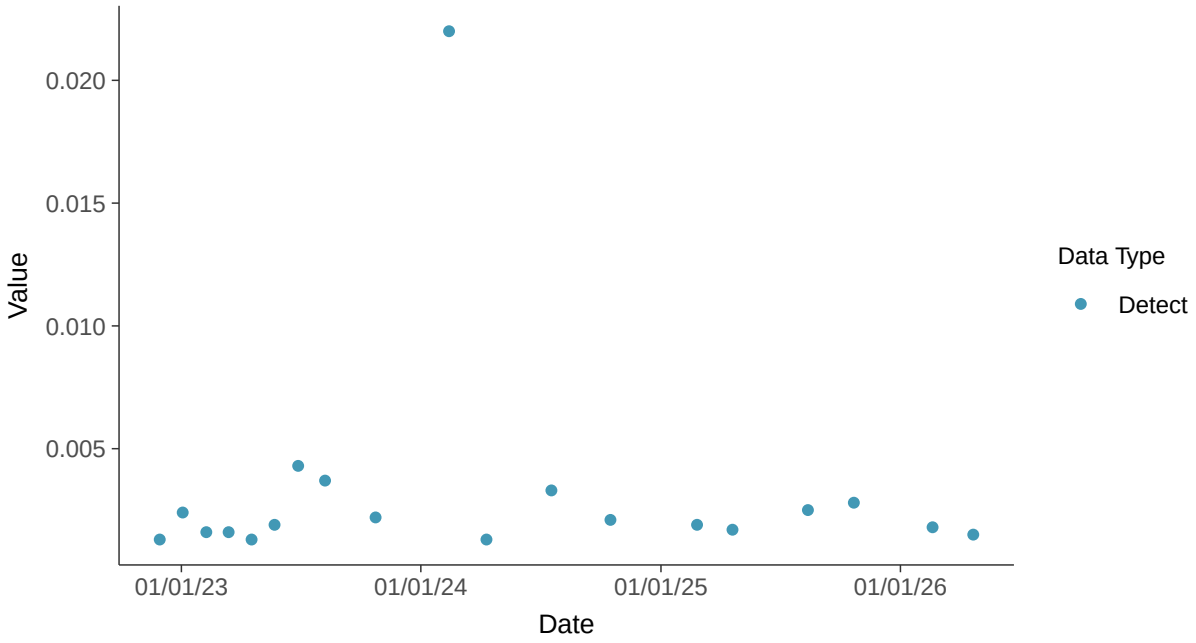

Trend Regression: Piecewise Linear-Linear
Cadmium, MW-01R (mg/L)
Value
0.0015
0.0010
0.0005
0.0000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Chromium, Total, MW-01R

ID: 11_2_4_109

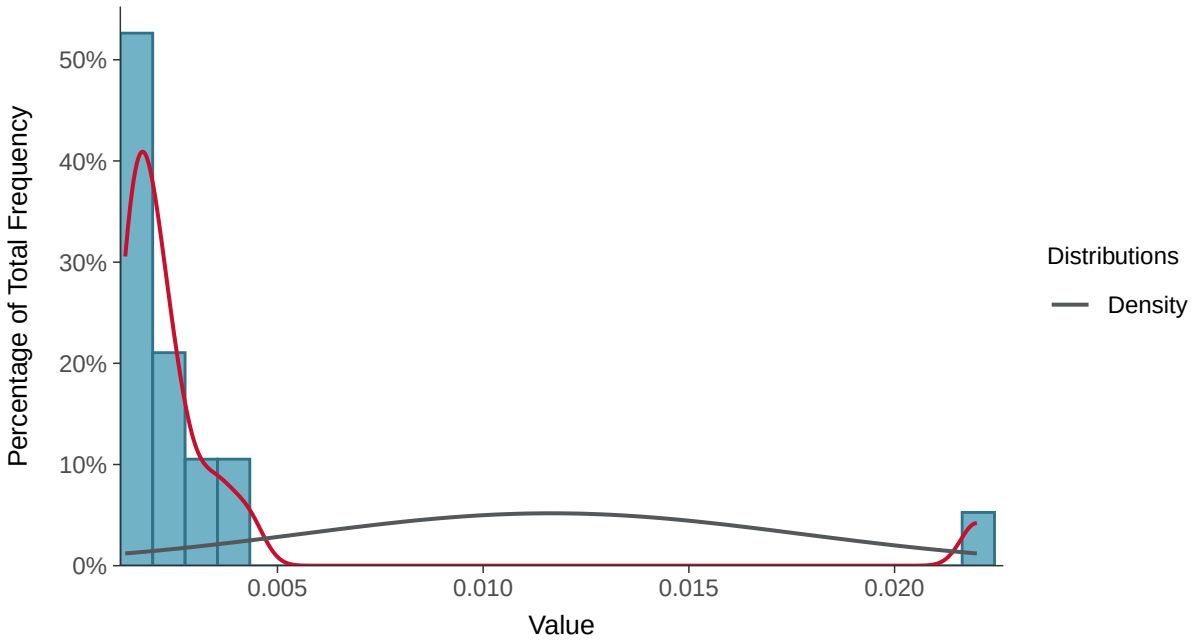
Scatter Plot

Chromium, Total, MW-01R (mg/L)



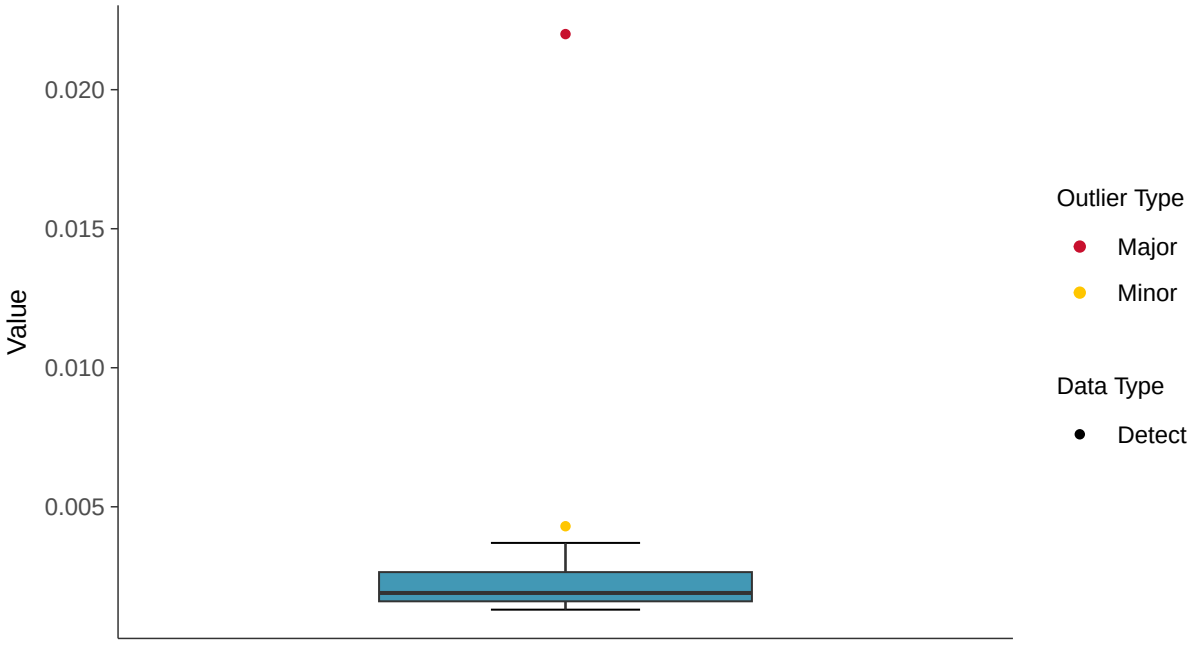
Histogram

Chromium, Total, MW-01R (mg/L)



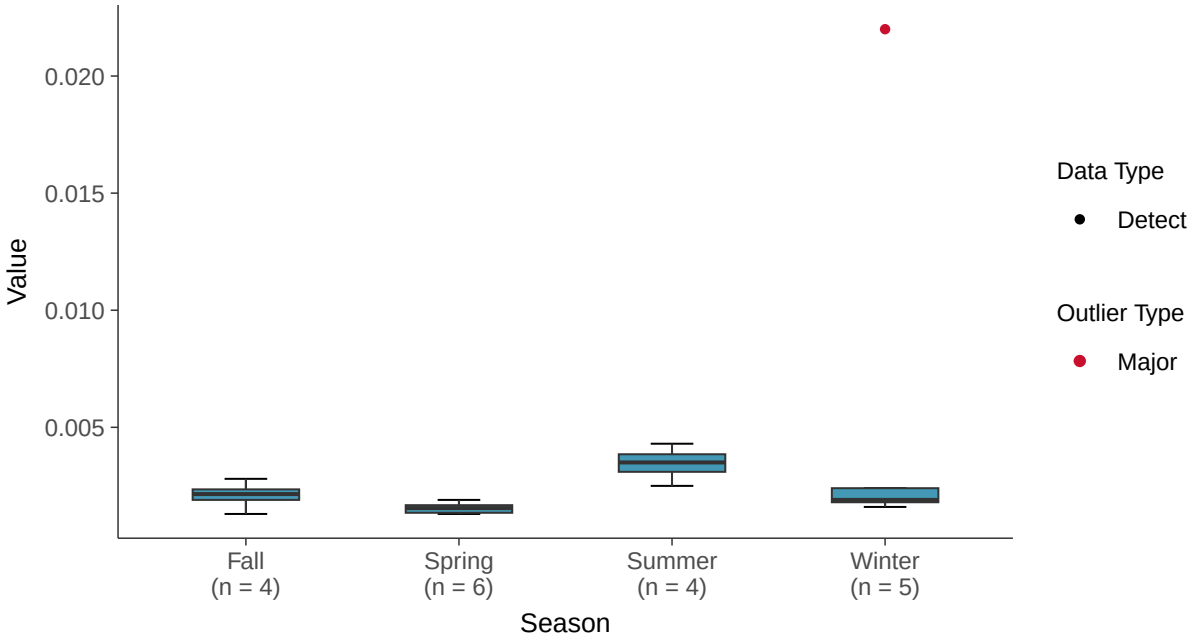
Boxplot

Chromium, Total, MW-01R (mg/L)



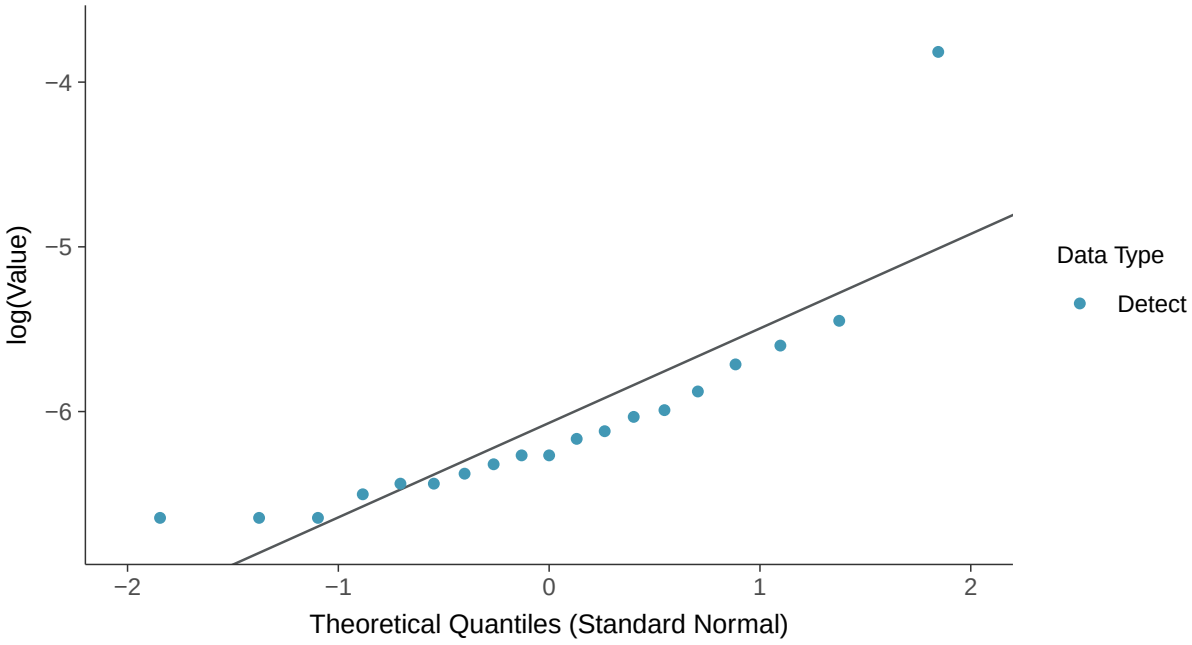
Boxplot by Season

Chromium, Total, MW-01R (mg/L)



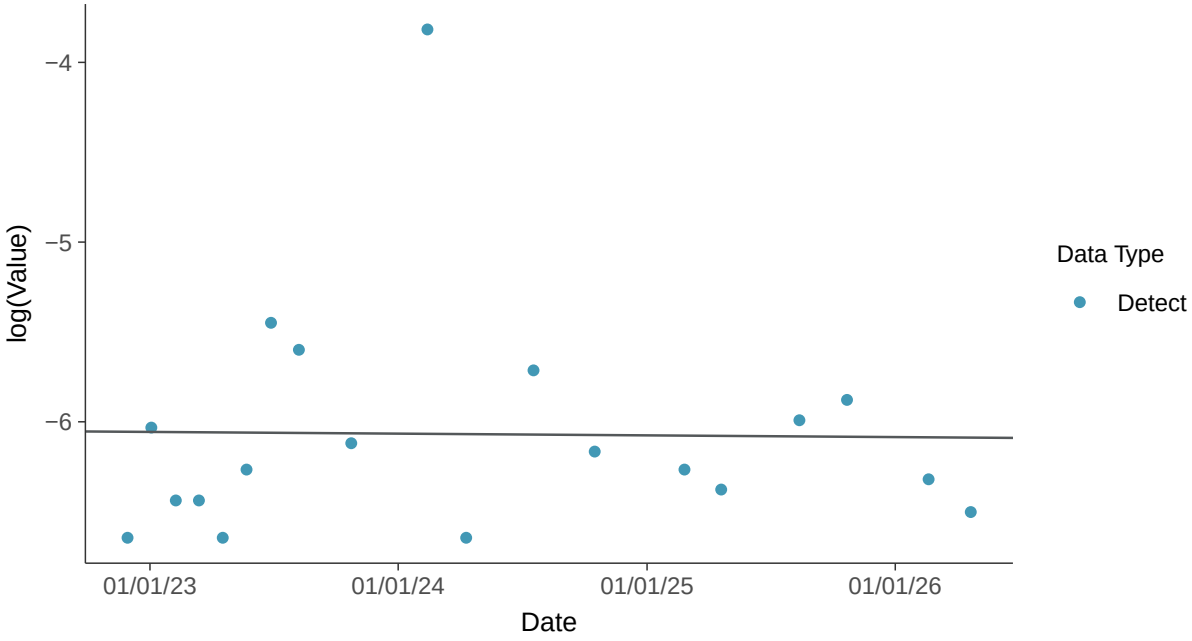
Lognormal Q-Q plot

Chromium, Total, MW-01R (mg/L)



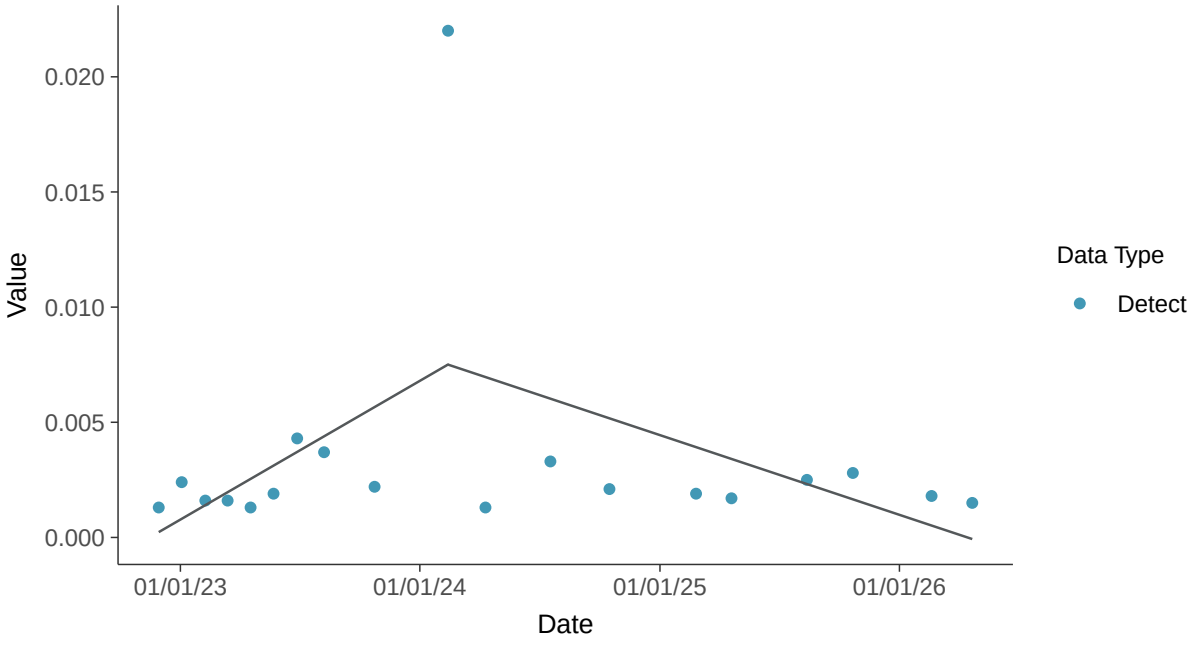
Trend Regression: Lognormal MLE

Chromium, Total, MW-01R (mg/L)



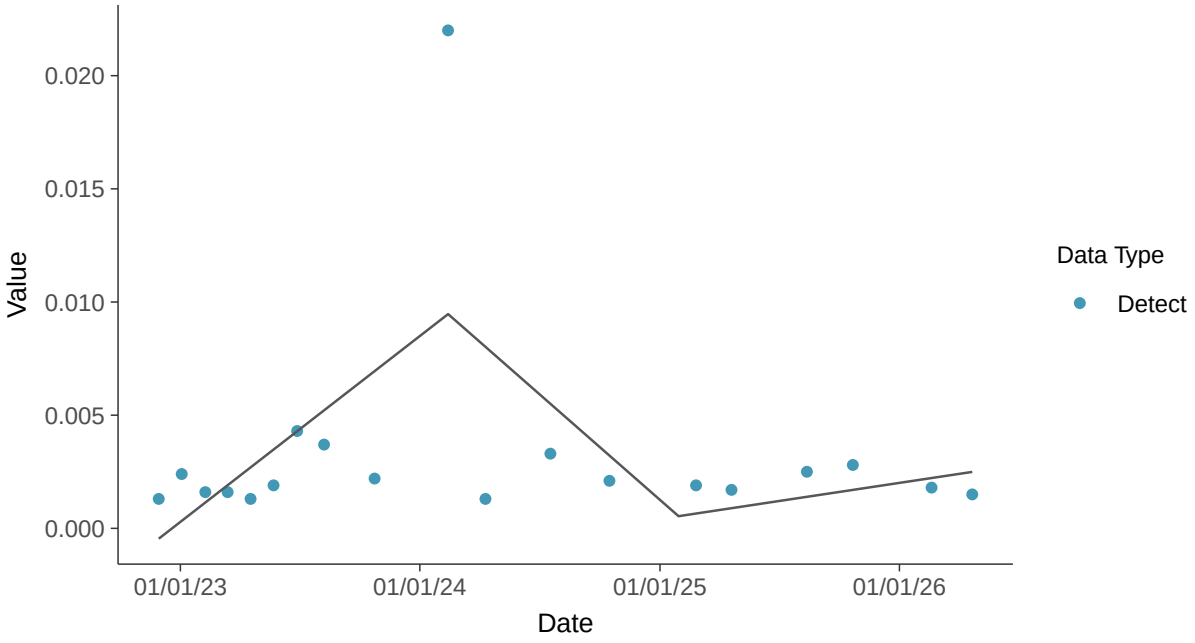
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-01R (mg/L)

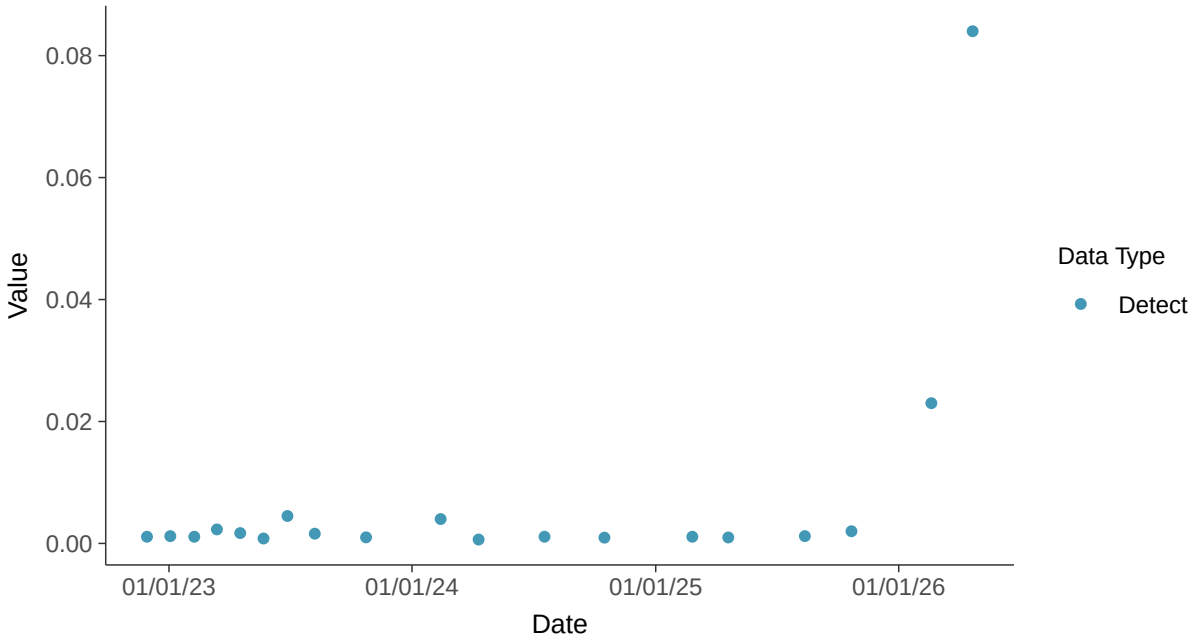


Appendix IV: Cobalt, MW-01R

ID: 11_2_4_110

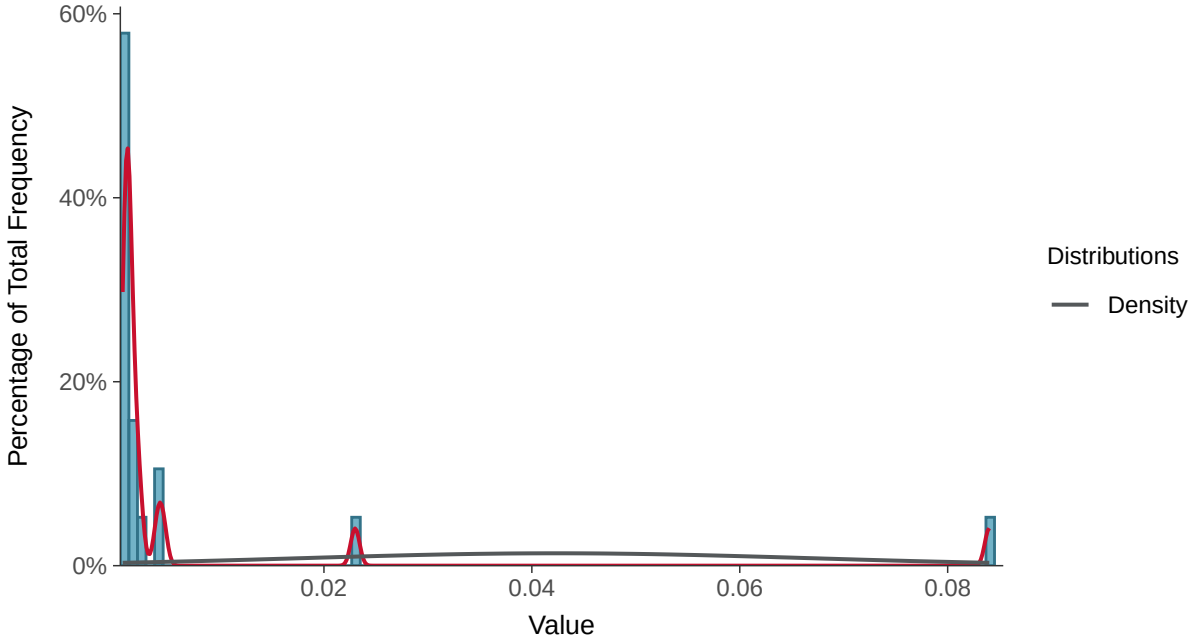
Scatter Plot

Cobalt, MW-01R (mg/L)



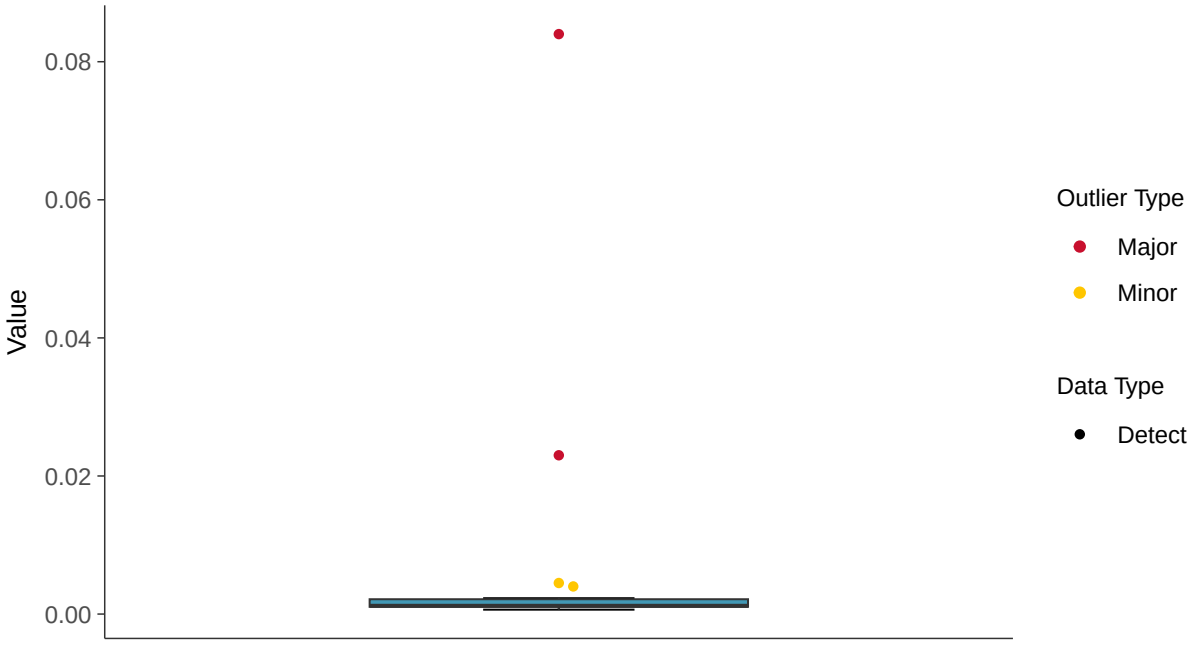
Histogram

Cobalt, MW-01R (mg/L)



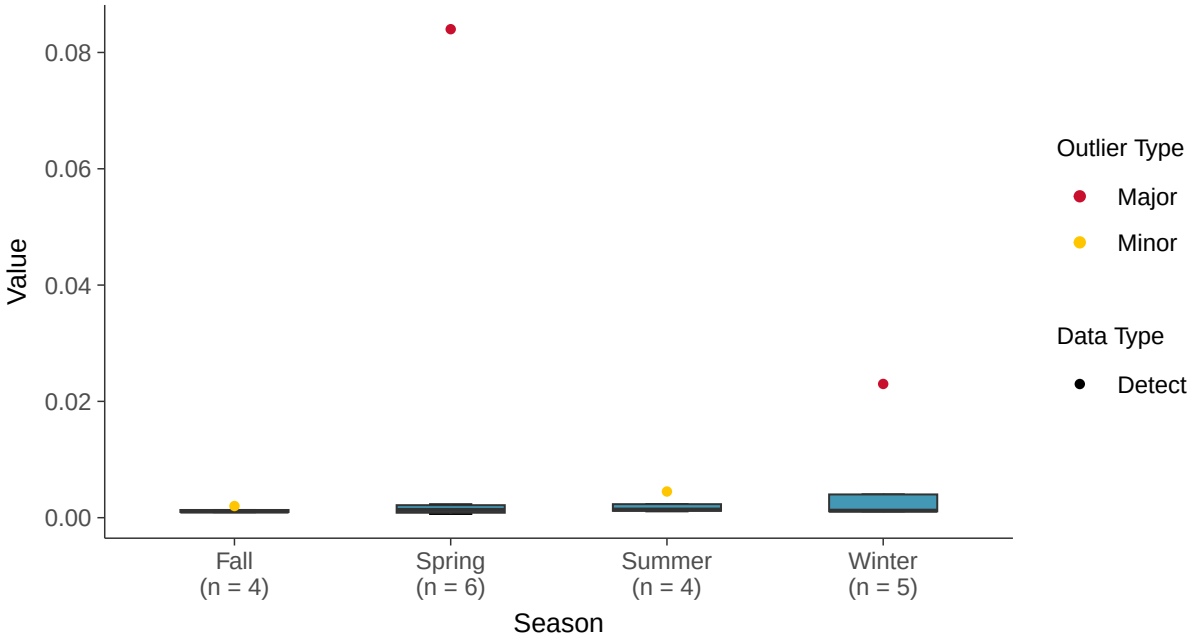
Boxplot

Cobalt, MW-01R (mg/L)



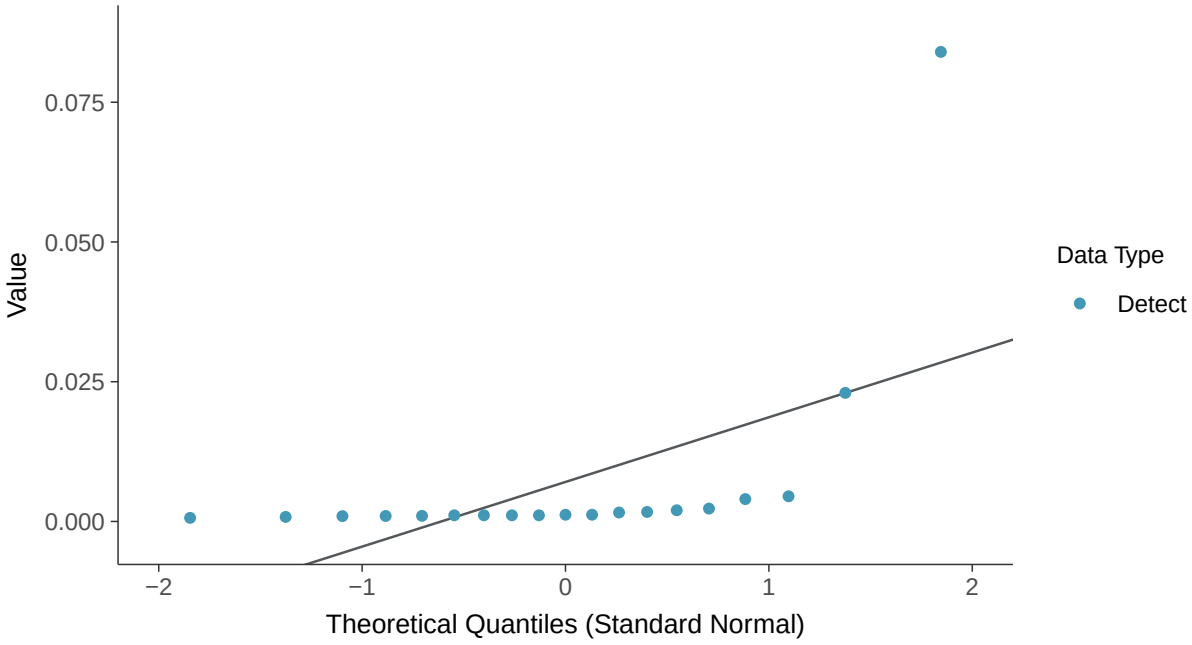
Boxplot by Season

Cobalt, MW-01R (mg/L)



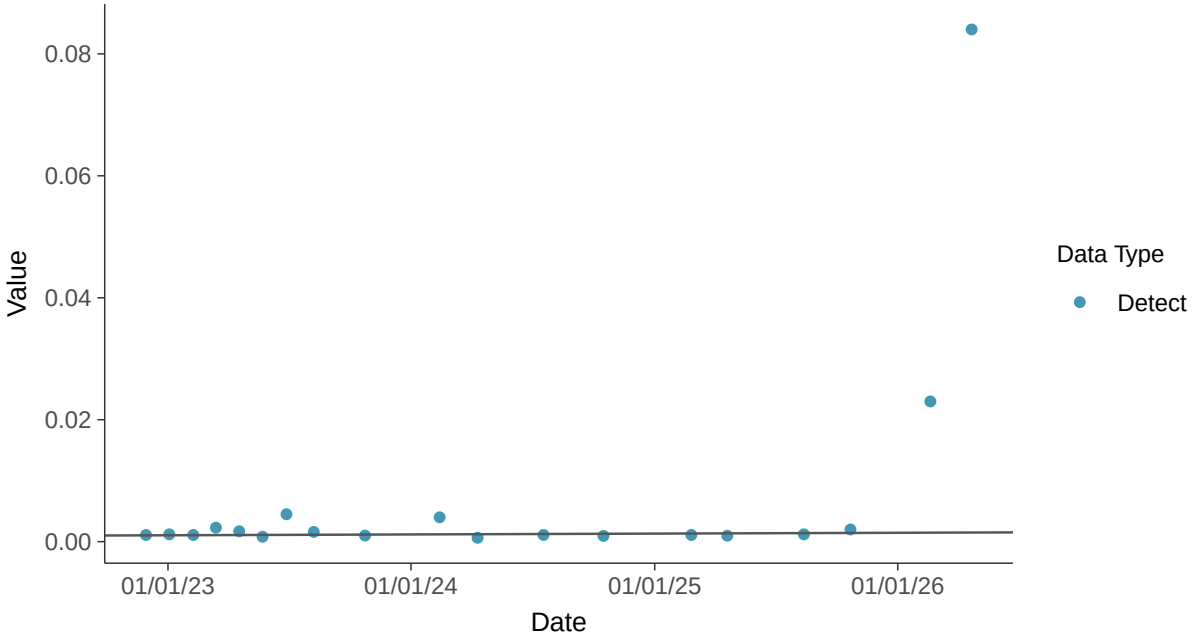
Normal Q-Q plot

Cobalt, MW-01R (mg/L)



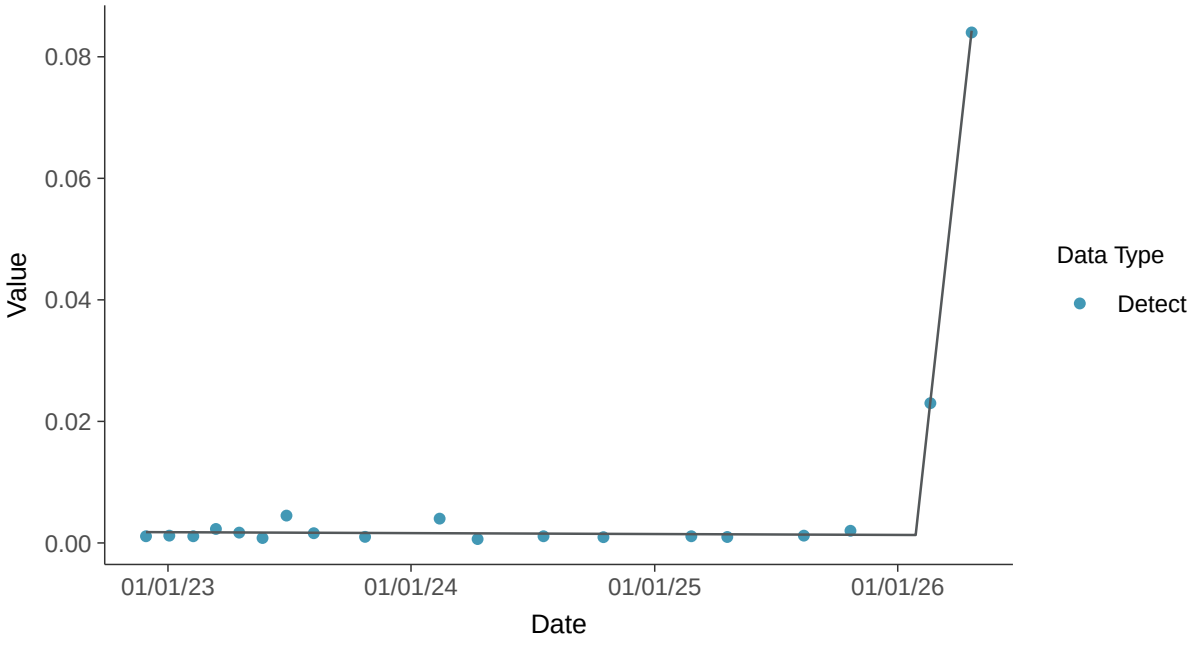
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-01R (mg/L)



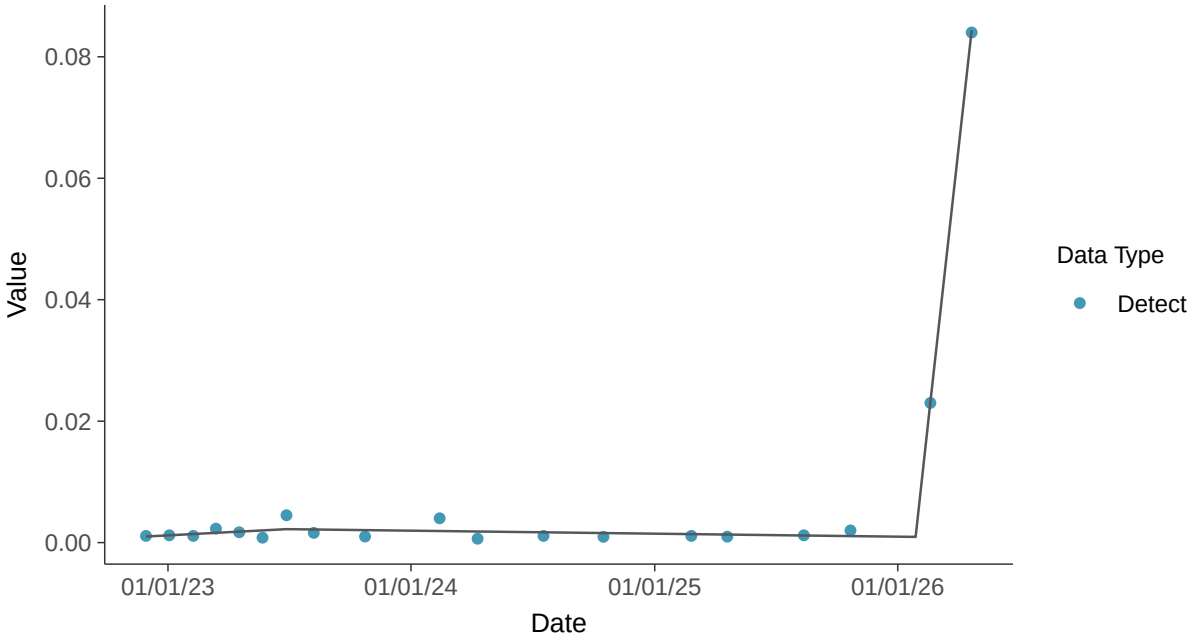
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-01R (mg/L)

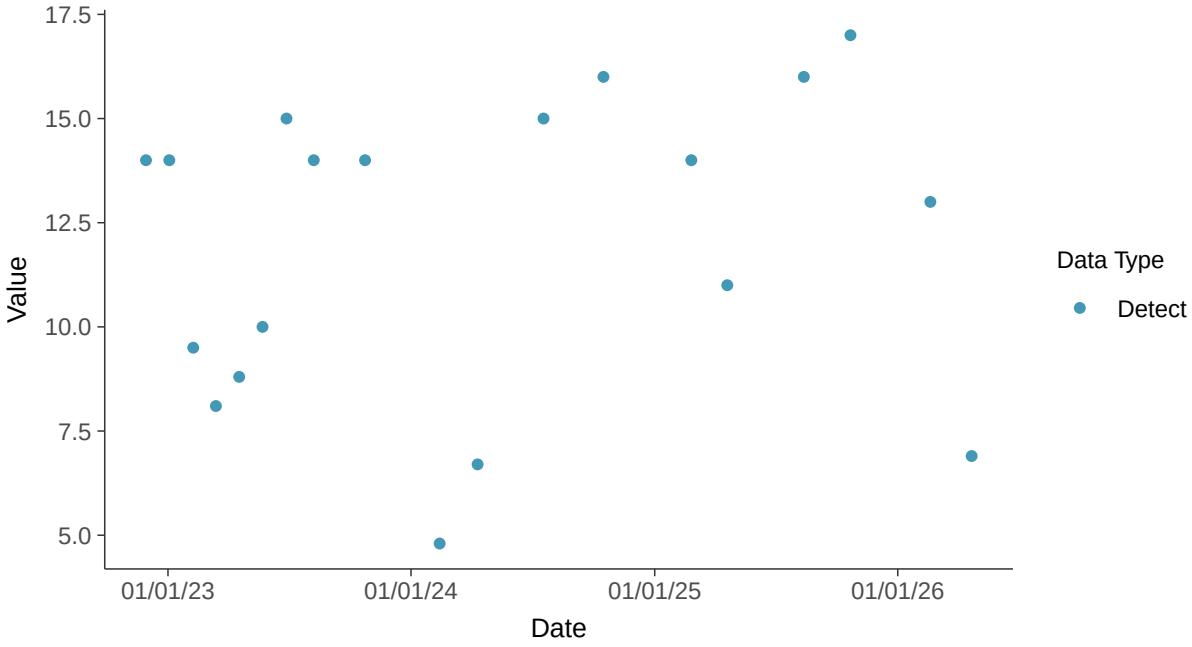


Appendix IV: Fluoride (App IV), MW-01R

ID: 11_2_4_113

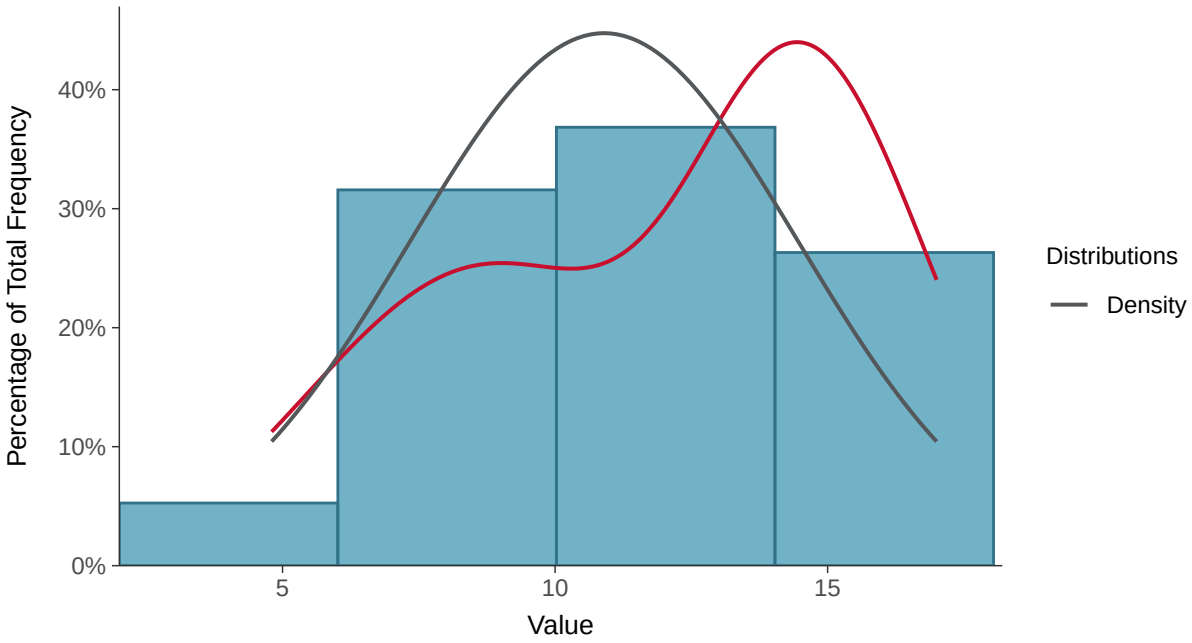
Scatter Plot

Fluoride (App IV), MW-01R (mg/L)



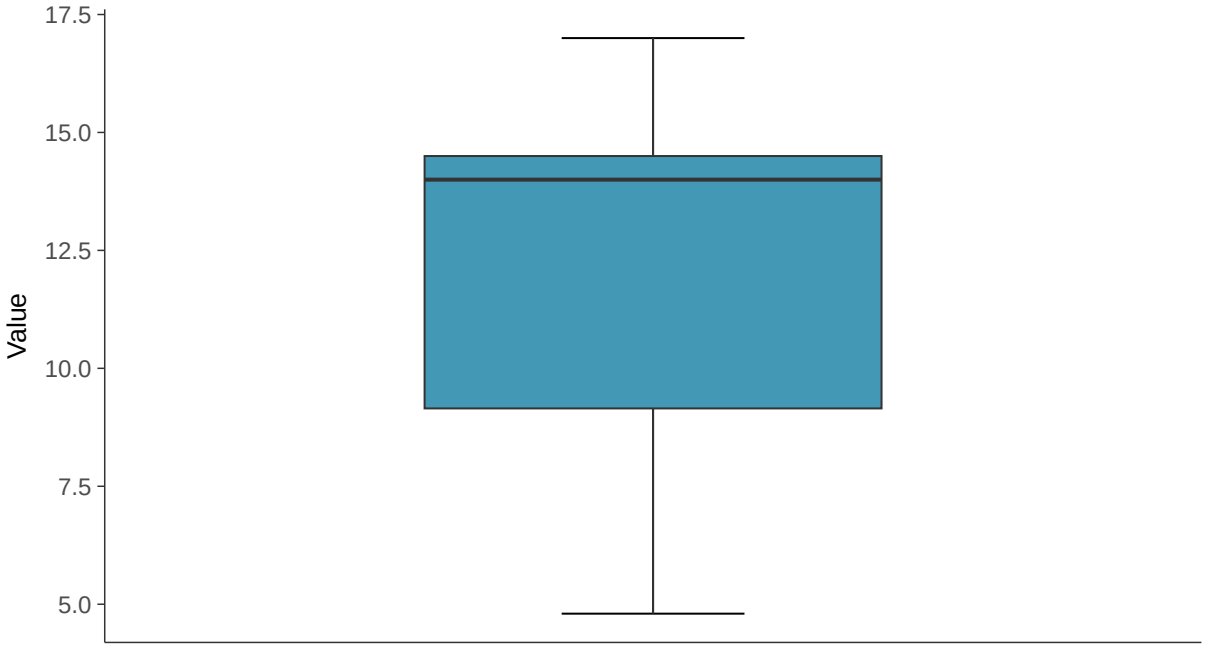
Histogram

Fluoride (App IV), MW-01R (mg/L)



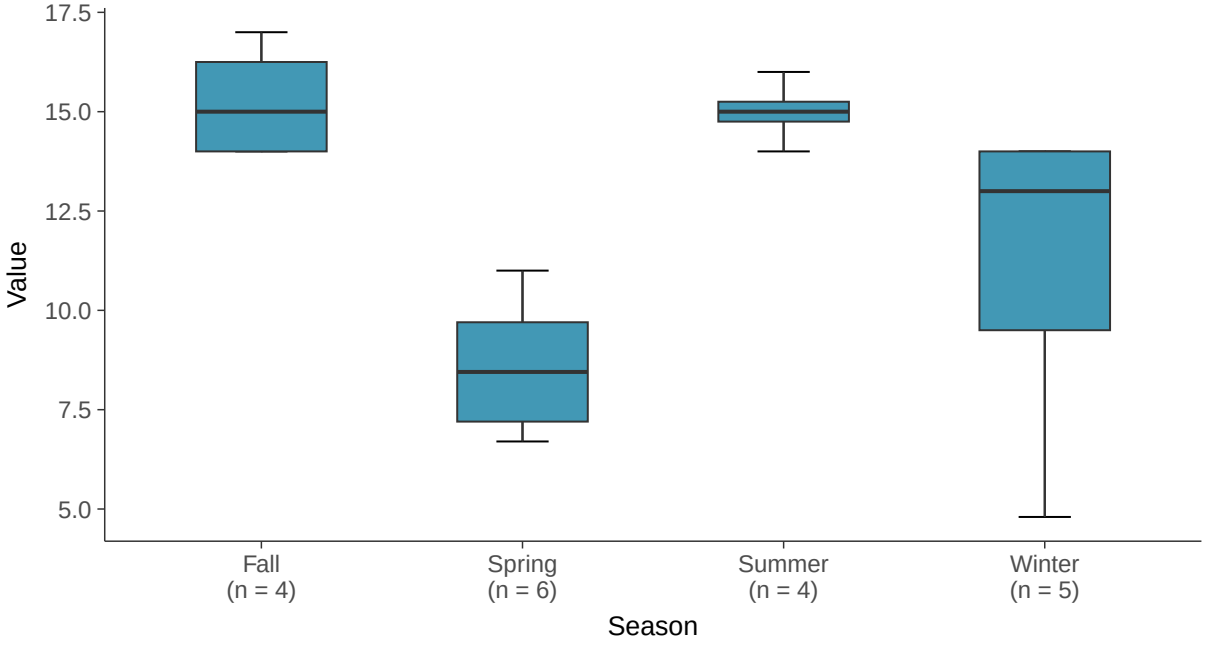
Boxplot

Fluoride (App IV), MW-01R (mg/L)



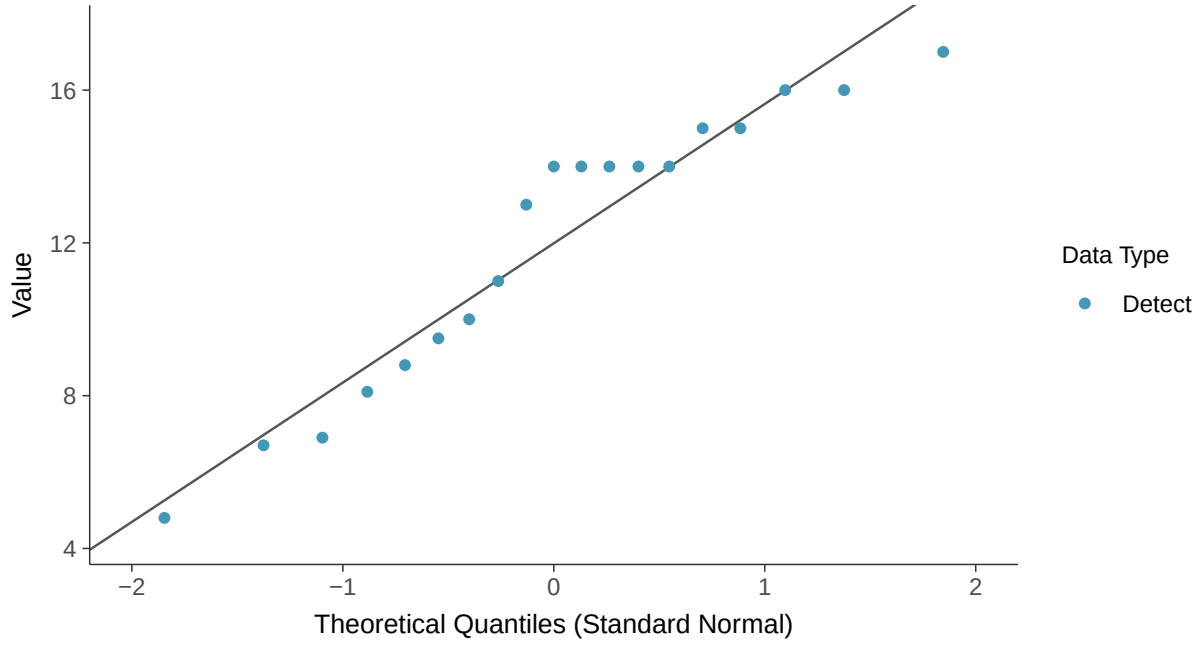
Boxplot by Season

Fluoride (App IV), MW-01R (mg/L)



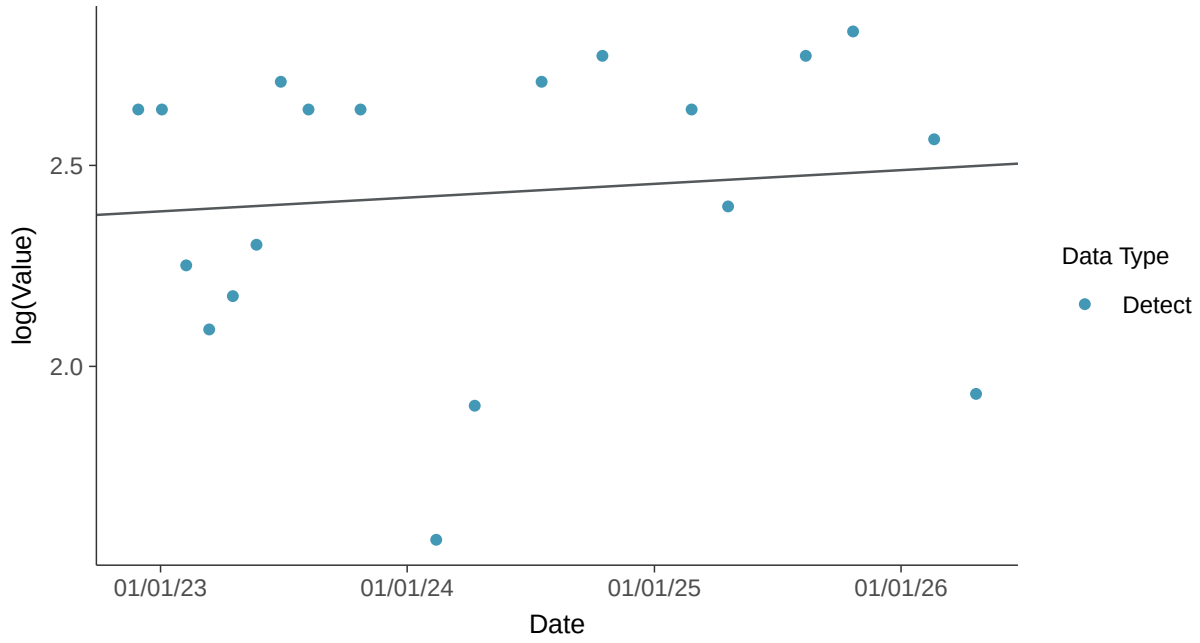
Normal Q-Q plot

Fluoride (App IV), MW-01R (mg/L)



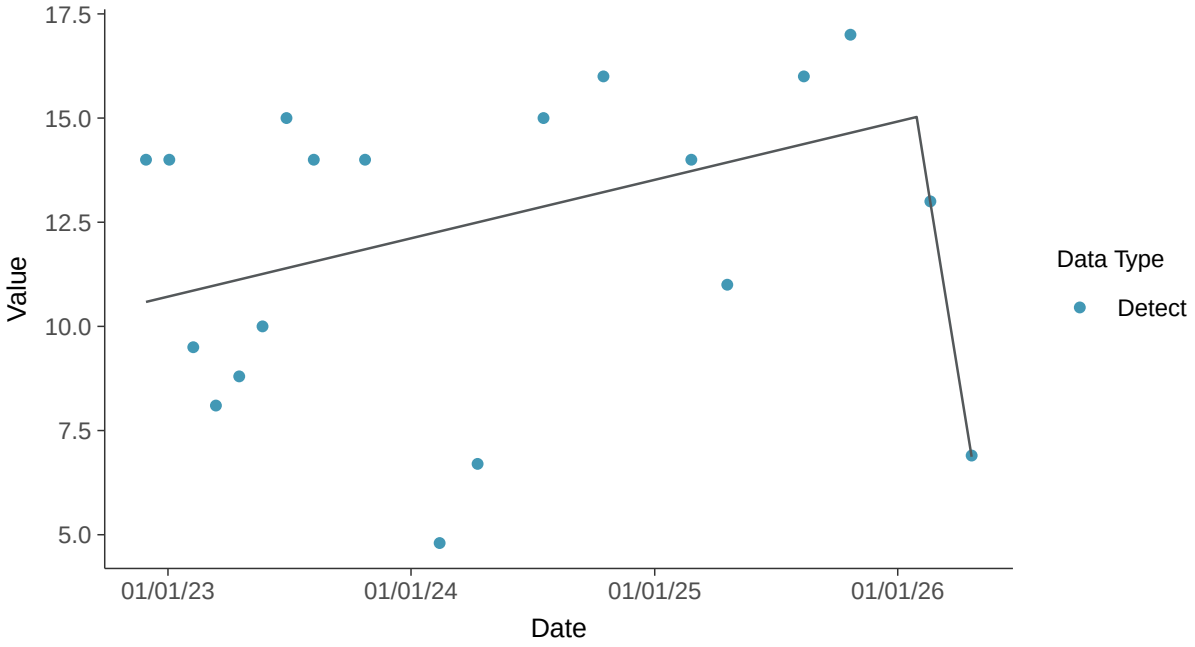
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-01R (mg/L)



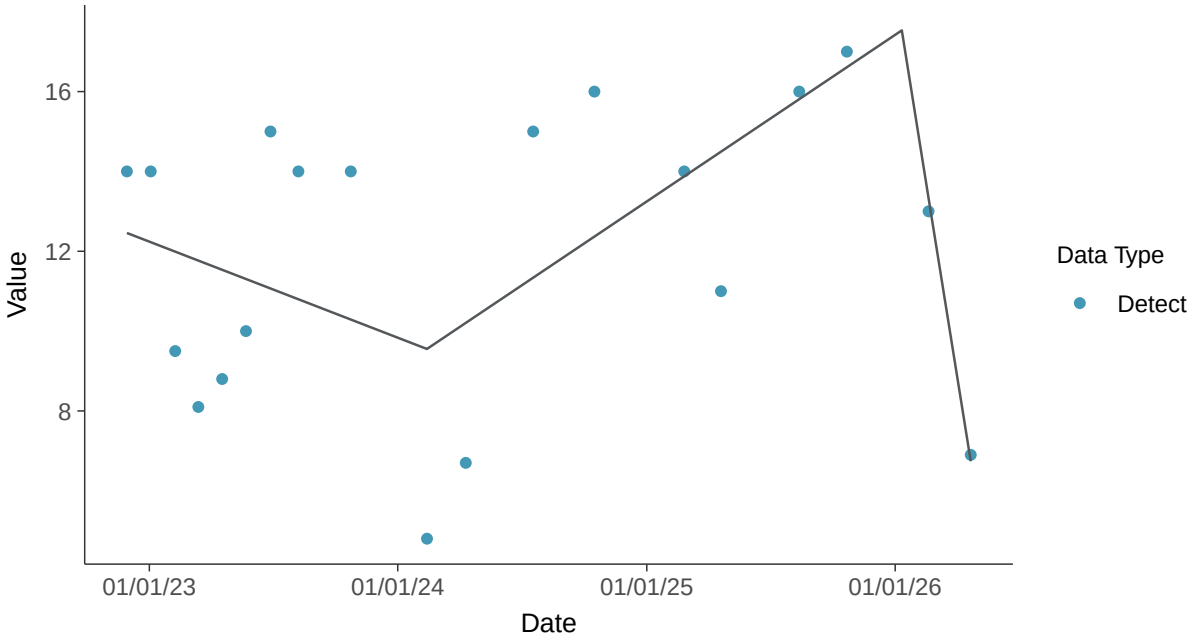
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-01R (mg/L)



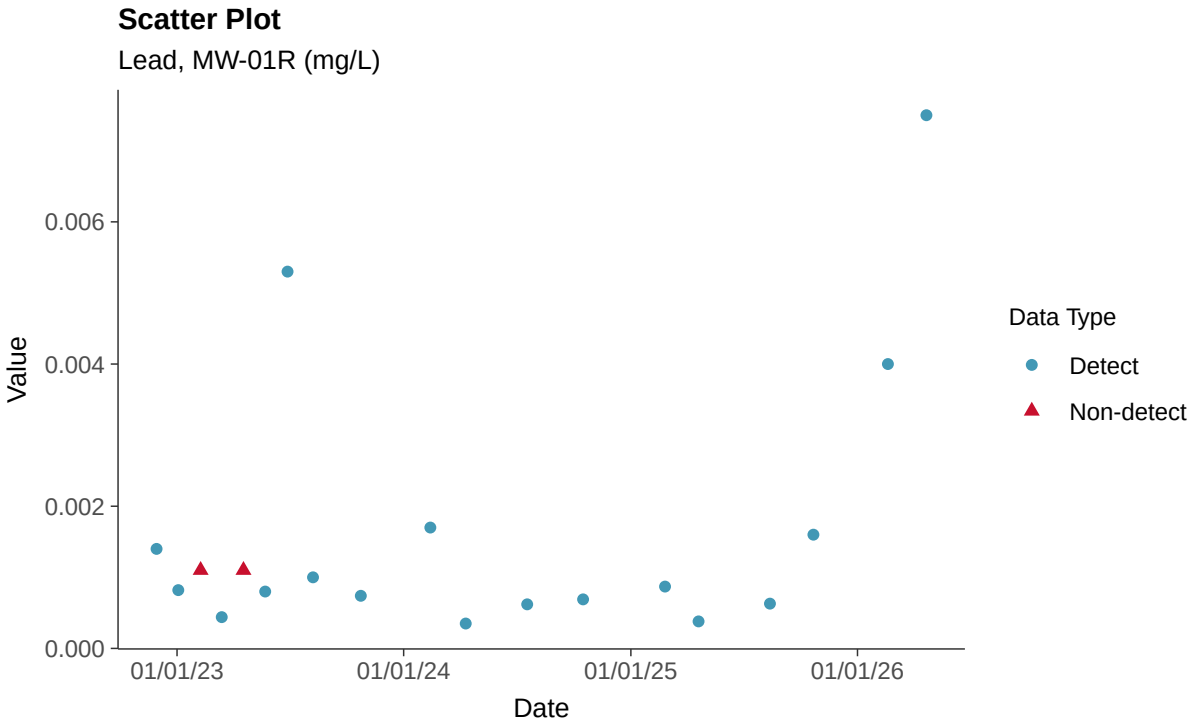
Trend Regression: Piecewise Linear-Linear-Linear

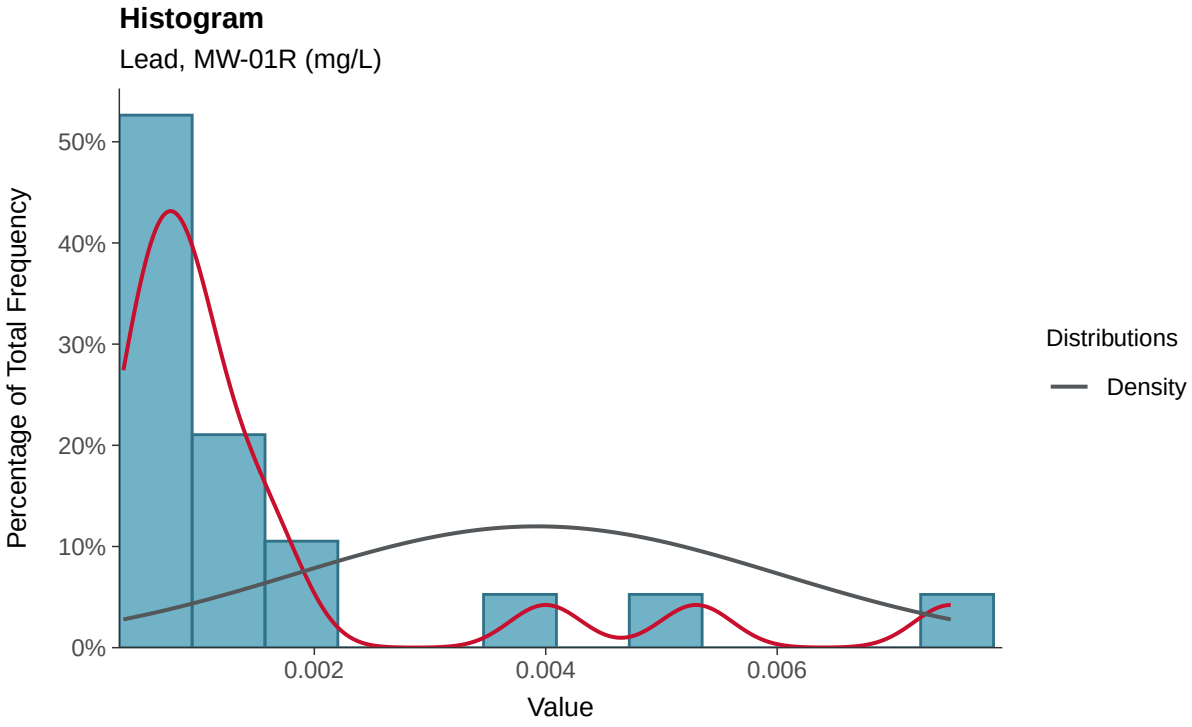
Fluoride (App IV), MW-01R (mg/L)



Appendix IV: Lead, MW-01R

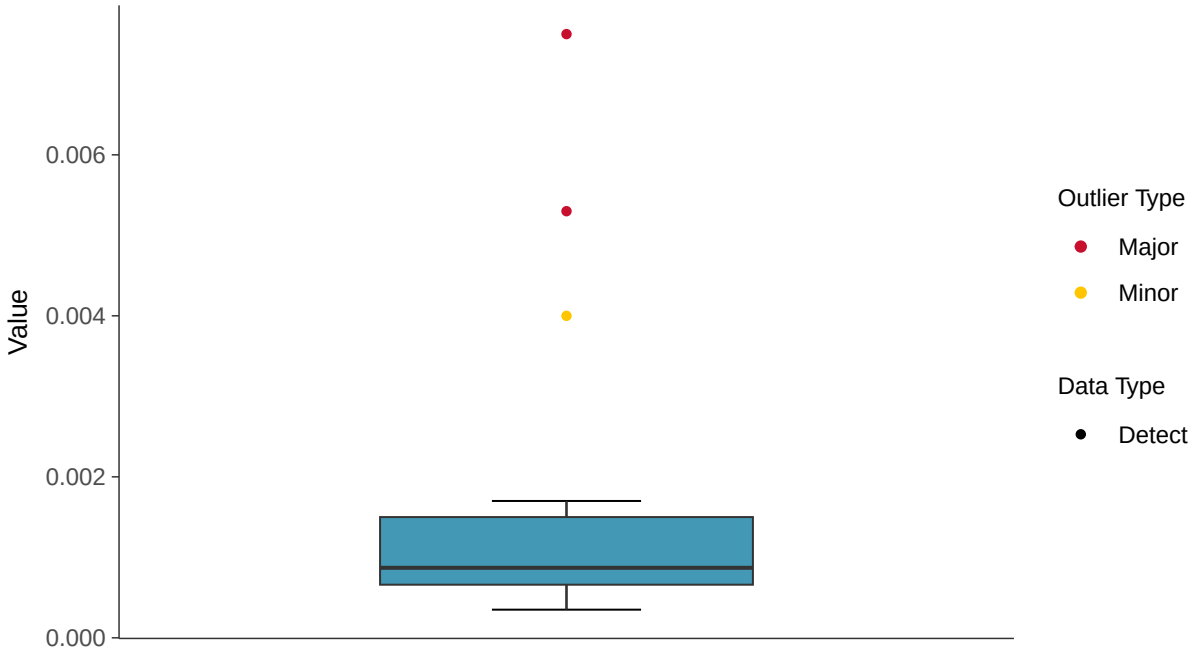
ID: 11_2_4_115





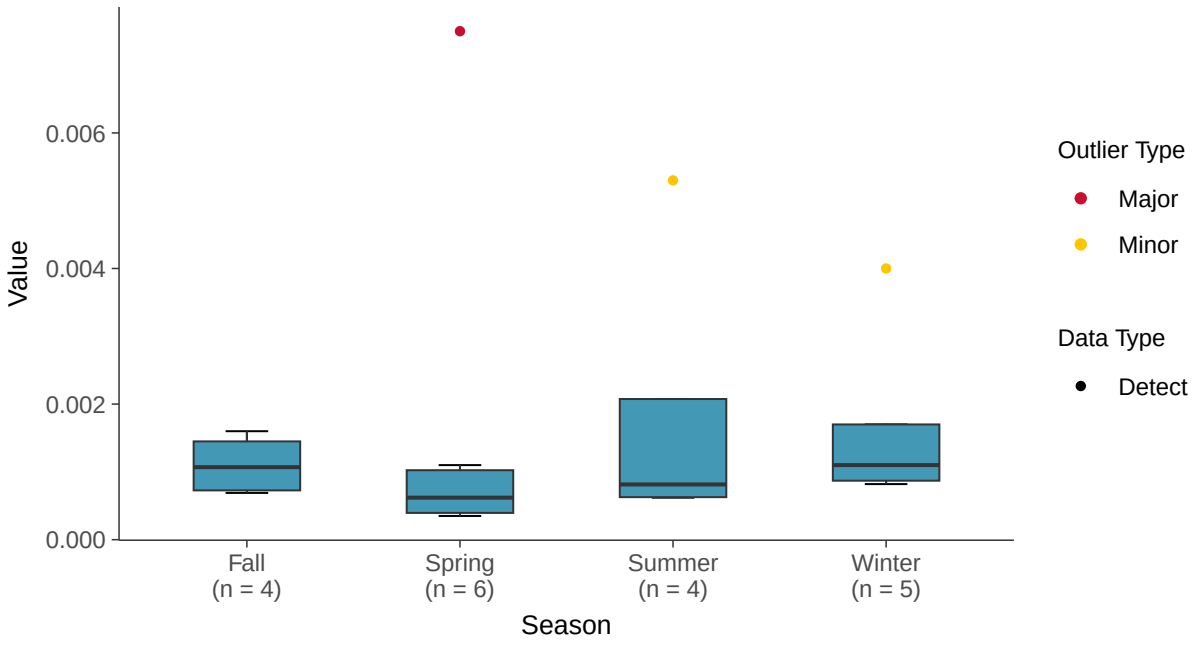
Boxplot

Lead, MW-01R (mg/L)



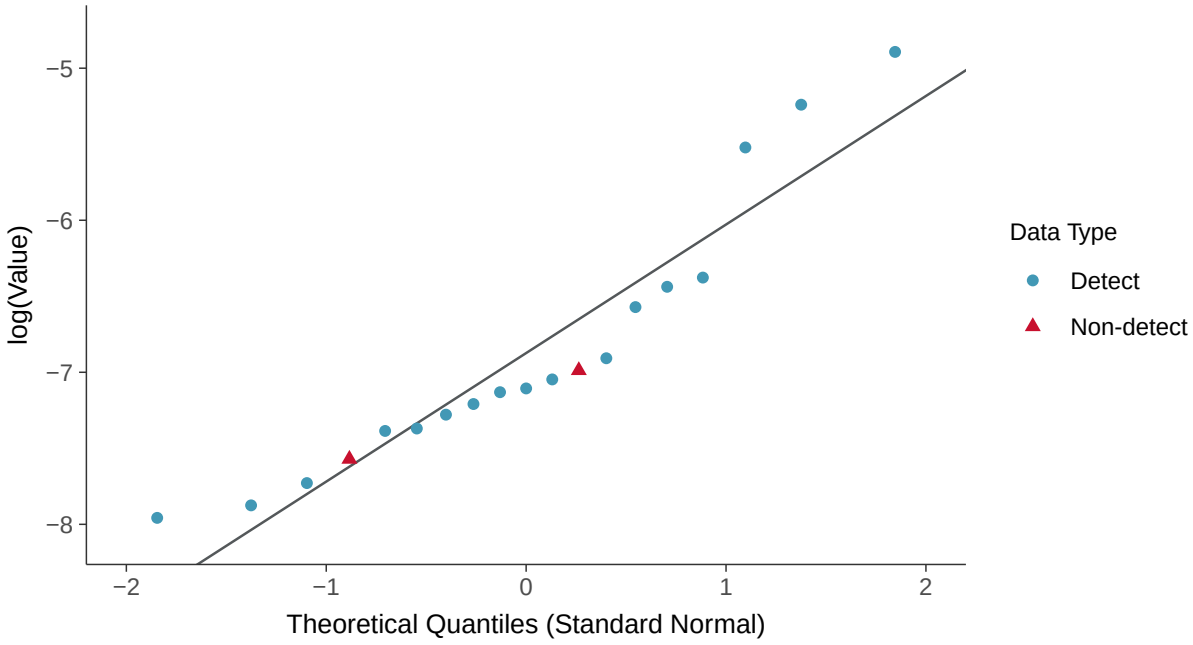
Boxplot by Season

Lead, MW-01R (mg/L)



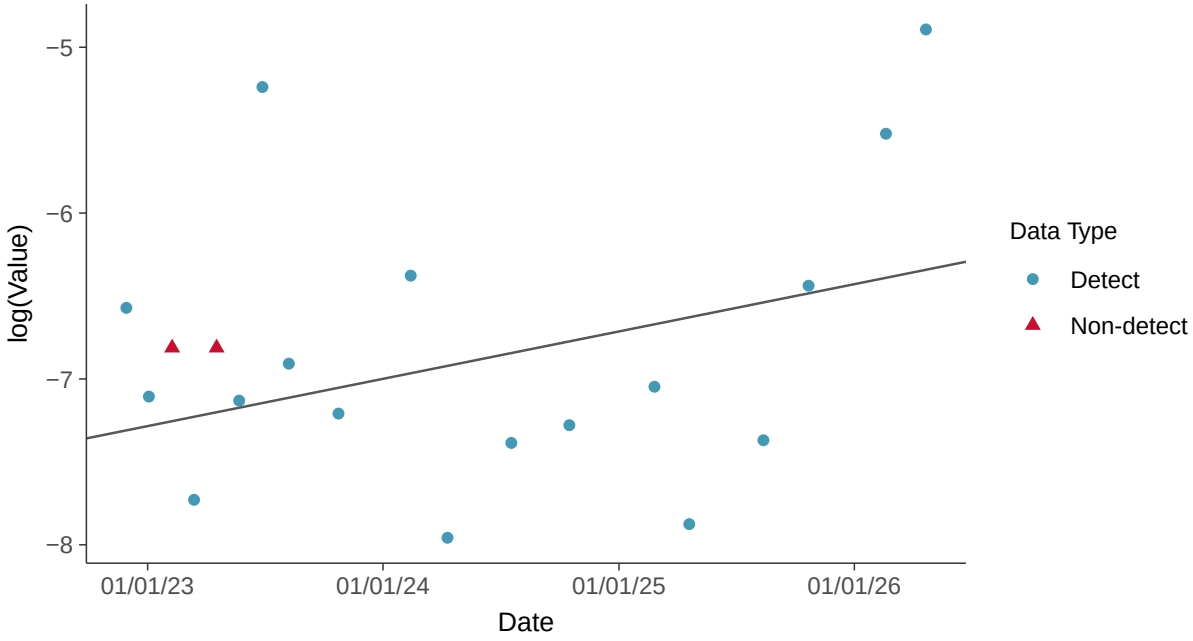
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-01R (mg/L)



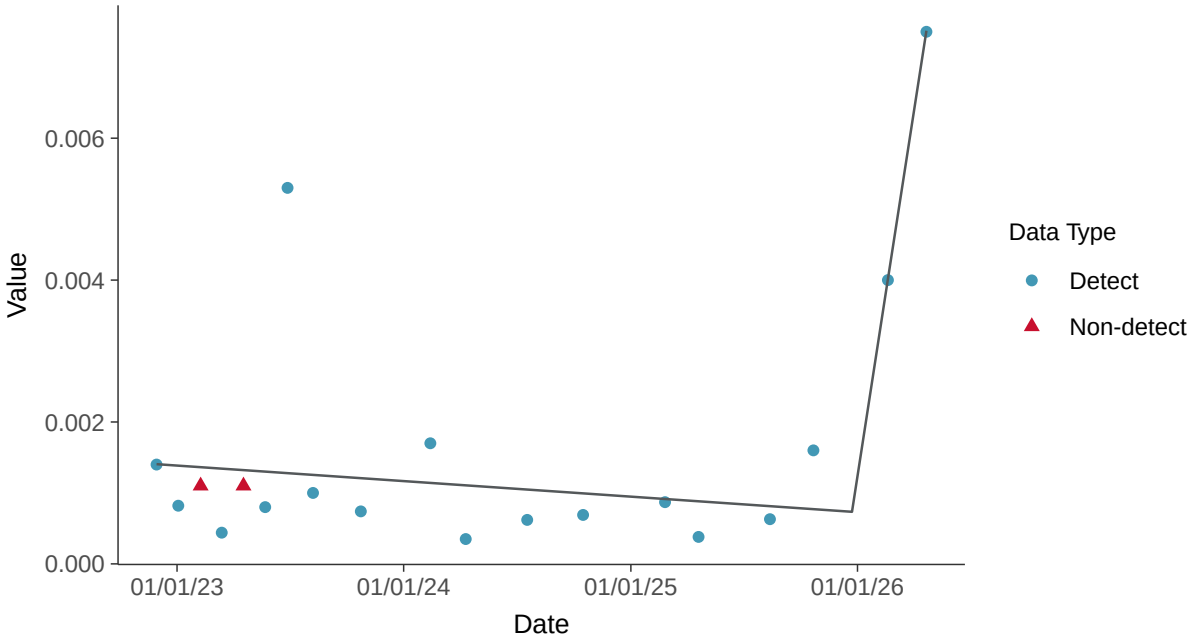
Trend Regression: Lognormal MLE

Lead, MW-01R (mg/L)



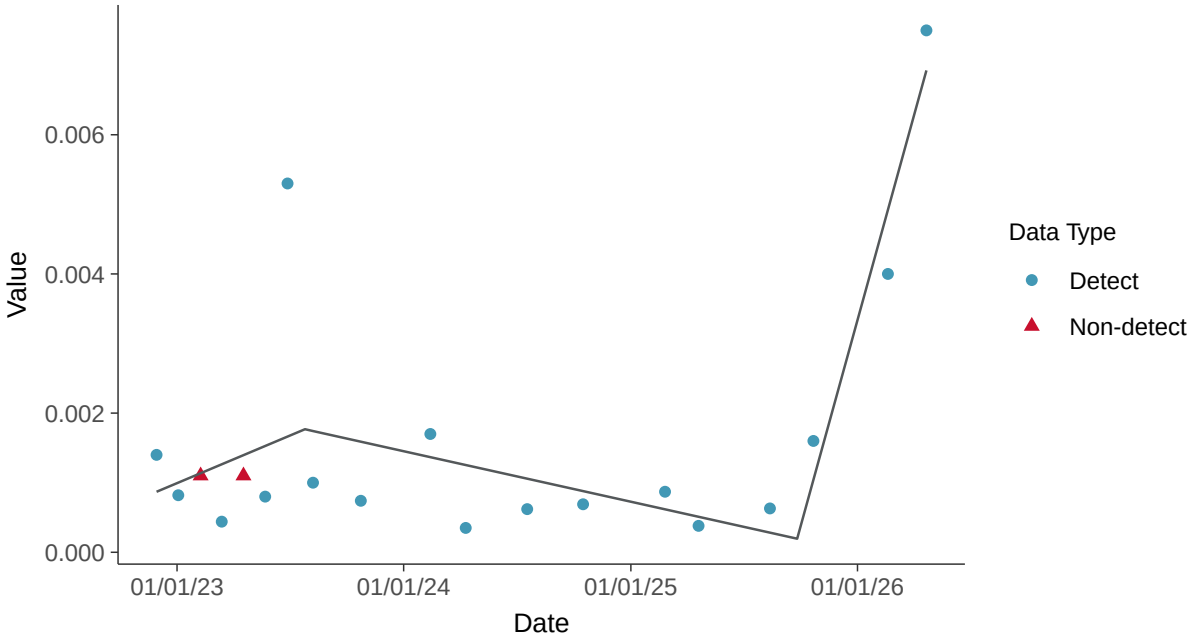
Trend Regression: Piecewise Linear-Linear

Lead, MW-01R (mg/L)



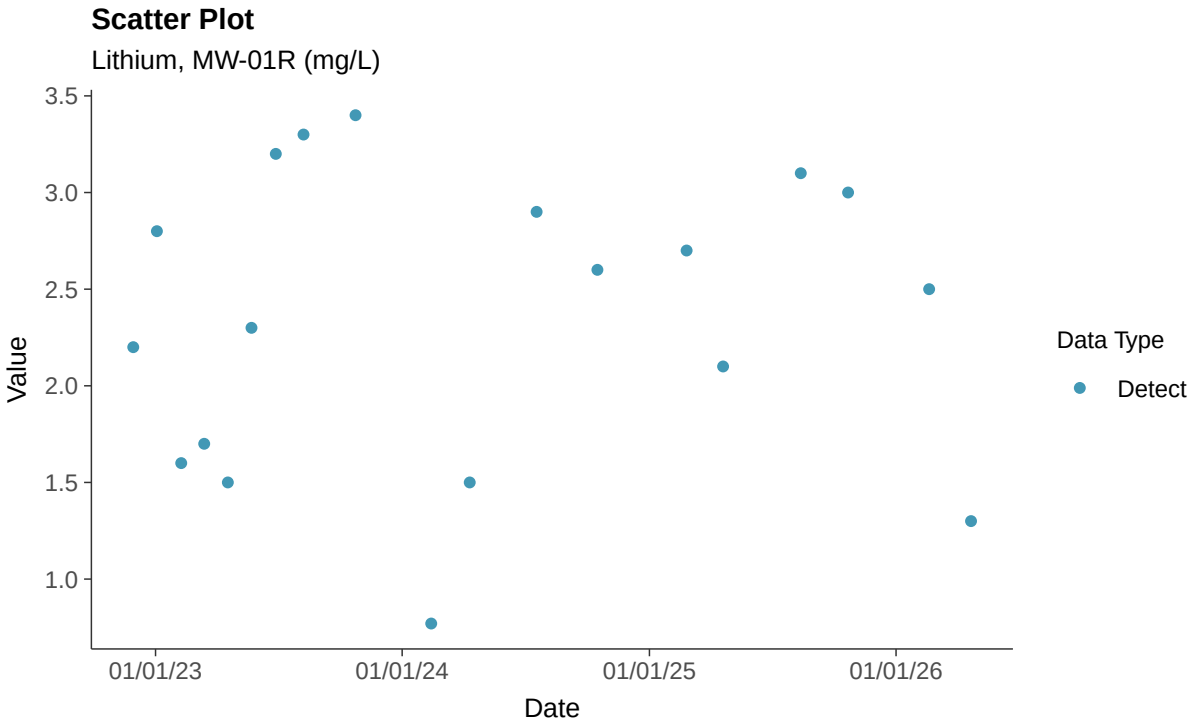
Trend Regression: Piecewise Linear-Linear-Linear

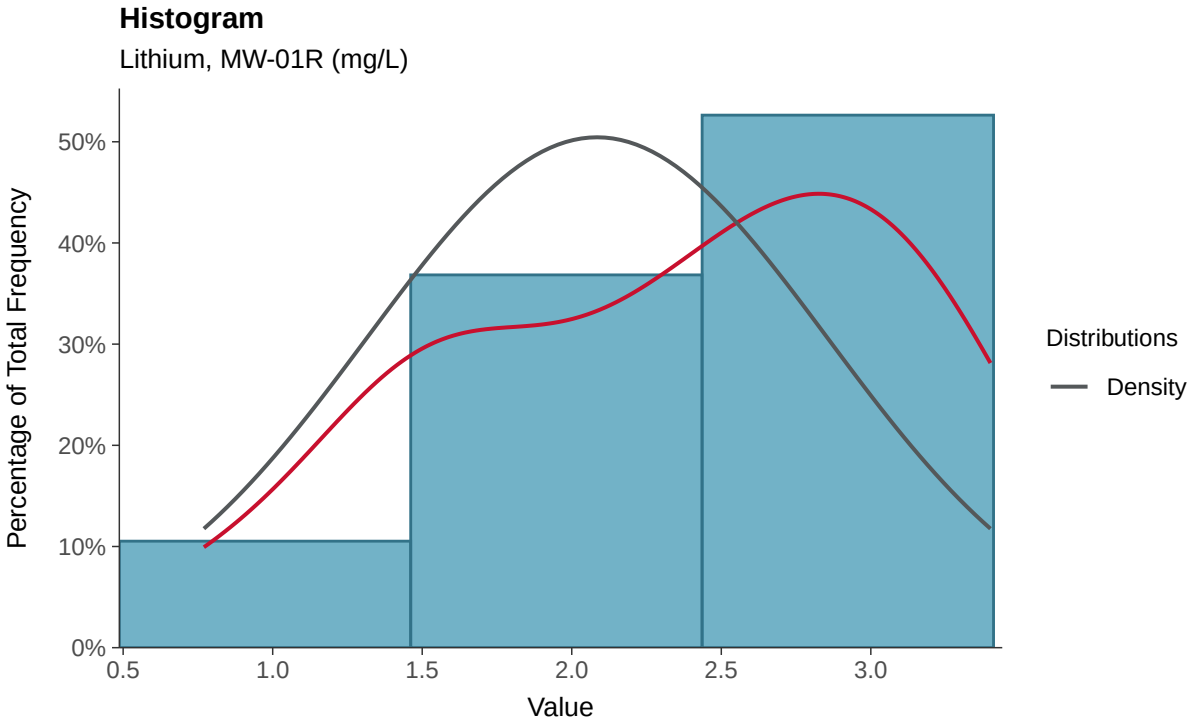
Lead, MW-01R (mg/L)



Appendix IV: Lithium, MW-01R

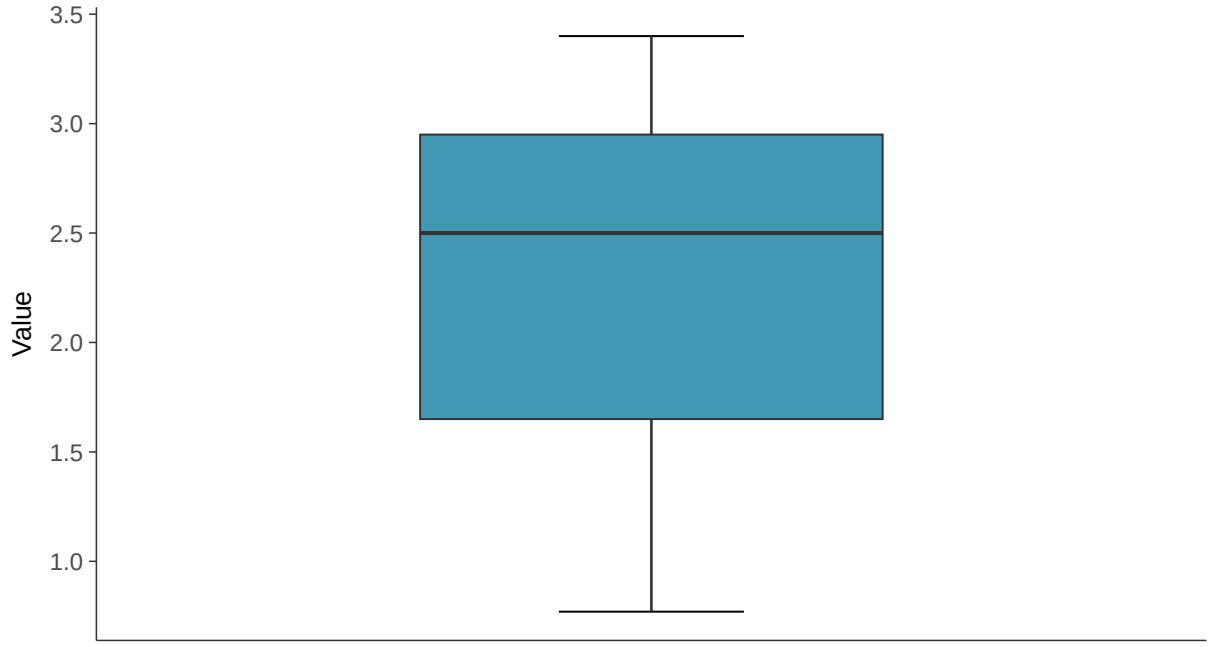
ID: 11_2_4_116





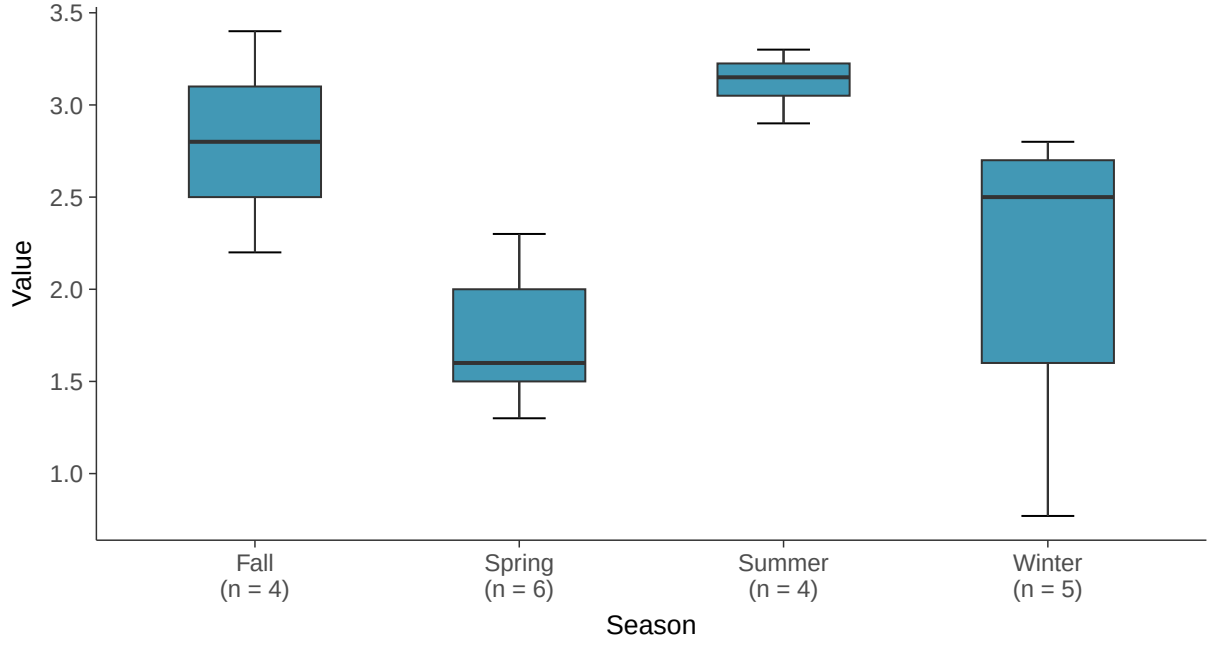
Boxplot

Lithium, MW-01R (mg/L)



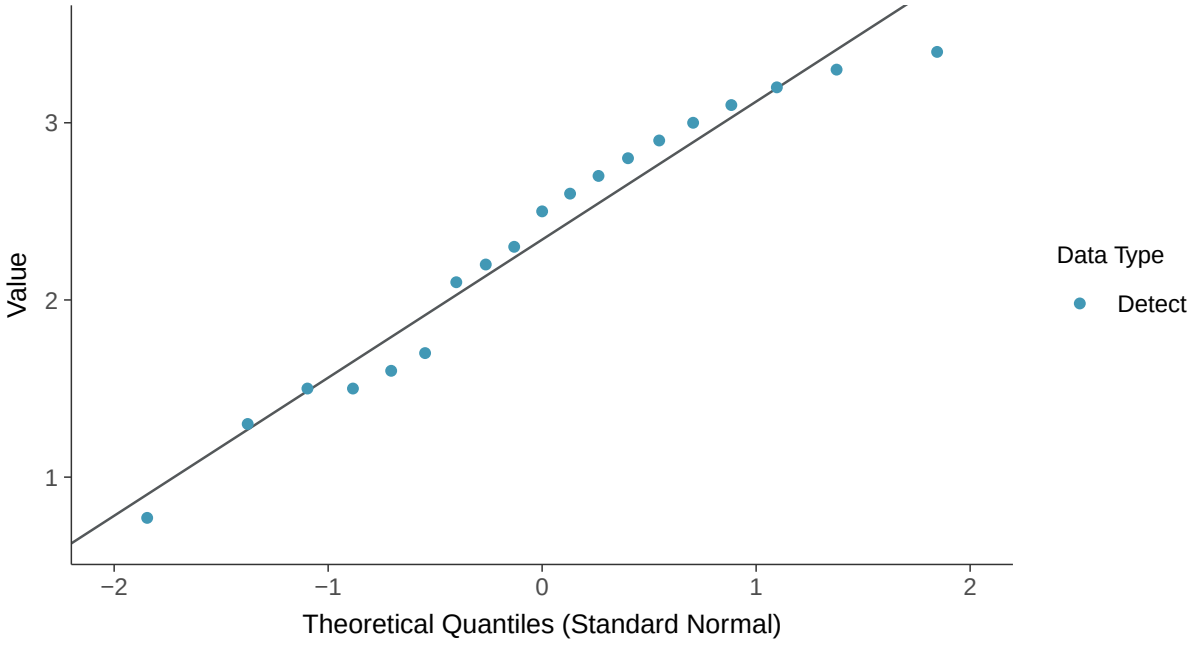
Boxplot by Season

Lithium, MW-01R (mg/L)



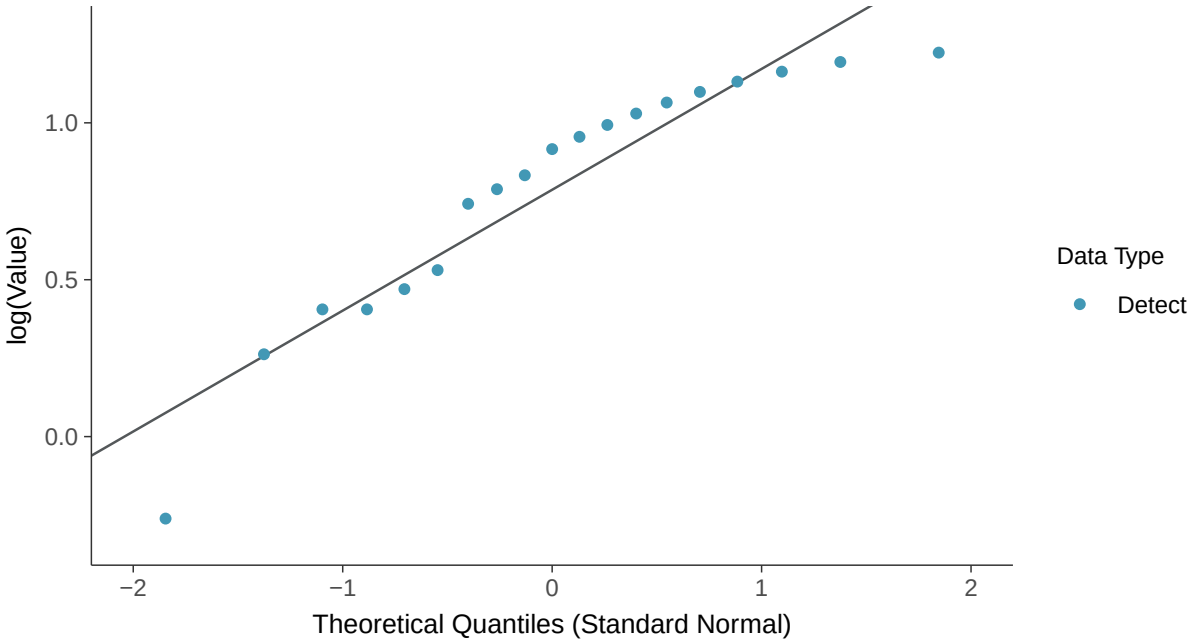
Normal Q-Q plot

Lithium, MW-01R (mg/L)



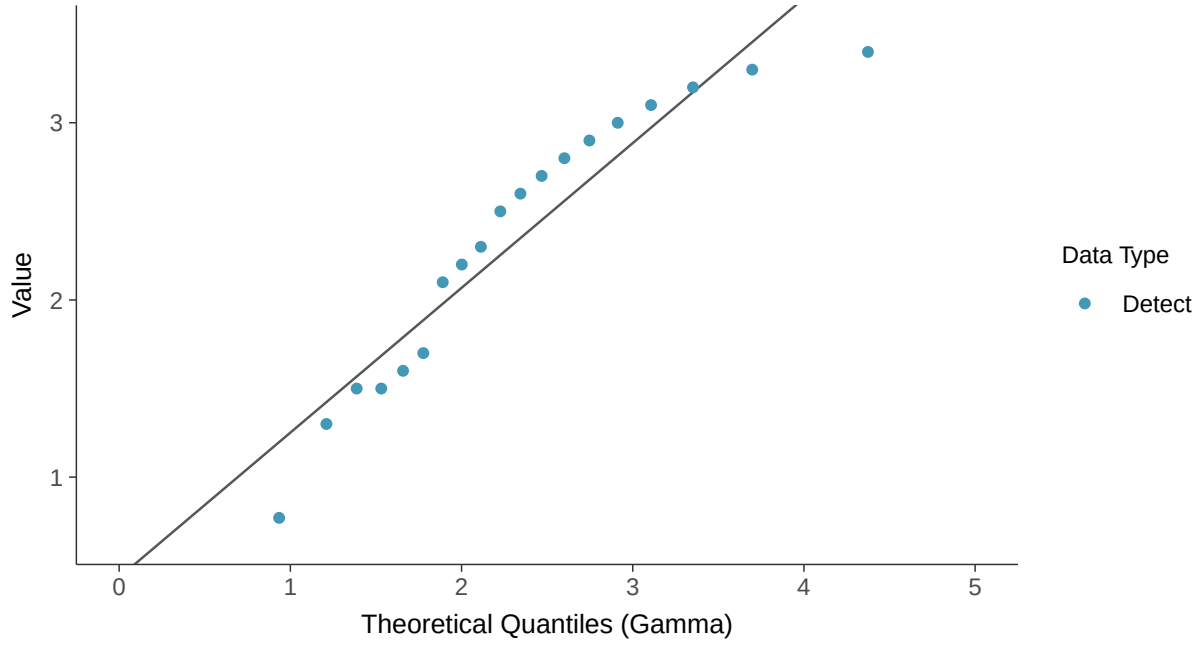
Lognormal Q-Q plot

Lithium, MW-01R (mg/L)



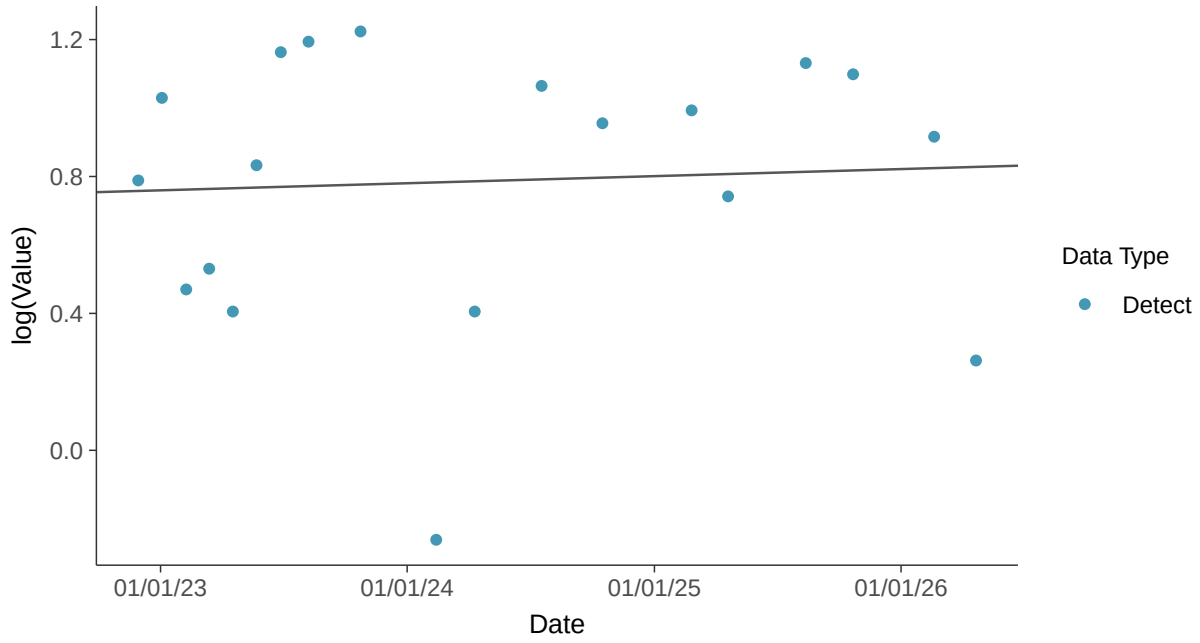
Gamma Q-Q plot

Lithium, MW-01R (mg/L)



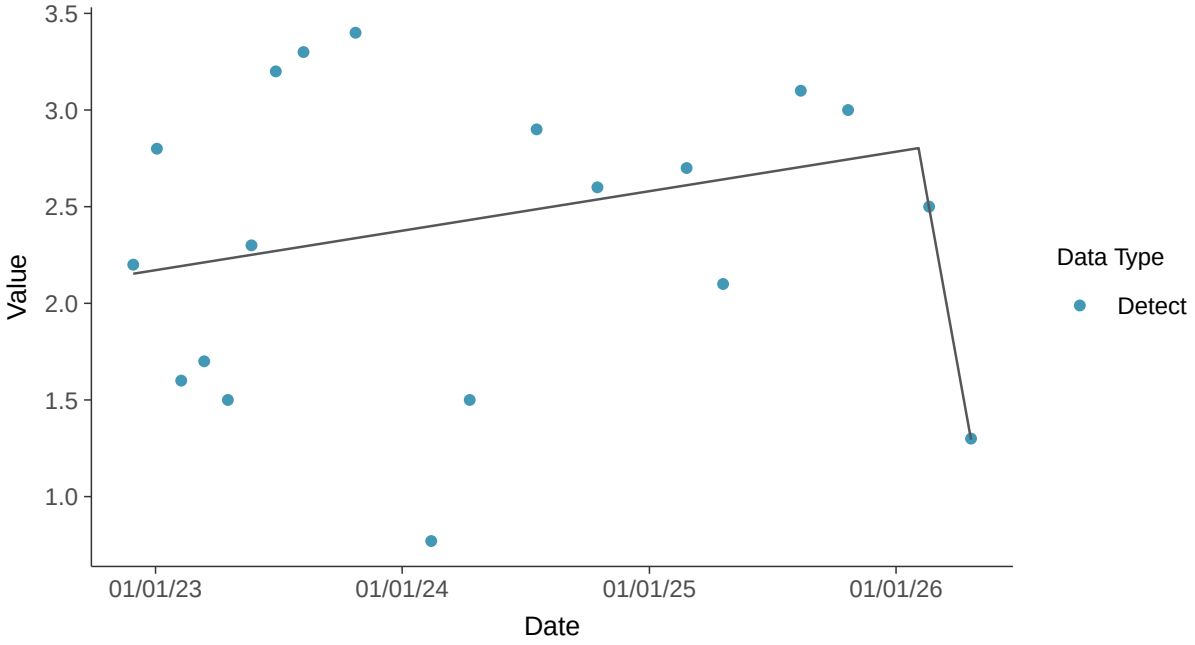
Trend Regression: Lognormal MLE

Lithium, MW-01R (mg/L)



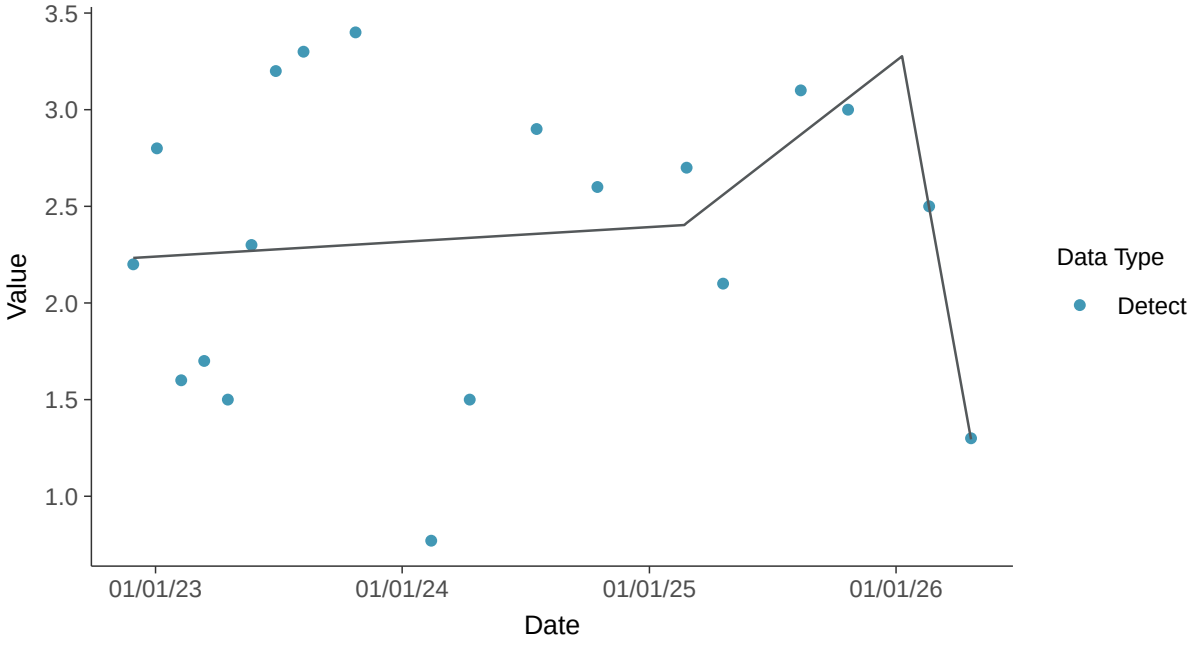
Trend Regression: Piecewise Linear-Linear

Lithium, MW-01R (mg/L)



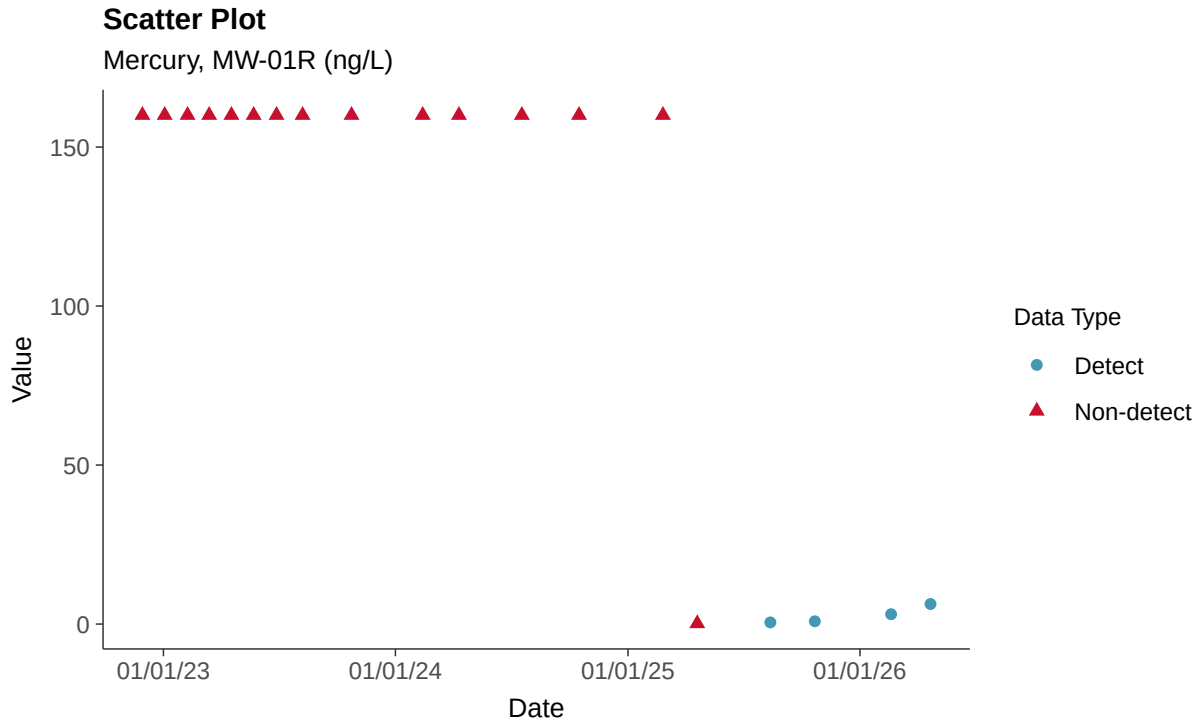
Trend Regression: Piecewise Linear-Linear-Linear

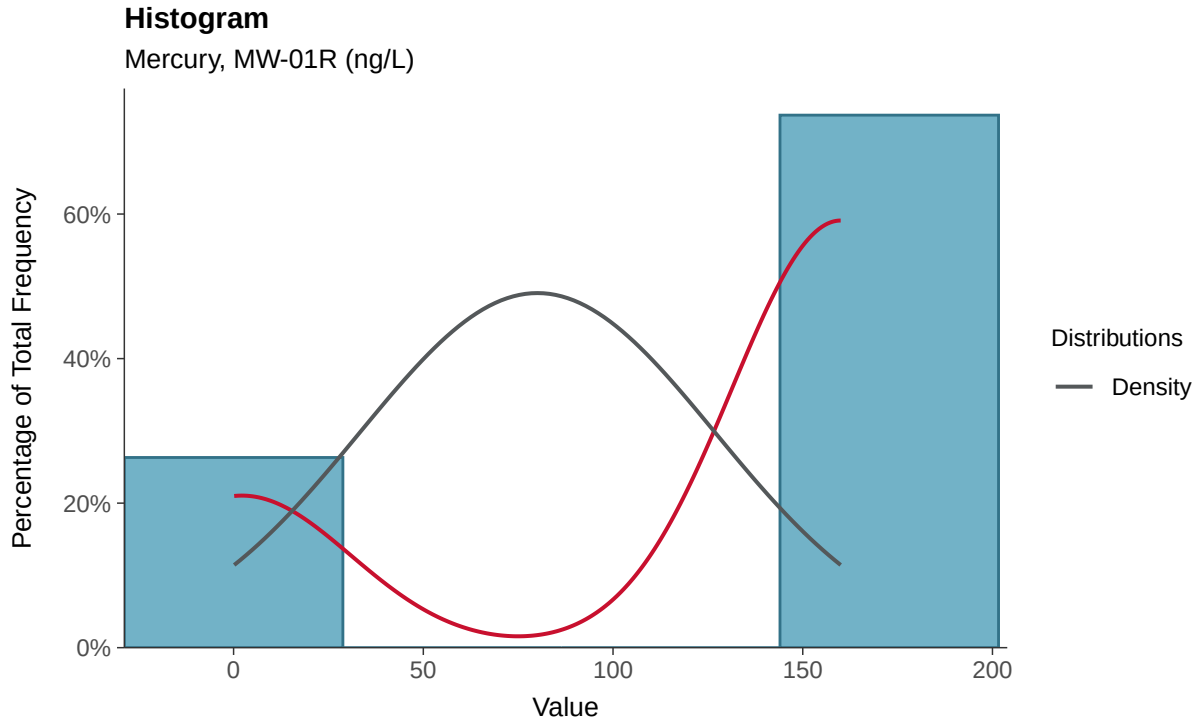
Lithium, MW-01R (mg/L)



Appendix IV: Mercury, MW-01R

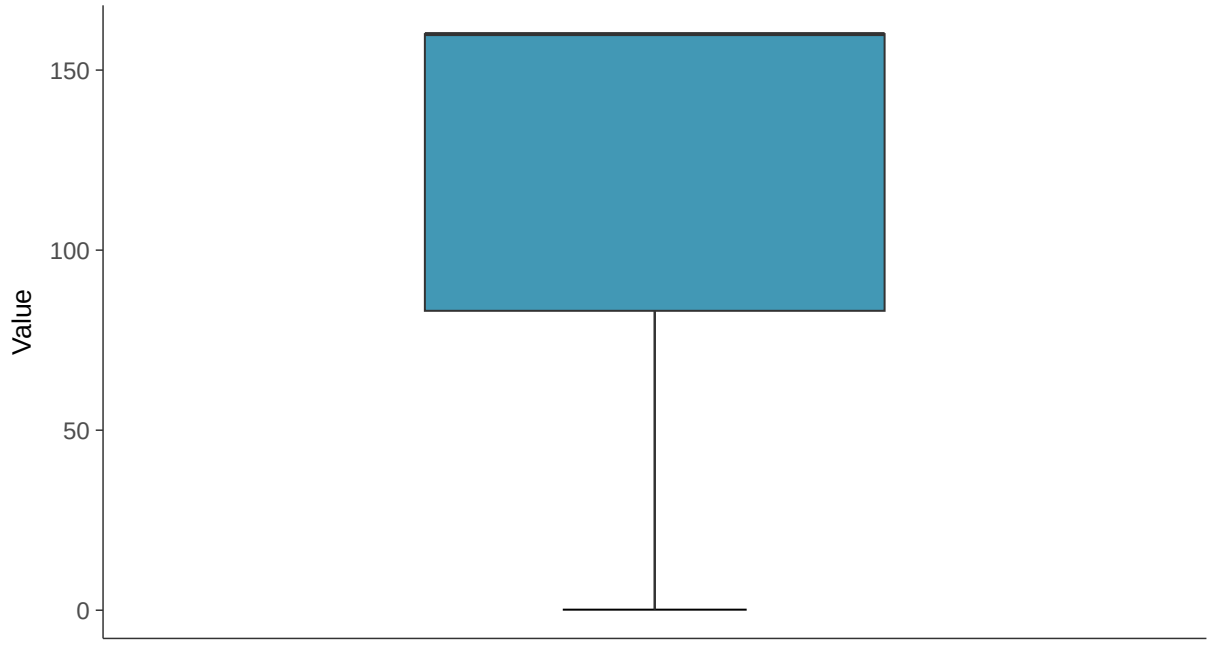
ID: 11_2_4_117





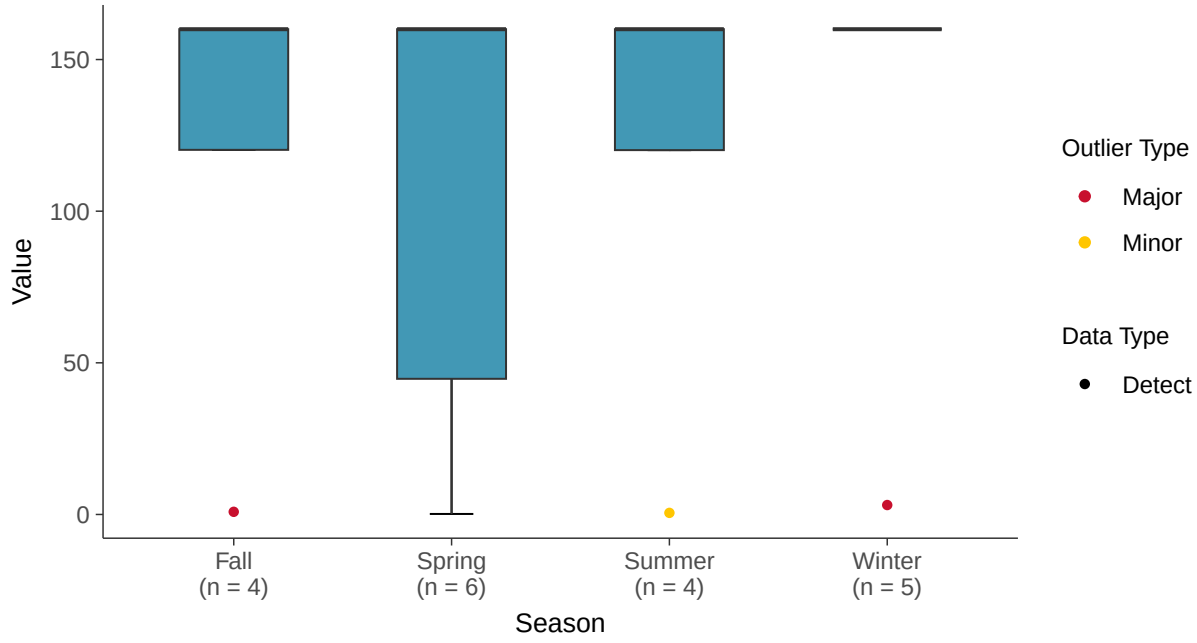
Boxplot

Mercury, MW-01R (ng/L)



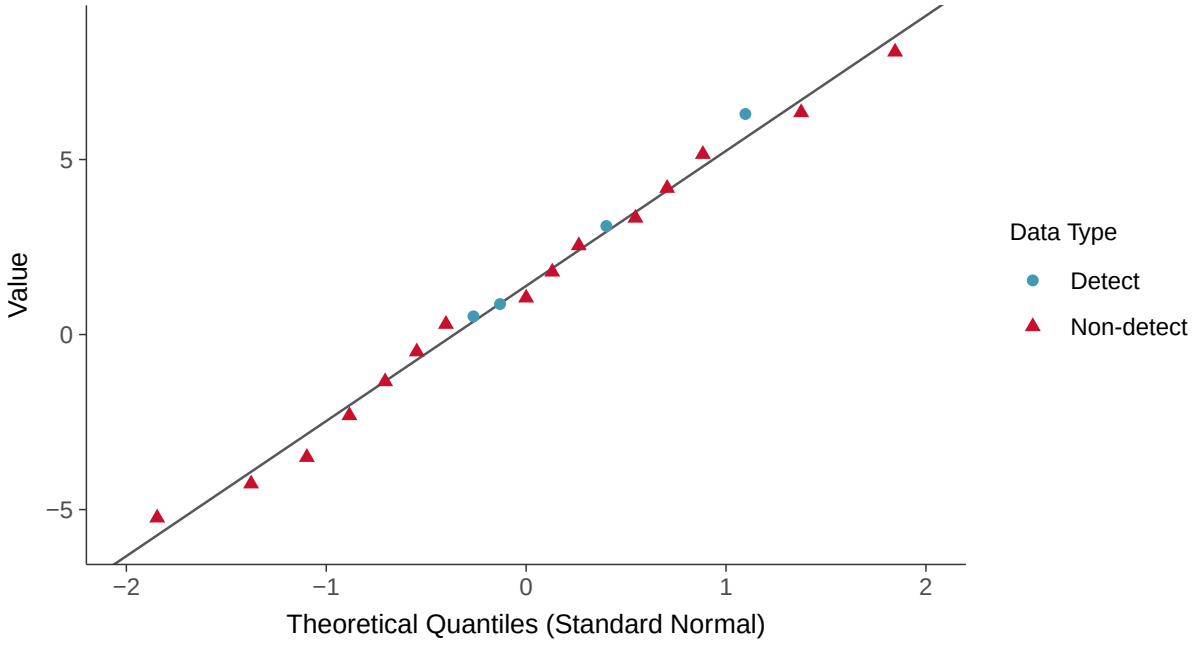
Boxplot by Season

Mercury, MW-01R (ng/L)



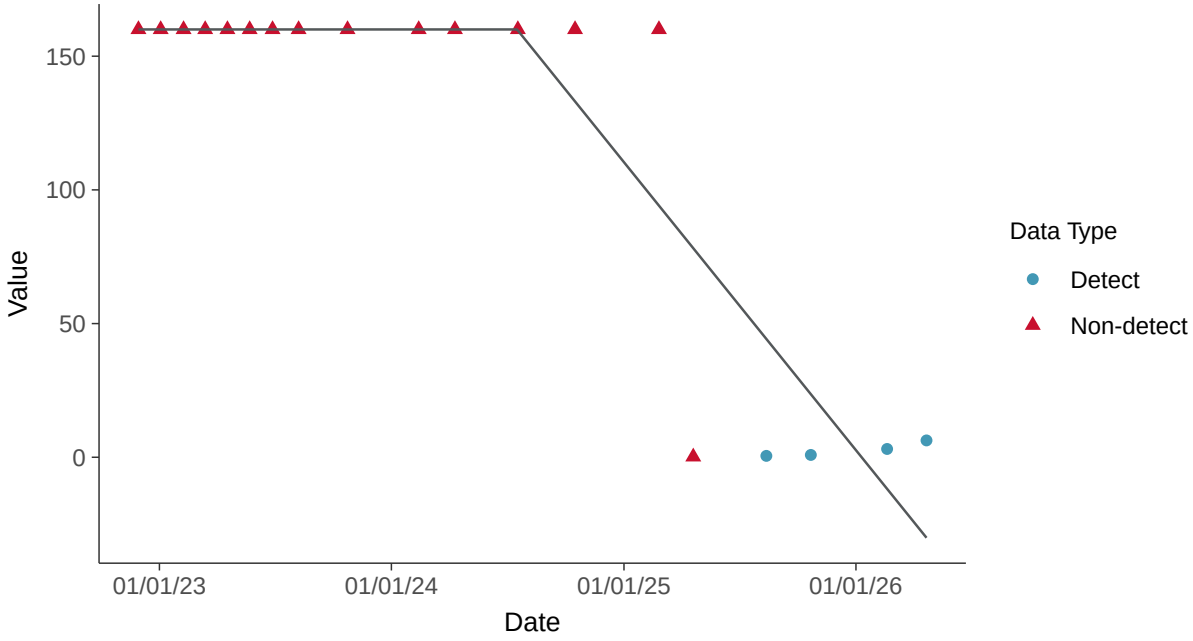
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-01R (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-01R (ng/L)

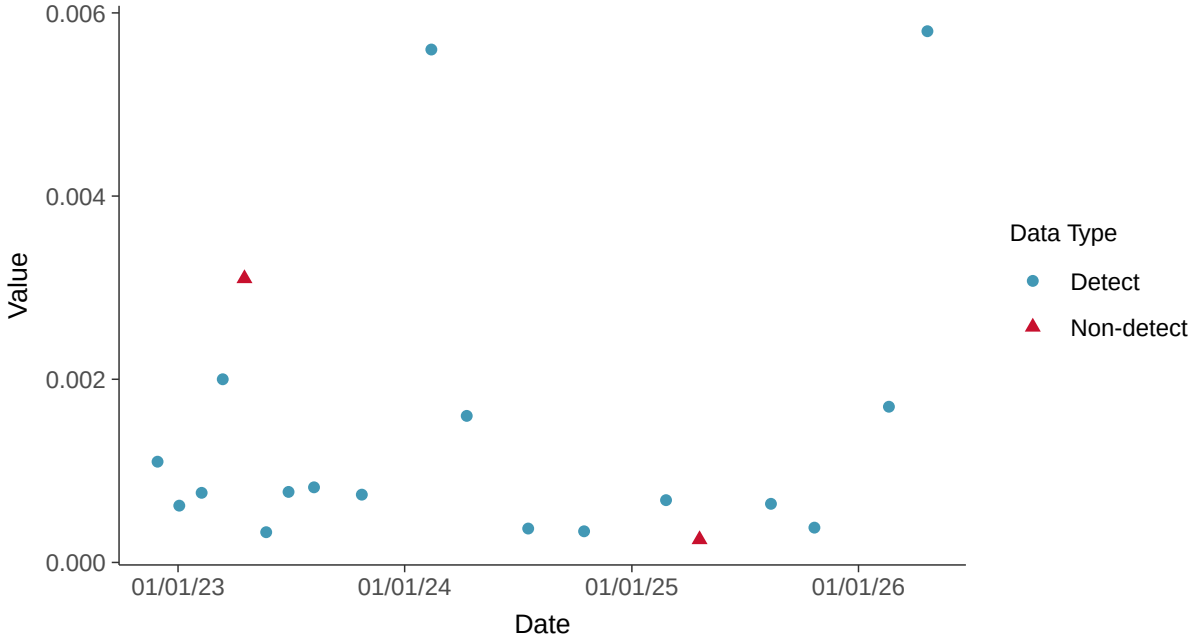


Appendix IV: Molybdenum, MW-01R

ID: 11_2_4_118

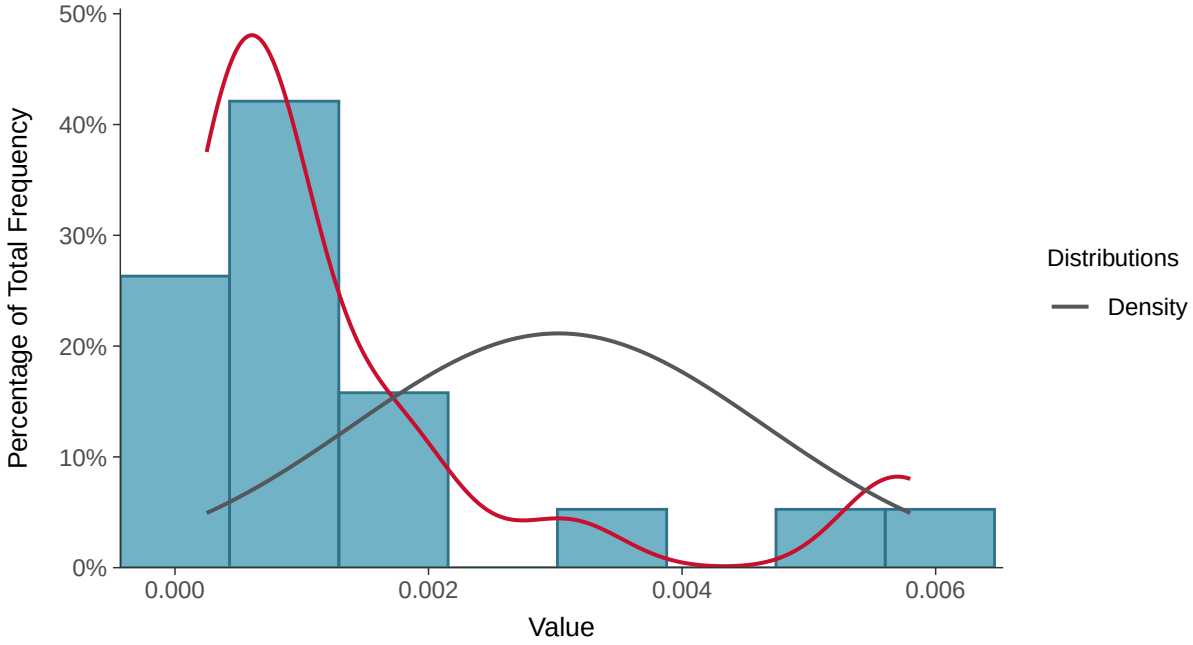
Scatter Plot

Molybdenum, MW-01R (mg/L)



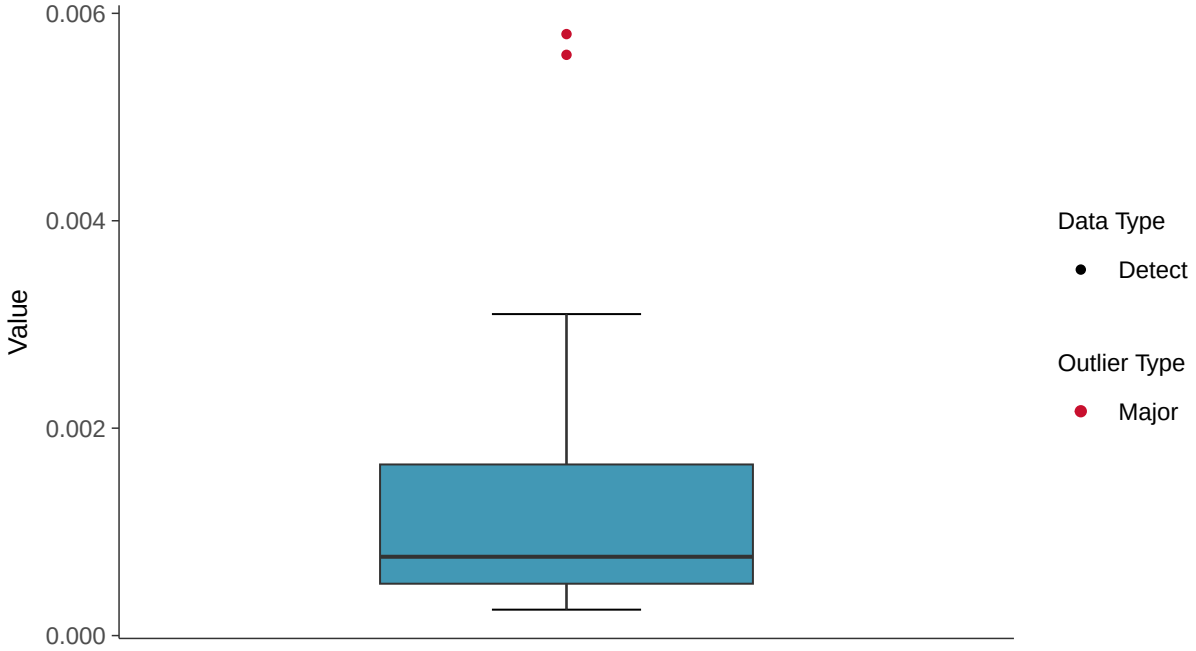
Histogram

Molybdenum, MW-01R (mg/L)



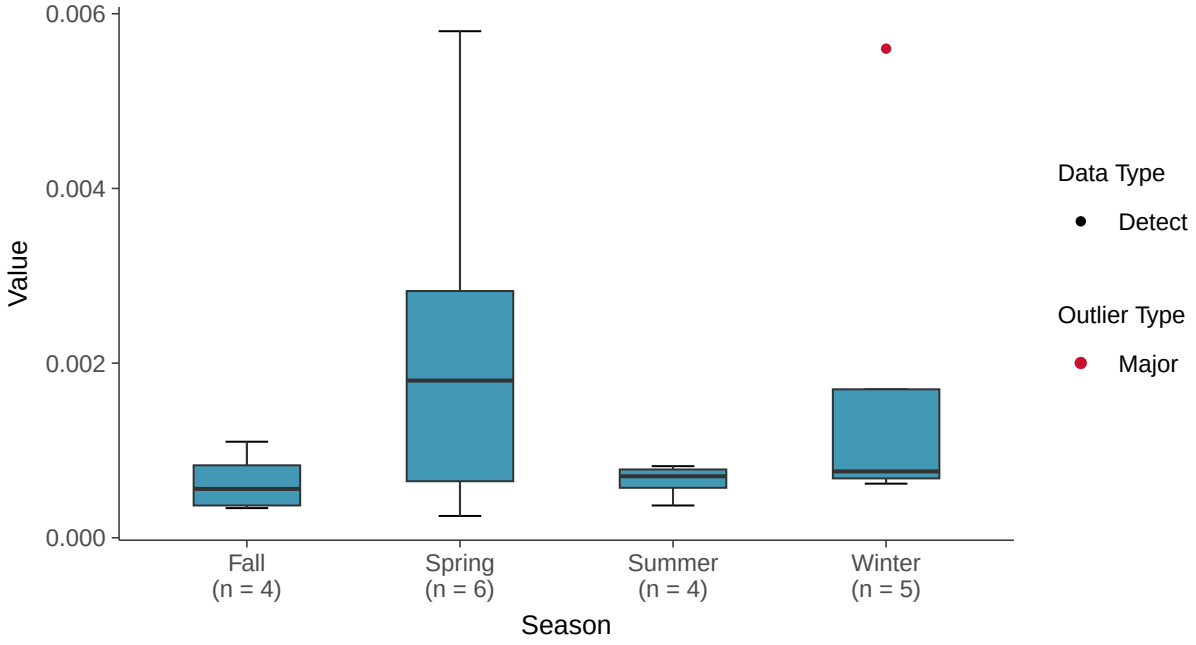
Boxplot

Molybdenum, MW-01R (mg/L)



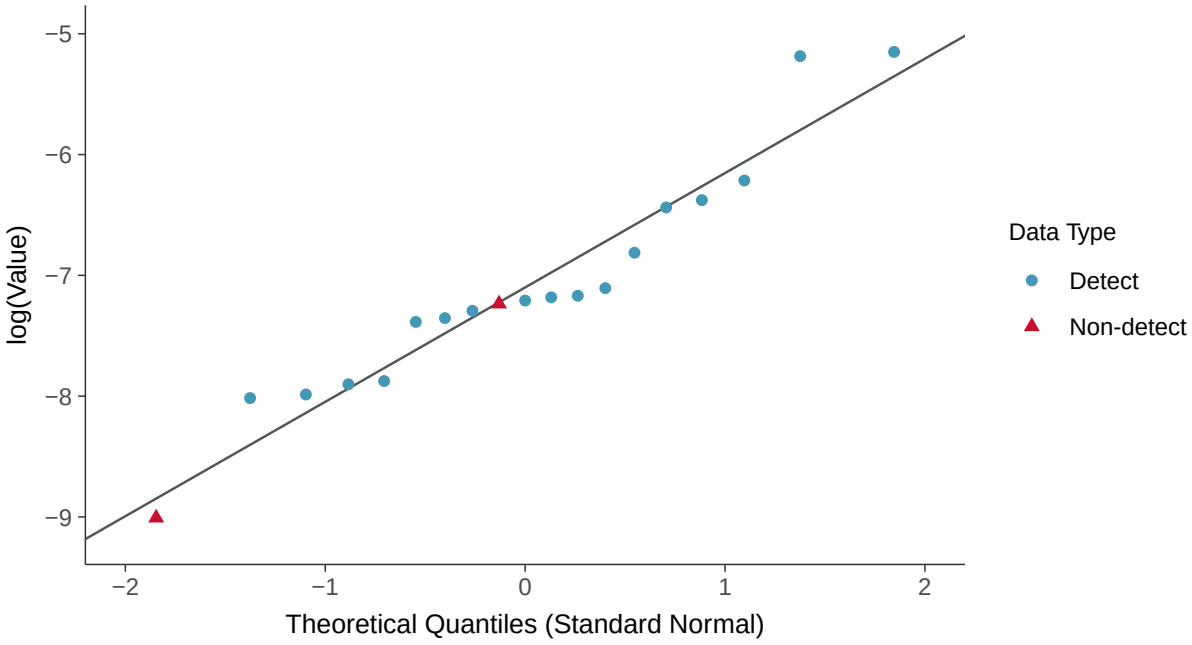
Boxplot by Season

Molybdenum, MW-01R (mg/L)



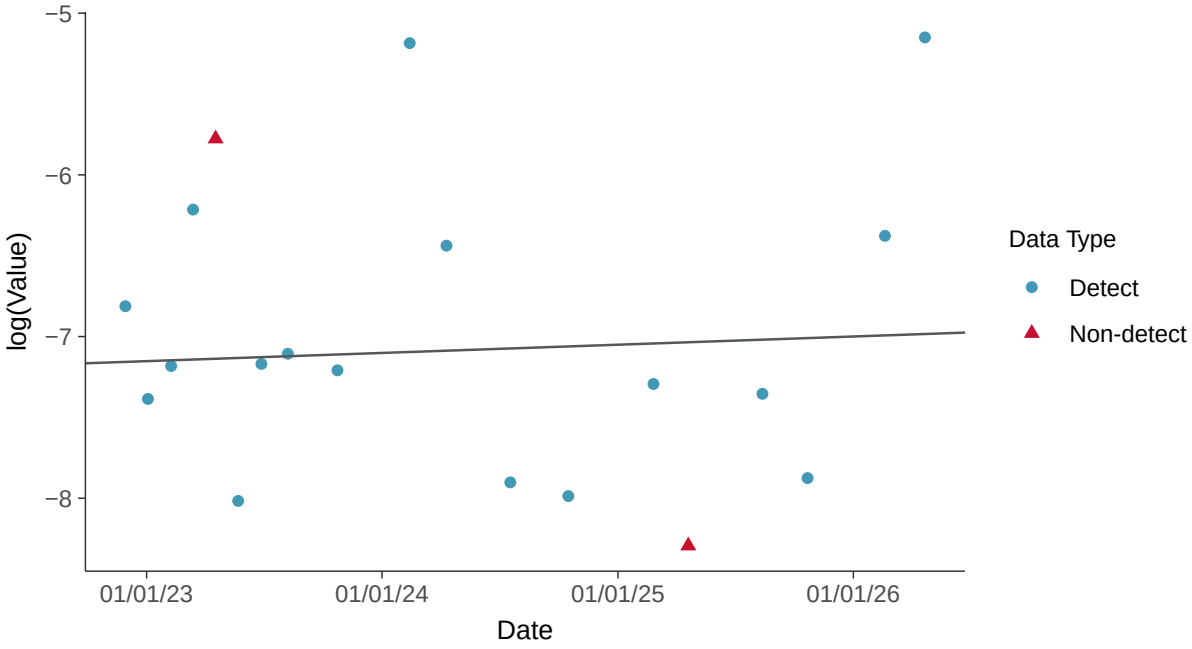
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-01R (mg/L)



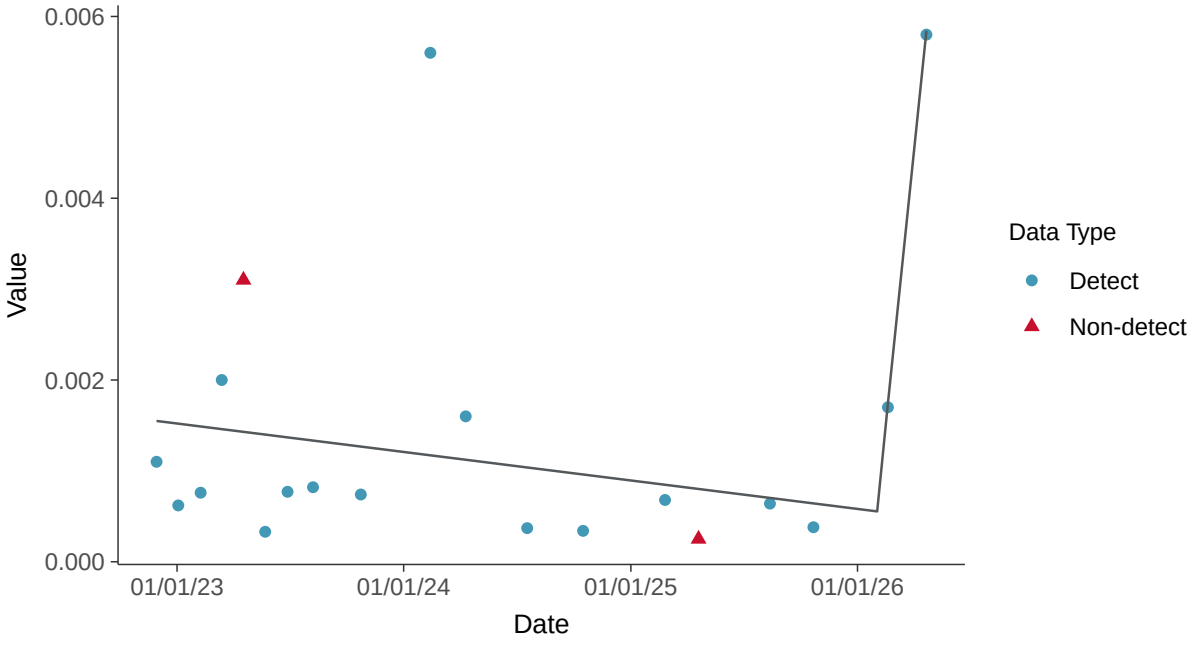
Trend Regression: Lognormal MLE

Molybdenum, MW-01R (mg/L)



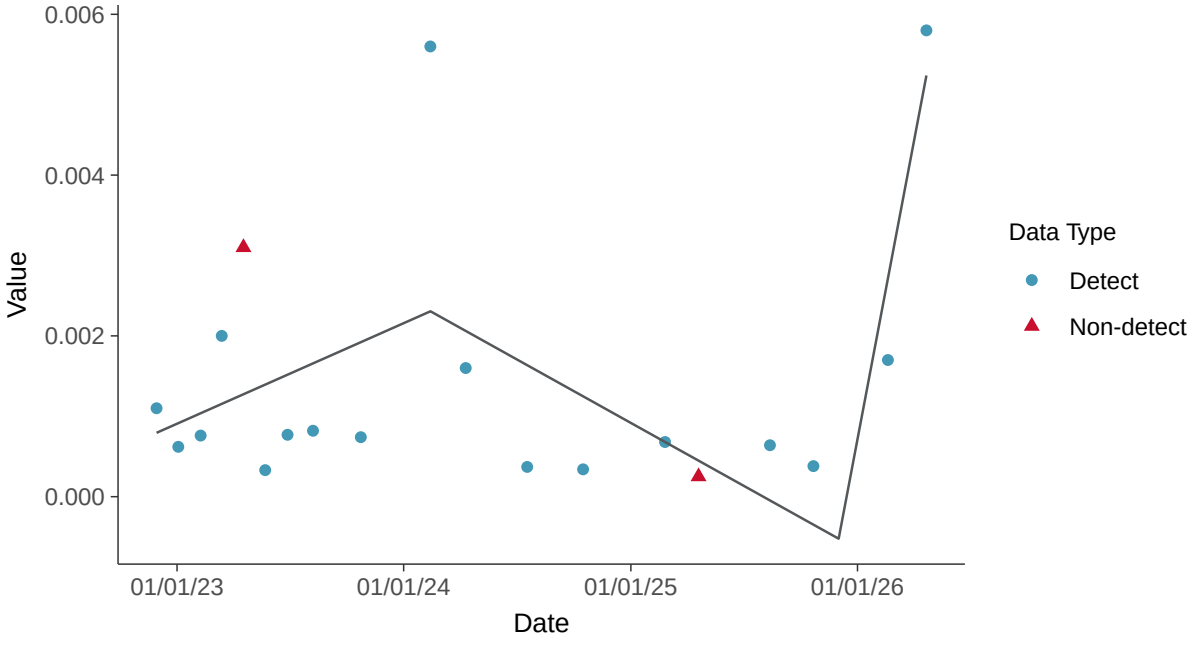
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-01R (mg/L)

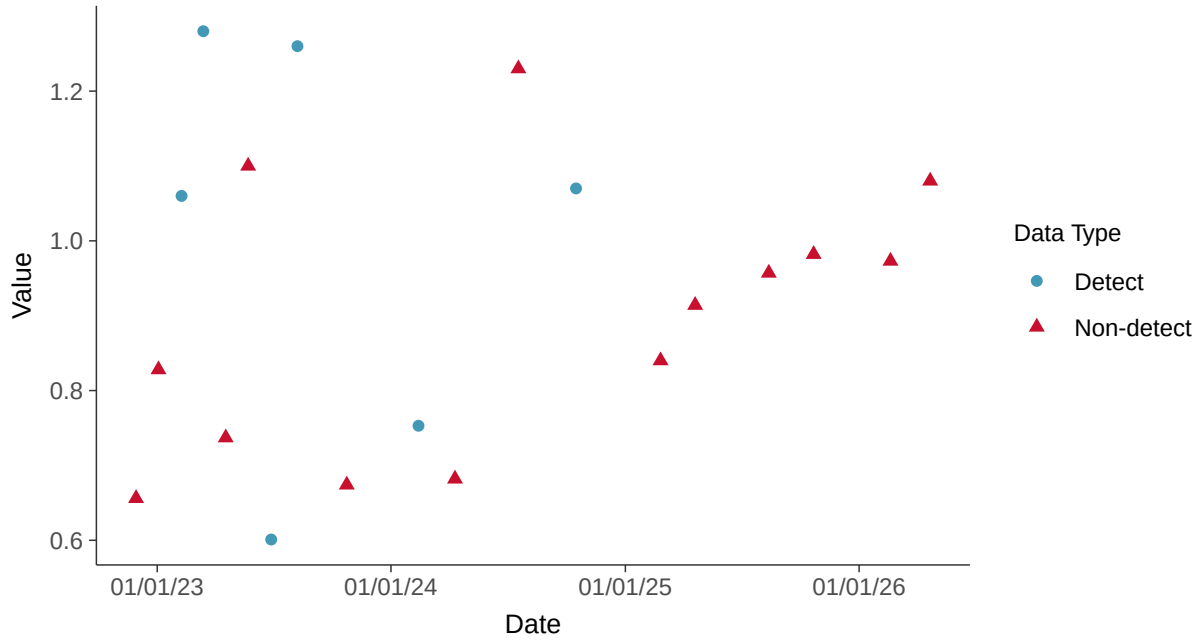


Appendix IV: Radium 226 and 228, MW-01R

ID: 11_2_4_121

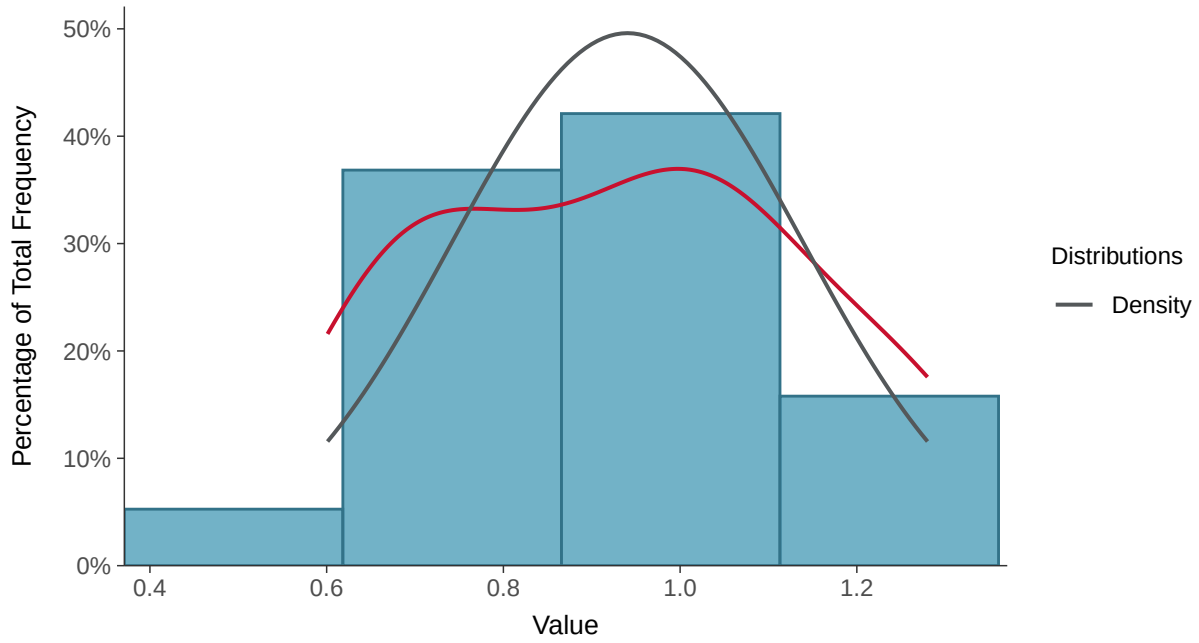
Scatter Plot

Radium 226 and 228, MW-01R (pCi/L)



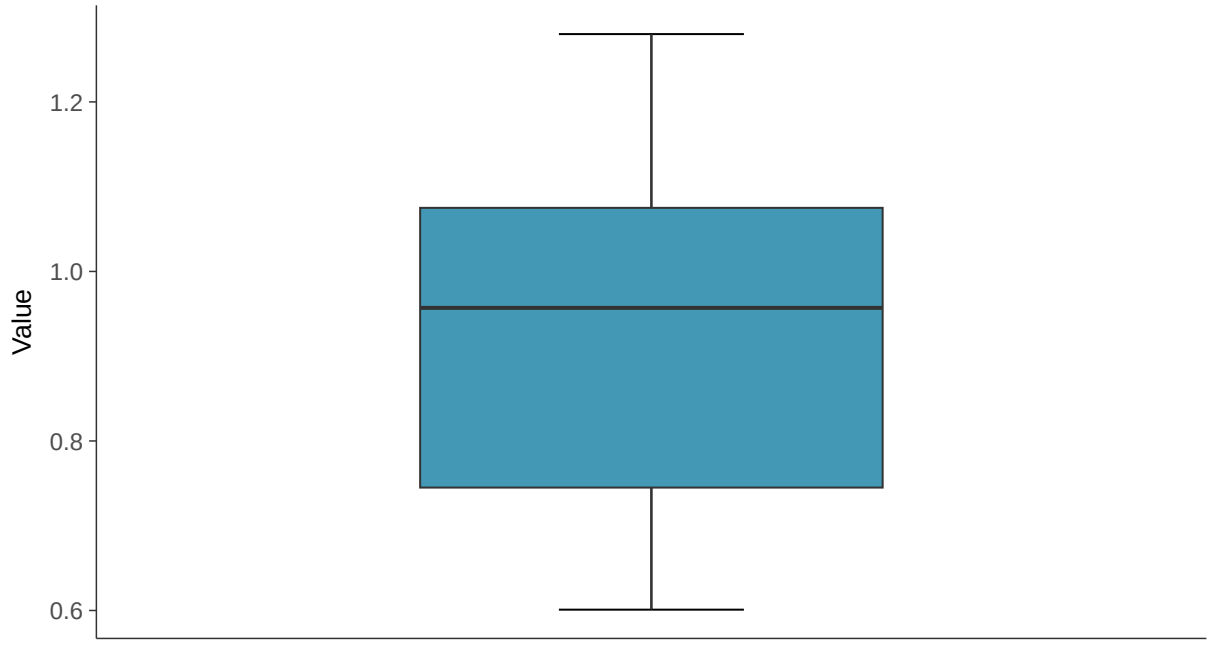
Histogram

Radium 226 and 228, MW-01R (pCi/L)



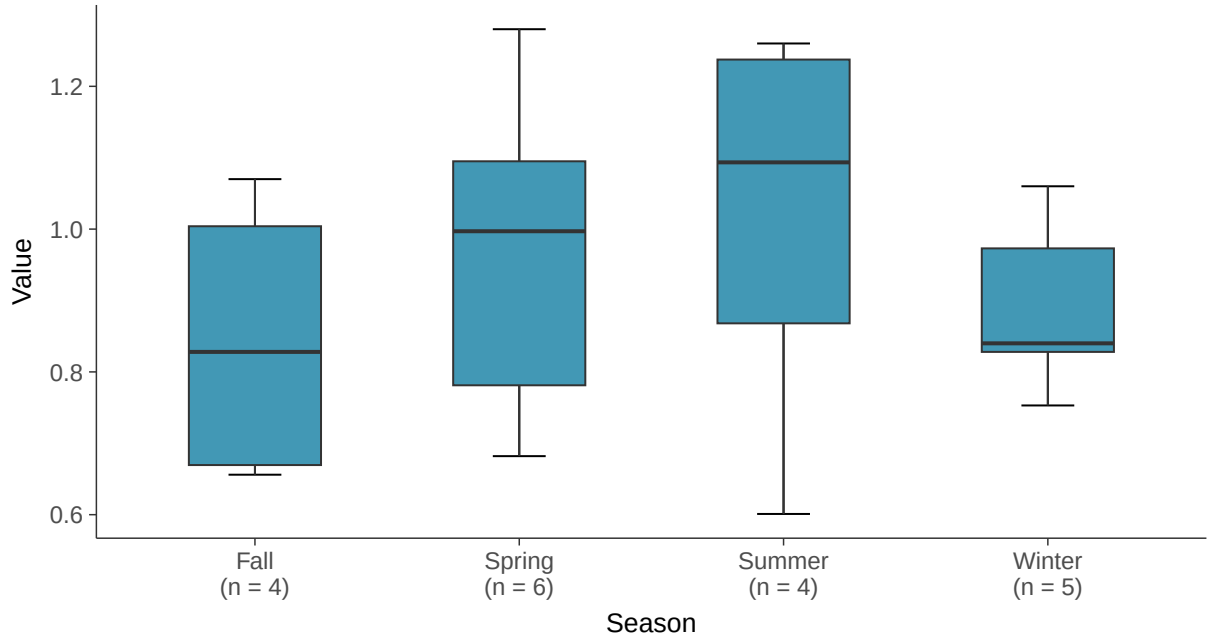
Boxplot

Radium 226 and 228, MW-01R (pCi/L)



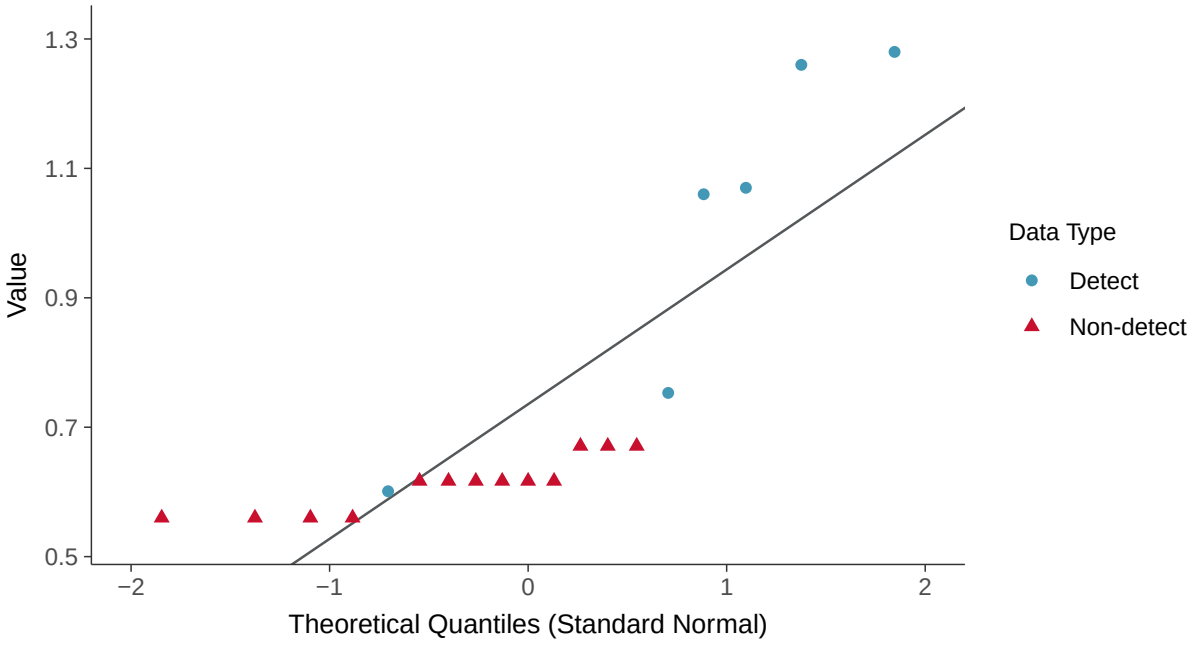
Boxplot by Season

Radium 226 and 228, MW-01R (pCi/L)



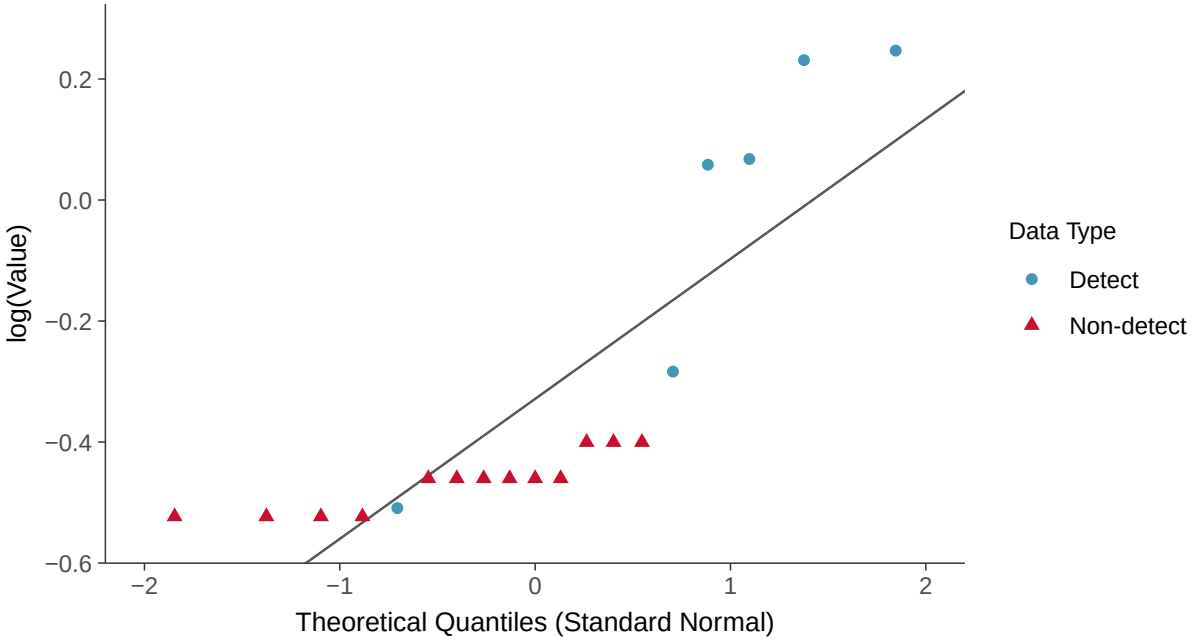
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



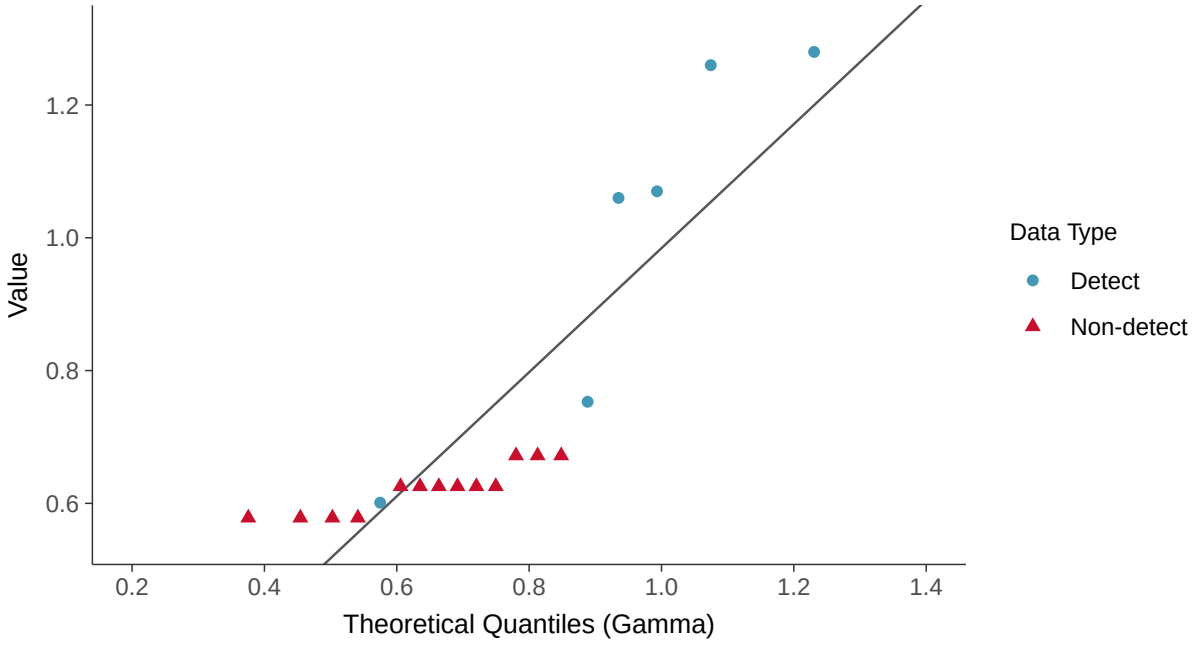
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



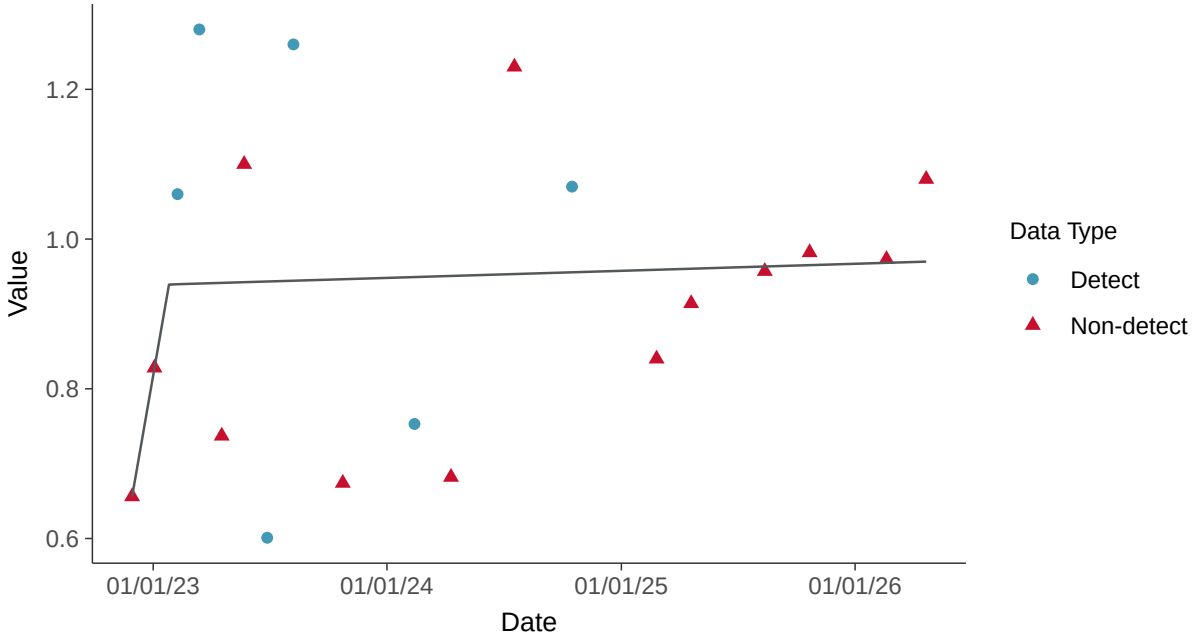
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-01R (pCi/L)



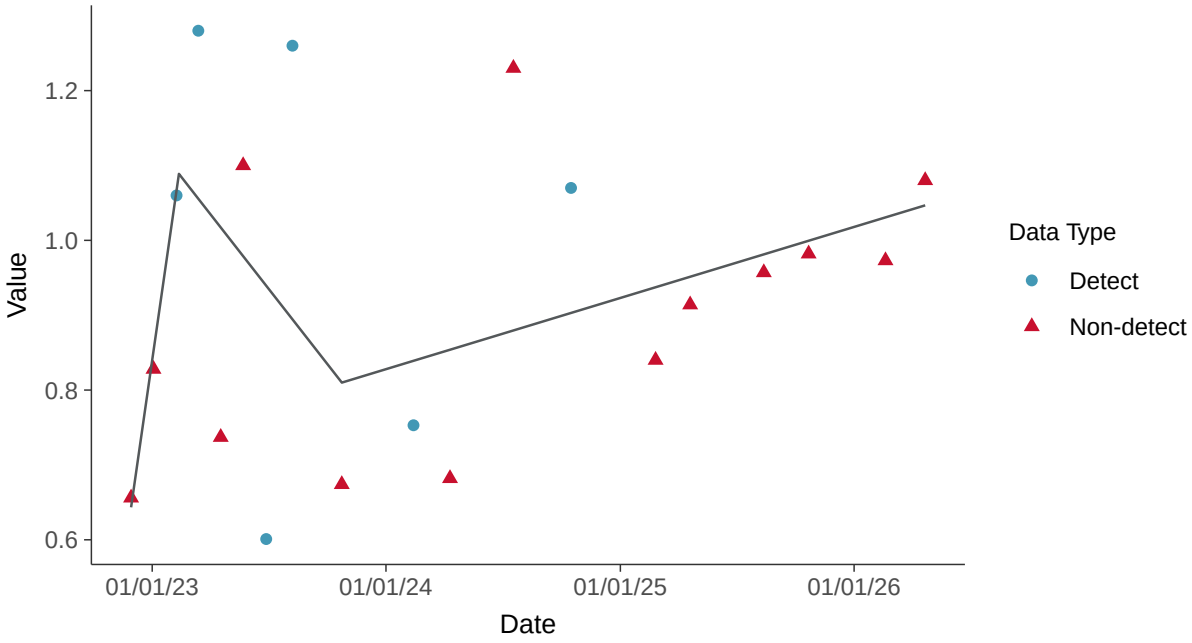
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-01R (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-01R (pCi/L)

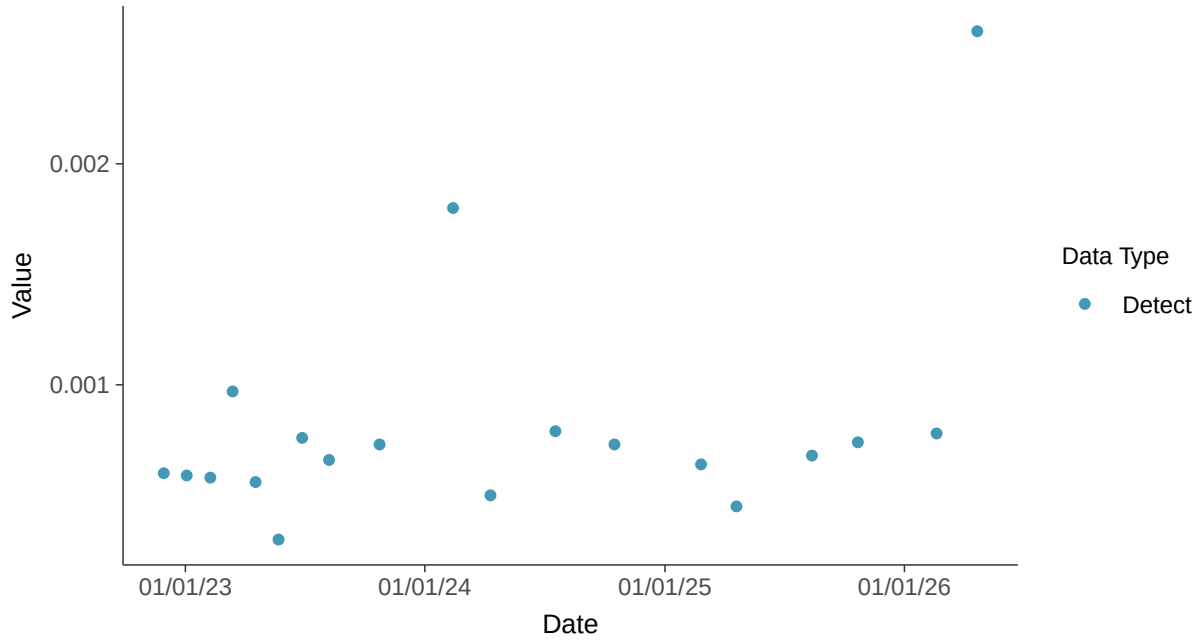


Appendix IV: Selenium, MW-01R

ID: 11_2_4_122

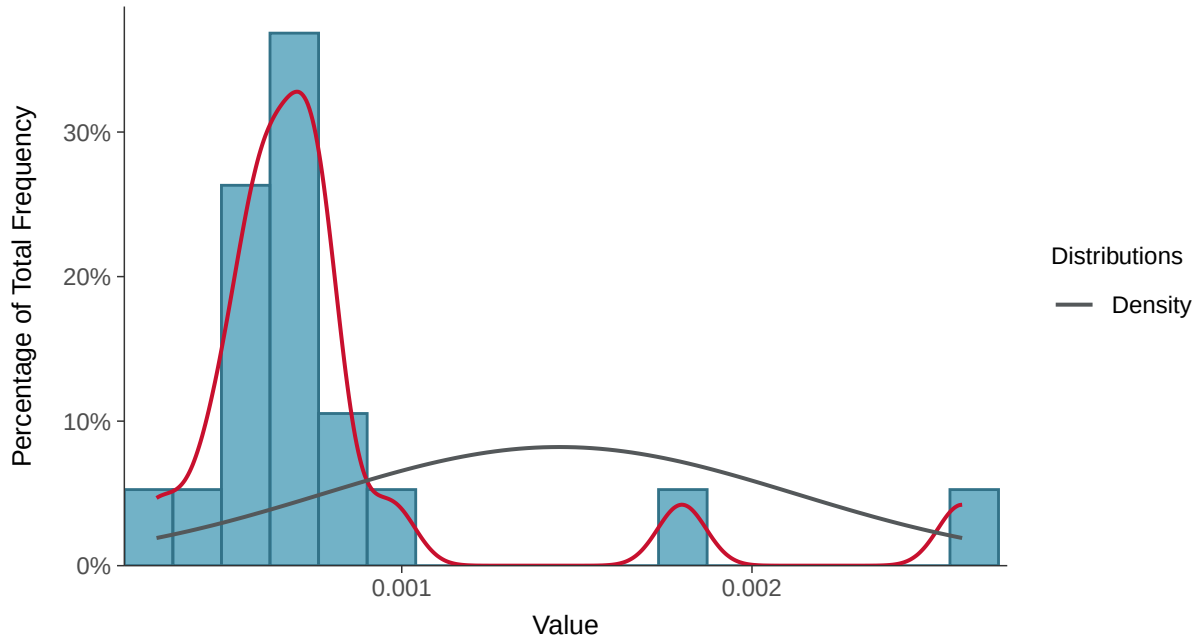
Scatter Plot

Selenium, MW-01R (mg/L)



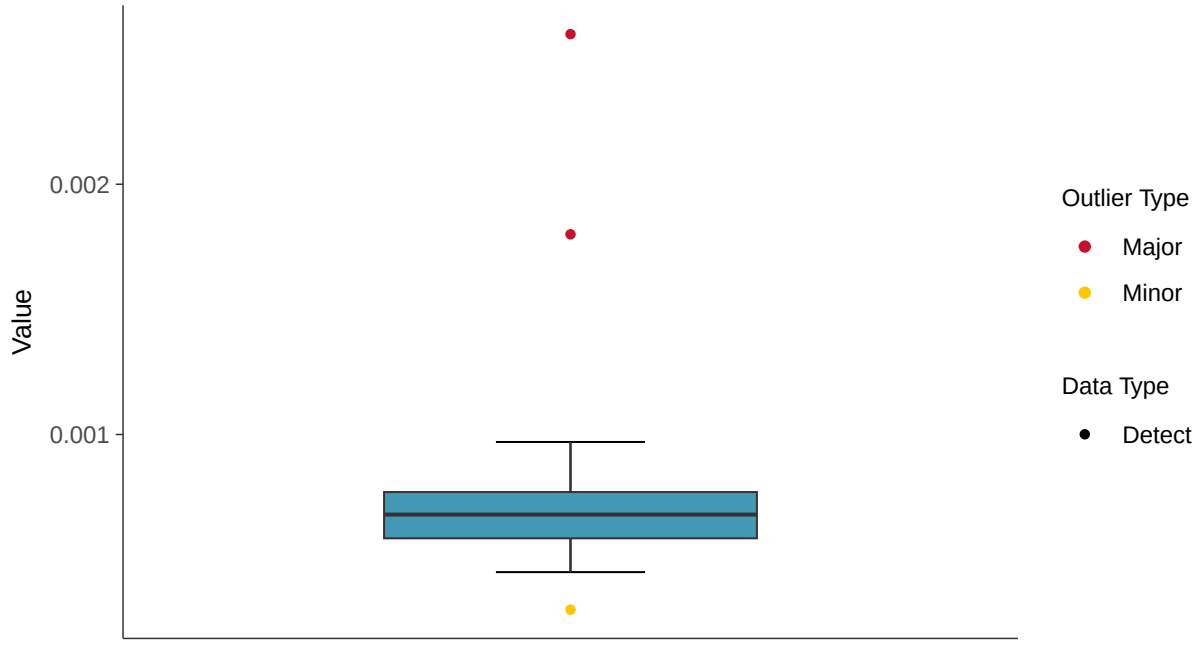
Histogram

Selenium, MW-01R (mg/L)



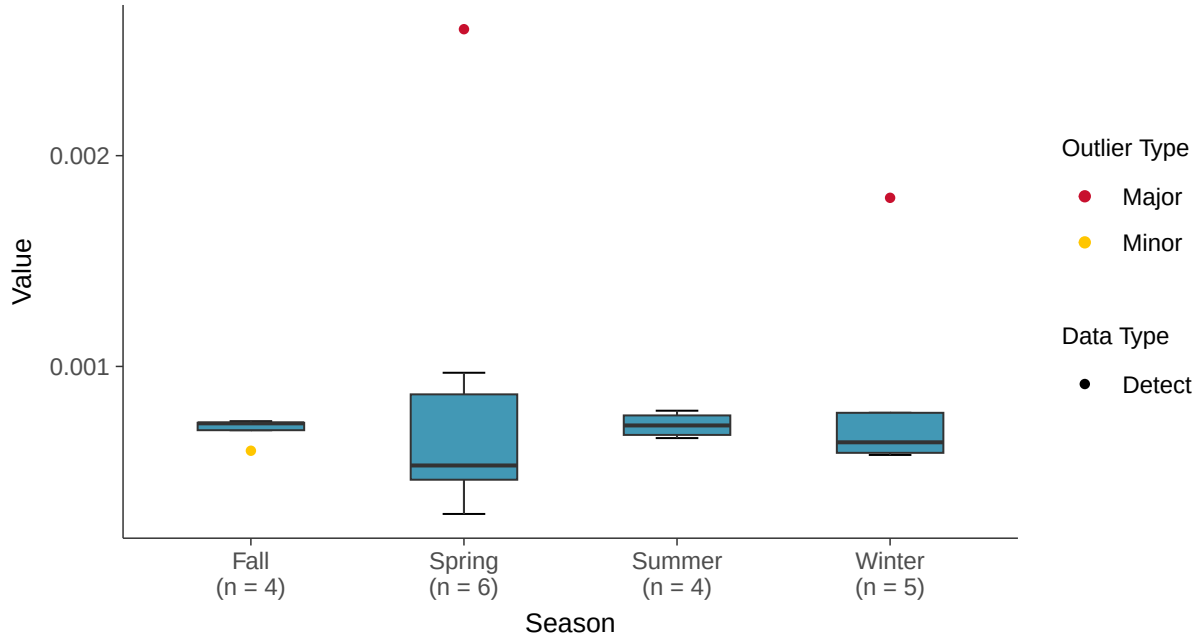
Boxplot

Selenium, MW-01R (mg/L)



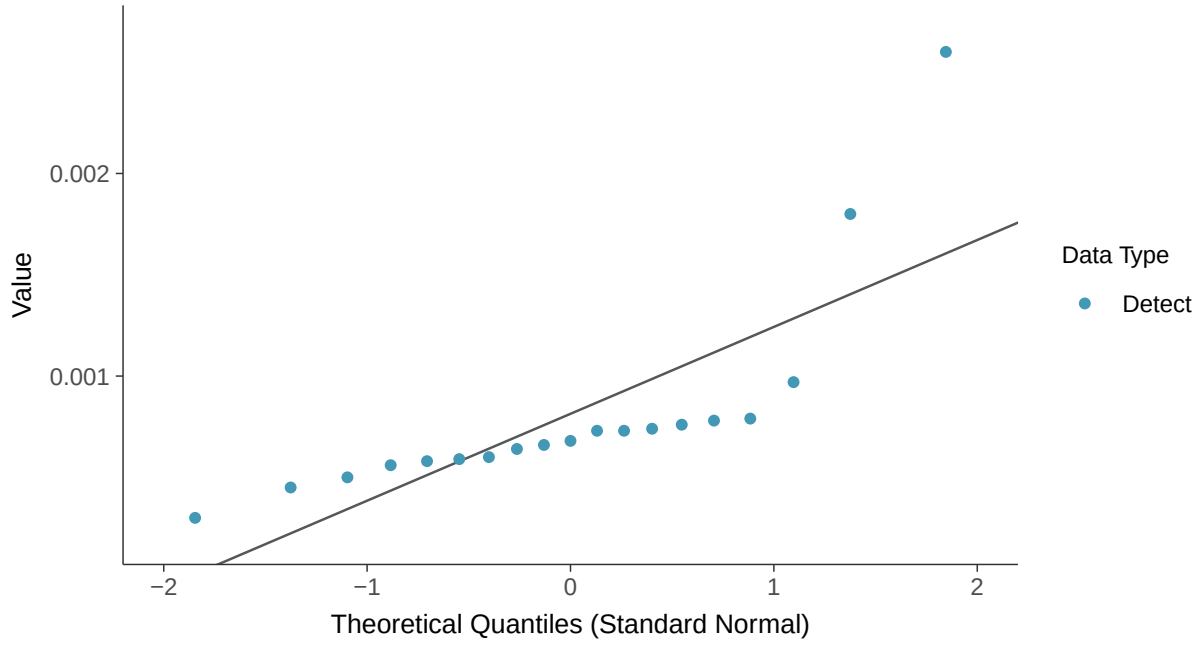
Boxplot by Season

Selenium, MW-01R (mg/L)



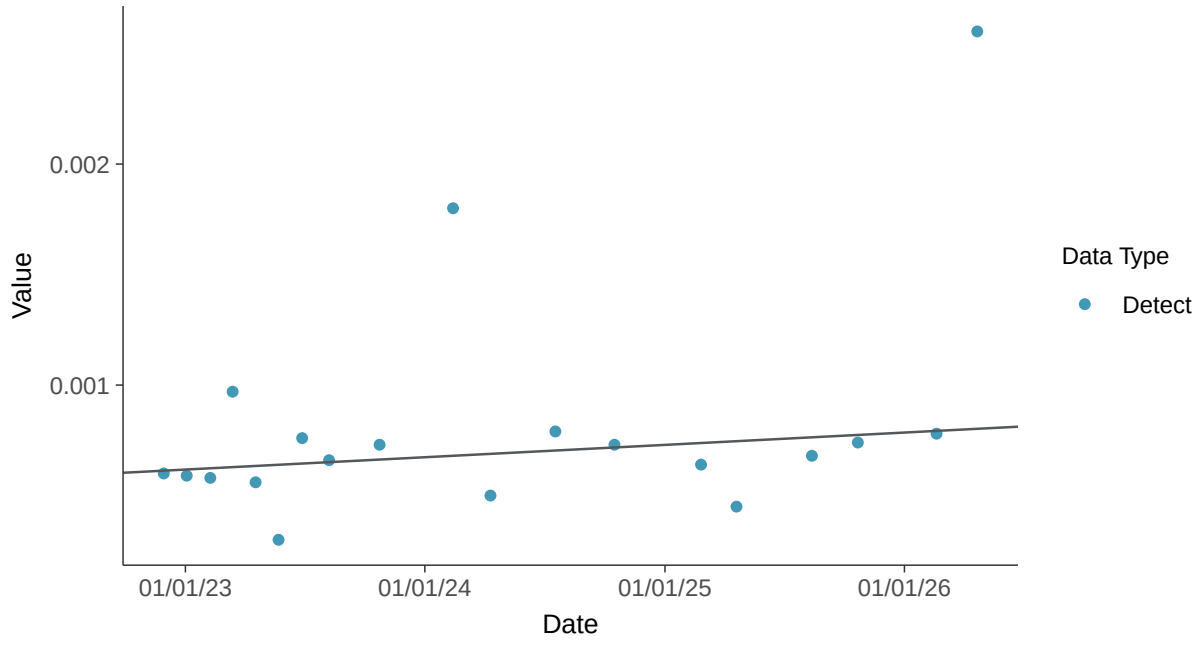
Normal Q-Q plot

Selenium, MW-01R (mg/L)



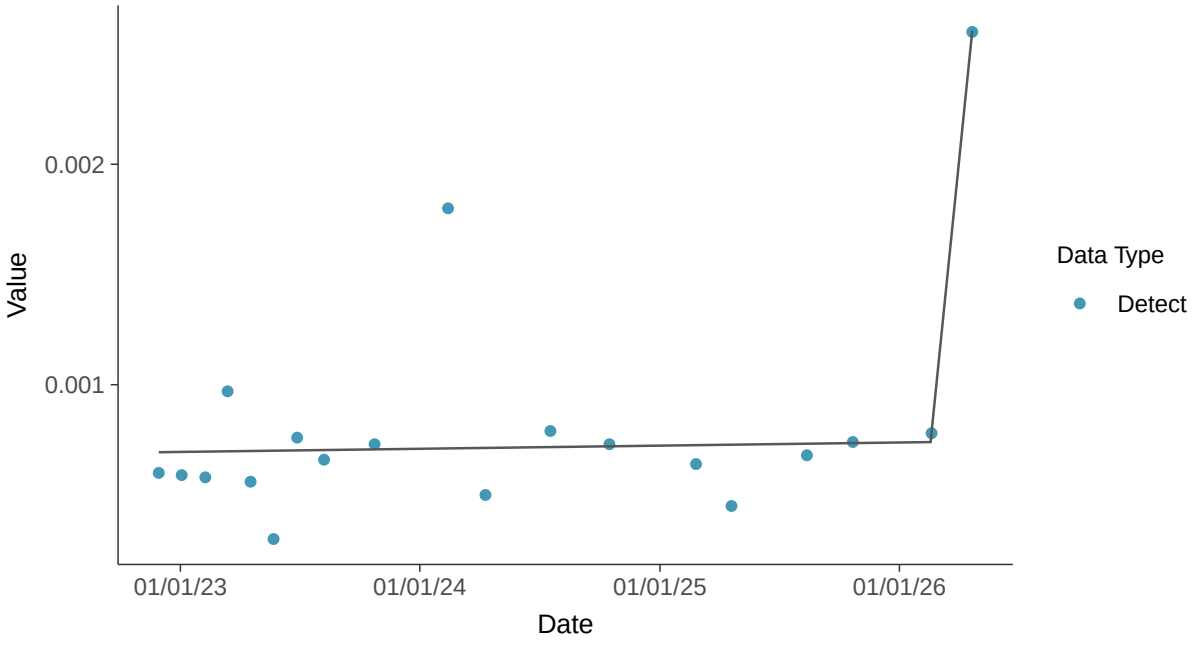
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-01R (mg/L)

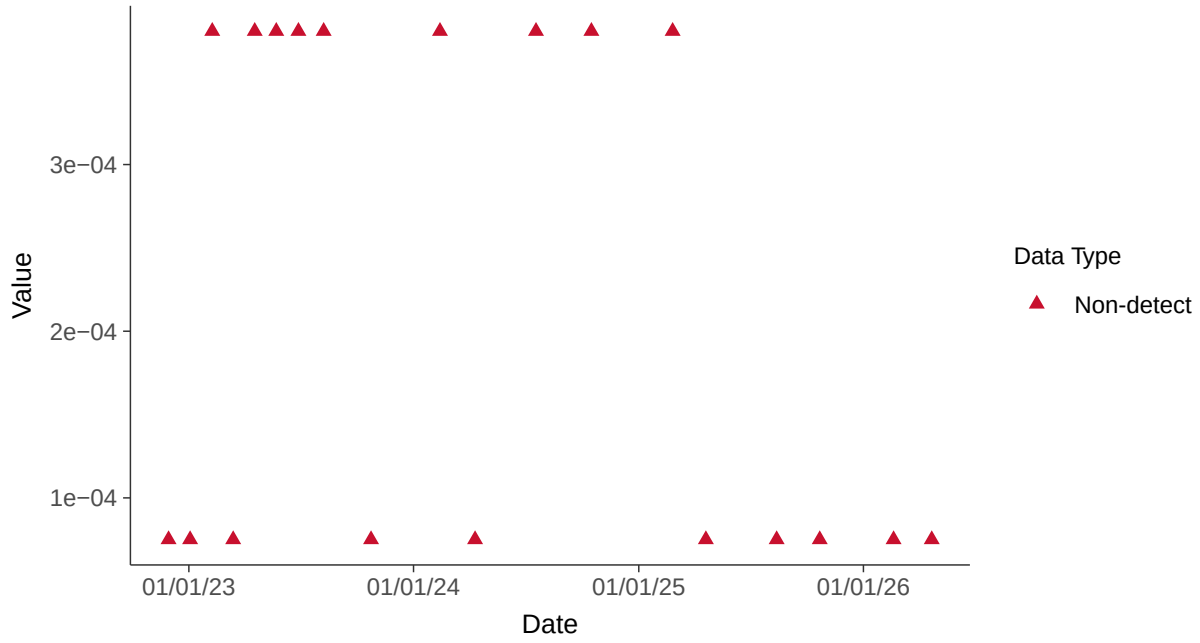


Appendix IV: Thallium, MW-01R

ID: 11_2_4_125

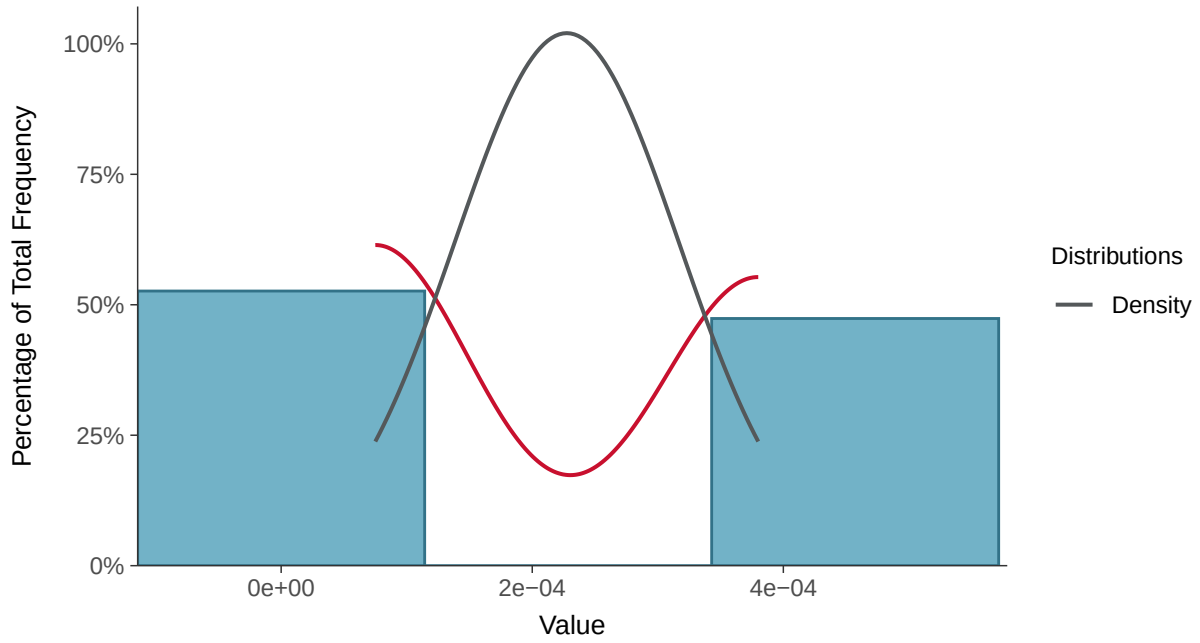
Scatter Plot

Thallium, MW-01R (mg/L)



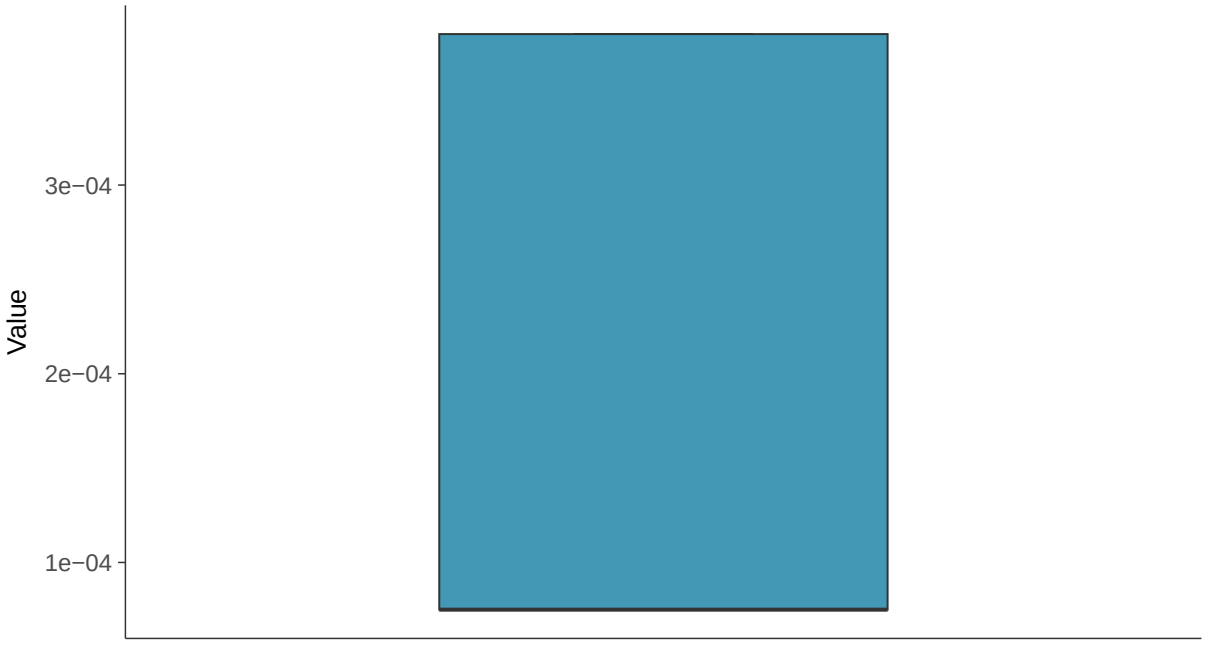
Histogram

Thallium, MW-01R (mg/L)



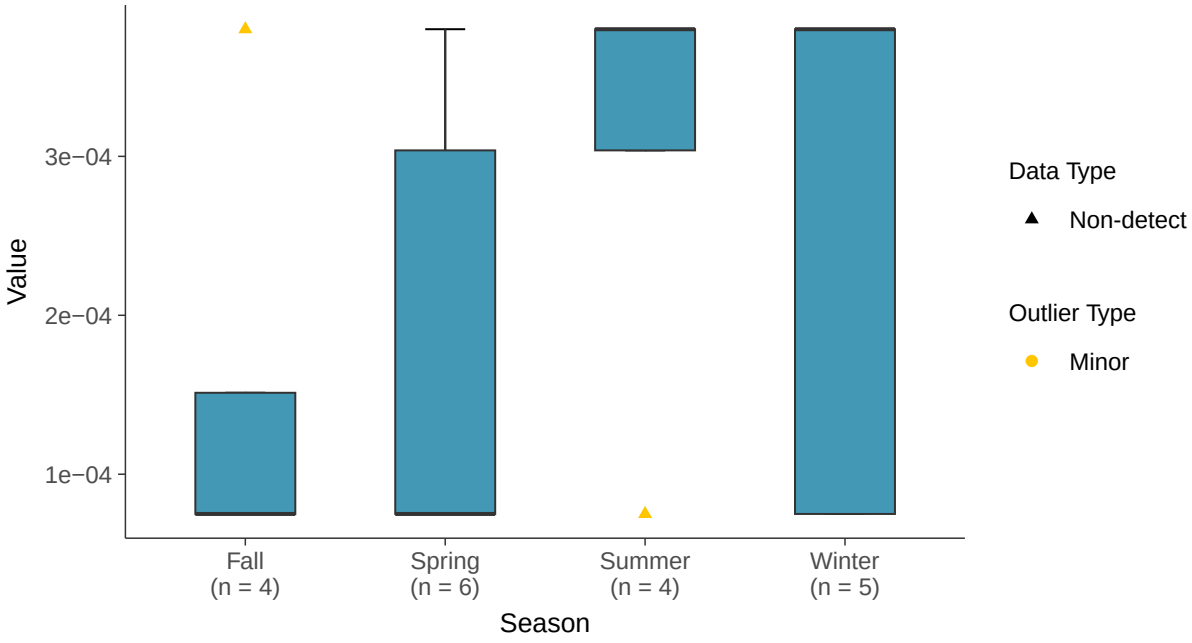
Boxplot

Thallium, MW-01R (mg/L)



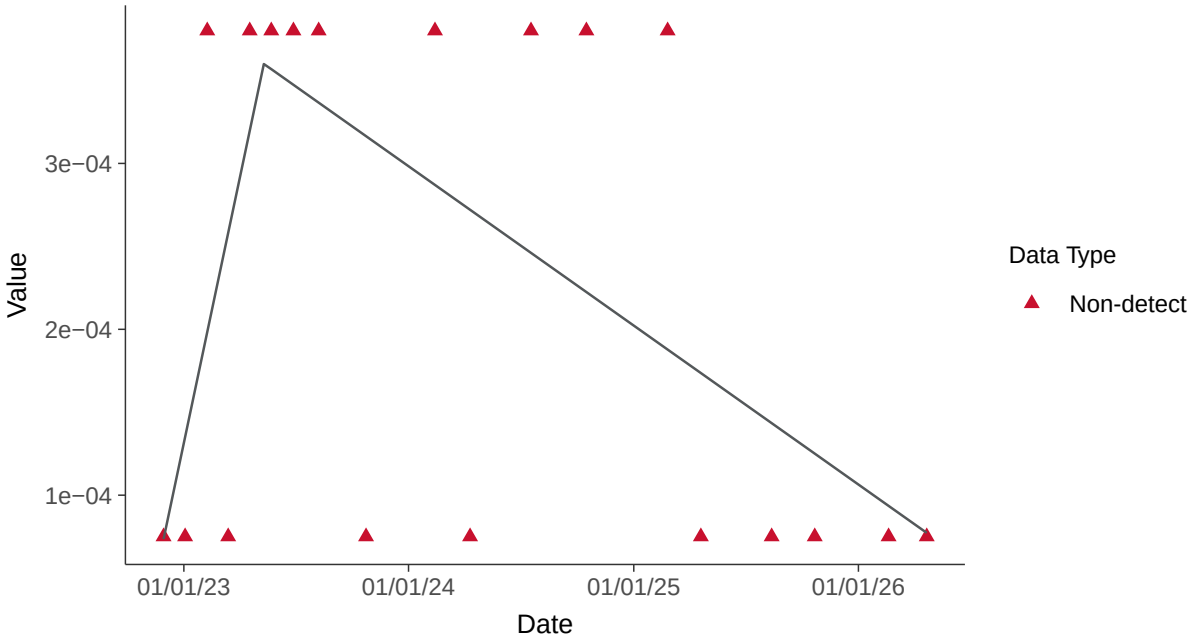
Boxplot by Season

Thallium, MW-01R (mg/L)



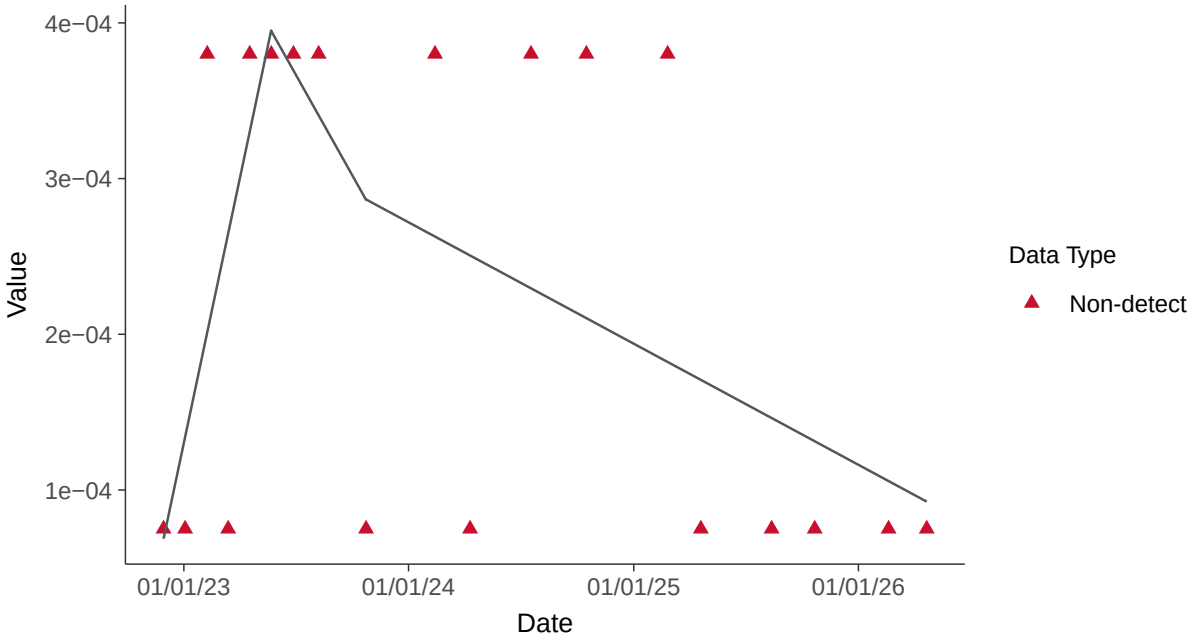
Trend Regression: Piecewise Linear-Linear

Thallium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-01R (mg/L)

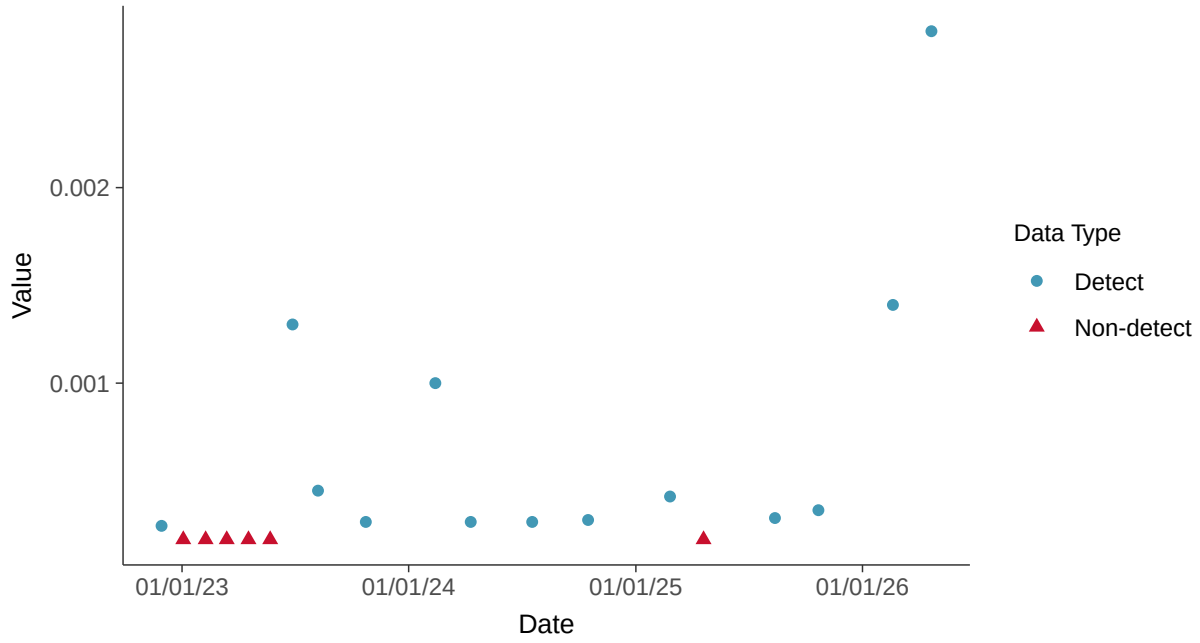


Part 115: Copper, MW-01R

ID: 11_2_5_111

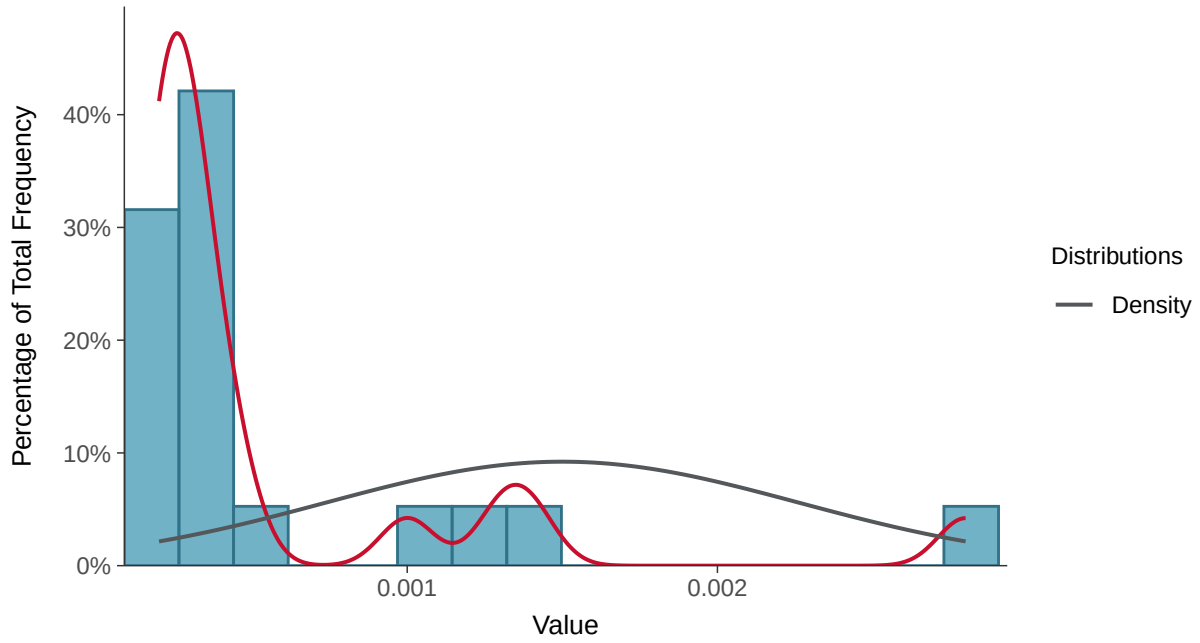
Scatter Plot

Copper, MW-01R (mg/L)



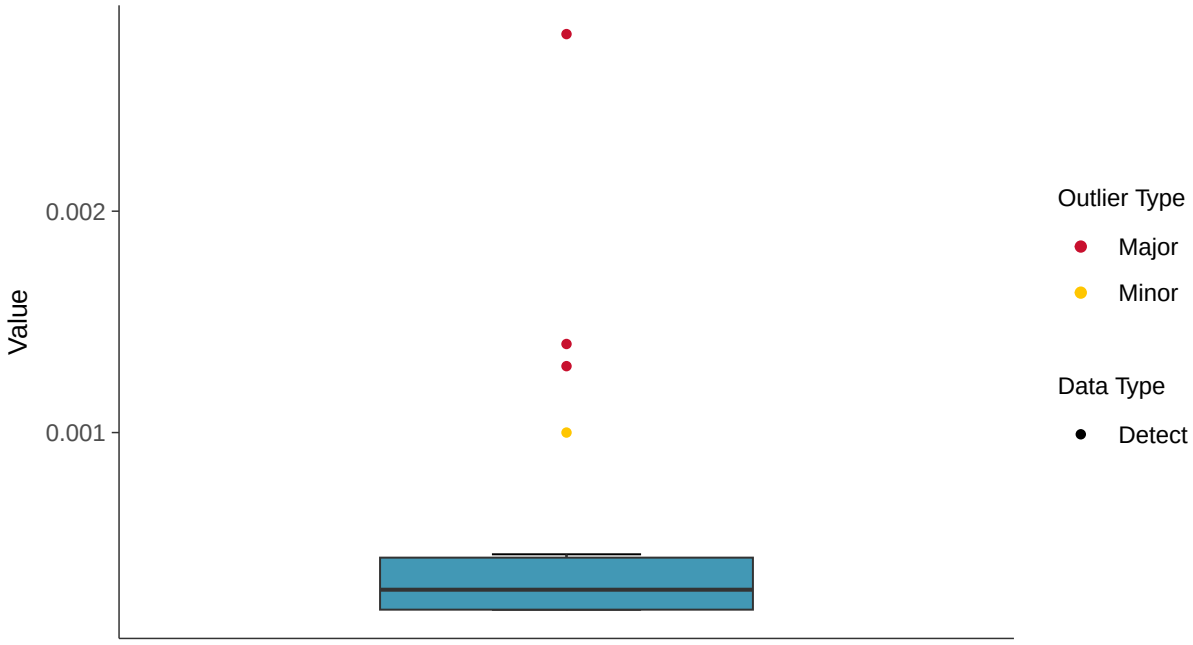
Histogram

Copper, MW-01R (mg/L)



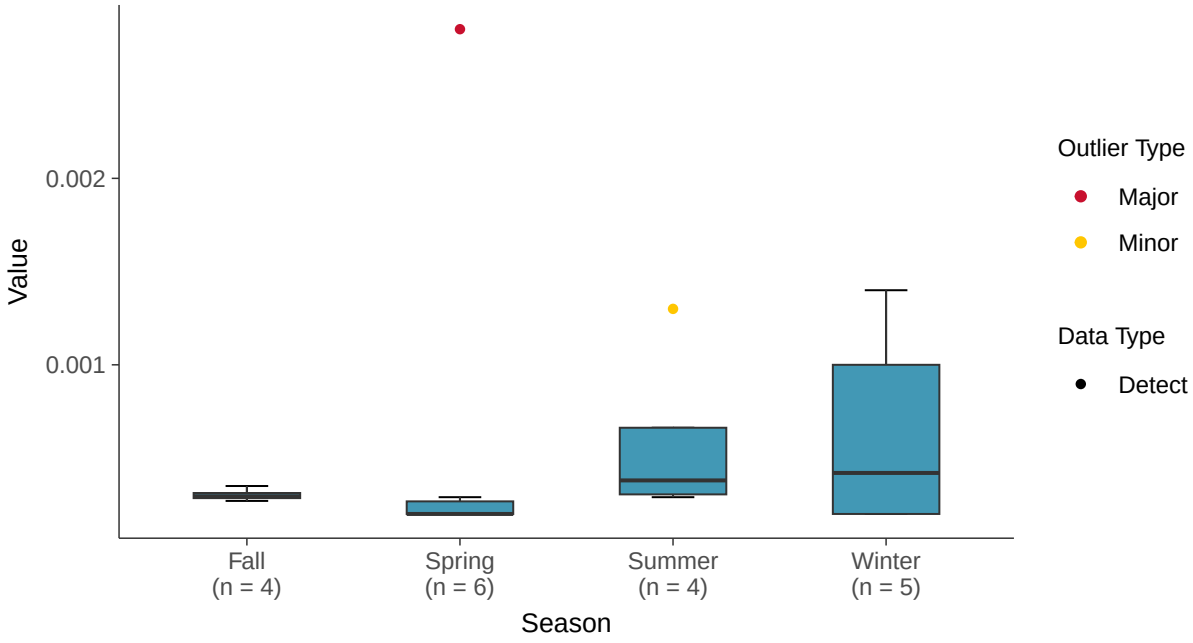
Boxplot

Copper, MW-01R (mg/L)



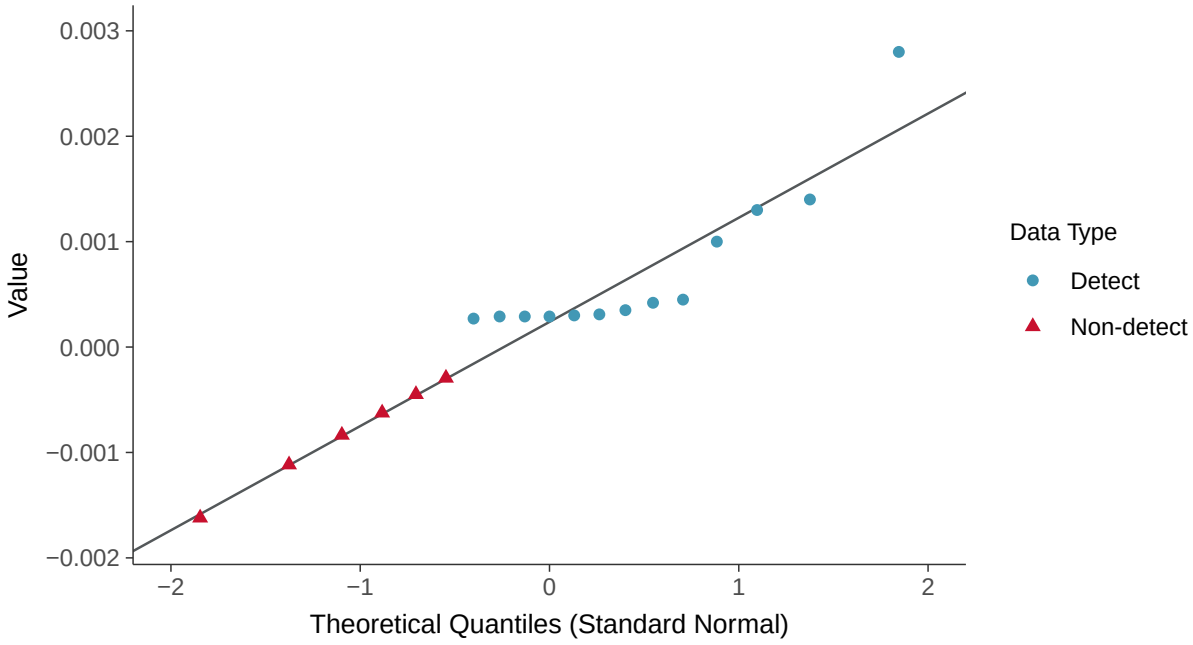
Boxplot by Season

Copper, MW-01R (mg/L)



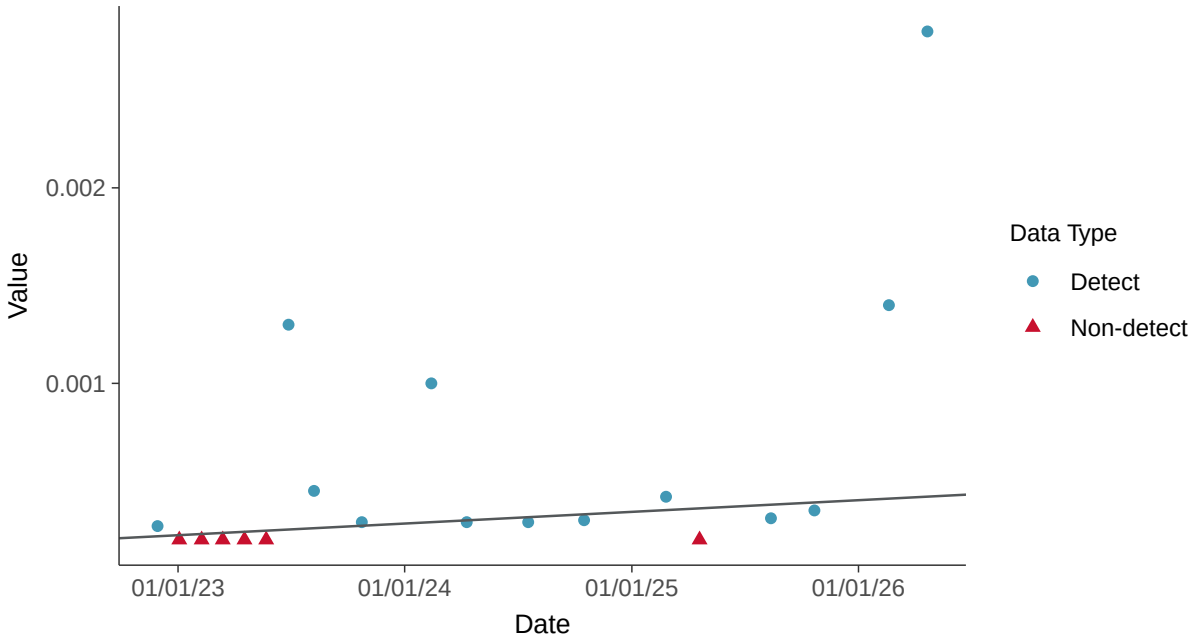
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-01R (mg/L)



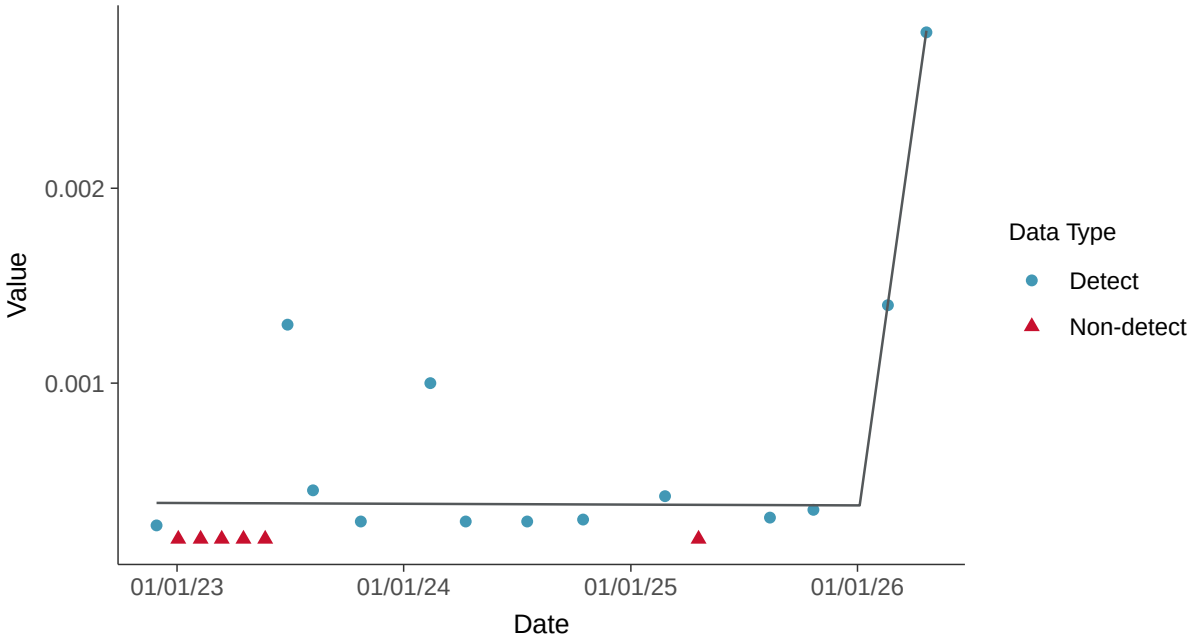
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Copper, MW-01R (mg/L)



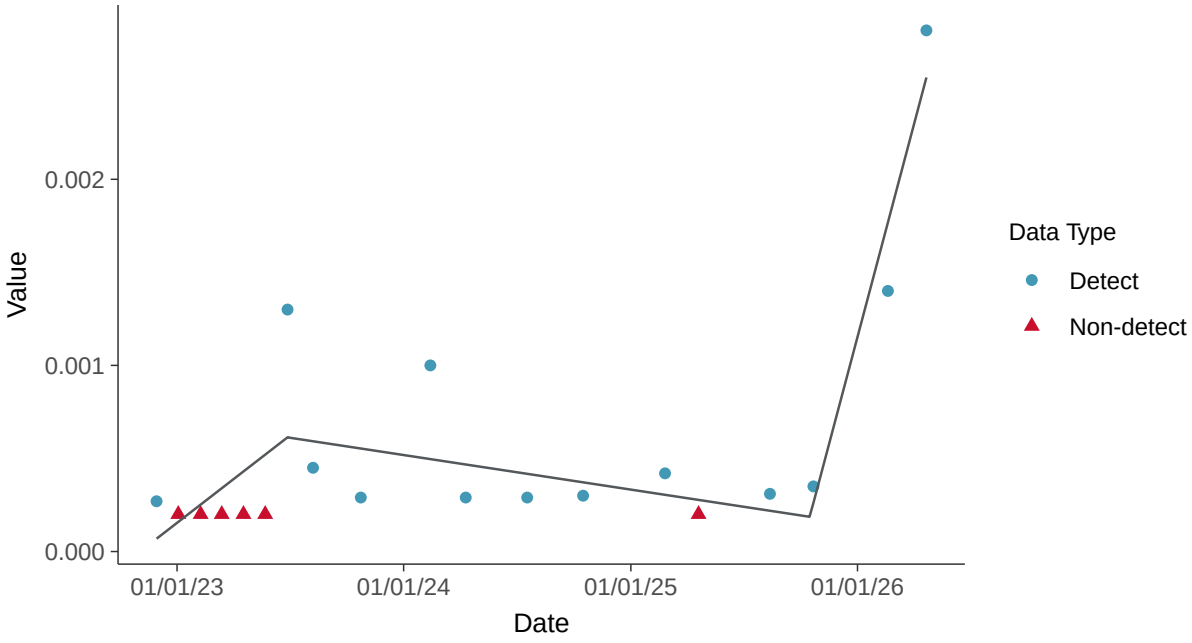
Trend Regression: Piecewise Linear-Linear

Copper, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-01R (mg/L)

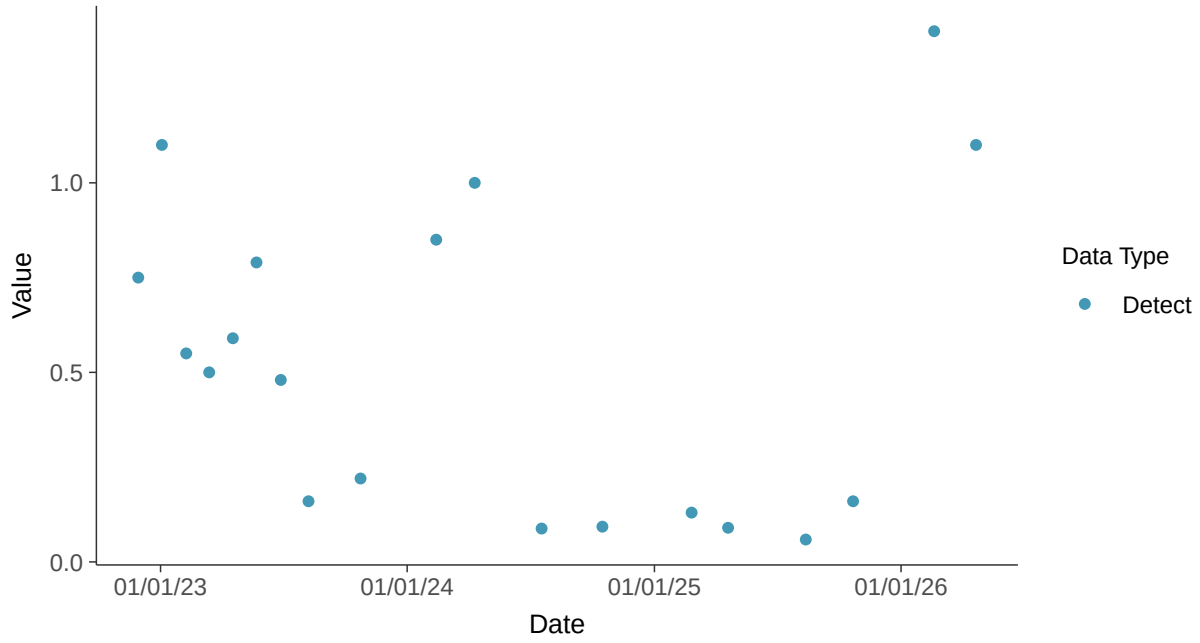


Part 115: Iron, MW-01R

ID: 11_2_5_114

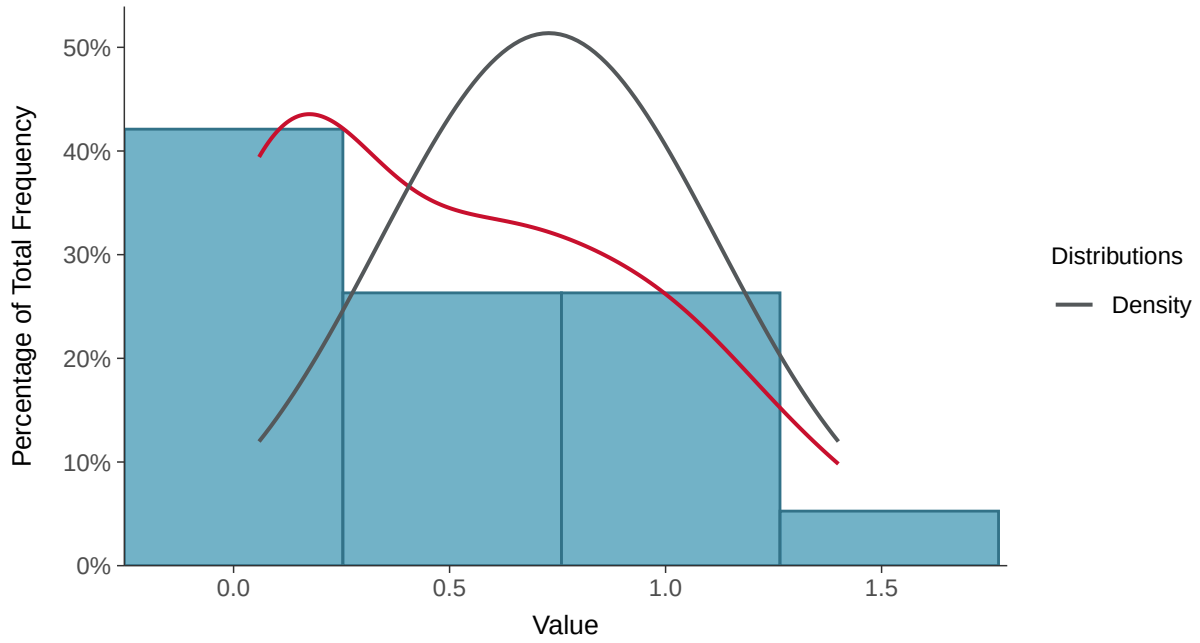
Scatter Plot

Iron, MW-01R (mg/L)



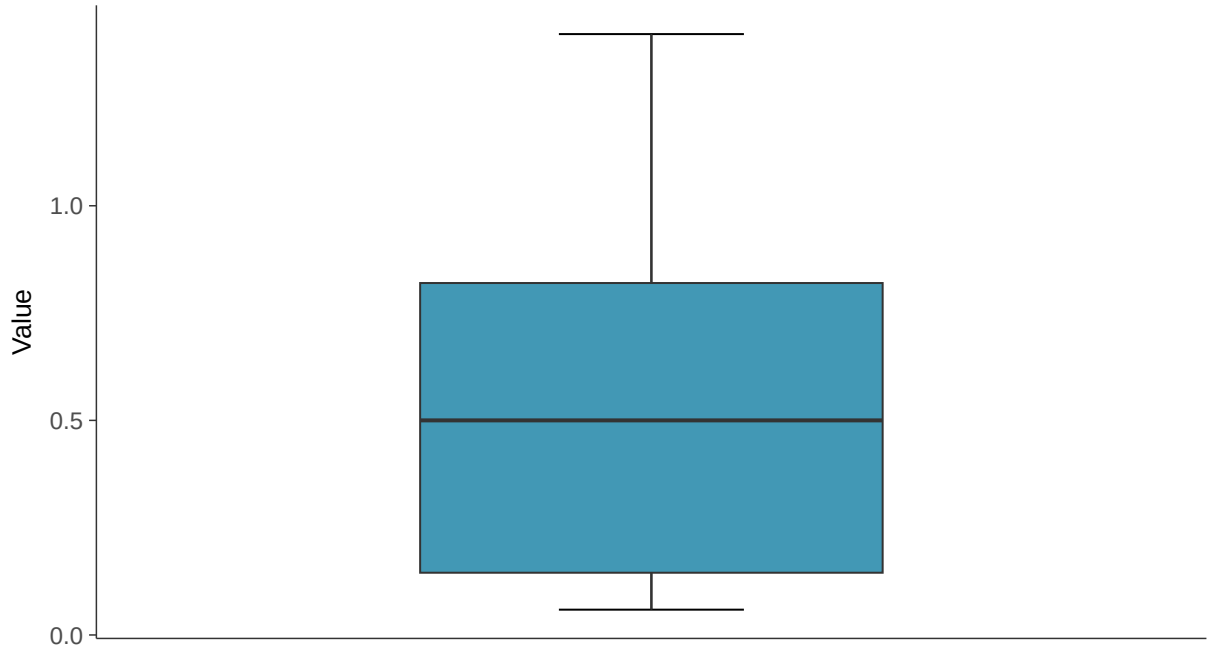
Histogram

Iron, MW-01R (mg/L)



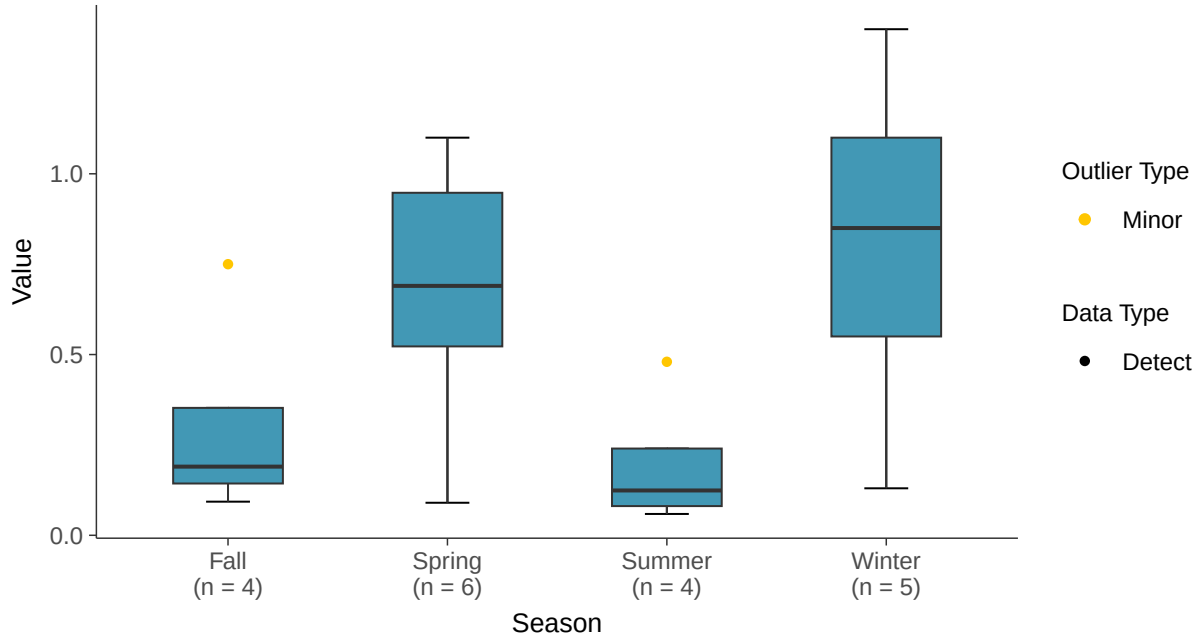
Boxplot

Iron, MW-01R (mg/L)



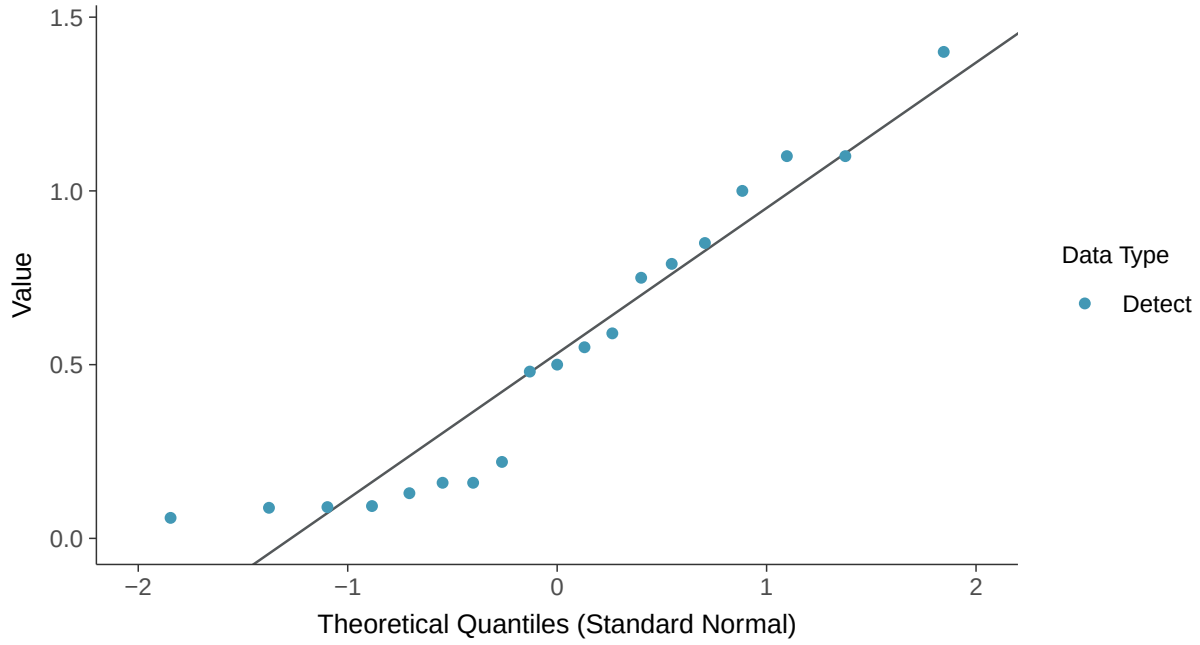
Boxplot by Season

Iron, MW-01R (mg/L)



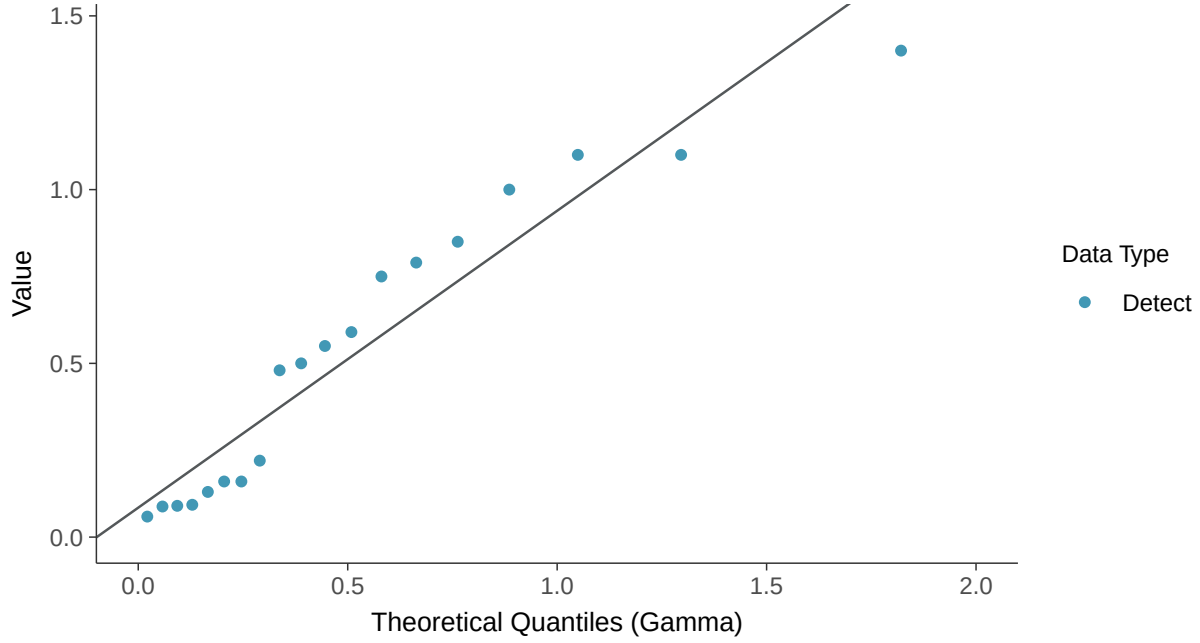
Normal Q-Q plot

Iron, MW-01R (mg/L)



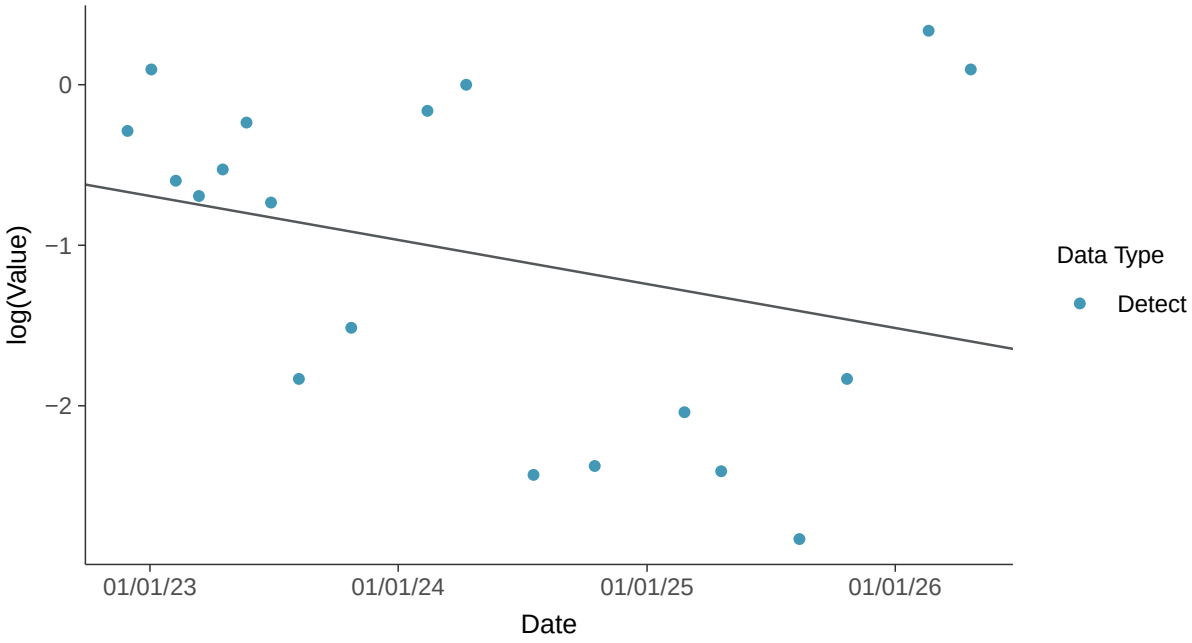
Gamma Q-Q plot

Iron, MW-01R (mg/L)



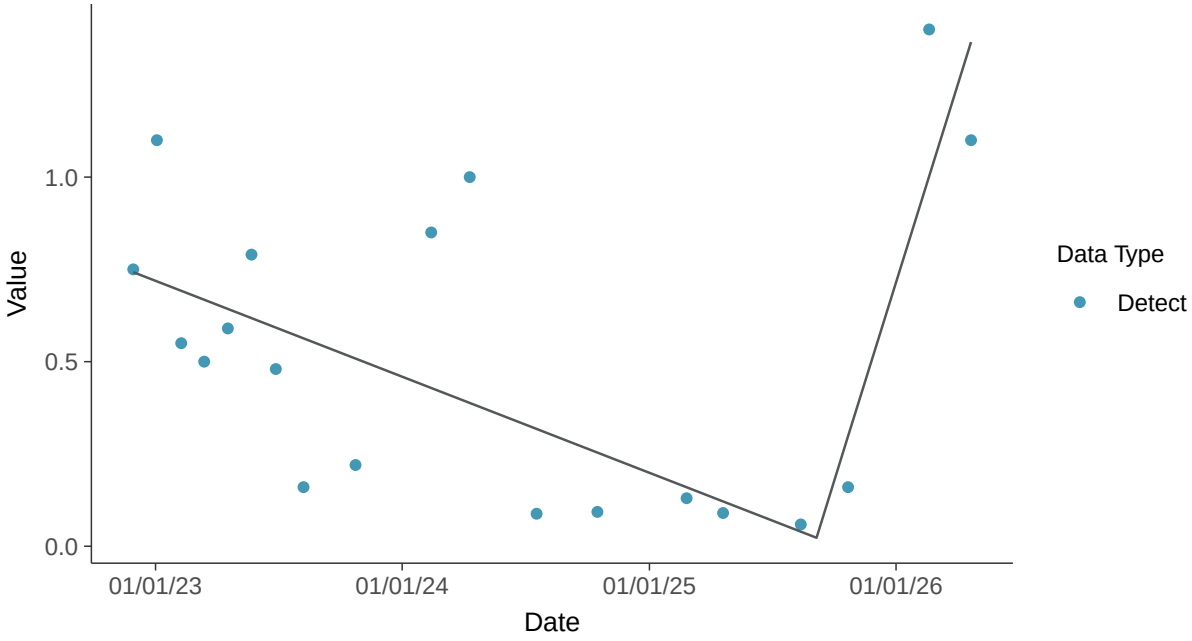
Trend Regression: Lognormal MLE

Iron, MW-01R (mg/L)



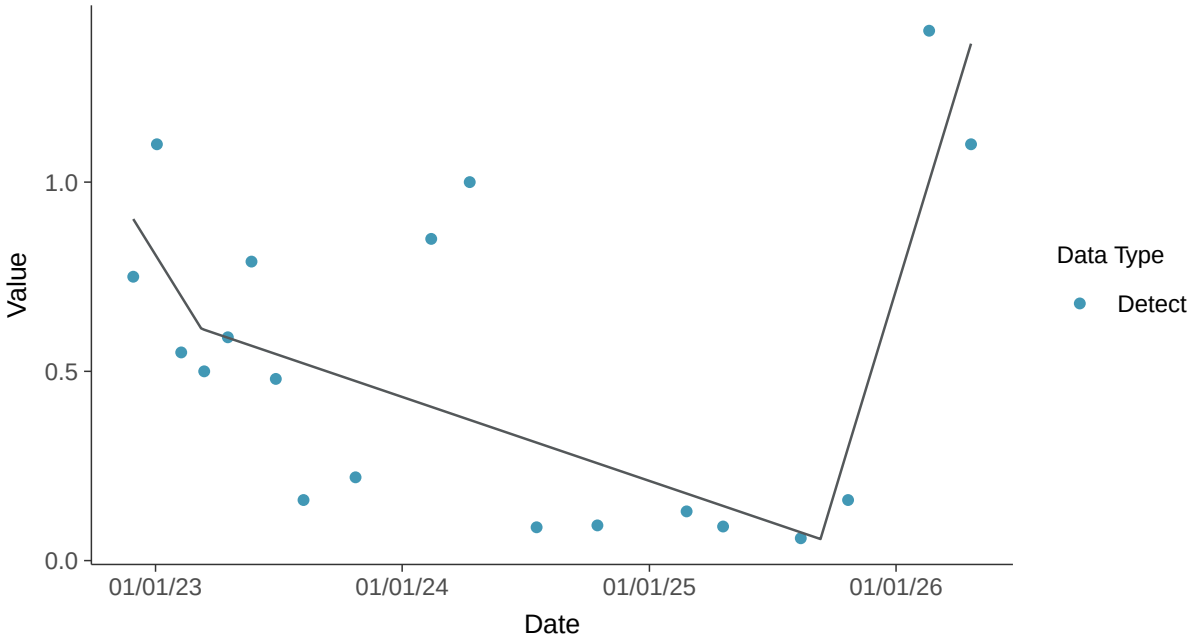
Trend Regression: Piecewise Linear-Linear

Iron, MW-01R (mg/L)



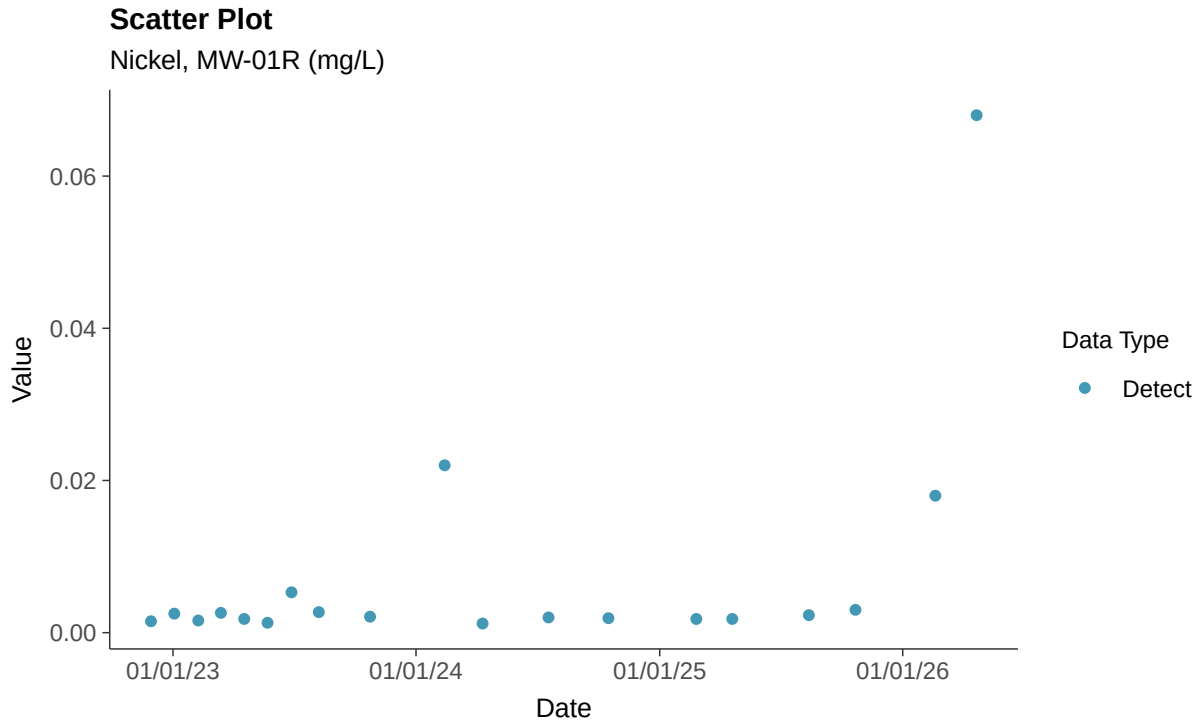
Trend Regression: Piecewise Linear-Linear-Linear

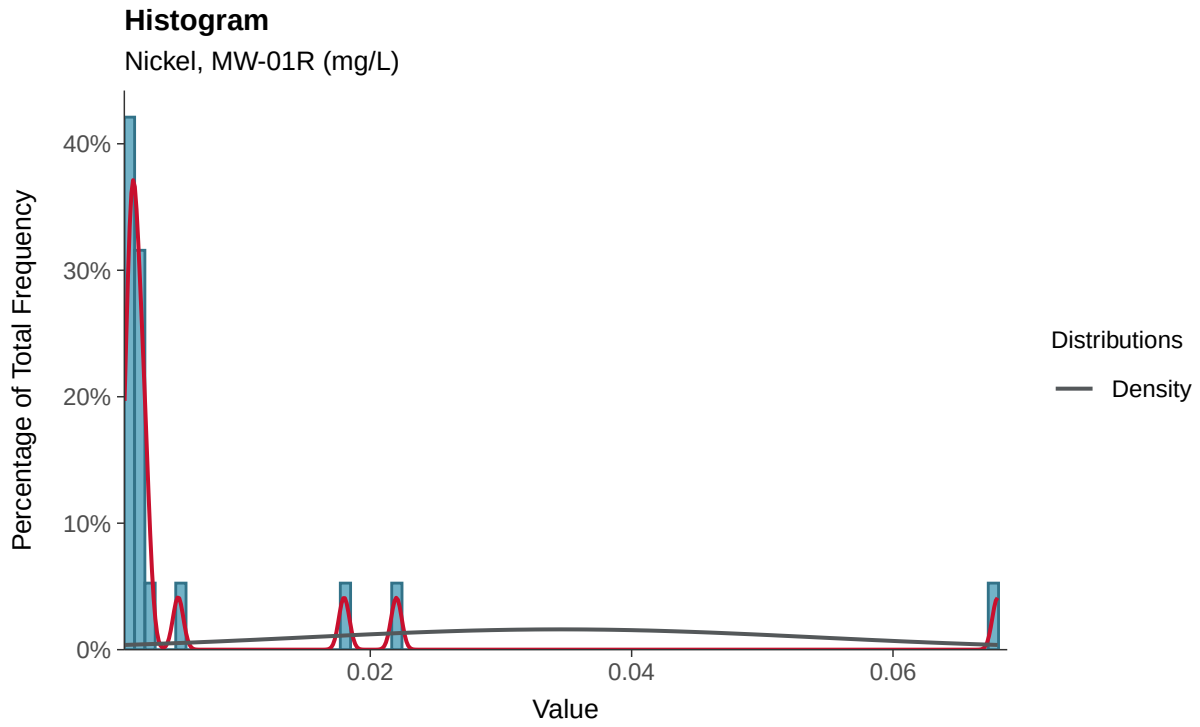
Iron, MW-01R (mg/L)



Part 115: Nickel, MW-01R

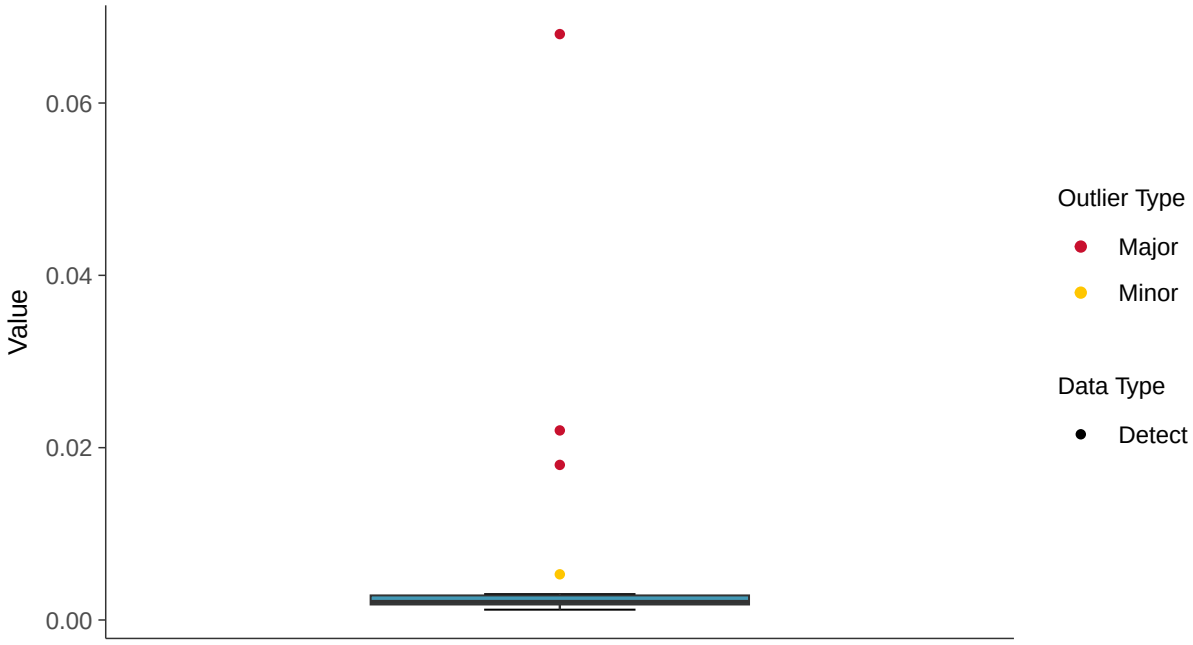
ID: 11_2_5_119





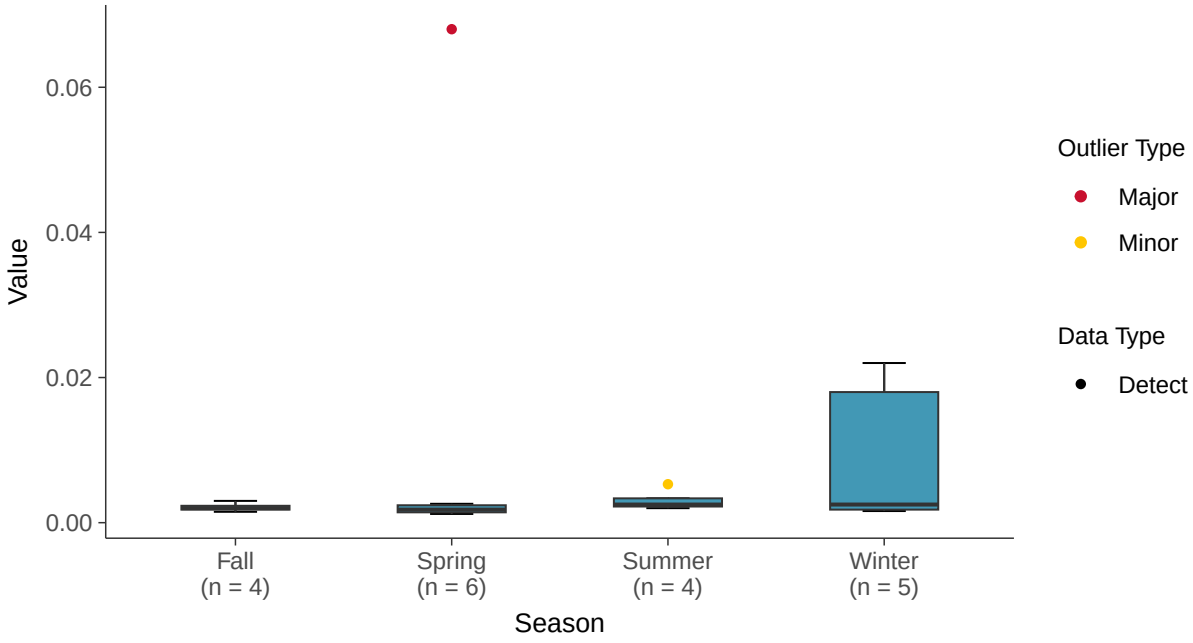
Boxplot

Nickel, MW-01R (mg/L)



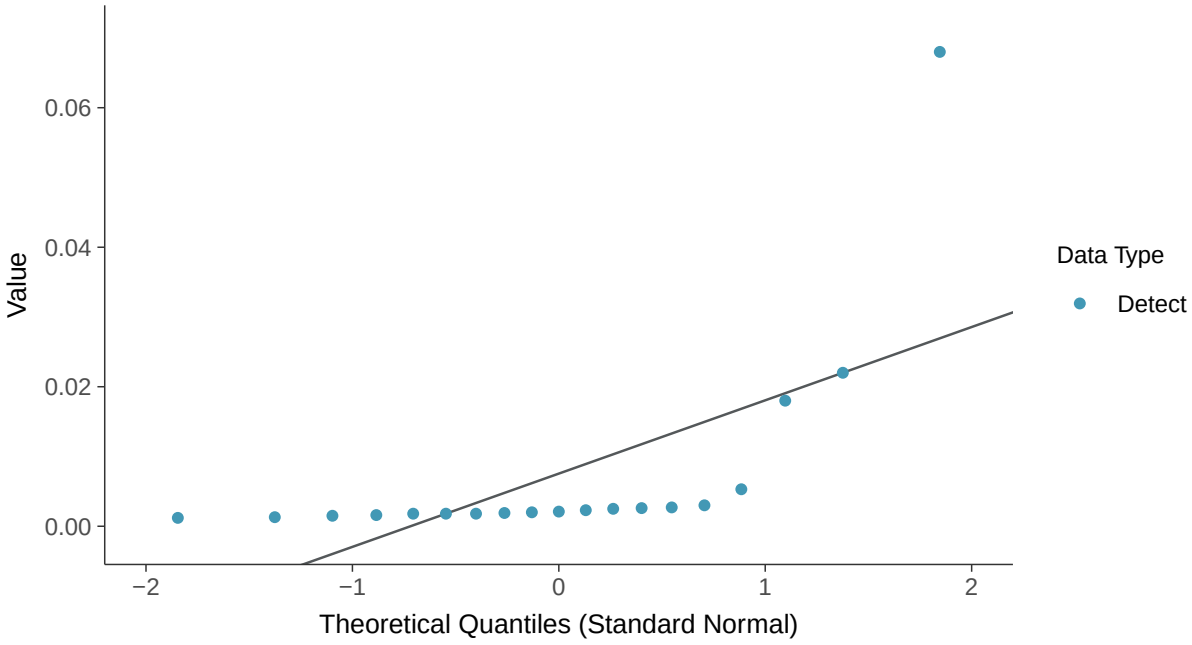
Boxplot by Season

Nickel, MW-01R (mg/L)



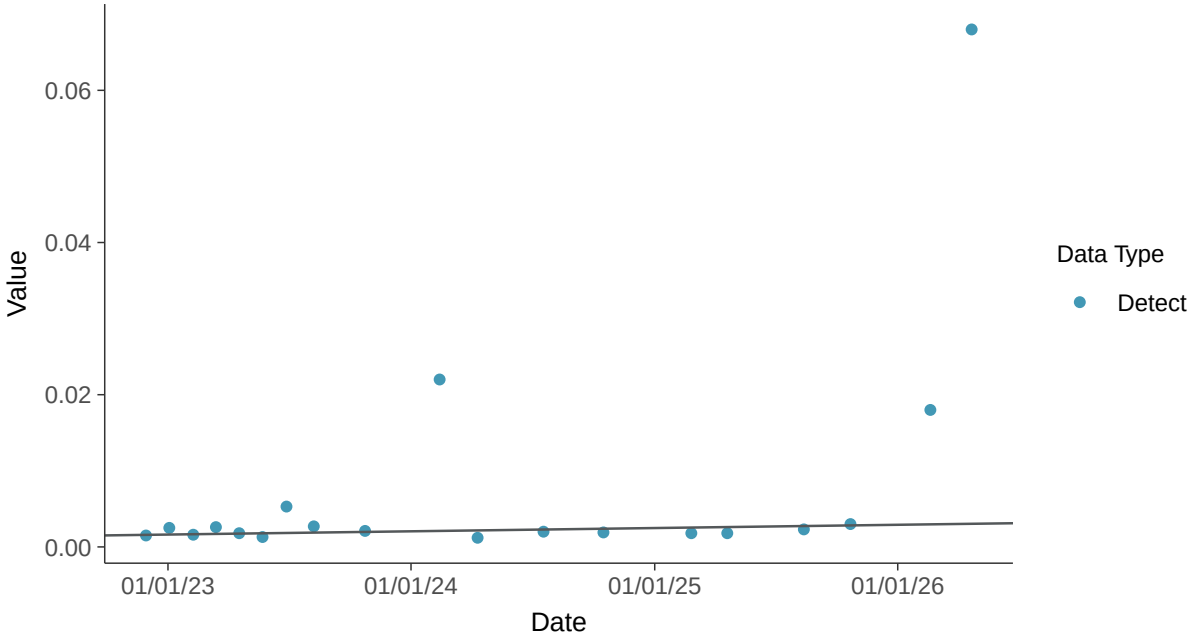
Normal Q-Q plot

Nickel, MW-01R (mg/L)



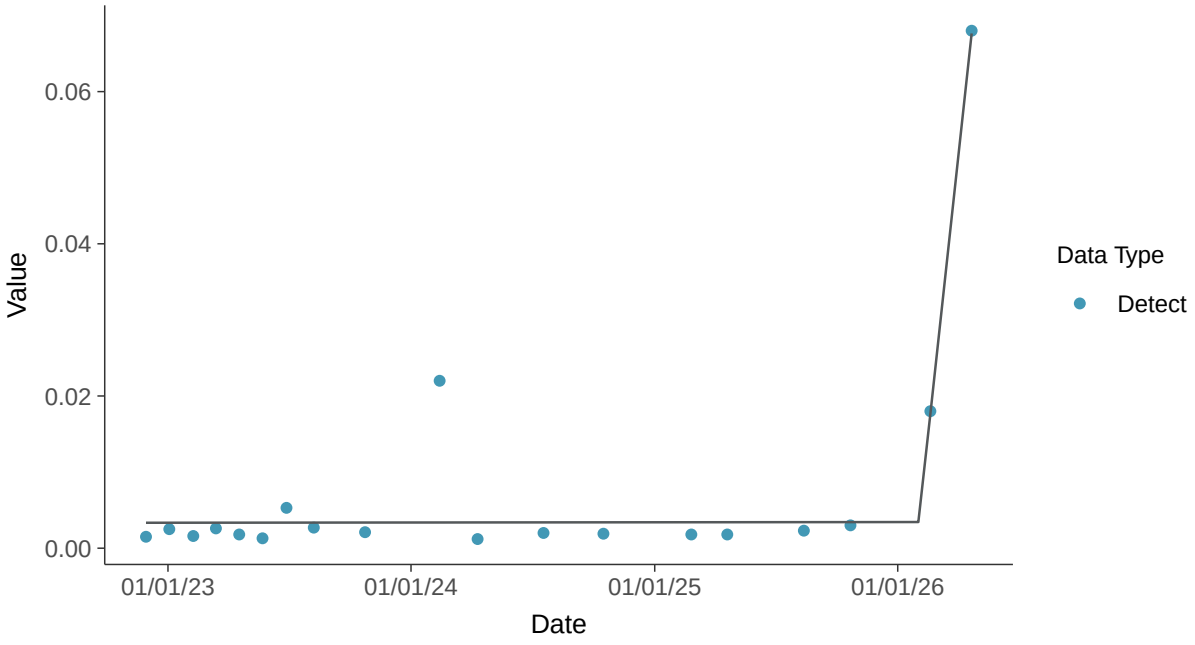
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-01R (mg/L)



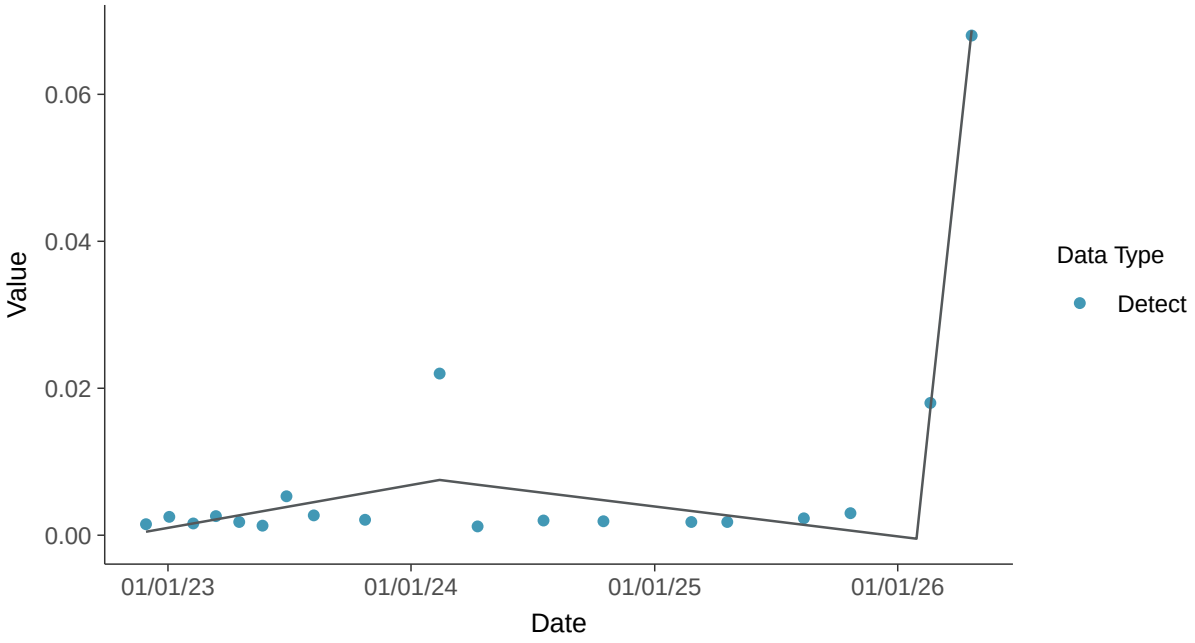
Trend Regression: Piecewise Linear-Linear

Nickel, MW-01R (mg/L)



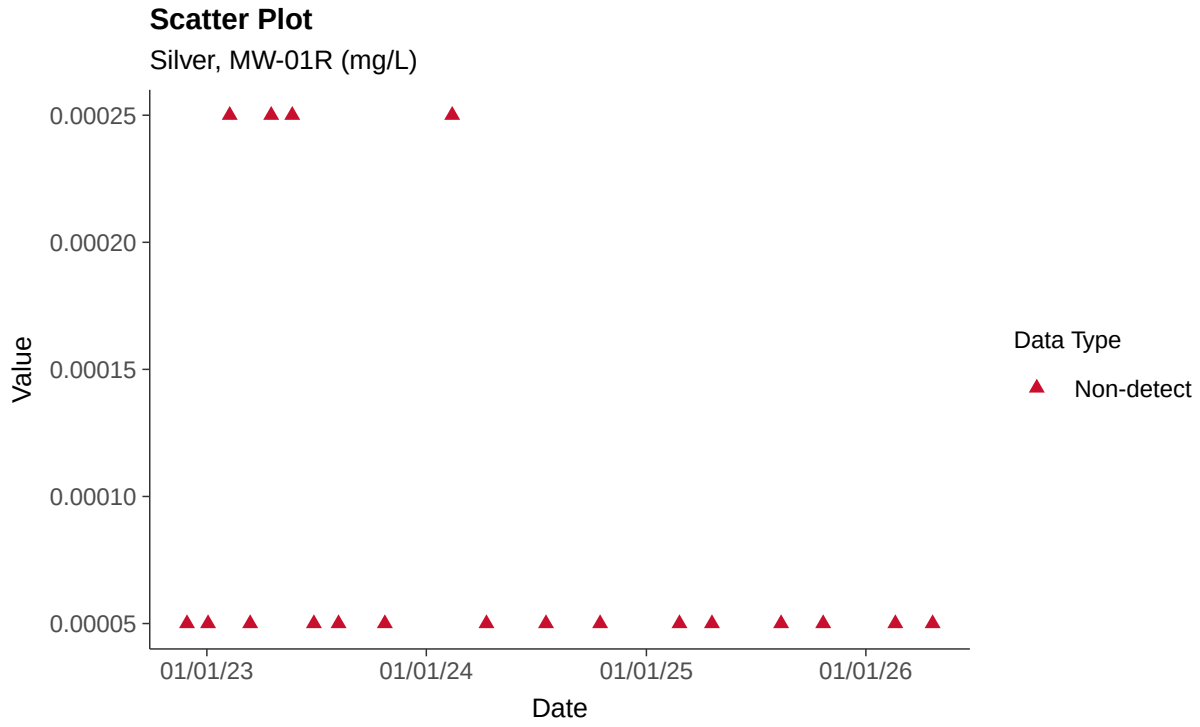
Trend Regression: Piecewise Linear-Linear-Linear

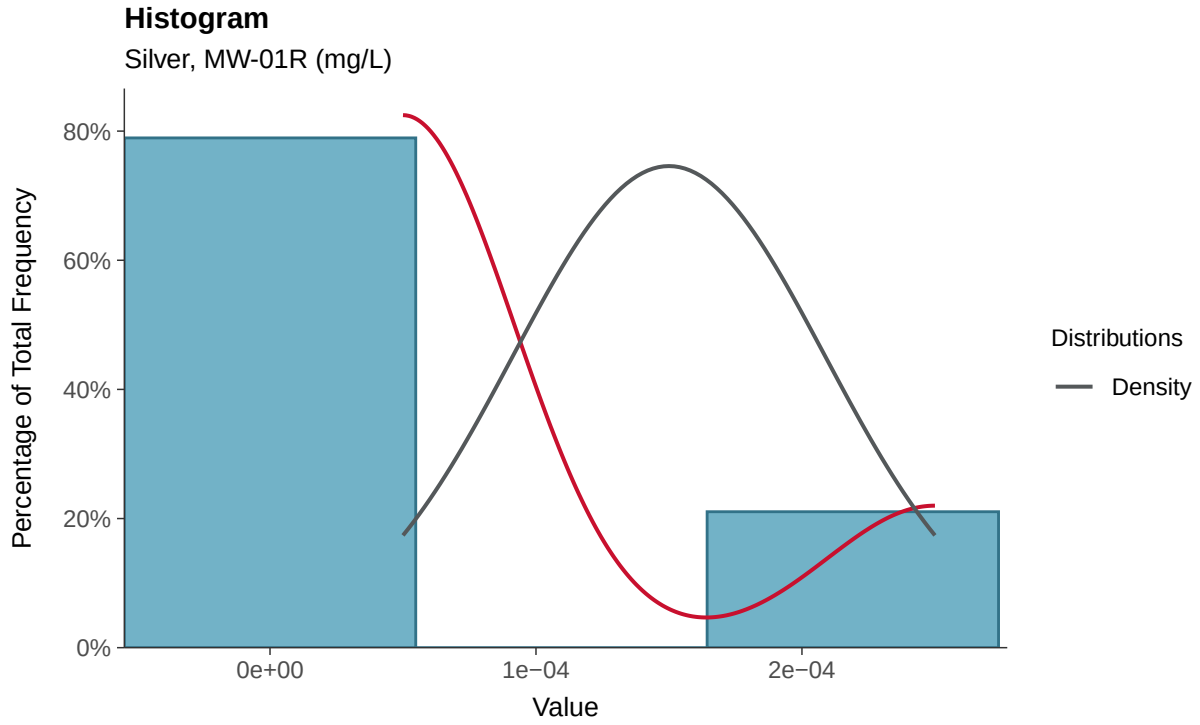
Nickel, MW-01R (mg/L)



Part 115: Silver, MW-01R

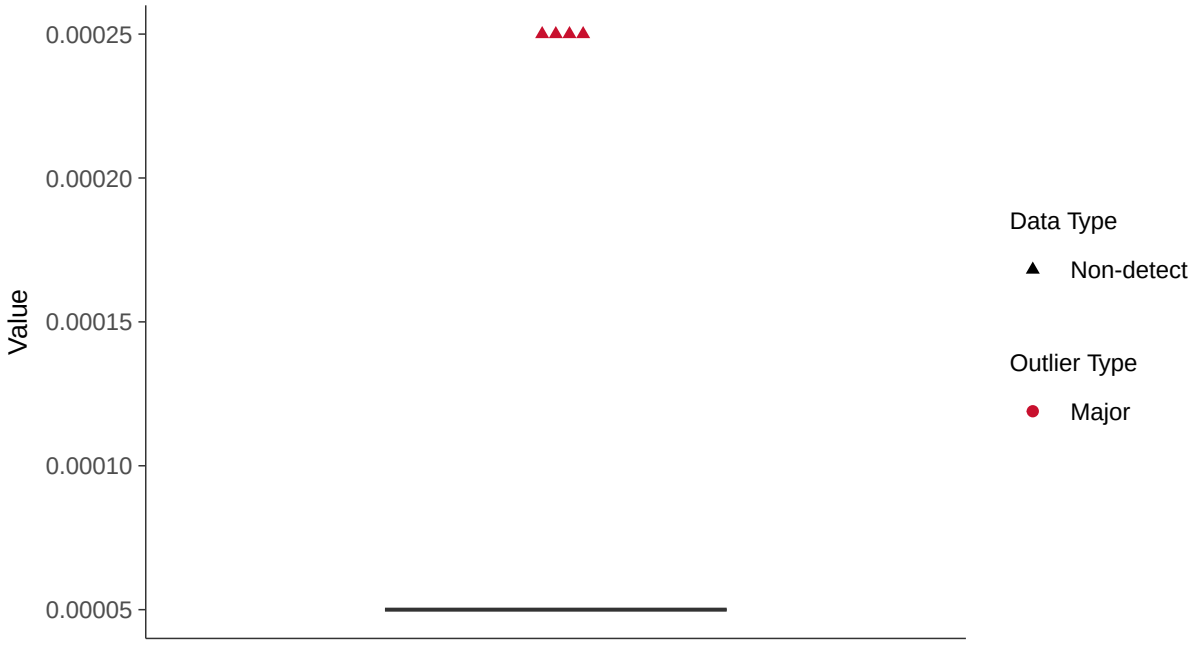
ID: 11_2_5_123





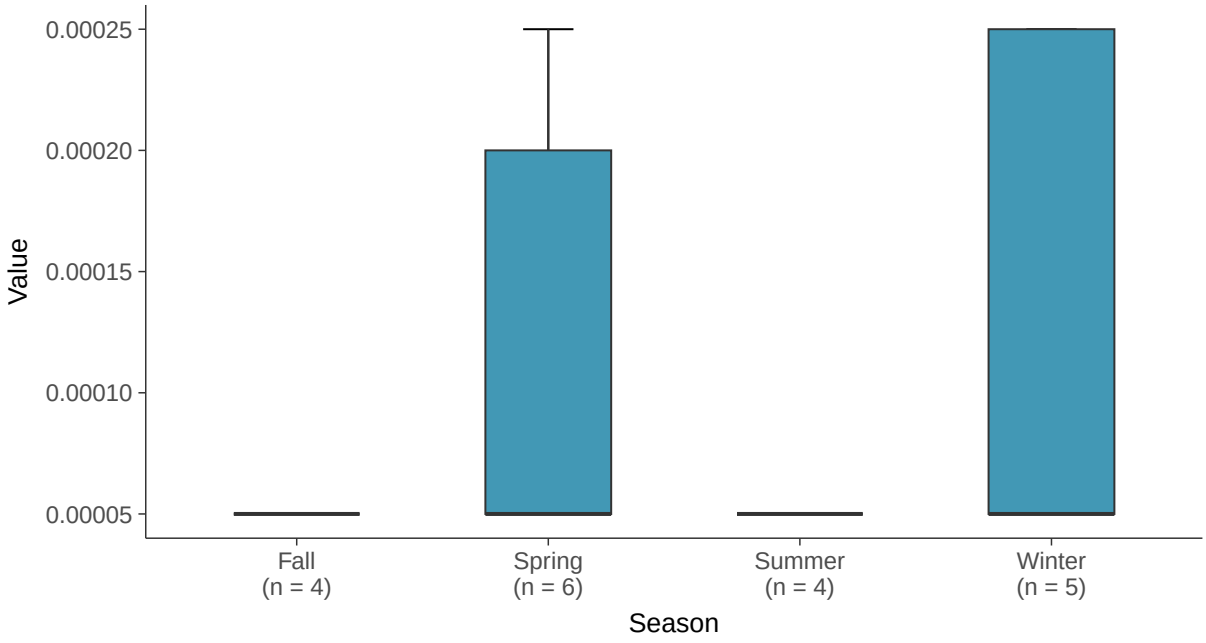
Boxplot

Silver, MW-01R (mg/L)



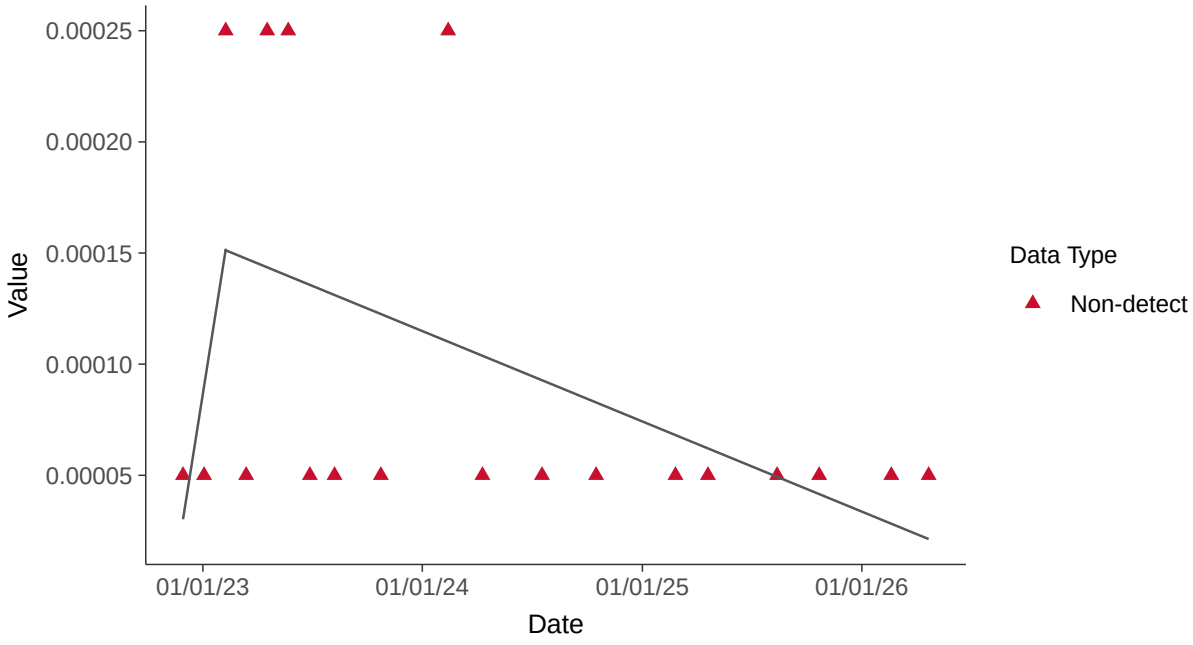
Boxplot by Season

Silver, MW-01R (mg/L)



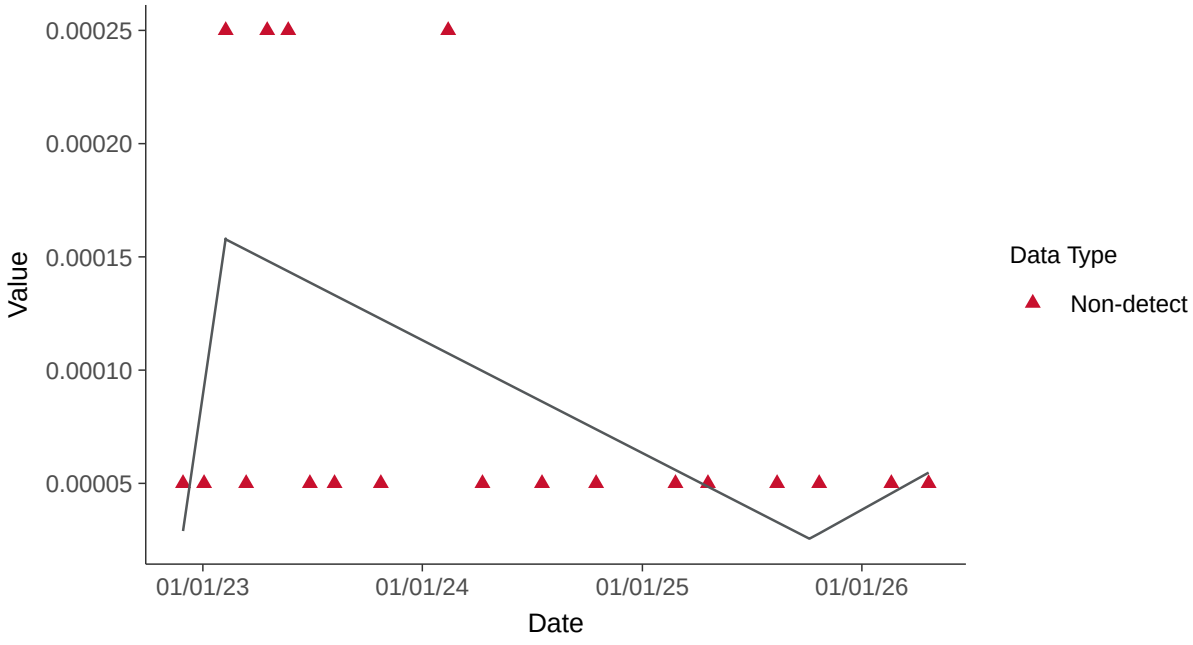
Trend Regression: Piecewise Linear-Linear

Silver, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-01R (mg/L)

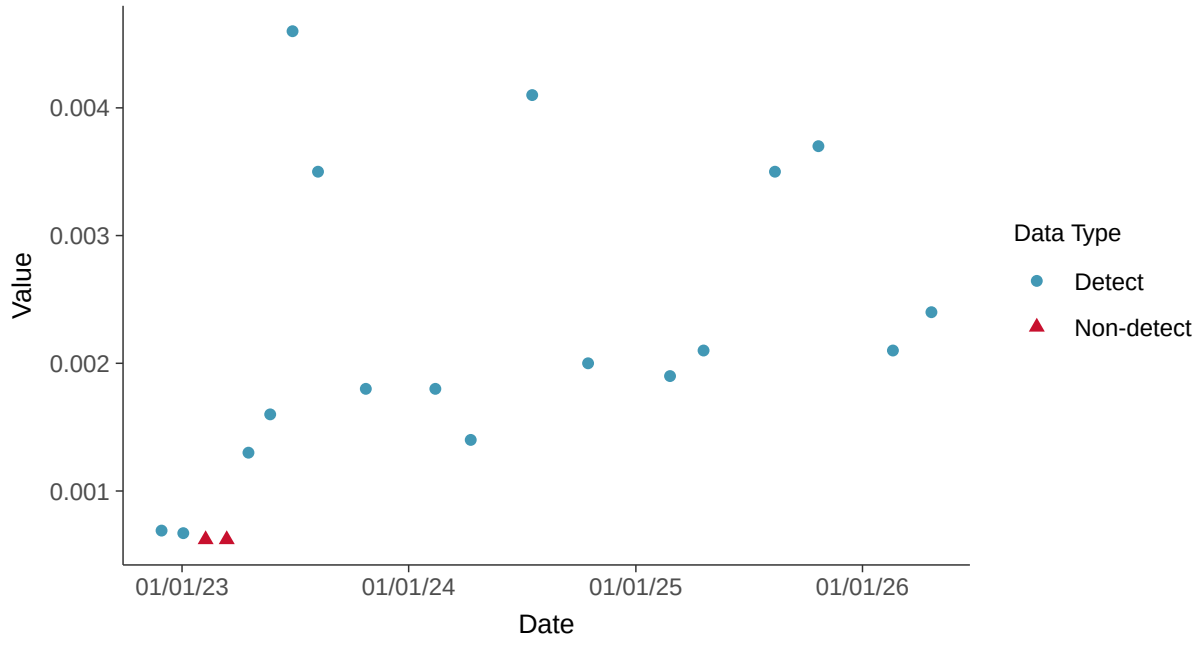


Part 115: Vanadium, MW-01R

ID: 11_2_5_128

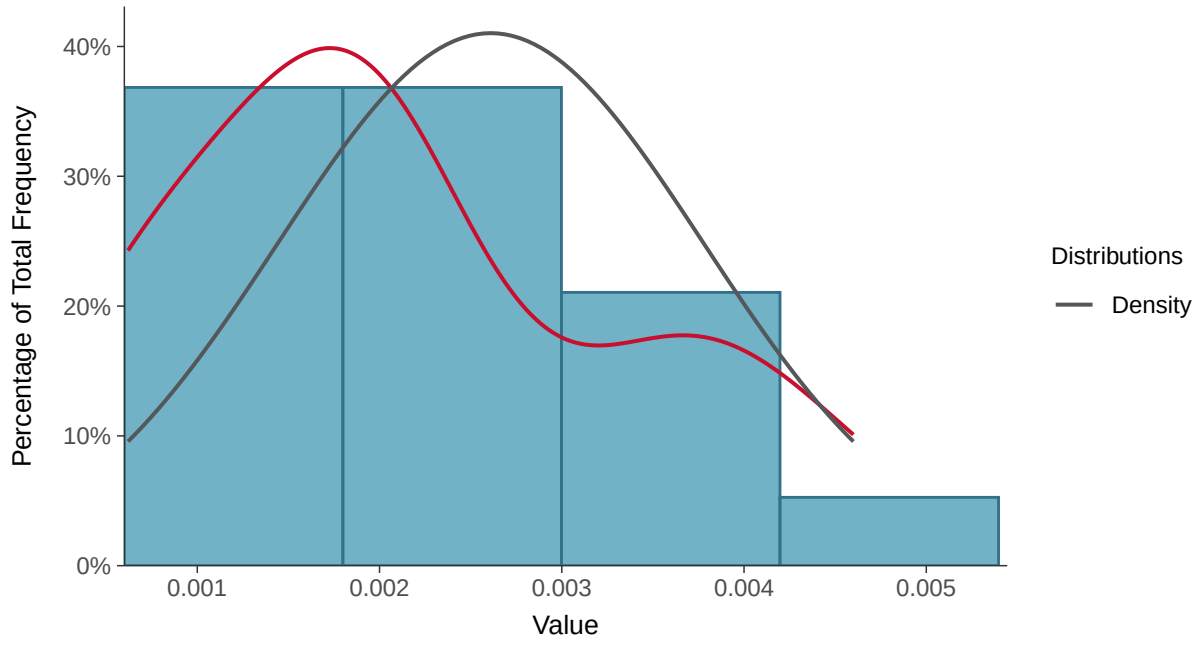
Scatter Plot

Vanadium, MW-01R (mg/L)



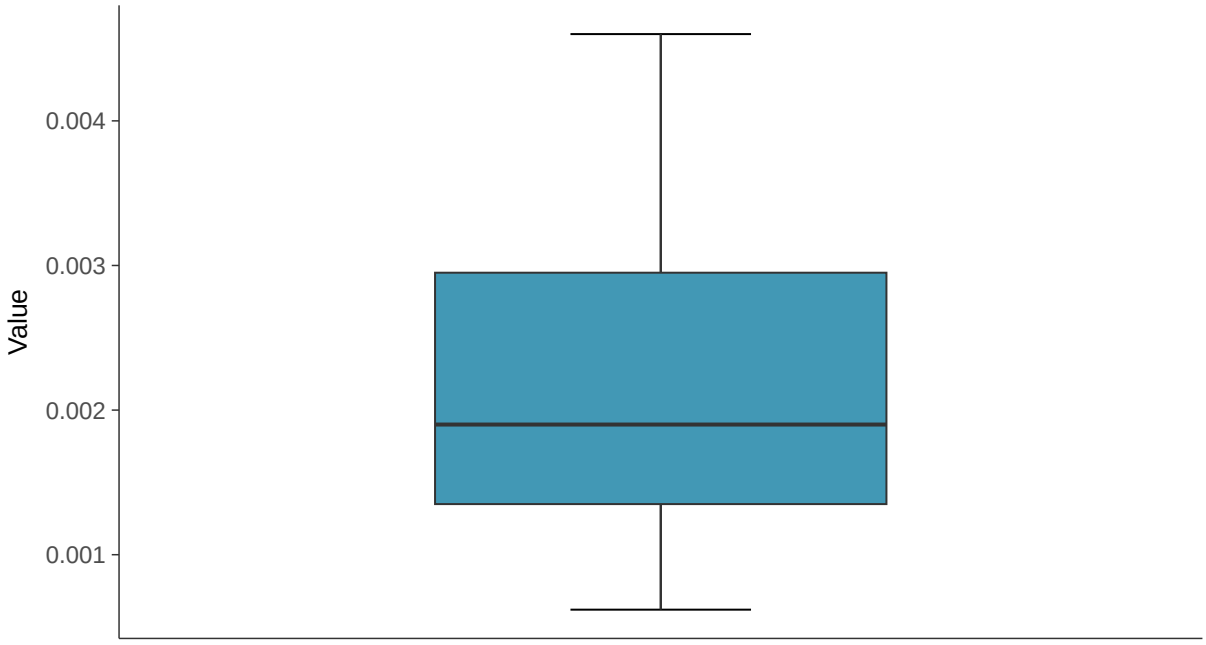
Histogram

Vanadium, MW-01R (mg/L)



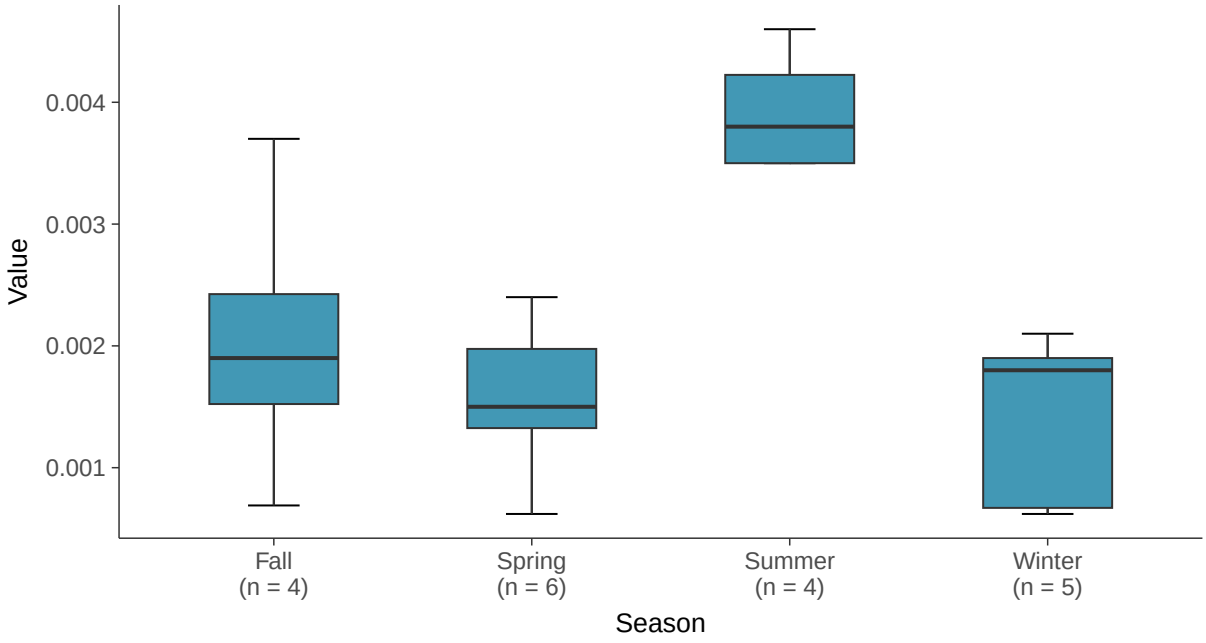
Boxplot

Vanadium, MW-01R (mg/L)



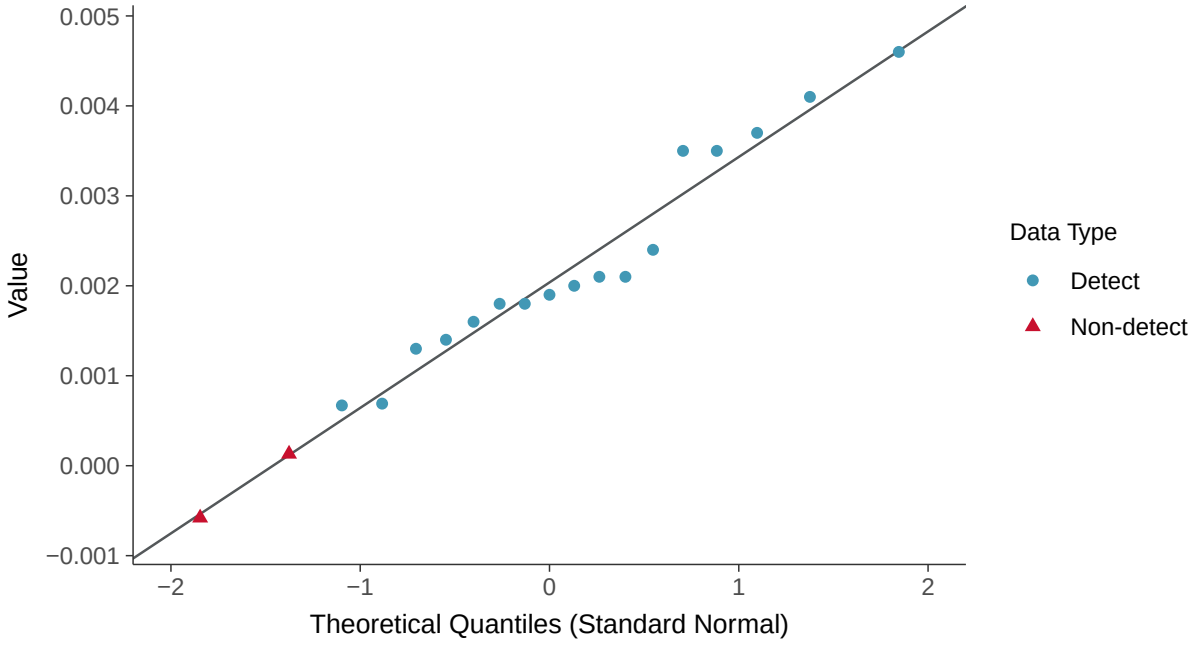
Boxplot by Season

Vanadium, MW-01R (mg/L)



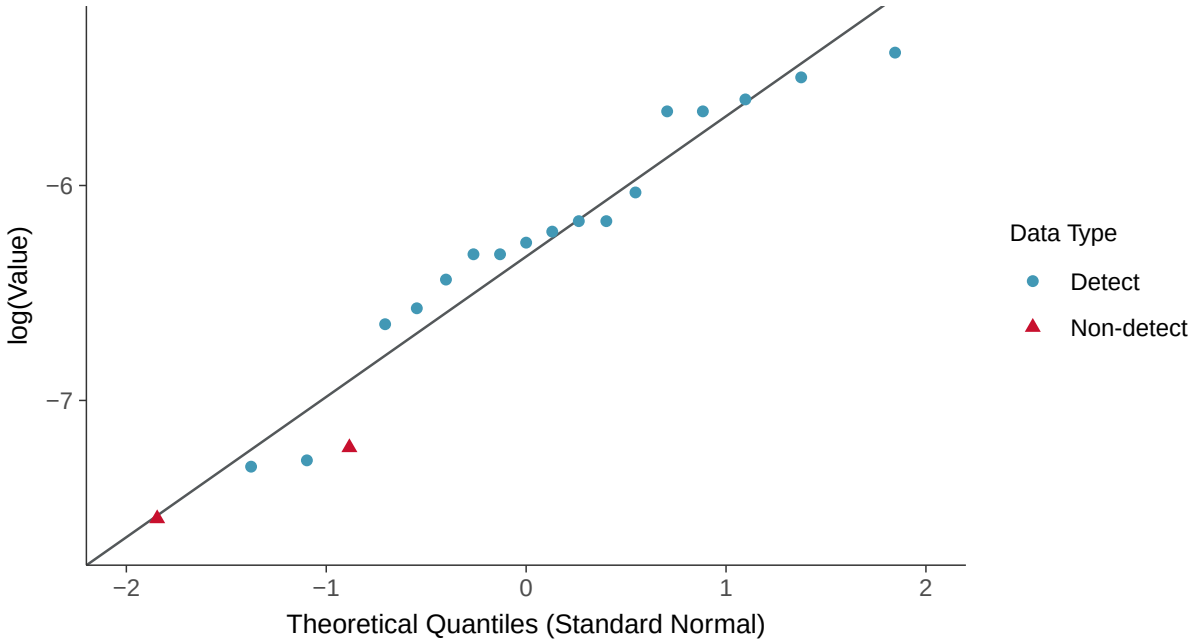
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



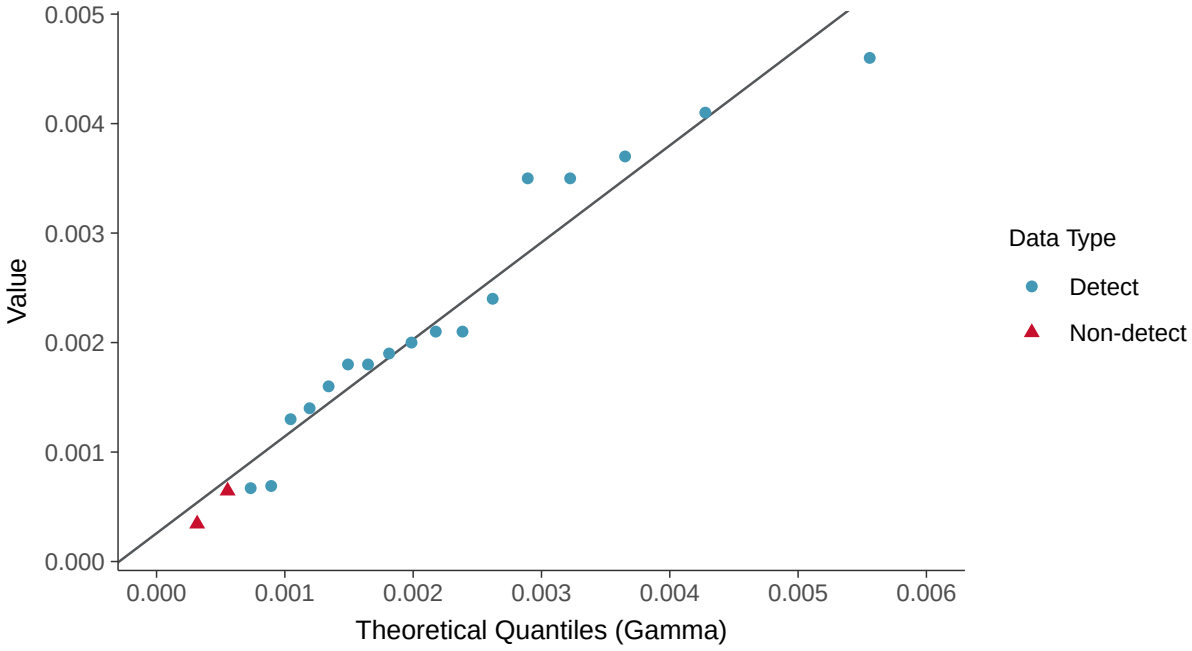
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



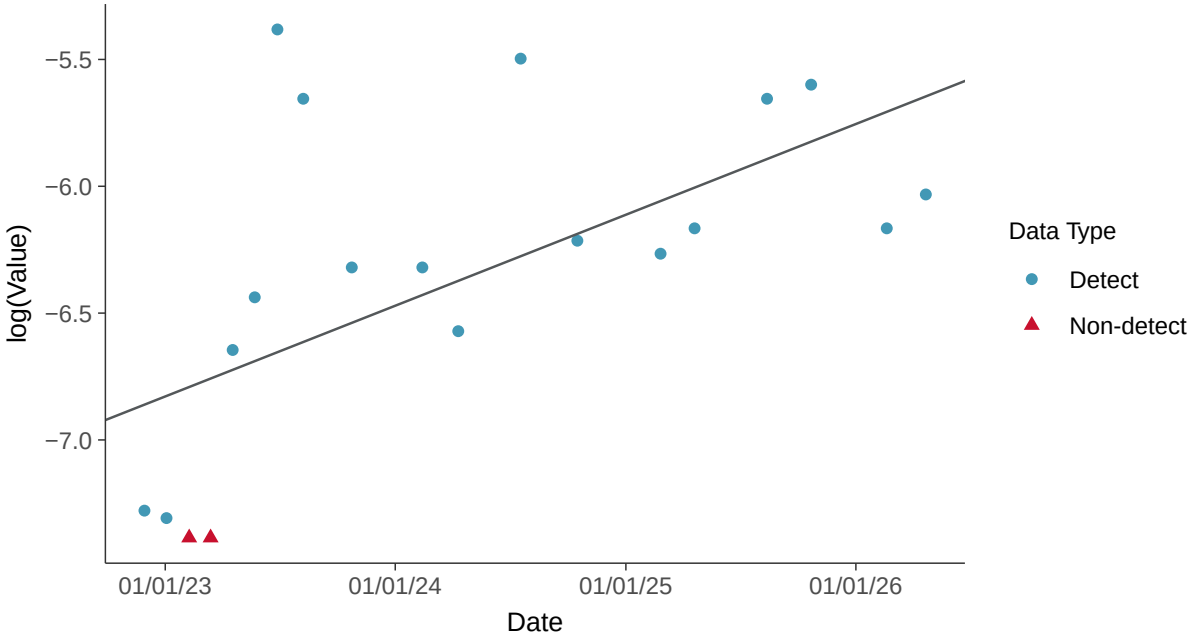
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-01R (mg/L)



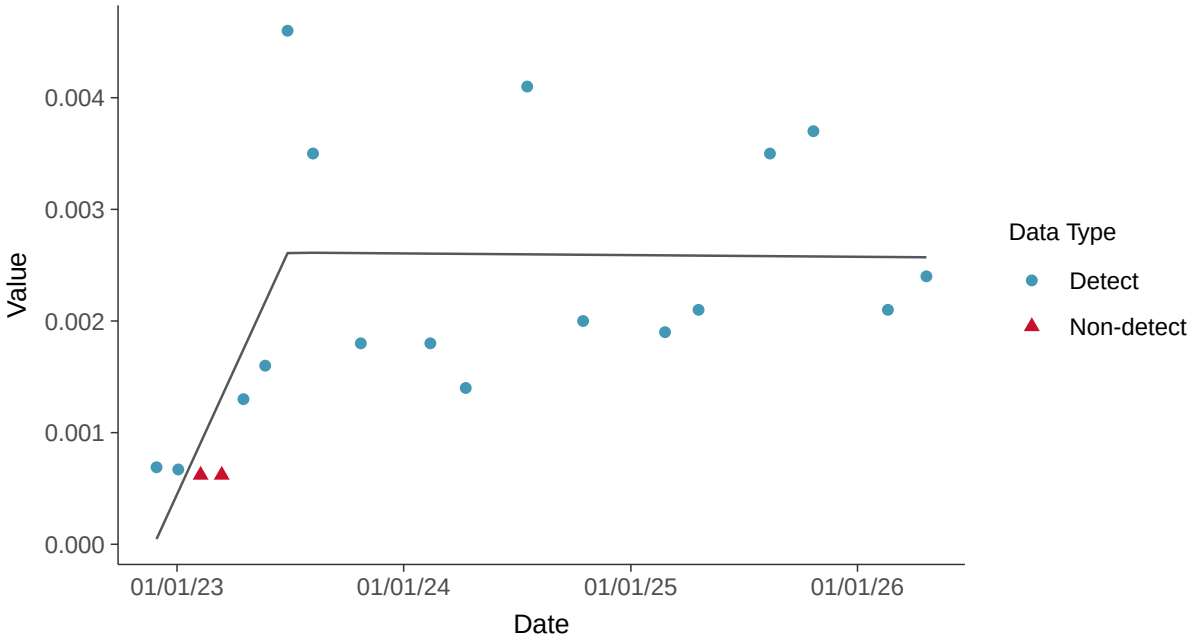
Trend Regression: Lognormal MLE

Vanadium, MW-01R (mg/L)



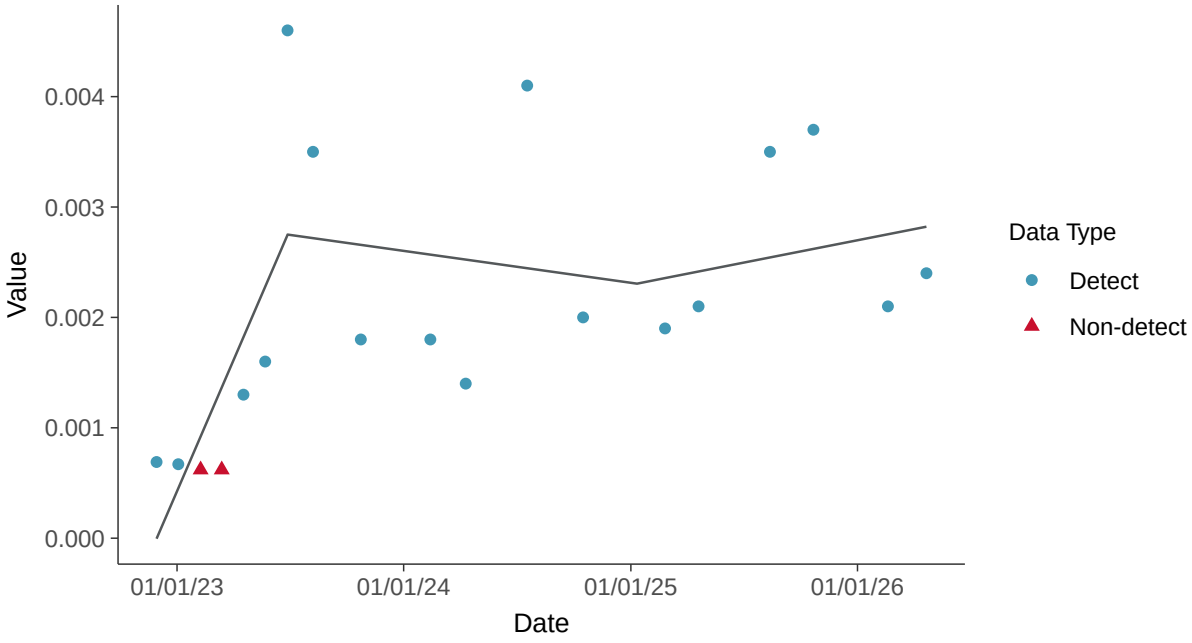
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-01R (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-01R (mg/L)

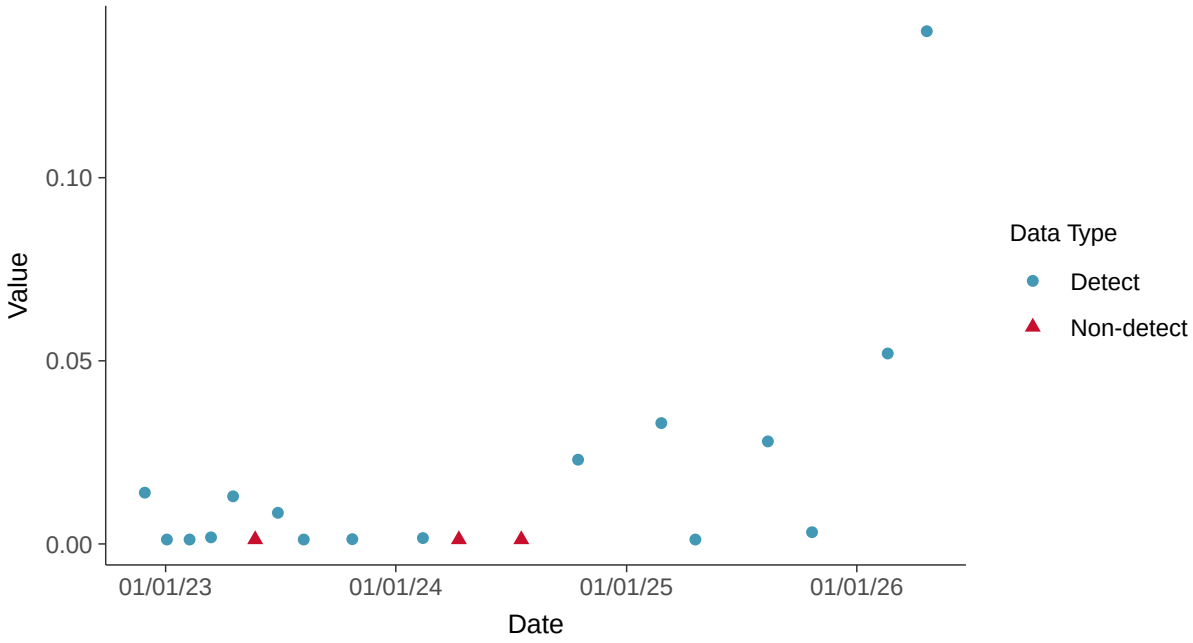


Part 115: Zinc, MW-01R

ID: 11_2_5_129

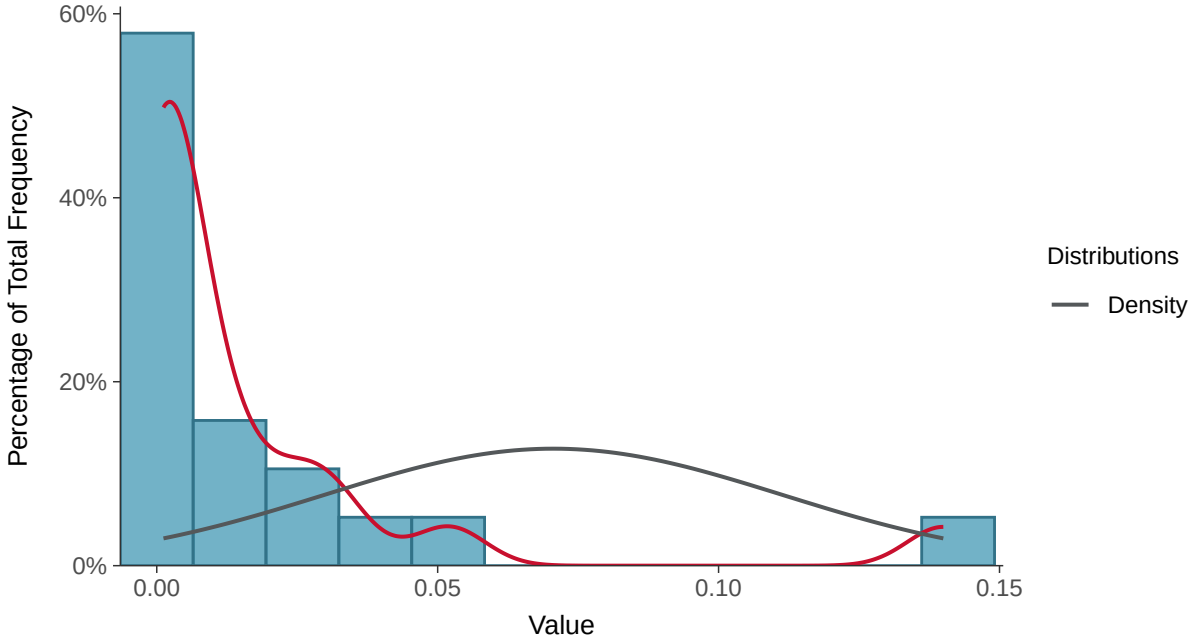
Scatter Plot

Zinc, MW-01R (mg/L)



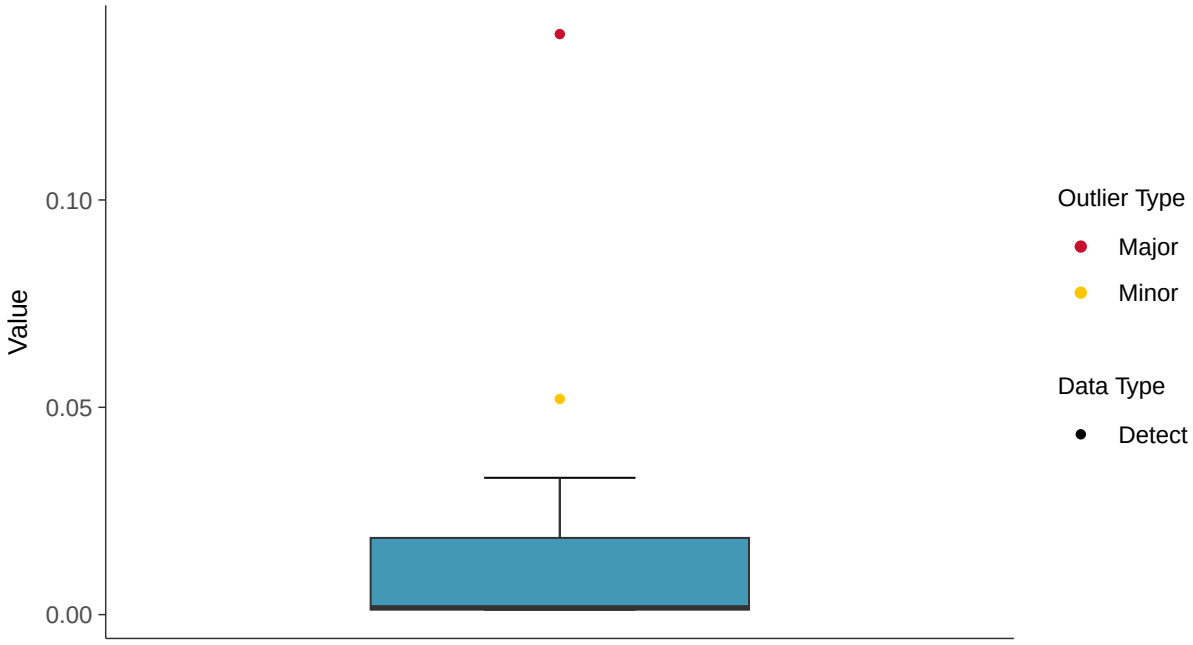
Histogram

Zinc, MW-01R (mg/L)



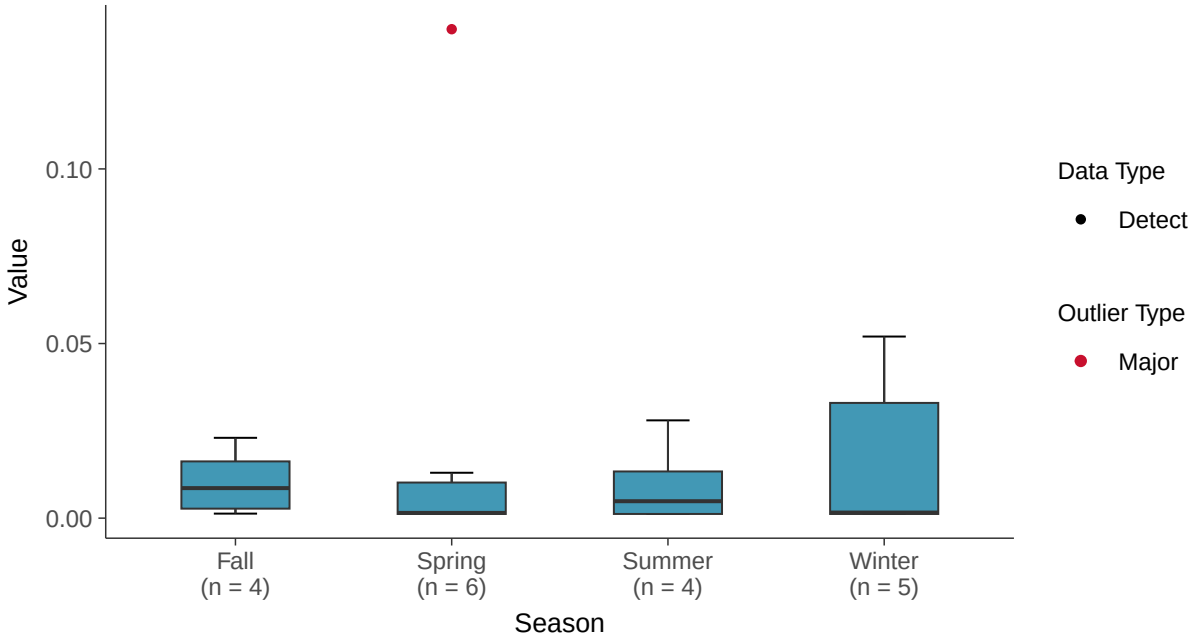
Boxplot

Zinc, MW-01R (mg/L)



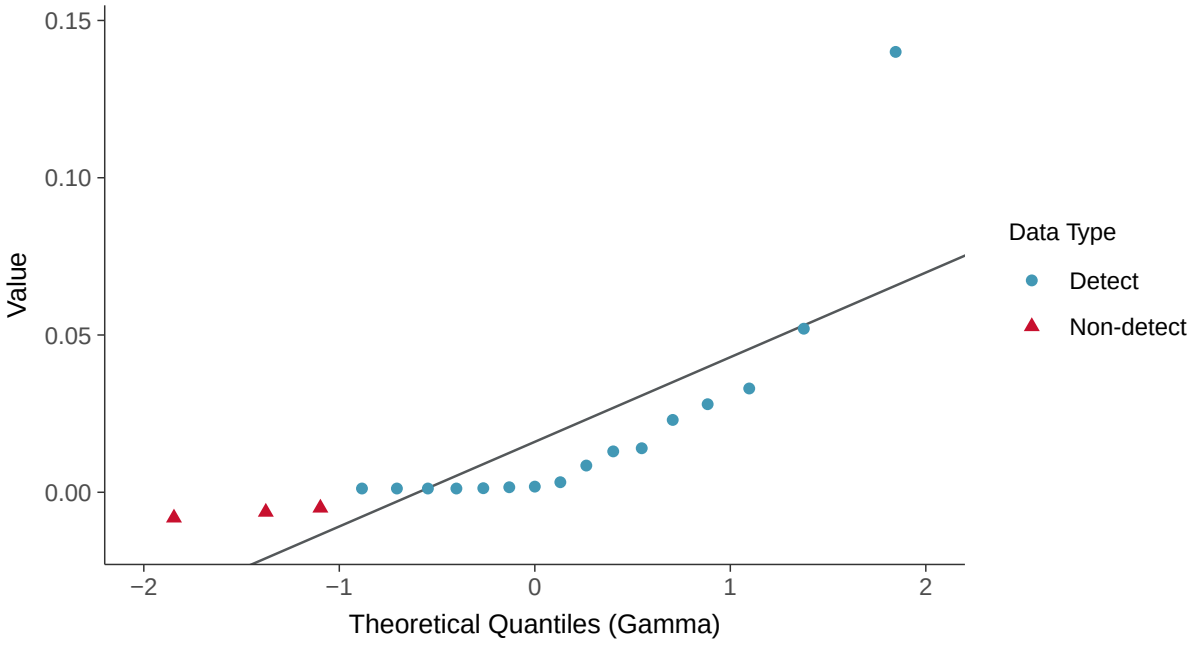
Boxplot by Season

Zinc, MW-01R (mg/L)



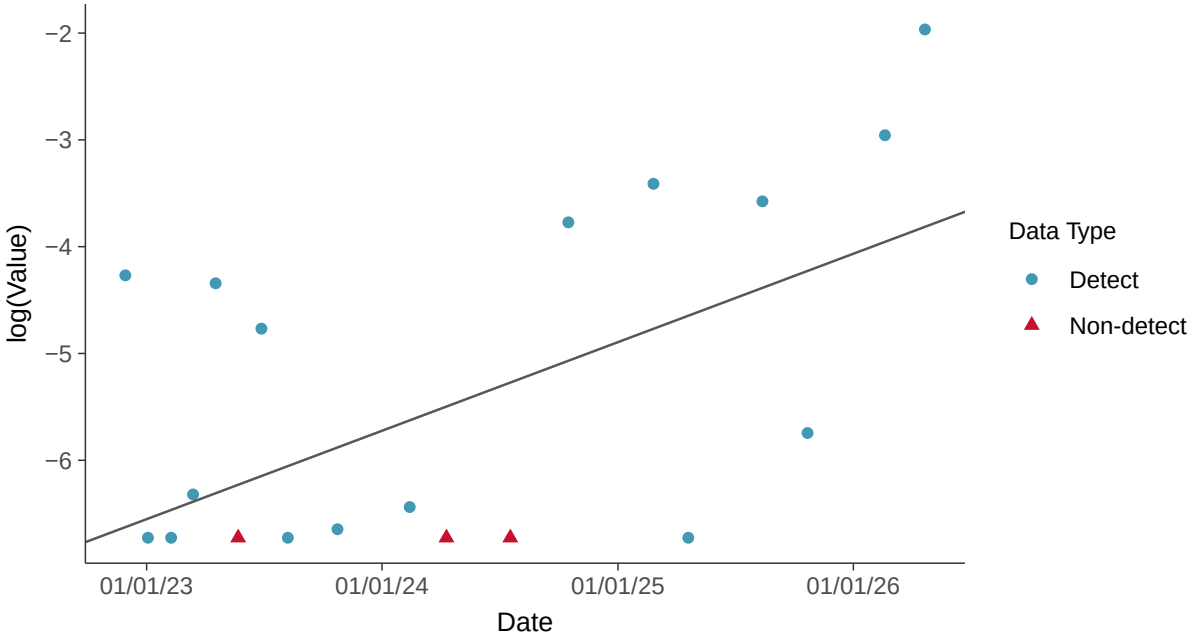
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-01R (mg/L)



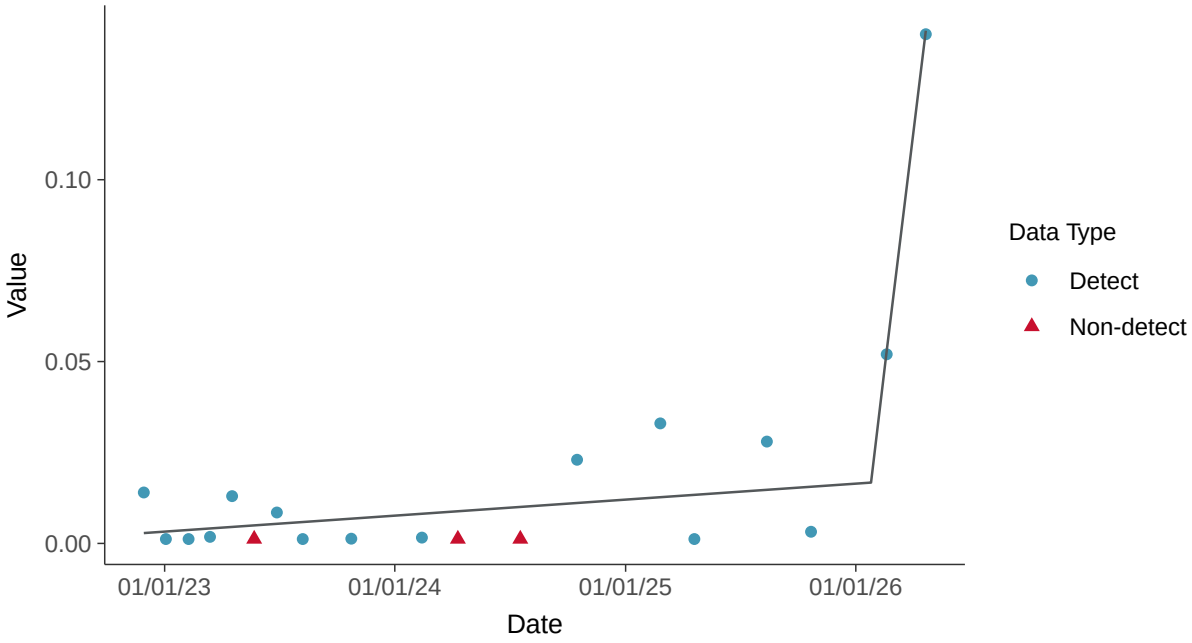
Trend Regression: Lognormal MLE

Zinc, MW-01R (mg/L)



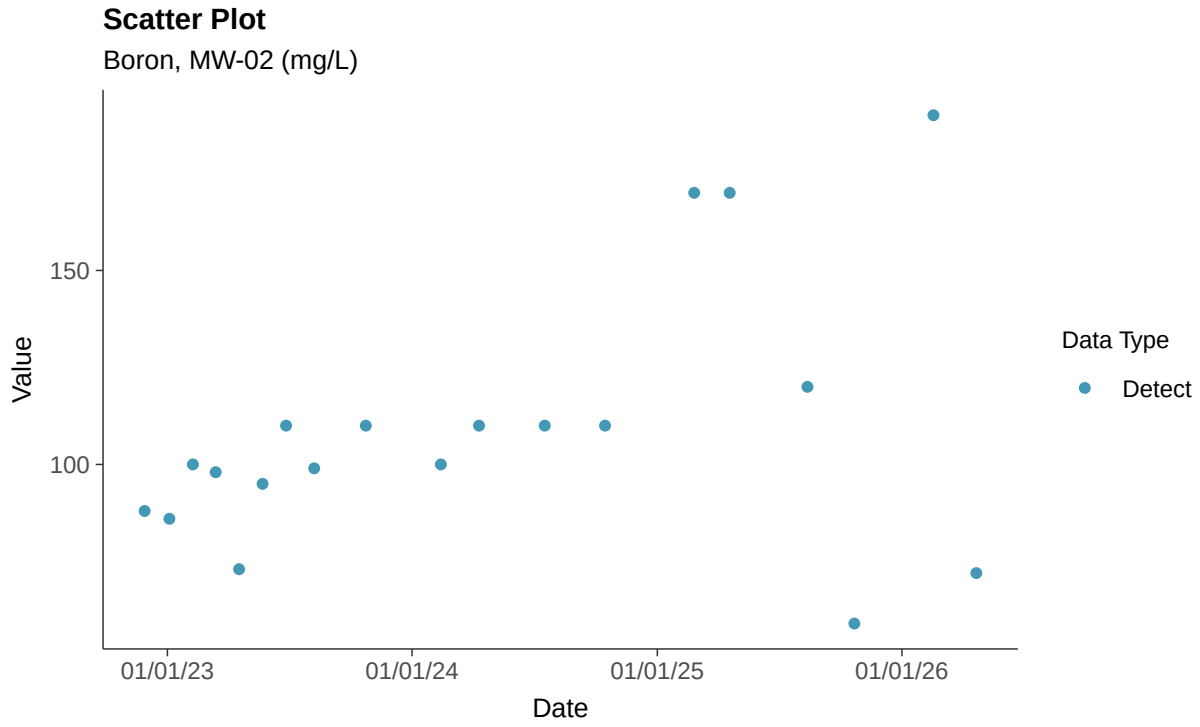
Trend Regression: Piecewise Linear-Linear

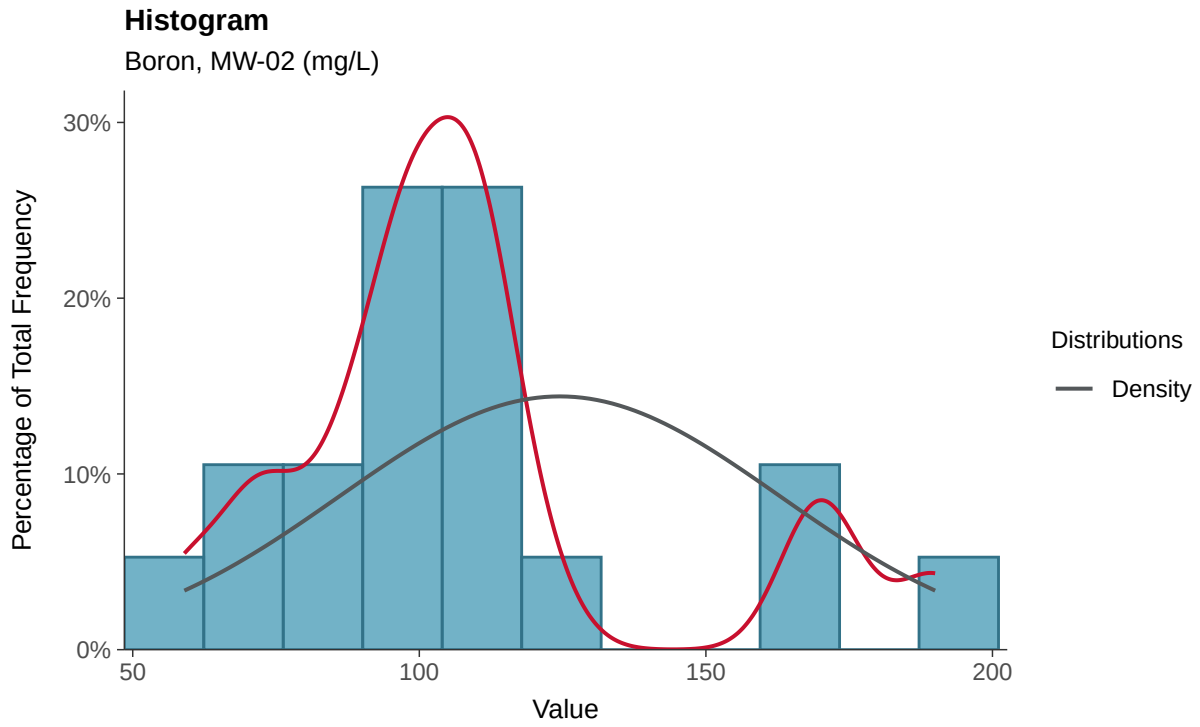
Zinc, MW-01R (mg/L)



Appendix III: Boron, MW-02

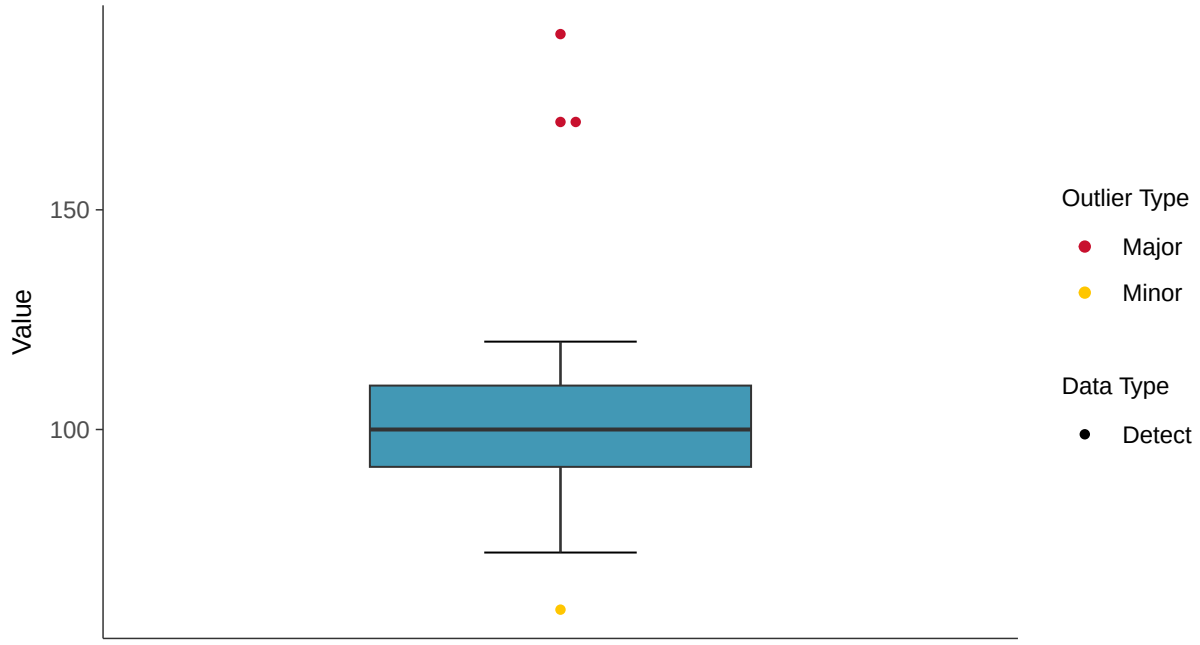
ID: 12_2_3_105





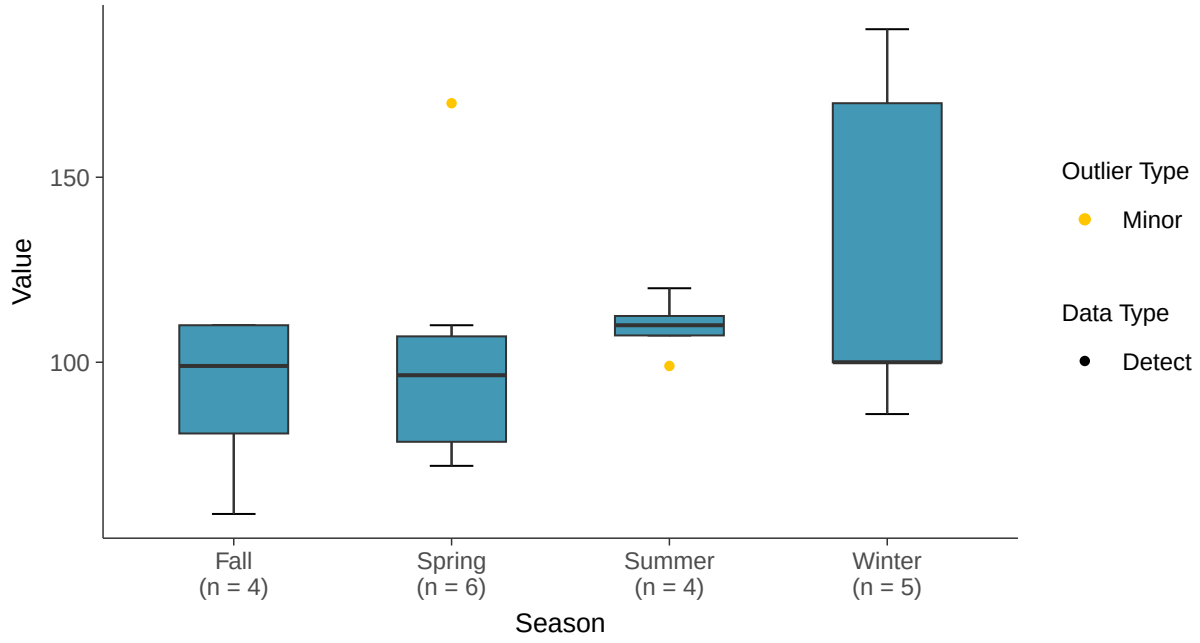
Boxplot

Boron, MW-02 (mg/L)



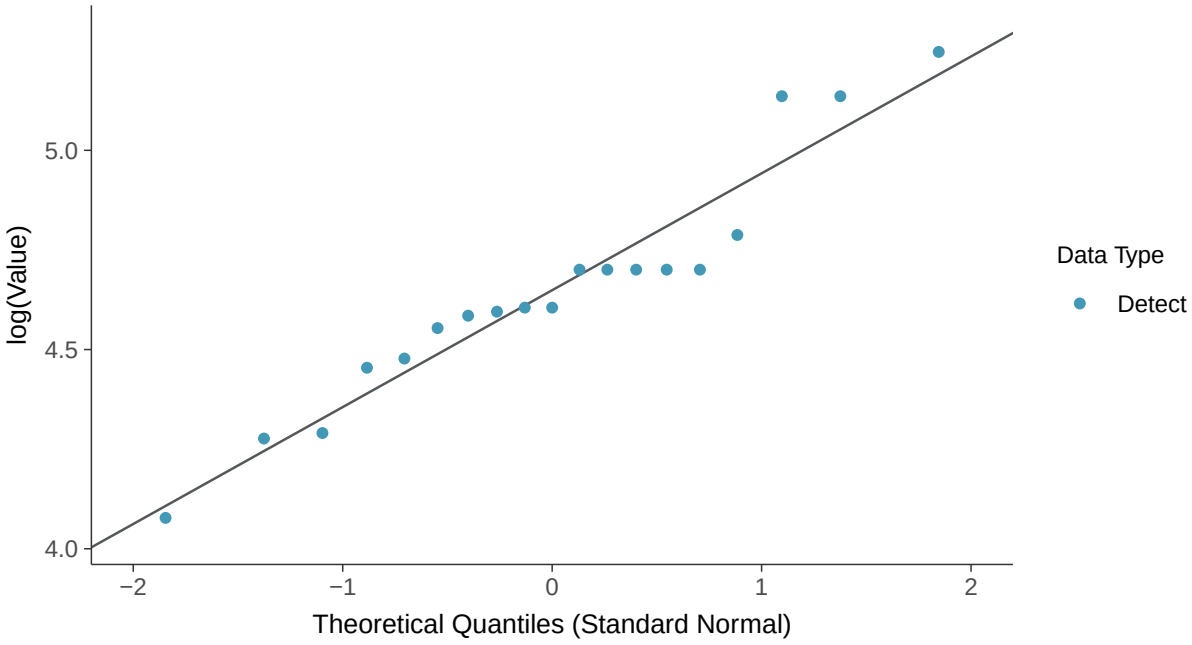
Boxplot by Season

Boron, MW-02 (mg/L)



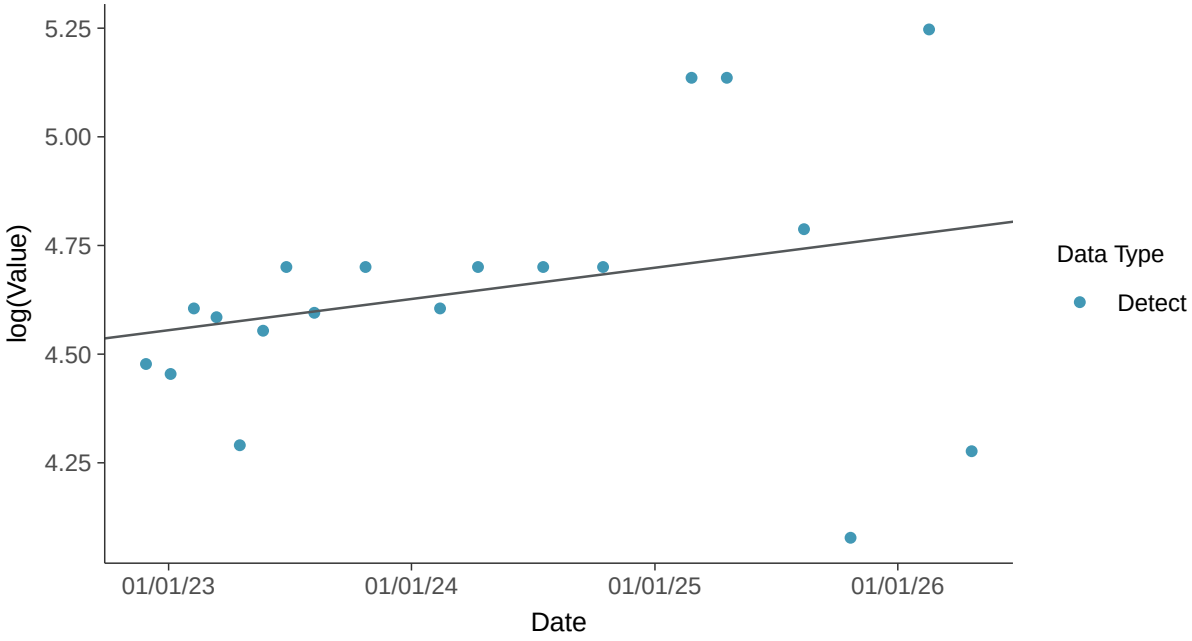
Lognormal Q-Q plot

Boron, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Boron, MW-02 (mg/L)

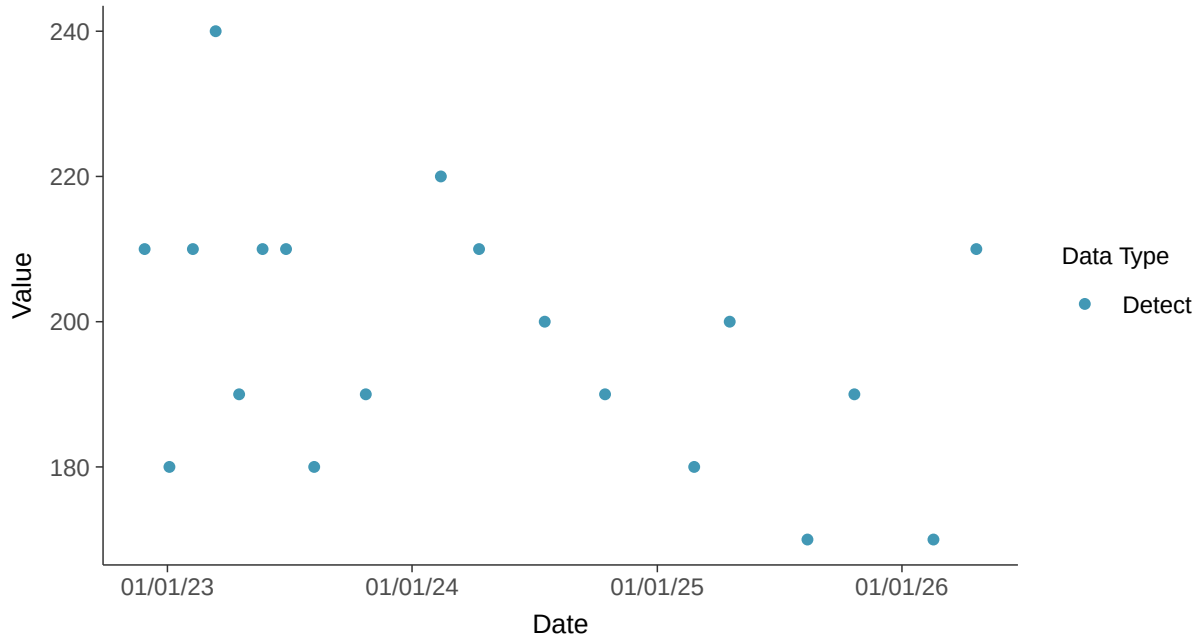


Appendix III: Calcium, MW-02

ID: 12_2_3_107

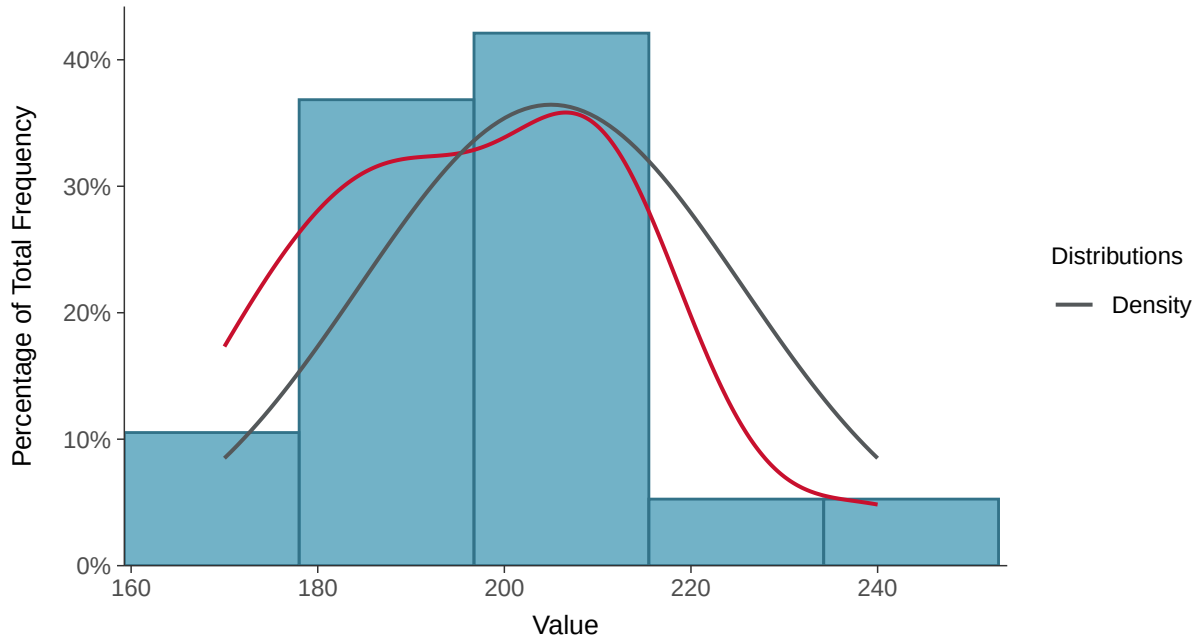
Scatter Plot

Calcium, MW-02 (mg/L)



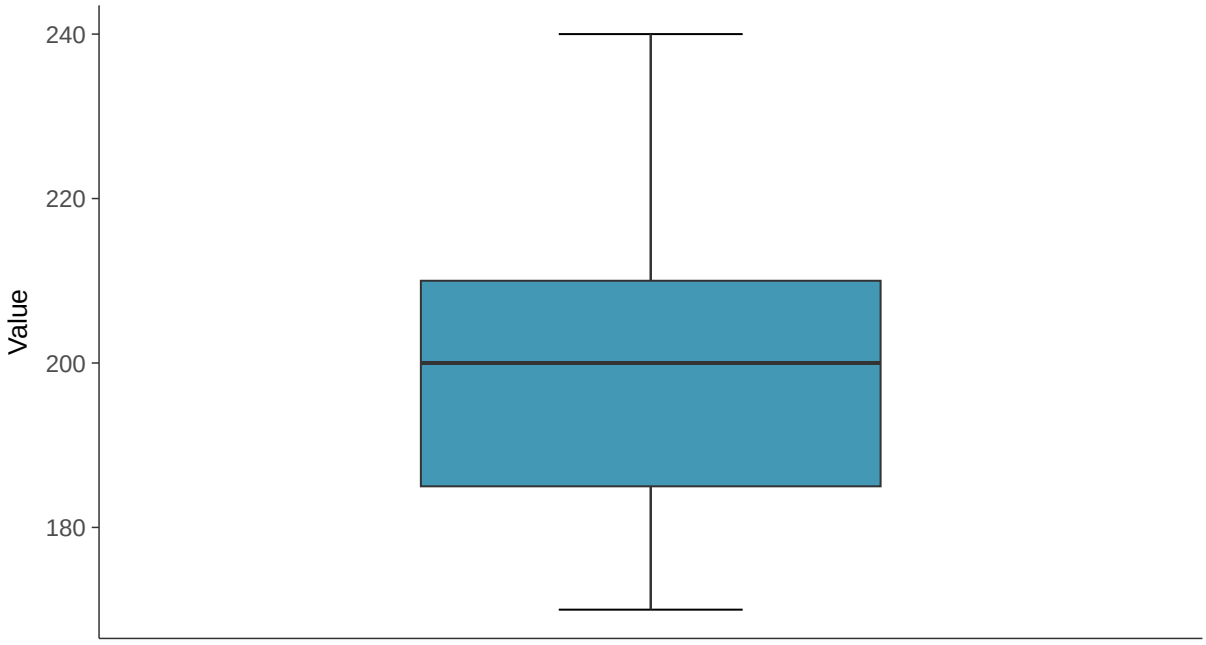
Histogram

Calcium, MW-02 (mg/L)



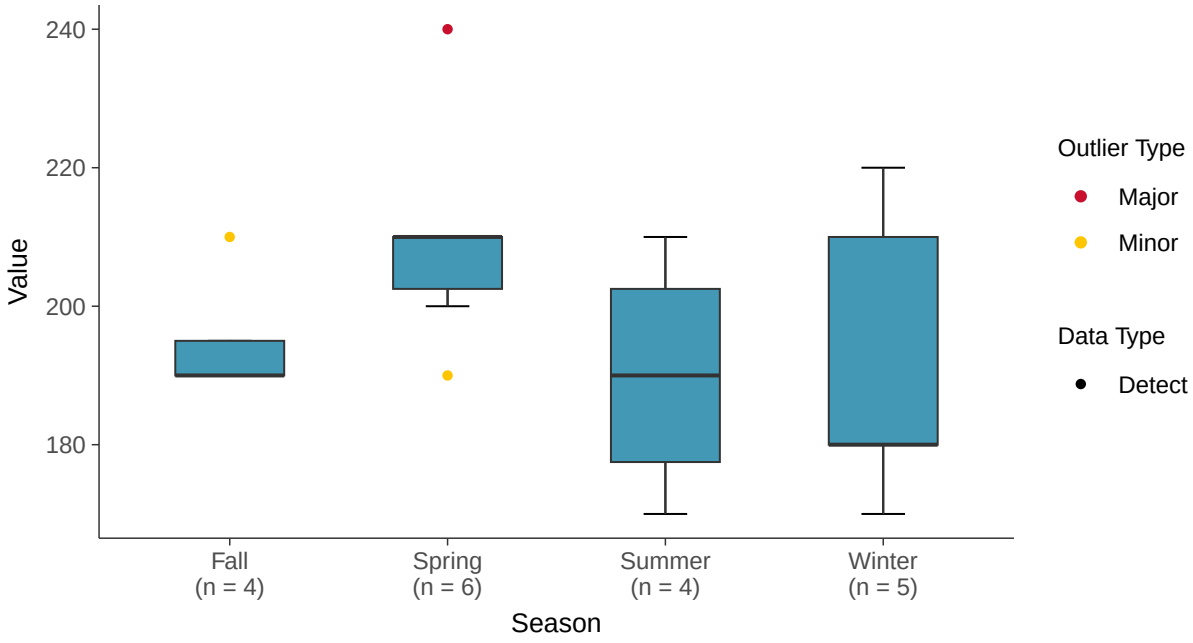
Boxplot

Calcium, MW-02 (mg/L)



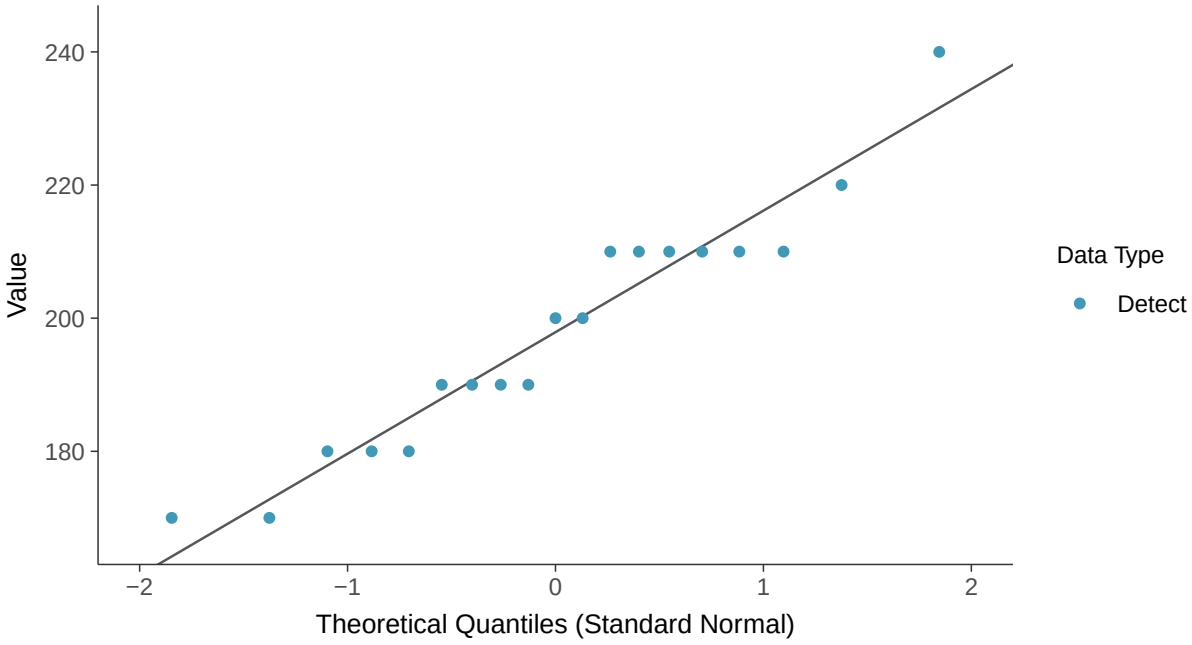
Boxplot by Season

Calcium, MW-02 (mg/L)



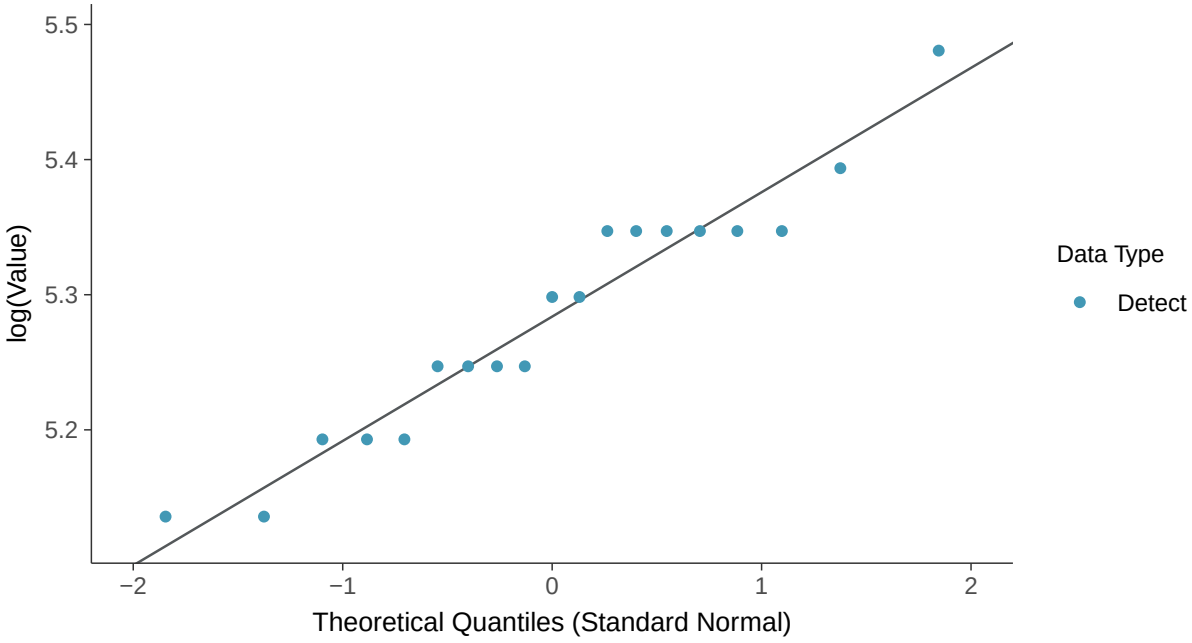
Normal Q-Q plot

Calcium, MW-02 (mg/L)



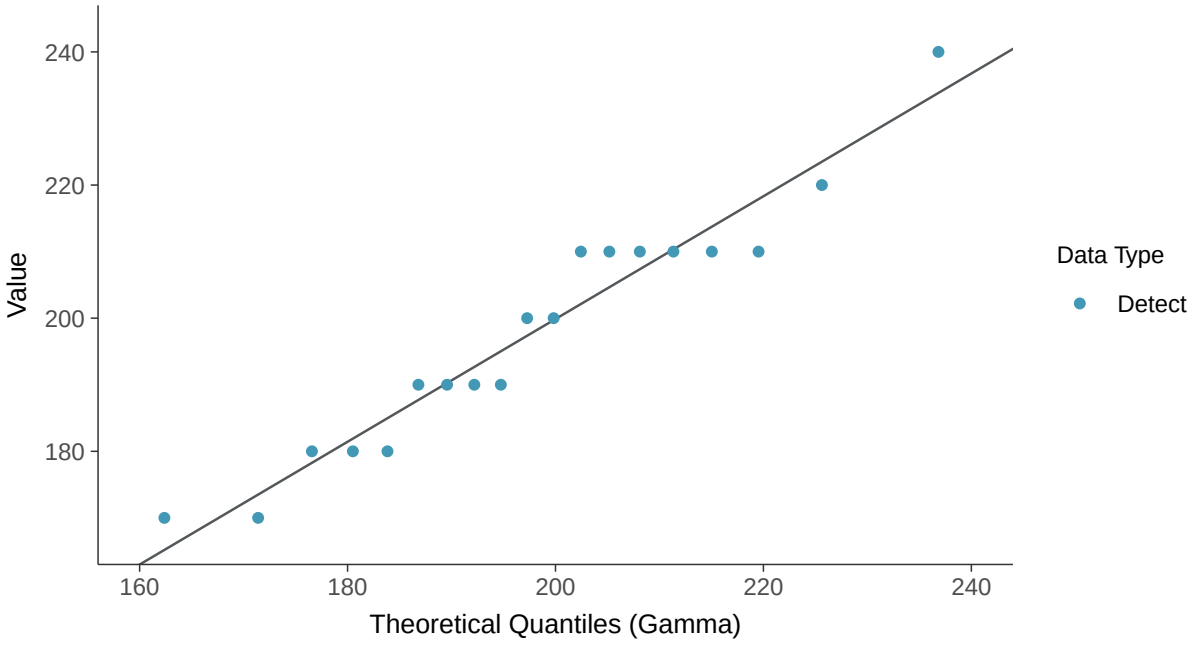
Lognormal Q-Q plot

Calcium, MW-02 (mg/L)



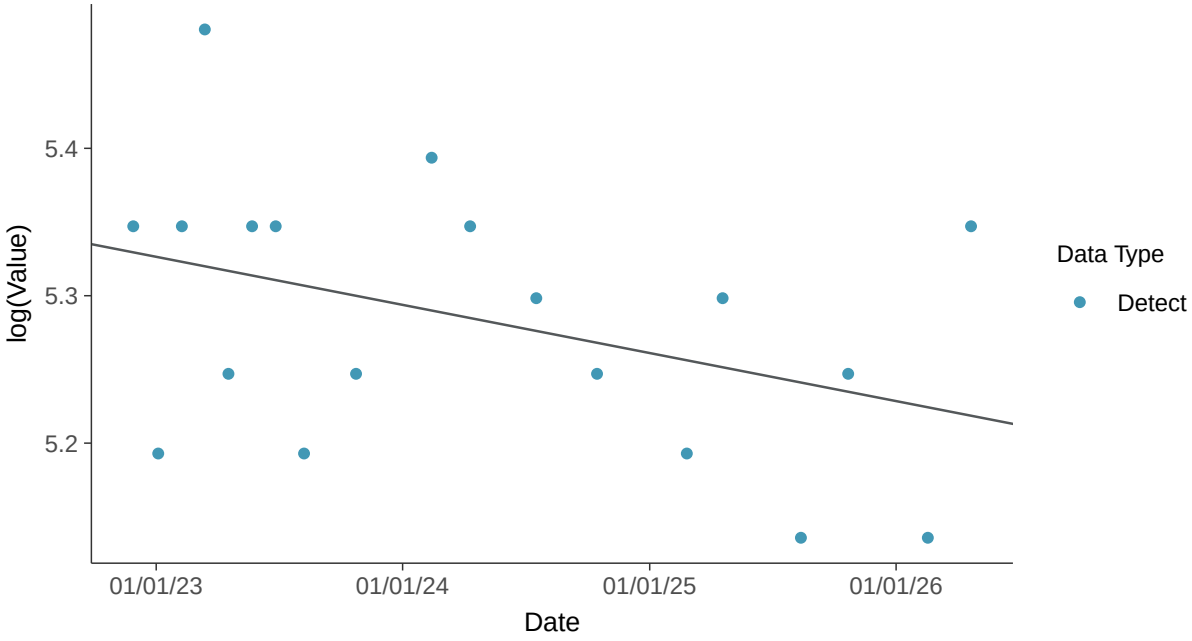
Gamma Q-Q plot

Calcium, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-02 (mg/L)

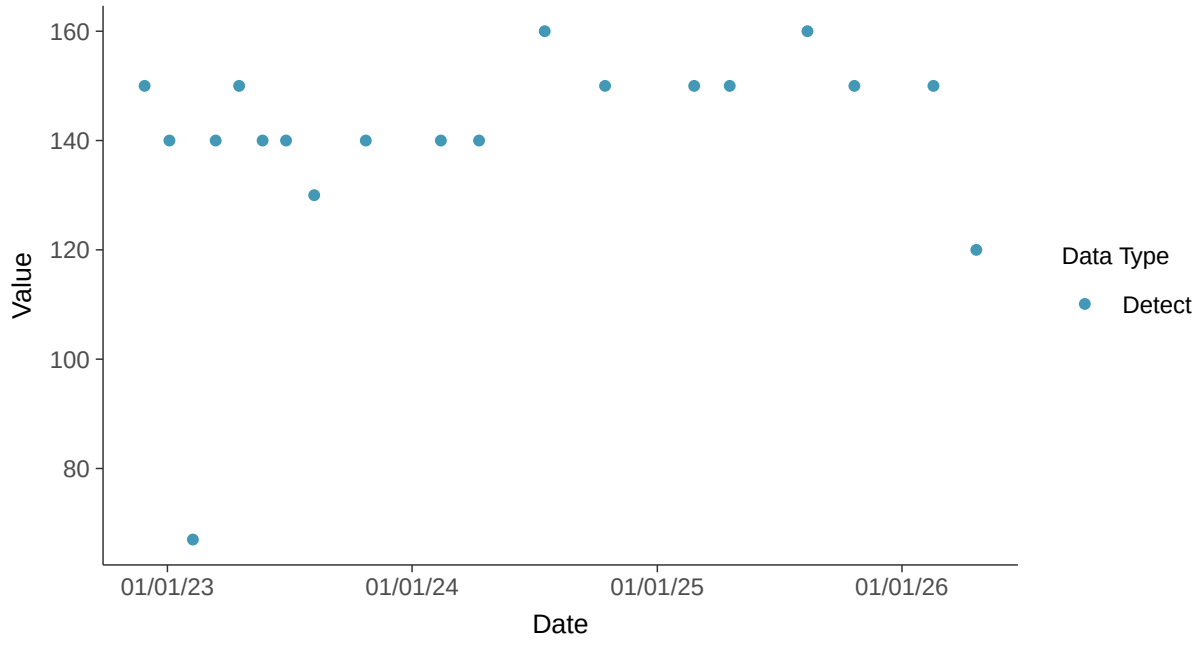


Appendix III: Chloride (as Cl), MW-02

ID: 12_2_3_108

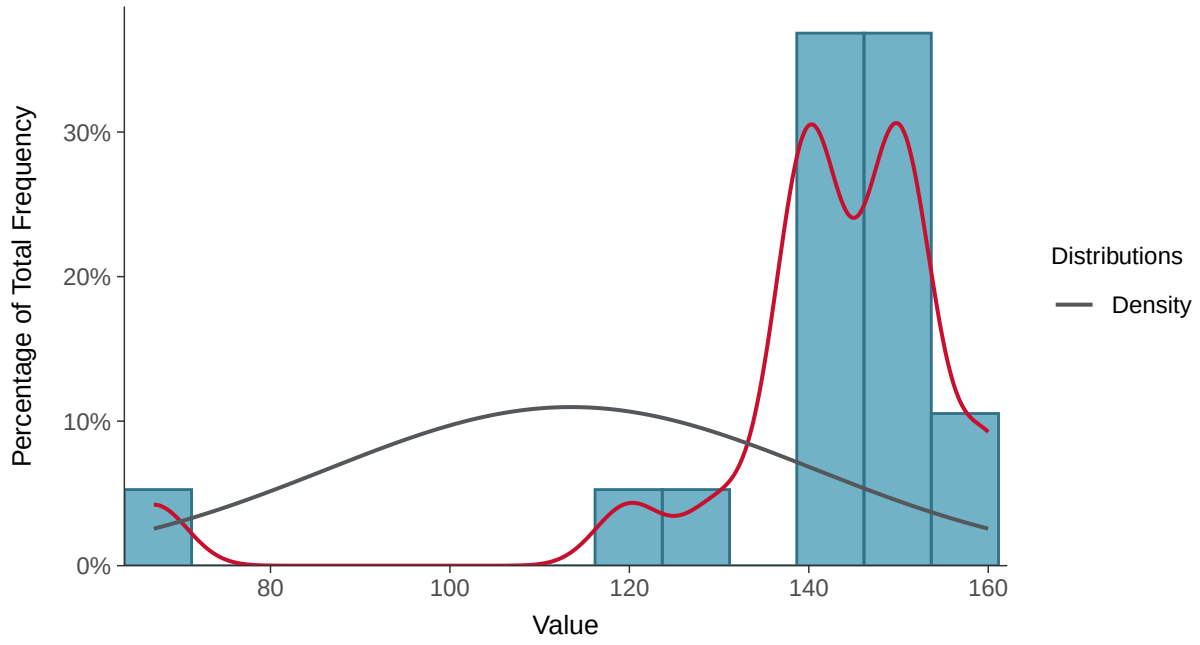
Scatter Plot

Chloride (as Cl), MW-02 (mg/L)



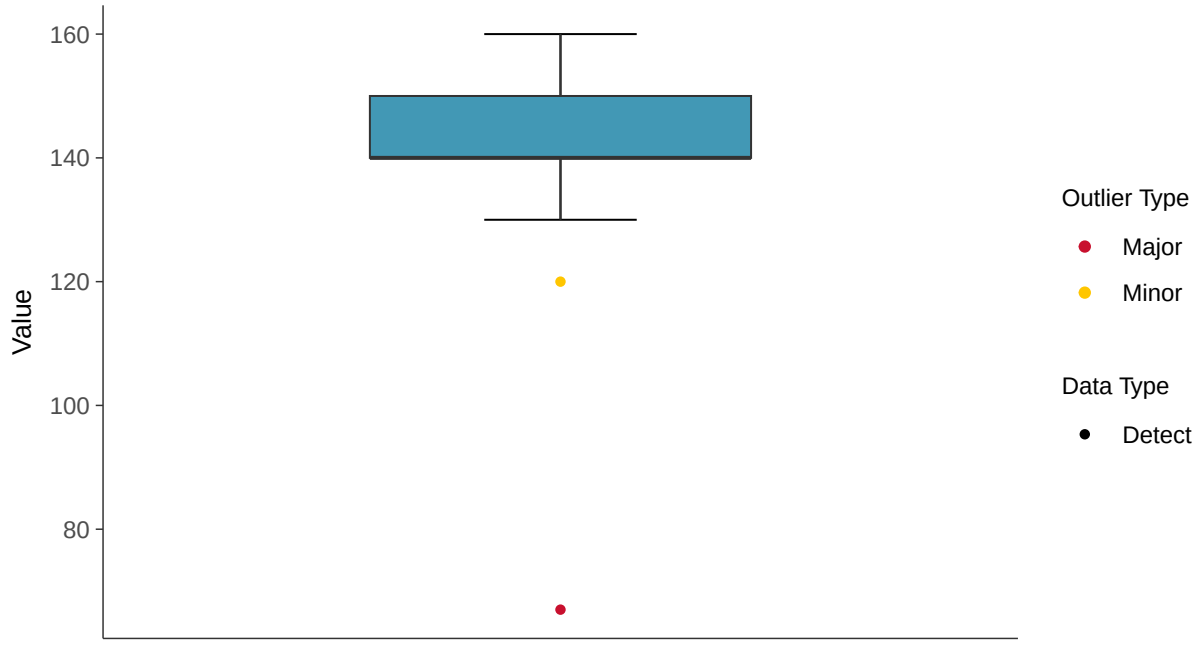
Histogram

Chloride (as Cl), MW-02 (mg/L)



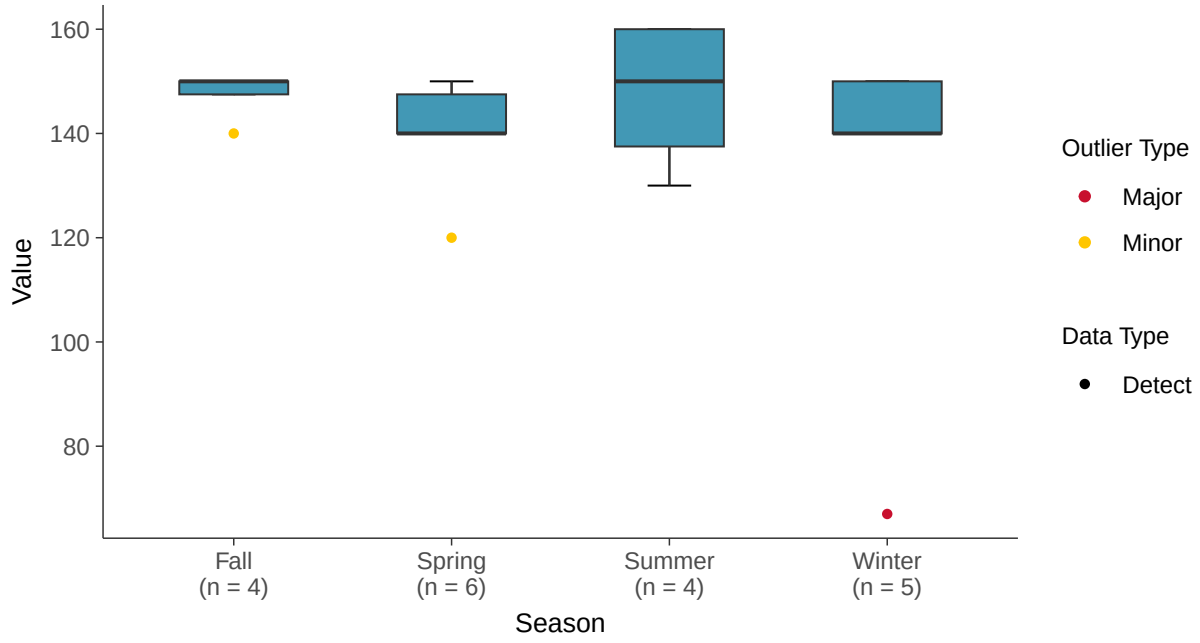
Boxplot

Chloride (as Cl), MW-02 (mg/L)



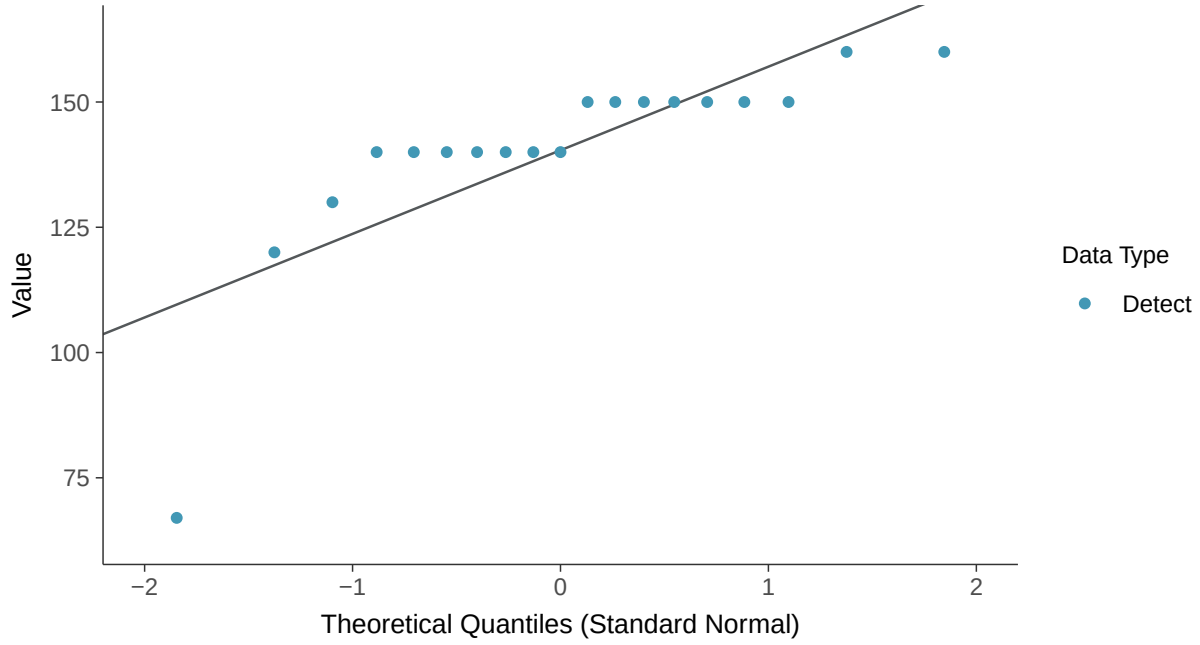
Boxplot by Season

Chloride (as Cl), MW-02 (mg/L)



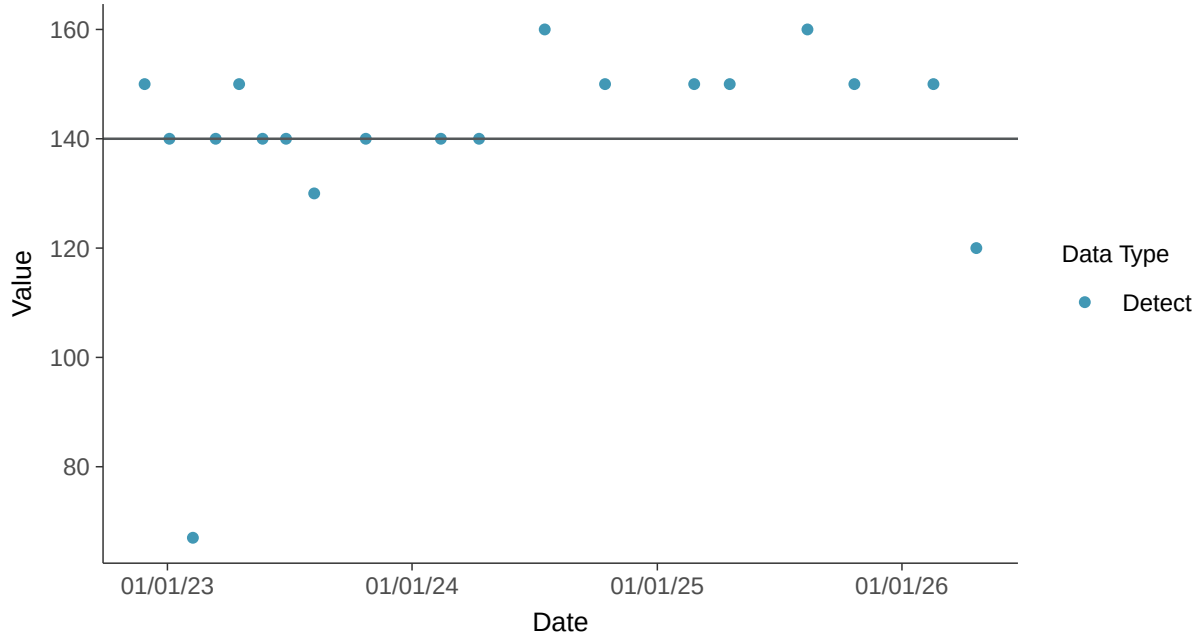
Normal Q-Q plot

Chloride (as Cl), MW-02 (mg/L)



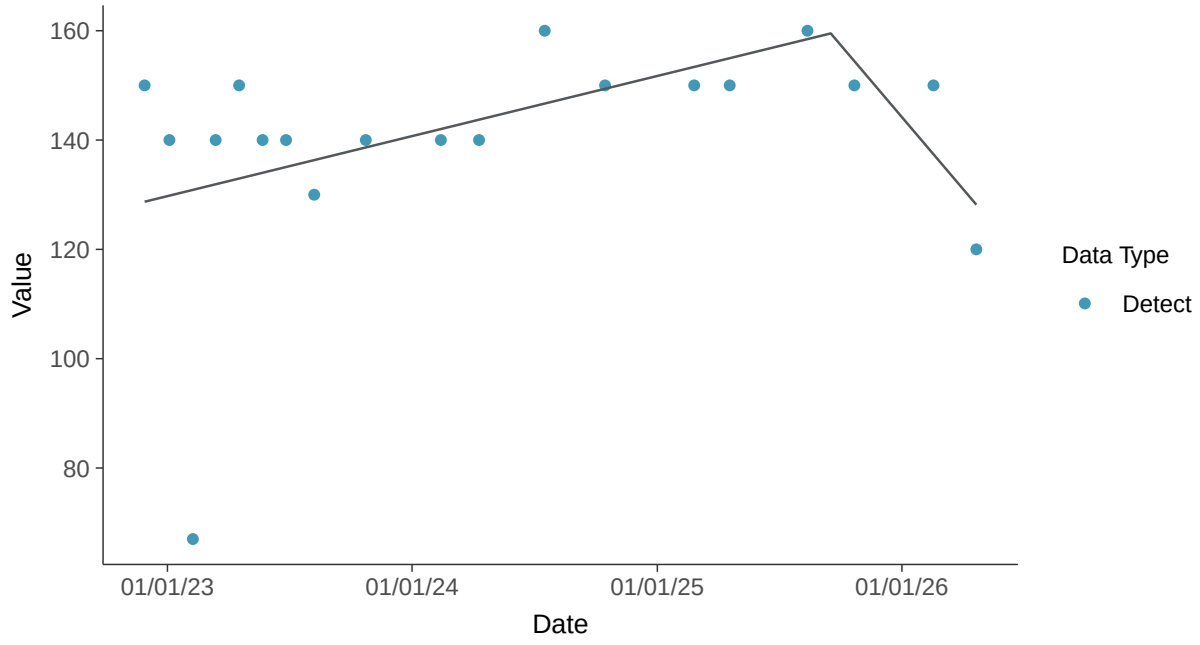
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-02 (mg/L)



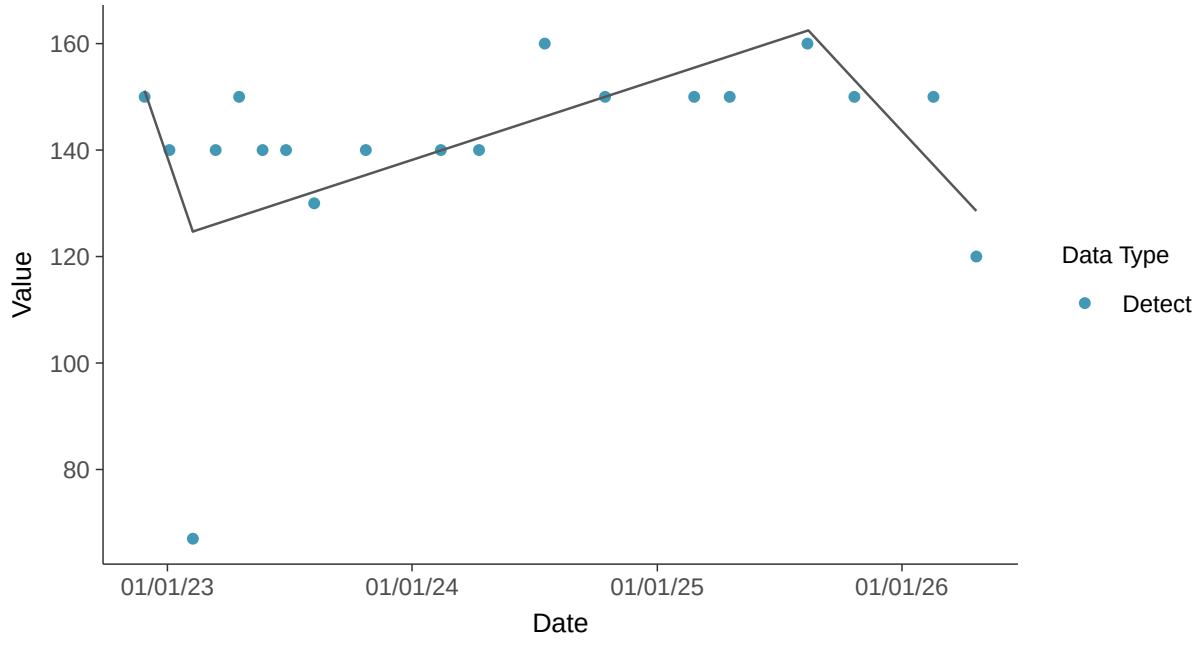
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-02 (mg/L)



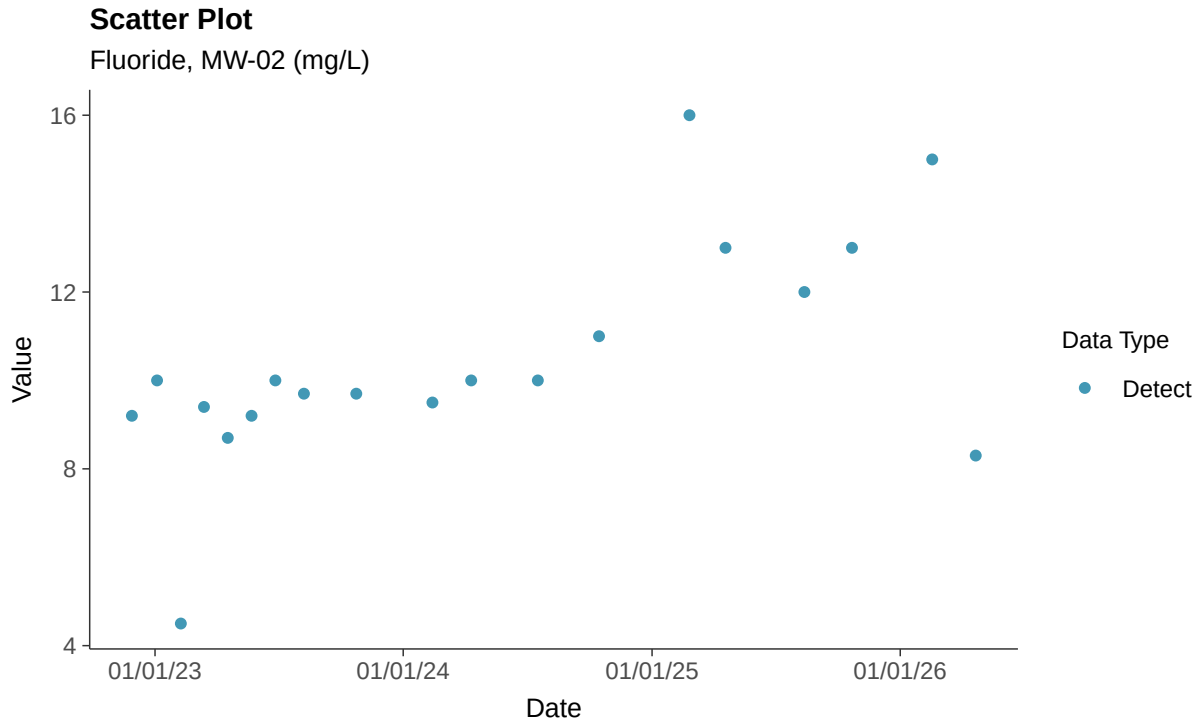
Trend Regression: Piecewise Linear-Linear-Linear

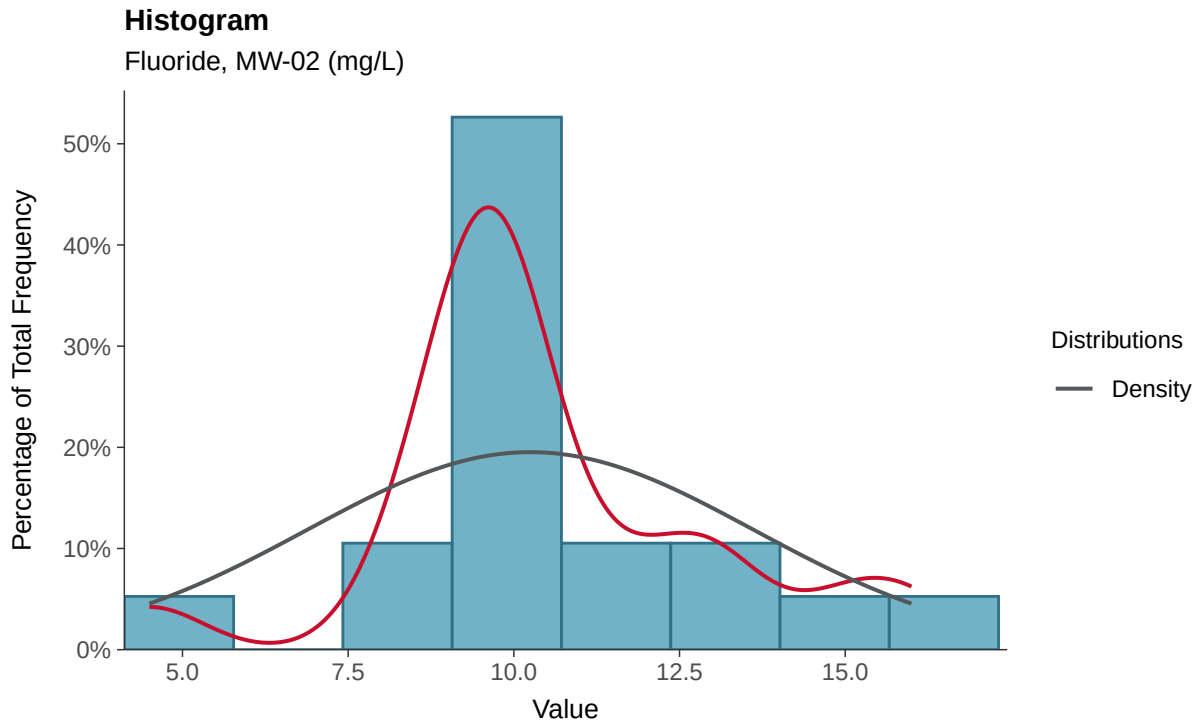
Chloride (as Cl), MW-02 (mg/L)



Appendix III: Fluoride, MW-02

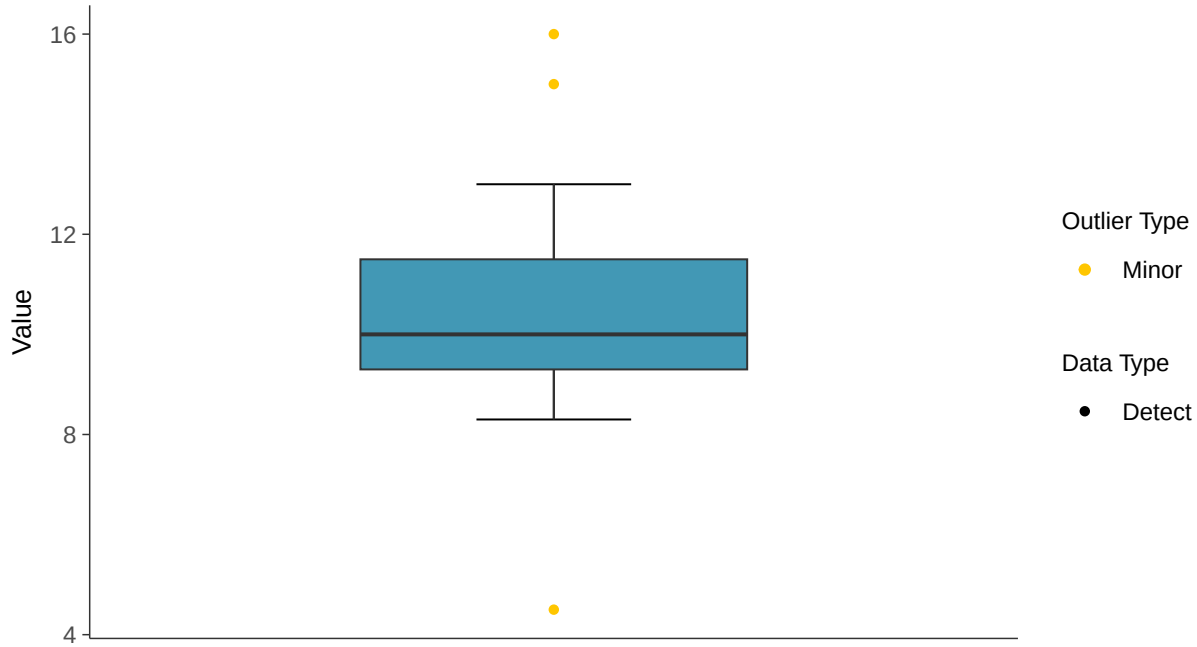
ID: 12_2_3_112





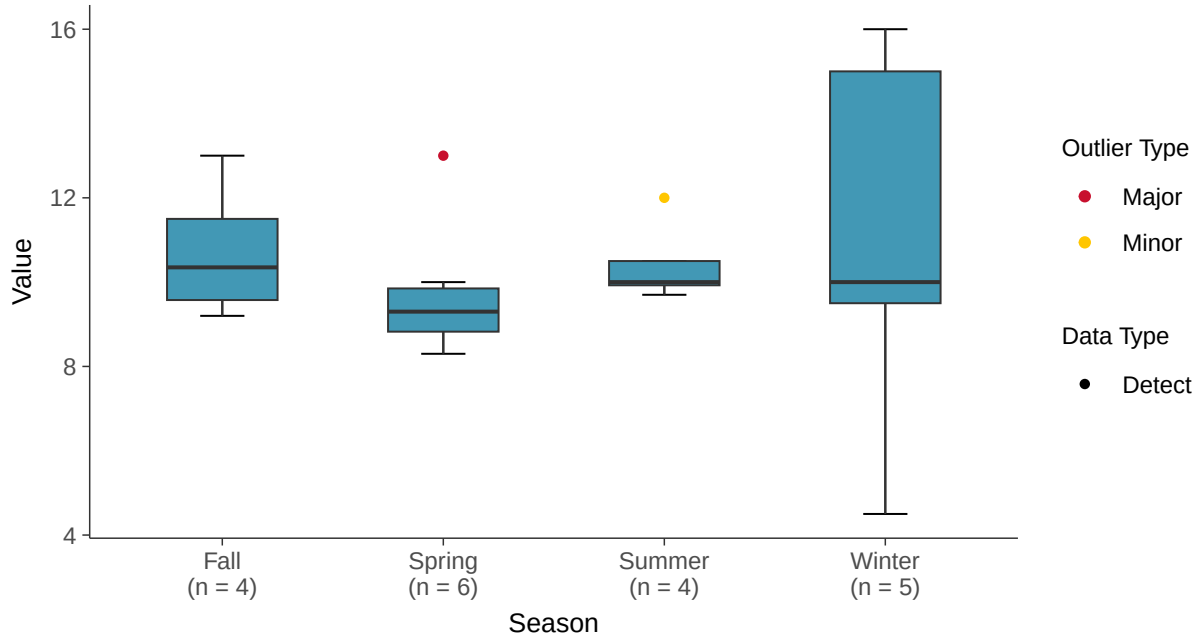
Boxplot

Fluoride, MW-02 (mg/L)



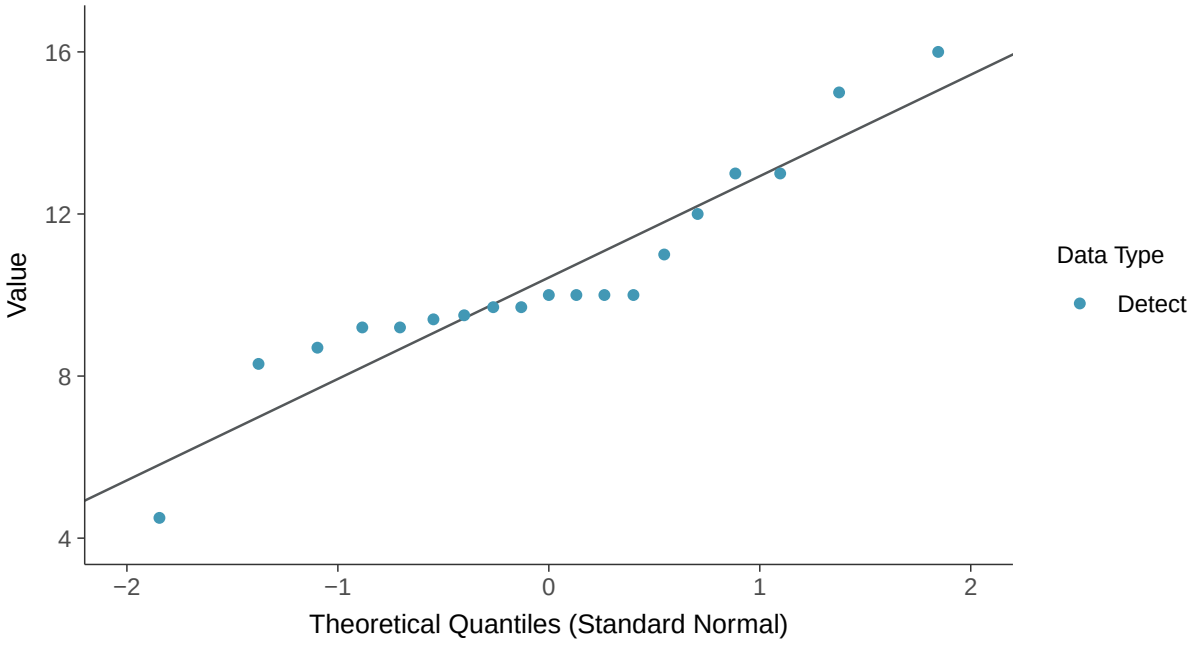
Boxplot by Season

Fluoride, MW-02 (mg/L)



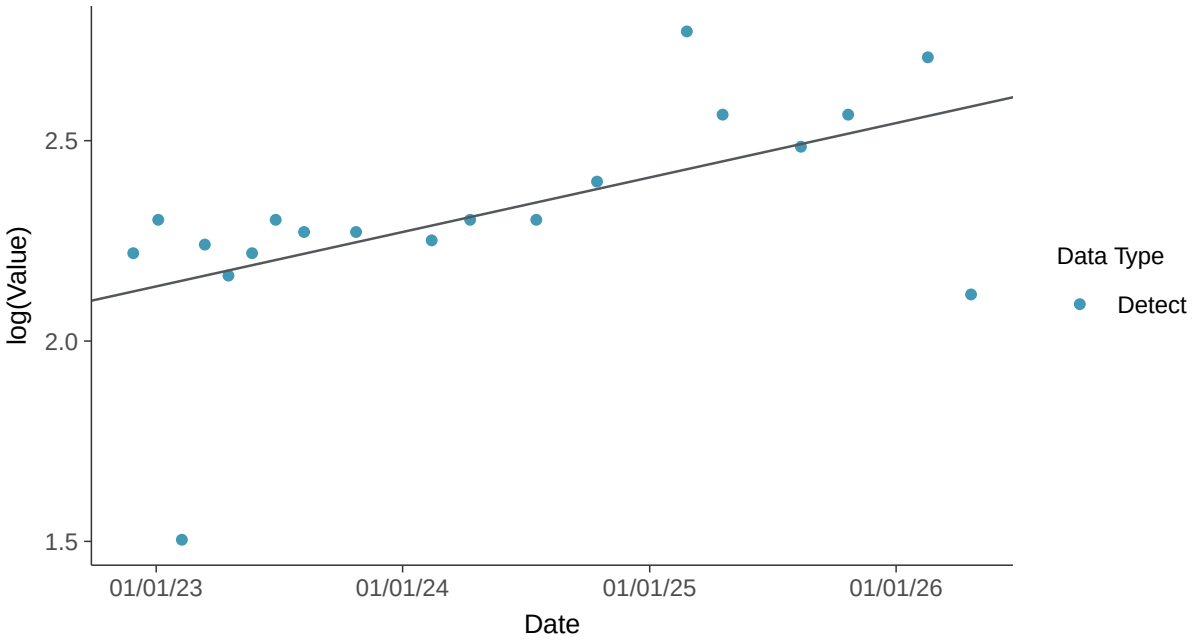
Normal Q-Q plot

Fluoride, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Fluoride, MW-02 (mg/L)

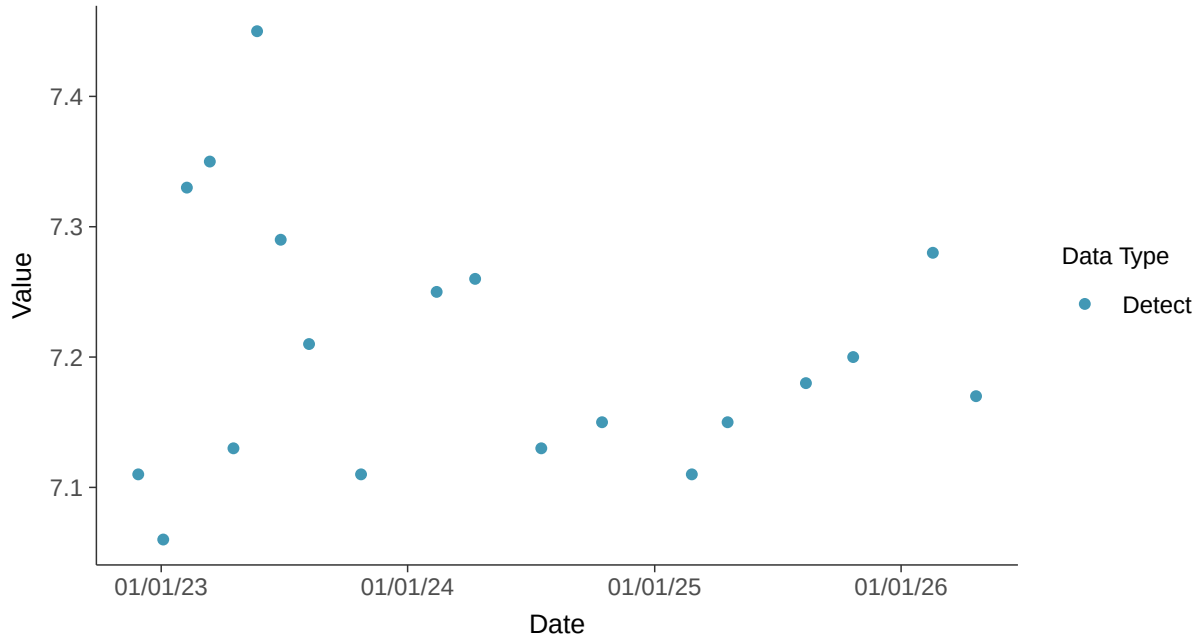


Appendix III: pH (field), MW-02

ID: 12_2_3_120

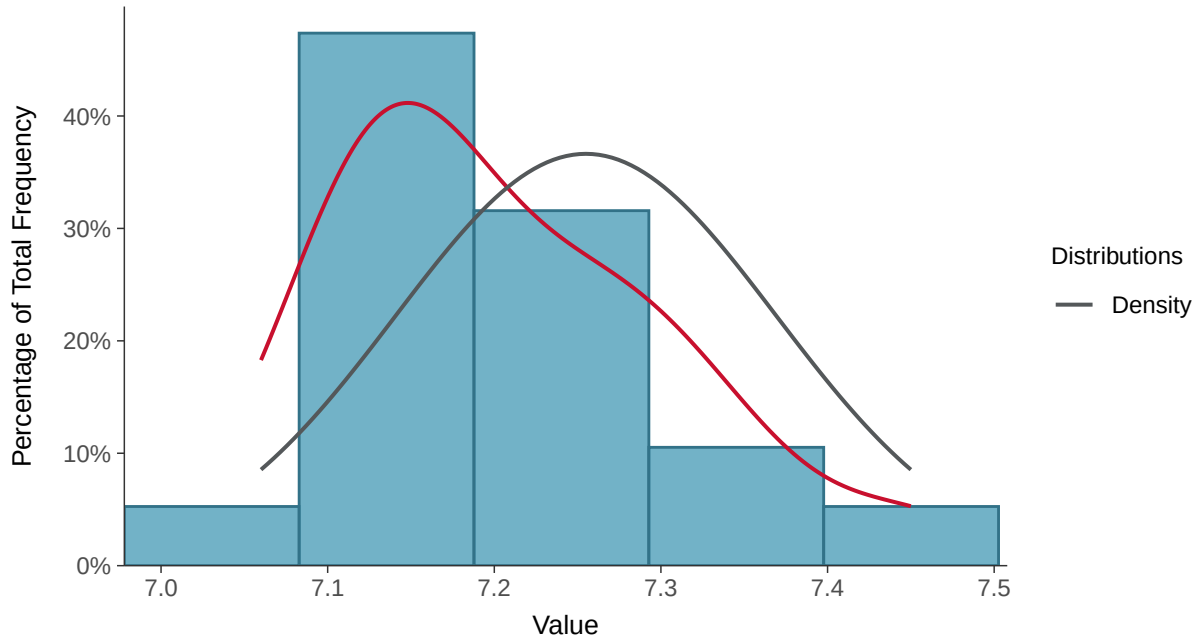
Scatter Plot

pH (field), MW-02 (su)



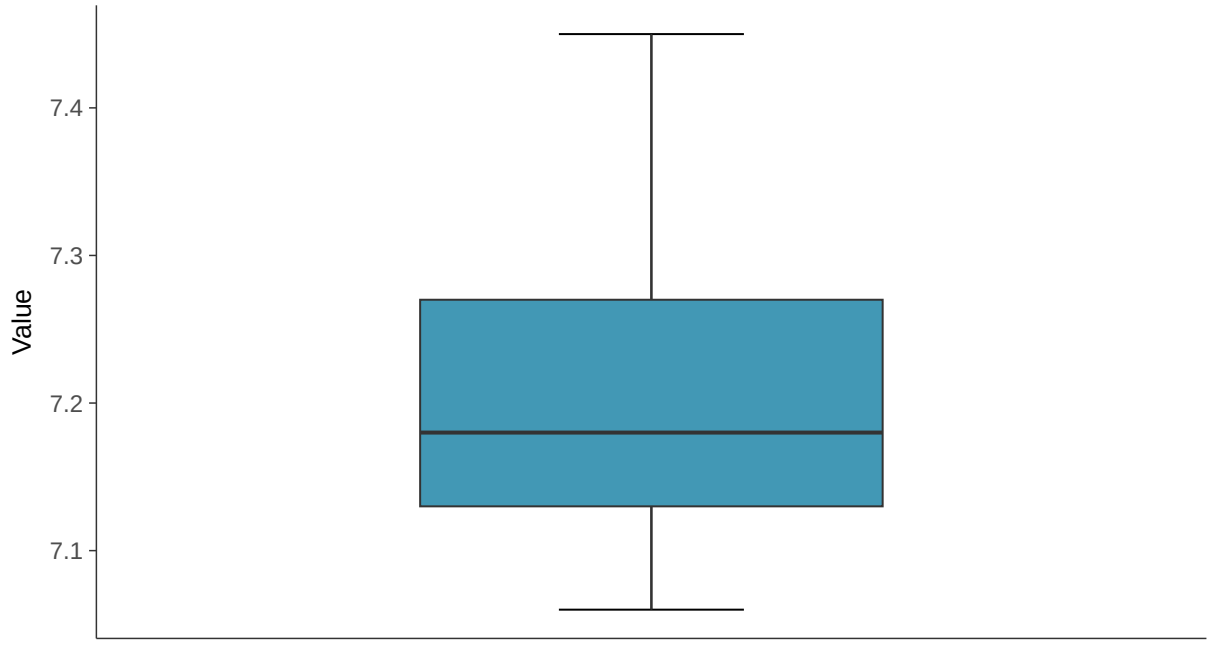
Histogram

pH (field), MW-02 (su)



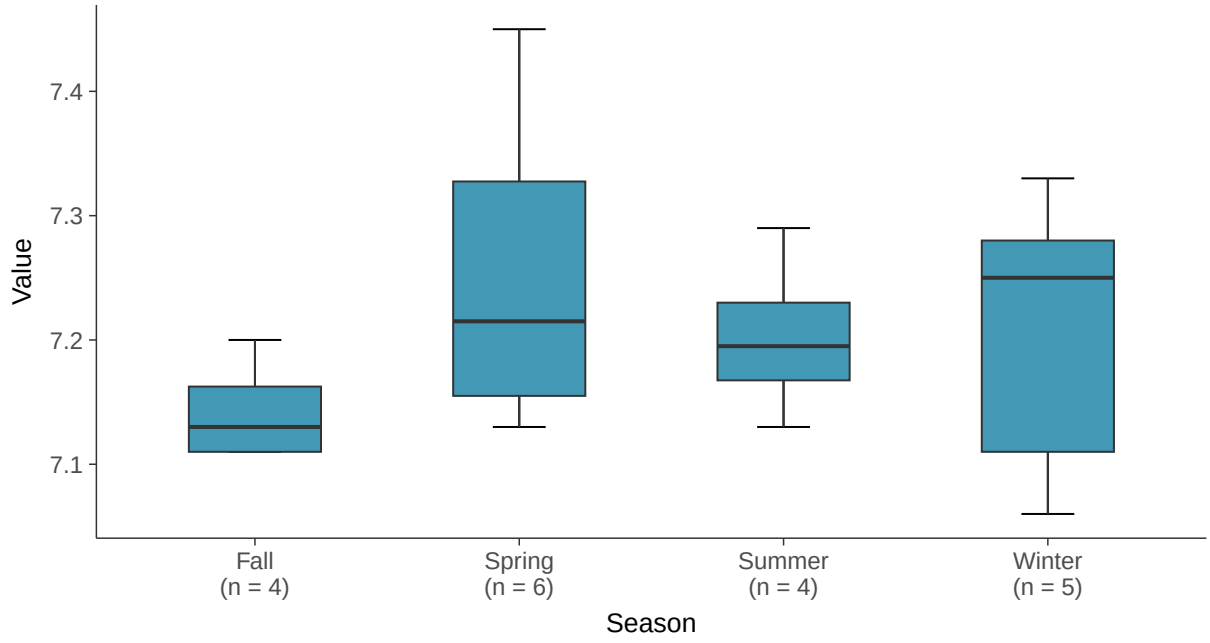
Boxplot

pH (field), MW-02 (su)



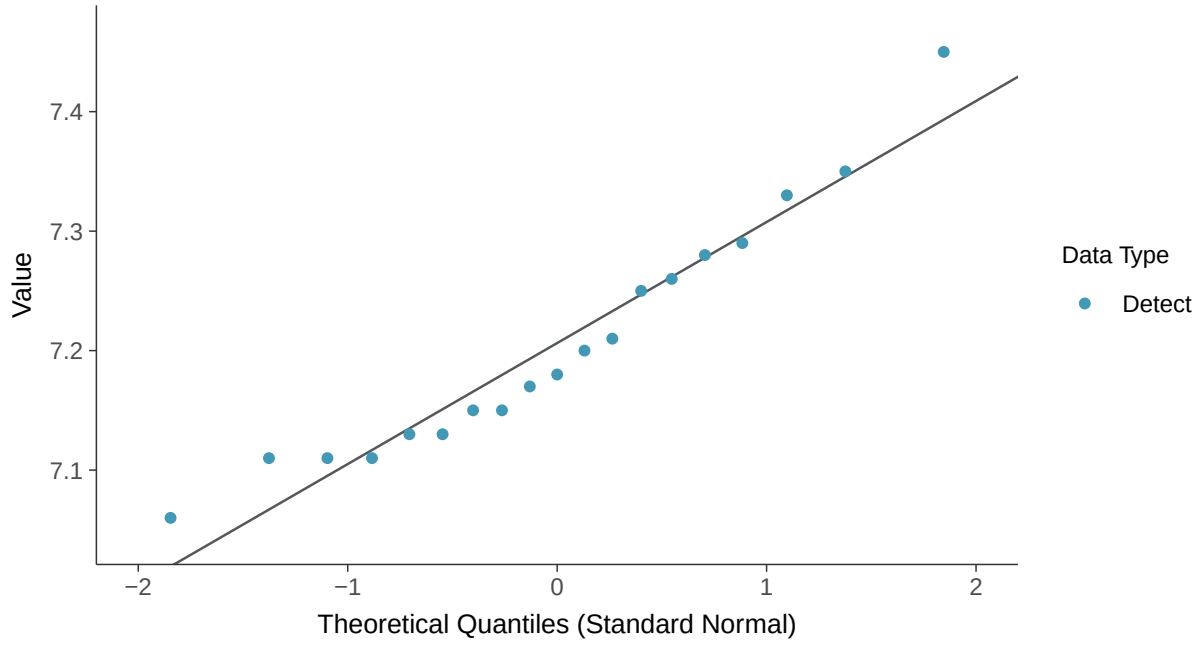
Boxplot by Season

pH (field), MW-02 (su)



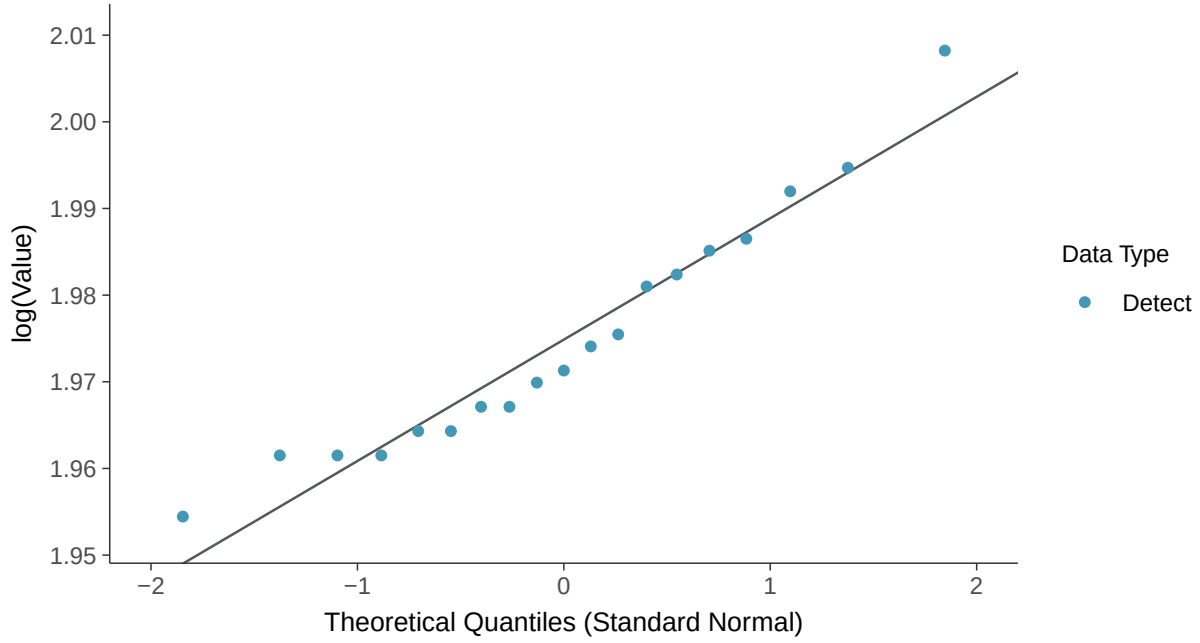
Normal Q-Q plot

pH (field), MW-02 (su)



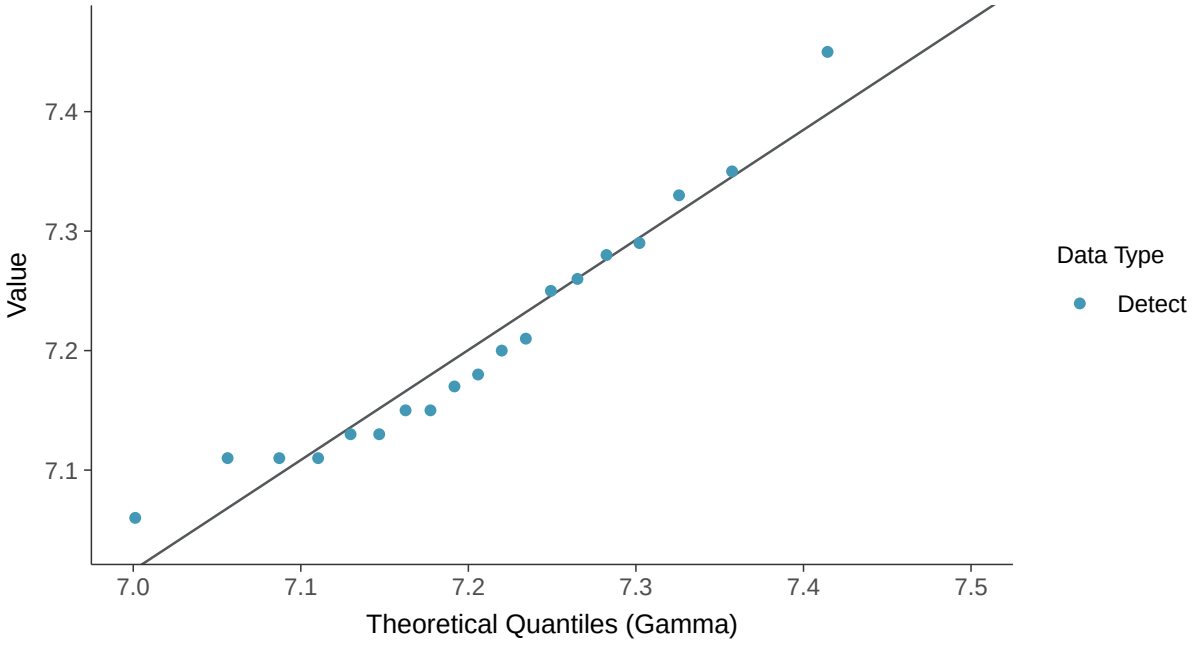
Lognormal Q-Q plot

pH (field), MW-02 (su)



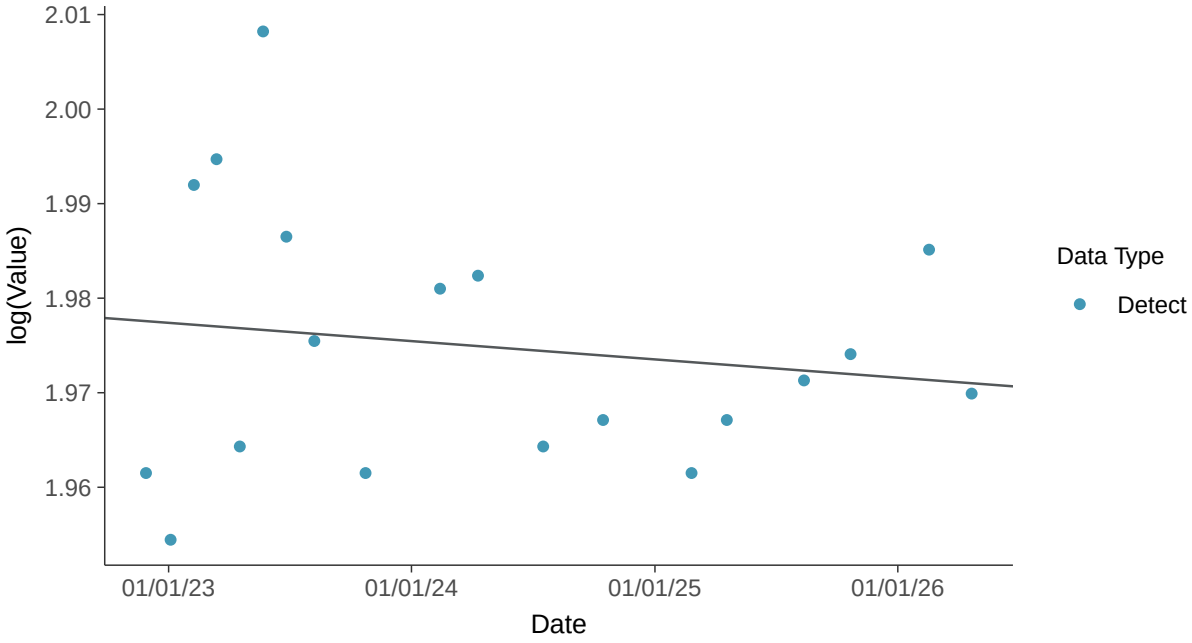
Gamma Q-Q plot

pH (field), MW-02 (su)



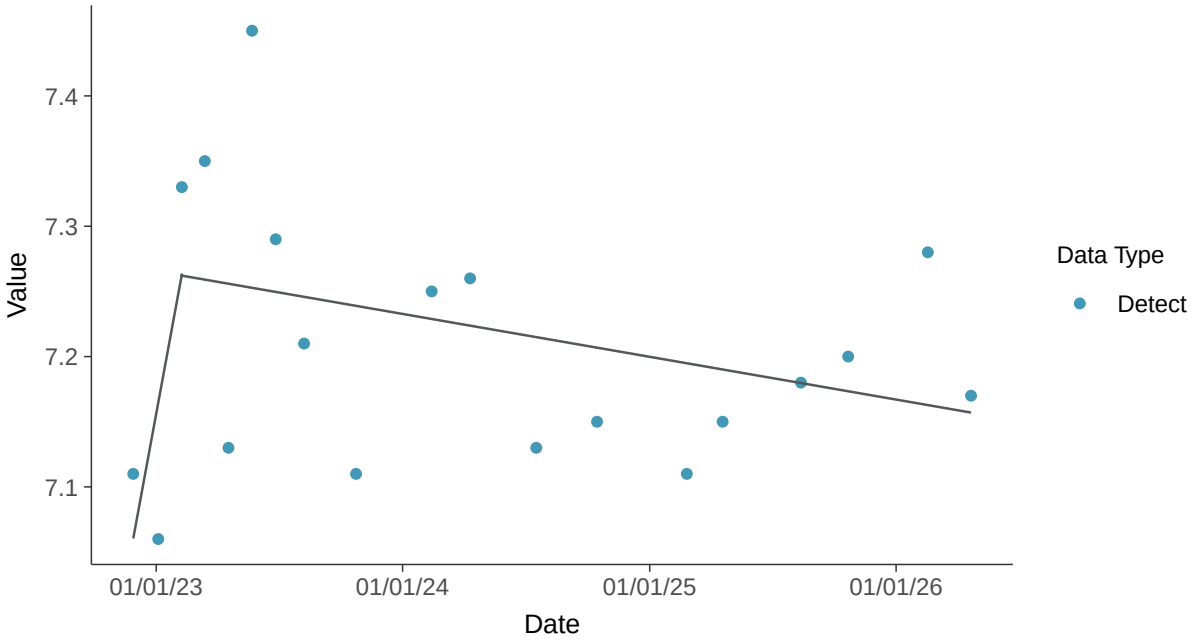
Trend Regression: Lognormal MLE

pH (field), MW-02 (su)



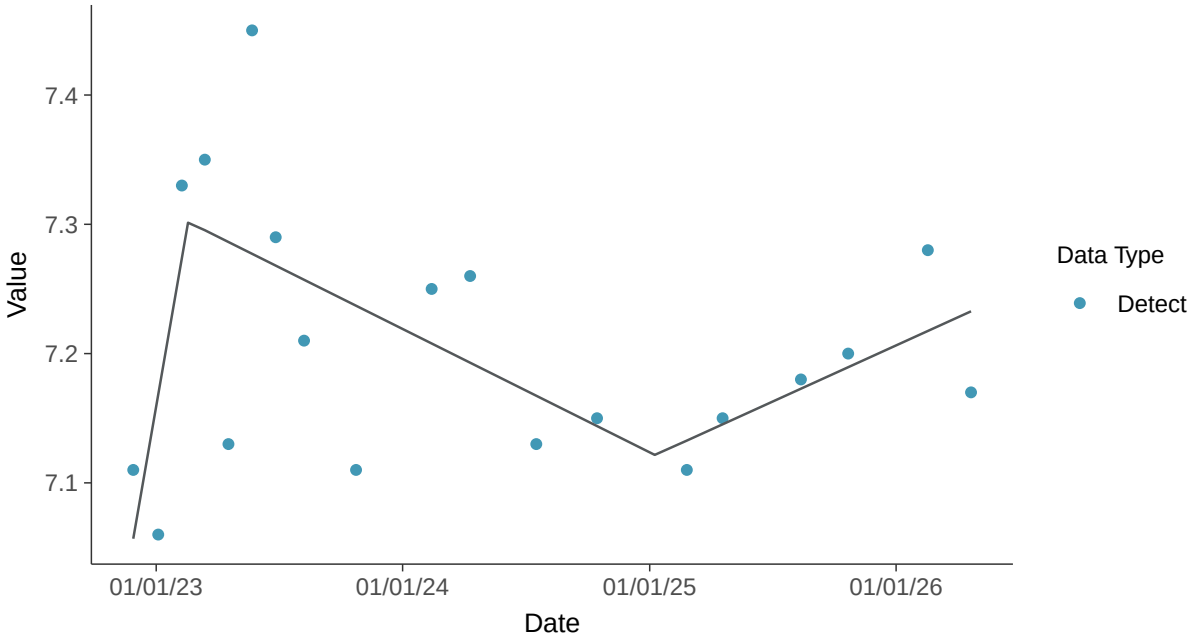
Trend Regression: Piecewise Linear-Linear

pH (field), MW-02 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-02 (su)

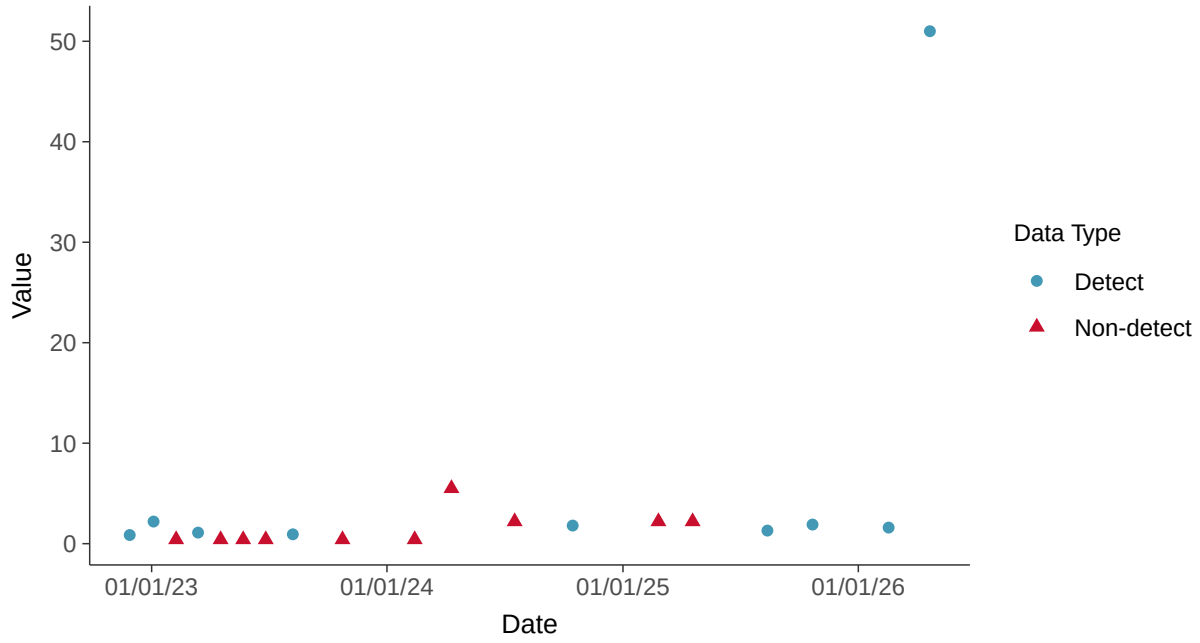


Appendix III: Sulfate (as SO4), MW-02

ID: 12_2_3_124

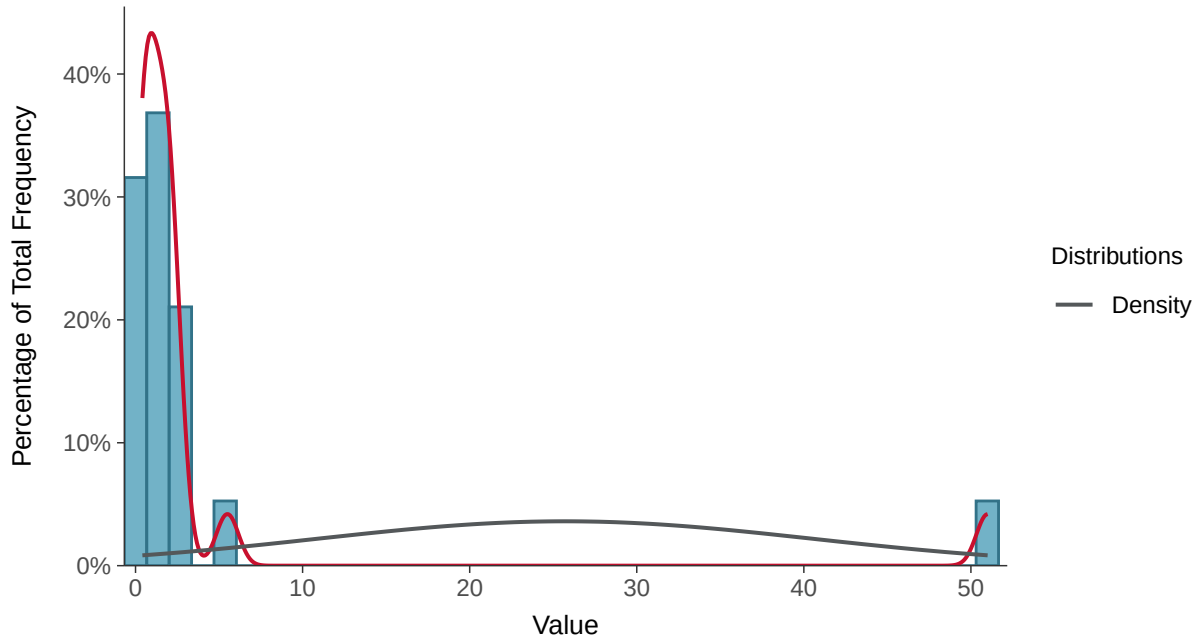
Scatter Plot

Sulfate (as SO4), MW-02 (mg/L)



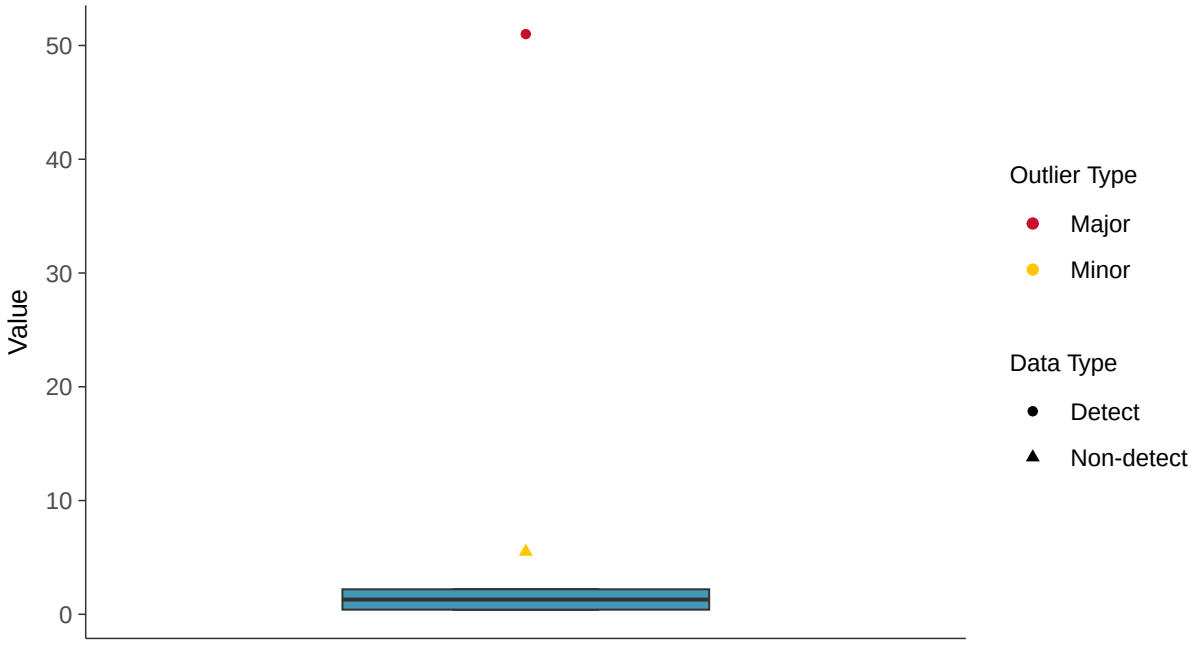
Histogram

Sulfate (as SO4), MW-02 (mg/L)



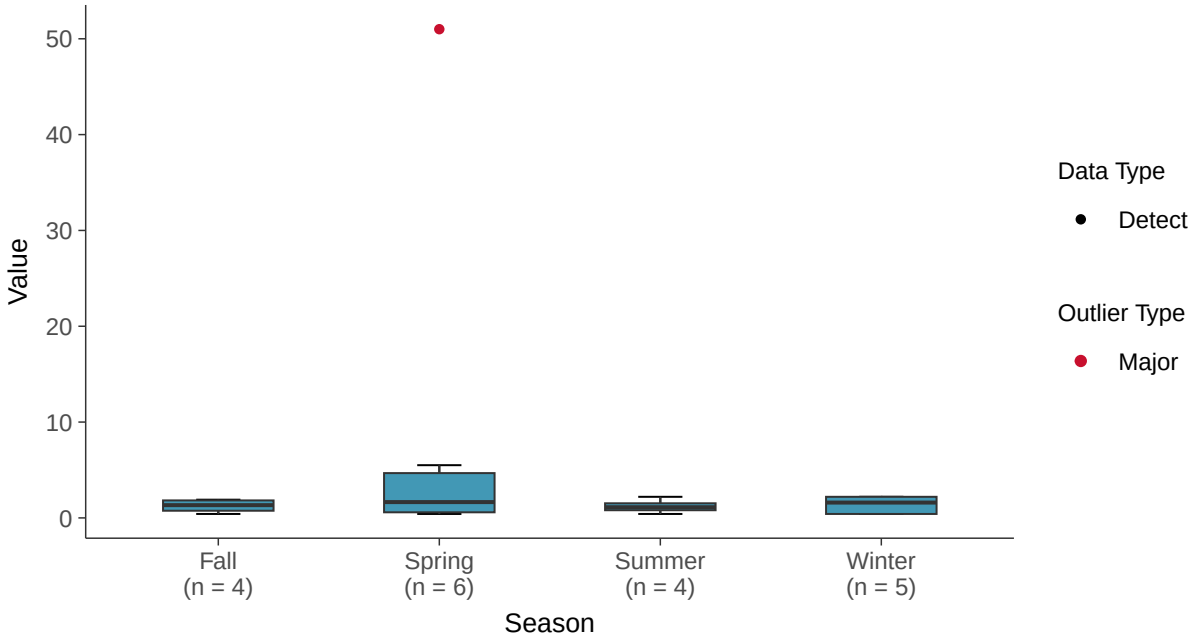
Boxplot

Sulfate (as SO4), MW-02 (mg/L)



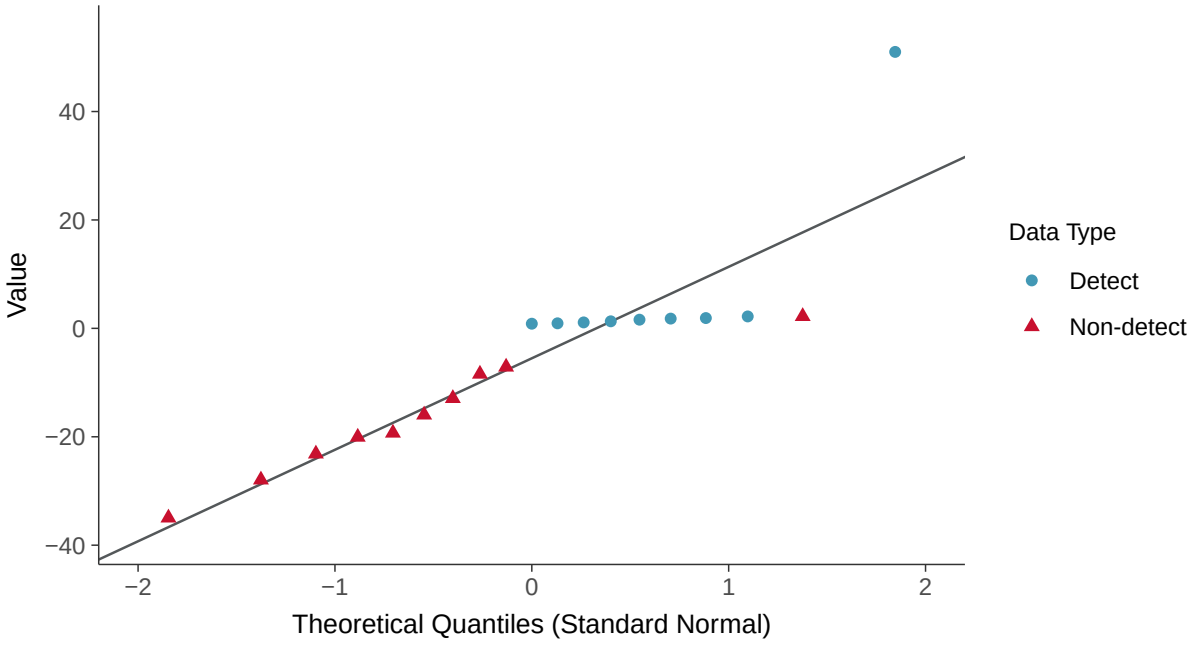
Boxplot by Season

Sulfate (as SO4), MW-02 (mg/L)



Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-02 (mg/L)

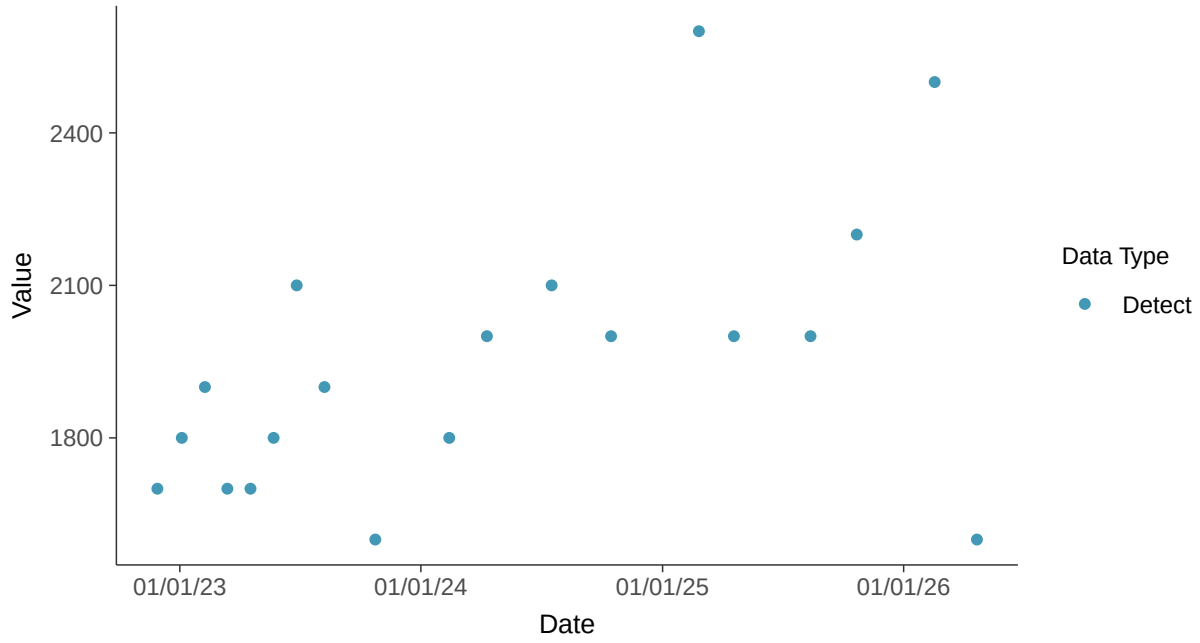


Appendix III: Total Dissolved Solids, MW-02

ID: 12_2_3_126

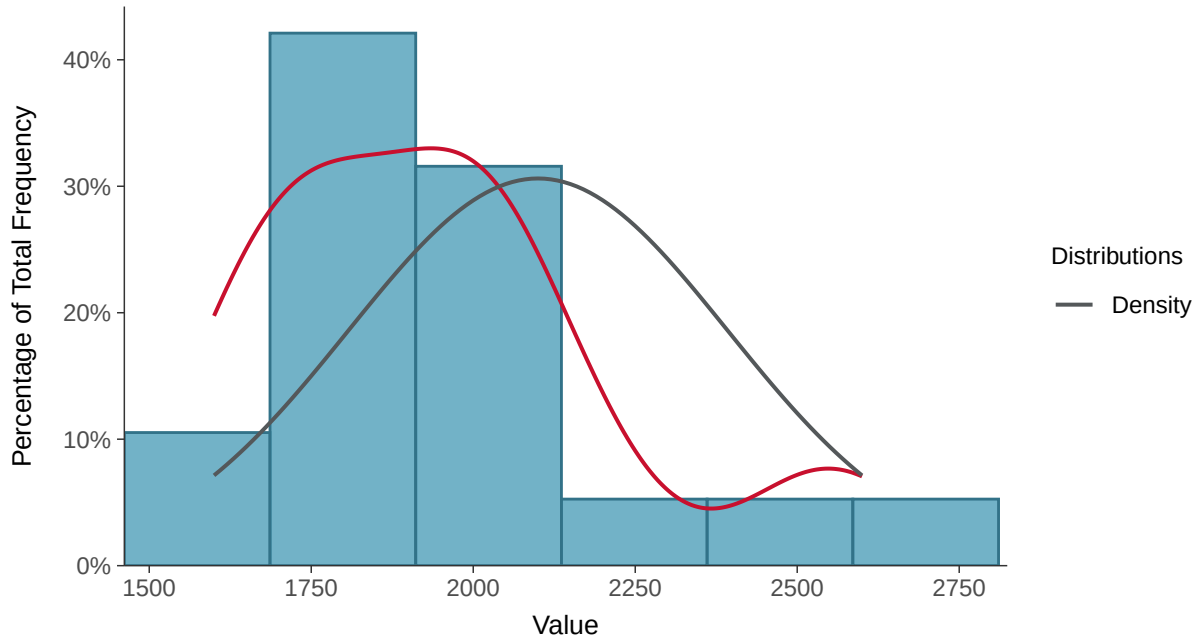
Scatter Plot

Total Dissolved Solids, MW-02 (mg/L)



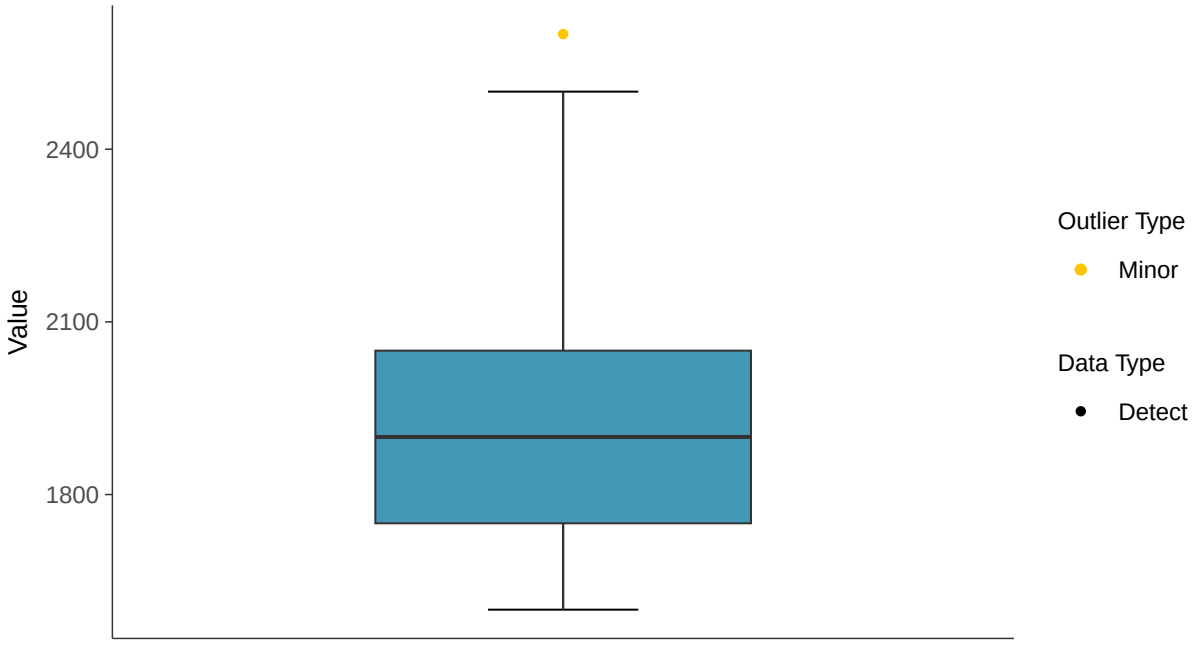
Histogram

Total Dissolved Solids, MW-02 (mg/L)



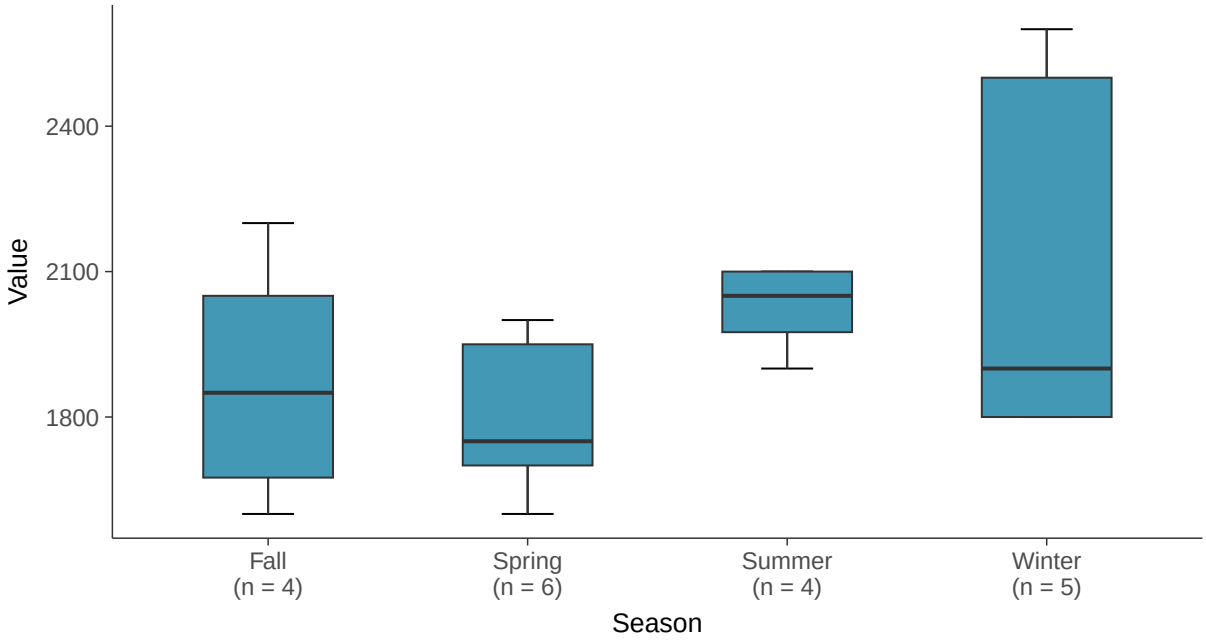
Boxplot

Total Dissolved Solids, MW-02 (mg/L)



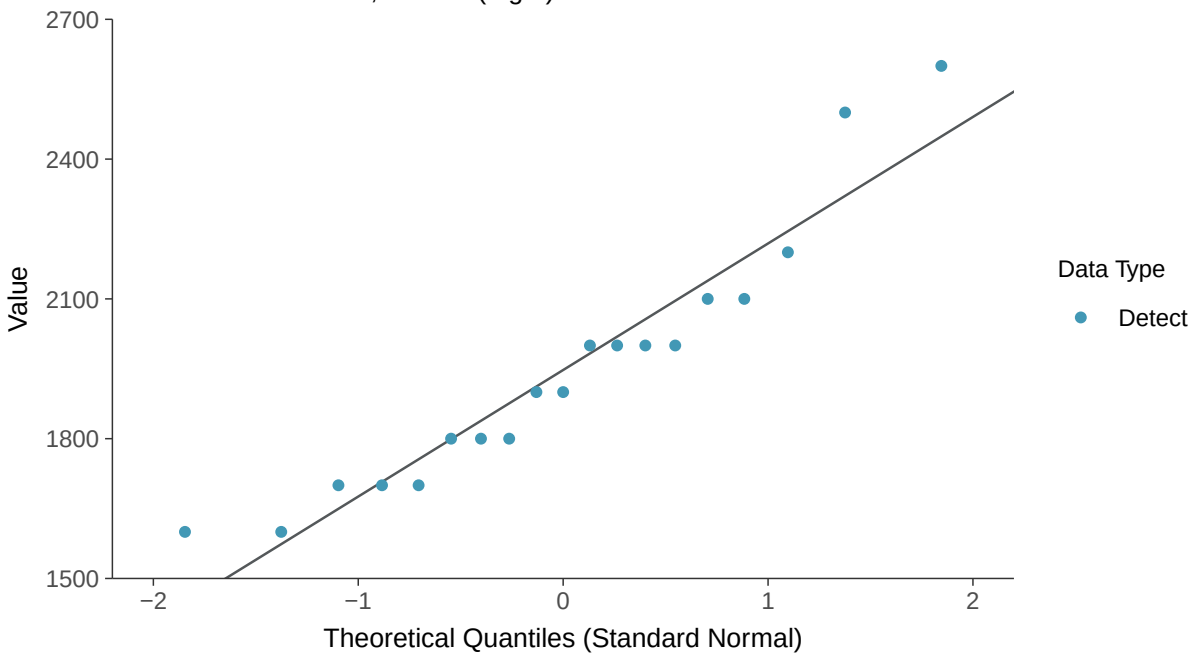
Boxplot by Season

Total Dissolved Solids, MW-02 (mg/L)



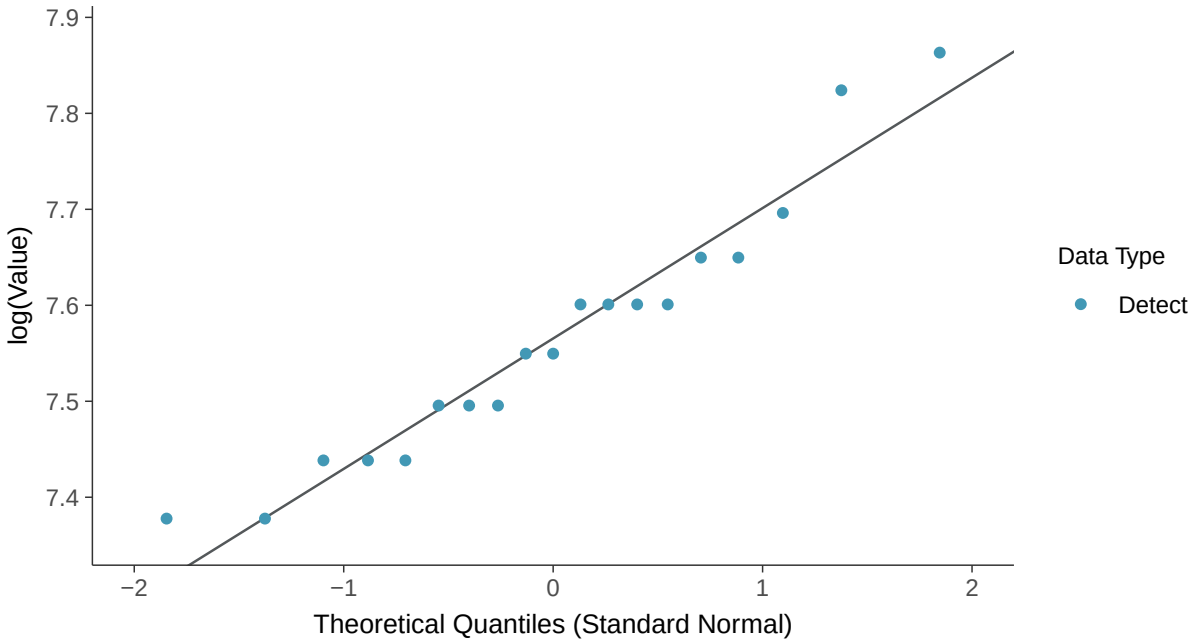
Normal Q-Q plot

Total Dissolved Solids, MW-02 (mg/L)



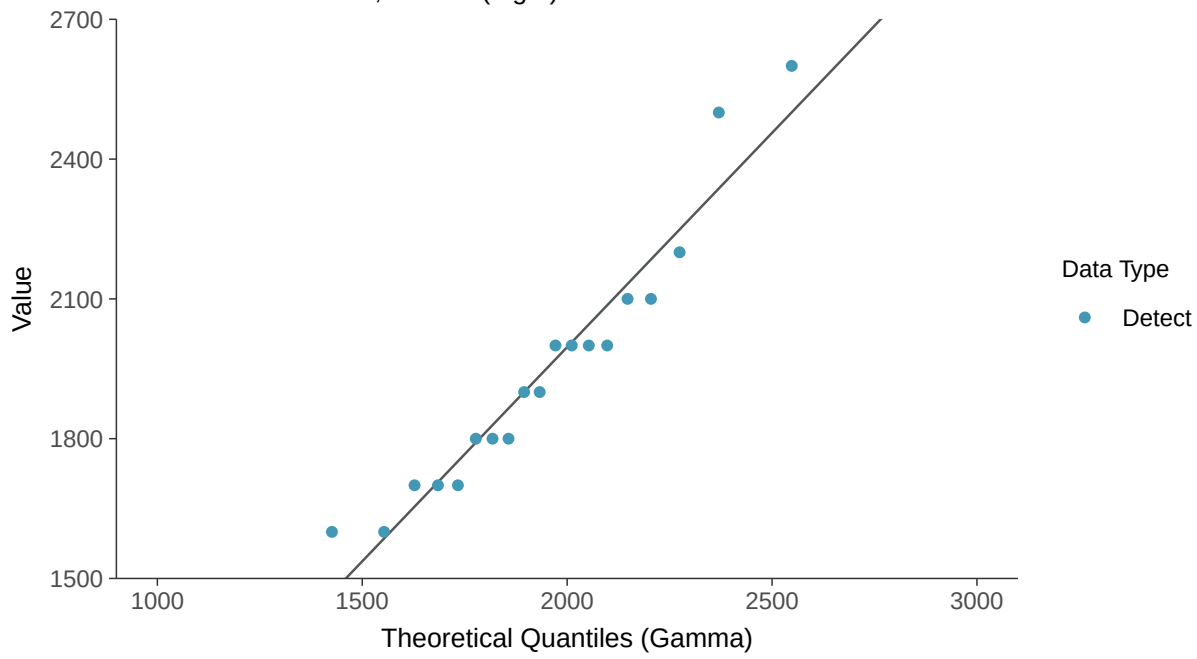
Lognormal Q-Q plot

Total Dissolved Solids, MW-02 (mg/L)



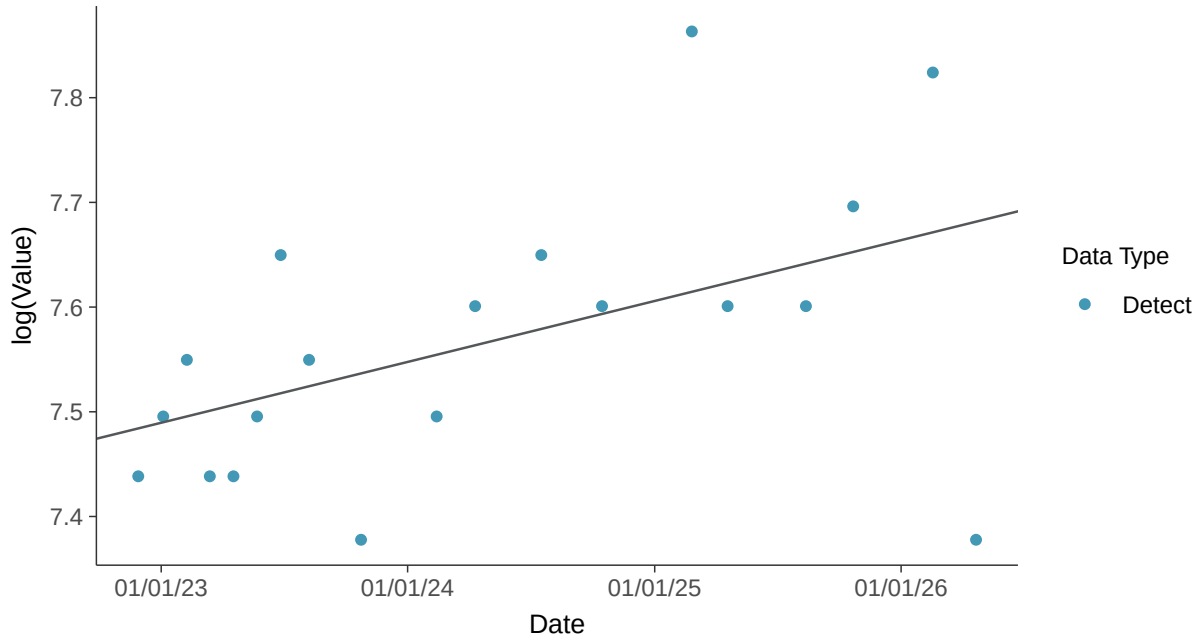
Gamma Q-Q plot

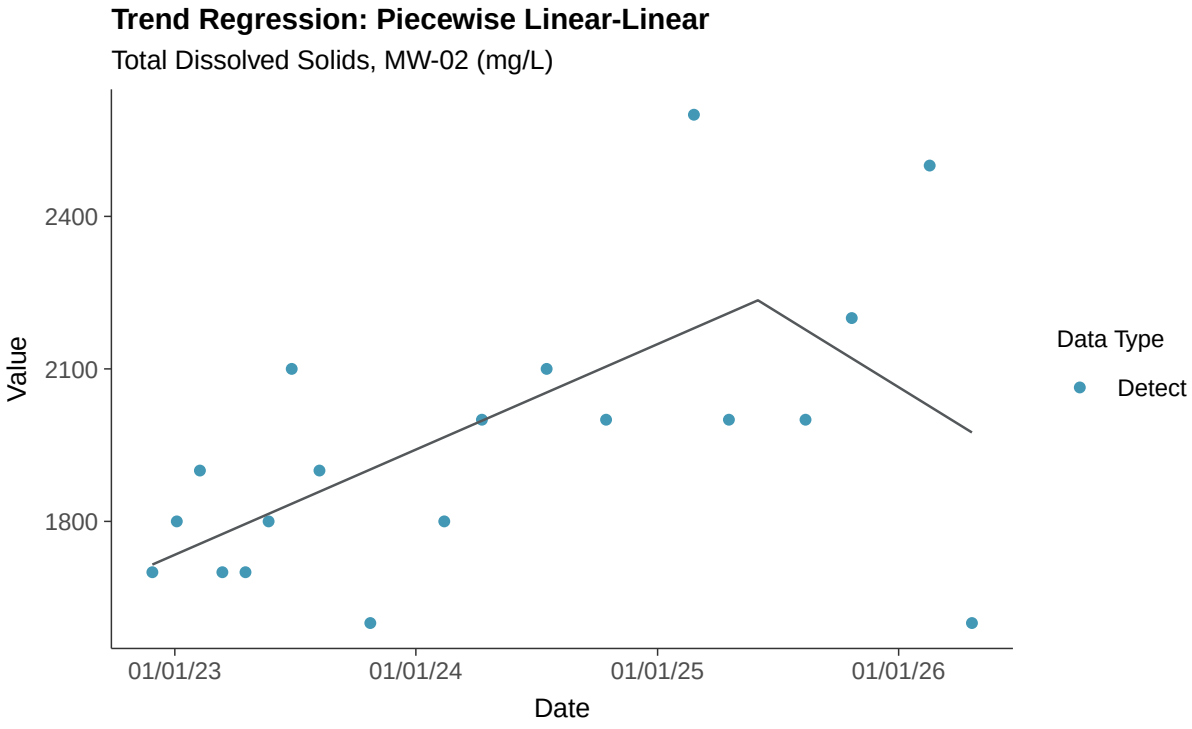
Total Dissolved Solids, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-02 (mg/L)



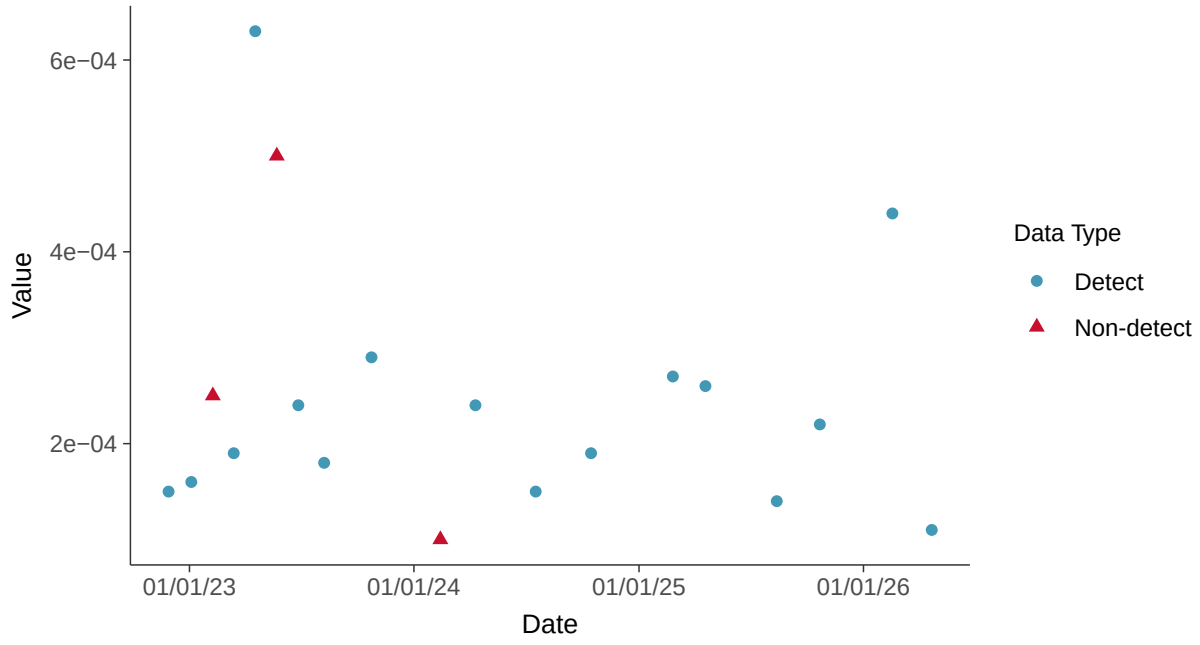

Trend Regression: Piecewise Linear-Linear
Total Dissolved Solids, MW-02 (mg/L)
Value
2400
2100
1800
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Antimony, MW-02

ID: 12_2_4_101

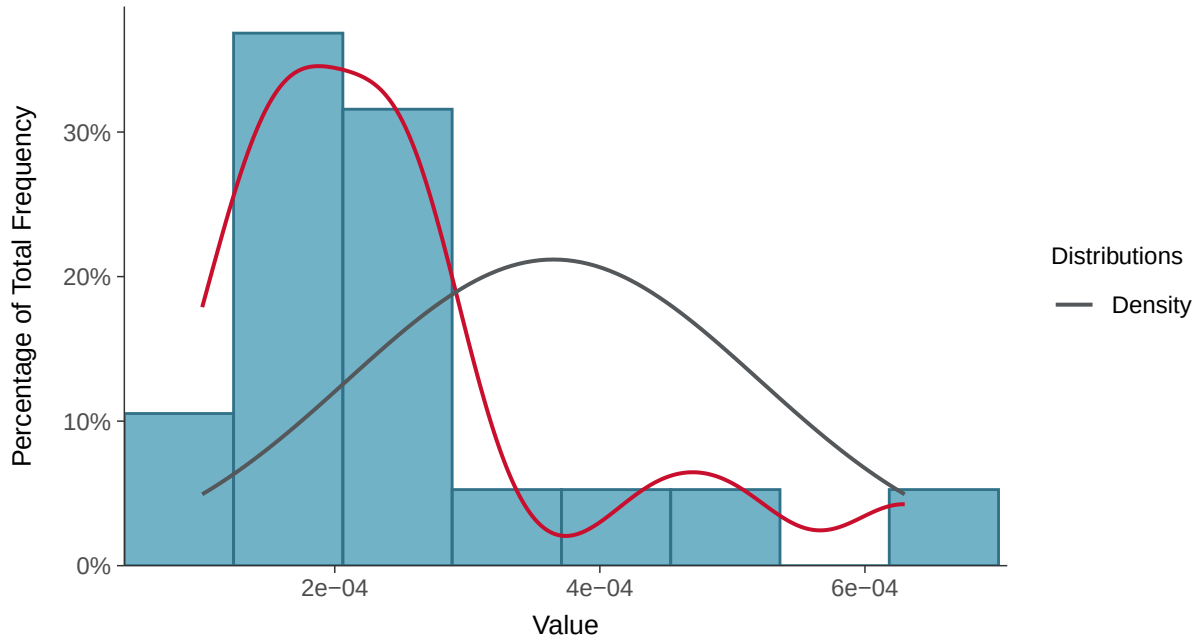
Scatter Plot

Antimony, MW-02 (mg/L)



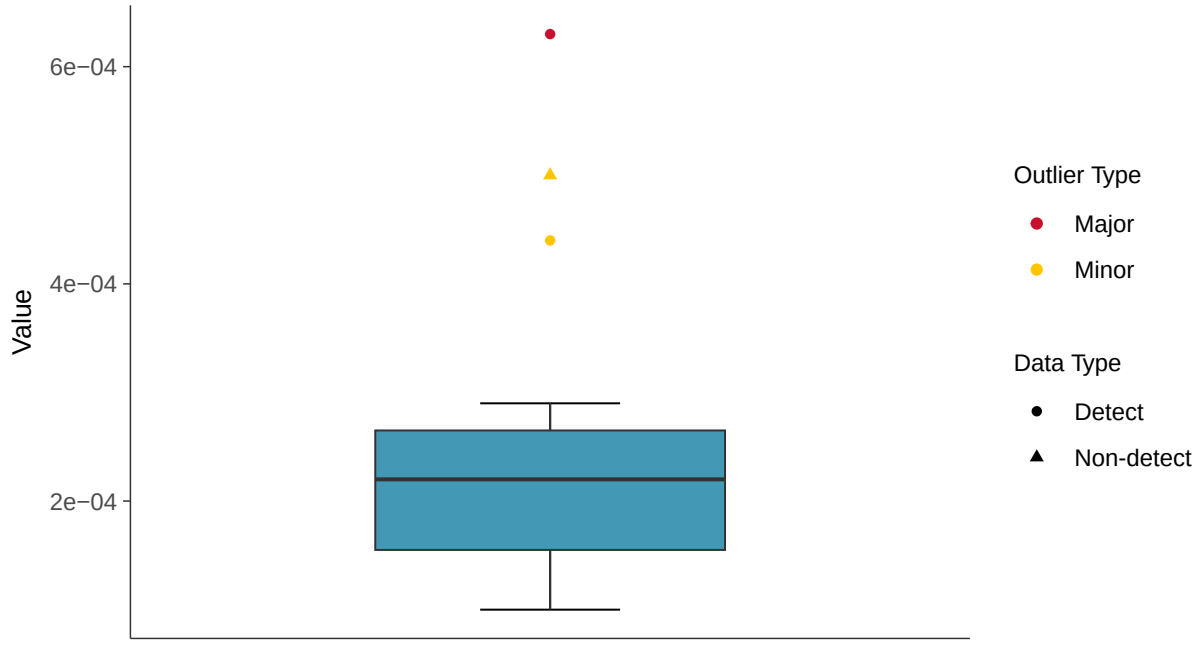
Histogram

Antimony, MW-02 (mg/L)



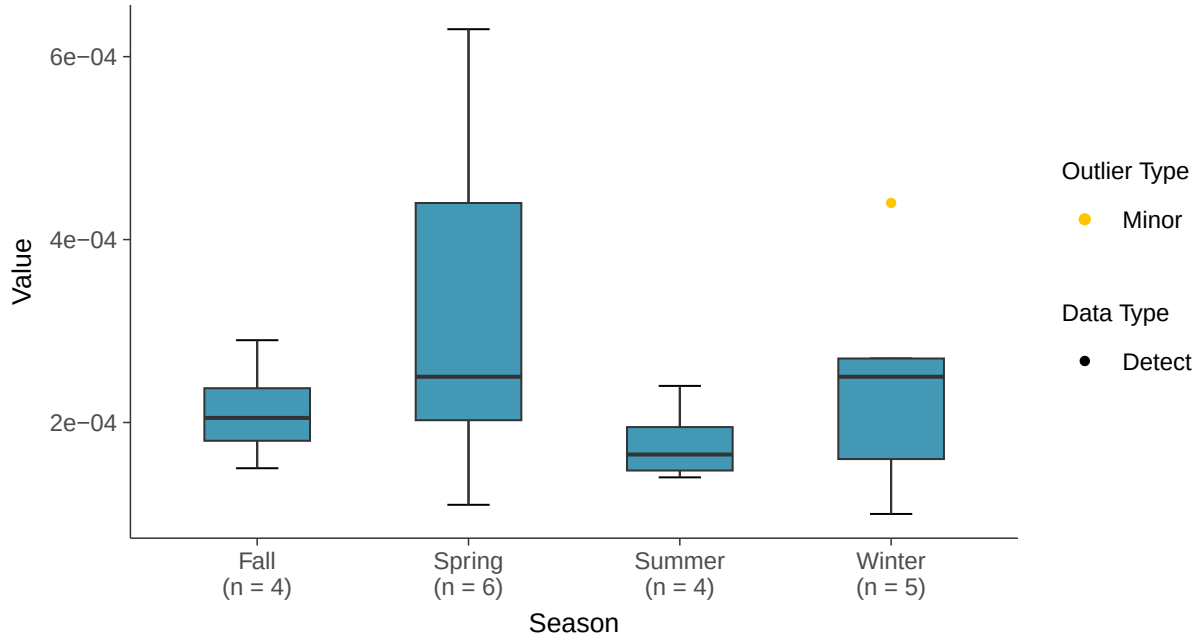
Boxplot

Antimony, MW-02 (mg/L)



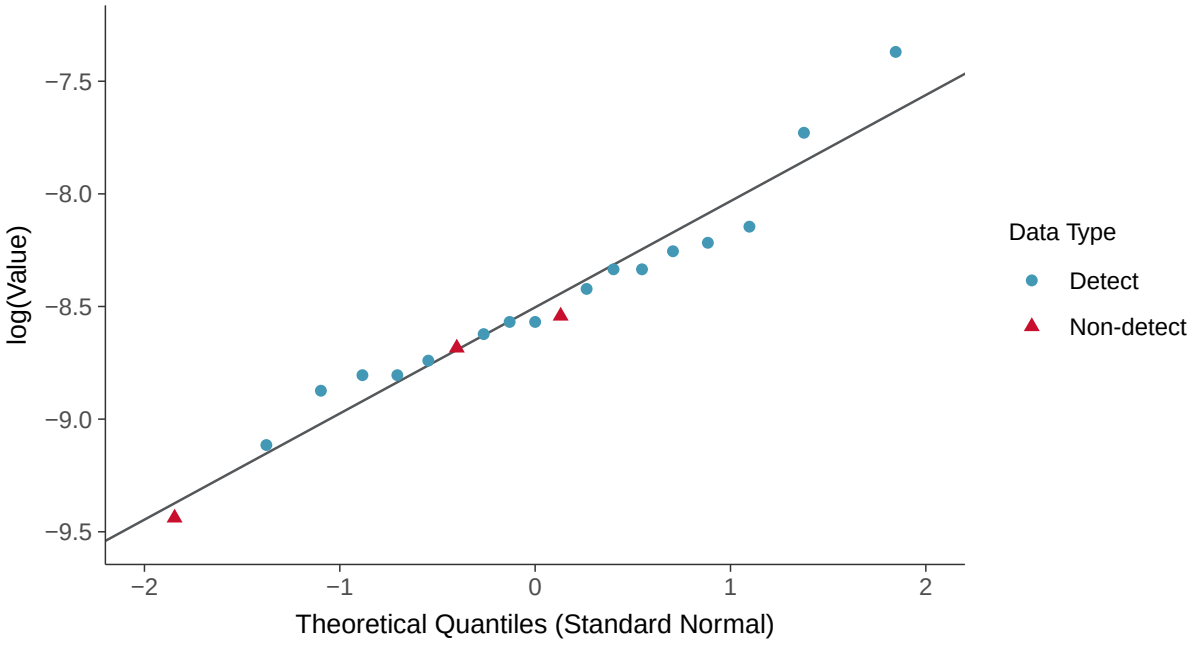
Boxplot by Season

Antimony, MW-02 (mg/L)



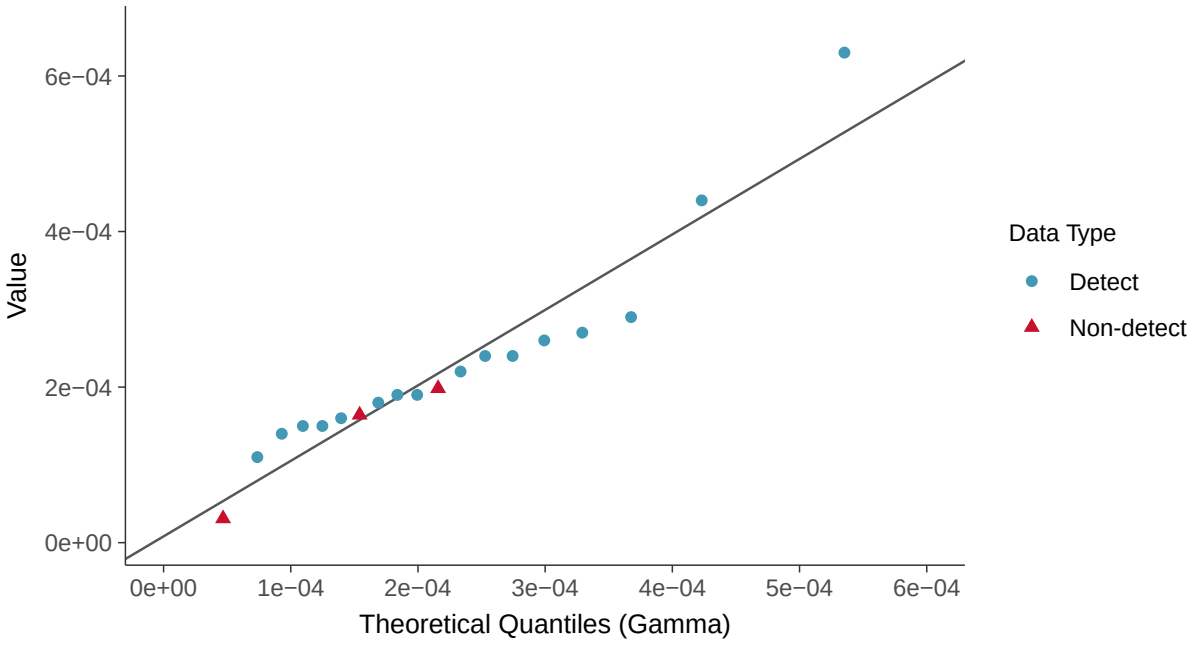
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-02 (mg/L)



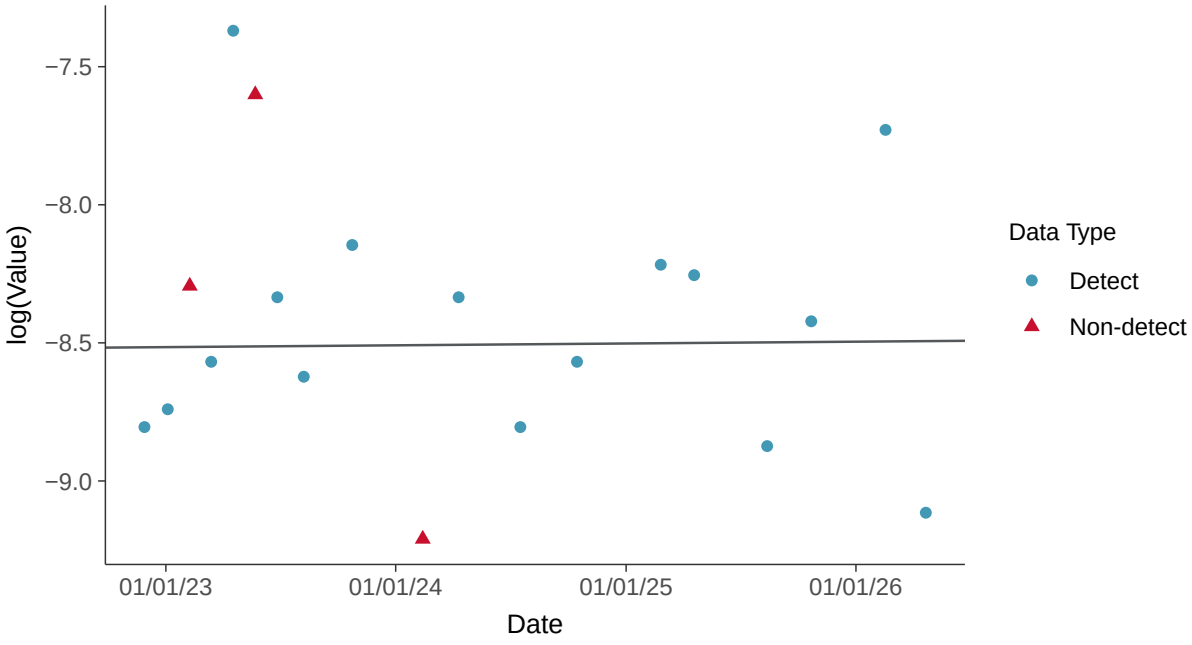
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-02 (mg/L)



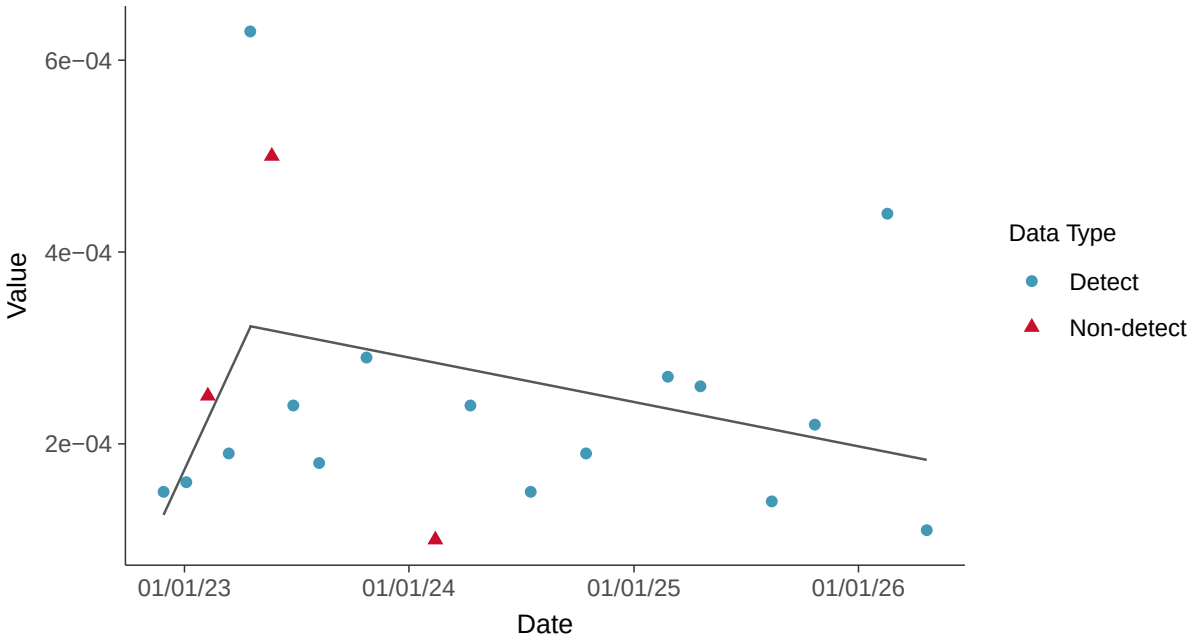
Trend Regression: Lognormal MLE

Antimony, MW-02 (mg/L)



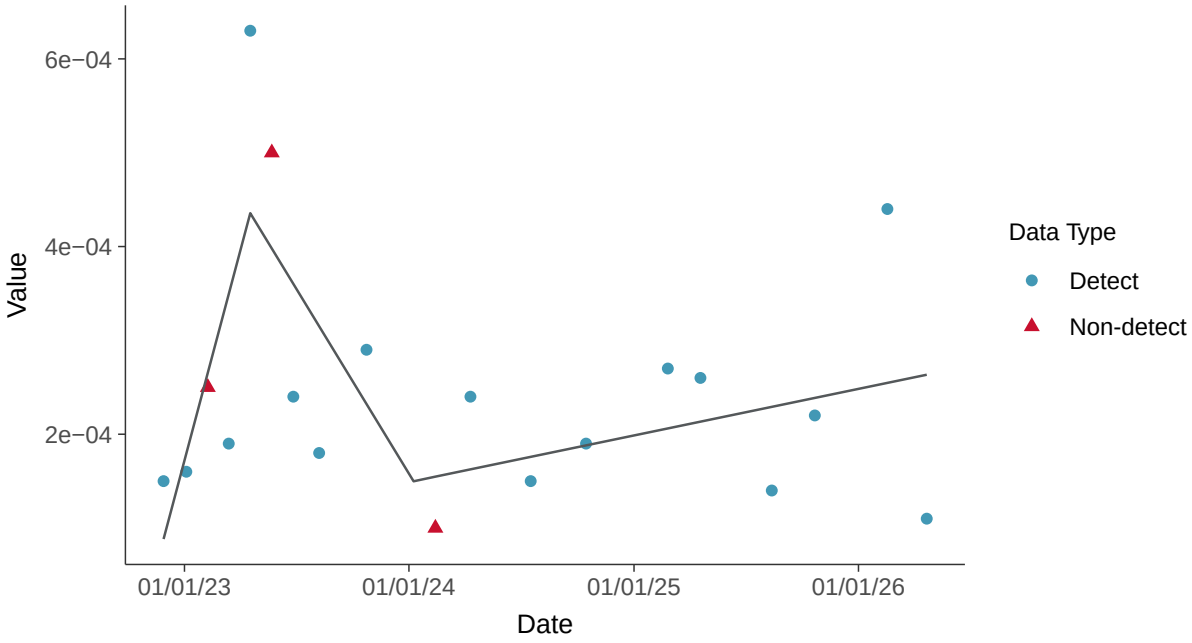
Trend Regression: Piecewise Linear-Linear

Antimony, MW-02 (mg/L)



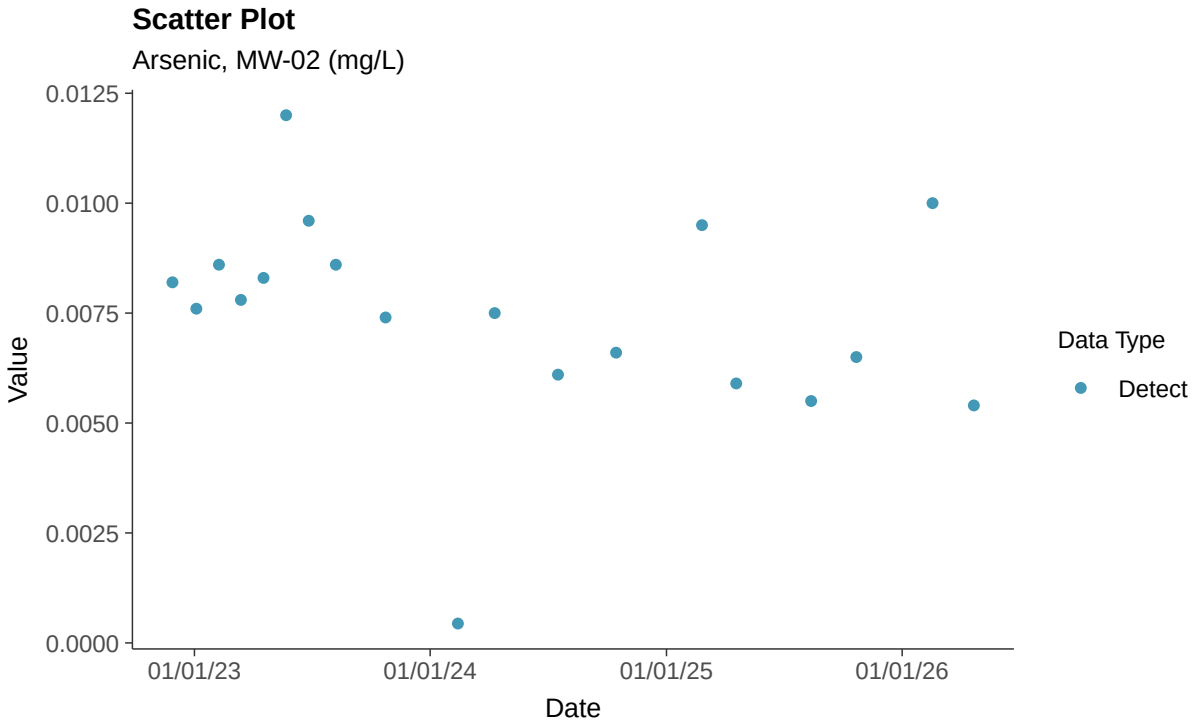
Trend Regression: Piecewise Linear-Linear-Linear

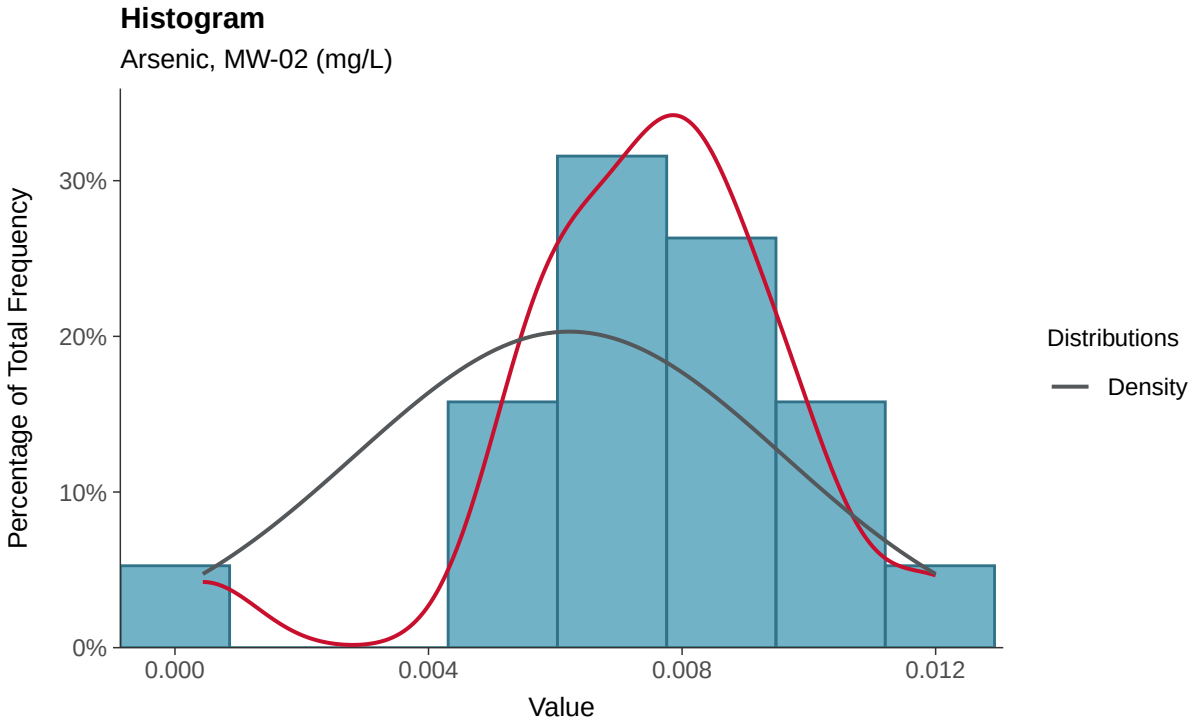
Antimony, MW-02 (mg/L)



Appendix IV: Arsenic, MW-02

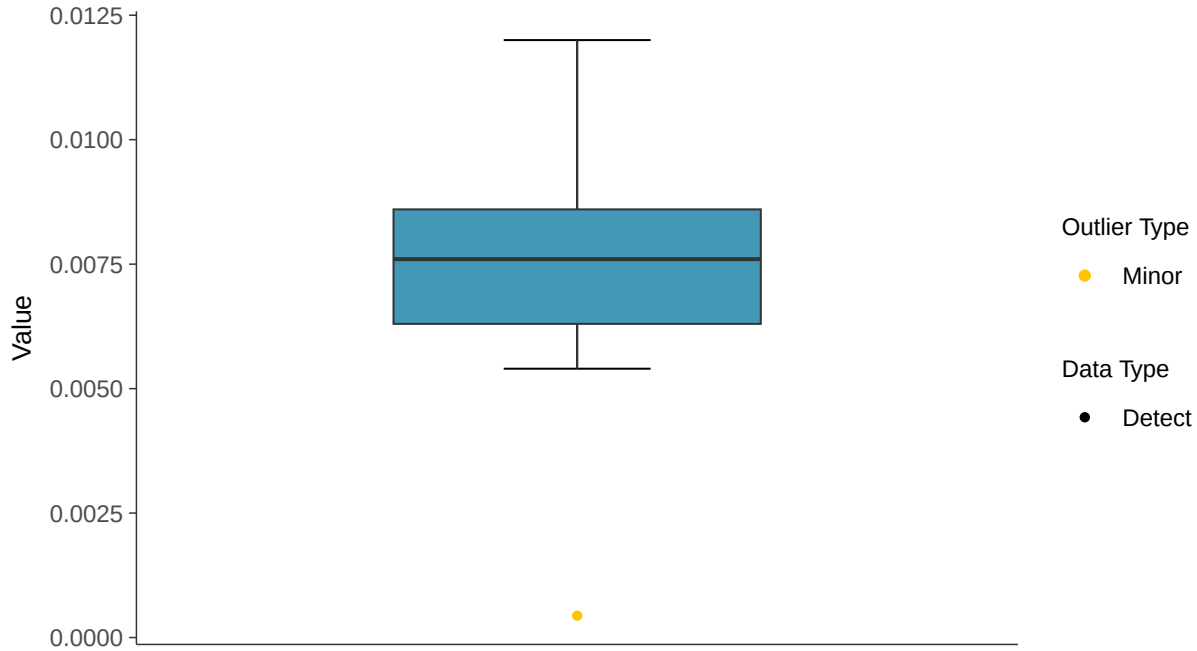
ID: 12_2_4_102





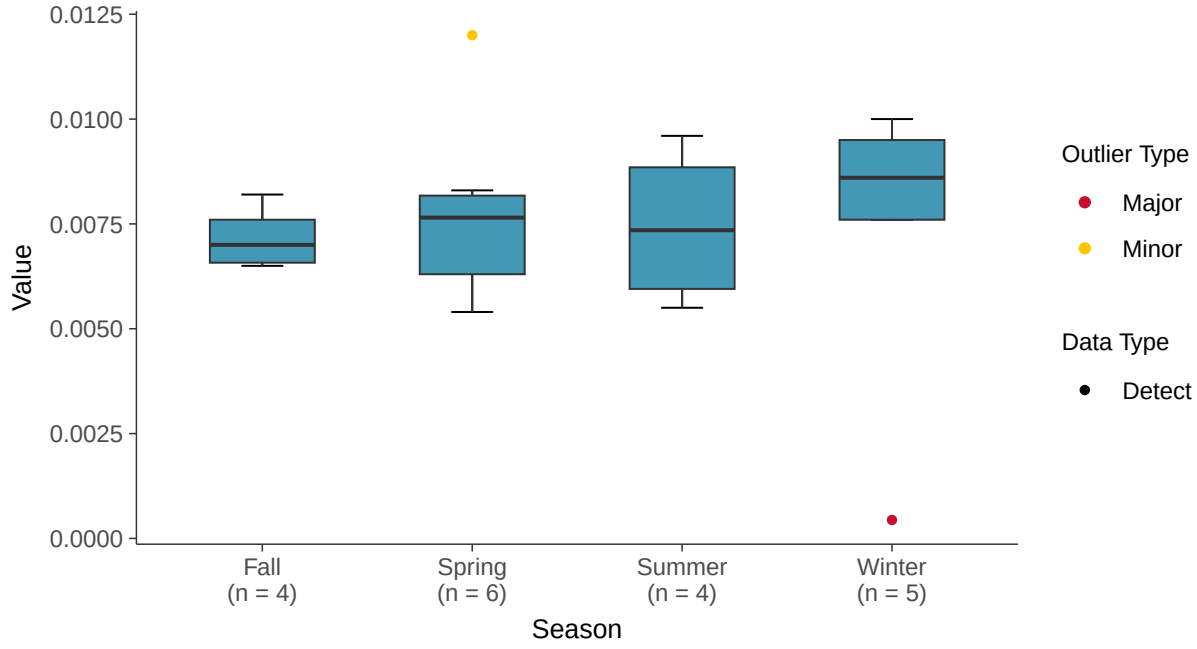
Boxplot

Arsenic, MW-02 (mg/L)



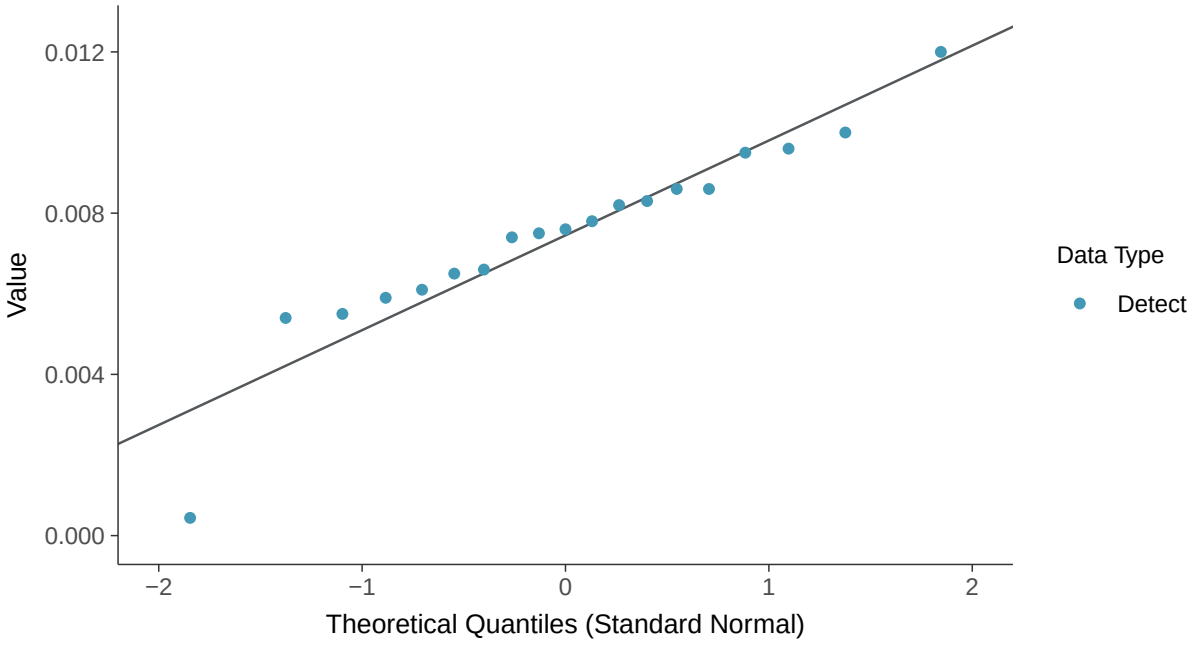
Boxplot by Season

Arsenic, MW-02 (mg/L)



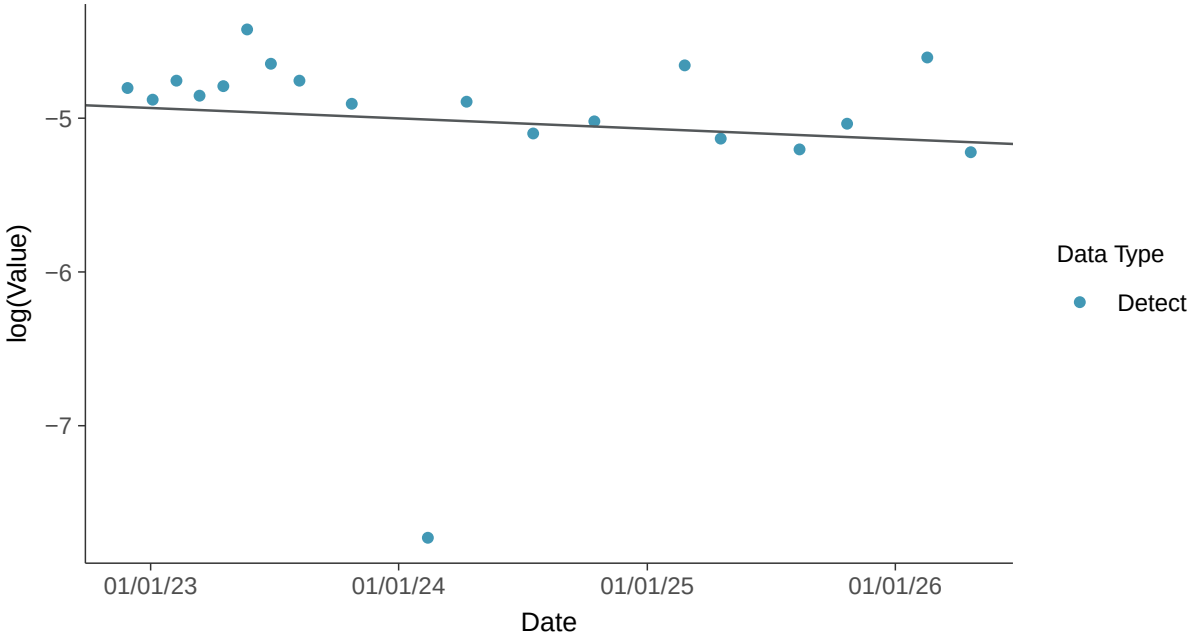
Normal Q-Q plot

Arsenic, MW-02 (mg/L)



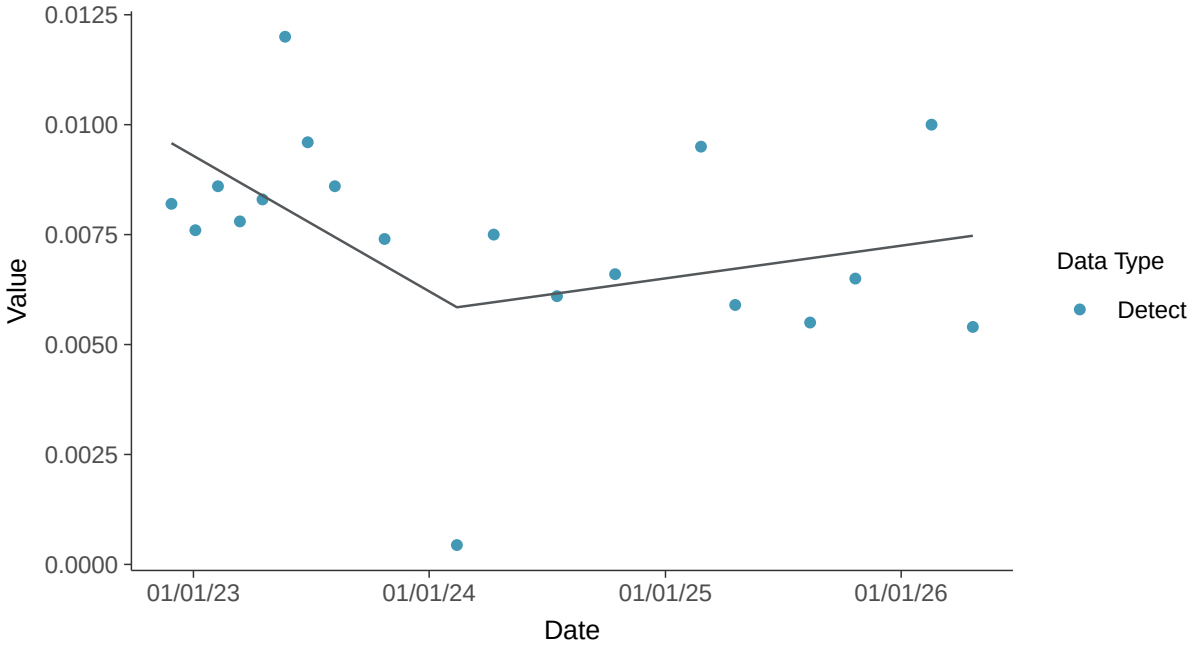
Trend Regression: Lognormal MLE

Arsenic, MW-02 (mg/L)



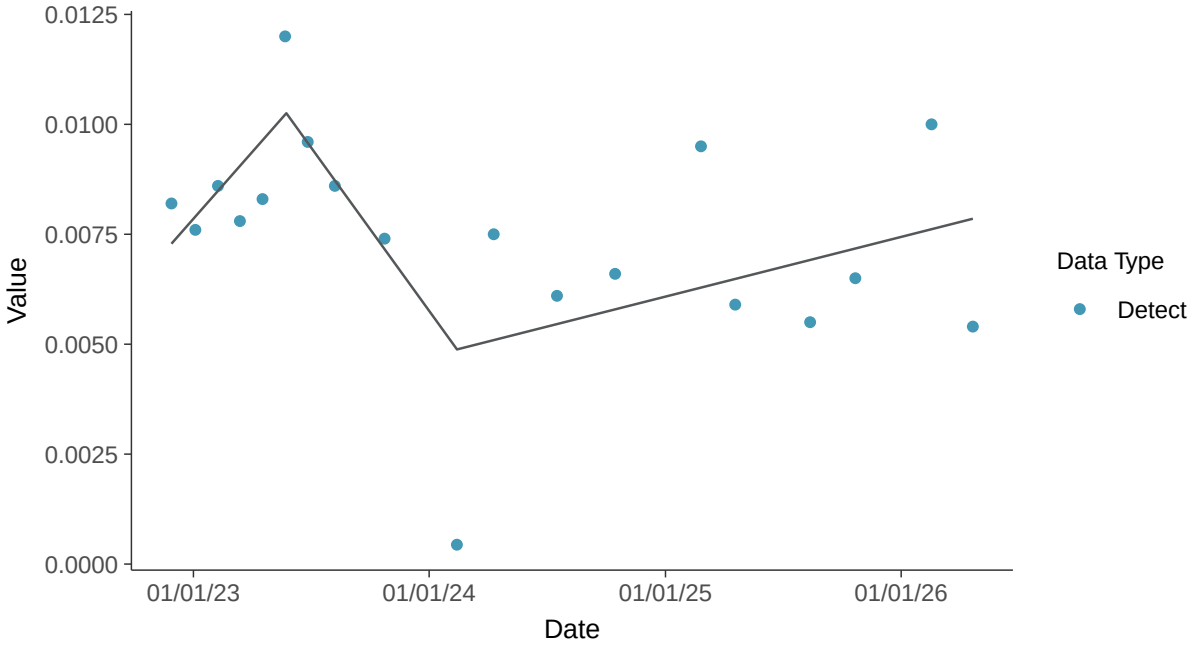
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-02 (mg/L)

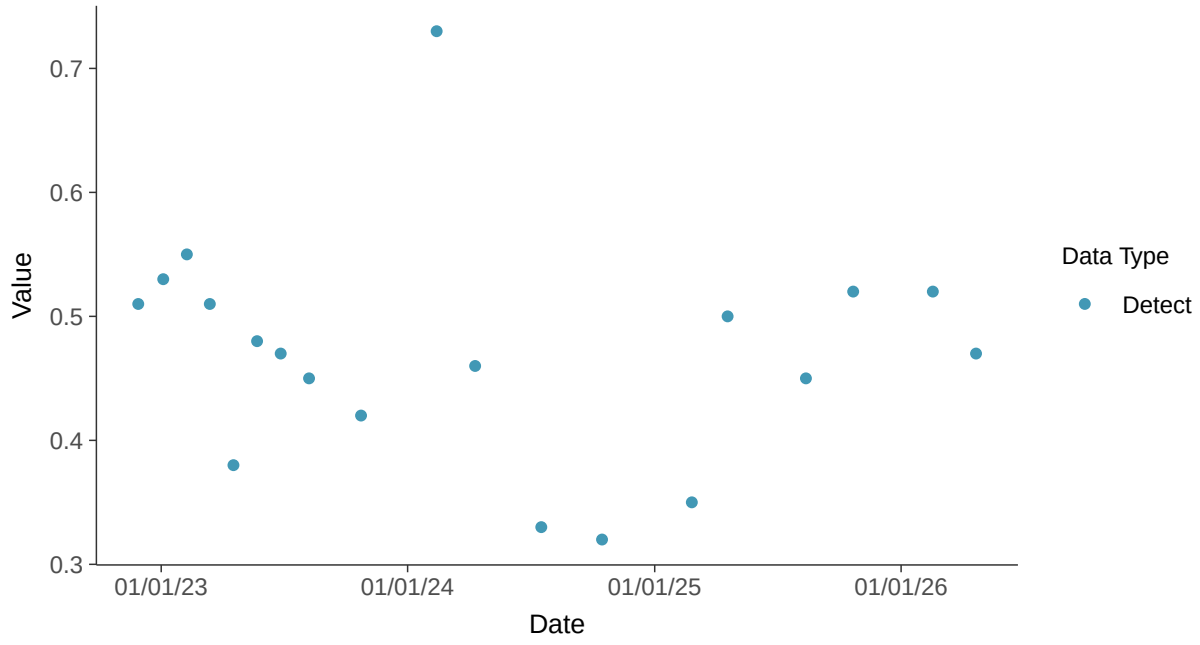


Appendix IV: Barium, MW-02

ID: 12_2_4_103

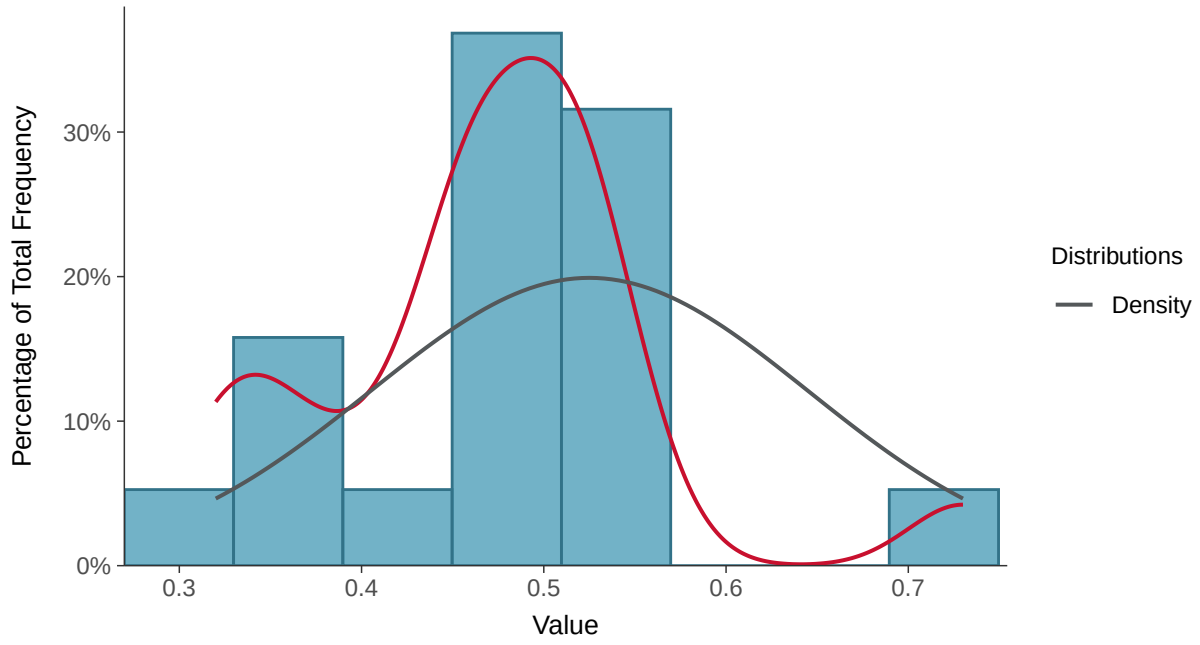
Scatter Plot

Barium, MW-02 (mg/L)



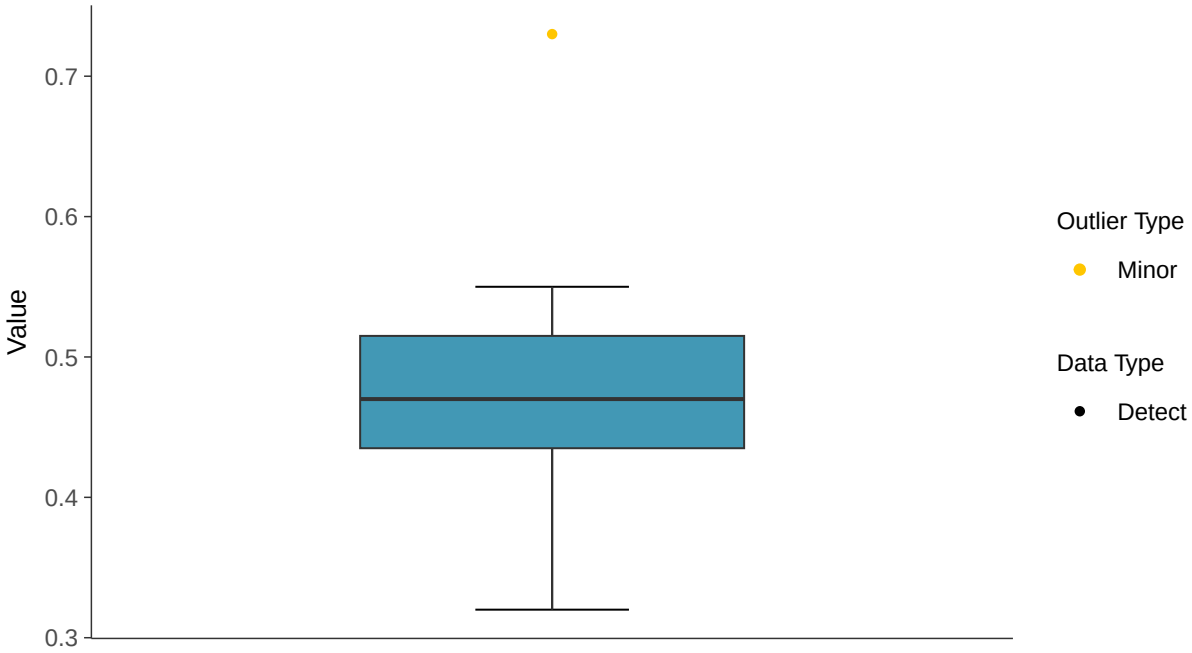
Histogram

Barium, MW-02 (mg/L)



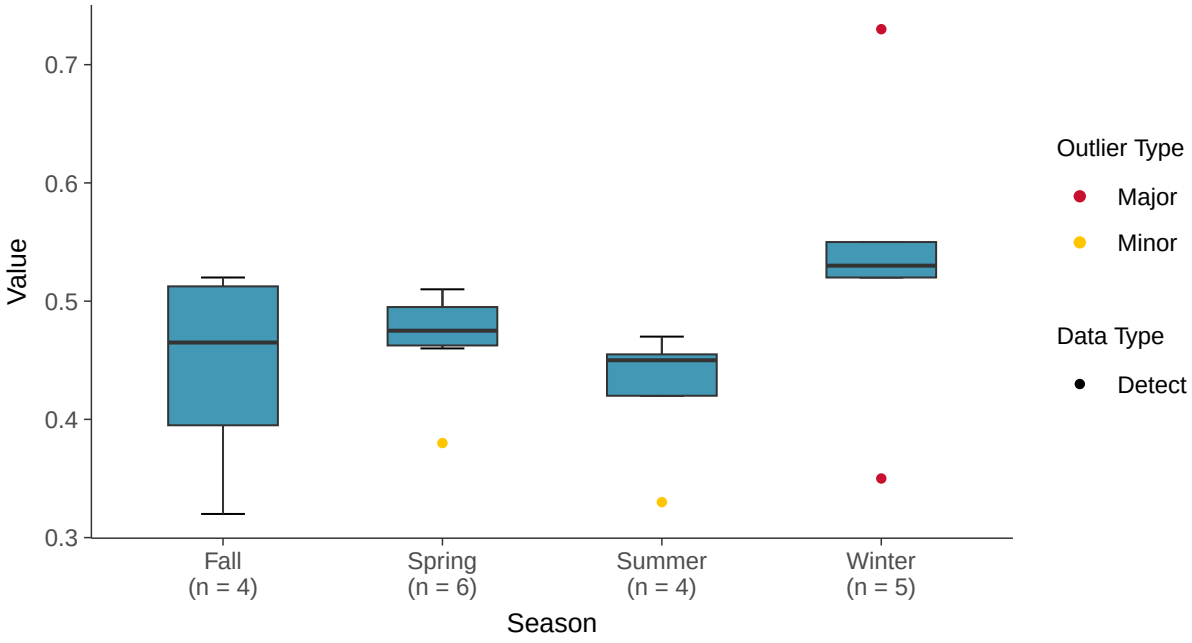
Boxplot

Barium, MW-02 (mg/L)



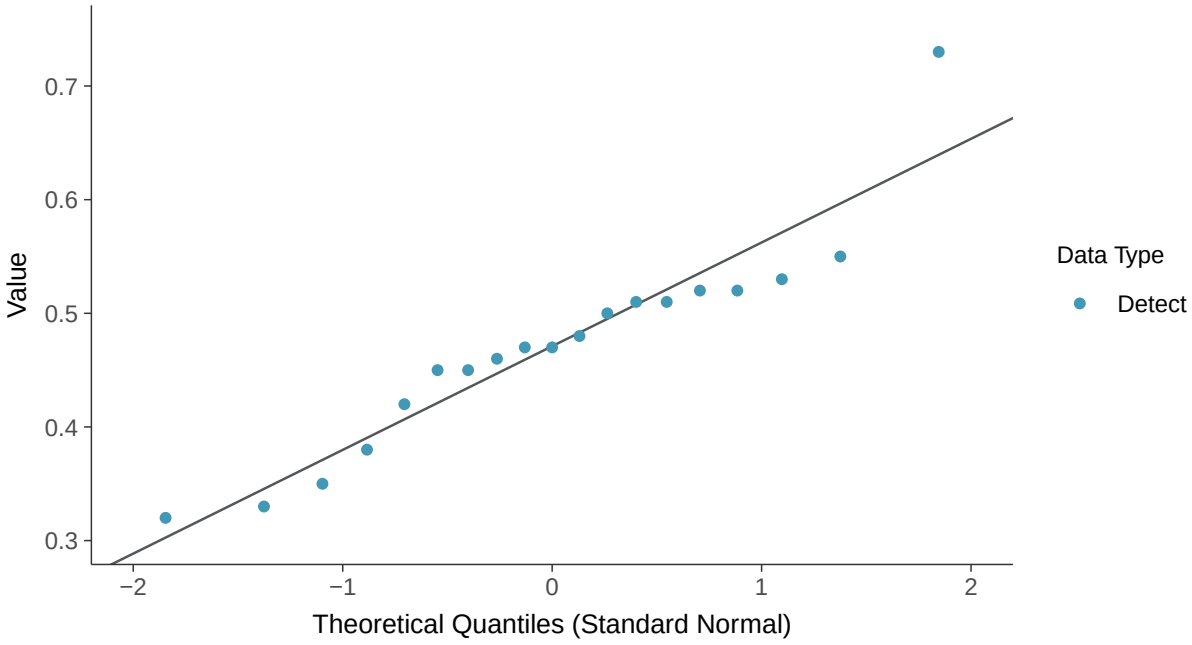
Boxplot by Season

Barium, MW-02 (mg/L)



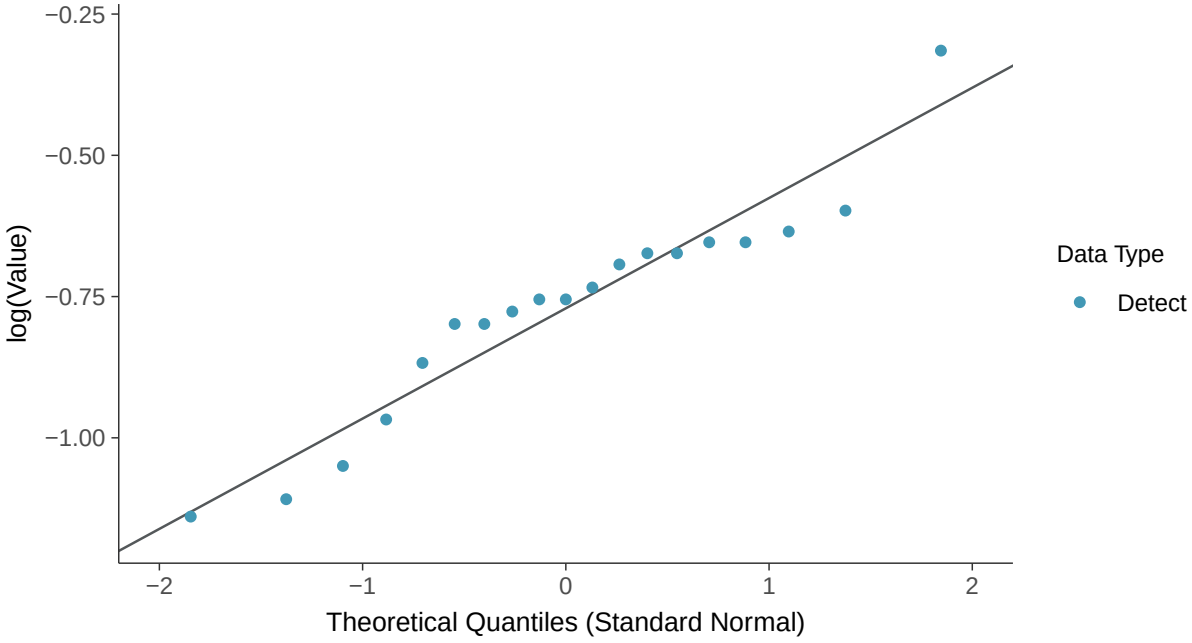
Normal Q-Q plot

Barium, MW-02 (mg/L)



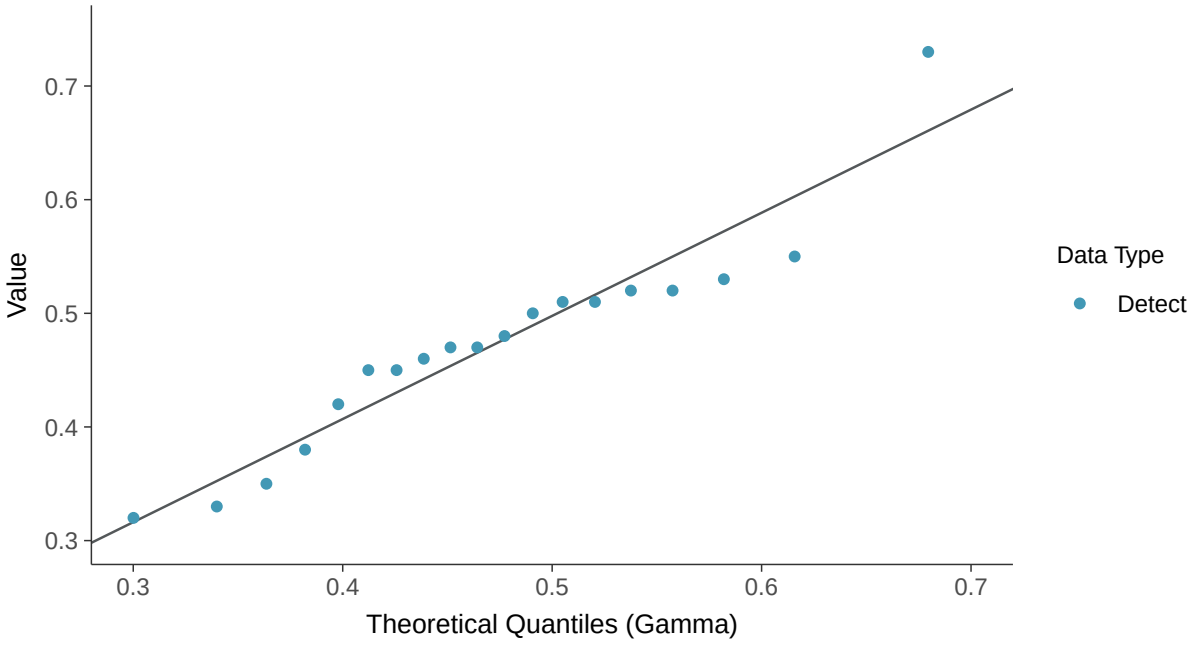
Lognormal Q-Q plot

Barium, MW-02 (mg/L)



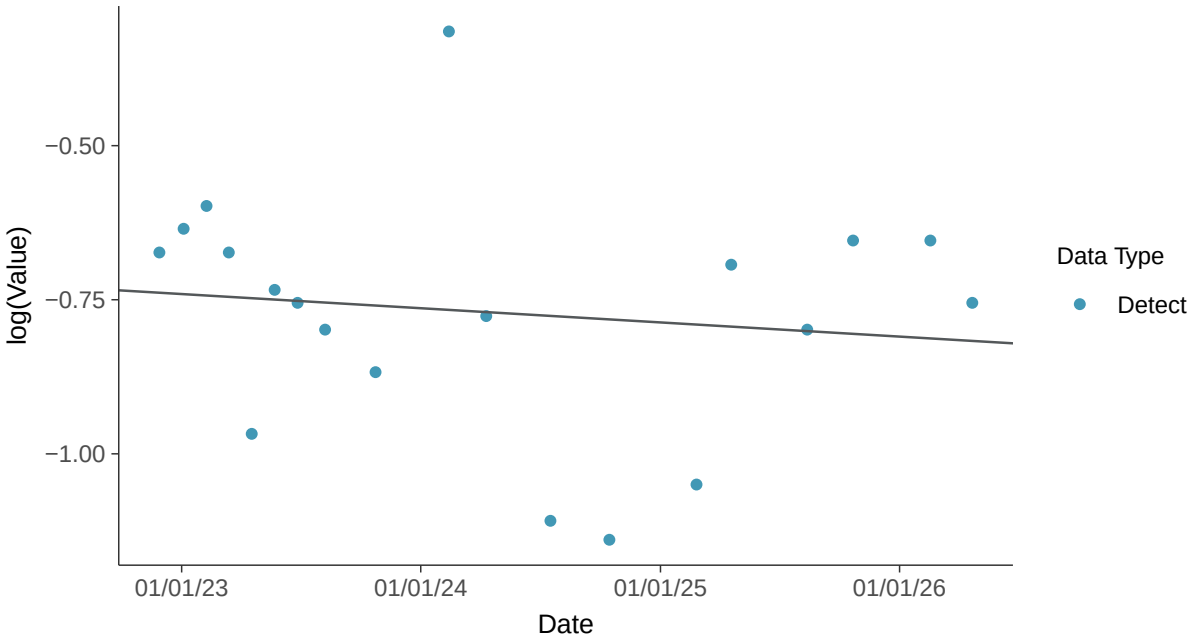
Gamma Q-Q plot

Barium, MW-02 (mg/L)



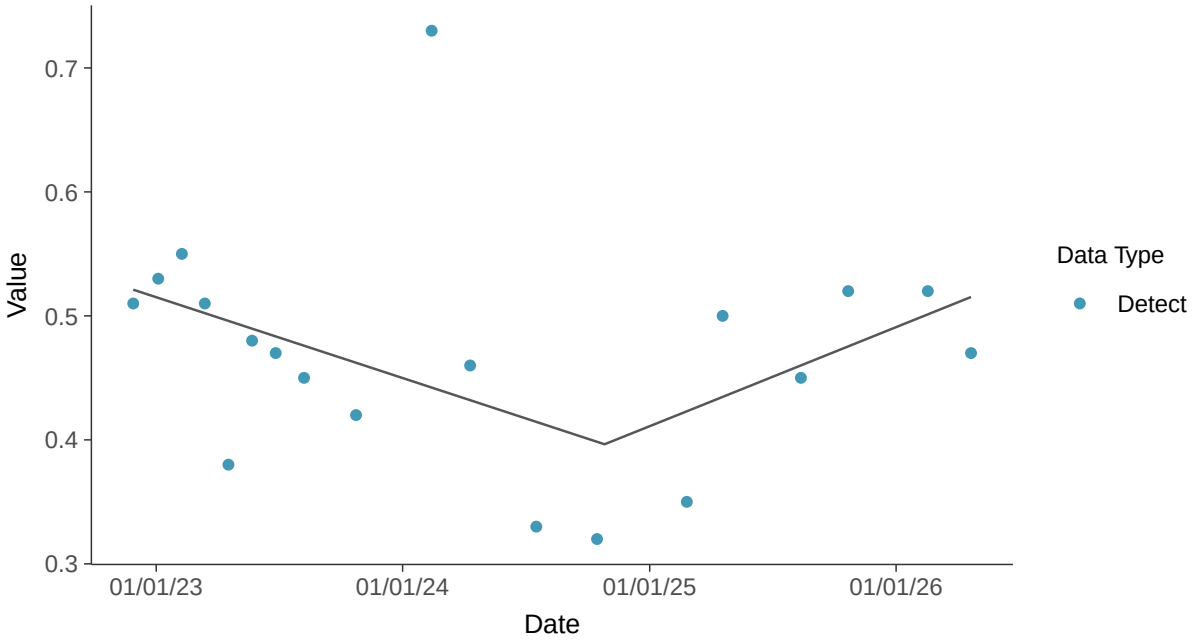
Trend Regression: Lognormal MLE

Barium, MW-02 (mg/L)



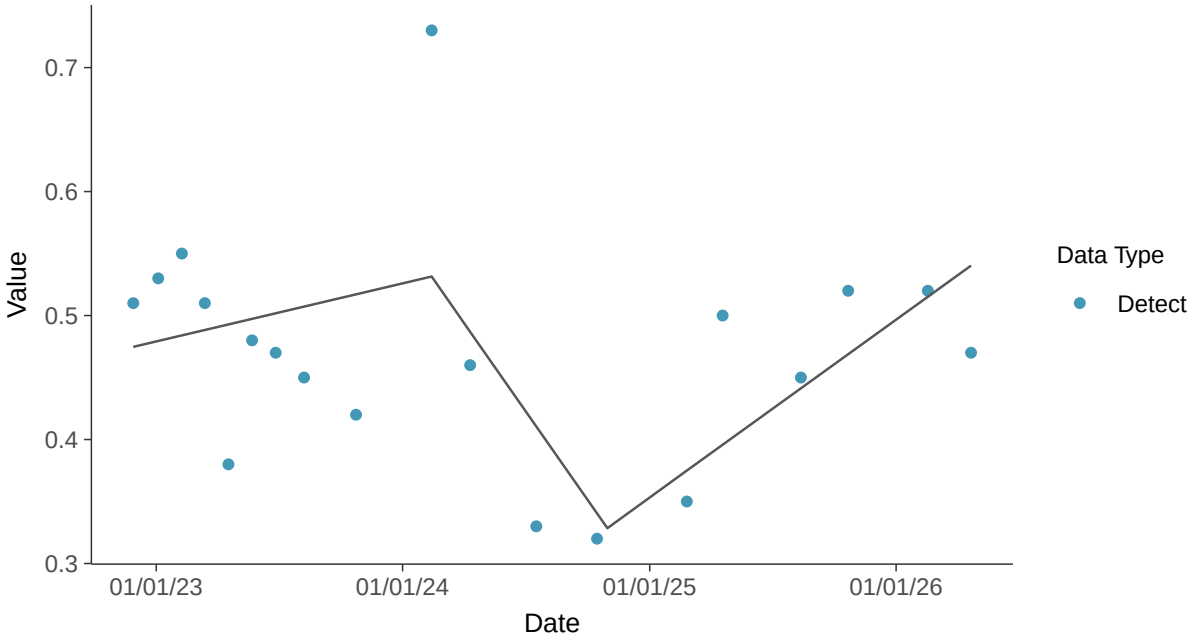
Trend Regression: Piecewise Linear-Linear

Barium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-02 (mg/L)

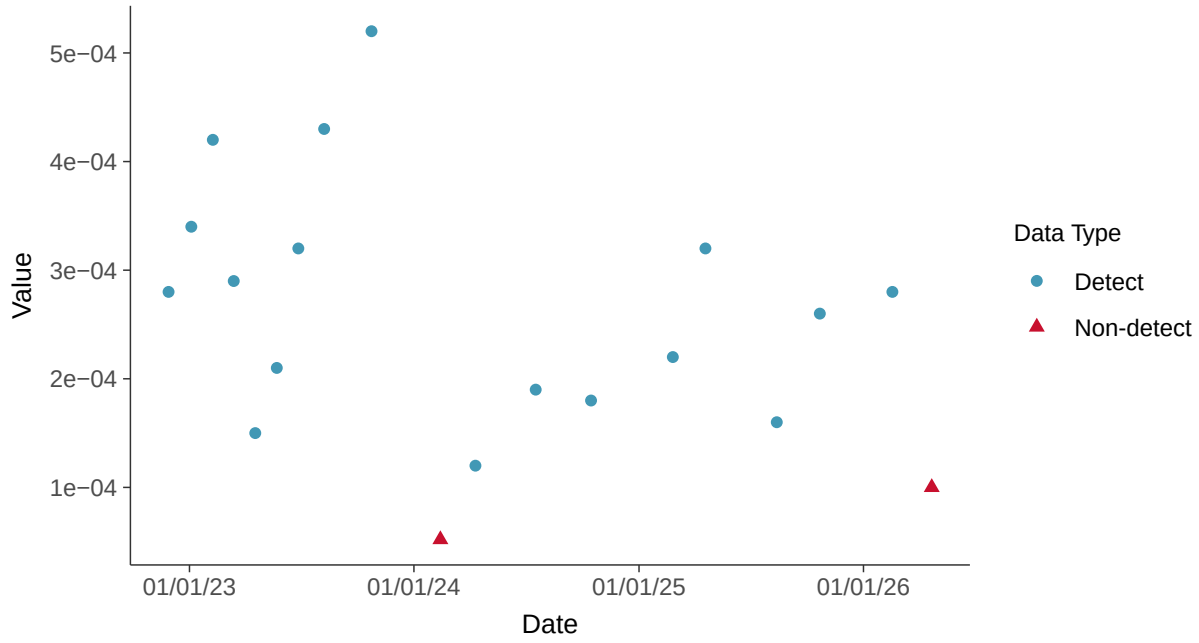


Appendix IV: Beryllium, MW-02

ID: 12_2_4_104

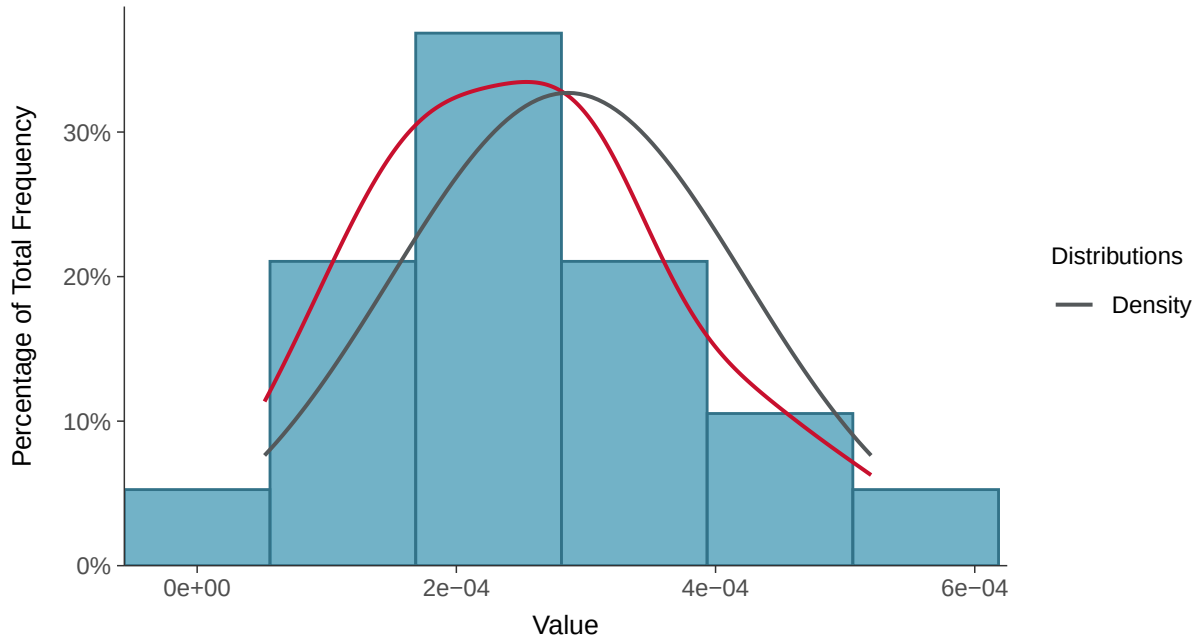
Scatter Plot

Beryllium, MW-02 (mg/L)



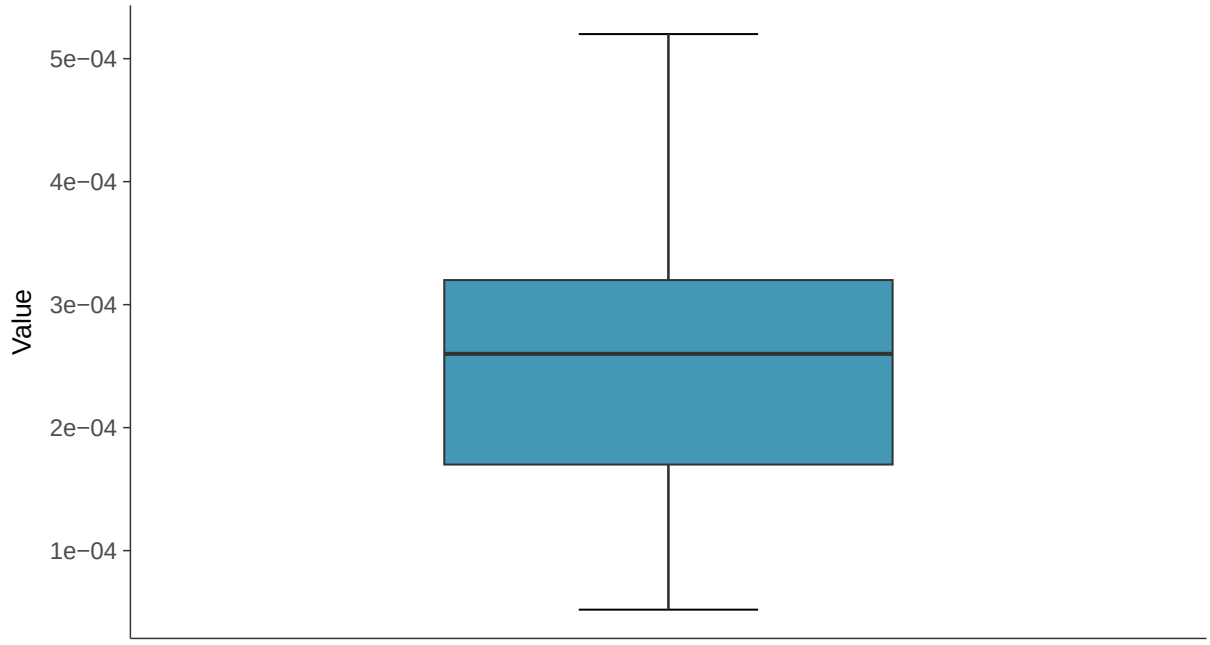
Histogram

Beryllium, MW-02 (mg/L)



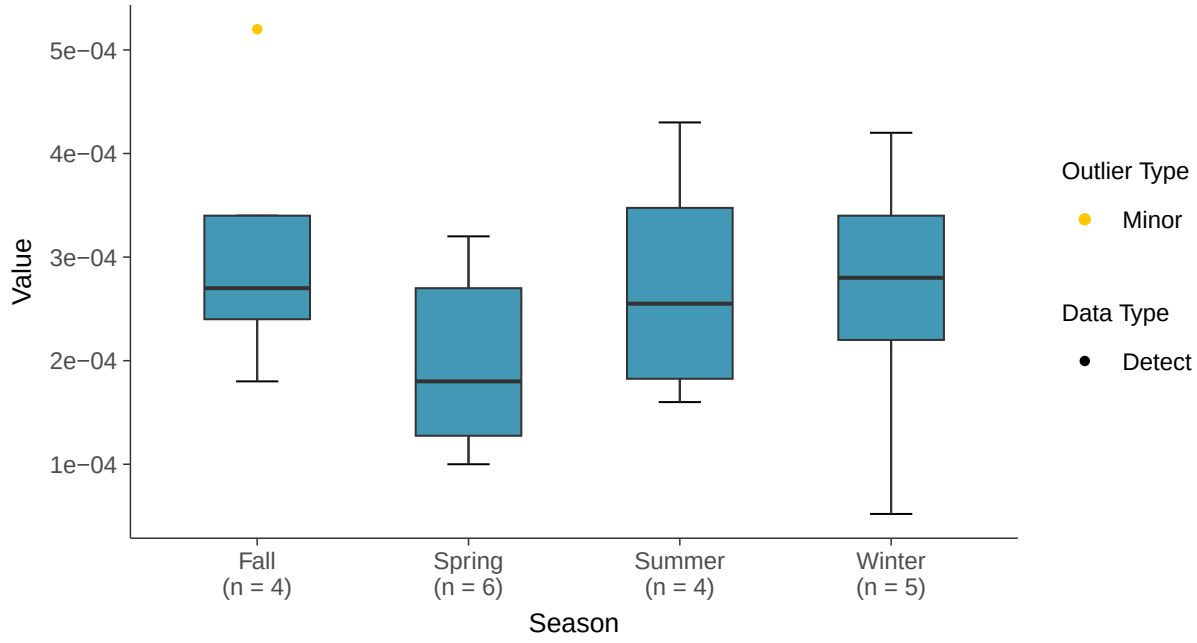
Boxplot

Beryllium, MW-02 (mg/L)



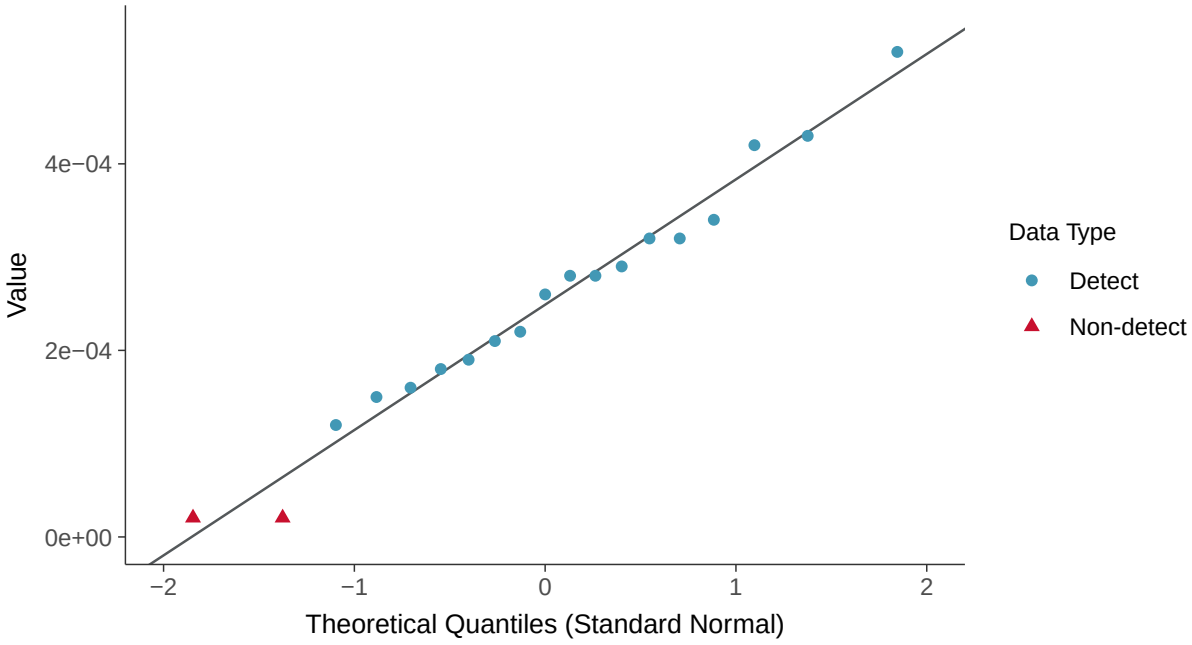
Boxplot by Season

Beryllium, MW-02 (mg/L)



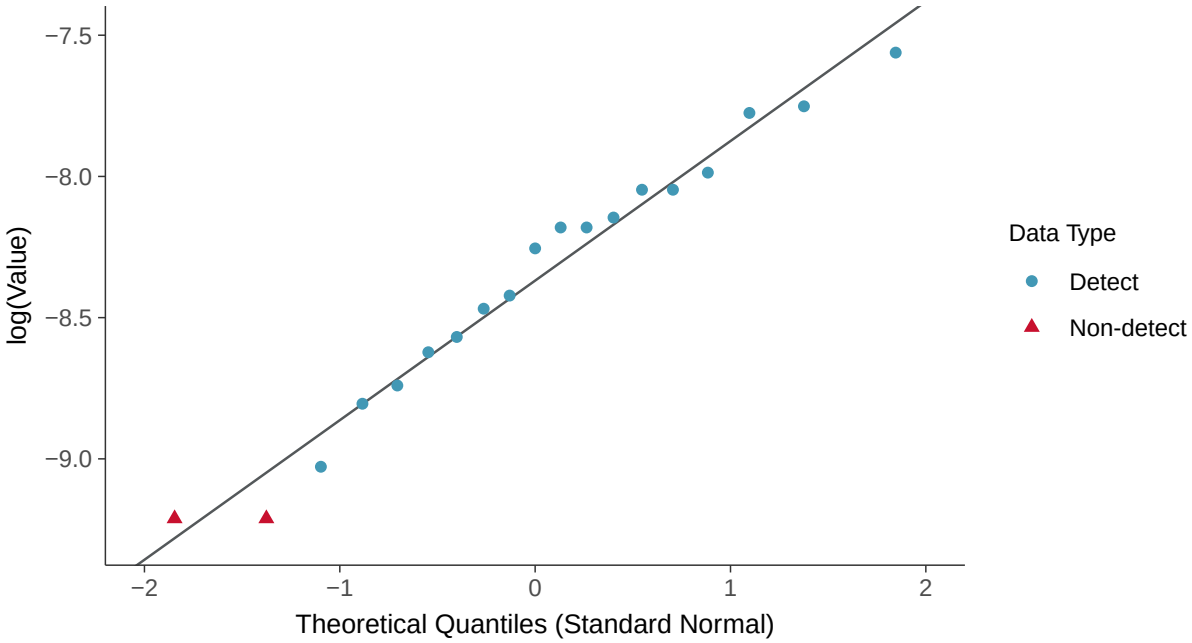
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



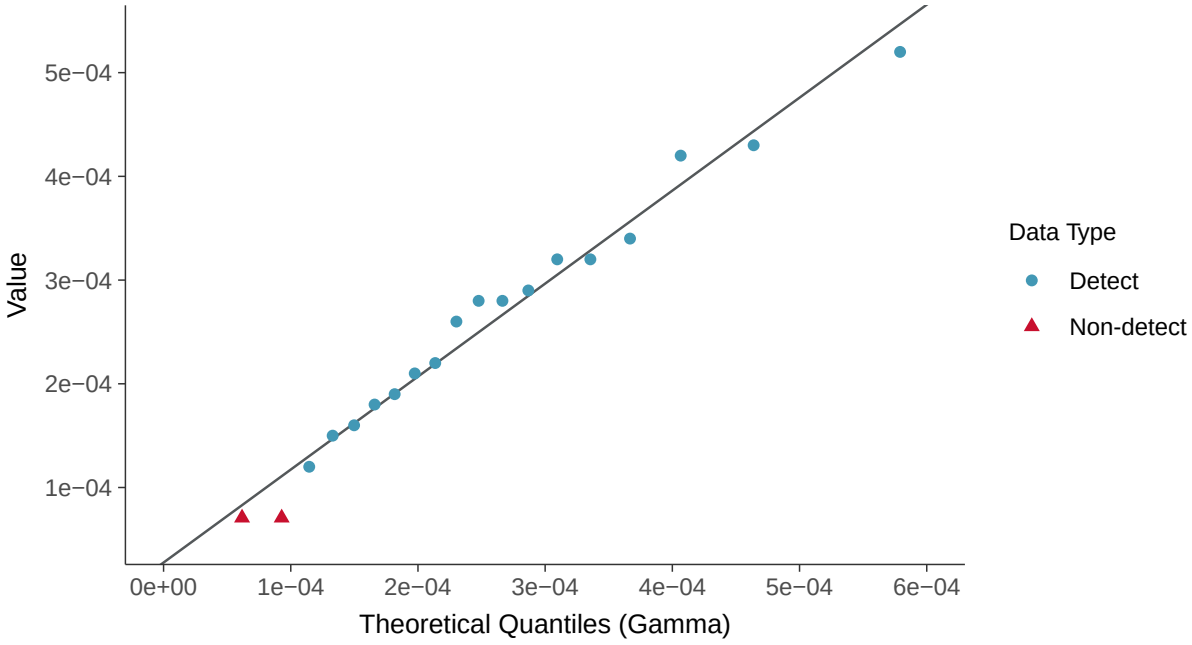
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



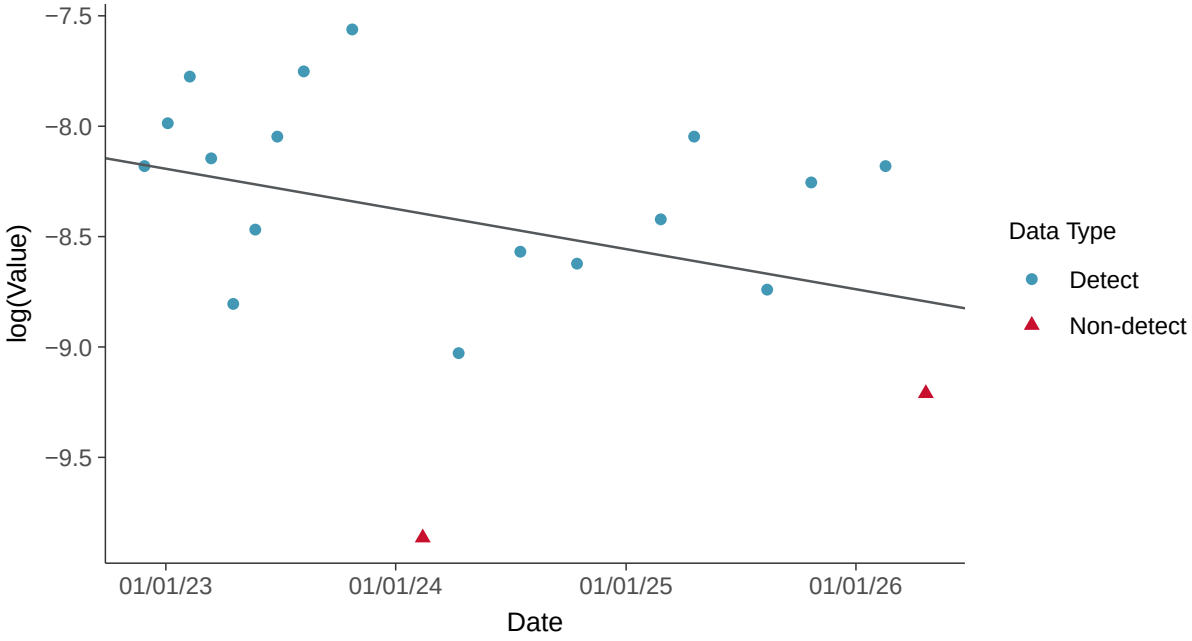
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-02 (mg/L)



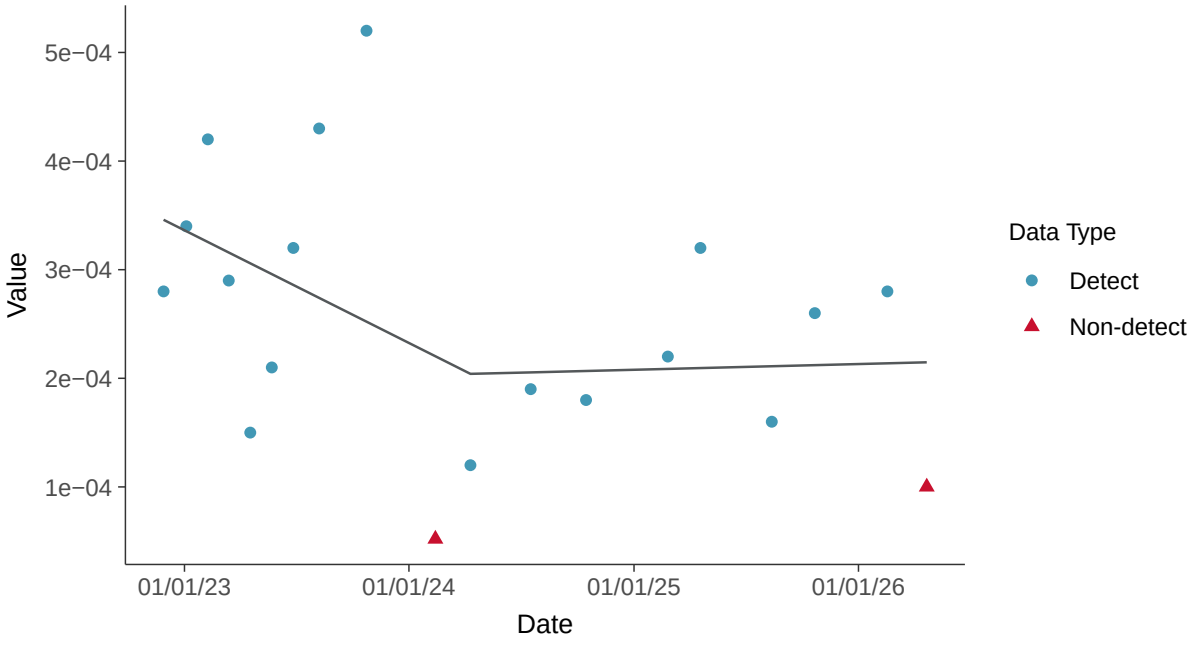
Trend Regression: Lognormal MLE

Beryllium, MW-02 (mg/L)



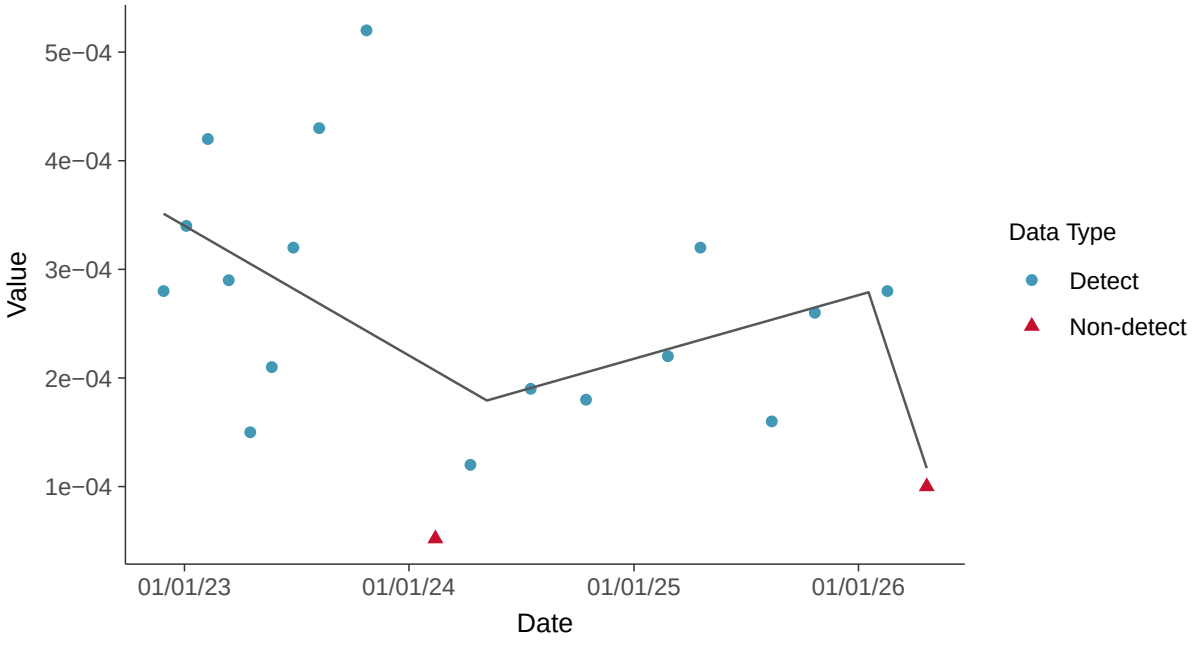
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-02 (mg/L)



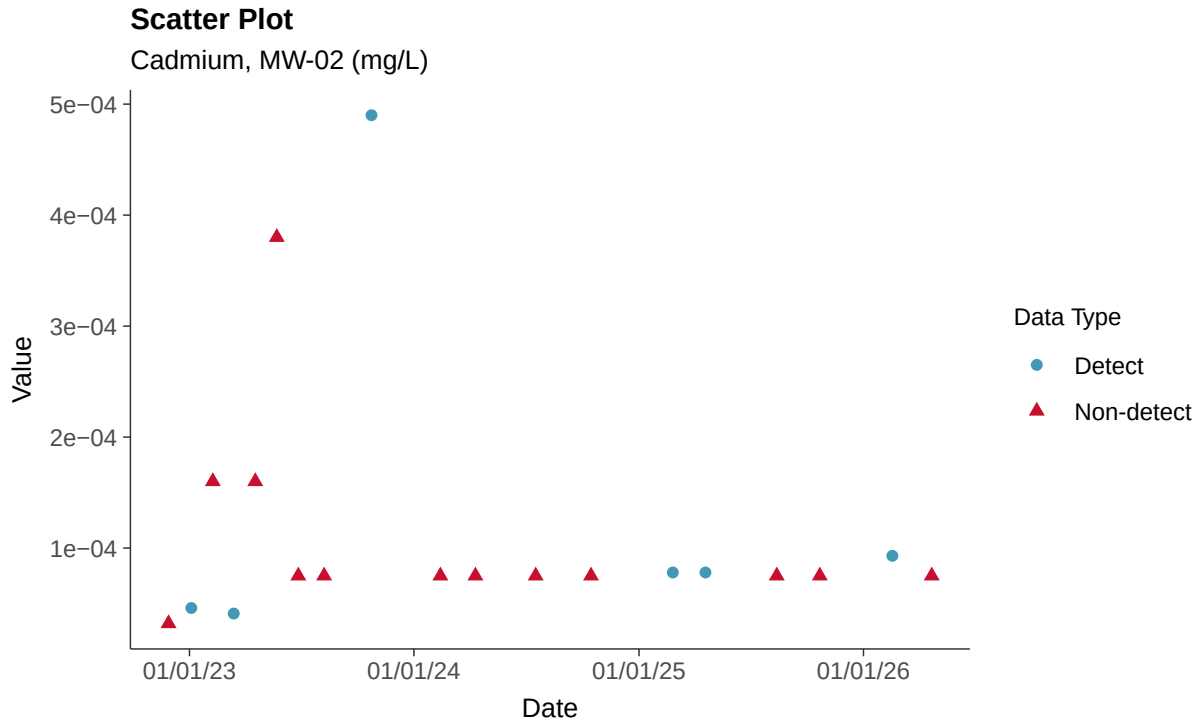
Trend Regression: Piecewise Linear-Linear-Linear

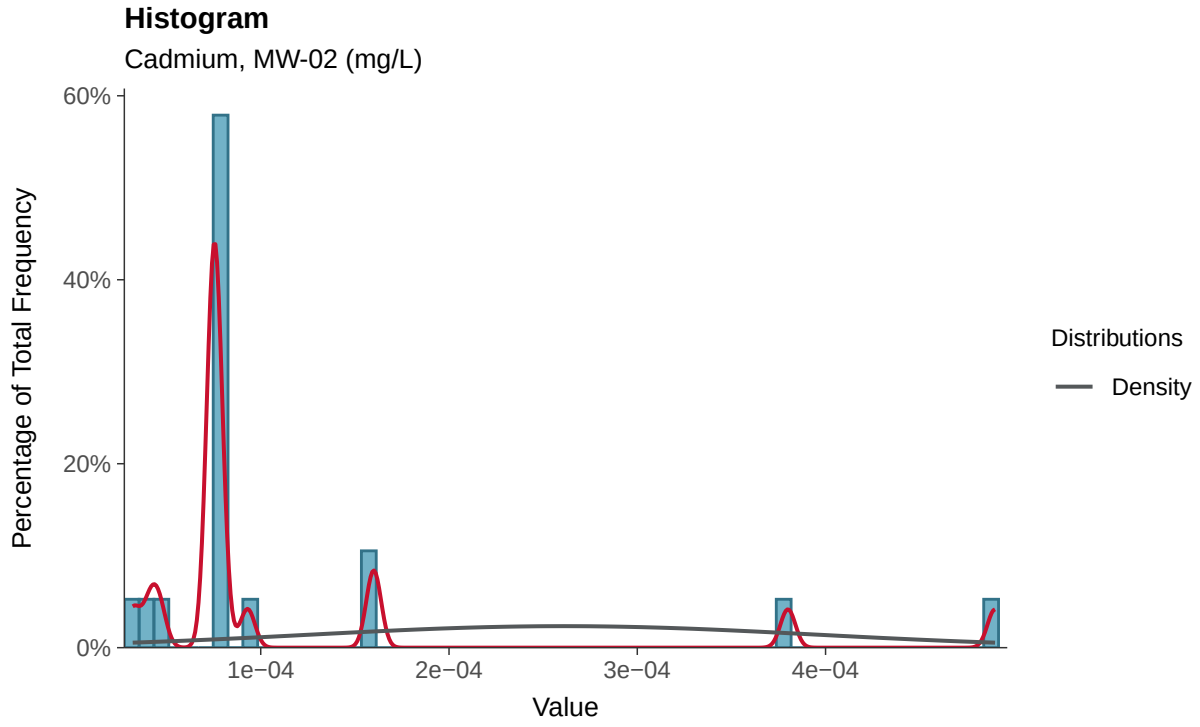
Beryllium, MW-02 (mg/L)



Appendix IV: Cadmium, MW-02

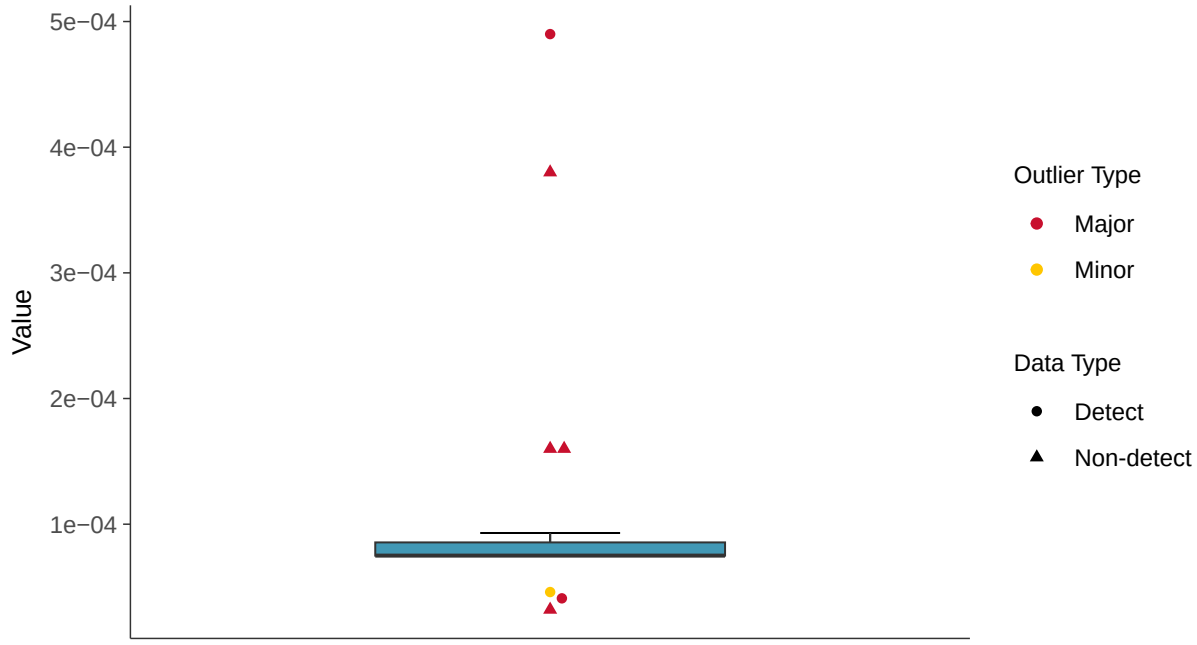
ID: 12_2_4_106





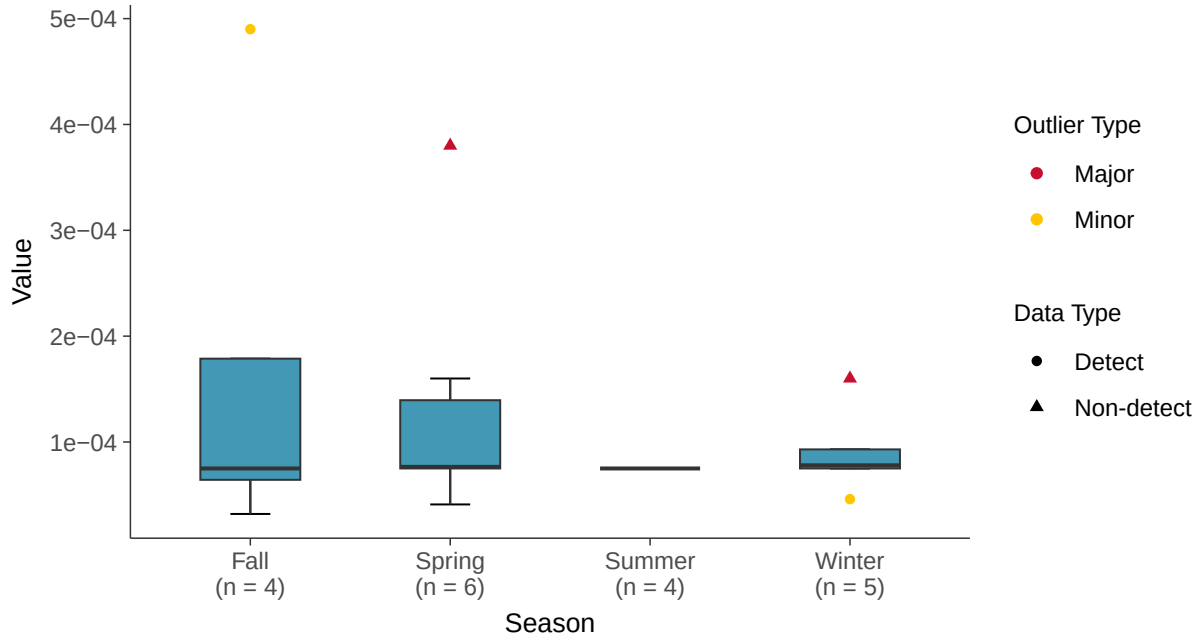
Boxplot

Cadmium, MW-02 (mg/L)



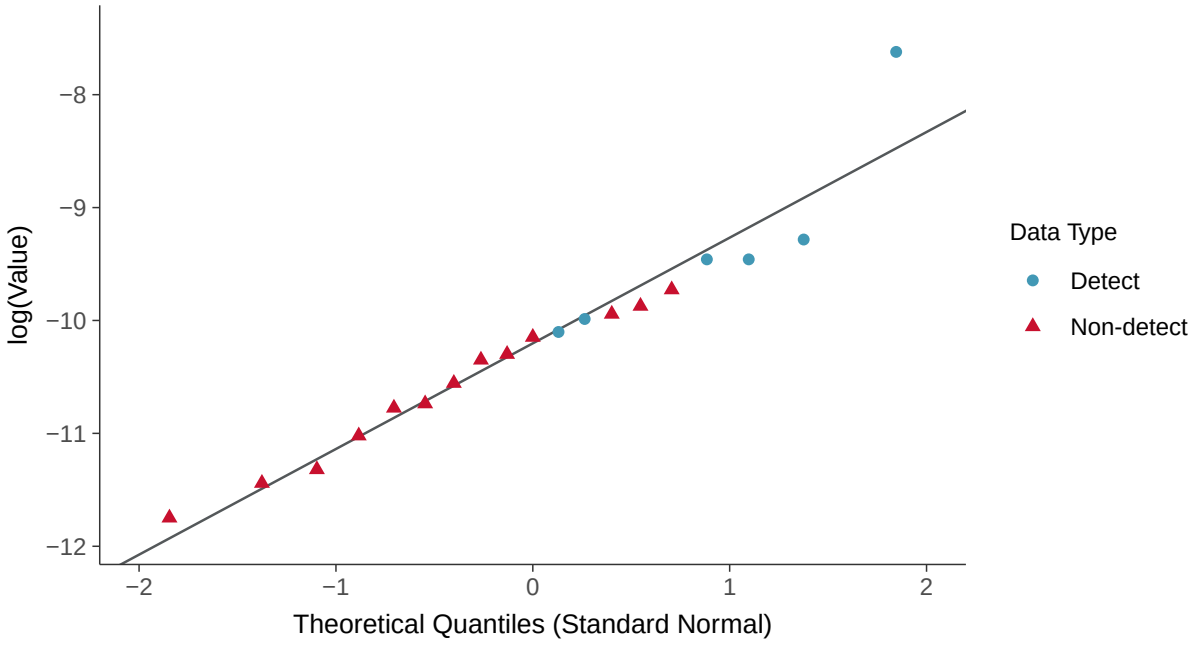
Boxplot by Season

Cadmium, MW-02 (mg/L)



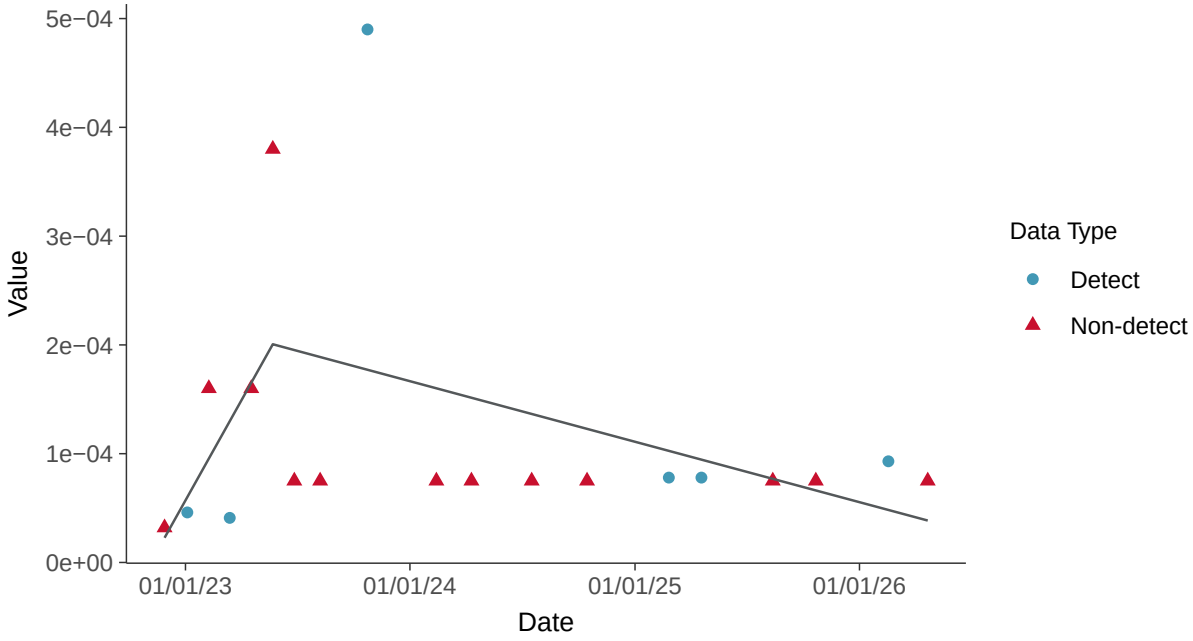
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-02 (mg/L)



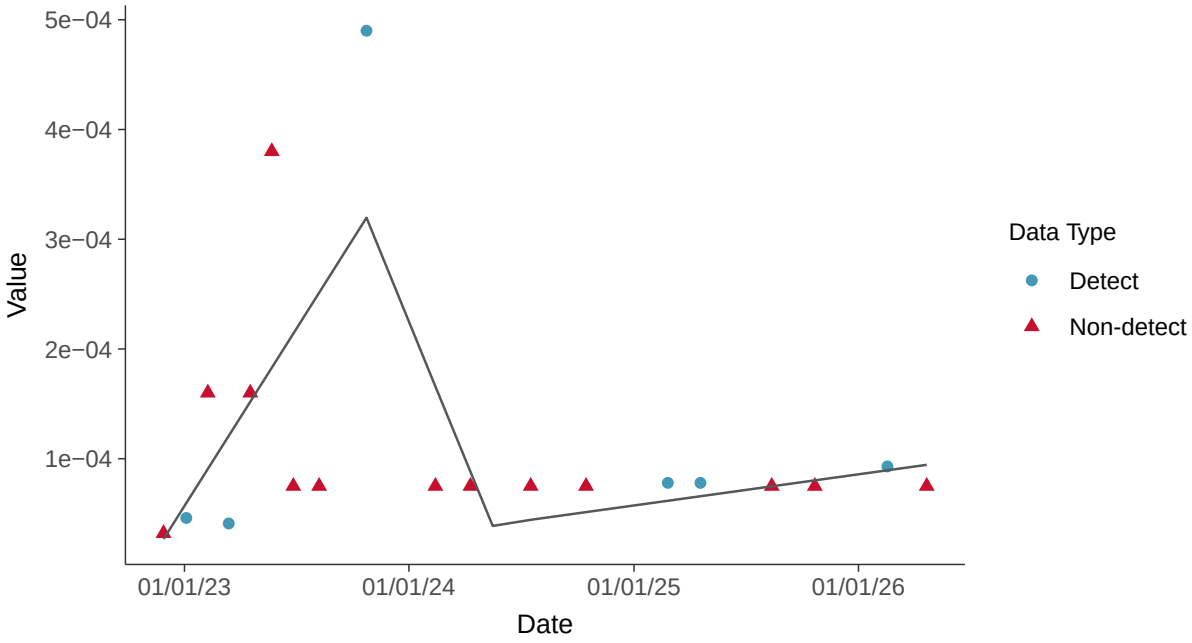
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-02 (mg/L)

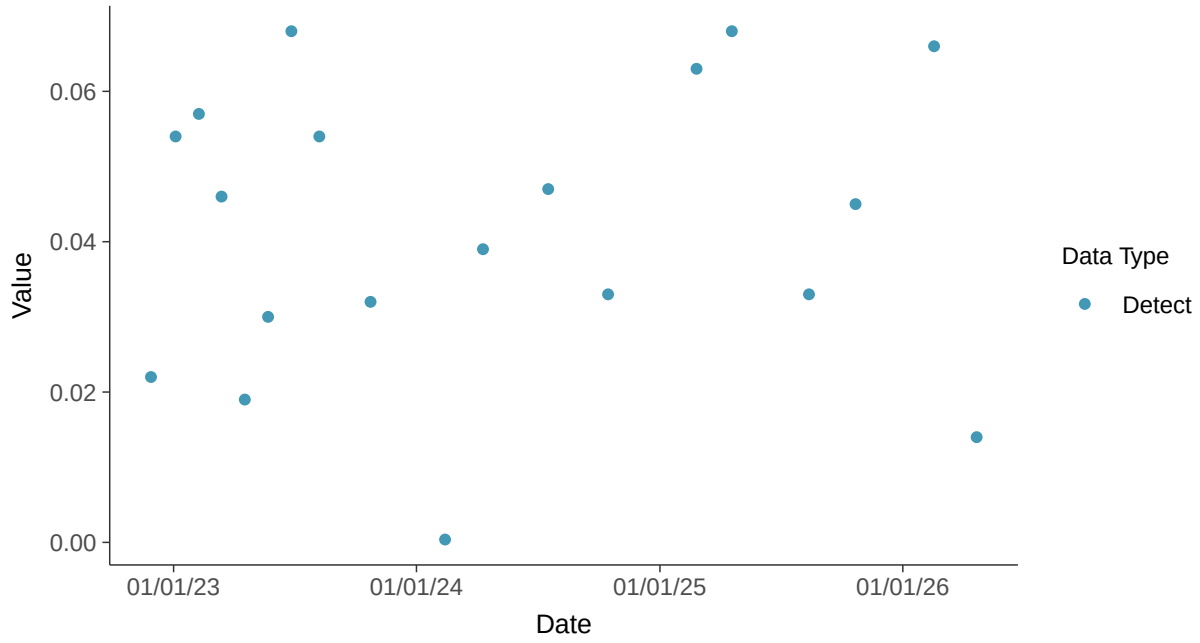


Appendix IV: Chromium, Total, MW-02

ID: 12_2_4_109

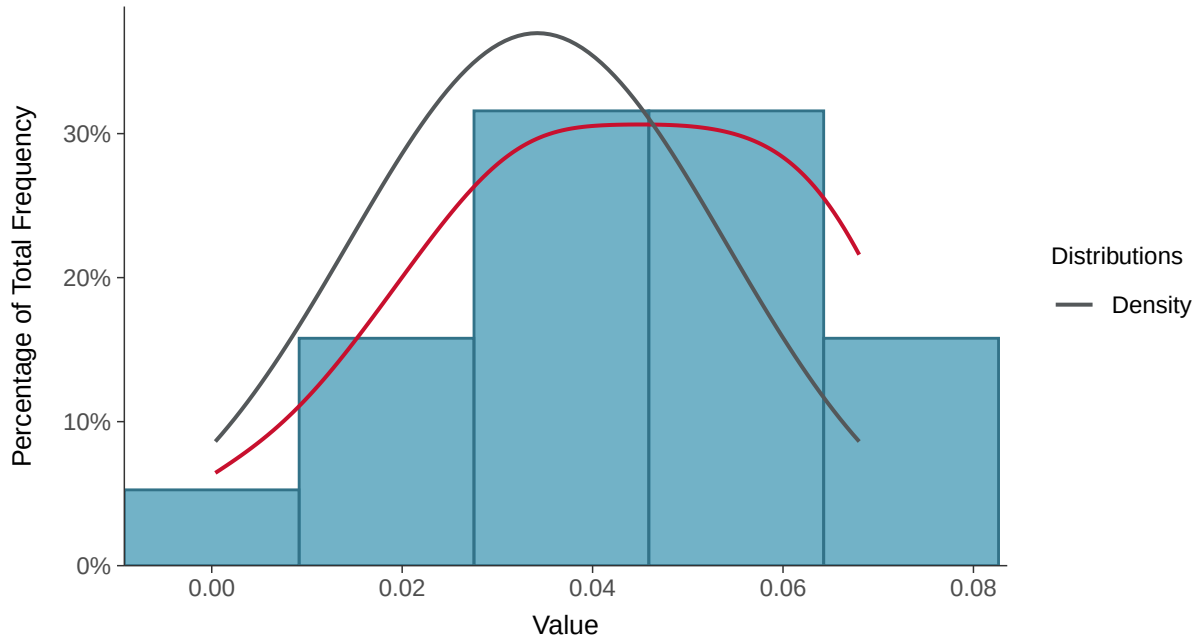
Scatter Plot

Chromium, Total, MW-02 (mg/L)



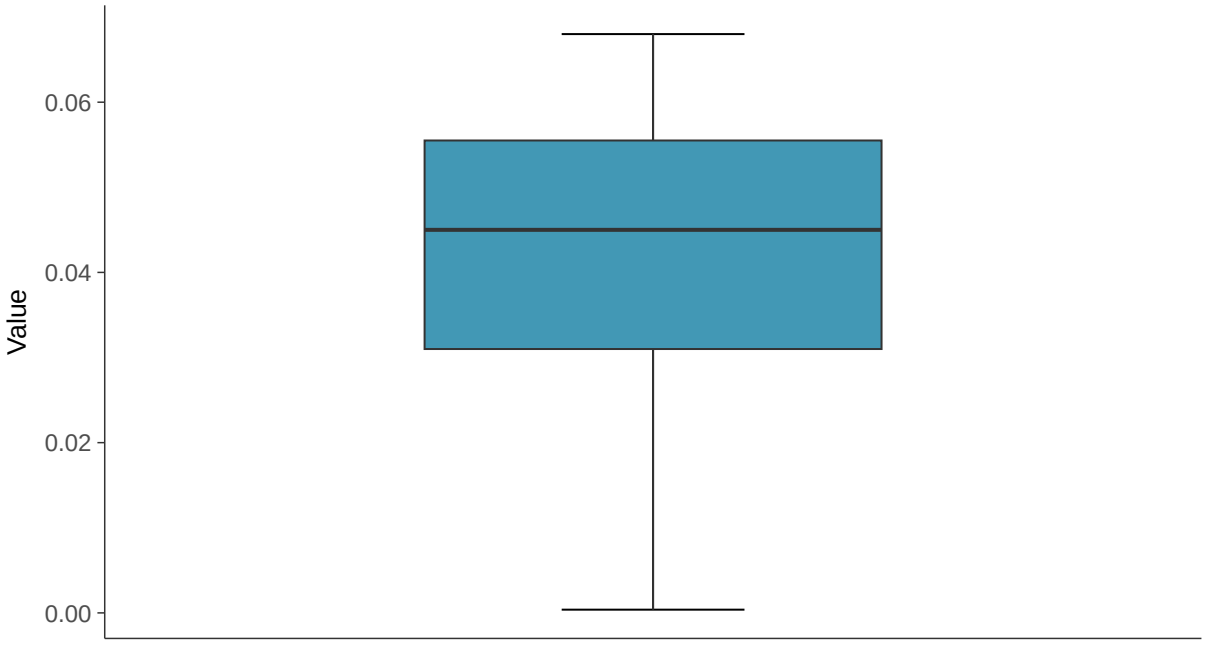
Histogram

Chromium, Total, MW-02 (mg/L)



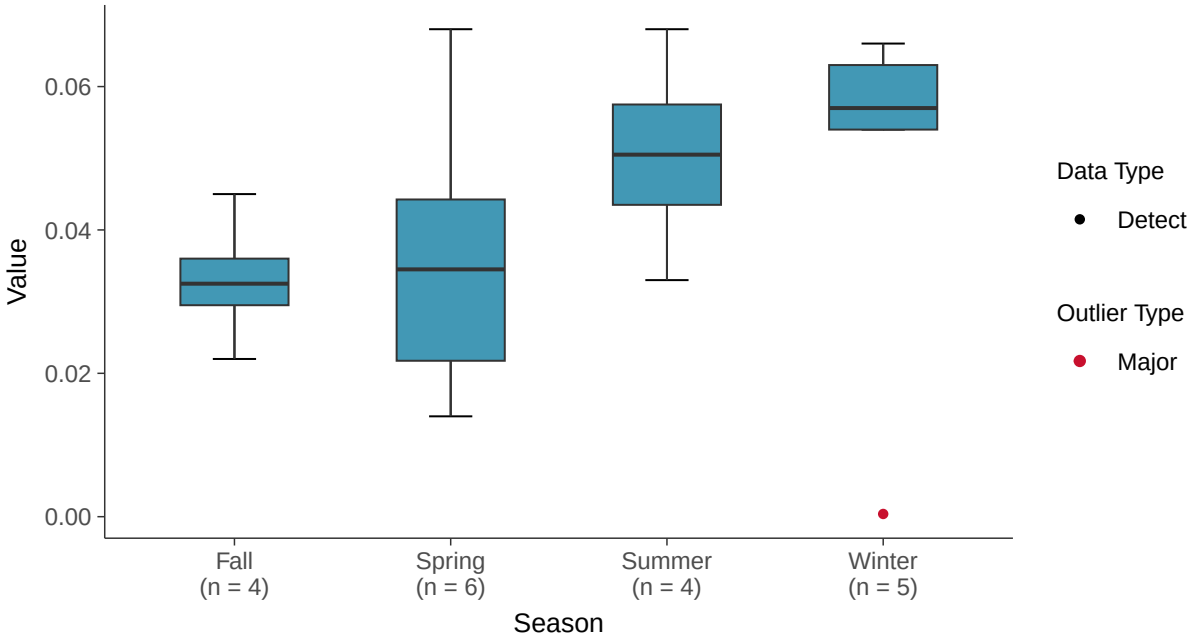
Boxplot

Chromium, Total, MW-02 (mg/L)



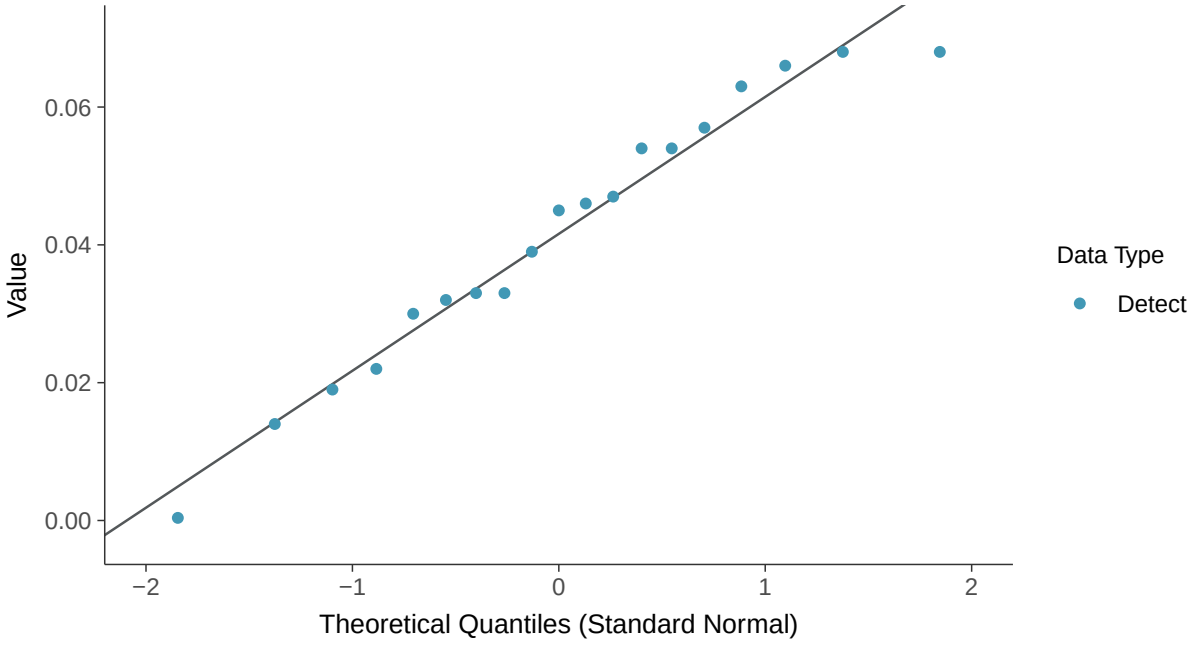
Boxplot by Season

Chromium, Total, MW-02 (mg/L)



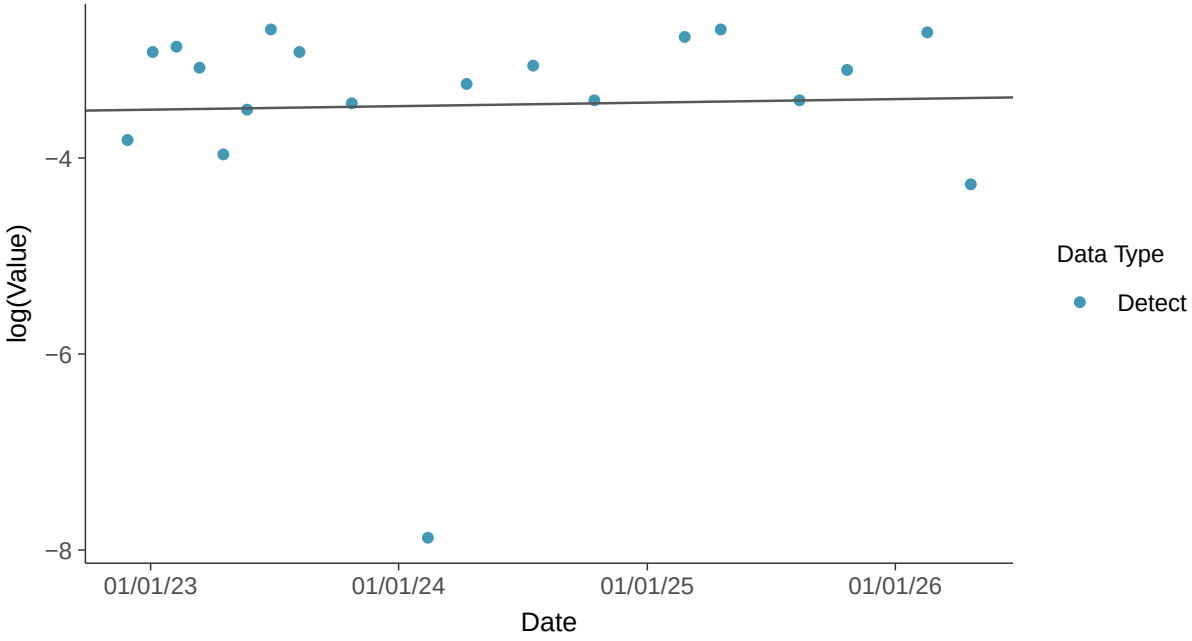
Normal Q-Q plot

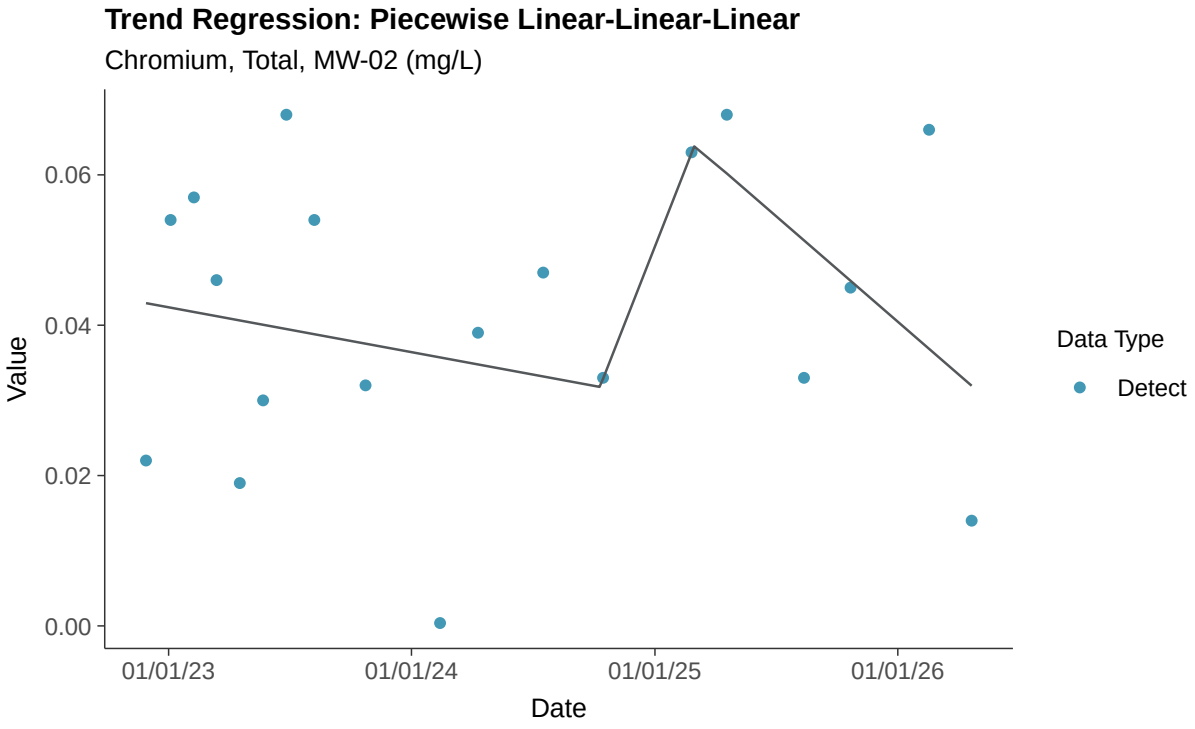
Chromium, Total, MW-02 (mg/L)



Trend Regression: Lognormal MLE

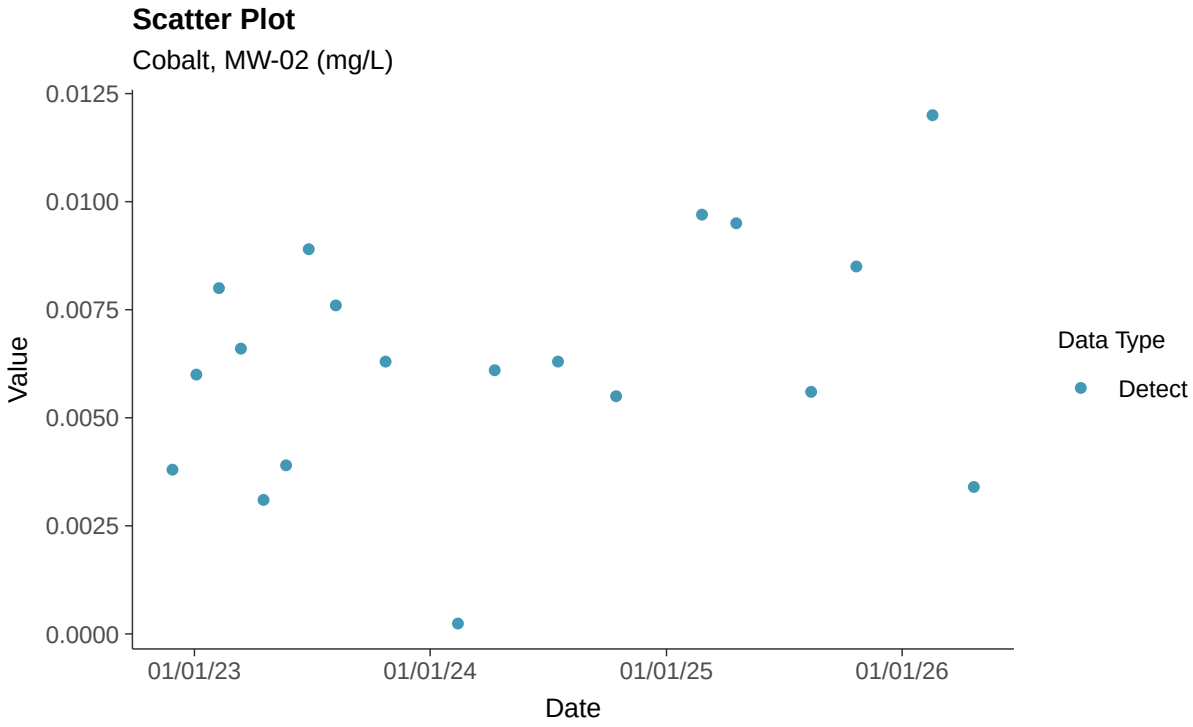
Chromium, Total, MW-02 (mg/L)

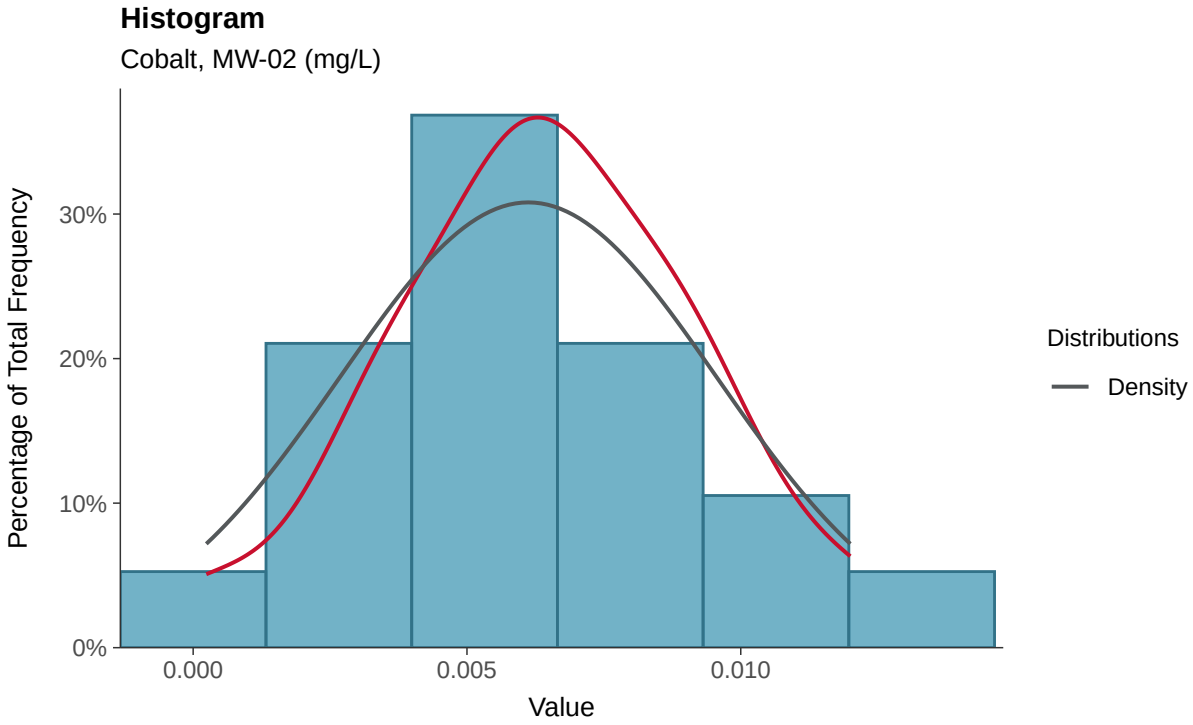


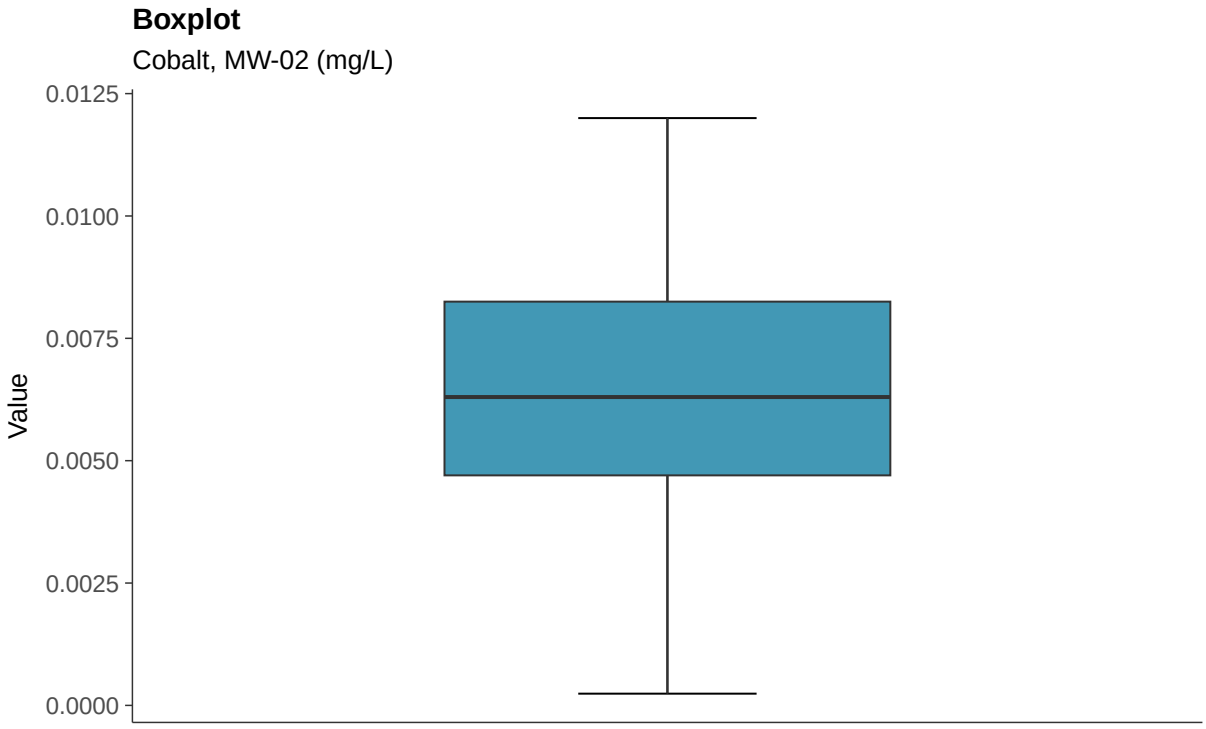

Trend Regression: Piecewise Linear-Linear-Linear
Chromium, Total, MW-02 (mg/L)
Value
0.06
0.04
0.02
0.00
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

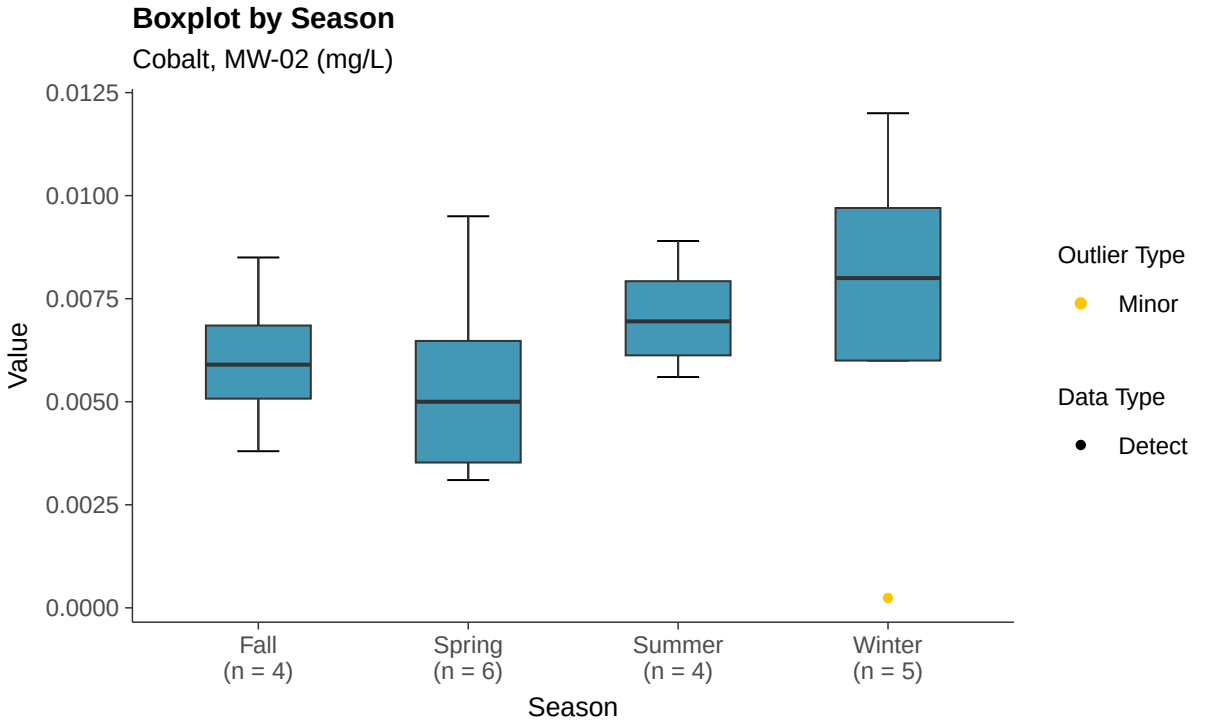
Appendix IV: Cobalt, MW-02

ID: 12_2_4_110



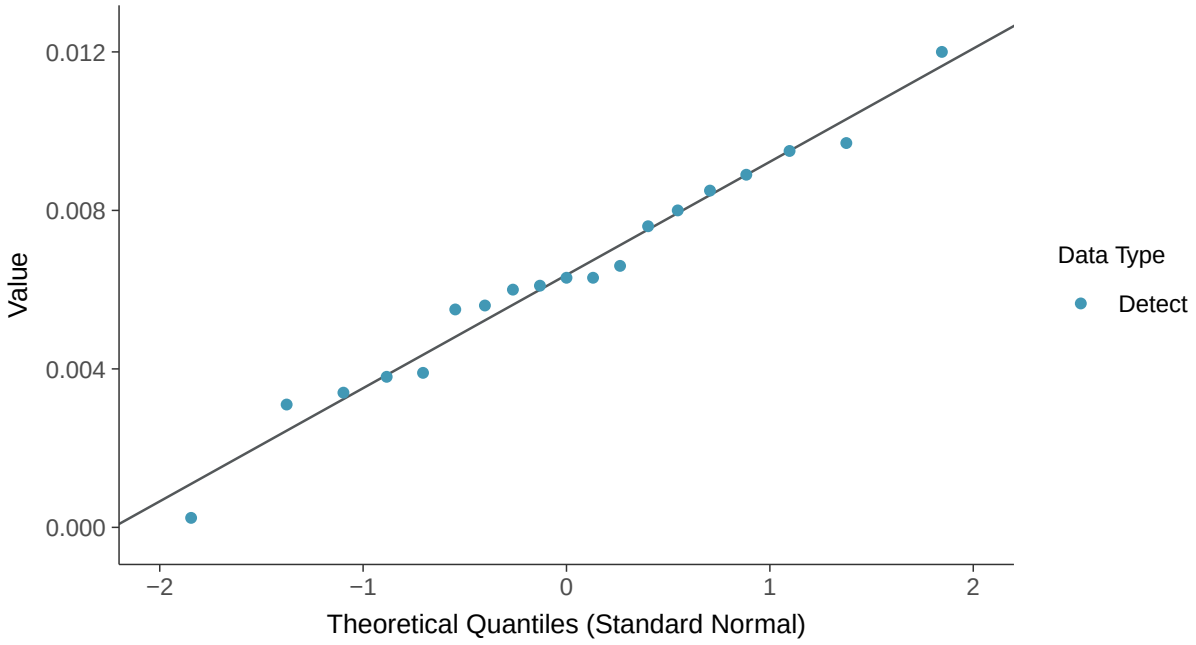



Boxplot
Cobalt, MW-02 (mg/L)
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
Value


Boxplot by Season
Cobalt, MW-02 (mg/L)
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
Value
Fall
(n = 4)
Spring
(n = 6)
Summer
(n = 4)
Winter
(n = 5)
Season
Outlier Type
Minor
Data Type
Detect

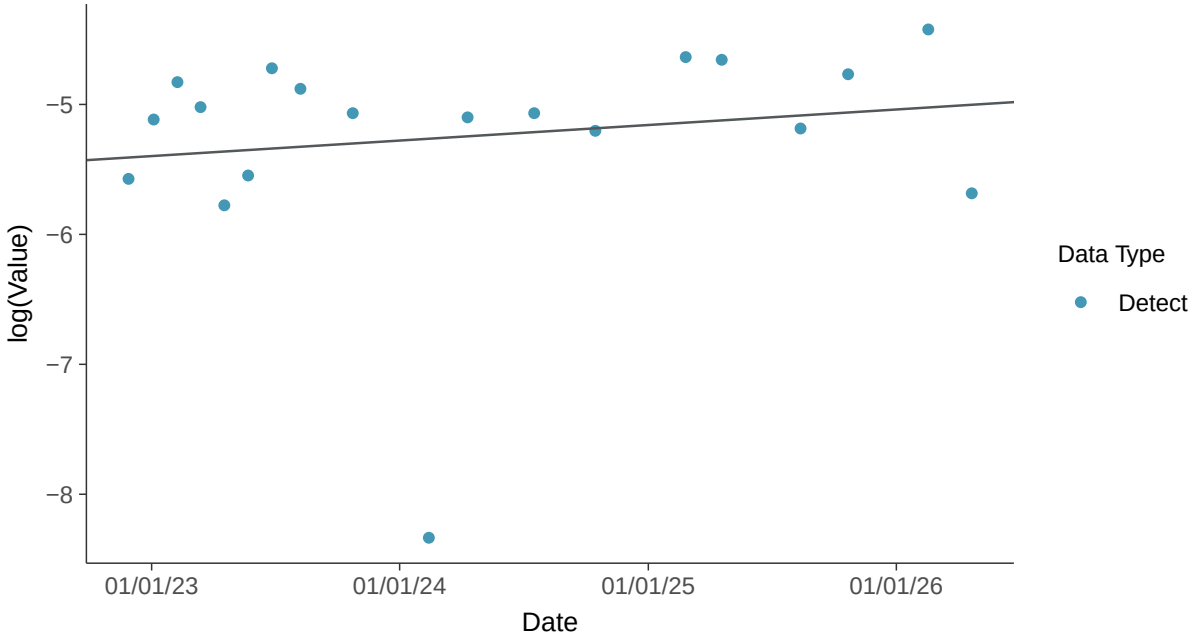
Normal Q-Q plot

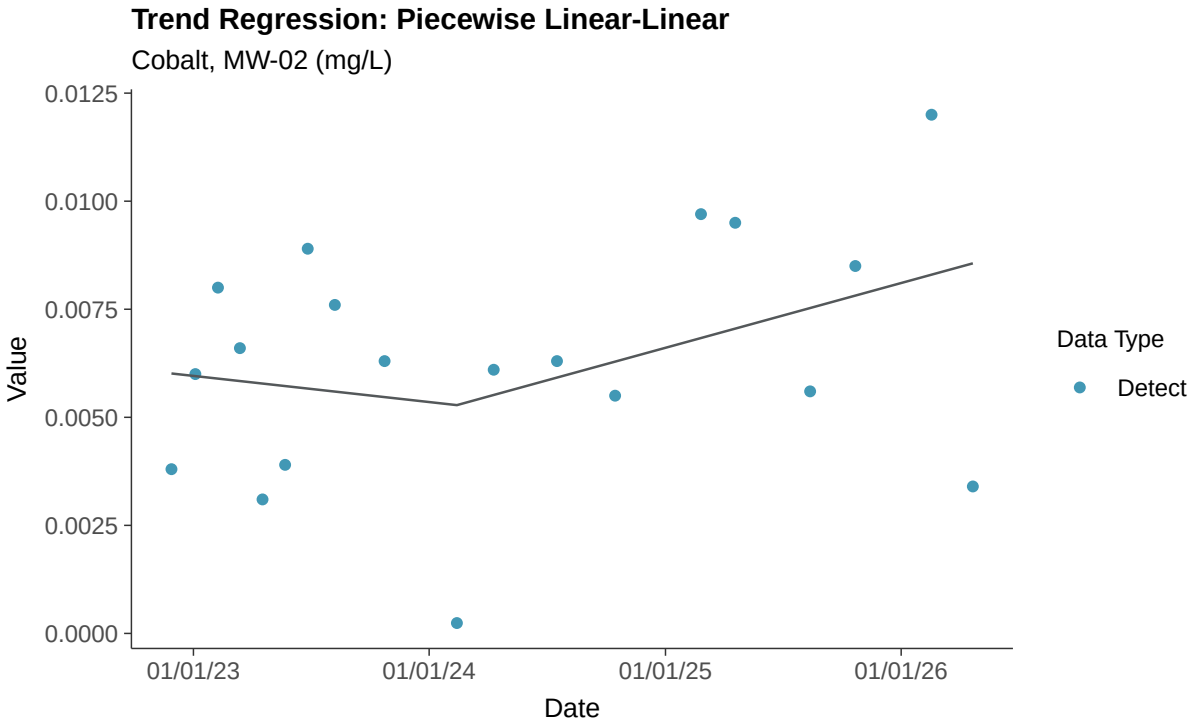
Cobalt, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Cobalt, MW-02 (mg/L)



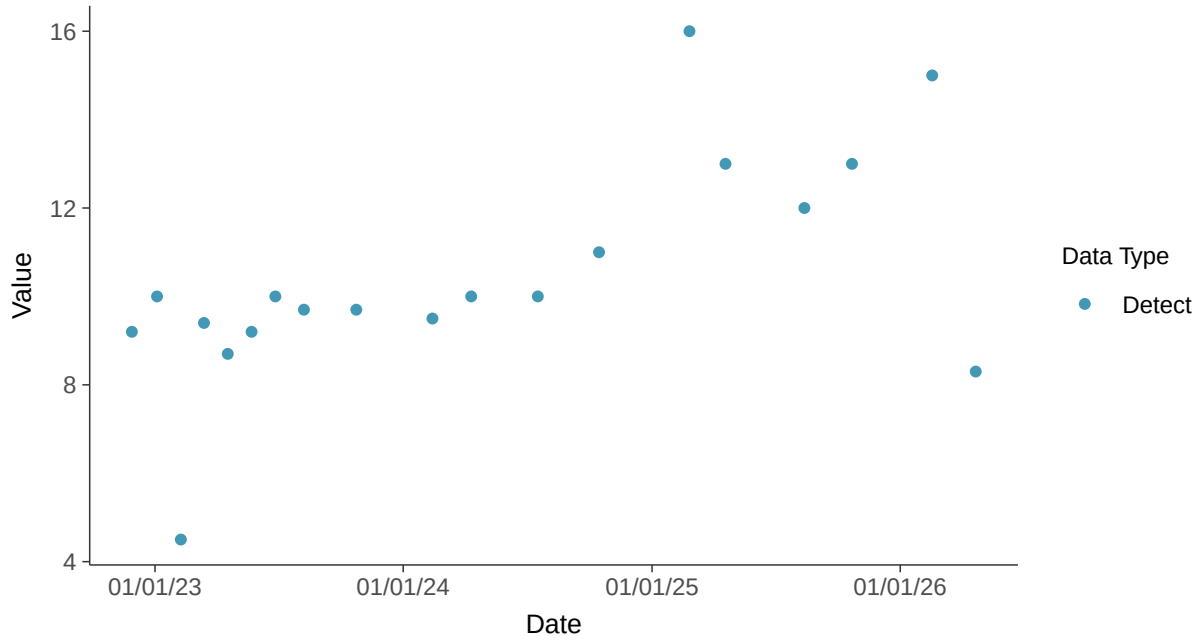

Trend Regression: Piecewise Linear-Linear
Cobalt, MW-02 (mg/L)
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Fluoride (App IV), MW-02

ID: 12_2_4_113

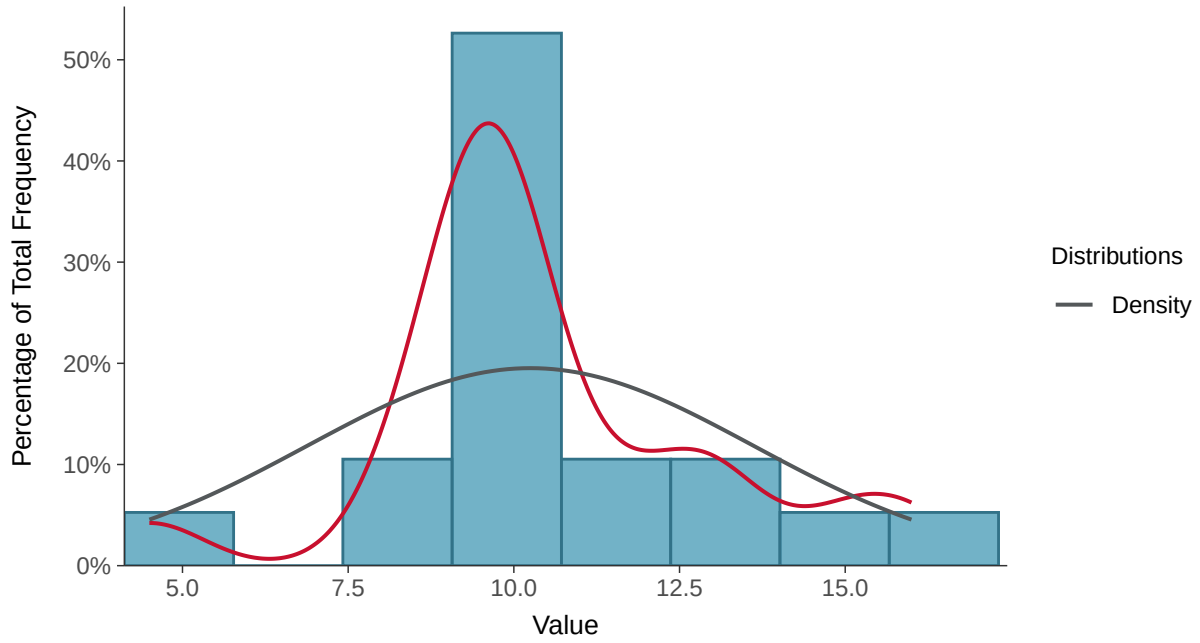
Scatter Plot

Fluoride (App IV), MW-02 (mg/L)



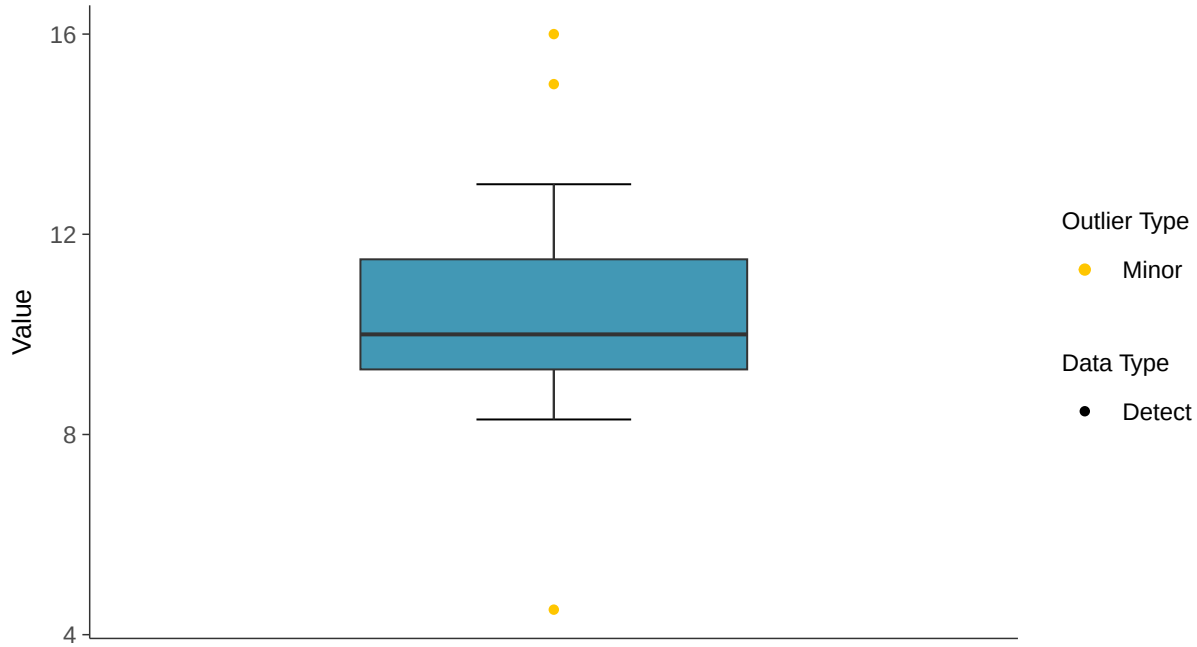
Histogram

Fluoride (App IV), MW-02 (mg/L)



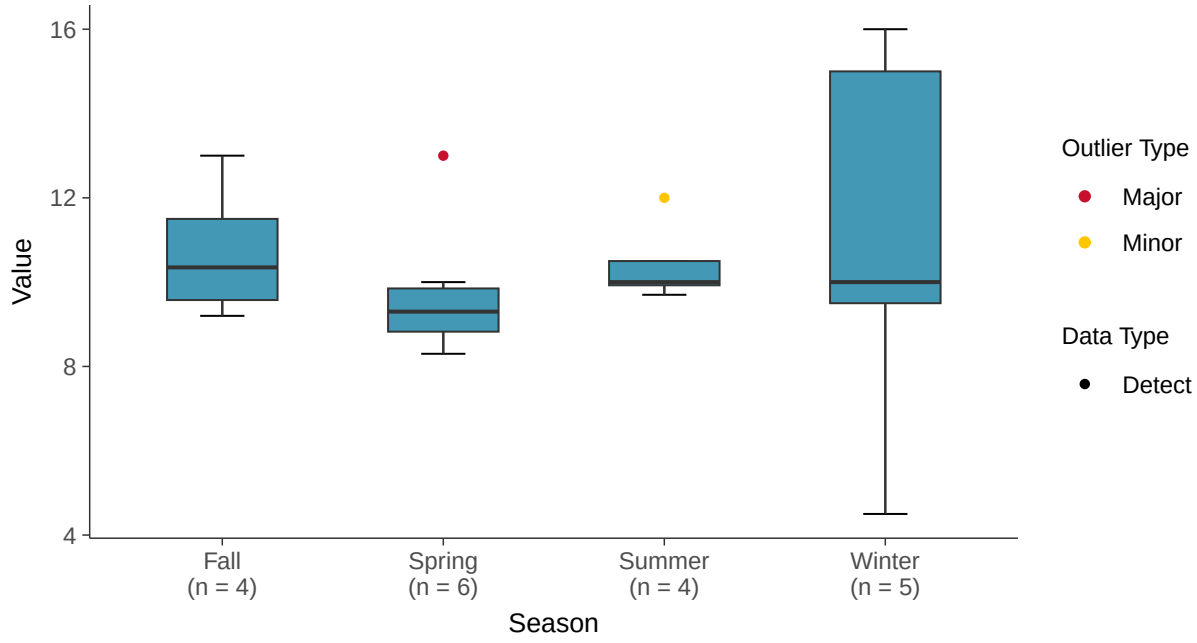
Boxplot

Fluoride (App IV), MW-02 (mg/L)



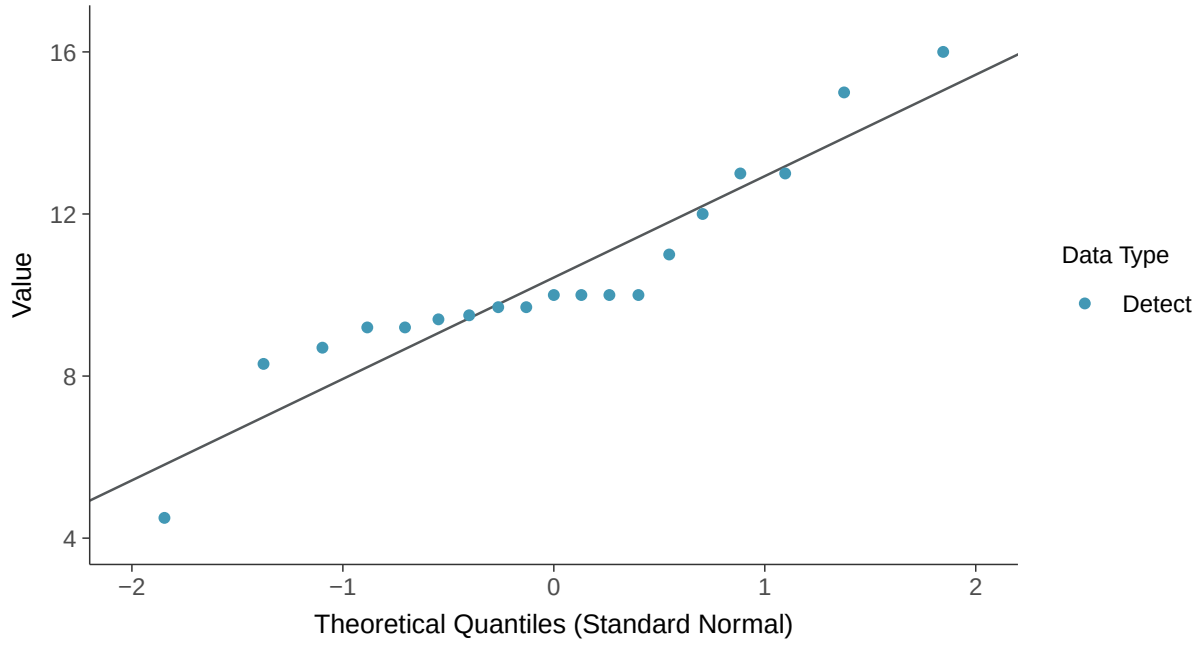
Boxplot by Season

Fluoride (App IV), MW-02 (mg/L)



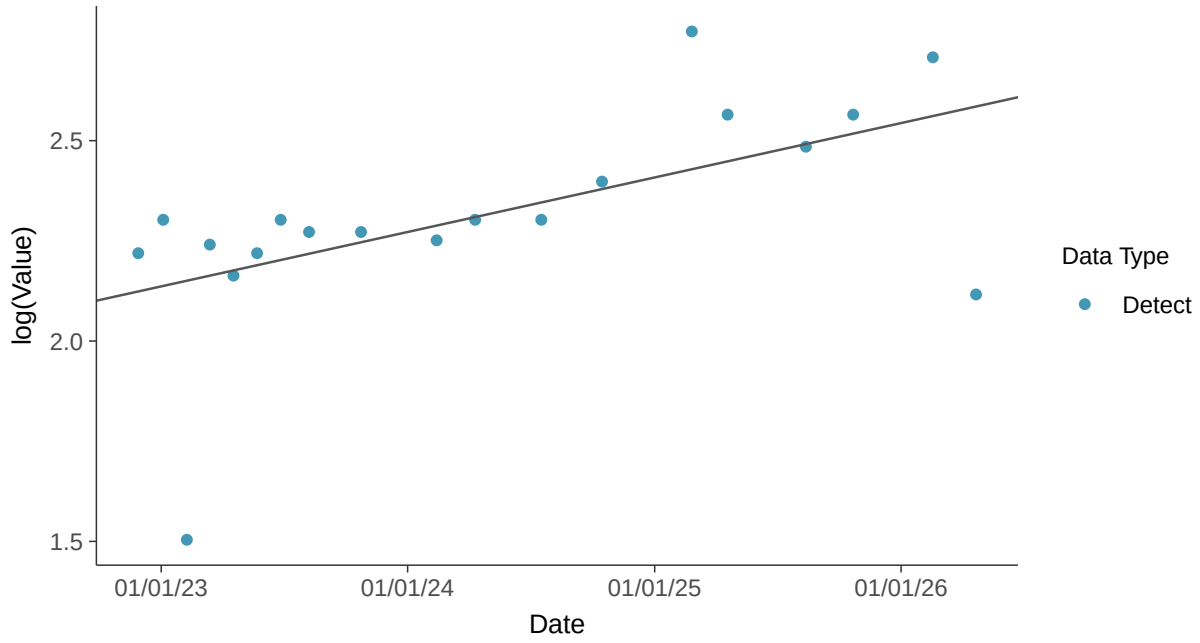
Normal Q-Q plot

Fluoride (App IV), MW-02 (mg/L)



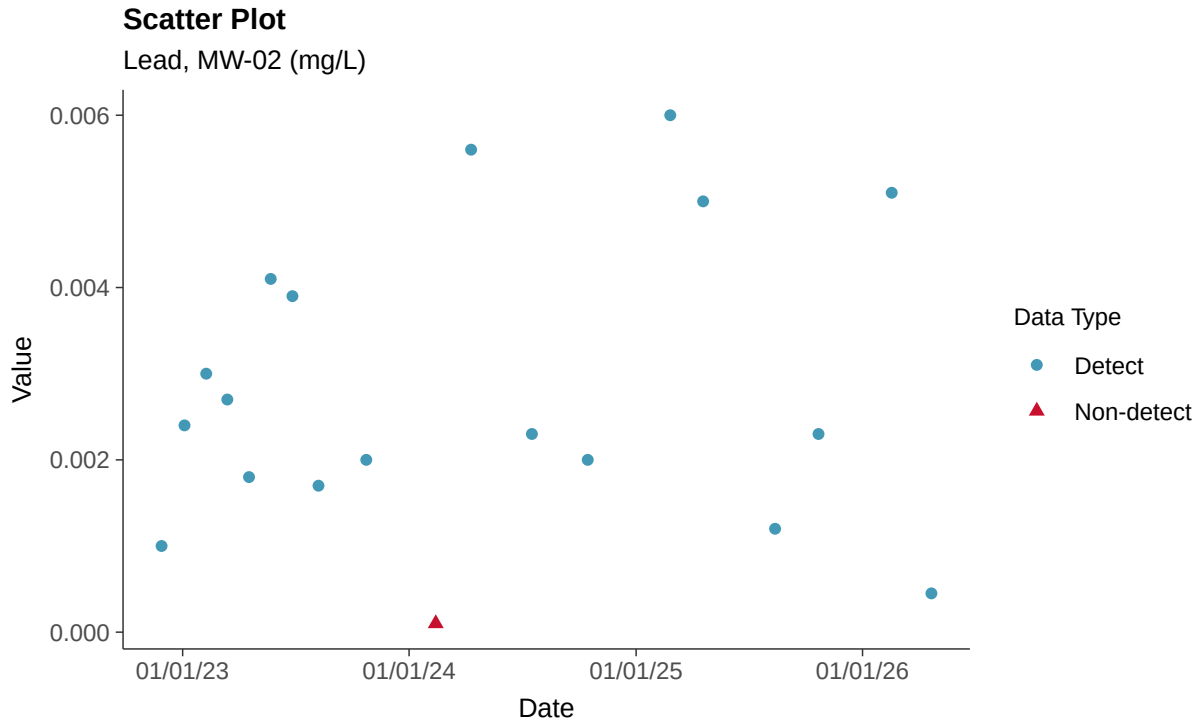
Trend Regression: Lognormal MLE

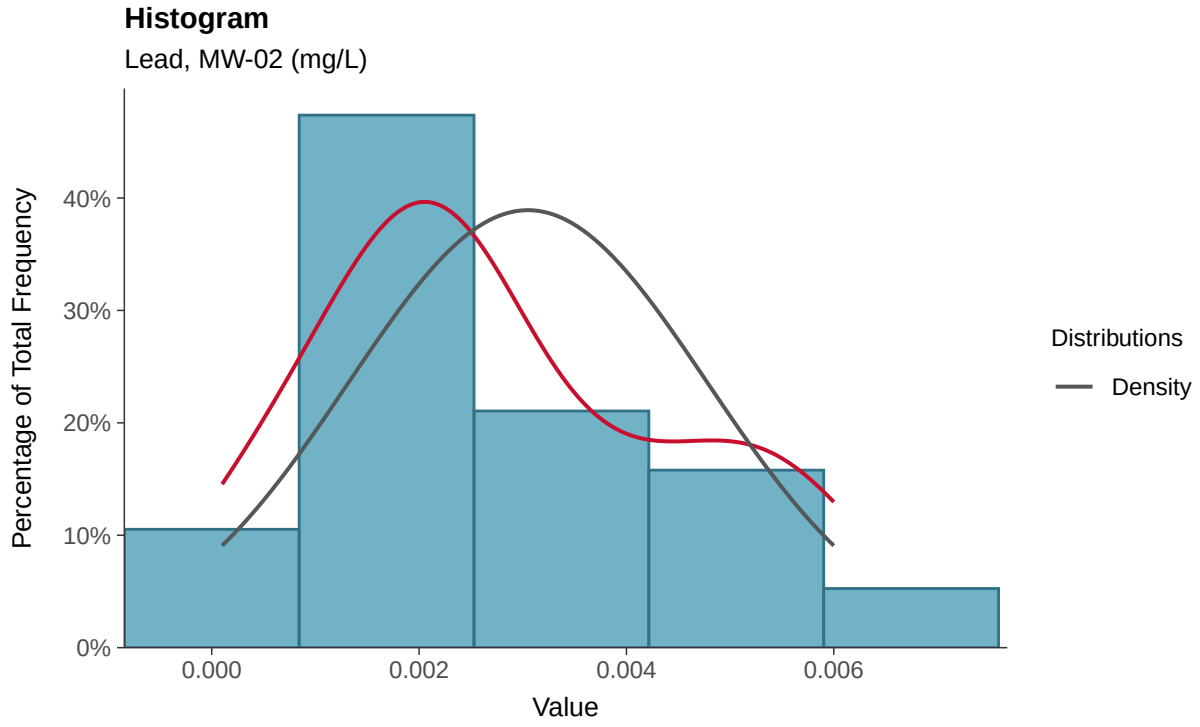
Fluoride (App IV), MW-02 (mg/L)



Appendix IV: Lead, MW-02

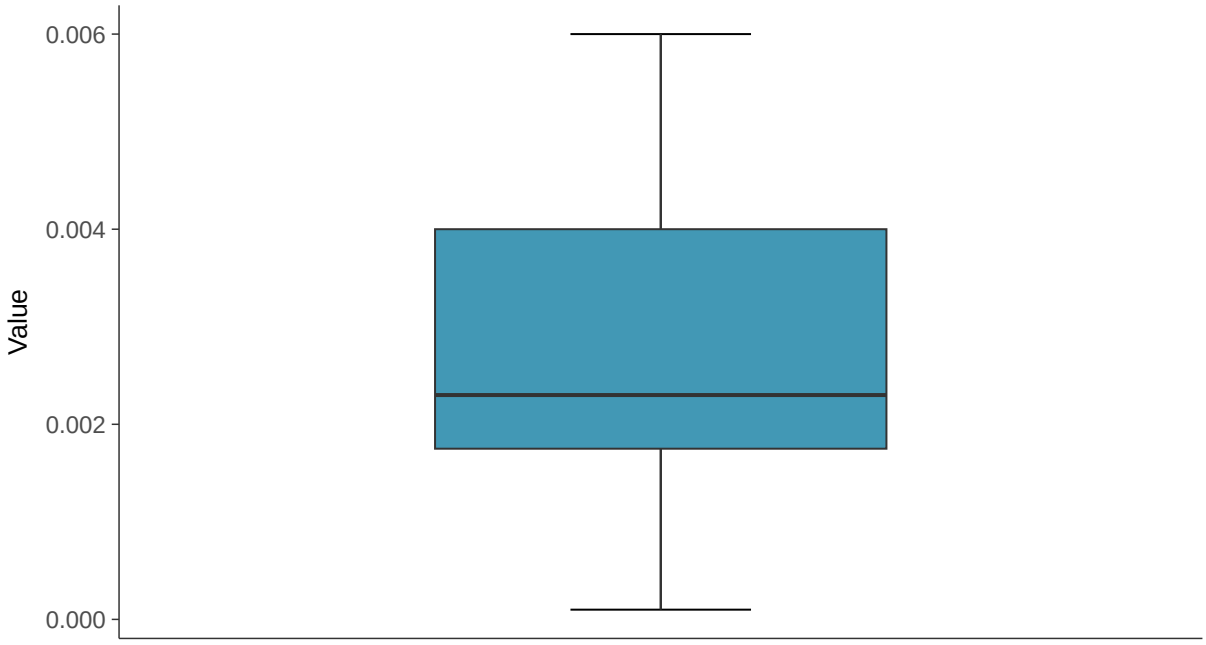
ID: 12_2_4_115





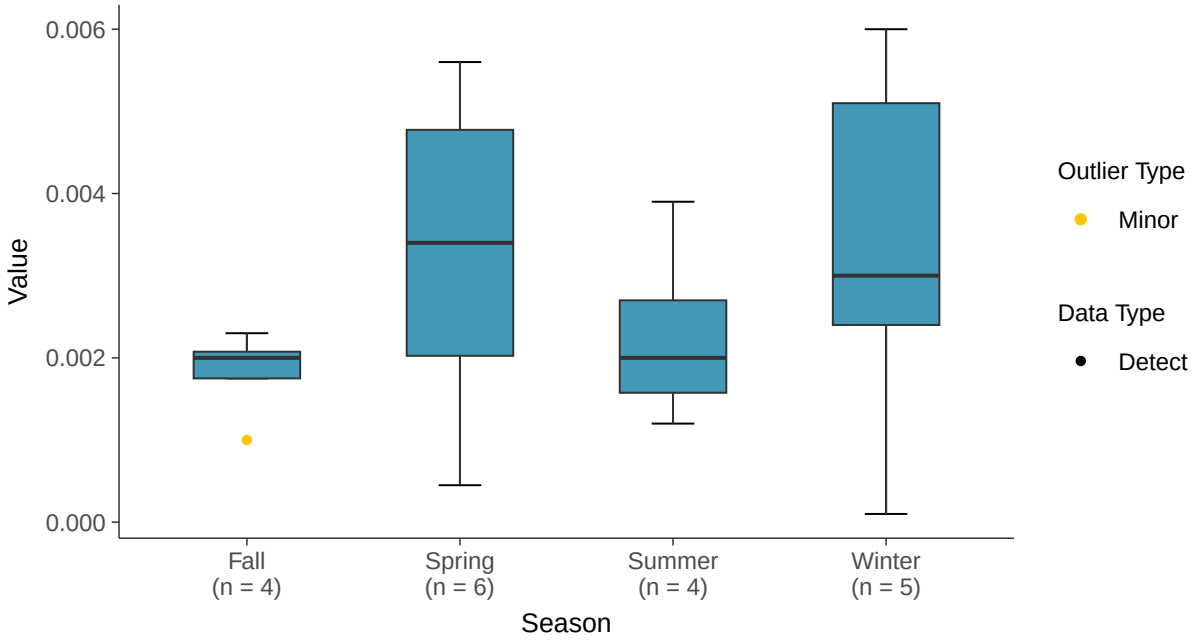
Boxplot

Lead, MW-02 (mg/L)



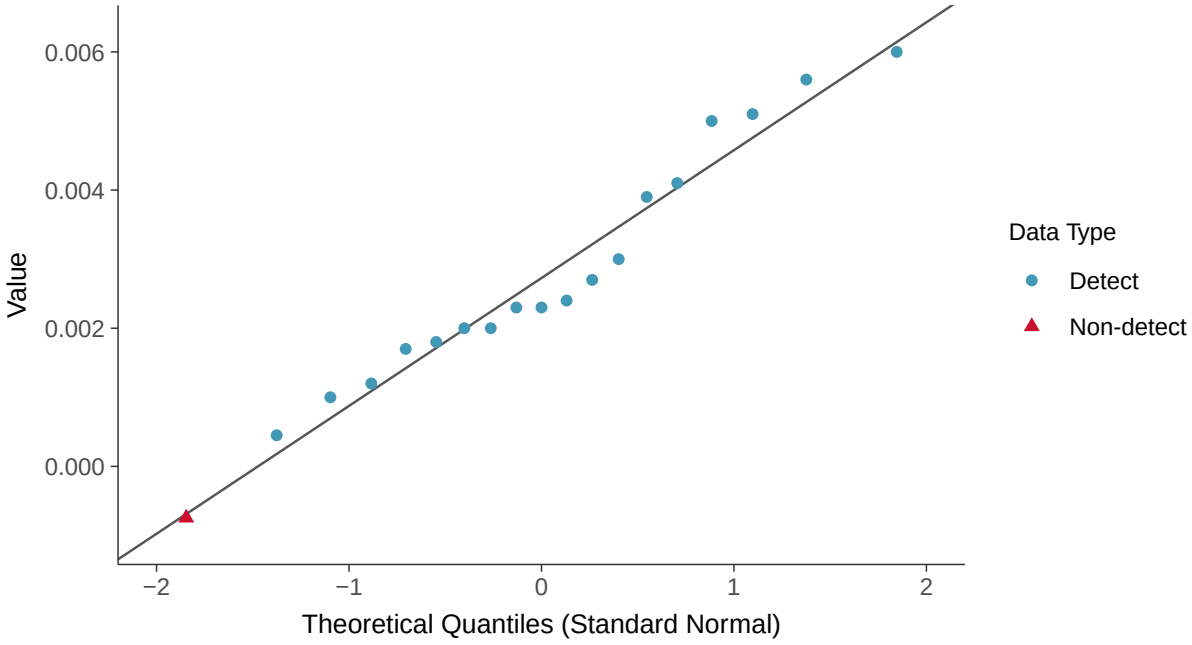
Boxplot by Season

Lead, MW-02 (mg/L)



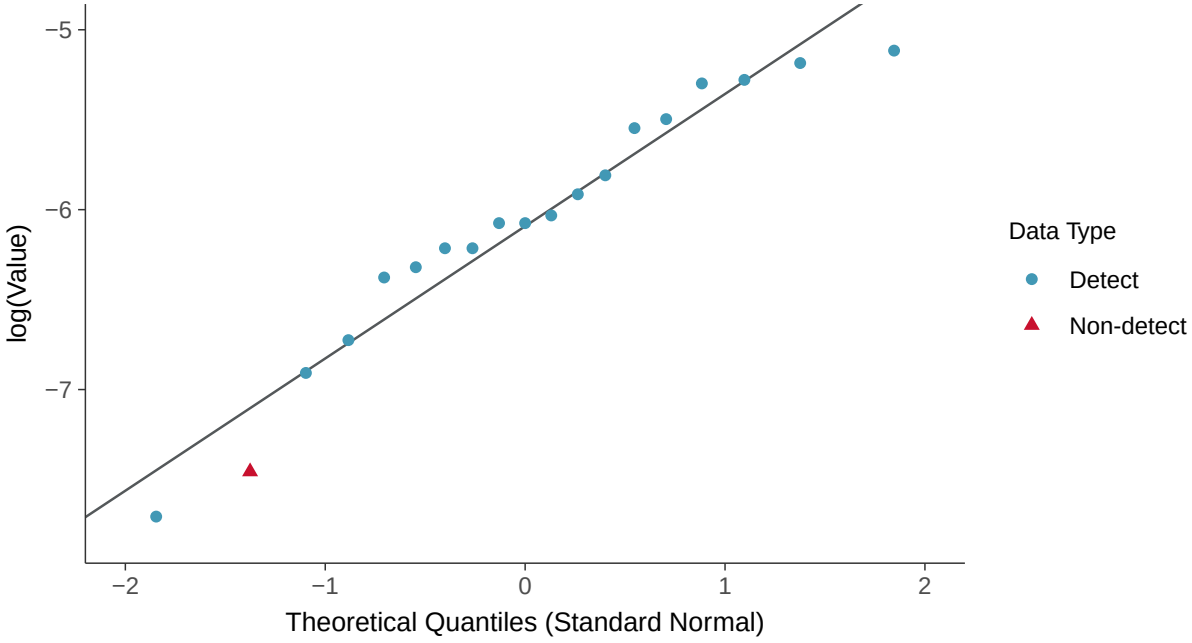
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-02 (mg/L)



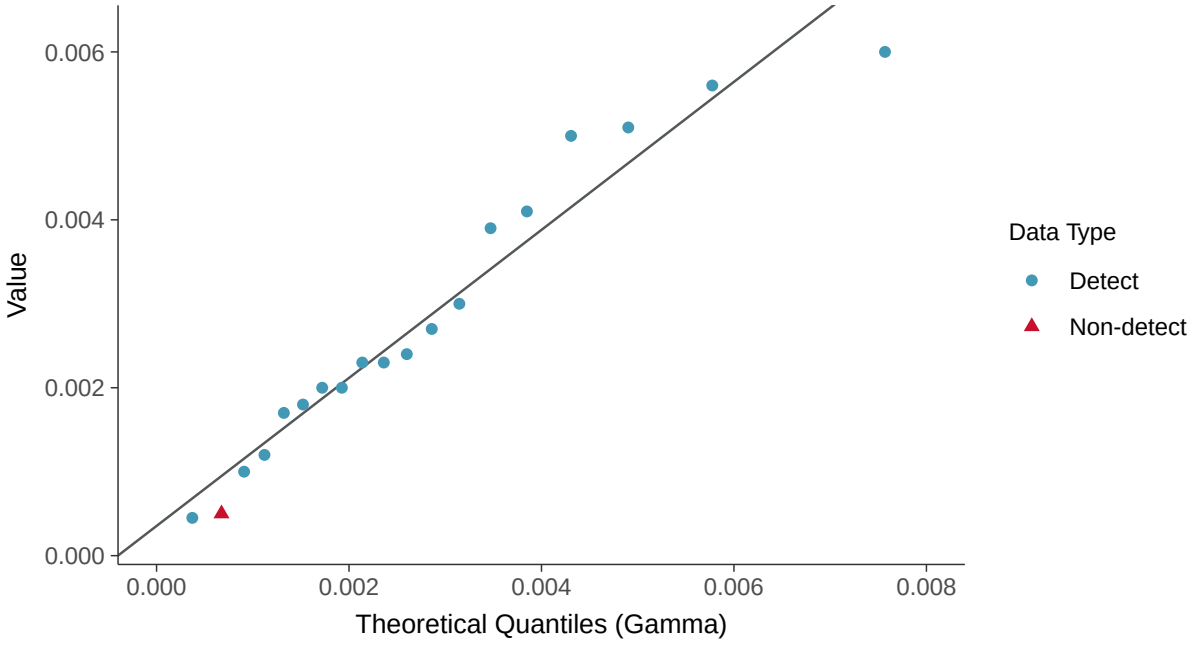
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-02 (mg/L)



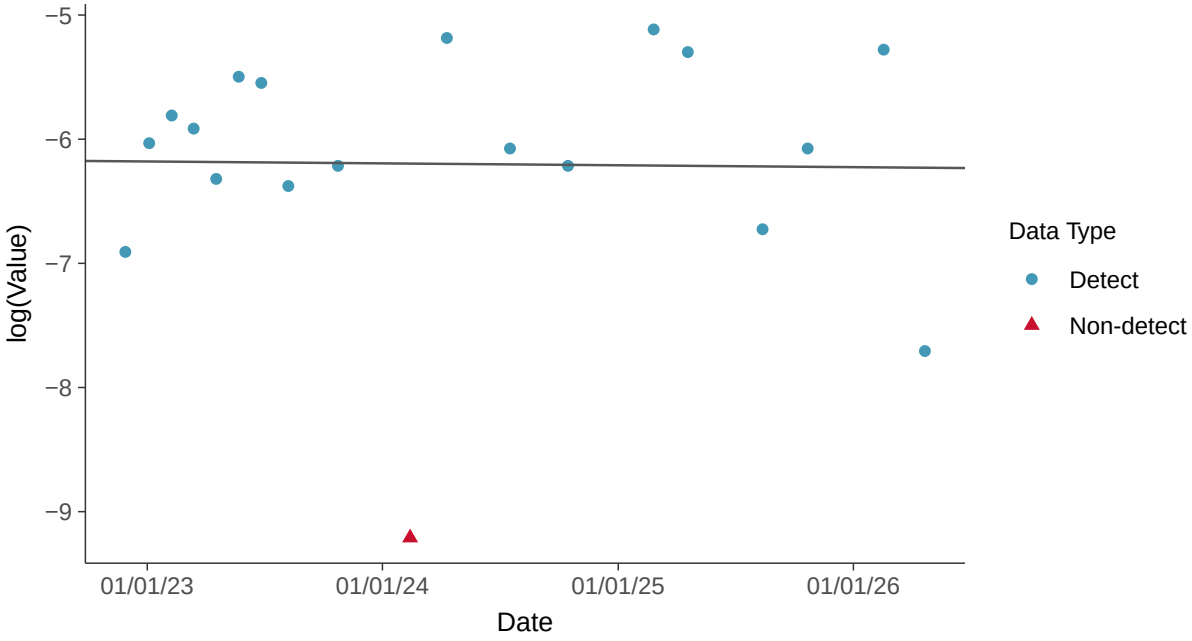
Gamma Q-Q plot using ROS Imputed Estimates

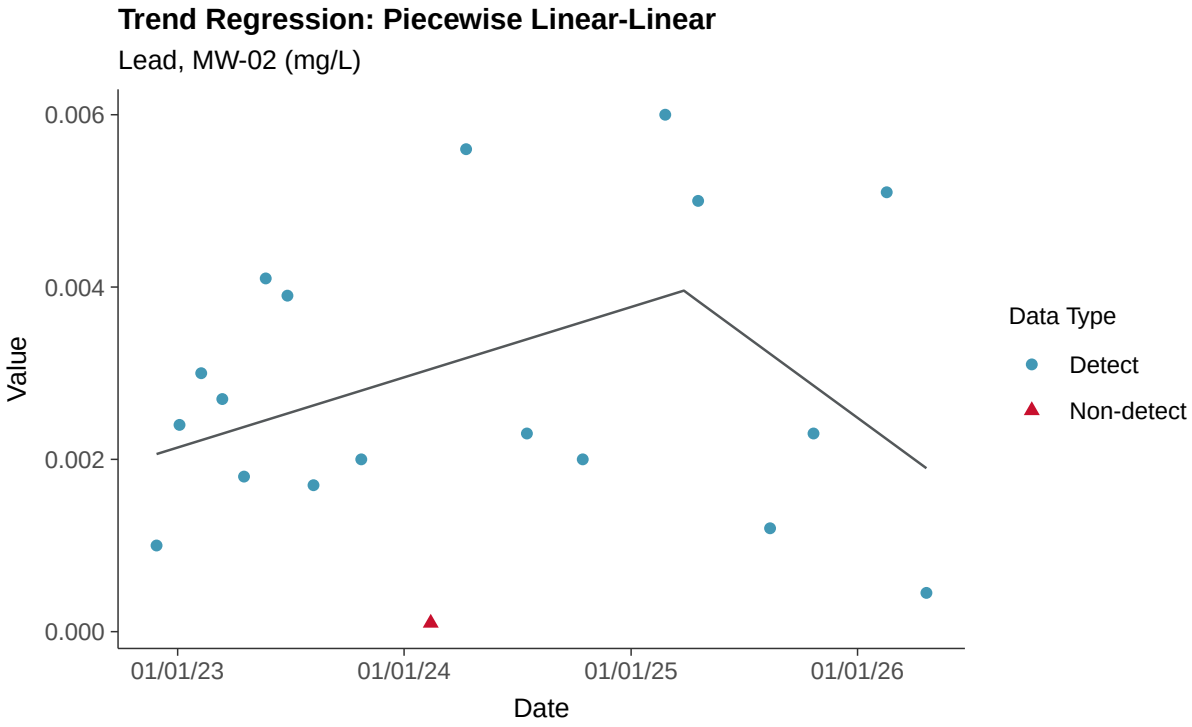
Lead, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Lead, MW-02 (mg/L)



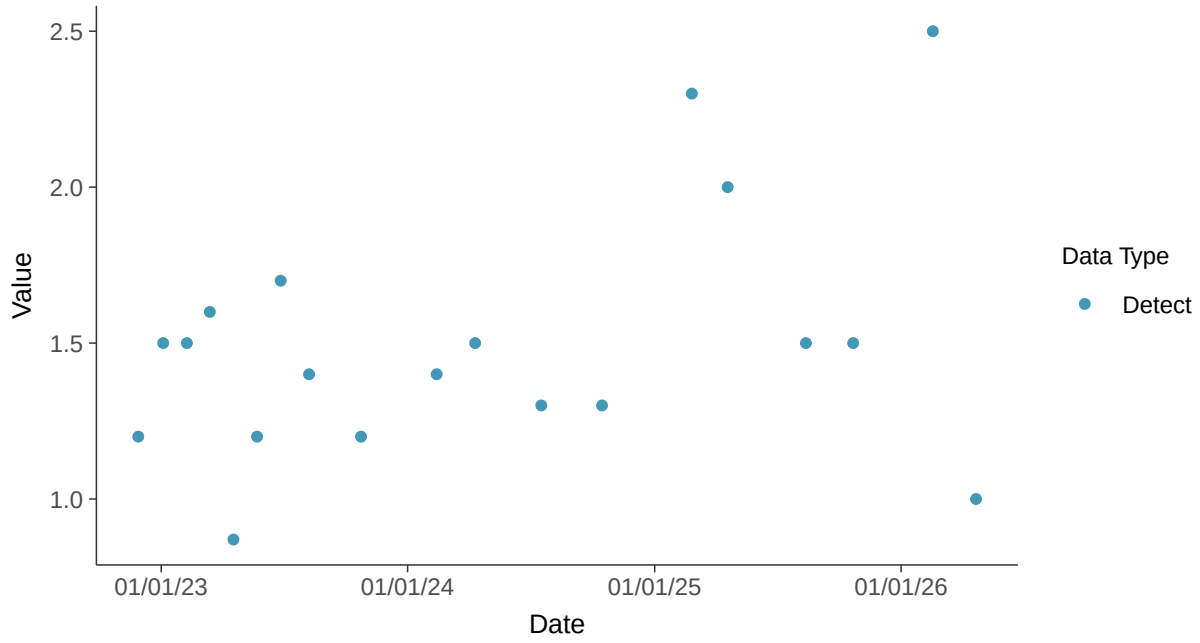

Trend Regression: Piecewise Linear-Linear
Lead, MW-02 (mg/L)
Value
0.006
0.004
0.002
0.000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Lithium, MW-02

ID: 12_2_4_116

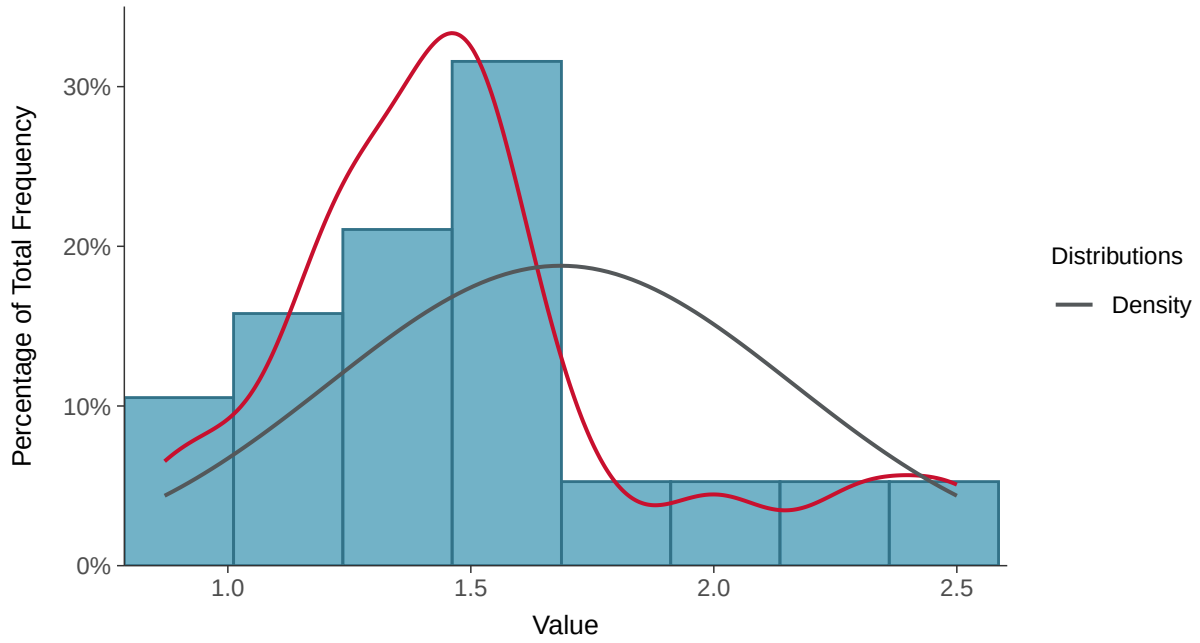
Scatter Plot

Lithium, MW-02 (mg/L)



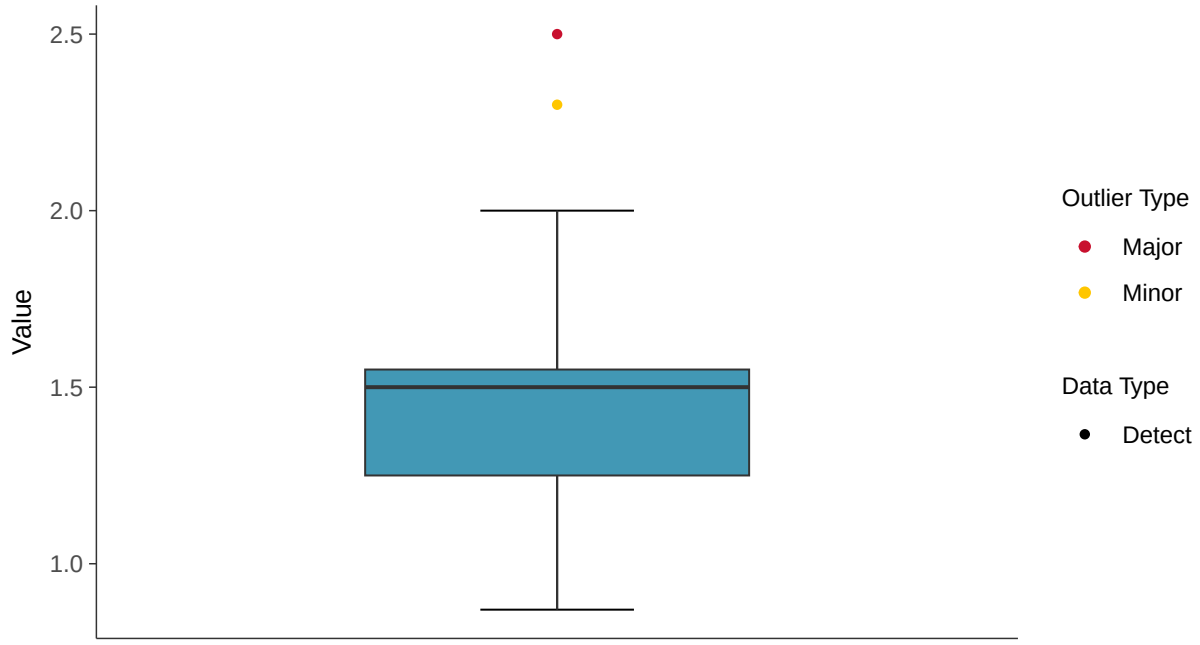
Histogram

Lithium, MW-02 (mg/L)



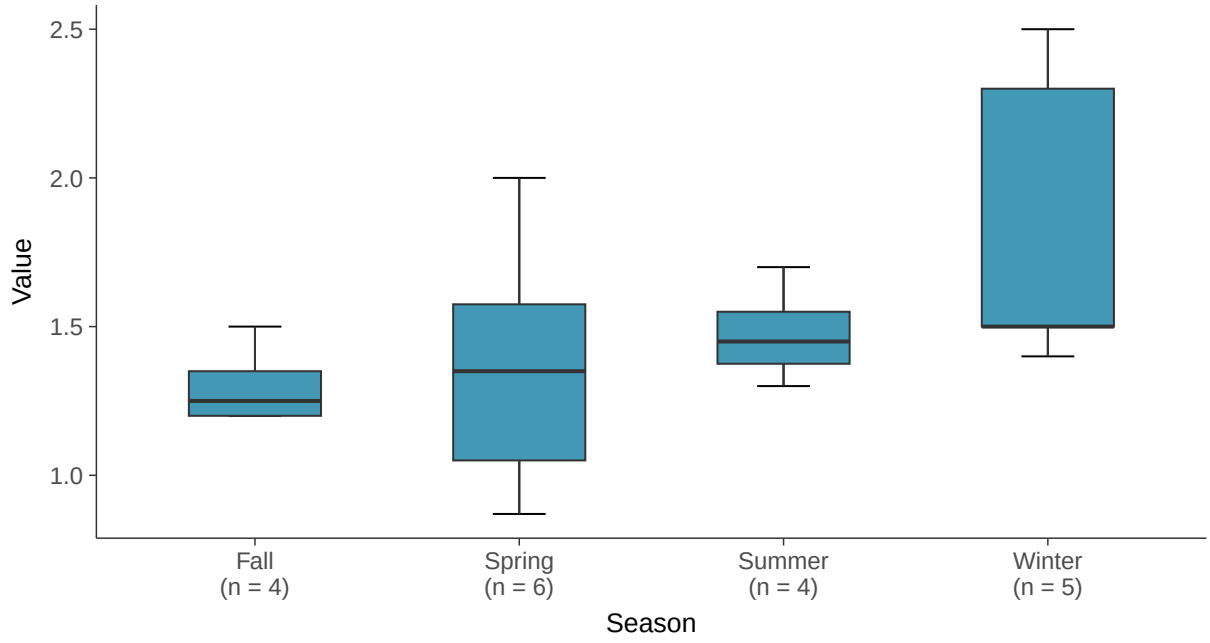
Boxplot

Lithium, MW-02 (mg/L)



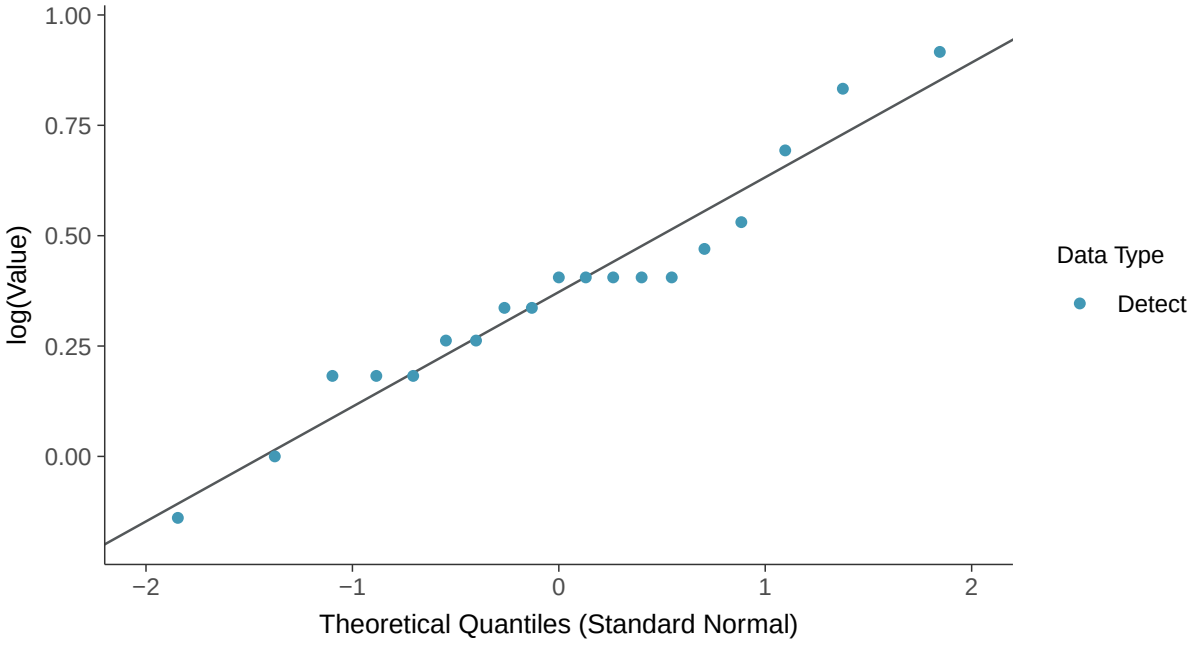
Boxplot by Season

Lithium, MW-02 (mg/L)



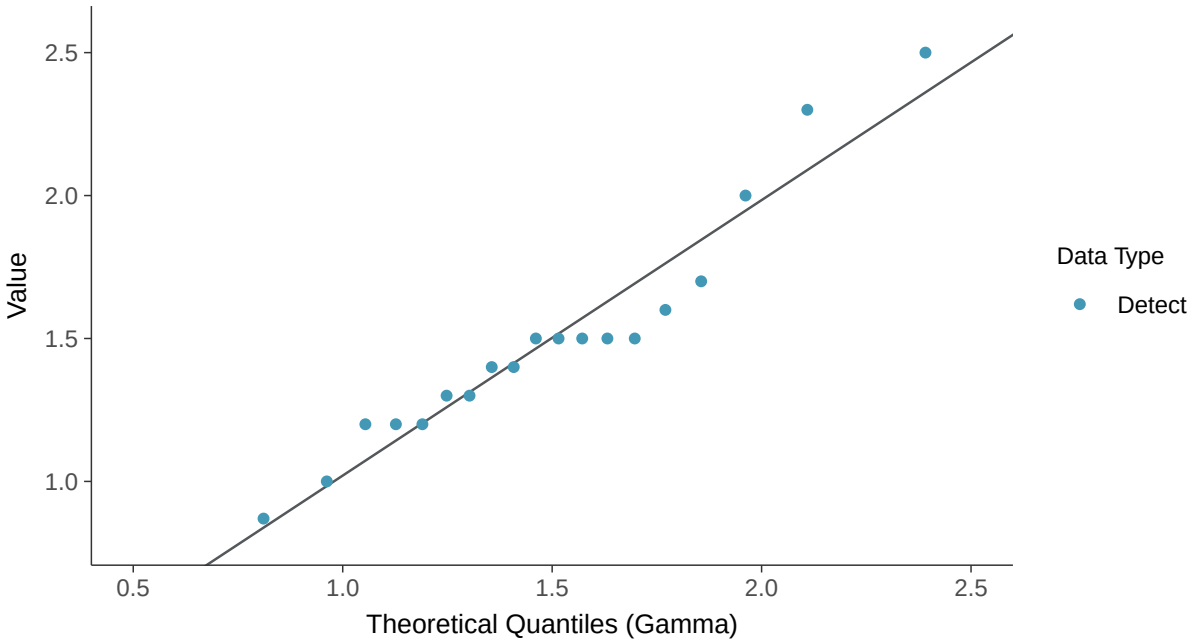
Lognormal Q-Q plot

Lithium, MW-02 (mg/L)



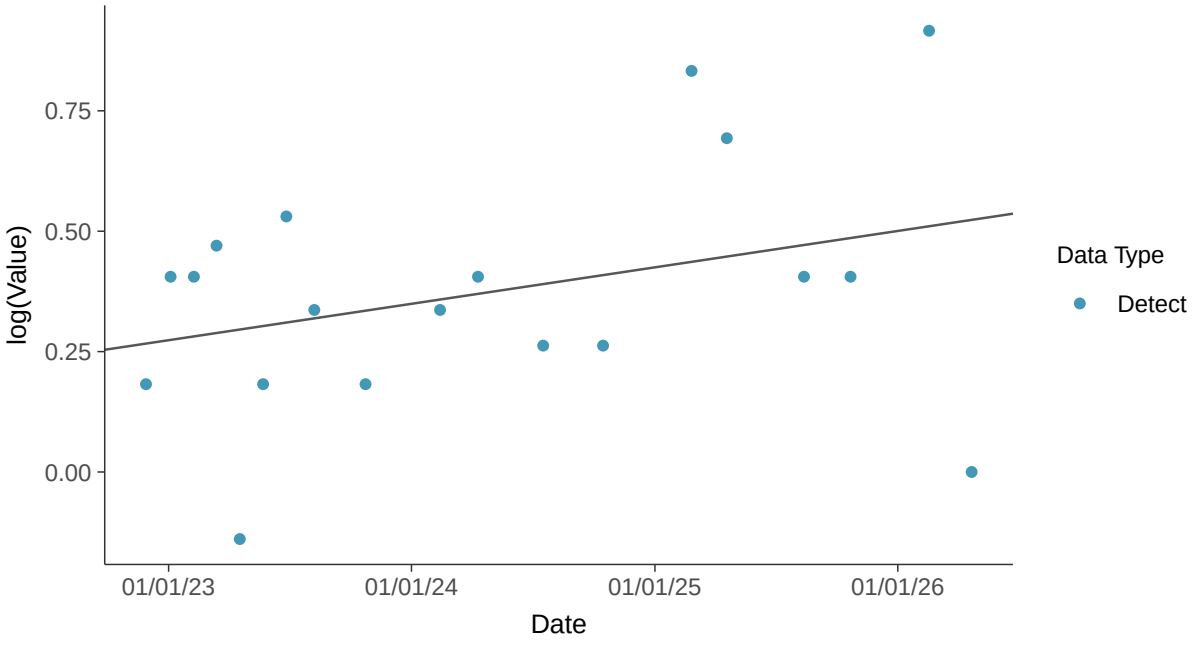
Gamma Q-Q plot

Lithium, MW-02 (mg/L)



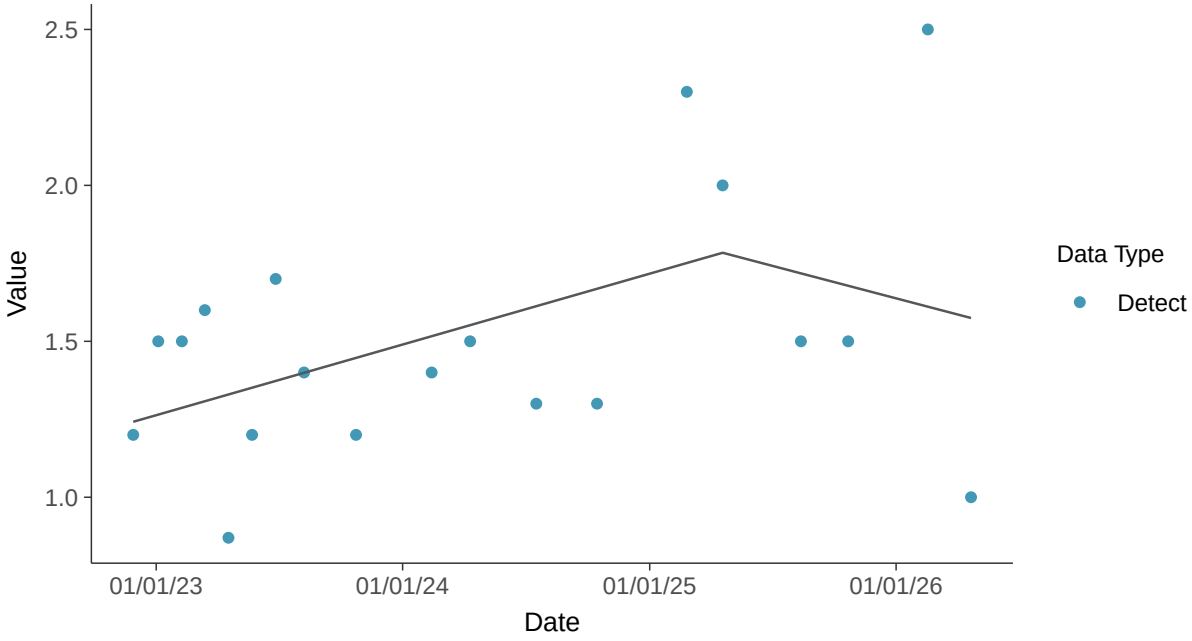
Trend Regression: Lognormal MLE

Lithium, MW-02 (mg/L)



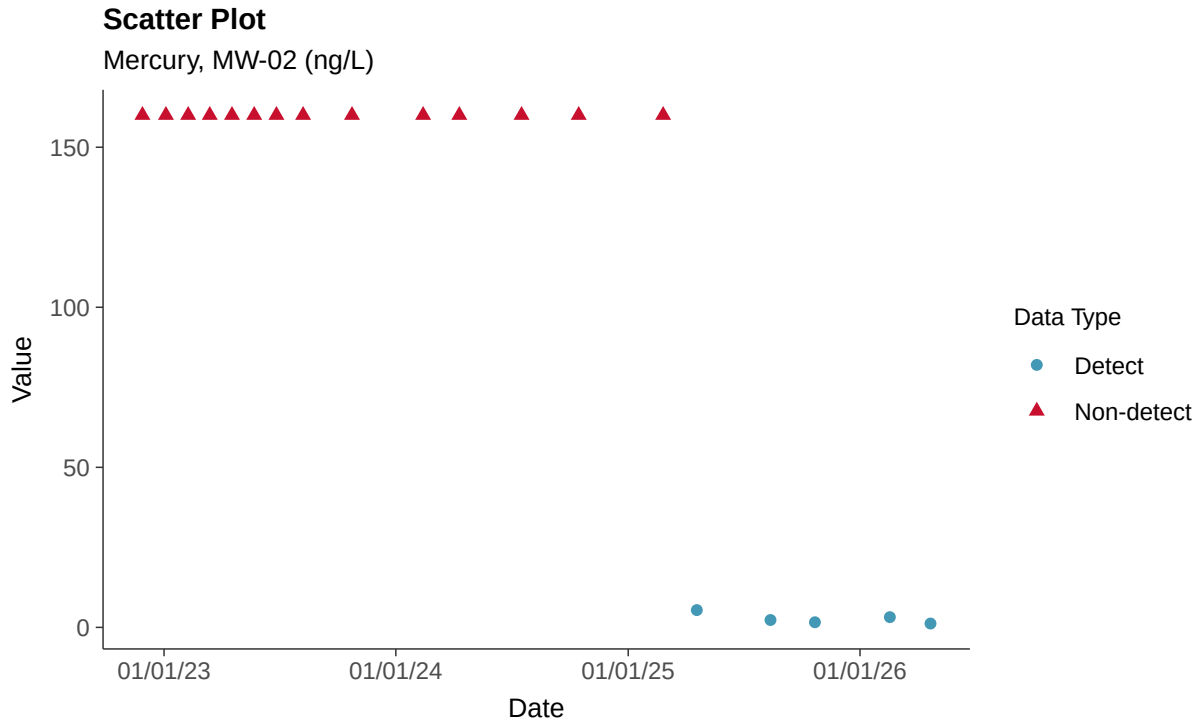
Trend Regression: Piecewise Linear-Linear

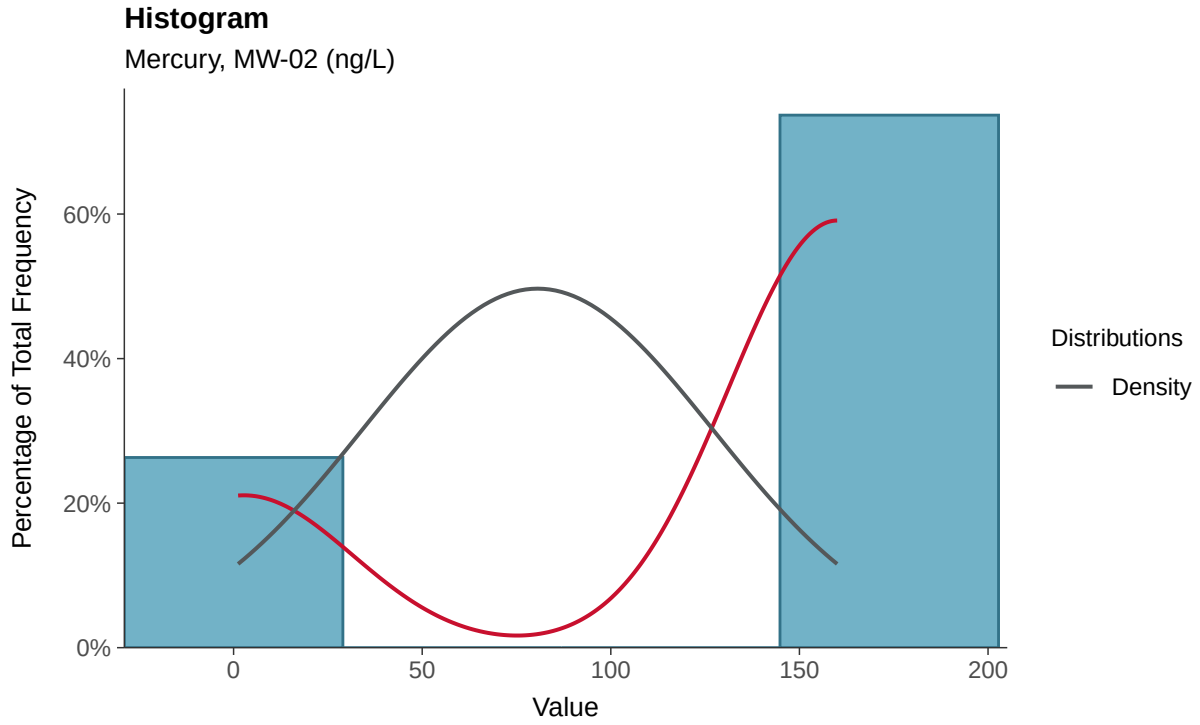
Lithium, MW-02 (mg/L)



Appendix IV: Mercury, MW-02

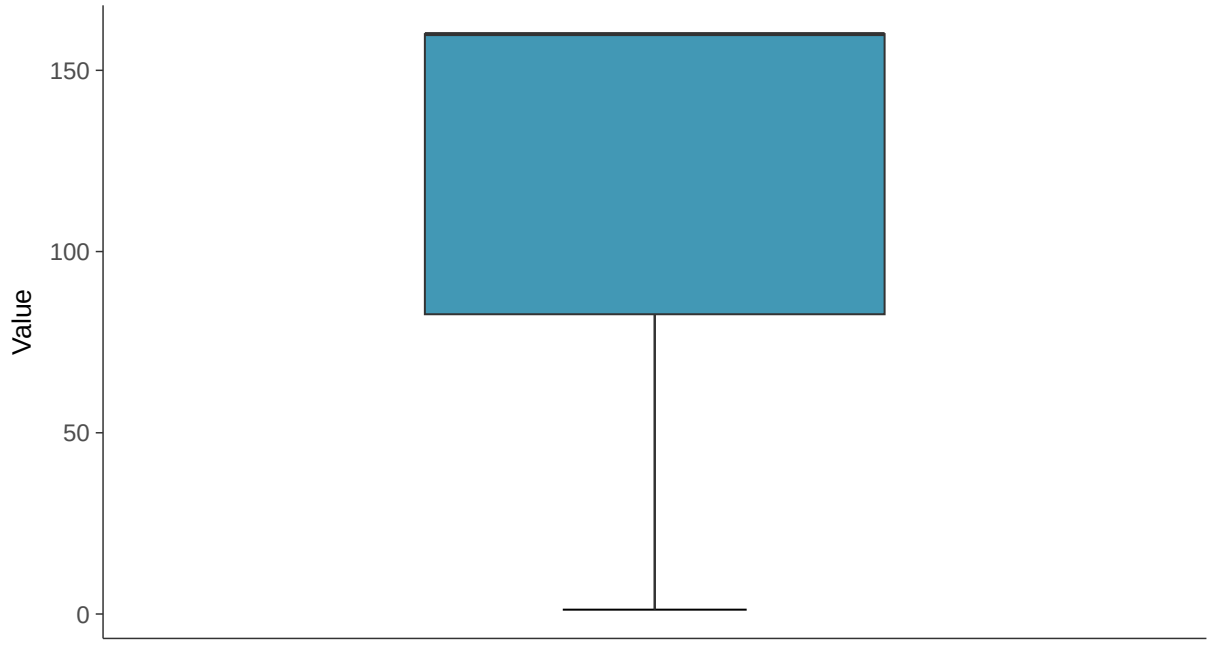
ID: 12_2_4_117





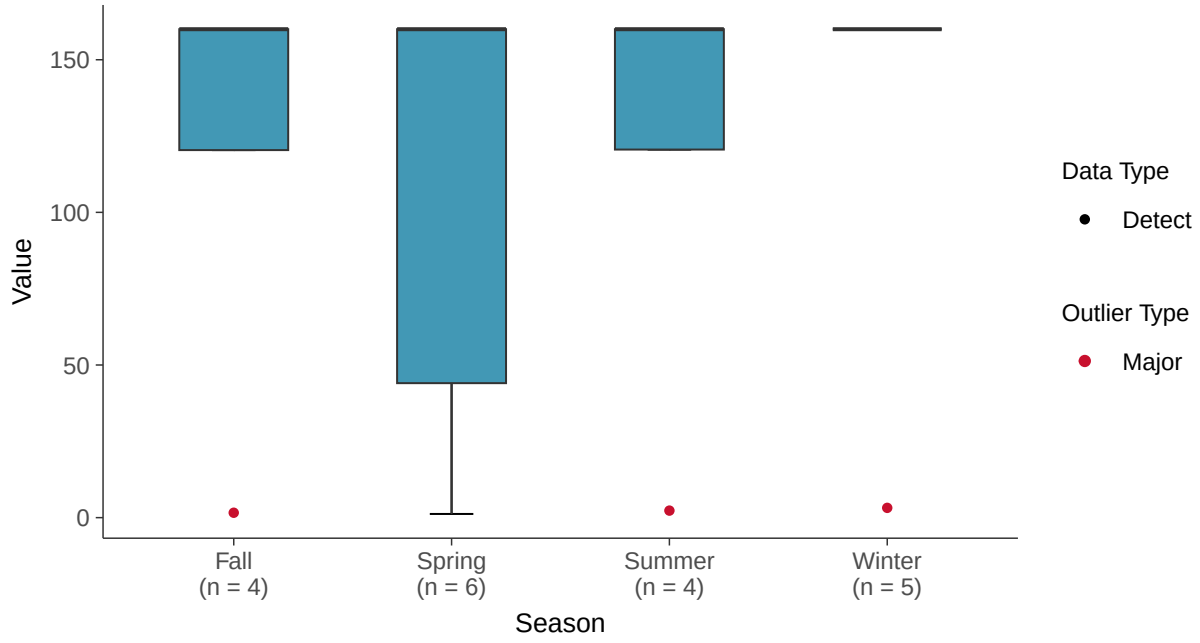
Boxplot

Mercury, MW-02 (ng/L)



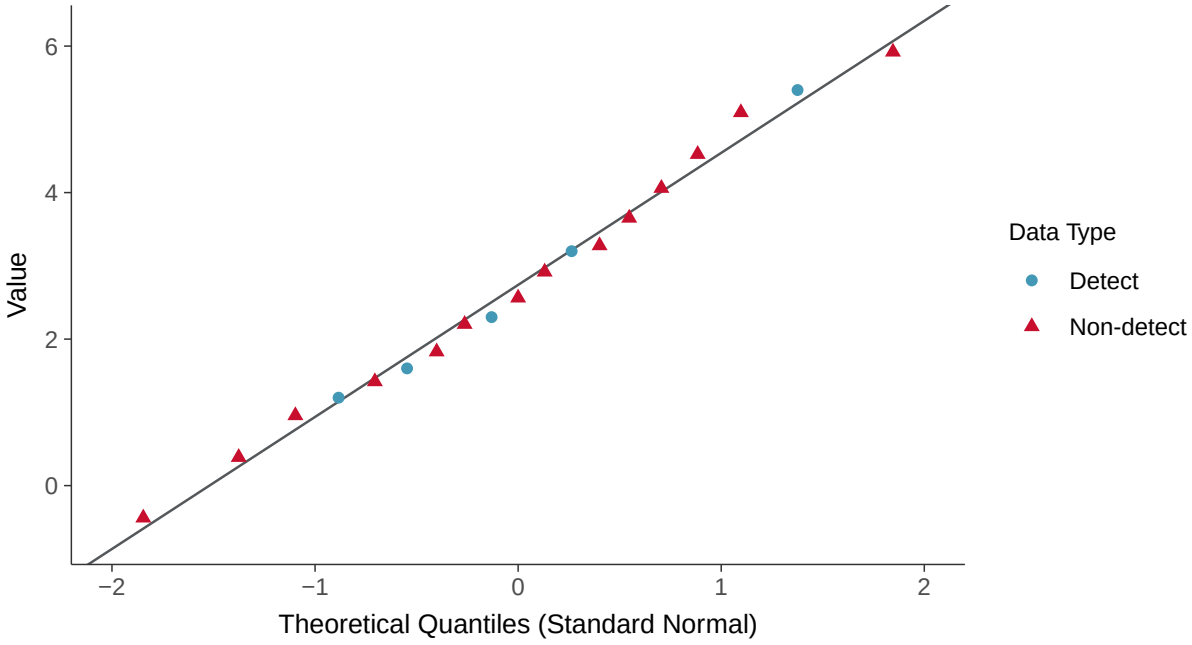
Boxplot by Season

Mercury, MW-02 (ng/L)



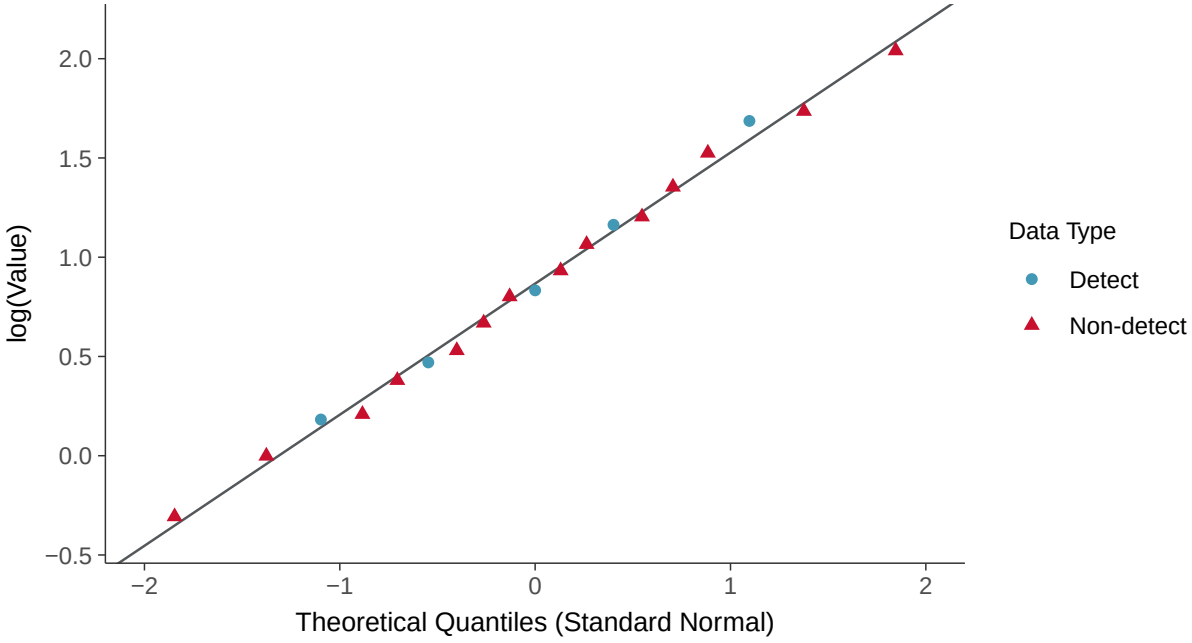
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-02 (ng/L)



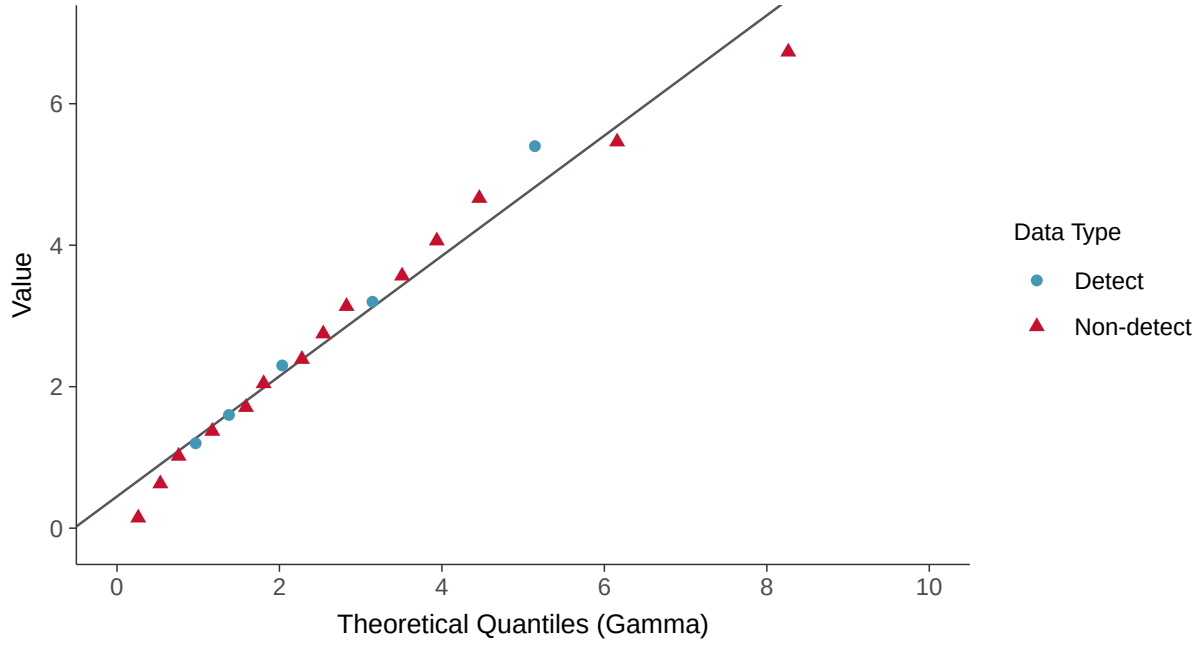
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-02 (ng/L)



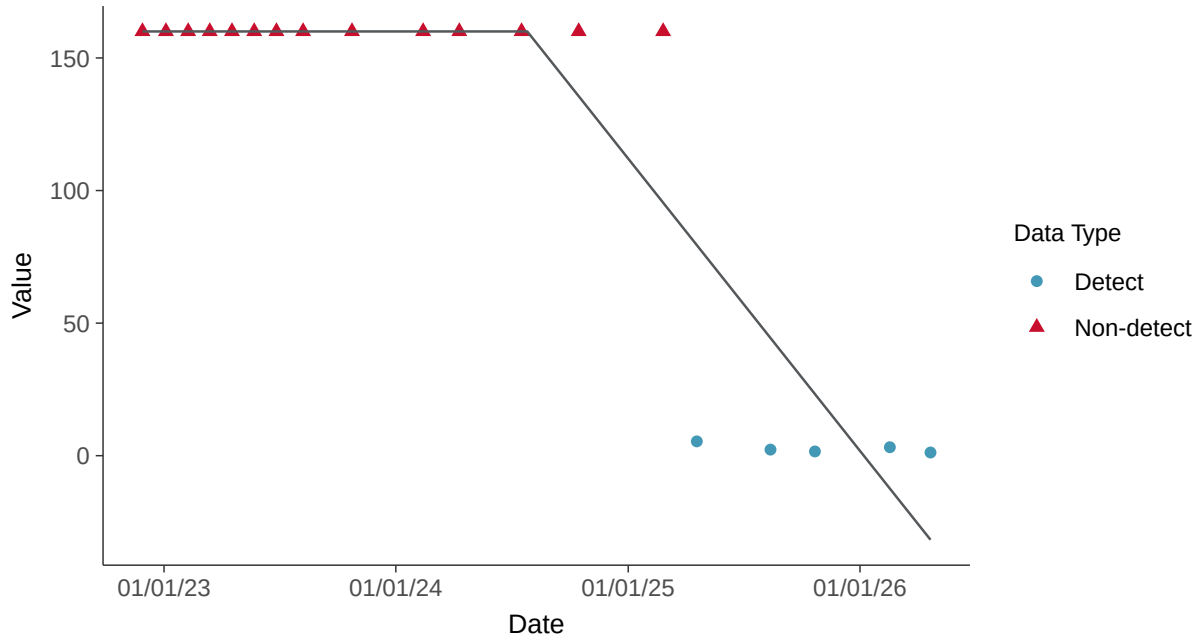
Gamma Q-Q plot using ROS Imputed Estimates

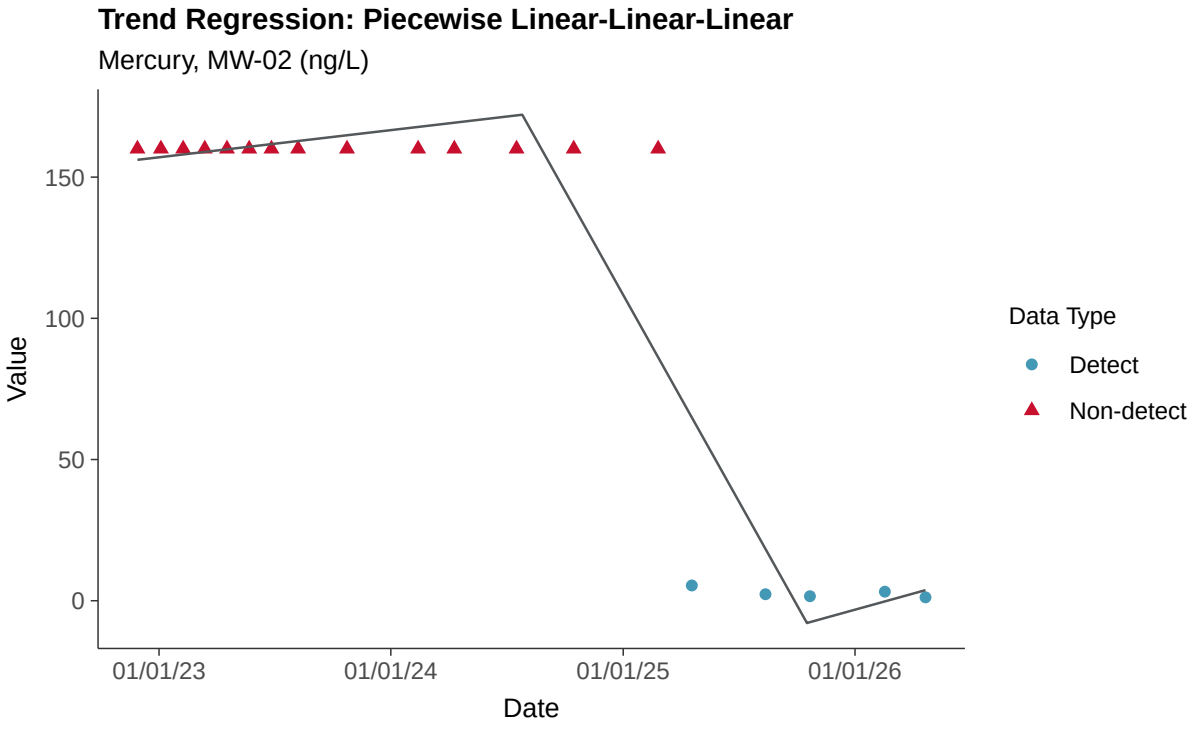
Mercury, MW-02 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-02 (ng/L)



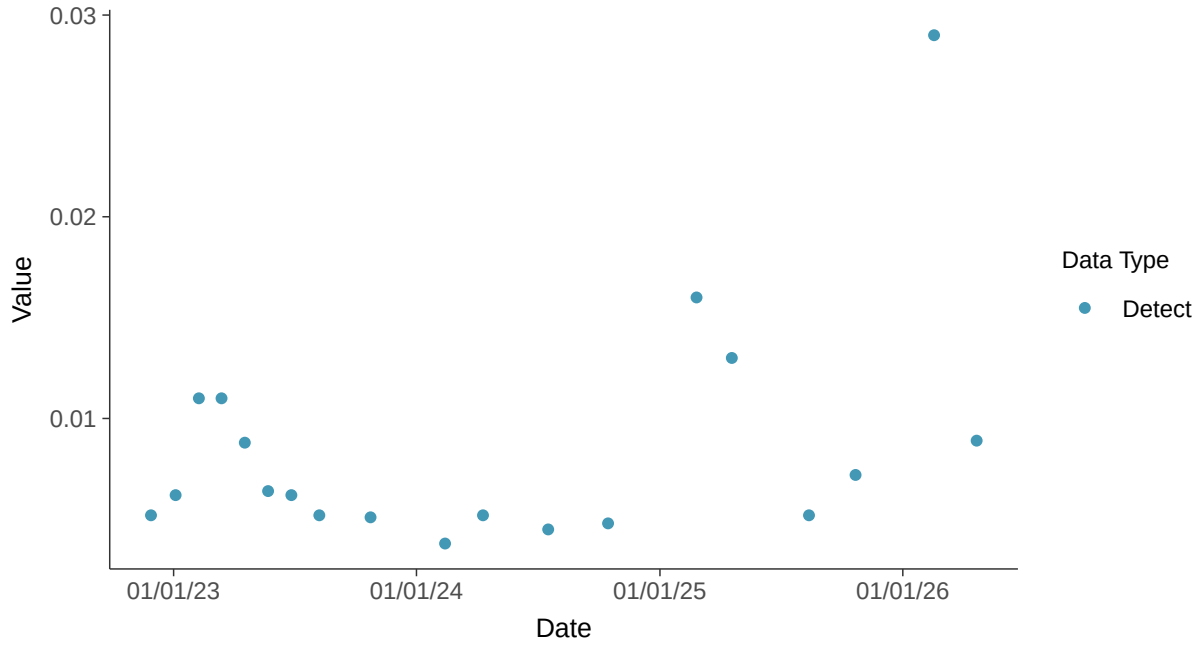

Trend Regression: Piecewise Linear-Linear-Linear
Mercury, MW-02 (ng/L)
Value
150
100
50
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-02

ID: 12_2_4_118

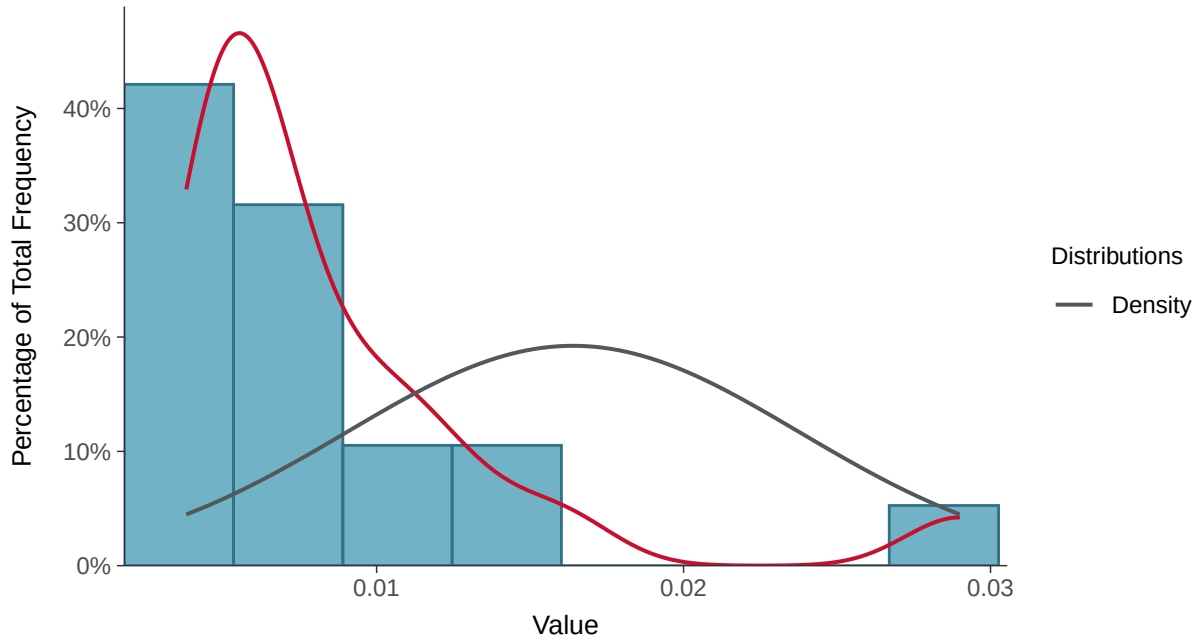
Scatter Plot

Molybdenum, MW-02 (mg/L)



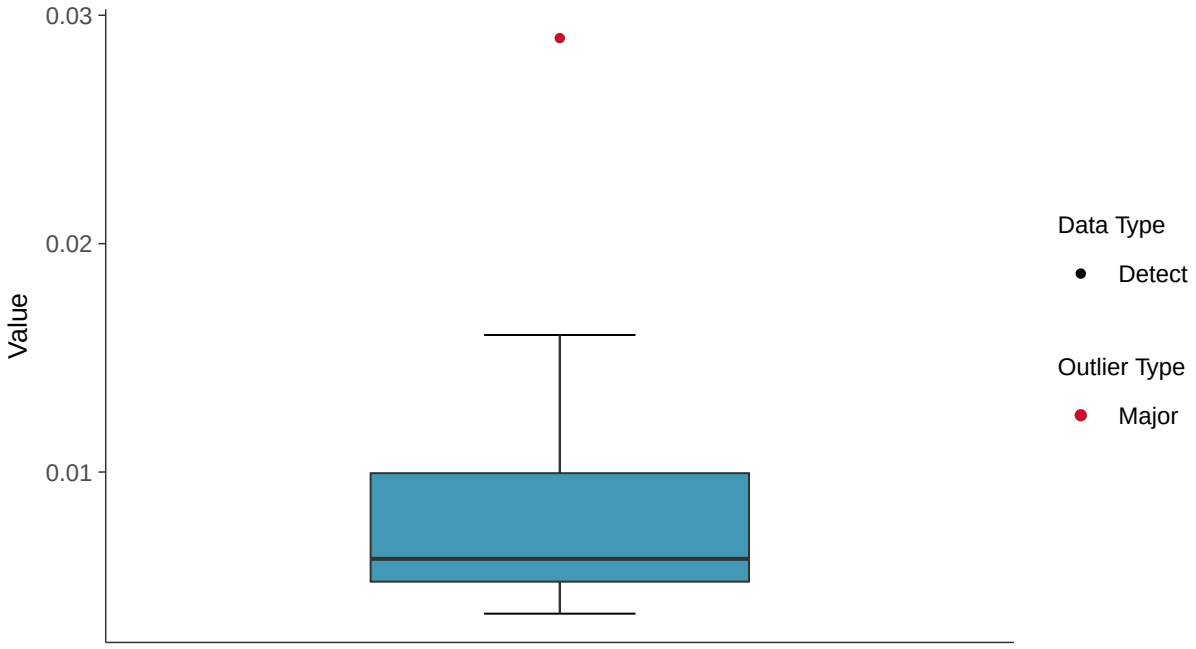
Histogram

Molybdenum, MW-02 (mg/L)



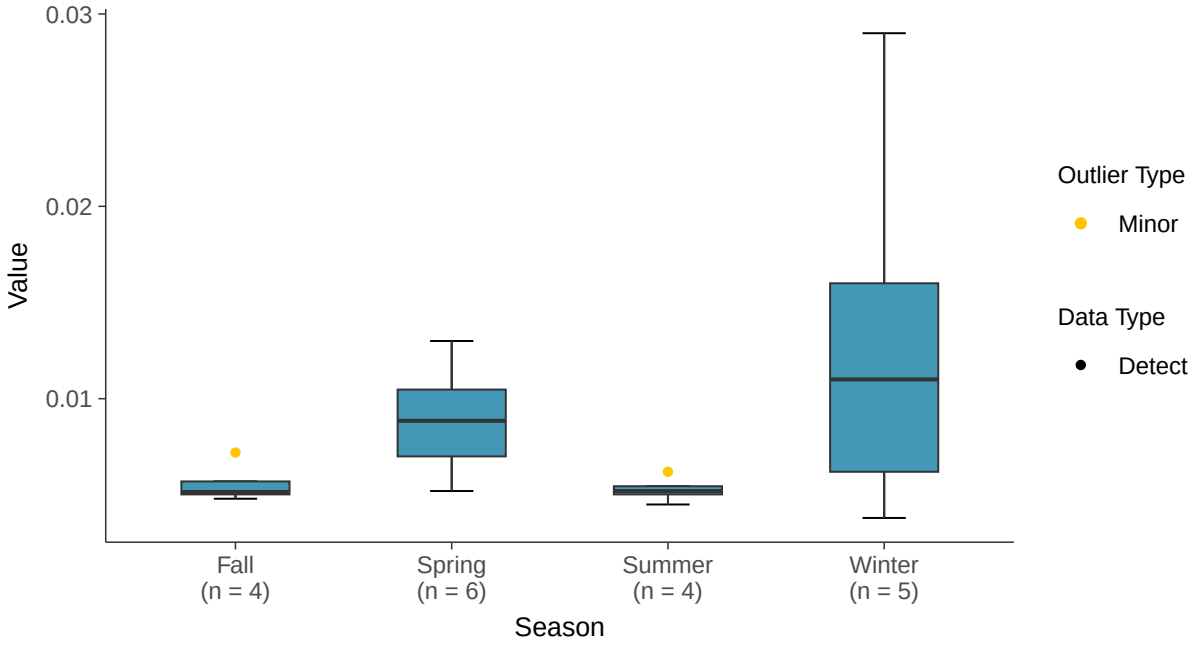
Boxplot

Molybdenum, MW-02 (mg/L)



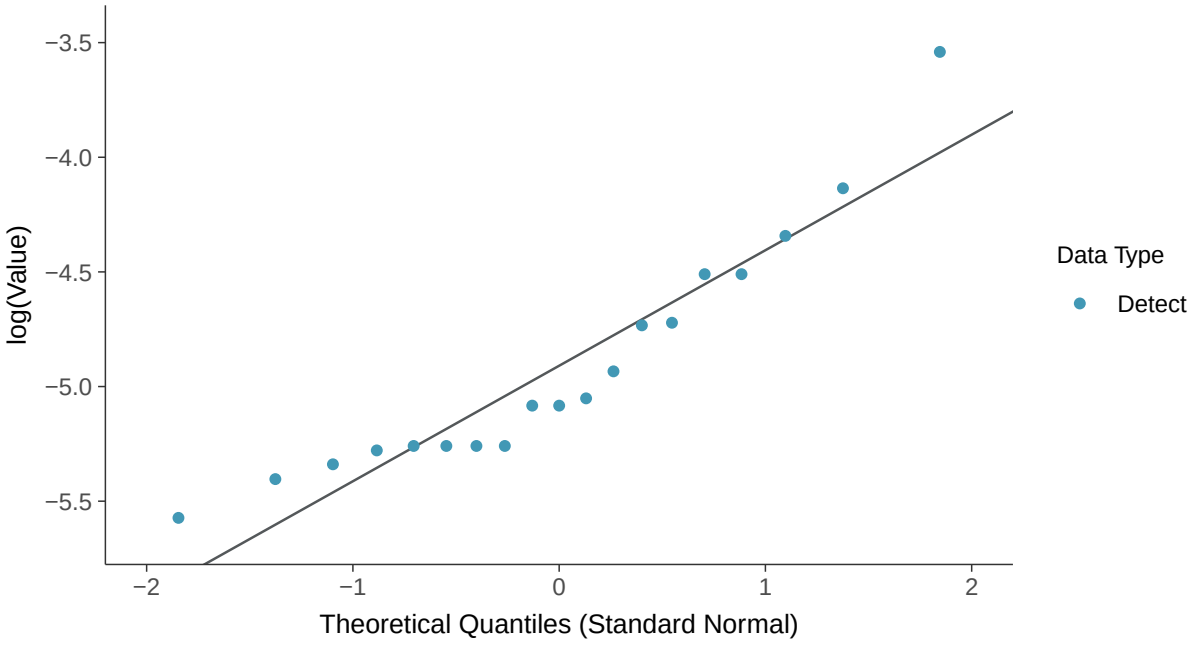
Boxplot by Season

Molybdenum, MW-02 (mg/L)



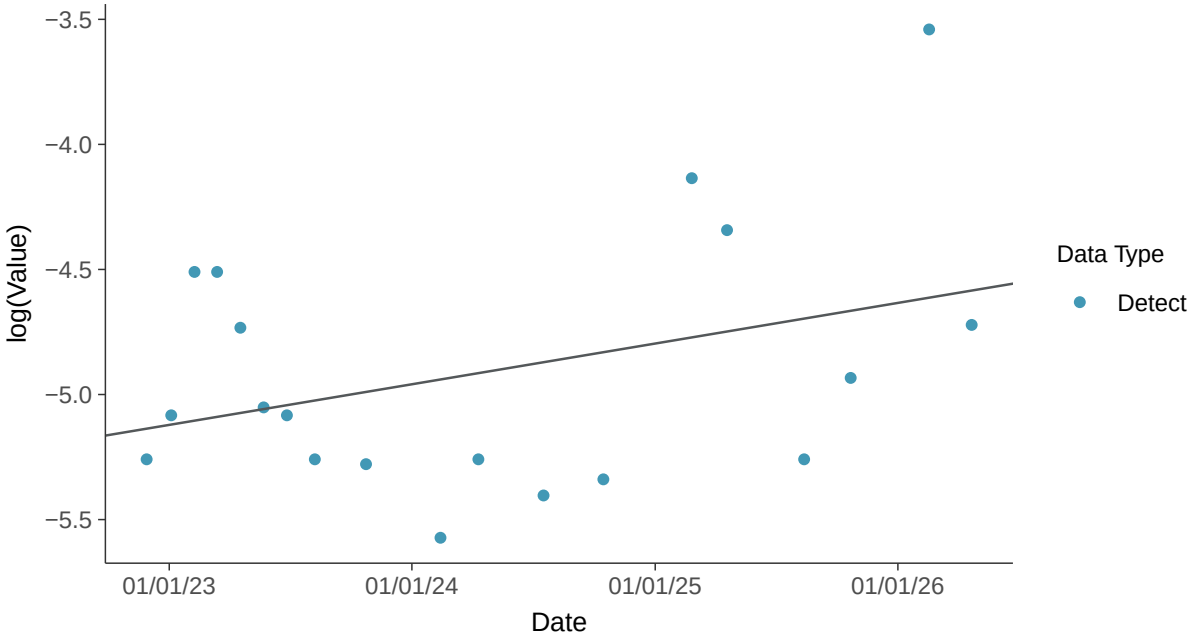
Lognormal Q-Q plot

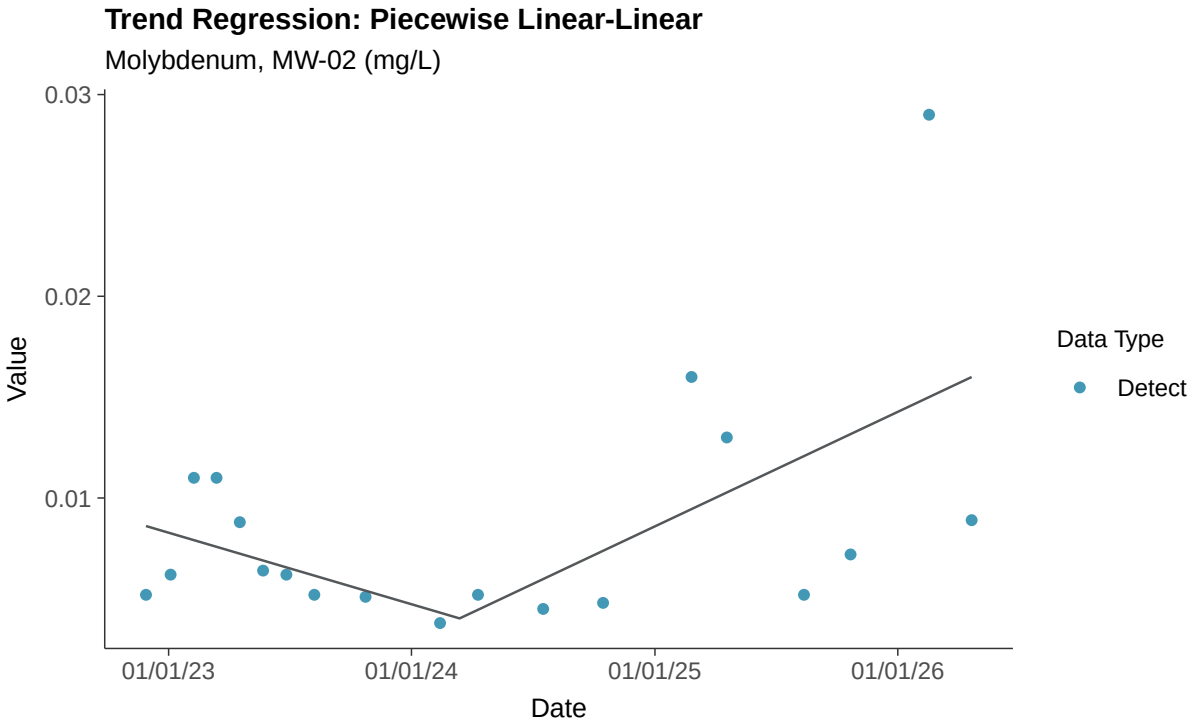
Molybdenum, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-02 (mg/L)



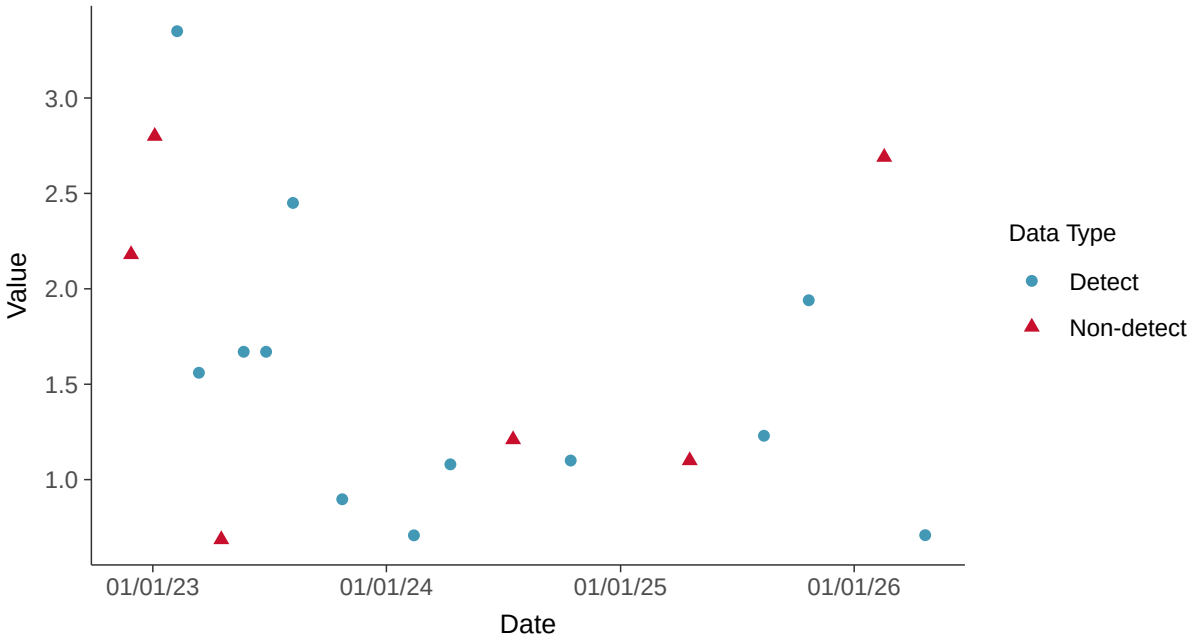

Trend Regression: Piecewise Linear-Linear
Molybdenum, MW-02 (mg/L)
0.03
0.02
0.01
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Radium 226 and 228, MW-02

ID: 12_2_4_121

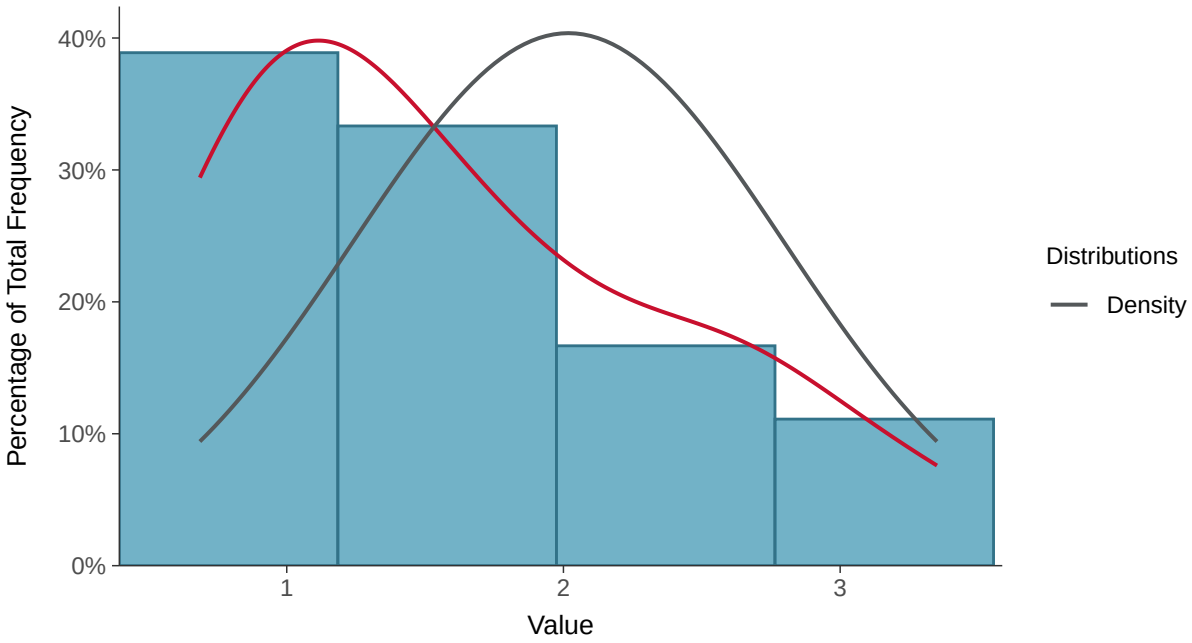
Scatter Plot

Radium 226 and 228, MW-02 (pCi/L)



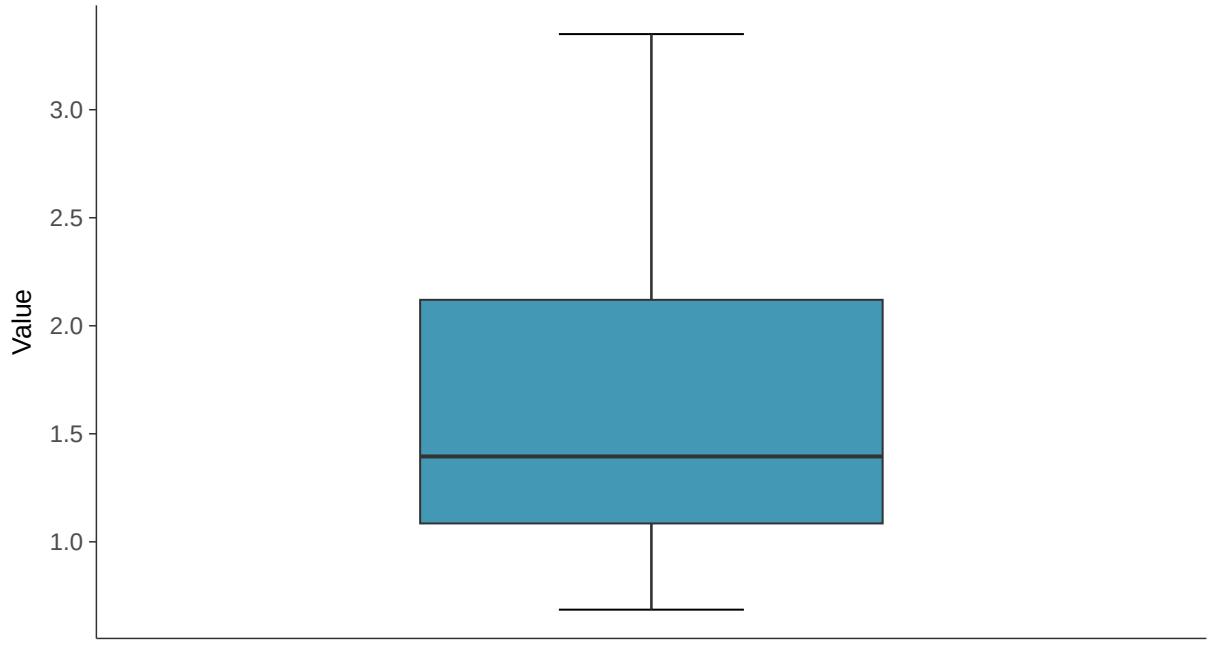
Histogram

Radium 226 and 228, MW-02 (pCi/L)



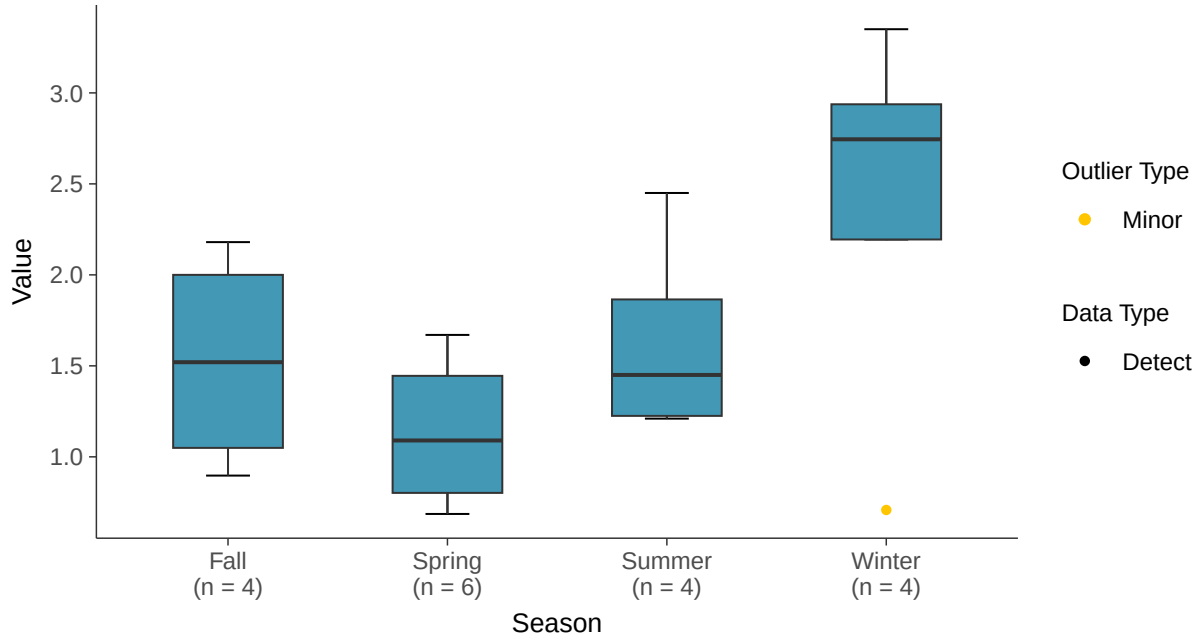
Boxplot

Radium 226 and 228, MW-02 (pCi/L)



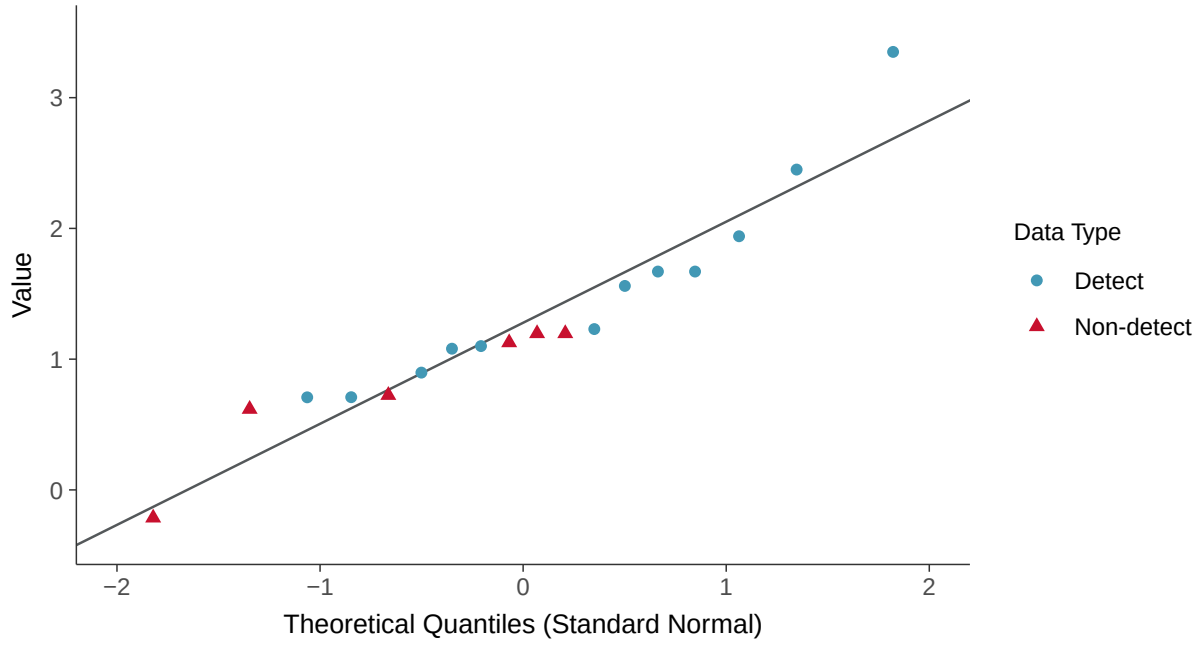
Boxplot by Season

Radium 226 and 228, MW-02 (pCi/L)



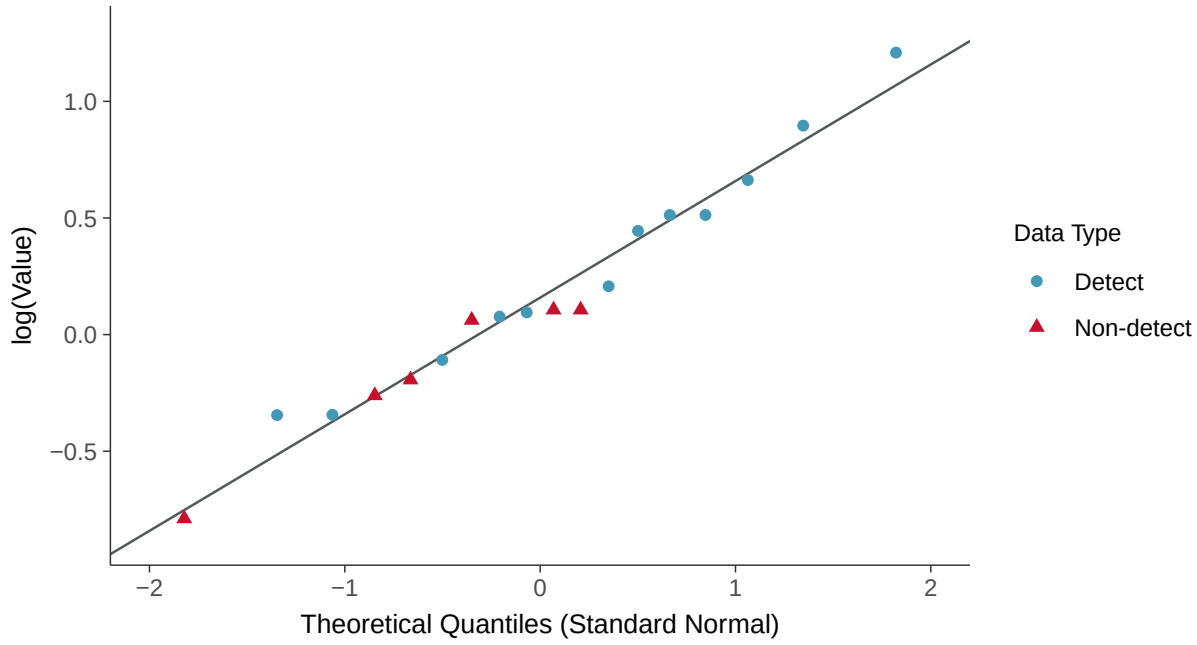
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



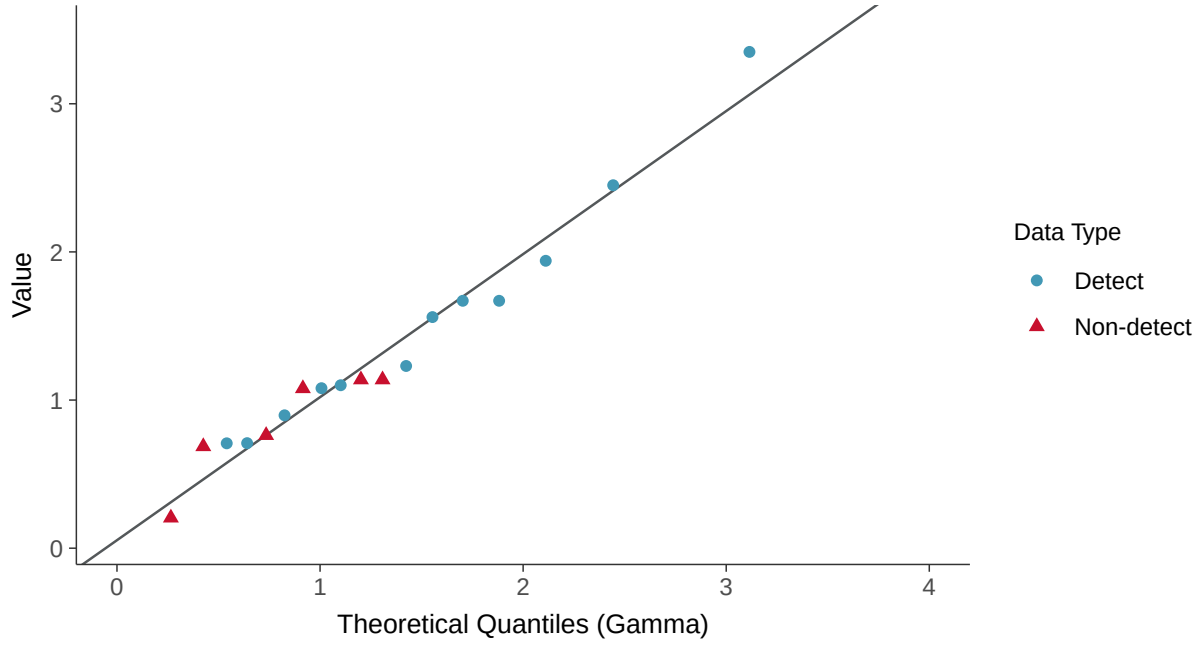
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



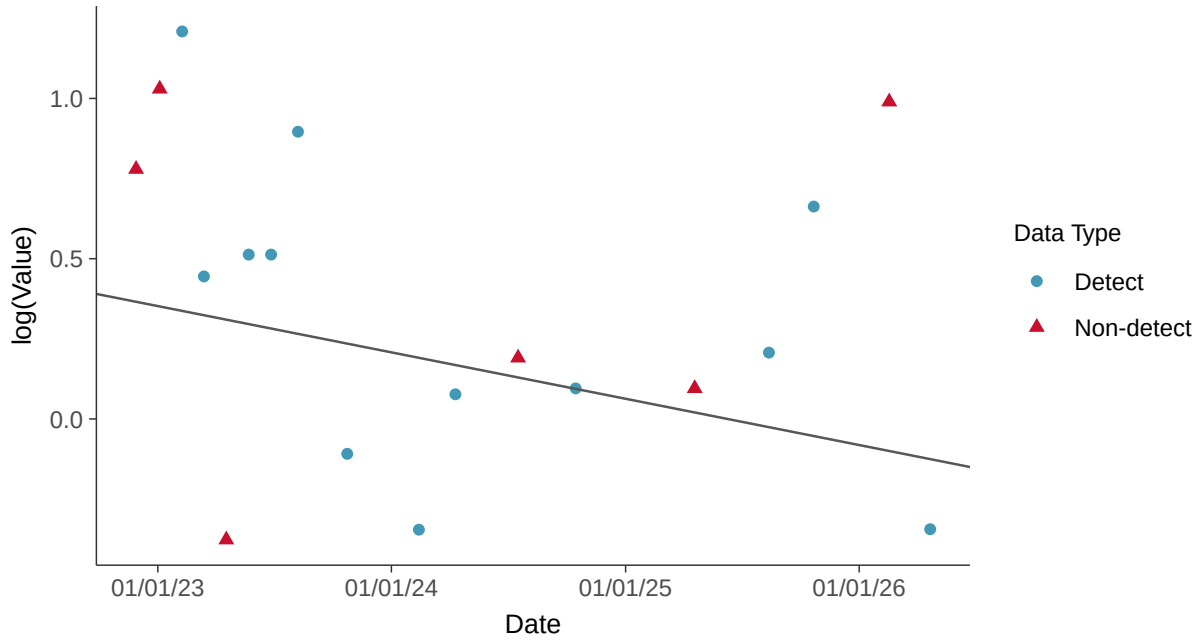
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-02 (pCi/L)



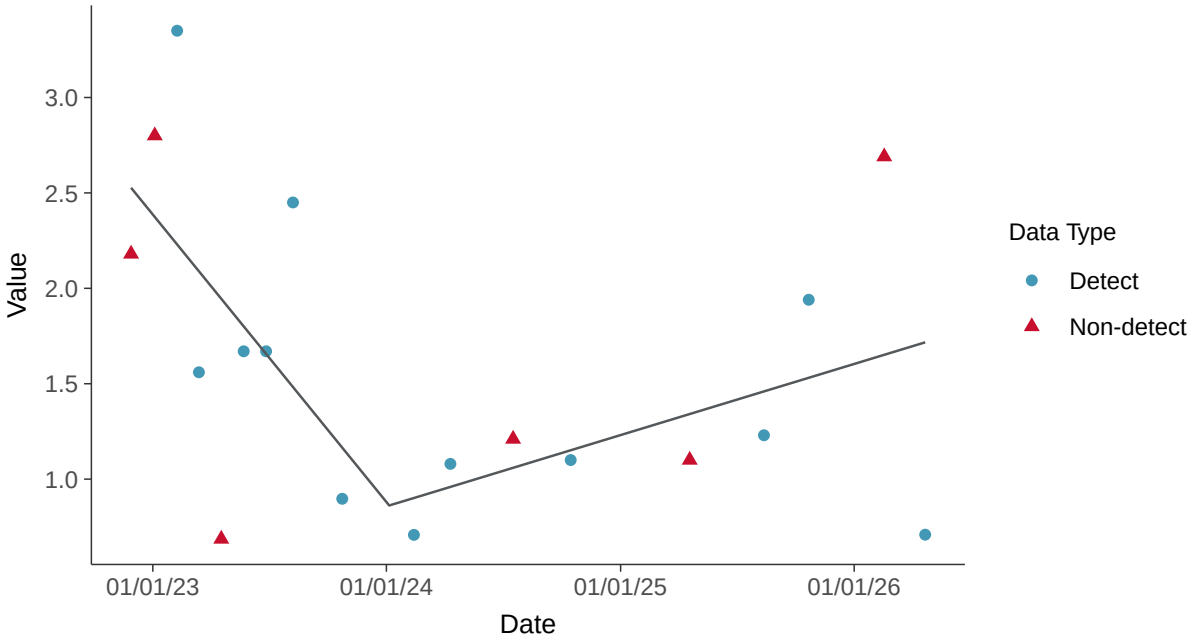
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-02 (pCi/L)



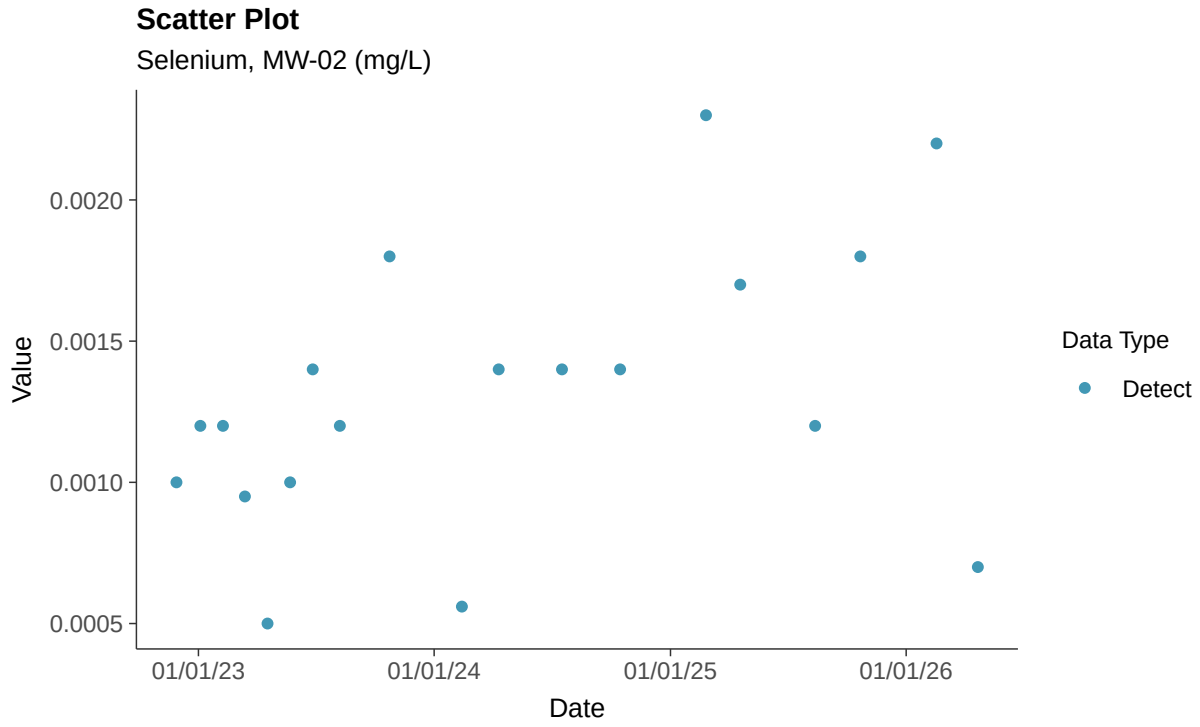
Trend Regression: Piecewise Linear-Linear

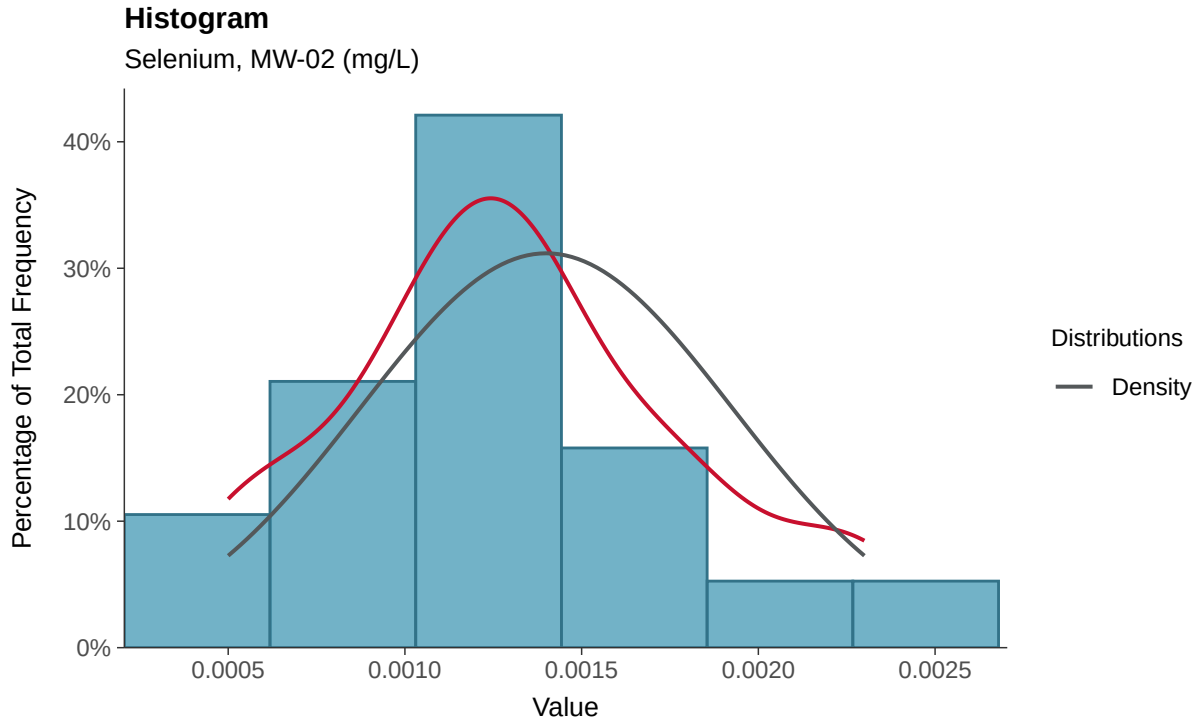
Radium 226 and 228, MW-02 (pCi/L)



Appendix IV: Selenium, MW-02

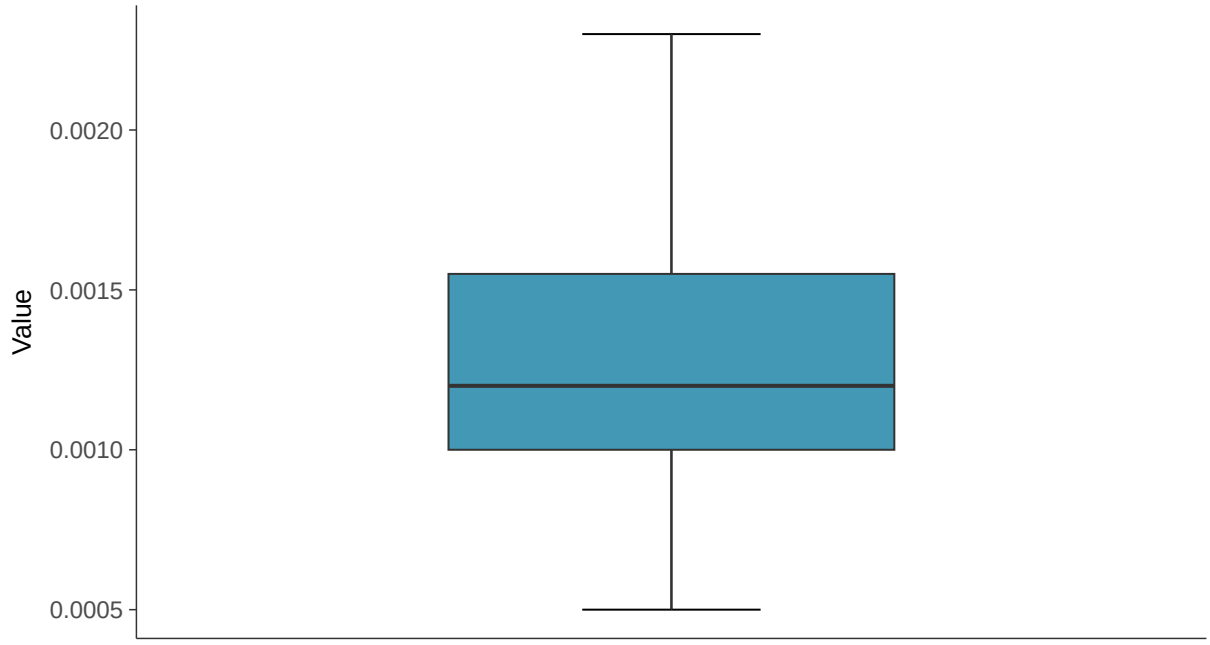
ID: 12_2_4_122





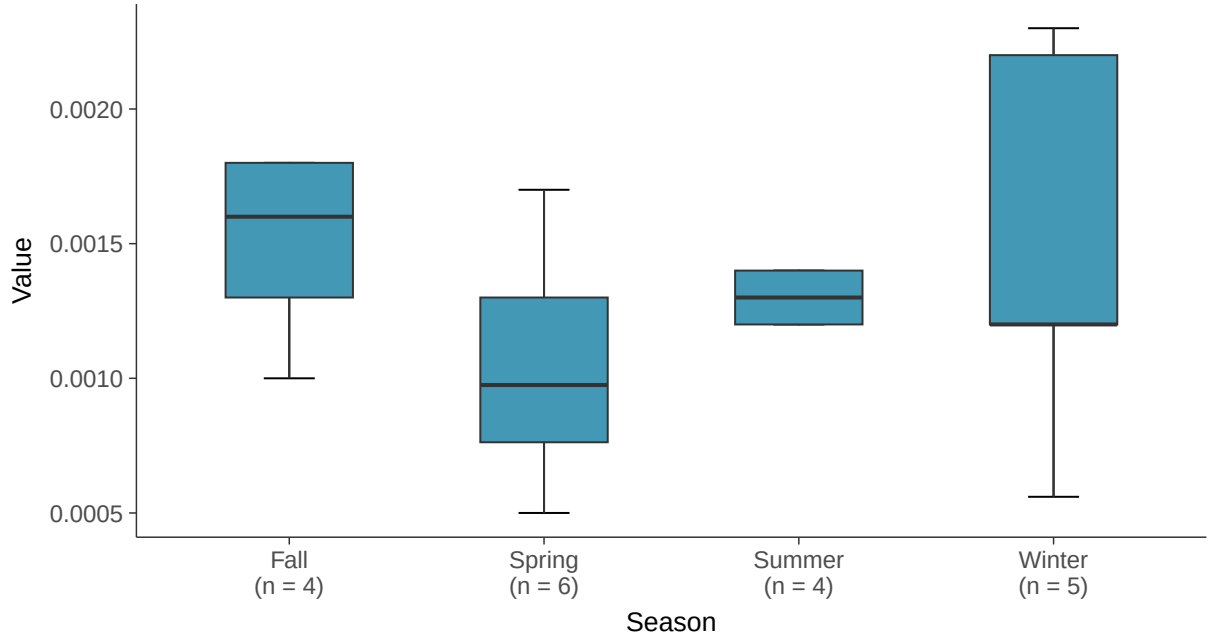
Boxplot

Selenium, MW-02 (mg/L)



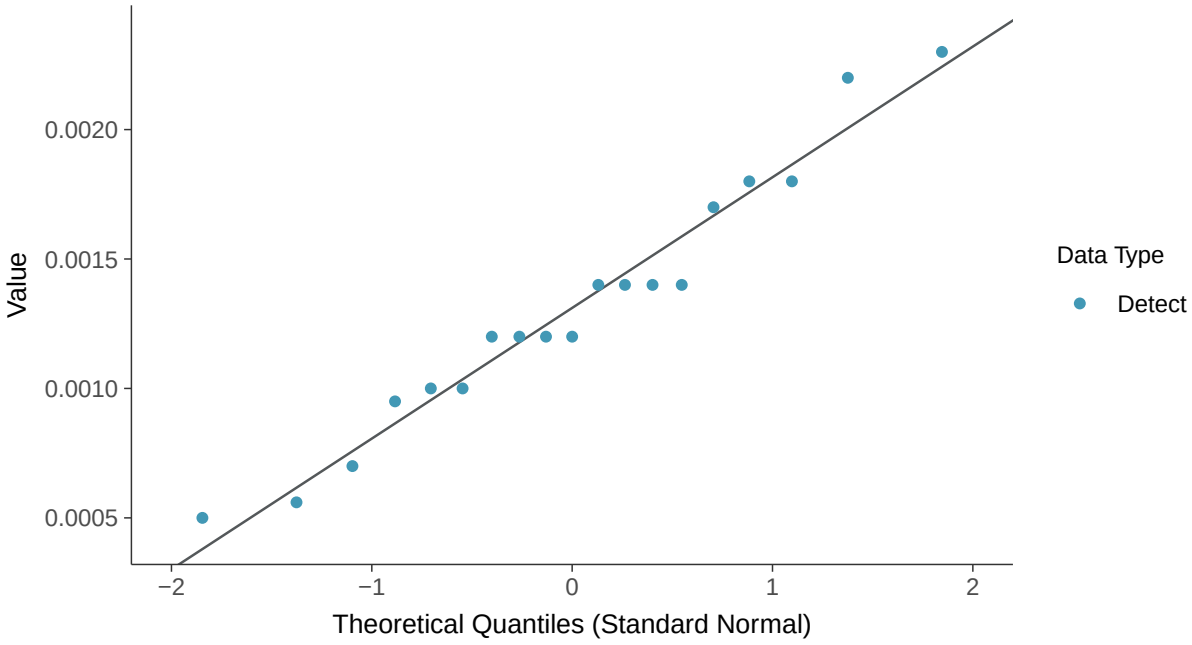
Boxplot by Season

Selenium, MW-02 (mg/L)



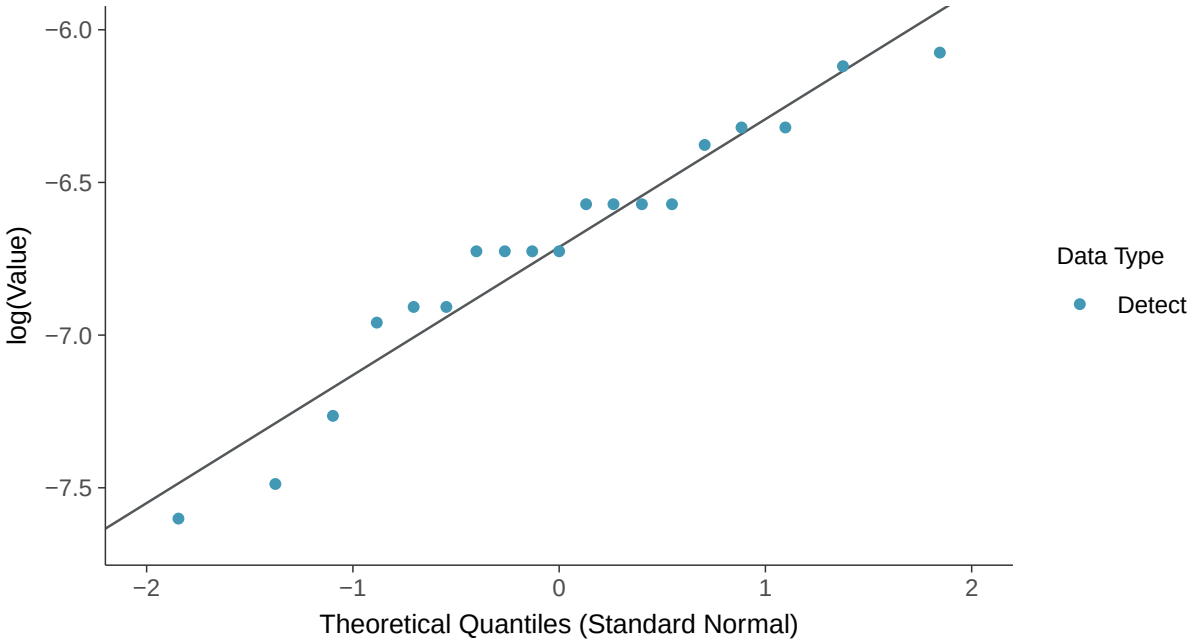
Normal Q-Q plot

Selenium, MW-02 (mg/L)



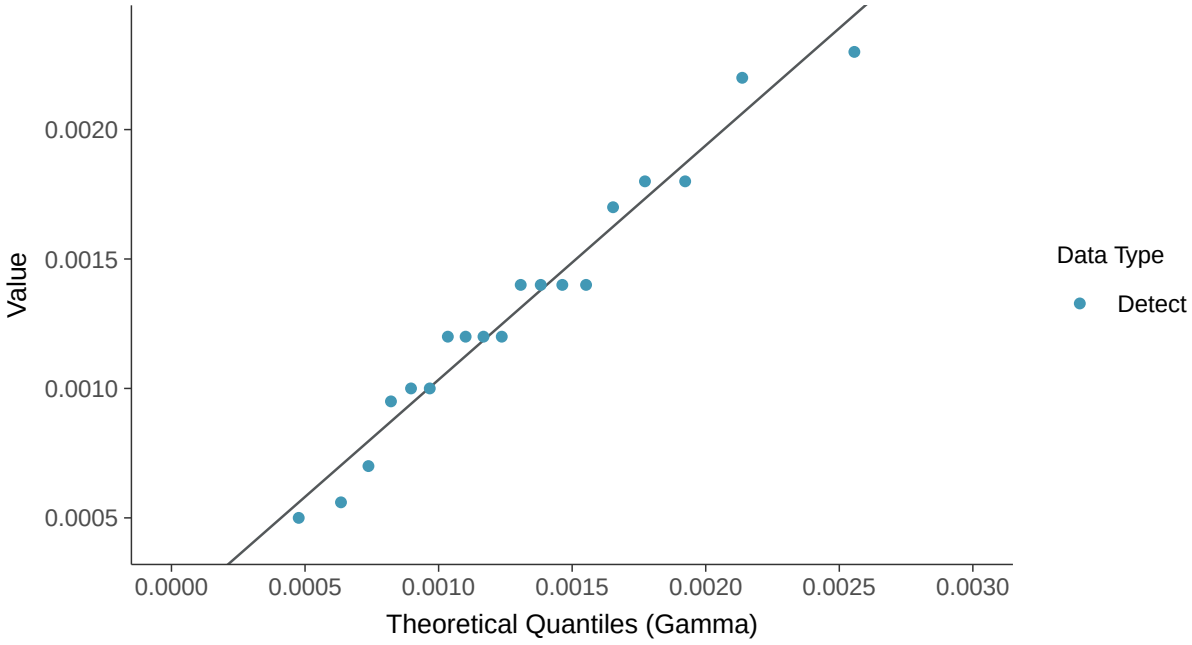
Lognormal Q-Q plot

Selenium, MW-02 (mg/L)



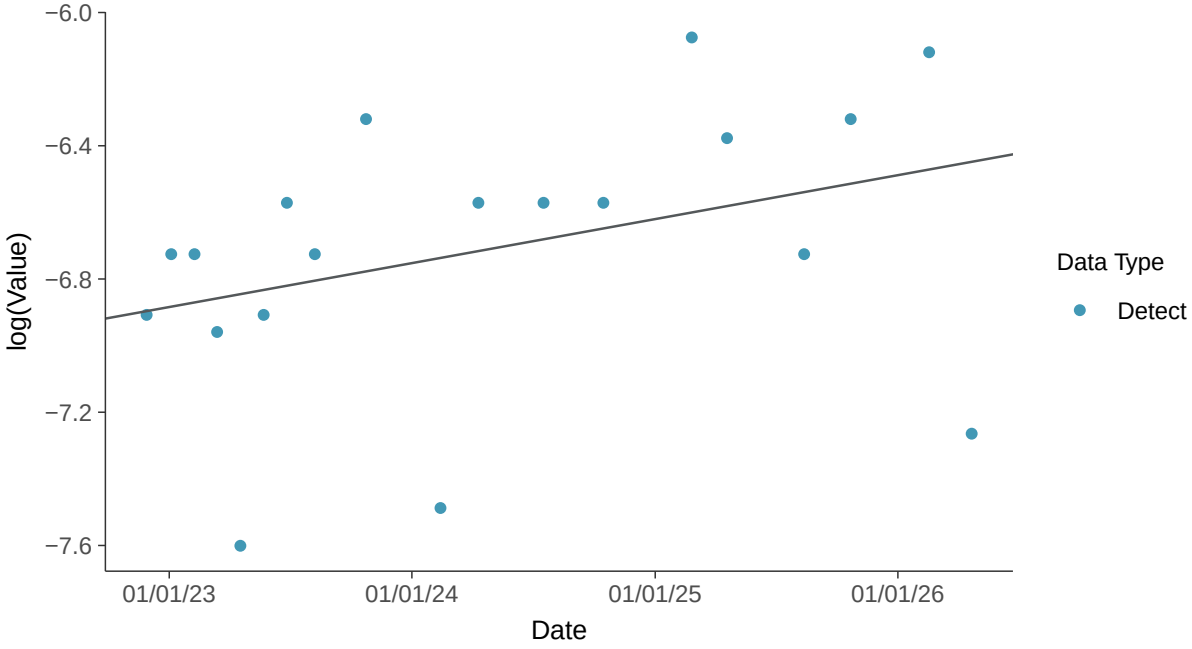
Gamma Q-Q plot

Selenium, MW-02 (mg/L)



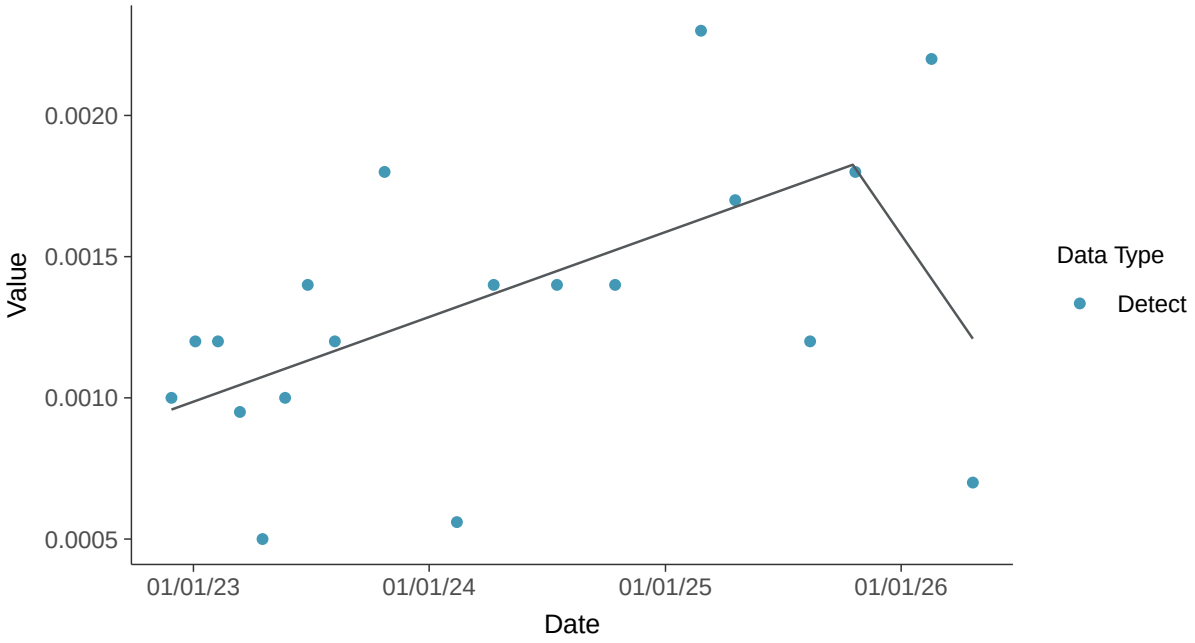
Trend Regression: Lognormal MLE

Selenium, MW-02 (mg/L)



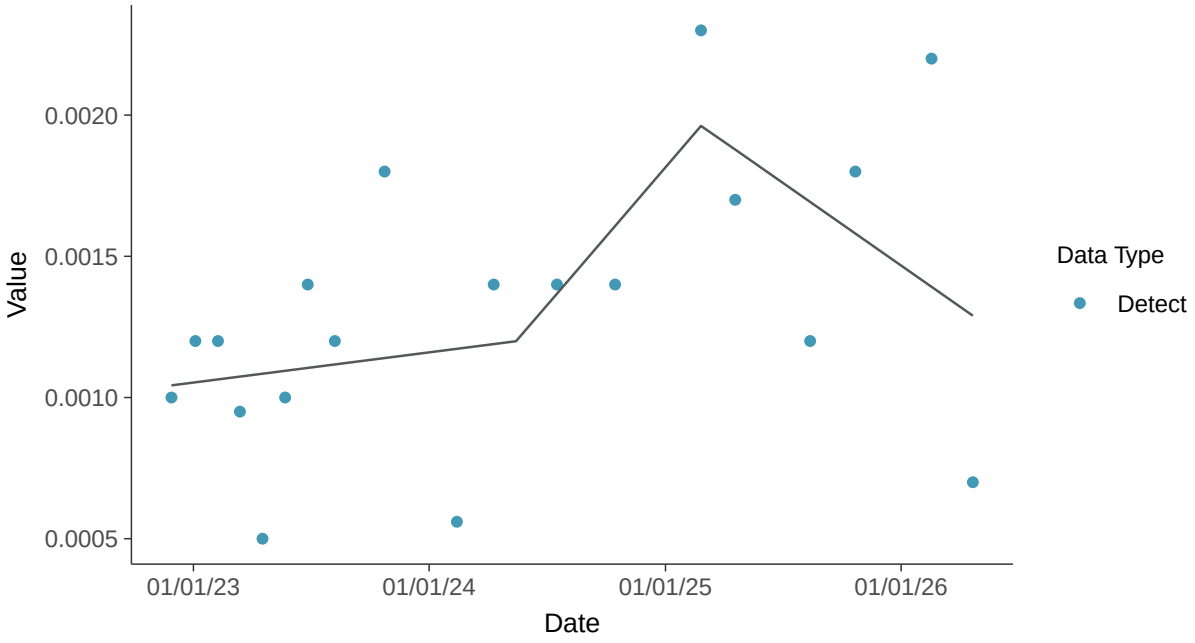
Trend Regression: Piecewise Linear-Linear

Selenium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-02 (mg/L)

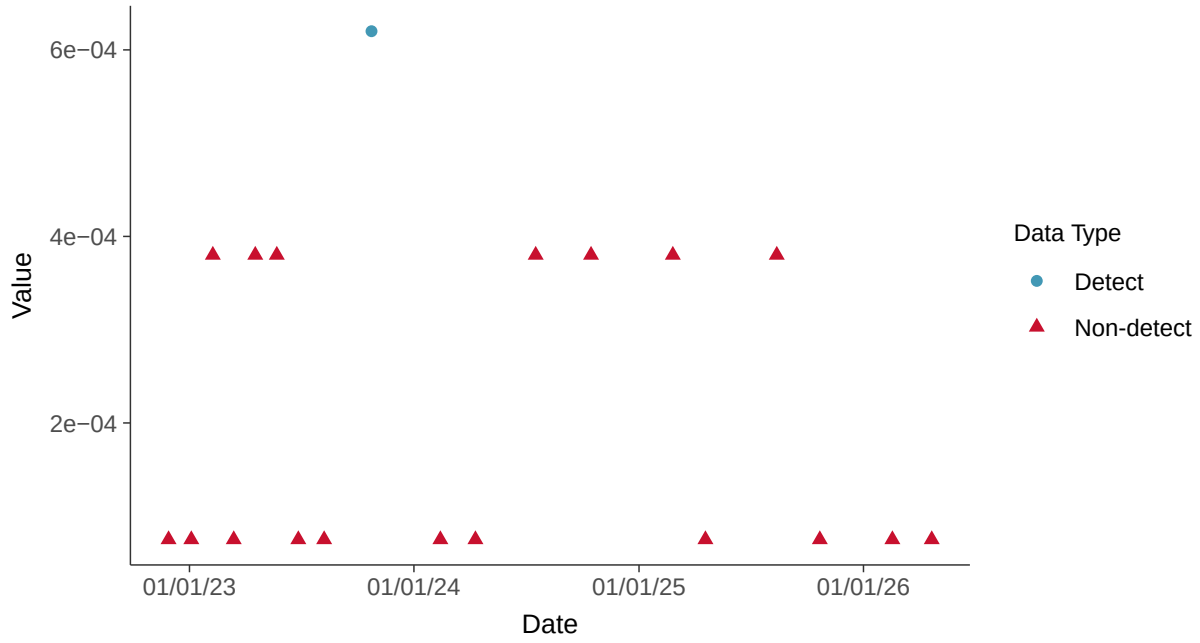


Appendix IV: Thallium, MW-02

ID: 12_2_4_125

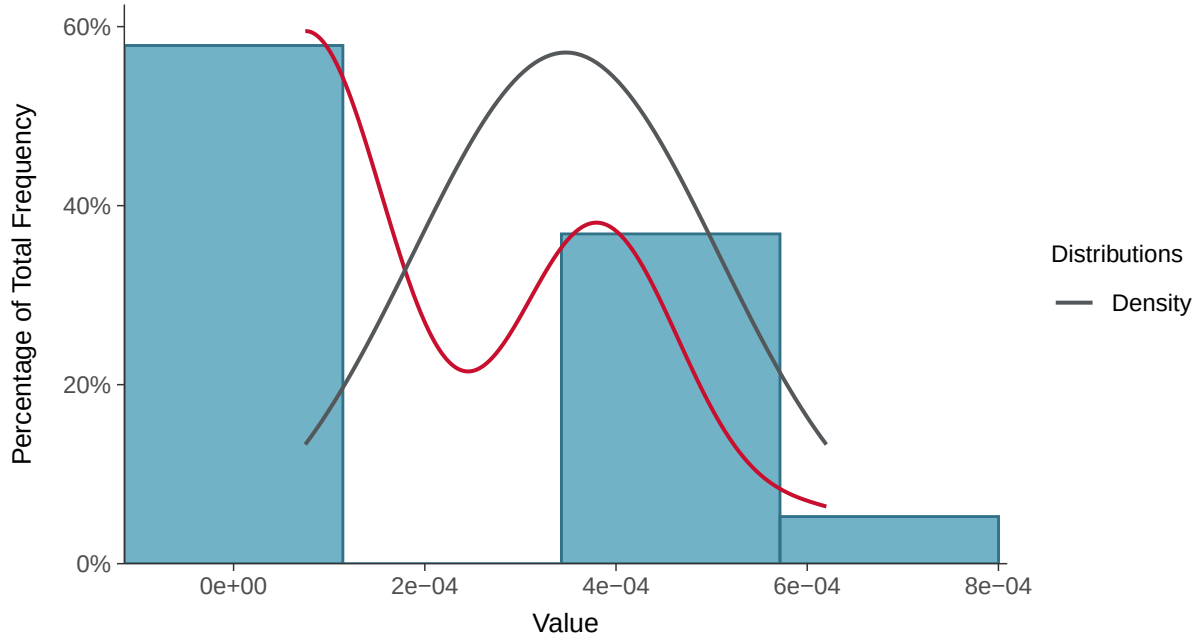
Scatter Plot

Thallium, MW-02 (mg/L)



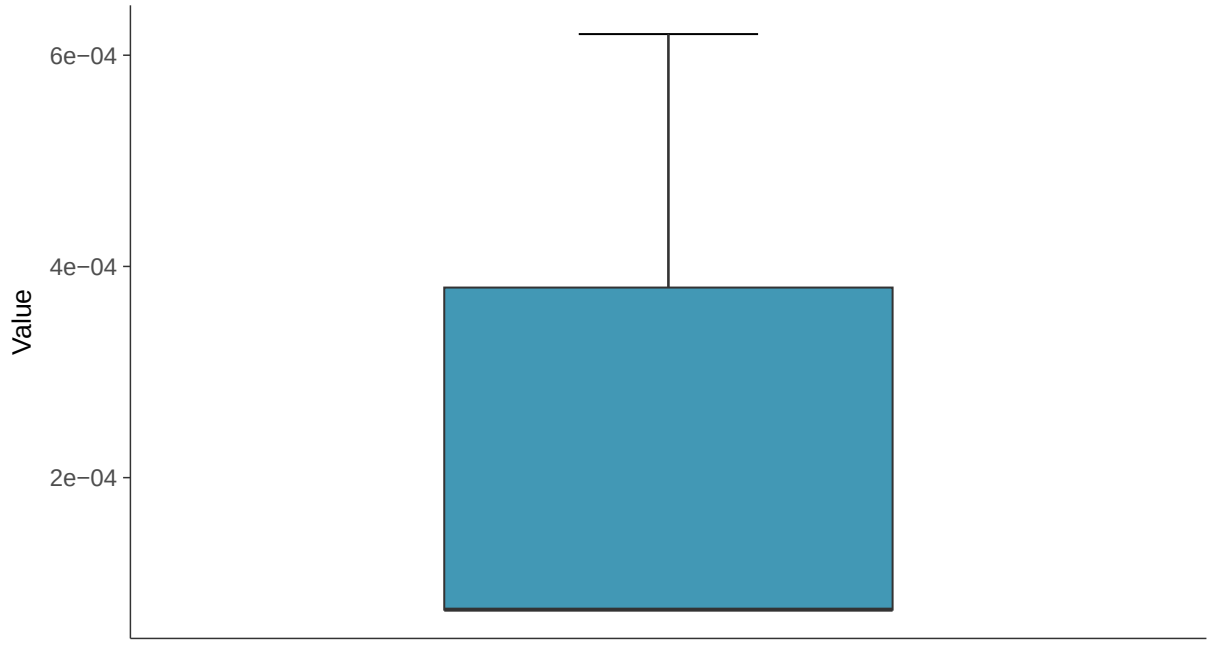
Histogram

Thallium, MW-02 (mg/L)



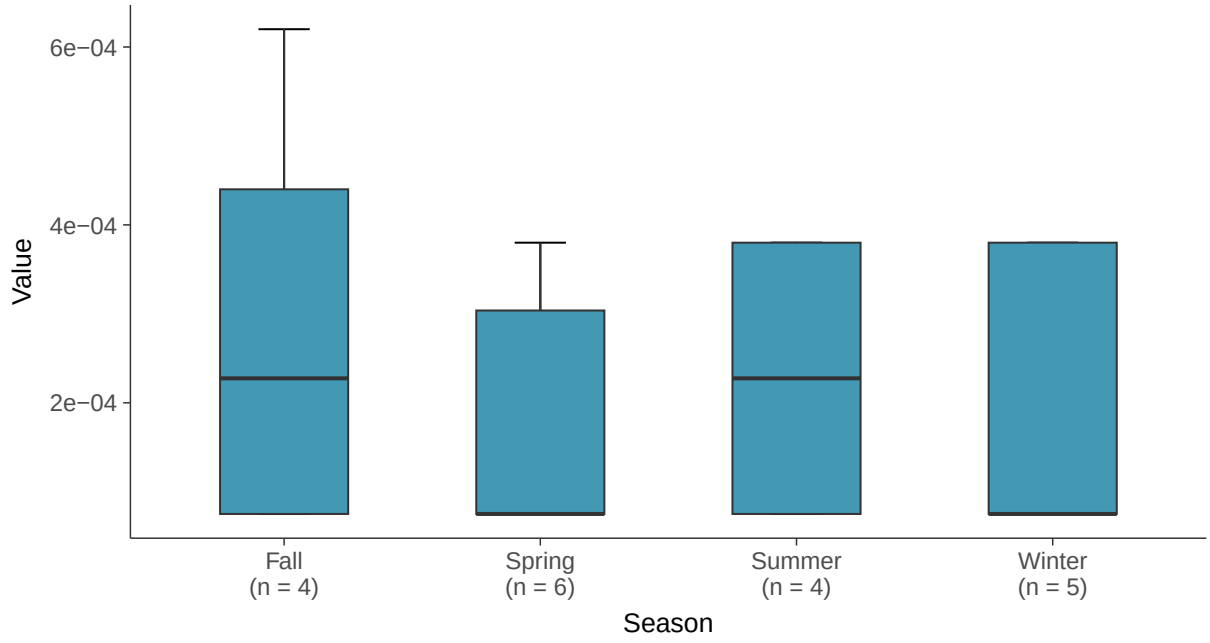
Boxplot

Thallium, MW-02 (mg/L)



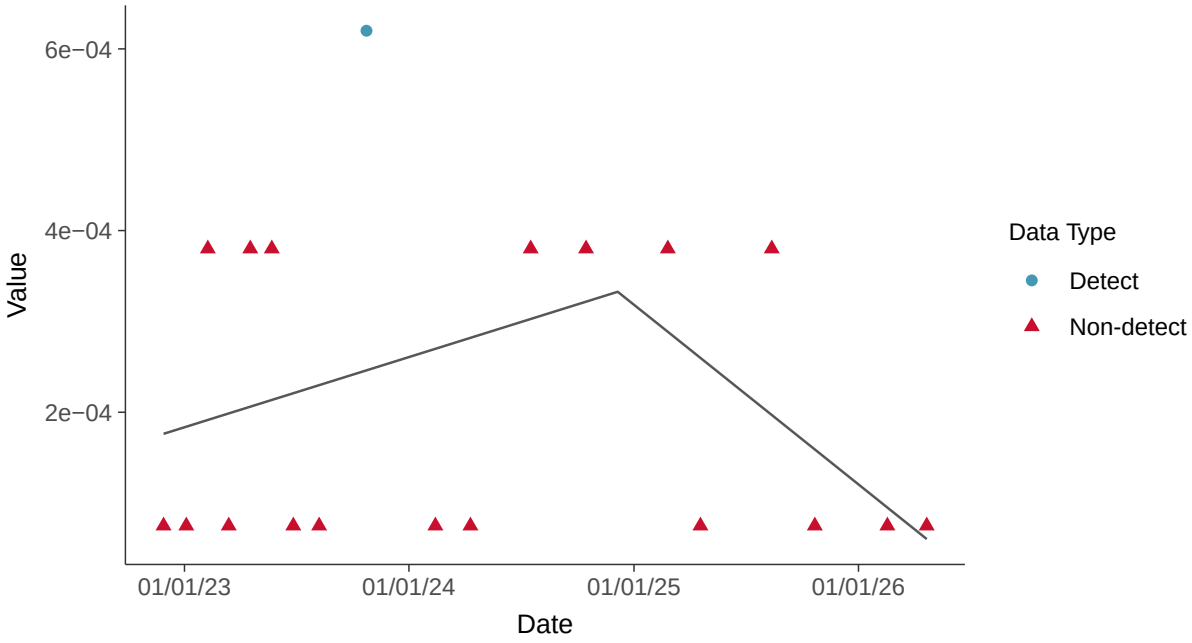
Boxplot by Season

Thallium, MW-02 (mg/L)



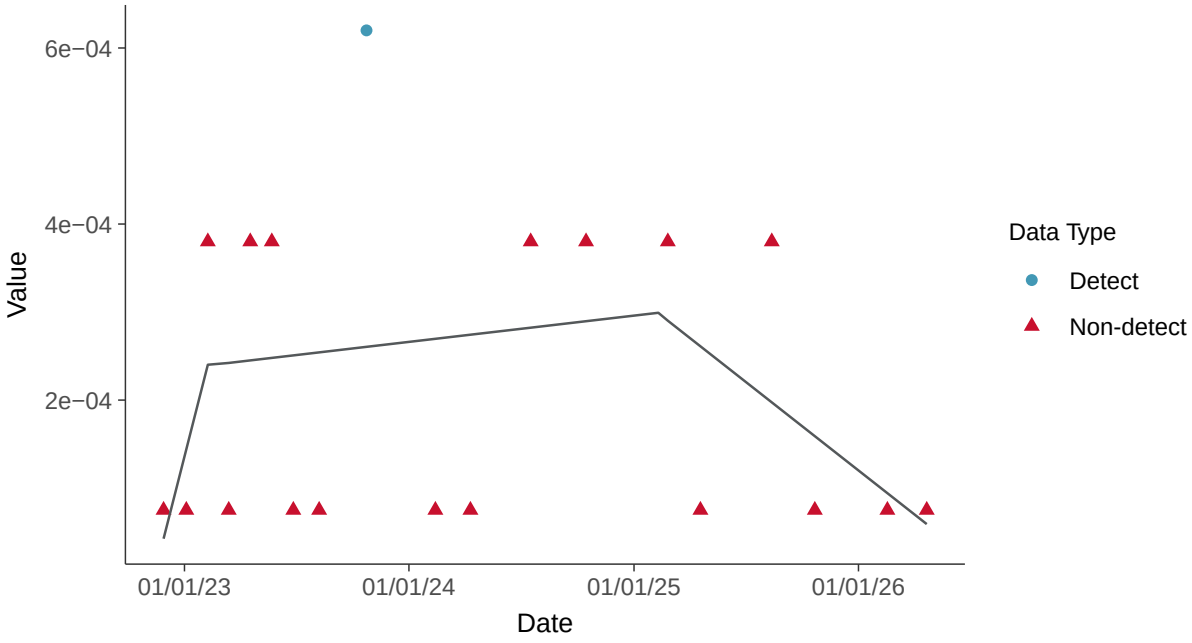
Trend Regression: Piecewise Linear-Linear

Thallium, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-02 (mg/L)

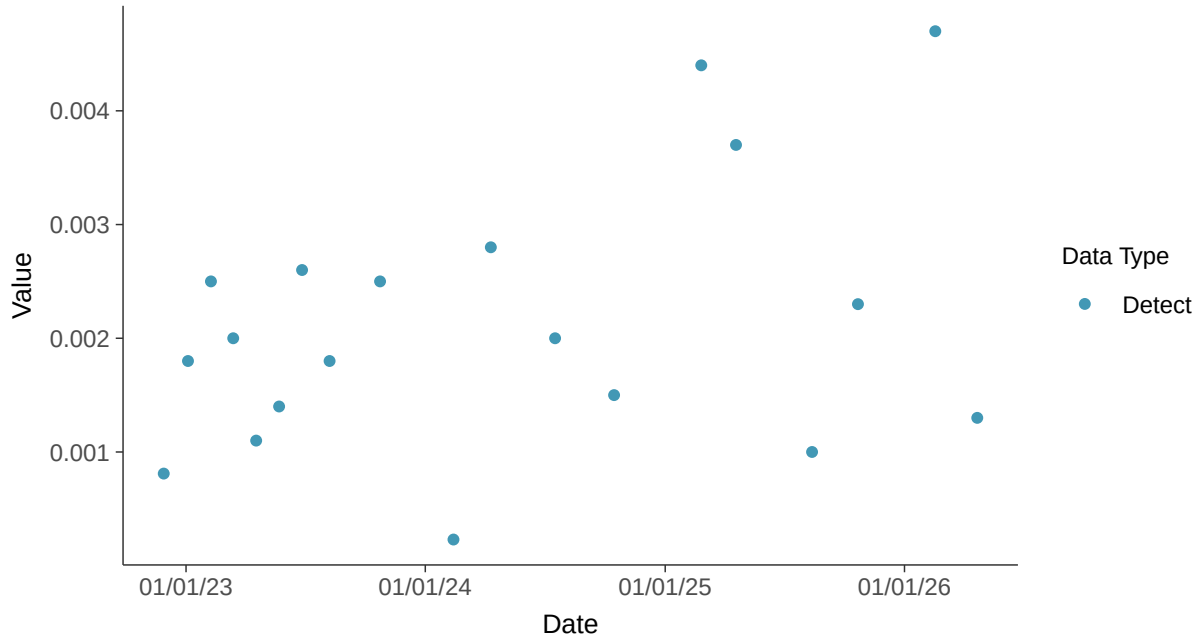


Part 115: Copper, MW-02

ID: 12_2_5_111

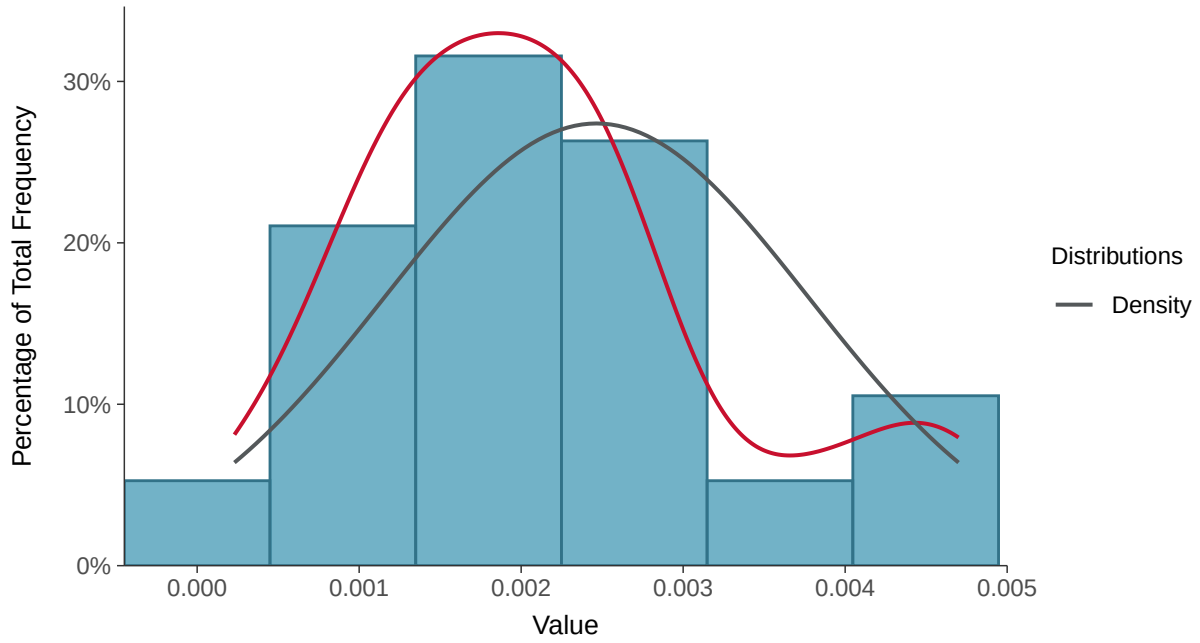
Scatter Plot

Copper, MW-02 (mg/L)



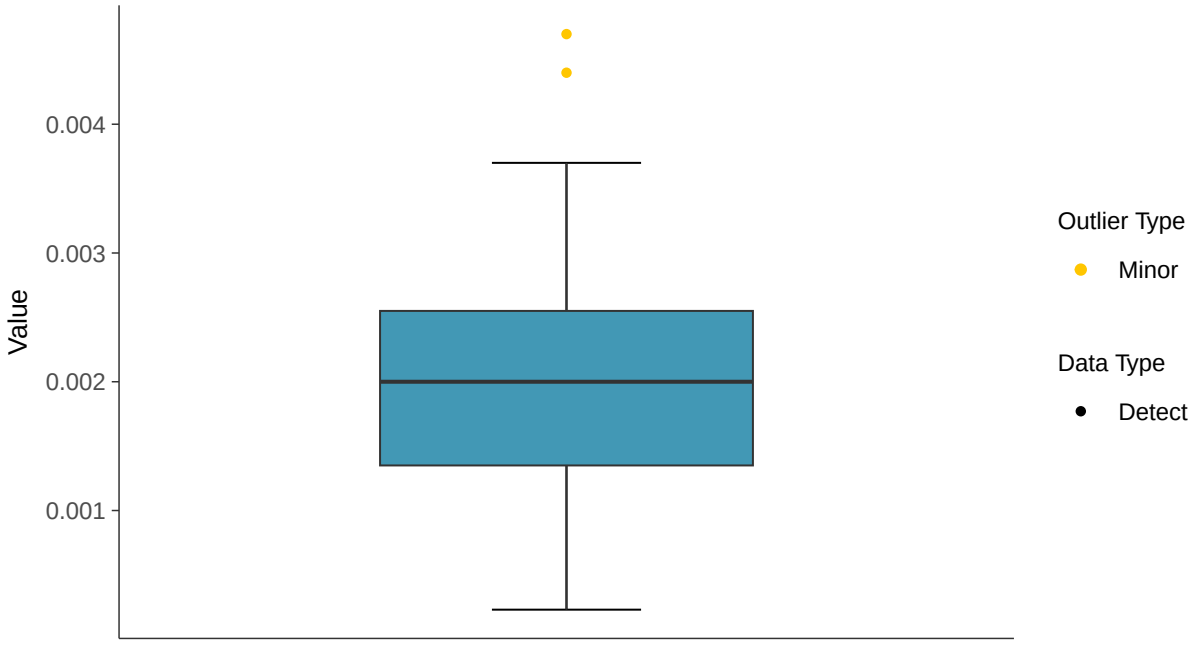
Histogram

Copper, MW-02 (mg/L)



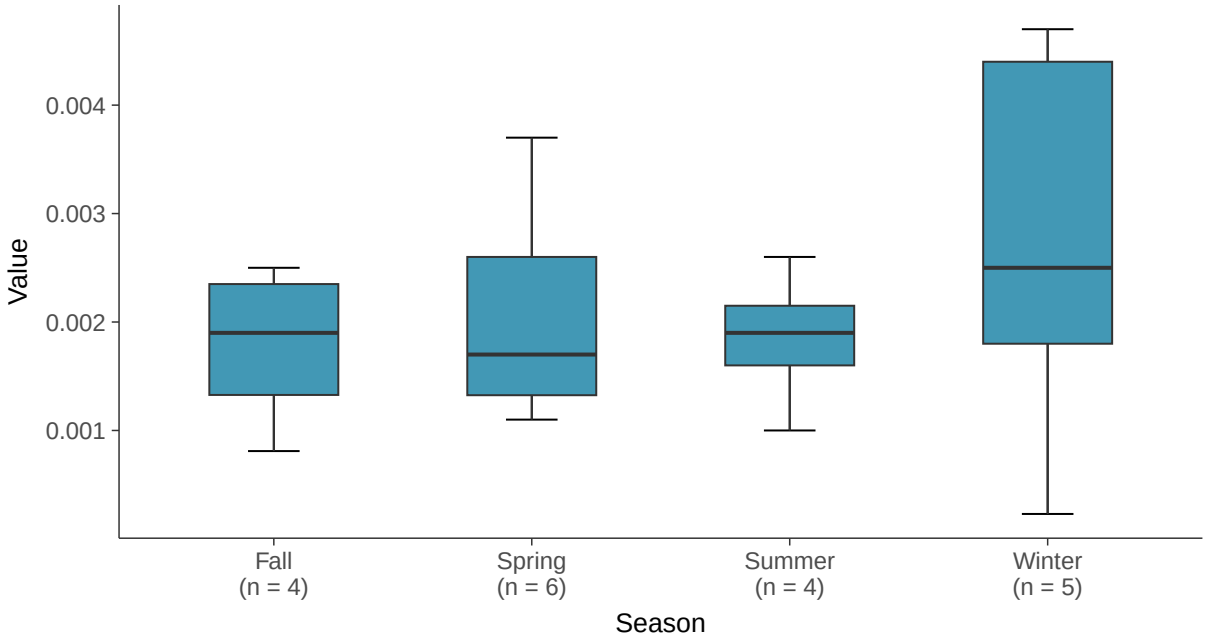
Boxplot

Copper, MW-02 (mg/L)



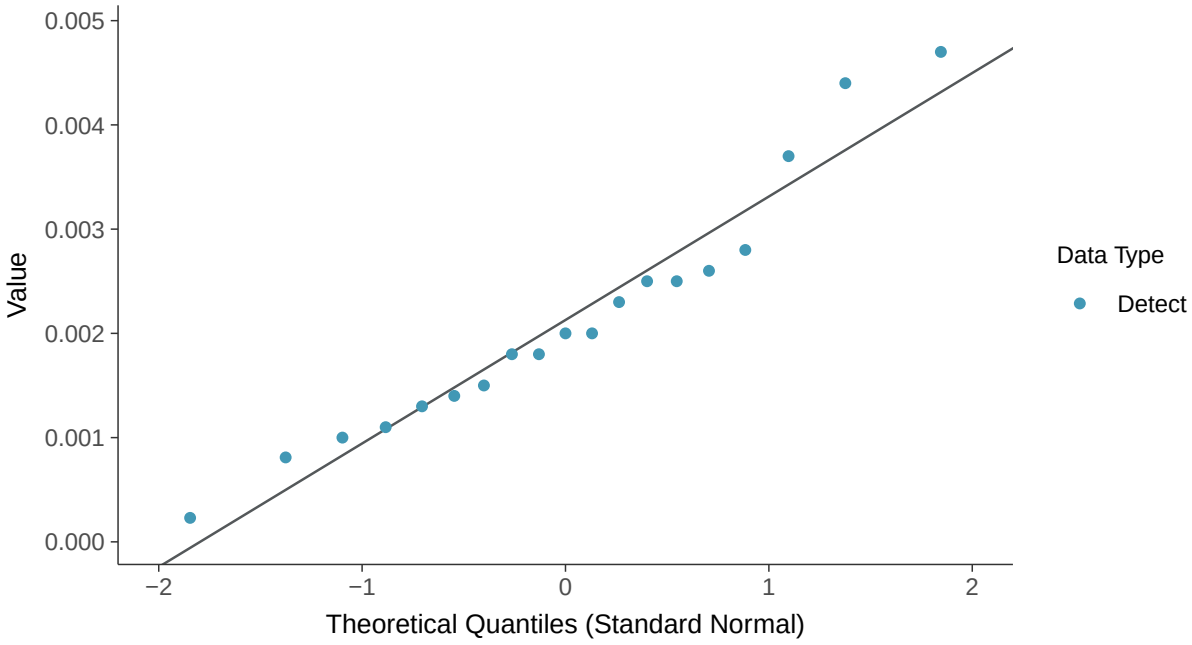
Boxplot by Season

Copper, MW-02 (mg/L)



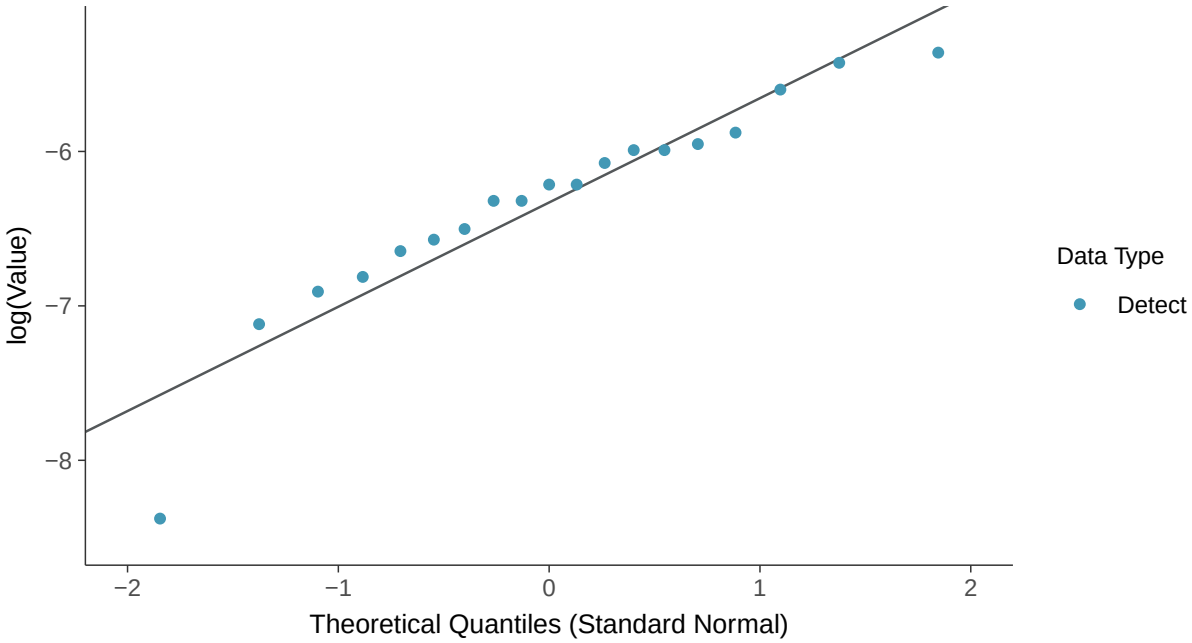
Normal Q-Q plot

Copper, MW-02 (mg/L)



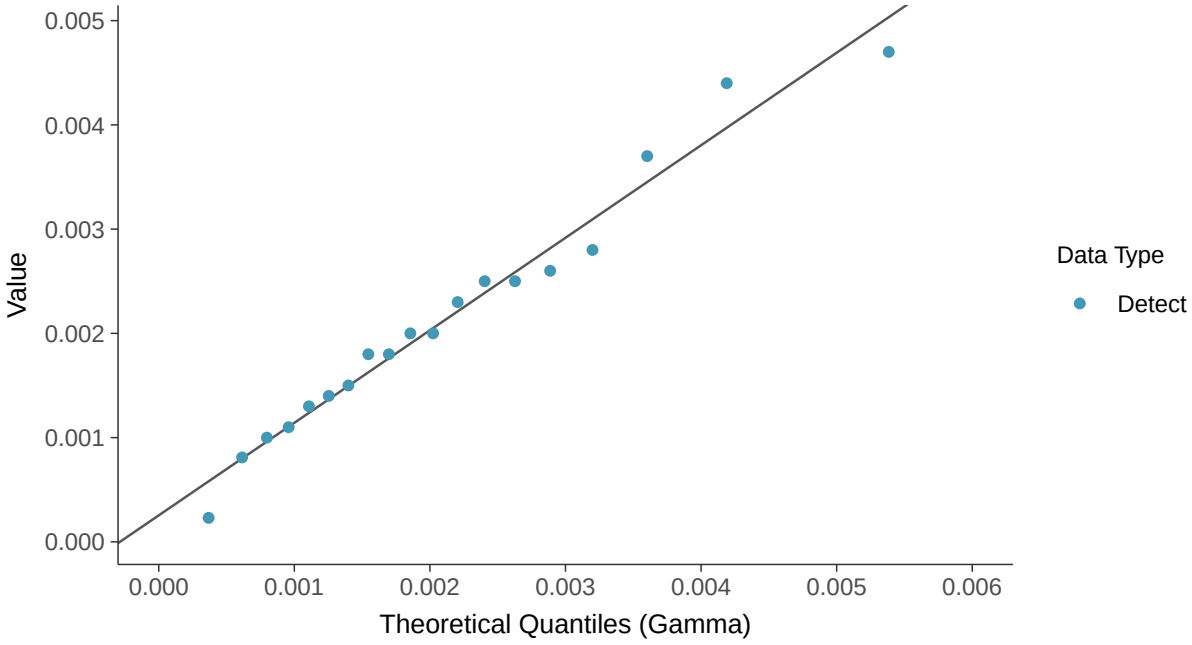
Lognormal Q-Q plot

Copper, MW-02 (mg/L)



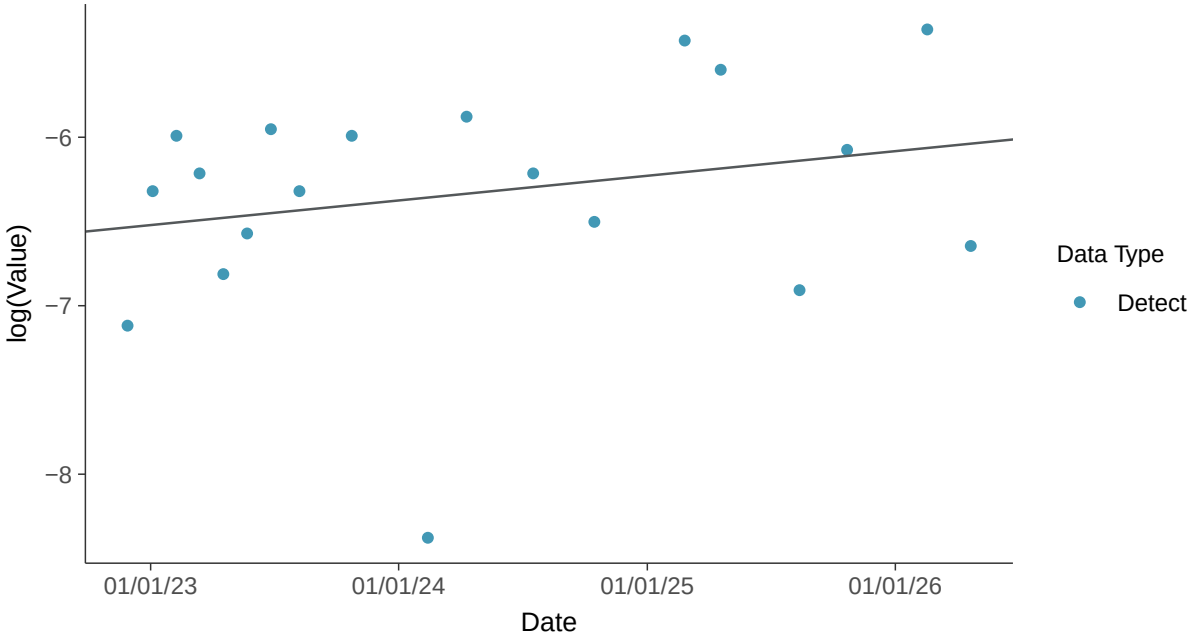
Gamma Q-Q plot

Copper, MW-02 (mg/L)



Trend Regression: Lognormal MLE

Copper, MW-02 (mg/L)

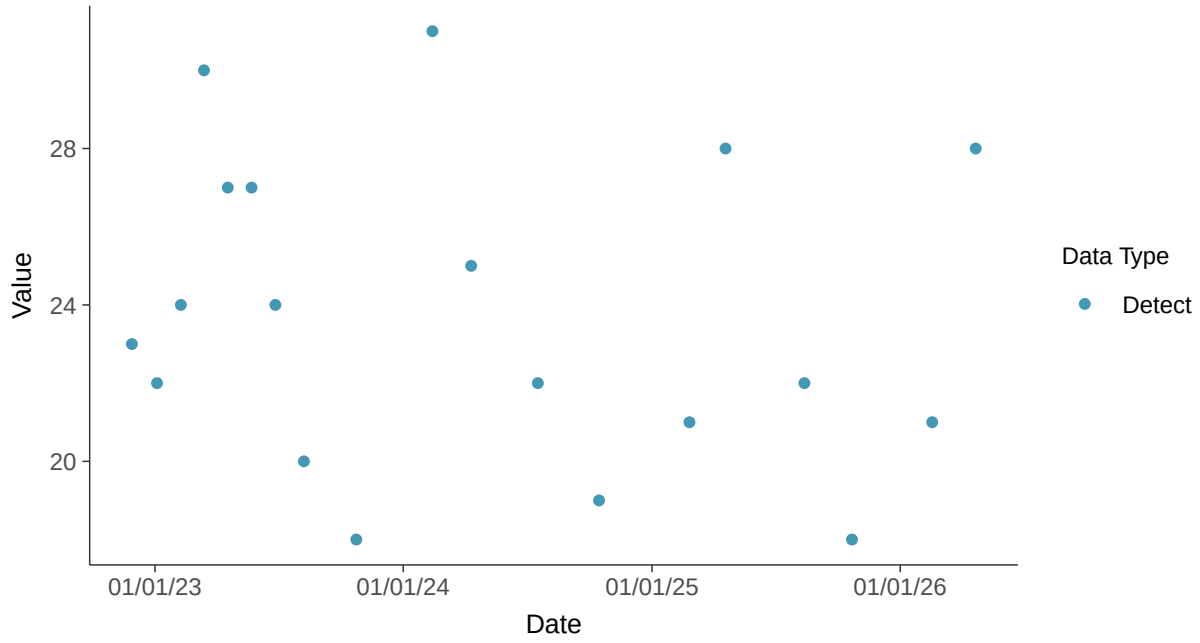


Part 115: Iron, MW-02

ID: 12_2_5_114

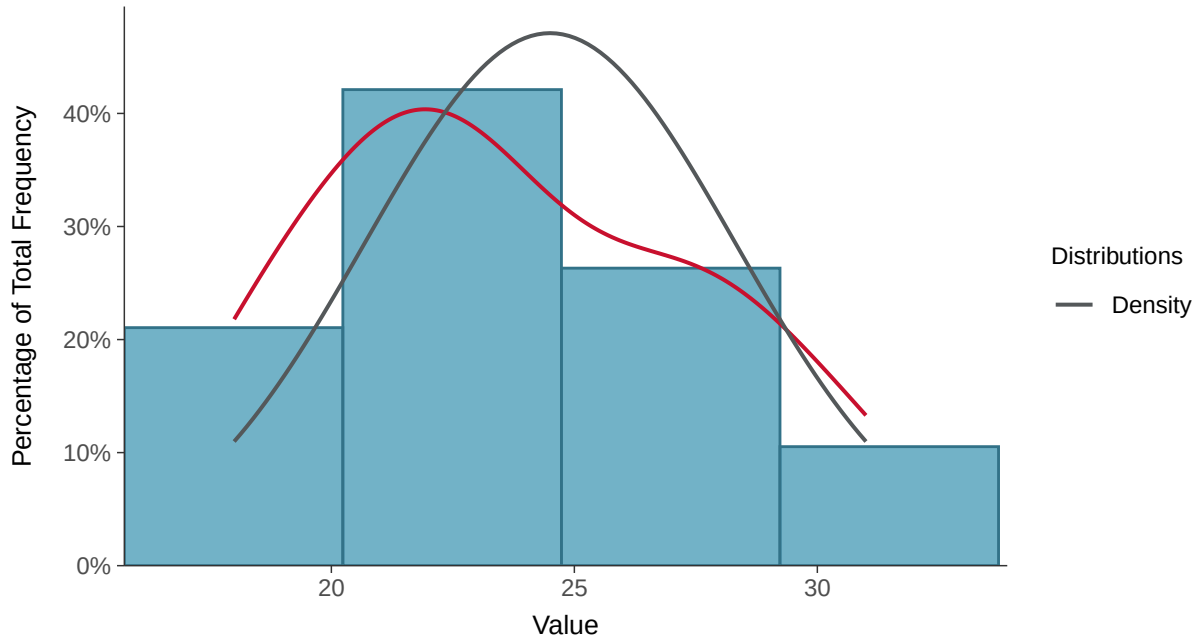
Scatter Plot

Iron, MW-02 (mg/L)



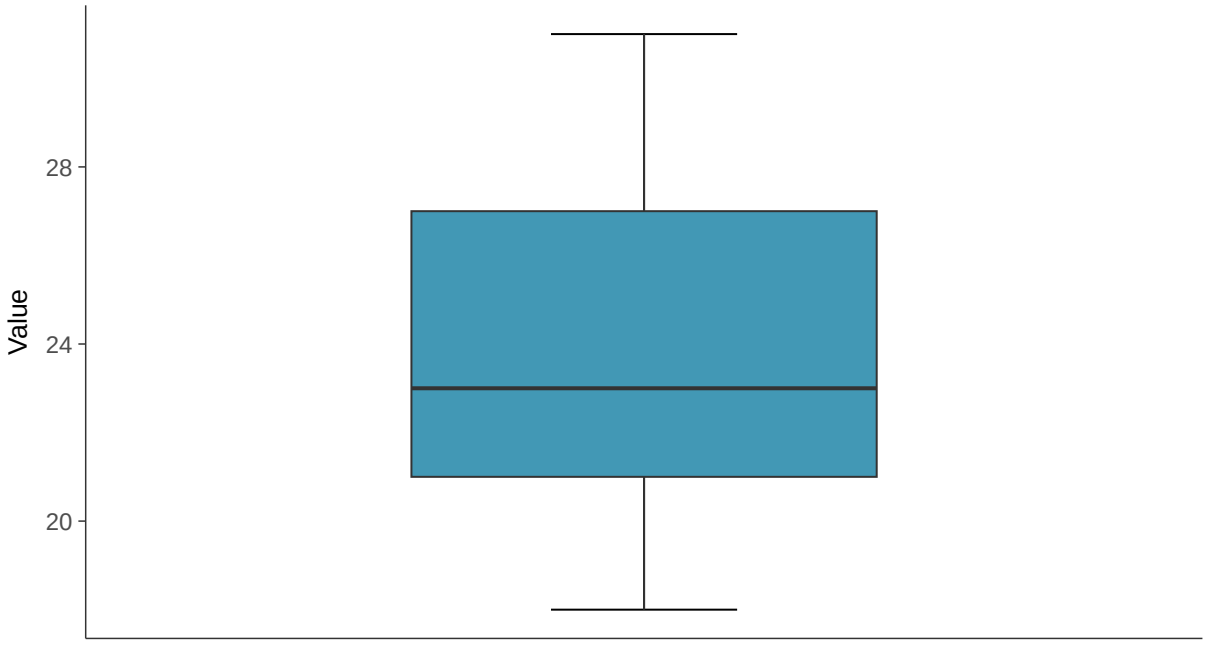
Histogram

Iron, MW-02 (mg/L)



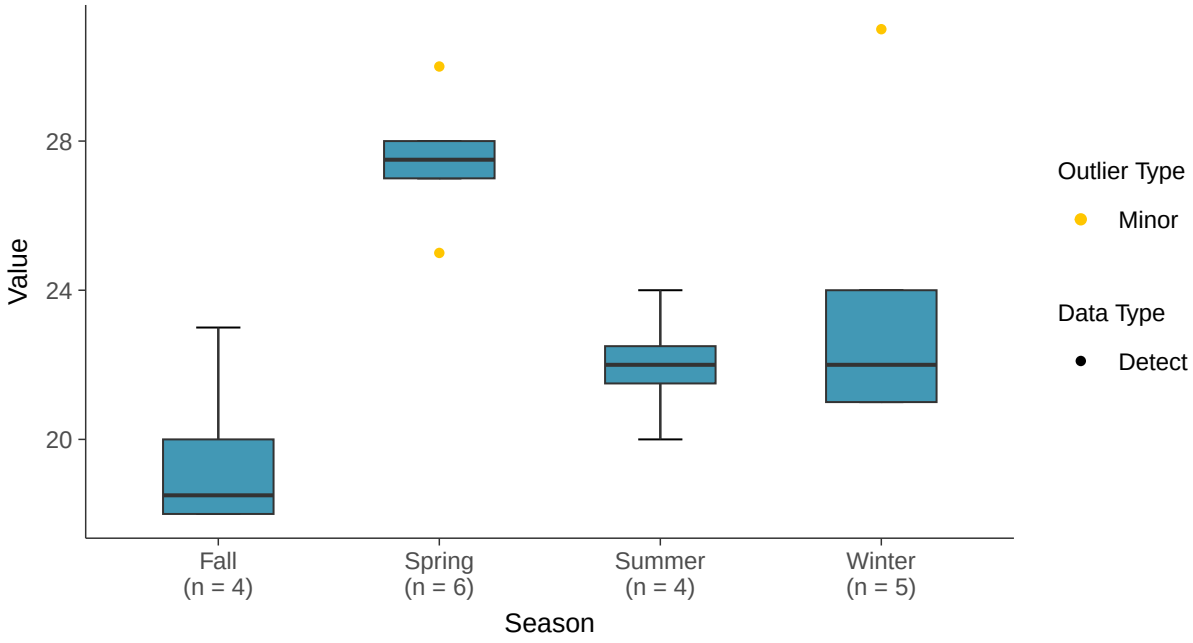
Boxplot

Iron, MW-02 (mg/L)



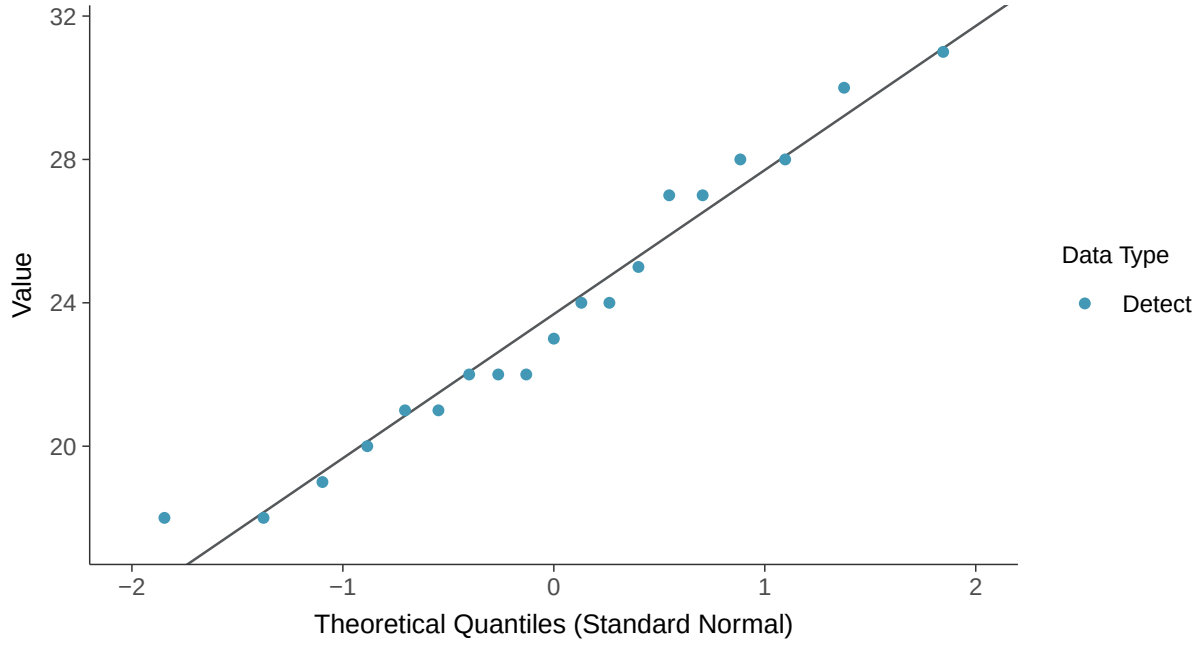
Boxplot by Season

Iron, MW-02 (mg/L)



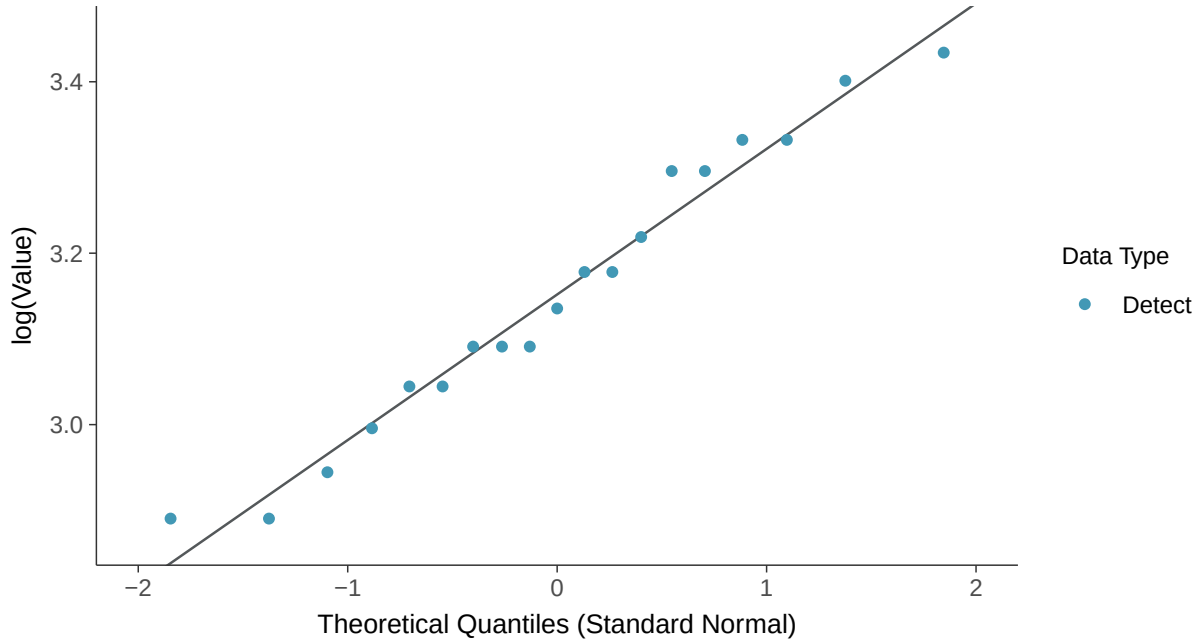
Normal Q-Q plot

Iron, MW-02 (mg/L)



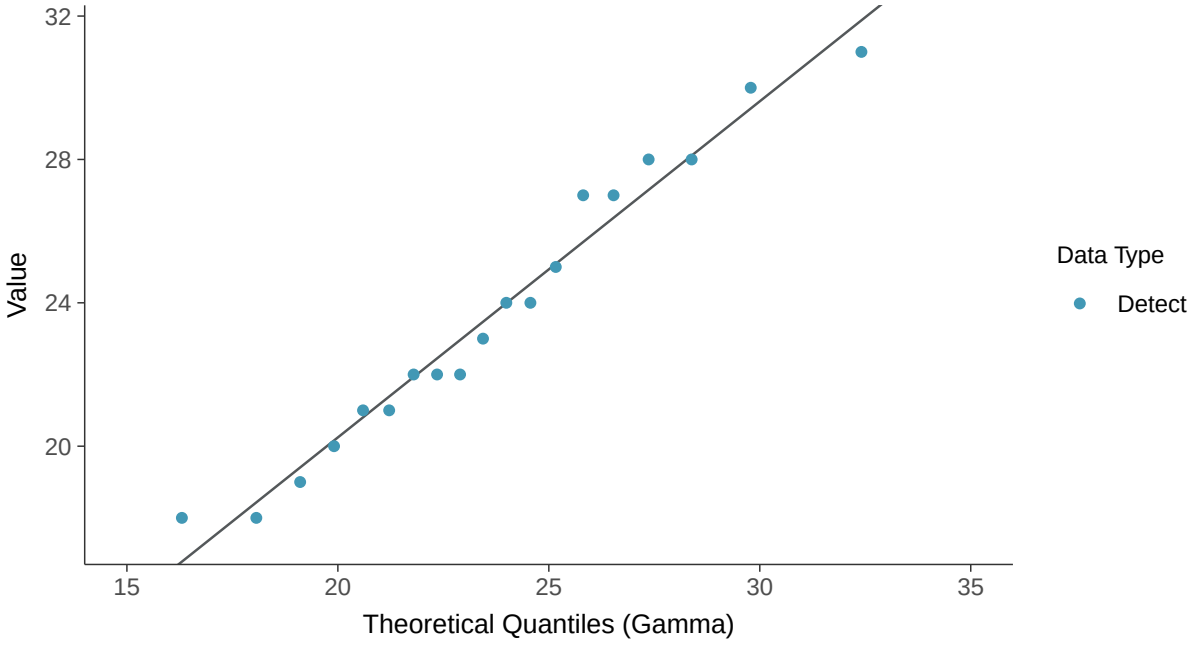
Lognormal Q-Q plot

Iron, MW-02 (mg/L)



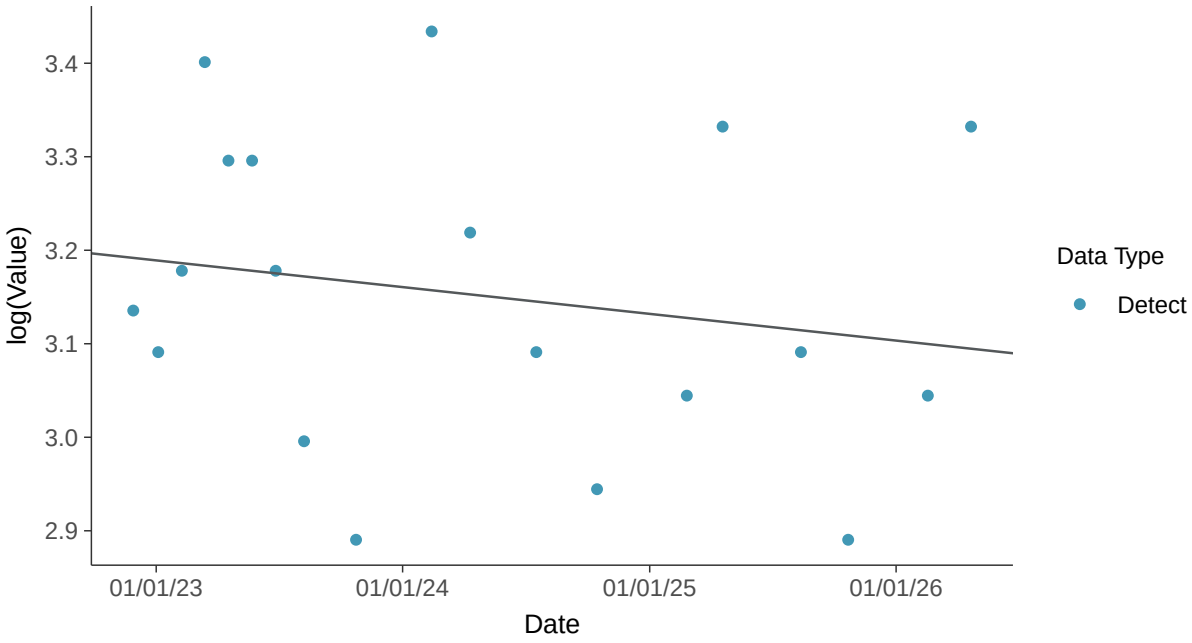
Gamma Q-Q plot

Iron, MW-02 (mg/L)



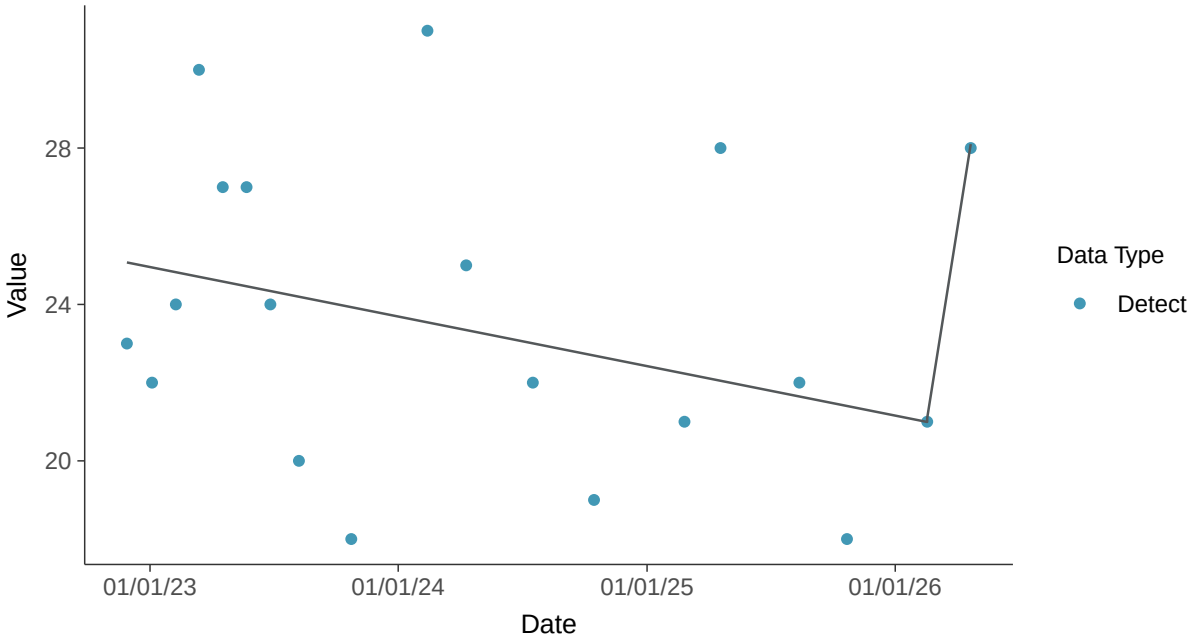
Trend Regression: Lognormal MLE

Iron, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear

Iron, MW-02 (mg/L)

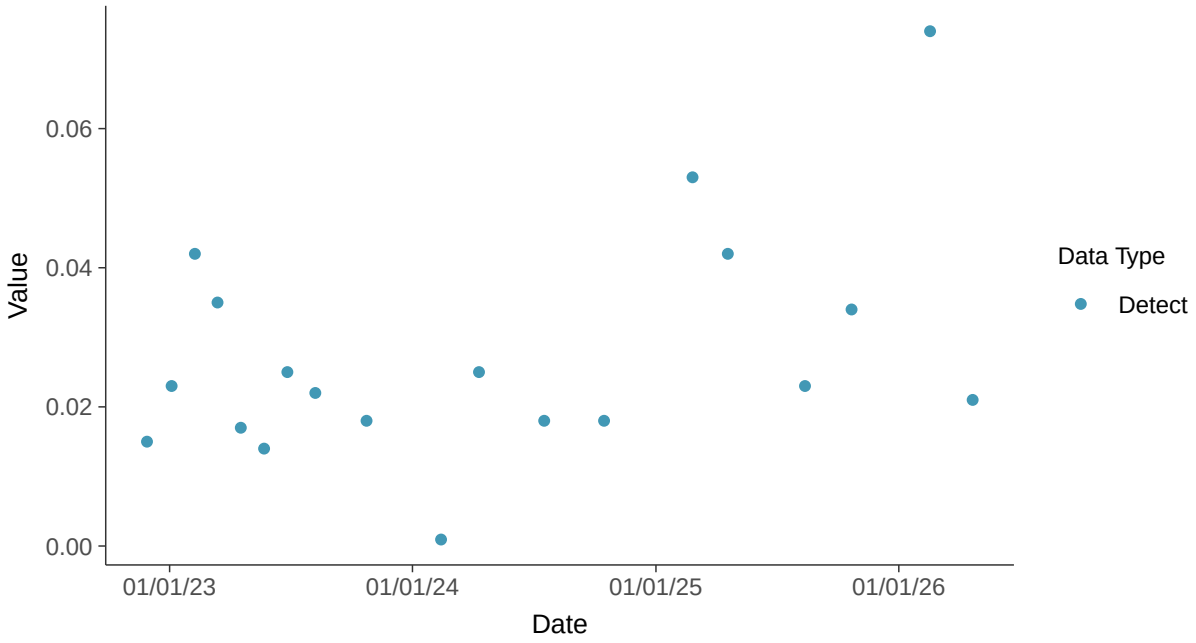


Part 115: Nickel, MW-02

ID: 12_2_5_119

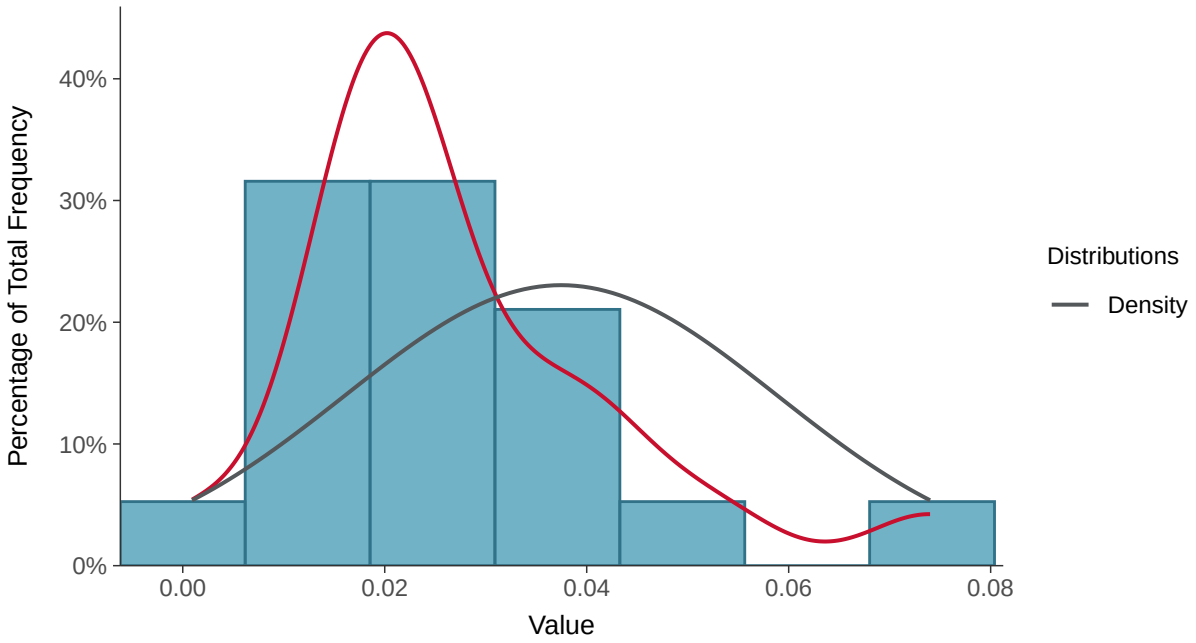
Scatter Plot

Nickel, MW-02 (mg/L)



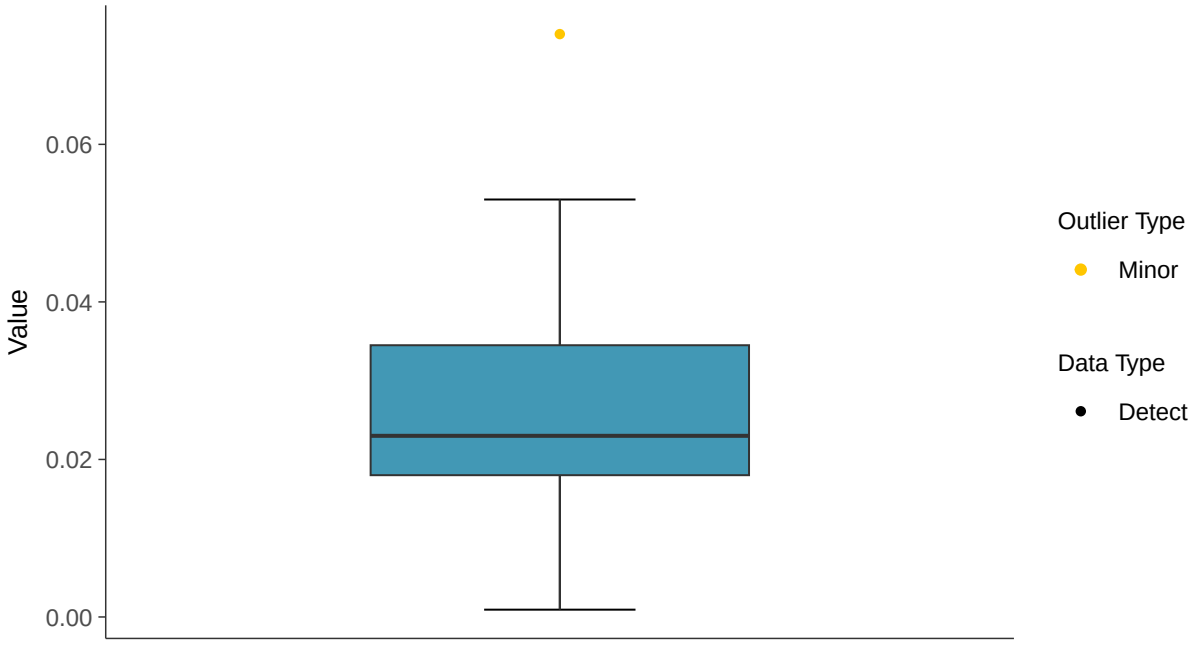
Histogram

Nickel, MW-02 (mg/L)



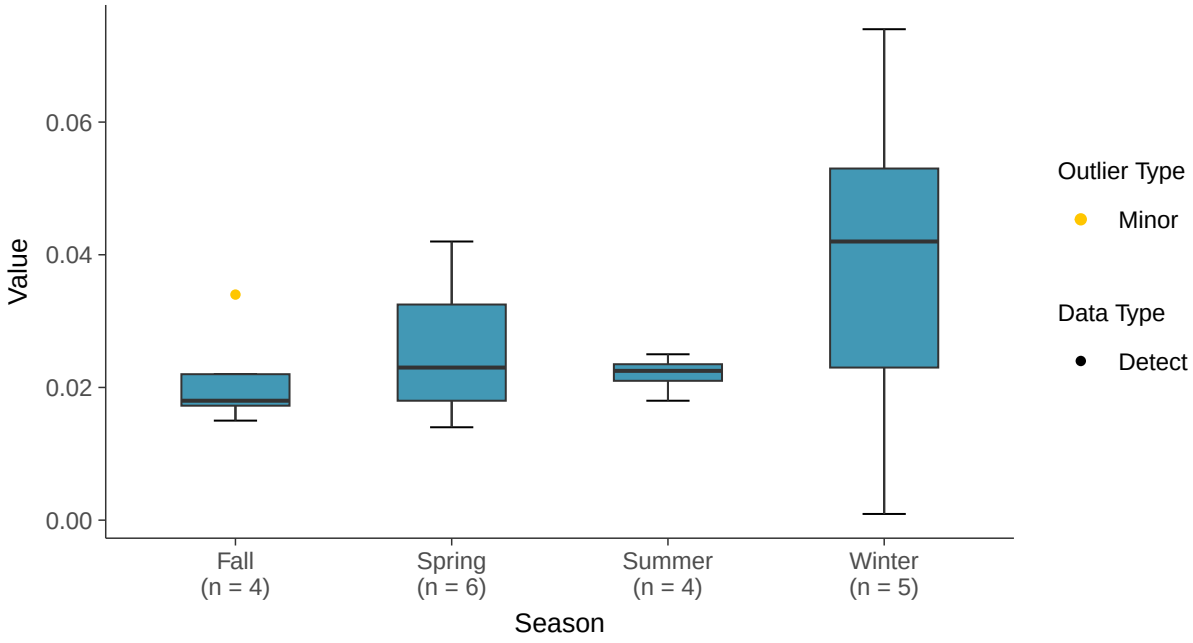
Boxplot

Nickel, MW-02 (mg/L)



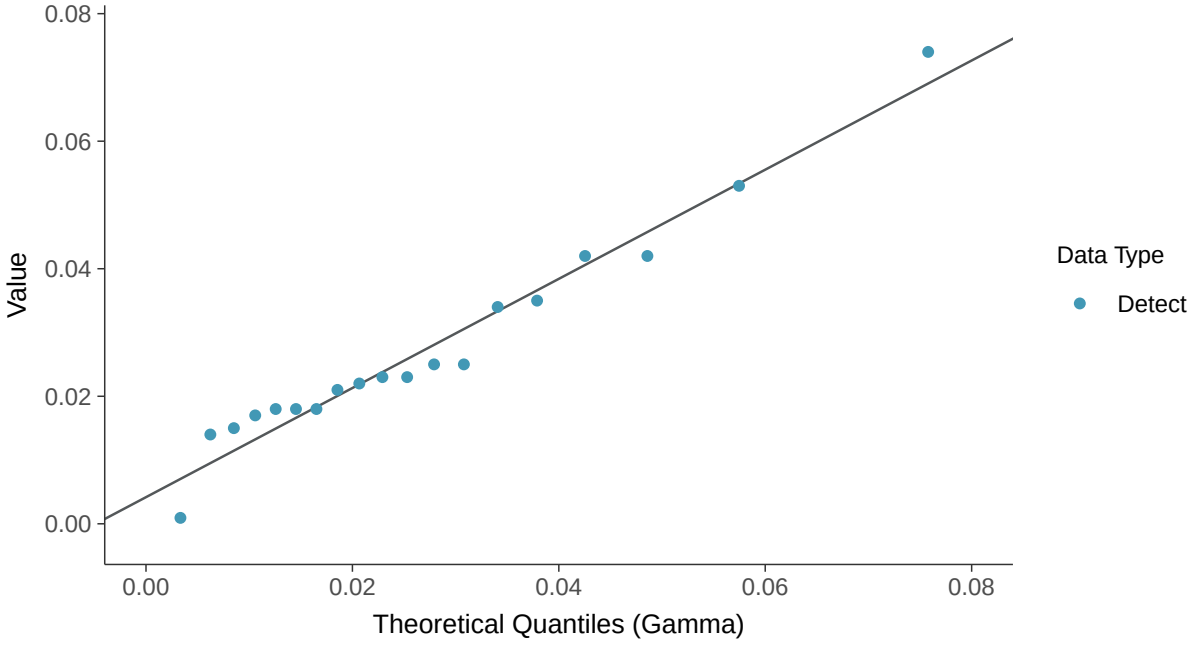
Boxplot by Season

Nickel, MW-02 (mg/L)



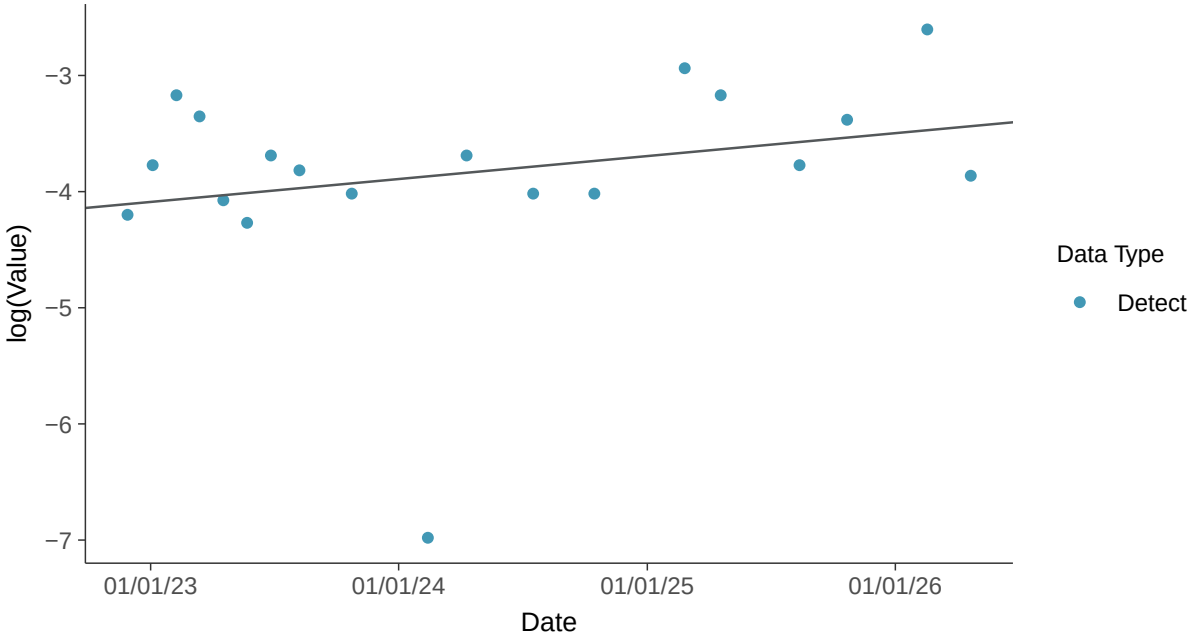
Gamma Q-Q plot

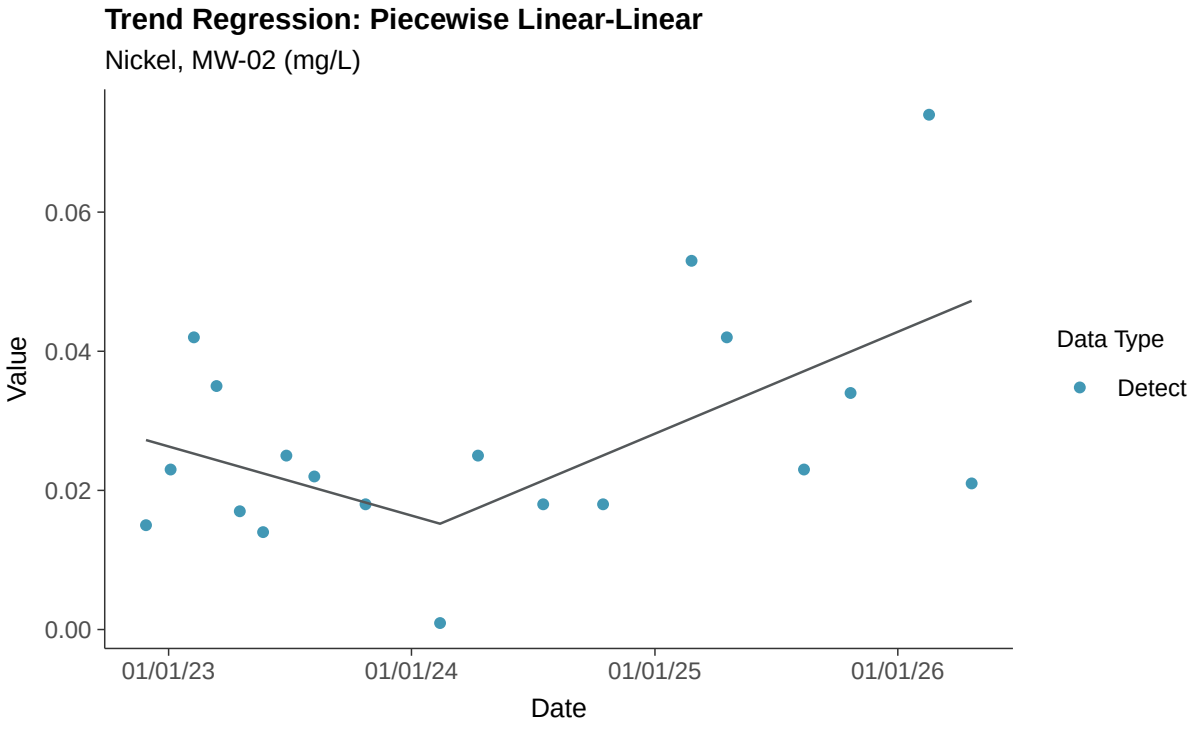
Nickel, MW-02 (mg/L)



Trend Regression: Lognormal MLE

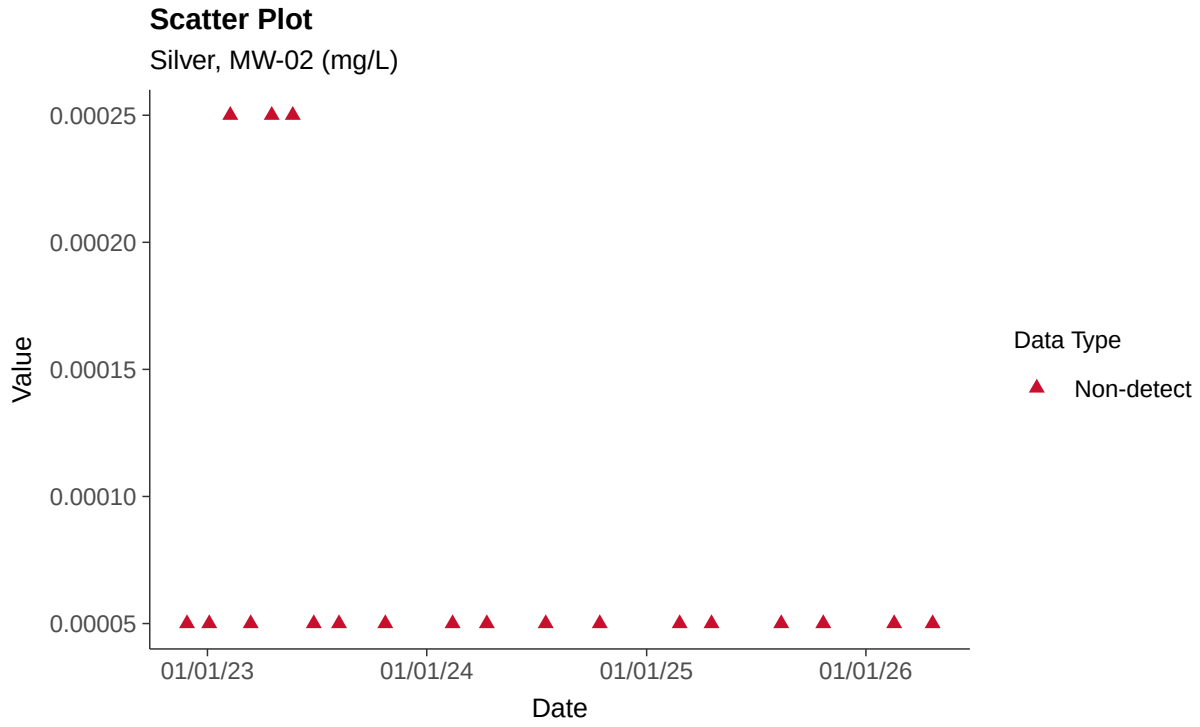
Nickel, MW-02 (mg/L)

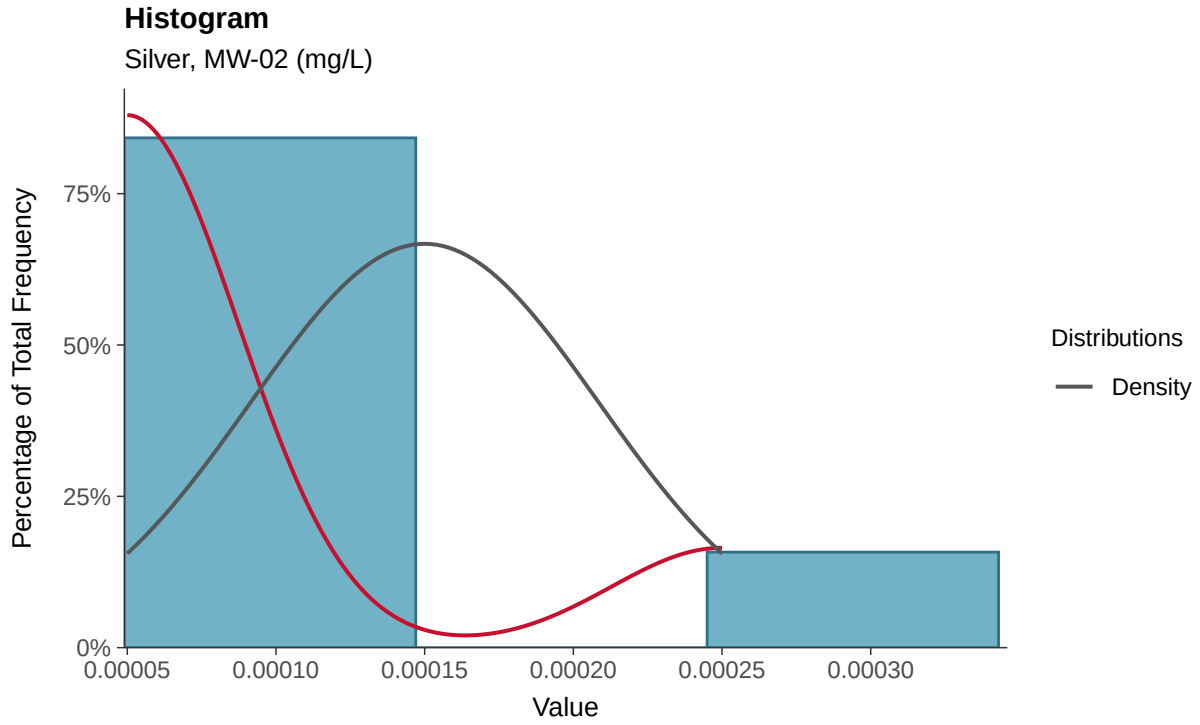



Trend Regression: Piecewise Linear-Linear
Nickel, MW-02 (mg/L)
Value
0.06
0.04
0.02
0.00
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Part 115: Silver, MW-02

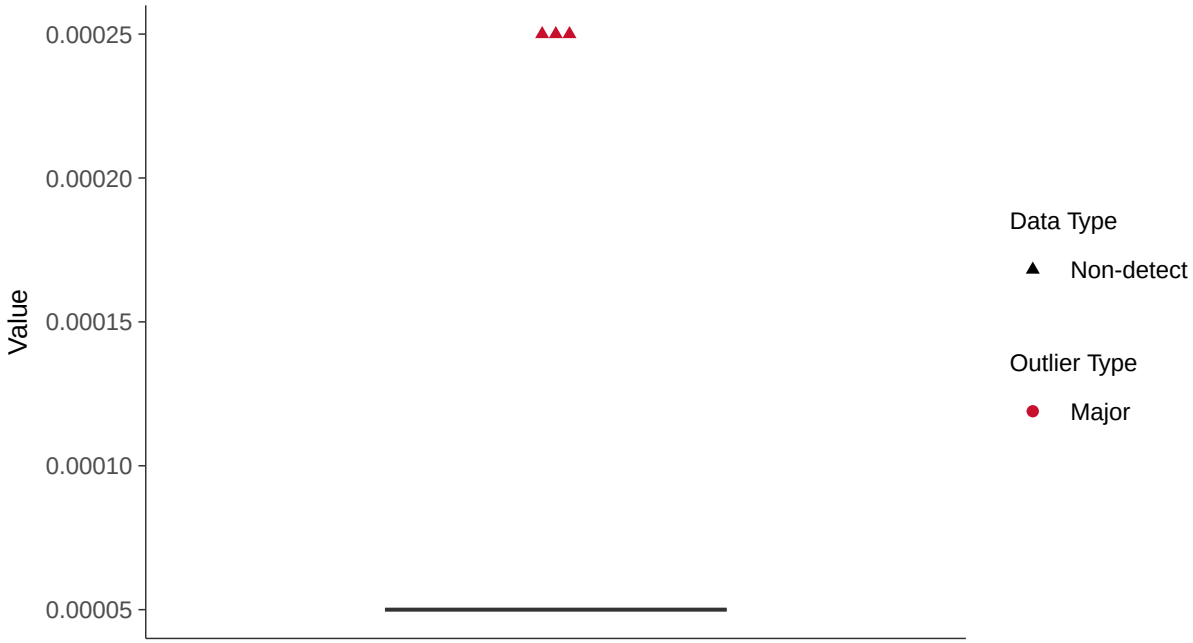
ID: 12_2_5_123





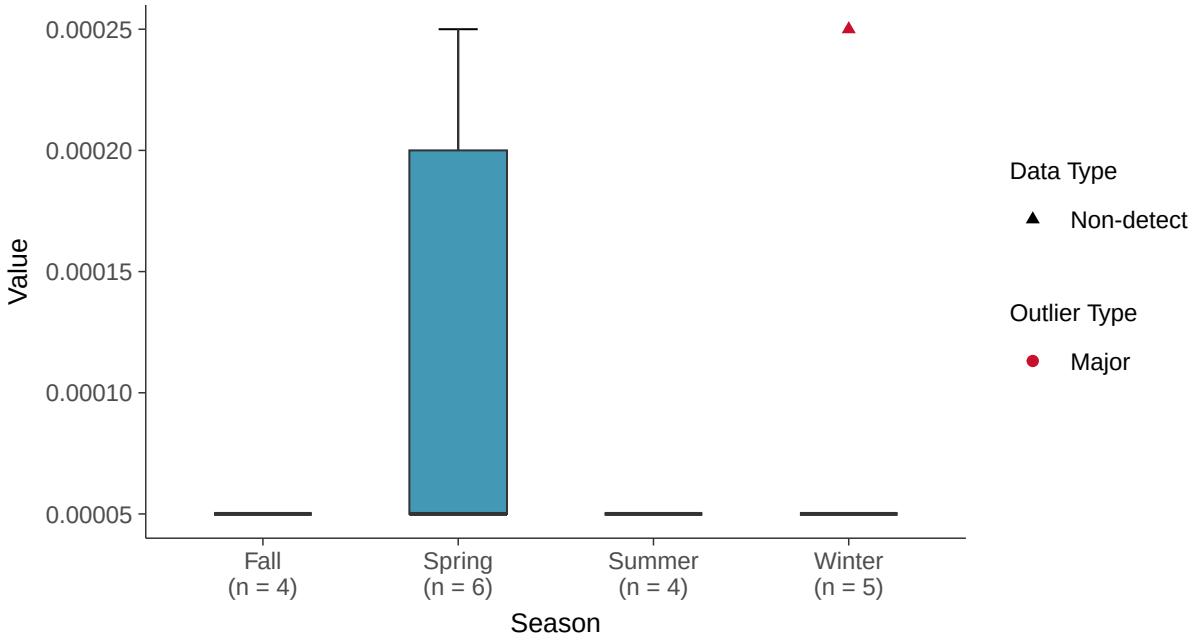
Boxplot

Silver, MW-02 (mg/L)



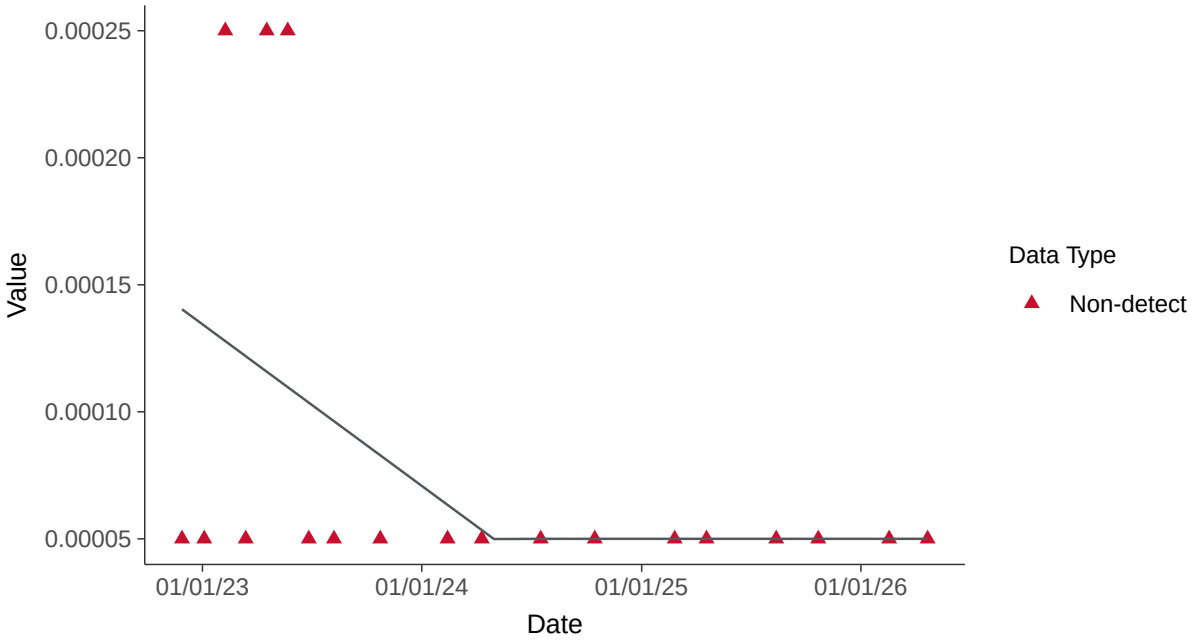
Boxplot by Season

Silver, MW-02 (mg/L)



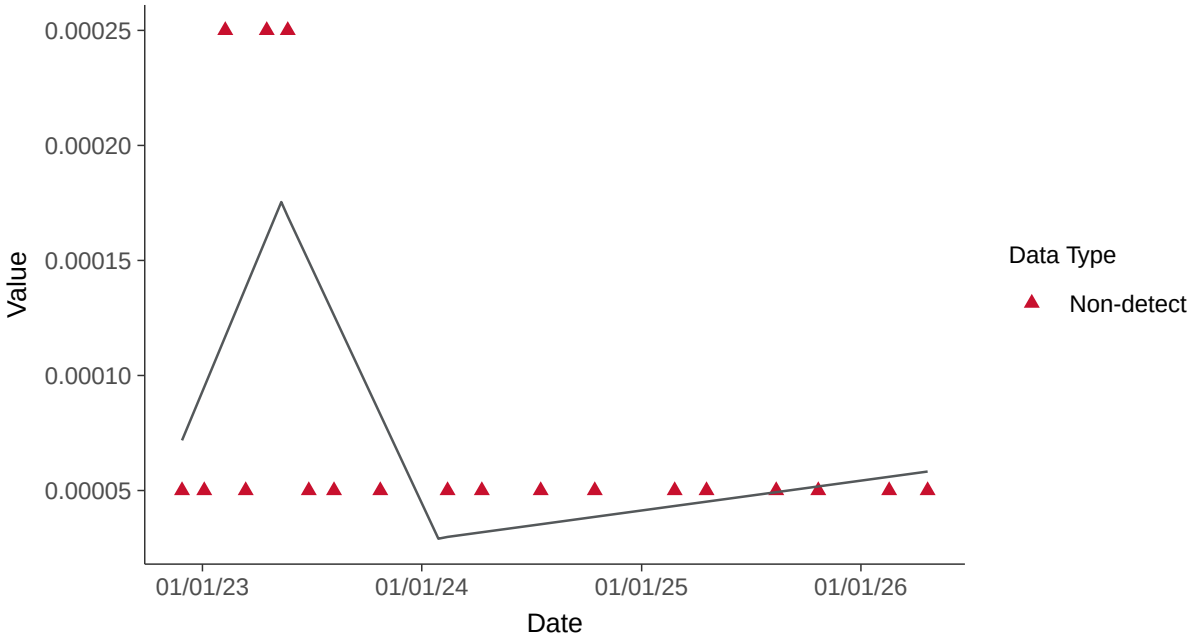
Trend Regression: Piecewise Linear-Linear

Silver, MW-02 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-02 (mg/L)

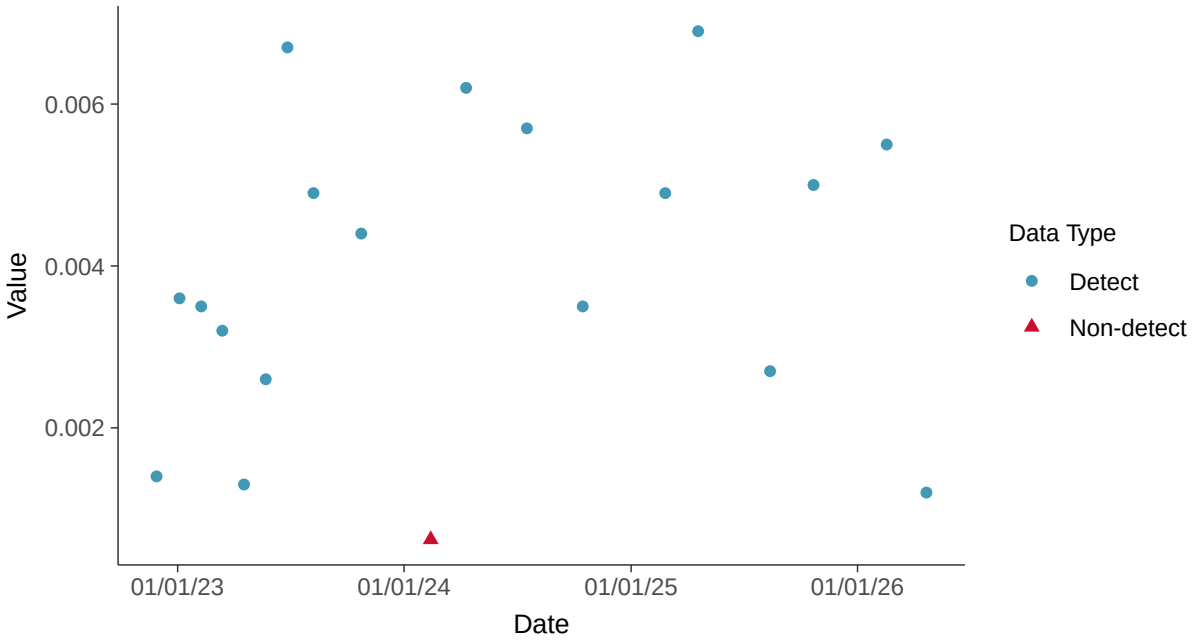


Part 115: Vanadium, MW-02

ID: 12_2_5_128

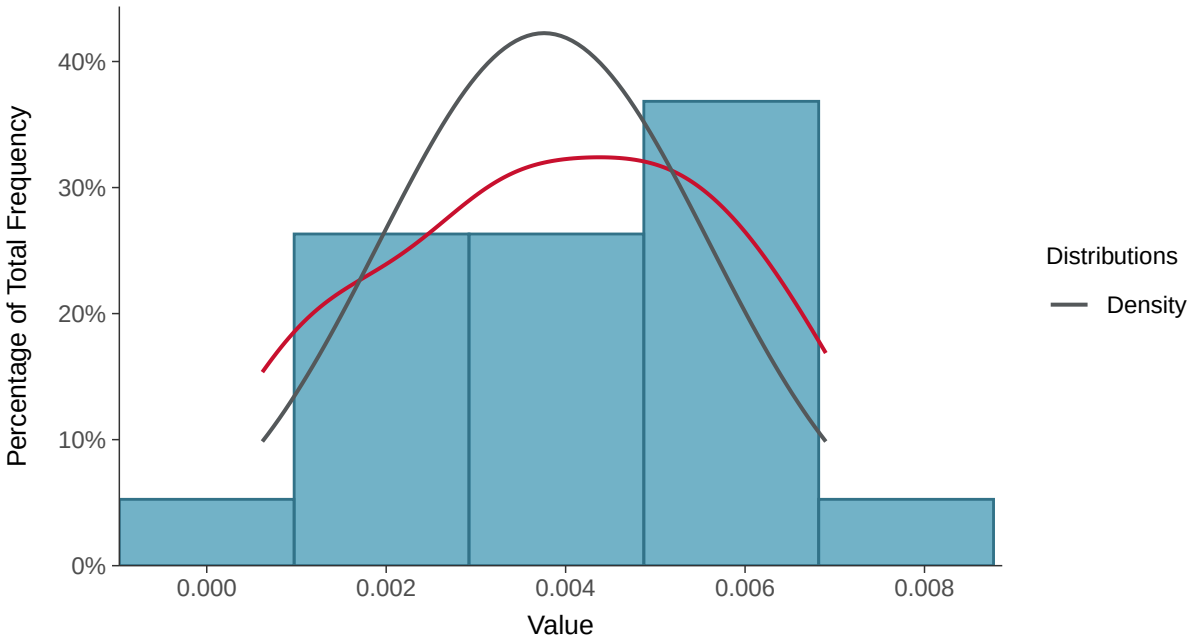
Scatter Plot

Vanadium, MW-02 (mg/L)



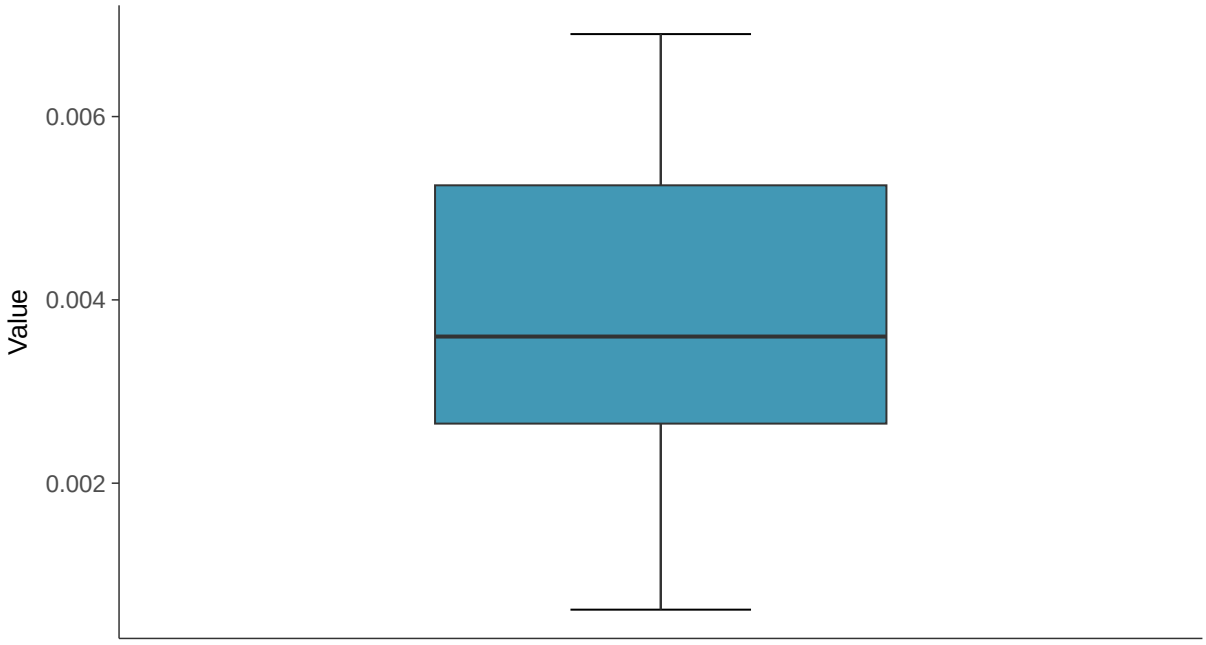
Histogram

Vanadium, MW-02 (mg/L)



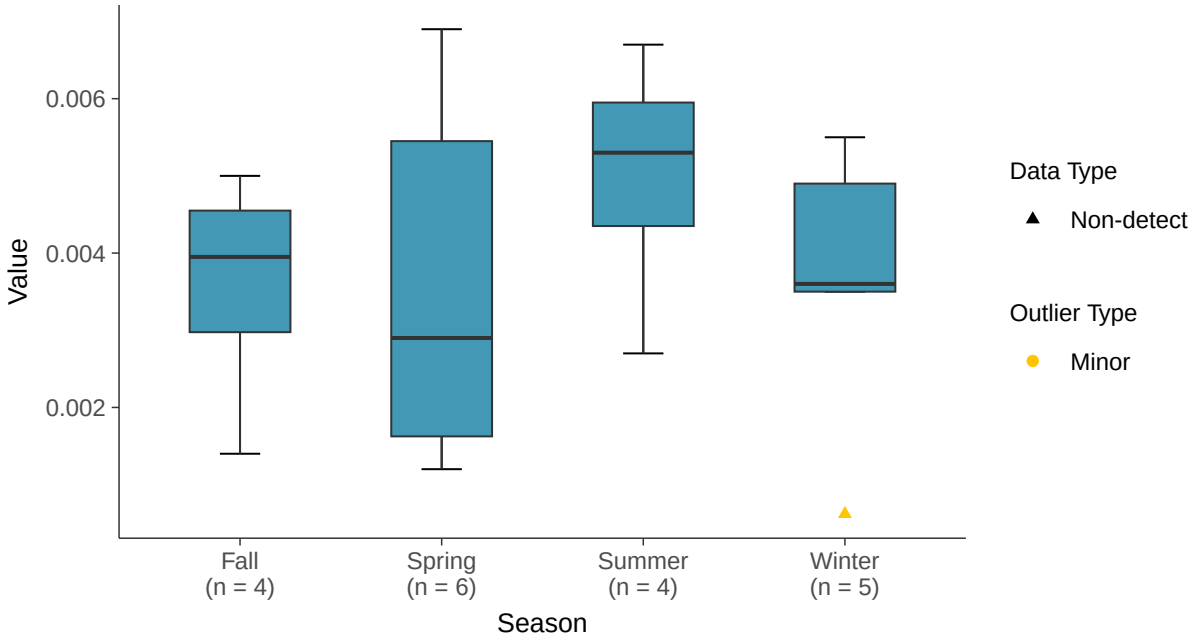
Boxplot

Vanadium, MW-02 (mg/L)



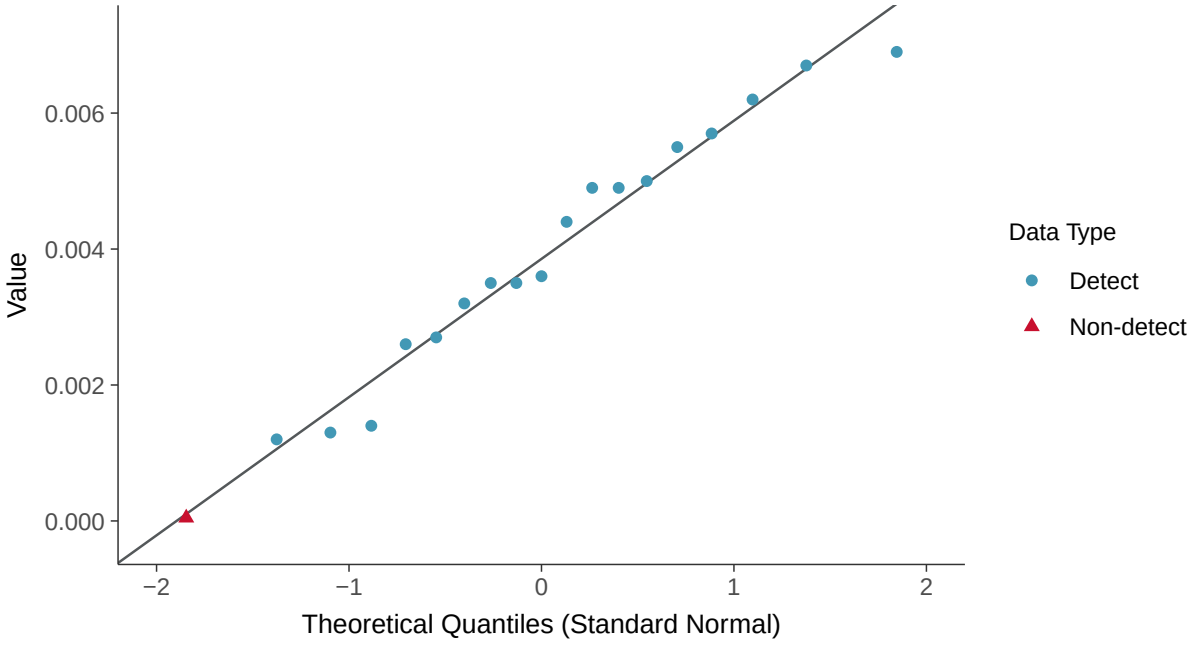
Boxplot by Season

Vanadium, MW-02 (mg/L)



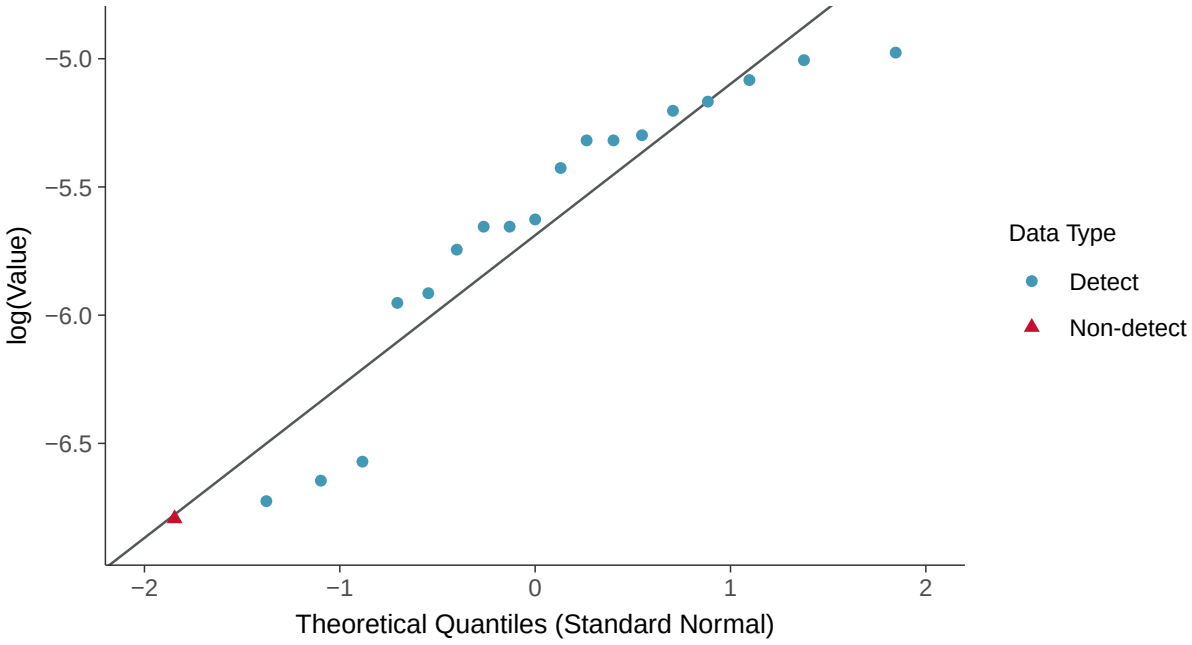
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



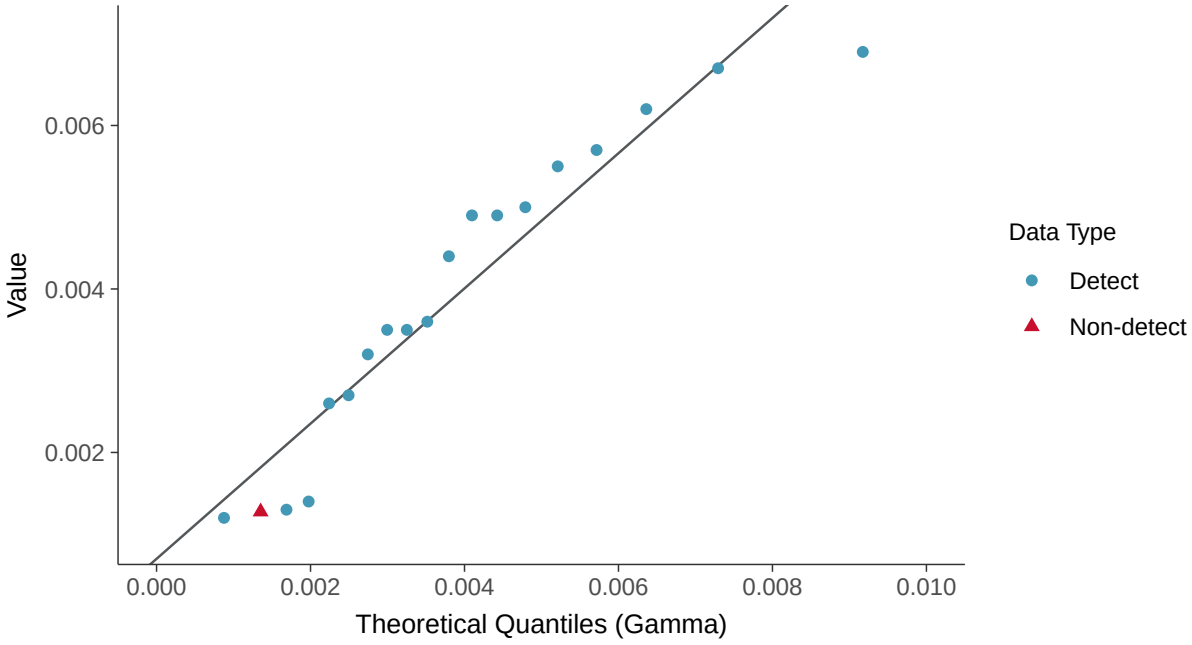
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



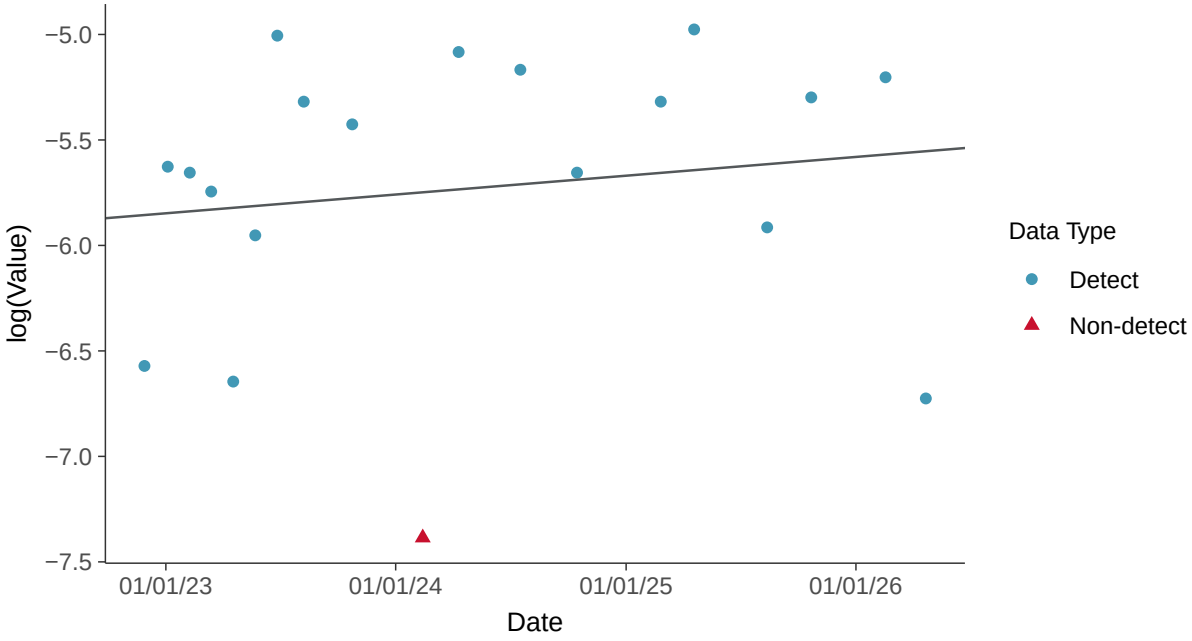
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-02 (mg/L)



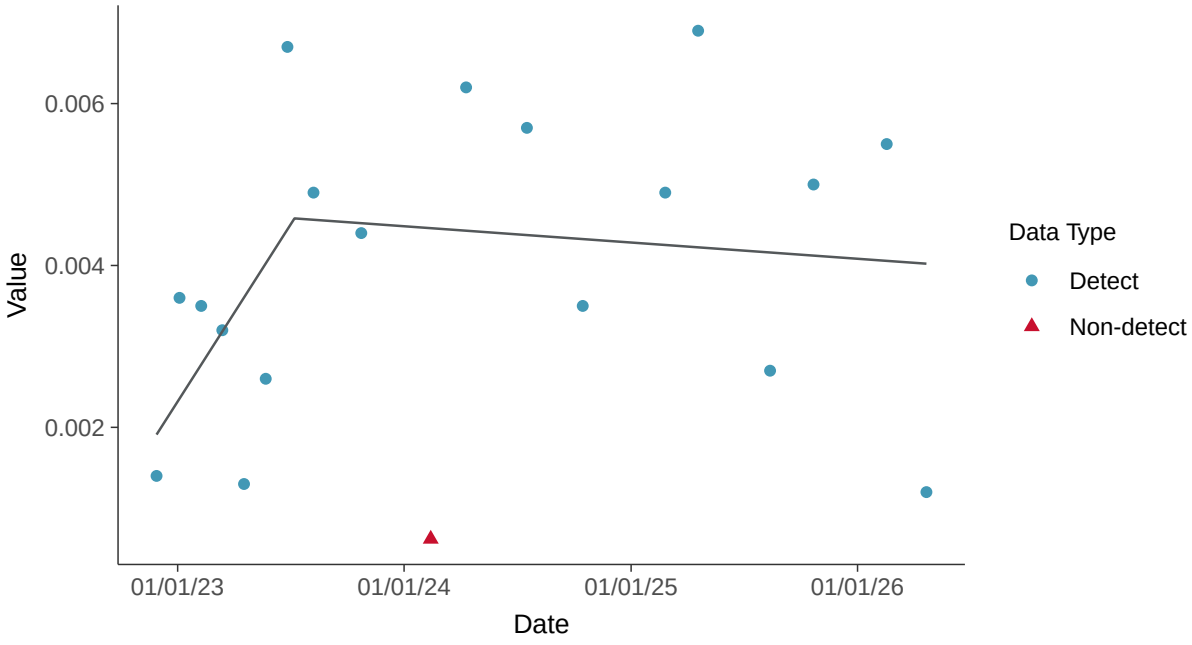
Trend Regression: Lognormal MLE

Vanadium, MW-02 (mg/L)



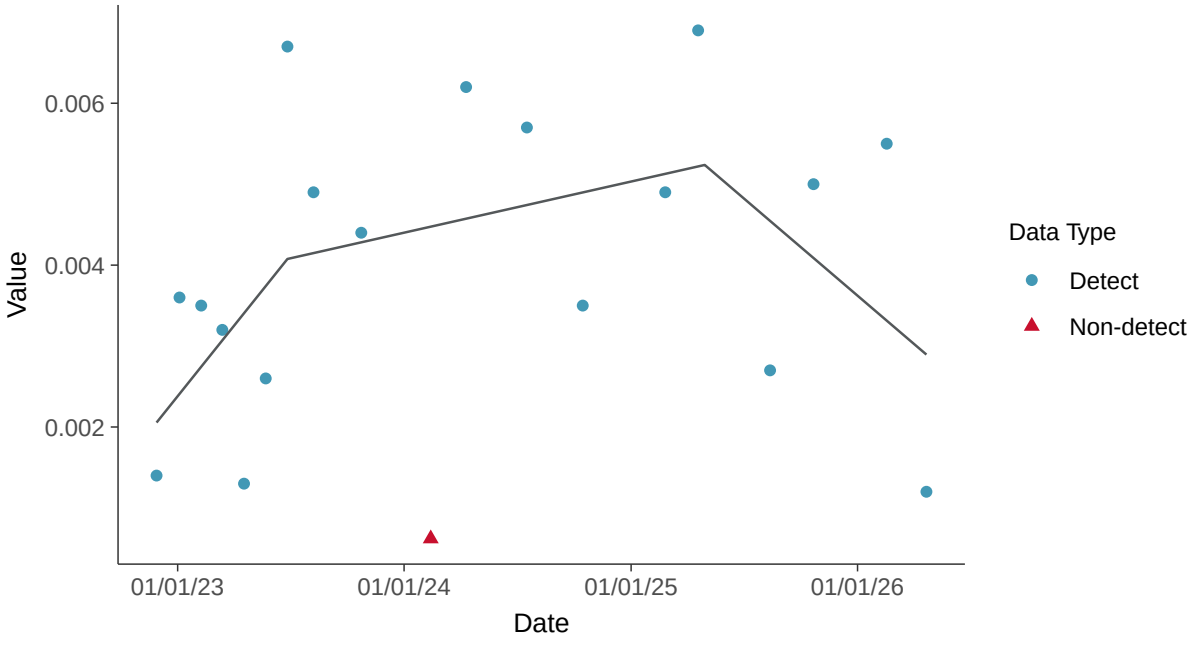
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-02 (mg/L)



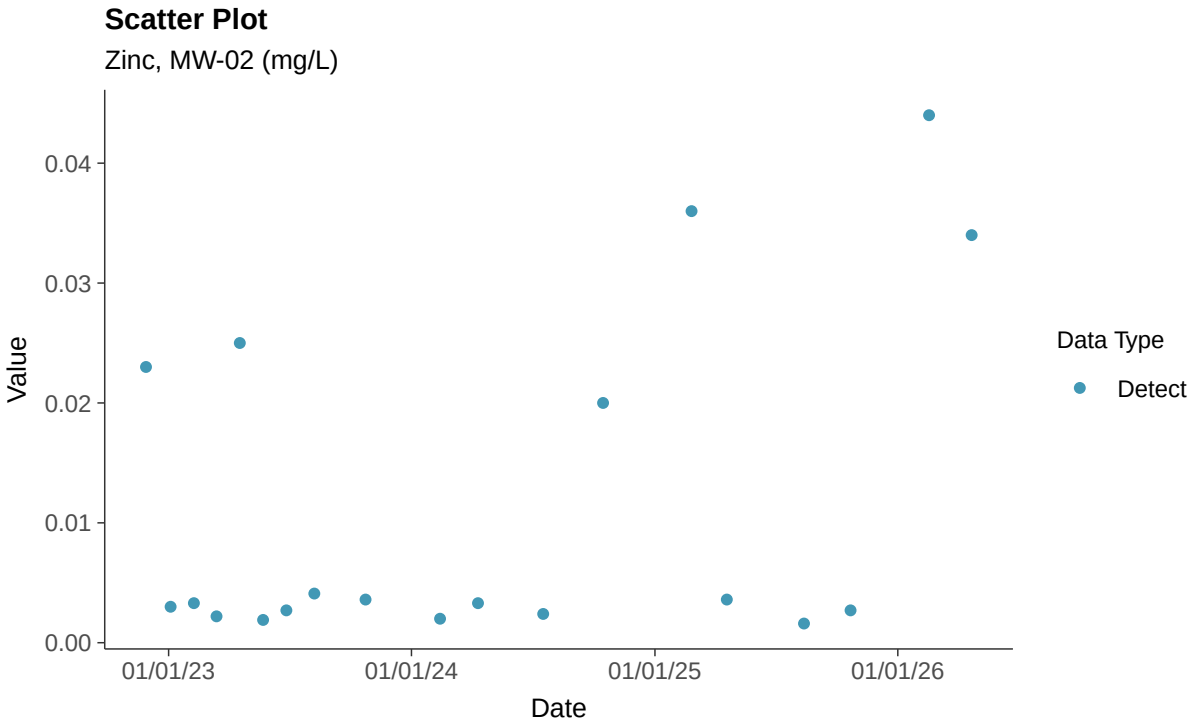
Trend Regression: Piecewise Linear-Linear-Linear

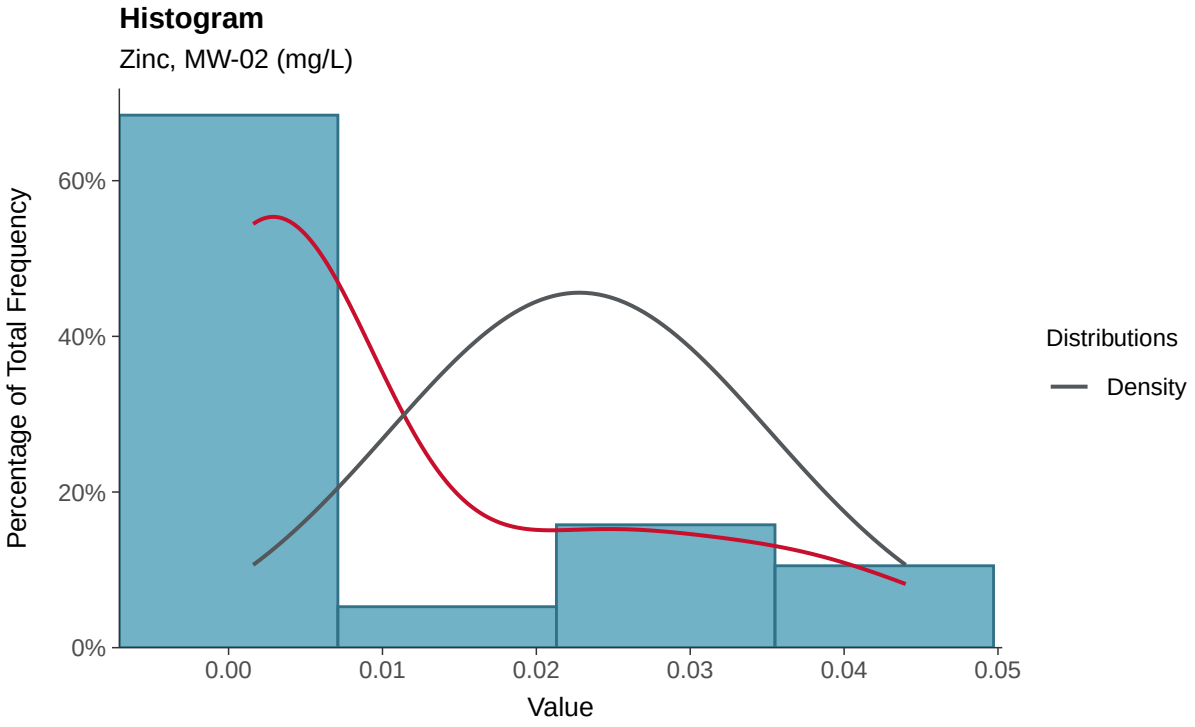
Vanadium, MW-02 (mg/L)



Part 115: Zinc, MW-02

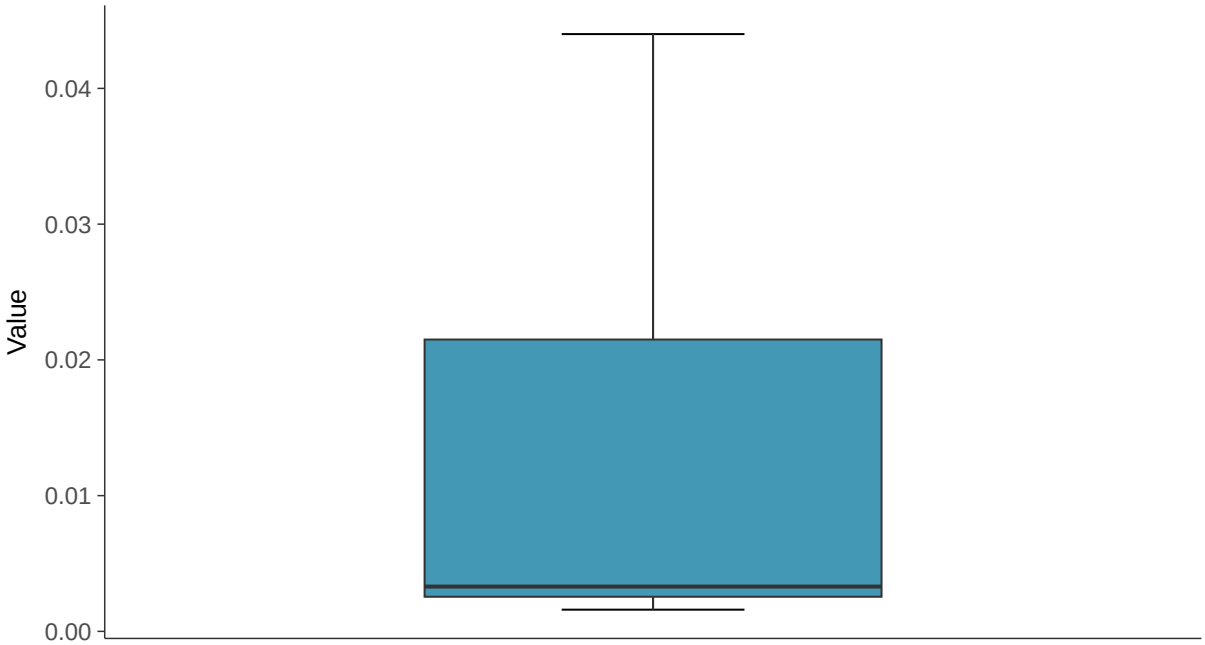
ID: 12_2_5_129





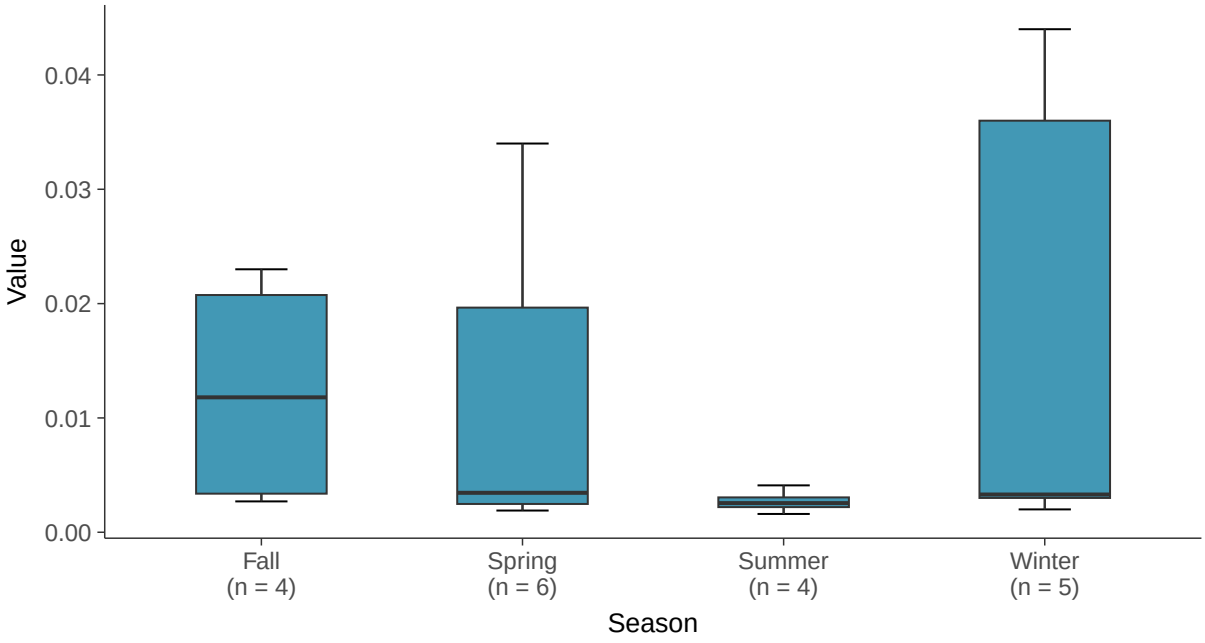
Boxplot

Zinc, MW-02 (mg/L)



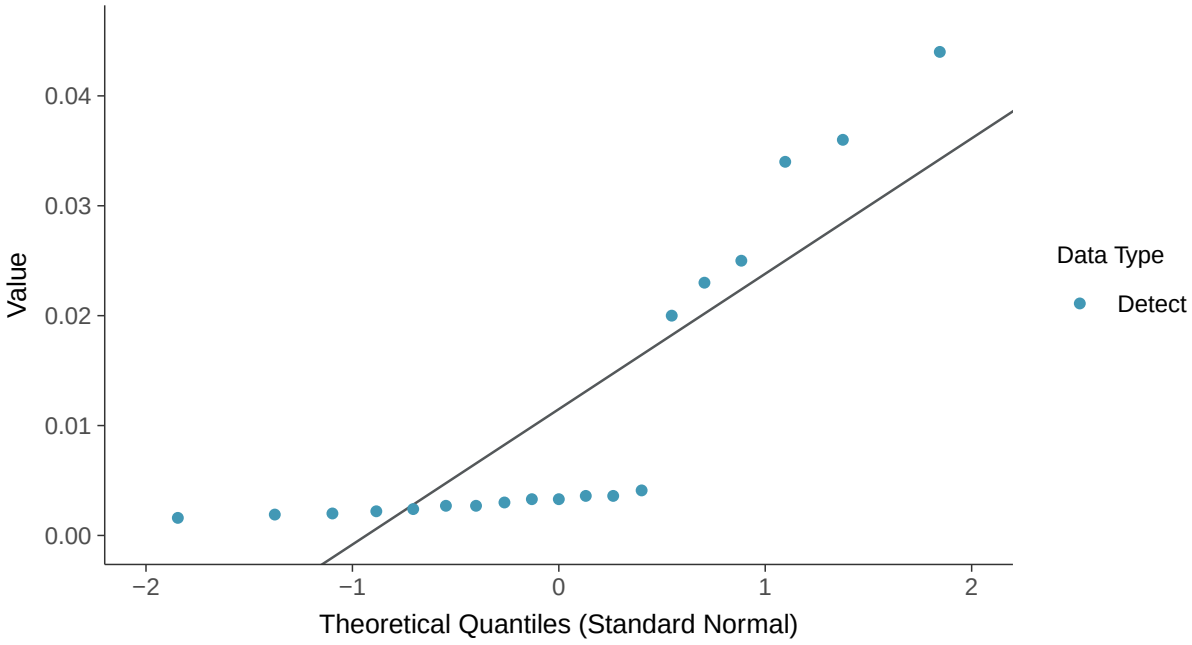
Boxplot by Season

Zinc, MW-02 (mg/L)



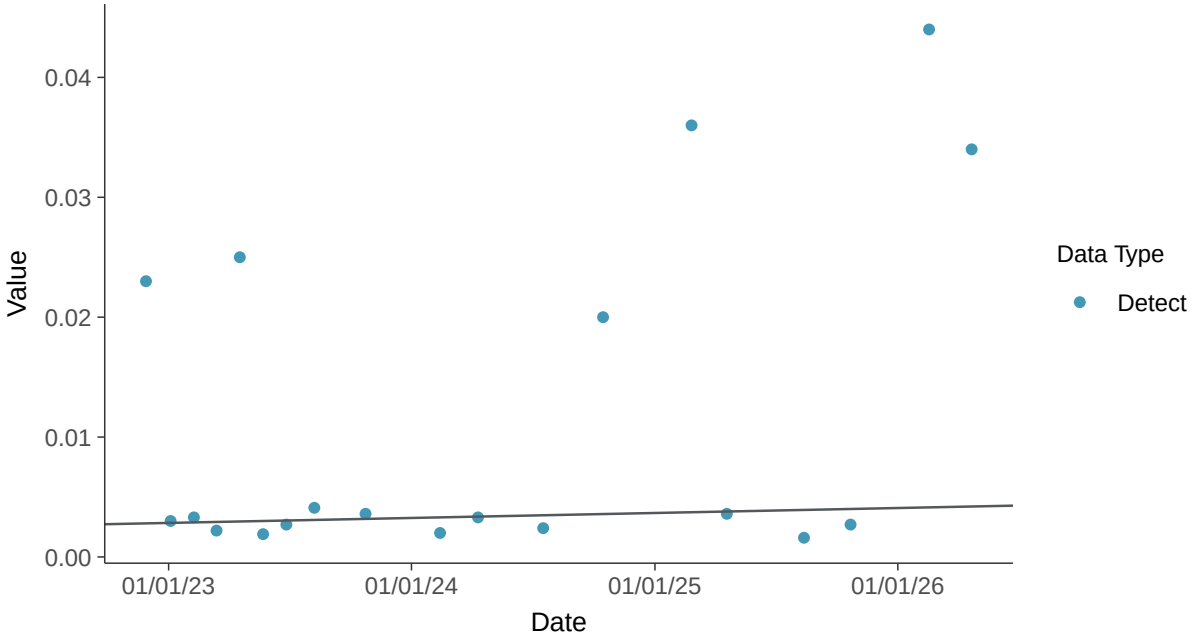
Normal Q-Q plot

Zinc, MW-02 (mg/L)



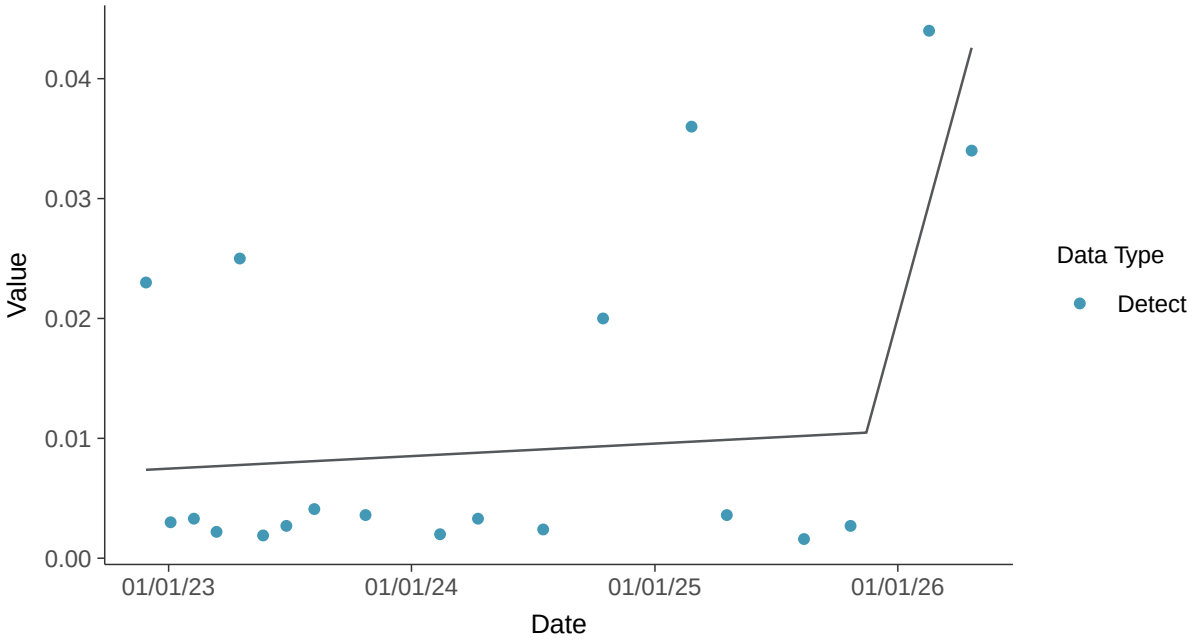
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-02 (mg/L)



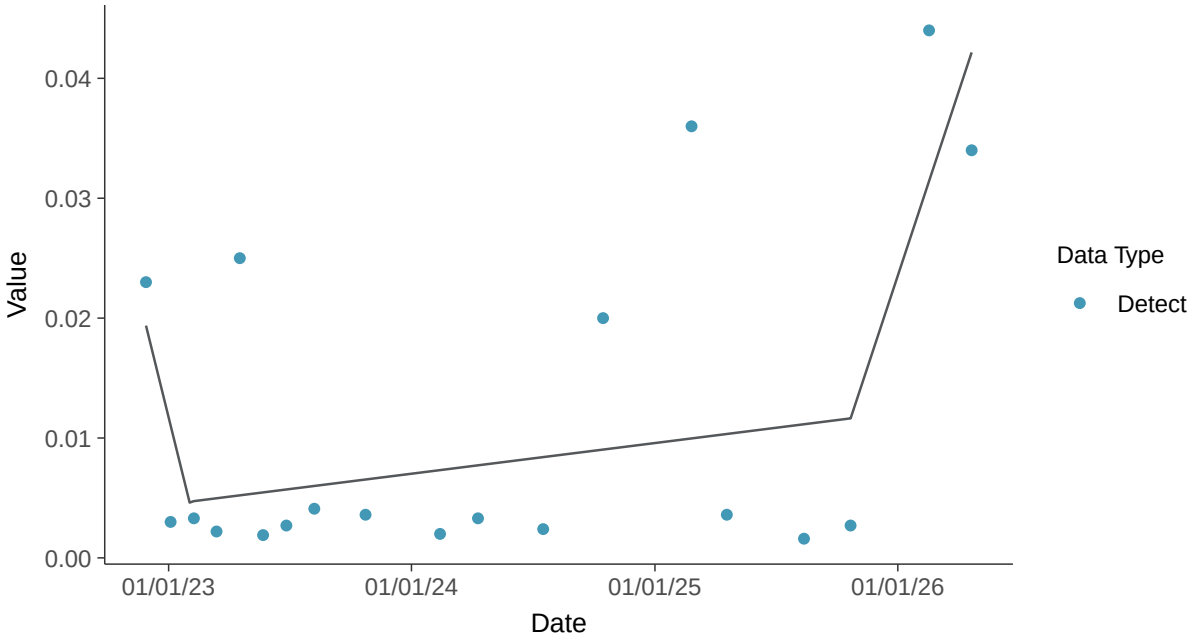
Trend Regression: Piecewise Linear-Linear

Zinc, MW-02 (mg/L)



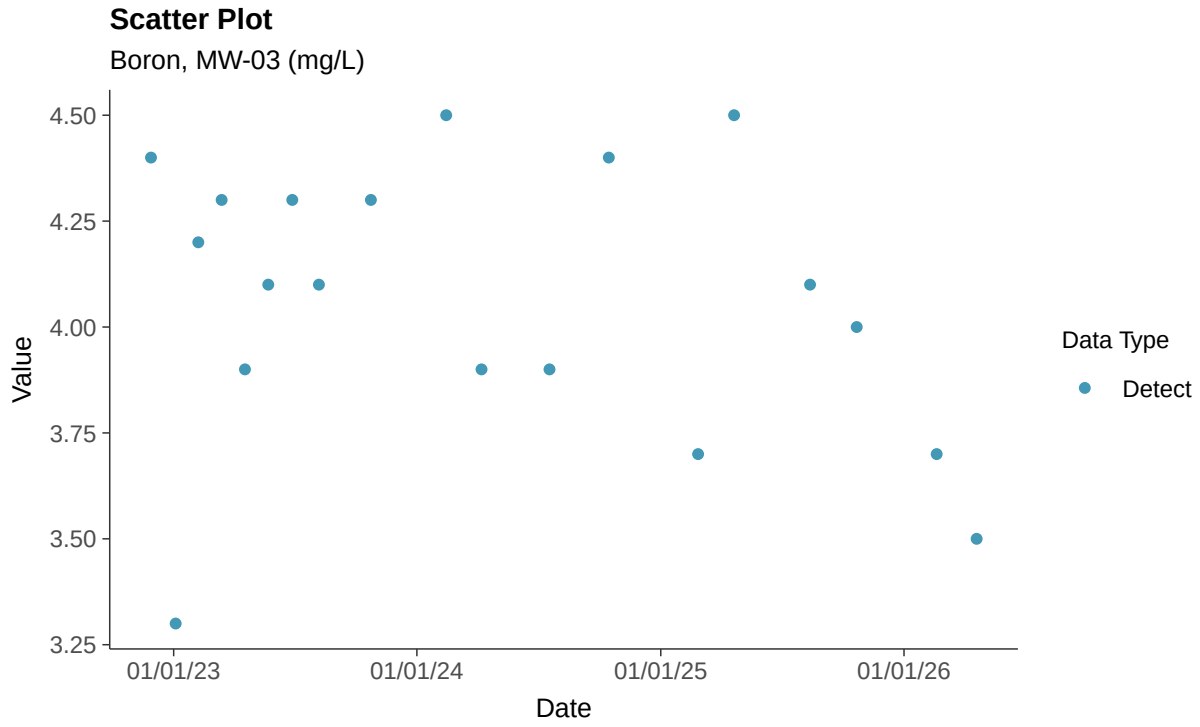
Trend Regression: Piecewise Linear-Linear-Linear

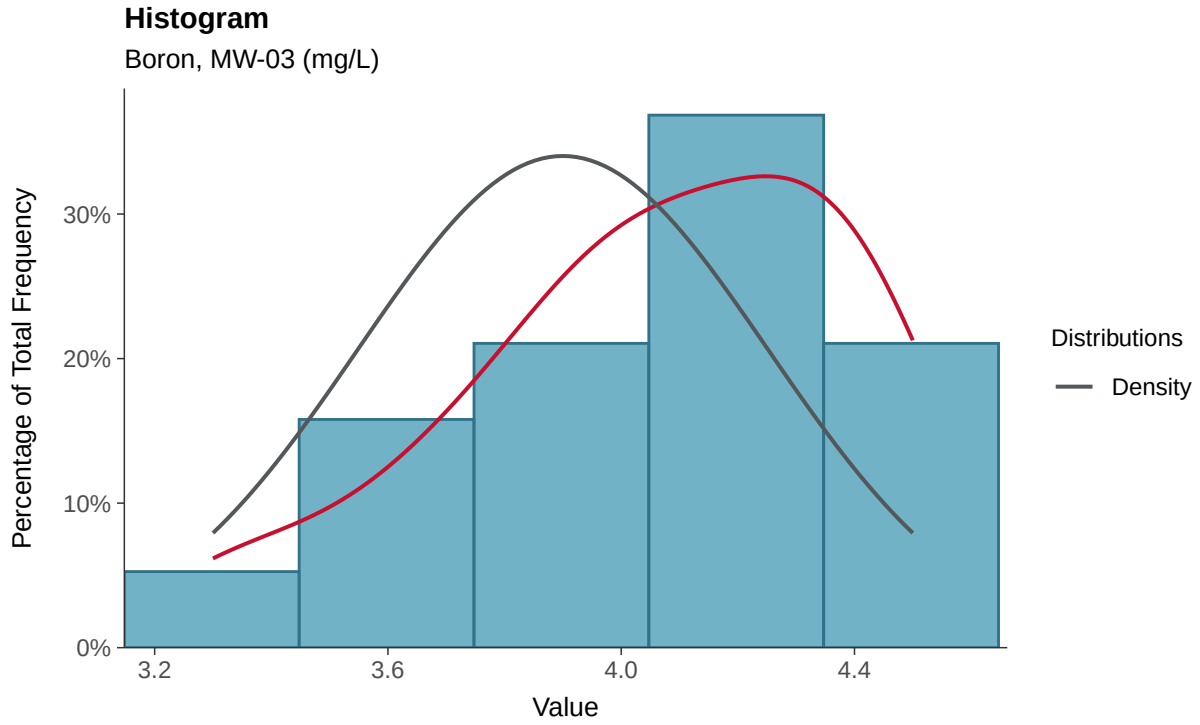
Zinc, MW-02 (mg/L)



Appendix III: Boron, MW-03

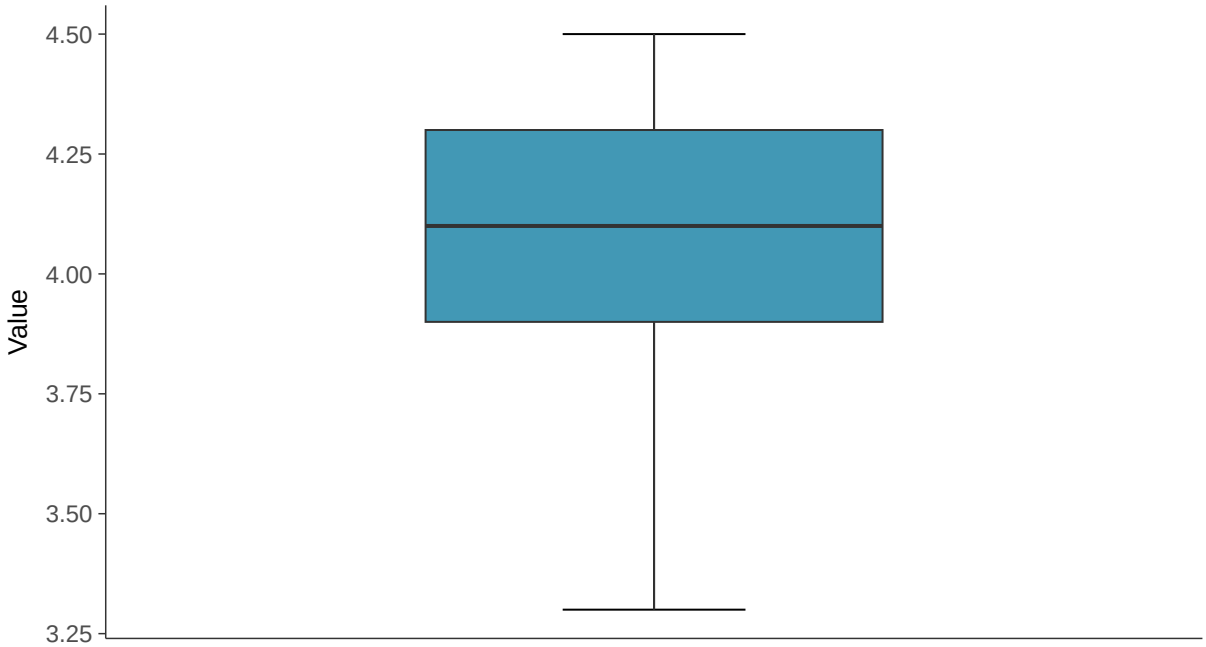
ID: 13_2_3_105





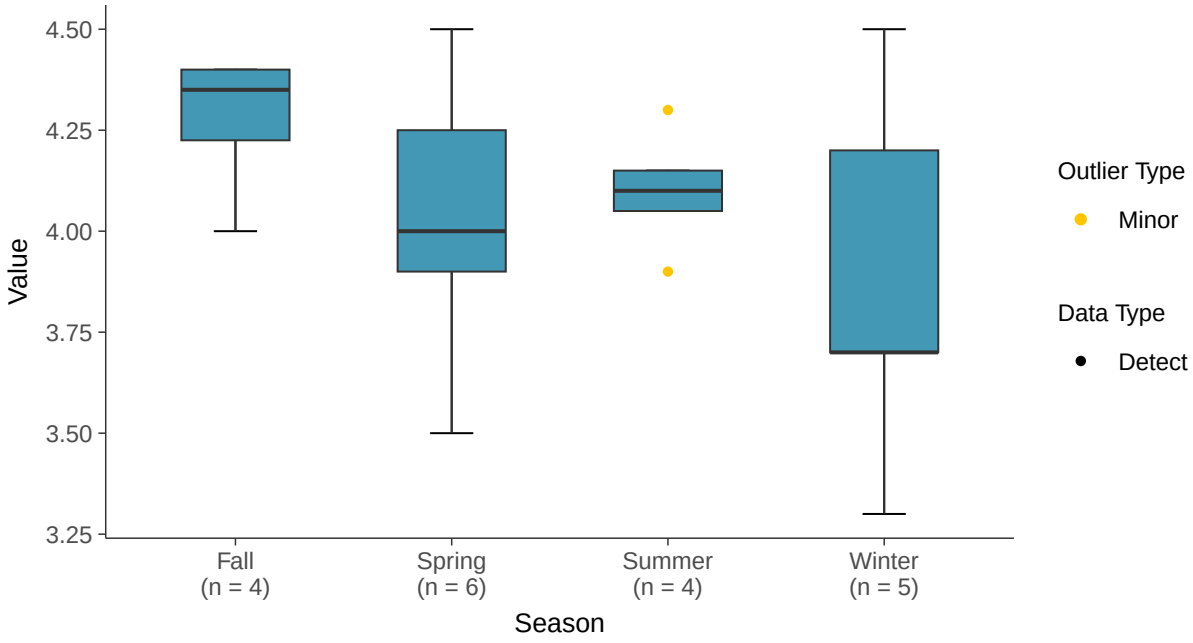
Boxplot

Boron, MW-03 (mg/L)



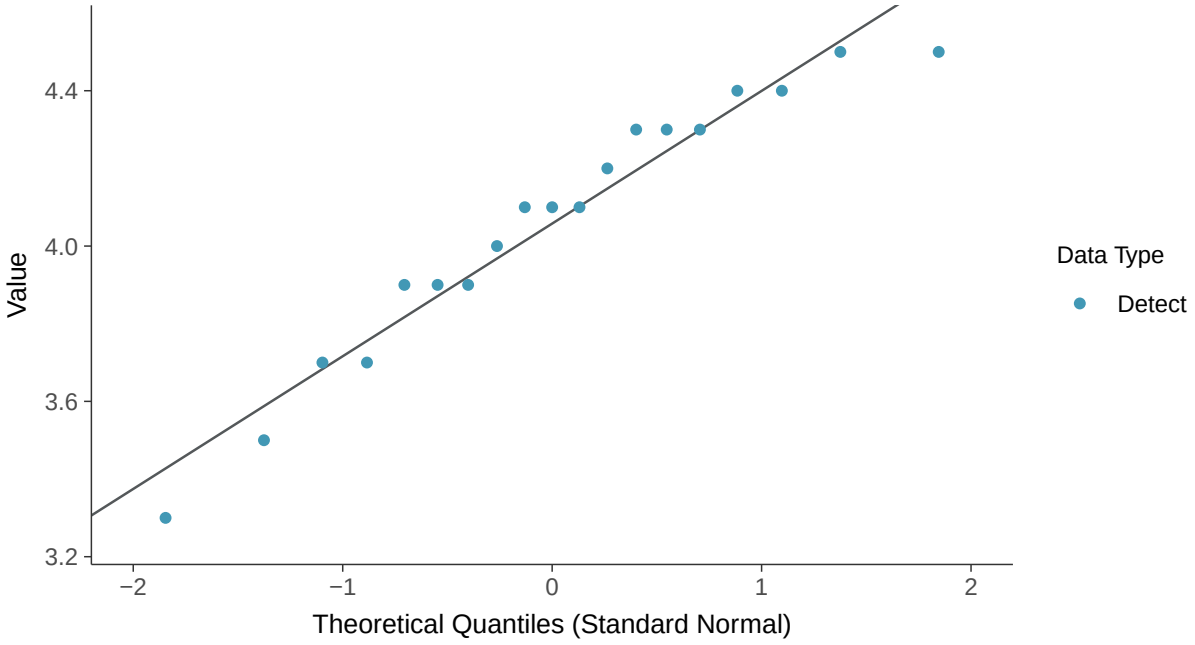
Boxplot by Season

Boron, MW-03 (mg/L)



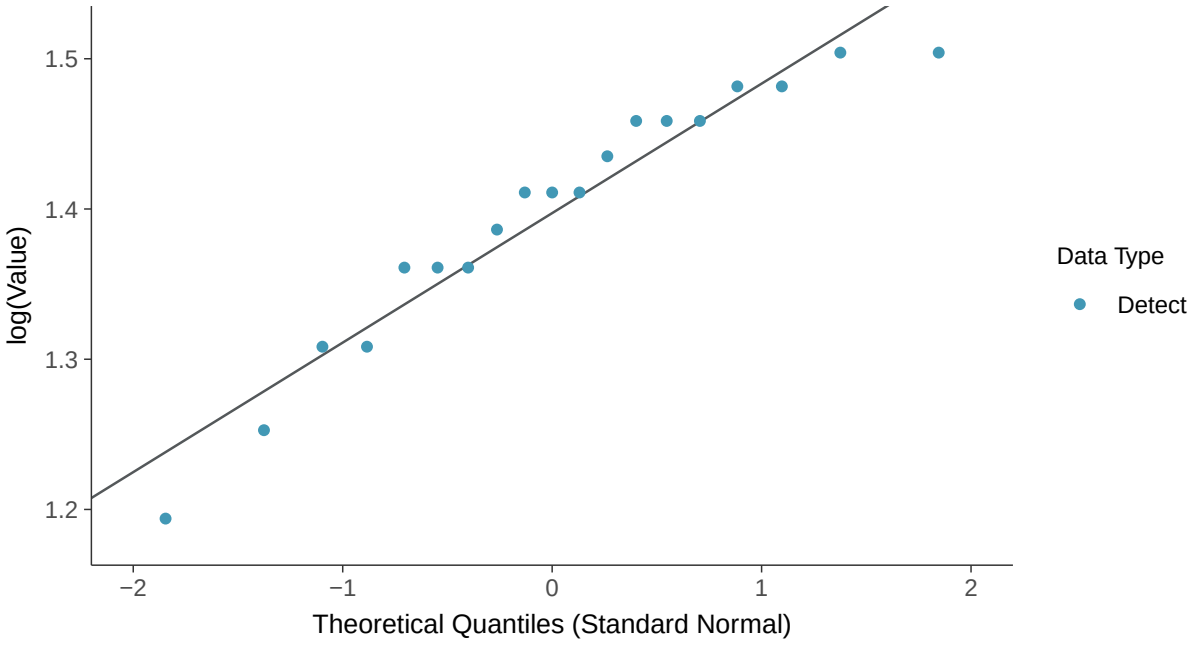
Normal Q-Q plot

Boron, MW-03 (mg/L)



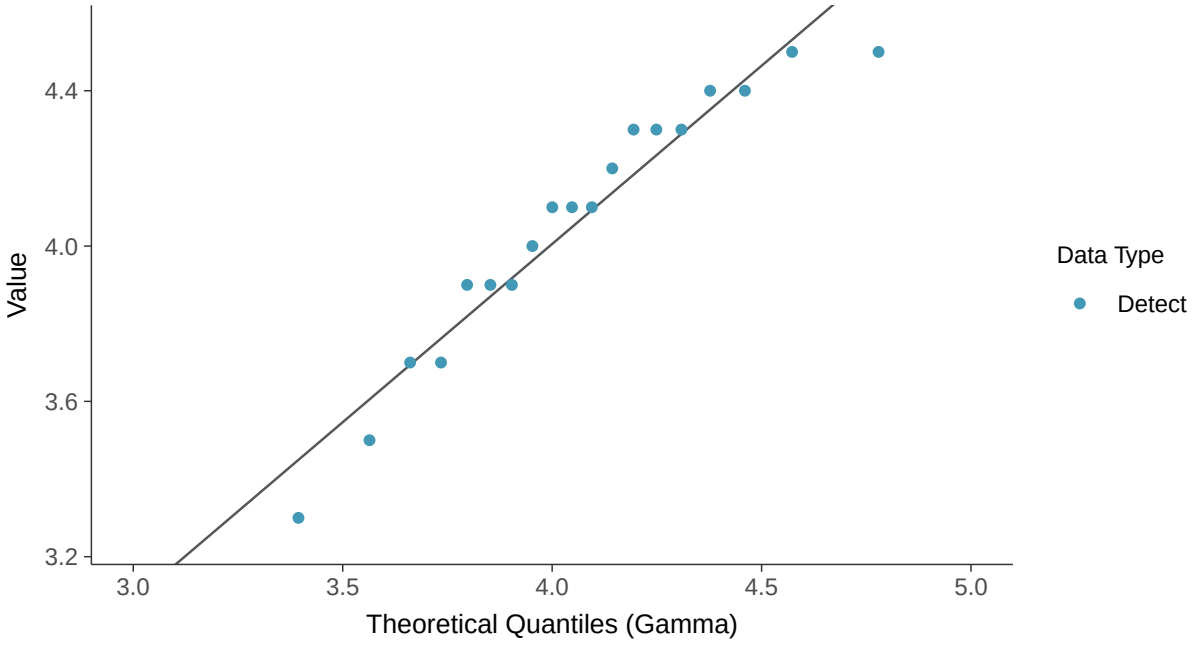
Lognormal Q-Q plot

Boron, MW-03 (mg/L)



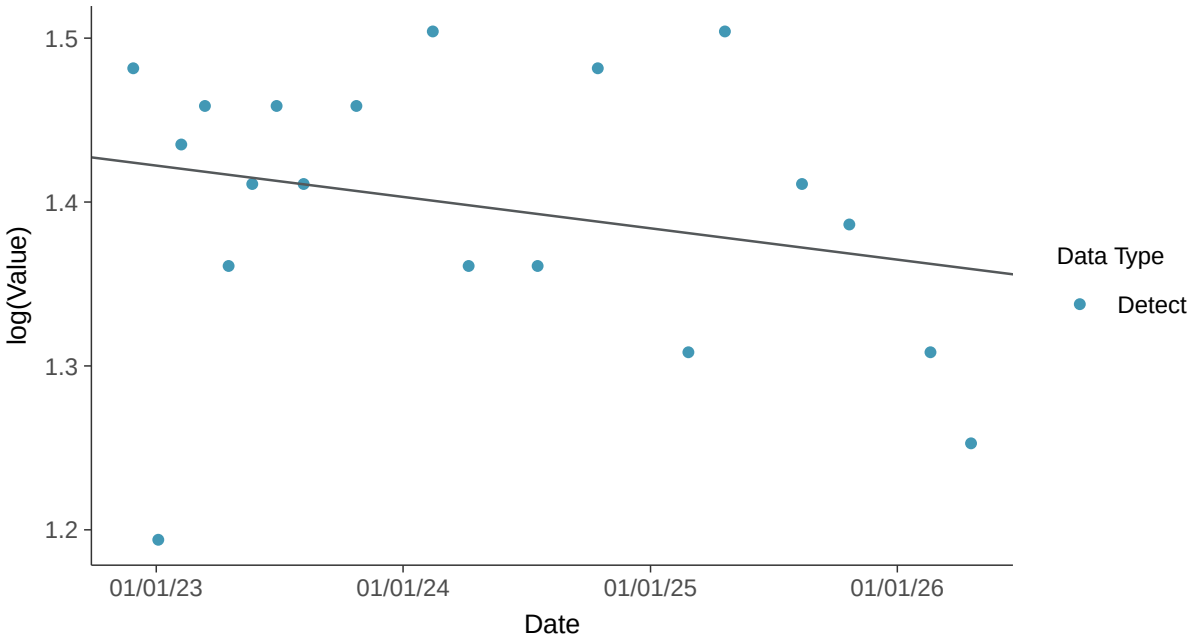
Gamma Q-Q plot

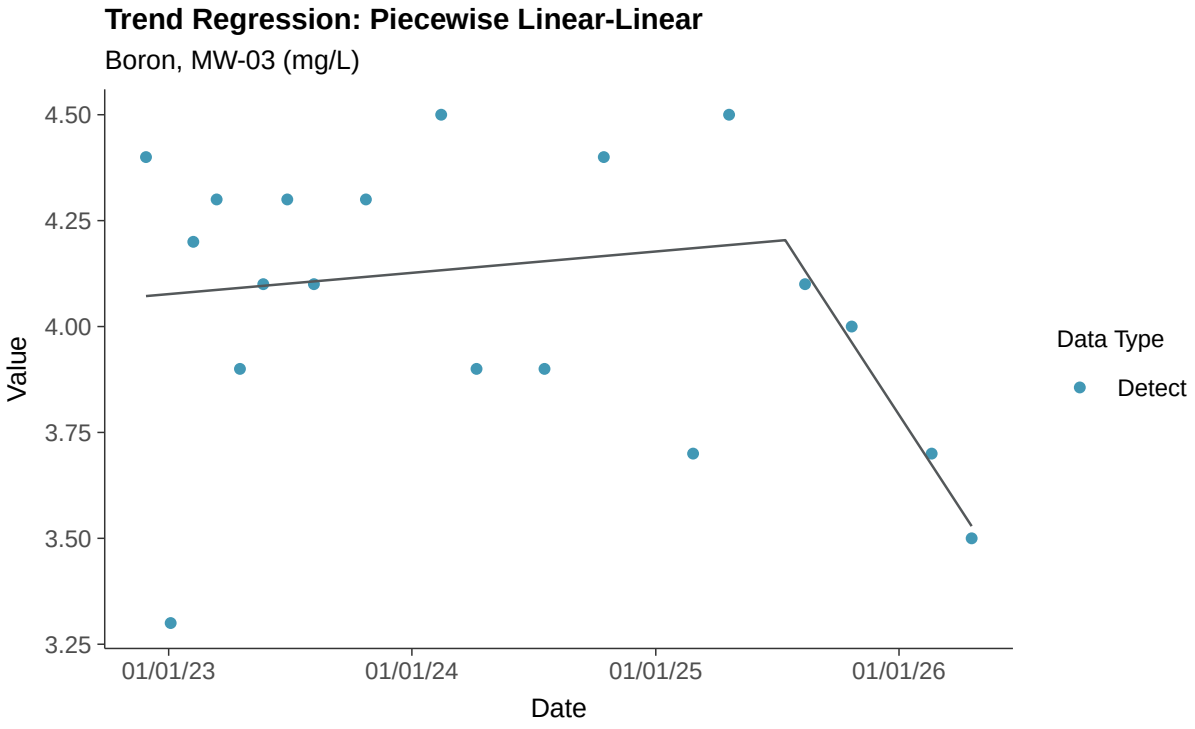
Boron, MW-03 (mg/L)



Trend Regression: Lognormal MLE

Boron, MW-03 (mg/L)



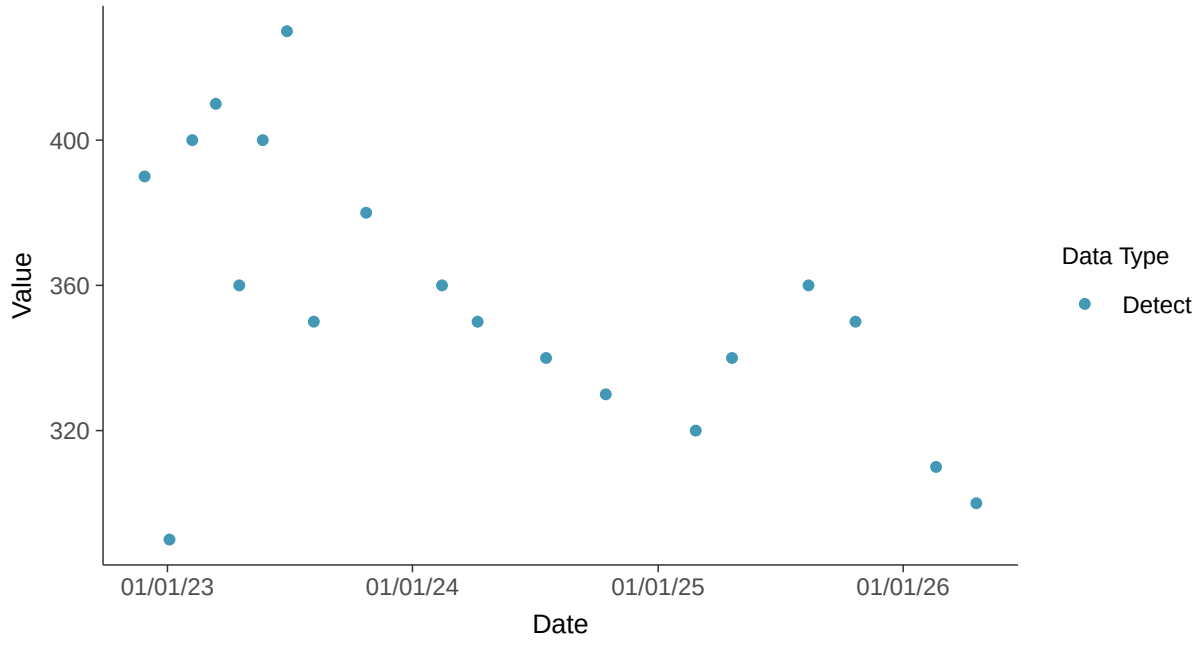

Trend Regression: Piecewise Linear-Linear
Boron, MW-03 (mg/L)
Value
4.50
4.25
4.00
3.75
3.50
3.25
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Calcium, MW-03

ID: 13_2_3_107

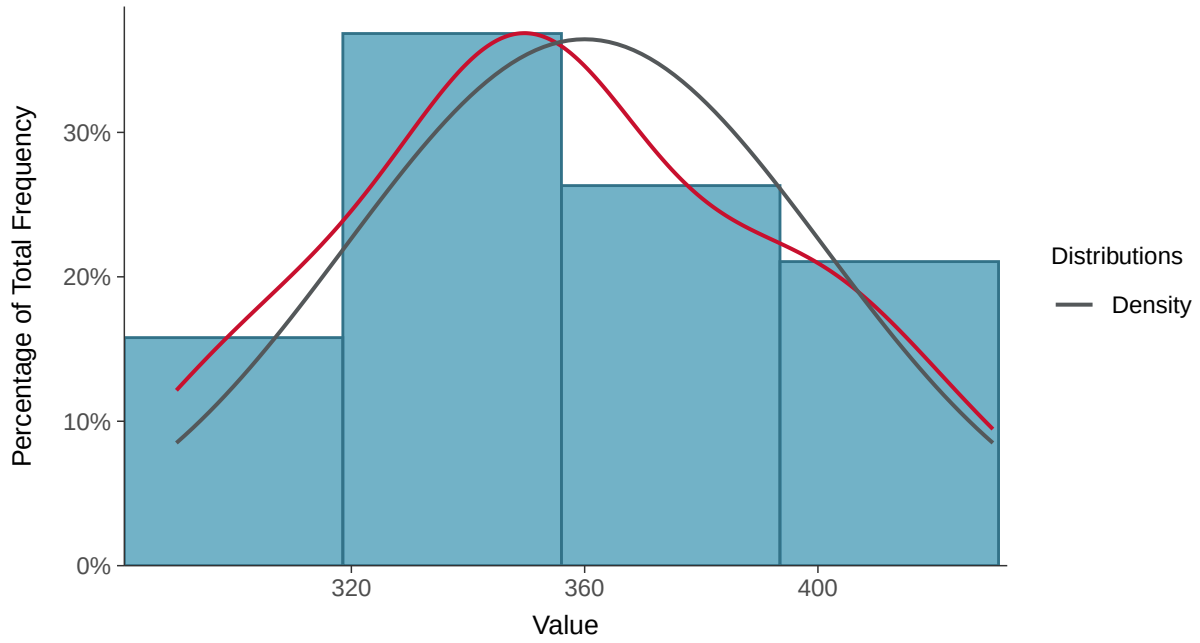
Scatter Plot

Calcium, MW-03 (mg/L)



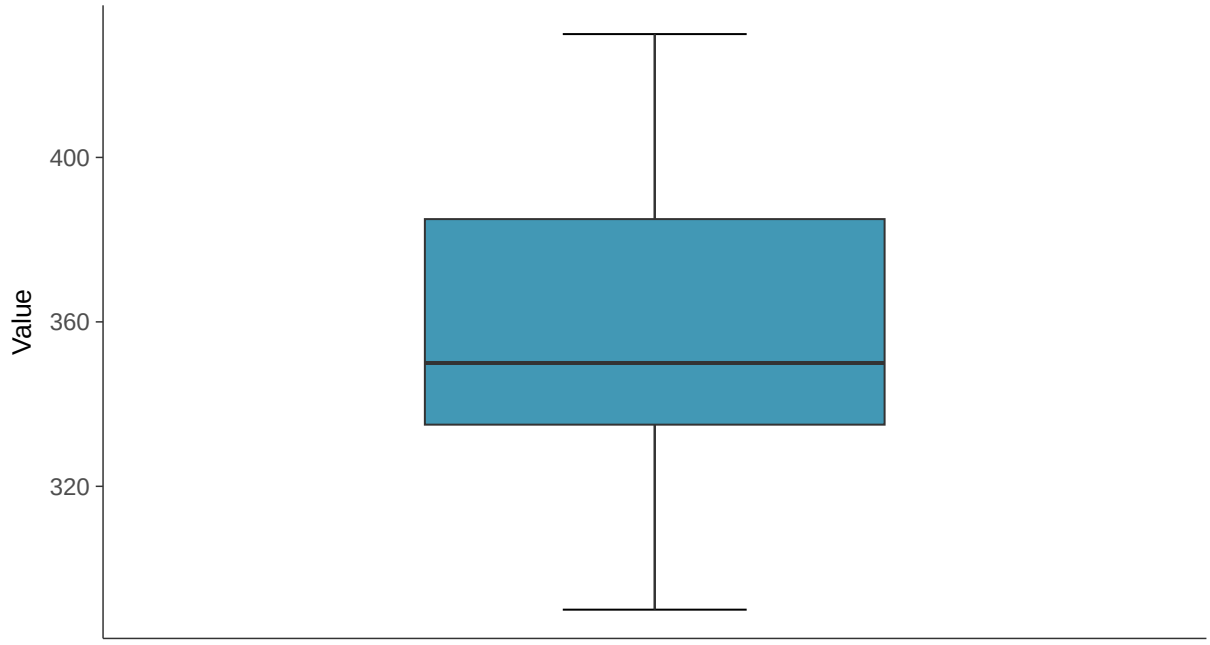
Histogram

Calcium, MW-03 (mg/L)



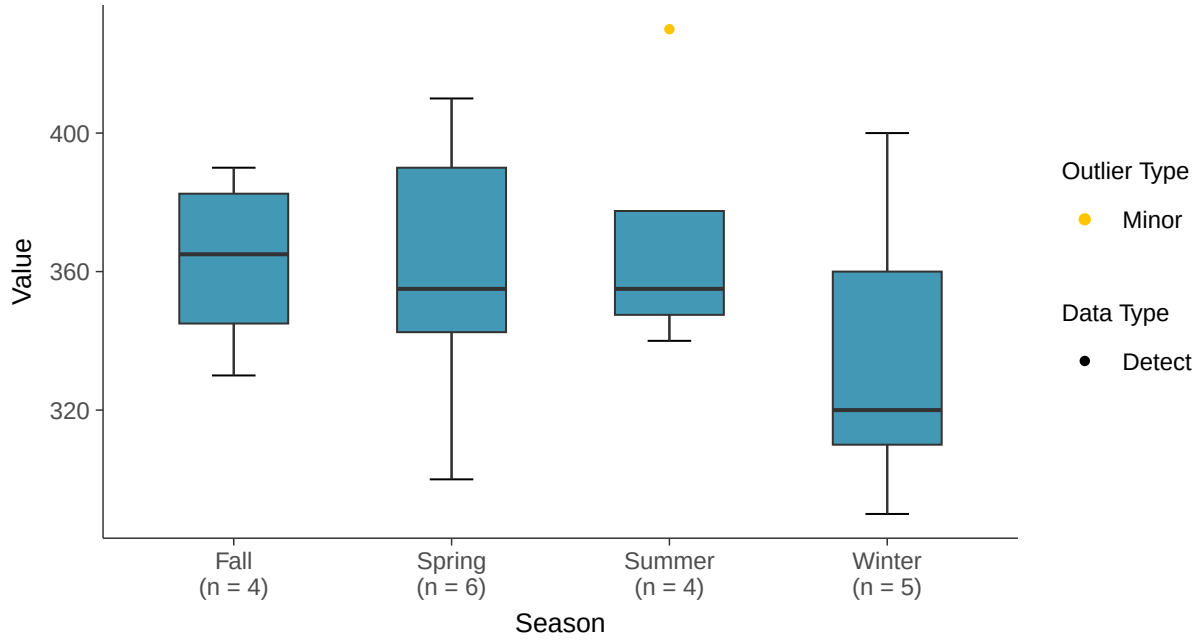
Boxplot

Calcium, MW-03 (mg/L)



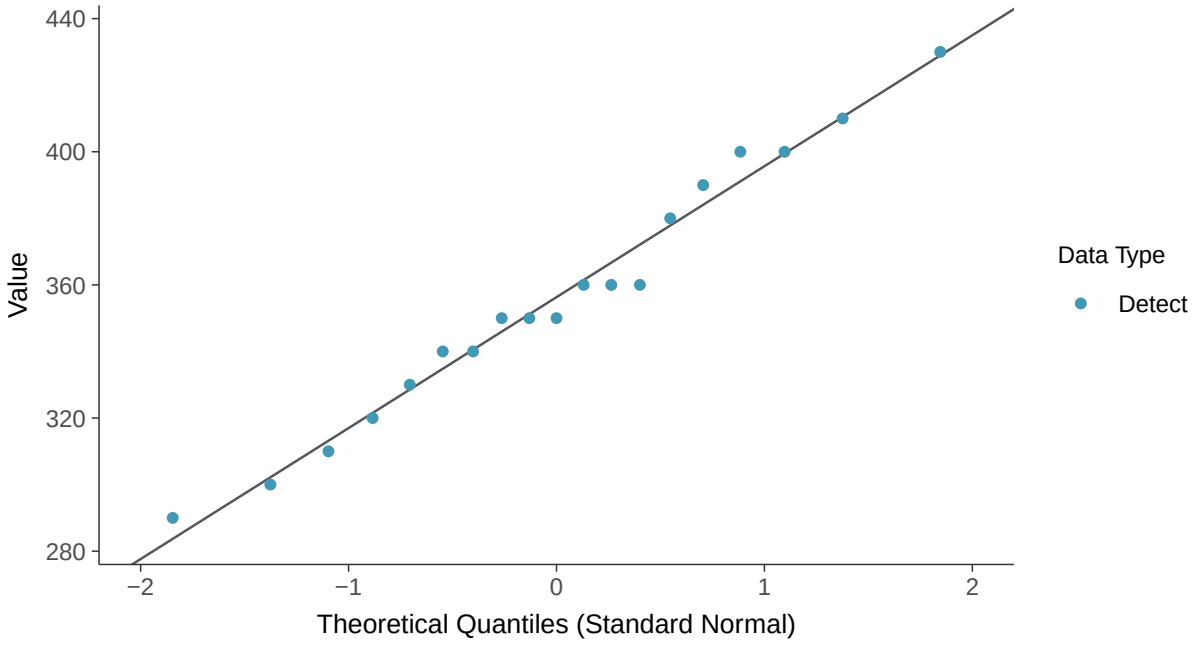
Boxplot by Season

Calcium, MW-03 (mg/L)



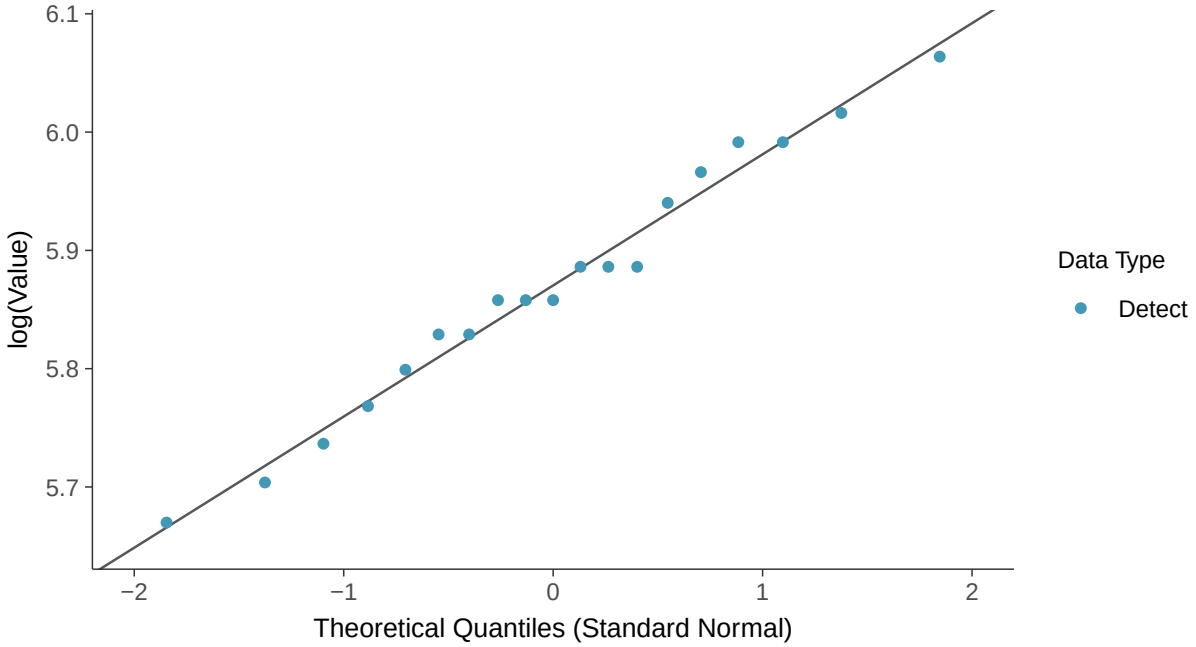
Normal Q-Q plot

Calcium, MW-03 (mg/L)



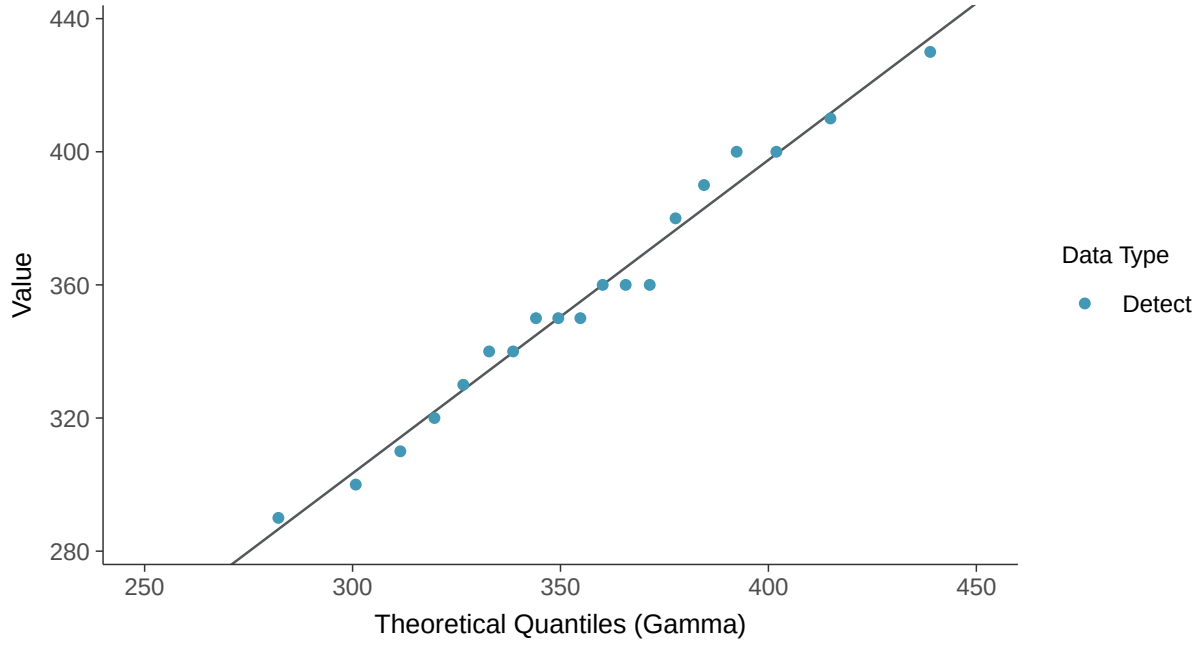
Lognormal Q-Q plot

Calcium, MW-03 (mg/L)



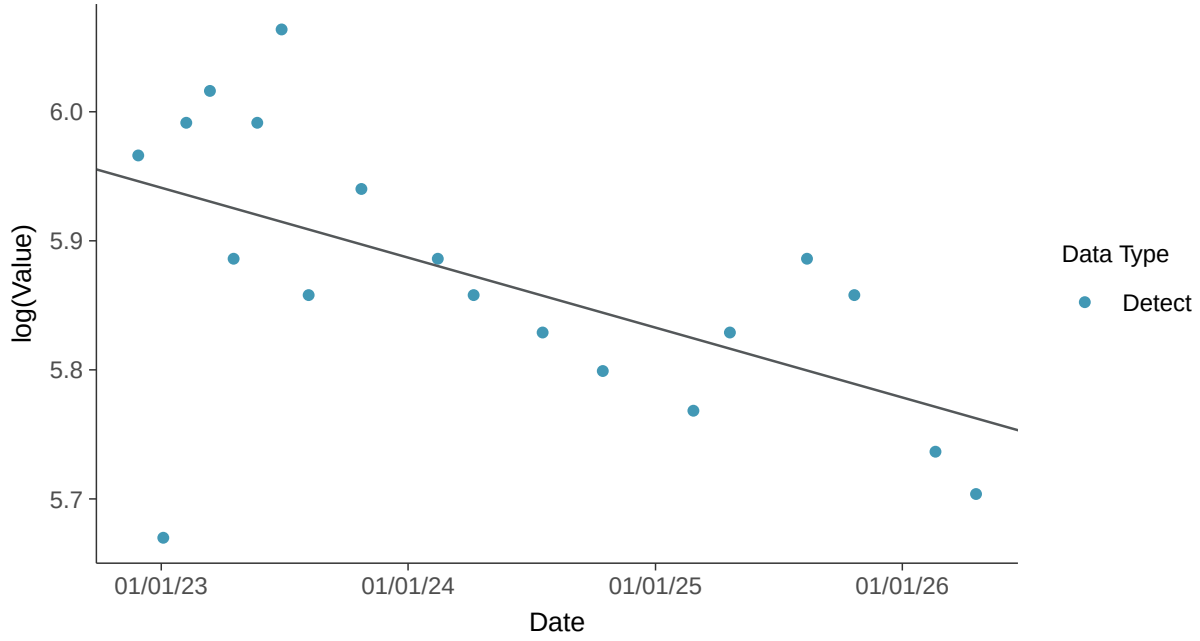
Gamma Q-Q plot

Calcium, MW-03 (mg/L)



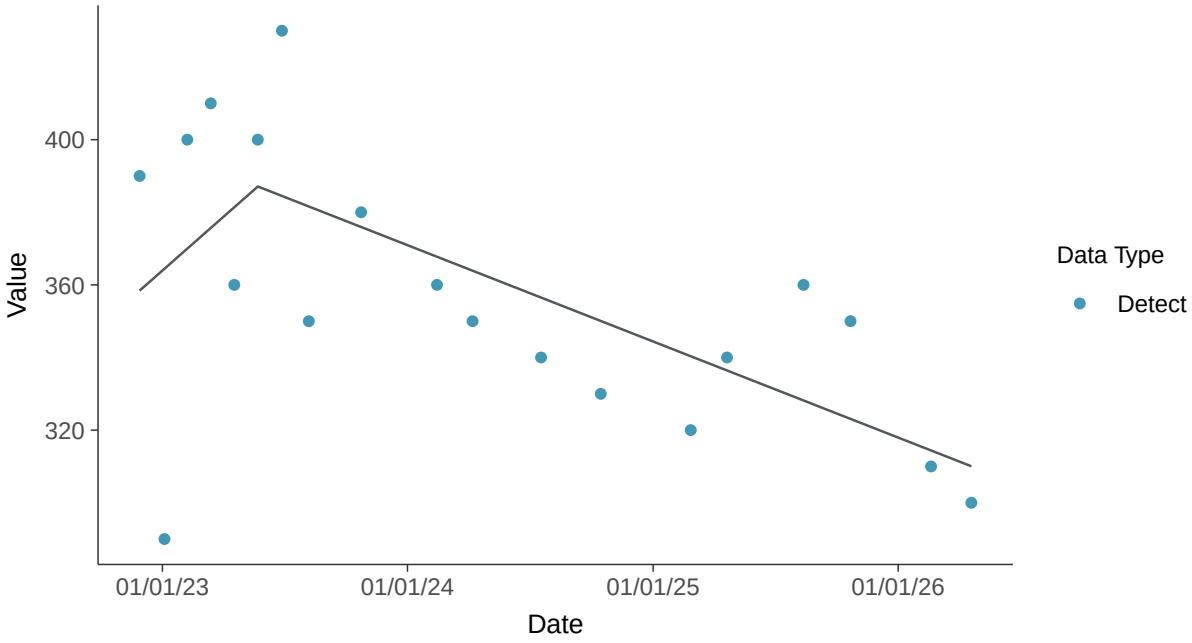
Trend Regression: Lognormal MLE

Calcium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-03 (mg/L)

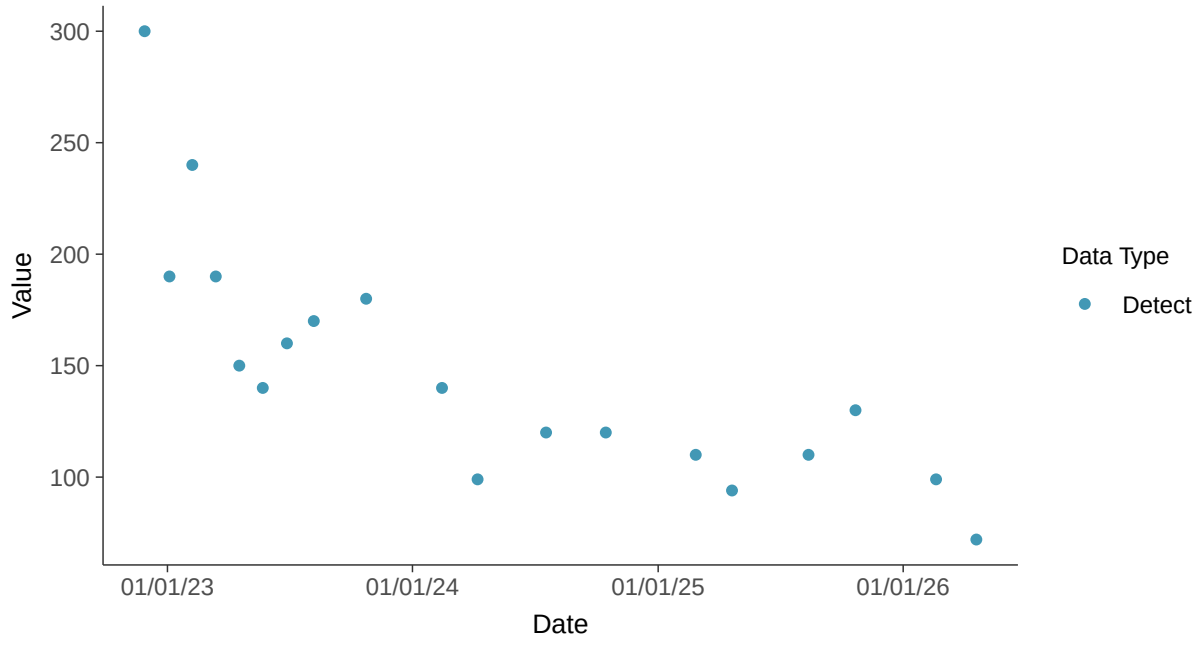


Appendix III: Chloride (as Cl), MW-03

ID: 13_2_3_108

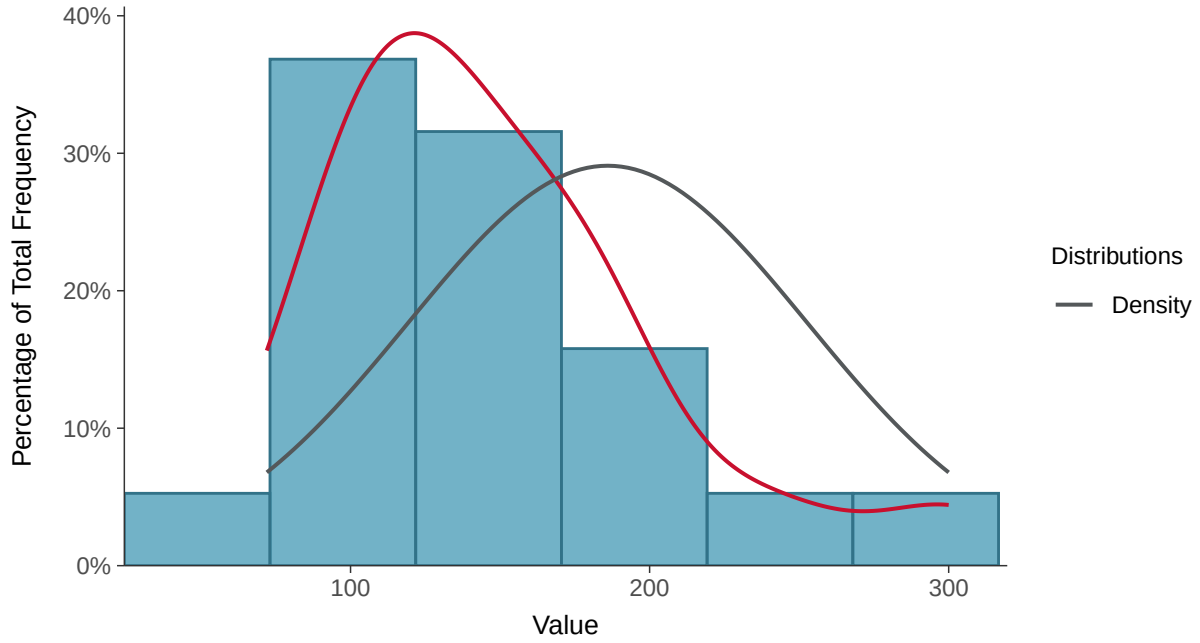
Scatter Plot

Chloride (as Cl), MW-03 (mg/L)



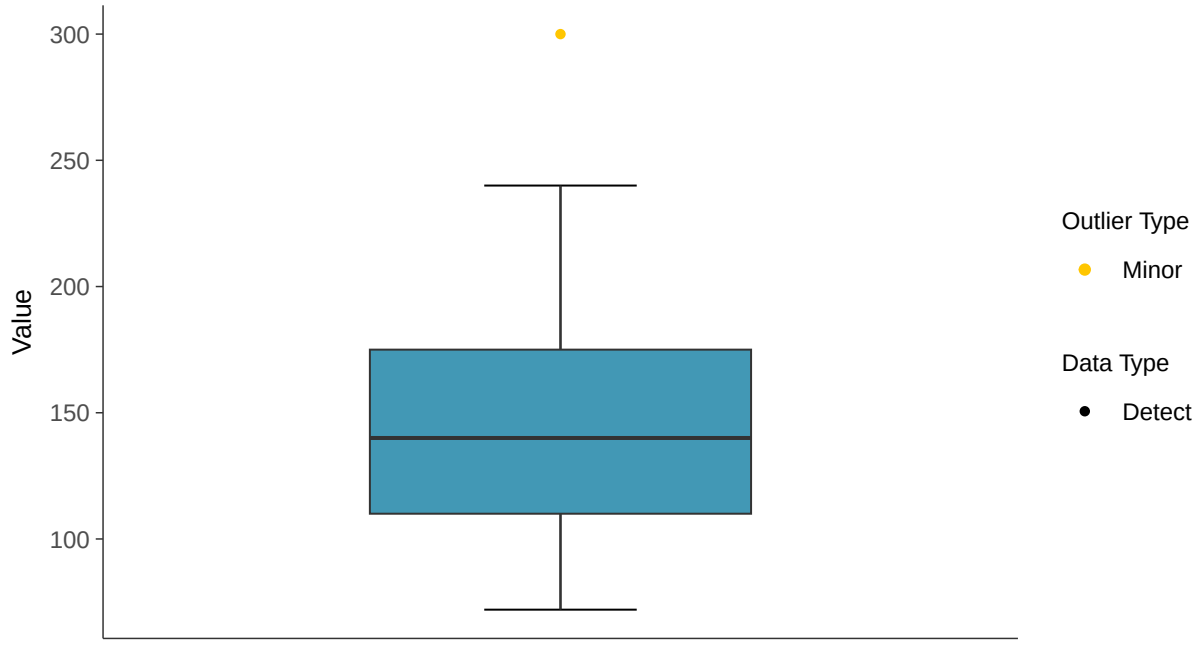
Histogram

Chloride (as Cl), MW-03 (mg/L)



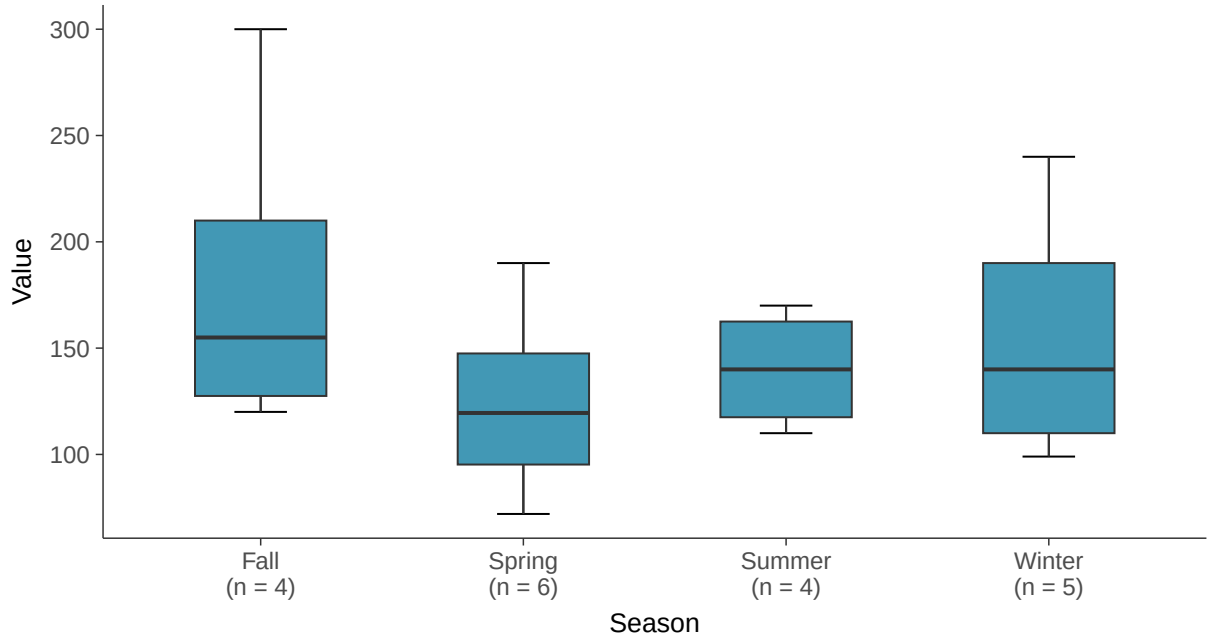
Boxplot

Chloride (as Cl), MW-03 (mg/L)



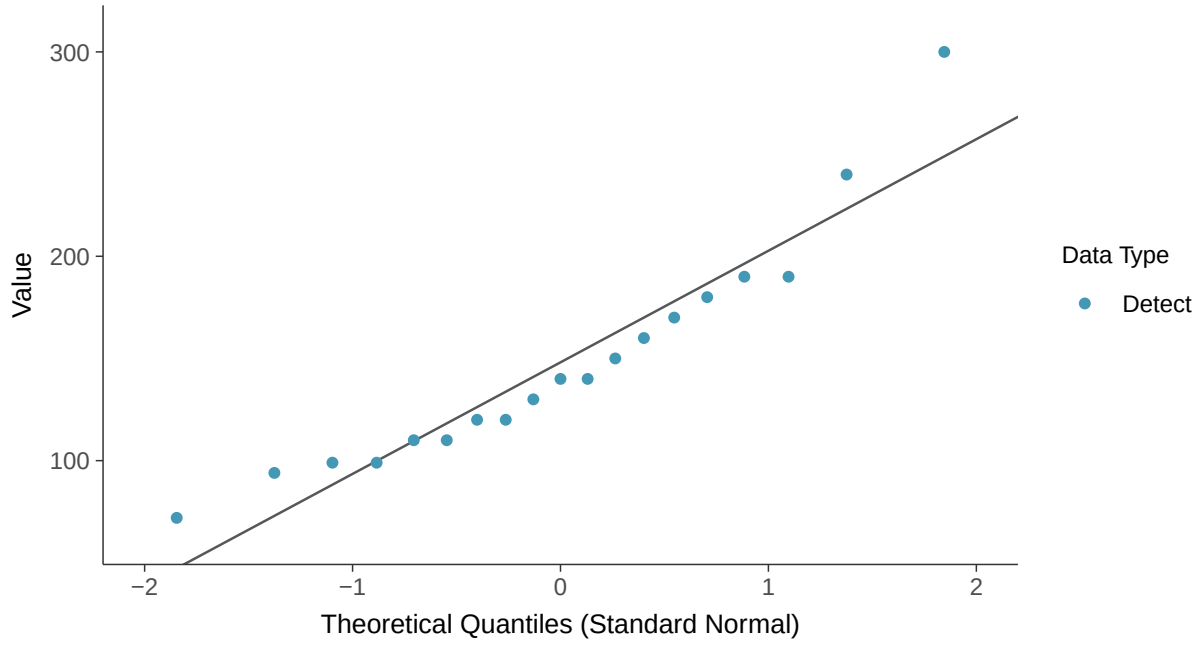
Boxplot by Season

Chloride (as Cl), MW-03 (mg/L)



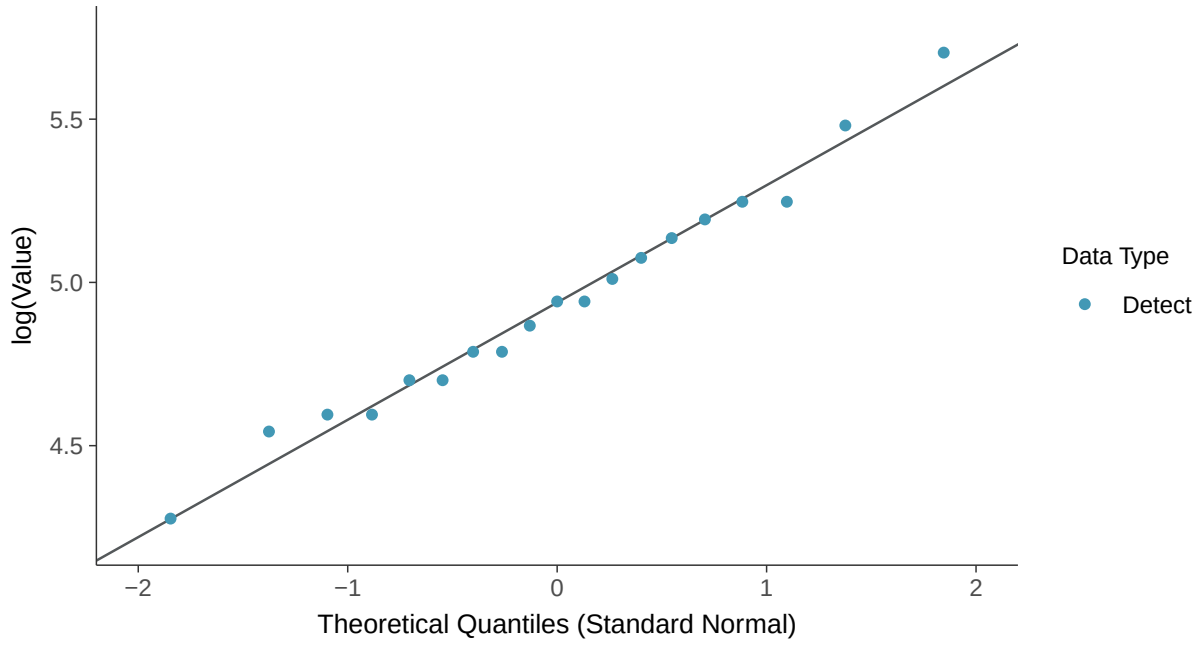
Normal Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



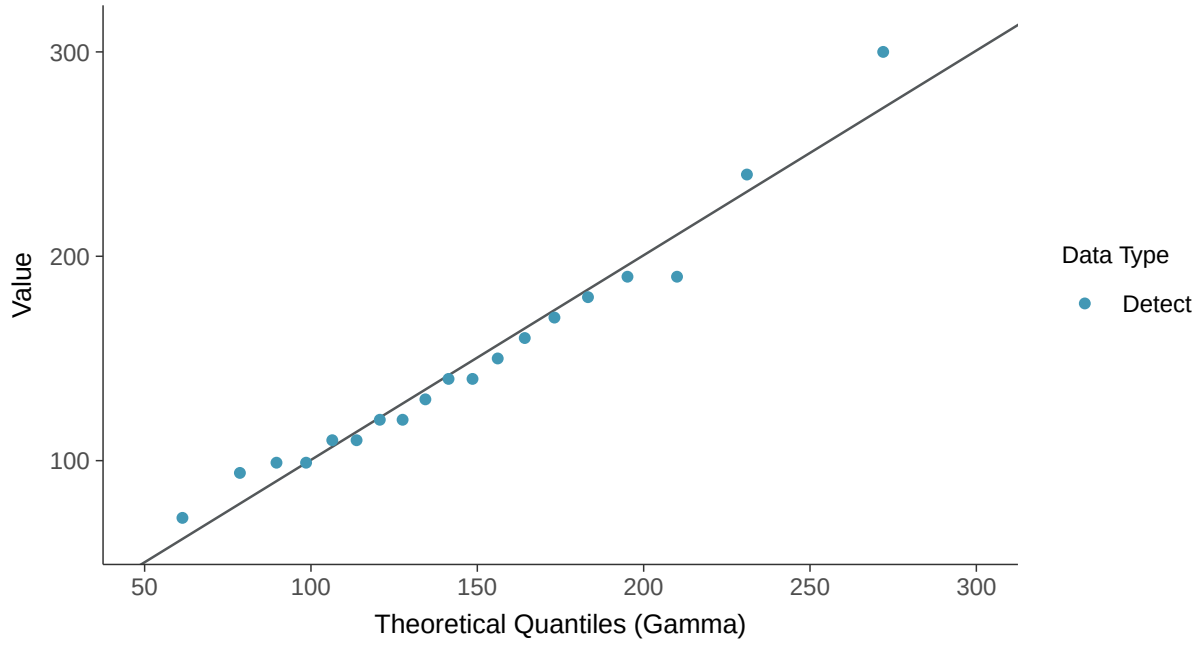
Lognormal Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



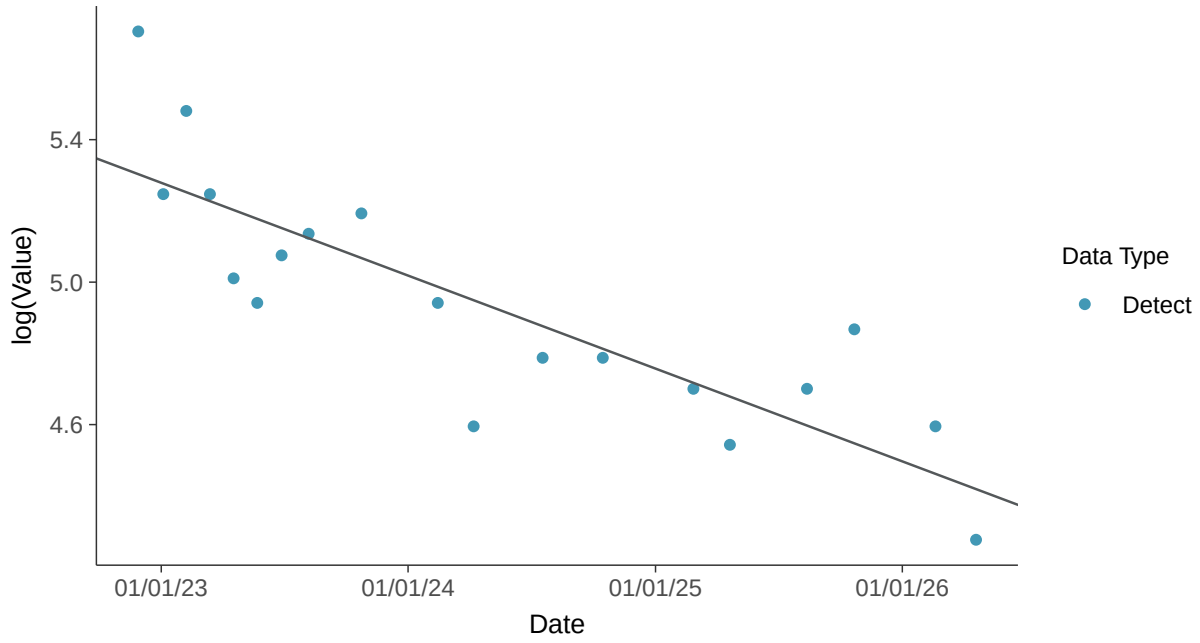
Gamma Q-Q plot

Chloride (as Cl), MW-03 (mg/L)



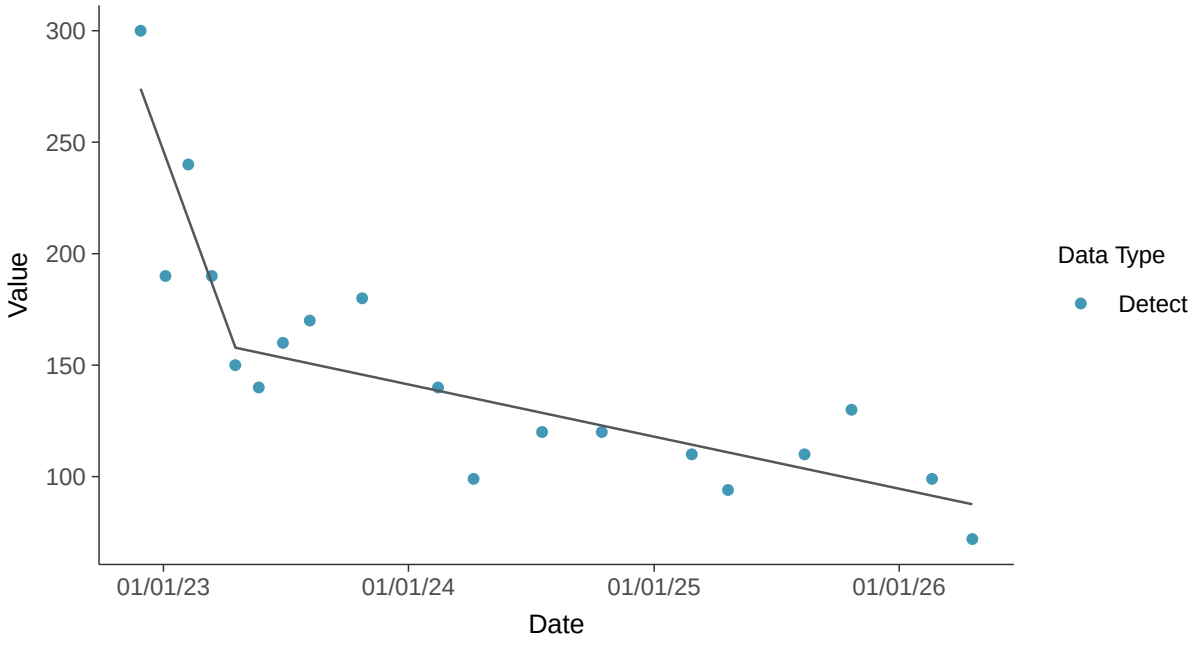
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-03 (mg/L)



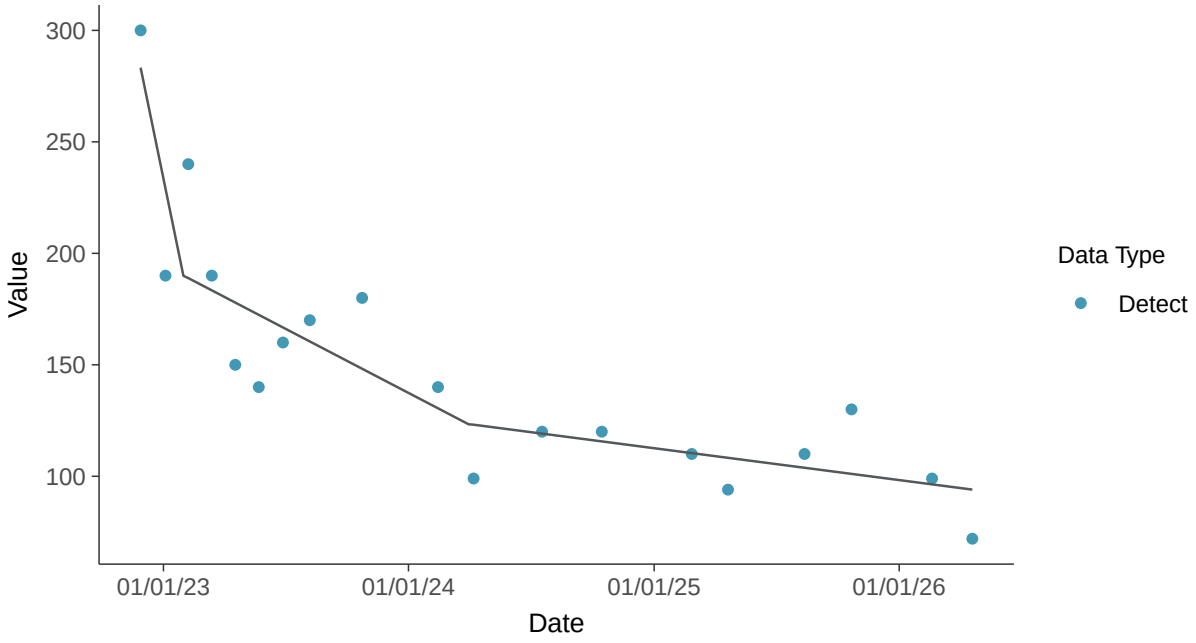
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-03 (mg/L)

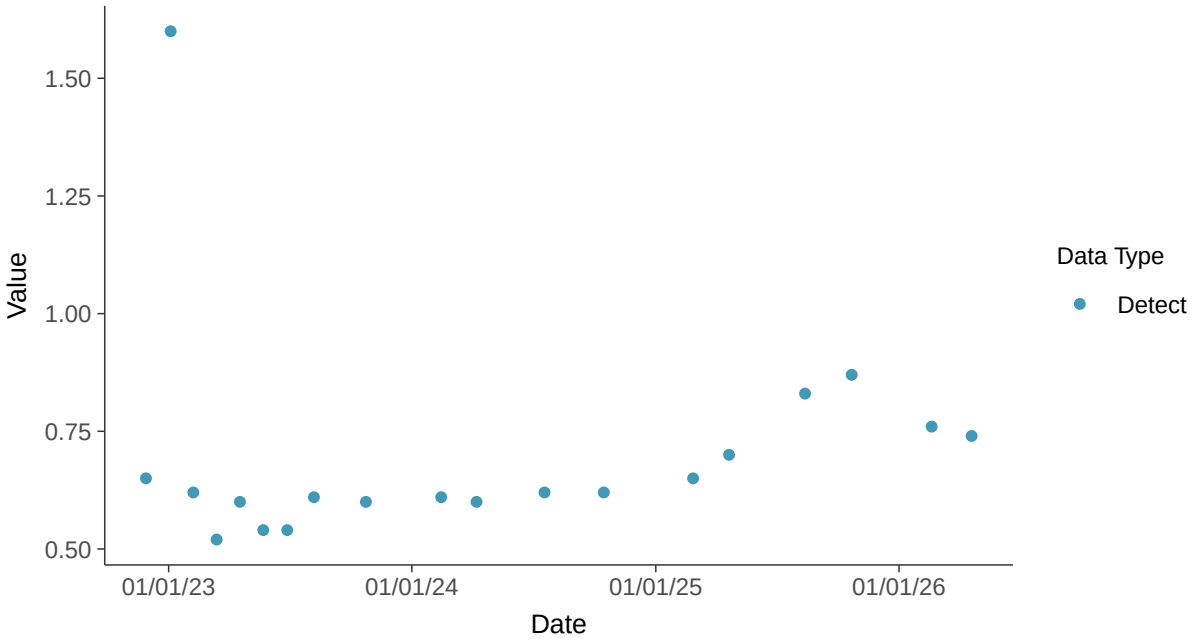


Appendix III: Fluoride, MW-03

ID: 13_2_3_112

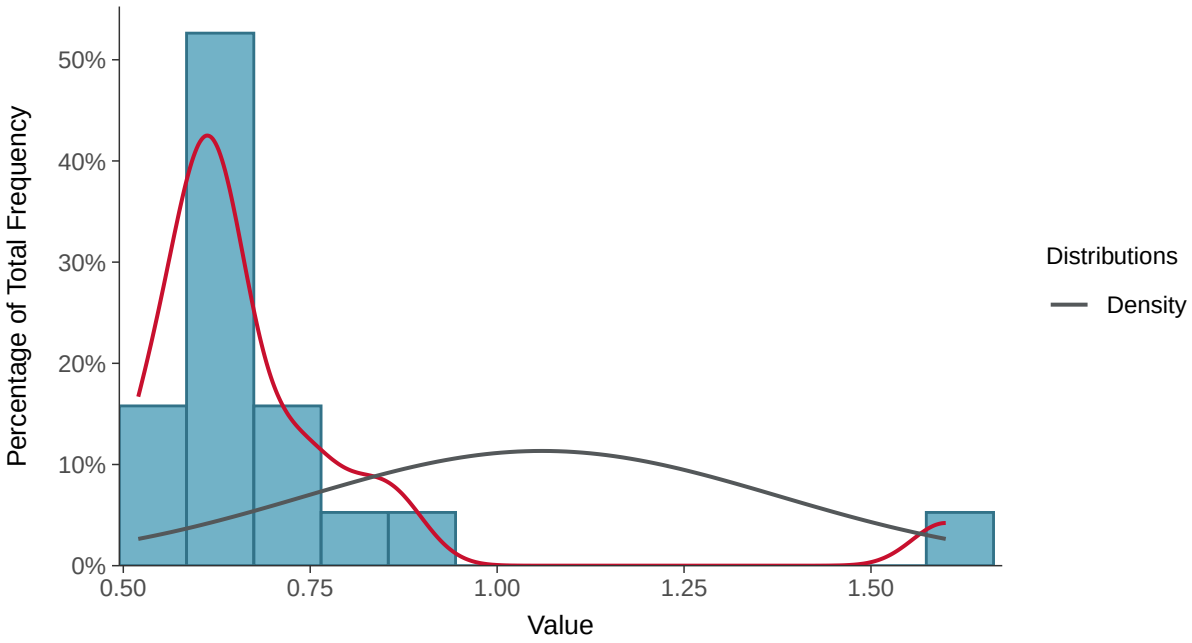
Scatter Plot

Fluoride, MW-03 (mg/L)



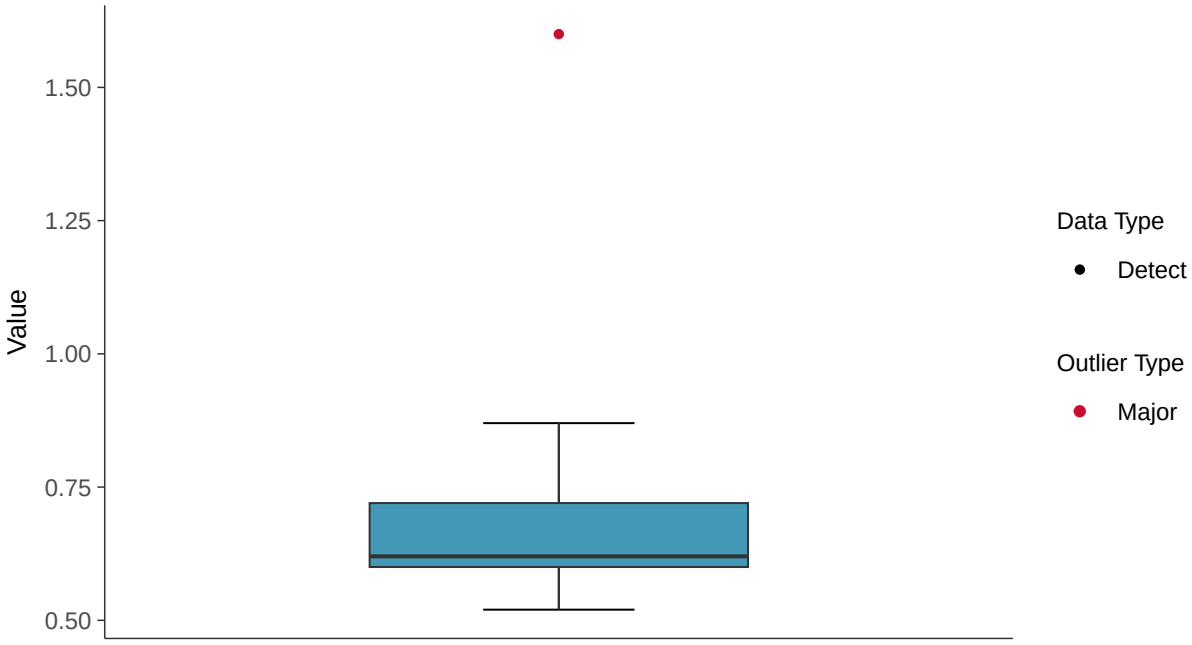
Histogram

Fluoride, MW-03 (mg/L)



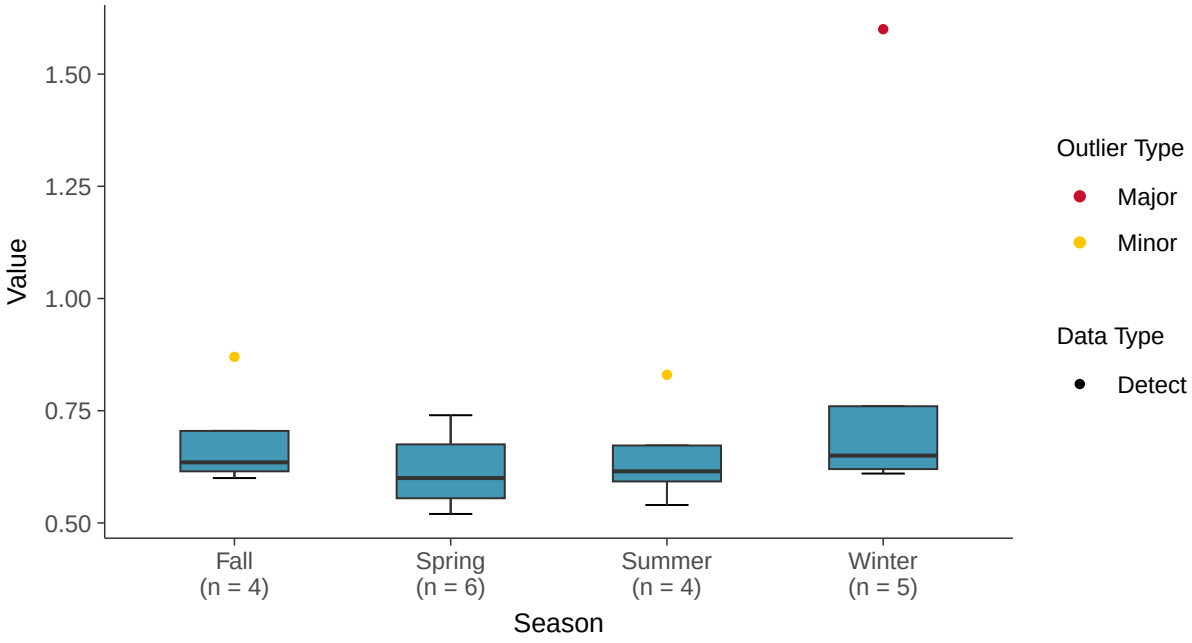
Boxplot

Fluoride, MW-03 (mg/L)



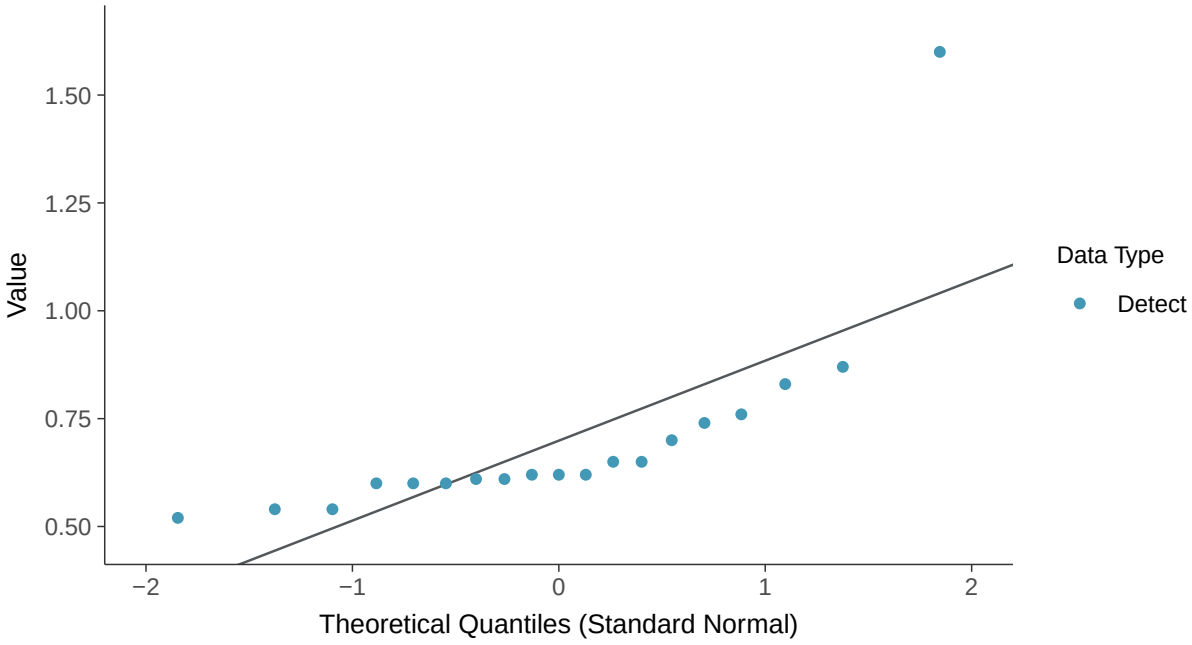
Boxplot by Season

Fluoride, MW-03 (mg/L)



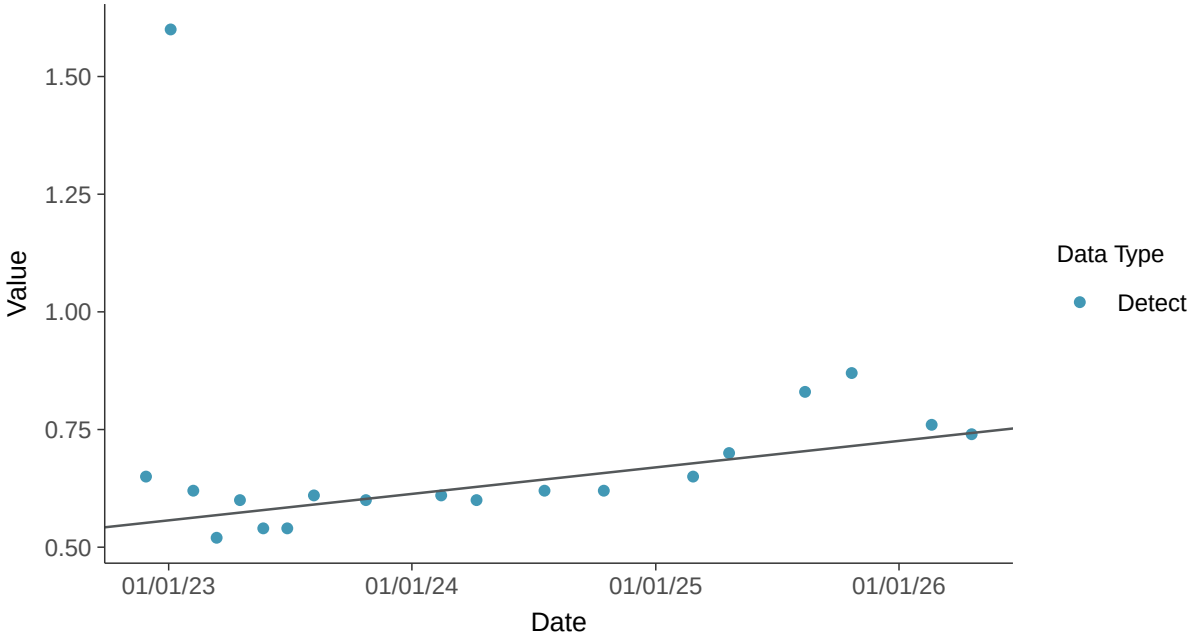
Normal Q-Q plot

Fluoride, MW-03 (mg/L)



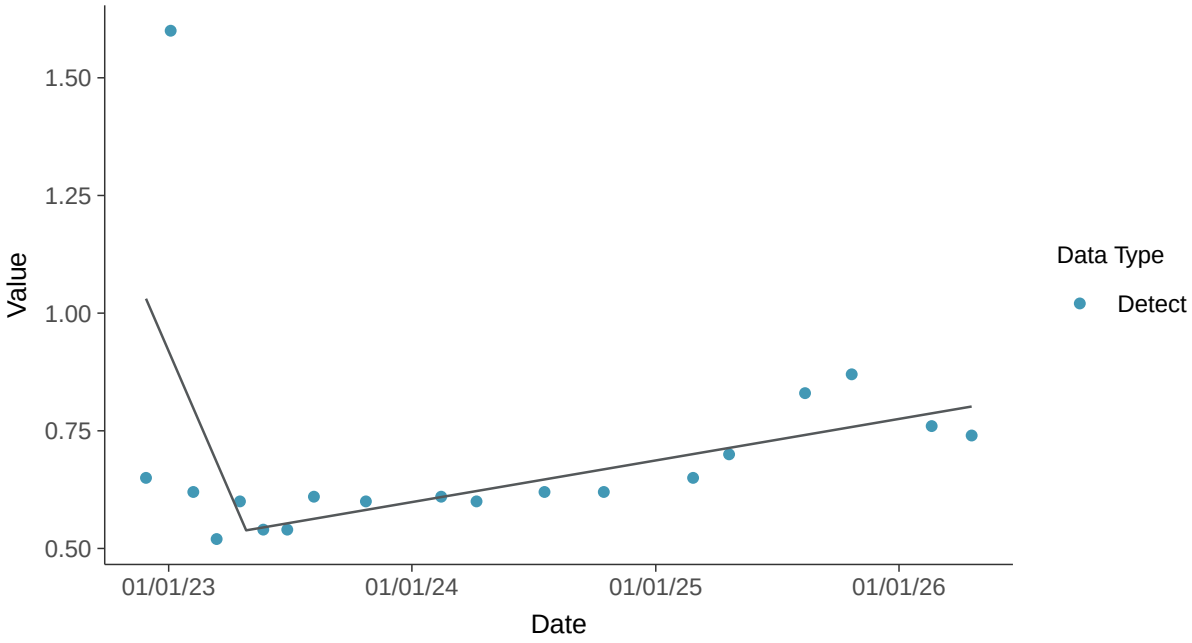
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-03 (mg/L)

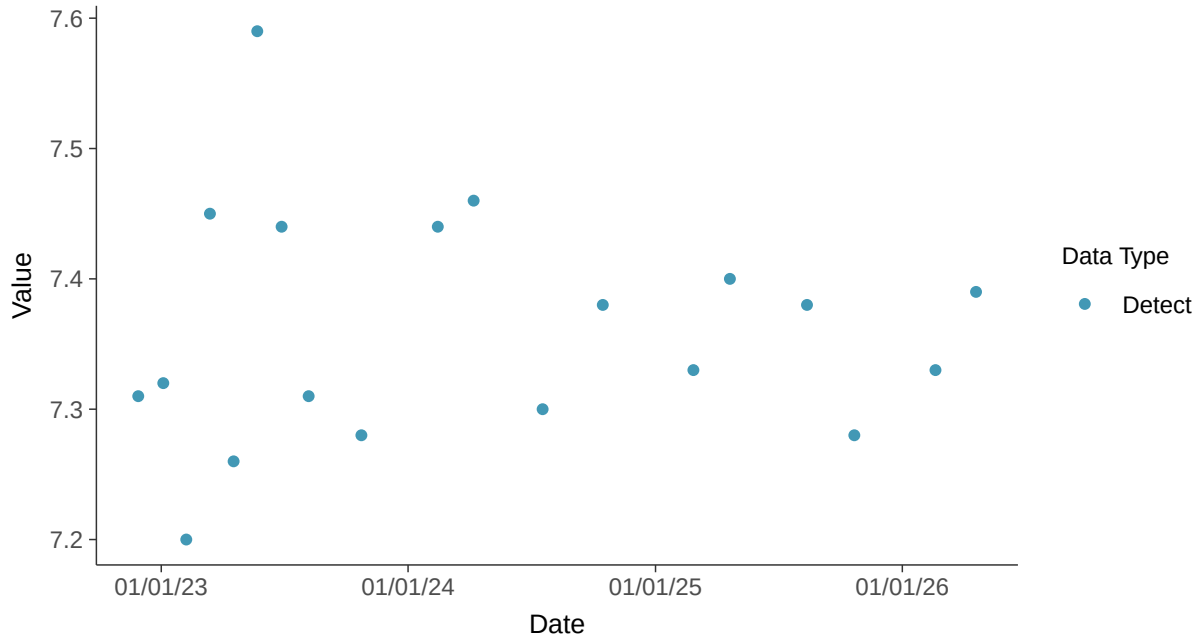


Appendix III: pH (field), MW-03

ID: 13_2_3_120

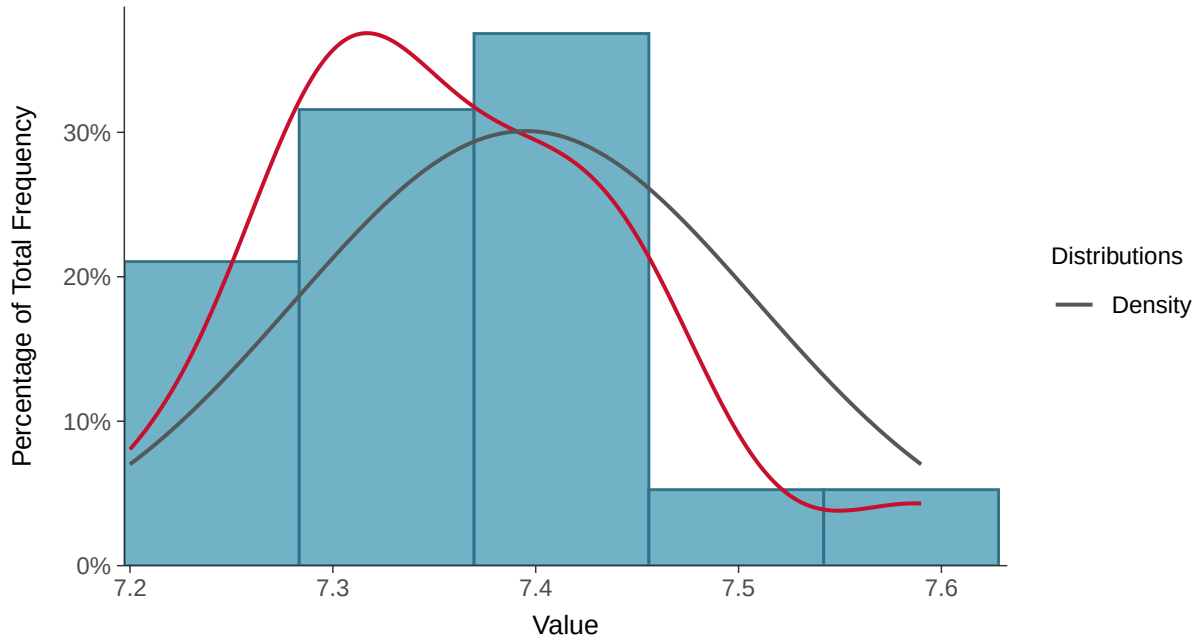
Scatter Plot

pH (field), MW-03 (su)



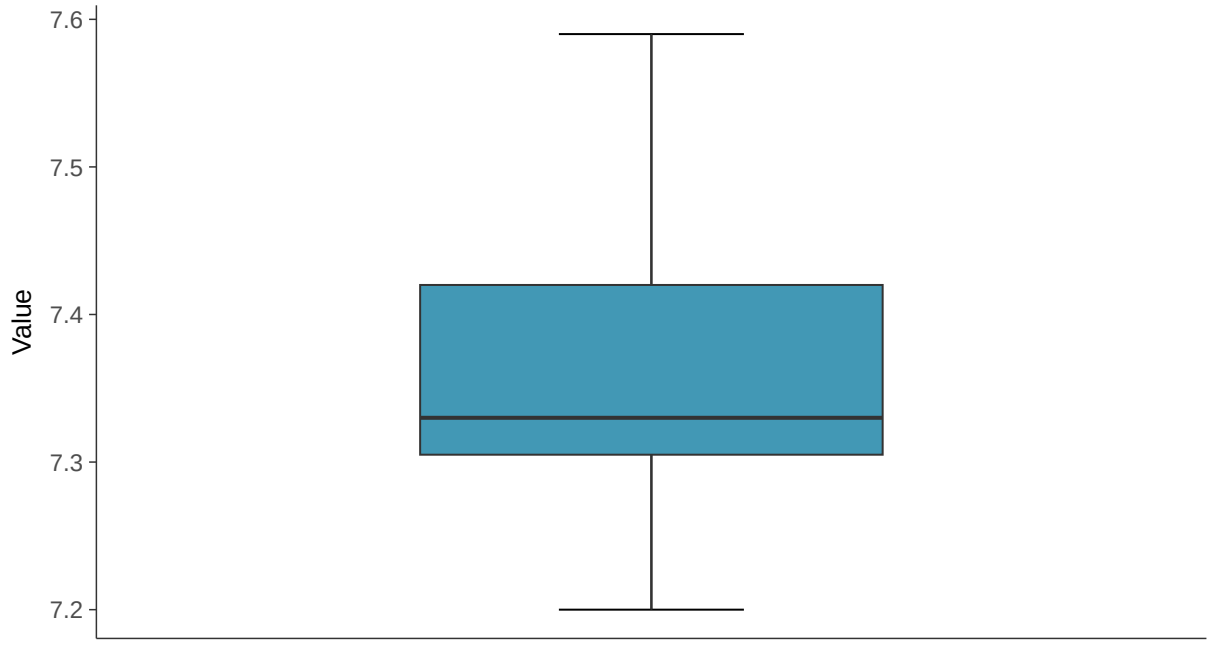
Histogram

pH (field), MW-03 (su)



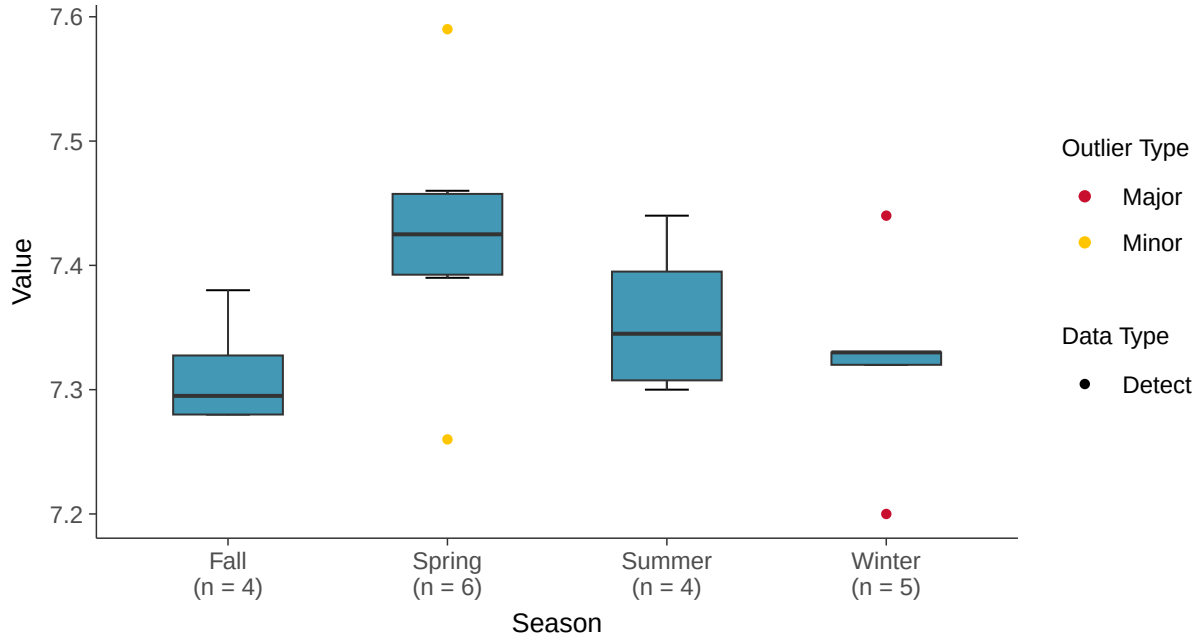
Boxplot

pH (field), MW-03 (su)



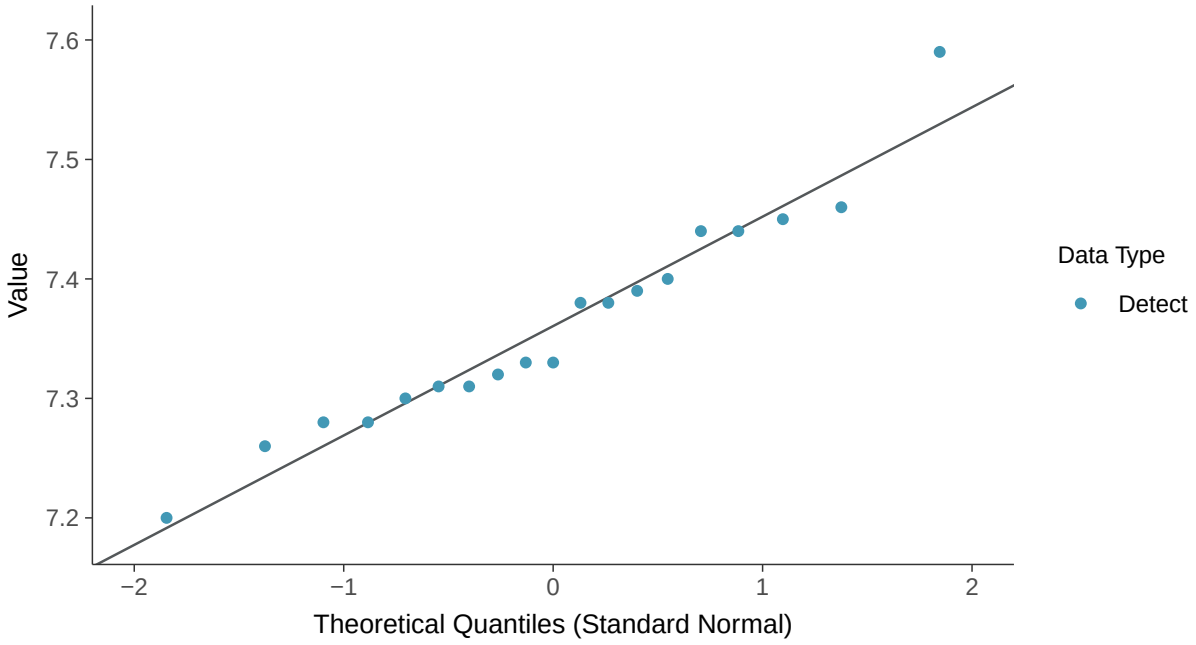
Boxplot by Season

pH (field), MW-03 (su)



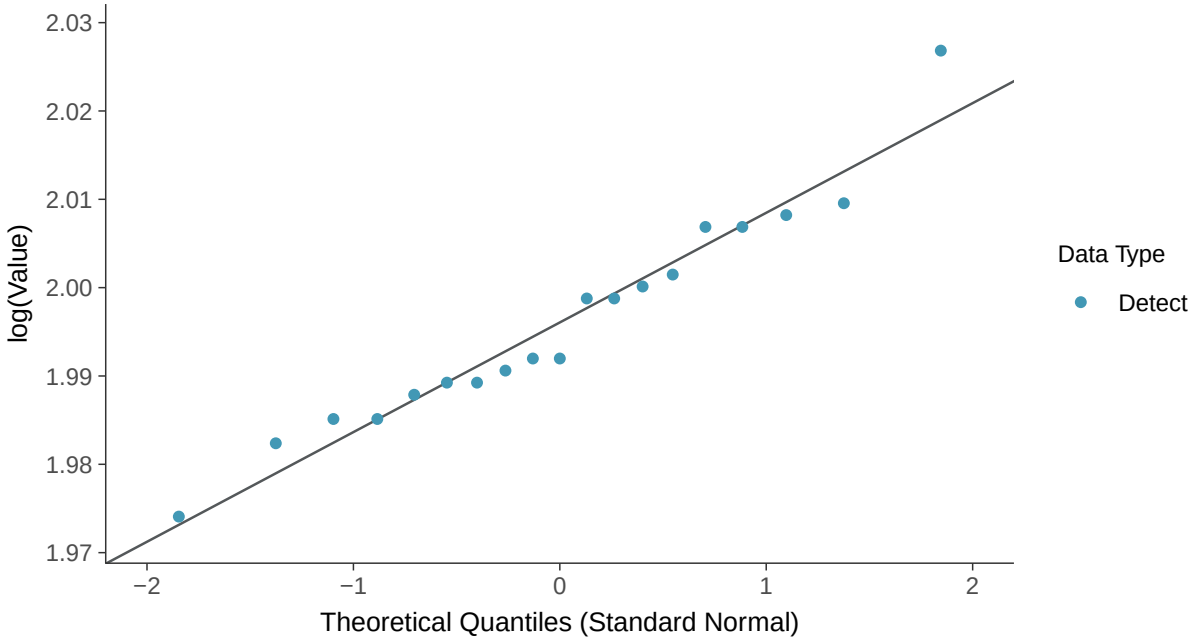
Normal Q-Q plot

pH (field), MW-03 (su)



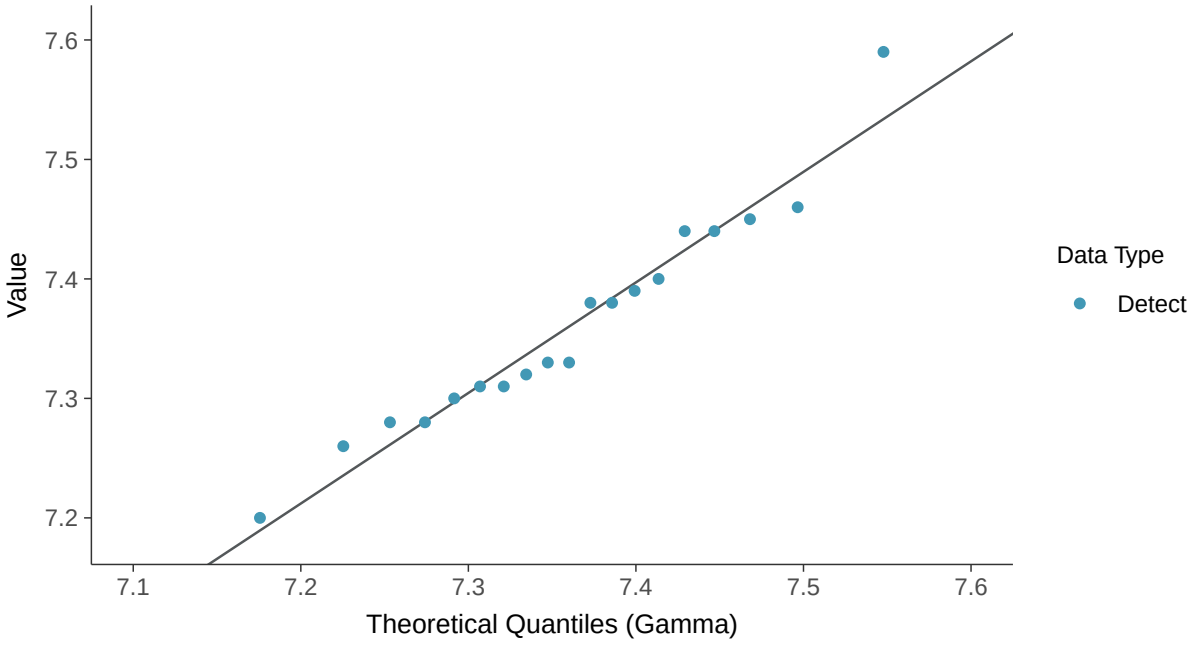
Lognormal Q-Q plot

pH (field), MW-03 (su)



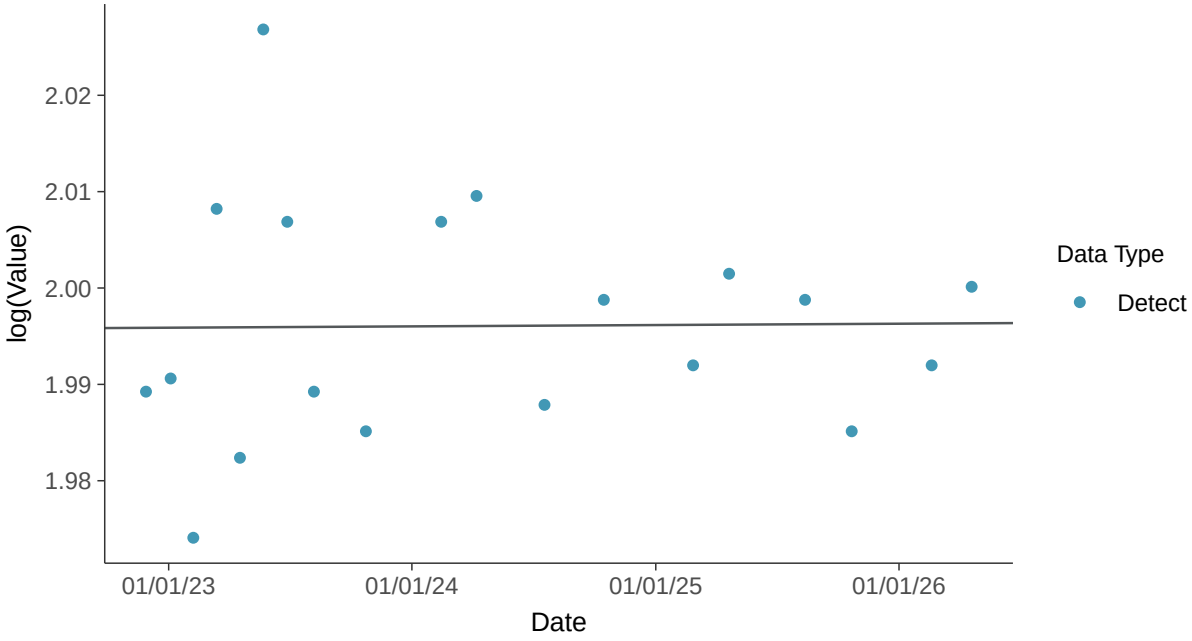
Gamma Q-Q plot

pH (field), MW-03 (su)



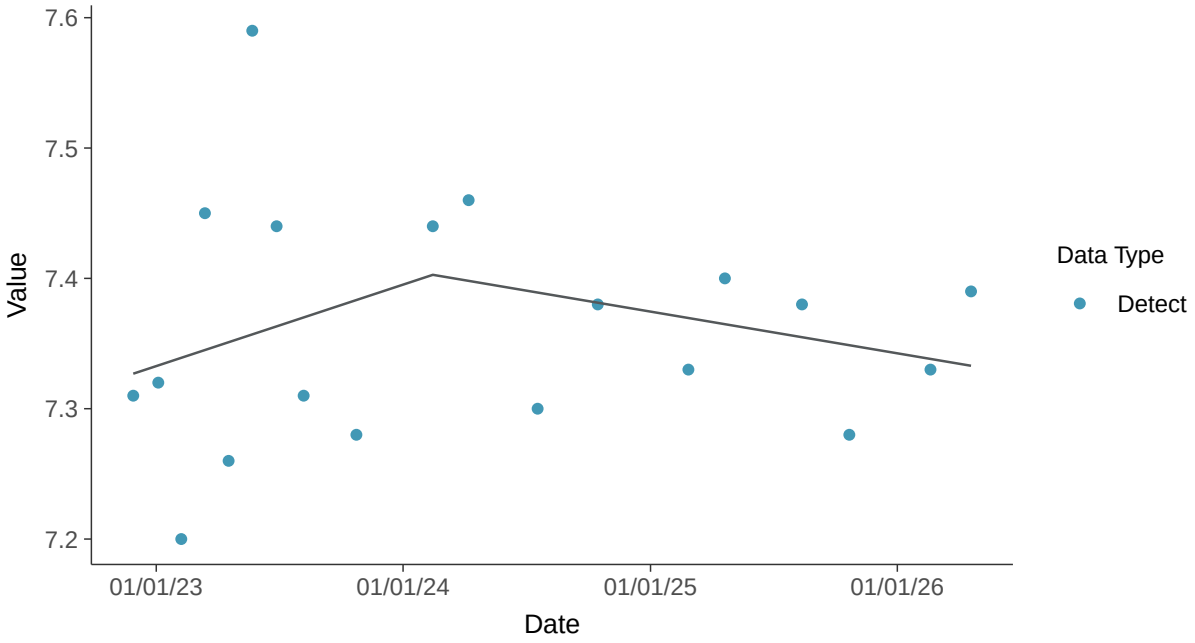
Trend Regression: Lognormal MLE

pH (field), MW-03 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-03 (su)

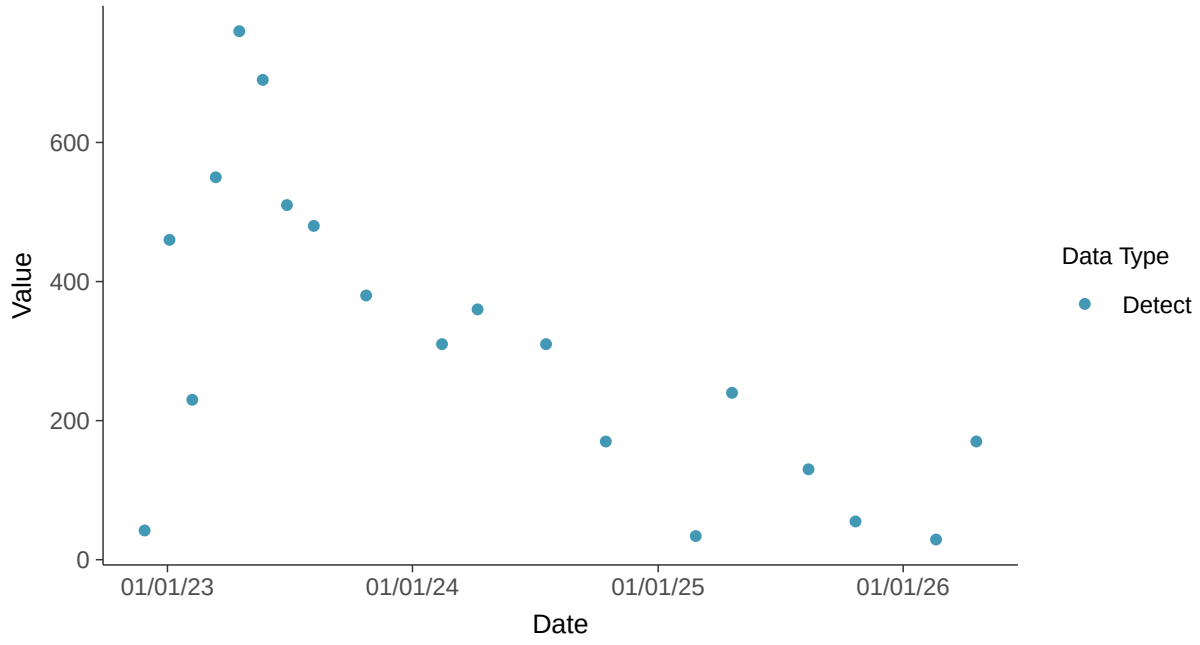


Appendix III: Sulfate (as SO4), MW-03

ID: 13_2_3_124

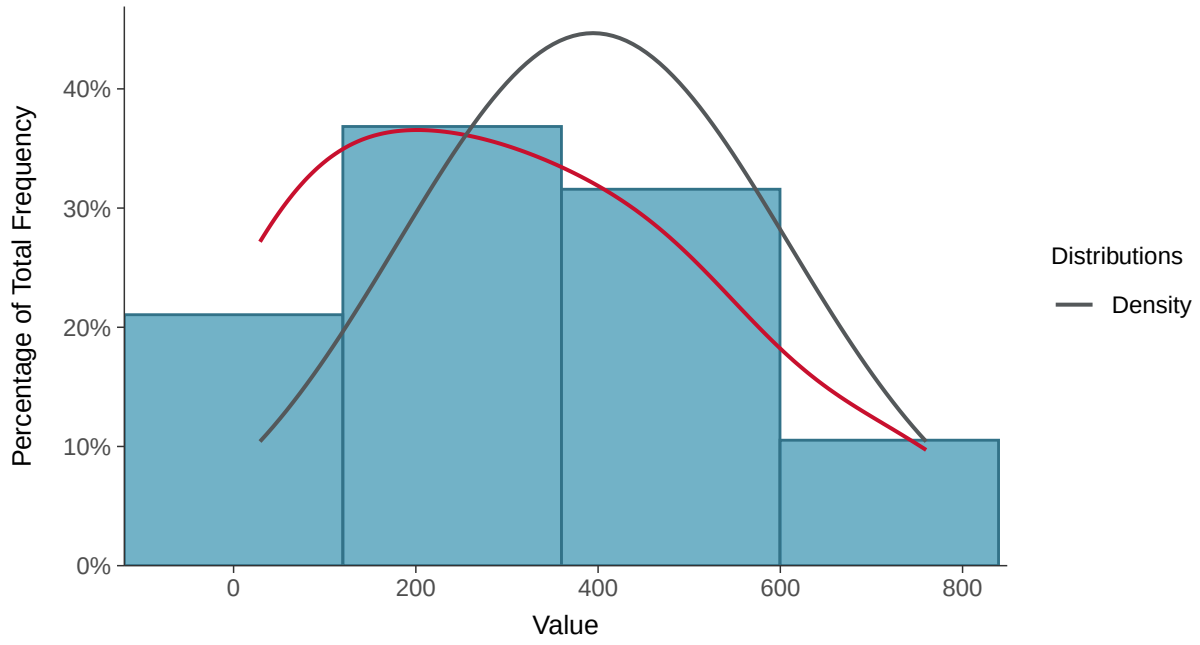
Scatter Plot

Sulfate (as SO4), MW-03 (mg/L)



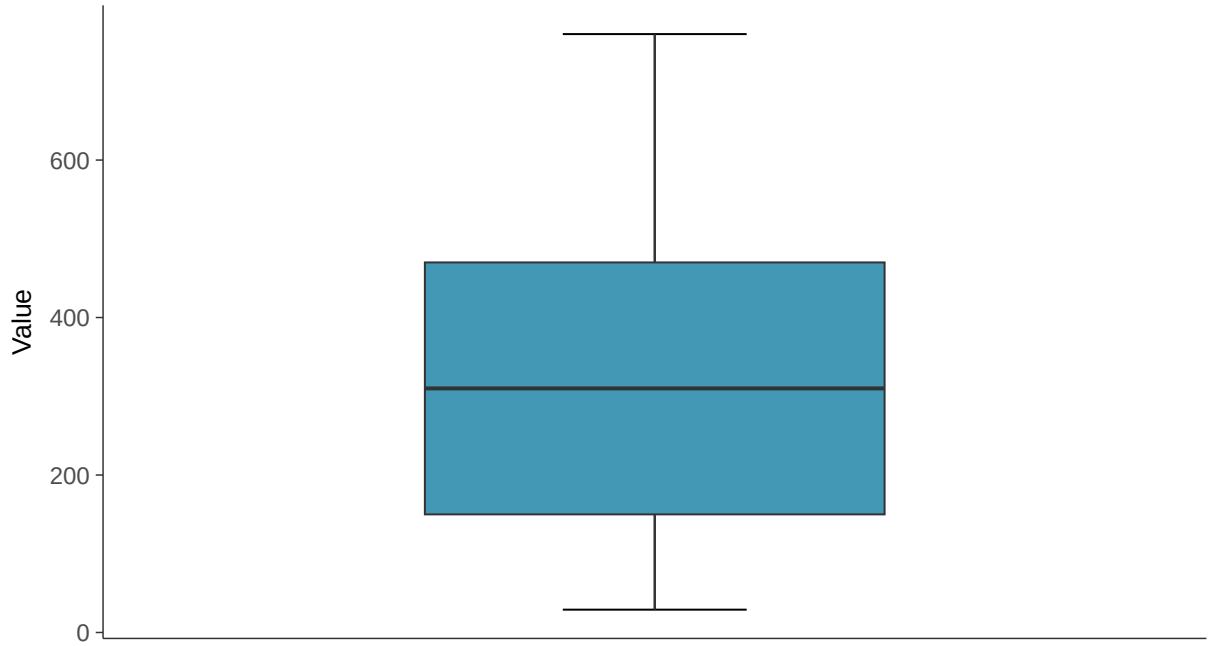
Histogram

Sulfate (as SO4), MW-03 (mg/L)



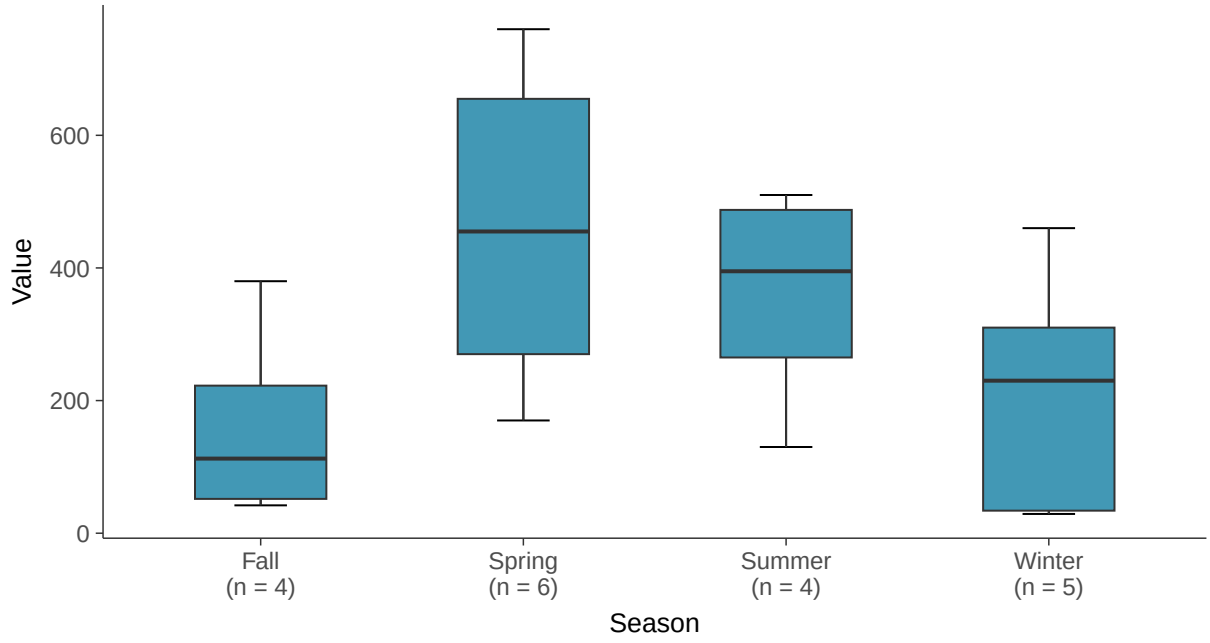
Boxplot

Sulfate (as SO4), MW-03 (mg/L)



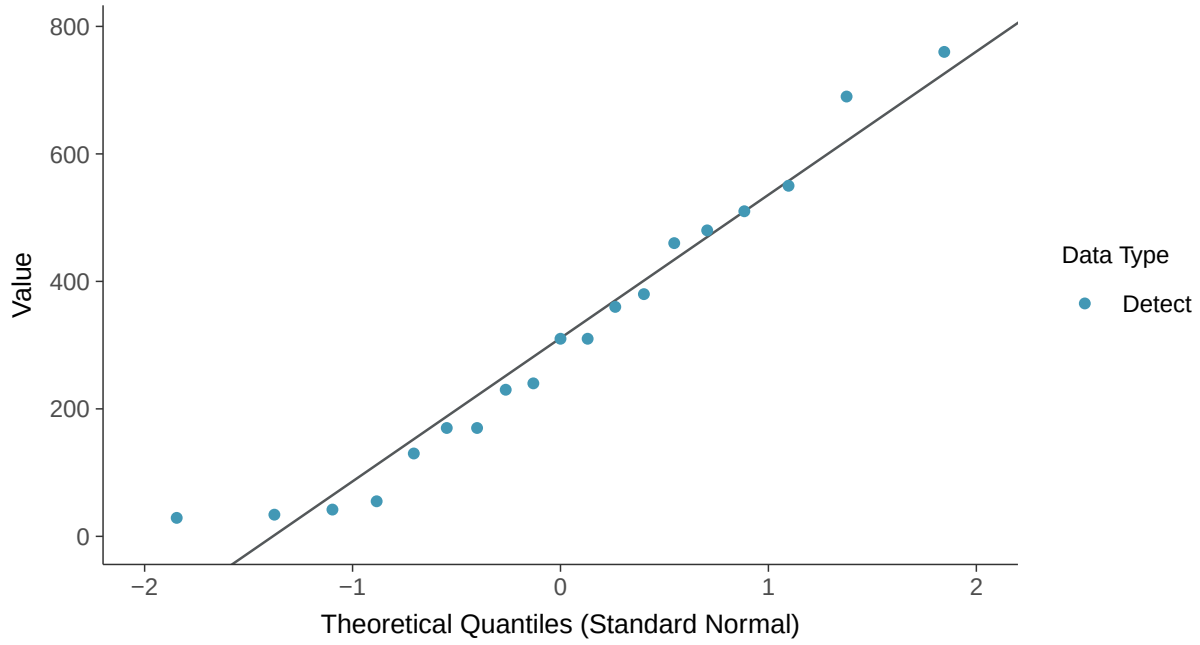
Boxplot by Season

Sulfate (as SO4), MW-03 (mg/L)



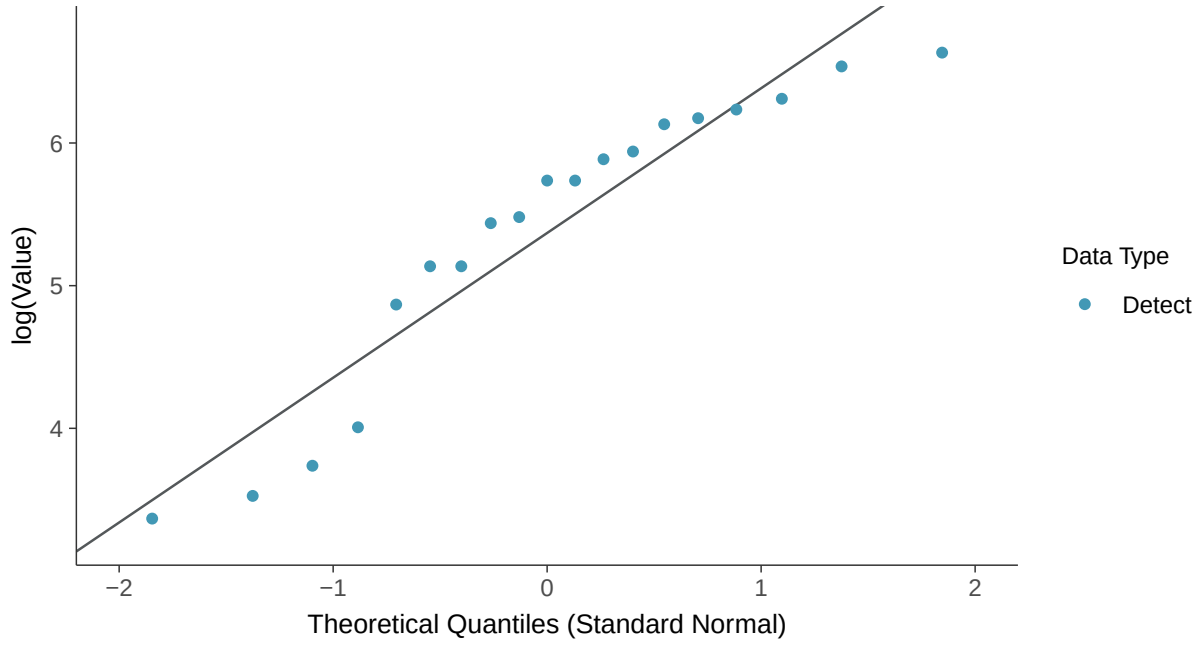
Normal Q-Q plot

Sulfate (as SO4), MW-03 (mg/L)



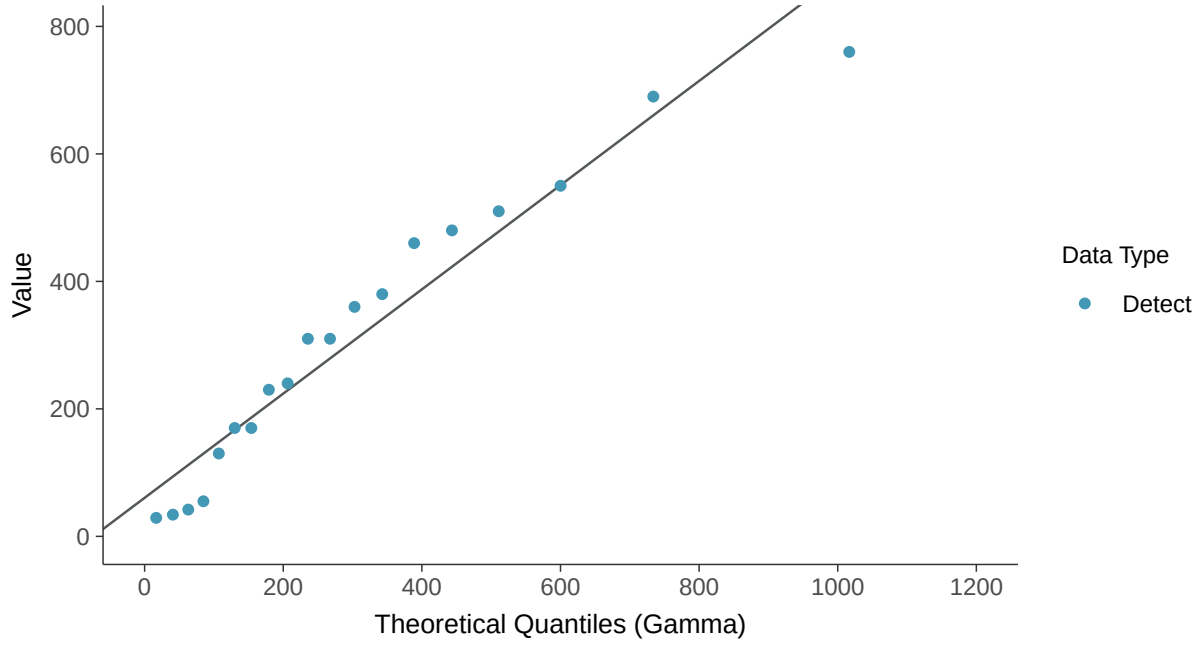
Lognormal Q-Q plot

Sulfate (as SO4), MW-03 (mg/L)



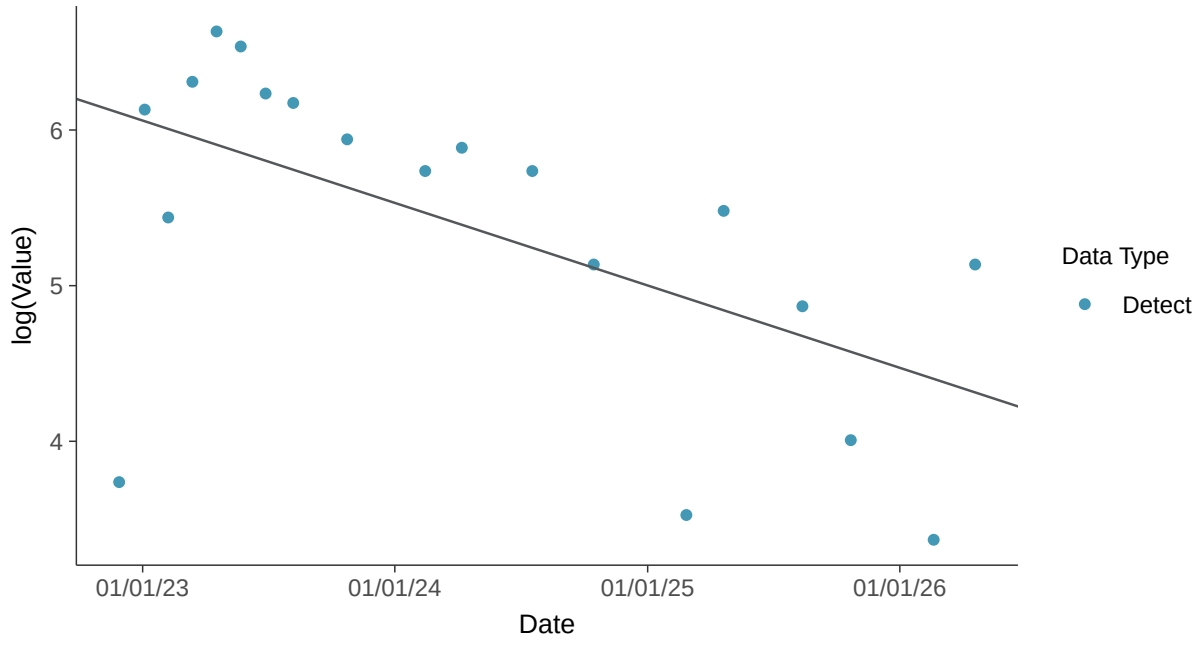
Gamma Q-Q plot

Sulfate (as SO4), MW-03 (mg/L)



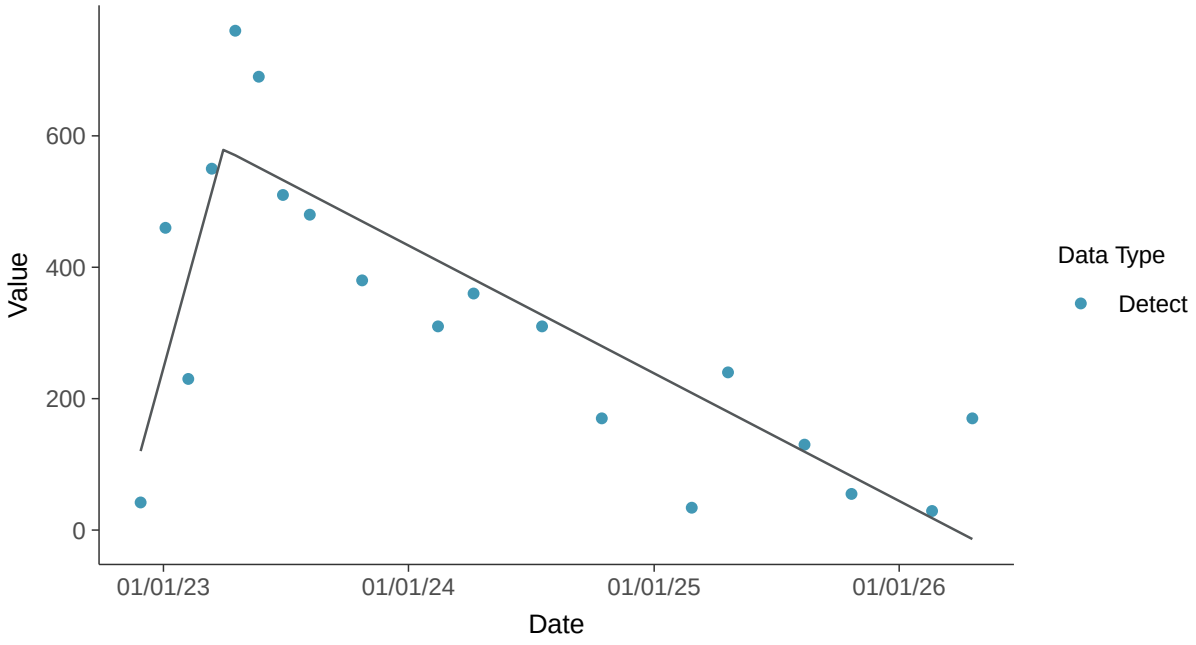
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-03 (mg/L)



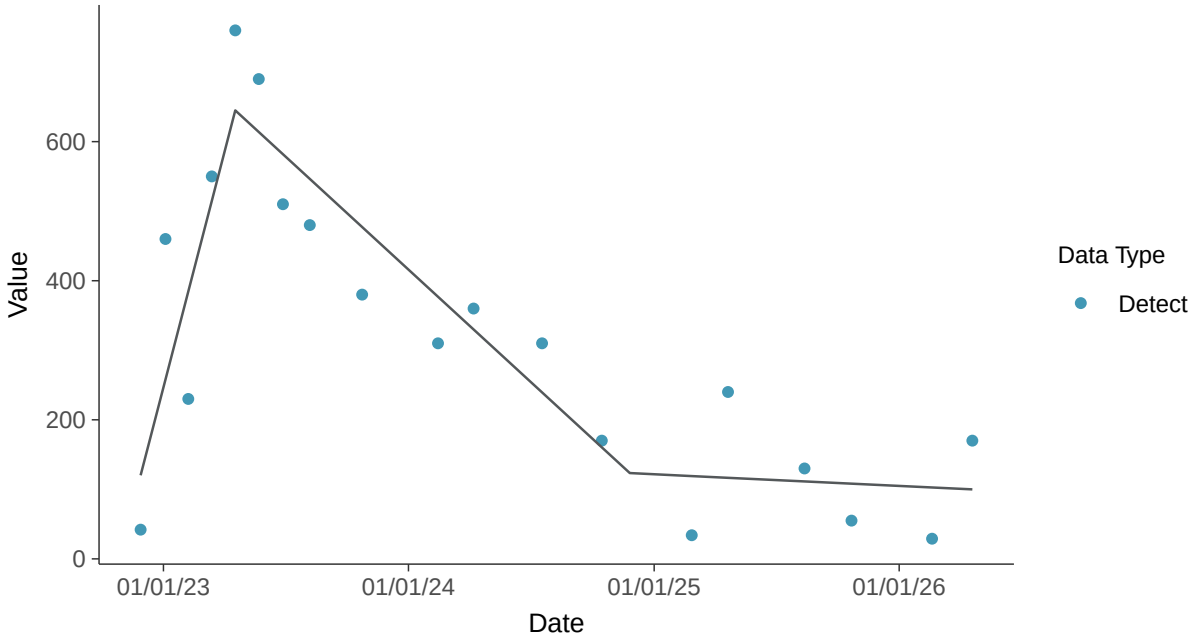
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-03 (mg/L)

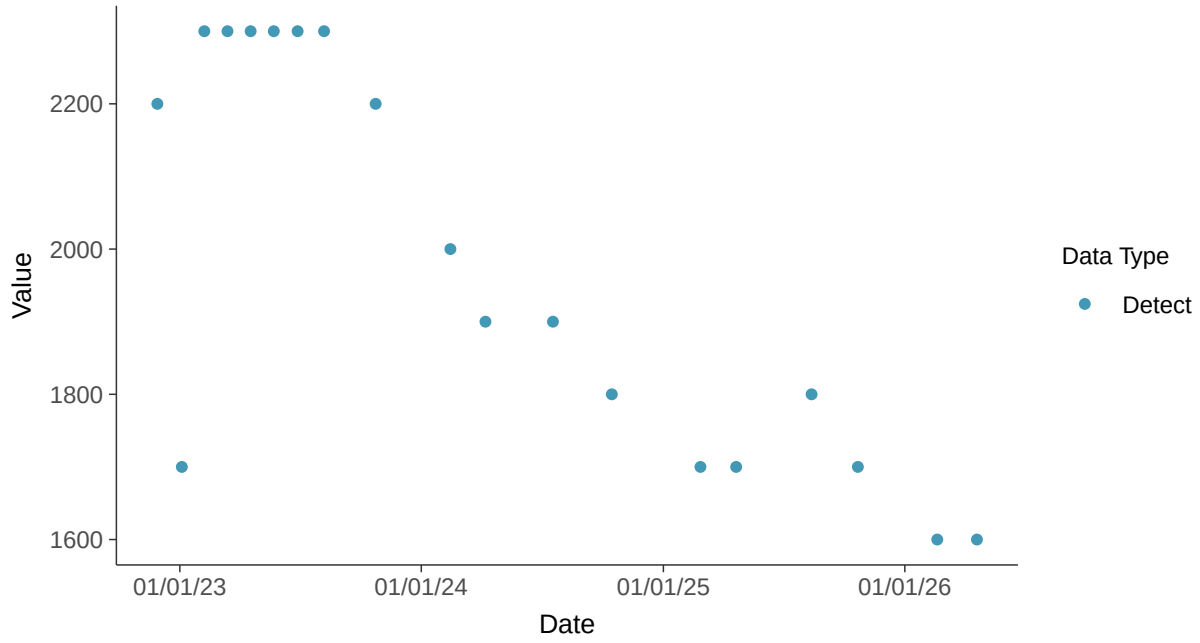


Appendix III: Total Dissolved Solids, MW-03

ID: 13_2_3_126

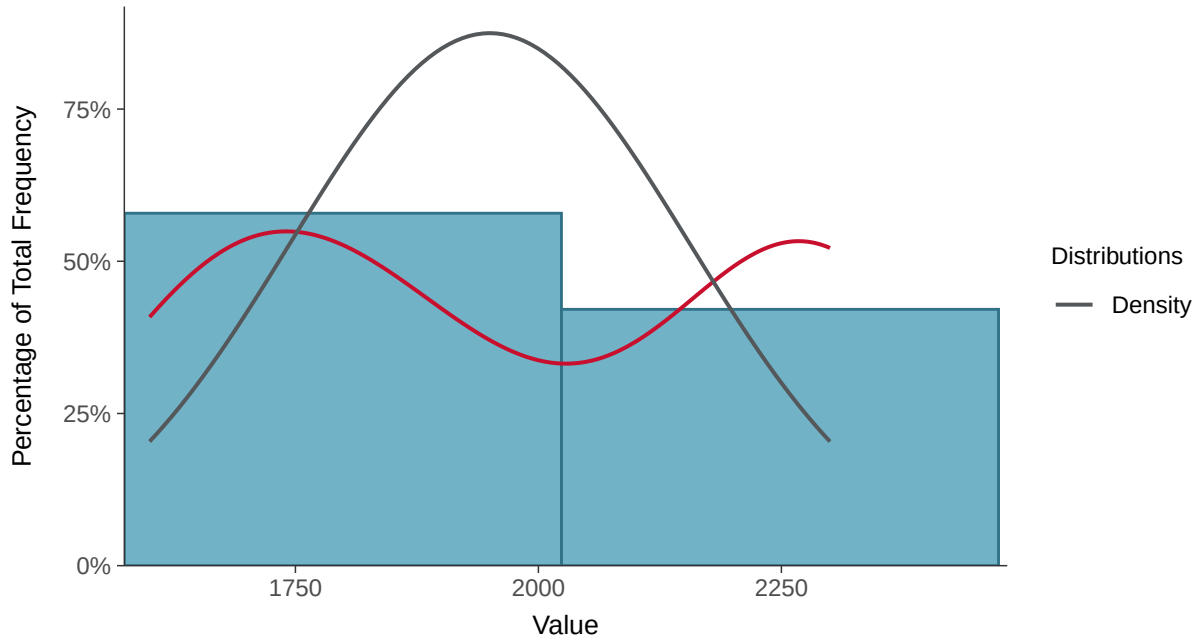
Scatter Plot

Total Dissolved Solids, MW-03 (mg/L)



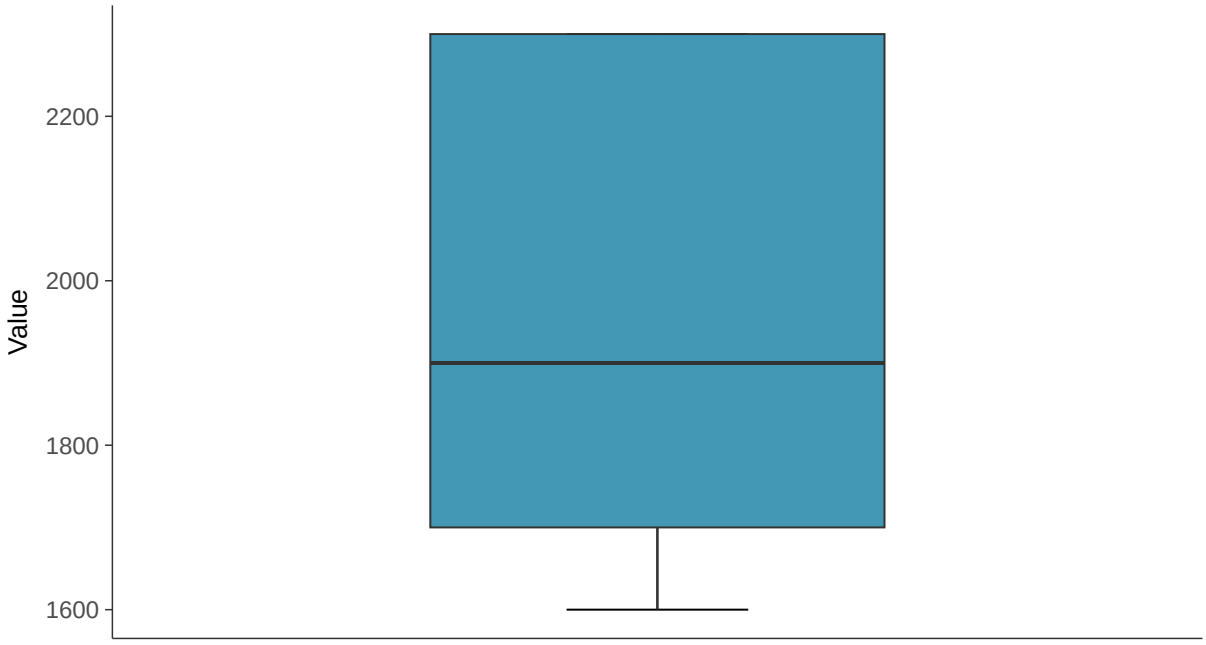
Histogram

Total Dissolved Solids, MW-03 (mg/L)



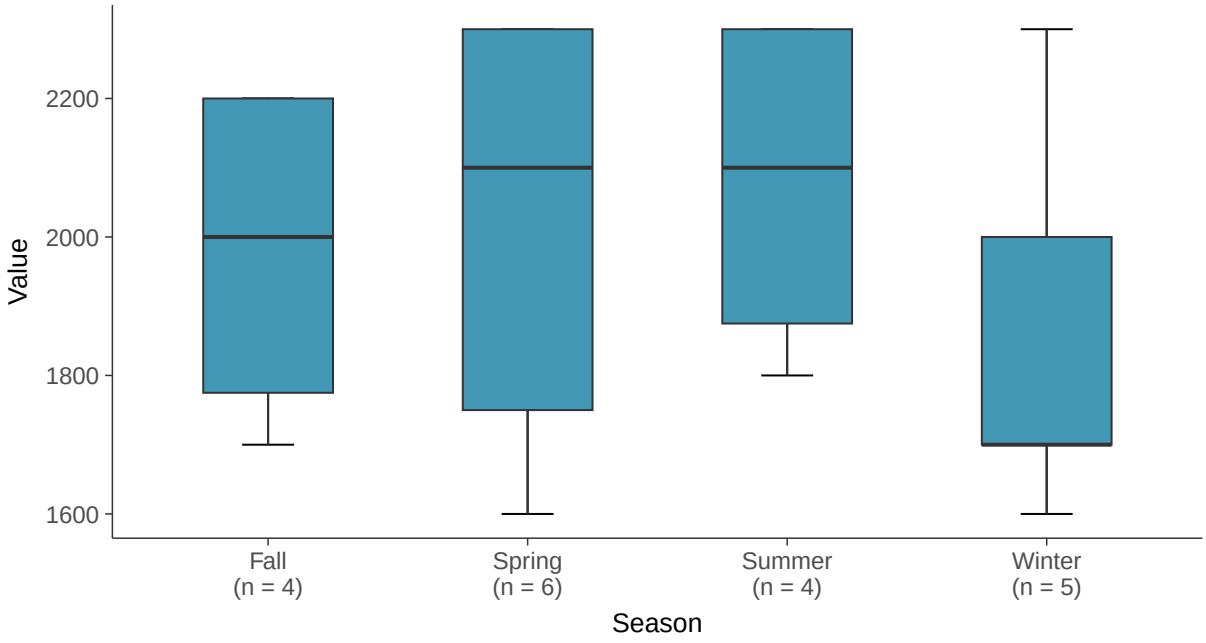
Boxplot

Total Dissolved Solids, MW-03 (mg/L)



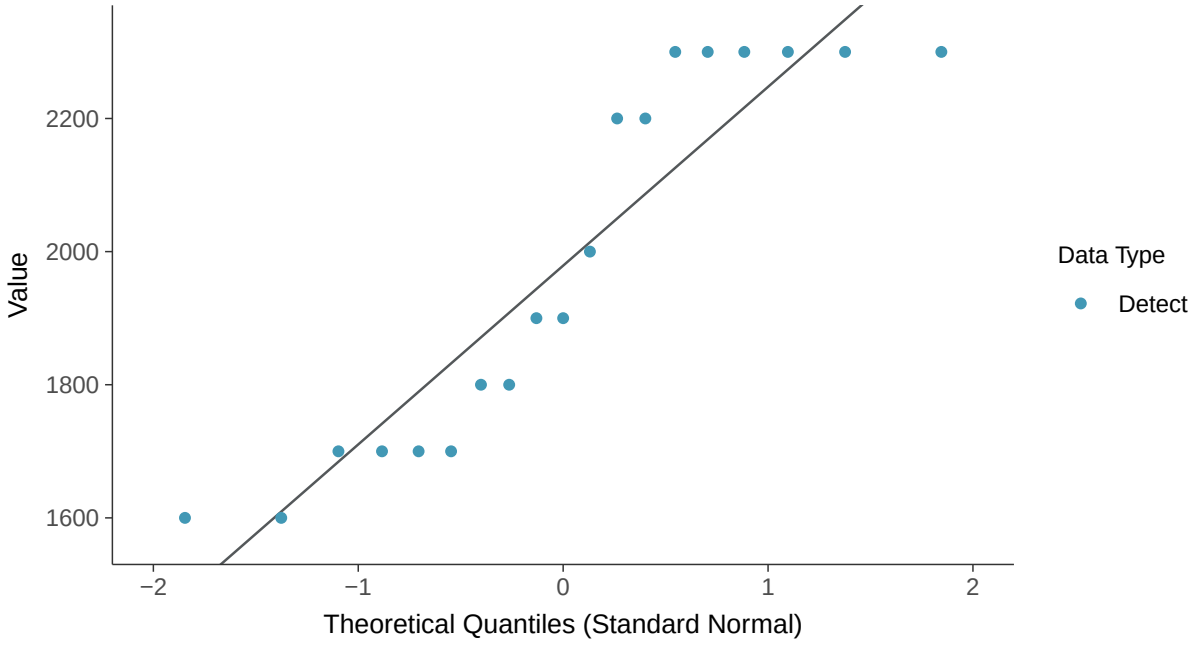
Boxplot by Season

Total Dissolved Solids, MW-03 (mg/L)



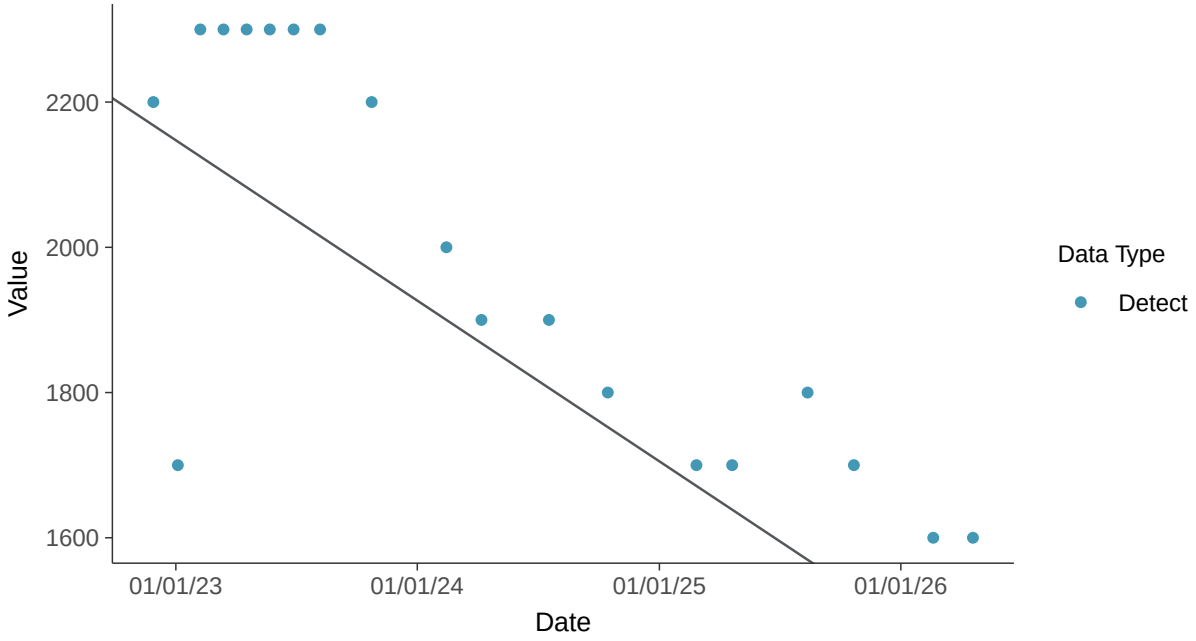
Normal Q-Q plot

Total Dissolved Solids, MW-03 (mg/L)



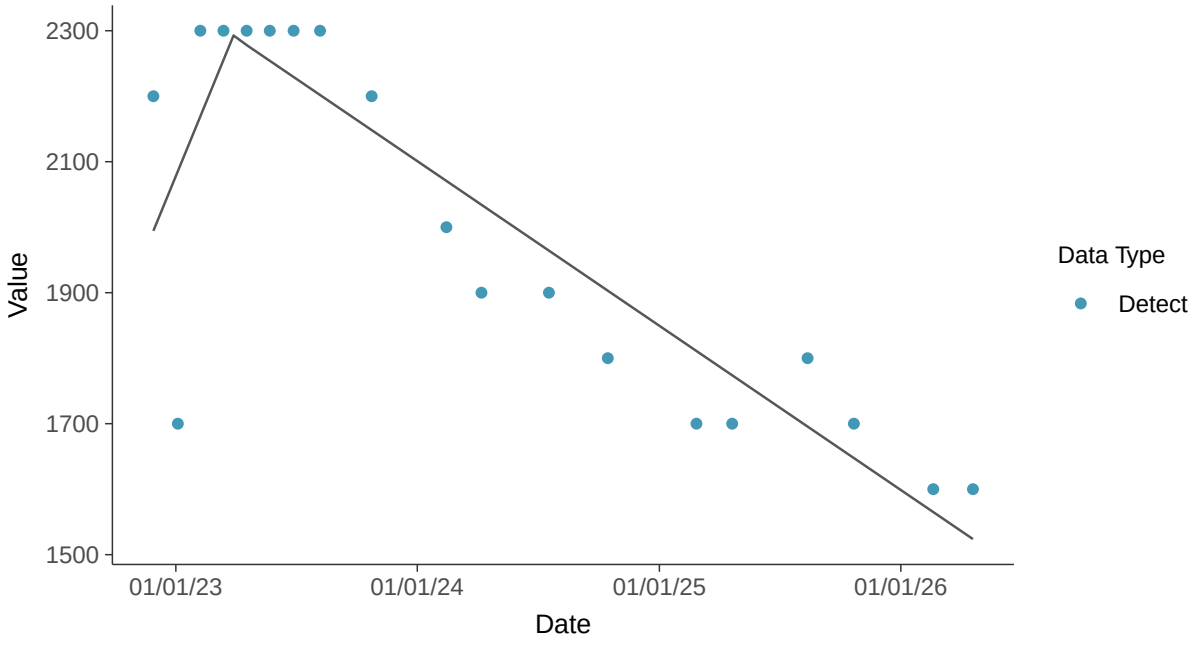
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-03 (mg/L)



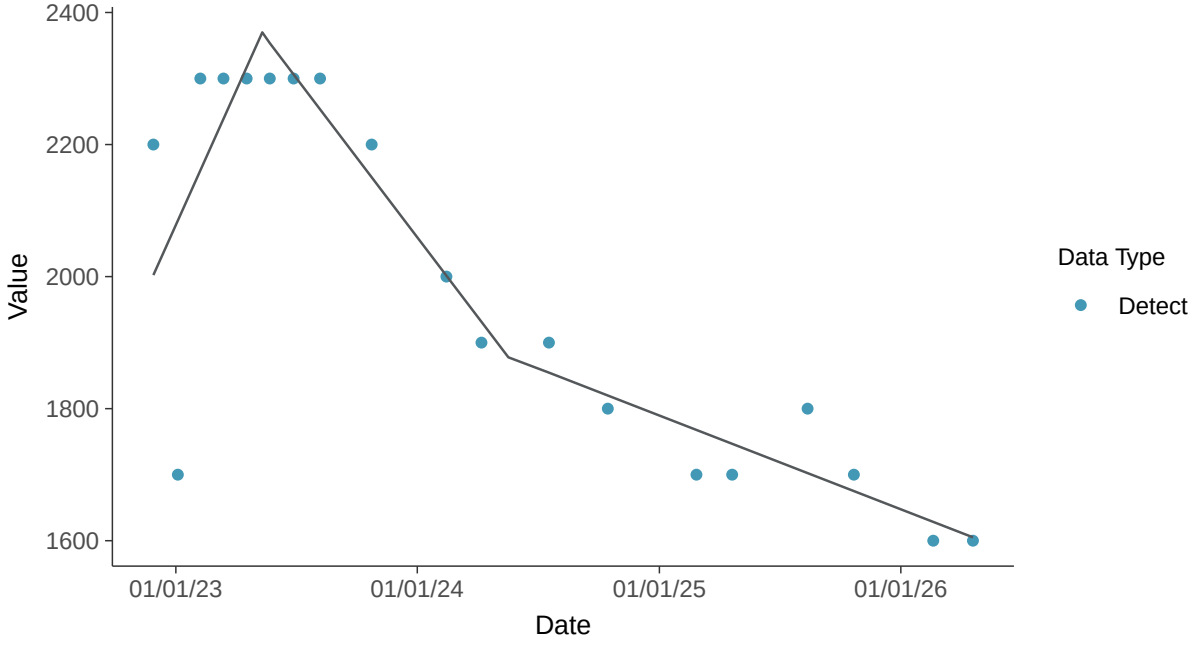
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-03 (mg/L)

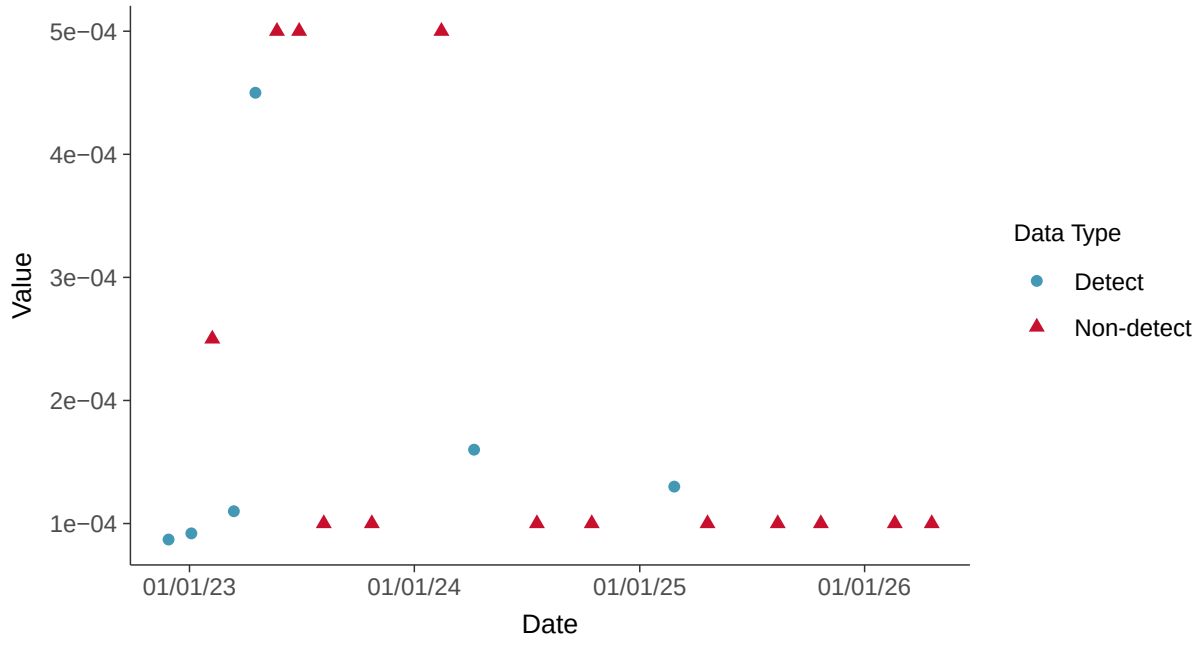


Appendix IV: Antimony, MW-03

ID: 13_2_4_101

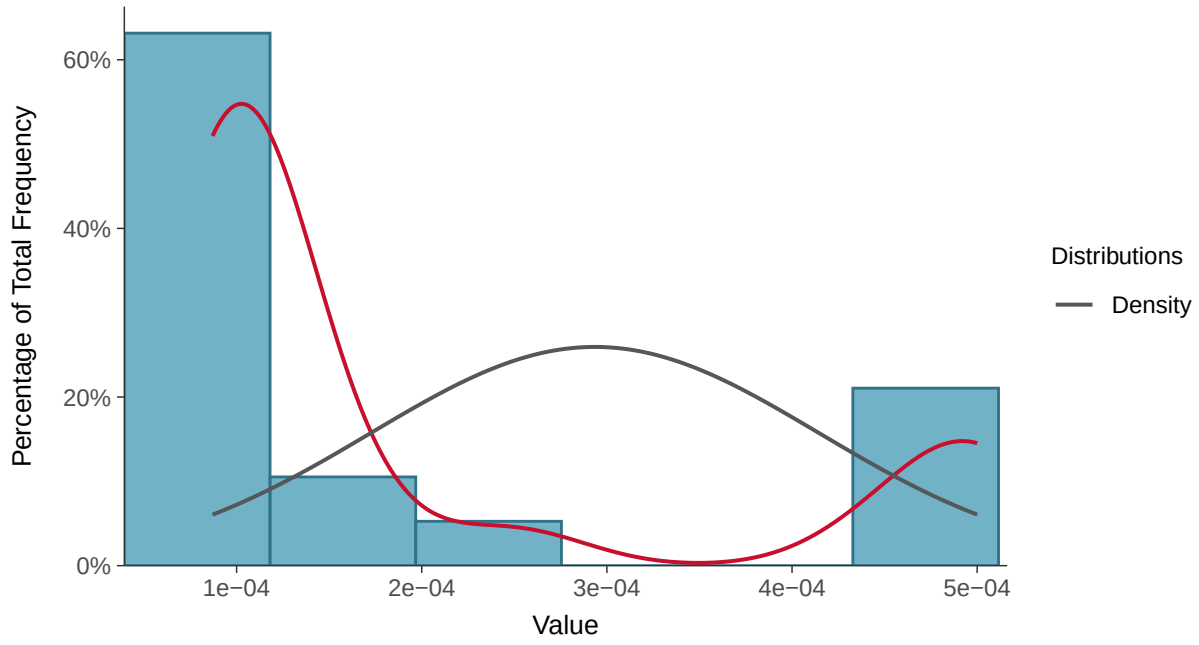
Scatter Plot

Antimony, MW-03 (mg/L)



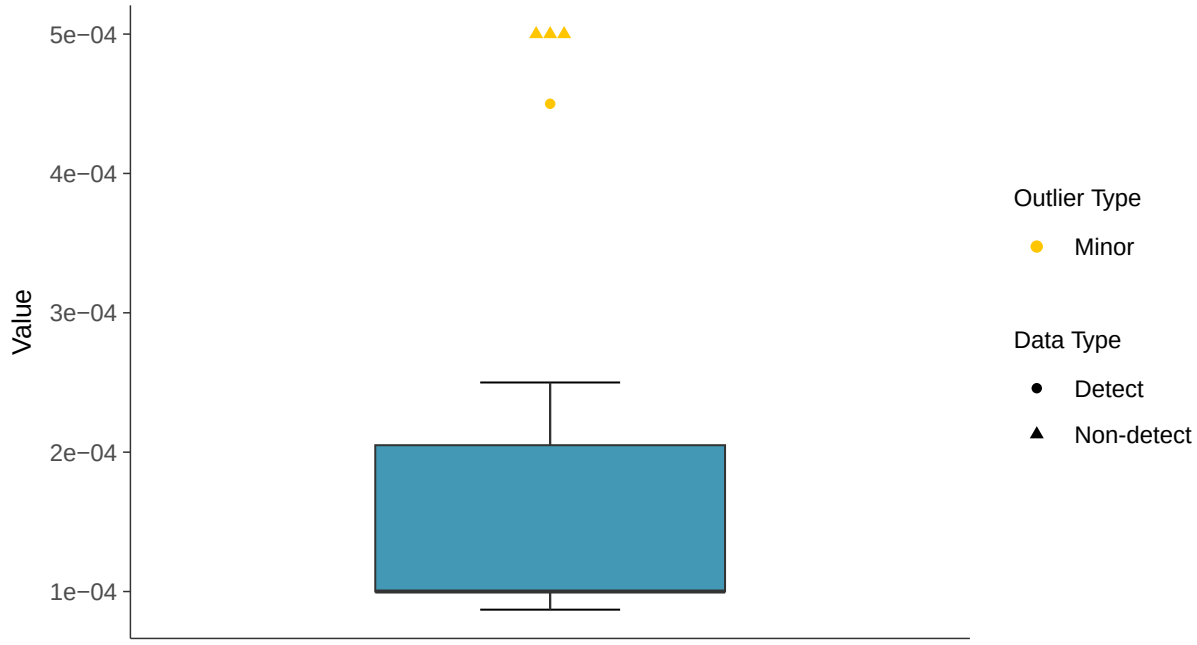
Histogram

Antimony, MW-03 (mg/L)



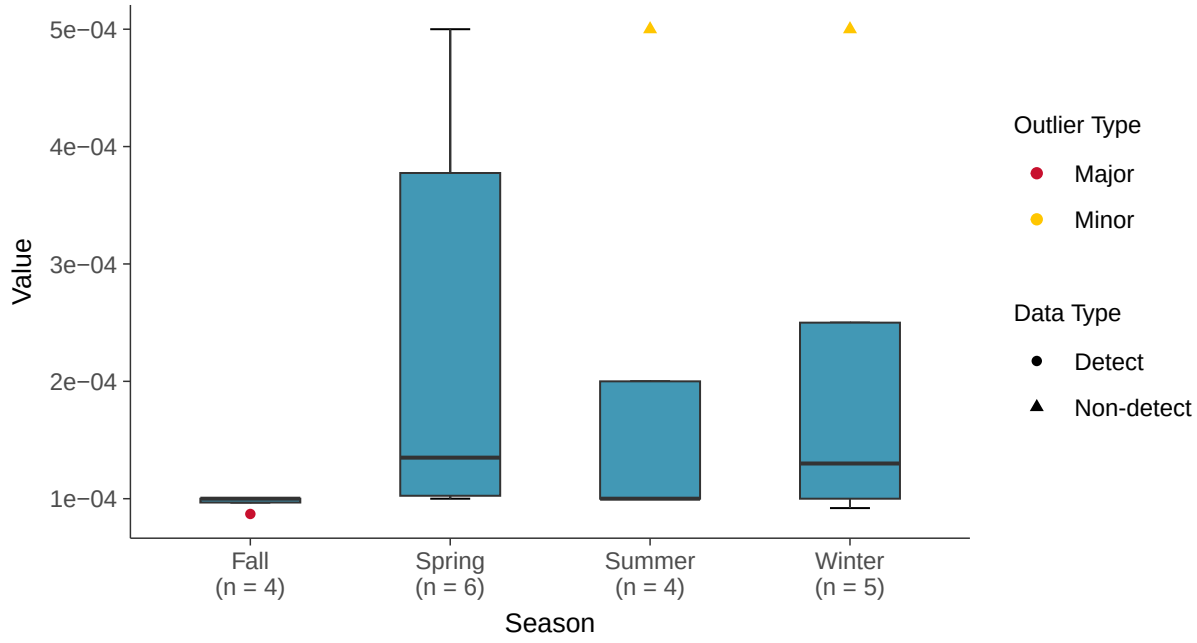
Boxplot

Antimony, MW-03 (mg/L)



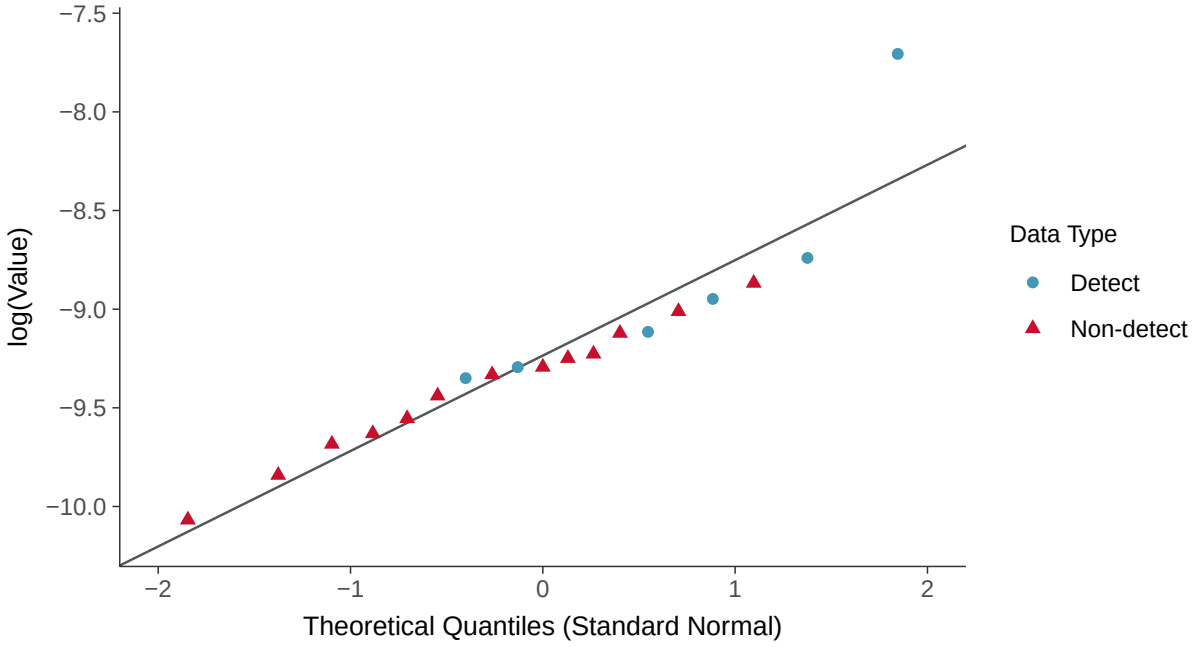
Boxplot by Season

Antimony, MW-03 (mg/L)



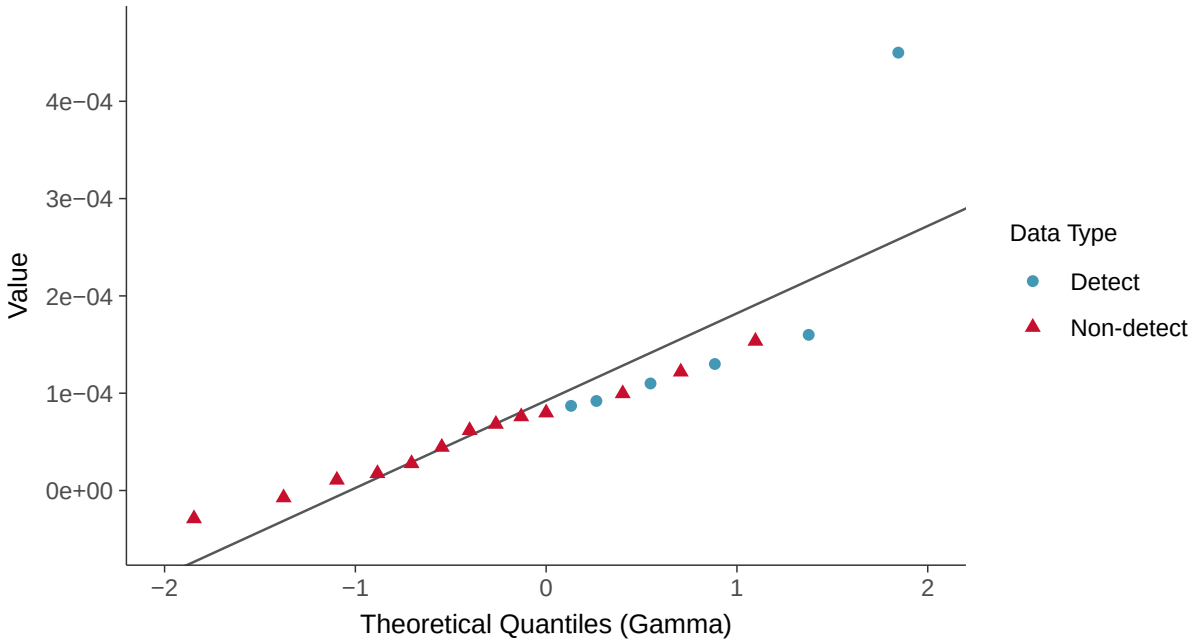
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-03 (mg/L)



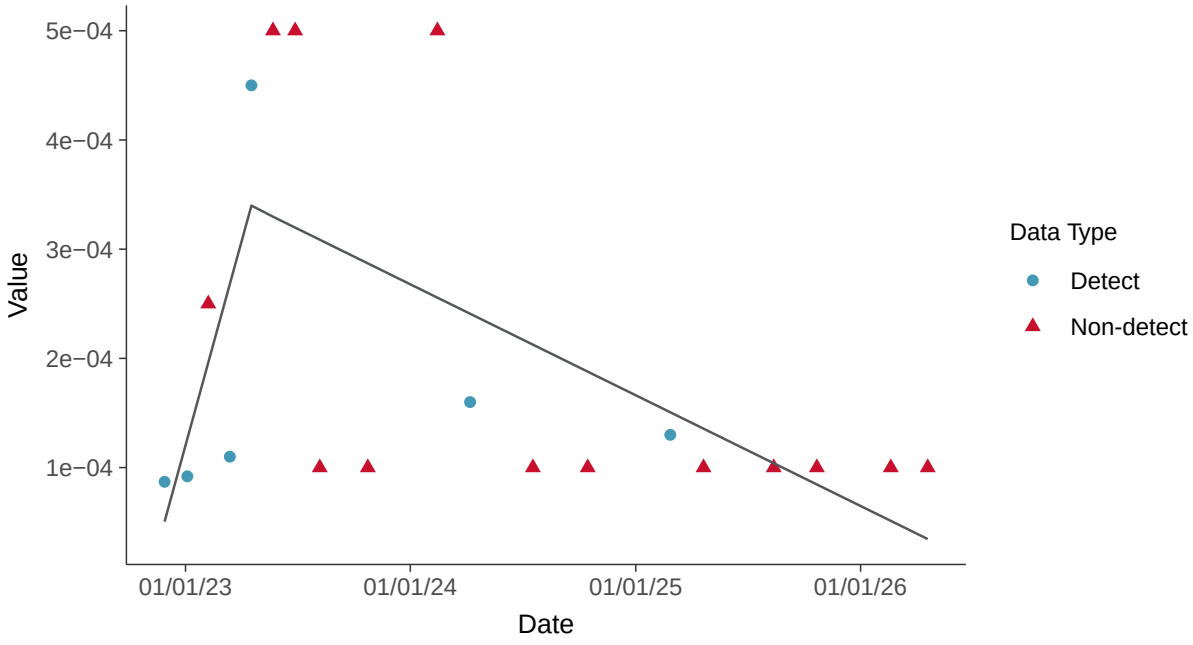
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-03 (mg/L)



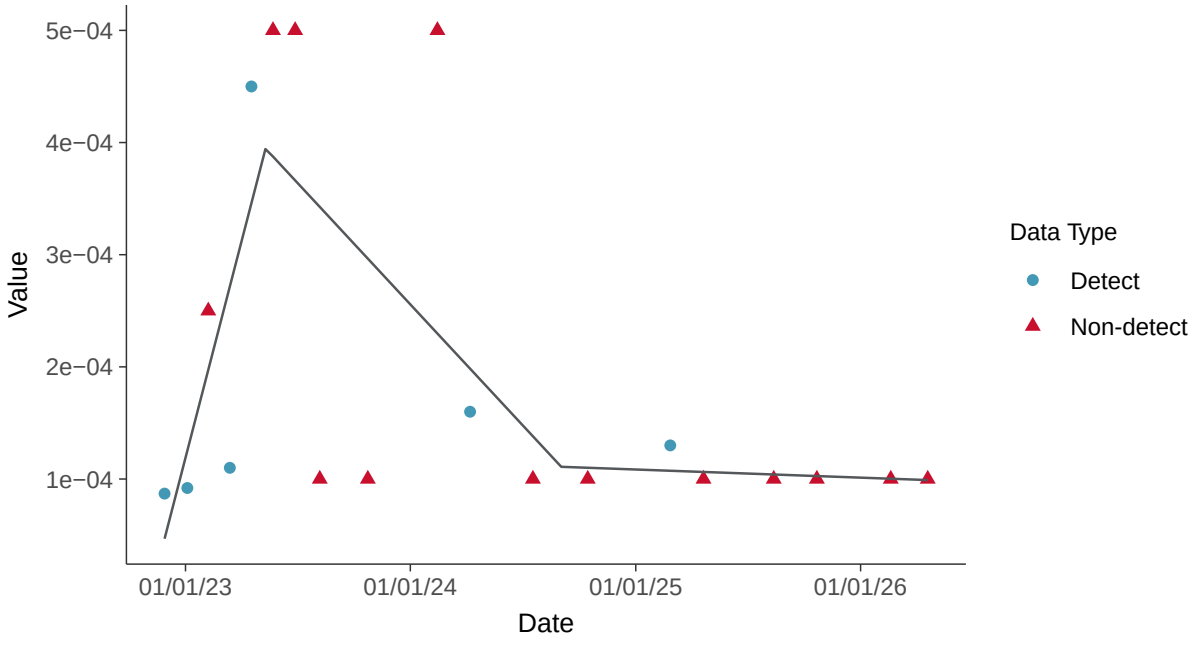
Trend Regression: Piecewise Linear-Linear

Antimony, MW-03 (mg/L)



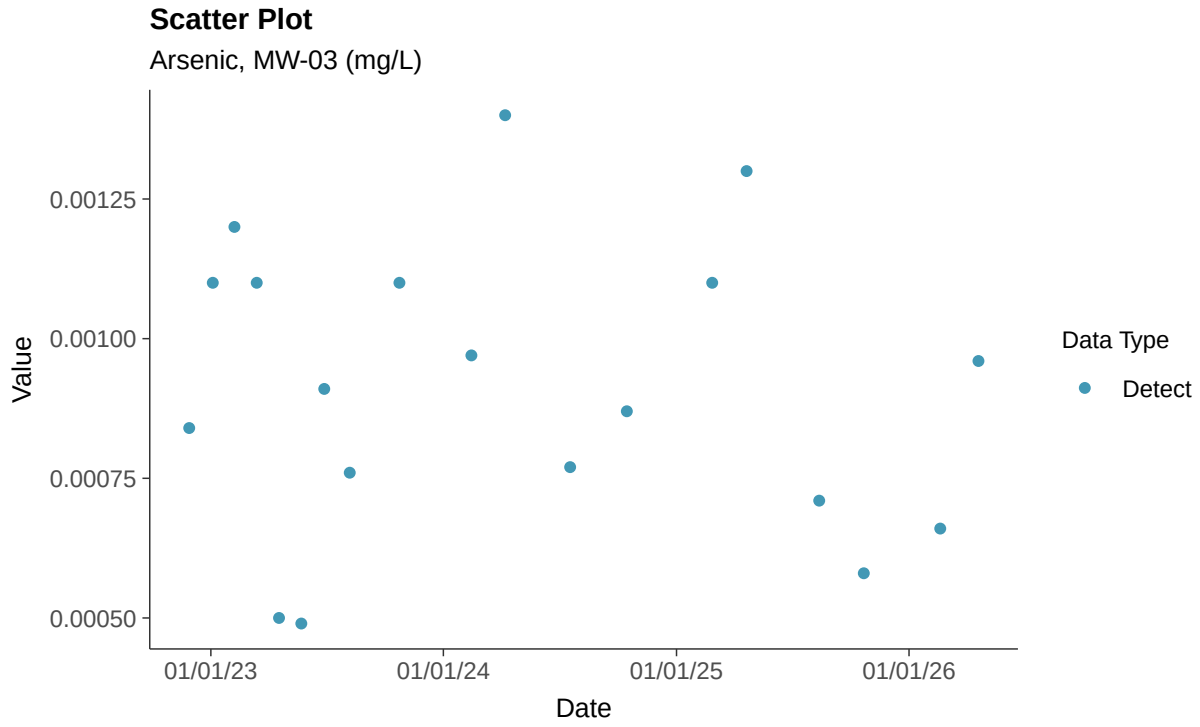
Trend Regression: Piecewise Linear-Linear-Linear

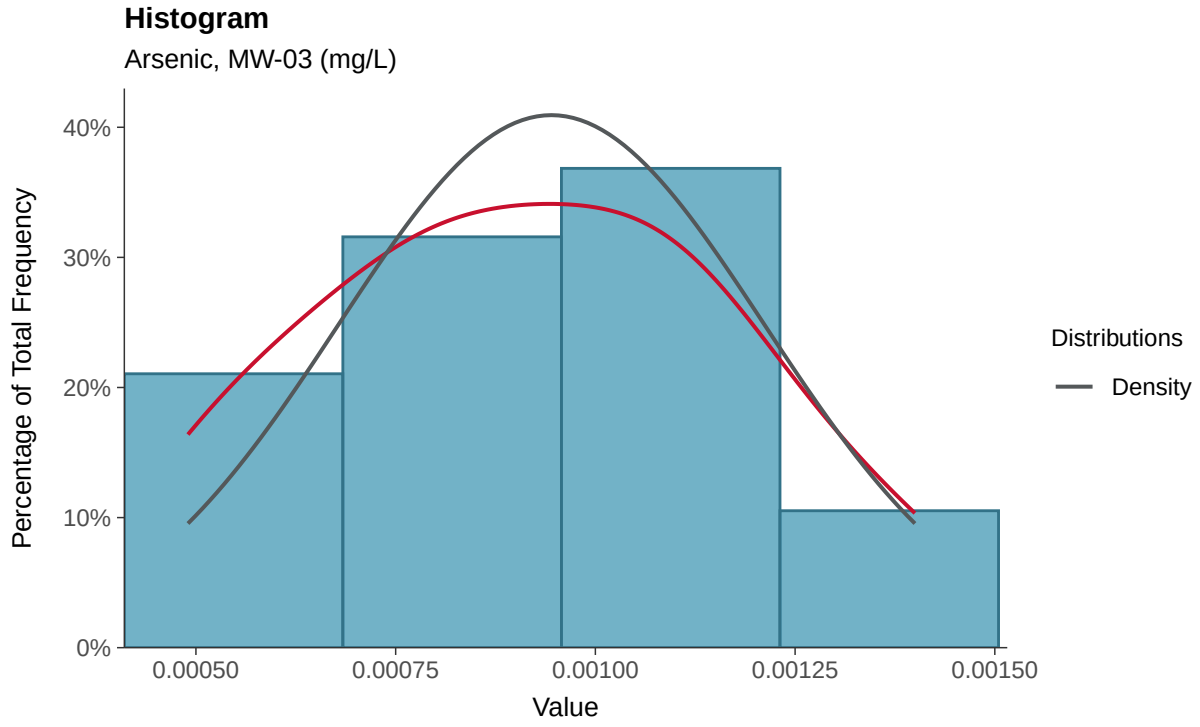
Antimony, MW-03 (mg/L)



Appendix IV: Arsenic, MW-03

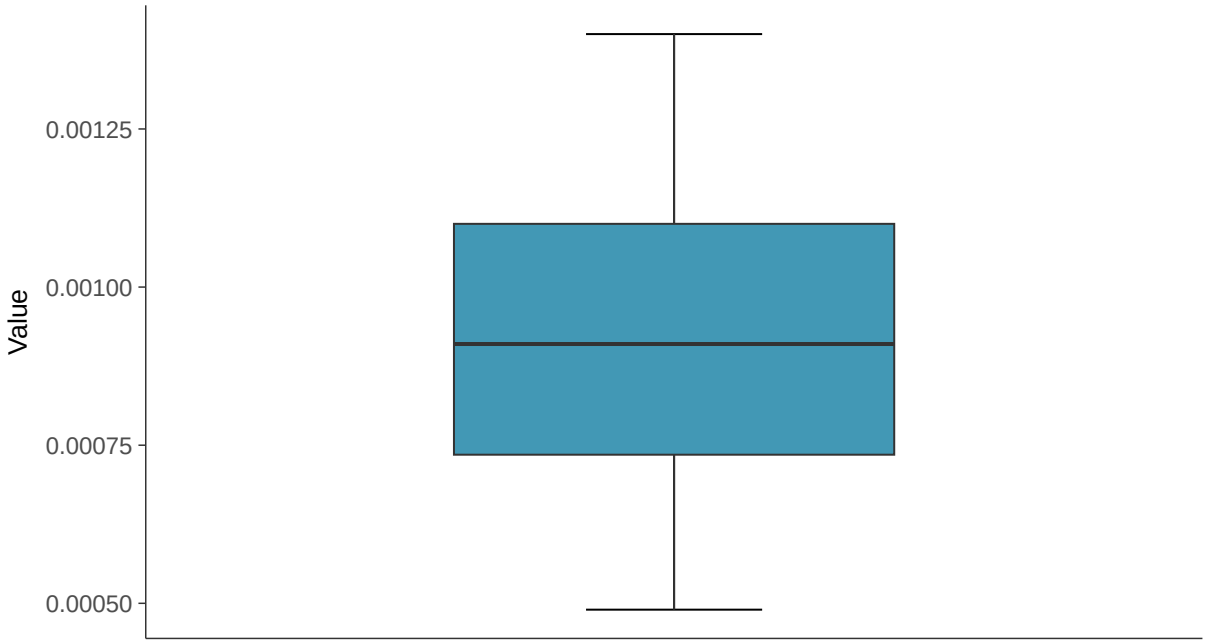
ID: 13_2_4_102





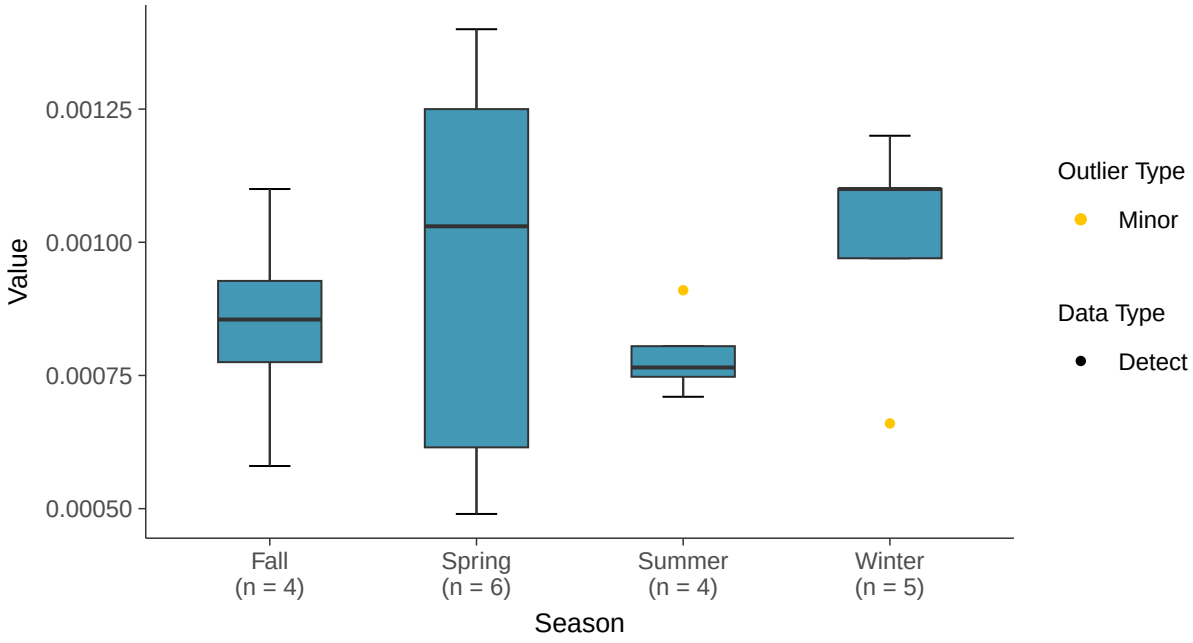
Boxplot

Arsenic, MW-03 (mg/L)



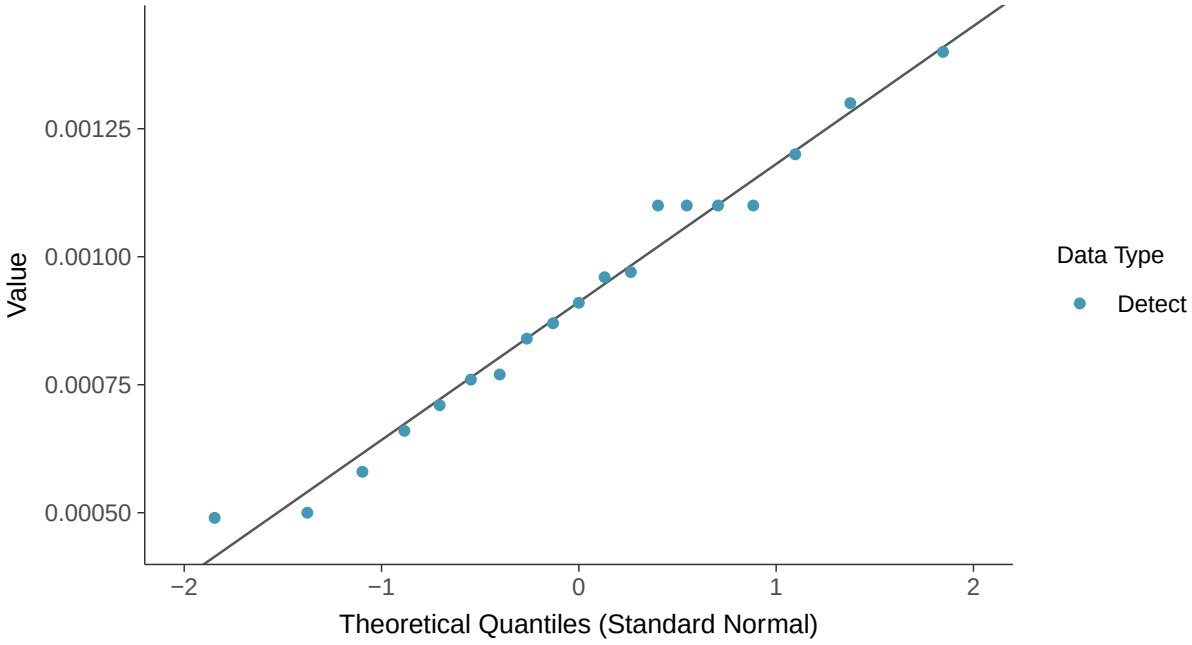
Boxplot by Season

Arsenic, MW-03 (mg/L)



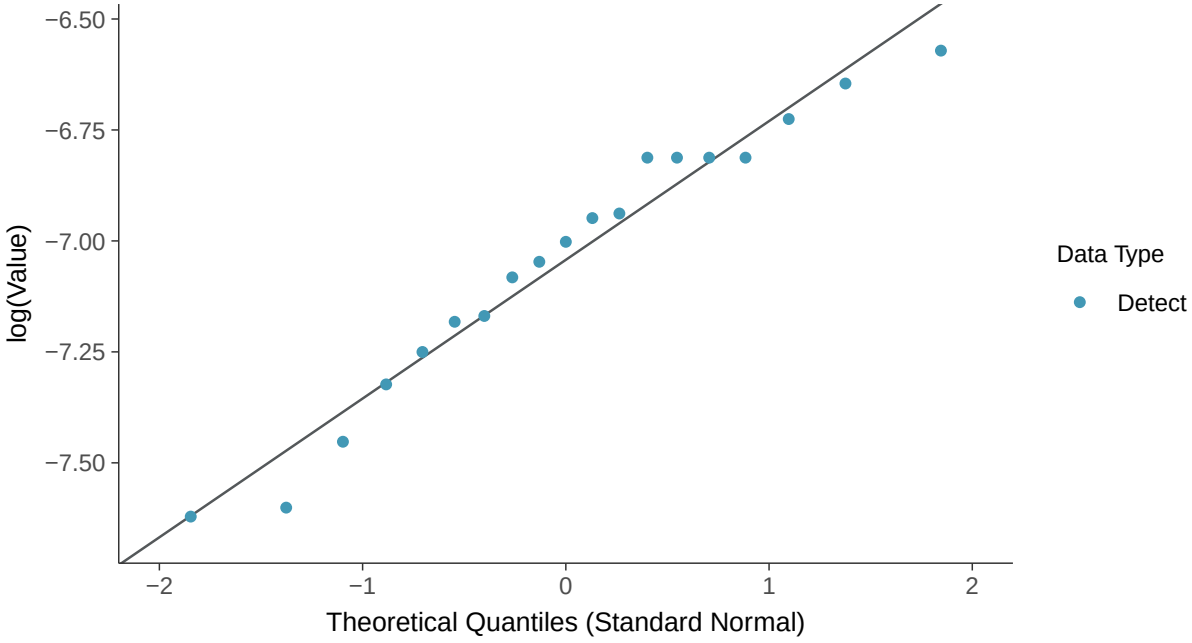
Normal Q-Q plot

Arsenic, MW-03 (mg/L)



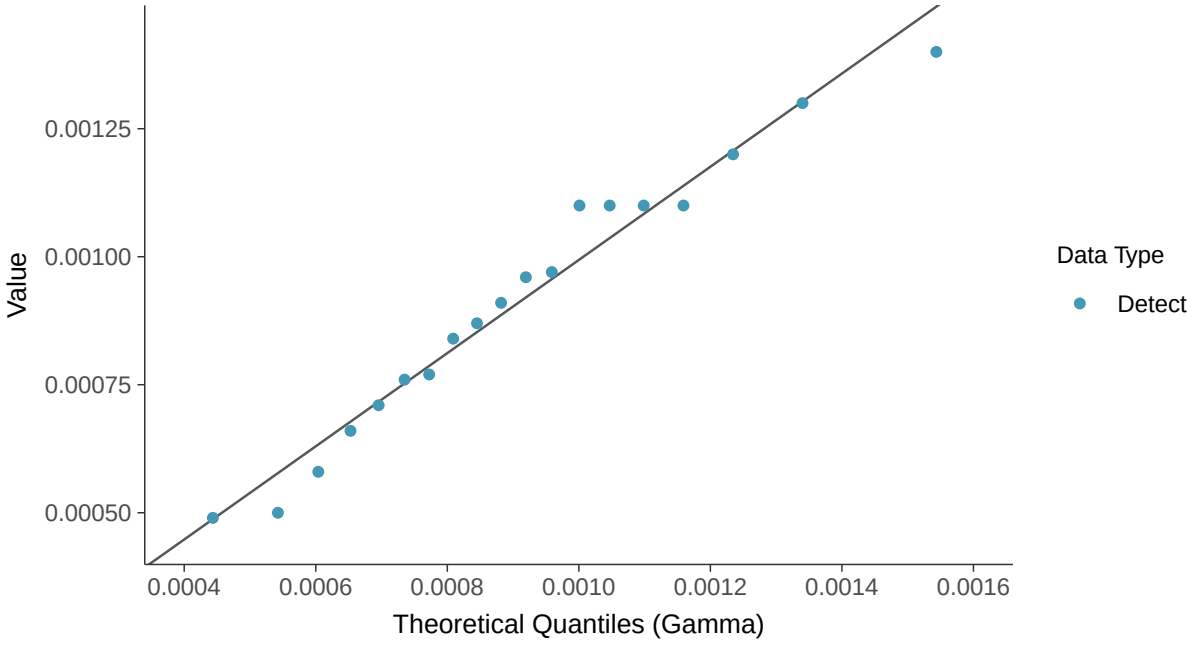
Lognormal Q-Q plot

Arsenic, MW-03 (mg/L)



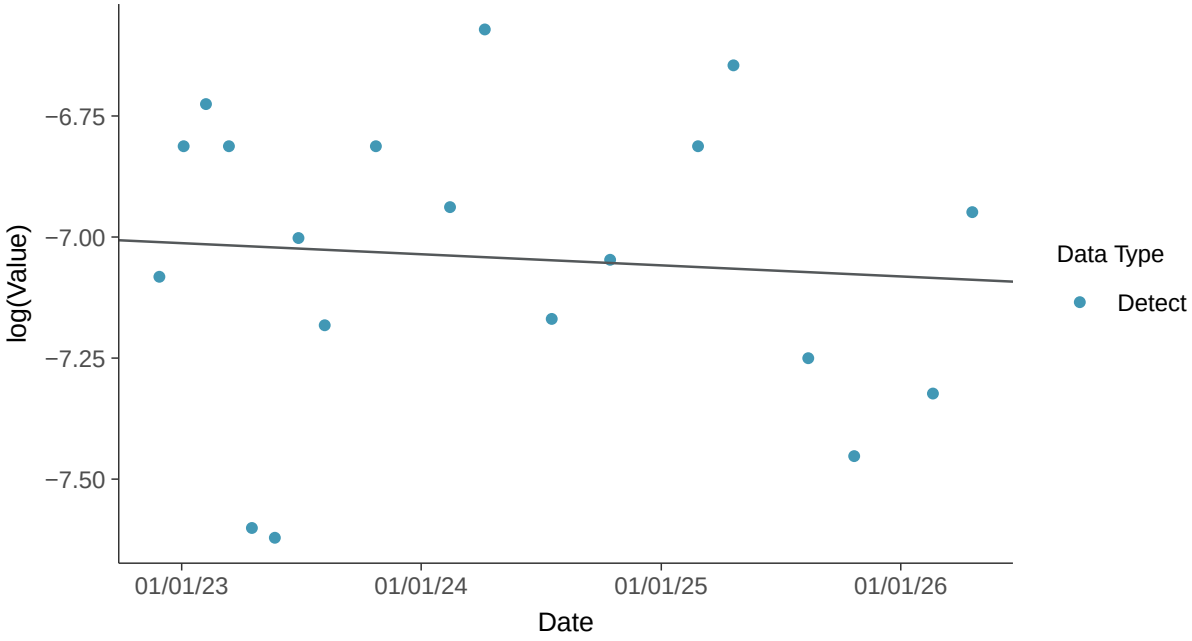
Gamma Q-Q plot

Arsenic, MW-03 (mg/L)



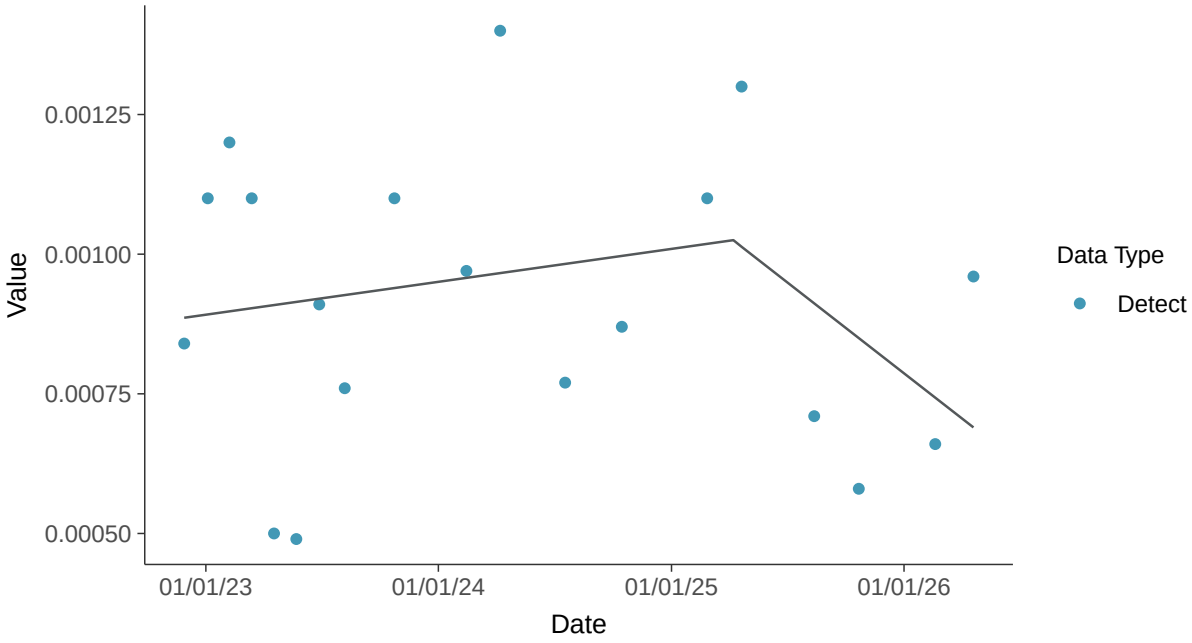
Trend Regression: Lognormal MLE

Arsenic, MW-03 (mg/L)



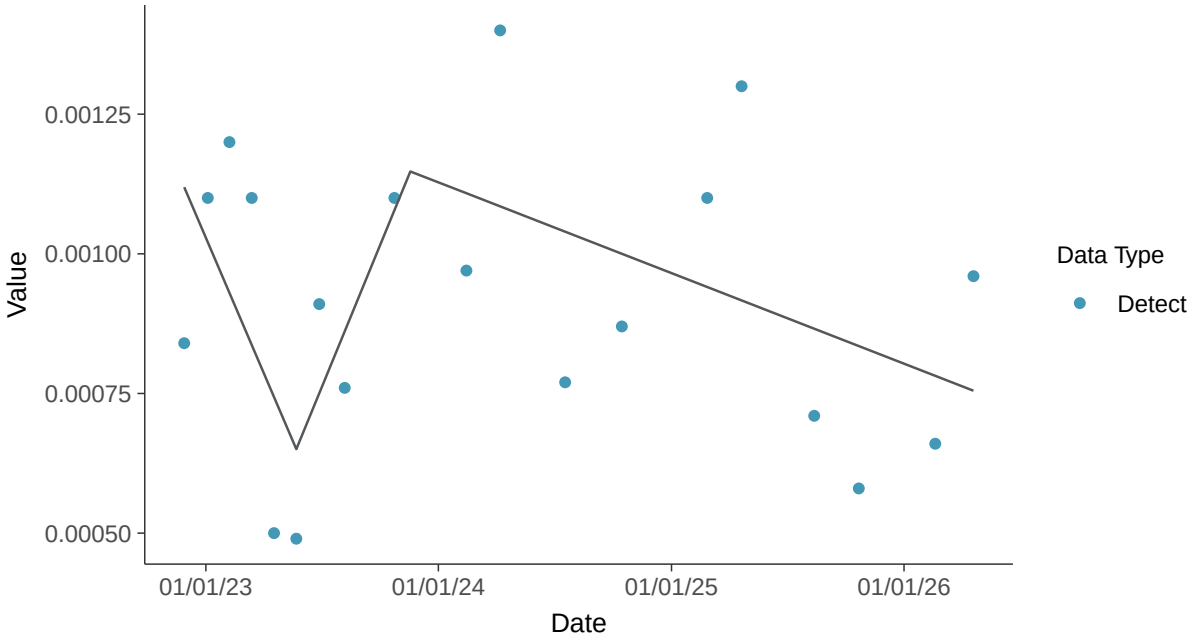
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-03 (mg/L)

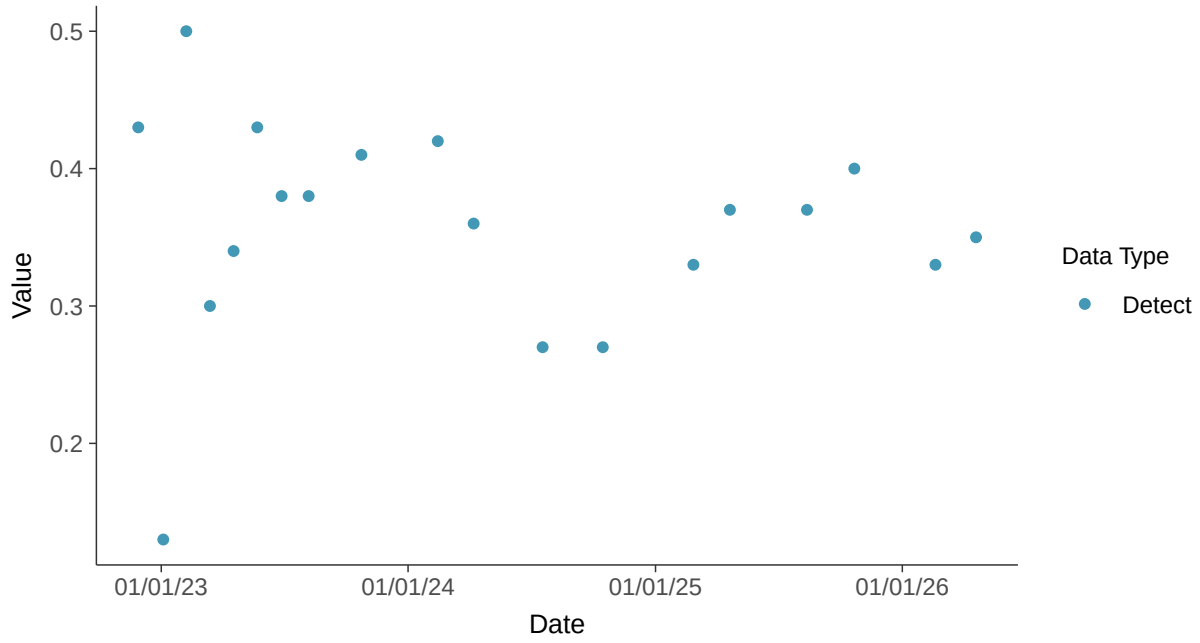


Appendix IV: Barium, MW-03

ID: 13_2_4_103

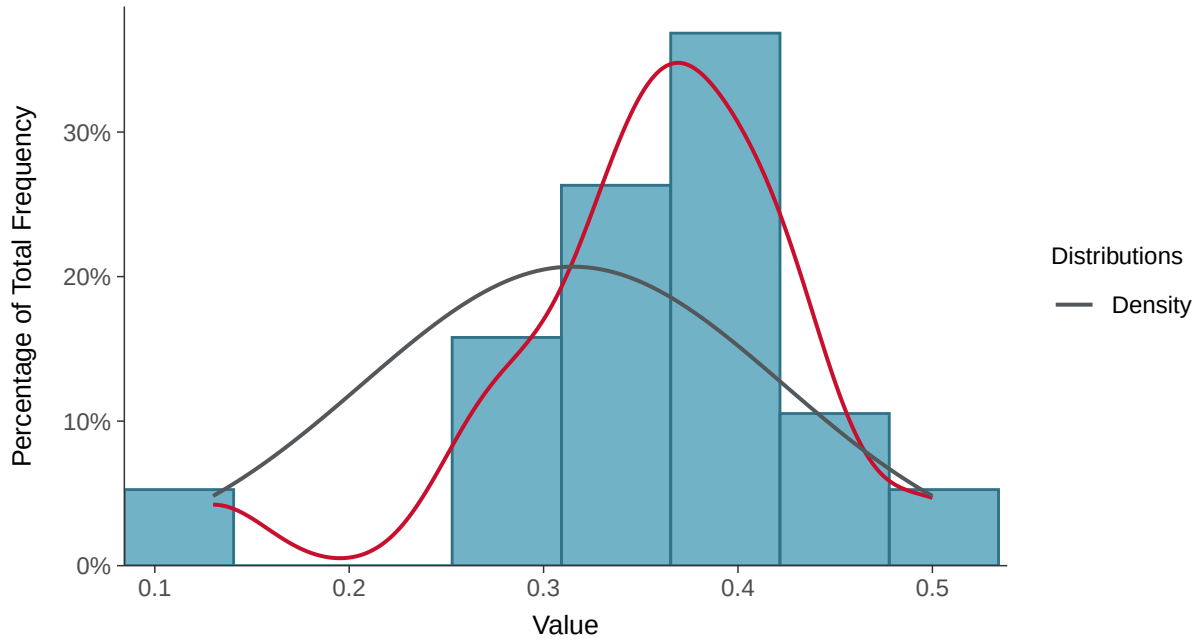
Scatter Plot

Barium, MW-03 (mg/L)



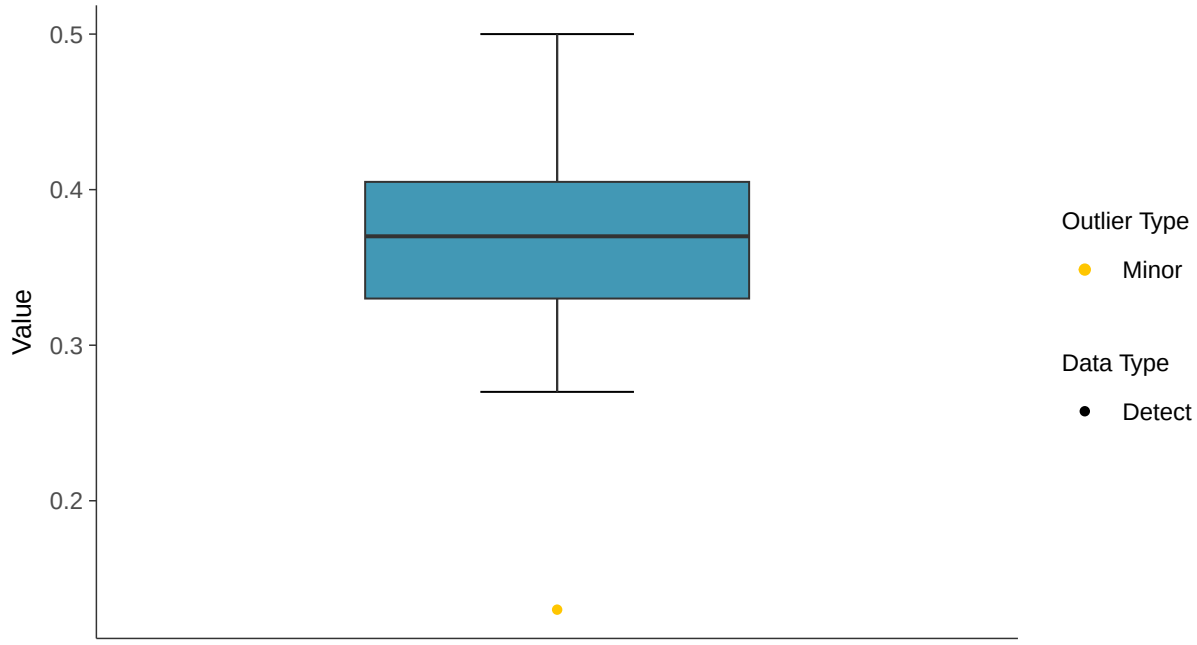
Histogram

Barium, MW-03 (mg/L)



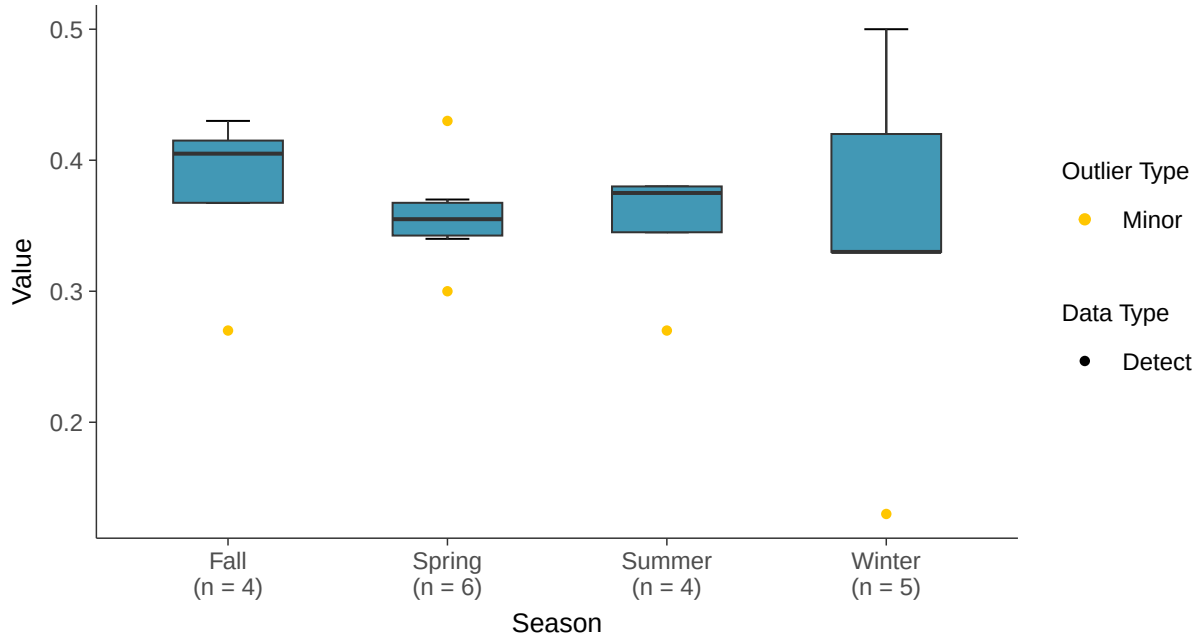
Boxplot

Barium, MW-03 (mg/L)



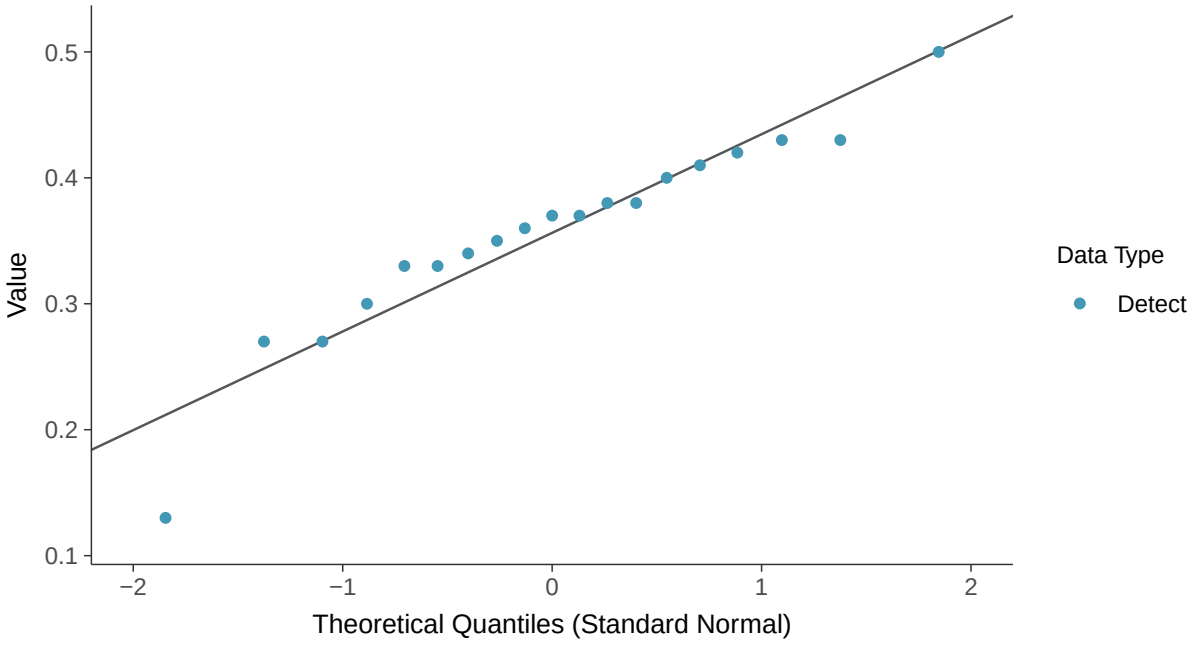
Boxplot by Season

Barium, MW-03 (mg/L)



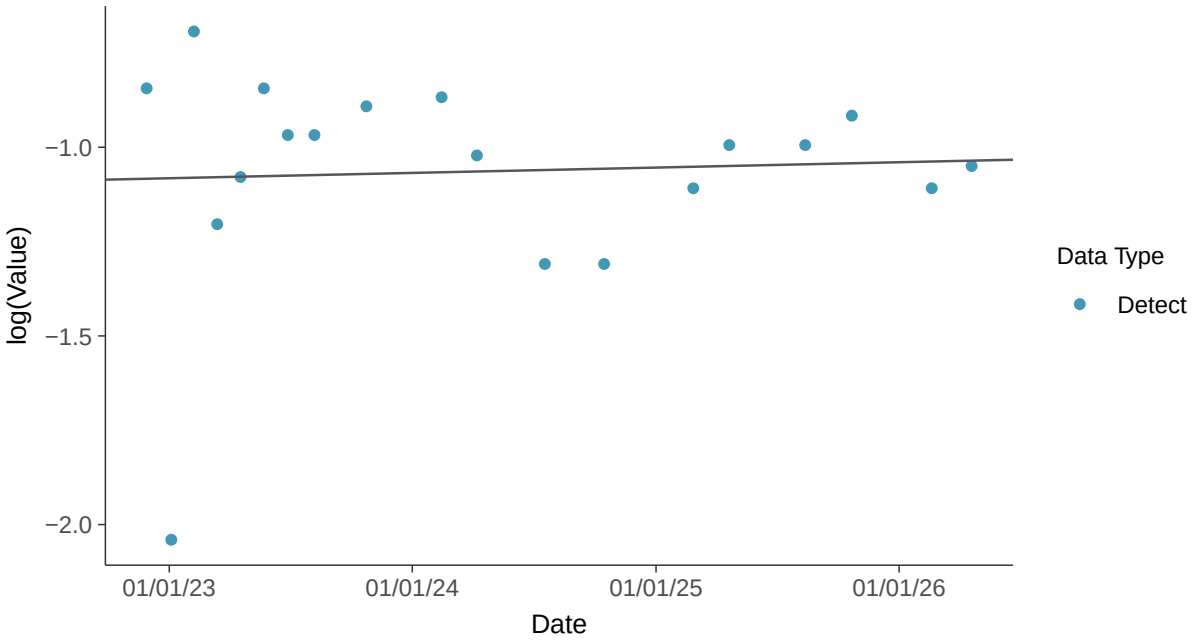
Normal Q-Q plot

Barium, MW-03 (mg/L)



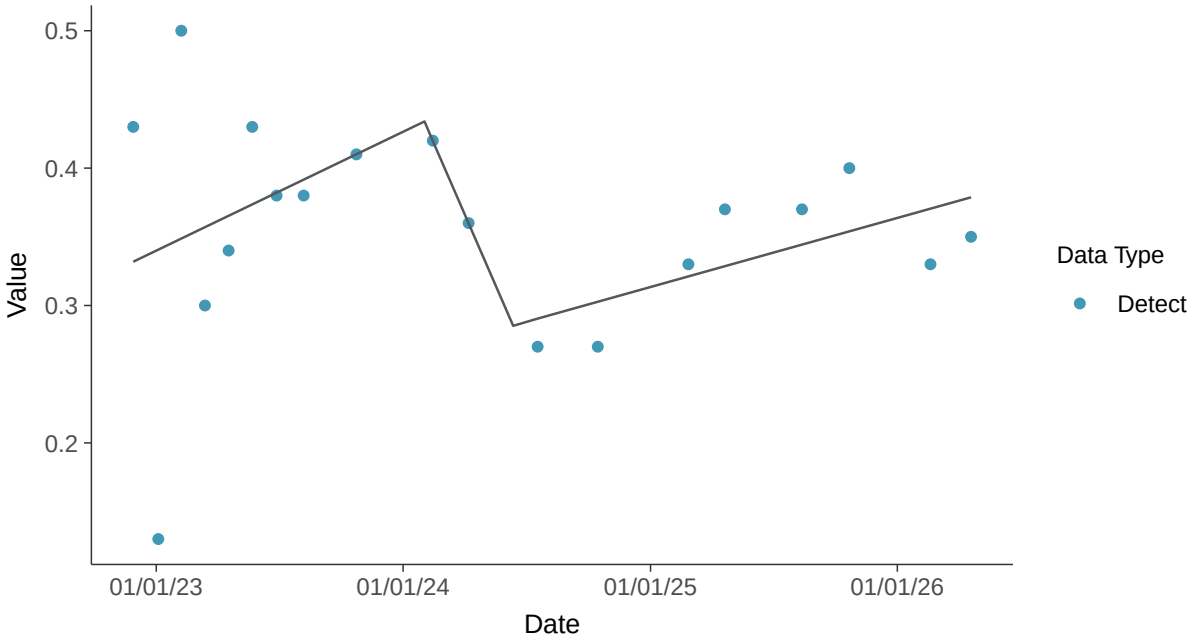
Trend Regression: Lognormal MLE

Barium, MW-03 (mg/L)



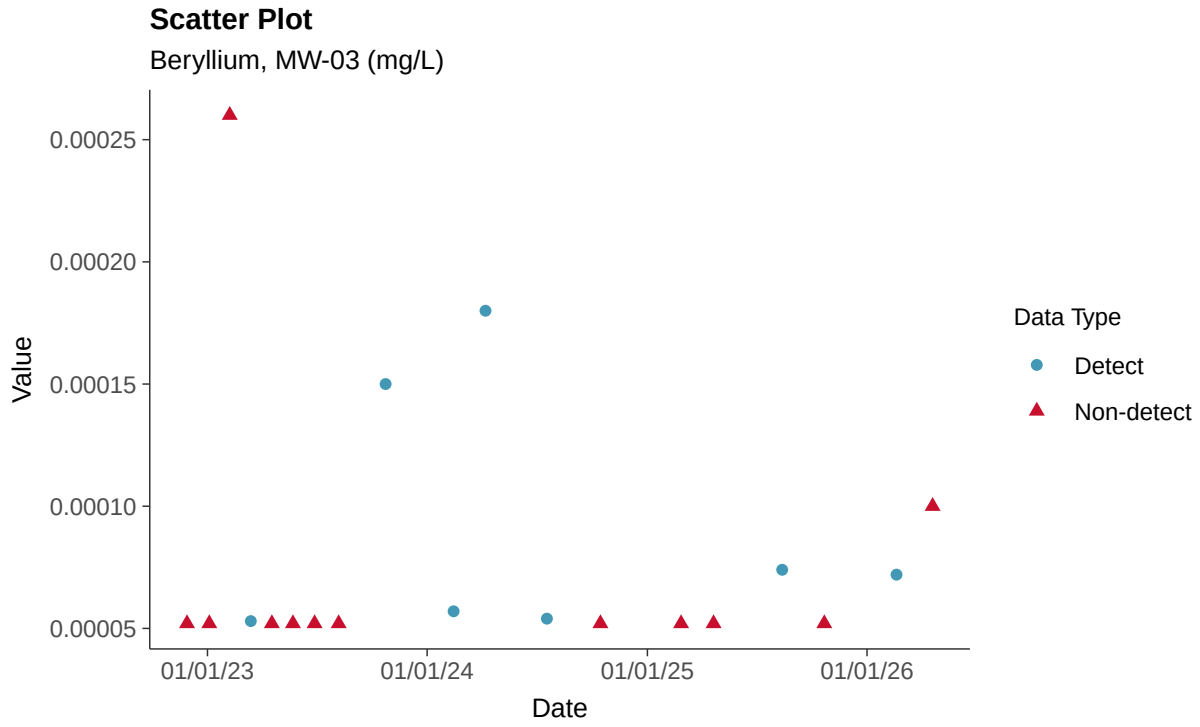
Trend Regression: Piecewise Linear-Linear-Linear

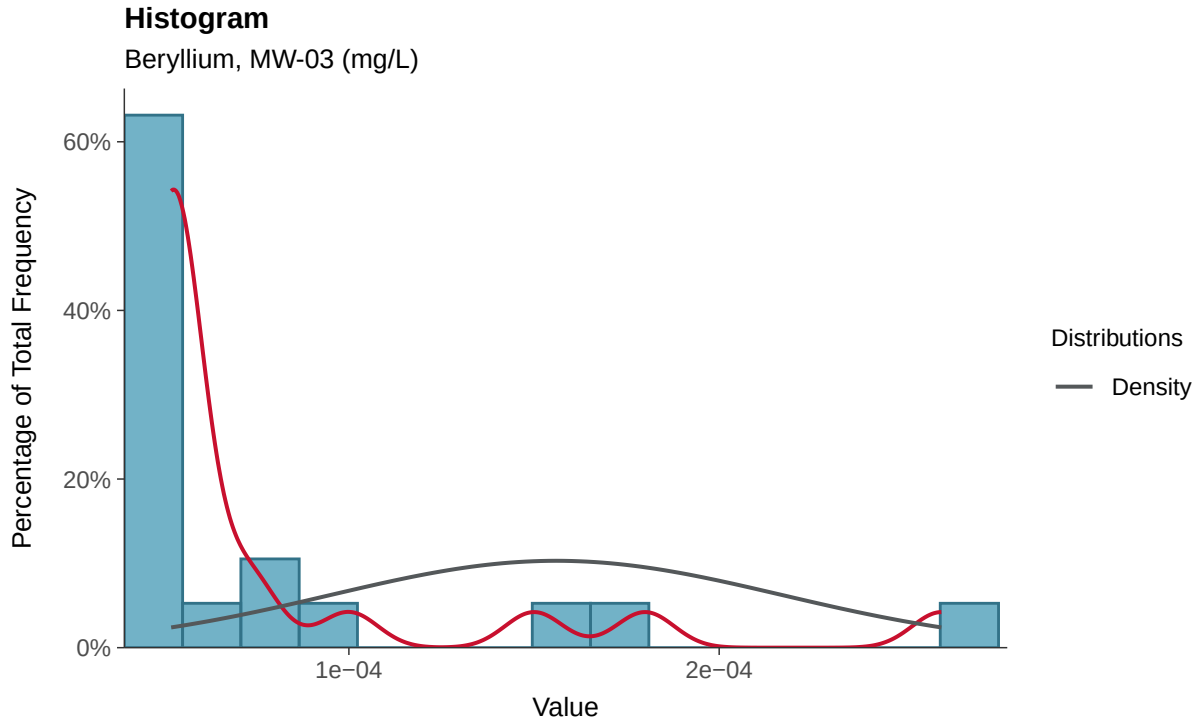
Barium, MW-03 (mg/L)



Appendix IV: Beryllium, MW-03

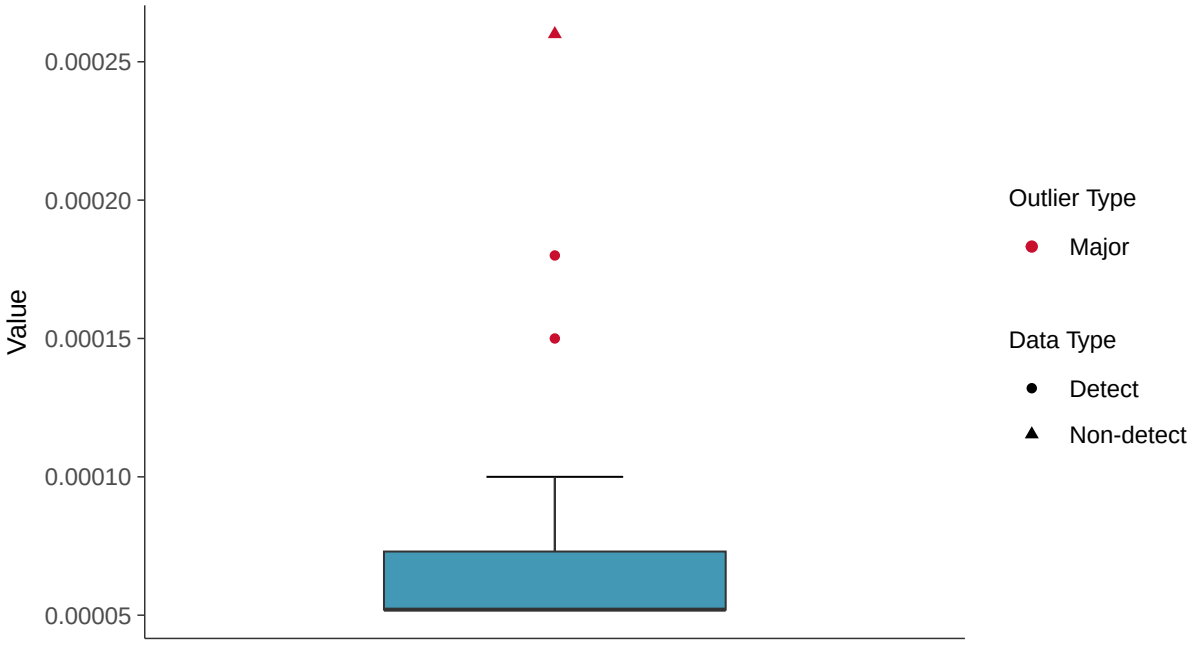
ID: 13_2_4_104





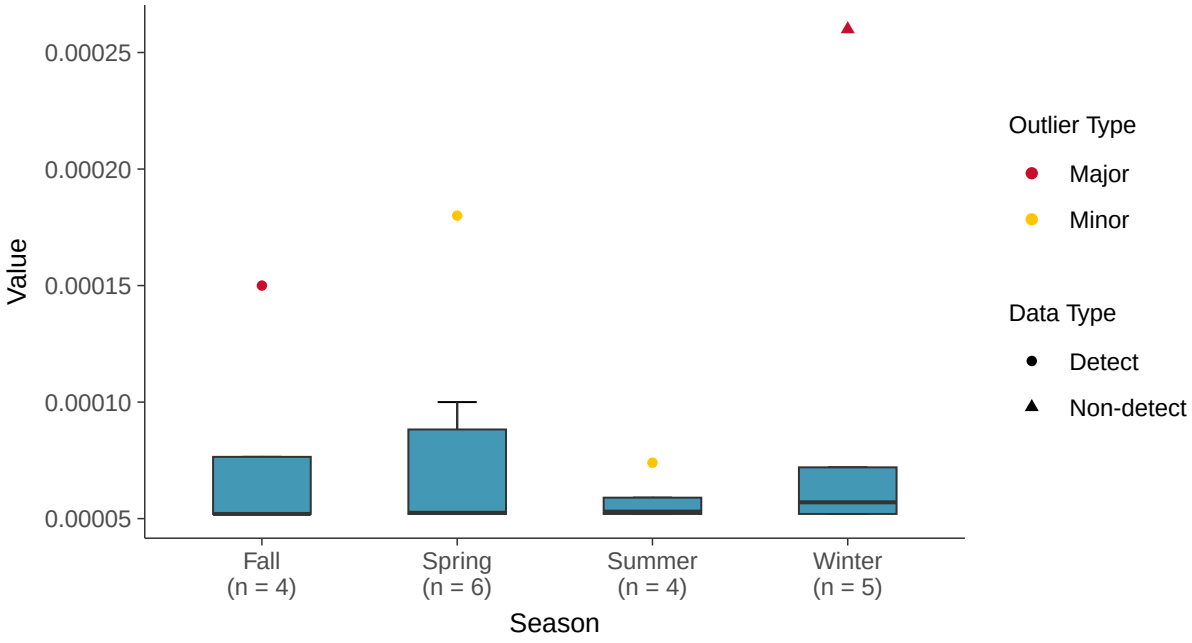
Boxplot

Beryllium, MW-03 (mg/L)



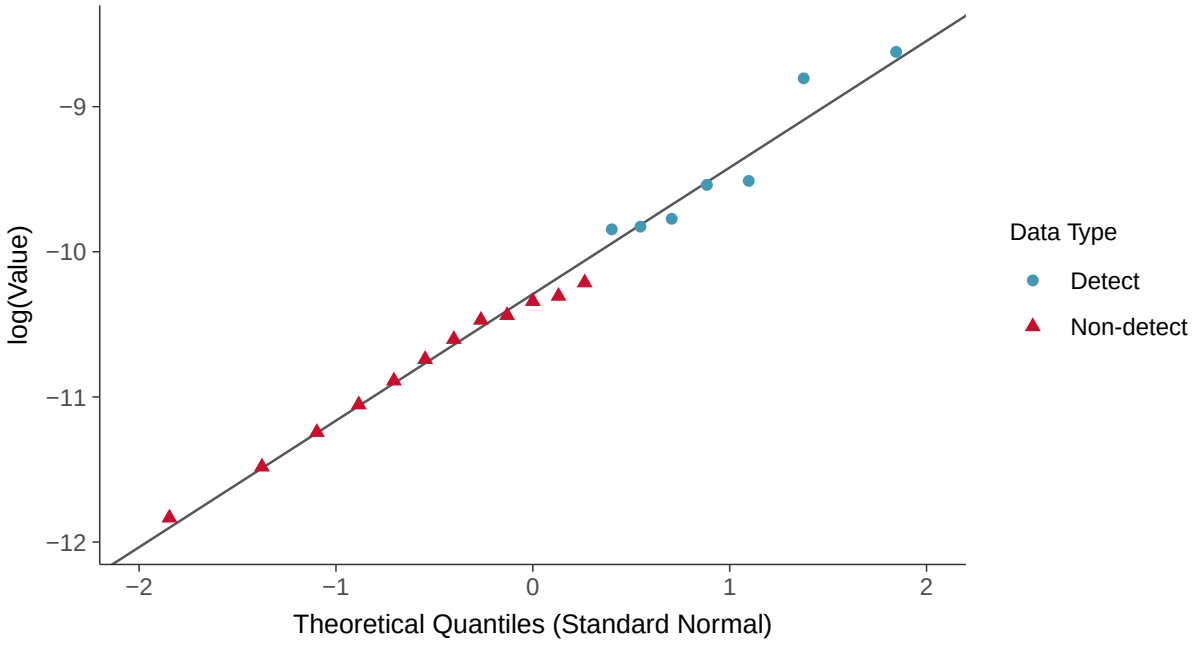
Boxplot by Season

Beryllium, MW-03 (mg/L)



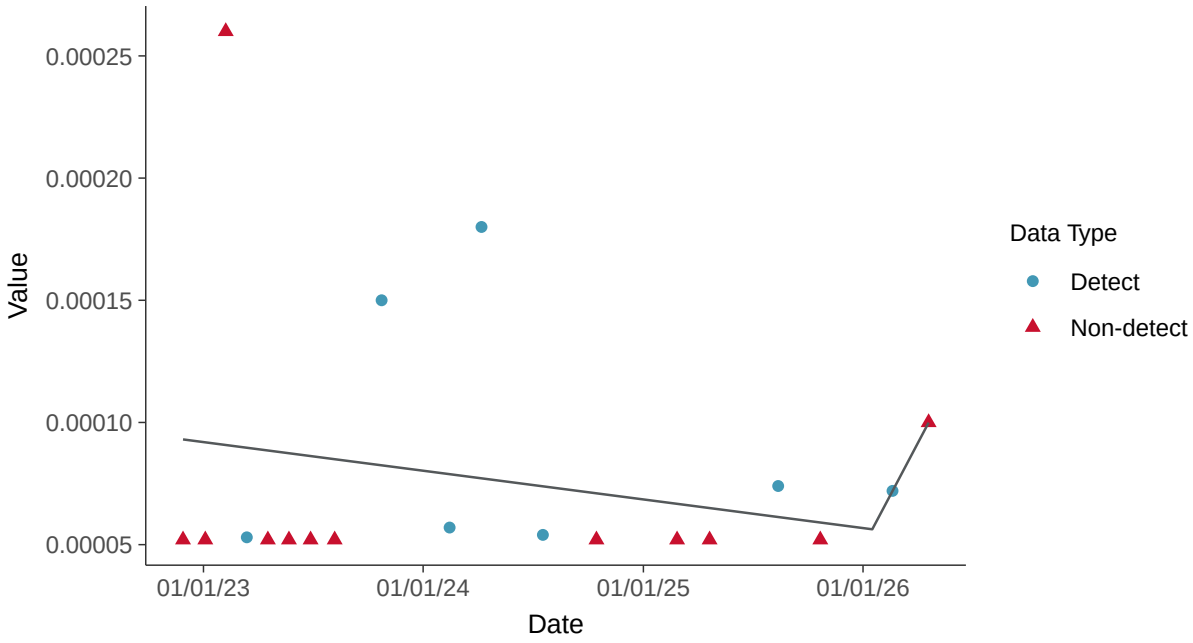
Lognormal Q-Q plot using ROS Imputed Estimates

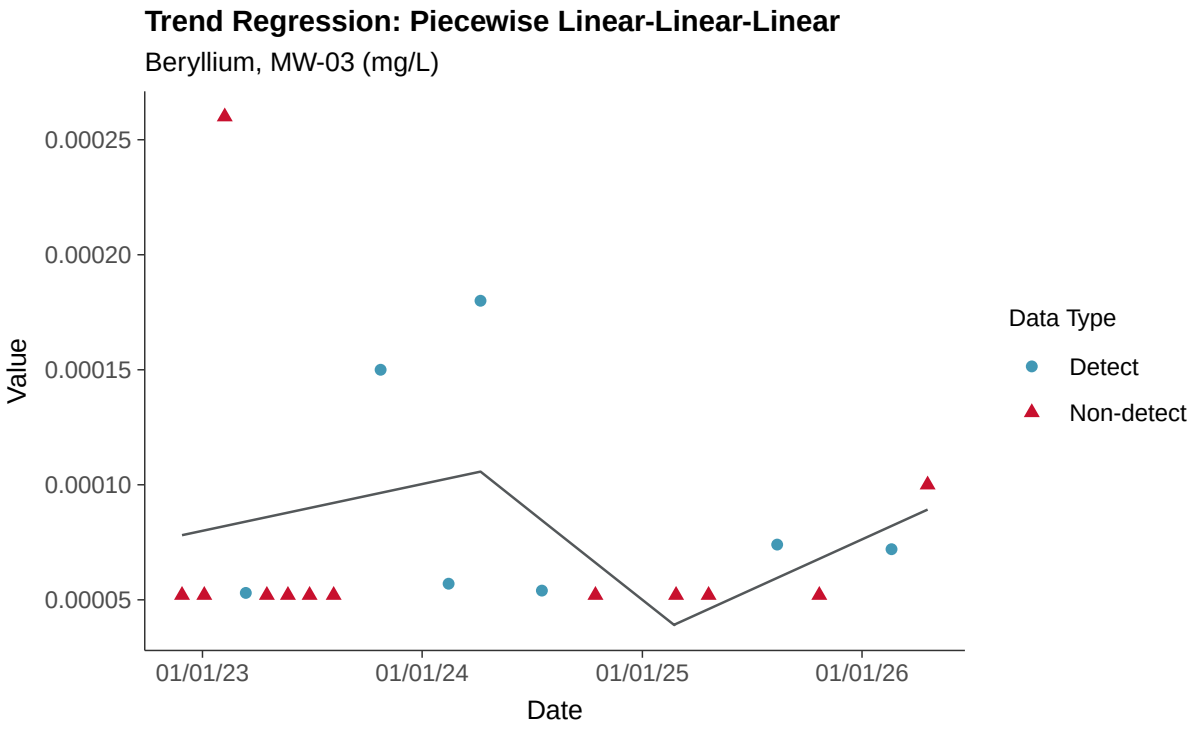
Beryllium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

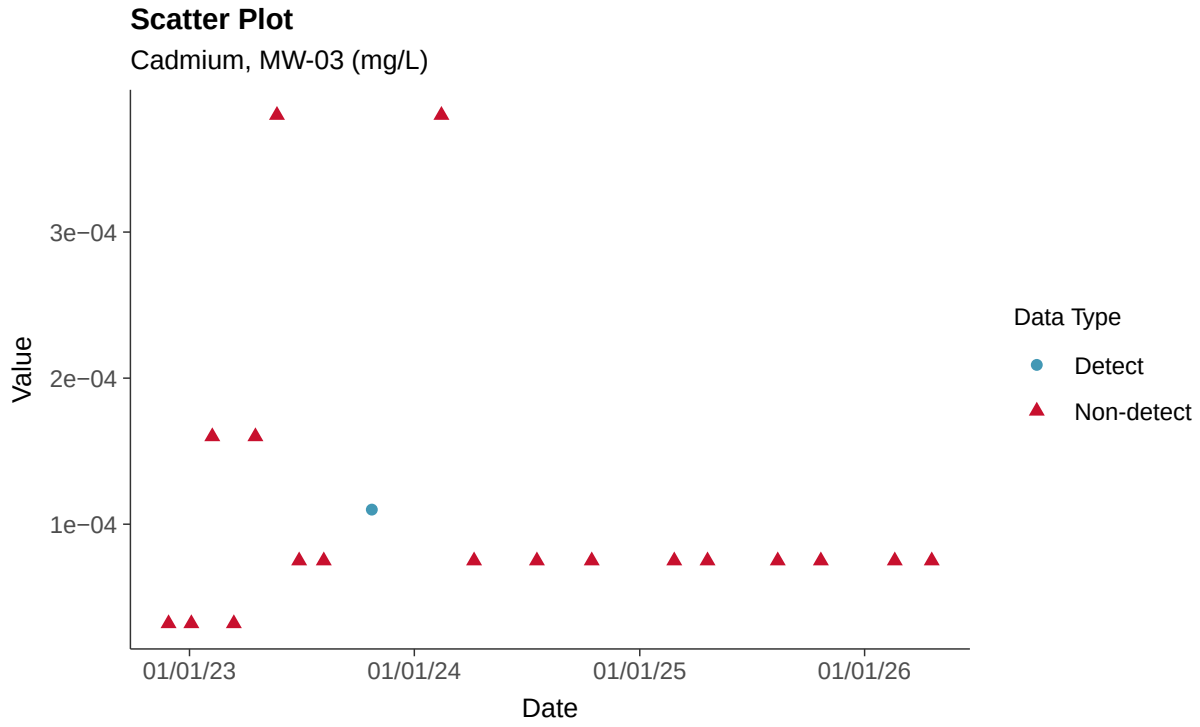
Beryllium, MW-03 (mg/L)

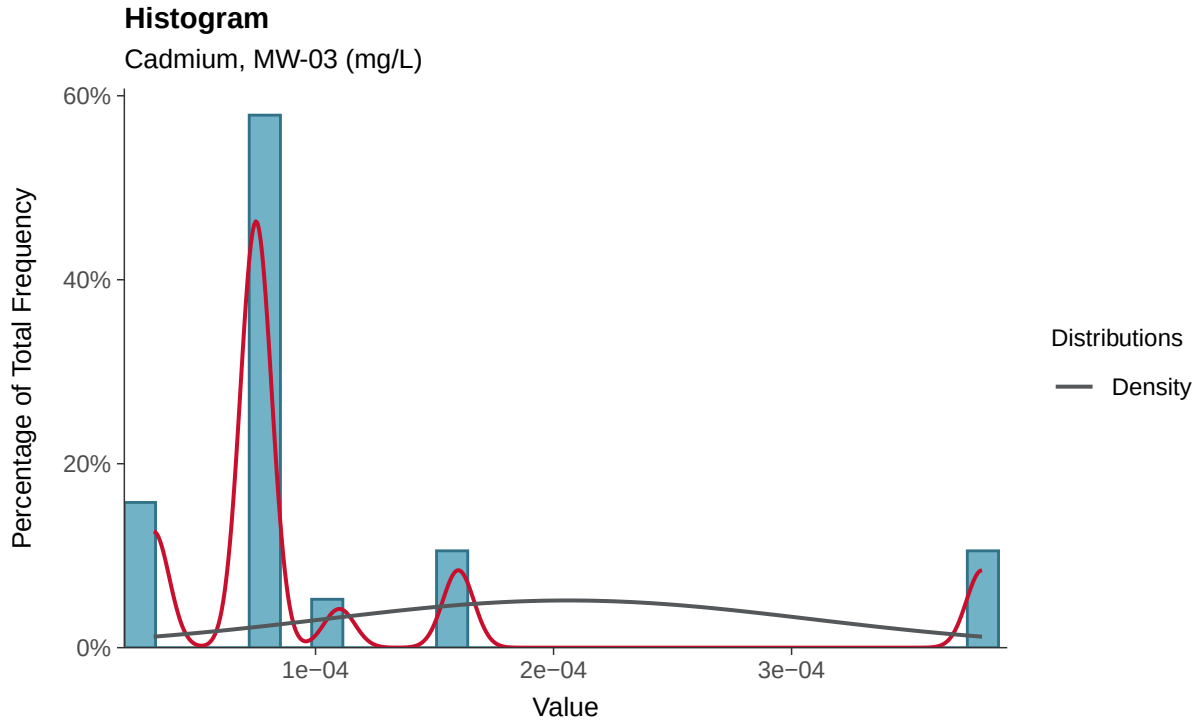



Trend Regression: Piecewise Linear-Linear-Linear
Beryllium, MW-03 (mg/L)
Value
0.00025
0.00020
0.00015
0.00010
0.00005
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Cadmium, MW-03

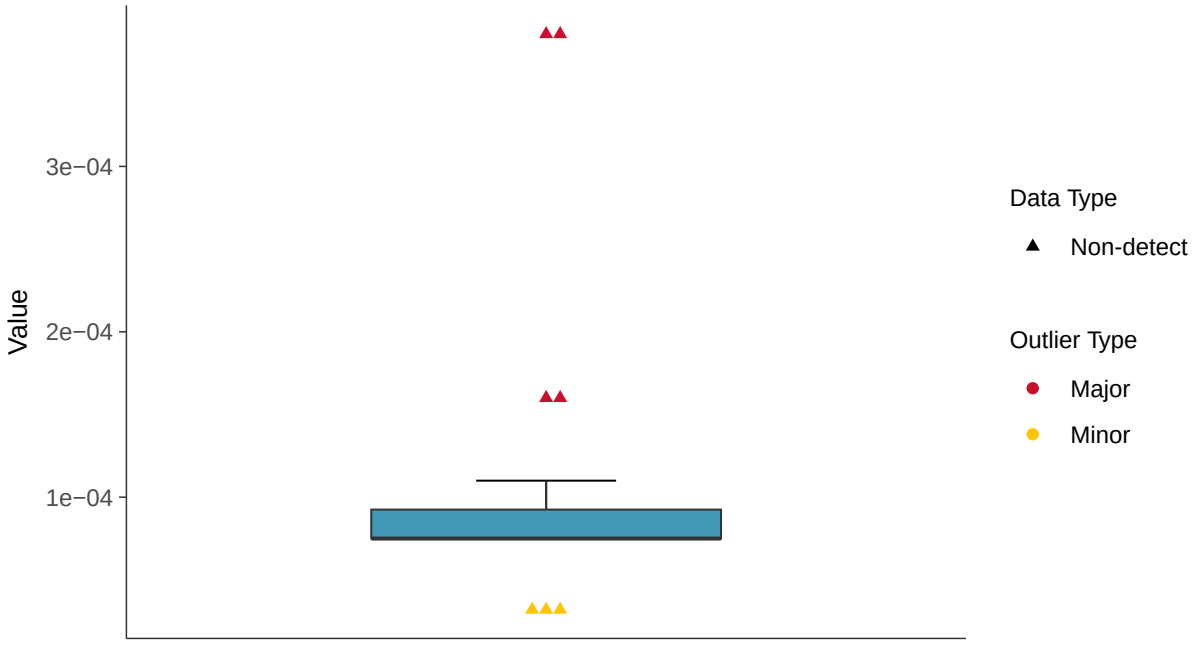
ID: 13_2_4_106





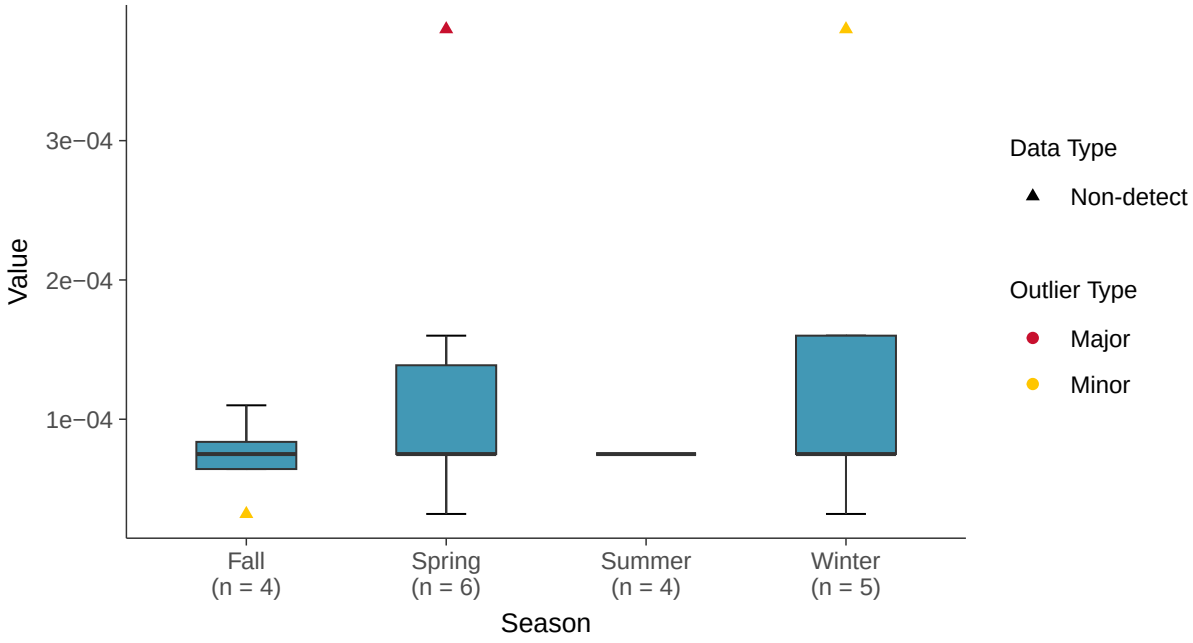
Boxplot

Cadmium, MW-03 (mg/L)



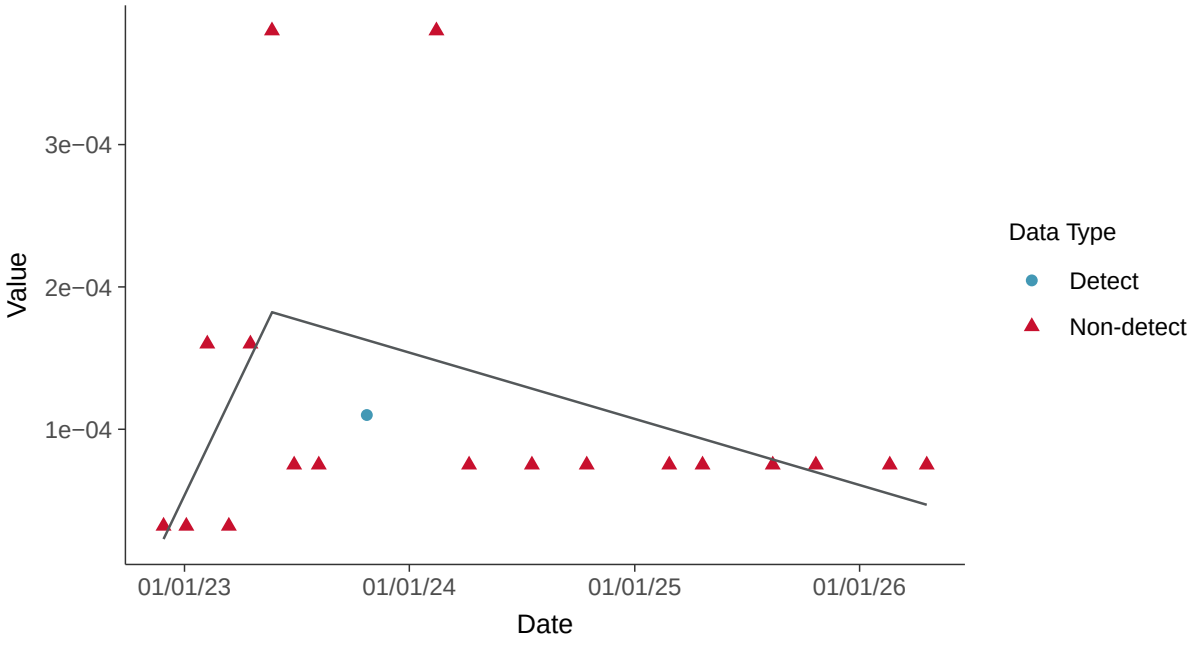
Boxplot by Season

Cadmium, MW-03 (mg/L)



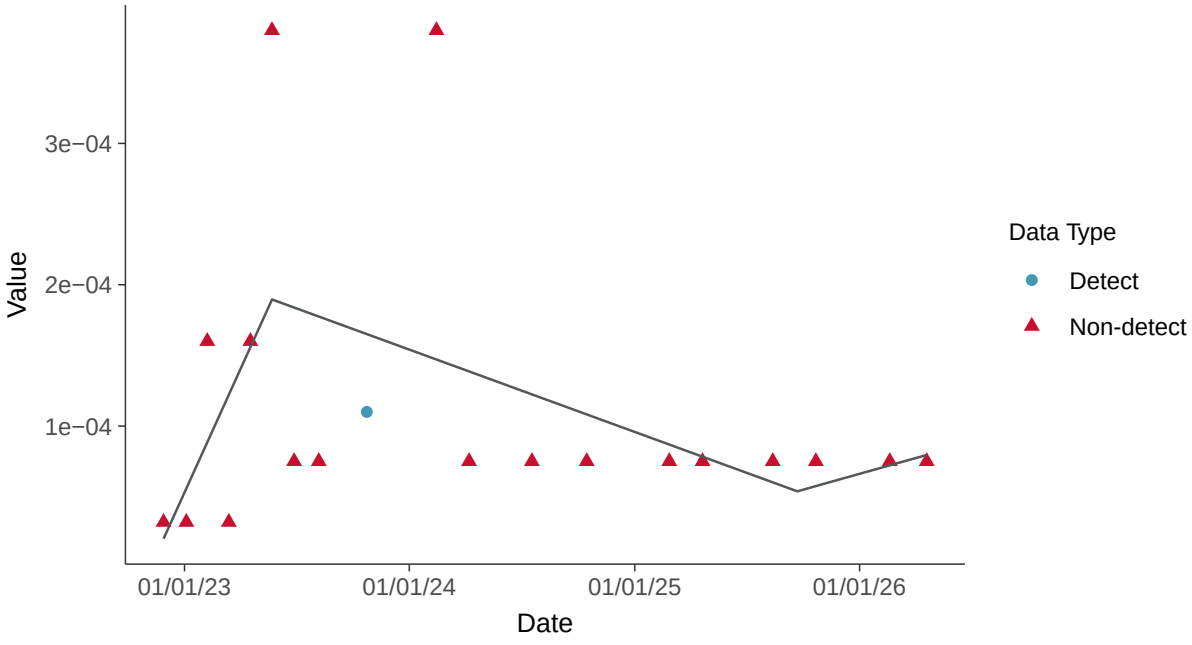
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-03 (mg/L)

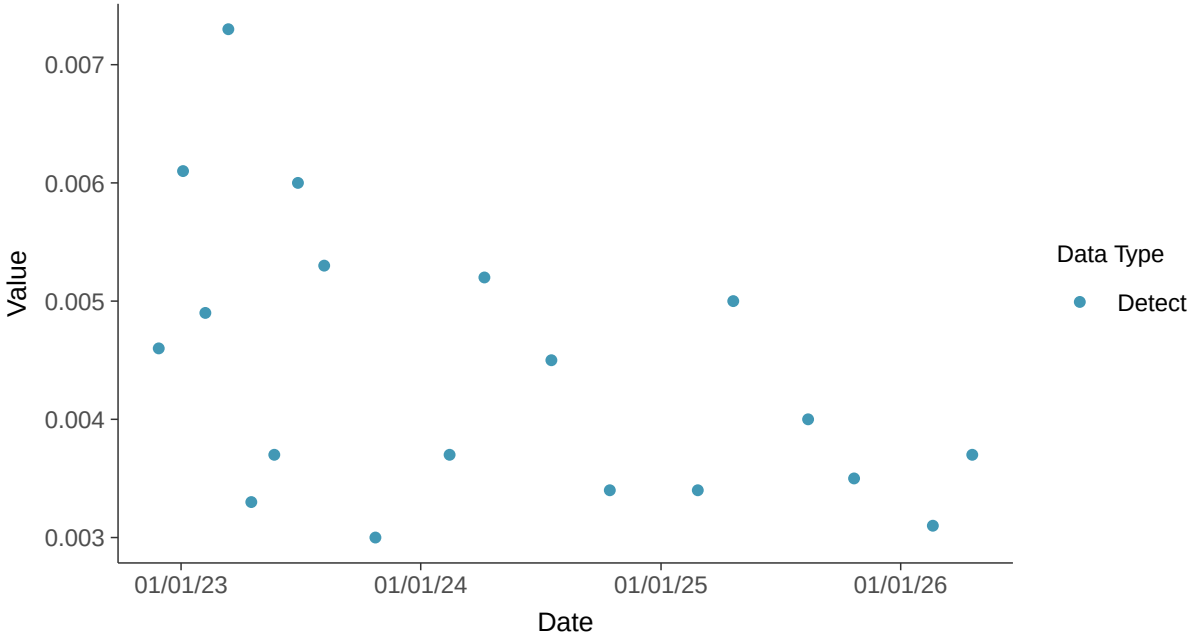


Appendix IV: Chromium, Total, MW-03

ID: 13_2_4_109

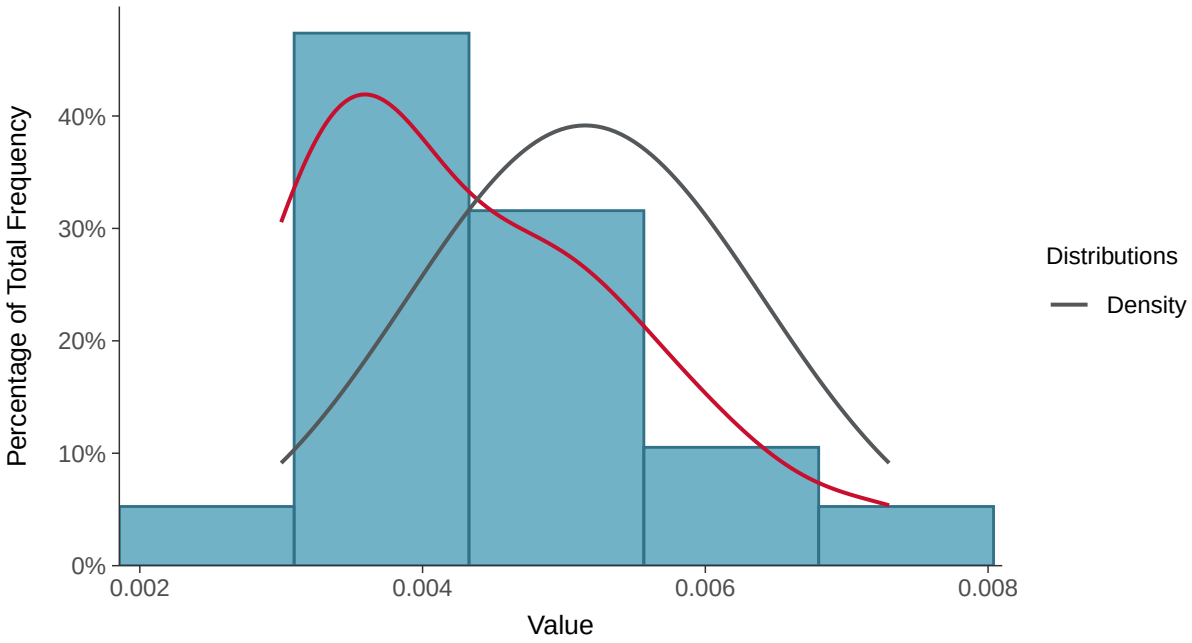
Scatter Plot

Chromium, Total, MW-03 (mg/L)



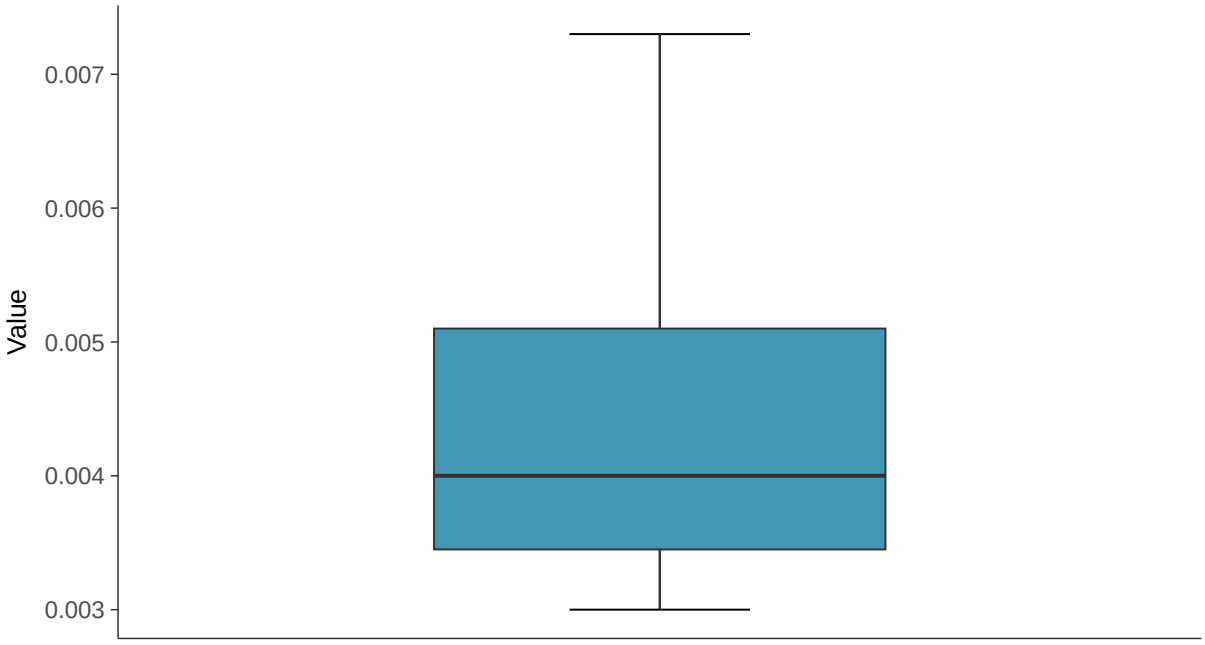
Histogram

Chromium, Total, MW-03 (mg/L)



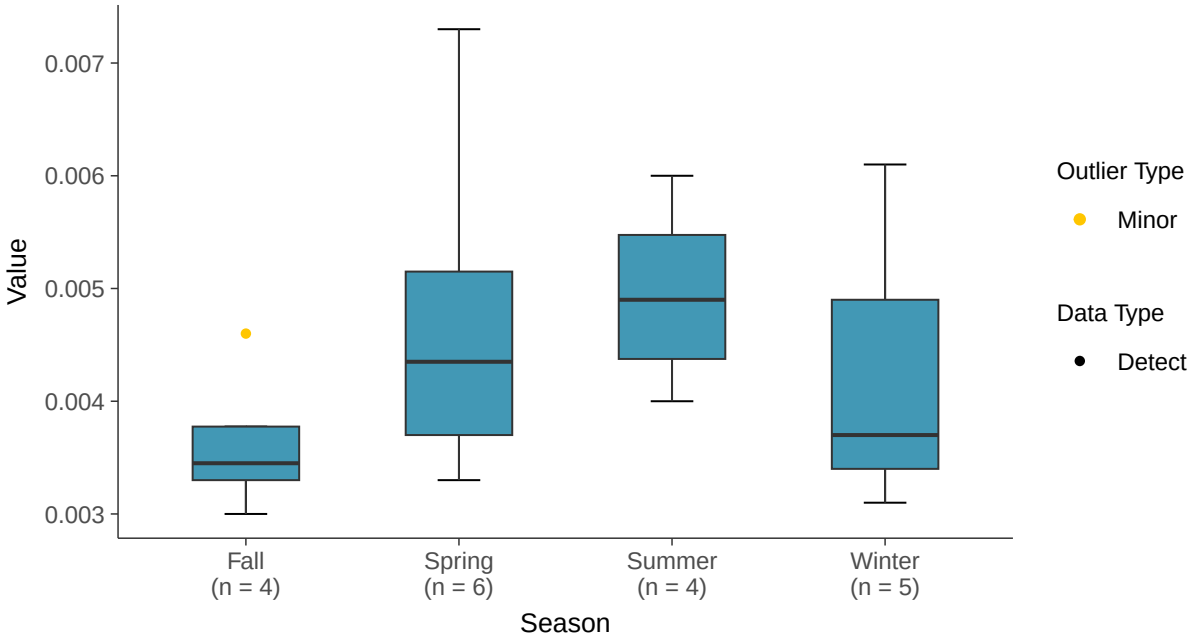
Boxplot

Chromium, Total, MW-03 (mg/L)



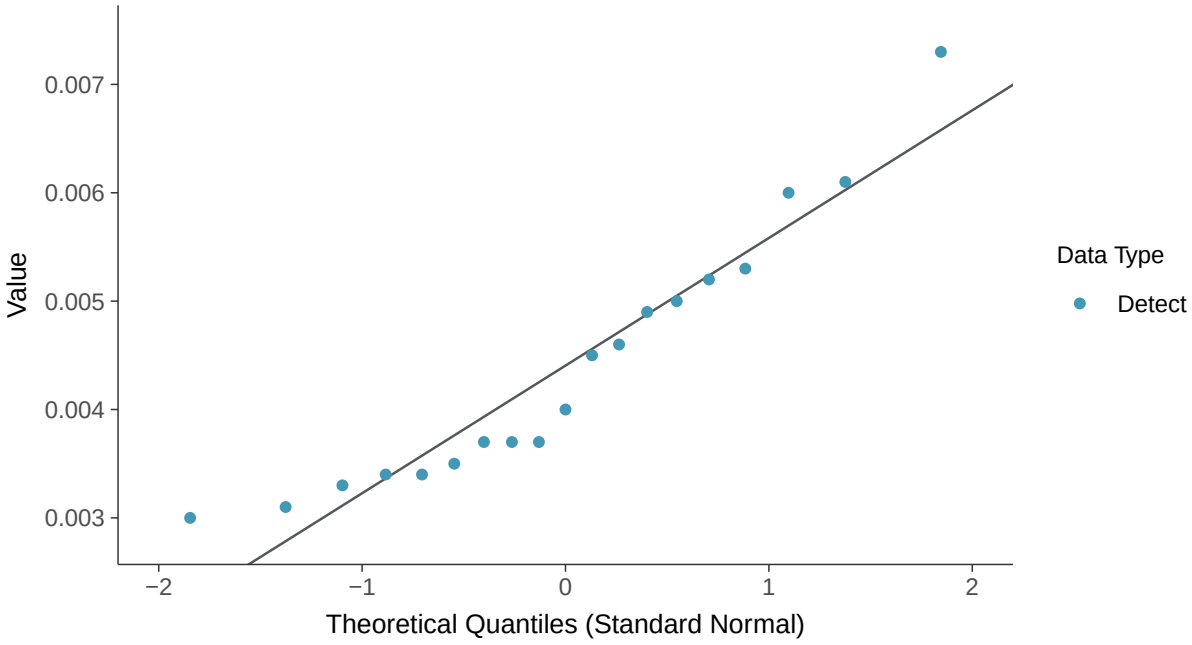
Boxplot by Season

Chromium, Total, MW-03 (mg/L)



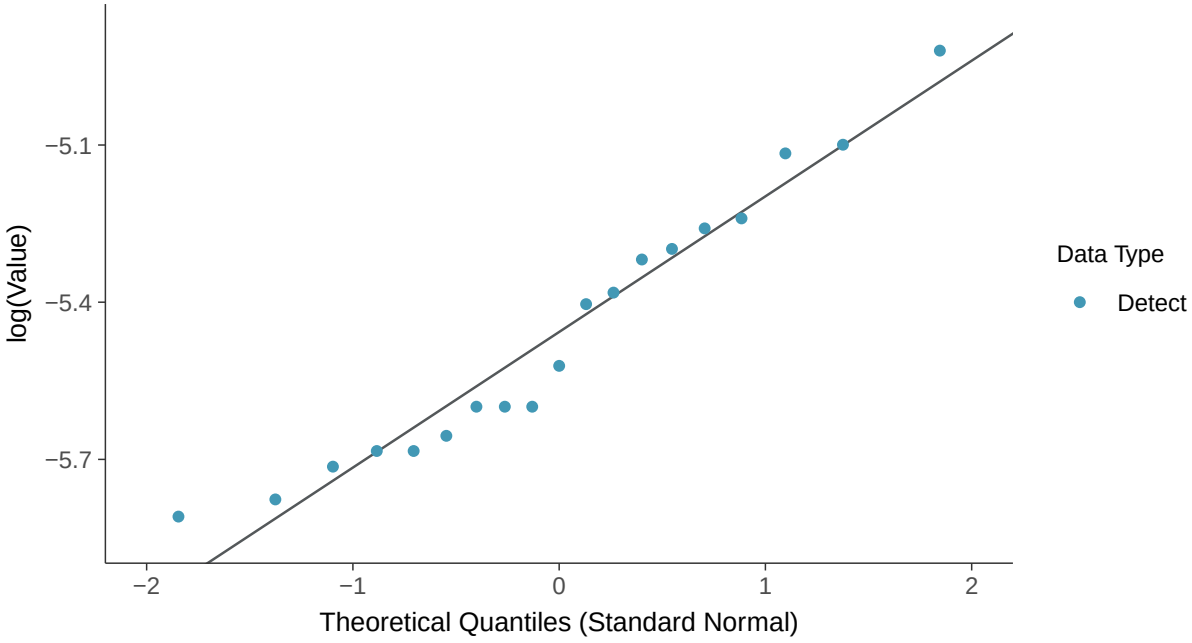
Normal Q-Q plot

Chromium, Total, MW-03 (mg/L)



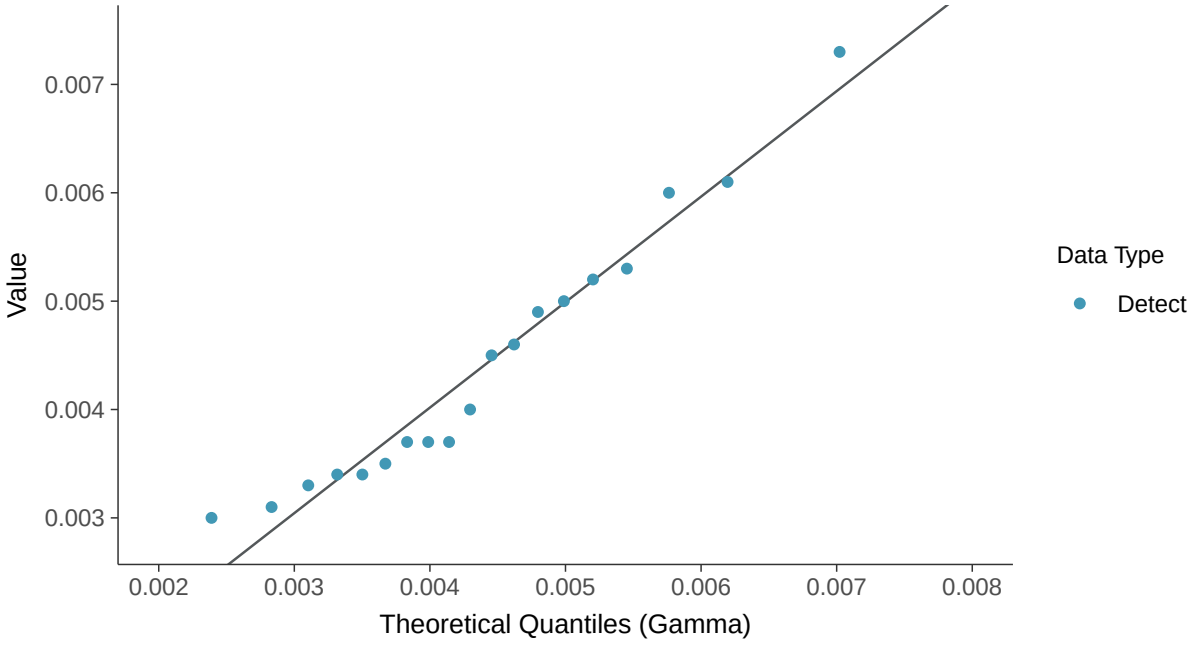
Lognormal Q-Q plot

Chromium, Total, MW-03 (mg/L)



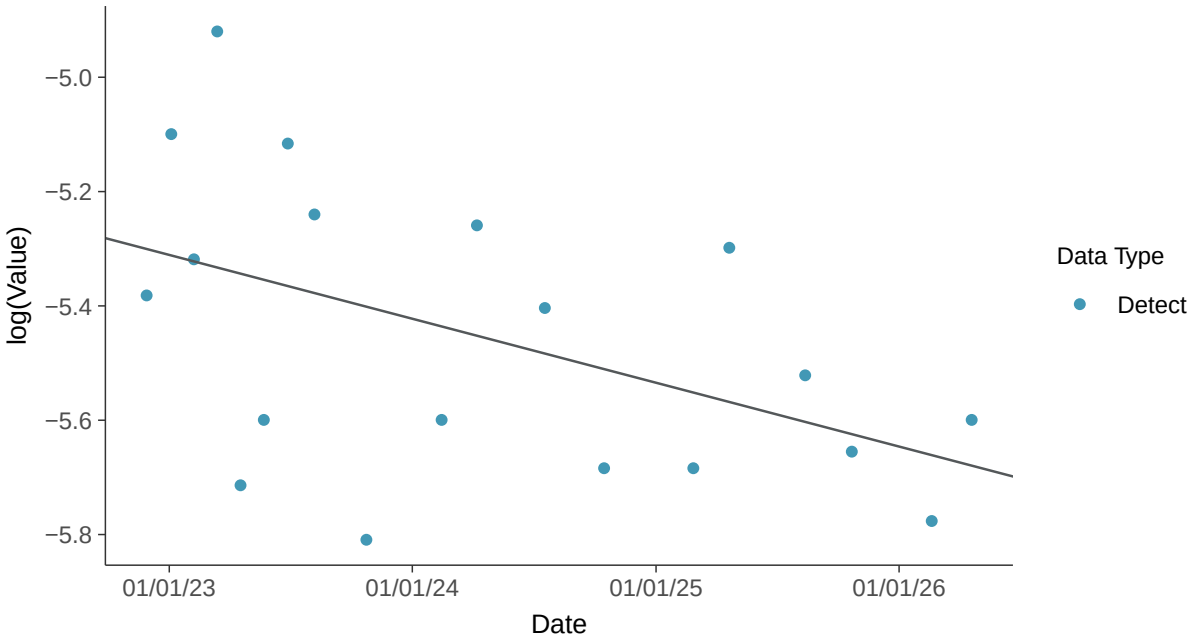
Gamma Q-Q plot

Chromium, Total, MW-03 (mg/L)



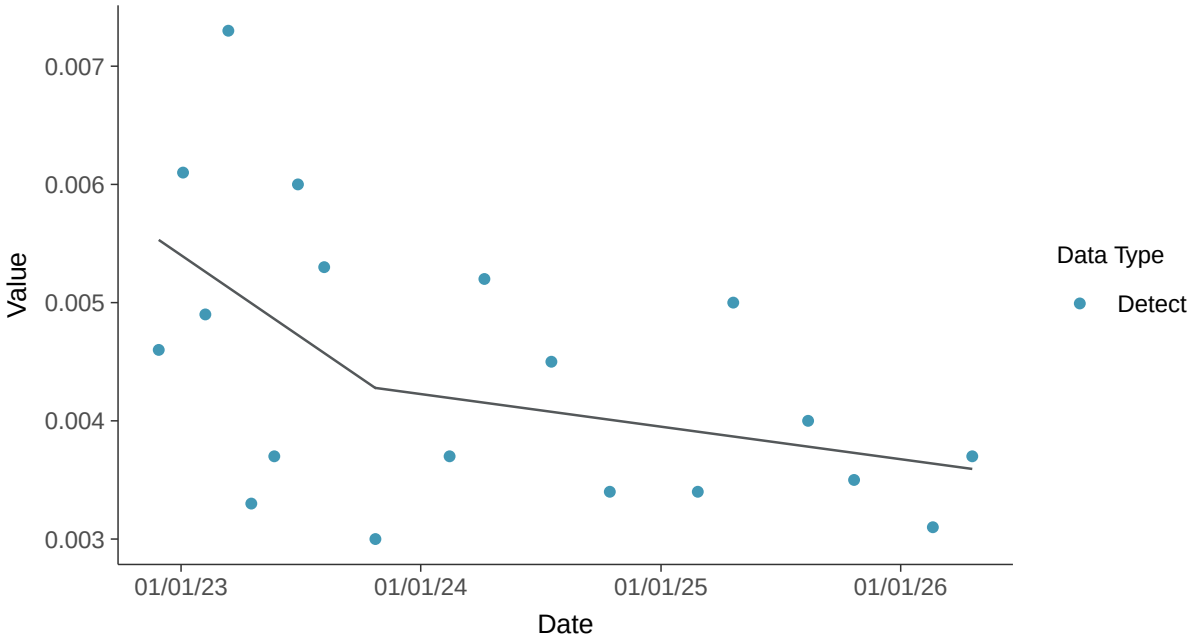
Trend Regression: Lognormal MLE

Chromium, Total, MW-03 (mg/L)



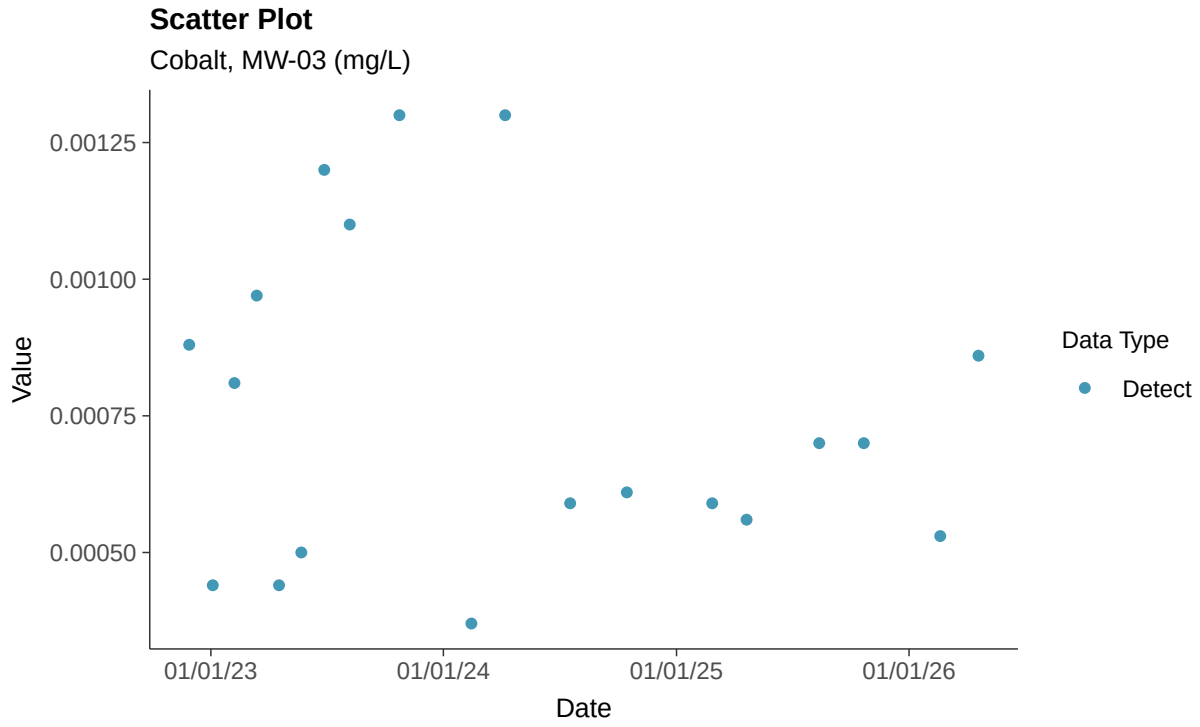
Trend Regression: Piecewise Linear-Linear

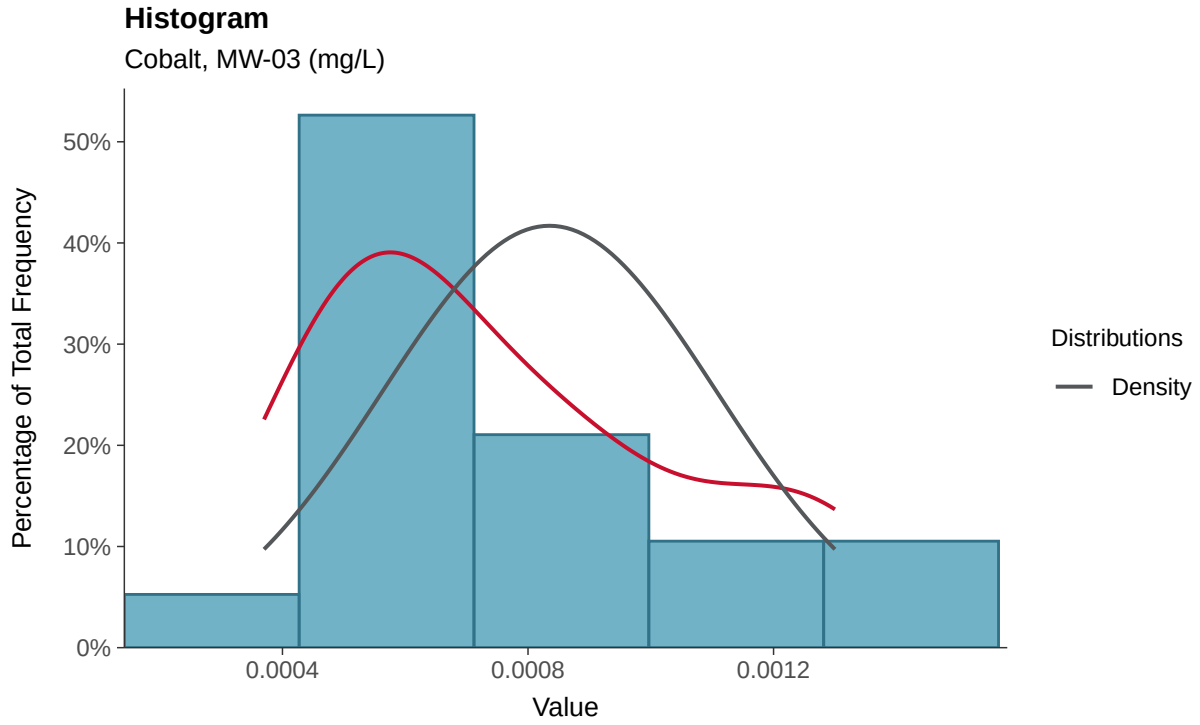
Chromium, Total, MW-03 (mg/L)



Appendix IV: Cobalt, MW-03

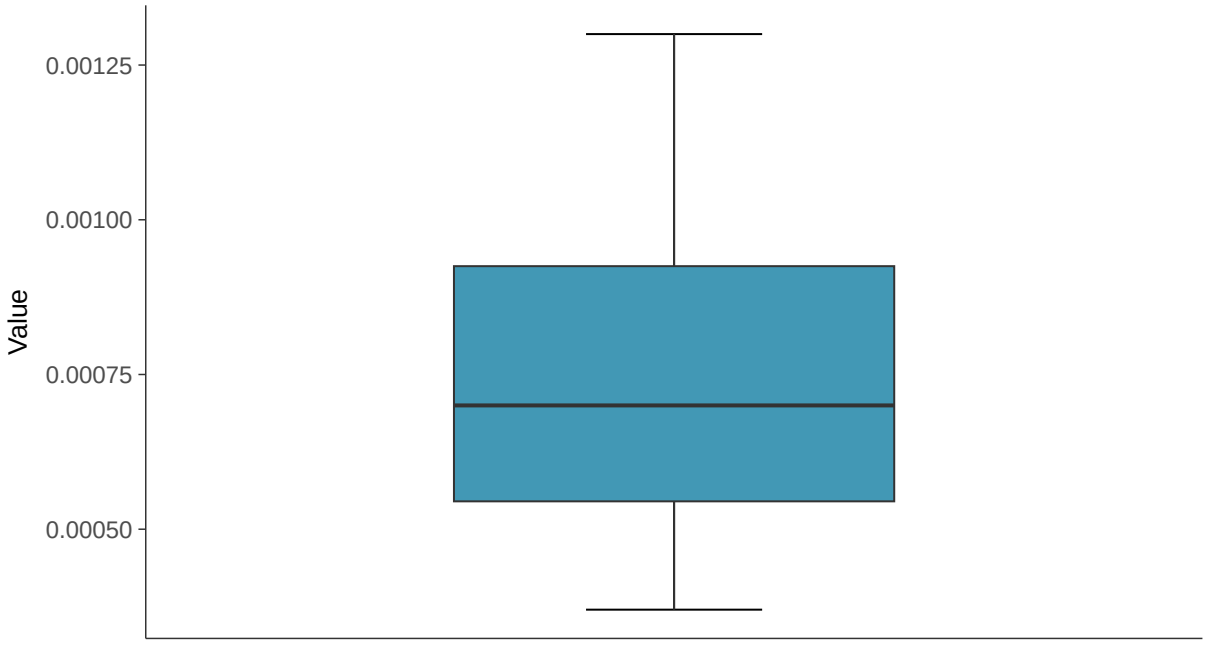
ID: 13_2_4_110





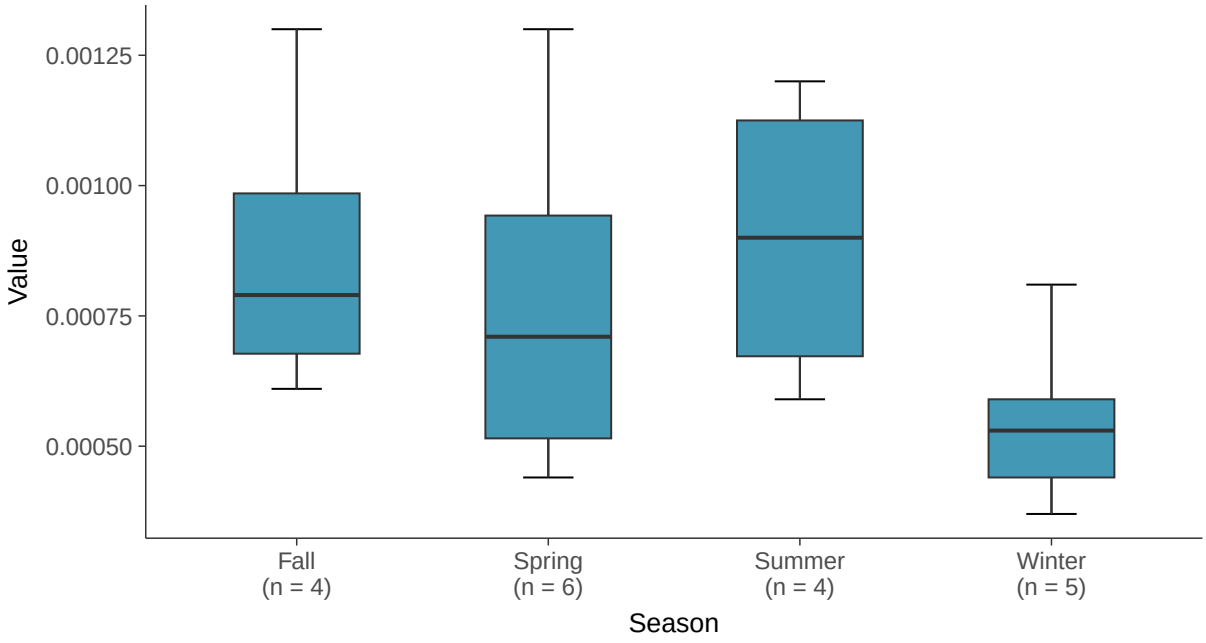
Boxplot

Cobalt, MW-03 (mg/L)



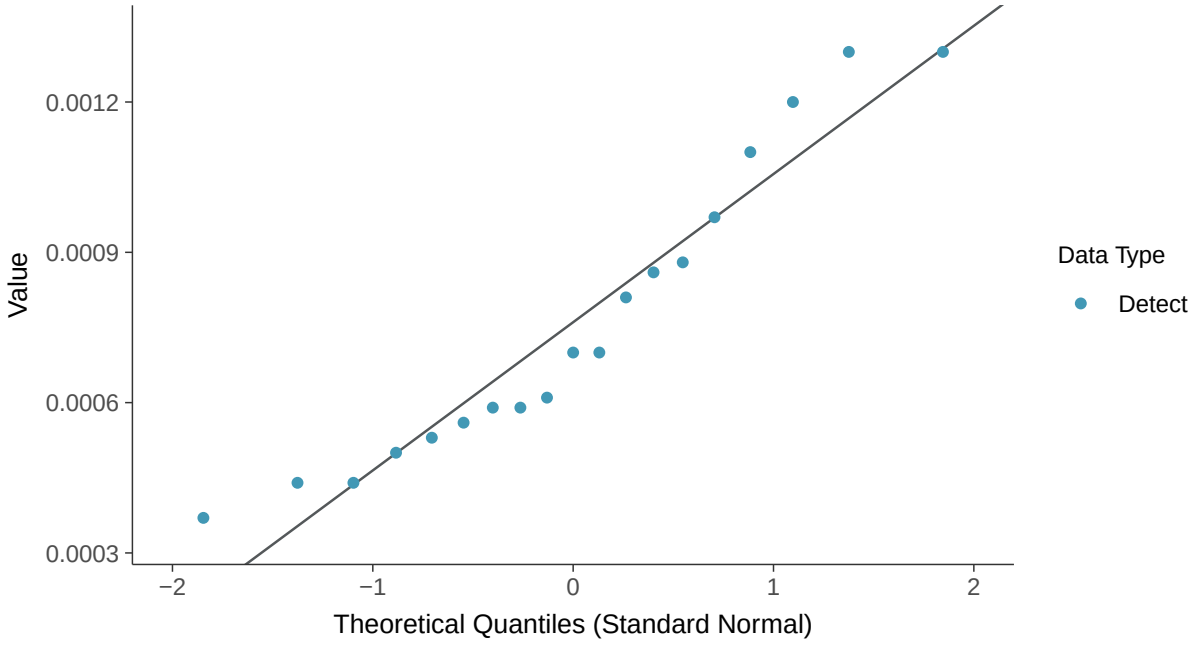
Boxplot by Season

Cobalt, MW-03 (mg/L)



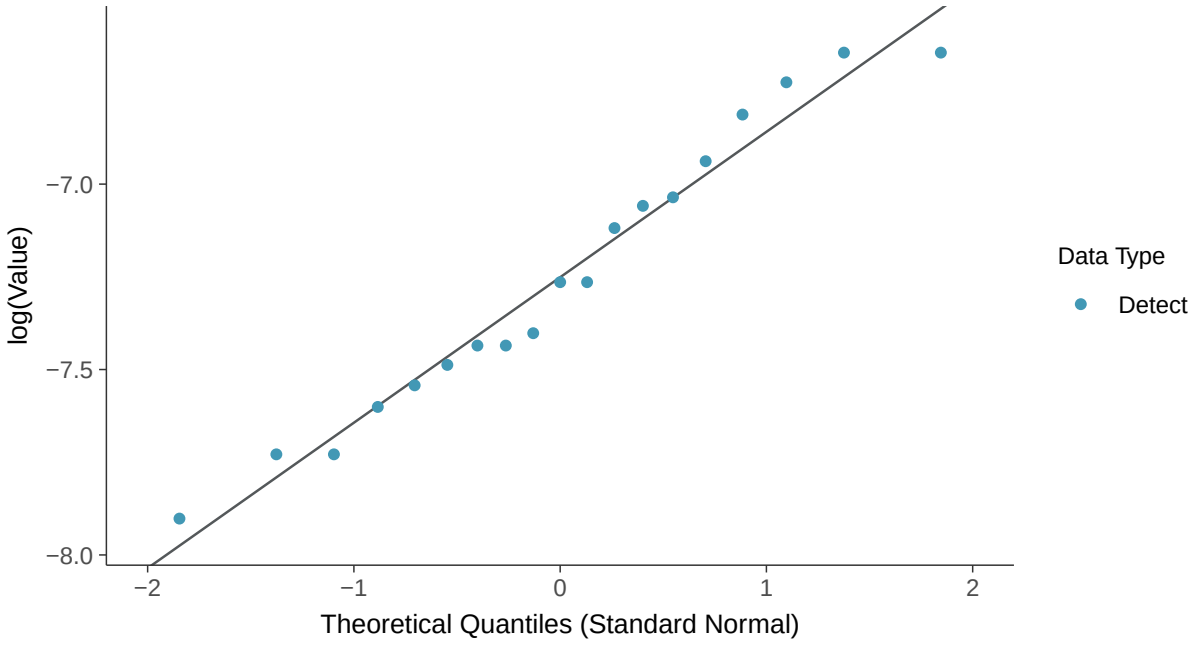
Normal Q-Q plot

Cobalt, MW-03 (mg/L)



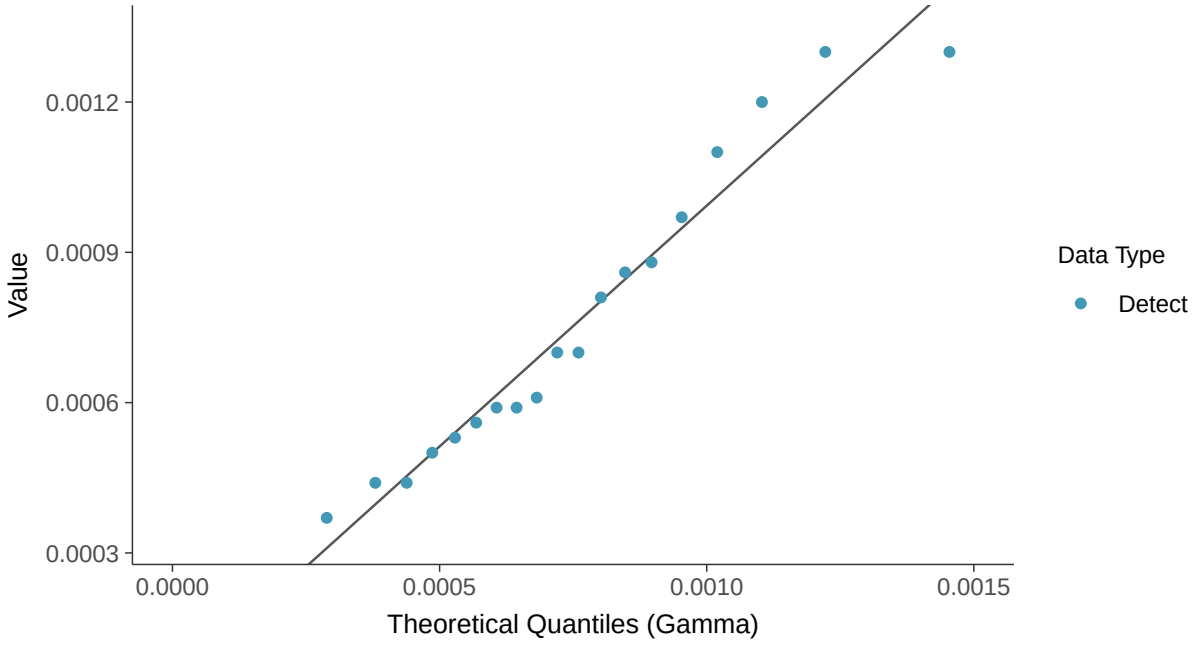
Lognormal Q-Q plot

Cobalt, MW-03 (mg/L)



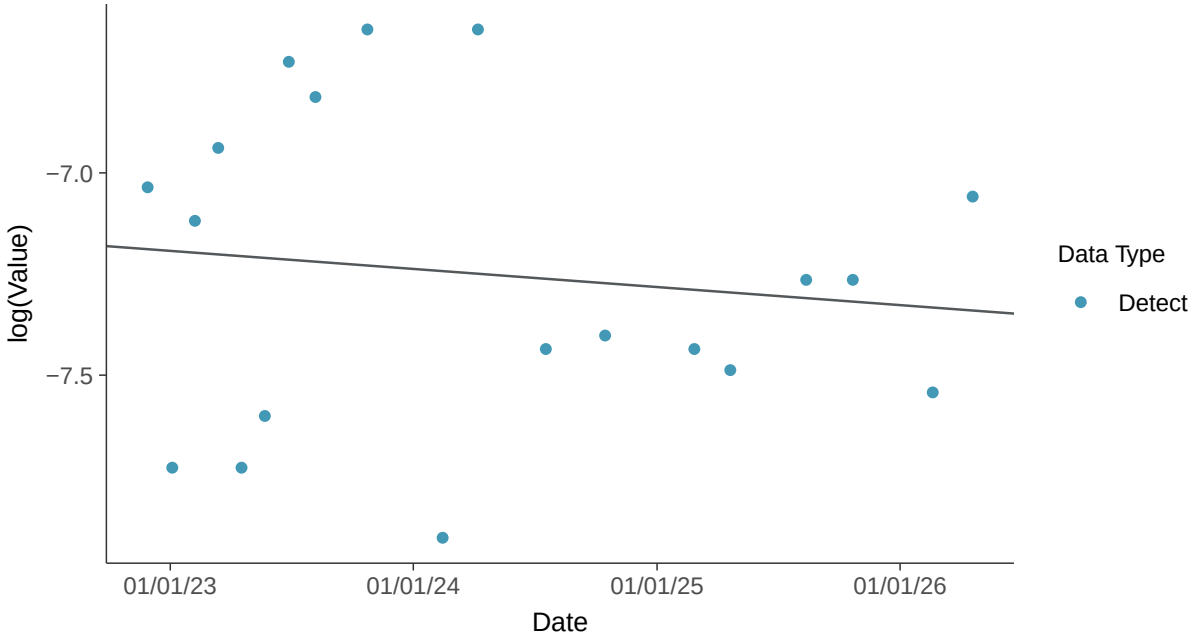
Gamma Q-Q plot

Cobalt, MW-03 (mg/L)



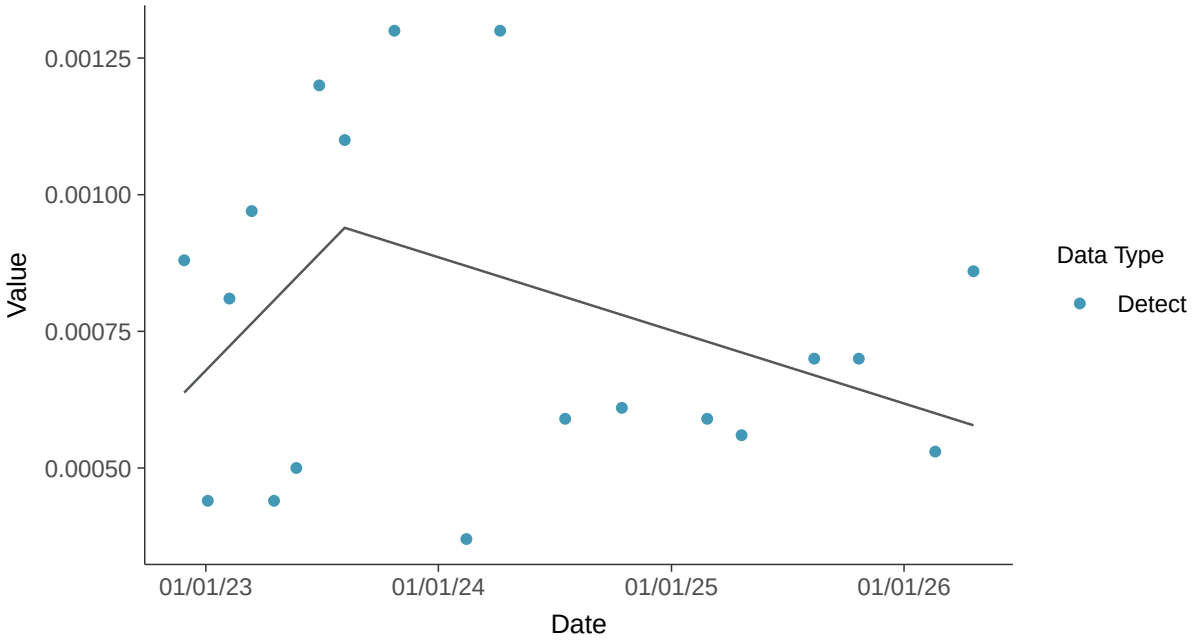
Trend Regression: Lognormal MLE

Cobalt, MW-03 (mg/L)



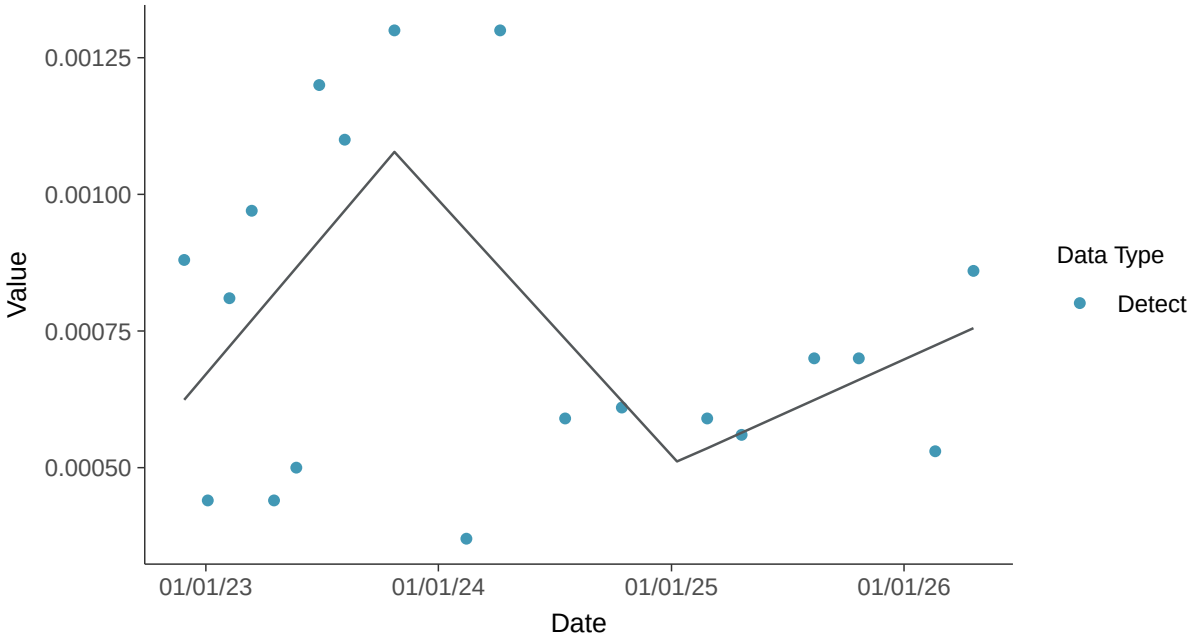
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-03 (mg/L)

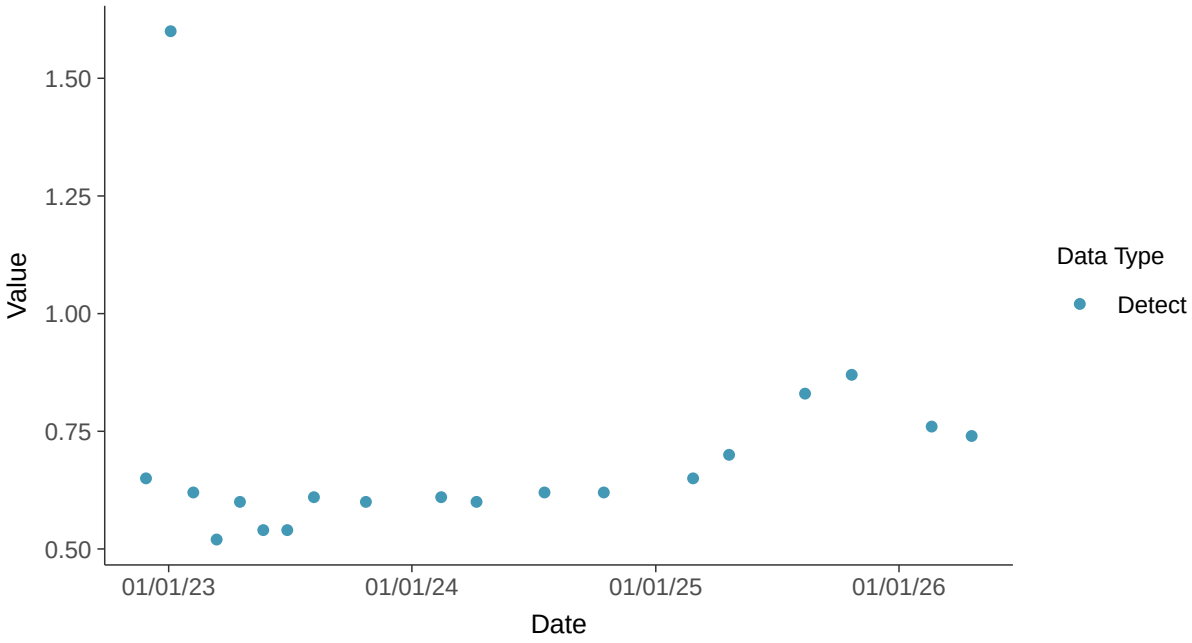


Appendix IV: Fluoride (App IV), MW-03

ID: 13_2_4_113

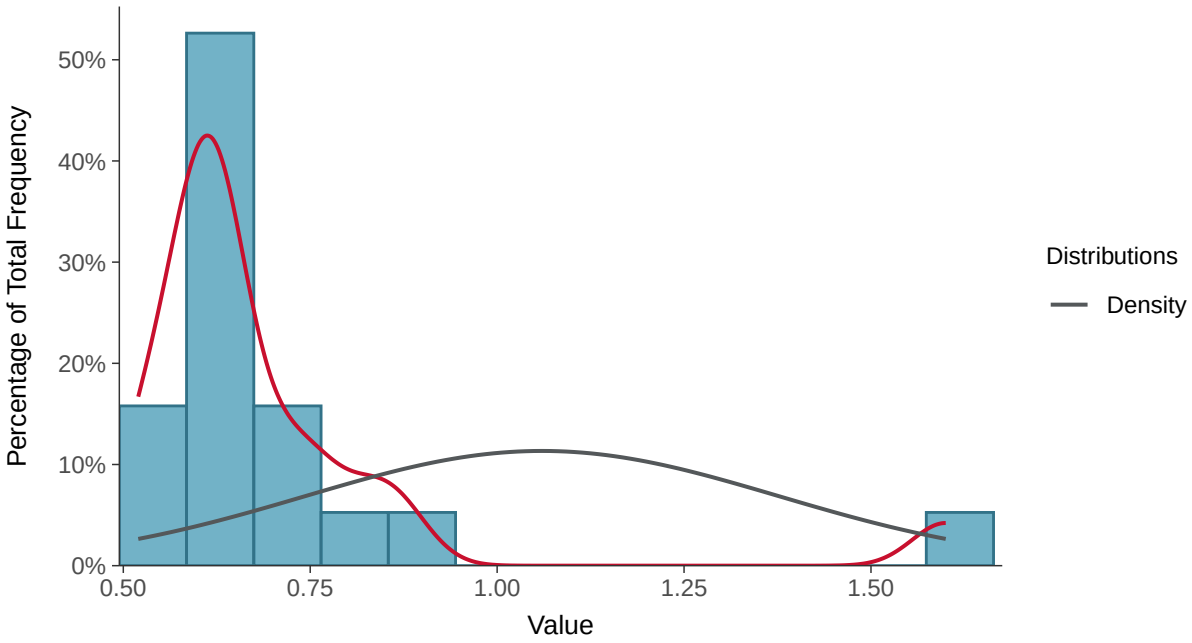
Scatter Plot

Fluoride (App IV), MW-03 (mg/L)



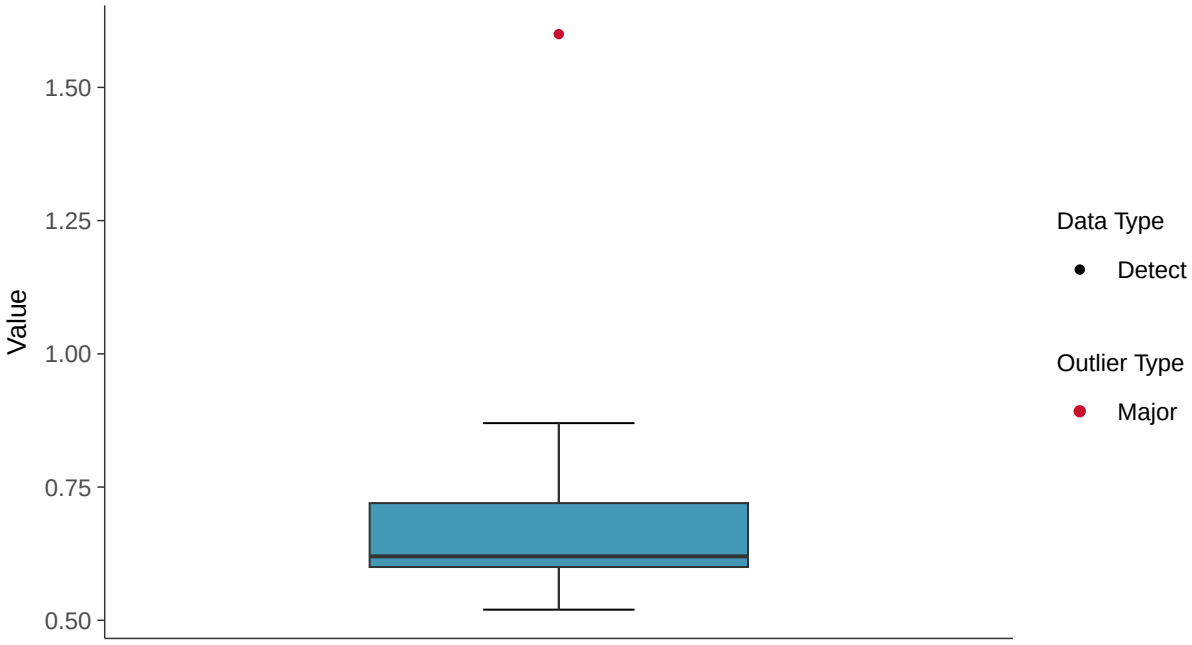
Histogram

Fluoride (App IV), MW-03 (mg/L)



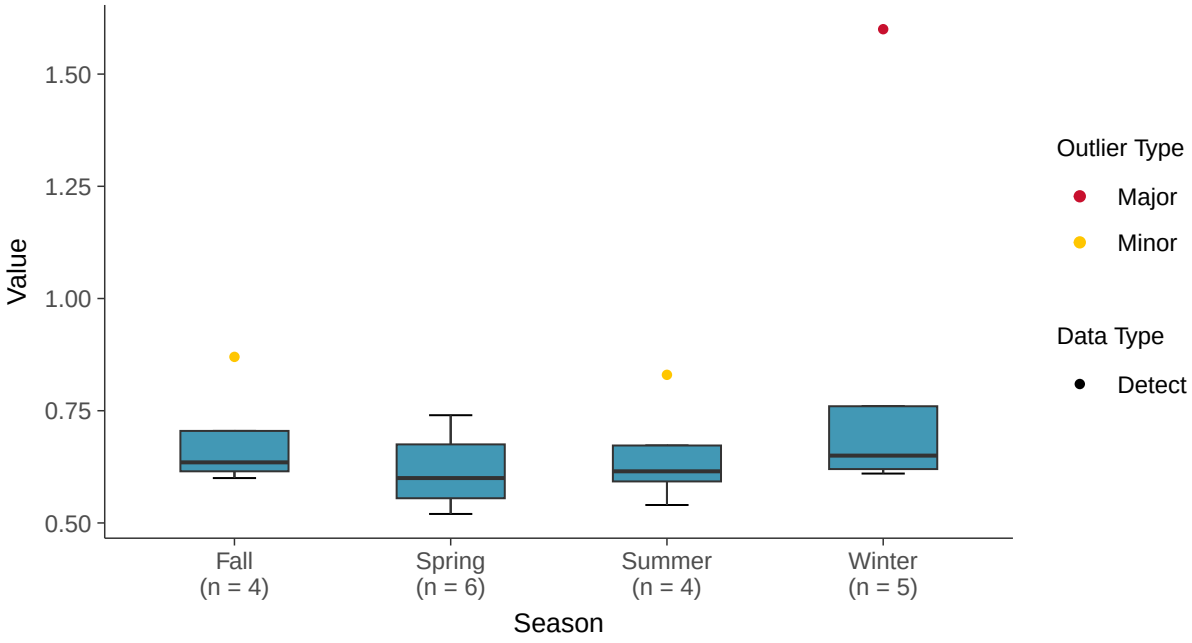
Boxplot

Fluoride (App IV), MW-03 (mg/L)



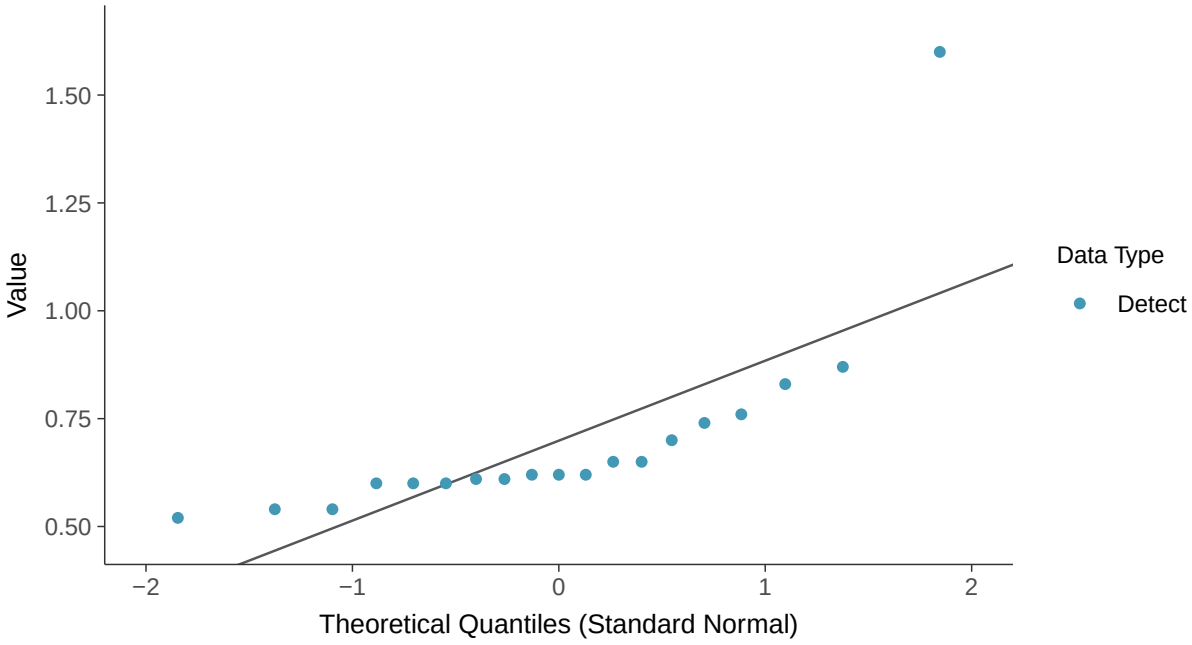
Boxplot by Season

Fluoride (App IV), MW-03 (mg/L)



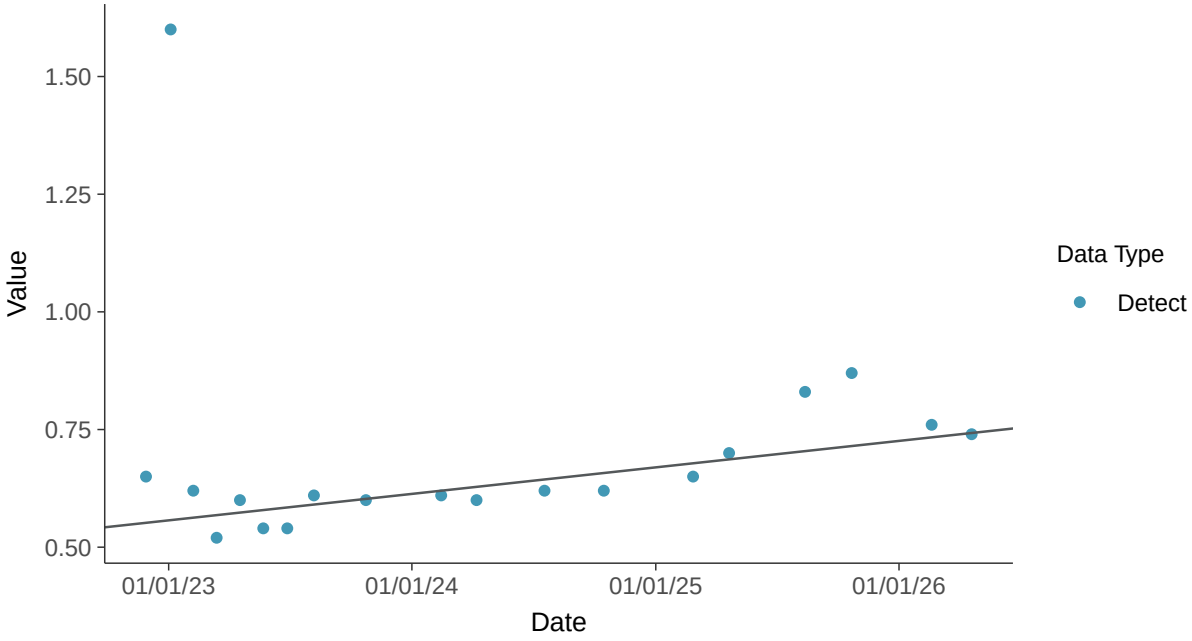
Normal Q-Q plot

Fluoride (App IV), MW-03 (mg/L)



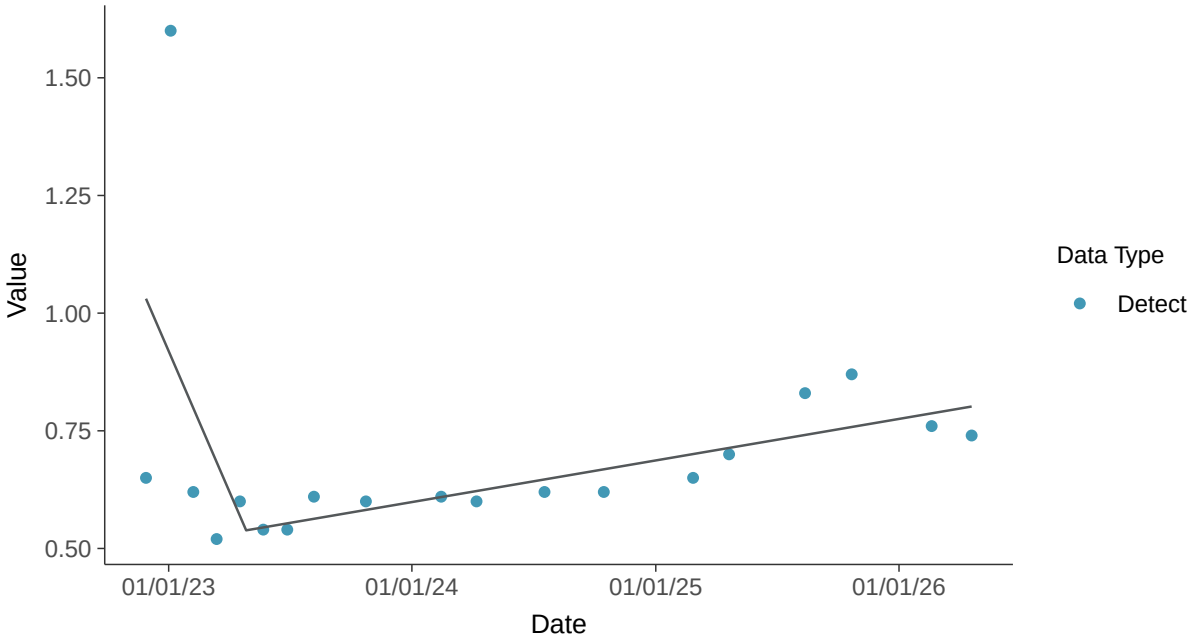
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-03 (mg/L)



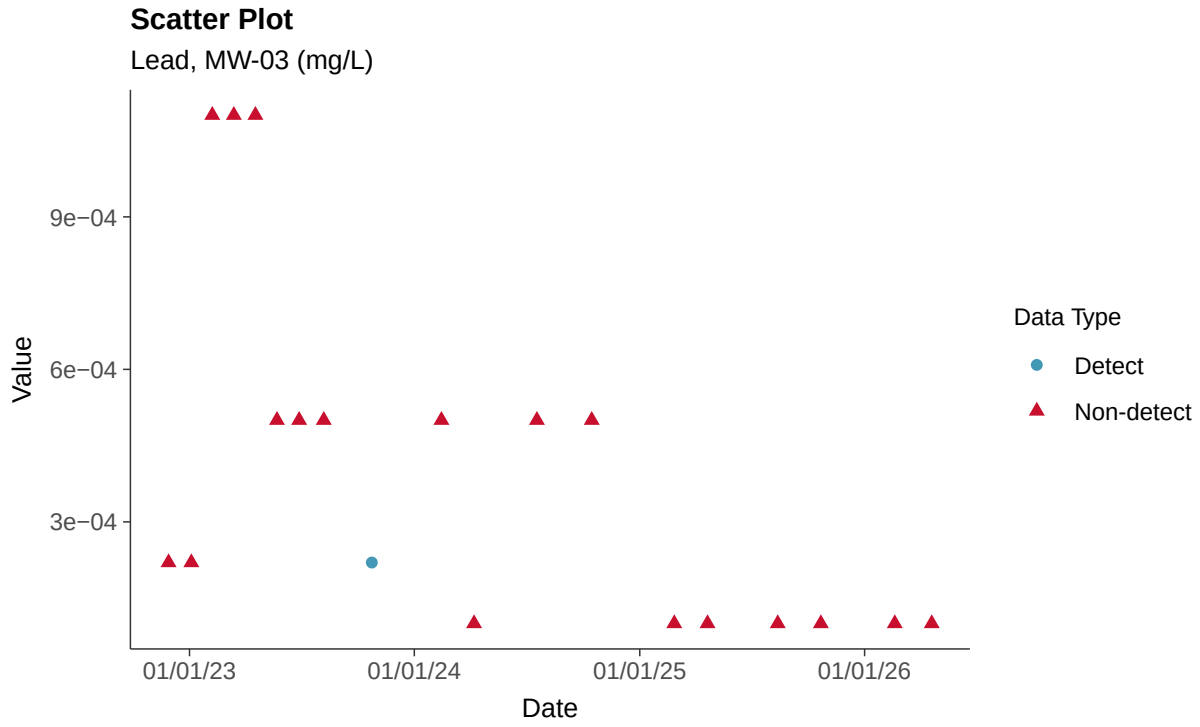
Trend Regression: Piecewise Linear-Linear

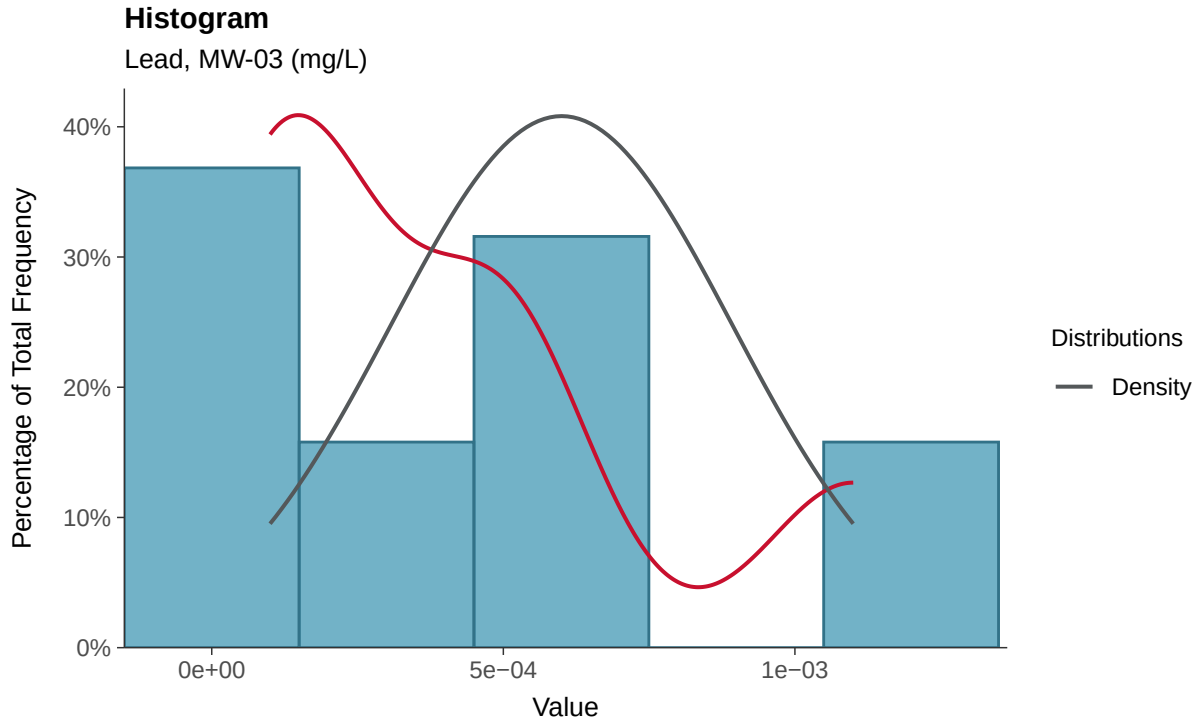
Fluoride (App IV), MW-03 (mg/L)



Appendix IV: Lead, MW-03

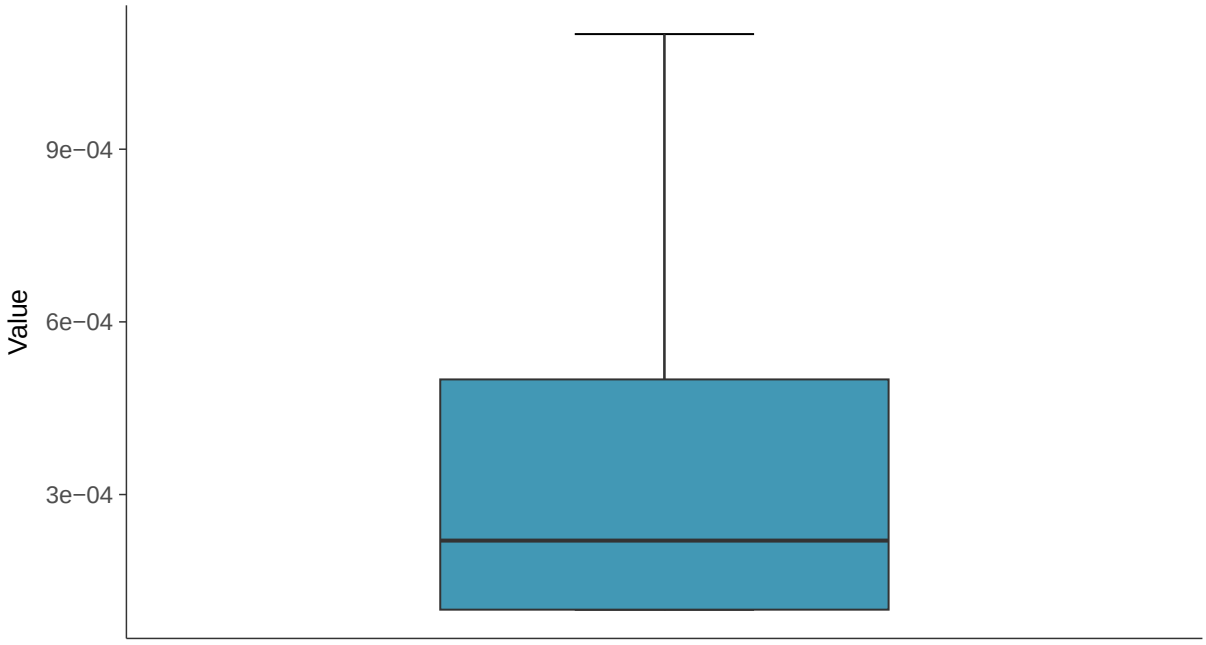
ID: 13_2_4_115





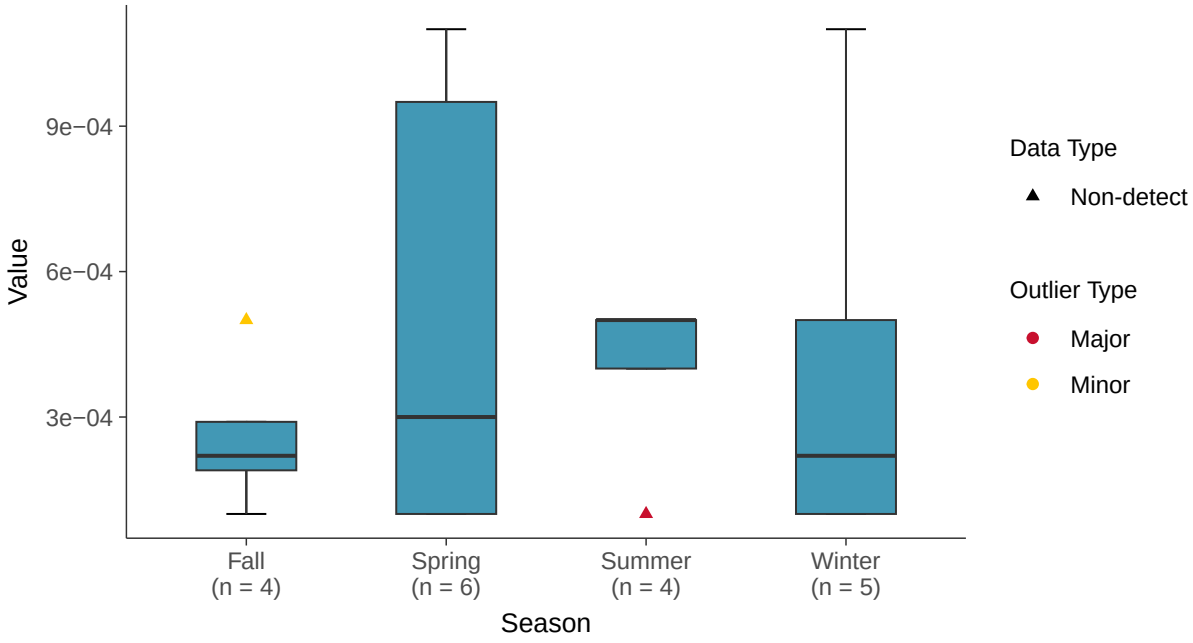
Boxplot

Lead, MW-03 (mg/L)



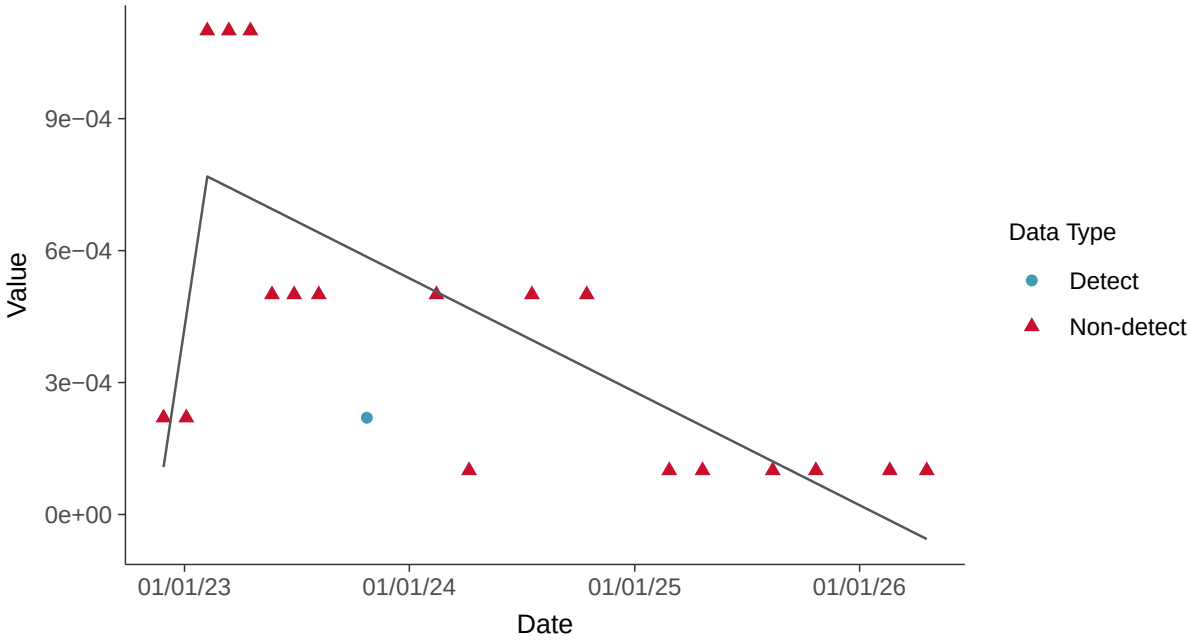
Boxplot by Season

Lead, MW-03 (mg/L)



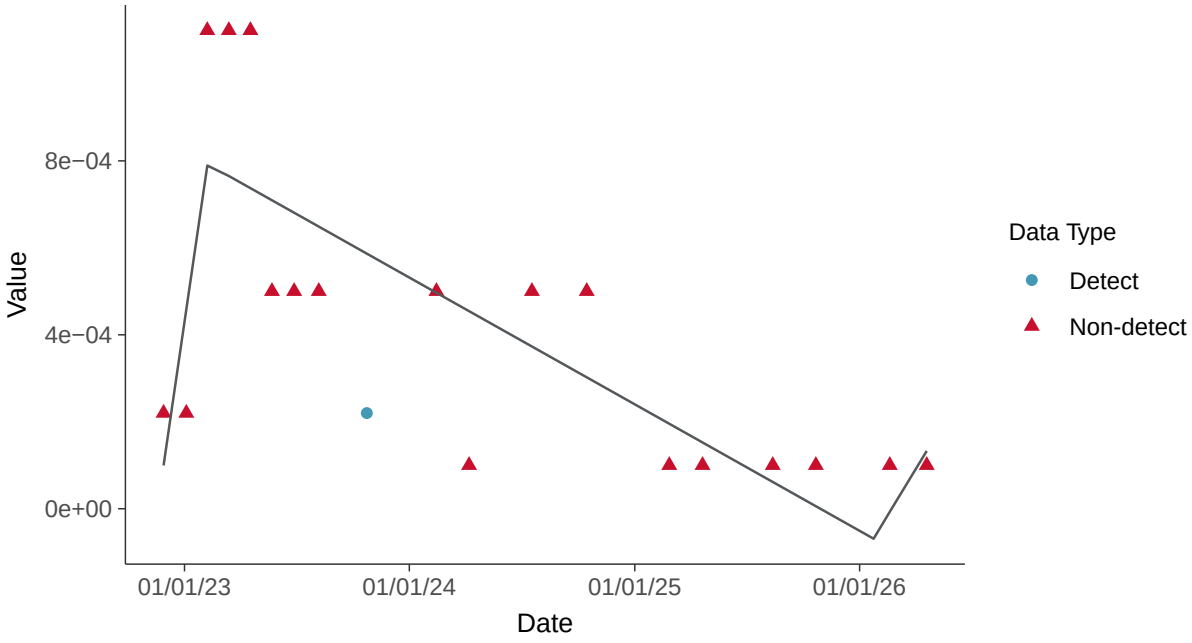
Trend Regression: Piecewise Linear-Linear

Lead, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-03 (mg/L)

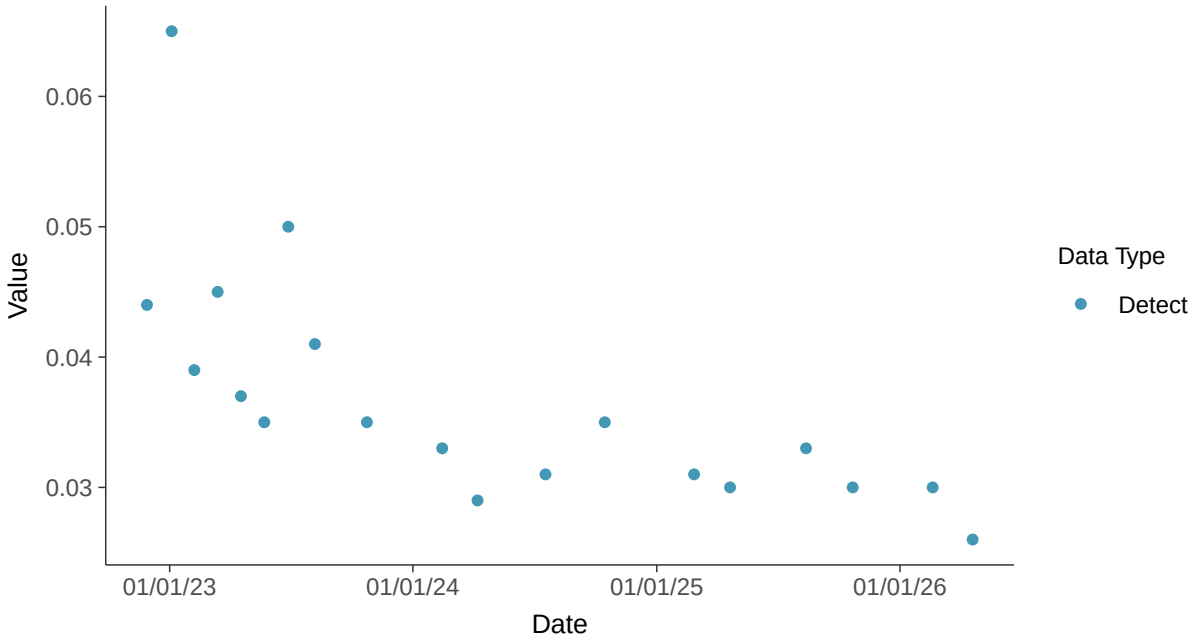


Appendix IV: Lithium, MW-03

ID: 13_2_4_116

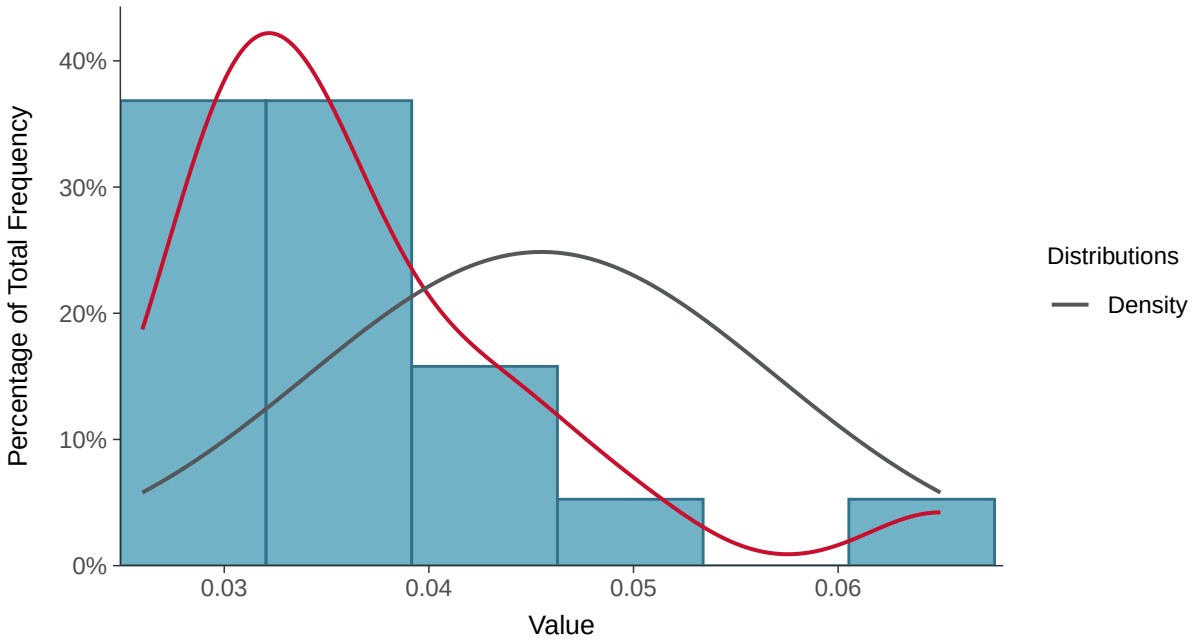
Scatter Plot

Lithium, MW-03 (mg/L)



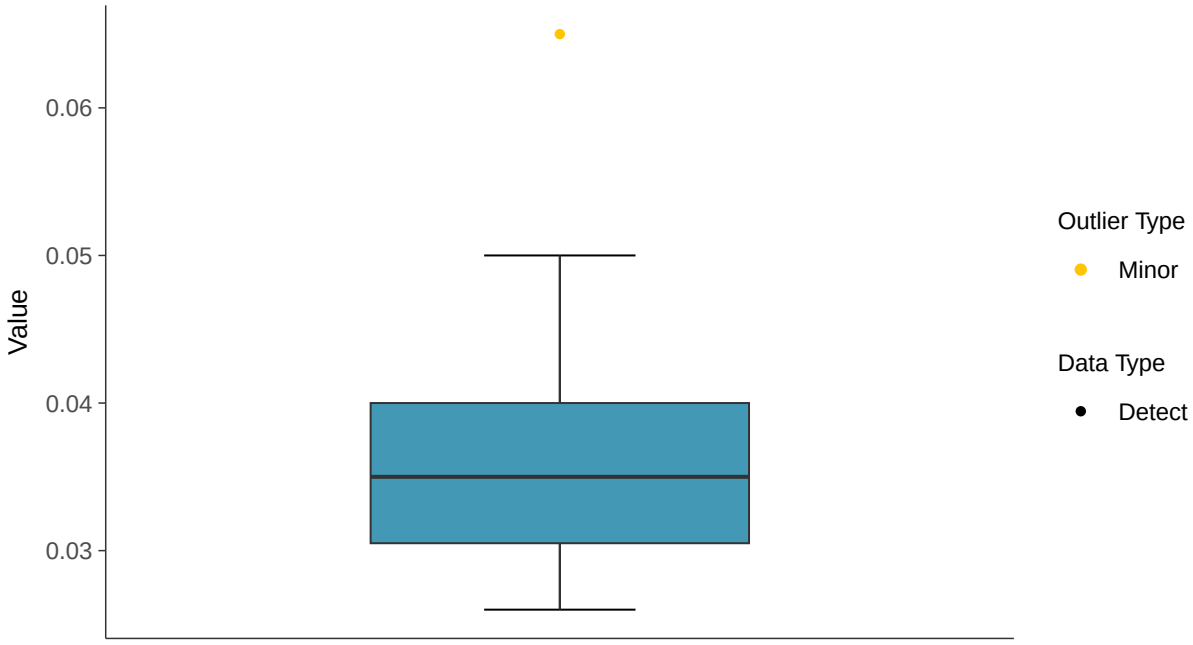
Histogram

Lithium, MW-03 (mg/L)



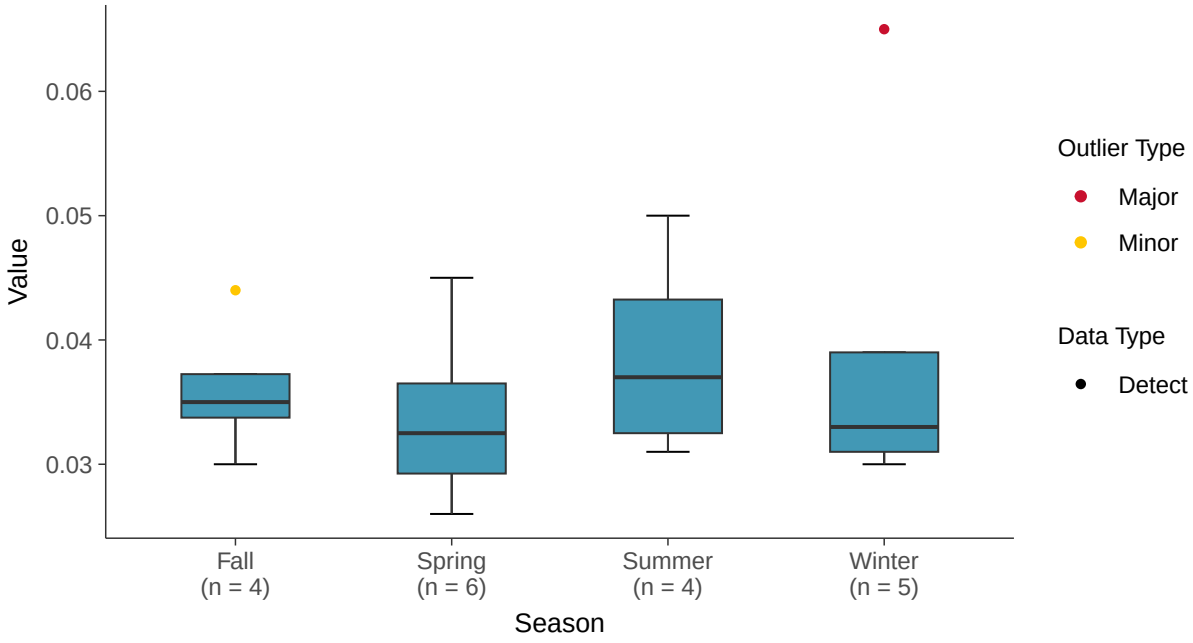
Boxplot

Lithium, MW-03 (mg/L)



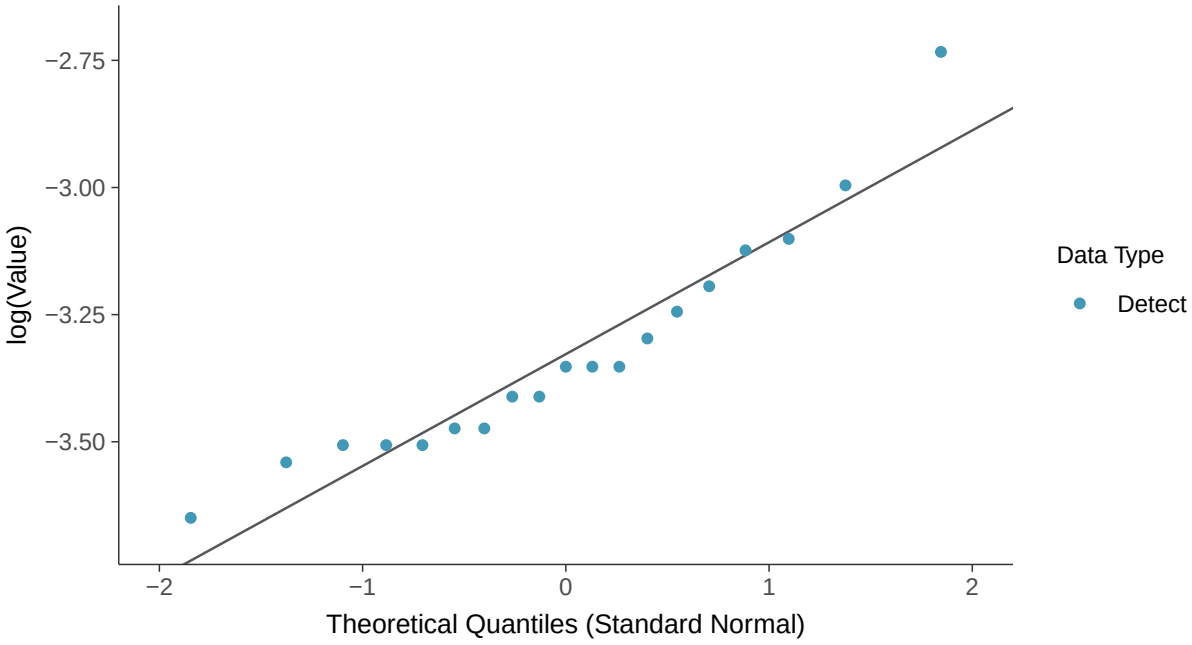
Boxplot by Season

Lithium, MW-03 (mg/L)



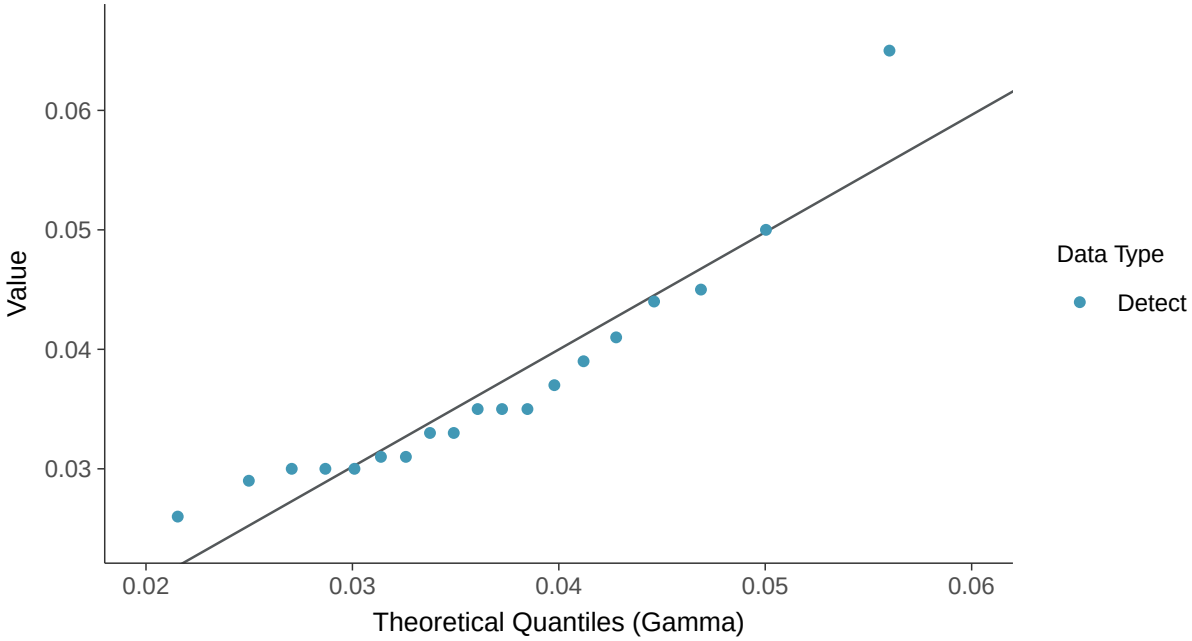
Lognormal Q-Q plot

Lithium, MW-03 (mg/L)



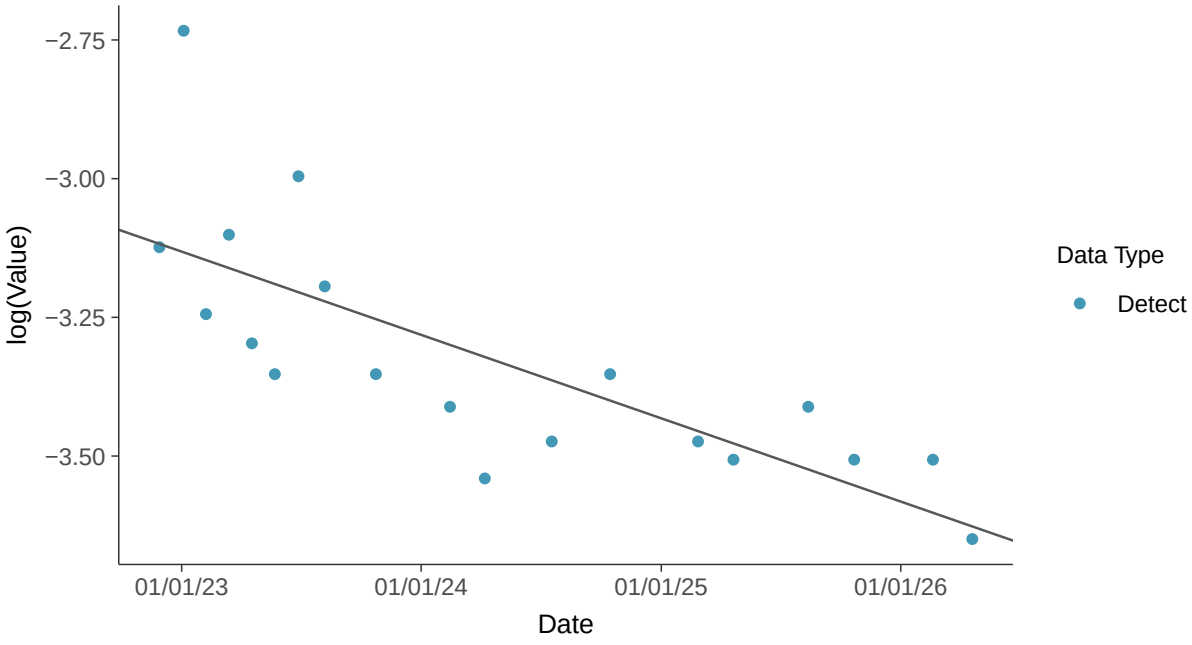
Gamma Q-Q plot

Lithium, MW-03 (mg/L)



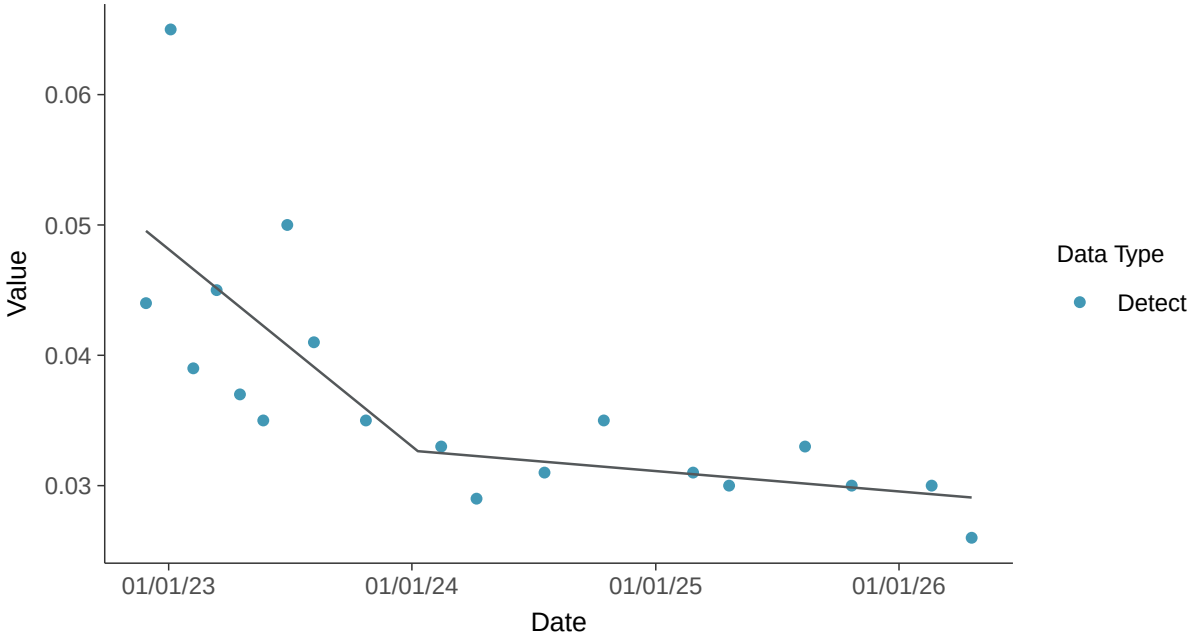
Trend Regression: Lognormal MLE

Lithium, MW-03 (mg/L)



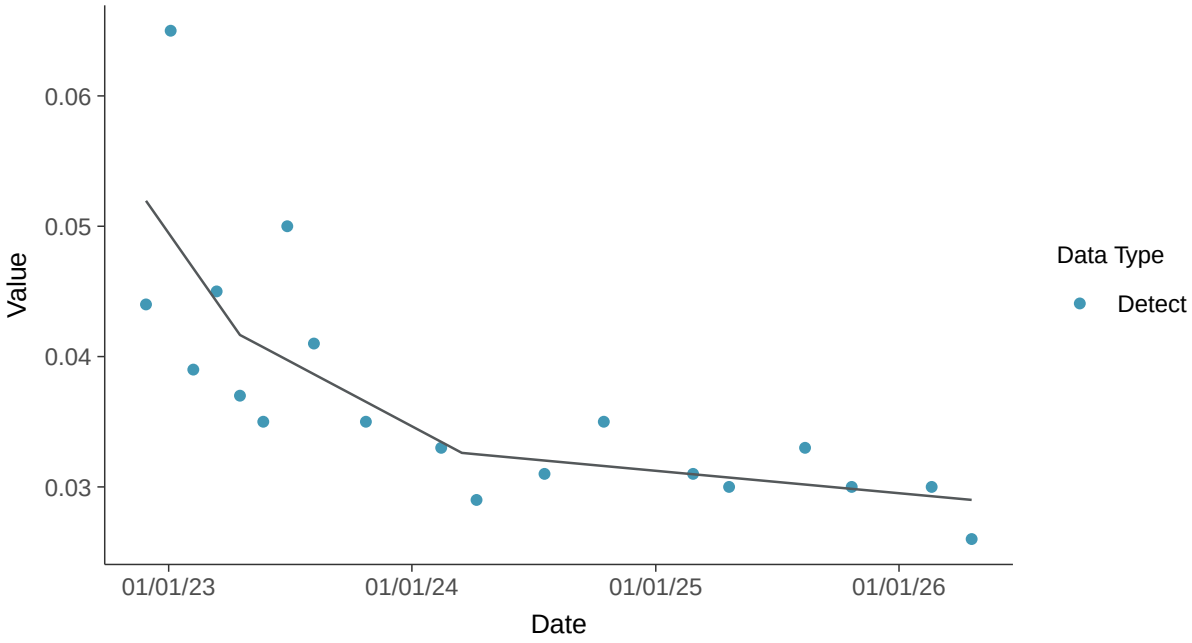
Trend Regression: Piecewise Linear-Linear

Lithium, MW-03 (mg/L)



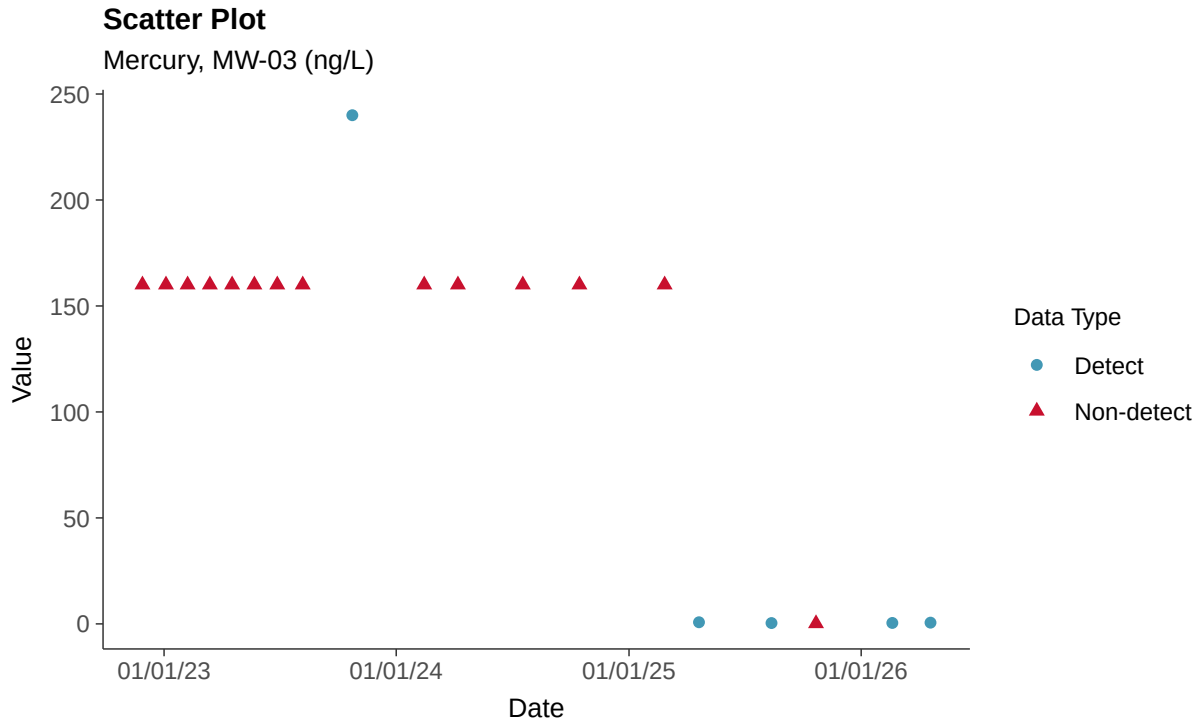
Trend Regression: Piecewise Linear-Linear-Linear

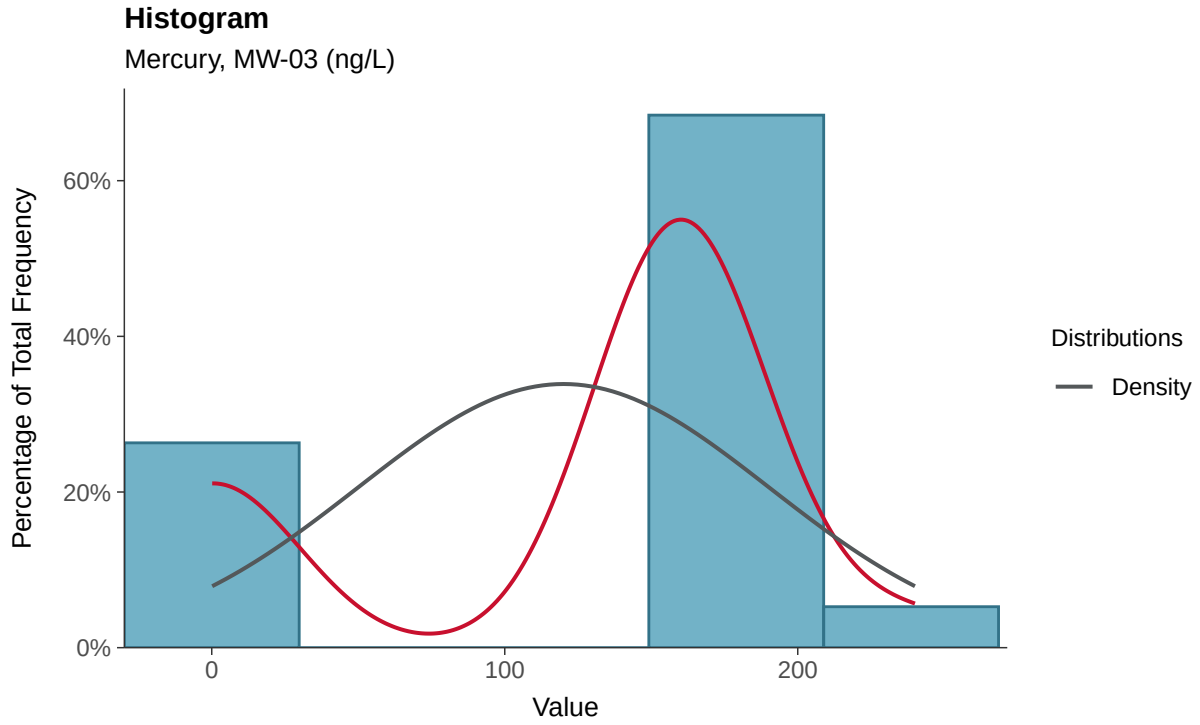
Lithium, MW-03 (mg/L)



Appendix IV: Mercury, MW-03

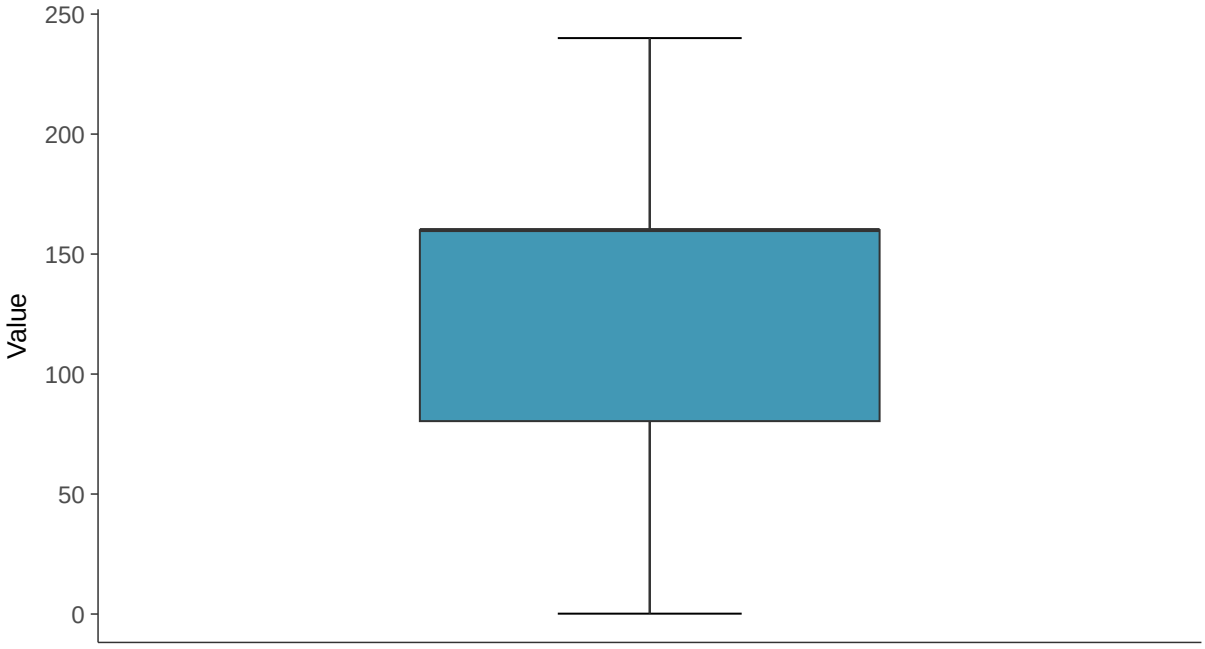
ID: 13_2_4_117





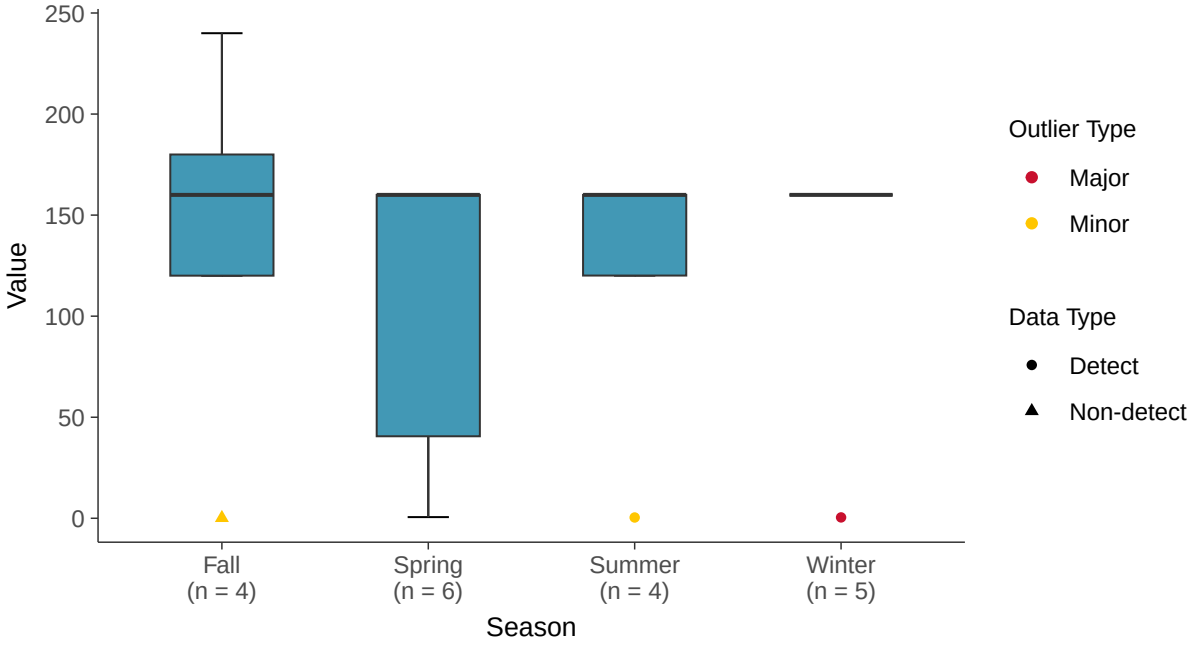
Boxplot

Mercury, MW-03 (ng/L)



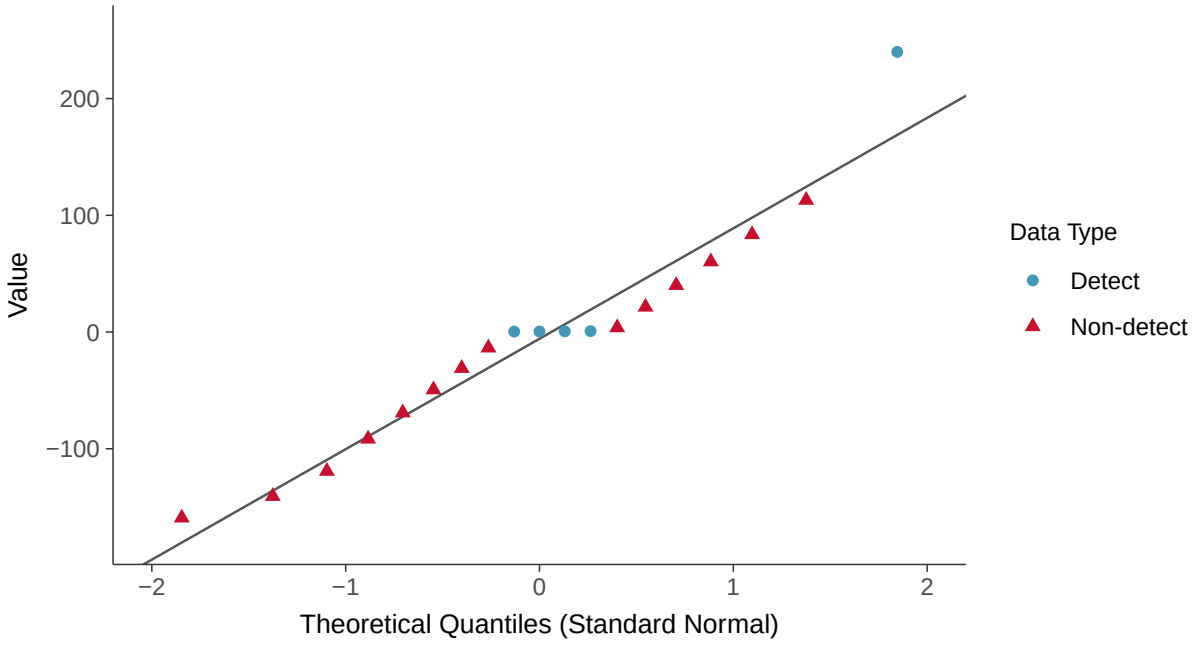
Boxplot by Season

Mercury, MW-03 (ng/L)



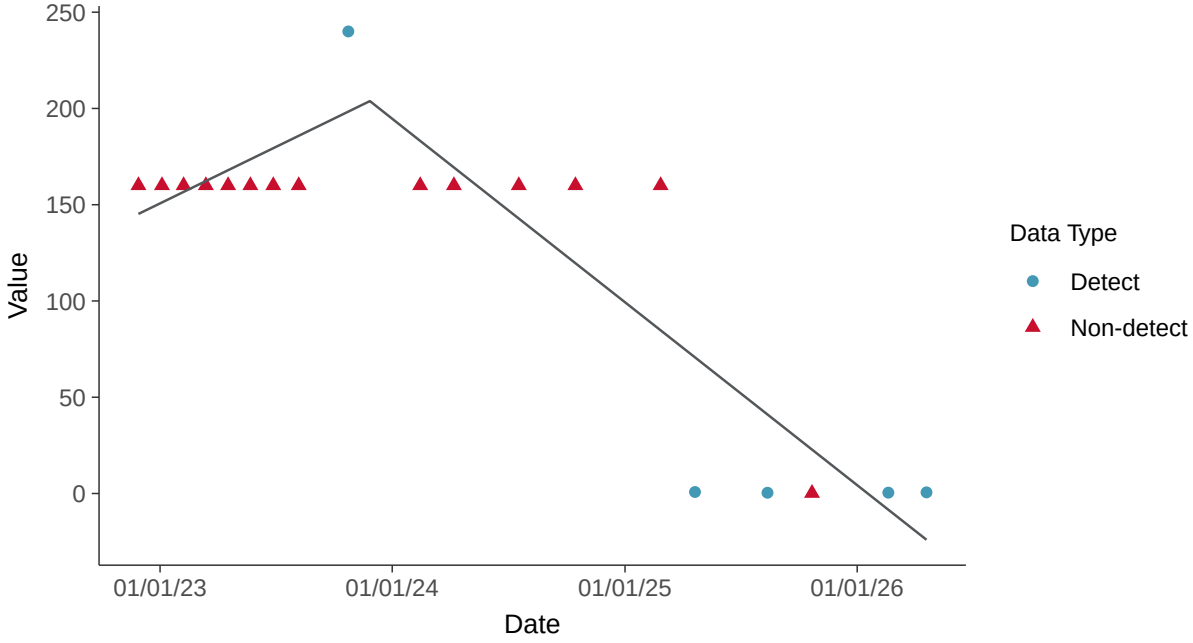
Normal Q-Q plot using ROS Imputed Estimates

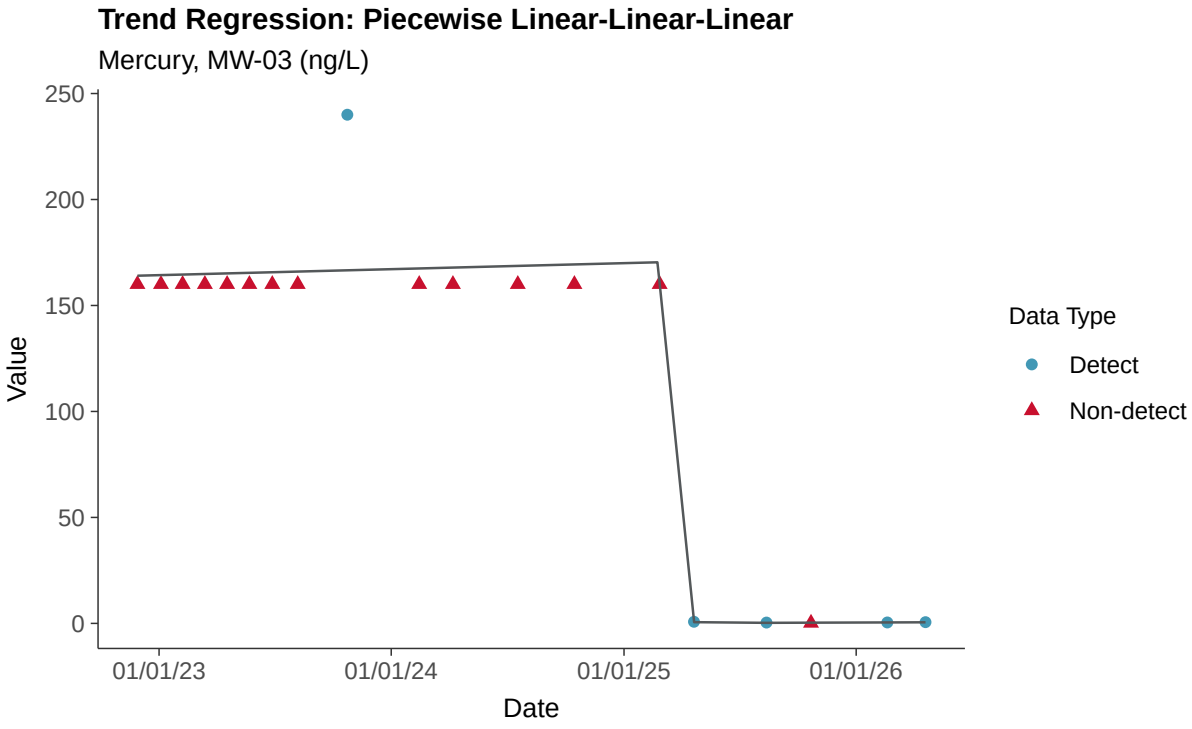
Mercury, MW-03 (ng/L)



Trend Regression: Piecewise Linear-Linear

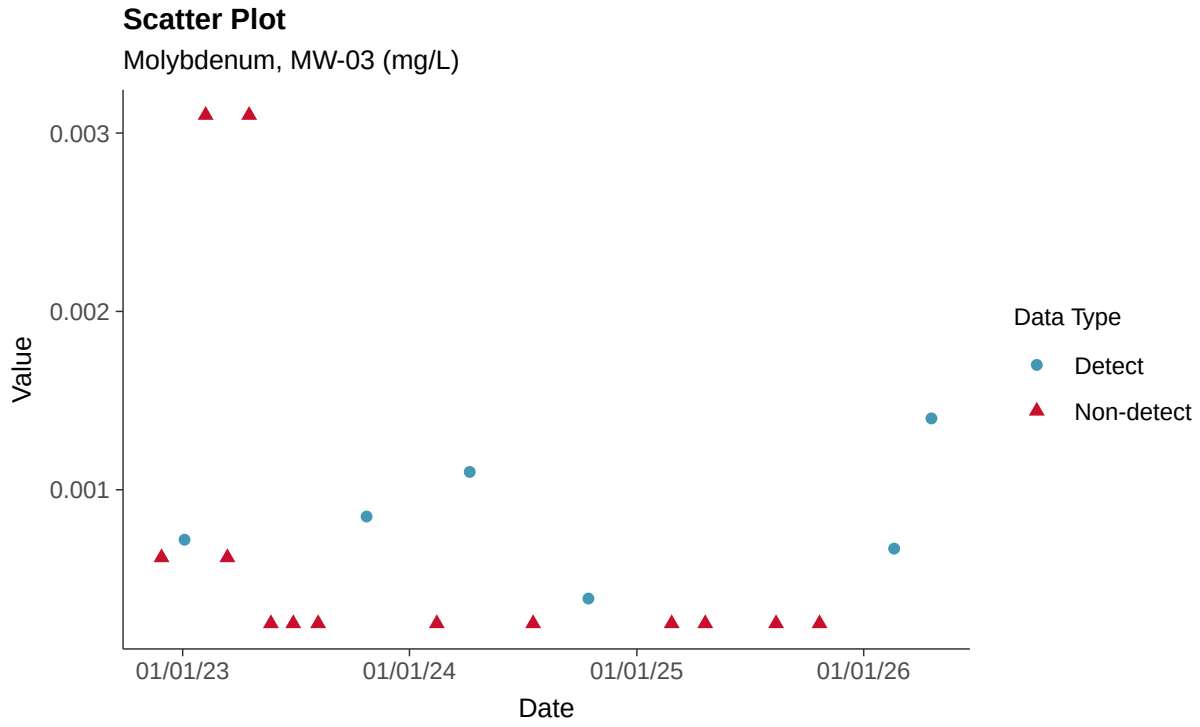
Mercury, MW-03 (ng/L)

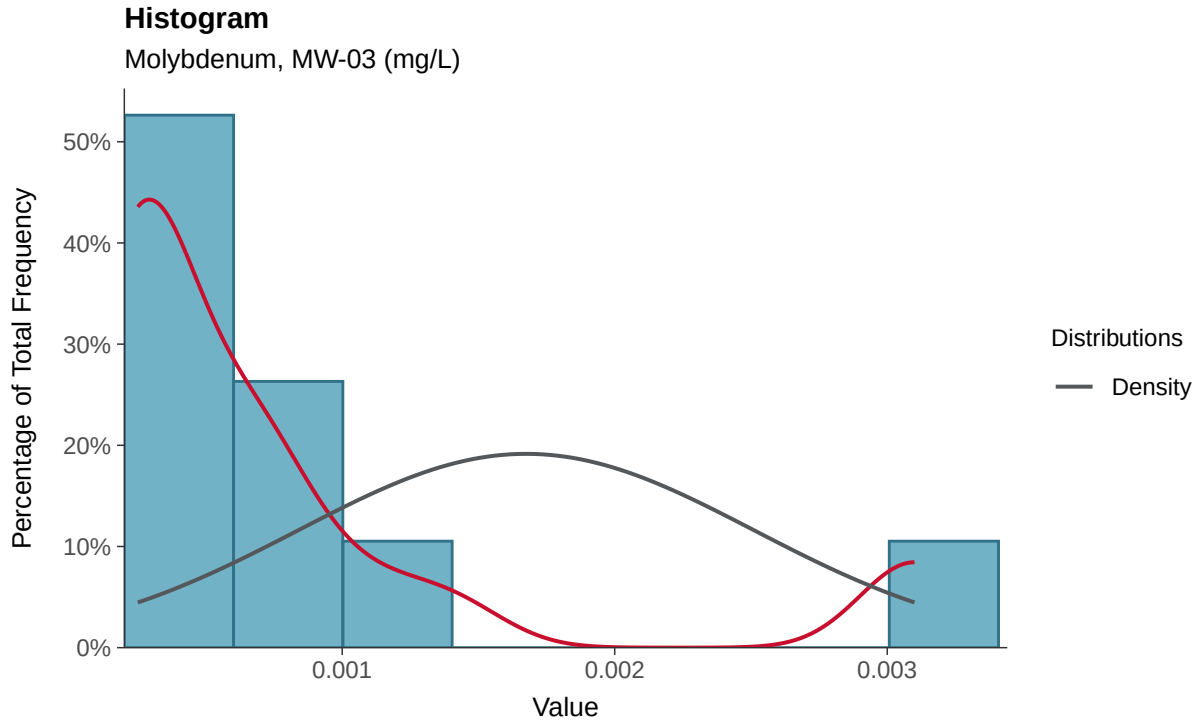



Trend Regression: Piecewise Linear-Linear-Linear
Mercury, MW-03 (ng/L)
250
200
150
100
50
0
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-03

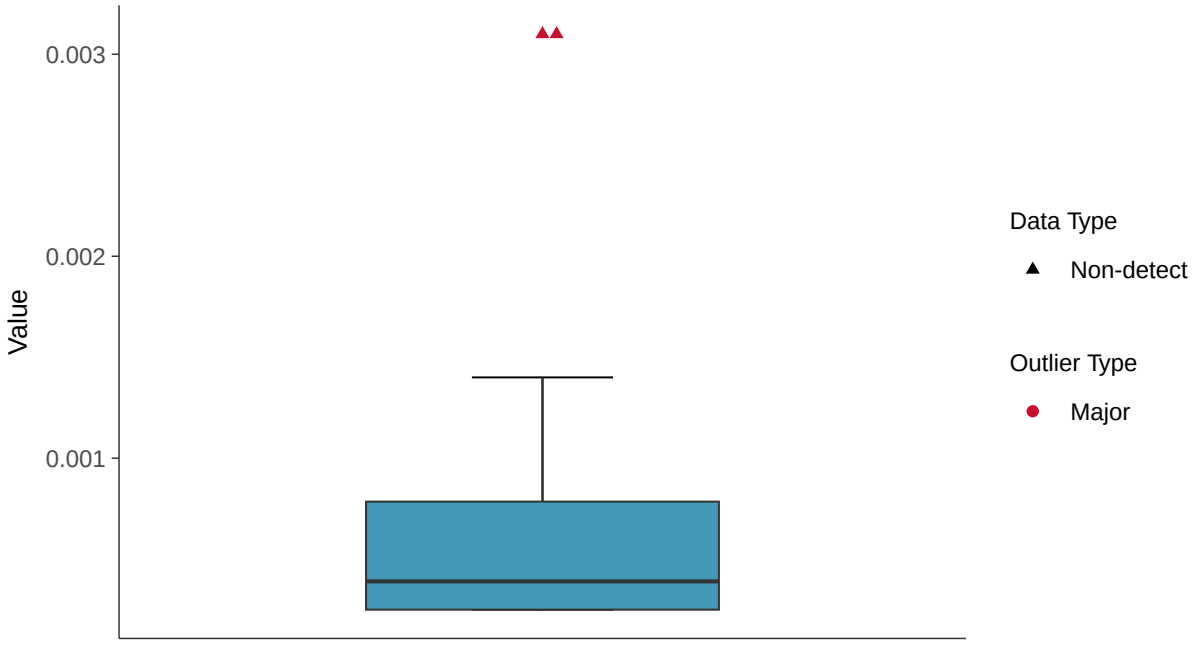
ID: 13_2_4_118





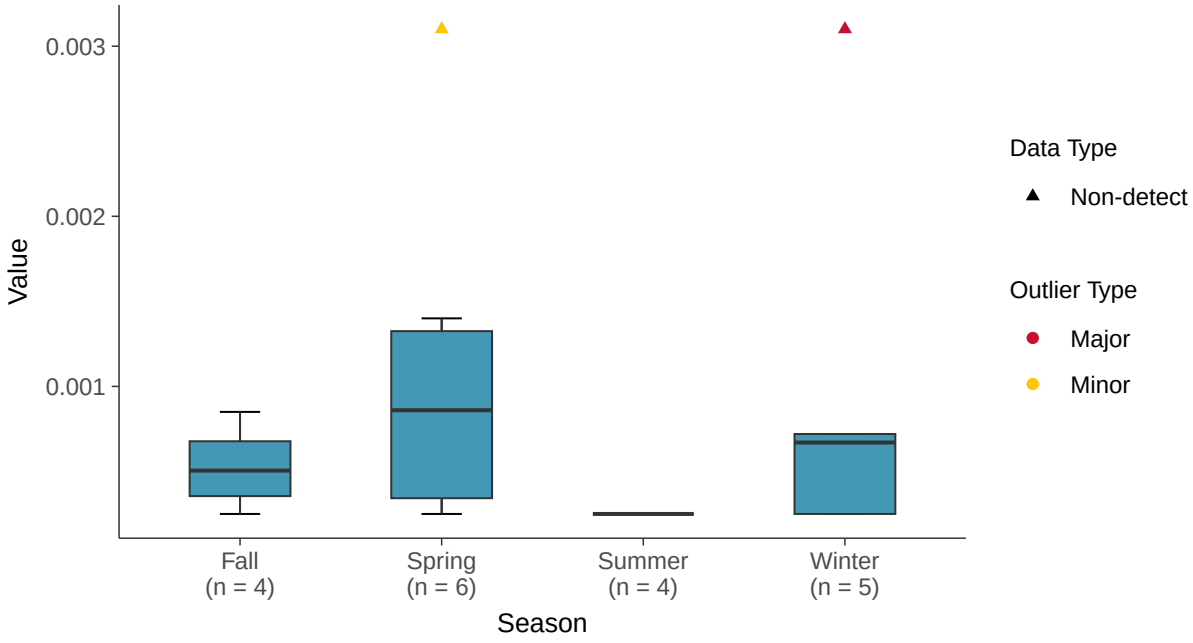
Boxplot

Molybdenum, MW-03 (mg/L)



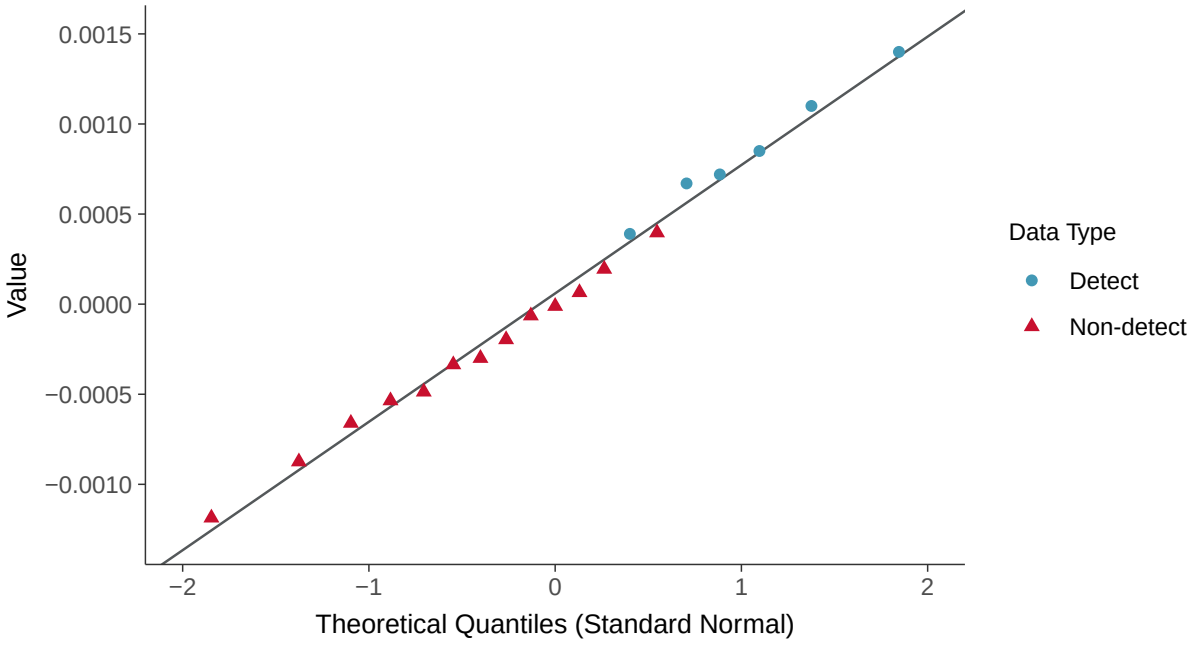
Boxplot by Season

Molybdenum, MW-03 (mg/L)



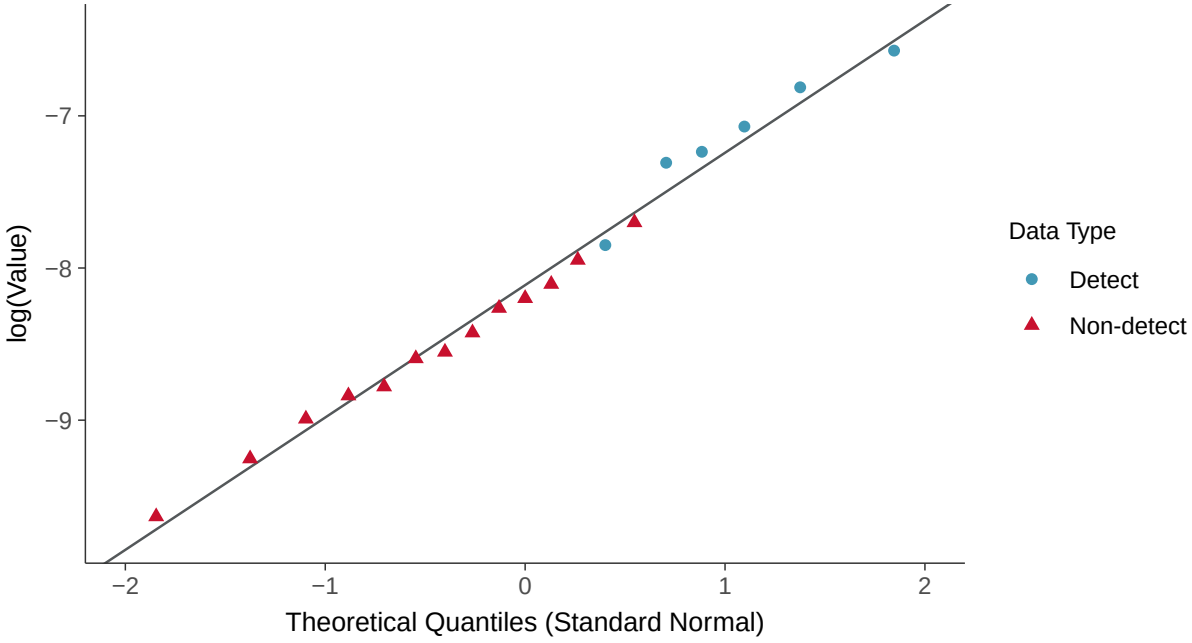
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-03 (mg/L)



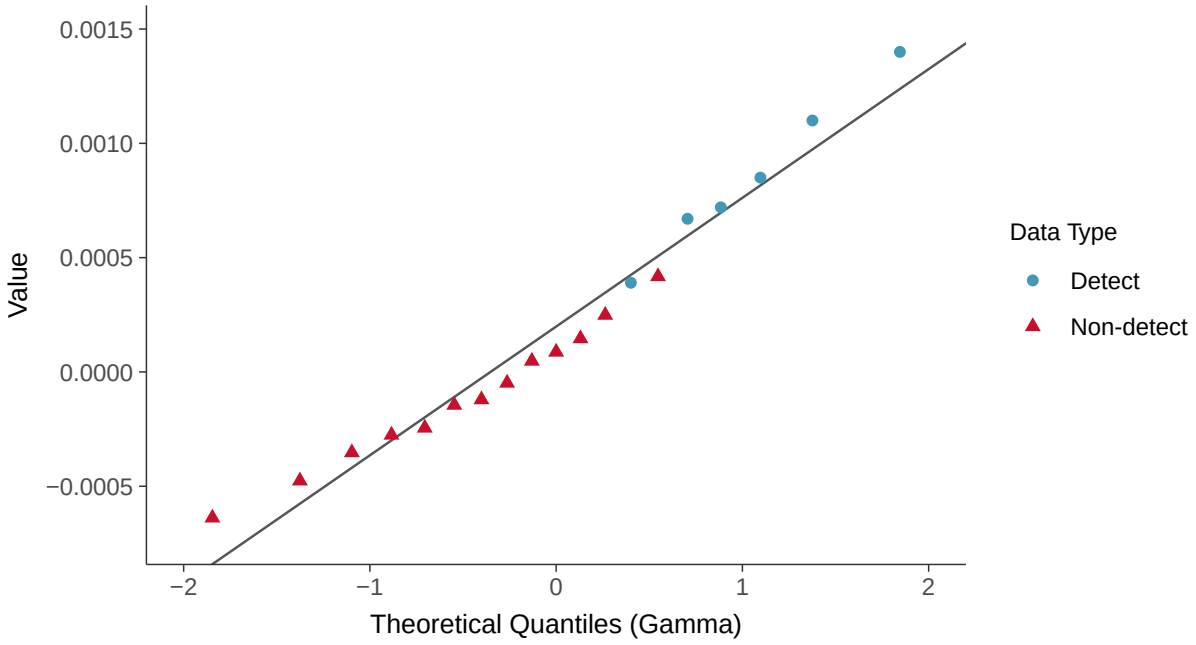
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-03 (mg/L)



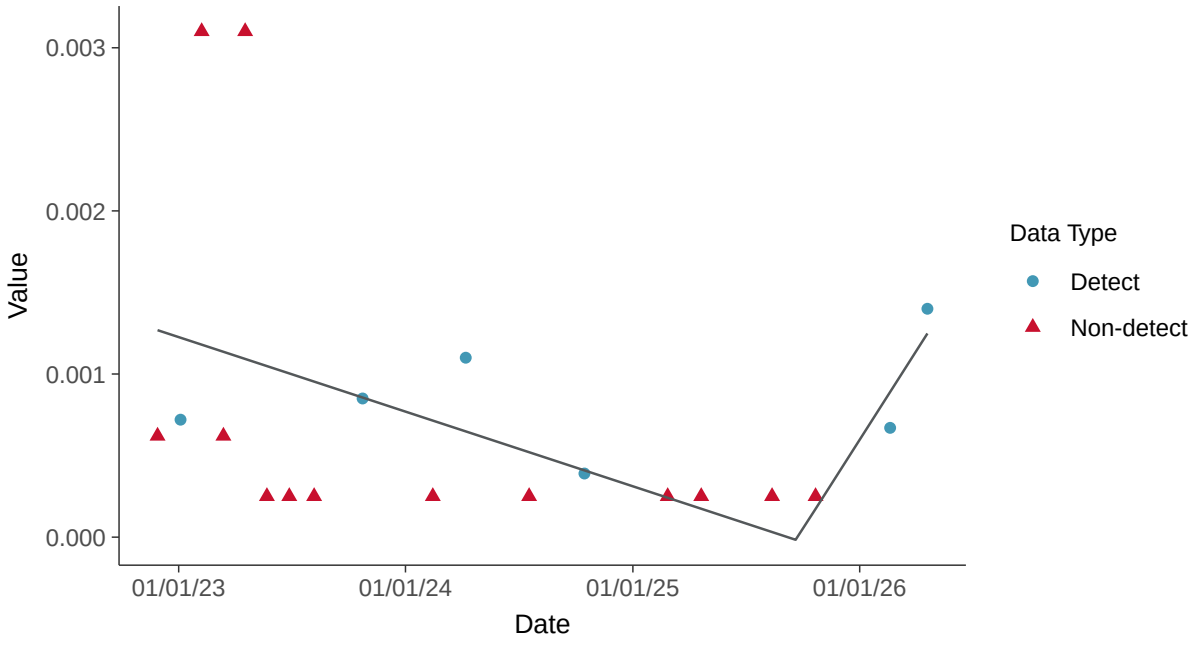
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-03 (mg/L)



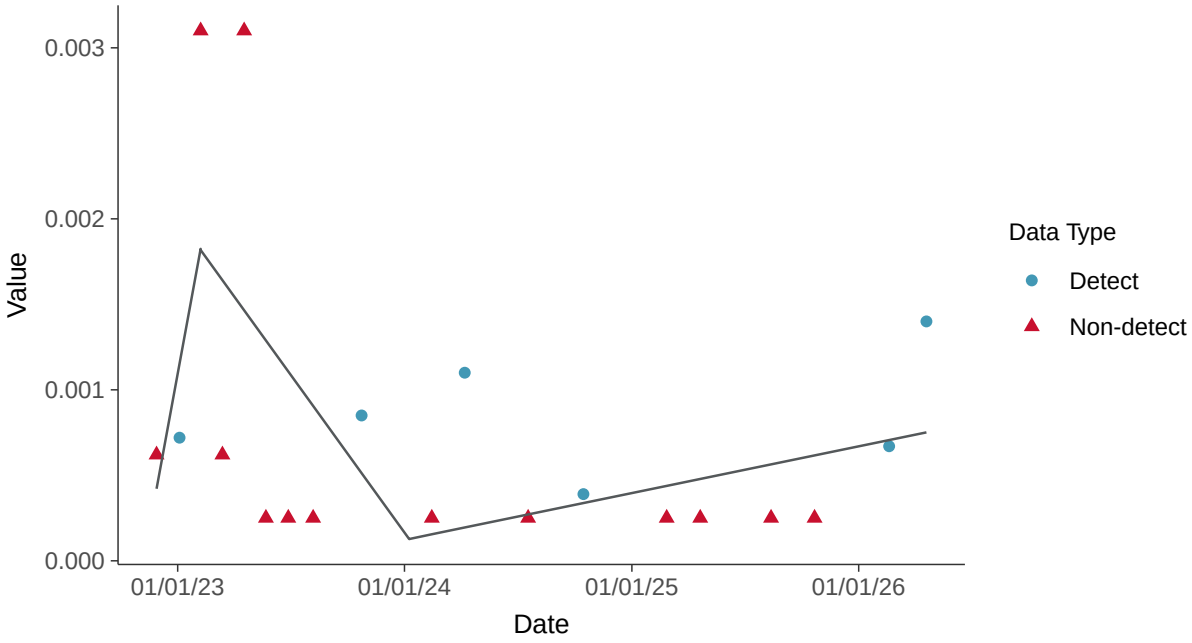
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-03 (mg/L)

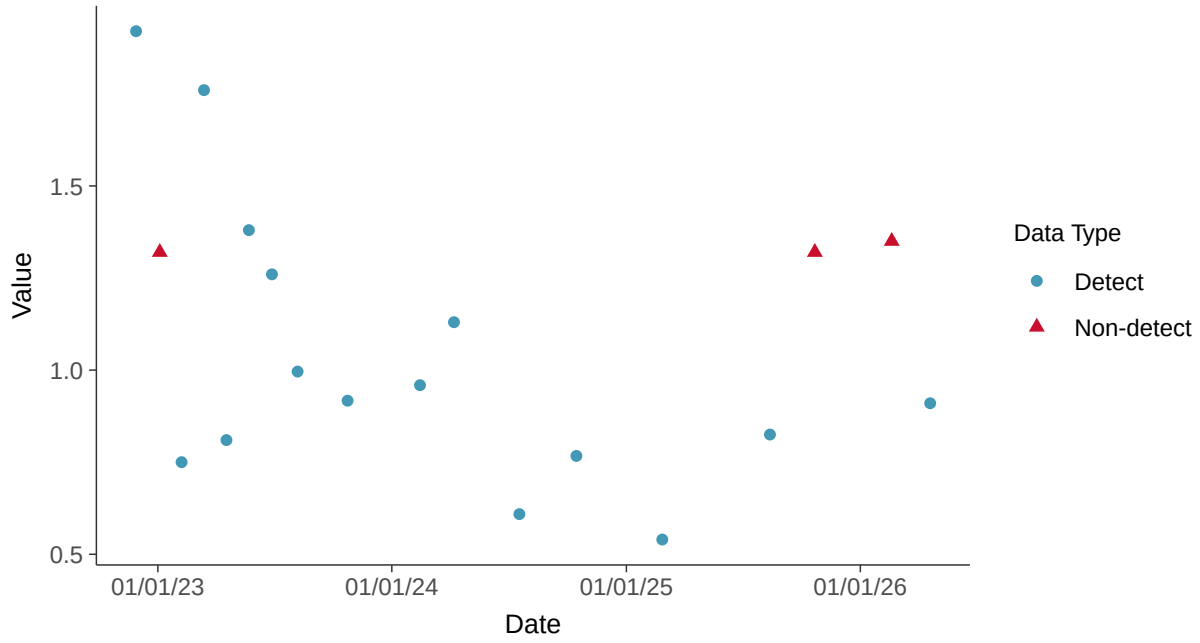


Appendix IV: Radium 226 and 228, MW-03

ID: 13_2_4_121

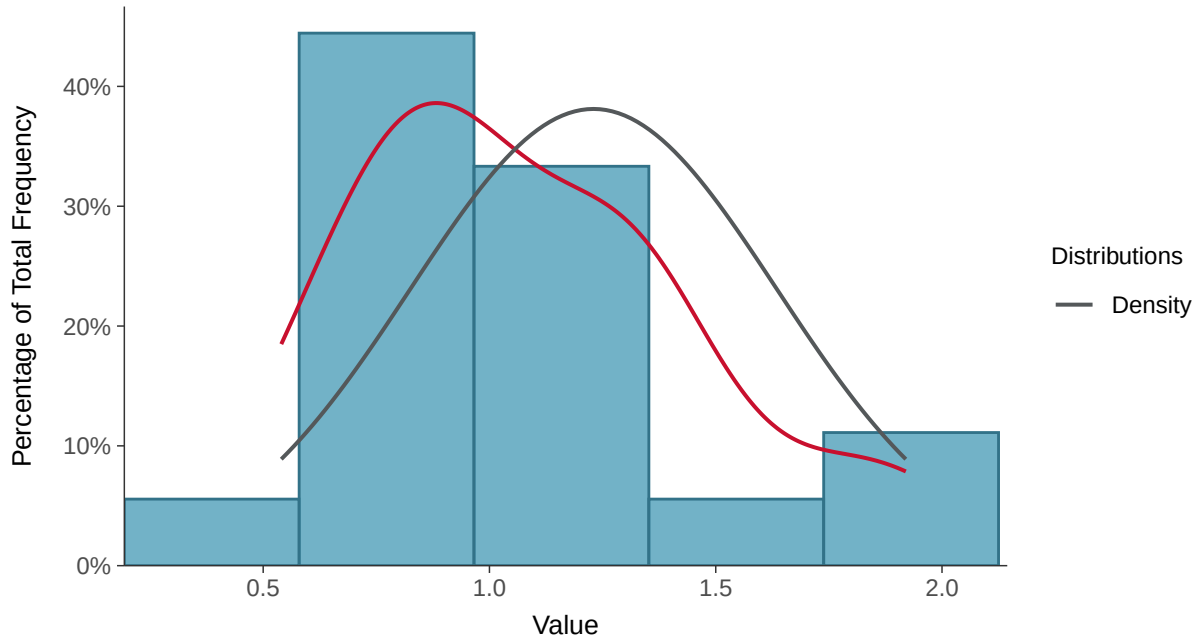
Scatter Plot

Radium 226 and 228, MW-03 (pCi/L)



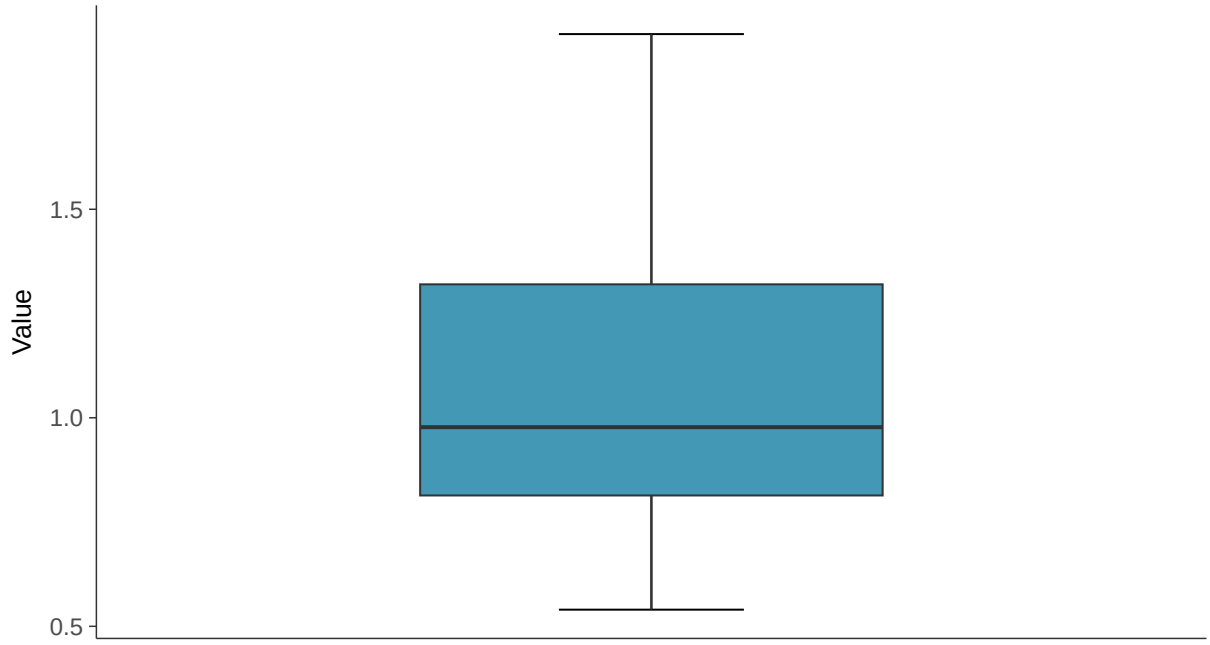
Histogram

Radium 226 and 228, MW-03 (pCi/L)



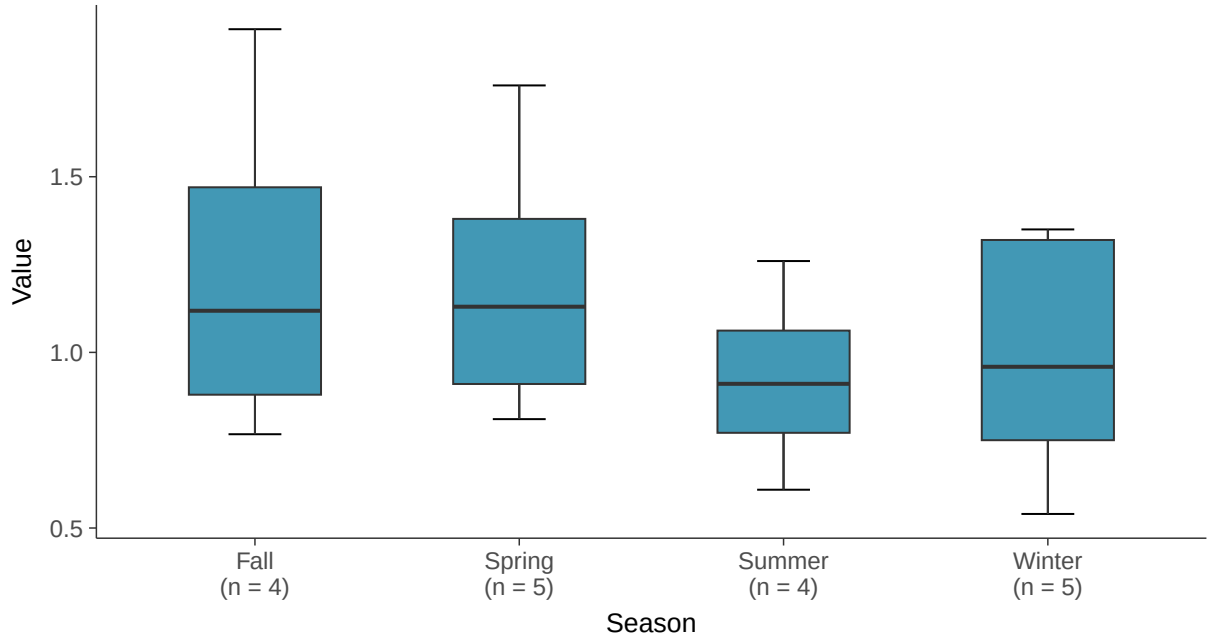
Boxplot

Radium 226 and 228, MW-03 (pCi/L)



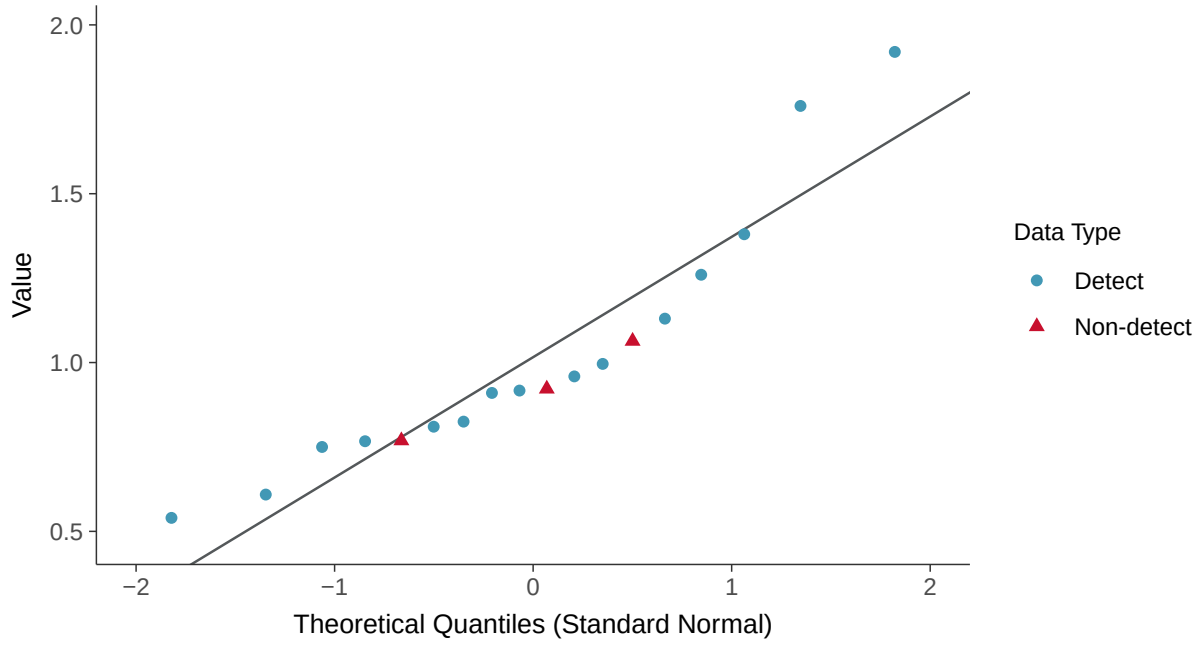
Boxplot by Season

Radium 226 and 228, MW-03 (pCi/L)



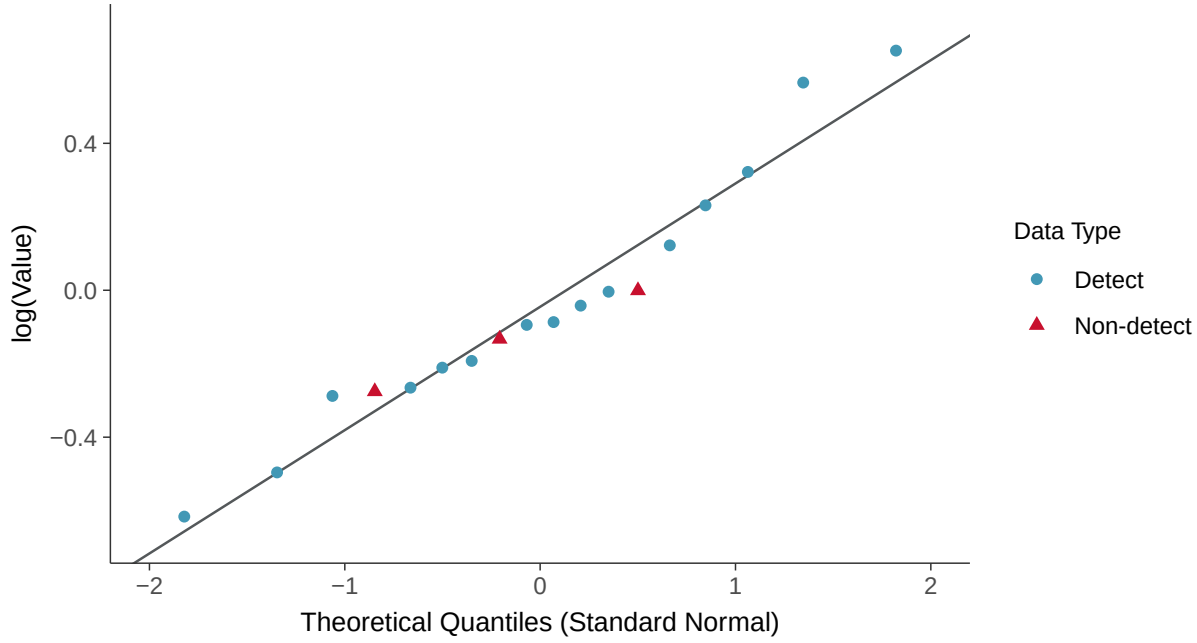
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)



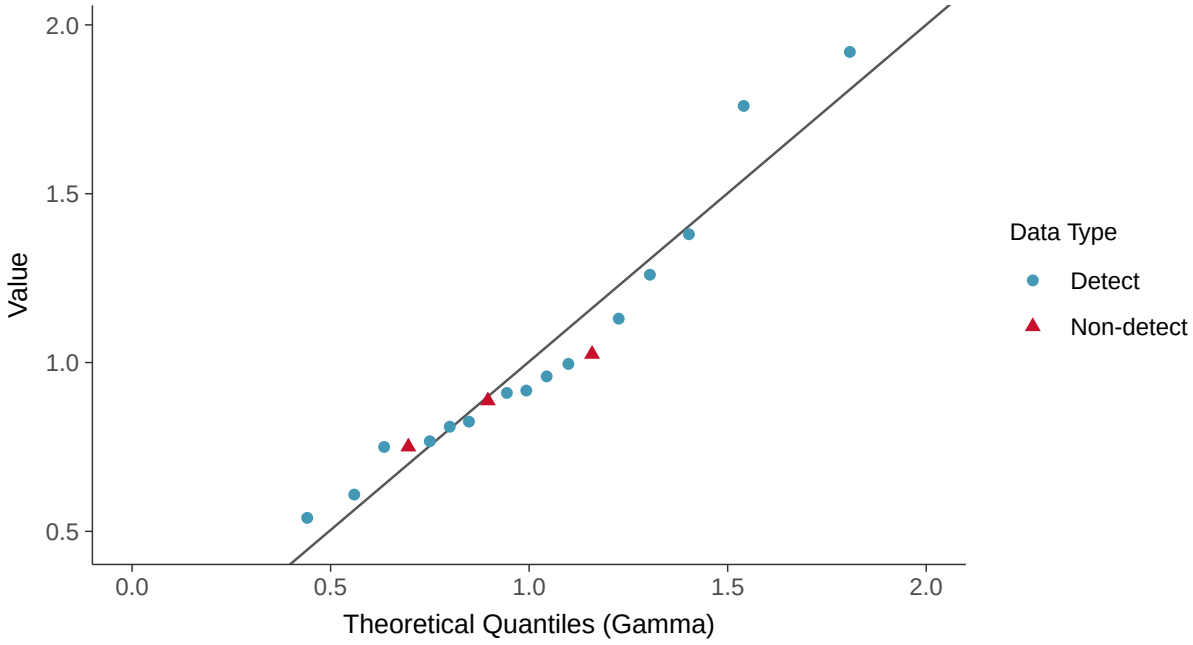
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)



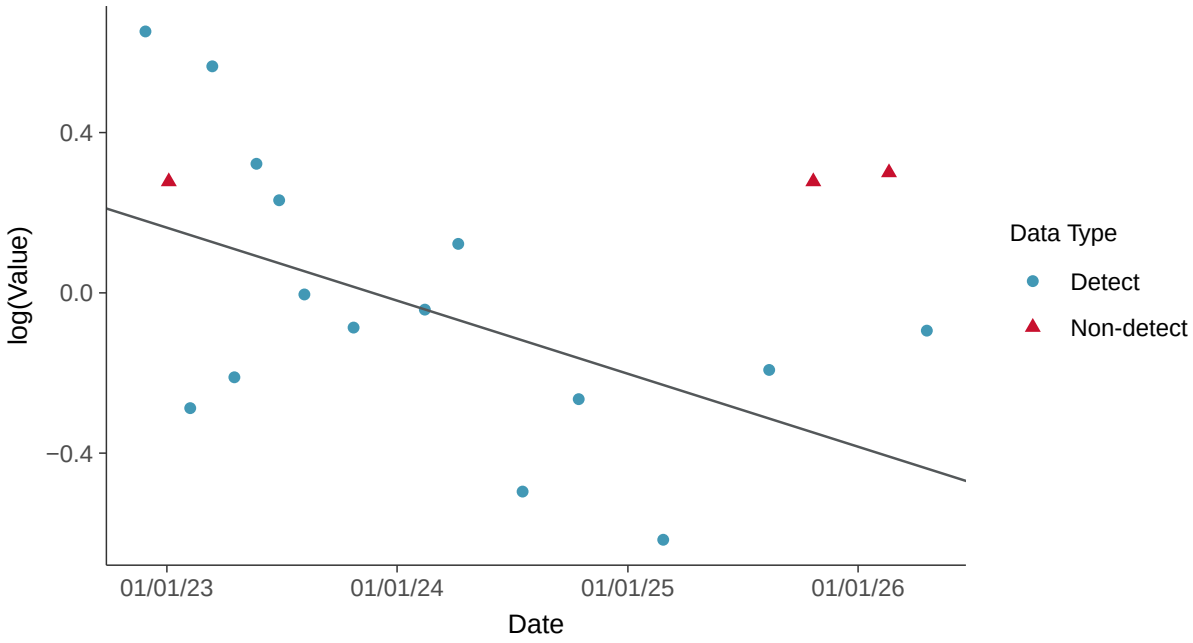
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-03 (pCi/L)



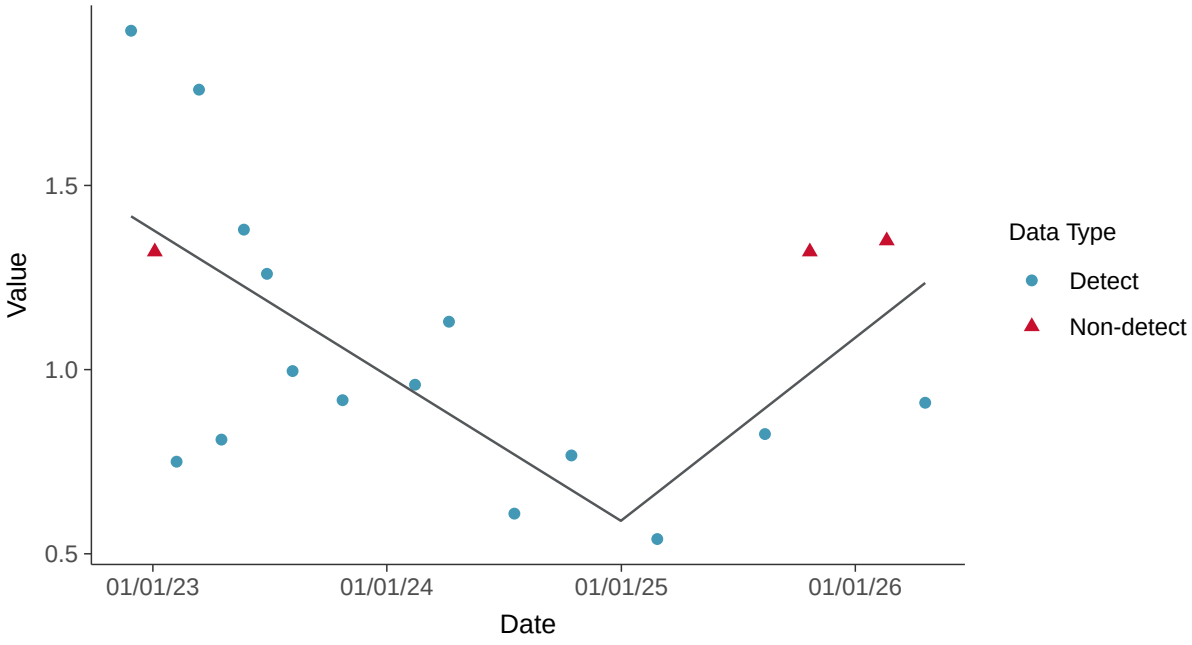
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-03 (pCi/L)



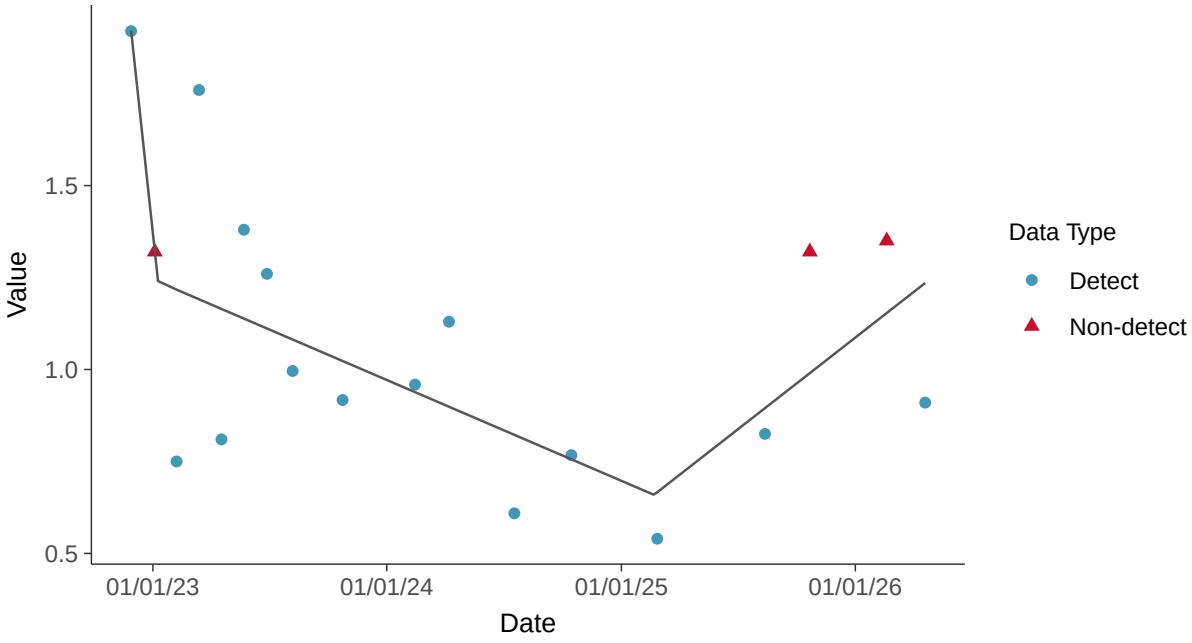
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-03 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-03 (pCi/L)

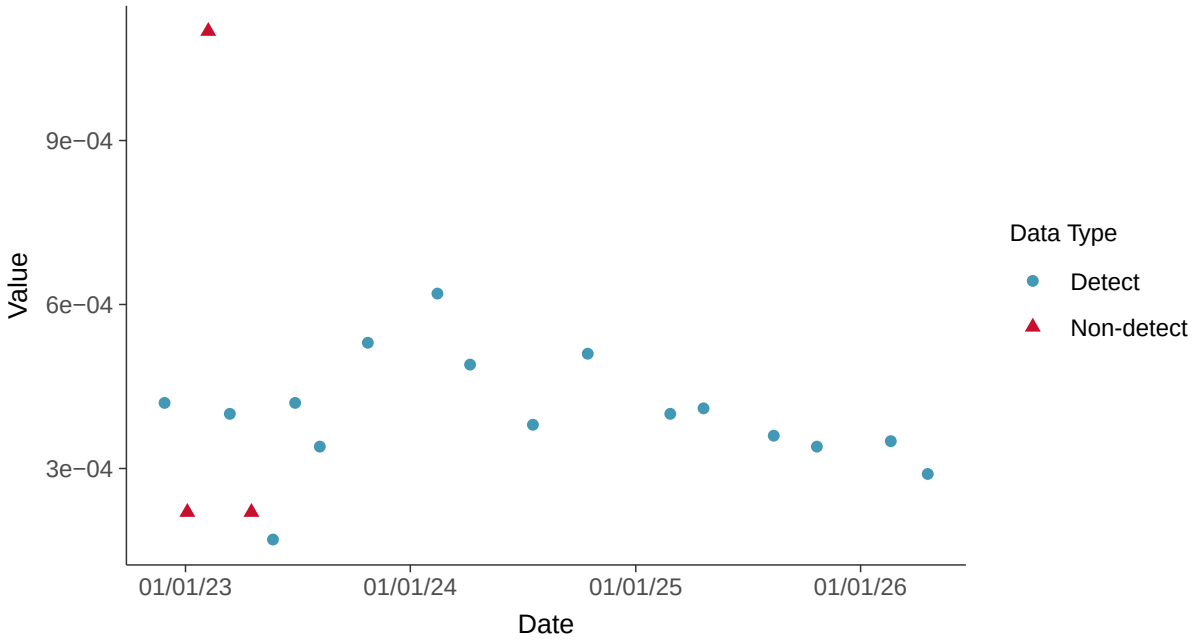


Appendix IV: Selenium, MW-03

ID: 13_2_4_122

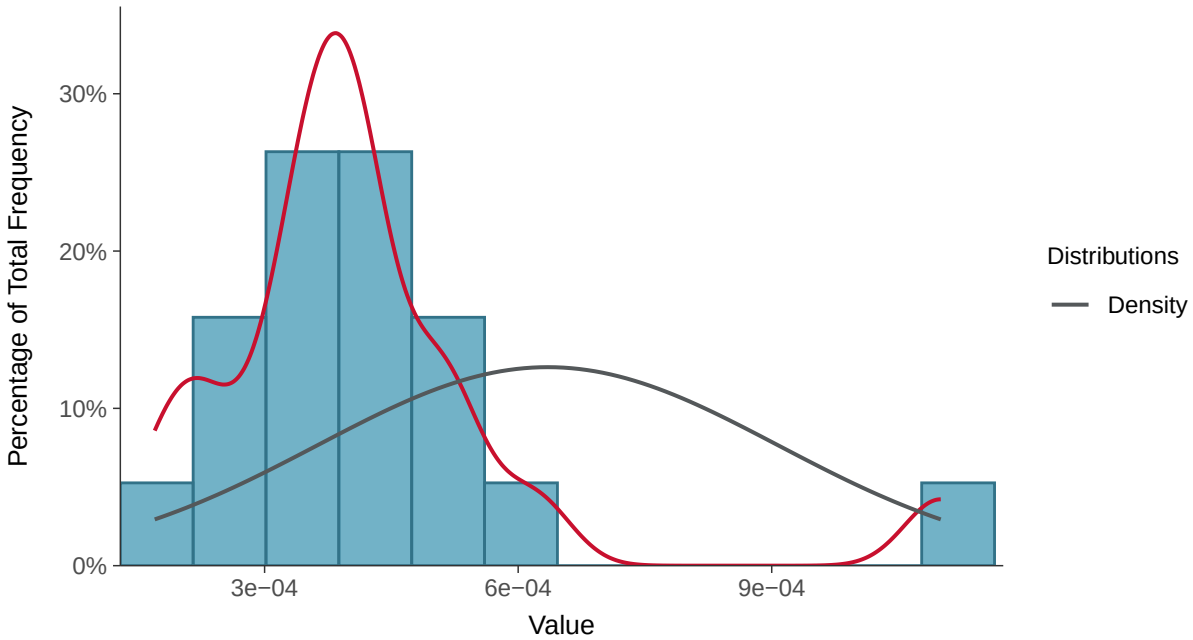
Scatter Plot

Selenium, MW-03 (mg/L)



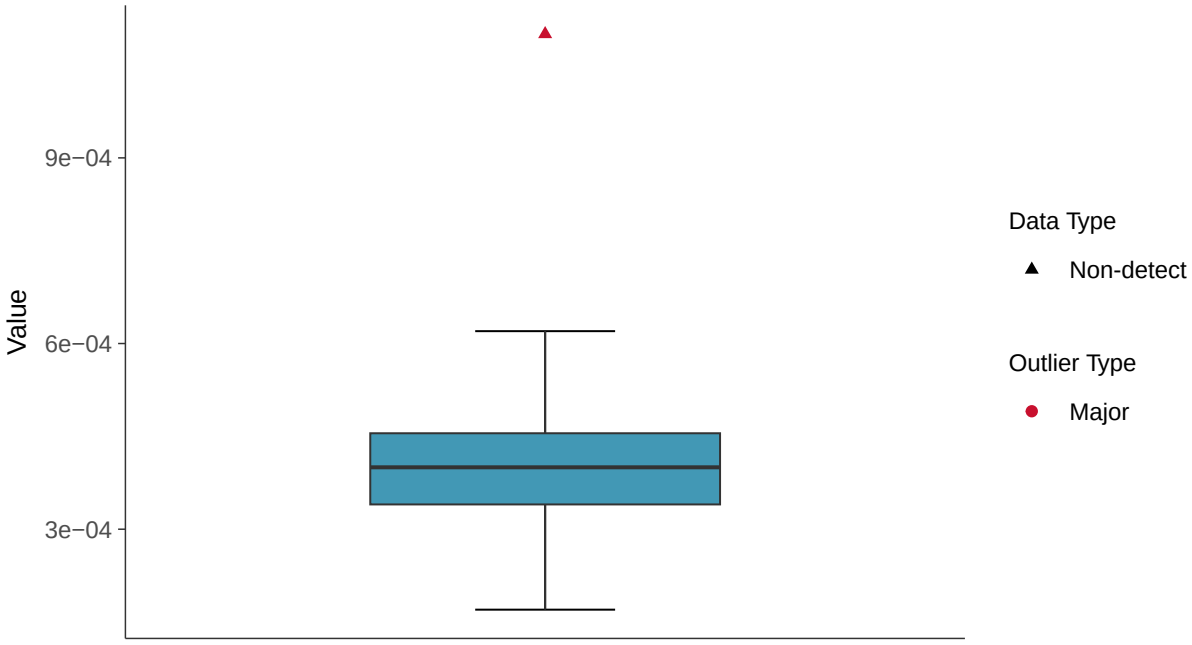
Histogram

Selenium, MW-03 (mg/L)



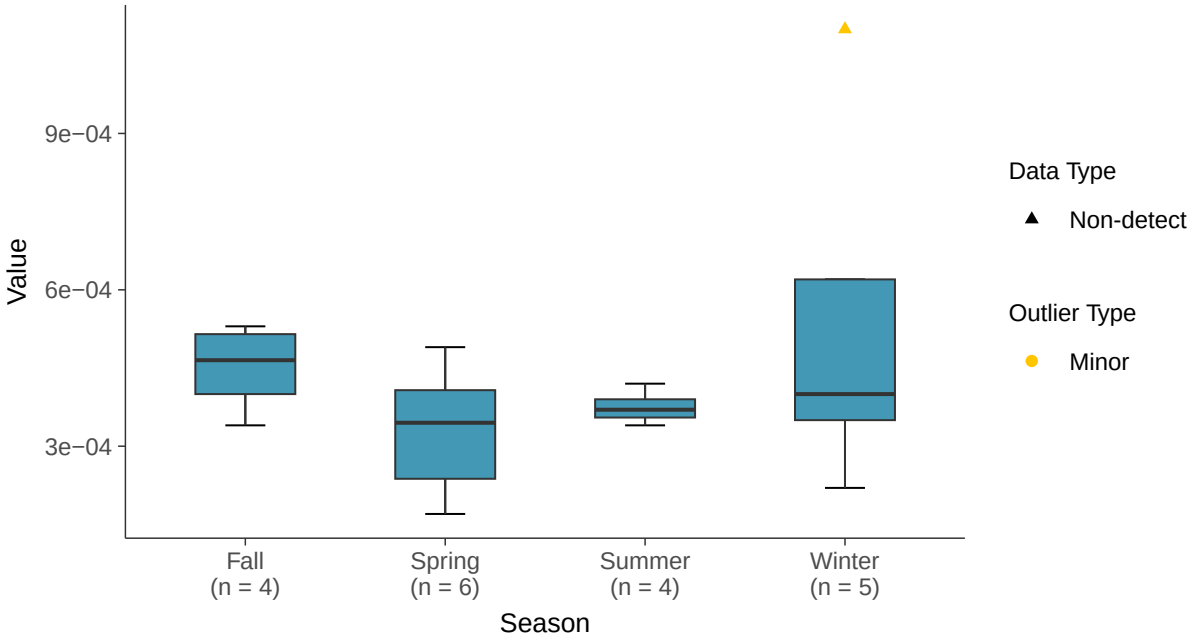
Boxplot

Selenium, MW-03 (mg/L)



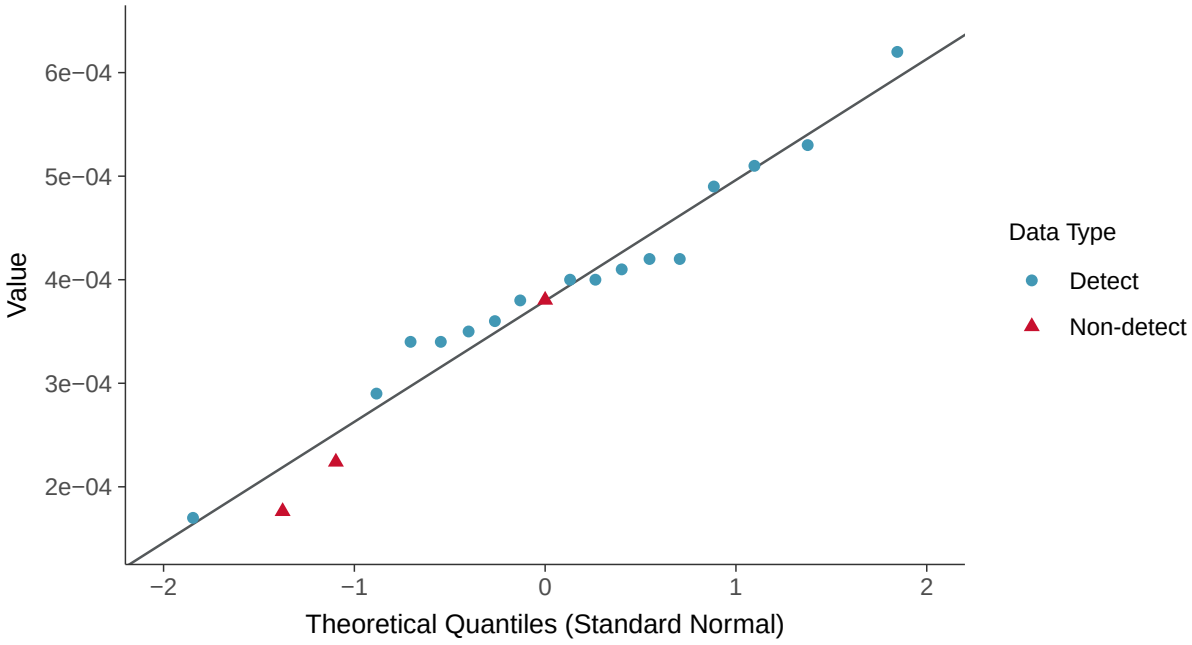
Boxplot by Season

Selenium, MW-03 (mg/L)



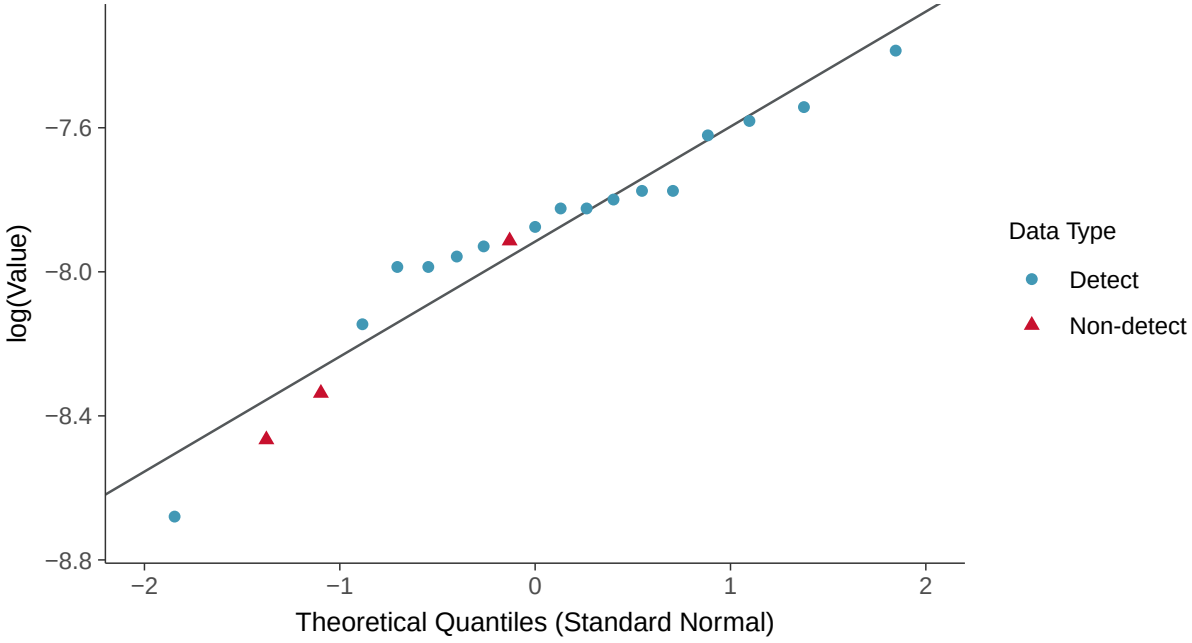
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



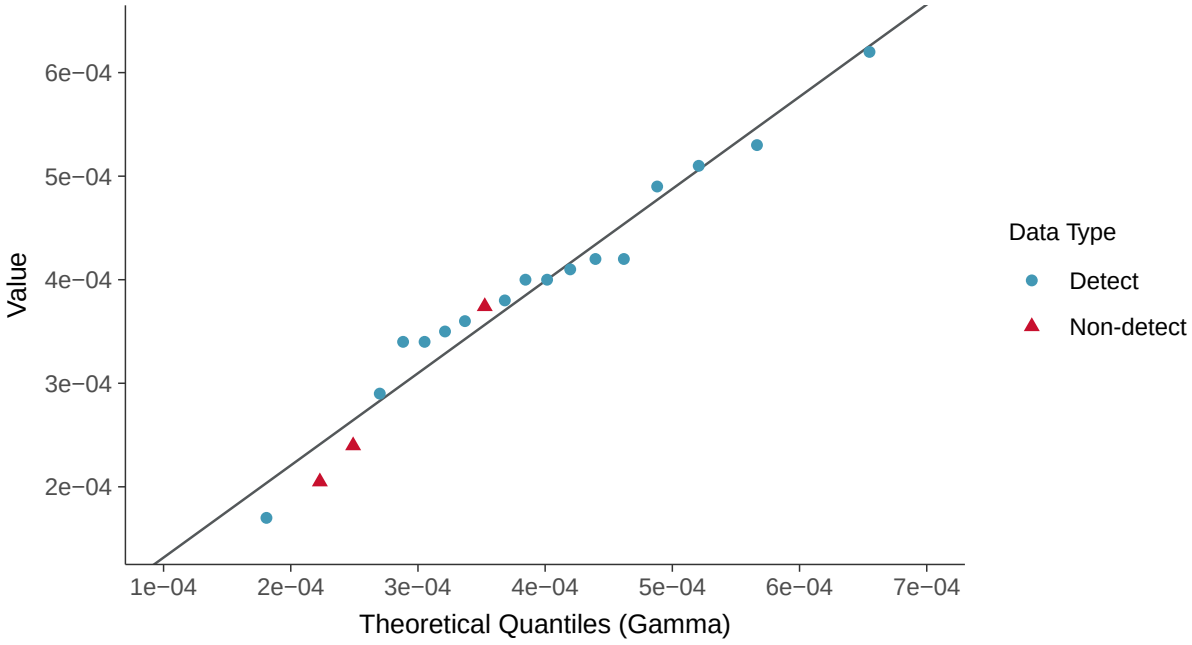
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



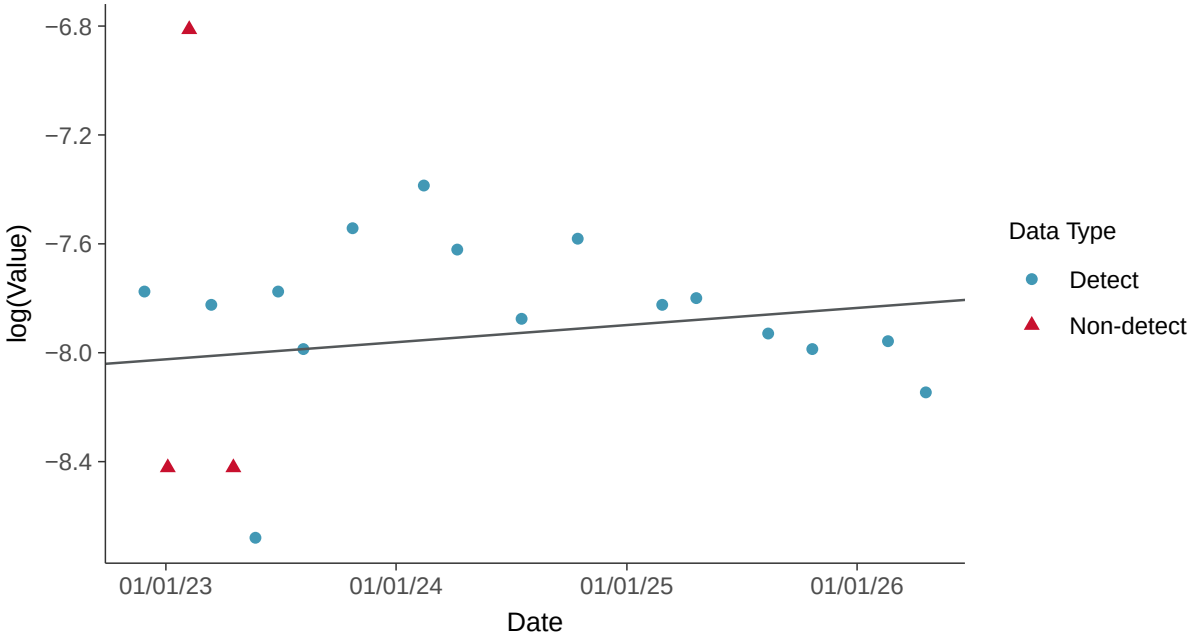
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-03 (mg/L)



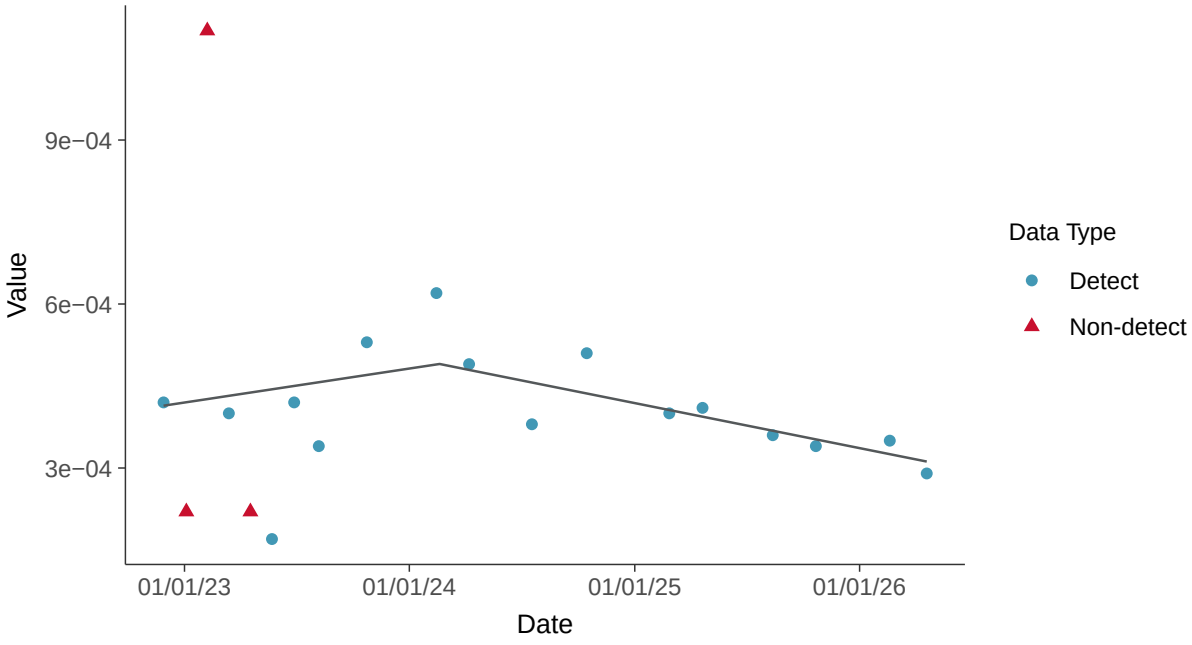
Trend Regression: Lognormal MLE

Selenium, MW-03 (mg/L)



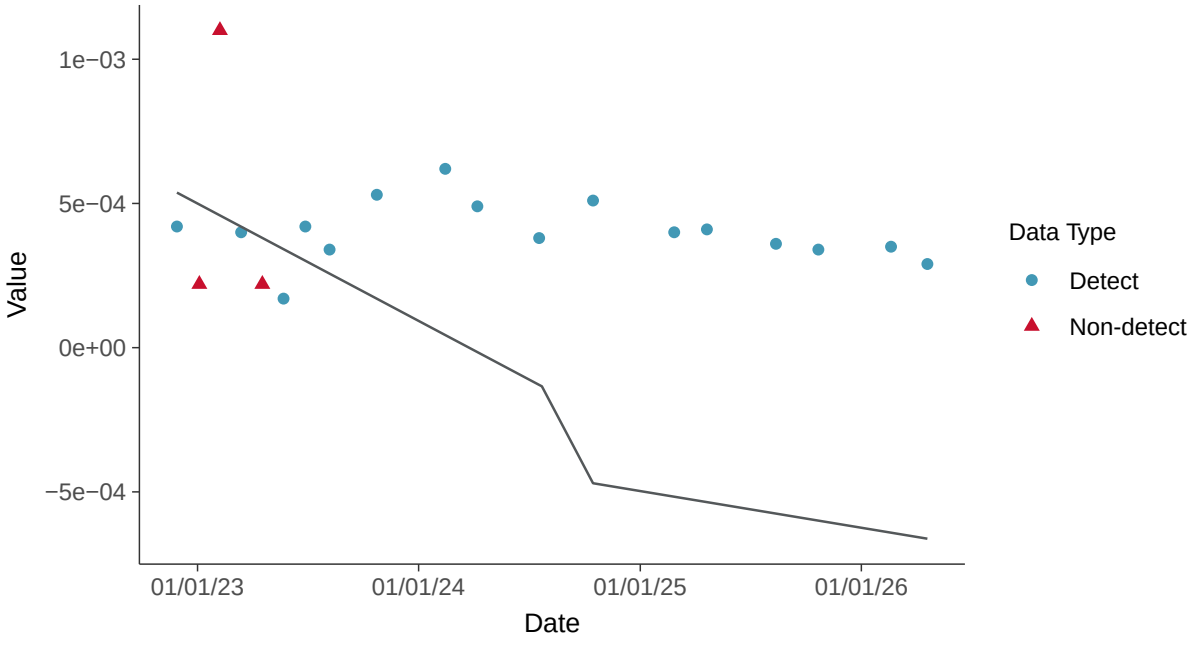
Trend Regression: Piecewise Linear-Linear

Selenium, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-03 (mg/L)

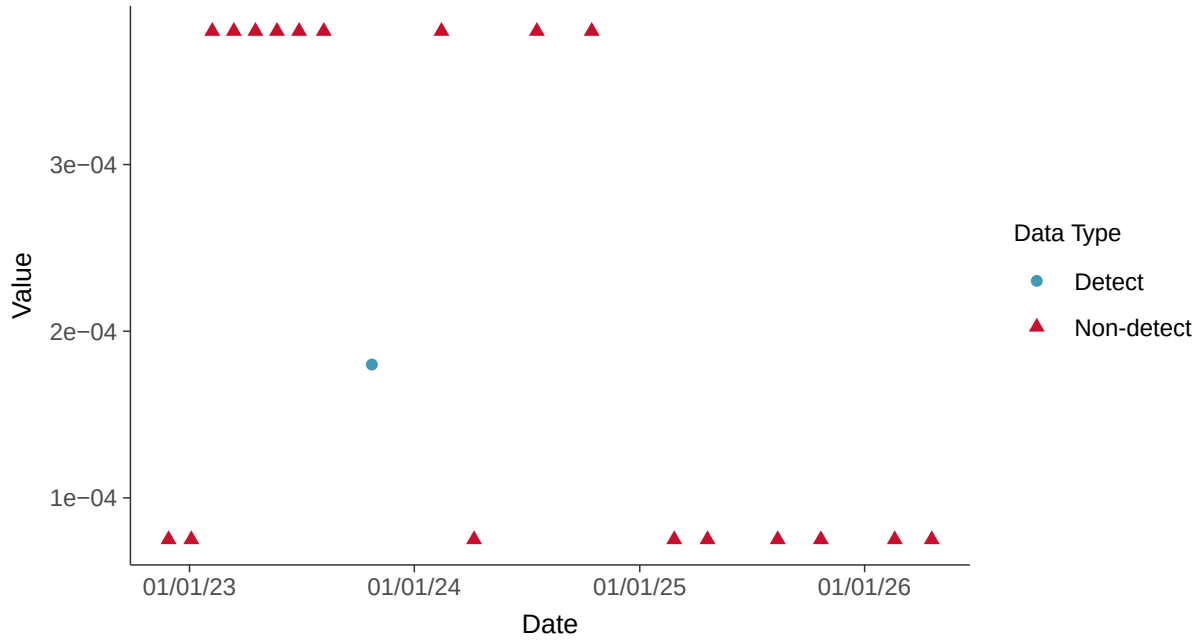


Appendix IV: Thallium, MW-03

ID: 13_2_4_125

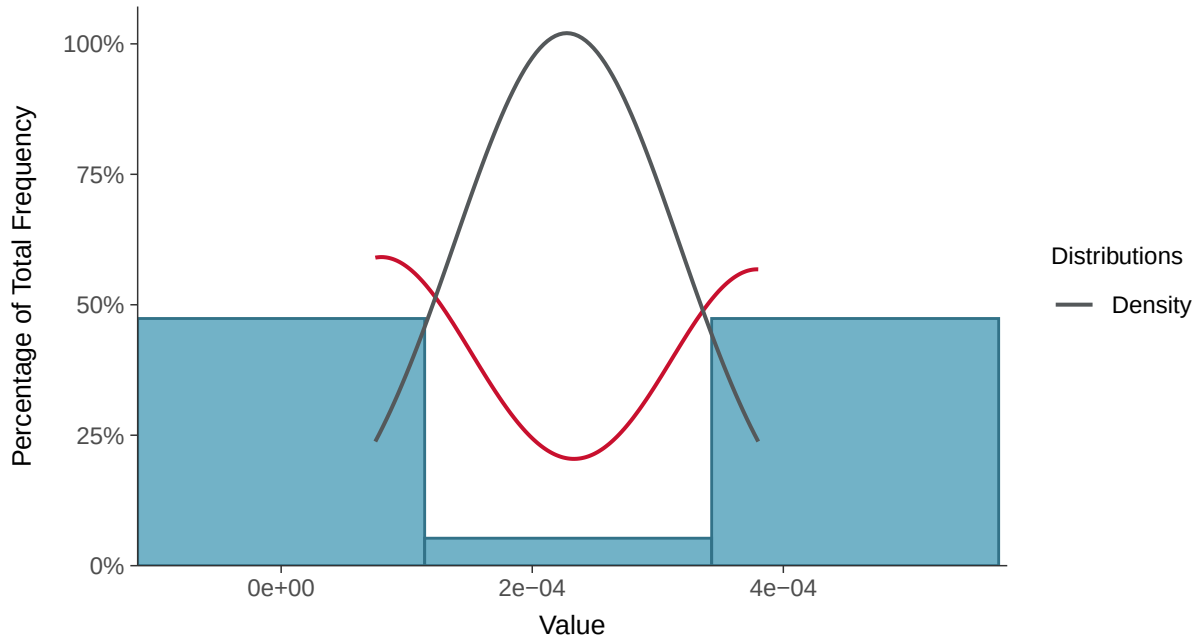
Scatter Plot

Thallium, MW-03 (mg/L)



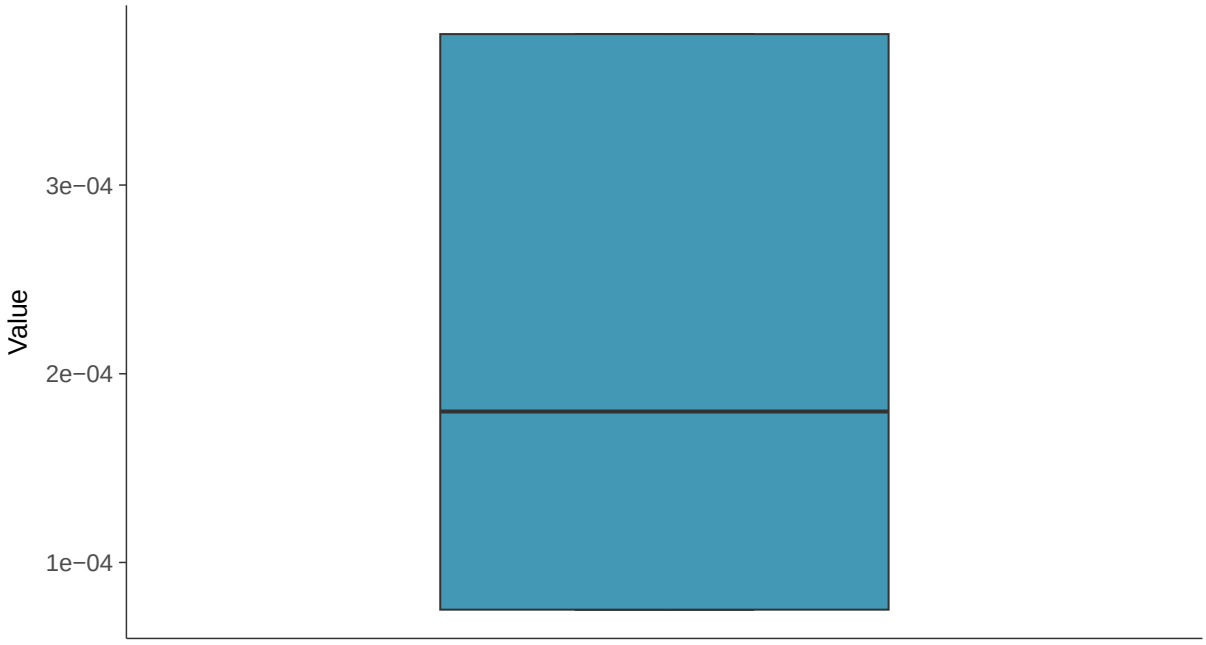
Histogram

Thallium, MW-03 (mg/L)



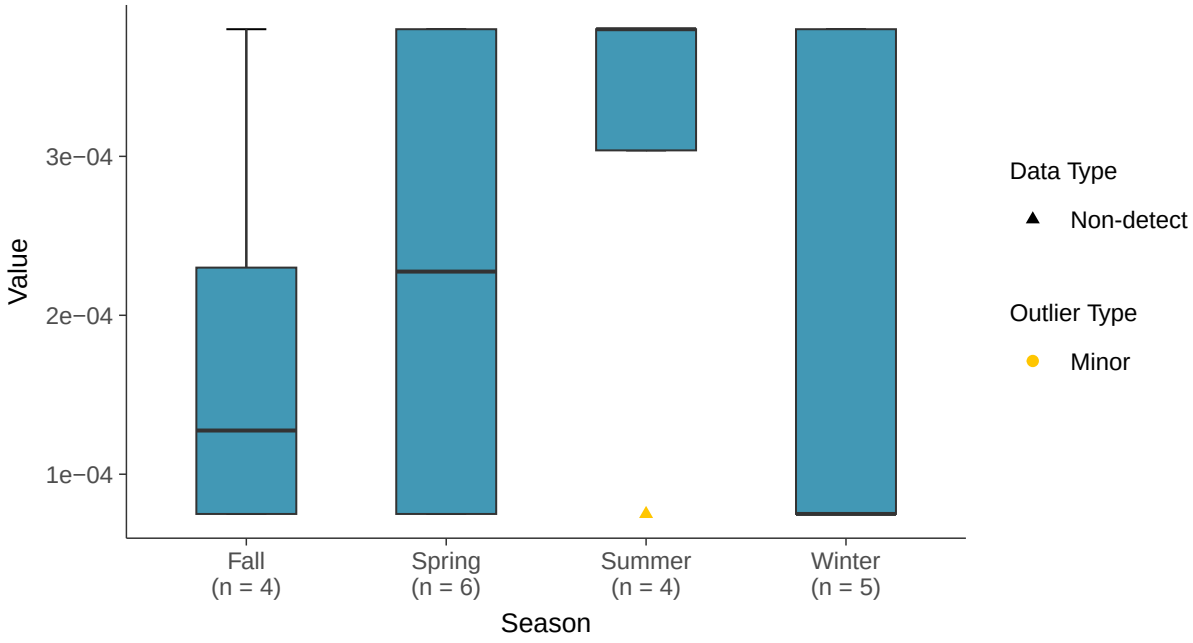
Boxplot

Thallium, MW-03 (mg/L)



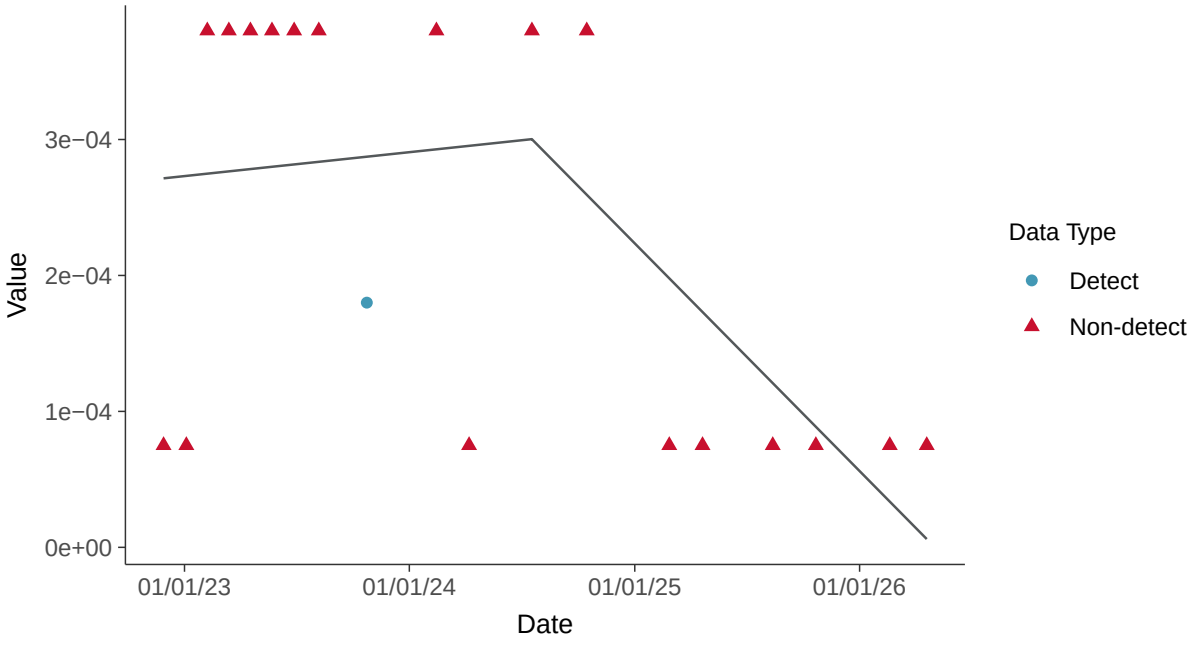
Boxplot by Season

Thallium, MW-03 (mg/L)



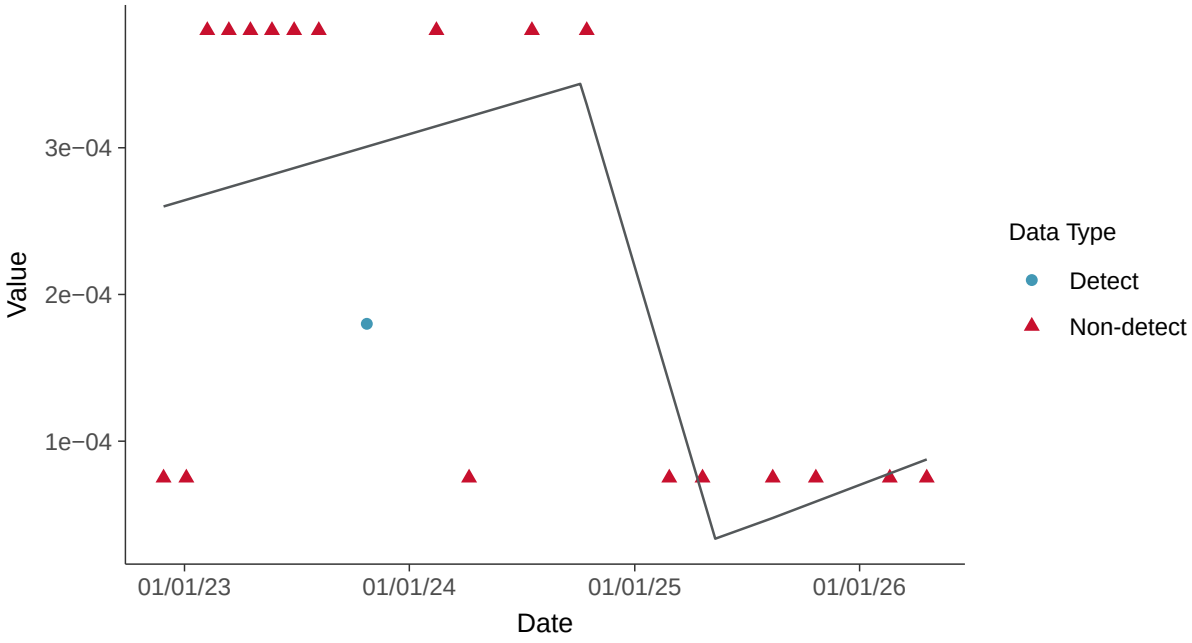
Trend Regression: Piecewise Linear-Linear

Thallium, MW-03 (mg/L)



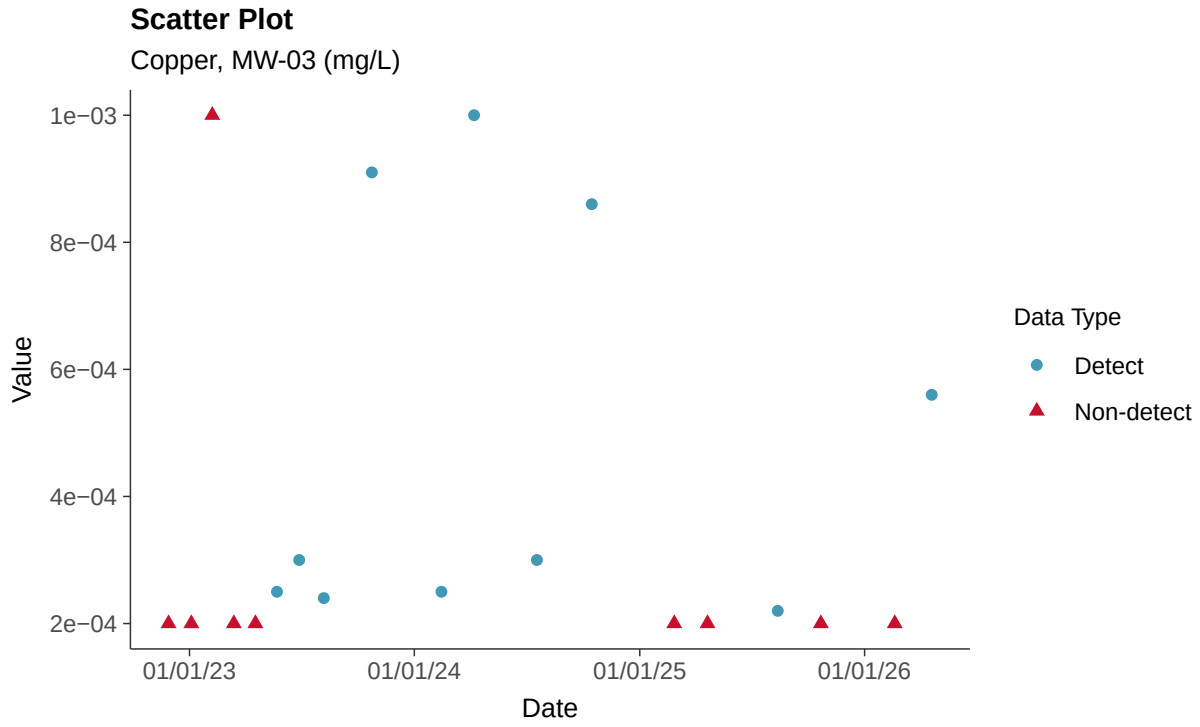
Trend Regression: Piecewise Linear-Linear-Linear

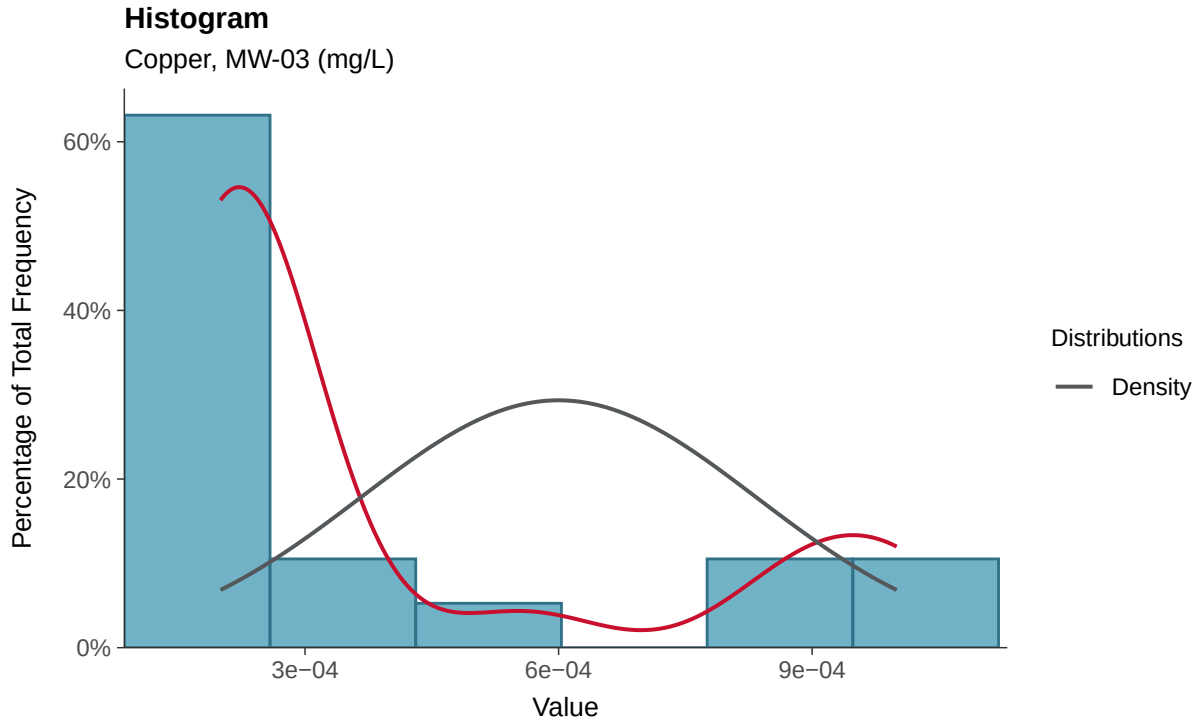
Thallium, MW-03 (mg/L)



Part 115: Copper, MW-03

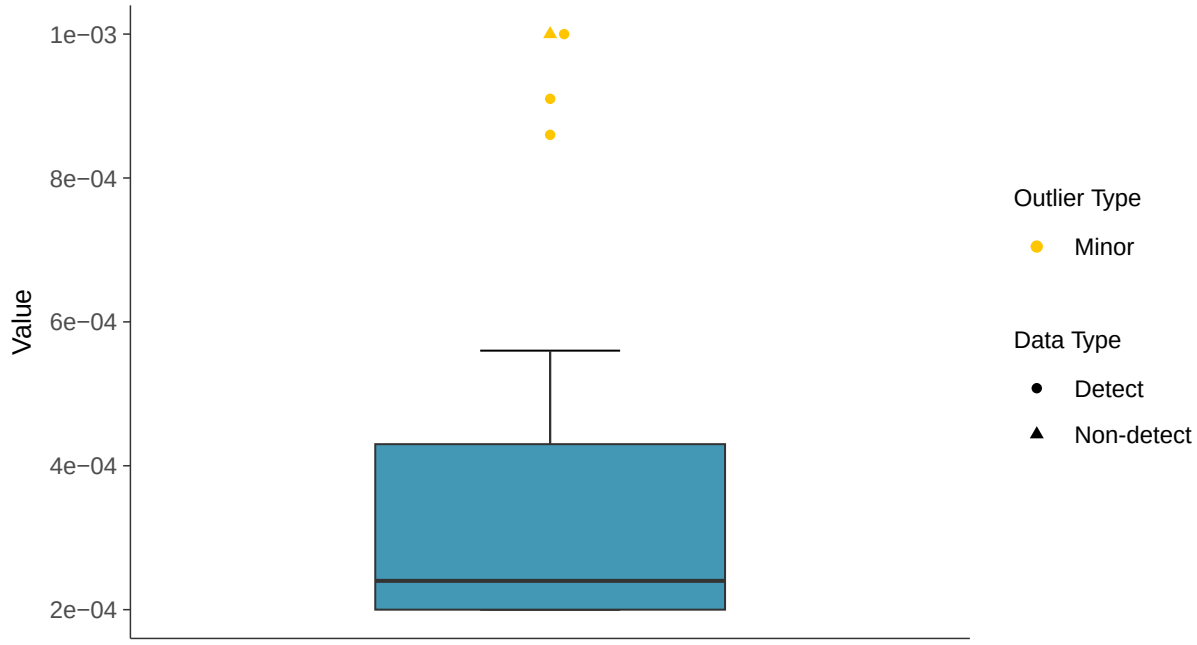
ID: 13_2_5_111





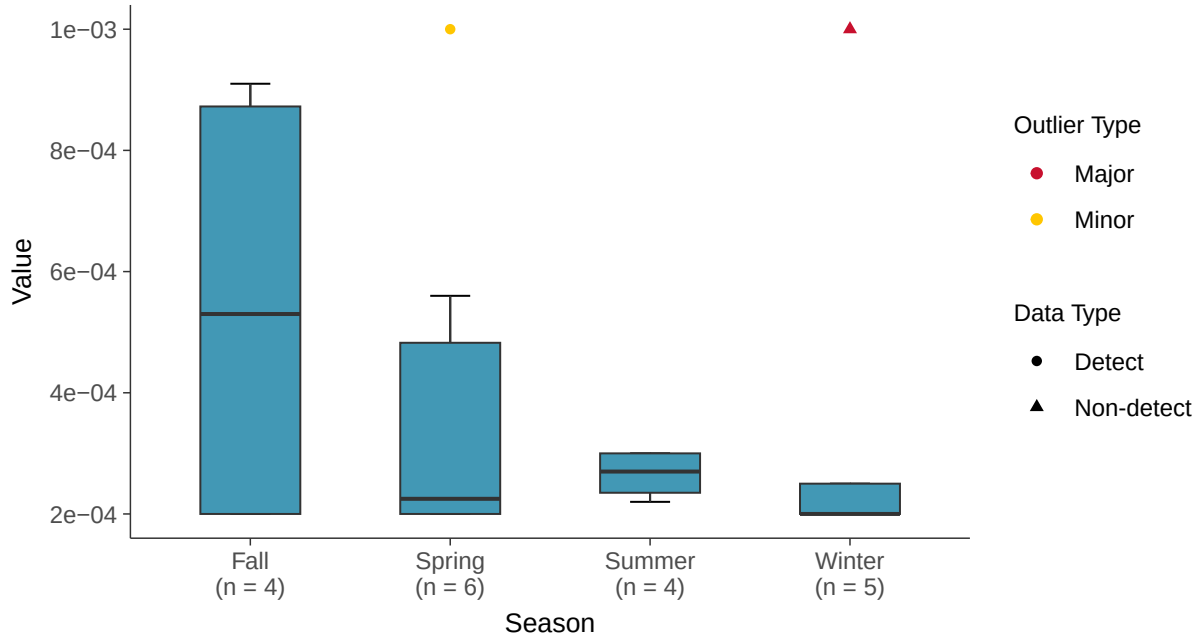
Boxplot

Copper, MW-03 (mg/L)



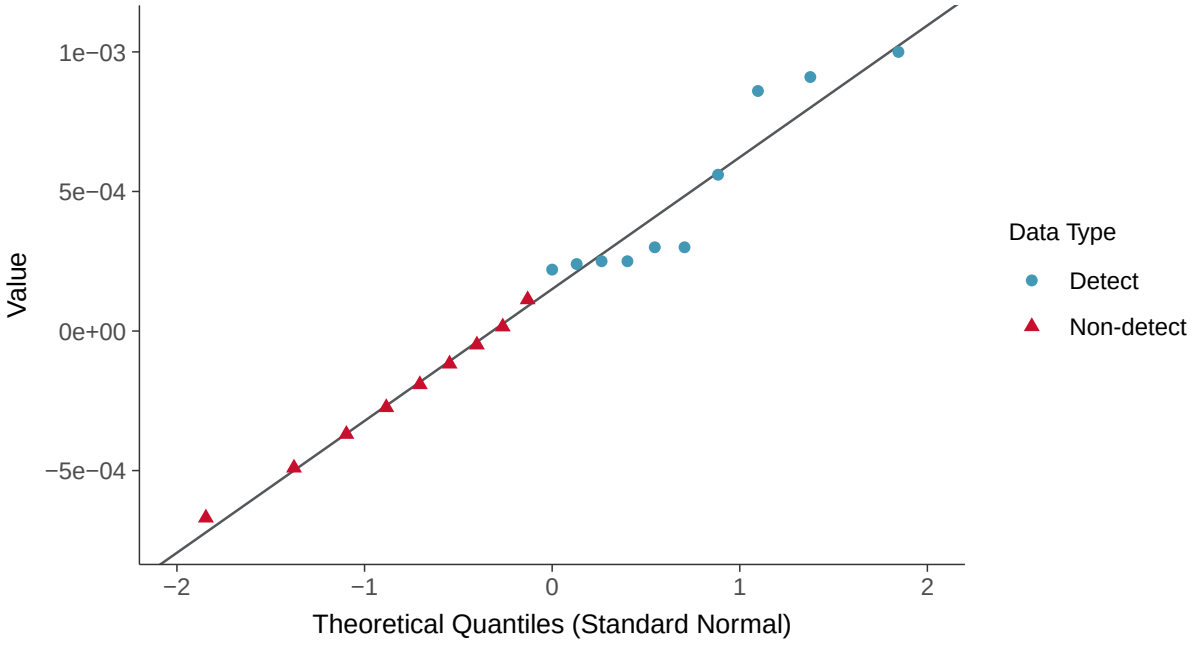
Boxplot by Season

Copper, MW-03 (mg/L)



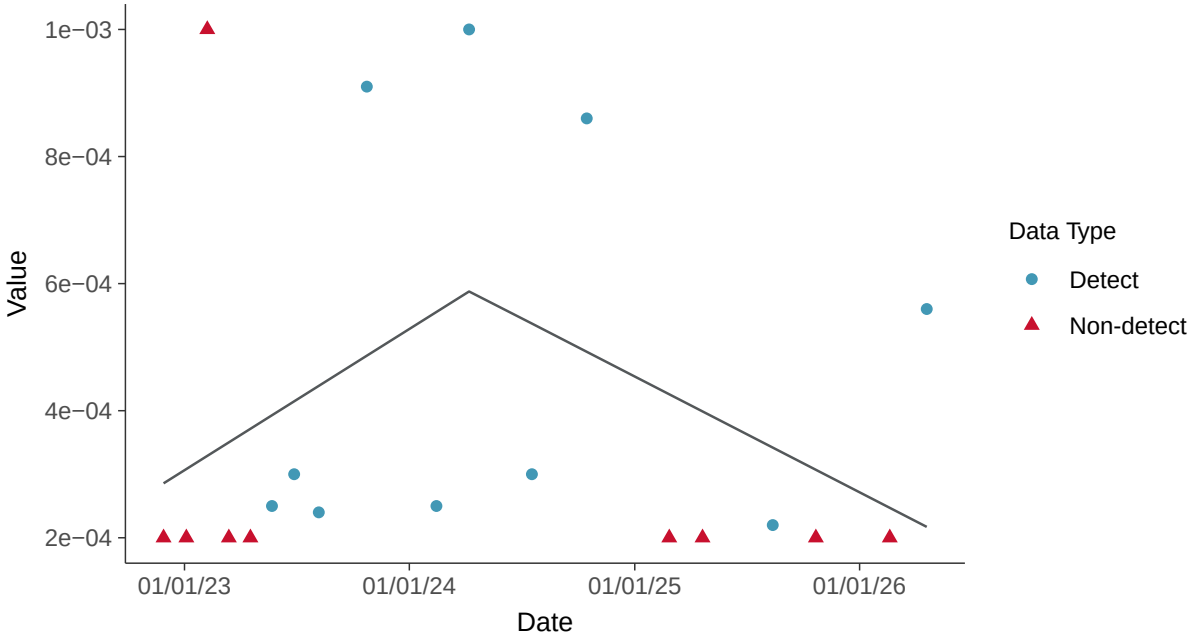
Normal Q-Q plot using ROS Imputed Estimates

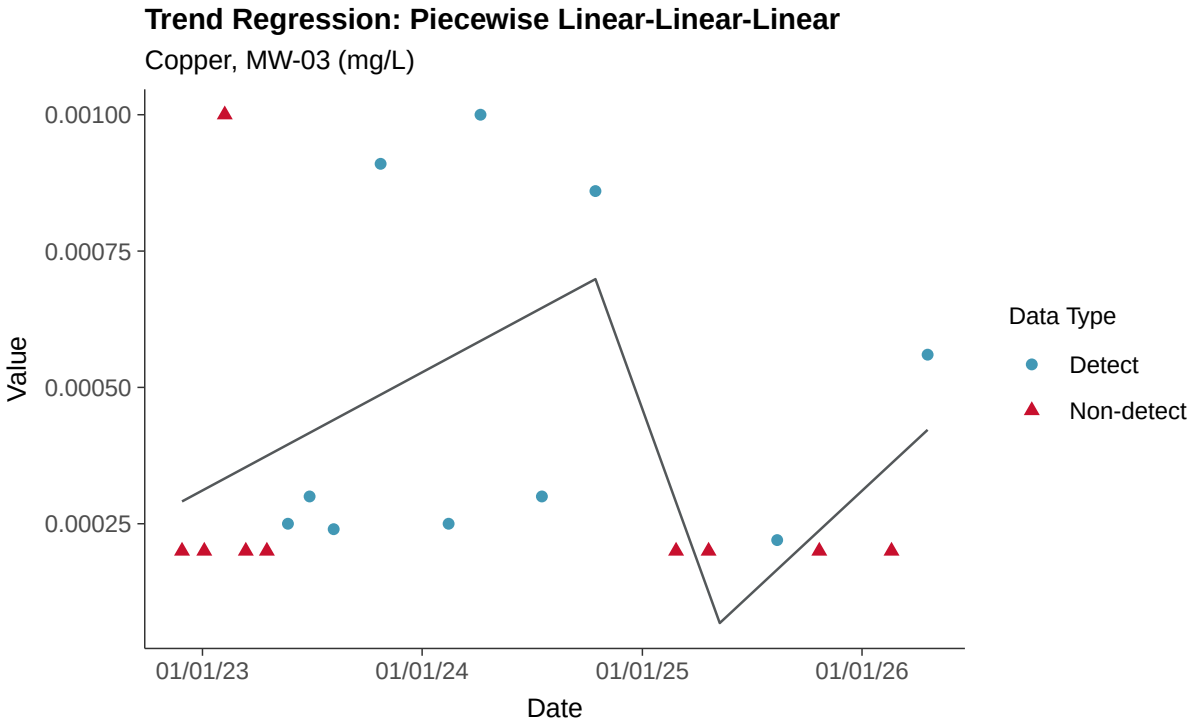
Copper, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-03 (mg/L)



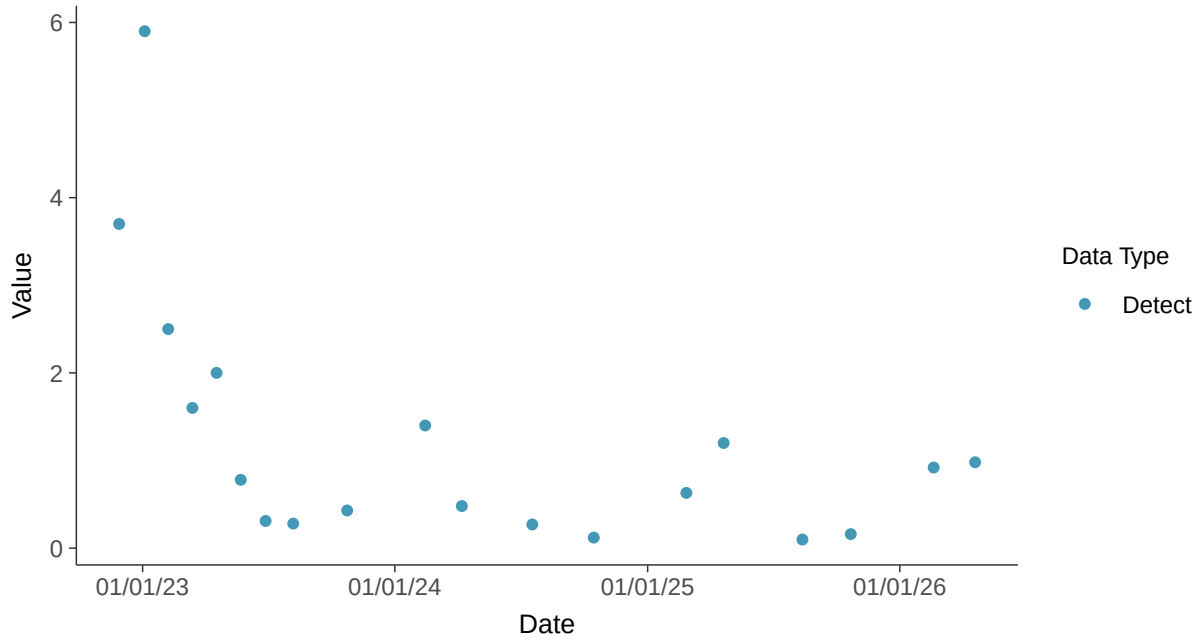

Trend Regression: Piecewise Linear-Linear-Linear
Copper, MW-03 (mg/L)
0.00100
0.00075
0.00050
0.00025
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Iron, MW-03

ID: 13_2_5_114

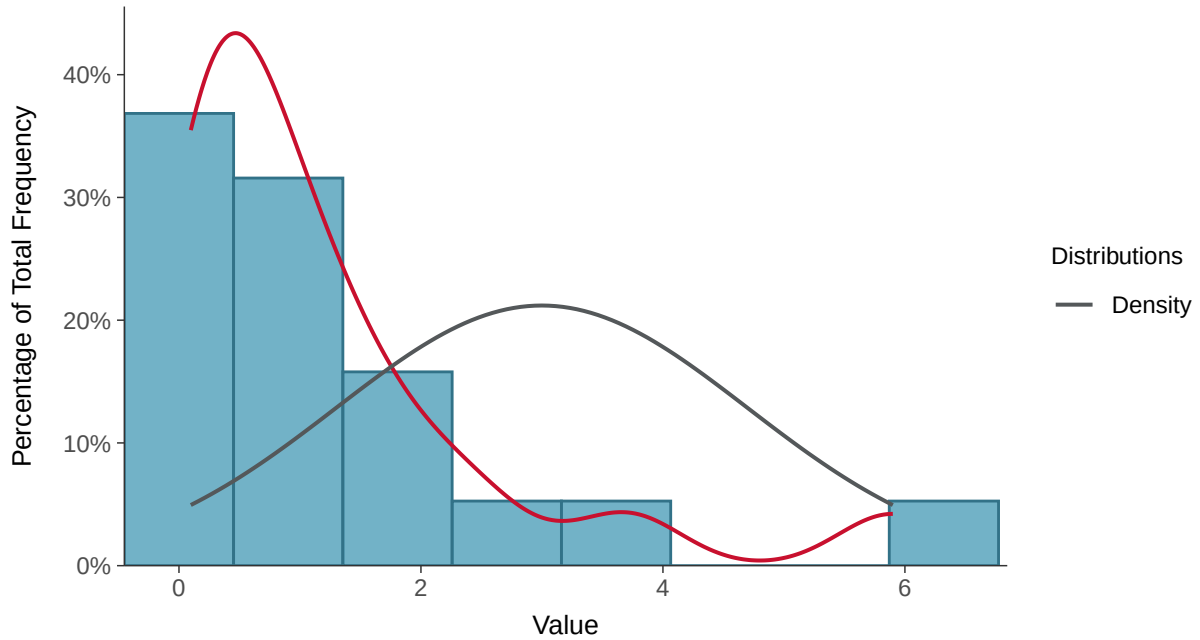
Scatter Plot

Iron, MW-03 (mg/L)



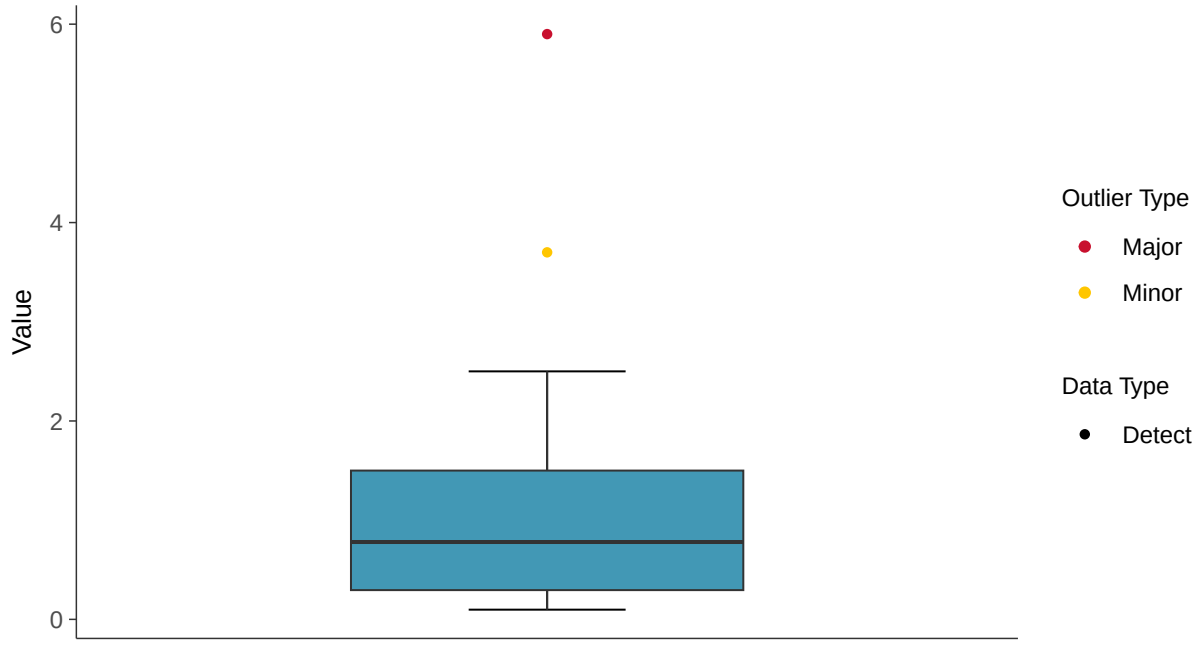
Histogram

Iron, MW-03 (mg/L)



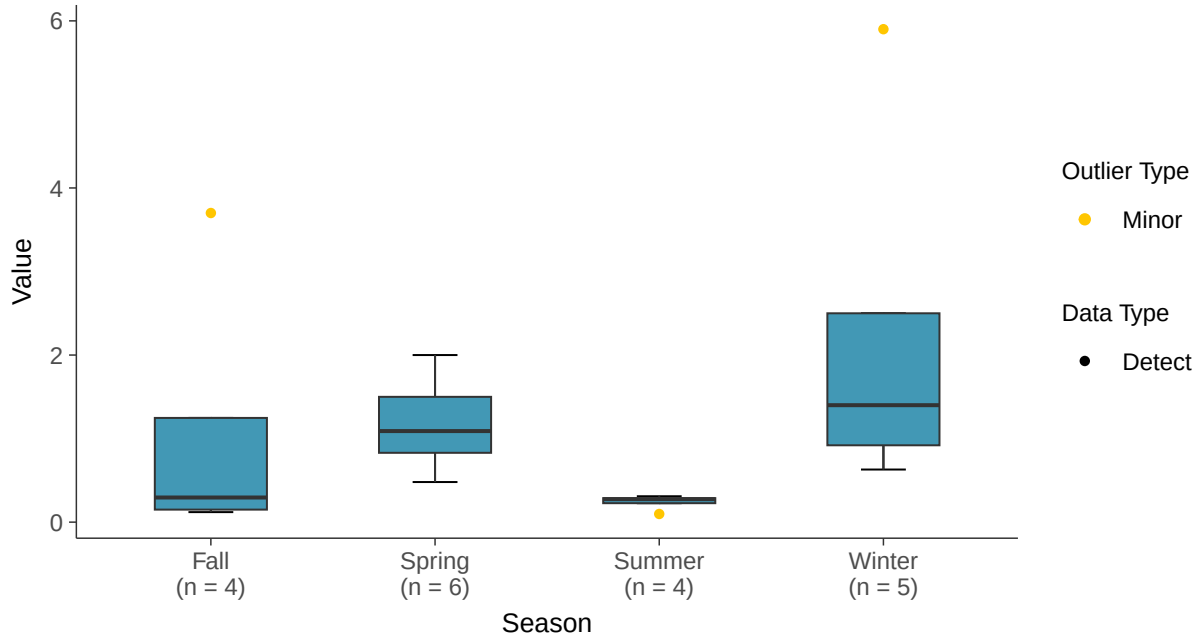
Boxplot

Iron, MW-03 (mg/L)



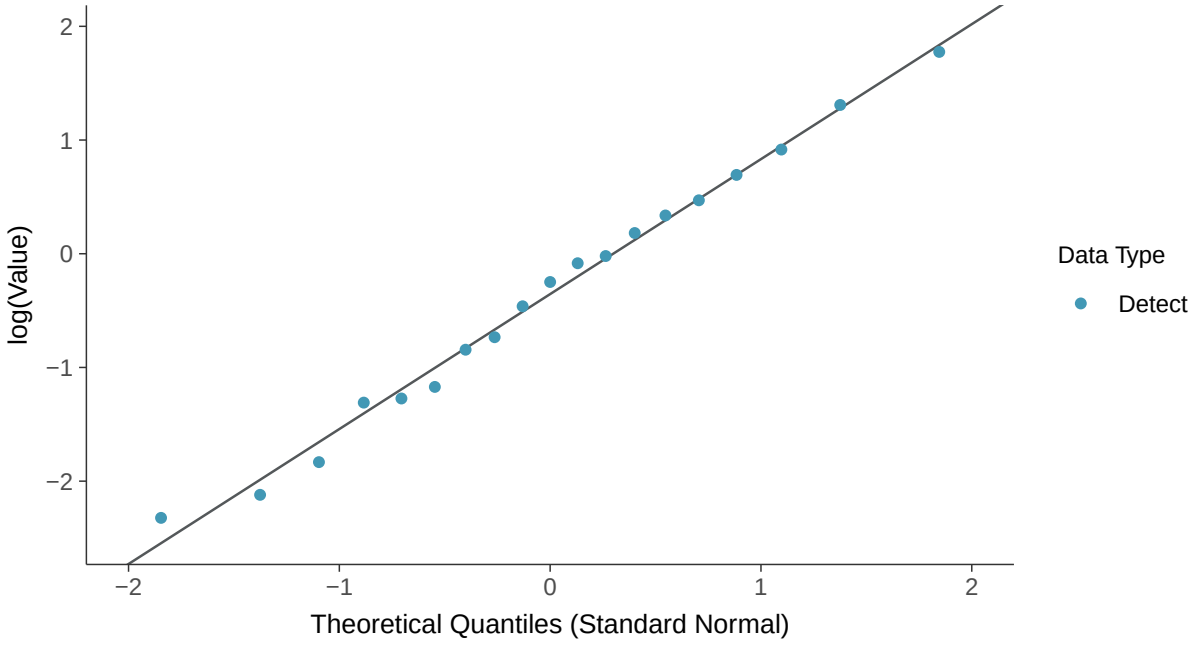
Boxplot by Season

Iron, MW-03 (mg/L)



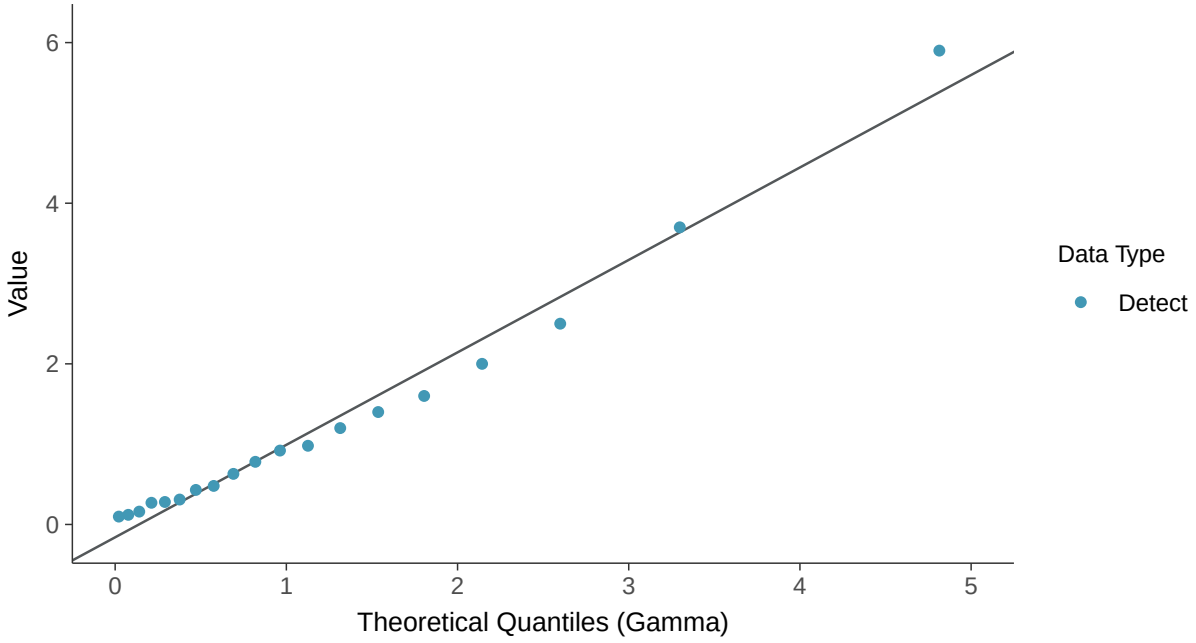
Lognormal Q-Q plot

Iron, MW-03 (mg/L)



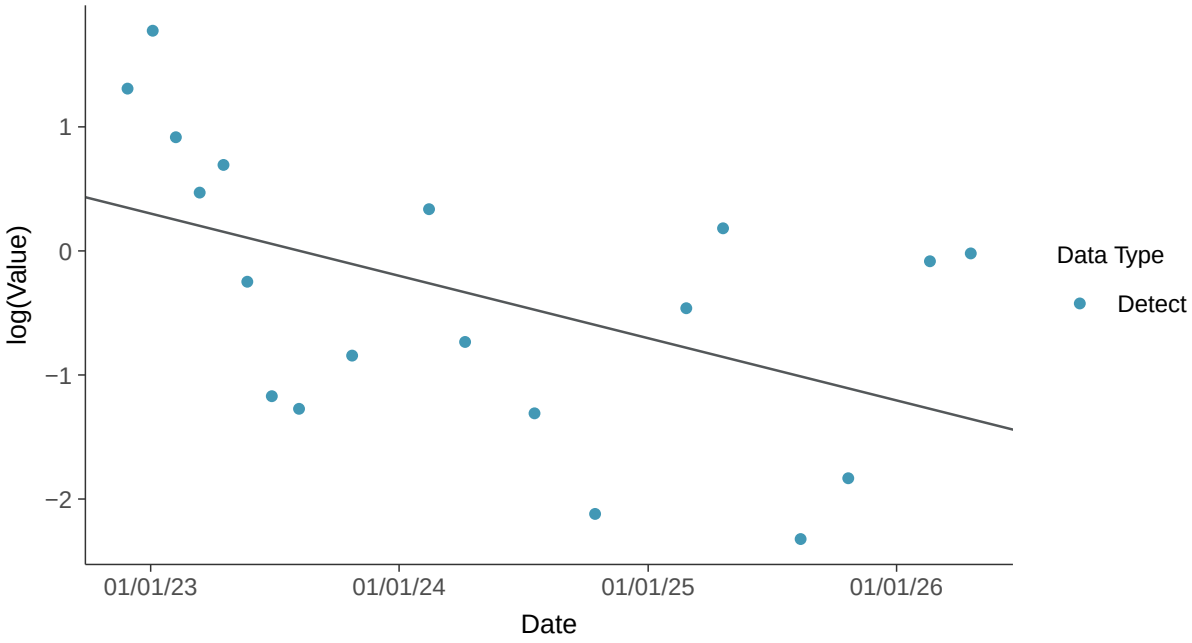
Gamma Q-Q plot

Iron, MW-03 (mg/L)



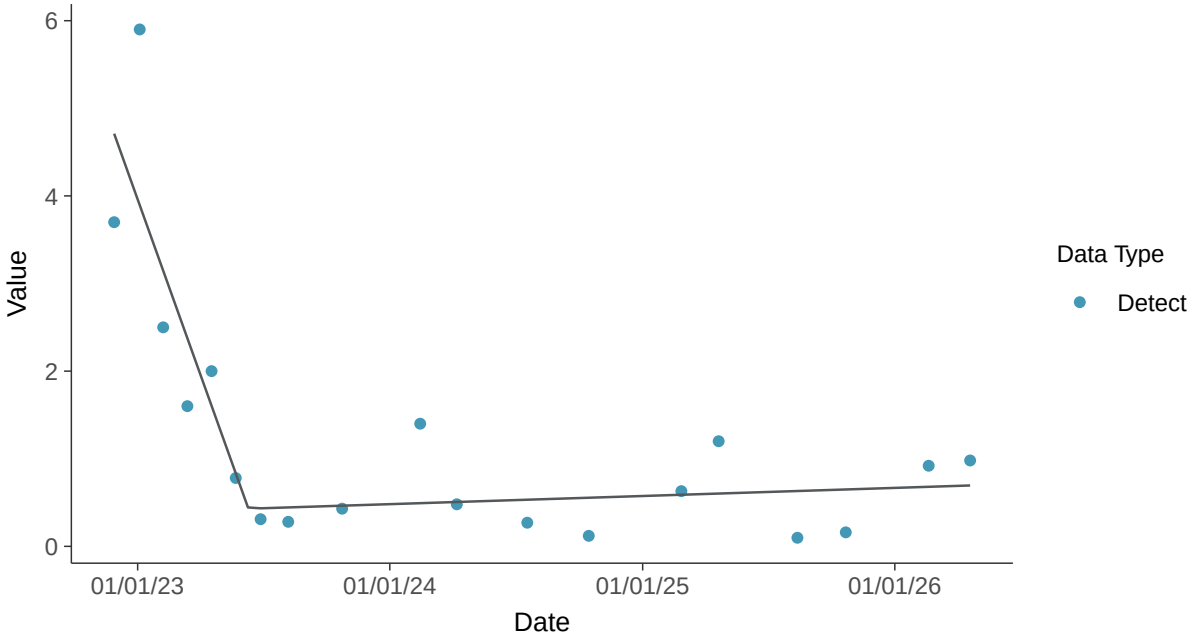
Trend Regression: Lognormal MLE

Iron, MW-03 (mg/L)



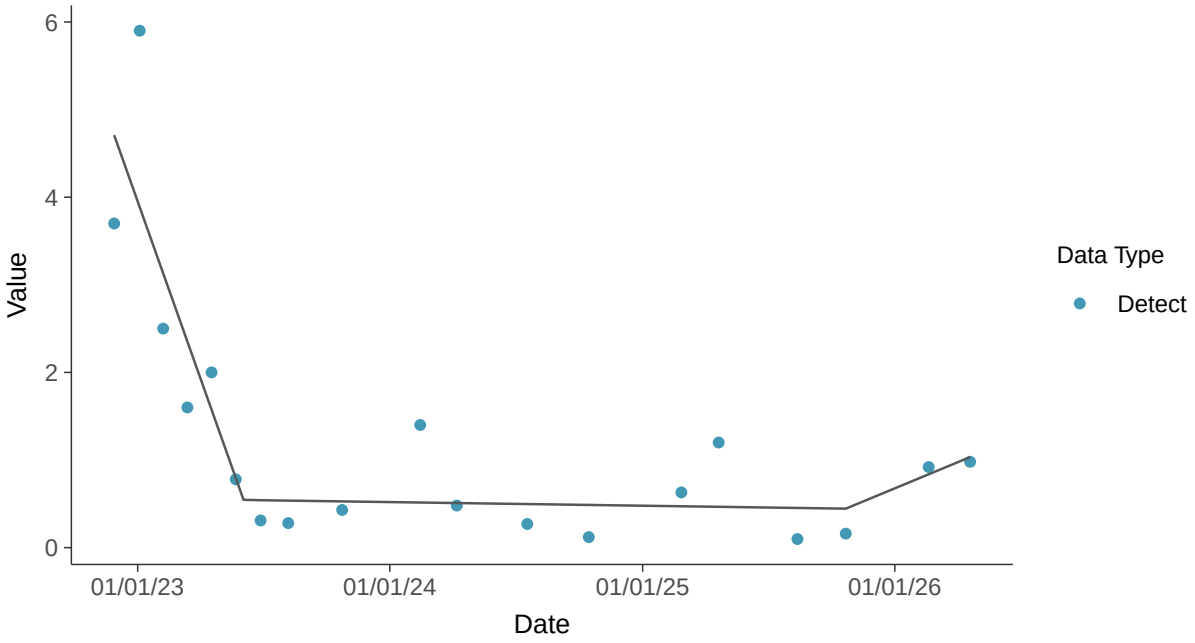
Trend Regression: Piecewise Linear-Linear

Iron, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-03 (mg/L)

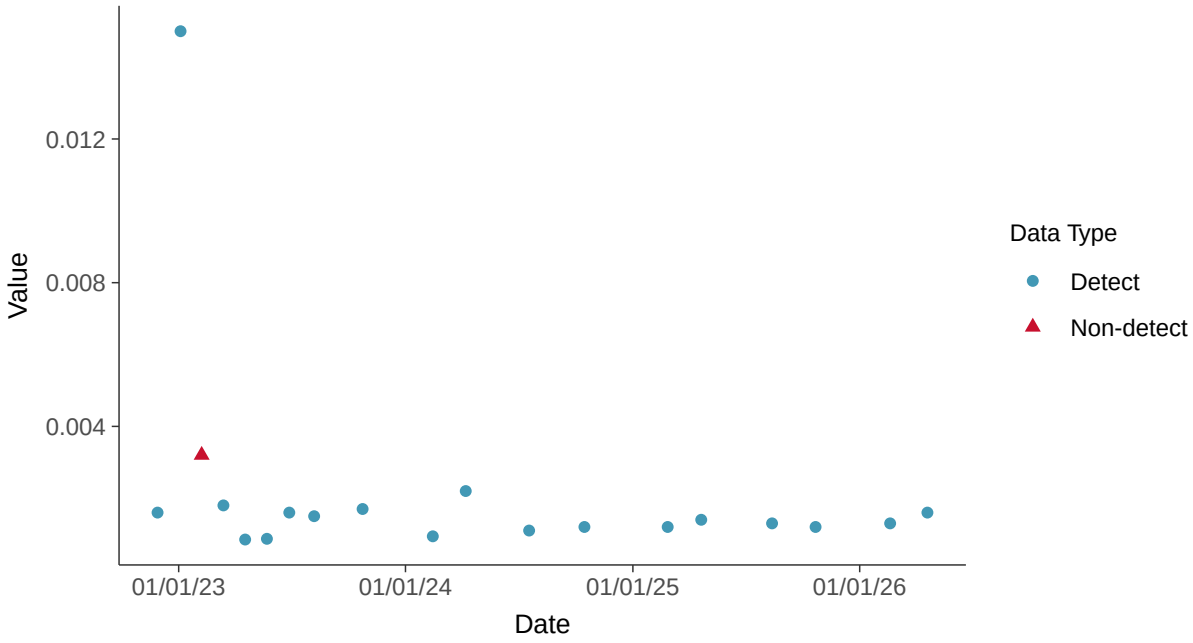


Part 115: Nickel, MW-03

ID: 13_2_5_119

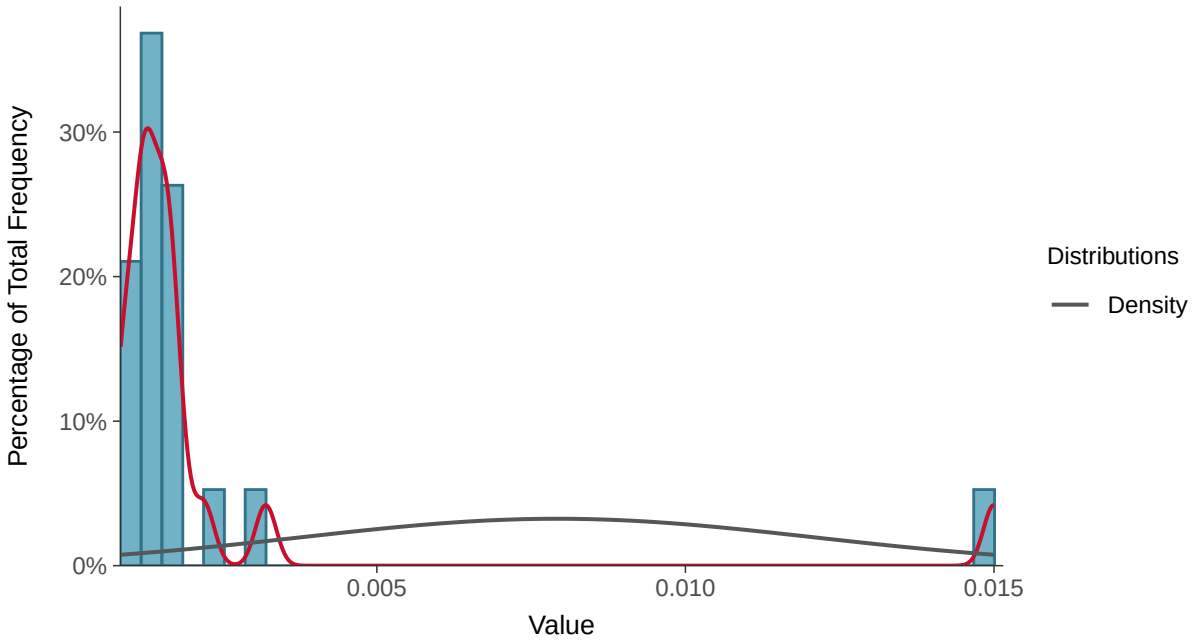
Scatter Plot

Nickel, MW-03 (mg/L)



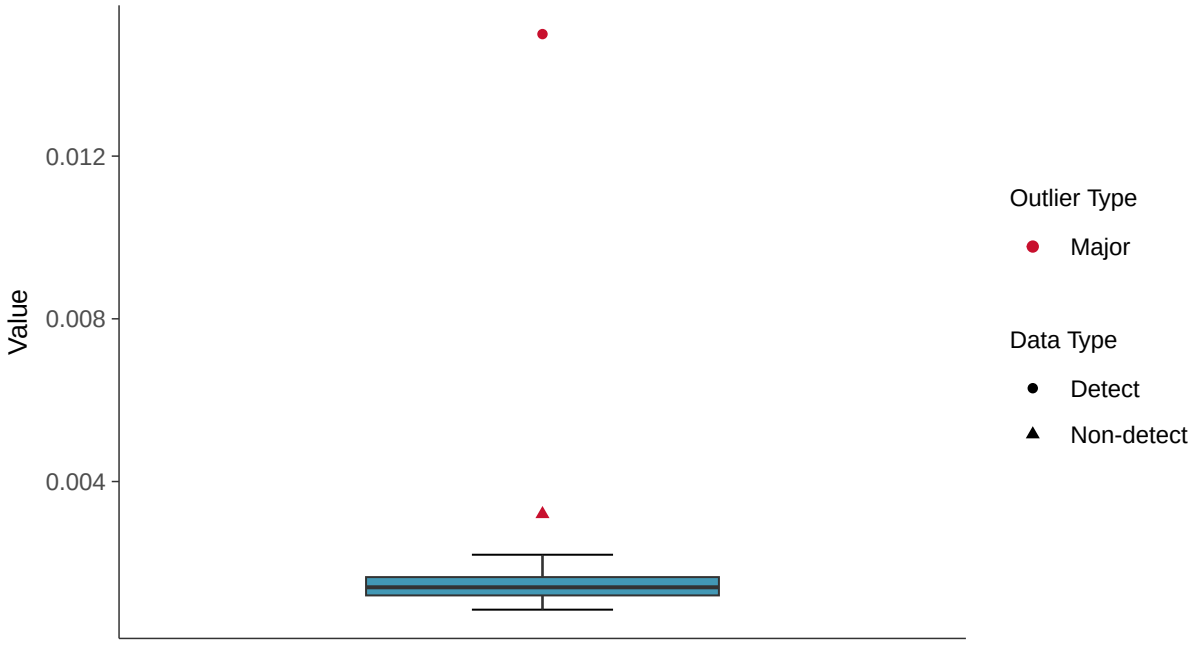
Histogram

Nickel, MW-03 (mg/L)



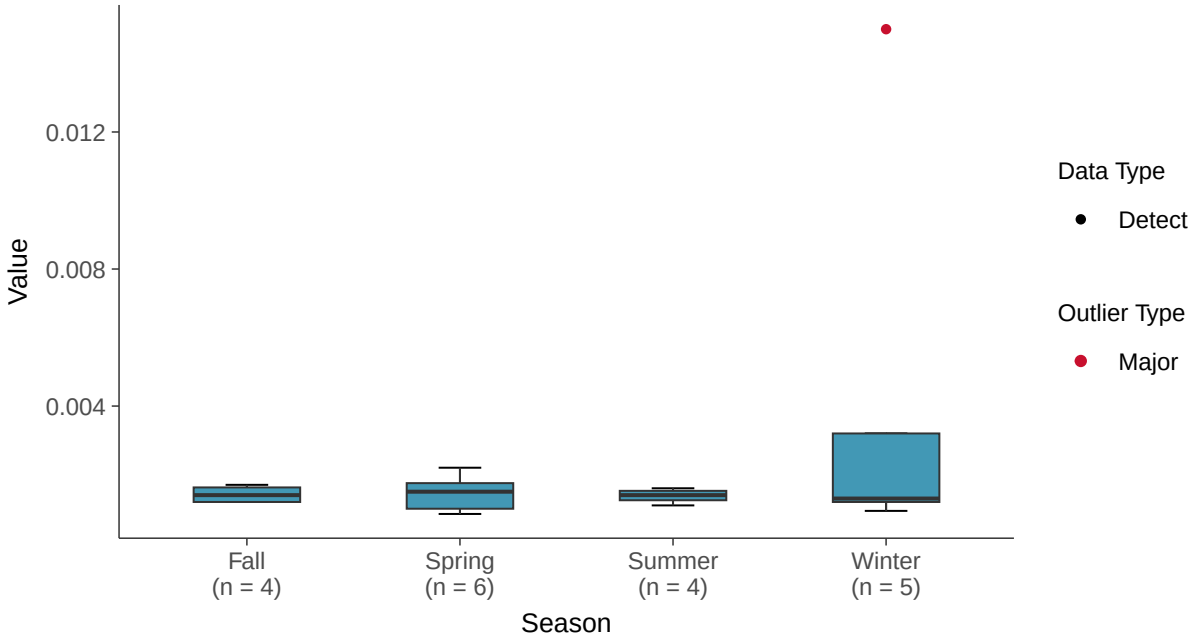
Boxplot

Nickel, MW-03 (mg/L)



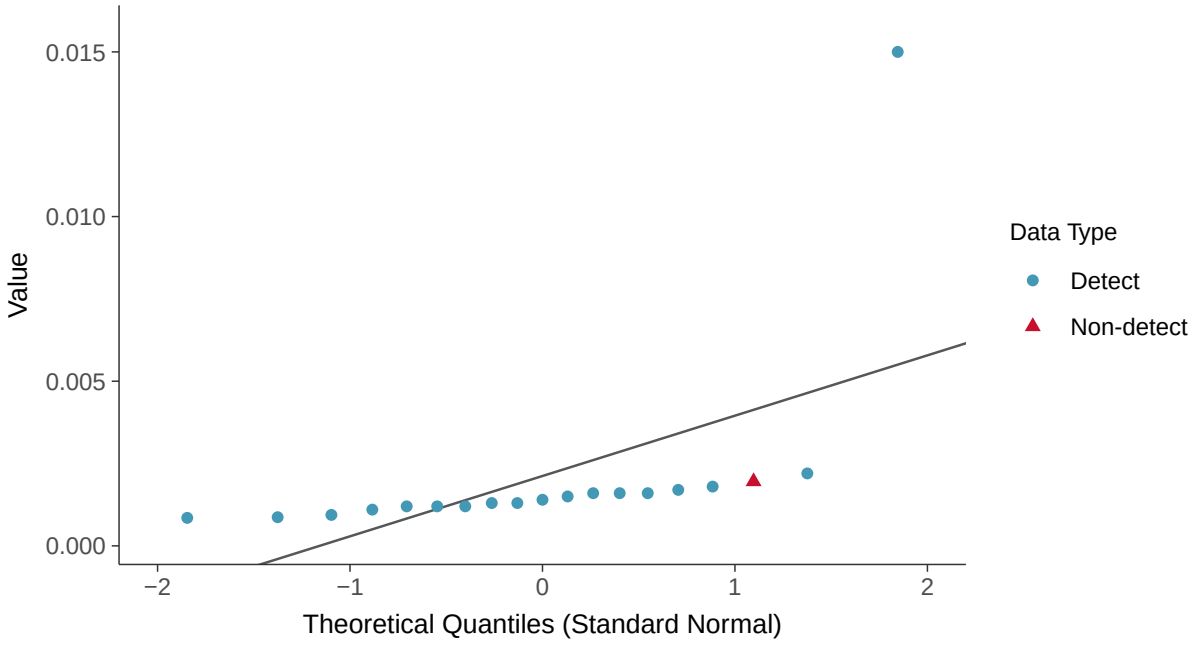
Boxplot by Season

Nickel, MW-03 (mg/L)



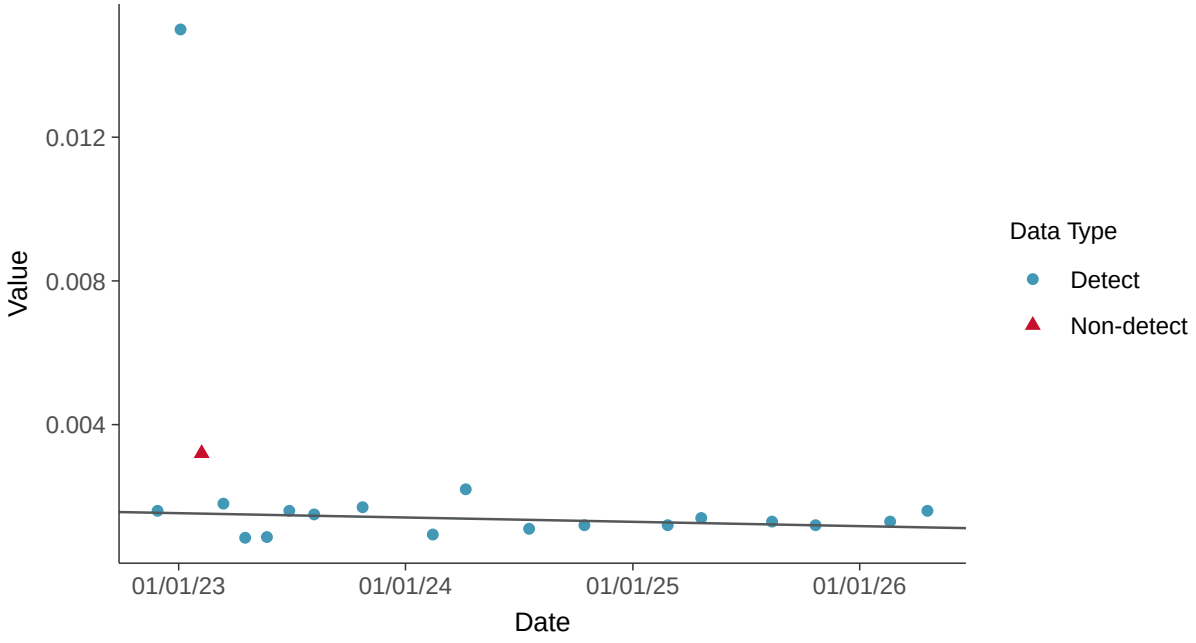
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-03 (mg/L)



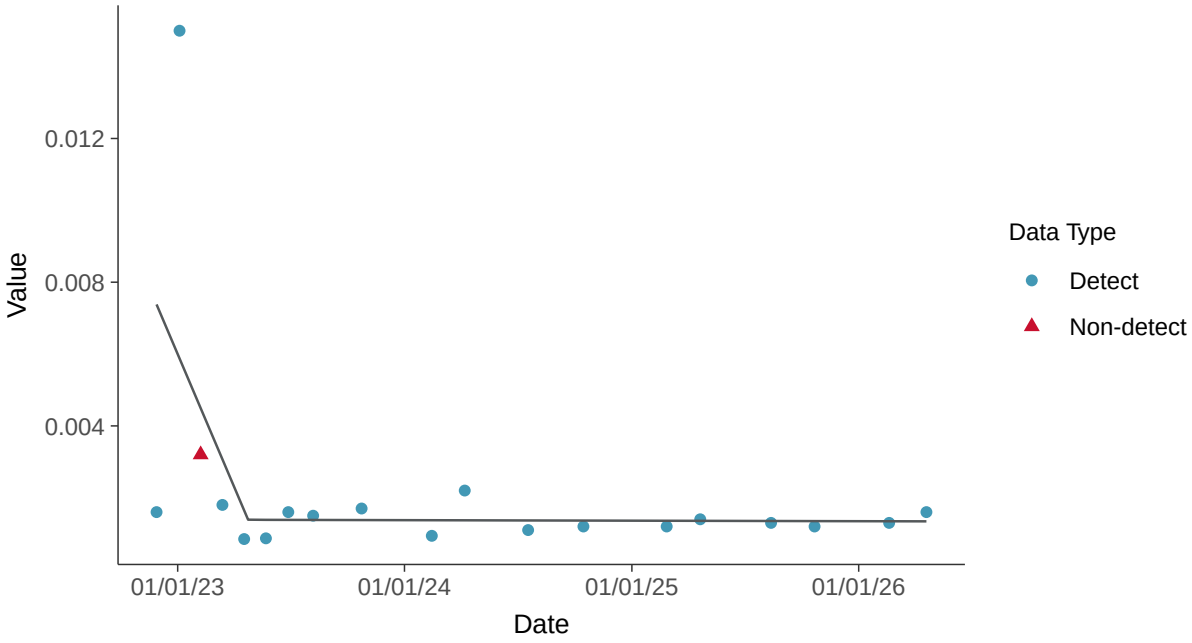
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-03 (mg/L)



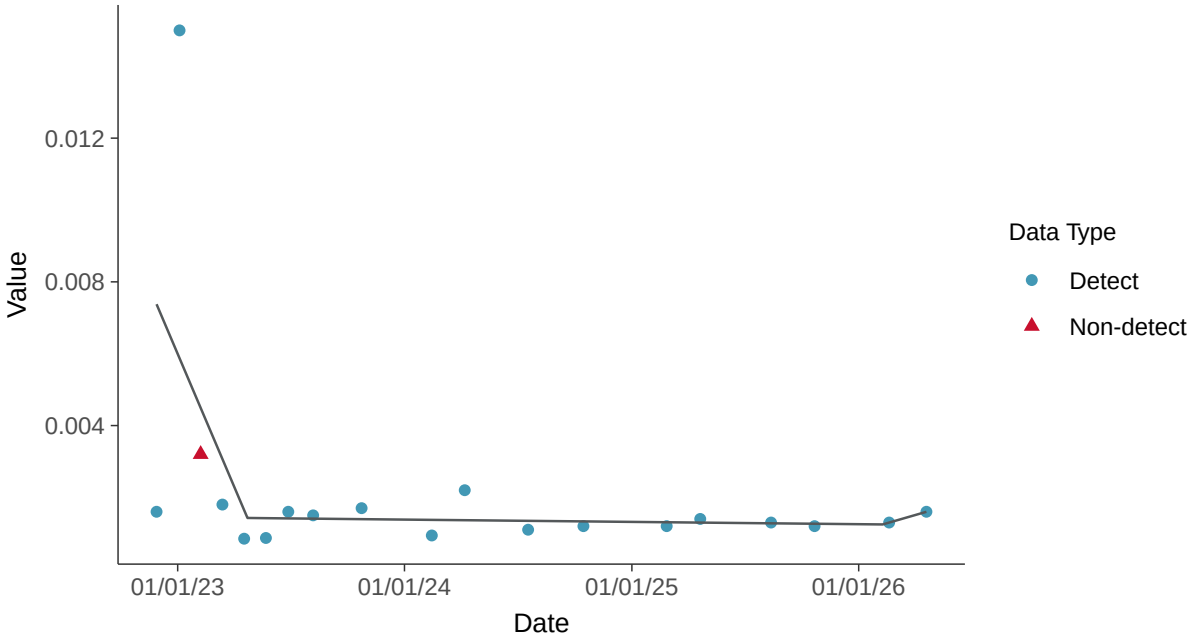
Trend Regression: Piecewise Linear-Linear

Nickel, MW-03 (mg/L)



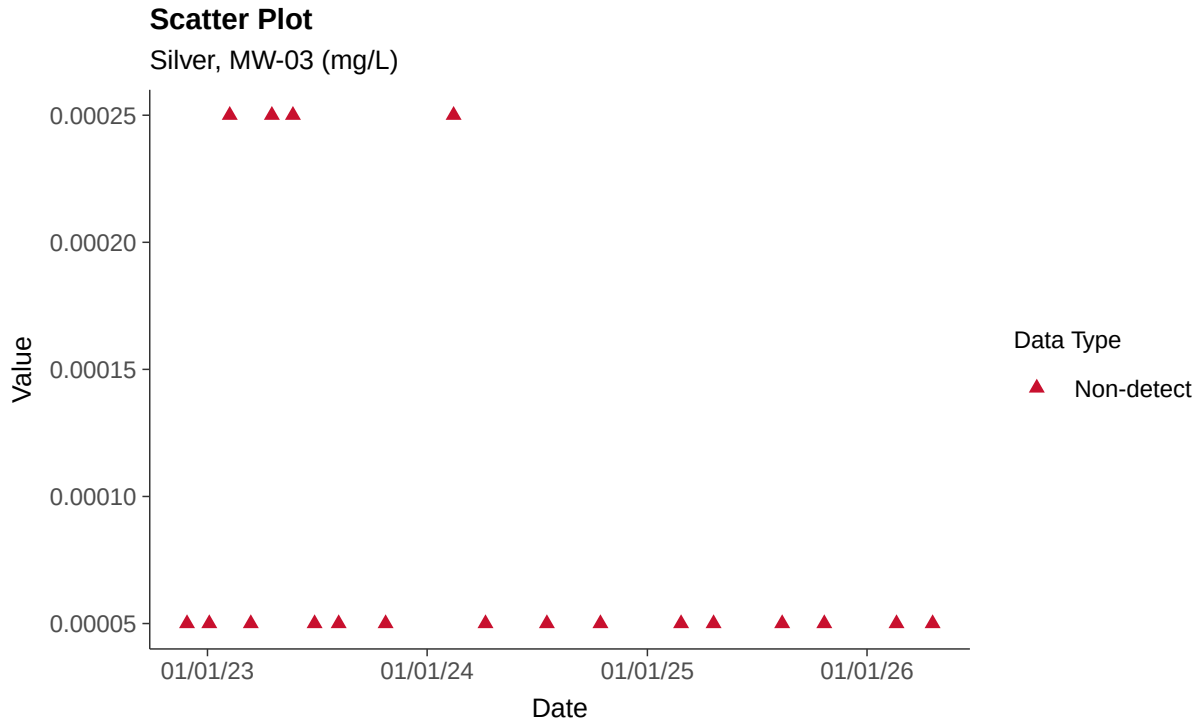
Trend Regression: Piecewise Linear-Linear-Linear

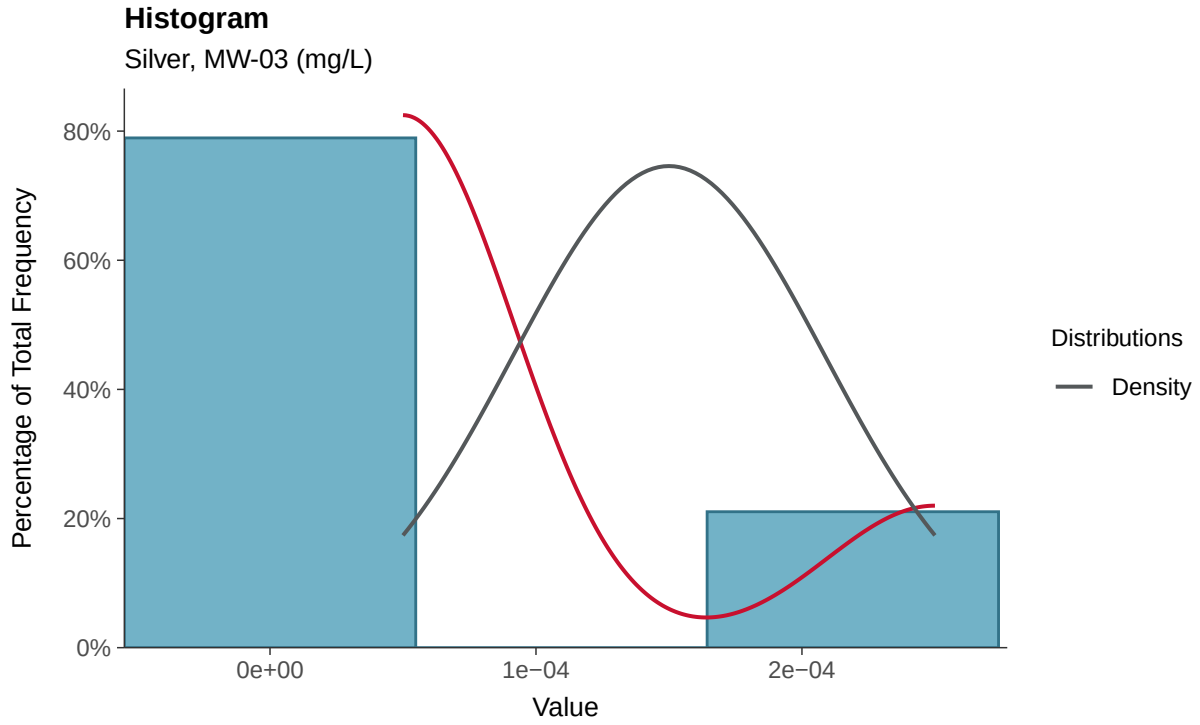
Nickel, MW-03 (mg/L)



Part 115: Silver, MW-03

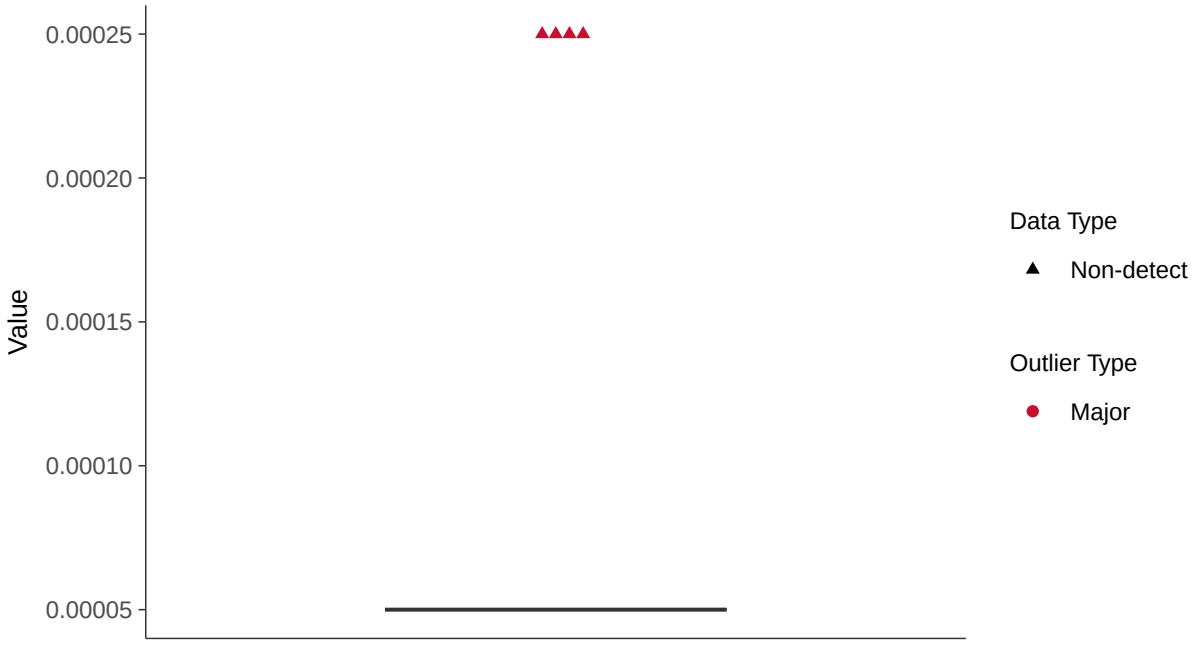
ID: 13_2_5_123





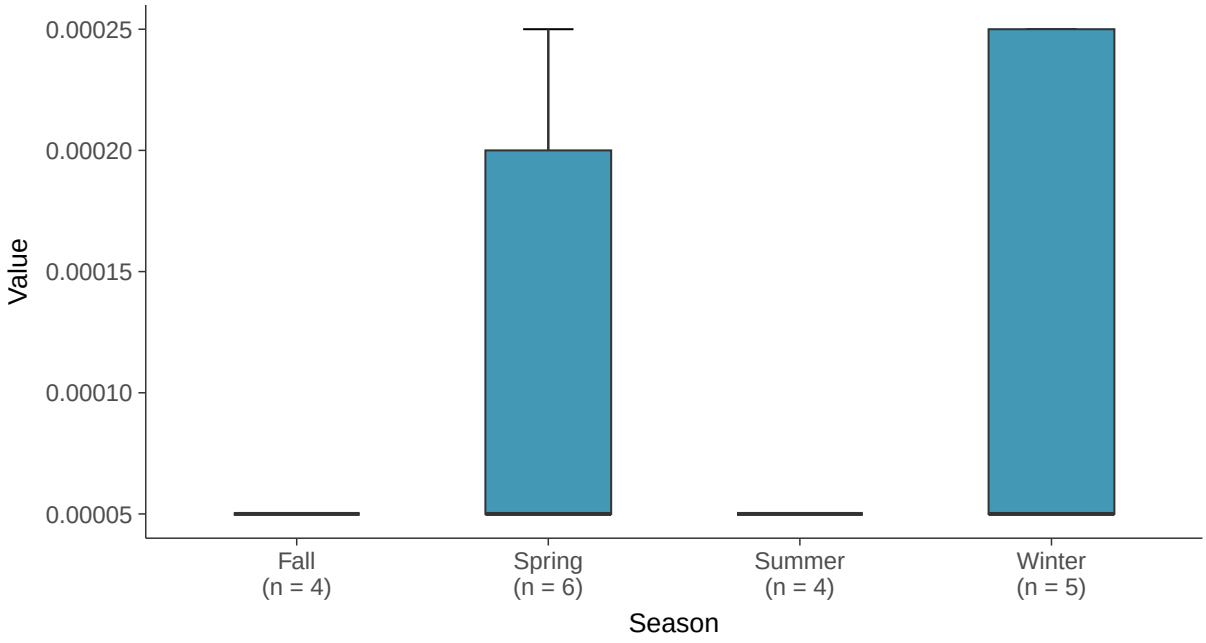
Boxplot

Silver, MW-03 (mg/L)



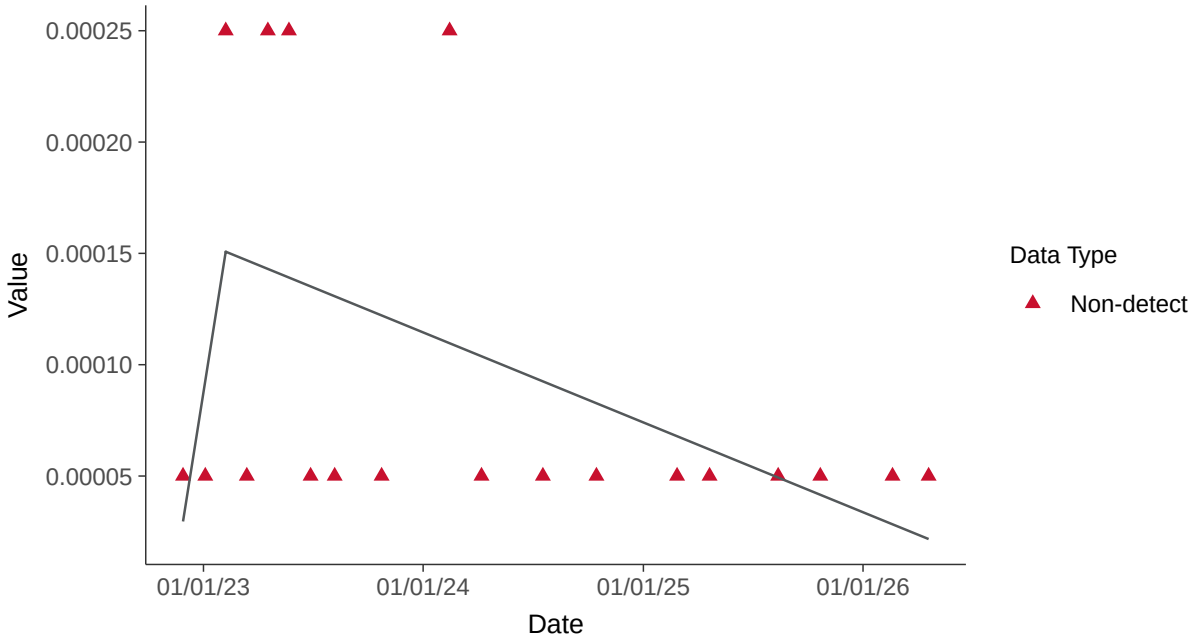
Boxplot by Season

Silver, MW-03 (mg/L)



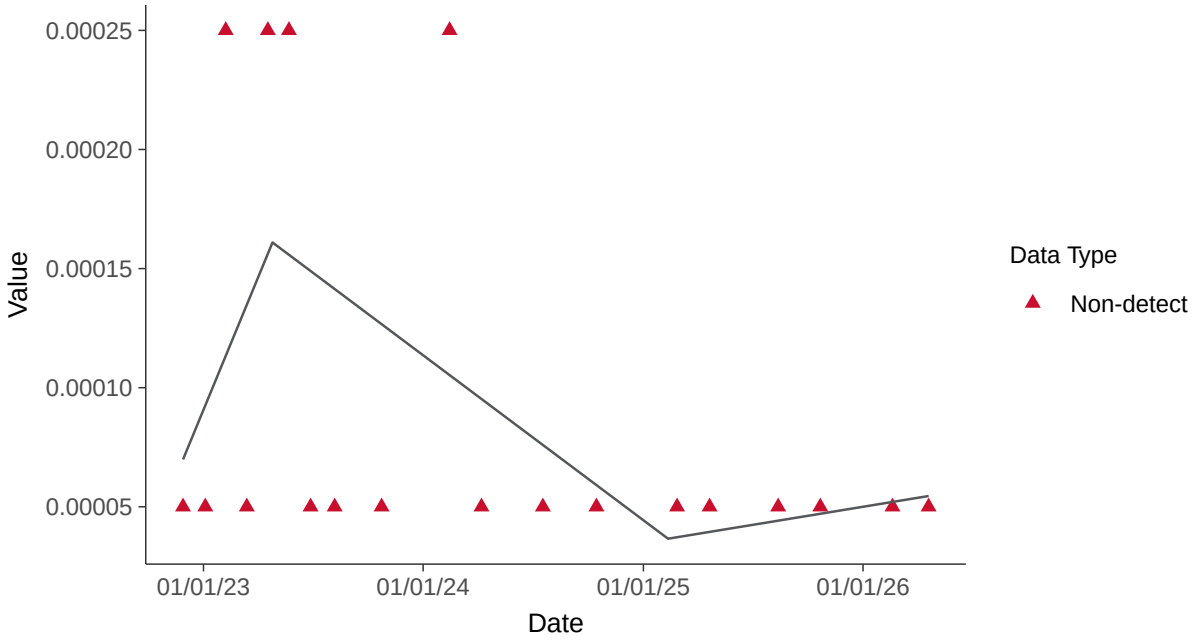
Trend Regression: Piecewise Linear-Linear

Silver, MW-03 (mg/L)



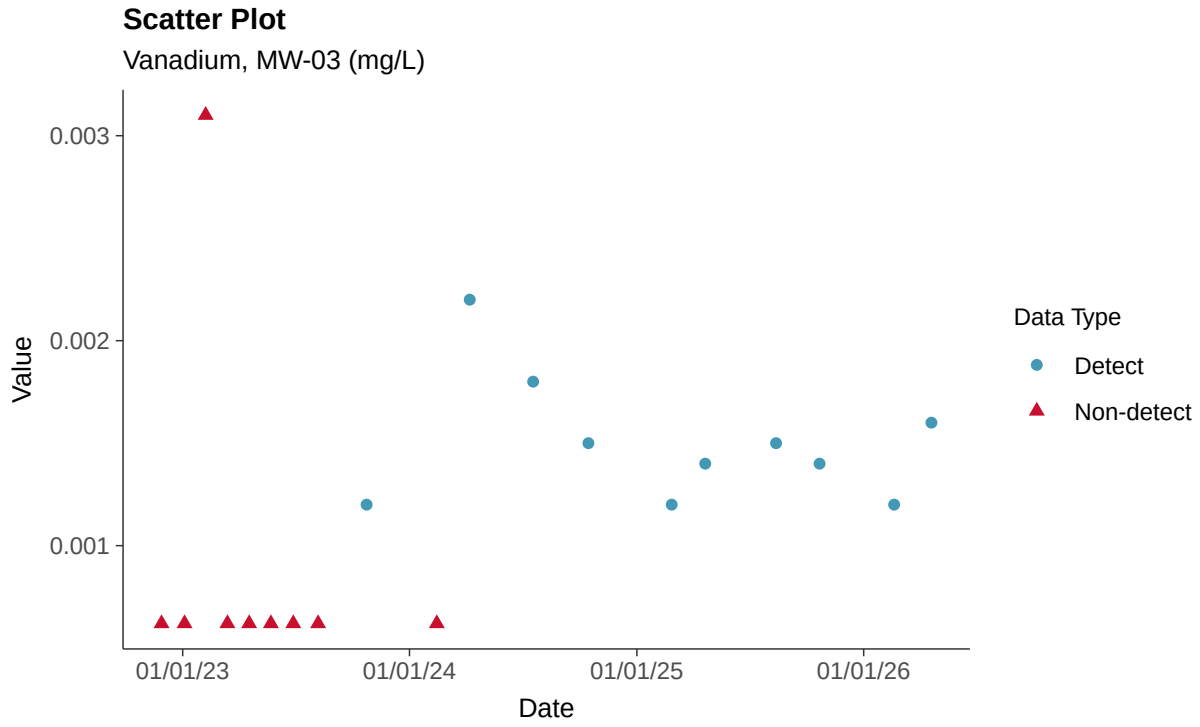
Trend Regression: Piecewise Linear-Linear-Linear

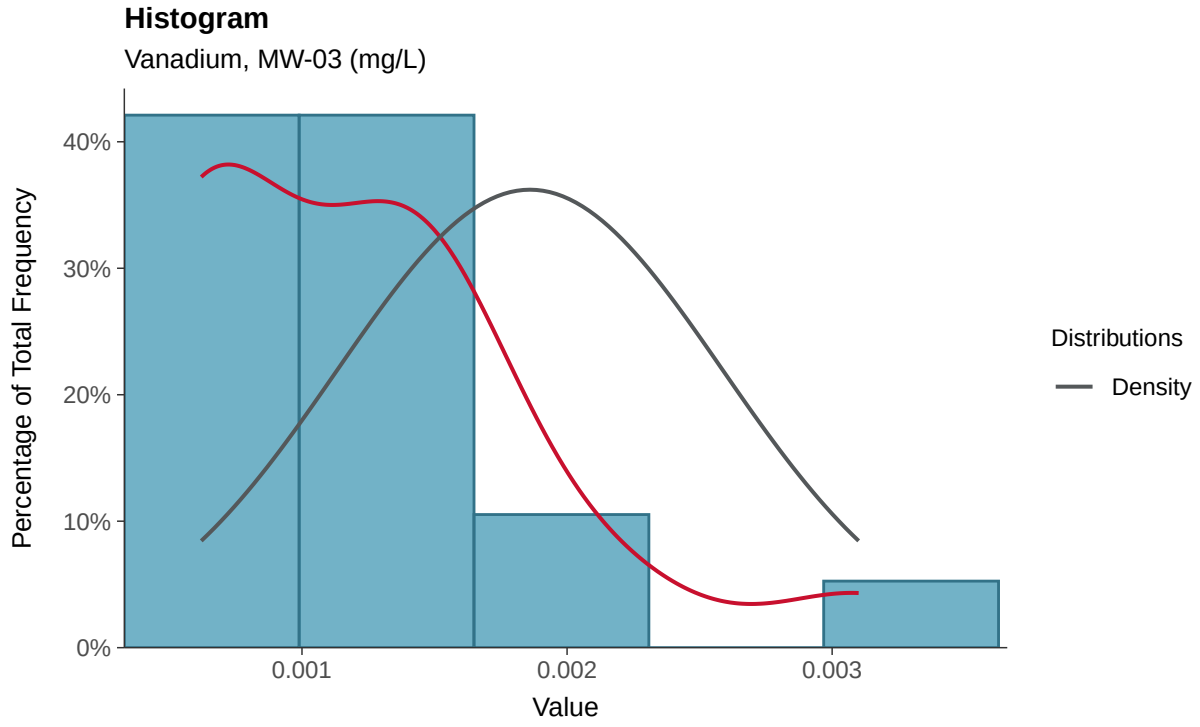
Silver, MW-03 (mg/L)



Part 115: Vanadium, MW-03

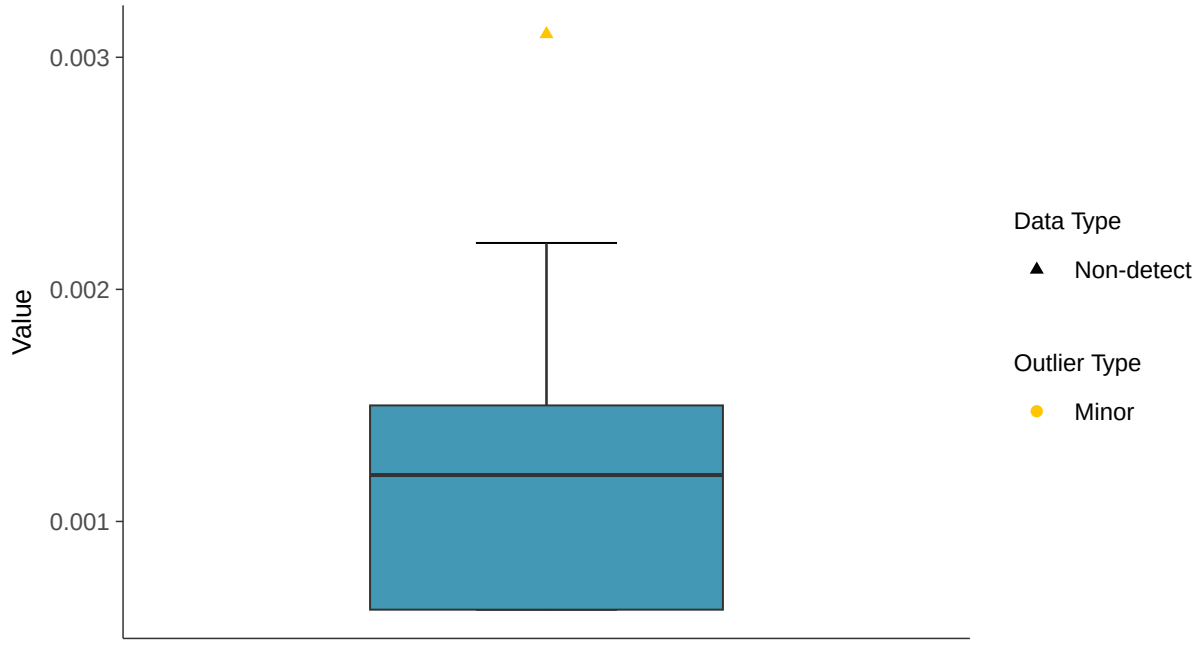
ID: 13_2_5_128





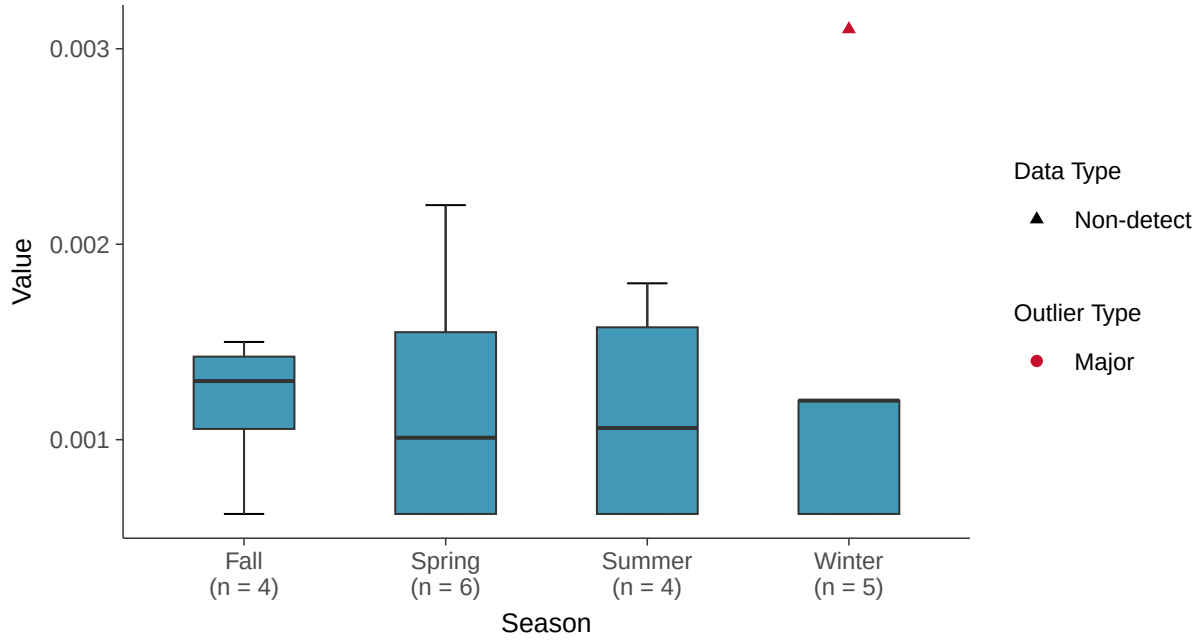
Boxplot

Vanadium, MW-03 (mg/L)



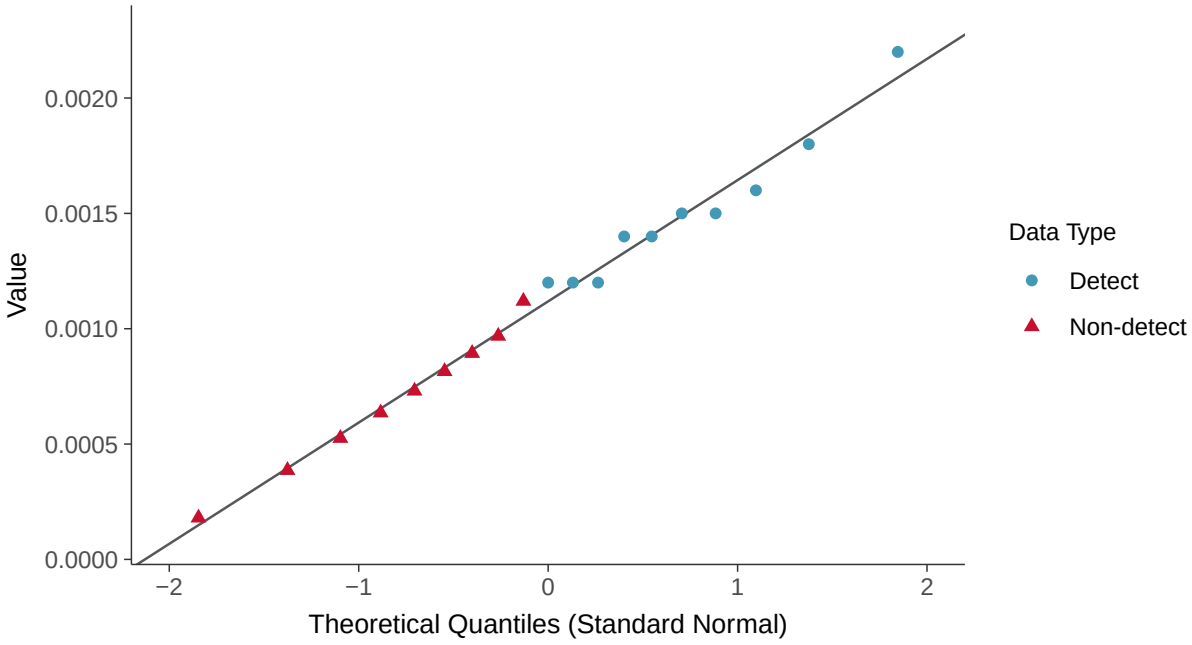
Boxplot by Season

Vanadium, MW-03 (mg/L)



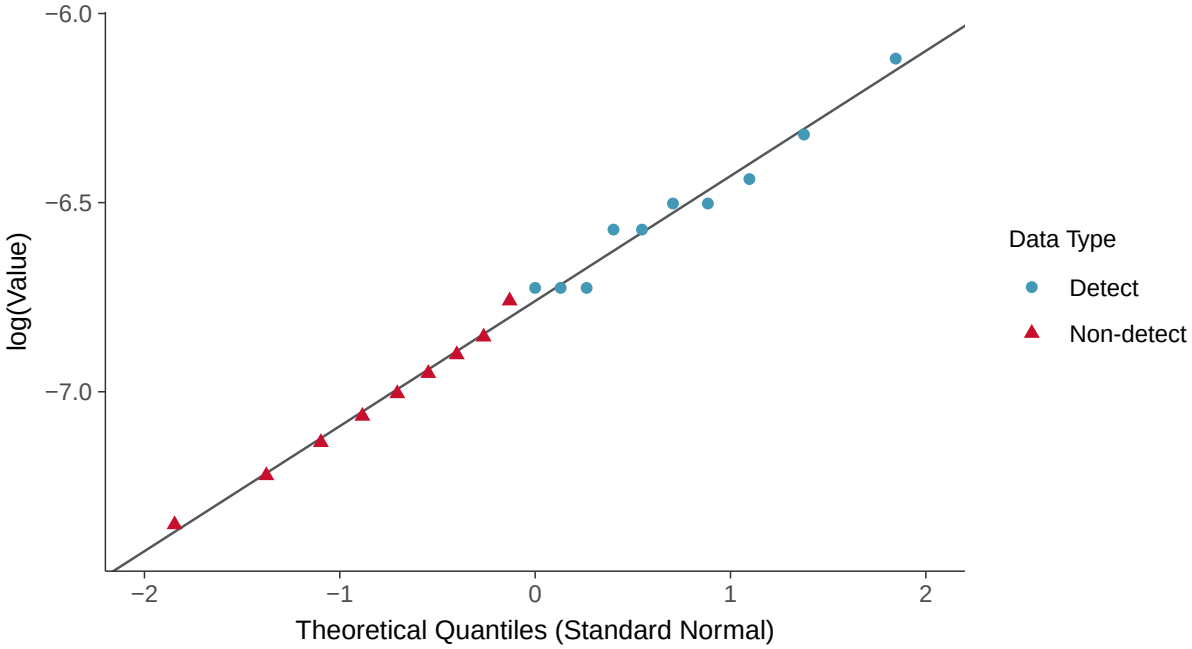
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-03 (mg/L)



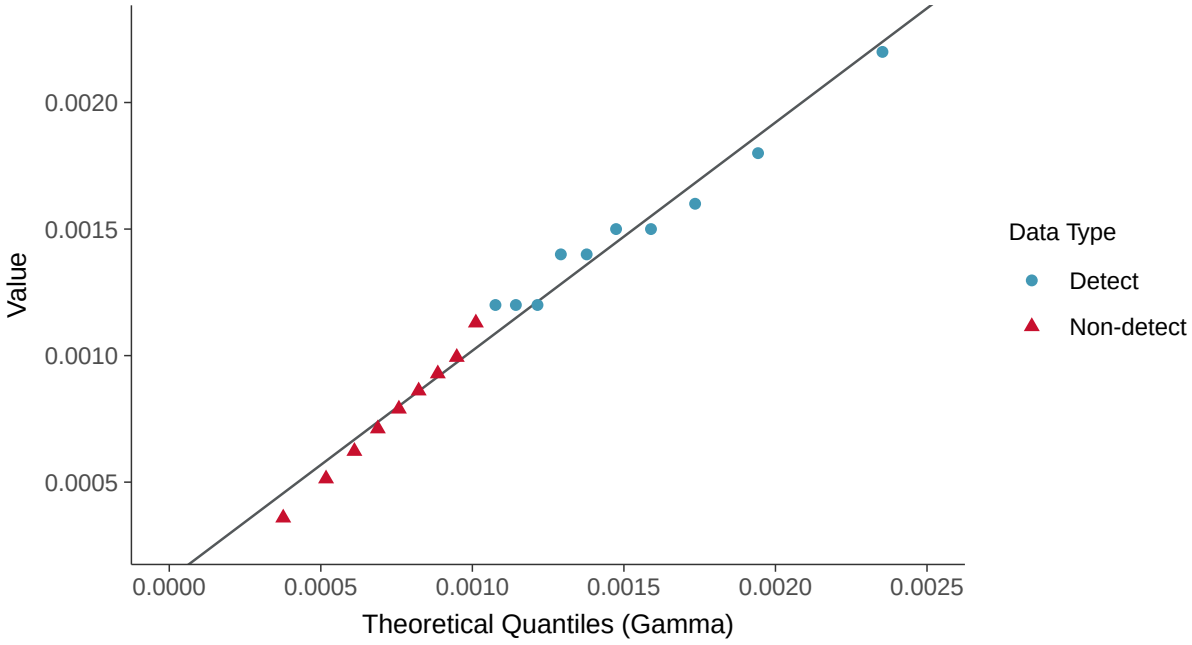
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-03 (mg/L)



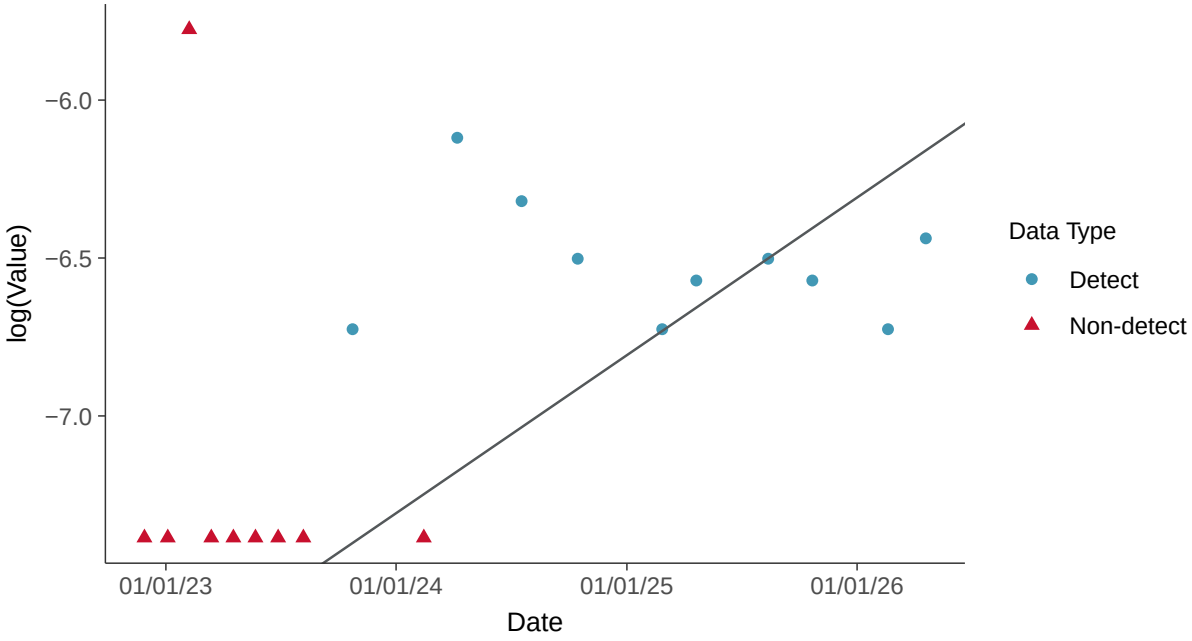
Gamma Q-Q plot using ROS Imputed Estimates

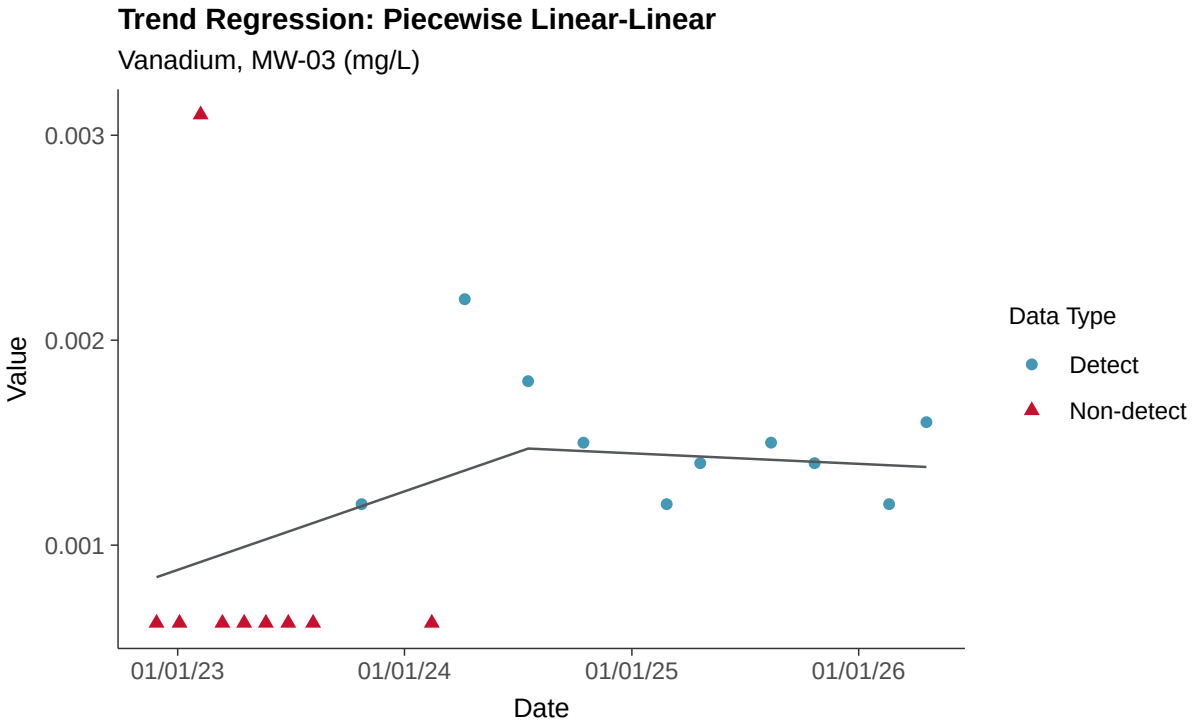
Vanadium, MW-03 (mg/L)



Trend Regression: Lognormal MLE

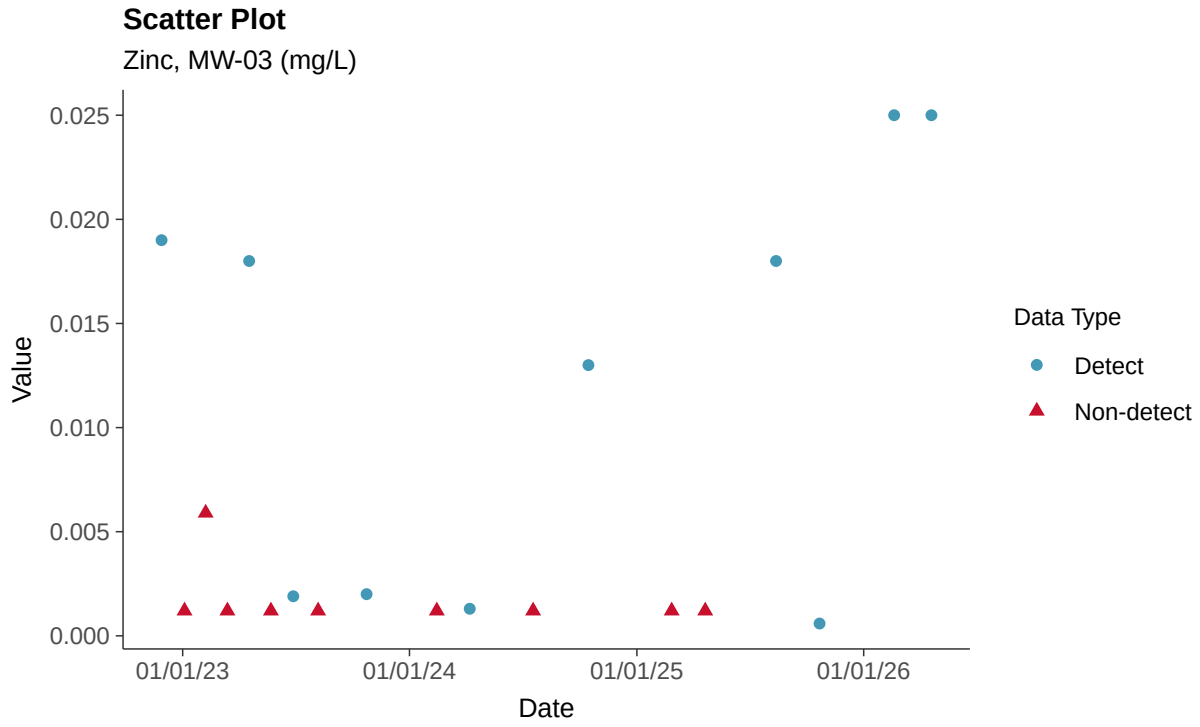
Vanadium, MW-03 (mg/L)

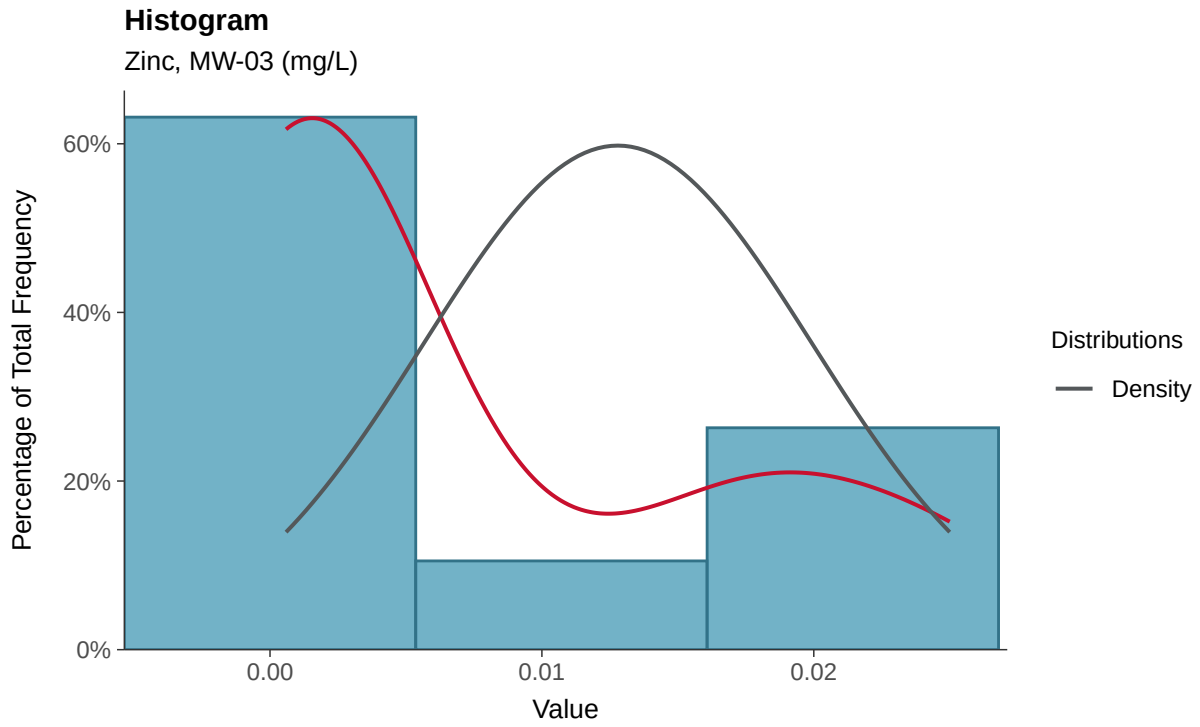



Trend Regression: Piecewise Linear-Linear
Vanadium, MW-03 (mg/L)
0.003
0.002
0.001
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Zinc, MW-03

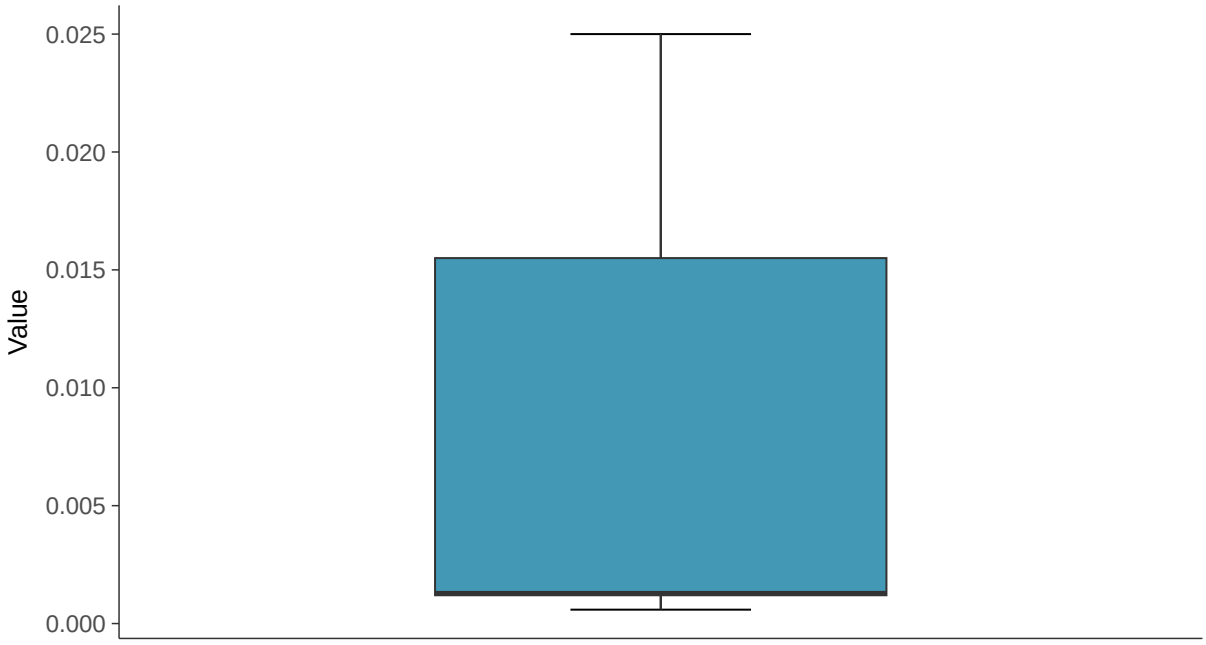
ID: 13_2_5_129





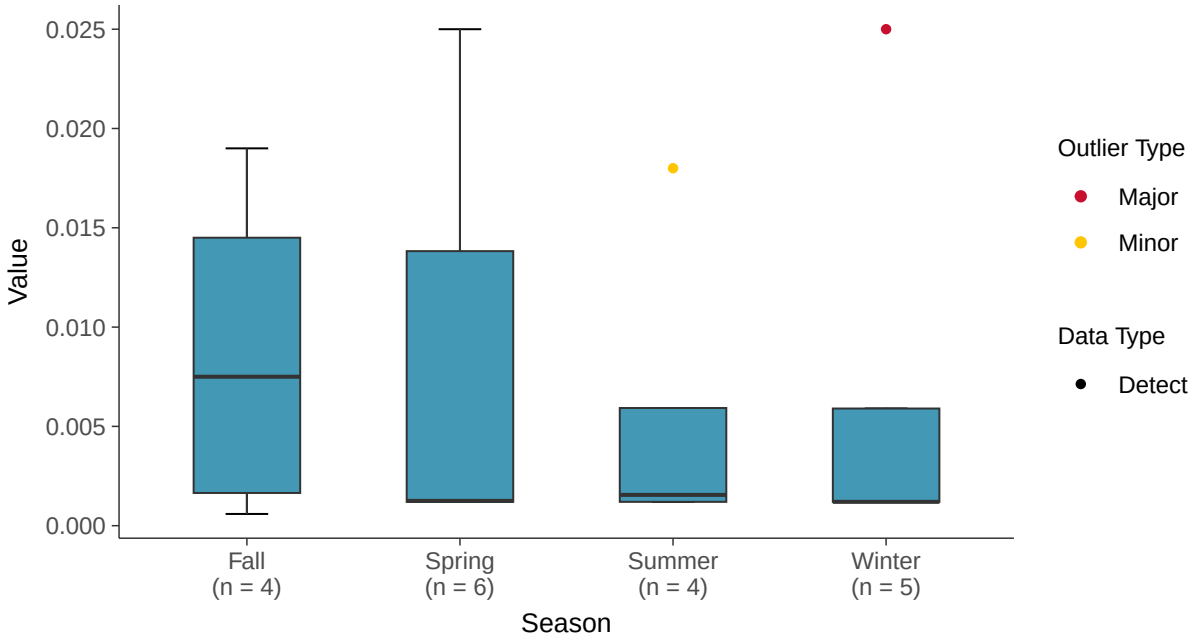
Boxplot

Zinc, MW-03 (mg/L)



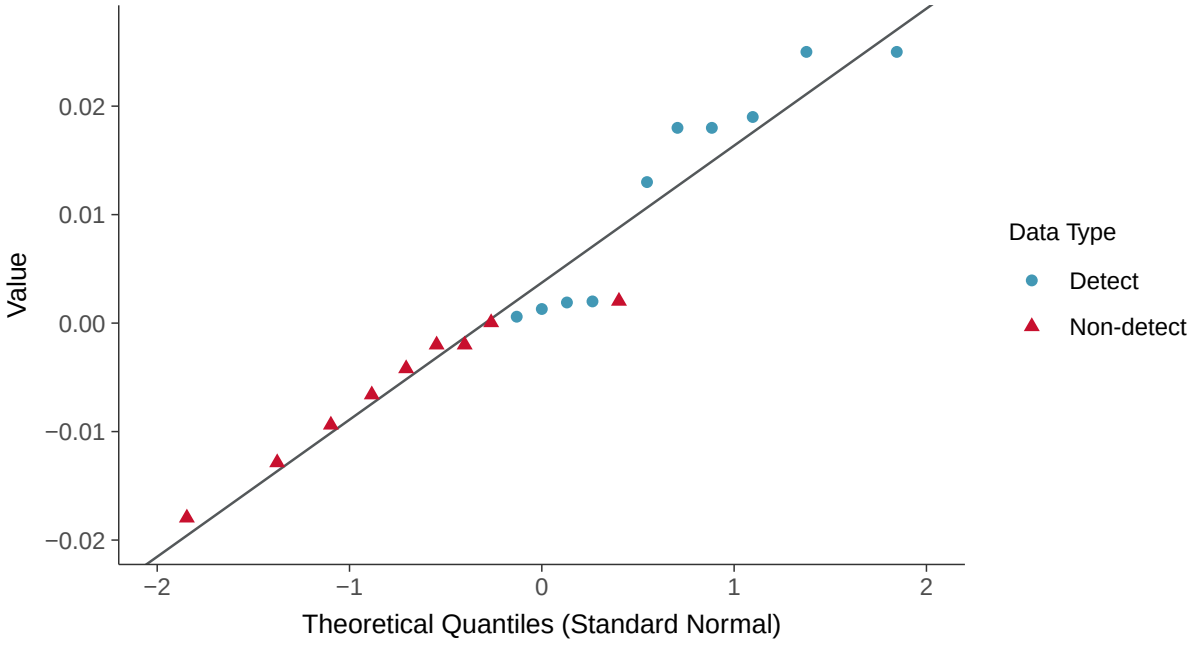
Boxplot by Season

Zinc, MW-03 (mg/L)



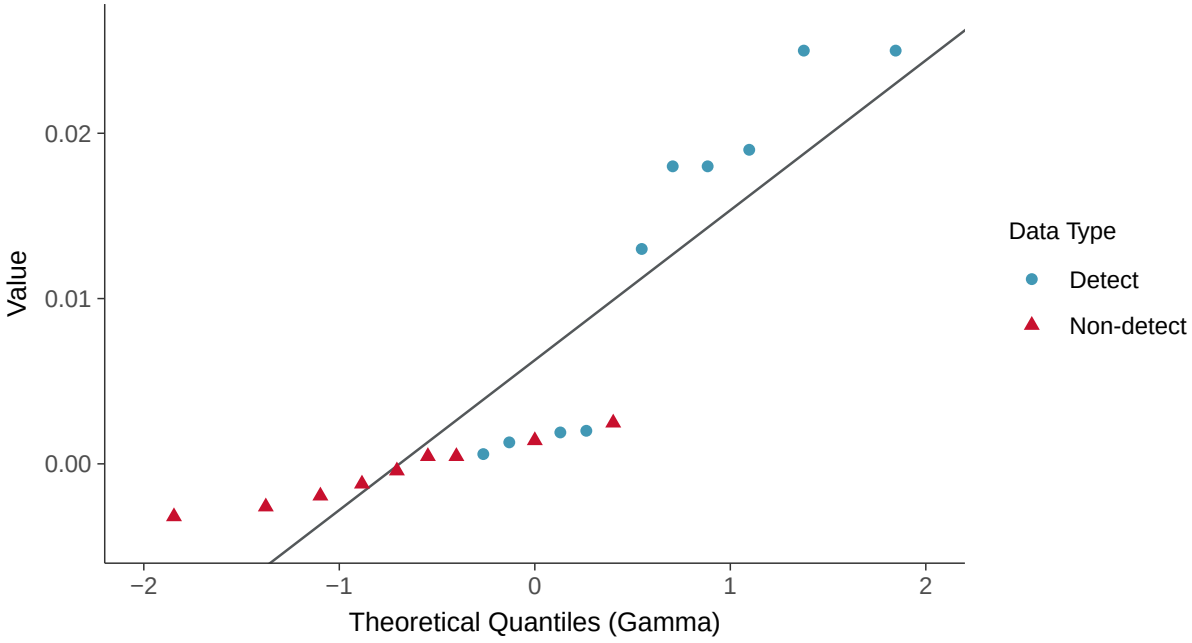
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-03 (mg/L)



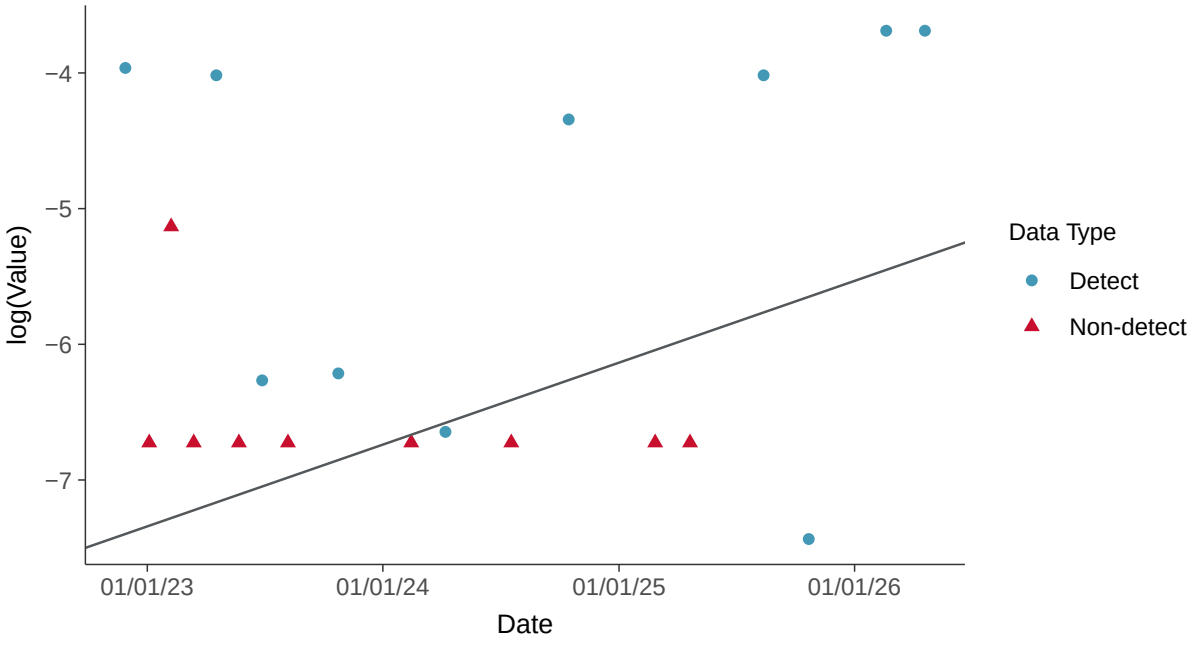
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-03 (mg/L)



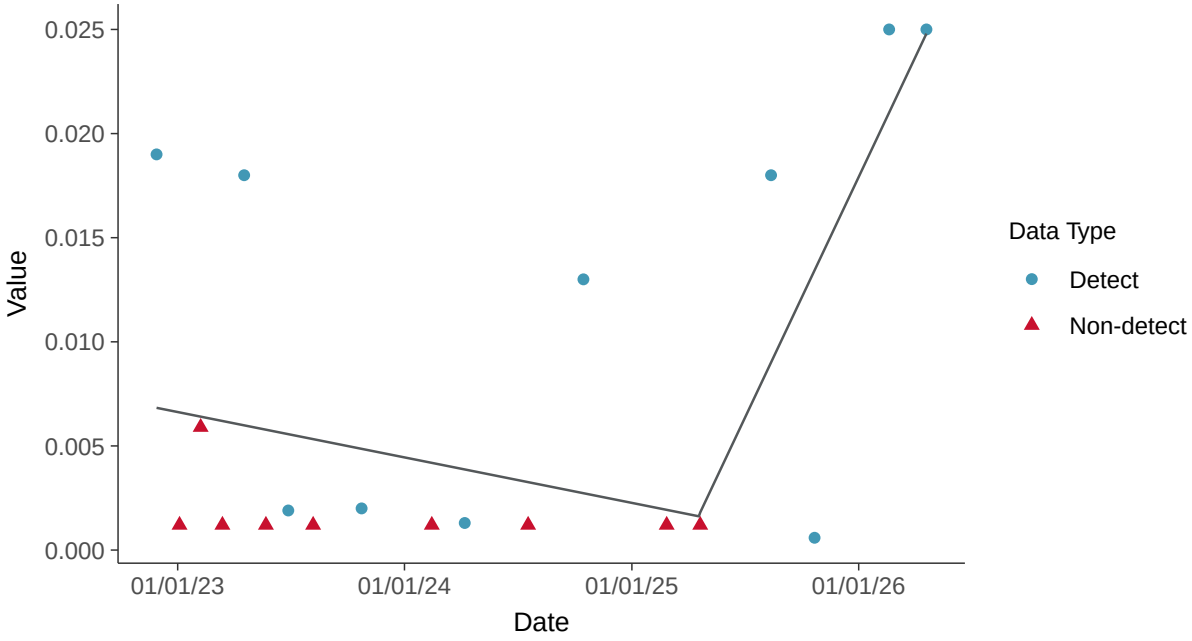
Trend Regression: Lognormal MLE

Zinc, MW-03 (mg/L)



Trend Regression: Piecewise Linear-Linear

Zinc, MW-03 (mg/L)

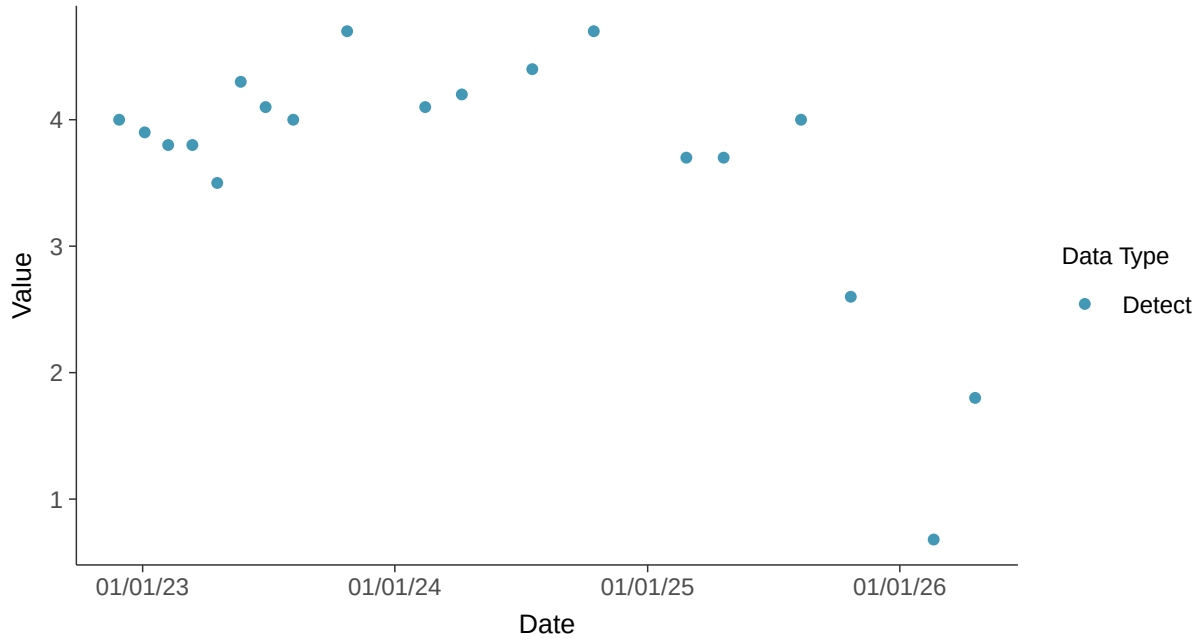


Appendix III: Boron, MW-04

ID: 14_2_3_105

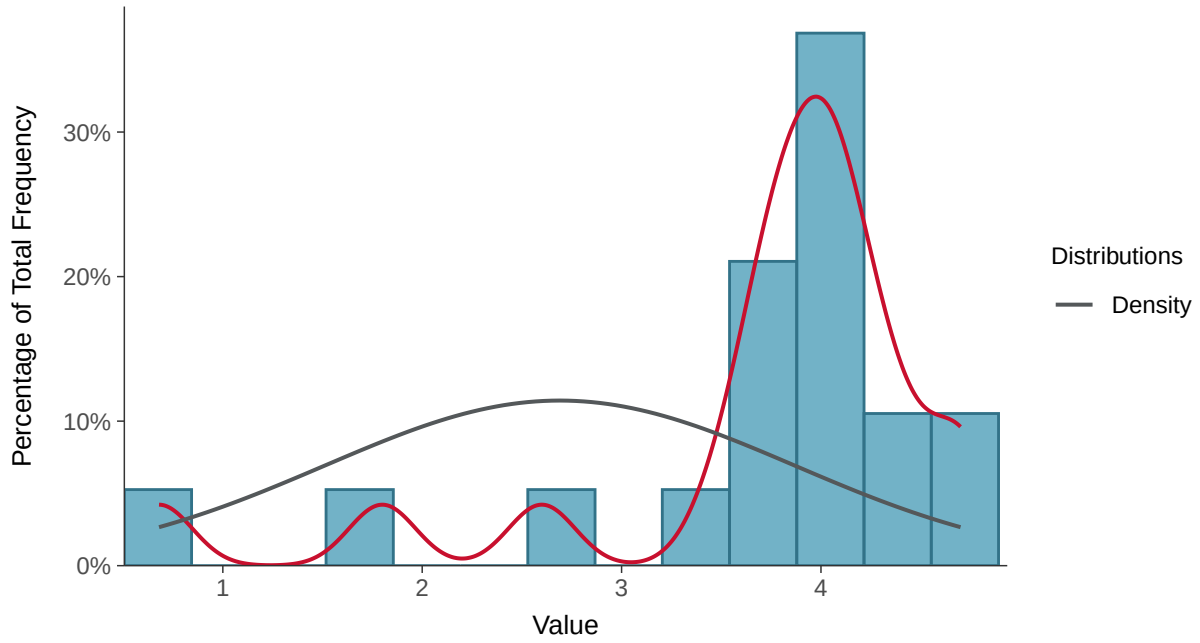
Scatter Plot

Boron, MW-04 (mg/L)



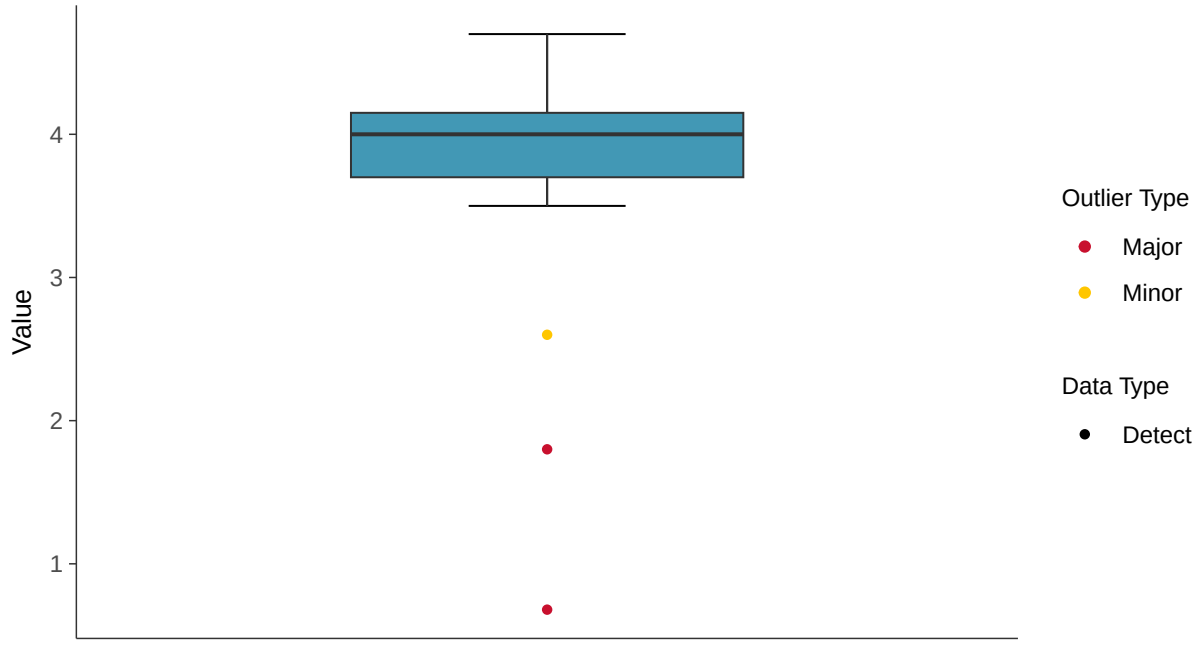
Histogram

Boron, MW-04 (mg/L)



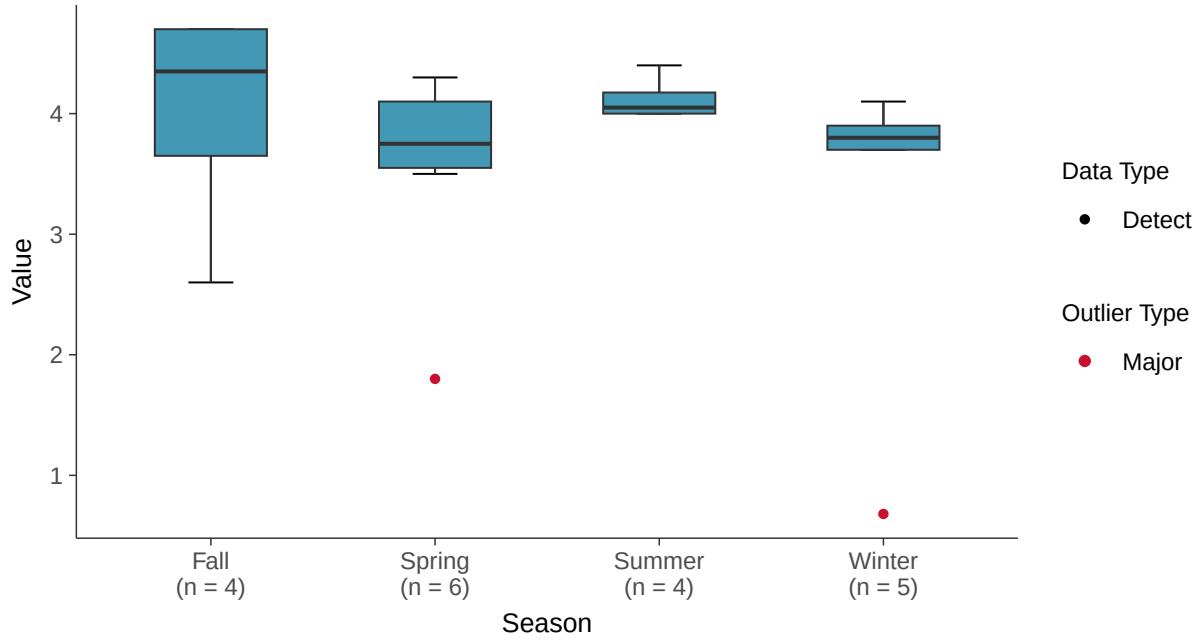
Boxplot

Boron, MW-04 (mg/L)



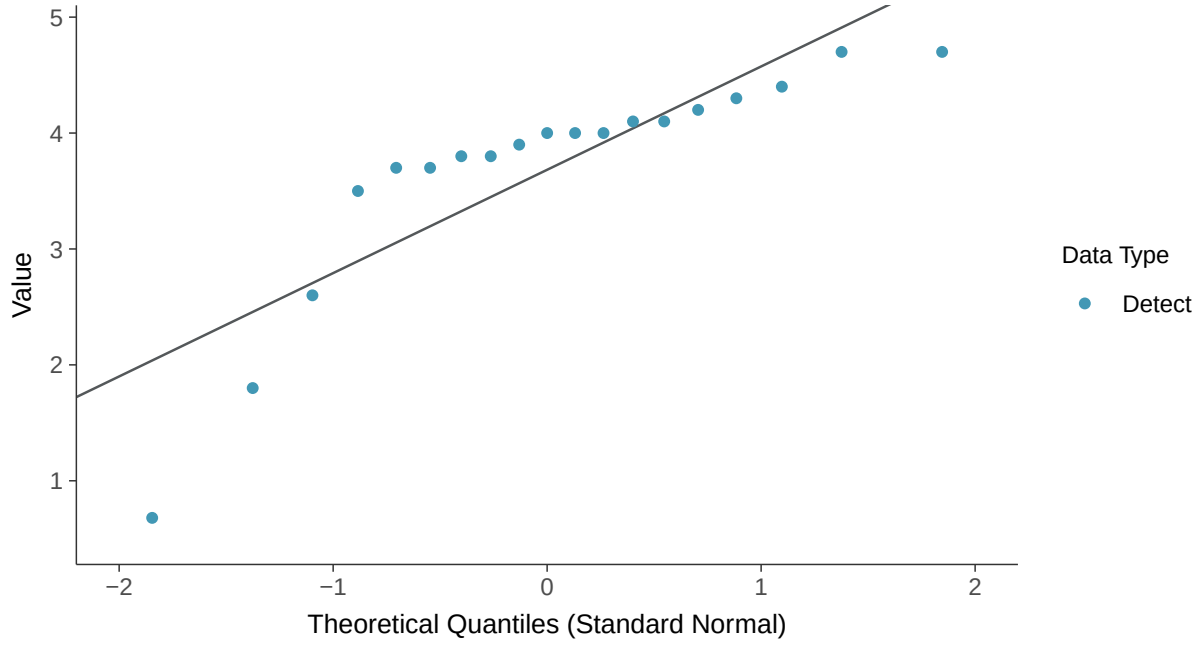
Boxplot by Season

Boron, MW-04 (mg/L)



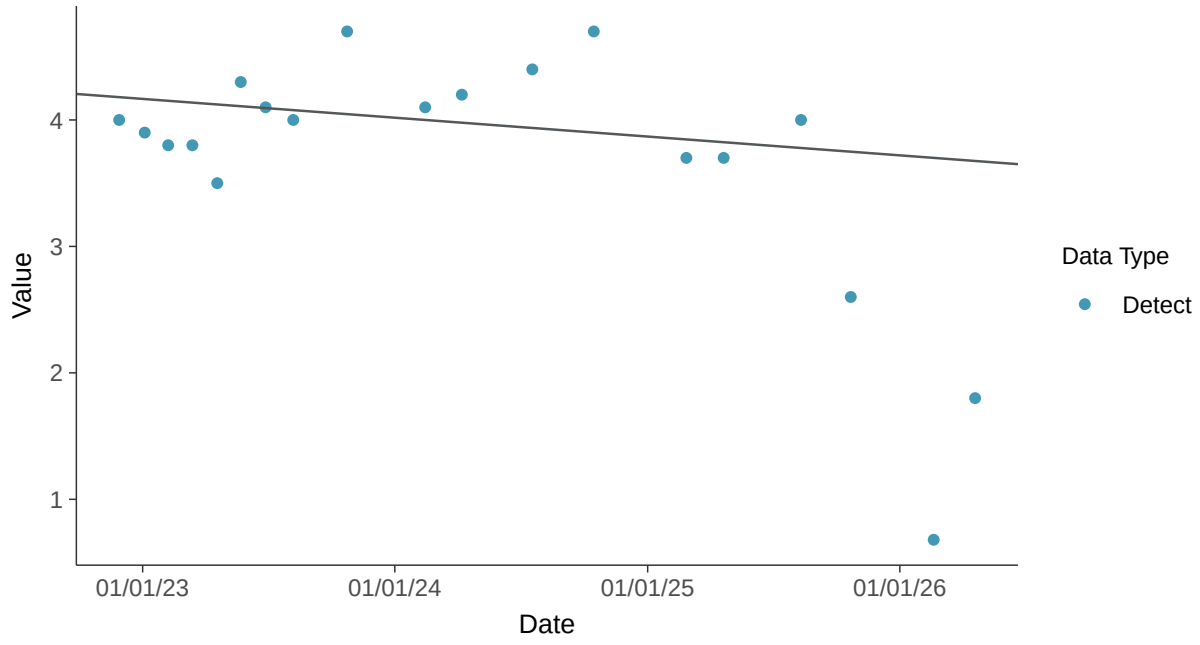
Normal Q-Q plot

Boron, MW-04 (mg/L)



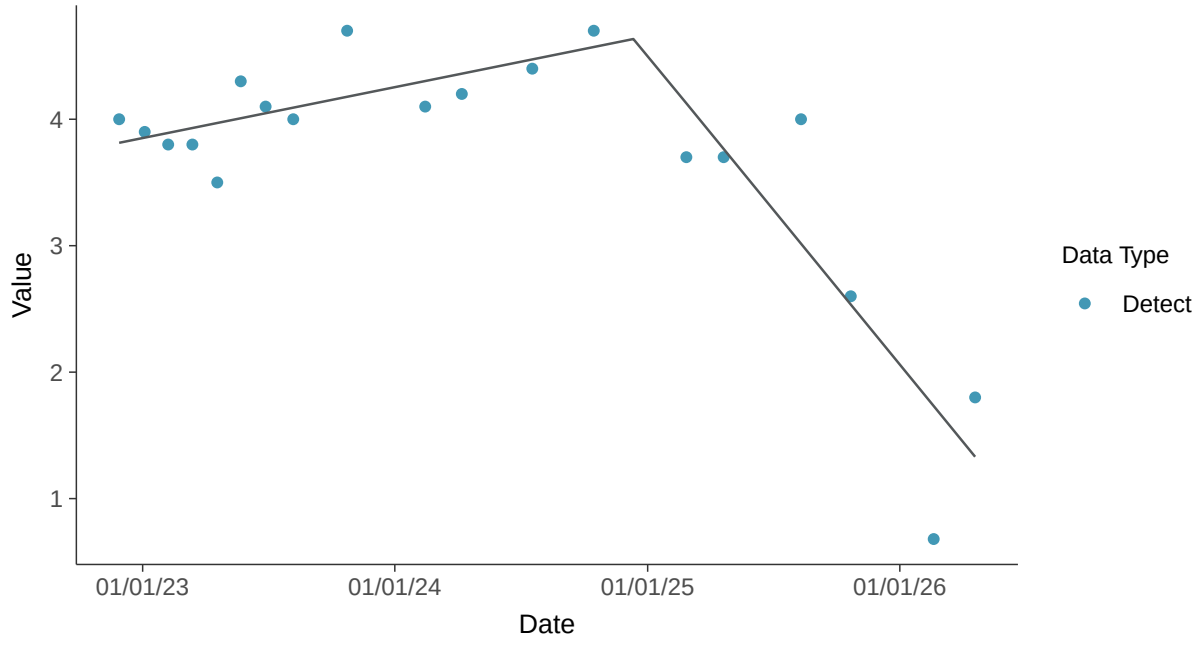
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Boron, MW-04 (mg/L)



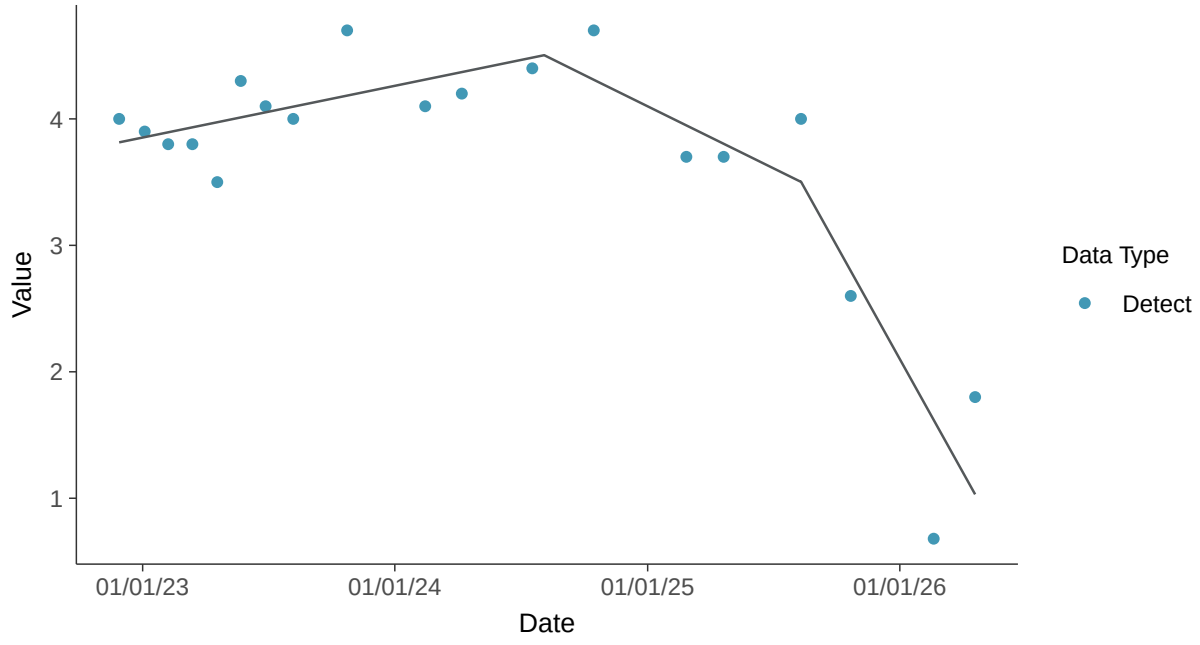
Trend Regression: Piecewise Linear-Linear

Boron, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-04 (mg/L)

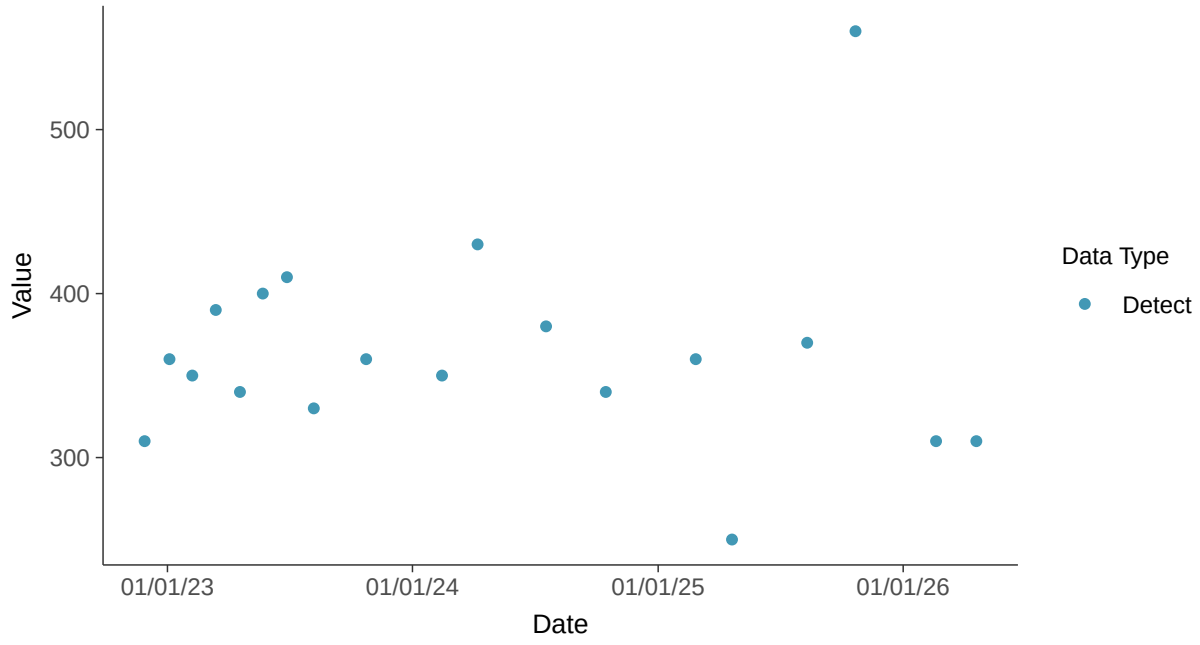


Appendix III: Calcium, MW-04

ID: 14_2_3_107

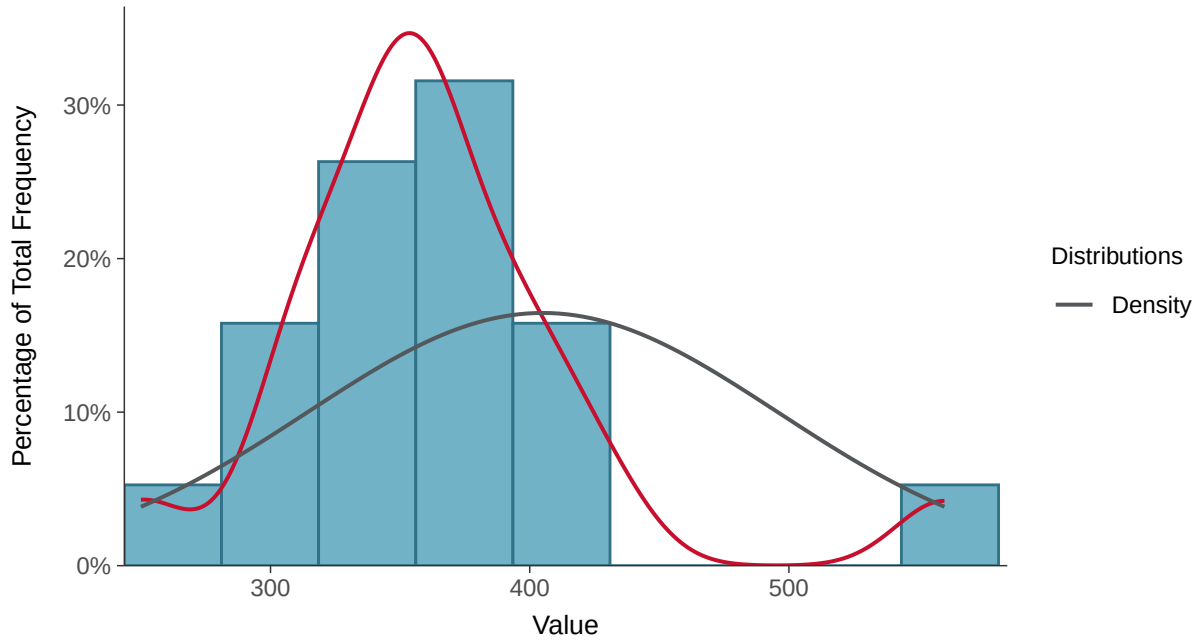
Scatter Plot

Calcium, MW-04 (mg/L)



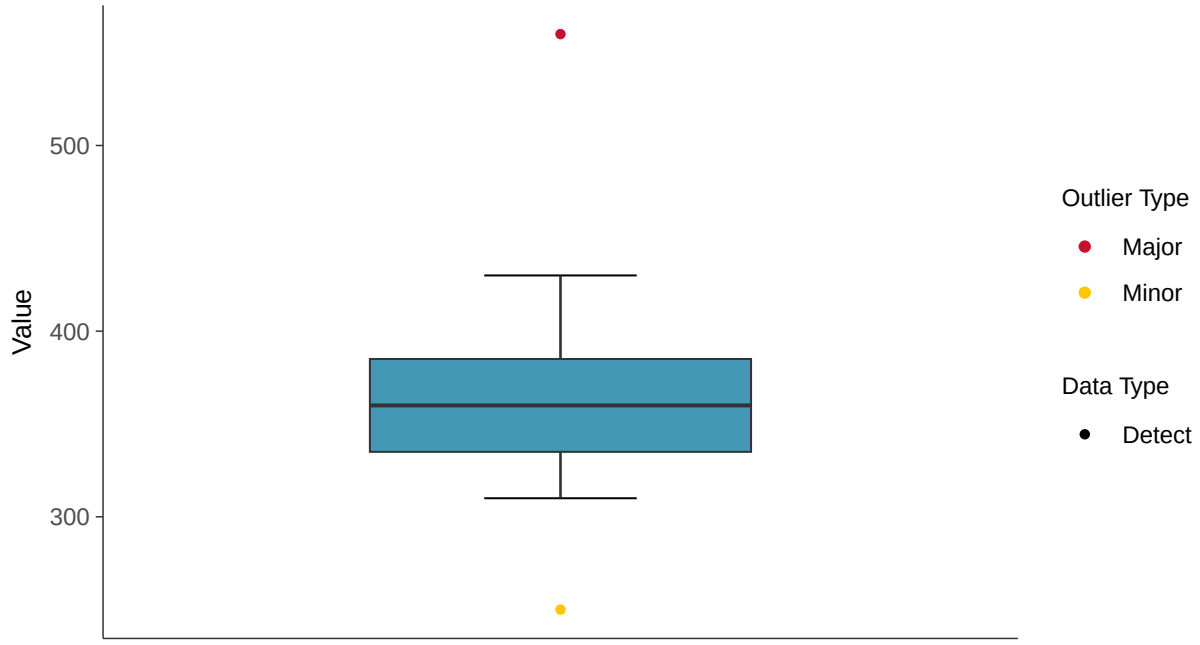
Histogram

Calcium, MW-04 (mg/L)



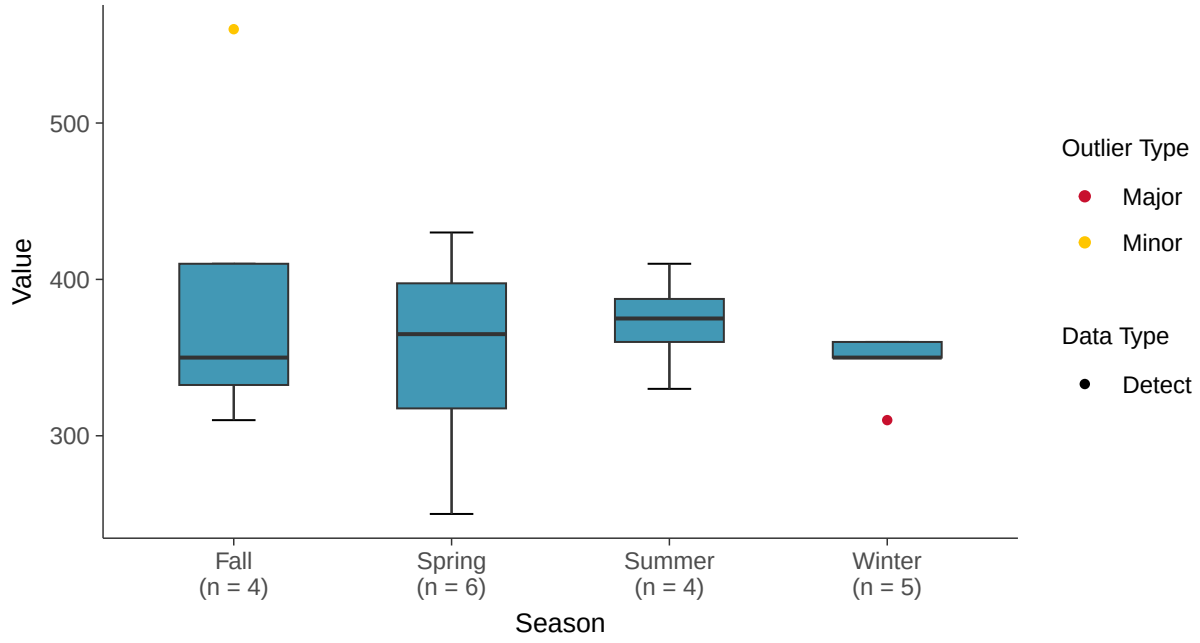
Boxplot

Calcium, MW-04 (mg/L)



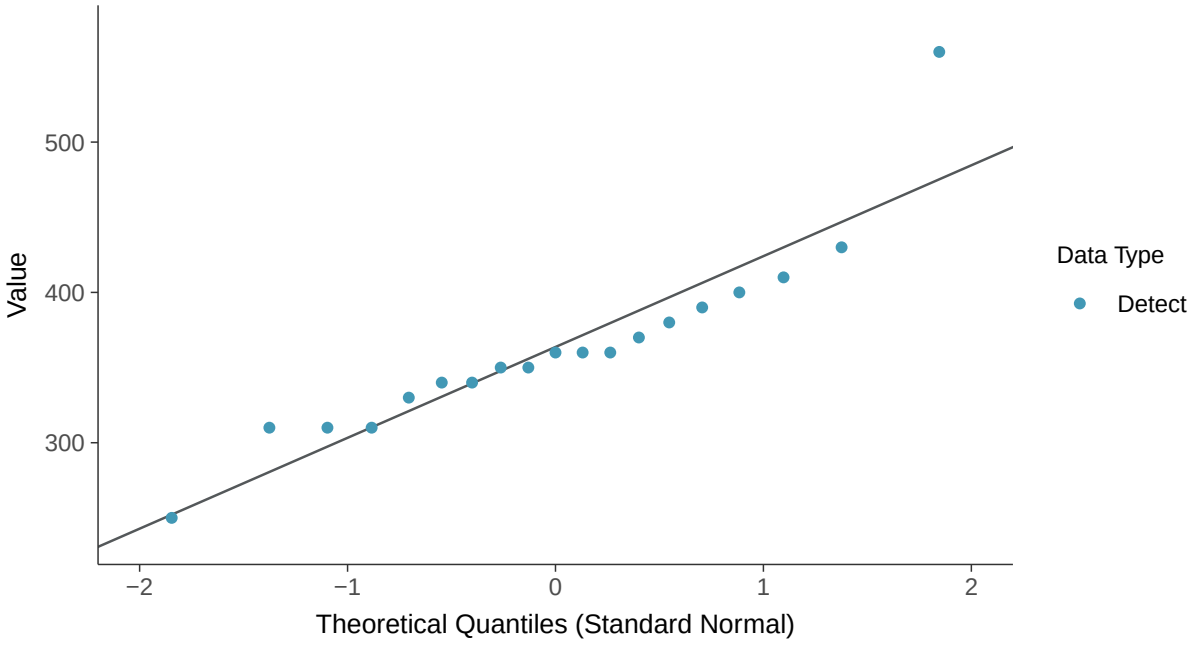
Boxplot by Season

Calcium, MW-04 (mg/L)



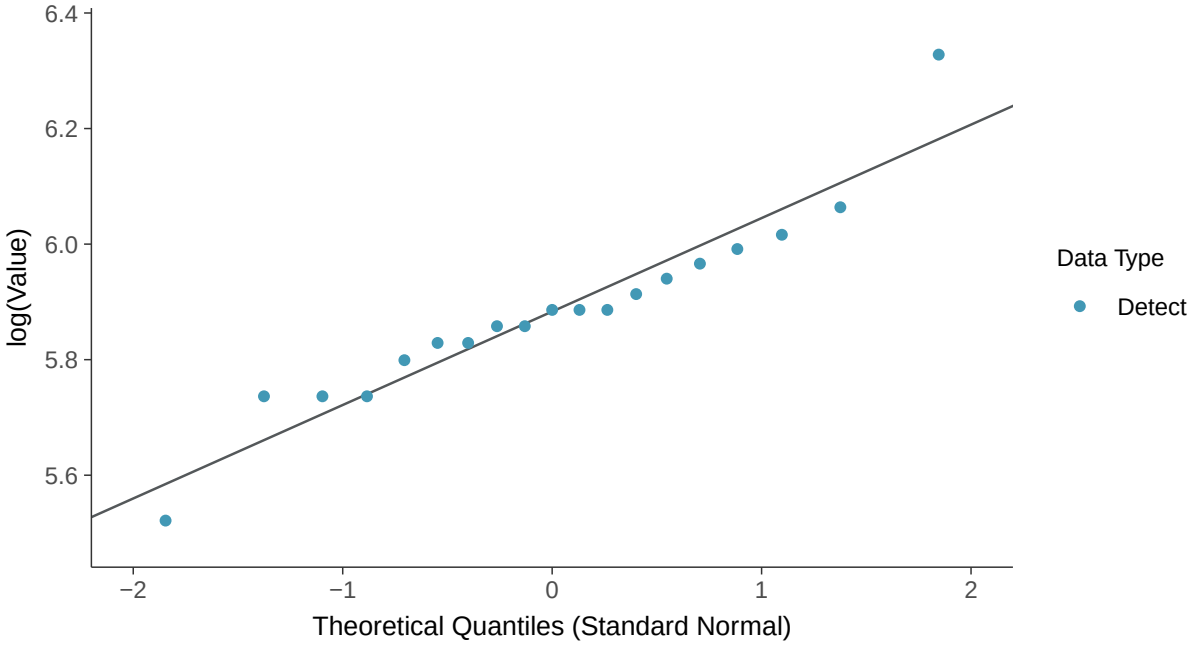
Normal Q-Q plot

Calcium, MW-04 (mg/L)



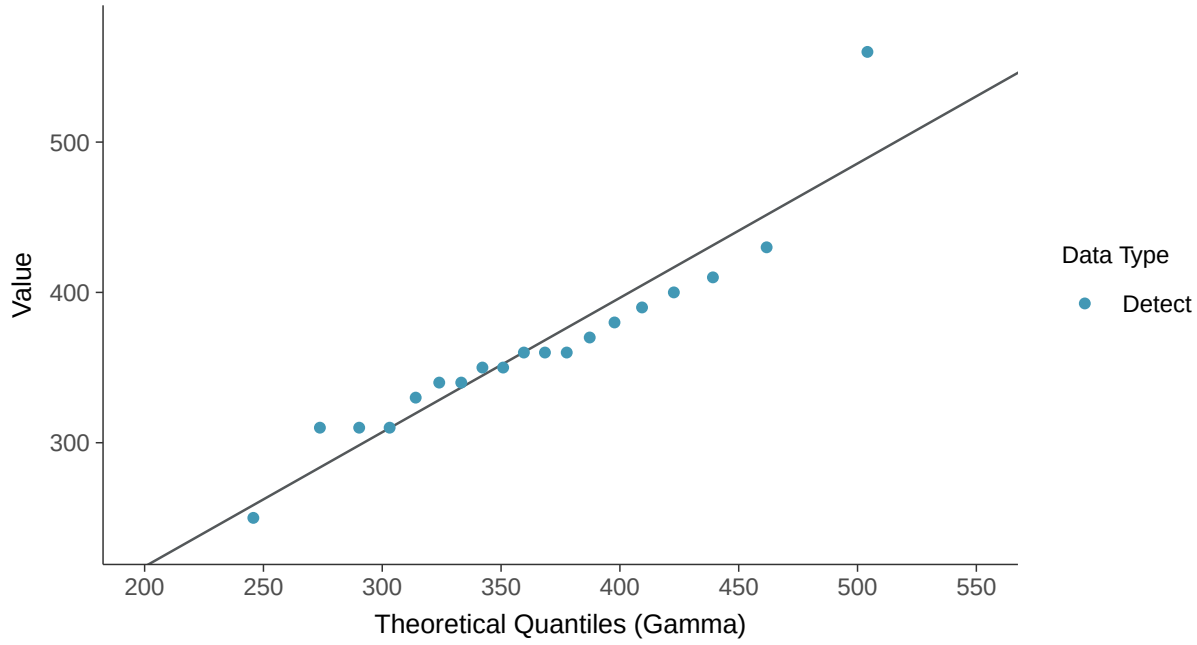
Lognormal Q-Q plot

Calcium, MW-04 (mg/L)



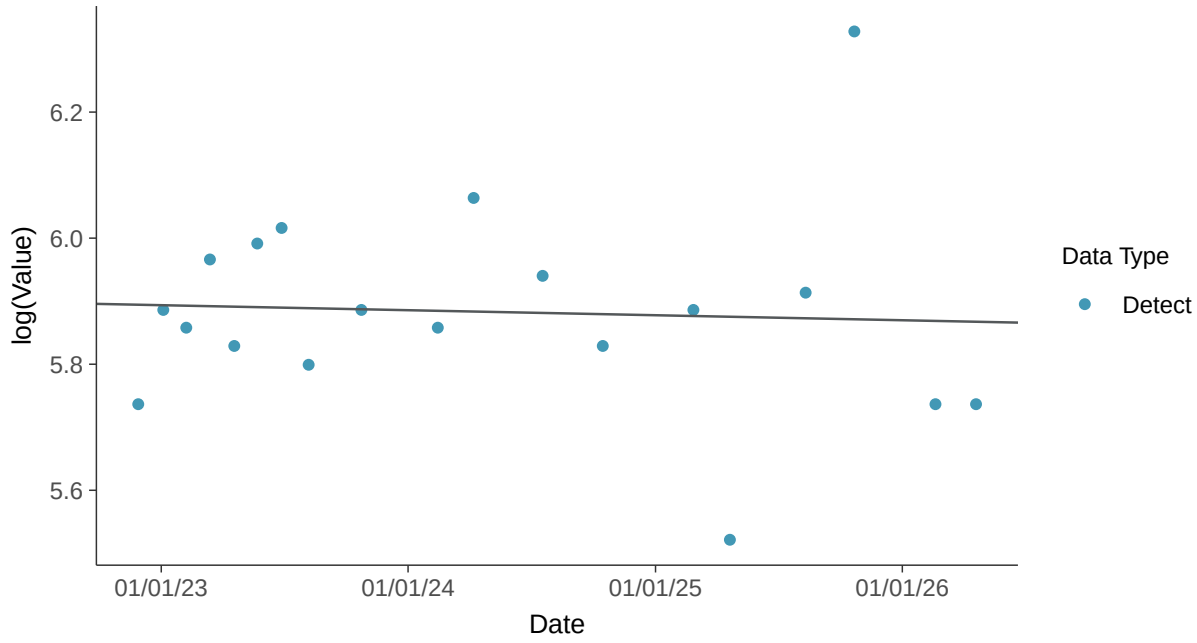
Gamma Q-Q plot

Calcium, MW-04 (mg/L)



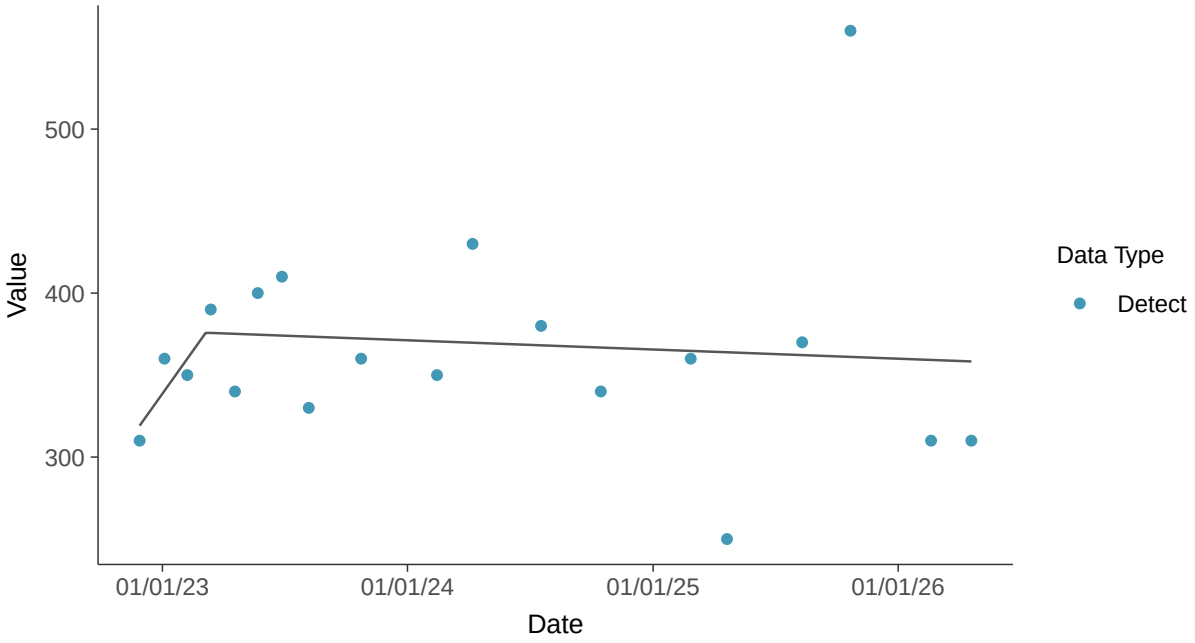
Trend Regression: Lognormal MLE

Calcium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-04 (mg/L)

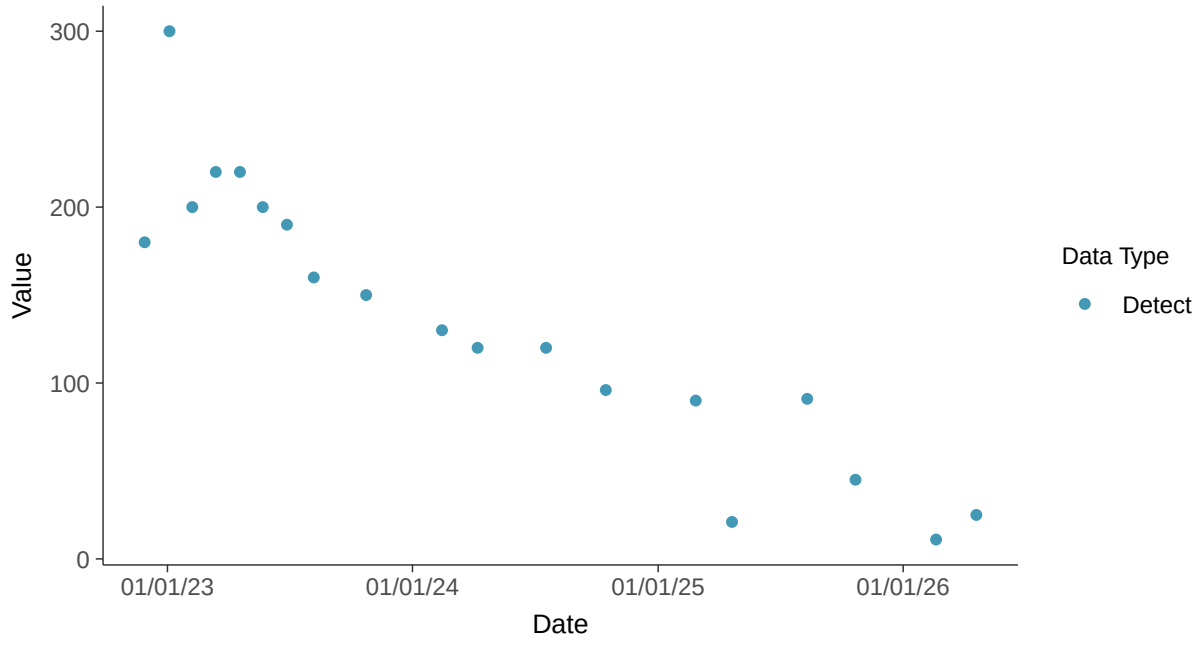


Appendix III: Chloride (as Cl), MW-04

ID: 14_2_3_108

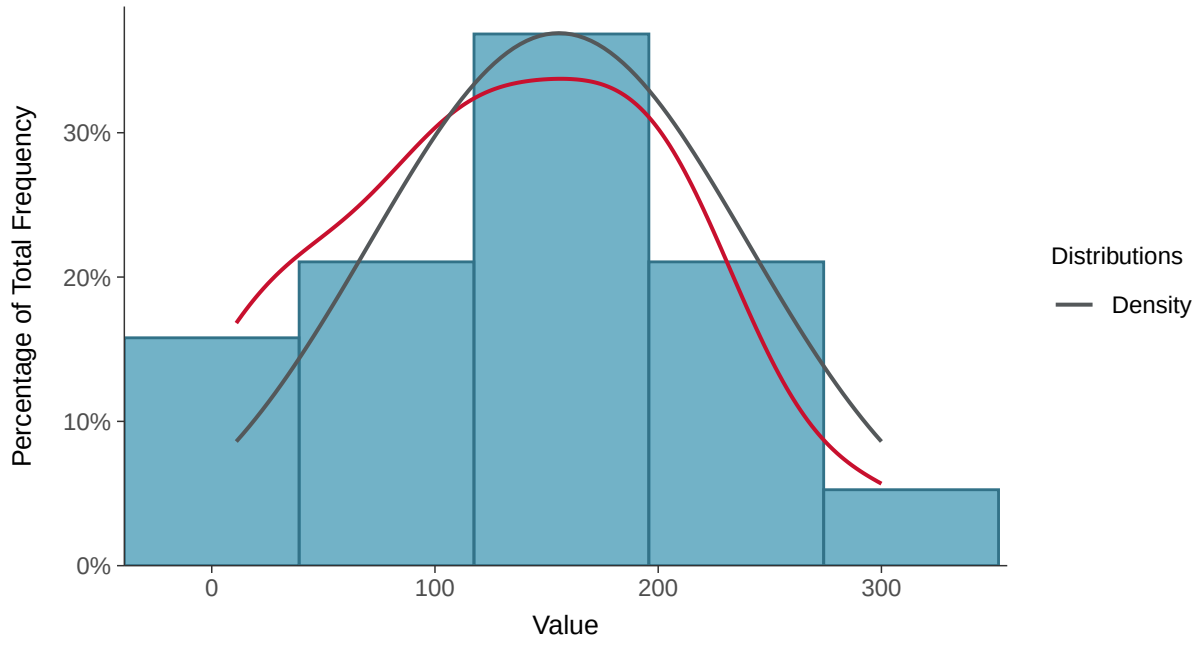
Scatter Plot

Chloride (as Cl), MW-04 (mg/L)



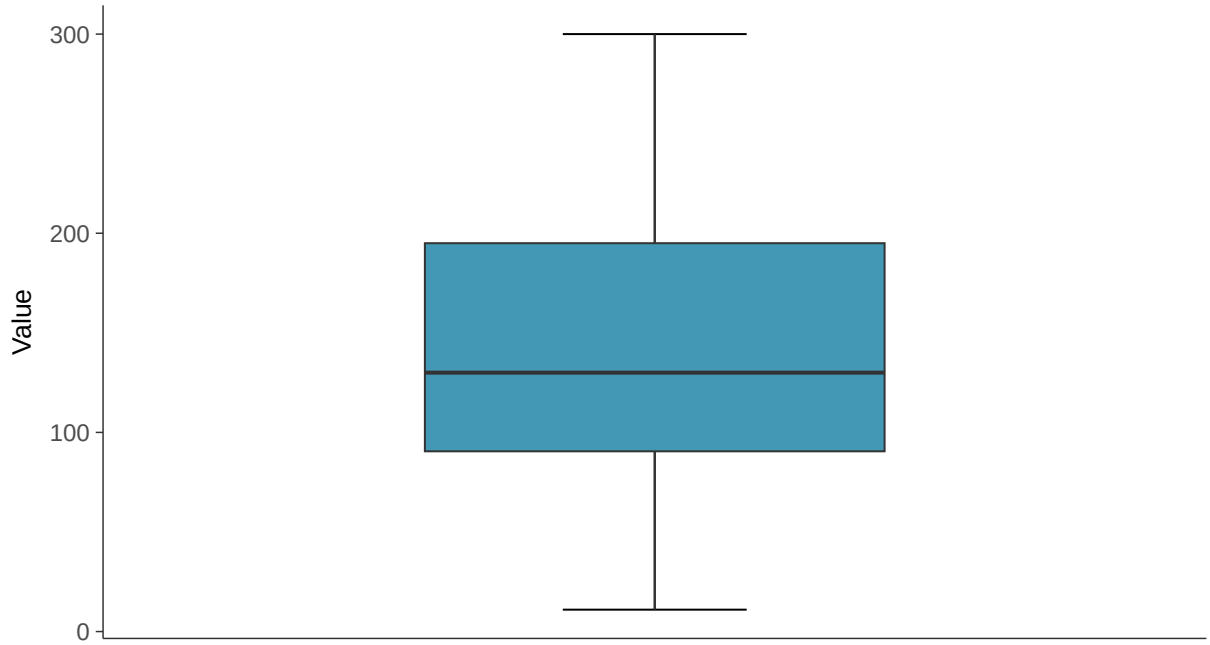
Histogram

Chloride (as Cl), MW-04 (mg/L)



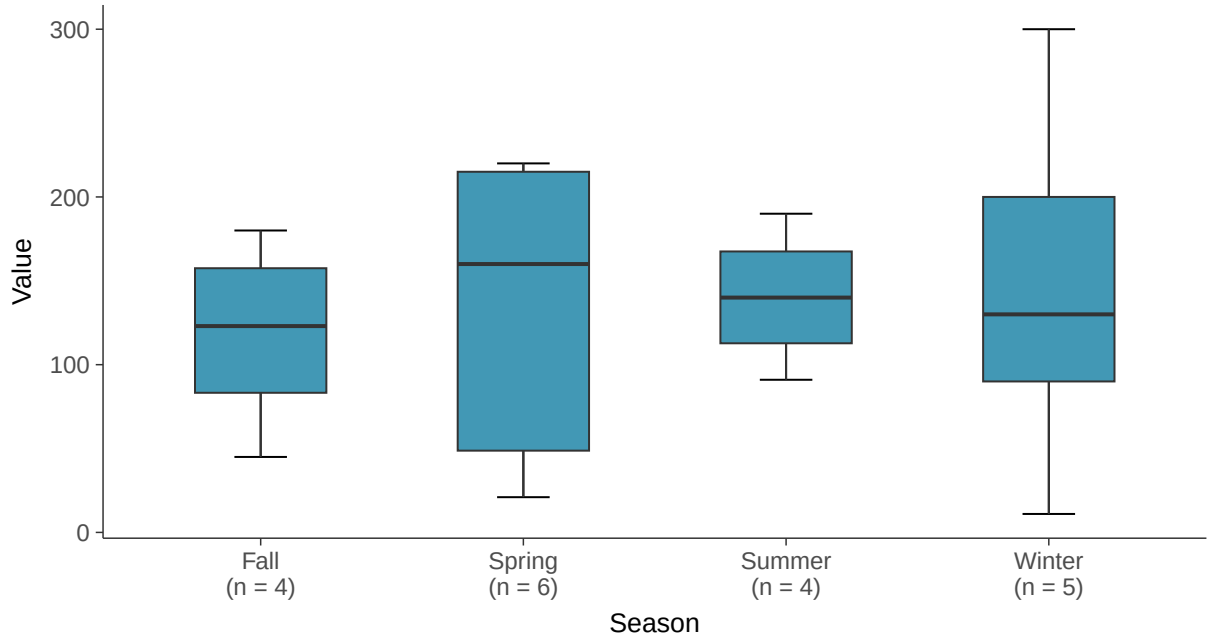
Boxplot

Chloride (as Cl), MW-04 (mg/L)



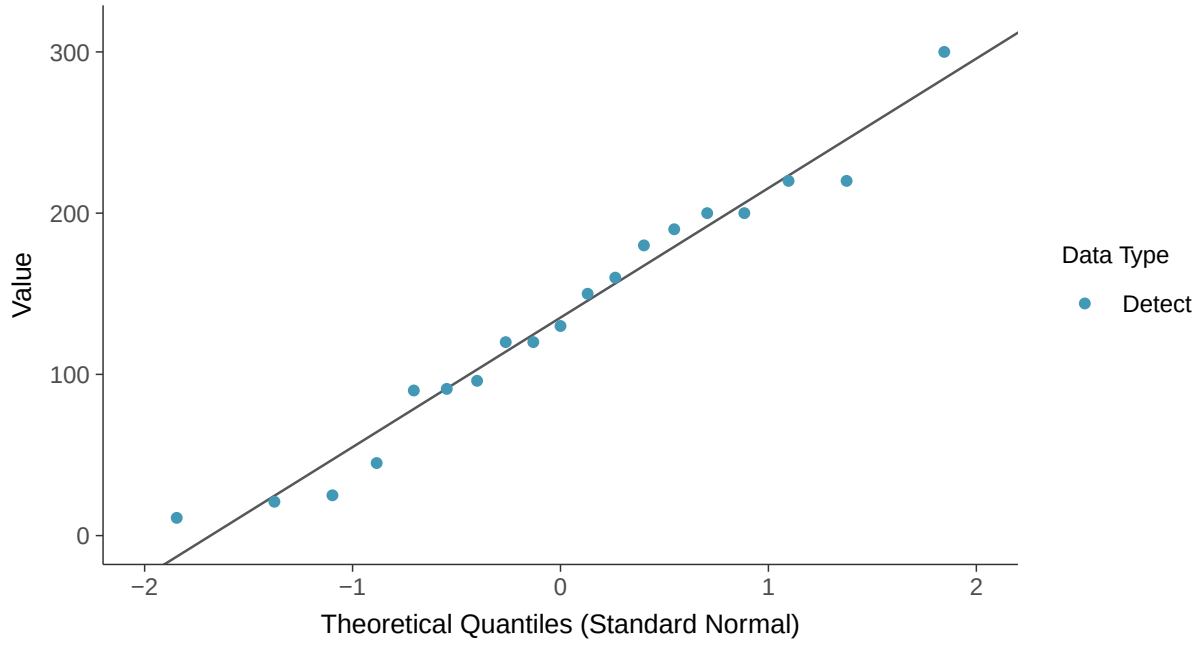
Boxplot by Season

Chloride (as Cl), MW-04 (mg/L)



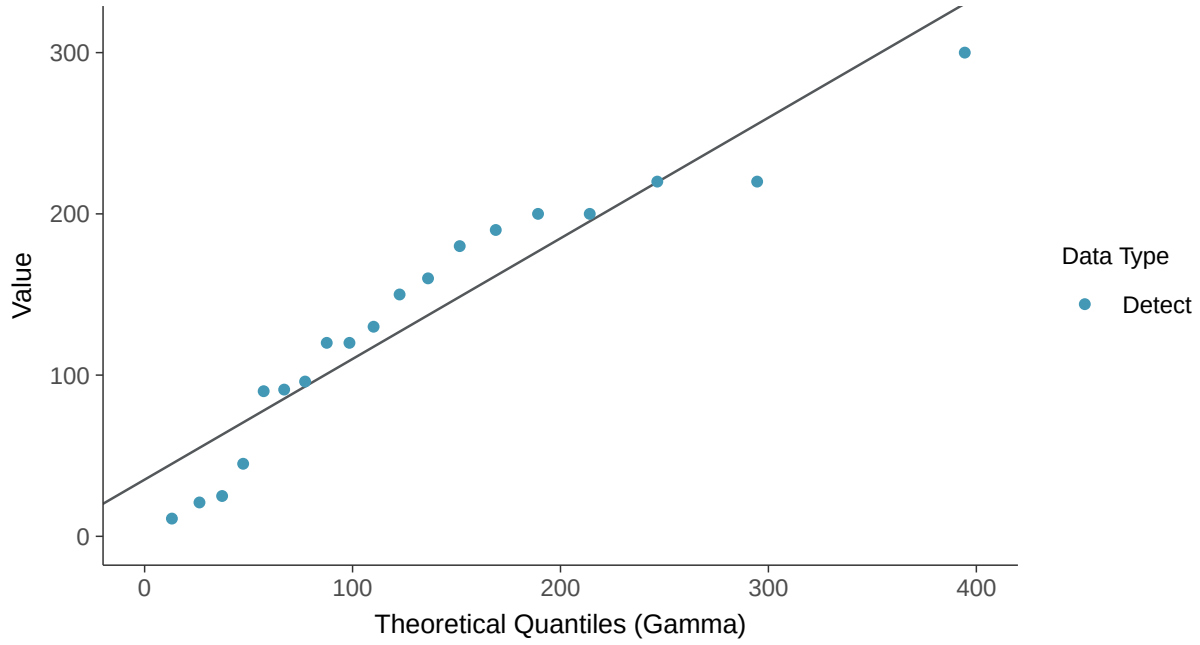
Normal Q-Q plot

Chloride (as Cl), MW-04 (mg/L)



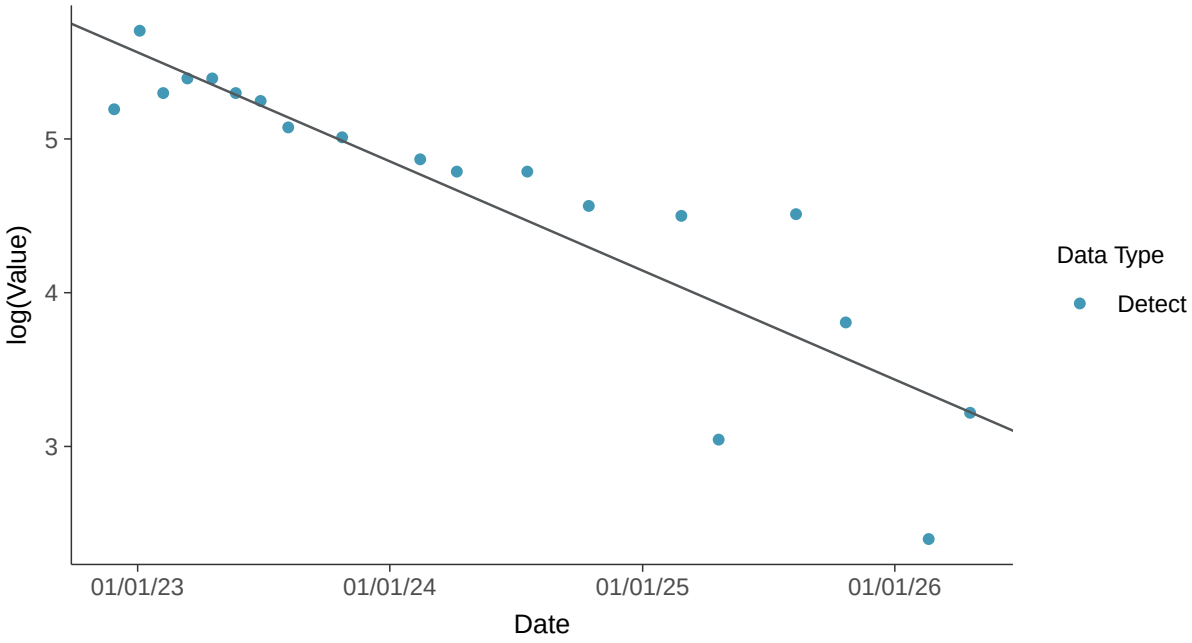
Gamma Q-Q plot

Chloride (as Cl), MW-04 (mg/L)



Trend Regression: Lognormal MLE

Chloride (as Cl), MW-04 (mg/L)

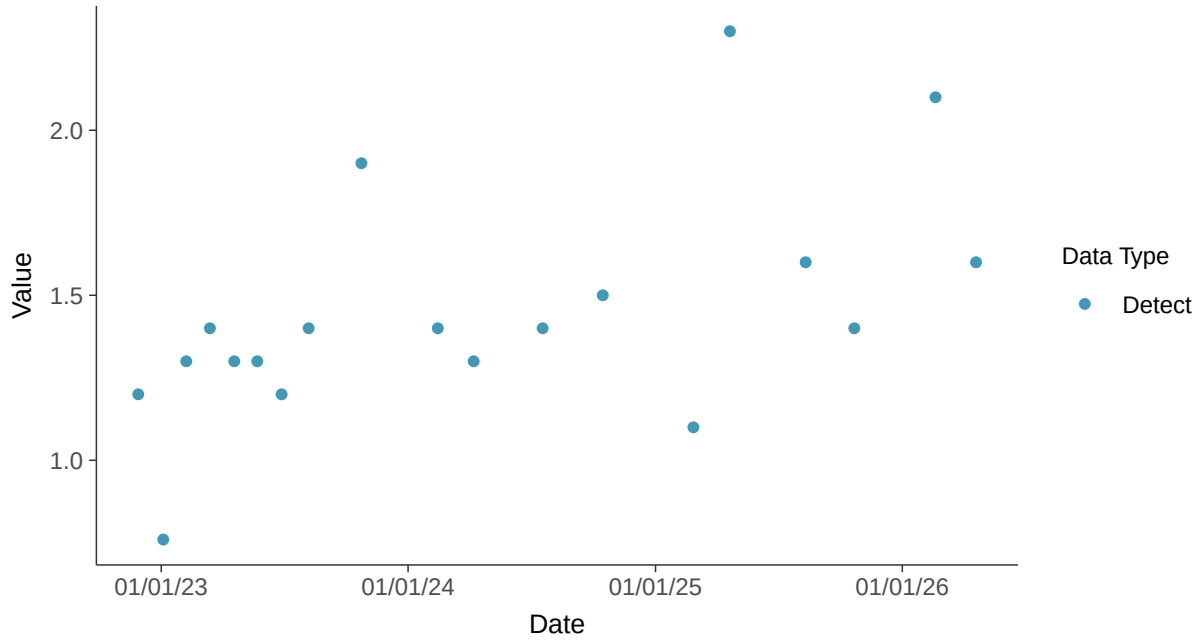


Appendix III: Fluoride, MW-04

ID: 14_2_3_112

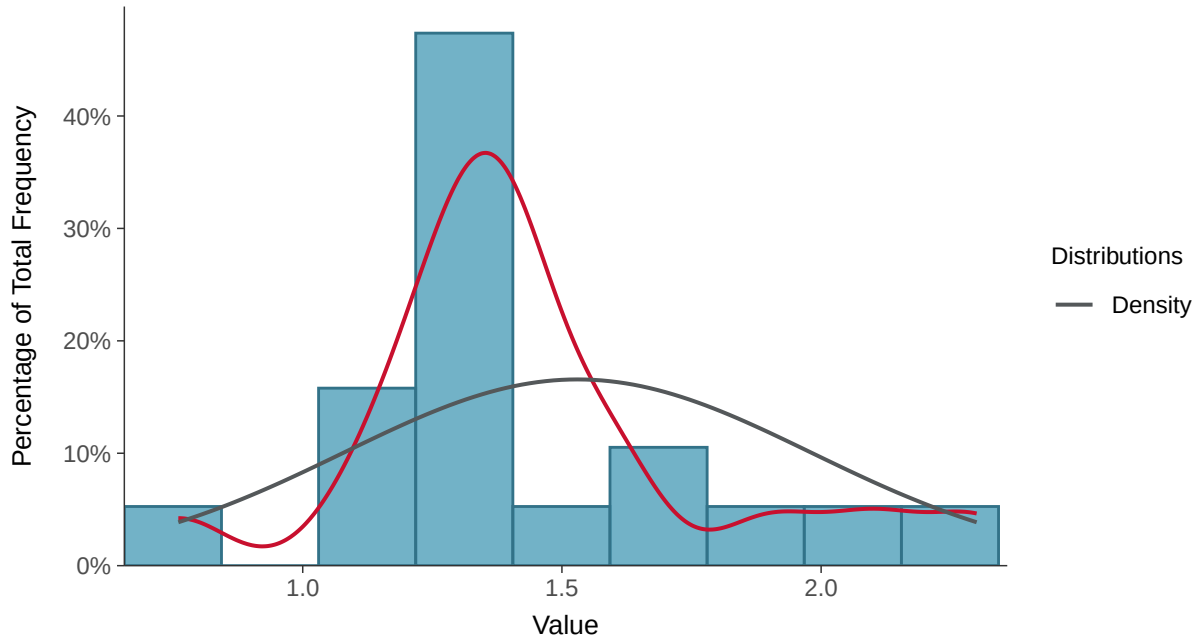
Scatter Plot

Fluoride, MW-04 (mg/L)



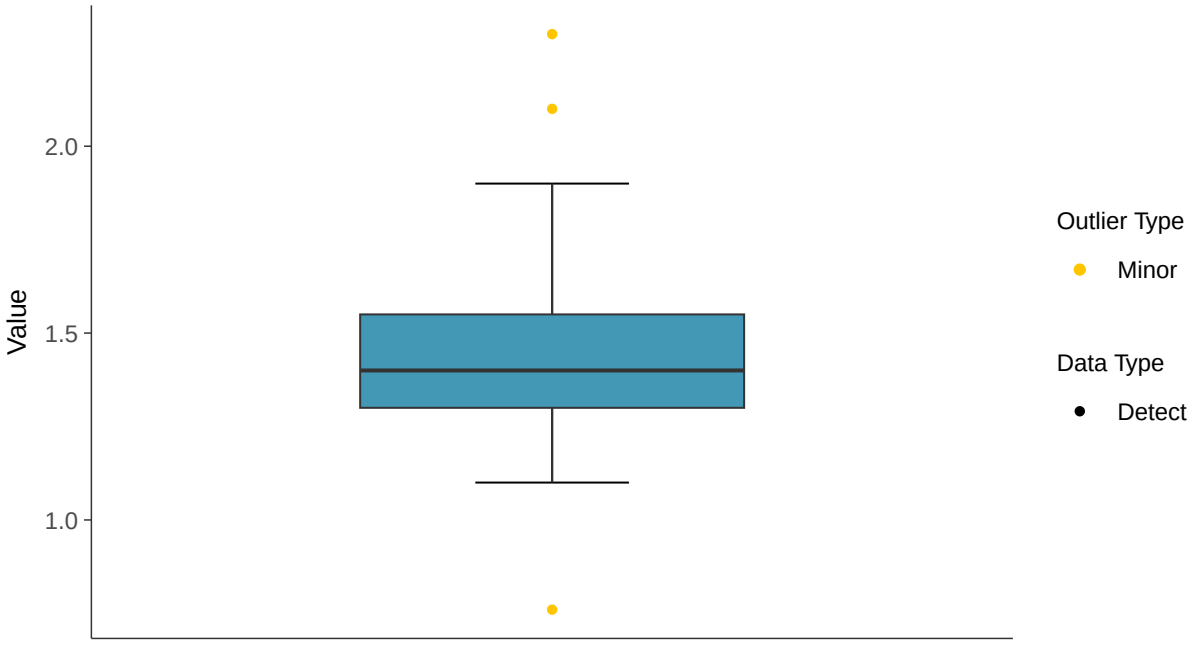
Histogram

Fluoride, MW-04 (mg/L)



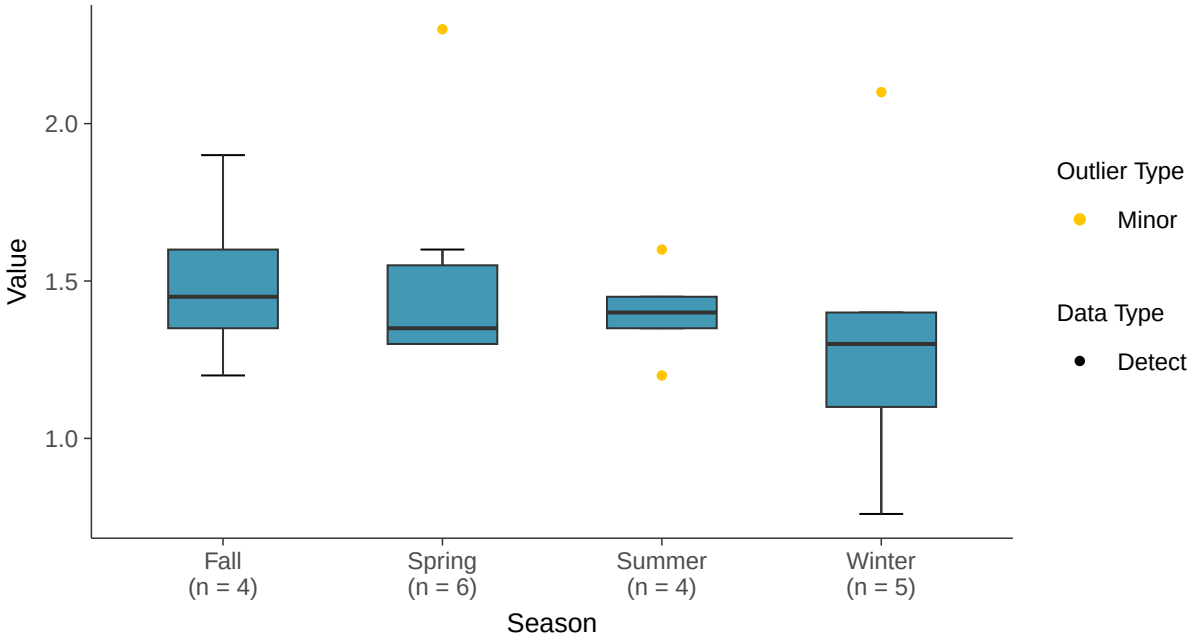
Boxplot

Fluoride, MW-04 (mg/L)



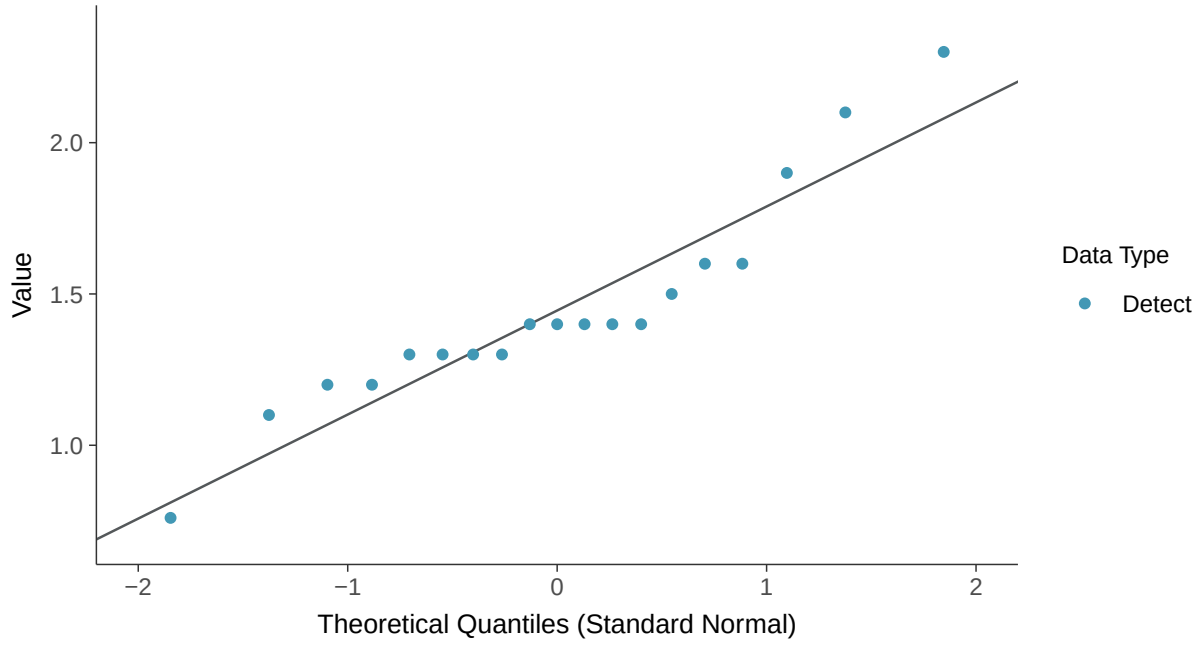
Boxplot by Season

Fluoride, MW-04 (mg/L)



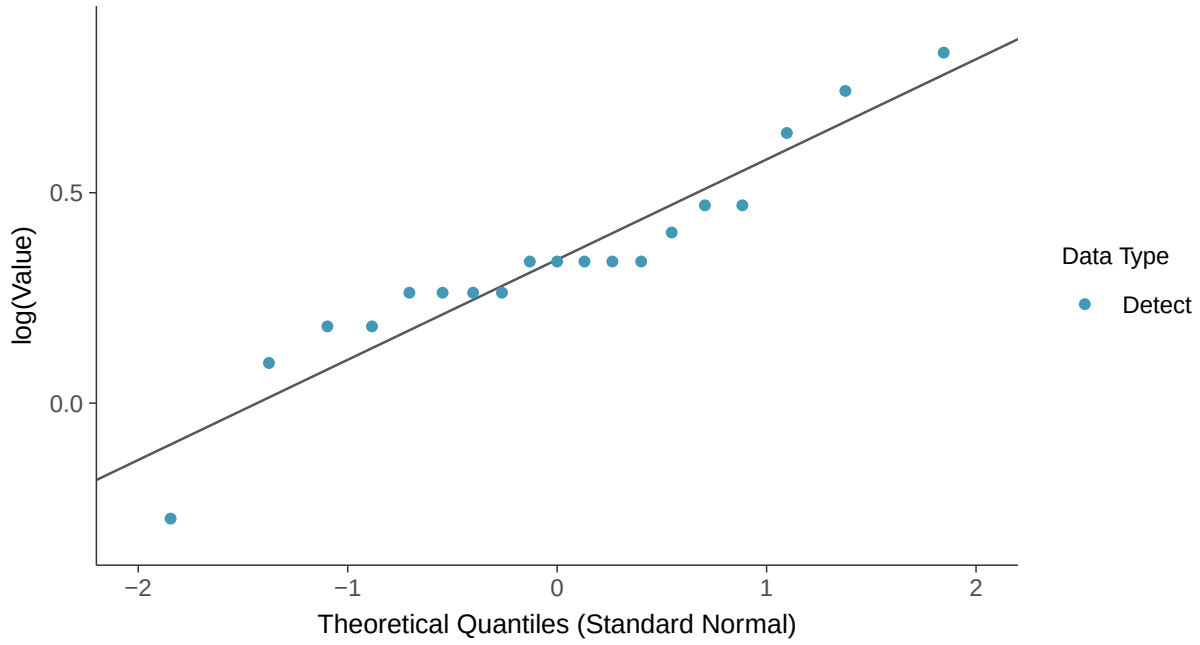
Normal Q-Q plot

Fluoride, MW-04 (mg/L)



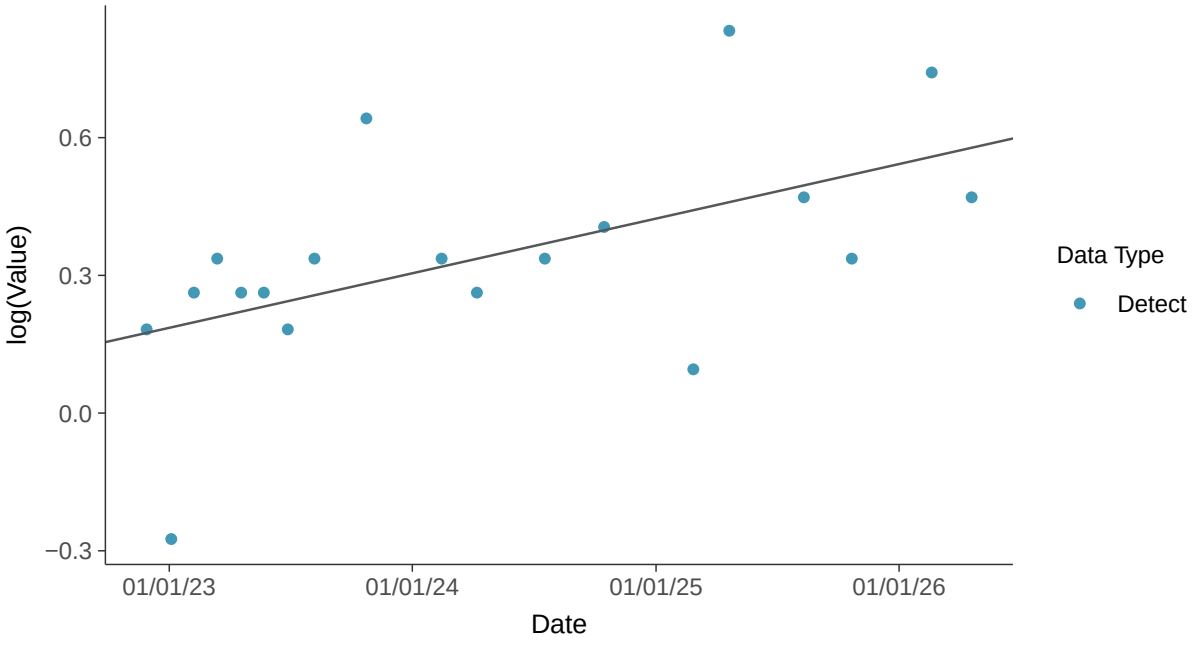
Lognormal Q-Q plot

Fluoride, MW-04 (mg/L)



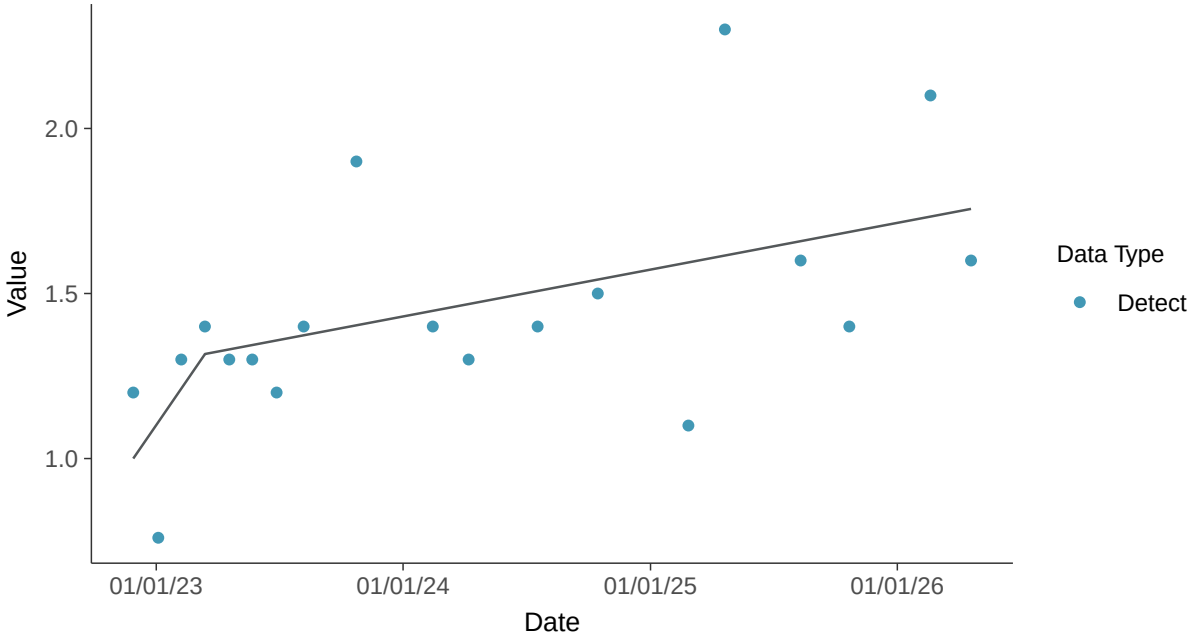
Trend Regression: Lognormal MLE

Fluoride, MW-04 (mg/L)



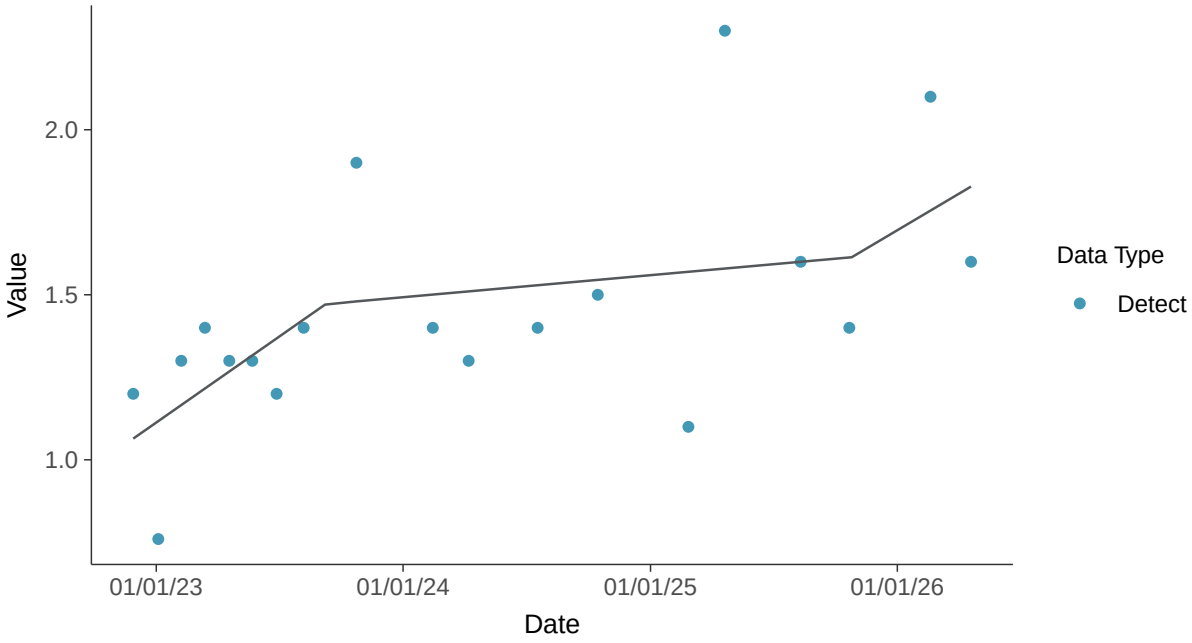
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-04 (mg/L)

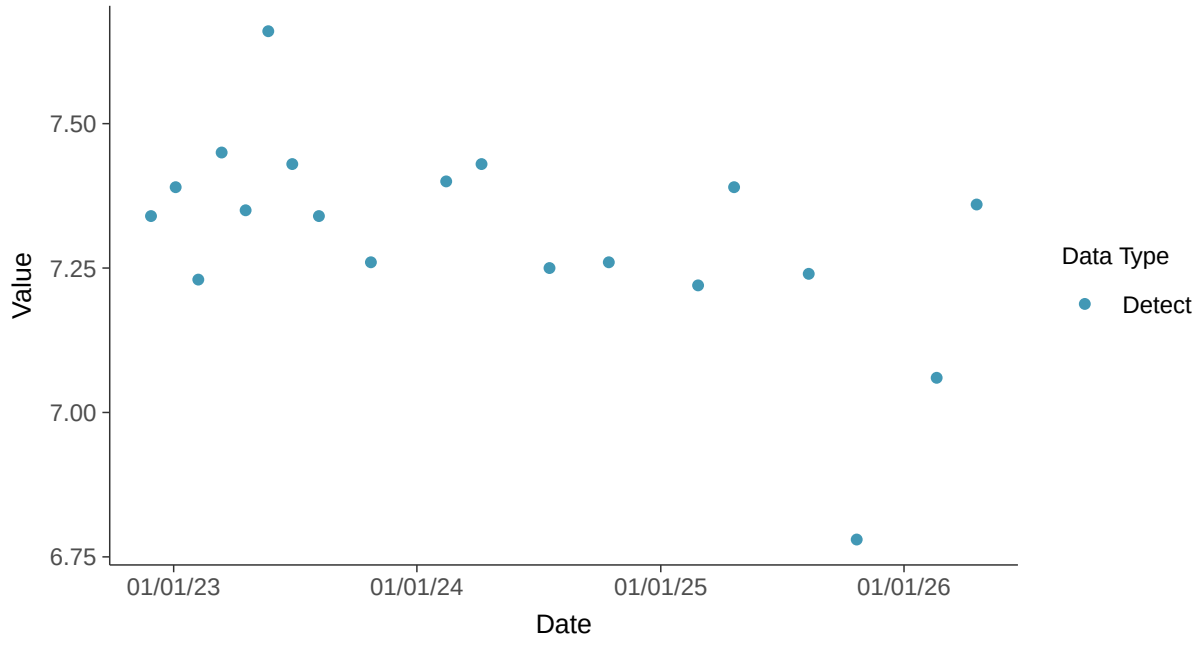


Appendix III: pH (field), MW-04

ID: 14_2_3_120

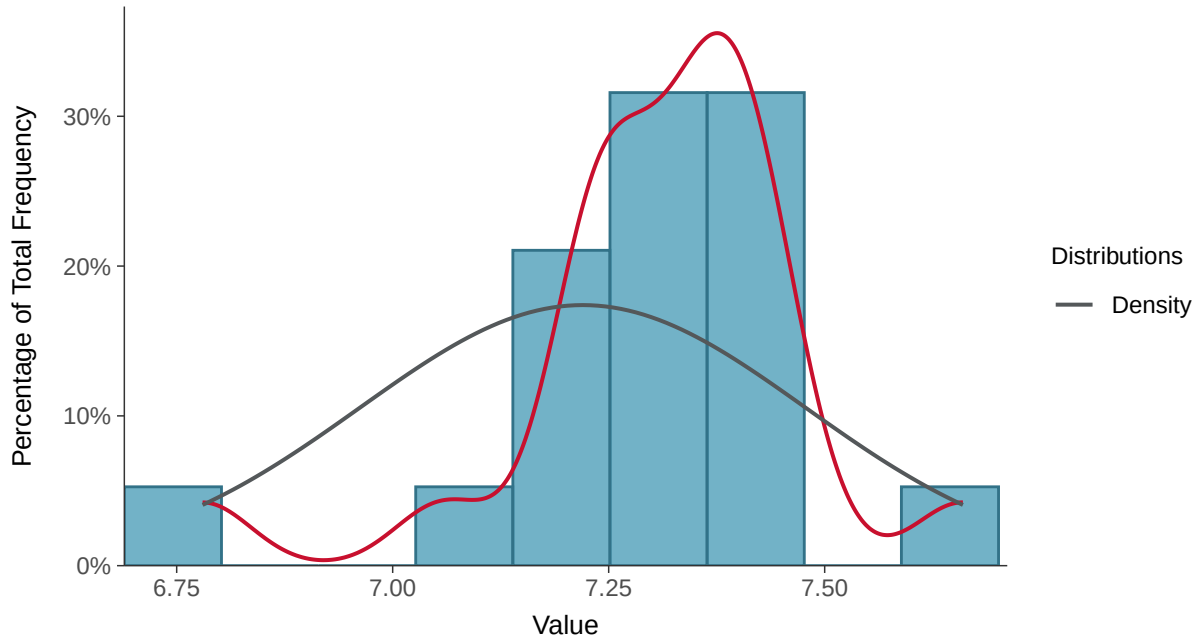
Scatter Plot

pH (field), MW-04 (su)



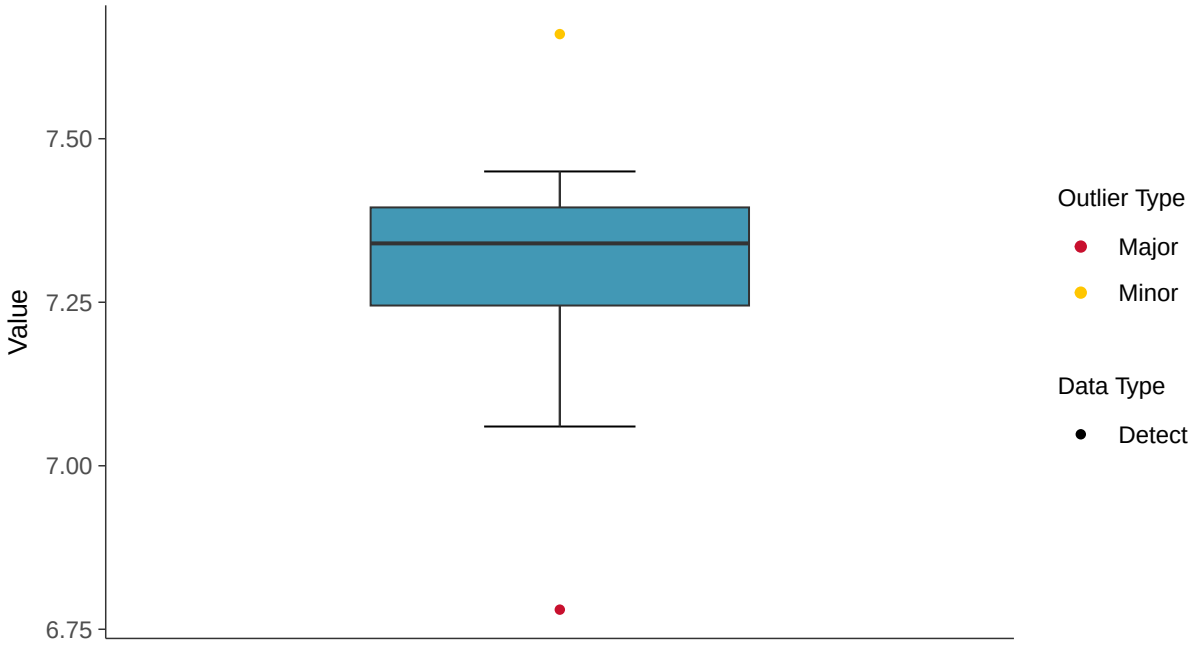
Histogram

pH (field), MW-04 (su)



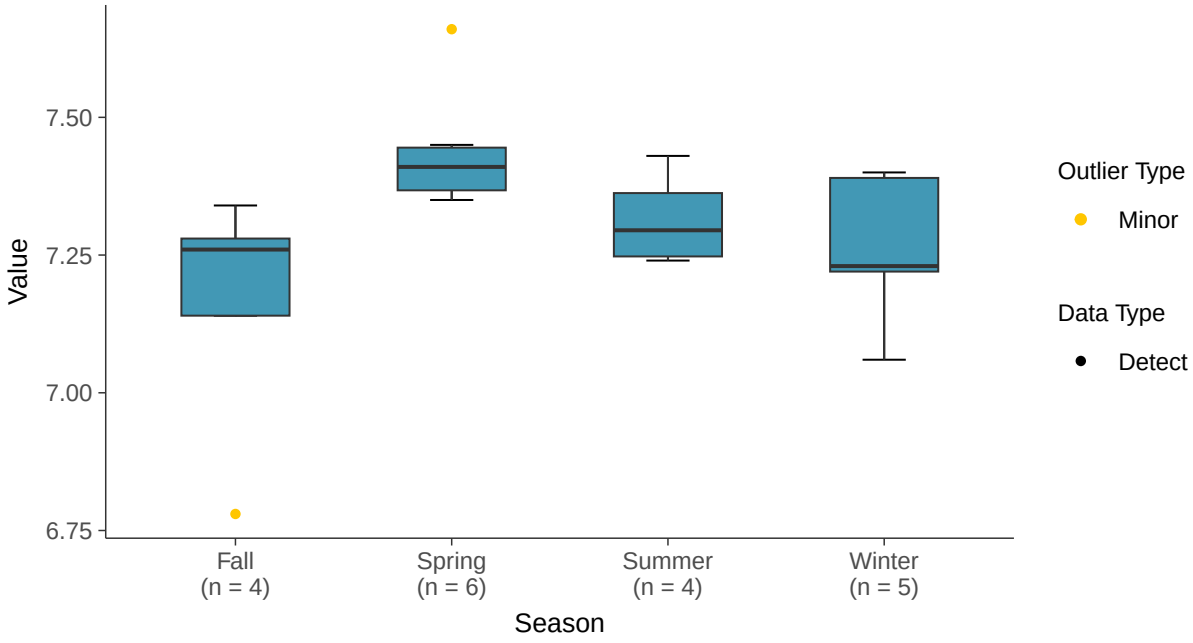
Boxplot

pH (field), MW-04 (su)



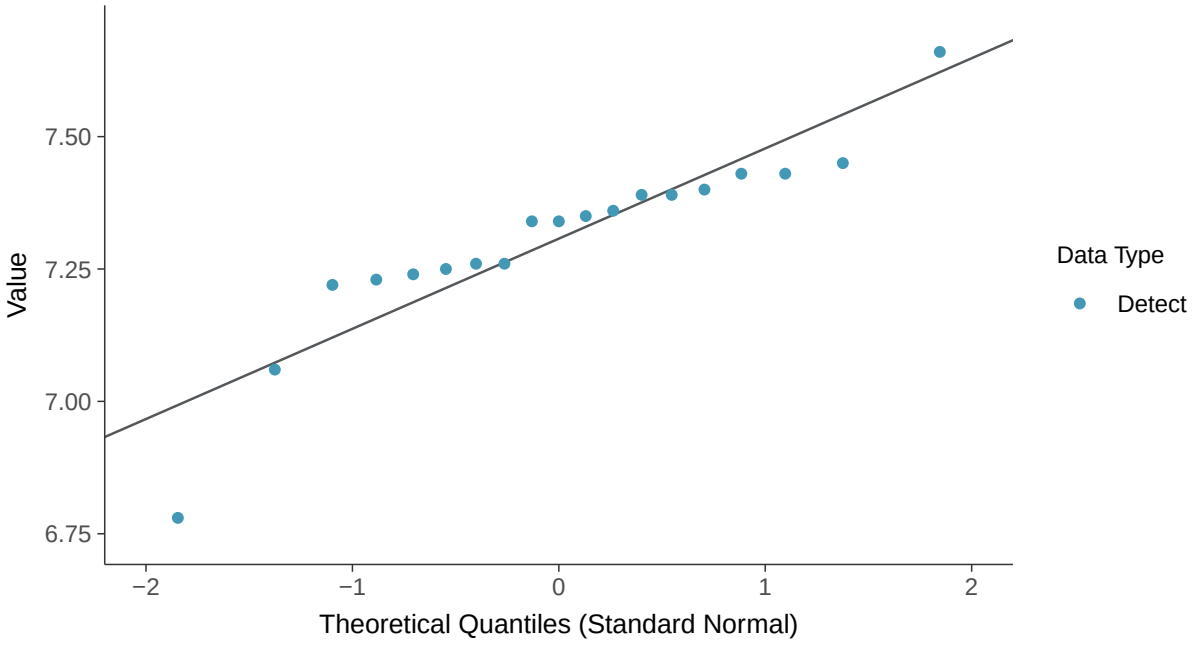
Boxplot by Season

pH (field), MW-04 (su)



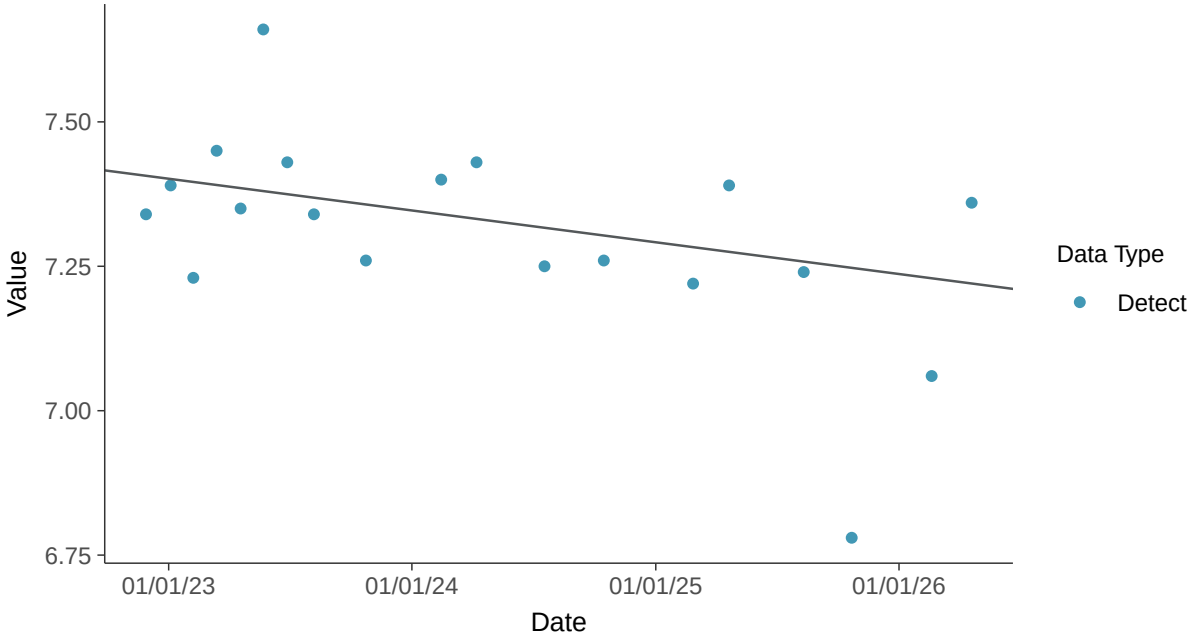
Normal Q-Q plot

pH (field), MW-04 (su)



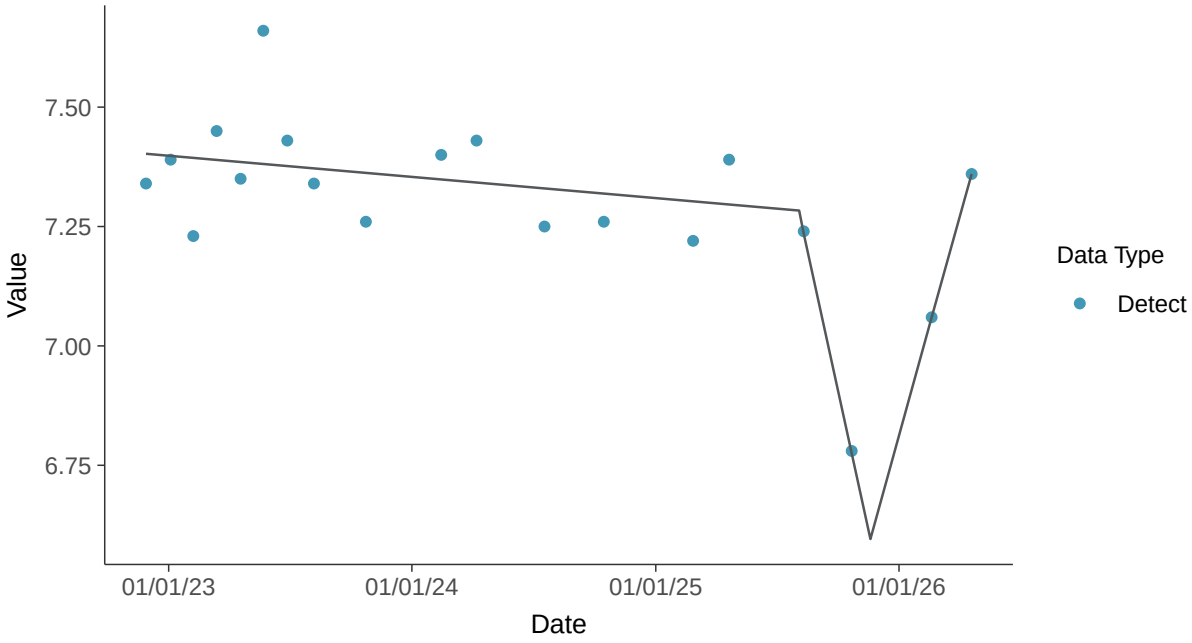
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-04 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-04 (su)

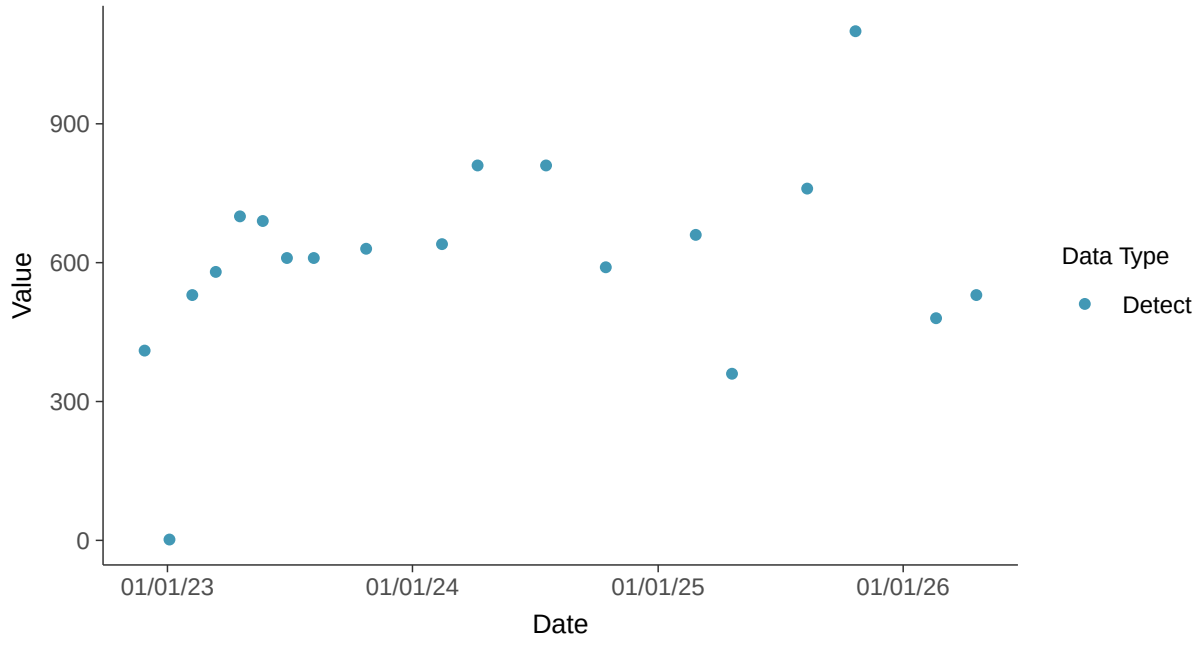


Appendix III: Sulfate (as SO4), MW-04

ID: 14_2_3_124

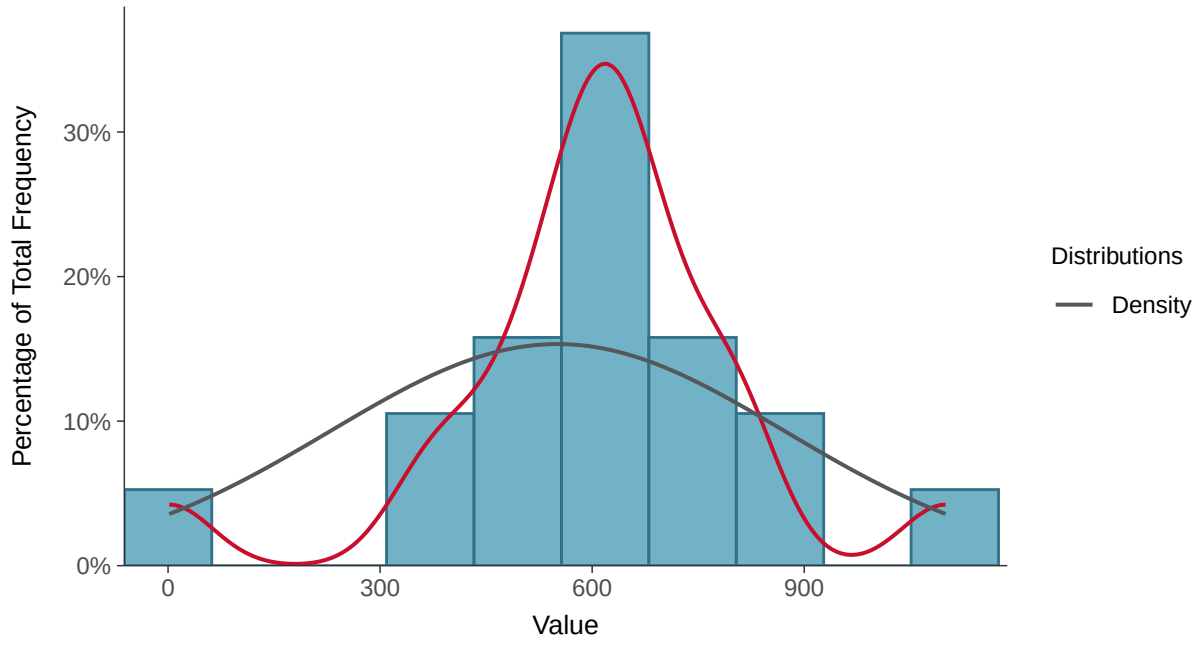
Scatter Plot

Sulfate (as SO4), MW-04 (mg/L)



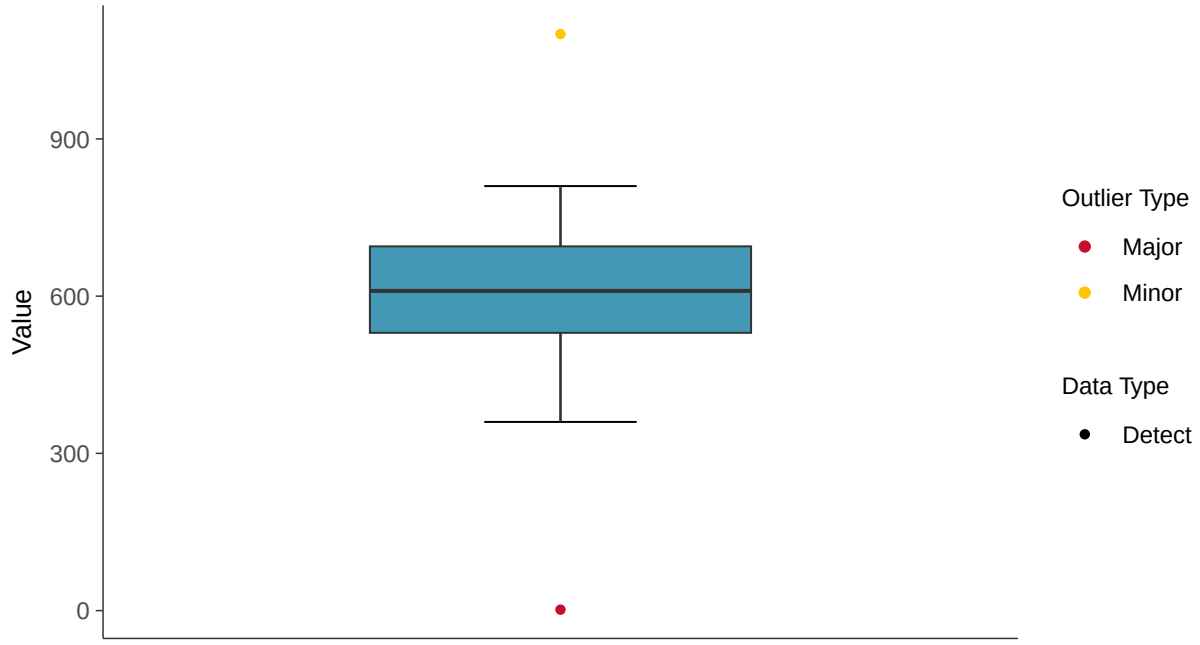
Histogram

Sulfate (as SO4), MW-04 (mg/L)



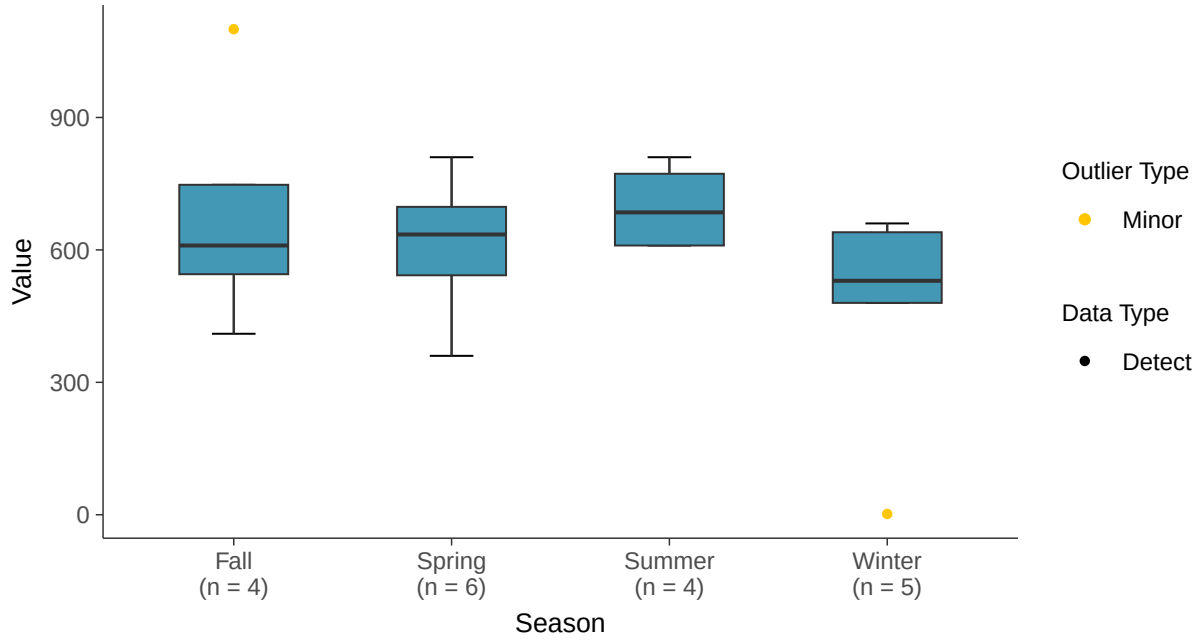
Boxplot

Sulfate (as SO4), MW-04 (mg/L)



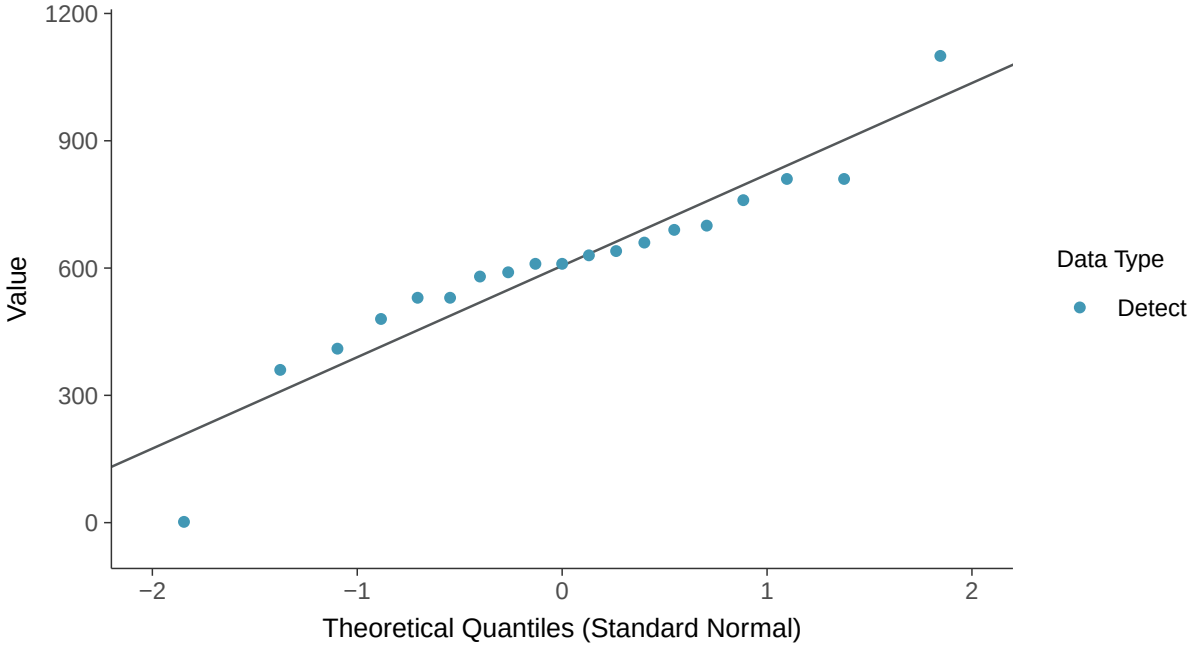
Boxplot by Season

Sulfate (as SO4), MW-04 (mg/L)



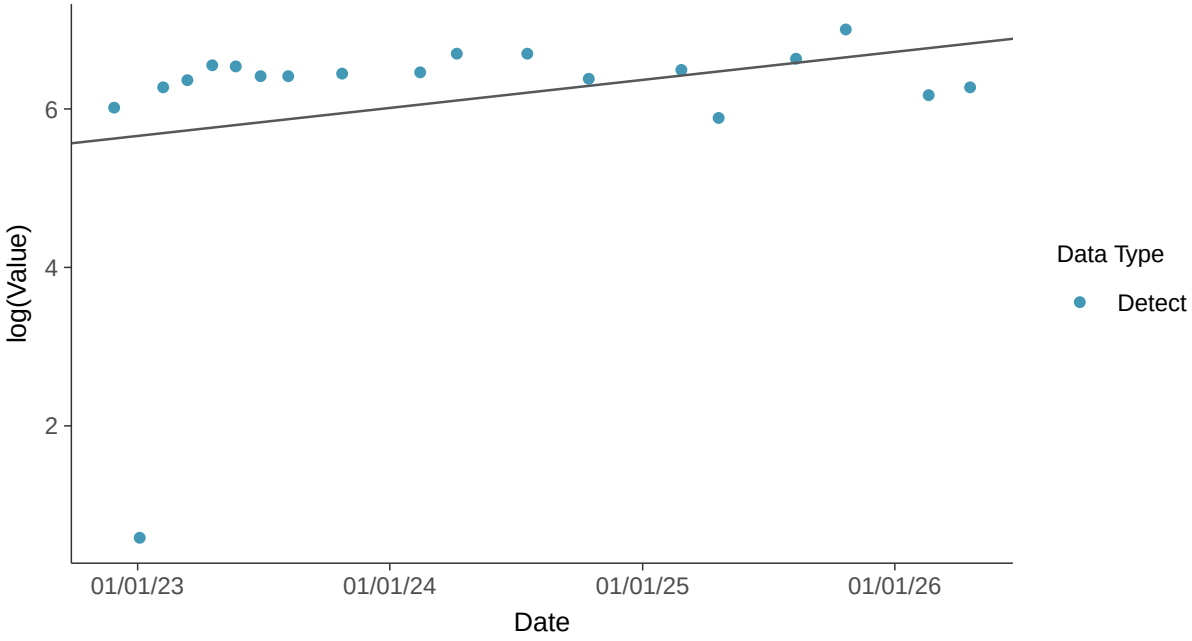
Normal Q-Q plot

Sulfate (as SO4), MW-04 (mg/L)



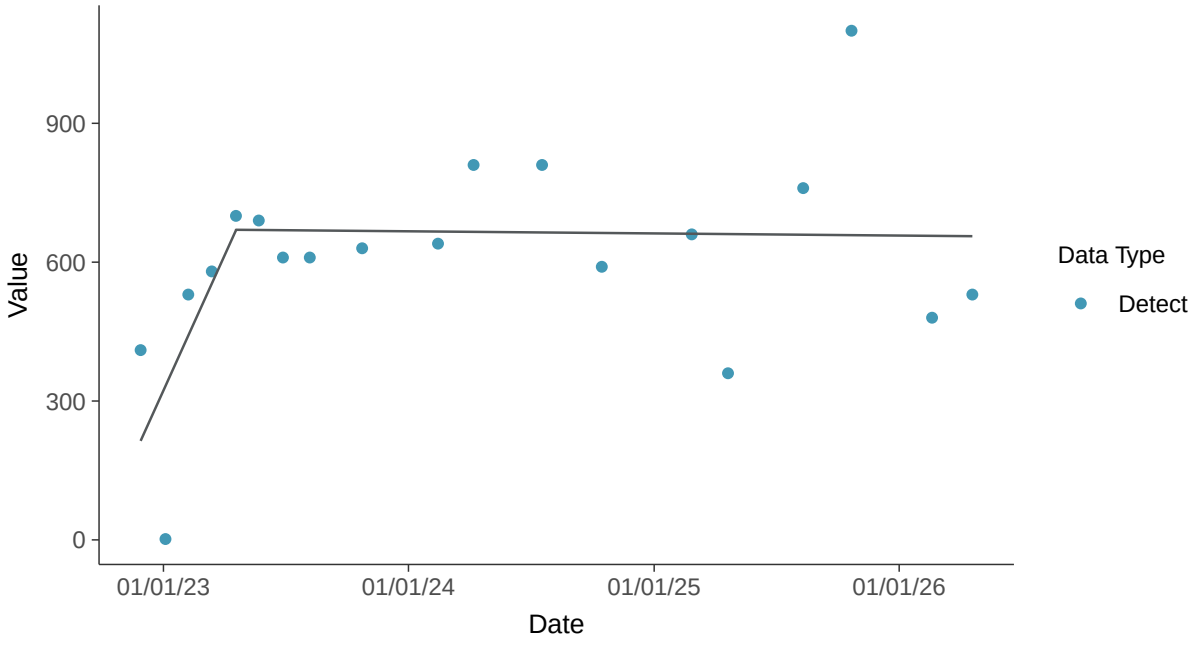
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-04 (mg/L)



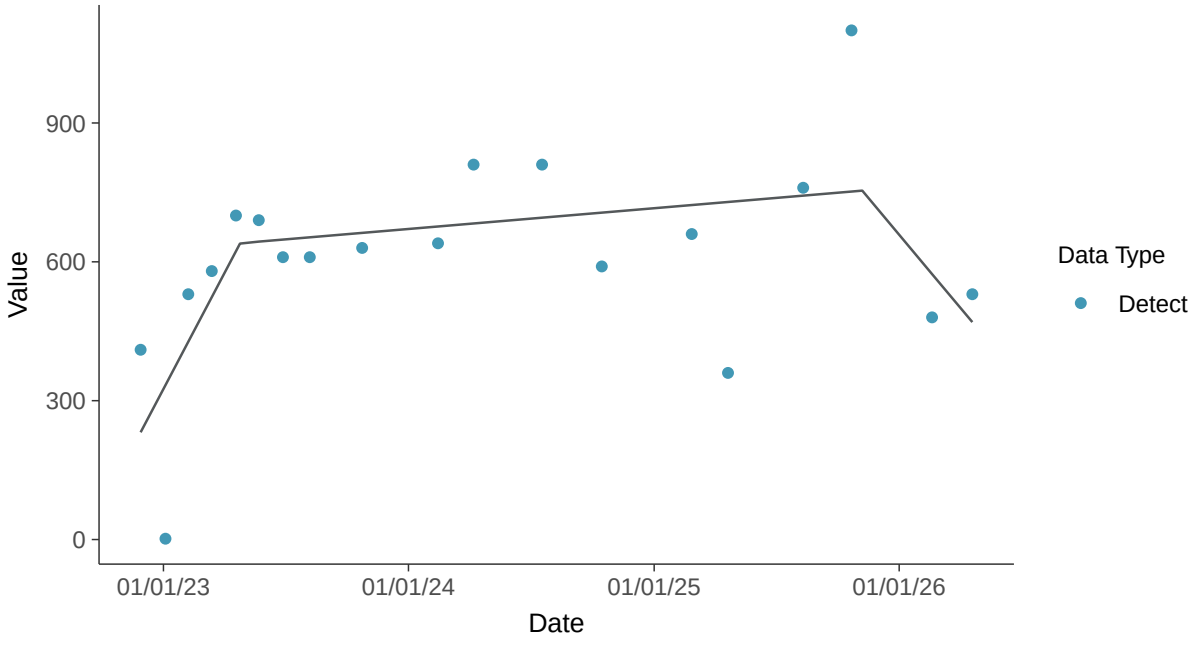
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-04 (mg/L)

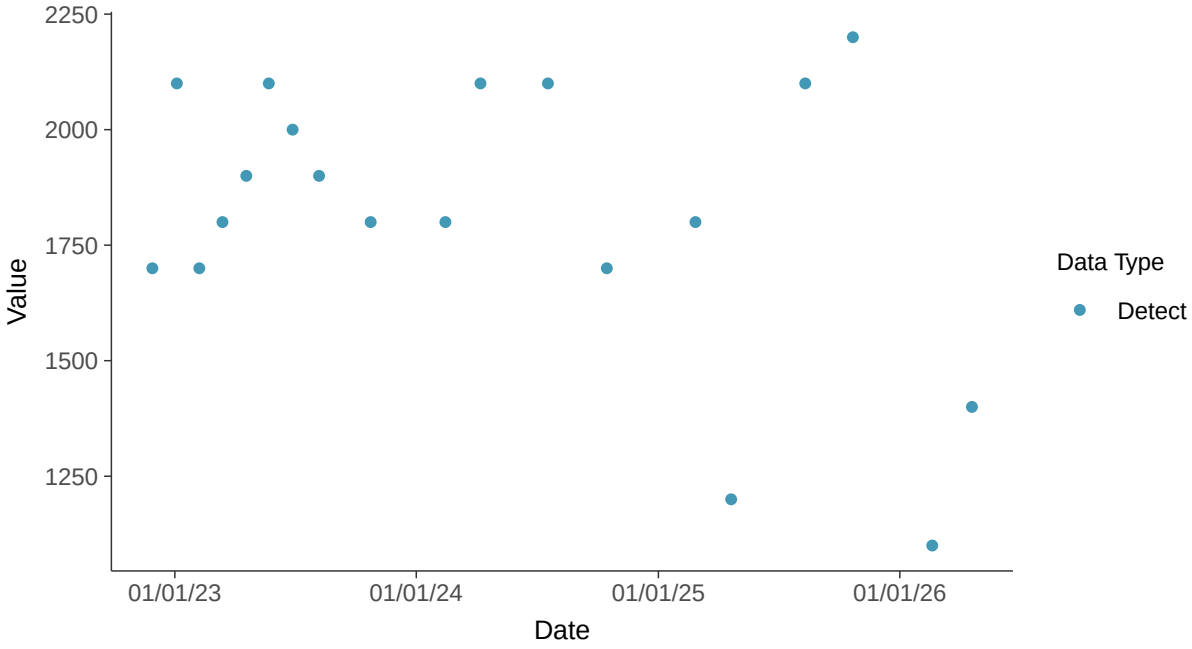


Appendix III: Total Dissolved Solids, MW-04

ID: 14_2_3_126

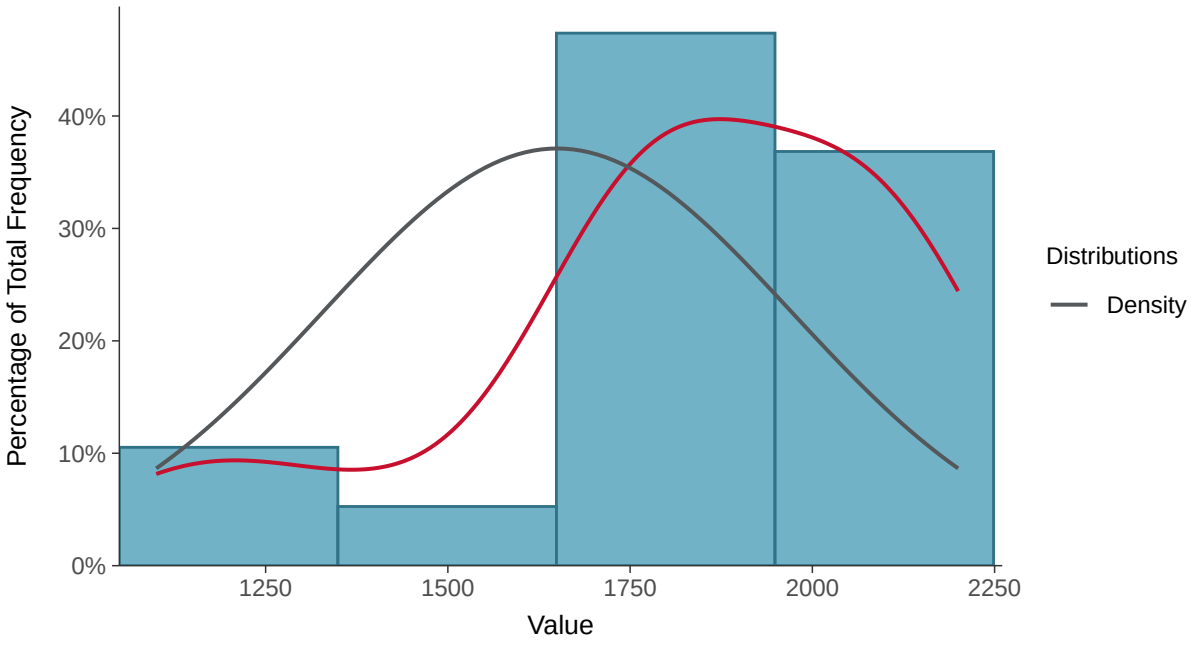
Scatter Plot

Total Dissolved Solids, MW-04 (mg/L)



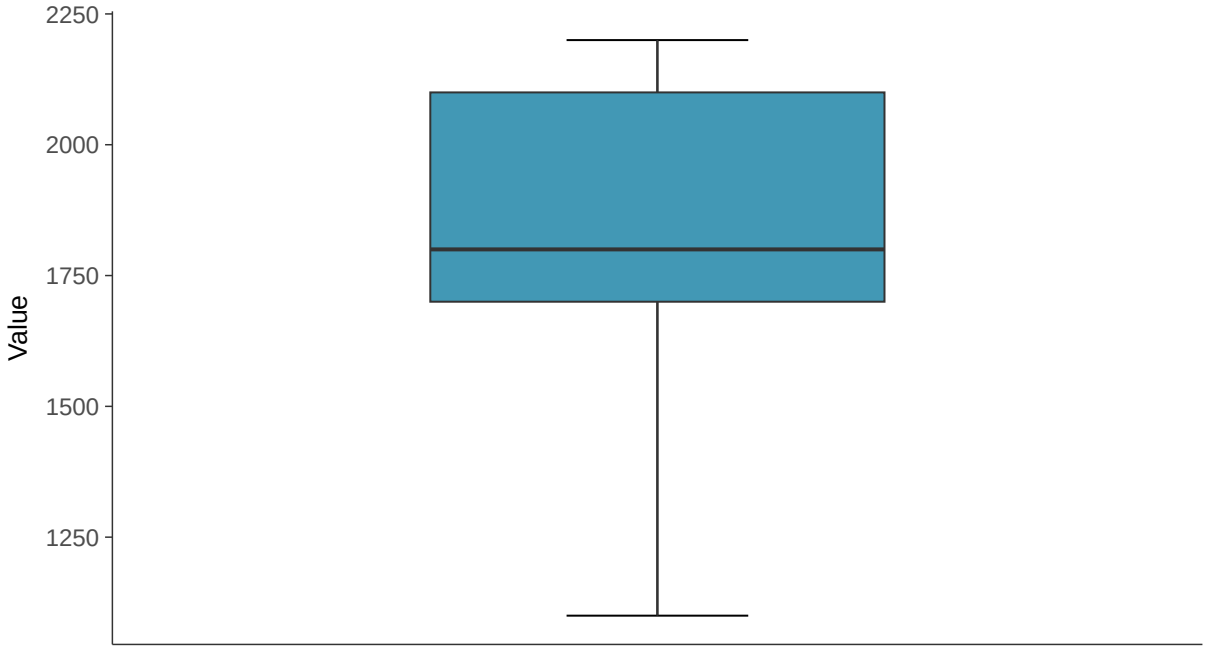
Histogram

Total Dissolved Solids, MW-04 (mg/L)



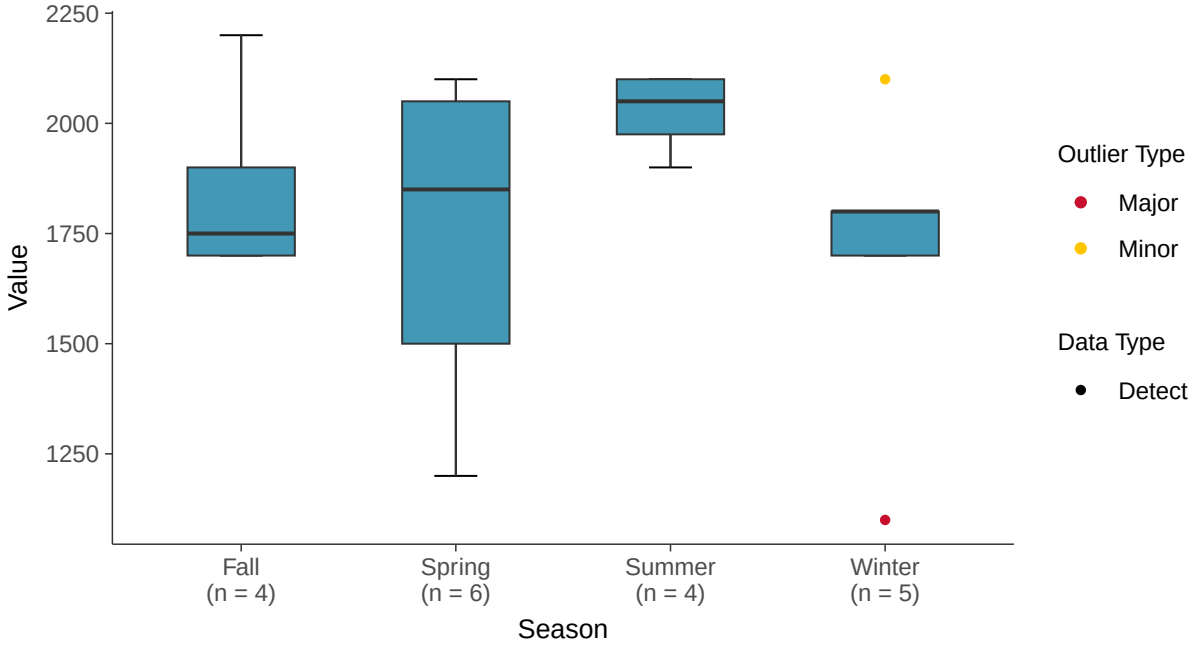
Boxplot

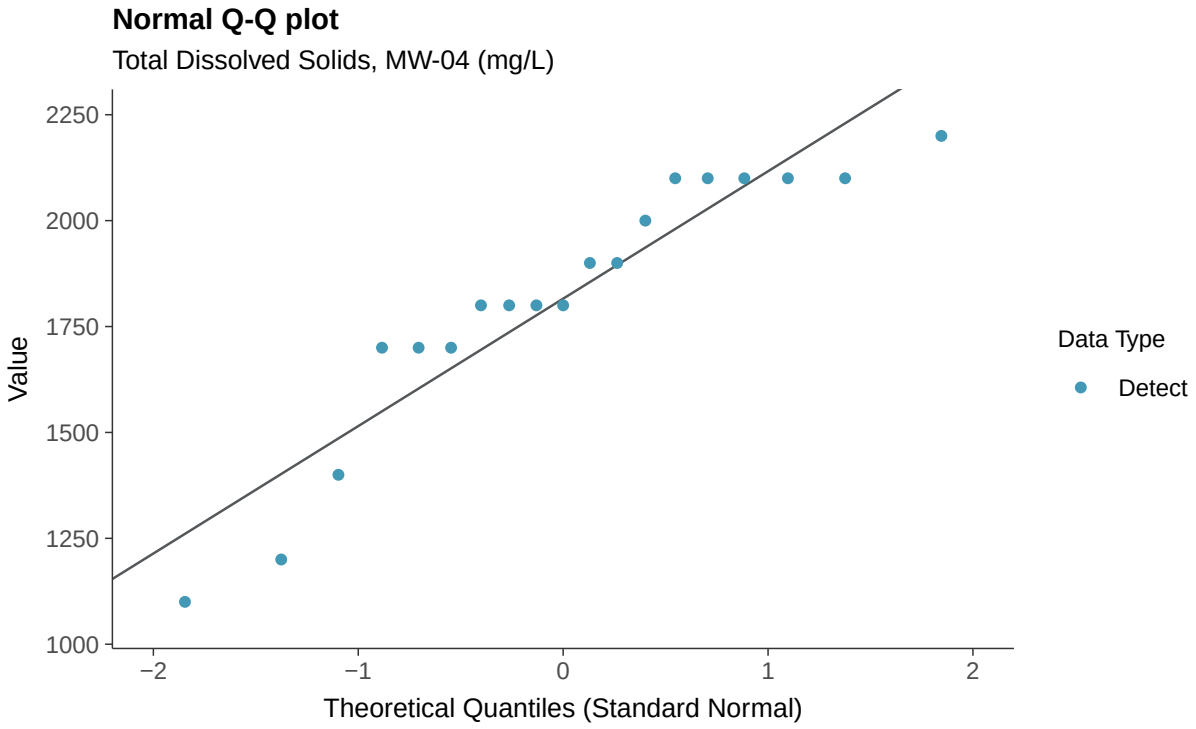
Total Dissolved Solids, MW-04 (mg/L)

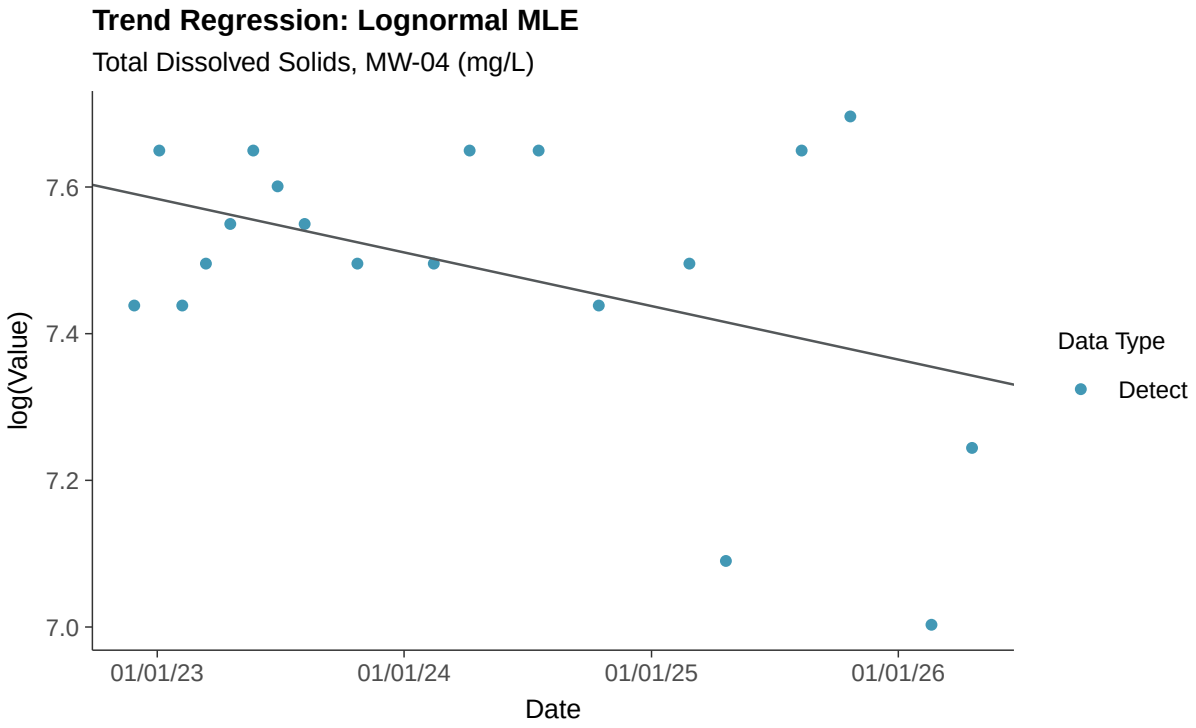


Boxplot by Season

Total Dissolved Solids, MW-04 (mg/L)

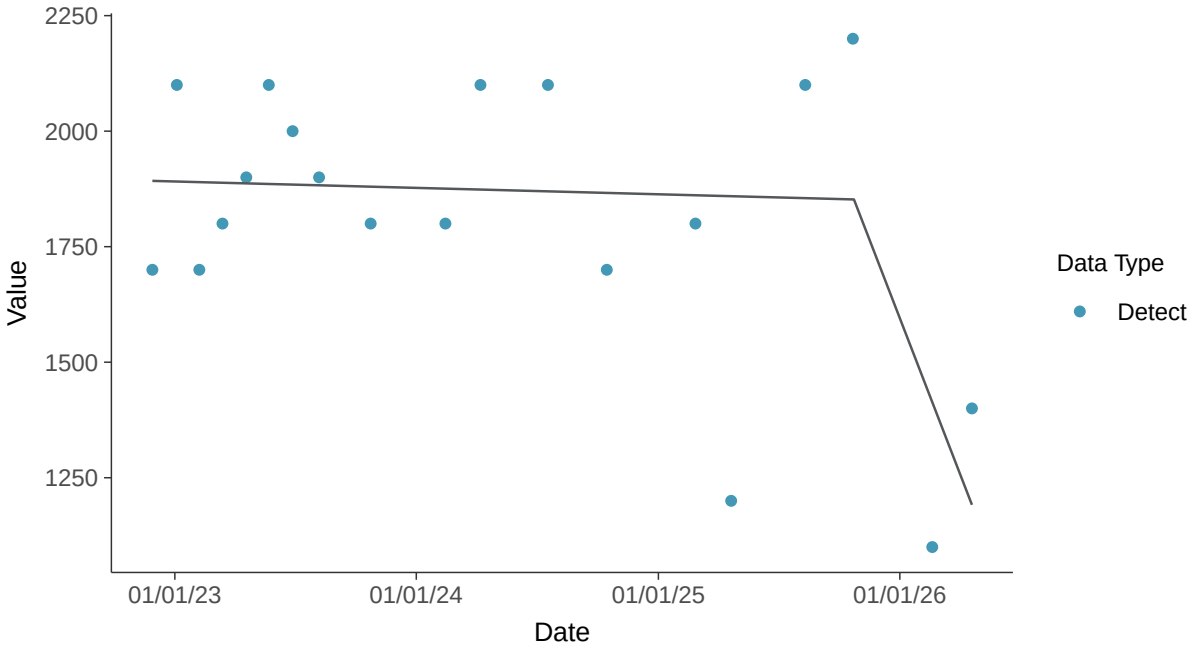



Normal Q-Q plot
Total Dissolved Solids, MW-04 (mg/L)
Value
2250
2000
1750
1500
1250
1000
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Trend Regression: Lognormal MLE
Total Dissolved Solids, MW-04 (mg/L)
log(Value)
7.6
7.4
7.2
7.0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

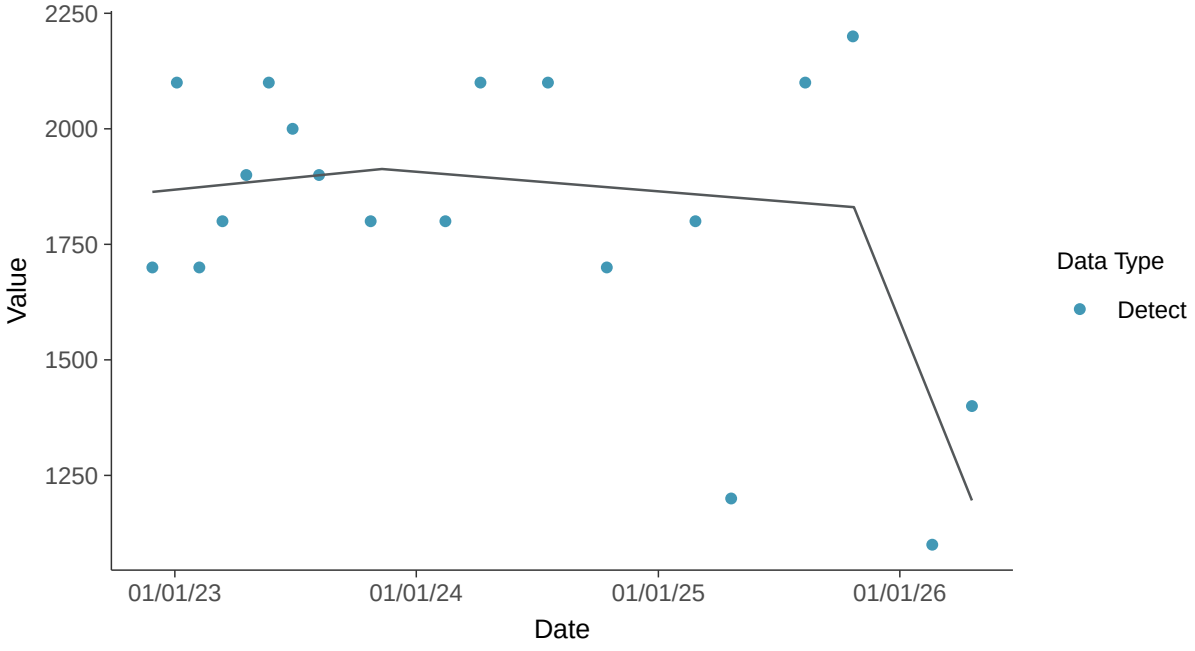
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-04 (mg/L)



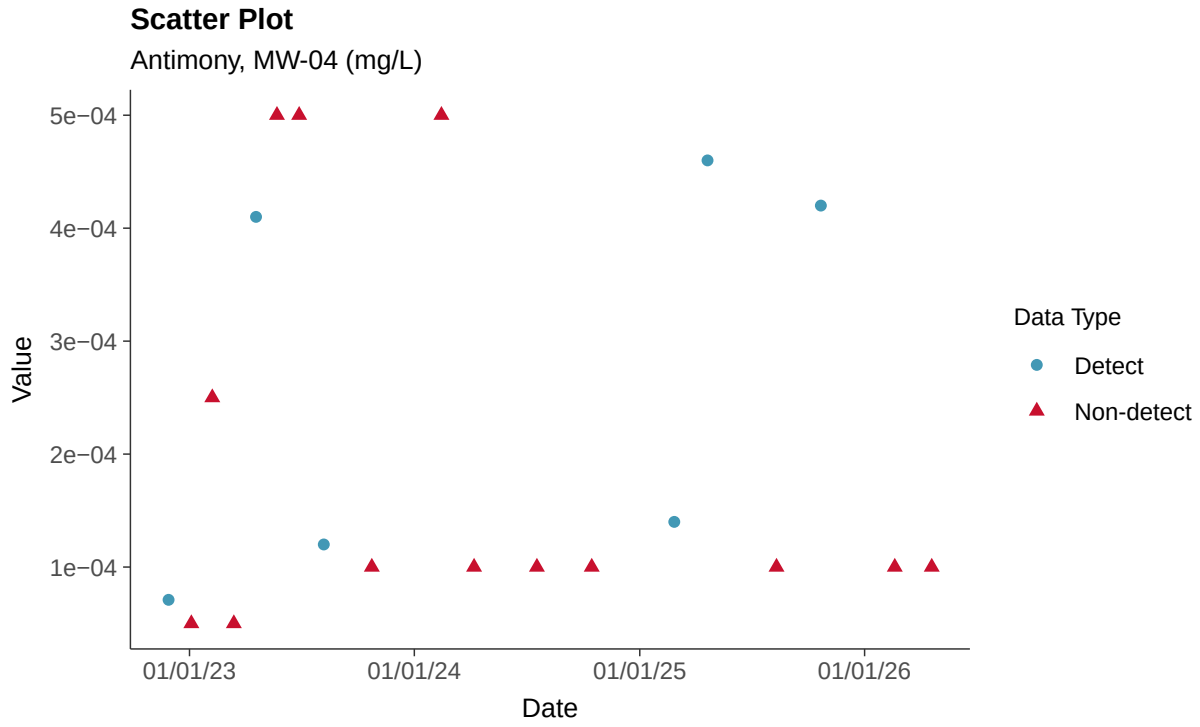
Trend Regression: Piecewise Linear-Linear-Linear

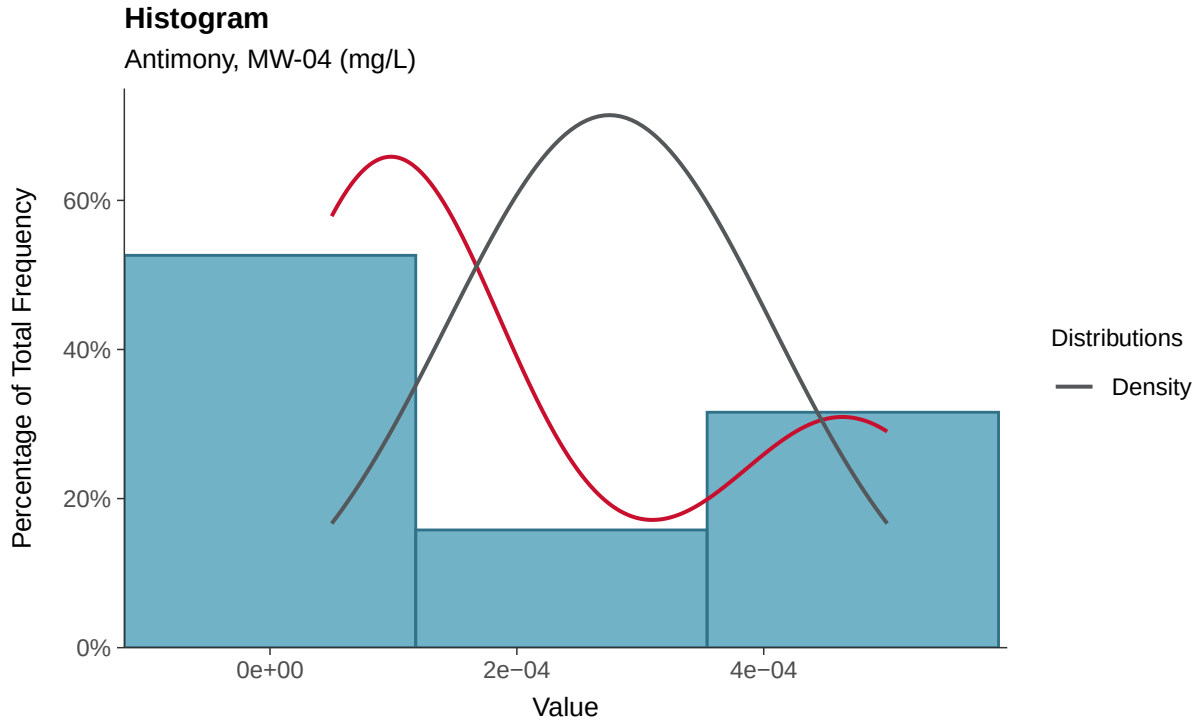
Total Dissolved Solids, MW-04 (mg/L)



Appendix IV: Antimony, MW-04

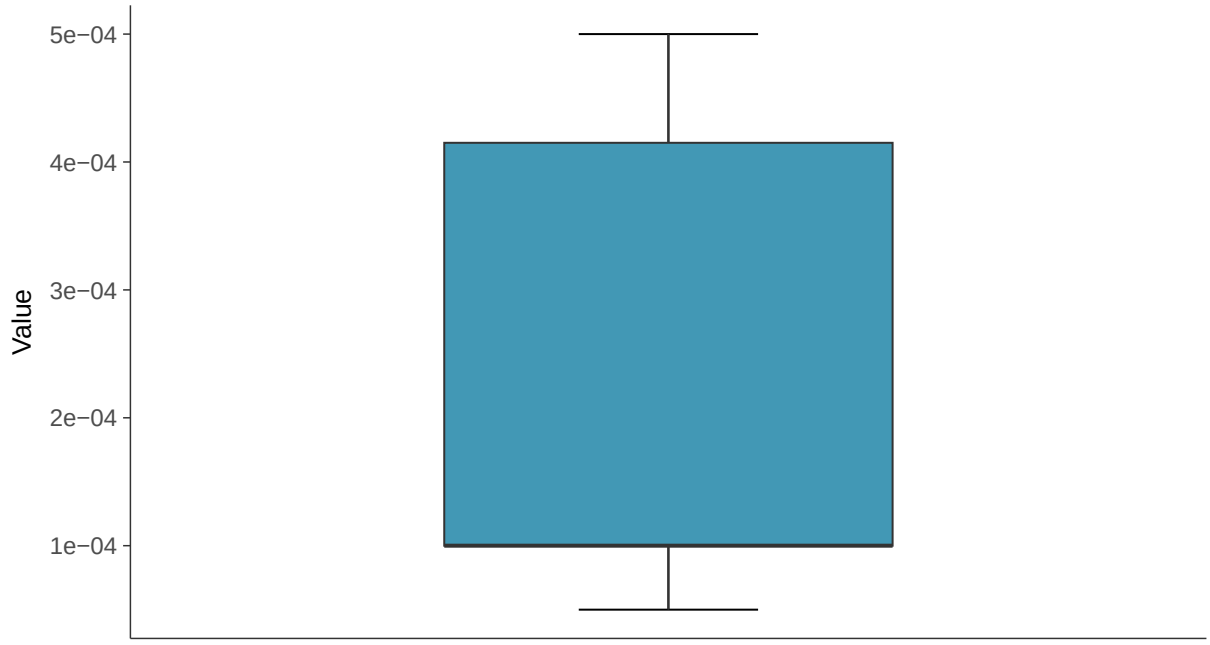
ID: 14_2_4_101





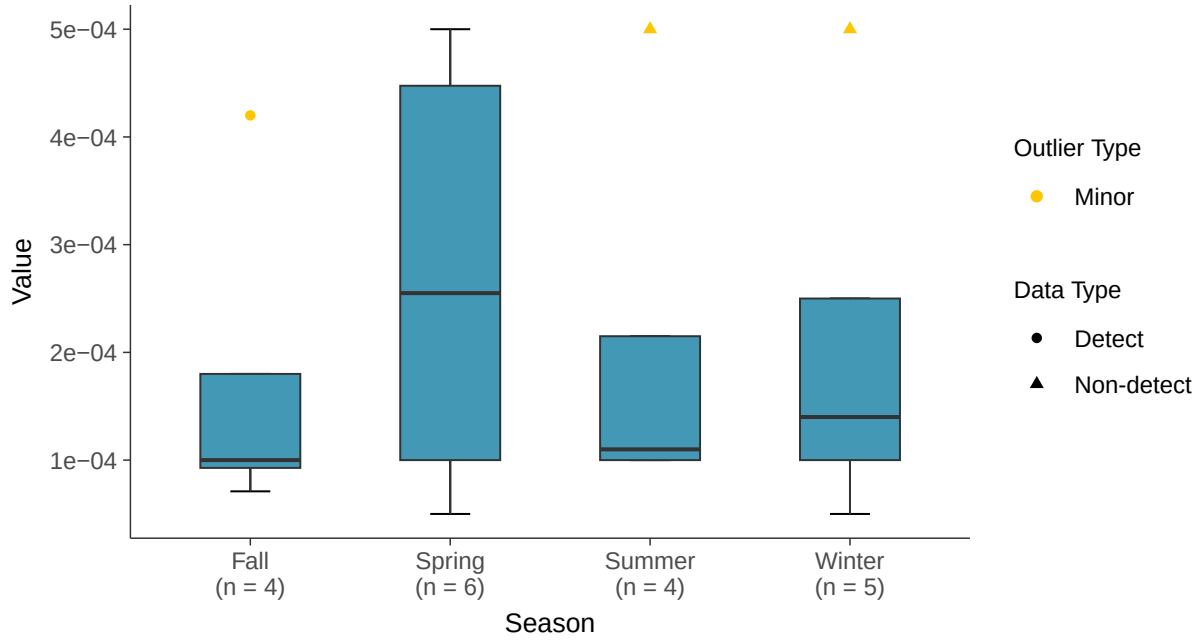
Boxplot

Antimony, MW-04 (mg/L)



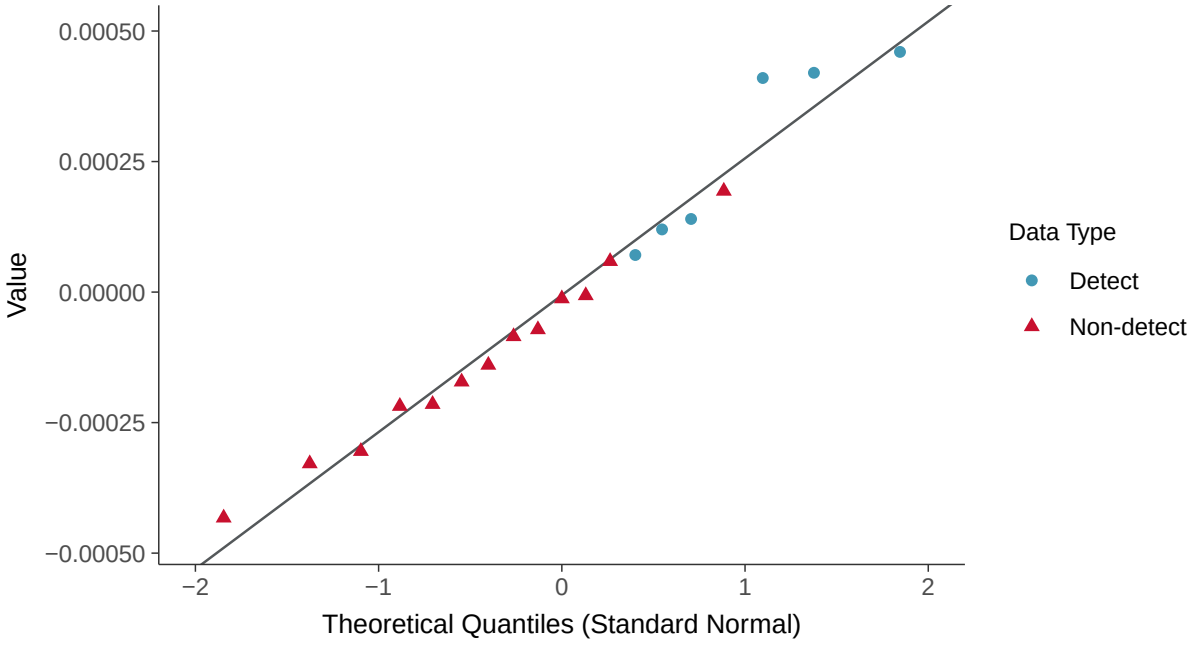
Boxplot by Season

Antimony, MW-04 (mg/L)



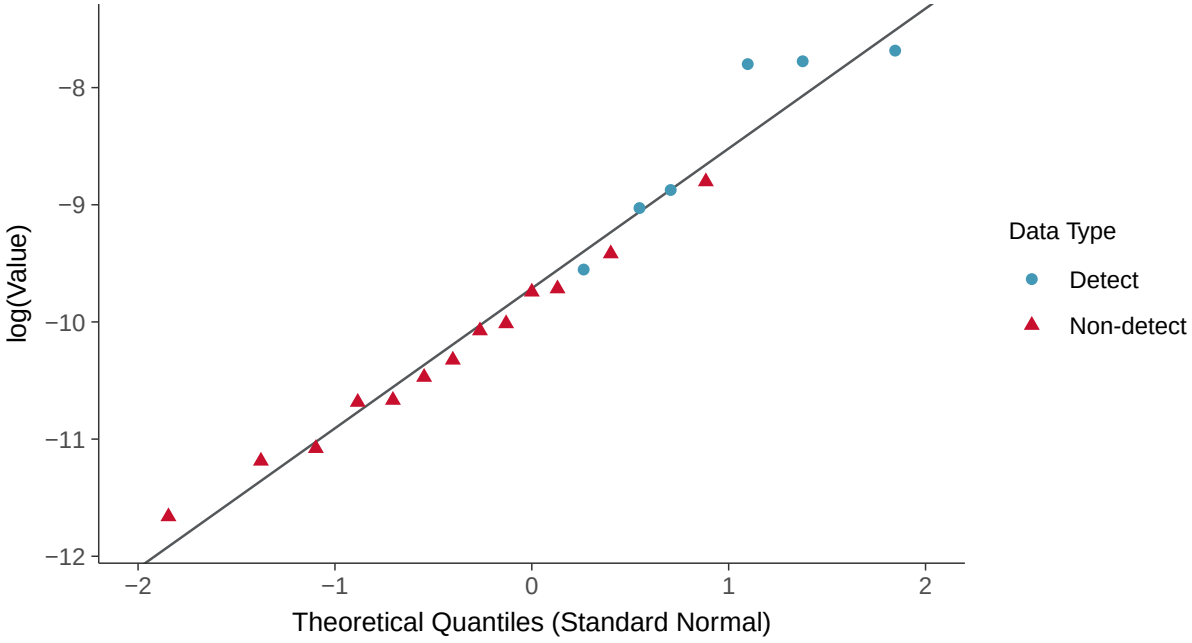
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-04 (mg/L)



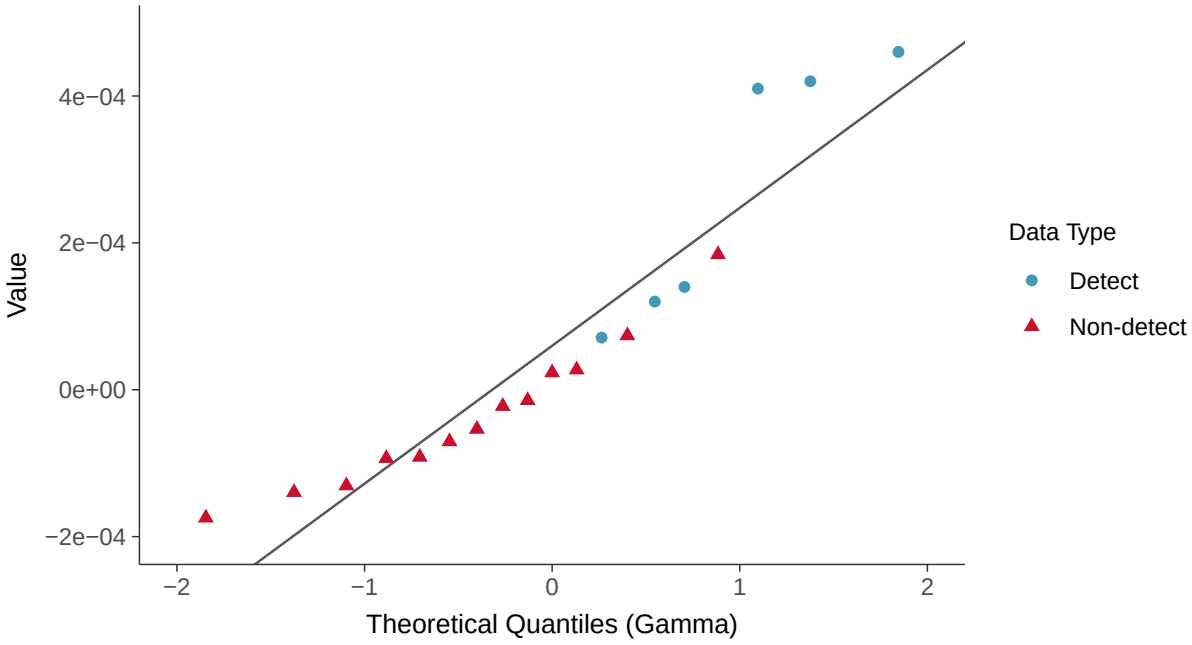
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-04 (mg/L)



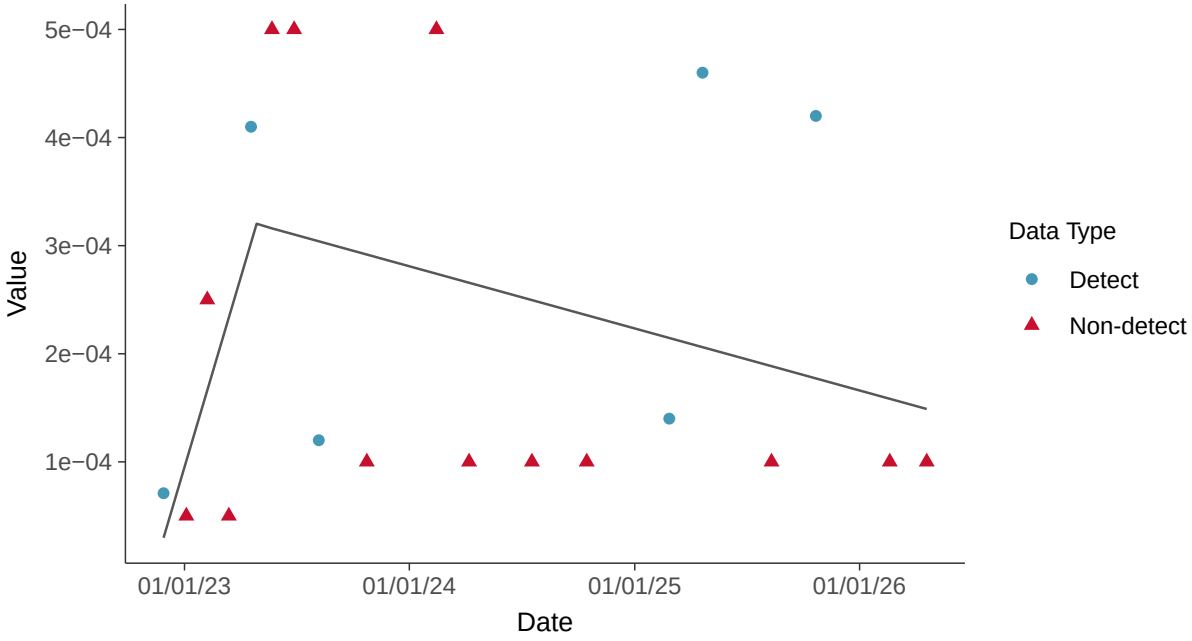
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-04 (mg/L)



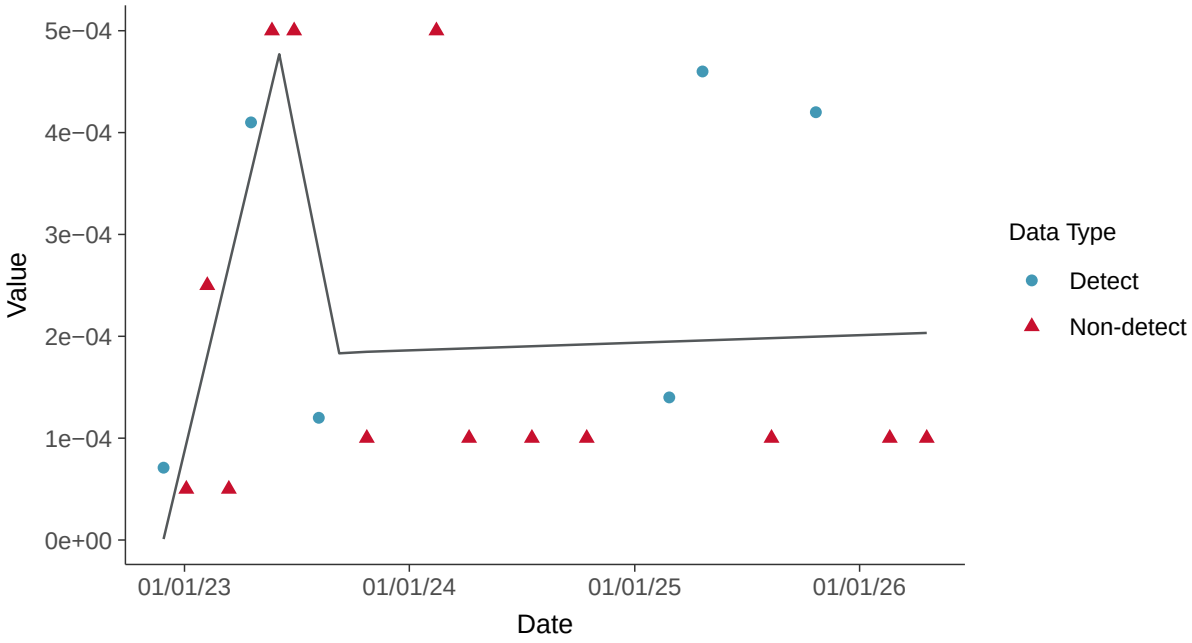
Trend Regression: Piecewise Linear-Linear

Antimony, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-04 (mg/L)

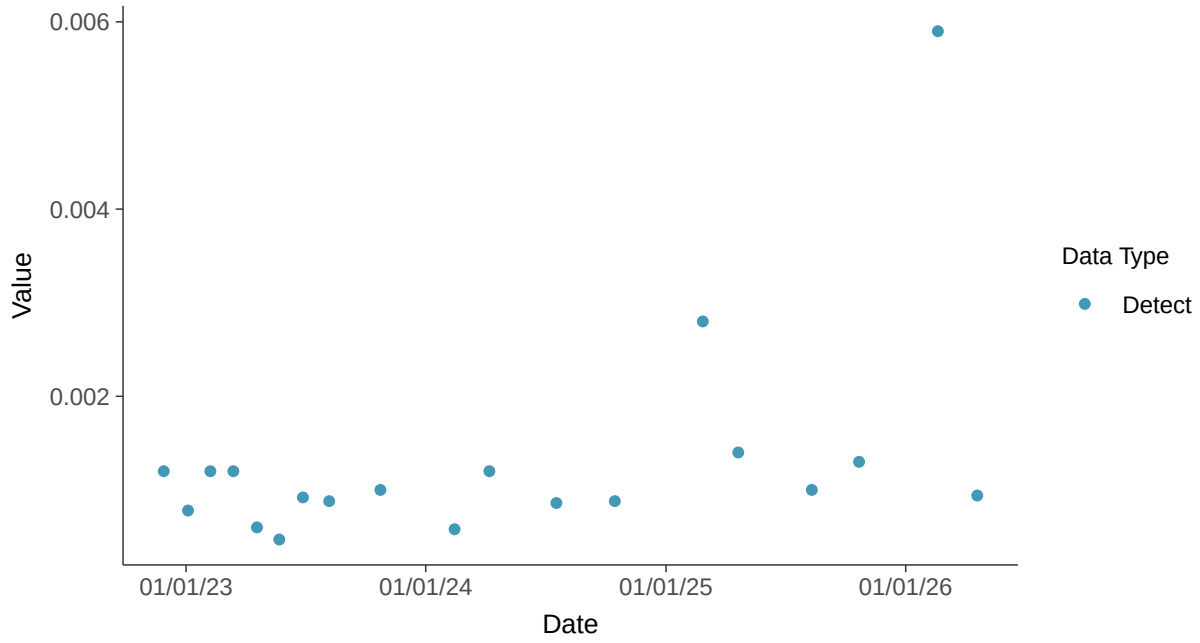


Appendix IV: Arsenic, MW-04

ID: 14_2_4_102

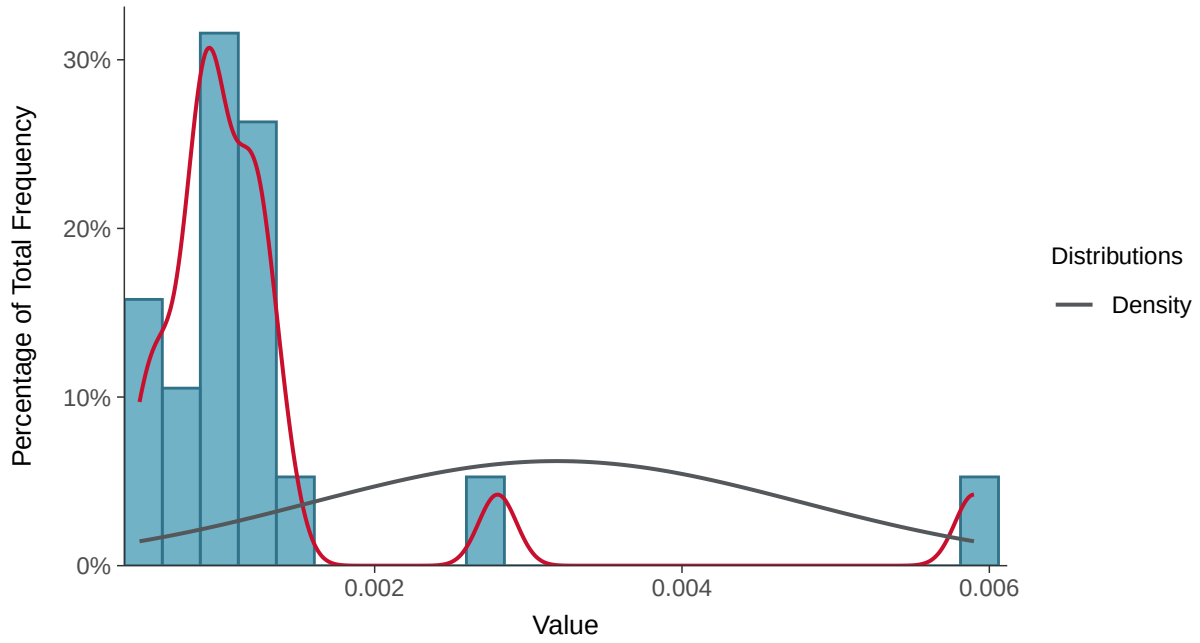
Scatter Plot

Arsenic, MW-04 (mg/L)



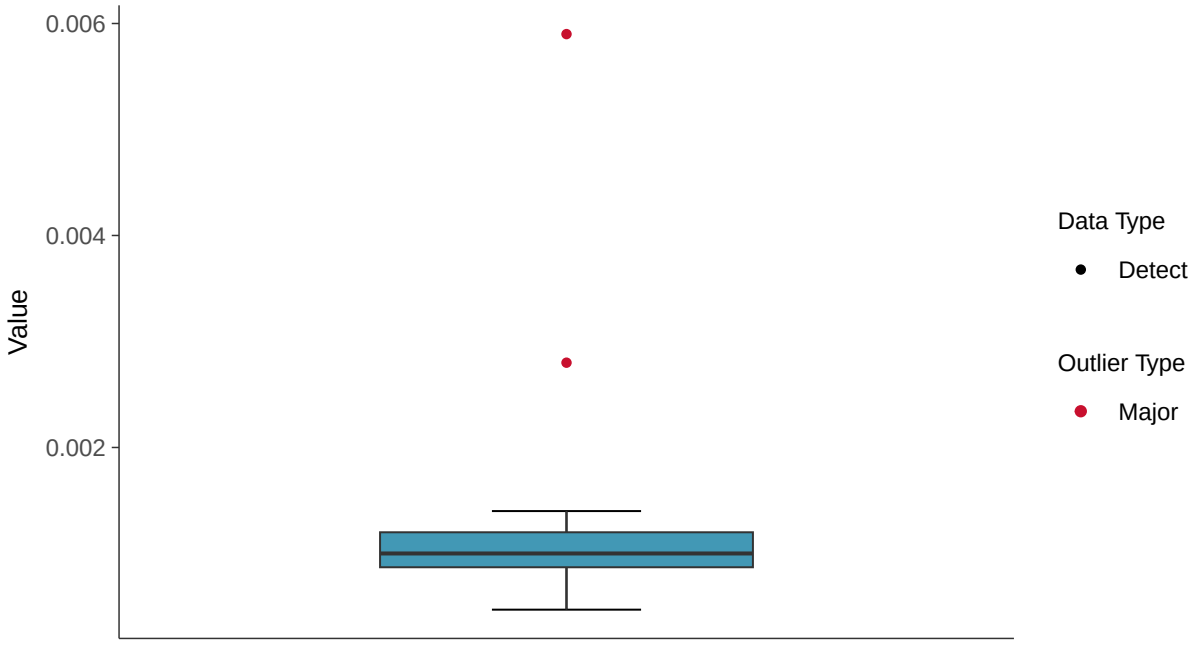
Histogram

Arsenic, MW-04 (mg/L)



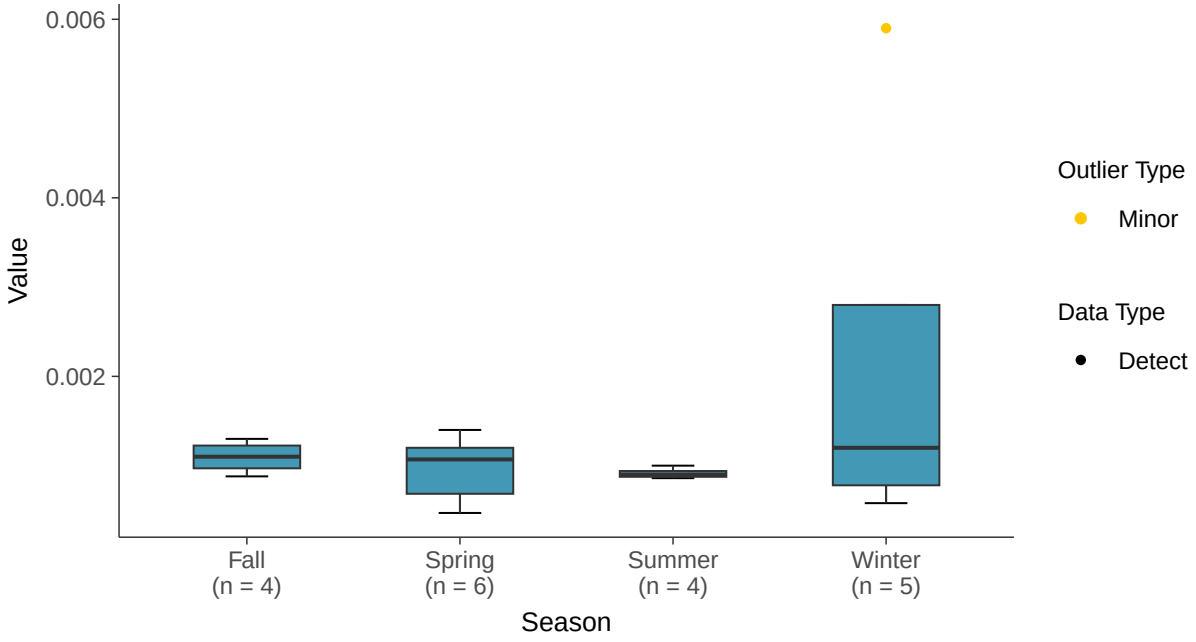
Boxplot

Arsenic, MW-04 (mg/L)



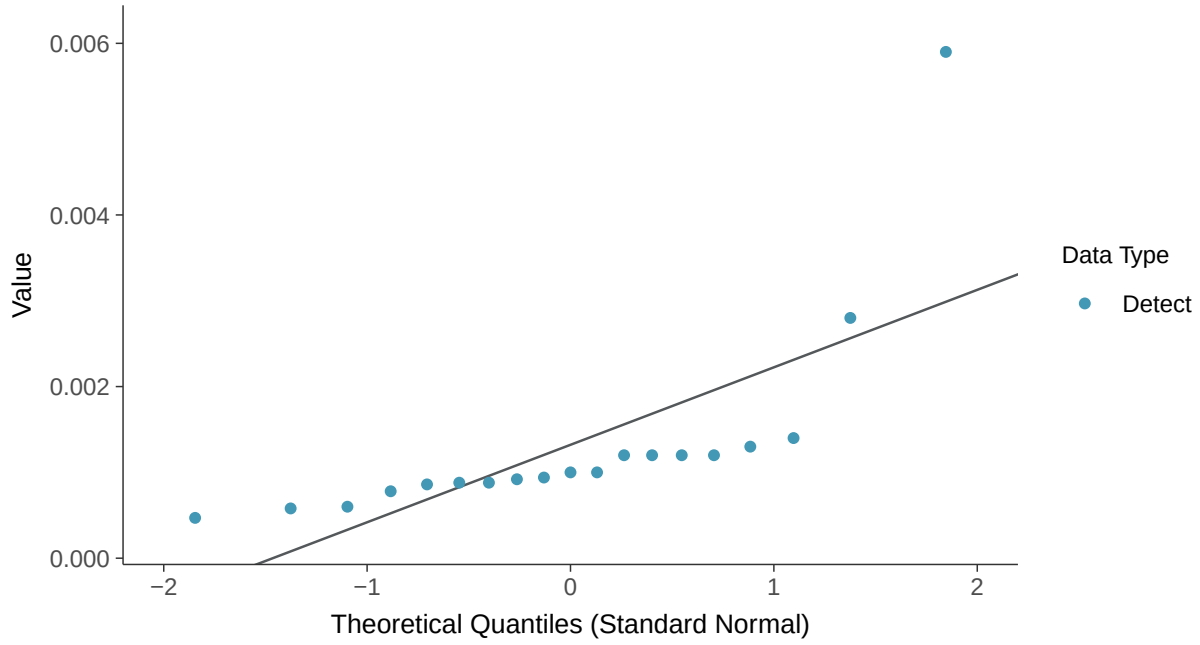
Boxplot by Season

Arsenic, MW-04 (mg/L)



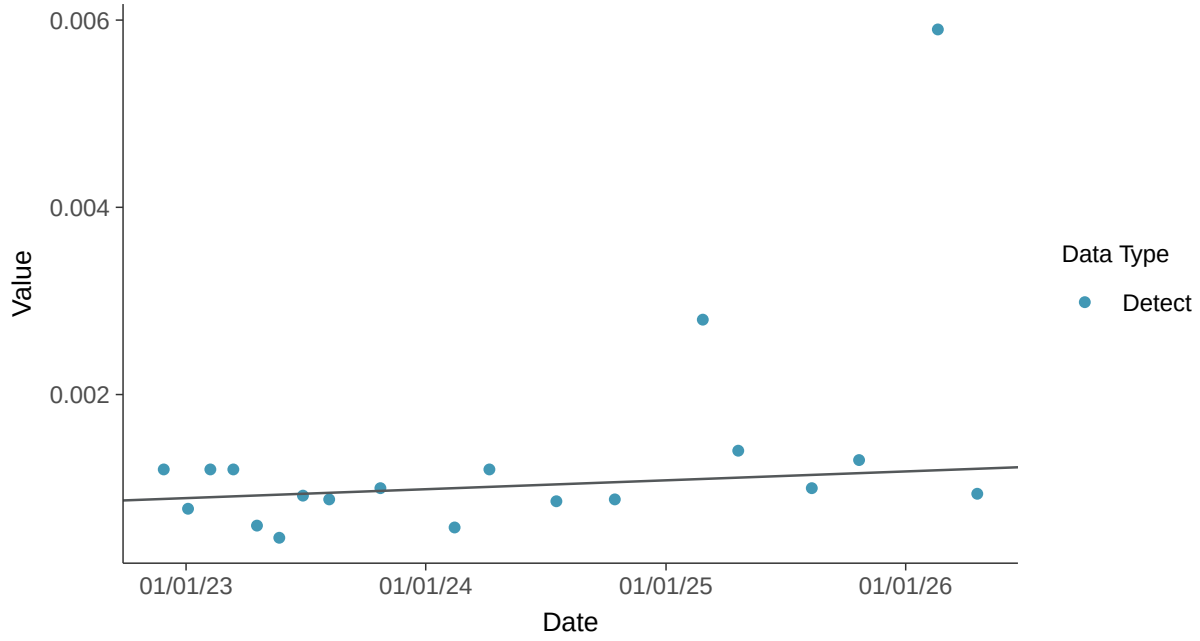
Normal Q-Q plot

Arsenic, MW-04 (mg/L)



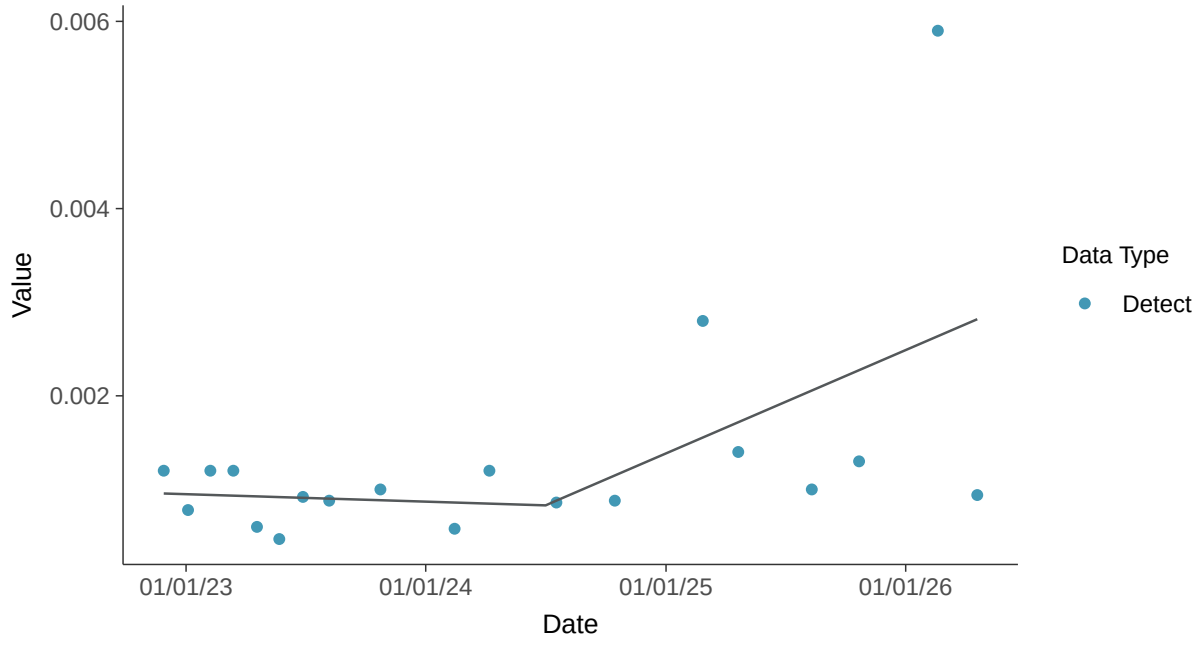
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-04 (mg/L)



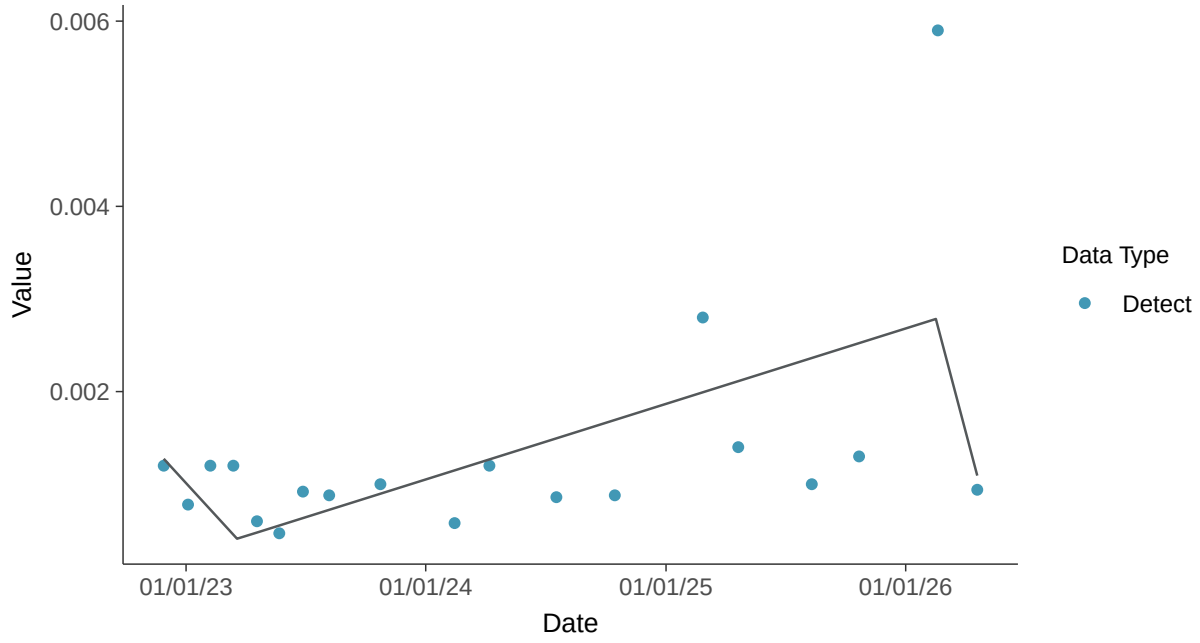
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-04 (mg/L)

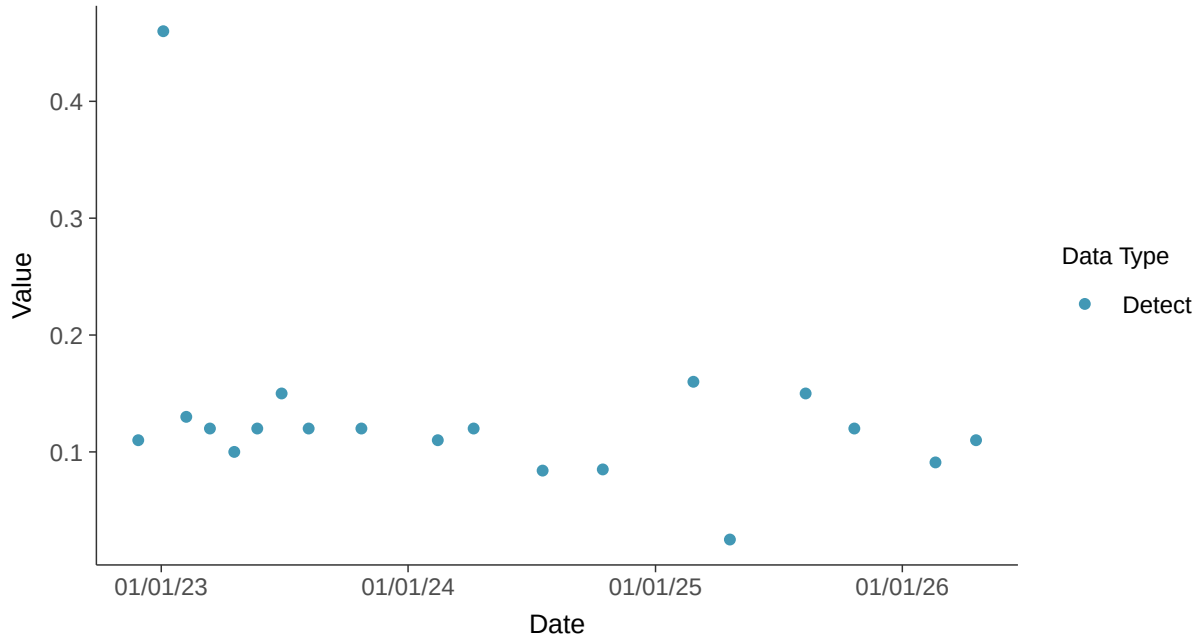


Appendix IV: Barium, MW-04

ID: 14_2_4_103

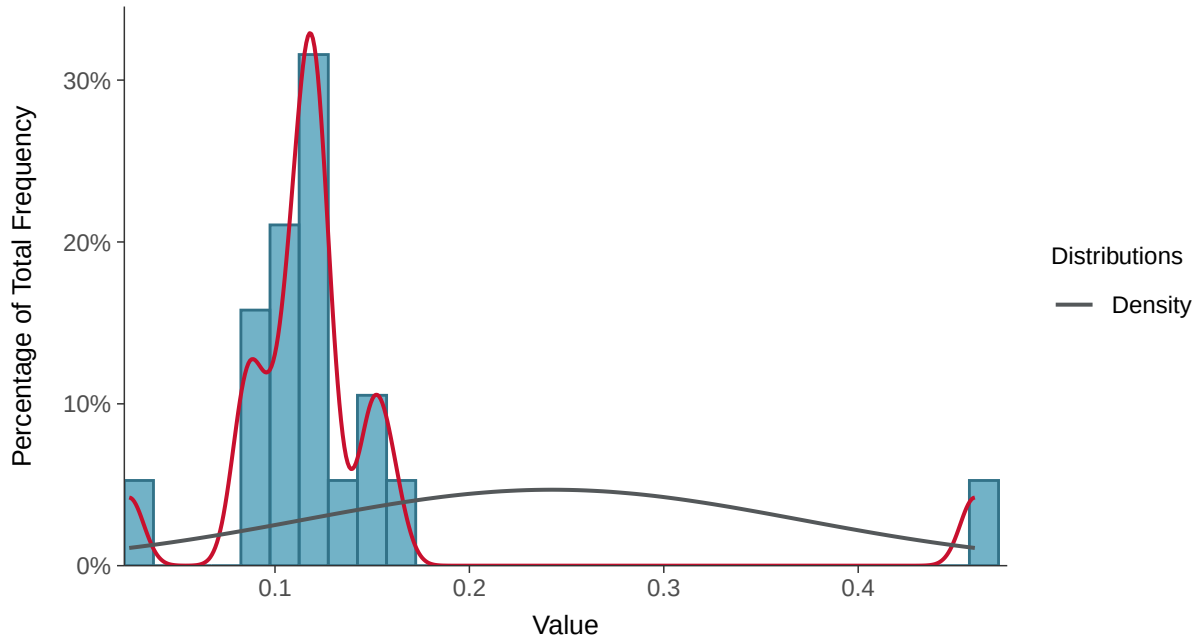
Scatter Plot

Barium, MW-04 (mg/L)



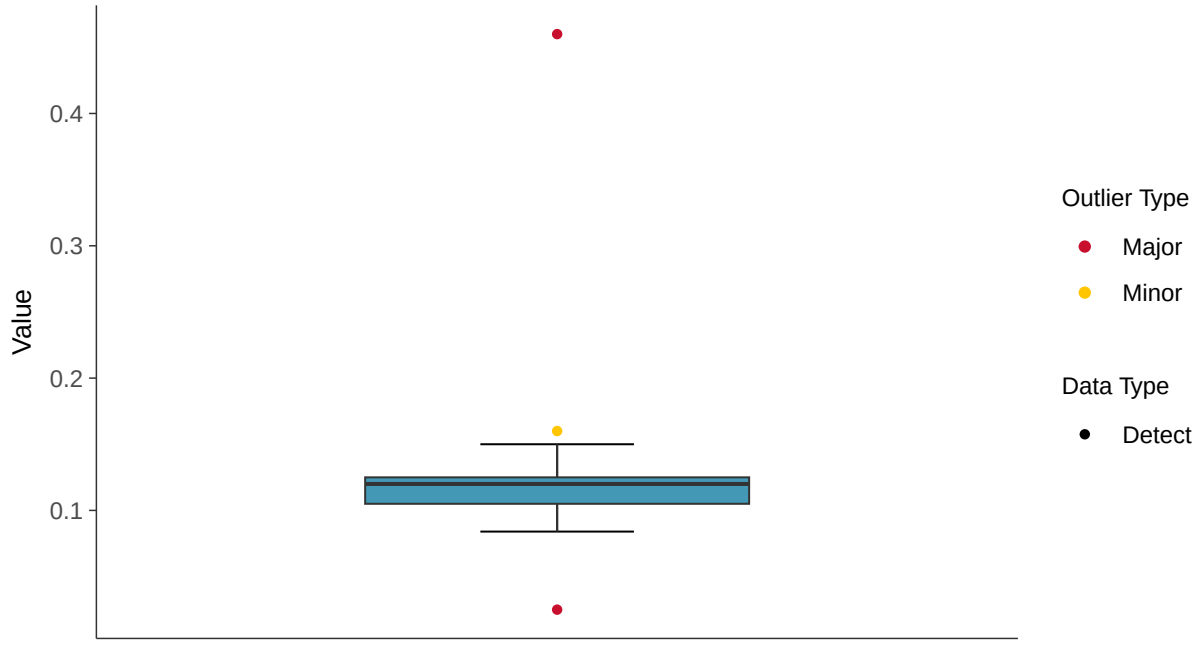
Histogram

Barium, MW-04 (mg/L)



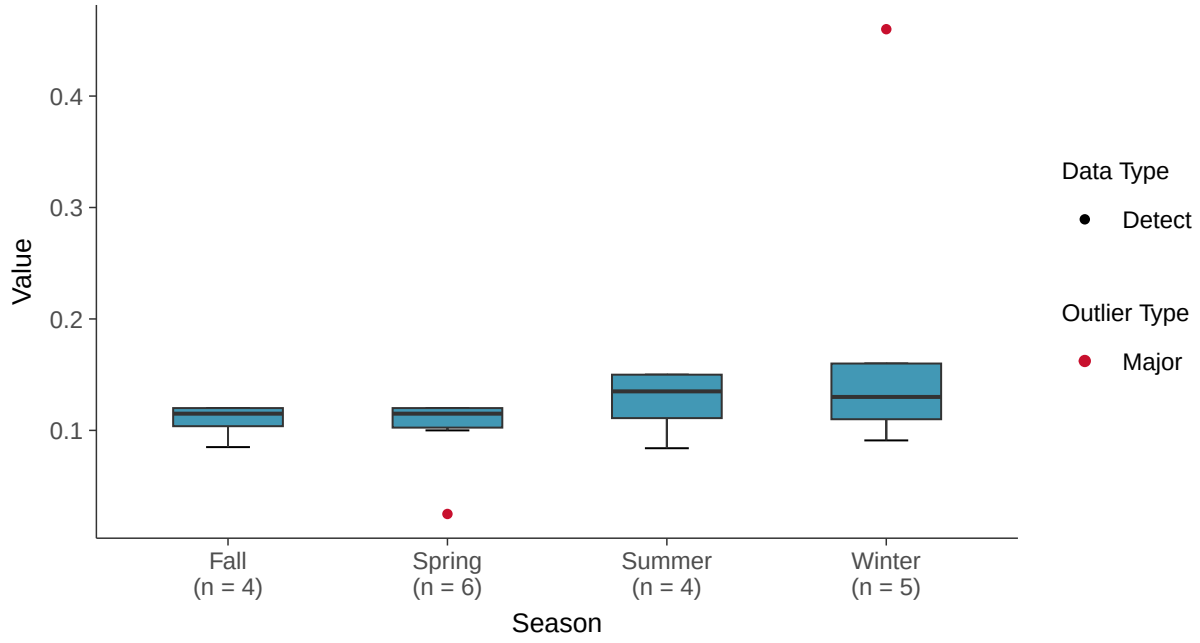
Boxplot

Barium, MW-04 (mg/L)



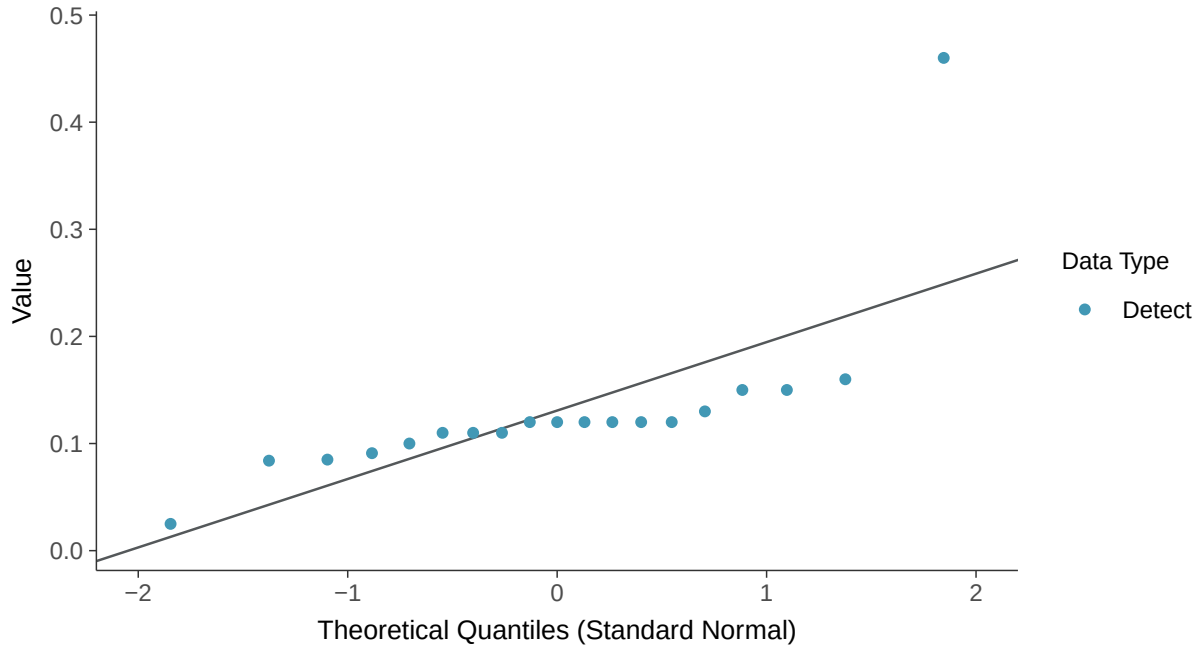
Boxplot by Season

Barium, MW-04 (mg/L)



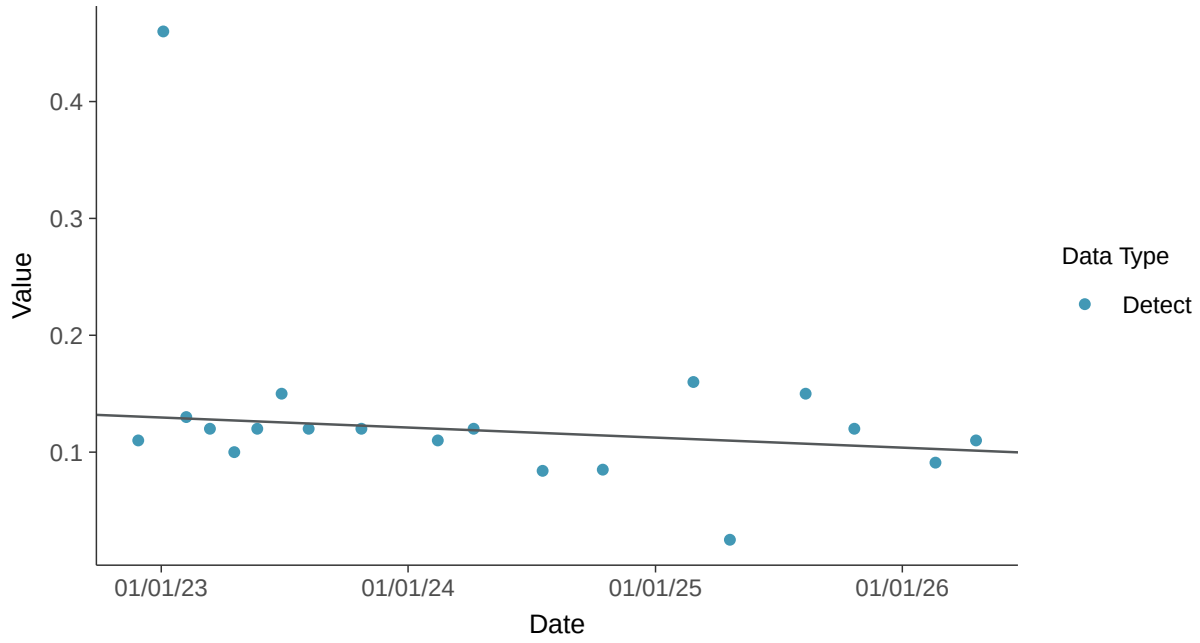
Normal Q-Q plot

Barium, MW-04 (mg/L)



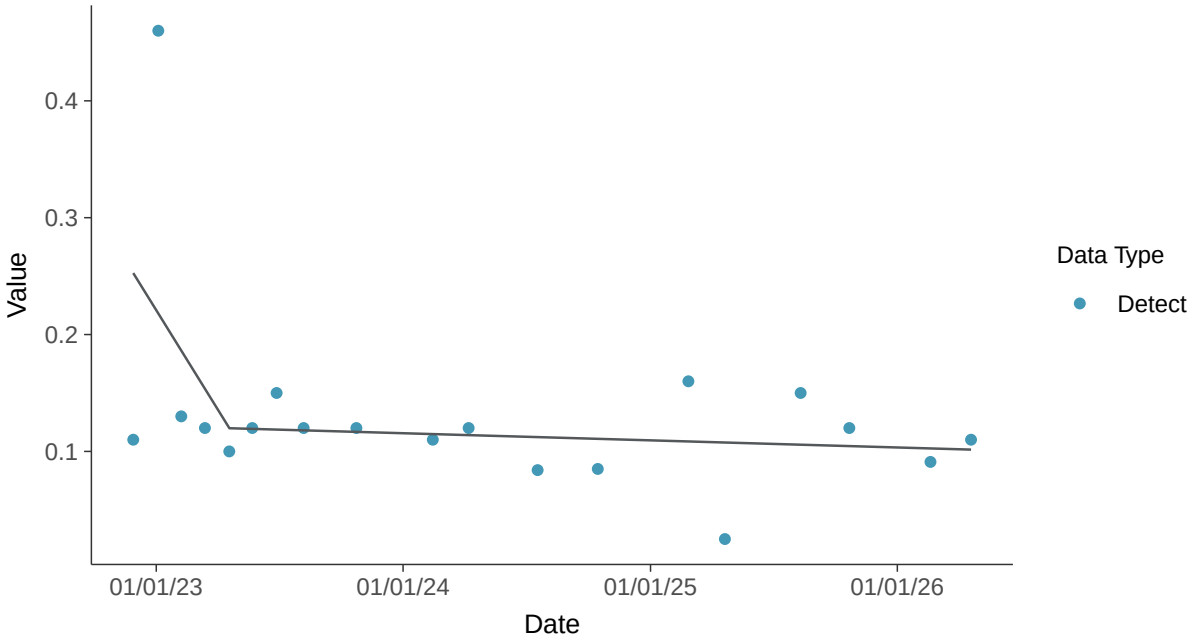
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-04 (mg/L)



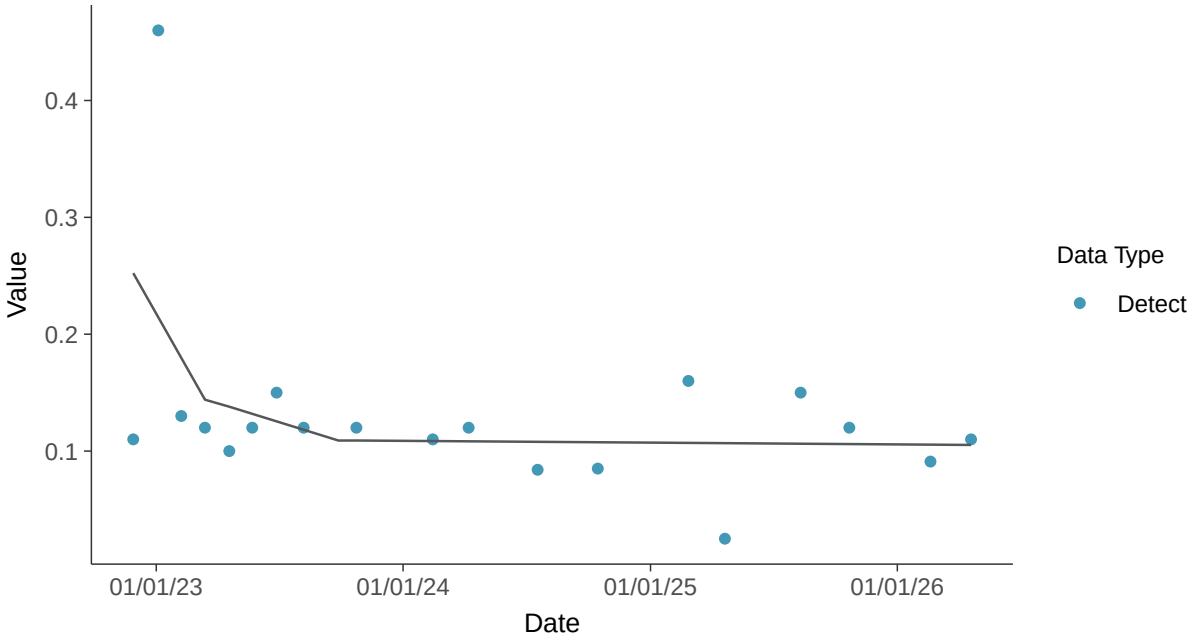
Trend Regression: Piecewise Linear-Linear

Barium, MW-04 (mg/L)



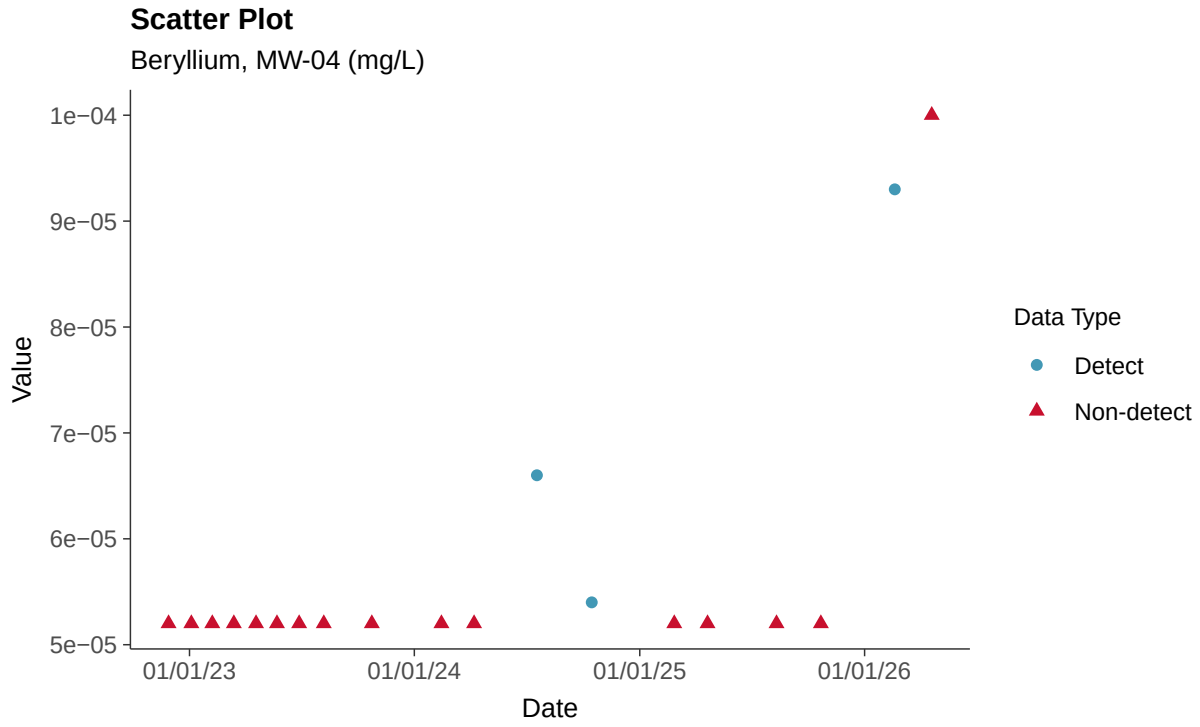
Trend Regression: Piecewise Linear-Linear-Linear

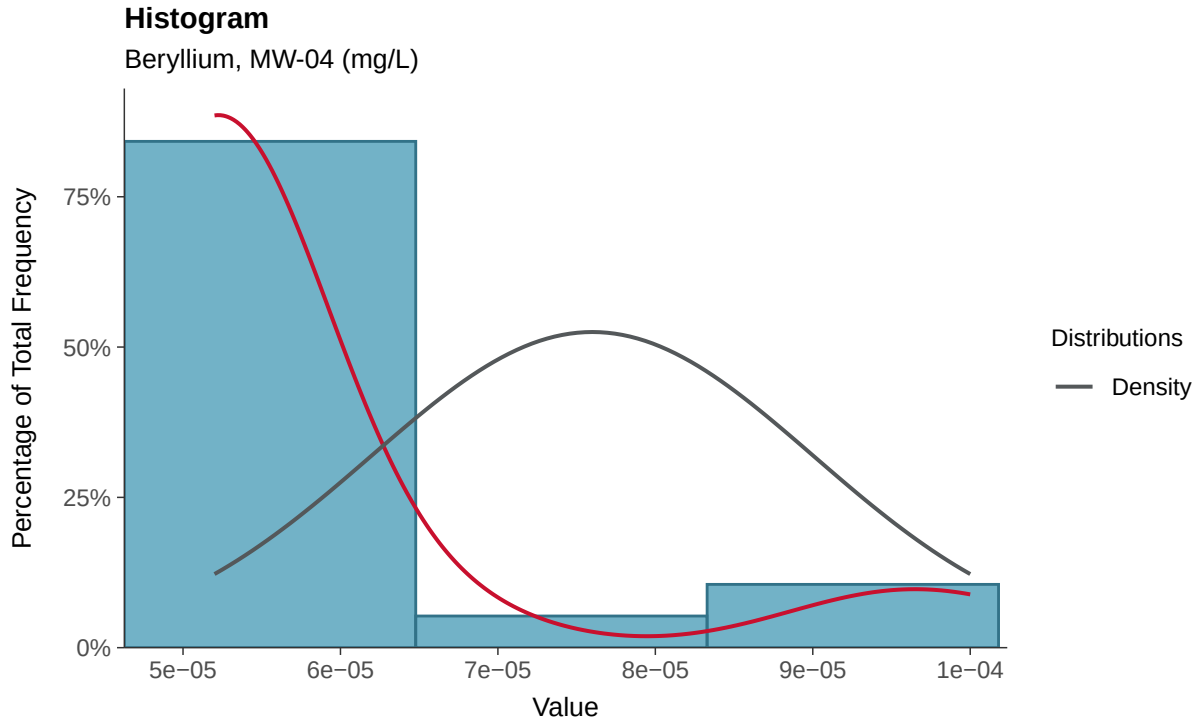
Barium, MW-04 (mg/L)



Appendix IV: Beryllium, MW-04

ID: 14_2_4_104



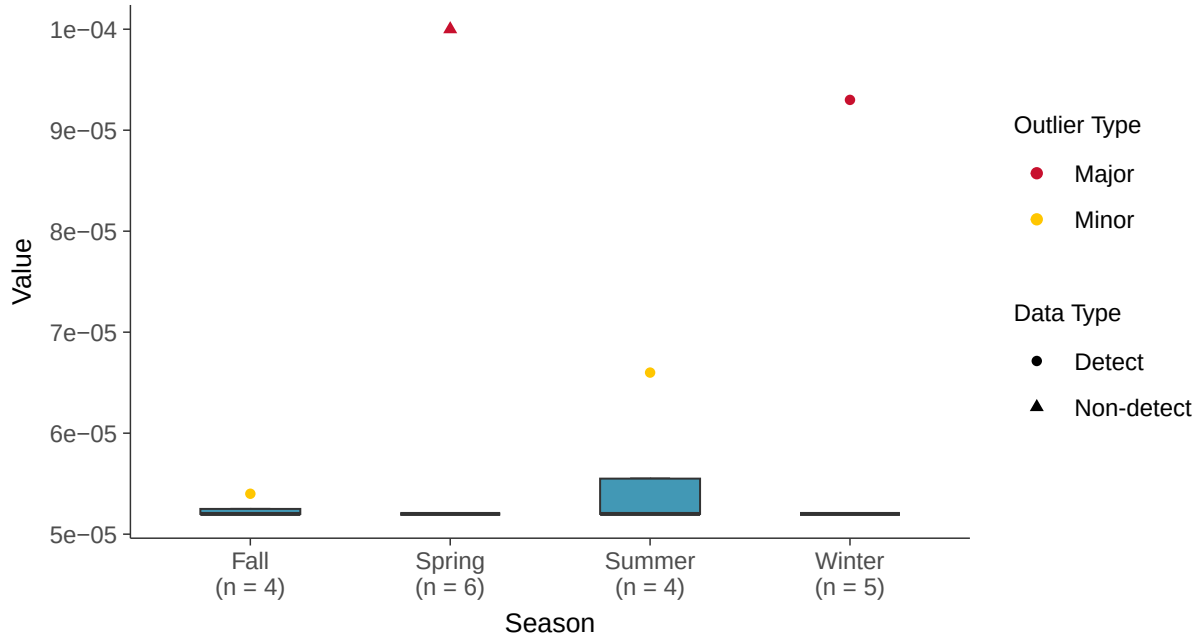


Boxplot

Beryllium, MW-04 (mg/L)

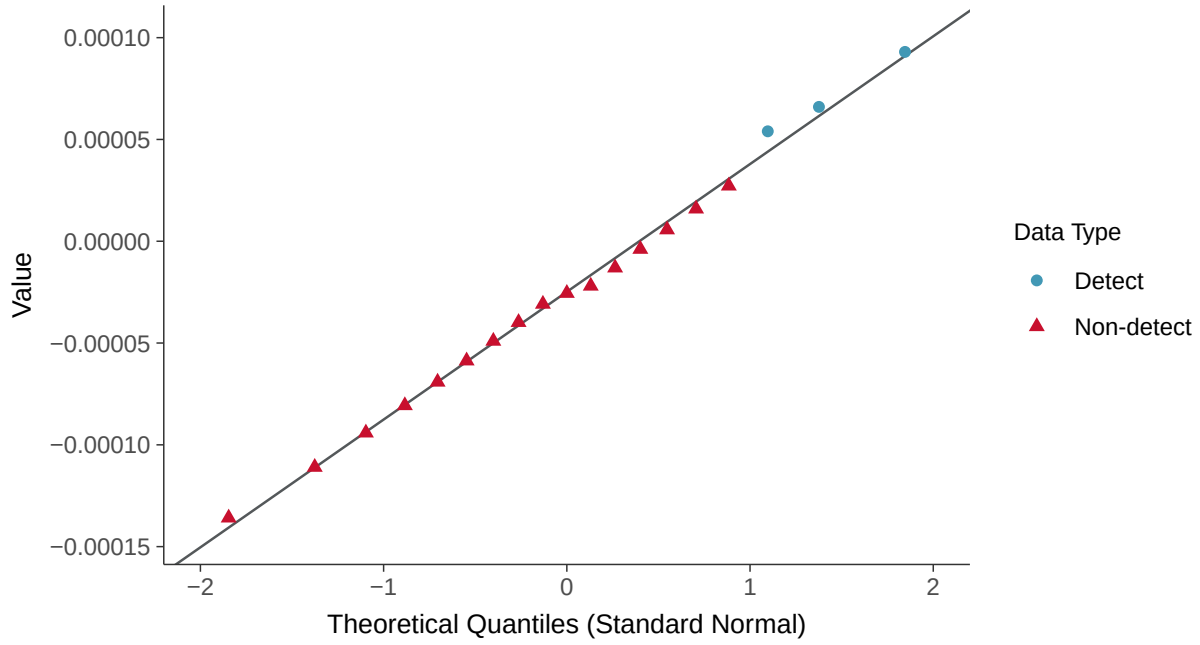
Boxplot by Season

Beryllium, MW-04 (mg/L)



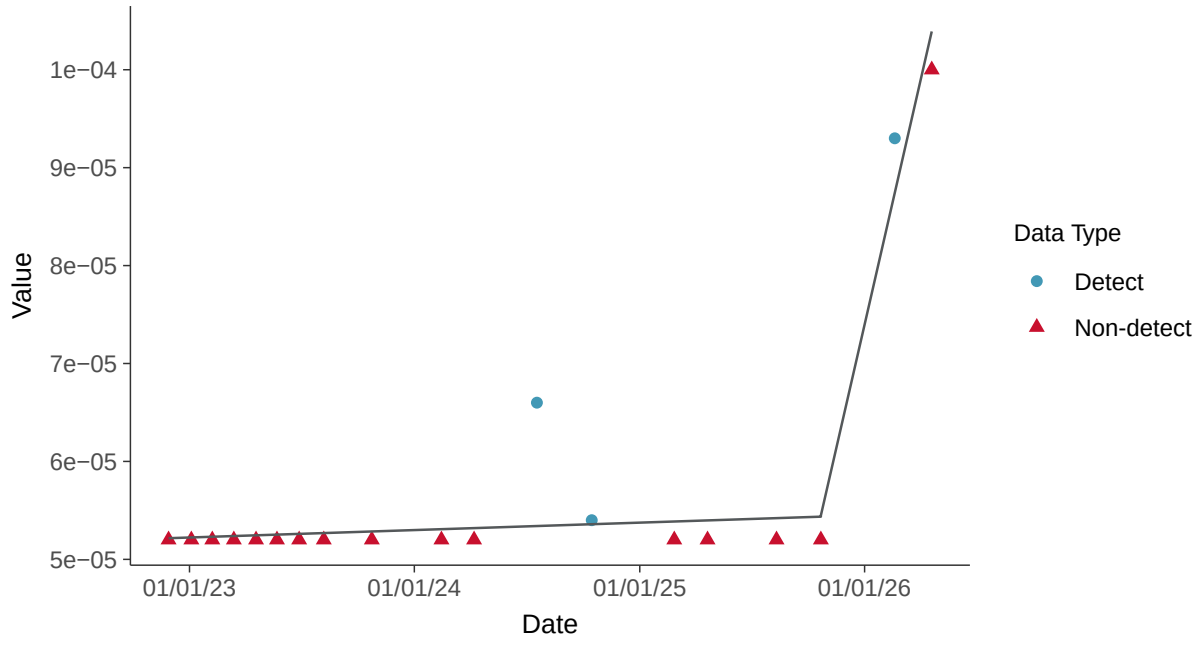
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-04 (mg/L)



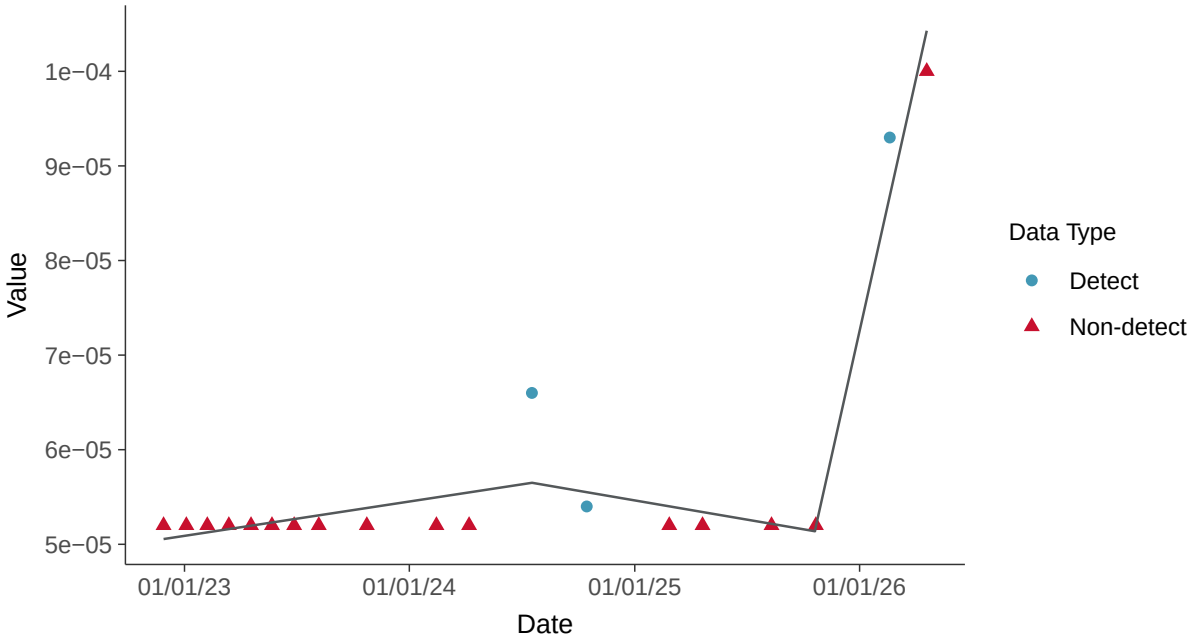
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-04 (mg/L)



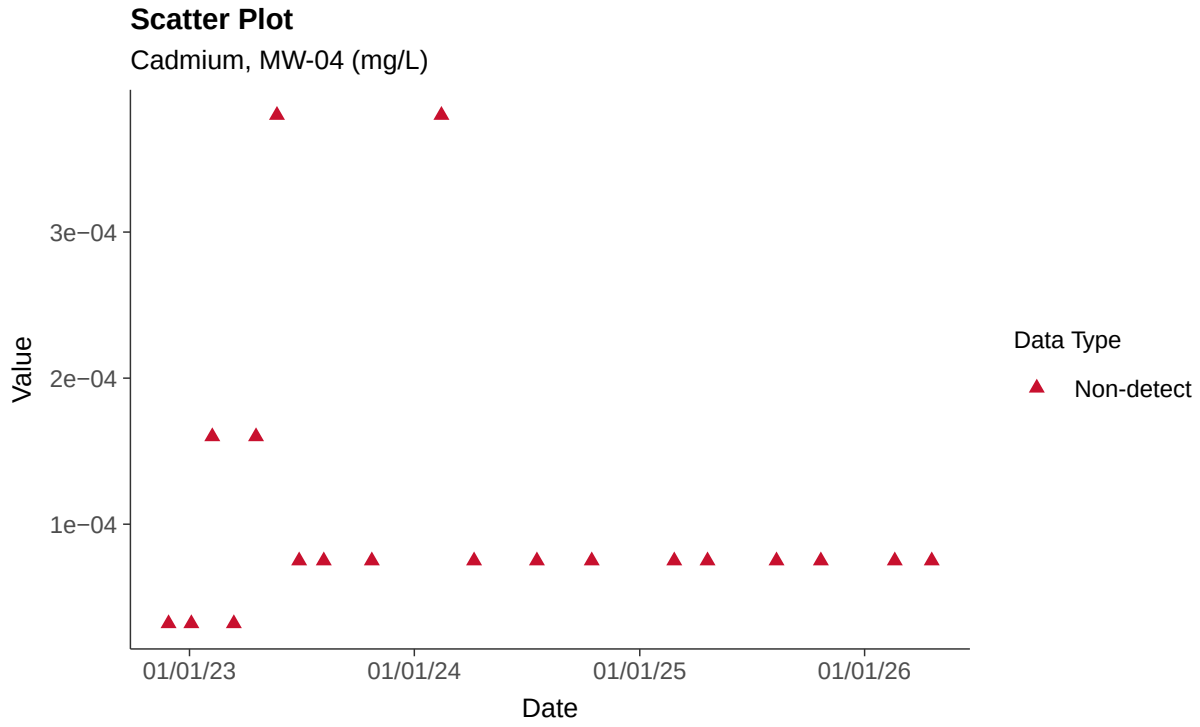
Trend Regression: Piecewise Linear-Linear-Linear

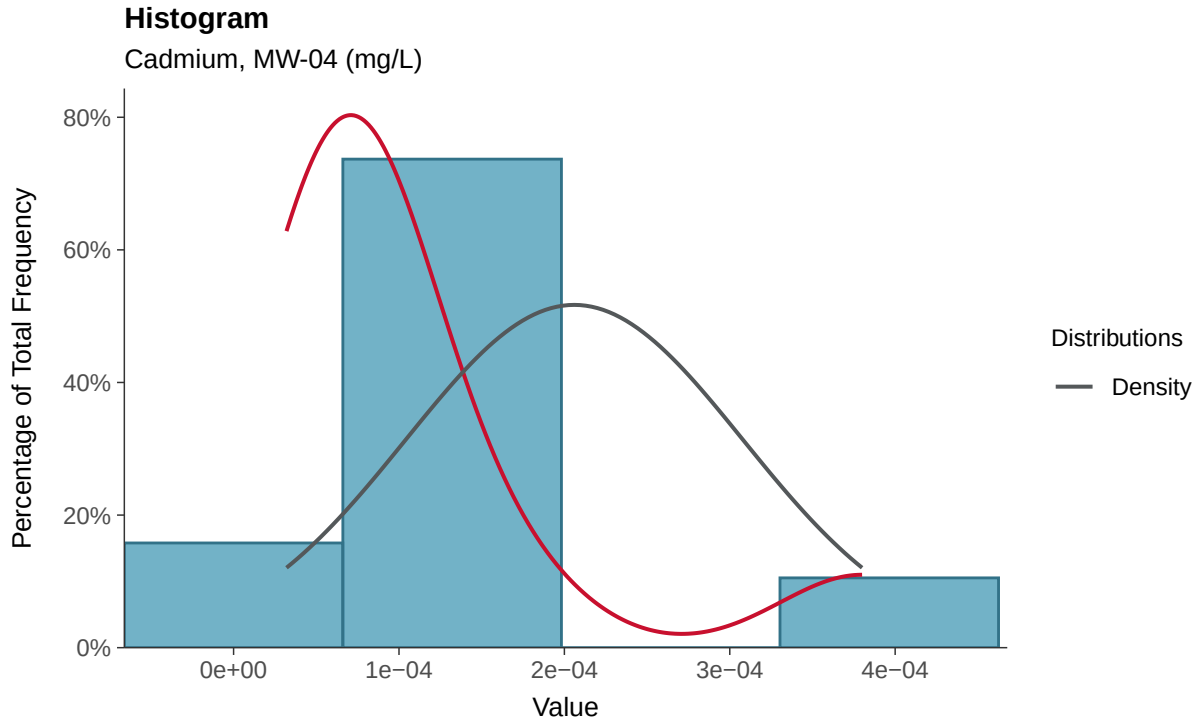
Beryllium, MW-04 (mg/L)



Appendix IV: Cadmium, MW-04

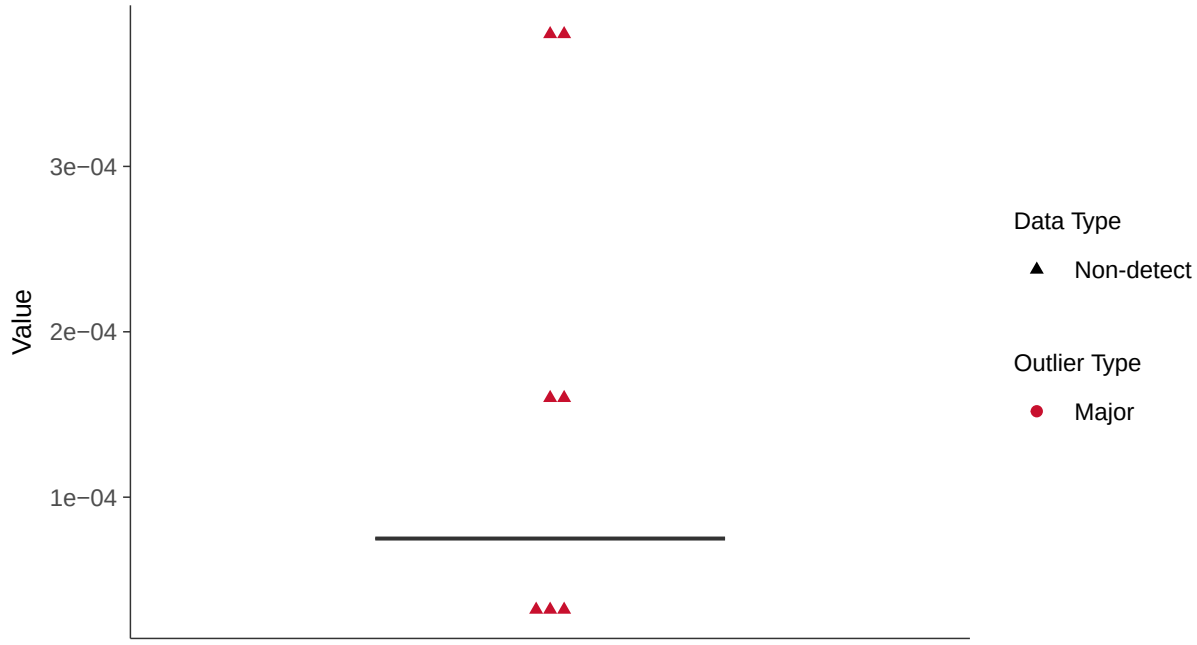
ID: 14_2_4_106





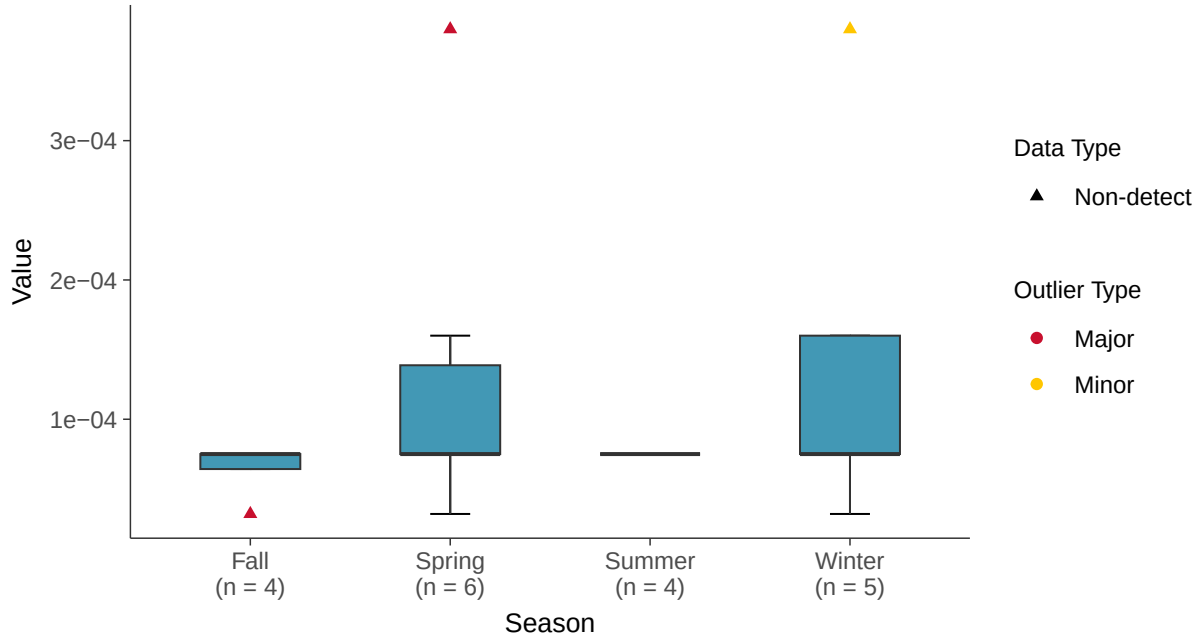
Boxplot

Cadmium, MW-04 (mg/L)



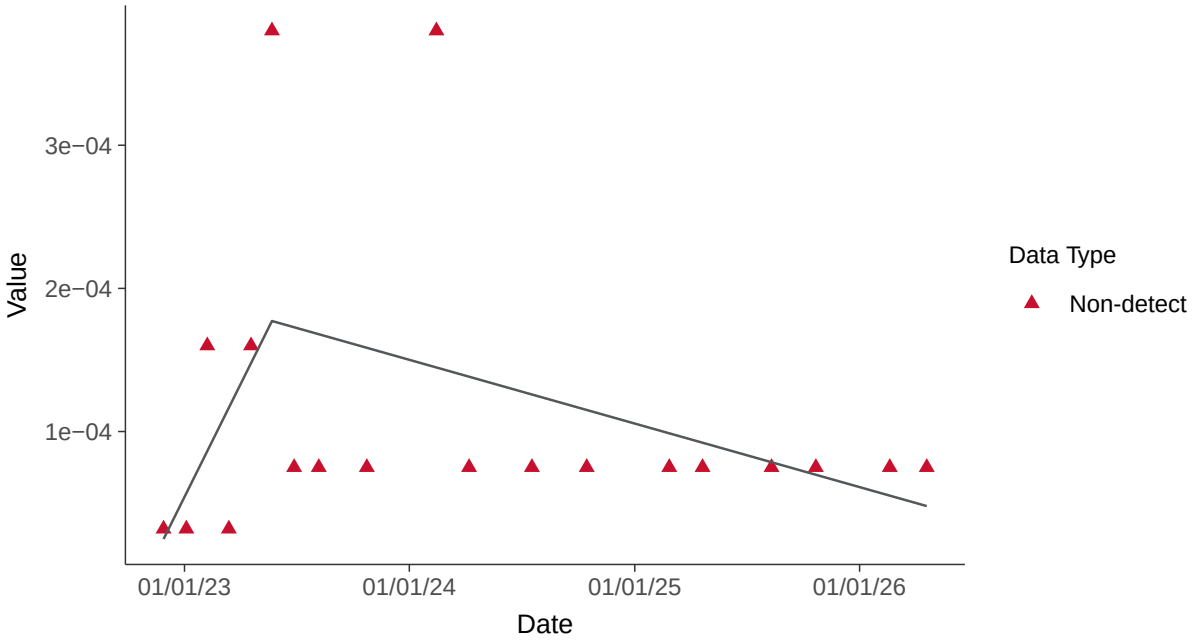
Boxplot by Season

Cadmium, MW-04 (mg/L)



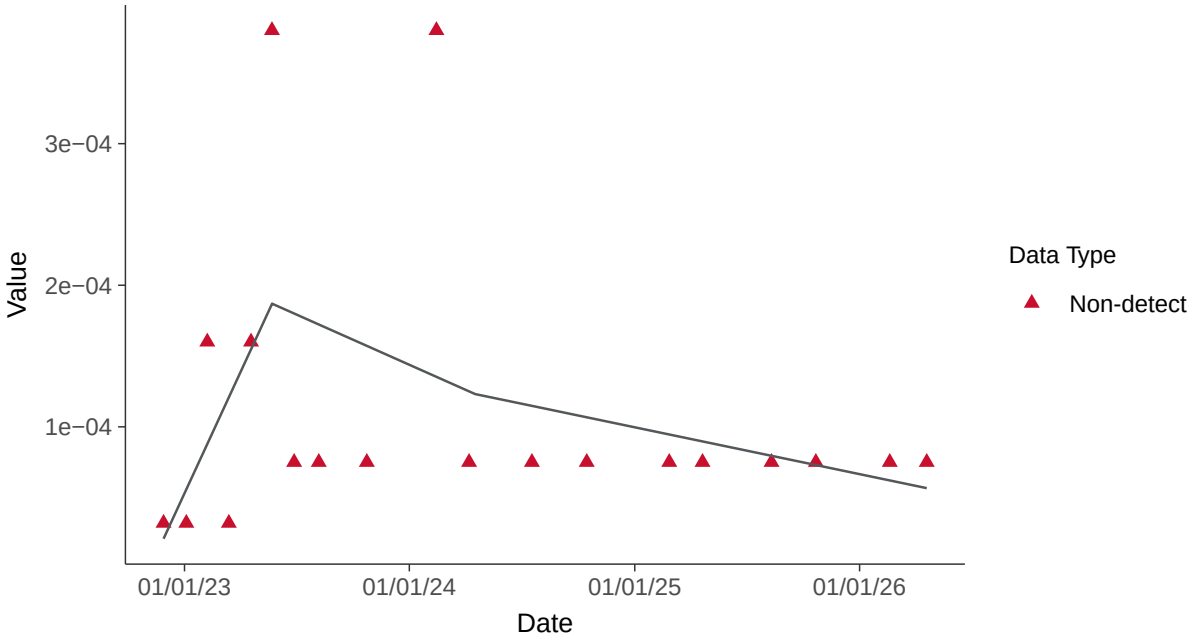
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-04 (mg/L)

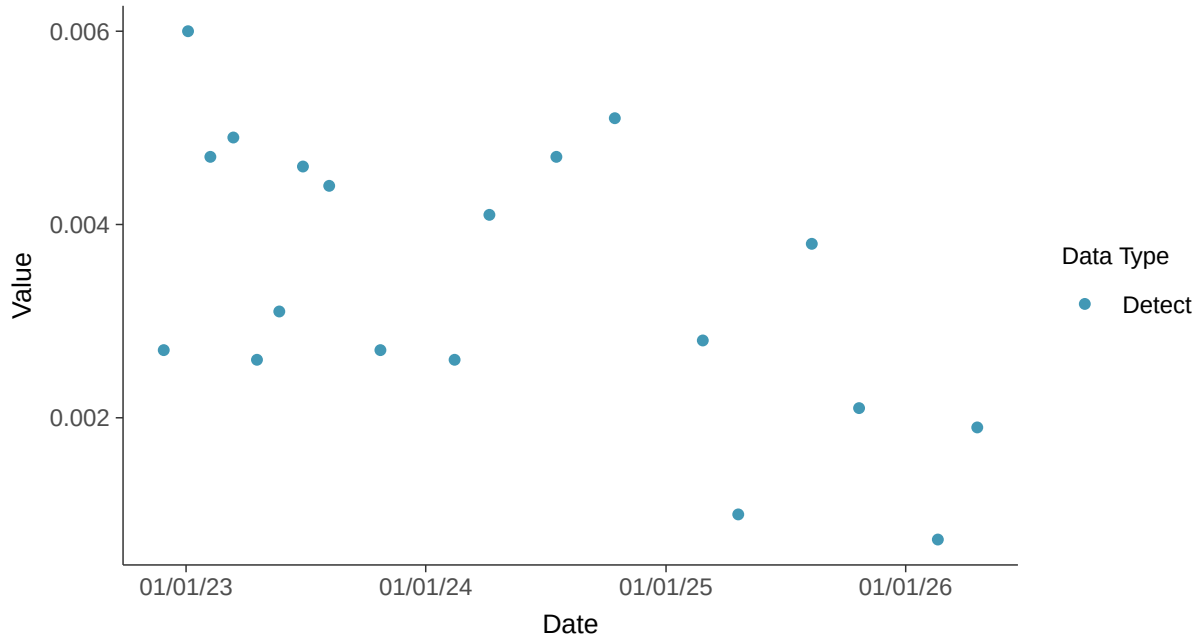


Appendix IV: Chromium, Total, MW-04

ID: 14_2_4_109

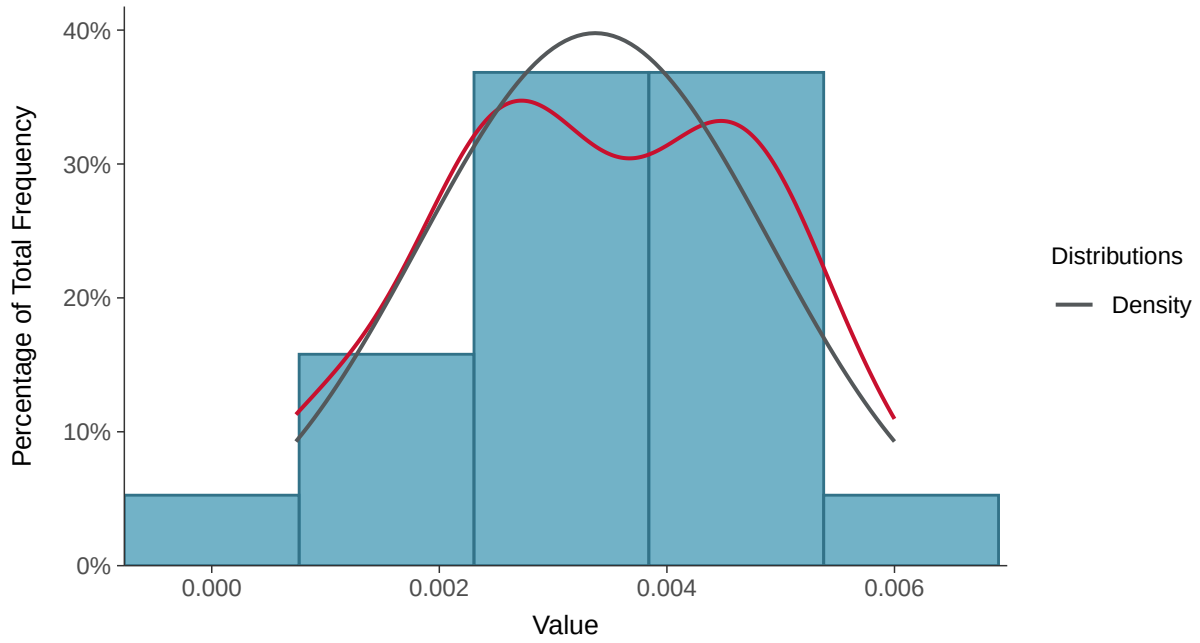
Scatter Plot

Chromium, Total, MW-04 (mg/L)



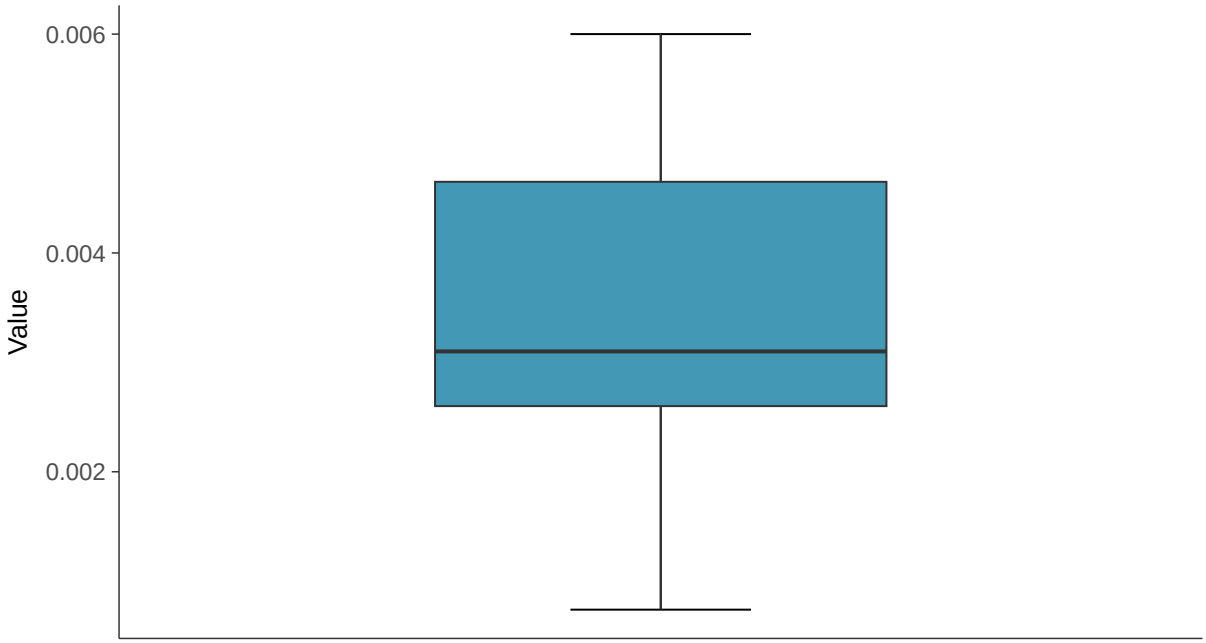
Histogram

Chromium, Total, MW-04 (mg/L)



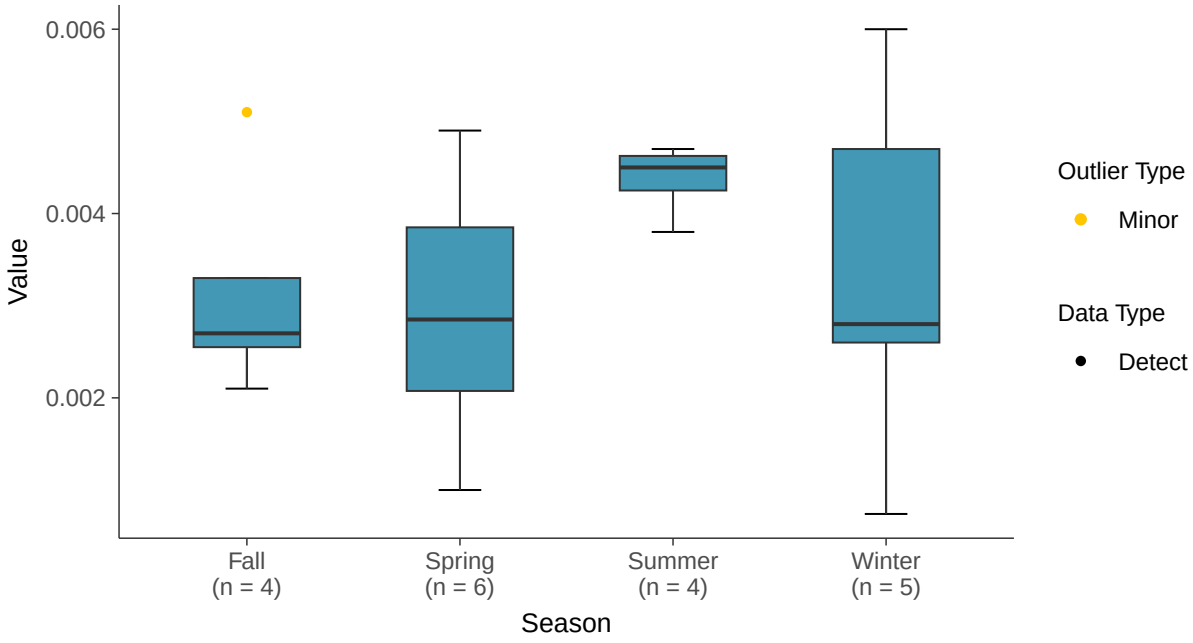
Boxplot

Chromium, Total, MW-04 (mg/L)



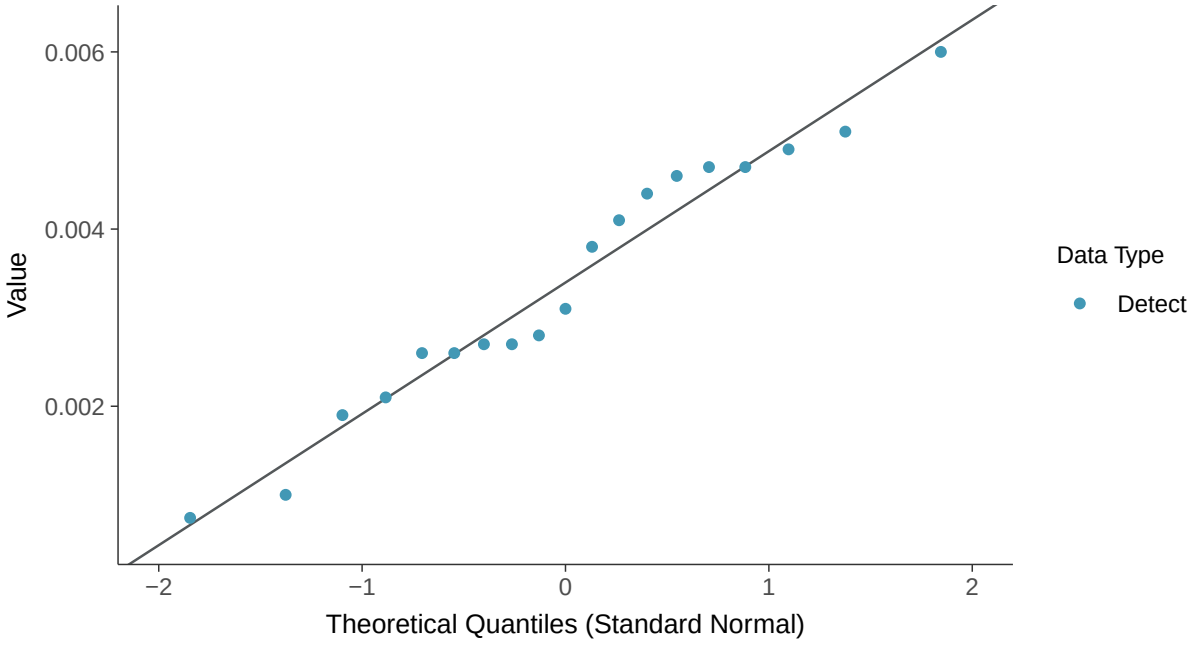
Boxplot by Season

Chromium, Total, MW-04 (mg/L)



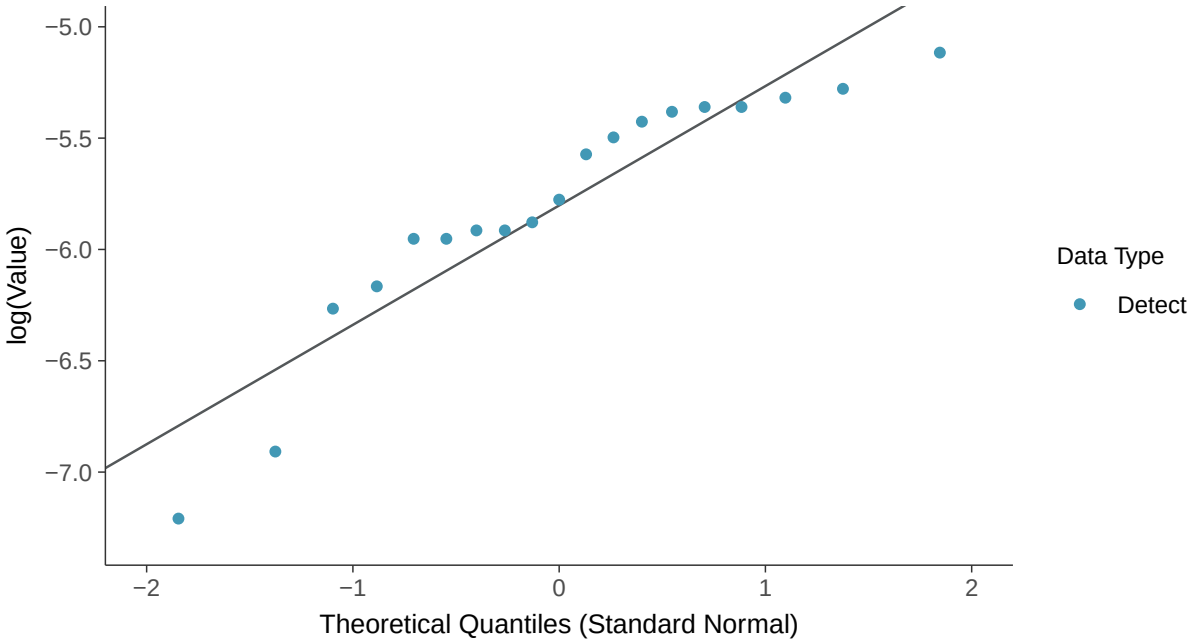
Normal Q-Q plot

Chromium, Total, MW-04 (mg/L)



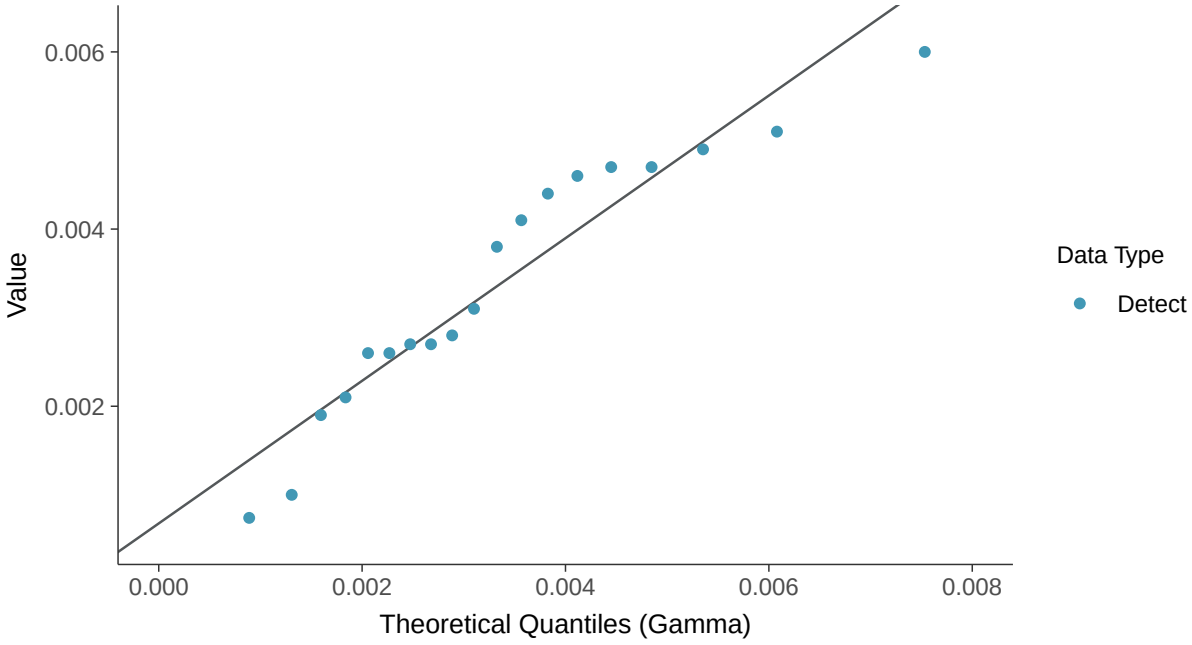
Lognormal Q-Q plot

Chromium, Total, MW-04 (mg/L)



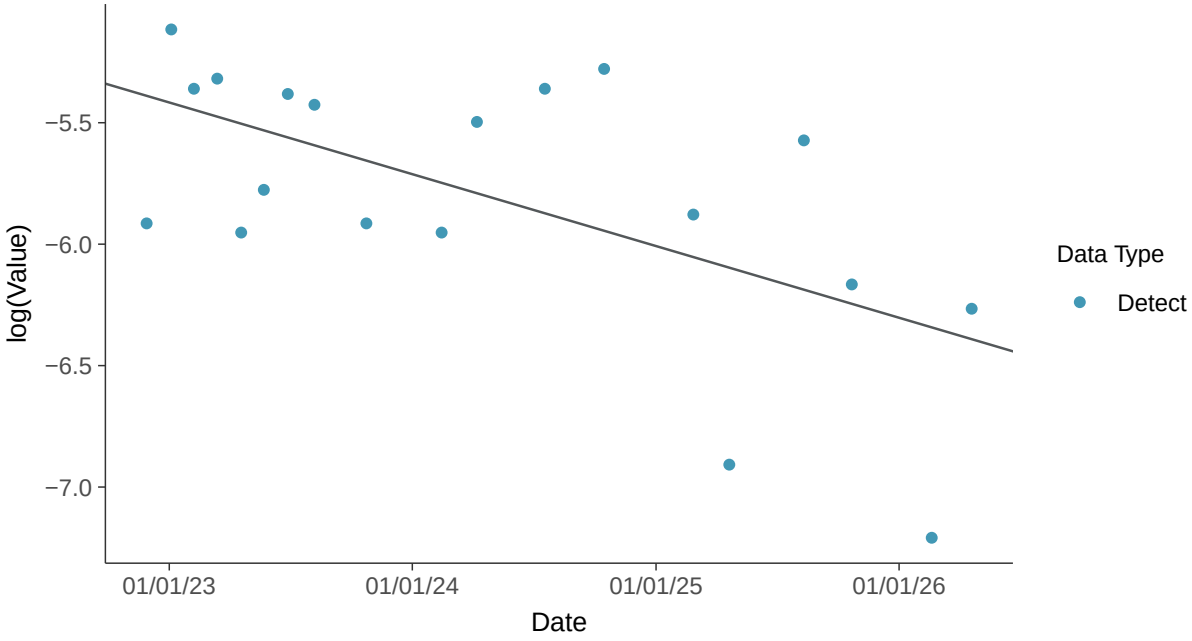
Gamma Q-Q plot

Chromium, Total, MW-04 (mg/L)



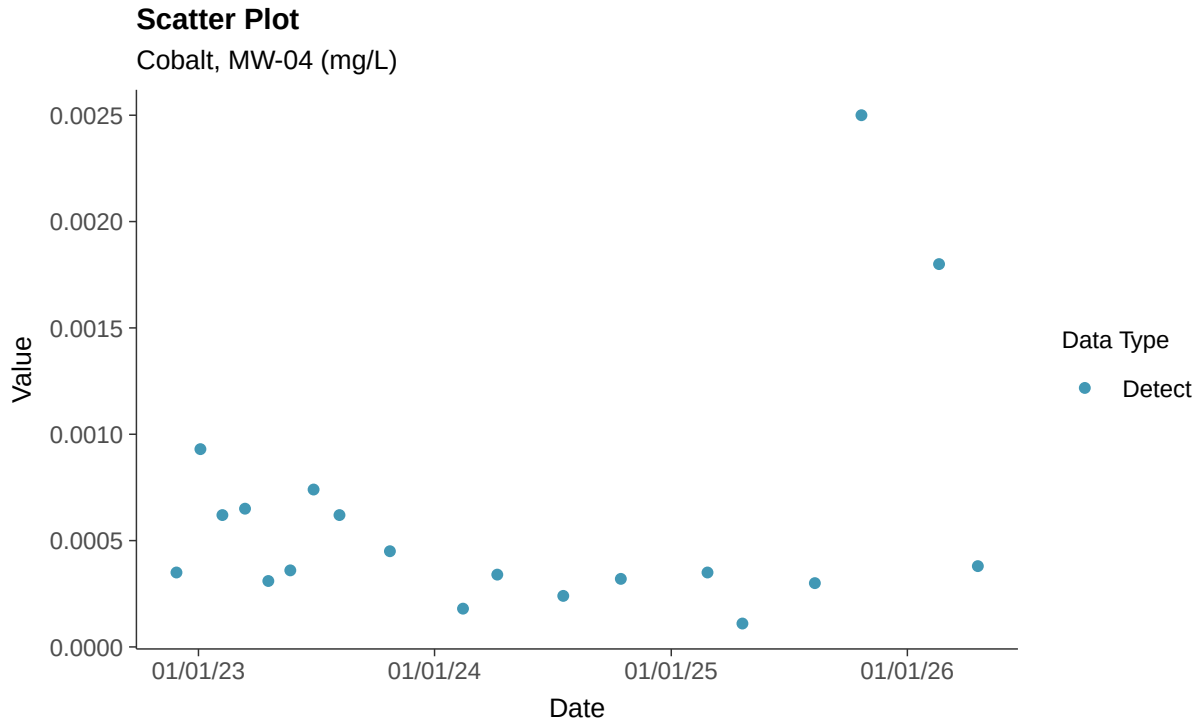
Trend Regression: Lognormal MLE

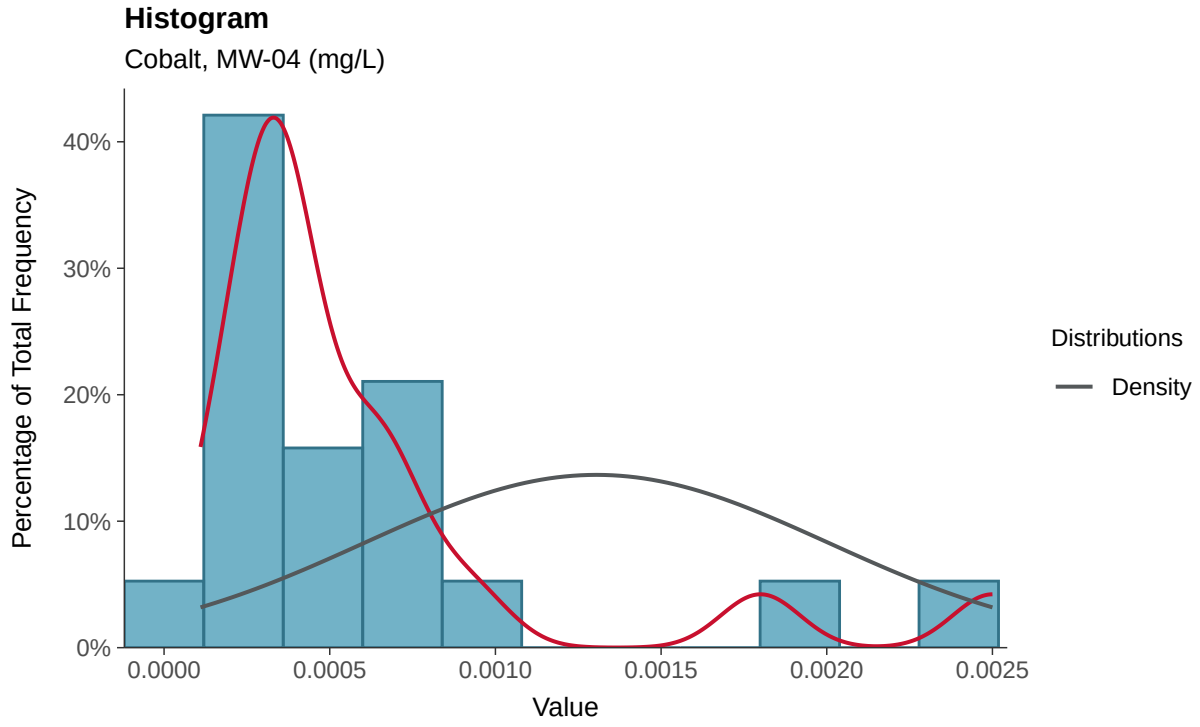
Chromium, Total, MW-04 (mg/L)



Appendix IV: Cobalt, MW-04

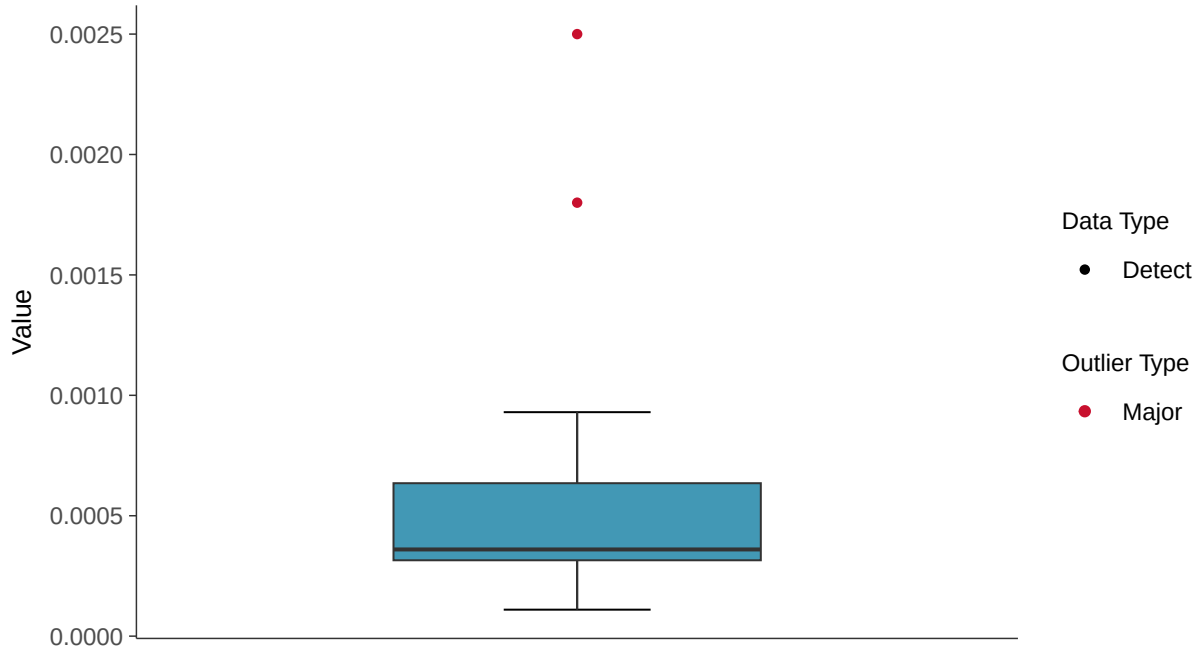
ID: 14_2_4_110





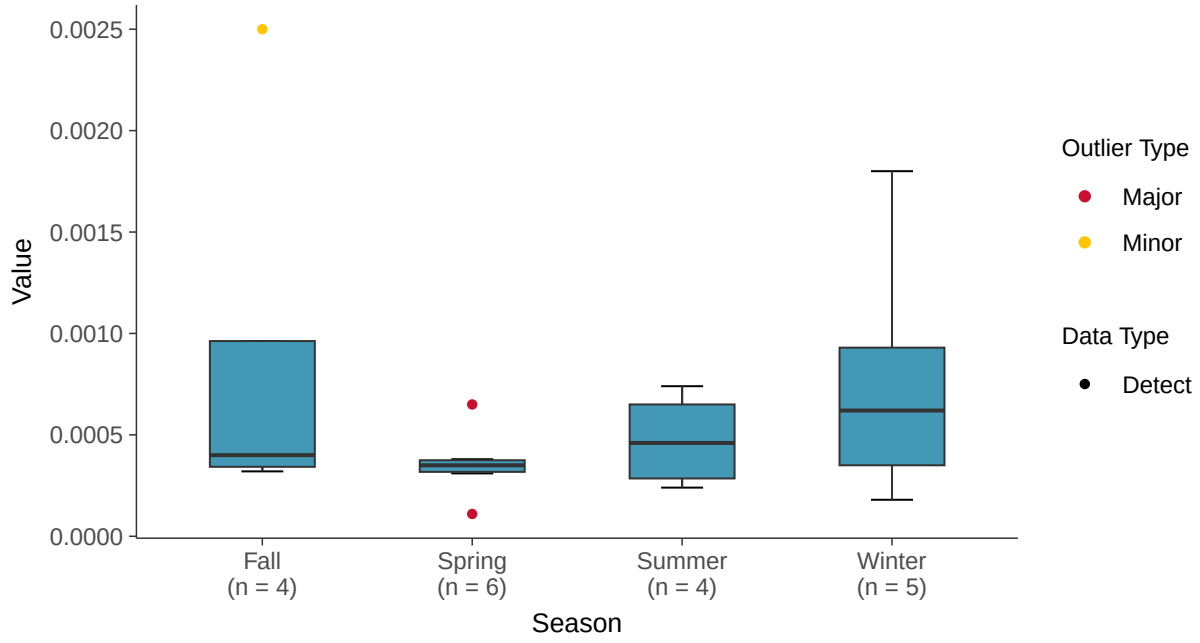
Boxplot

Cobalt, MW-04 (mg/L)



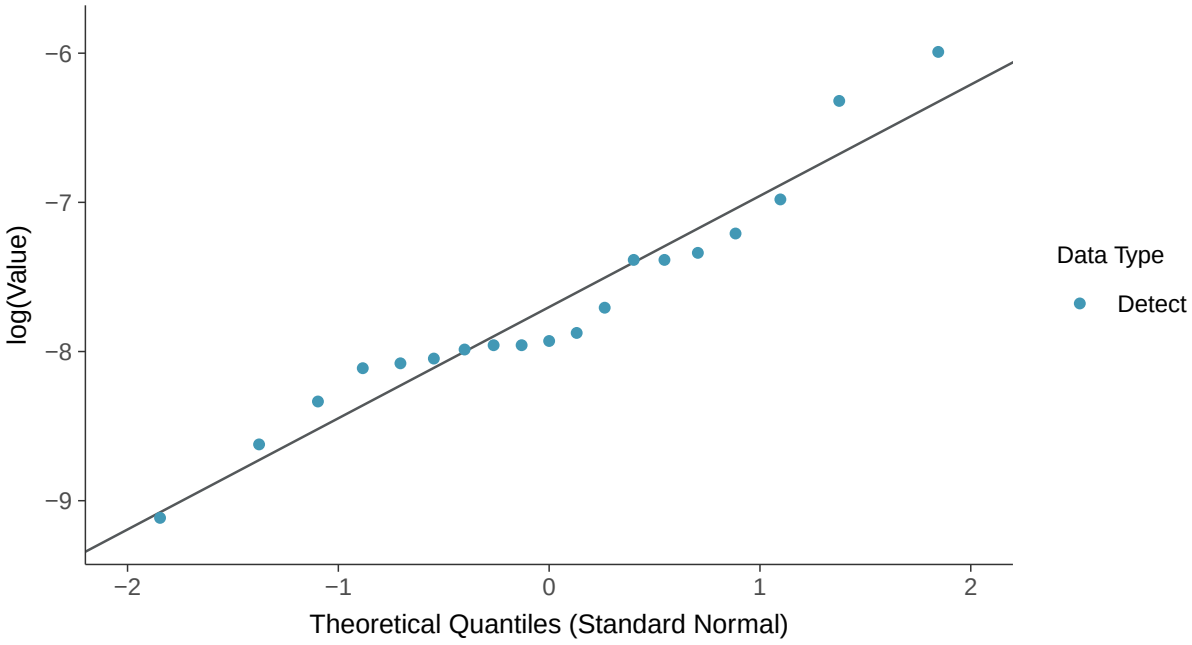
Boxplot by Season

Cobalt, MW-04 (mg/L)



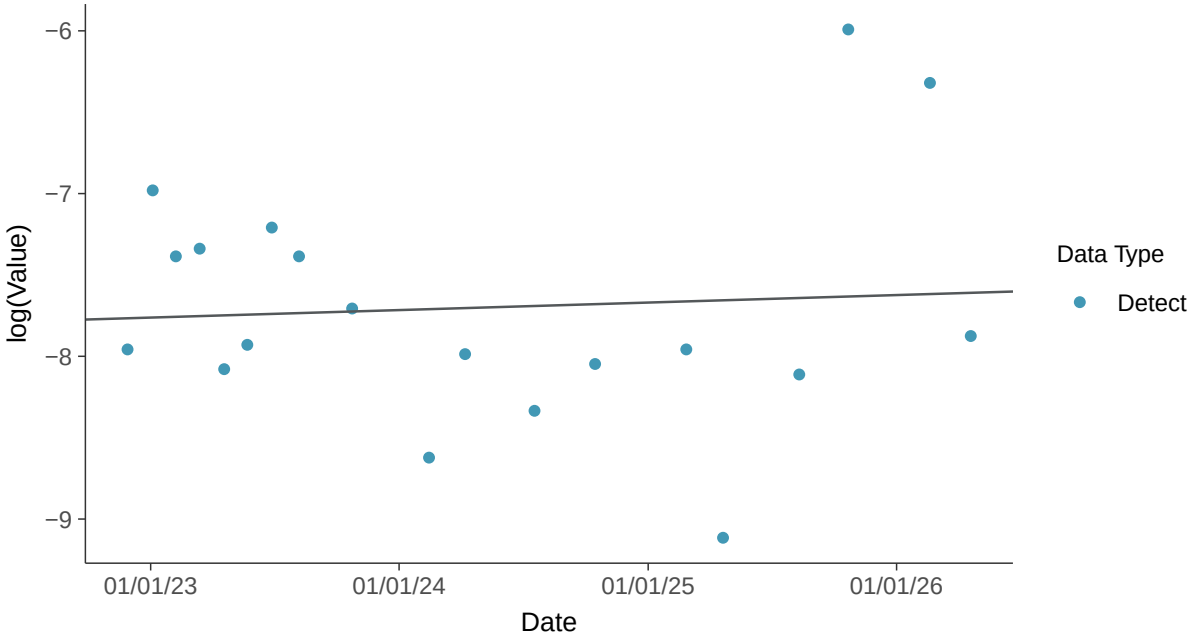
Lognormal Q-Q plot

Cobalt, MW-04 (mg/L)



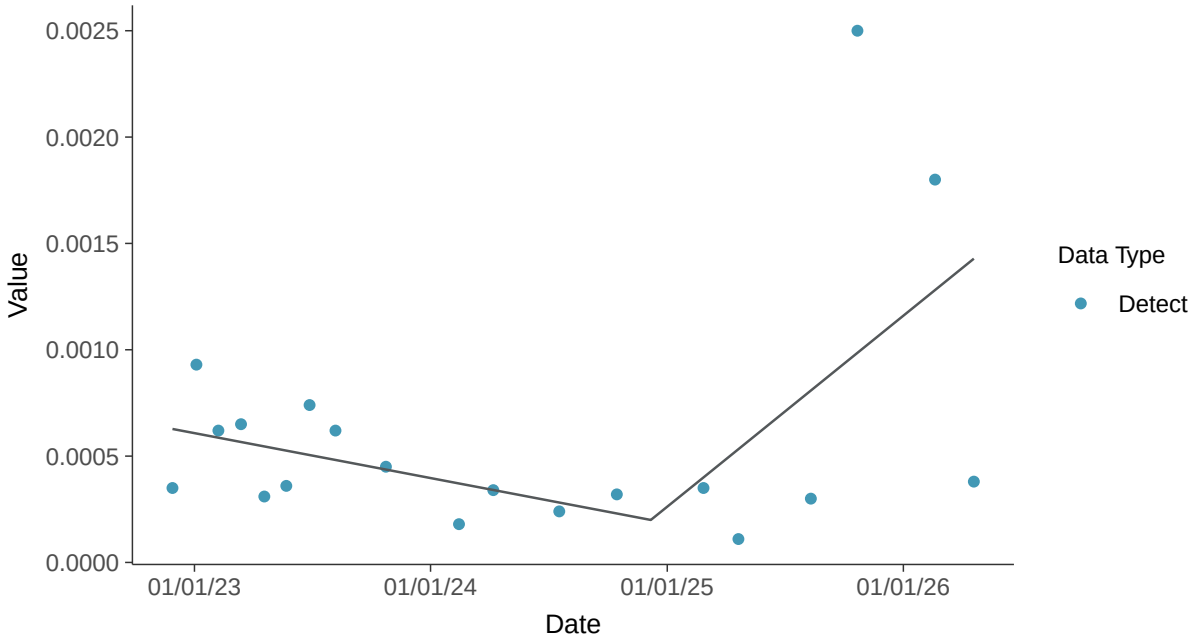
Trend Regression: Lognormal MLE

Cobalt, MW-04 (mg/L)



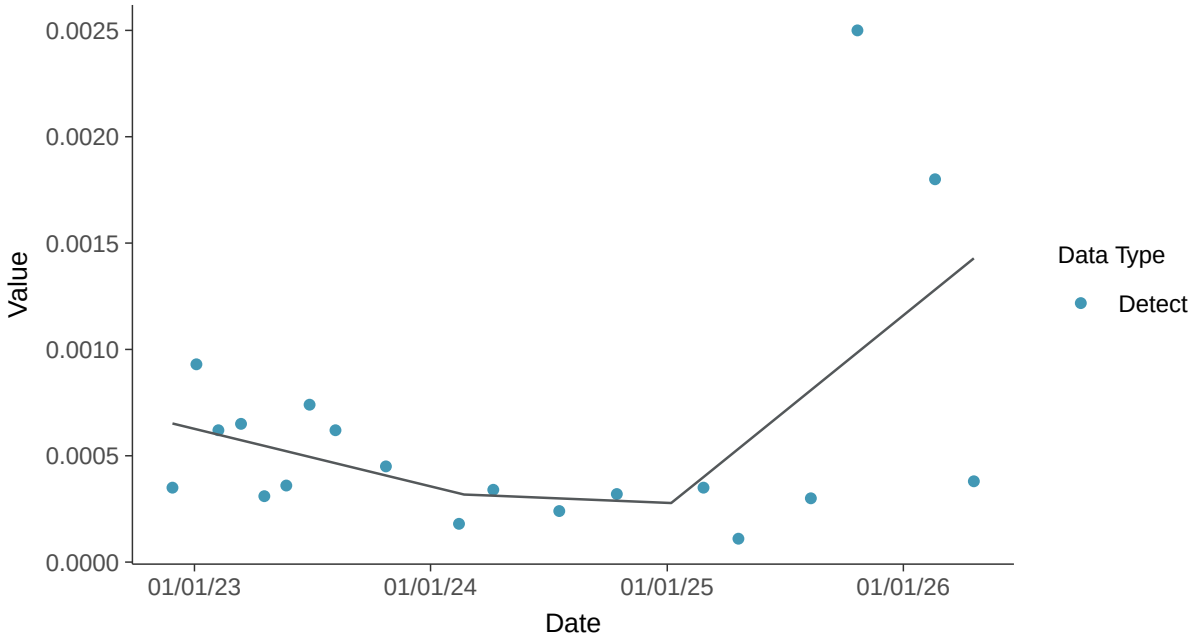
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-04 (mg/L)

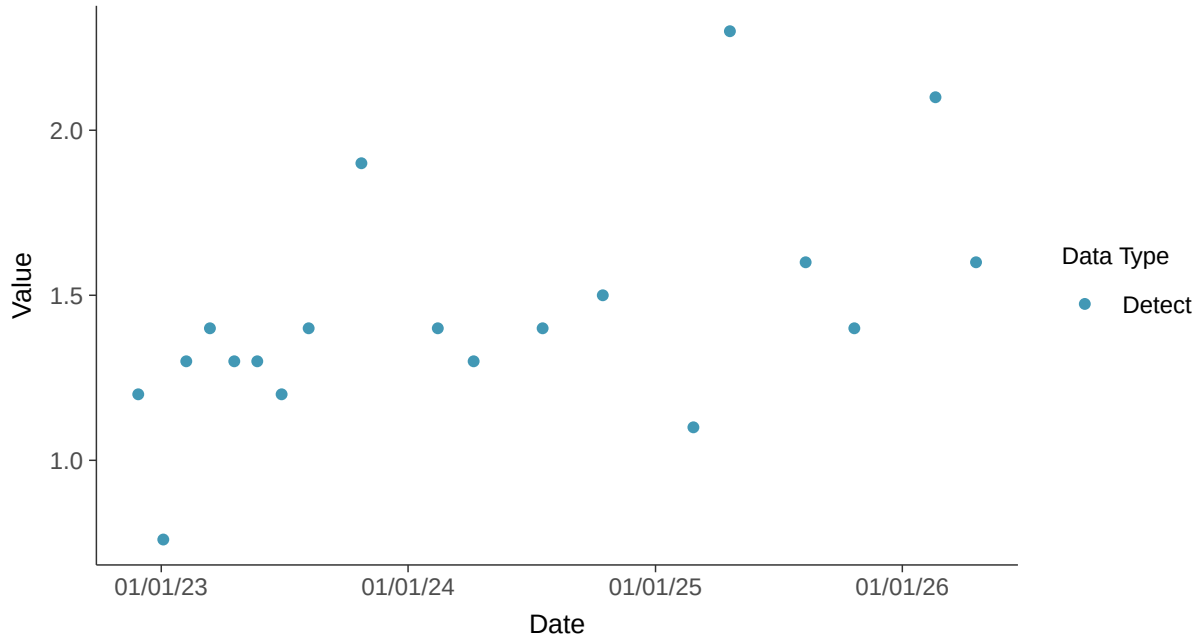


Appendix IV: Fluoride (App IV), MW-04

ID: 14_2_4_113

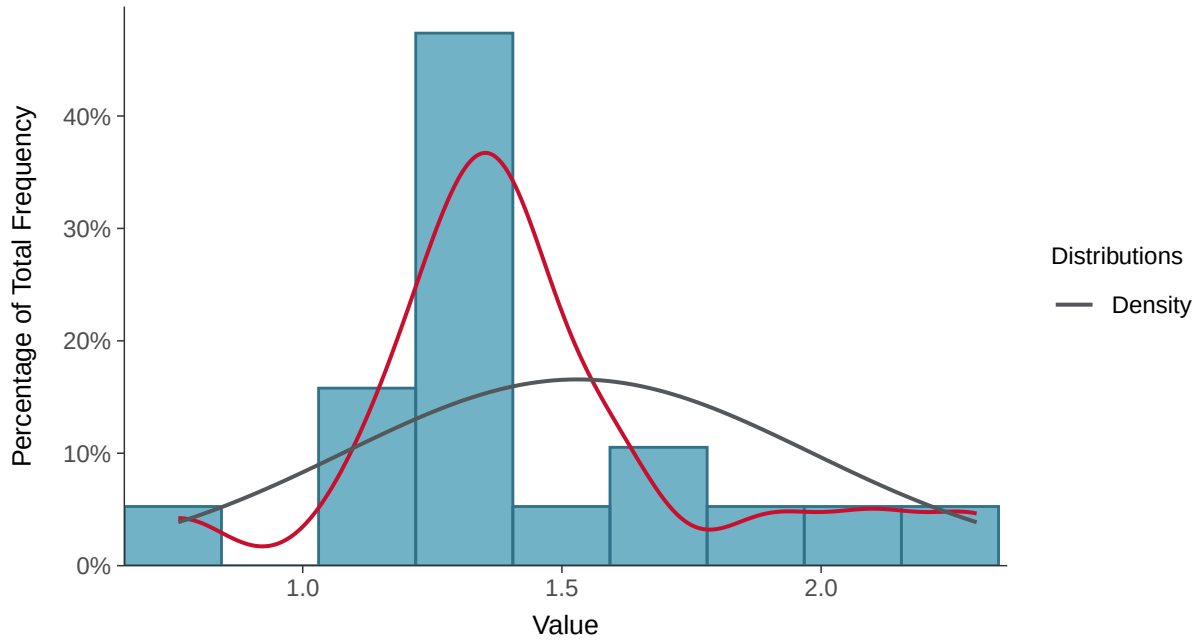
Scatter Plot

Fluoride (App IV), MW-04 (mg/L)



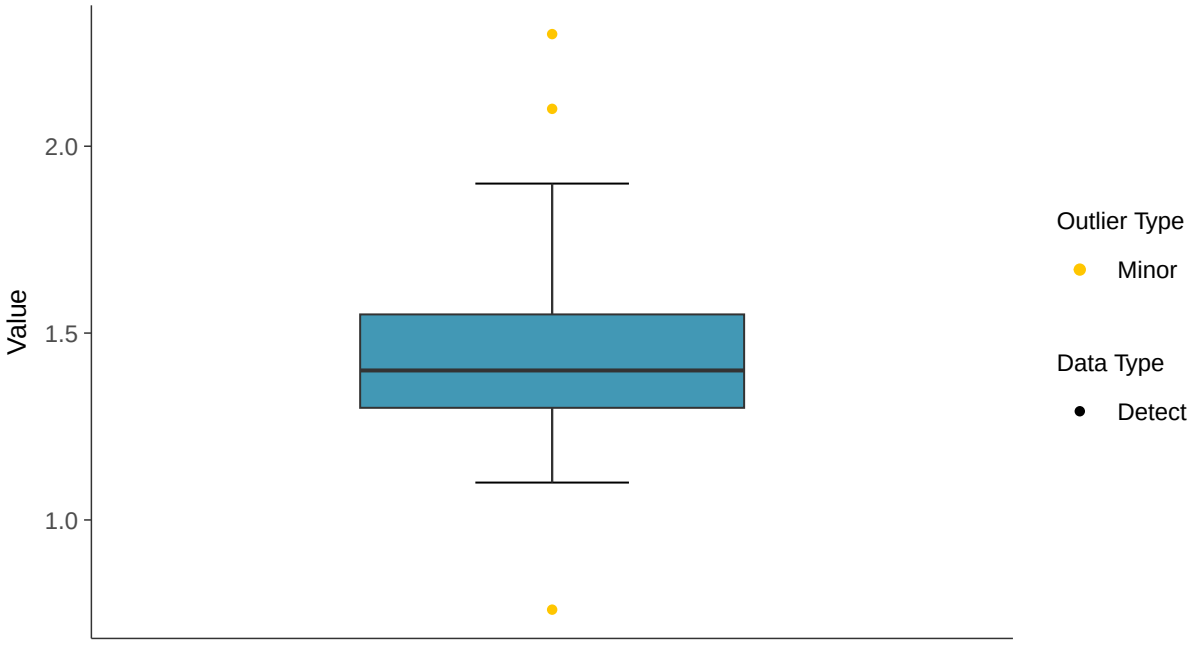
Histogram

Fluoride (App IV), MW-04 (mg/L)



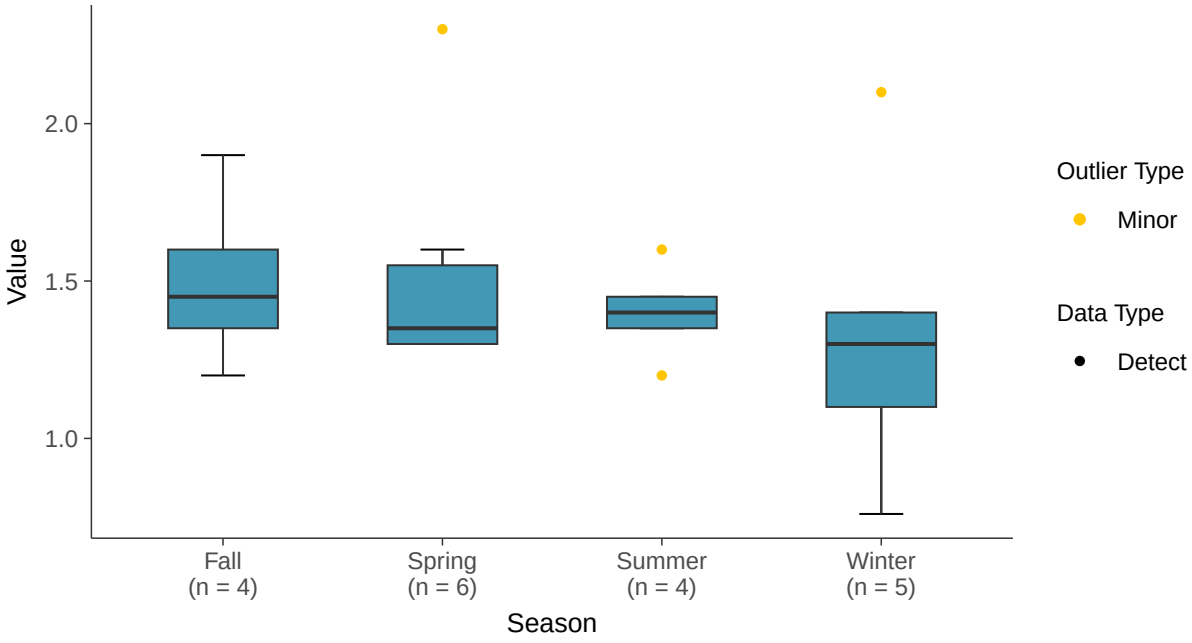
Boxplot

Fluoride (App IV), MW-04 (mg/L)



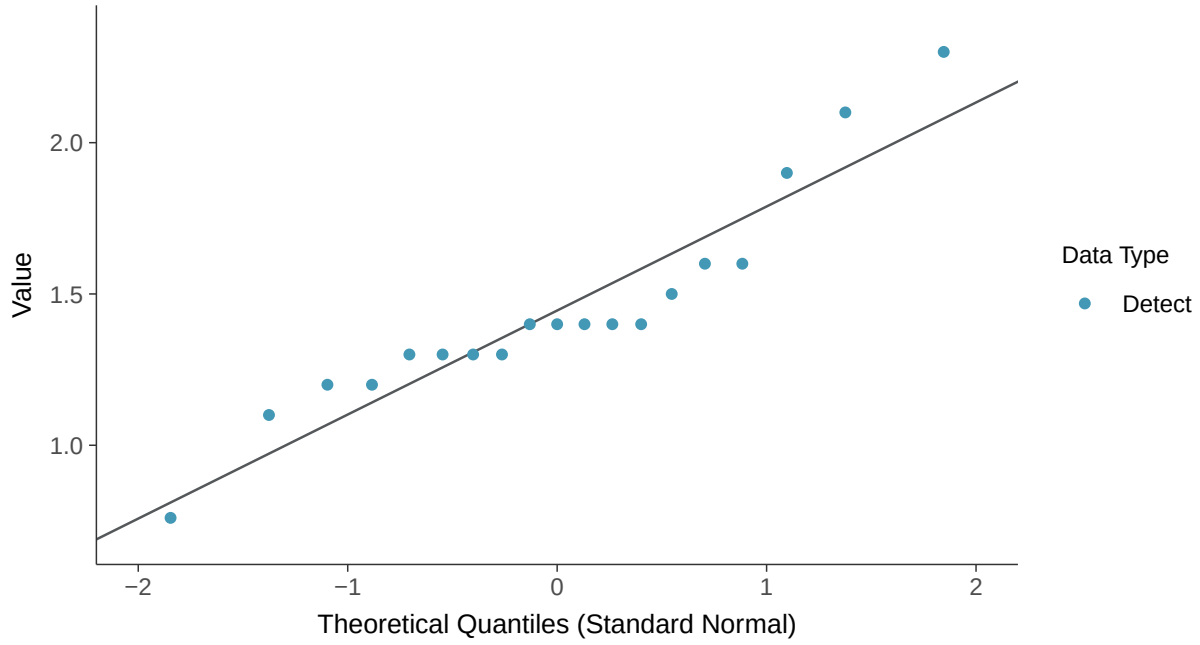
Boxplot by Season

Fluoride (App IV), MW-04 (mg/L)



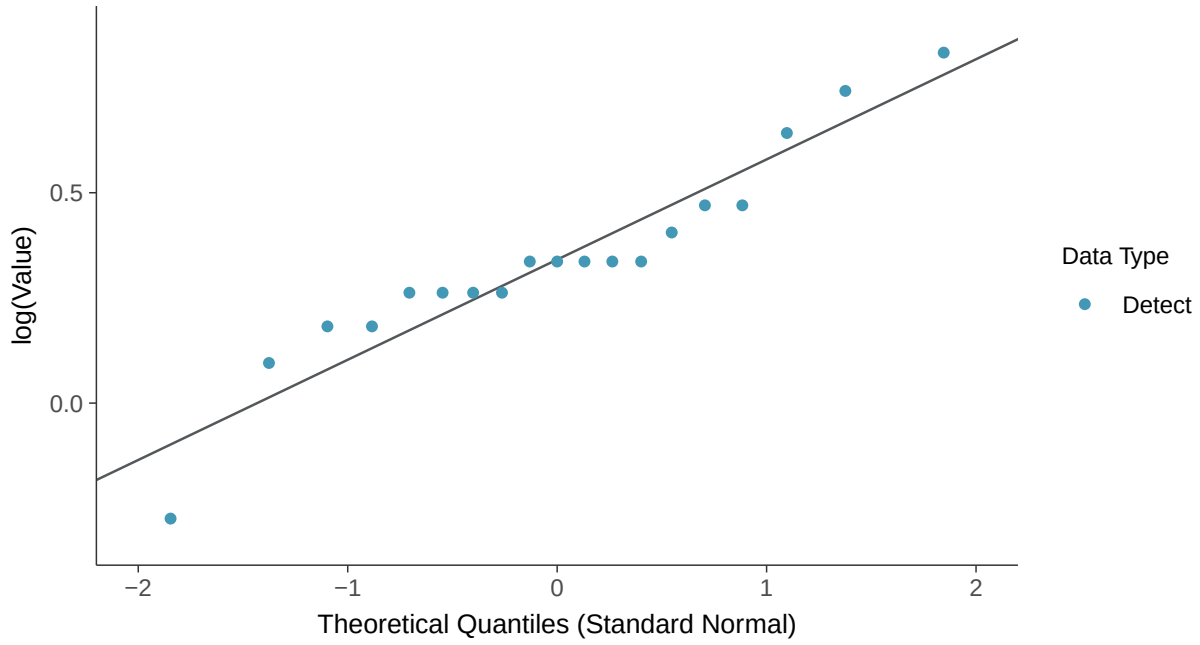
Normal Q-Q plot

Fluoride (App IV), MW-04 (mg/L)



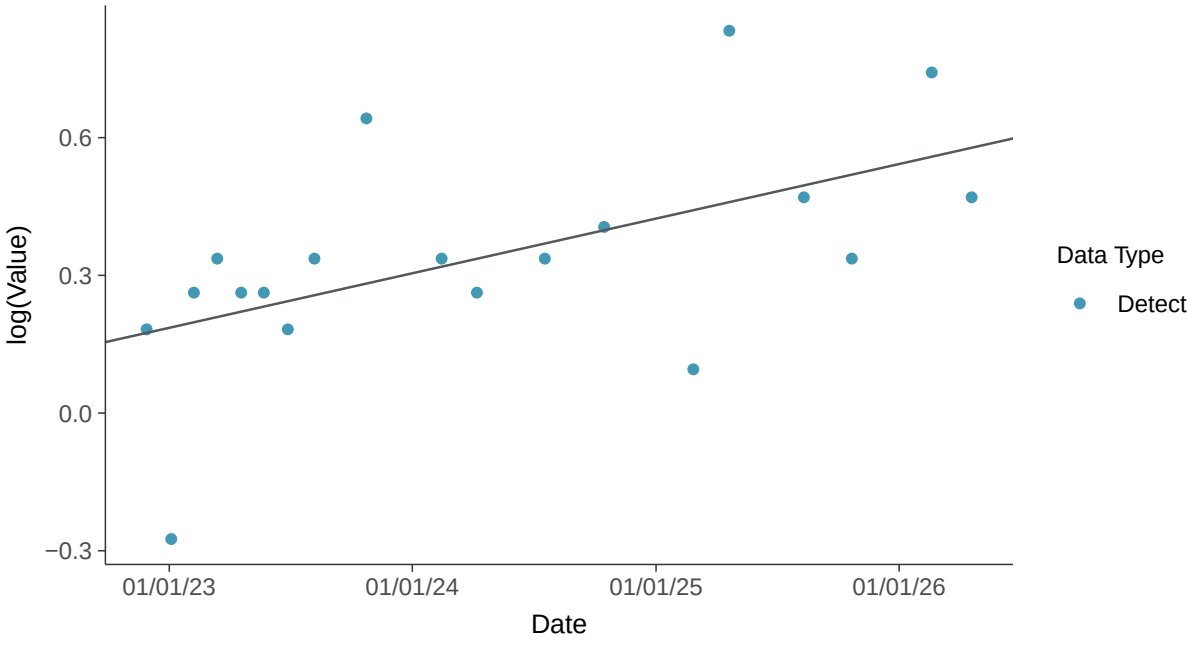
Lognormal Q-Q plot

Fluoride (App IV), MW-04 (mg/L)



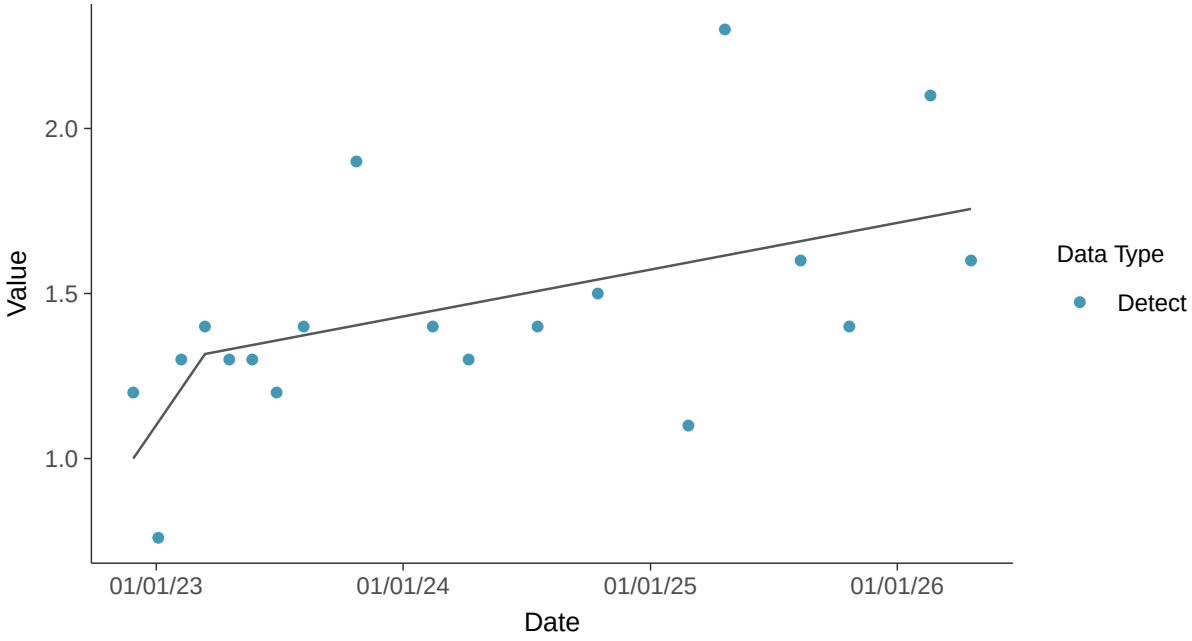
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-04 (mg/L)



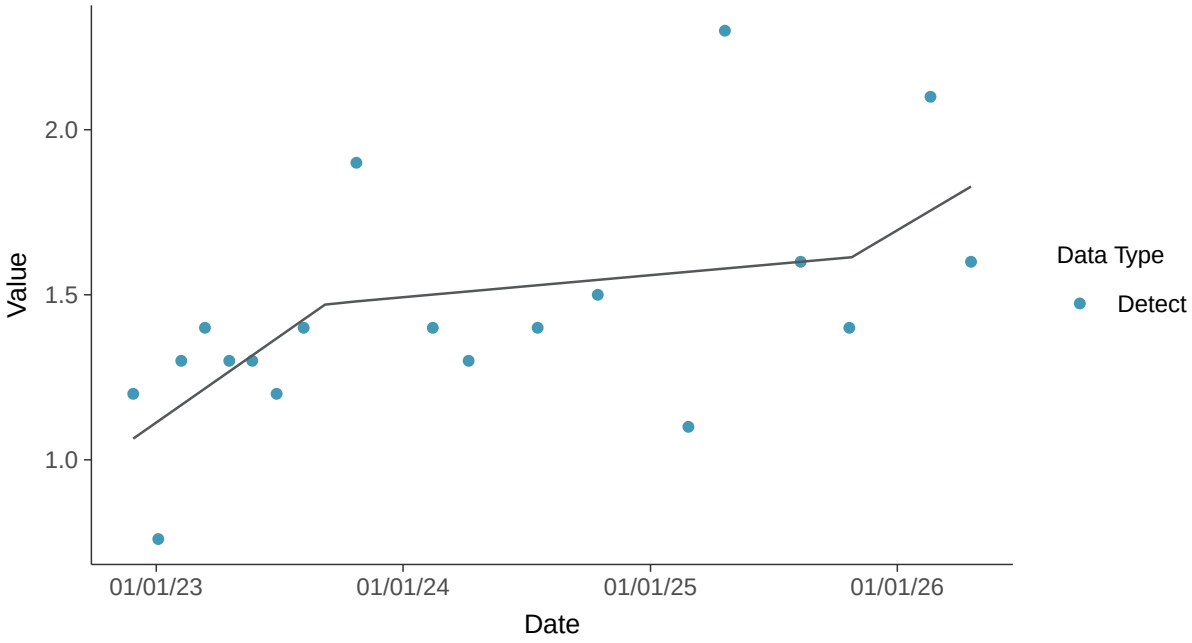
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-04 (mg/L)

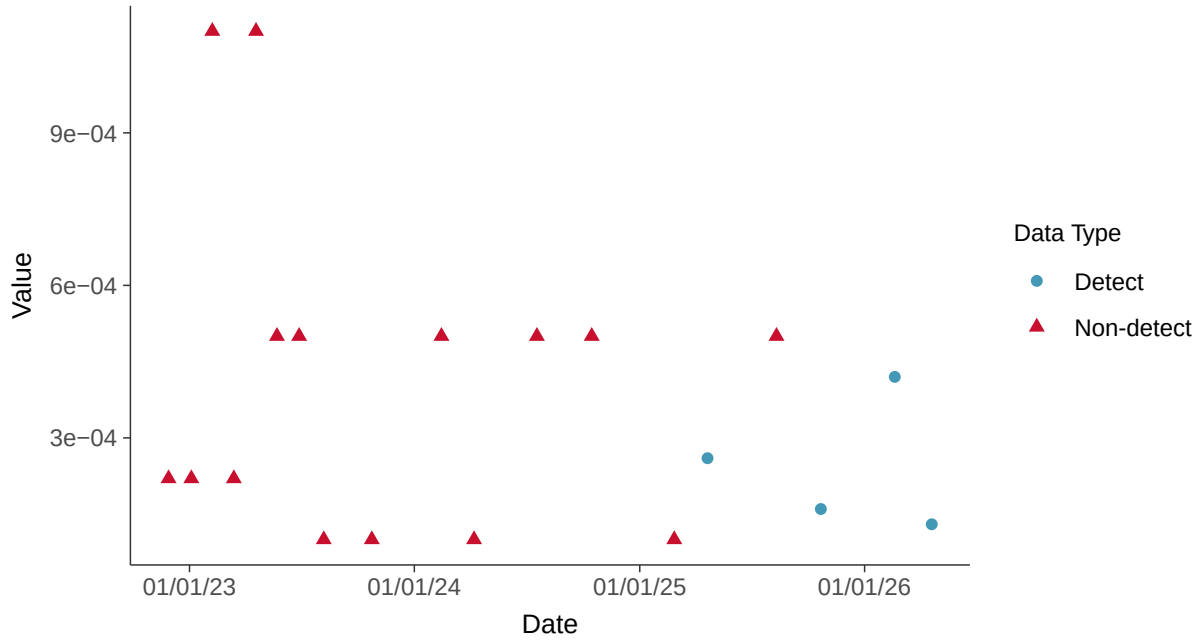


Appendix IV: Lead, MW-04

ID: 14_2_4_115

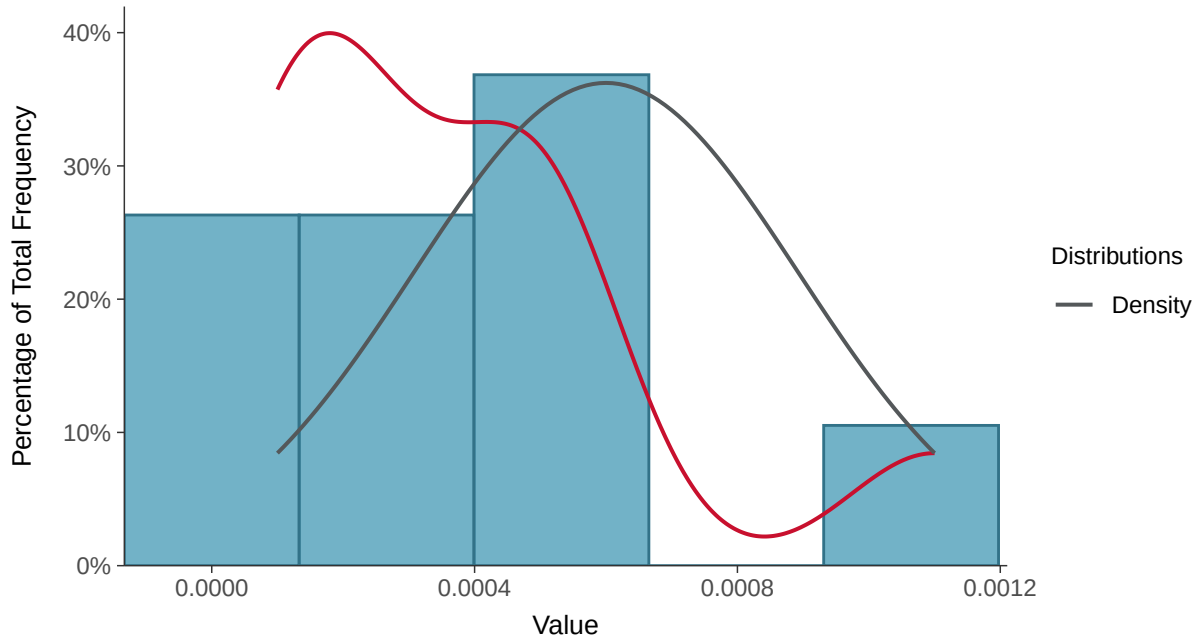
Scatter Plot

Lead, MW-04 (mg/L)



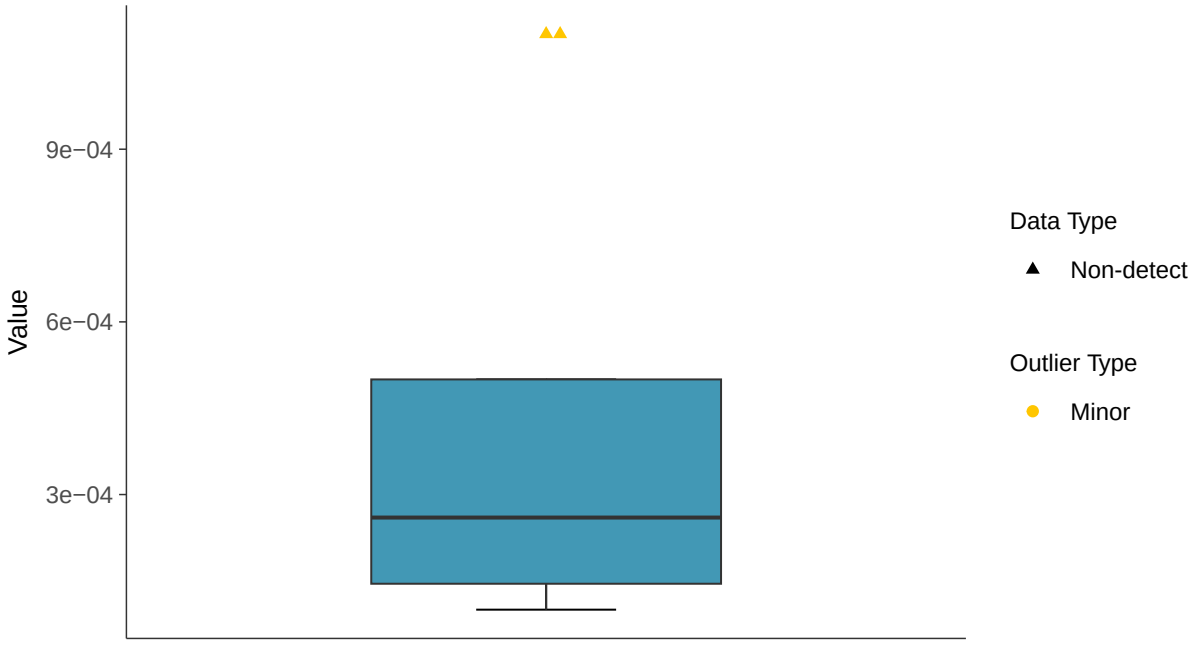
Histogram

Lead, MW-04 (mg/L)



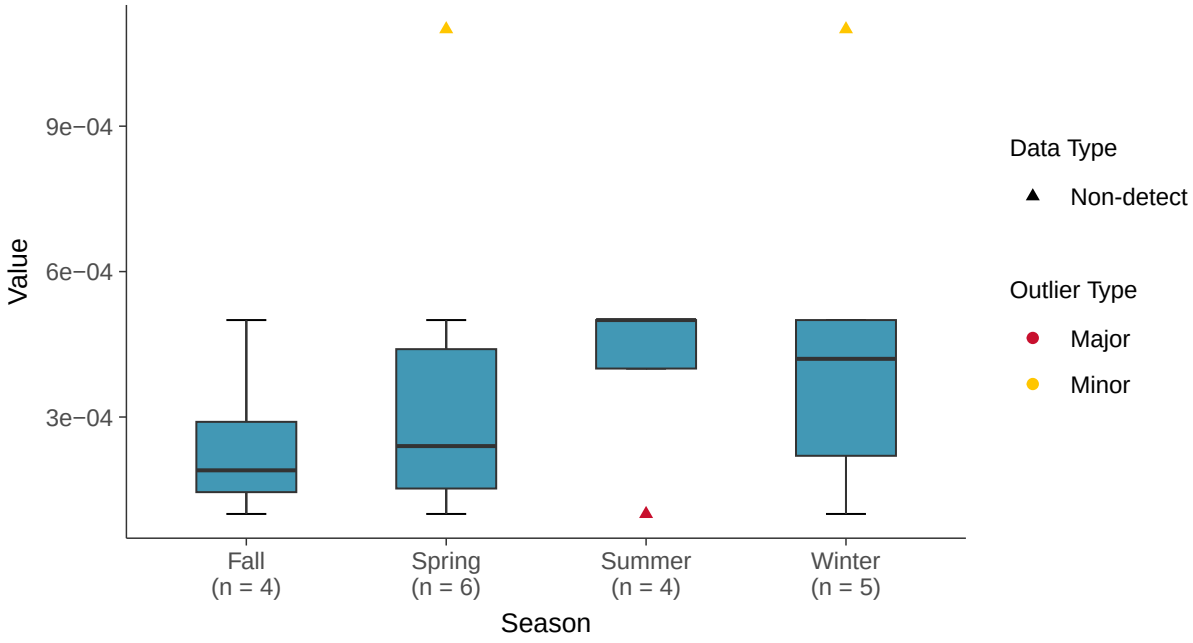
Boxplot

Lead, MW-04 (mg/L)



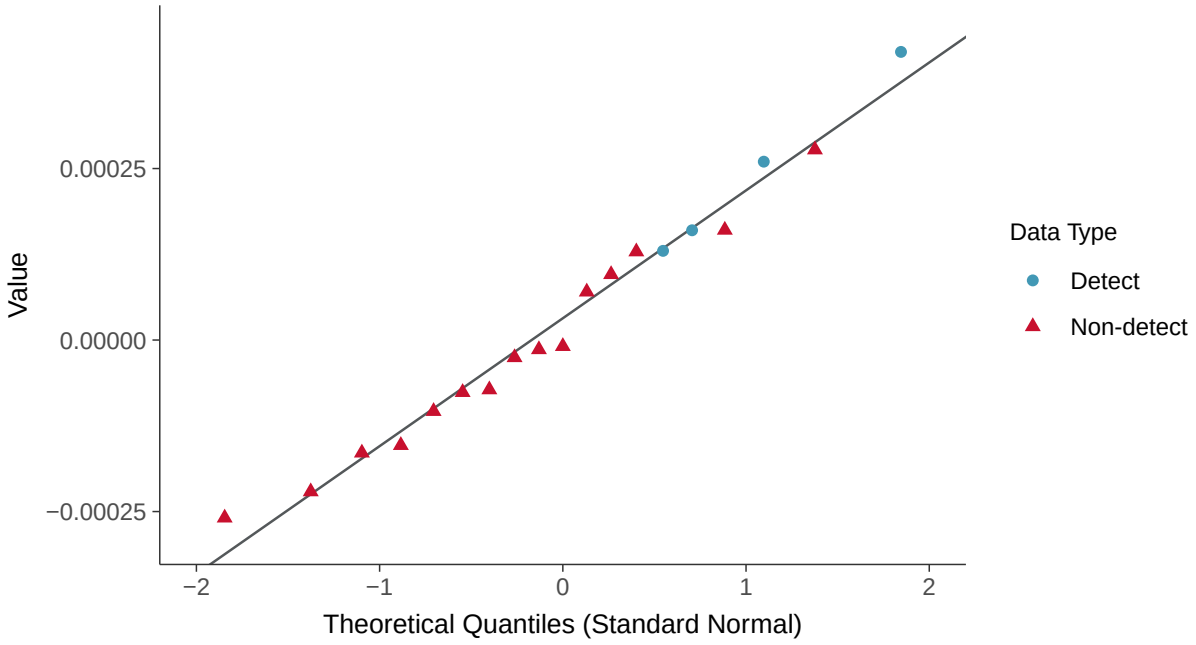
Boxplot by Season

Lead, MW-04 (mg/L)



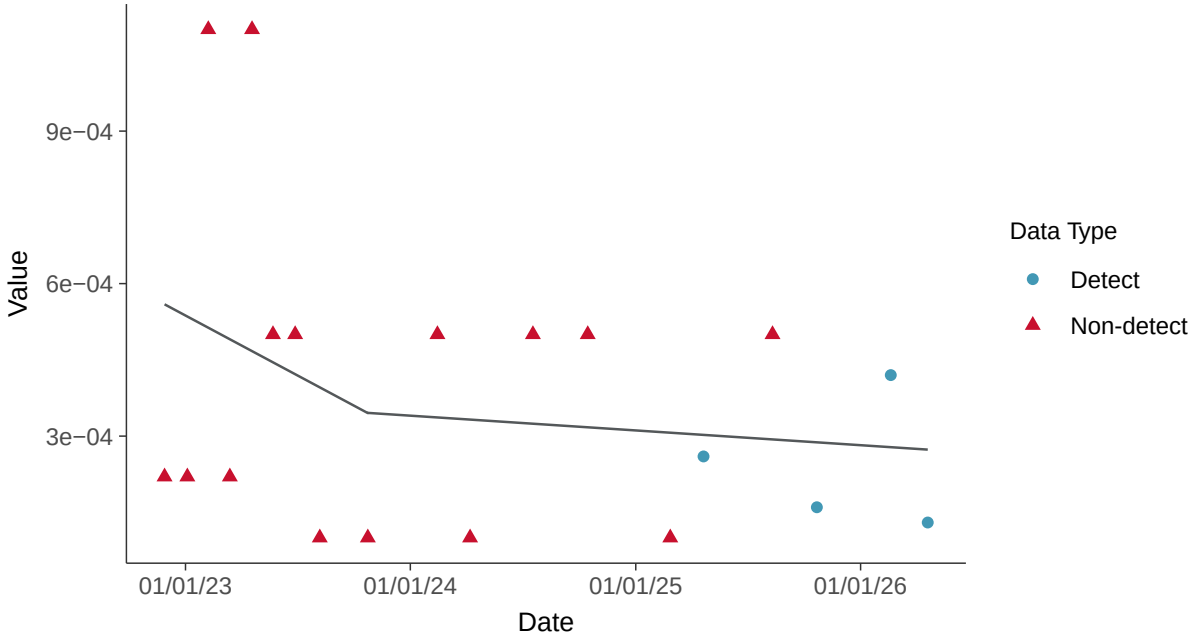
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-04 (mg/L)



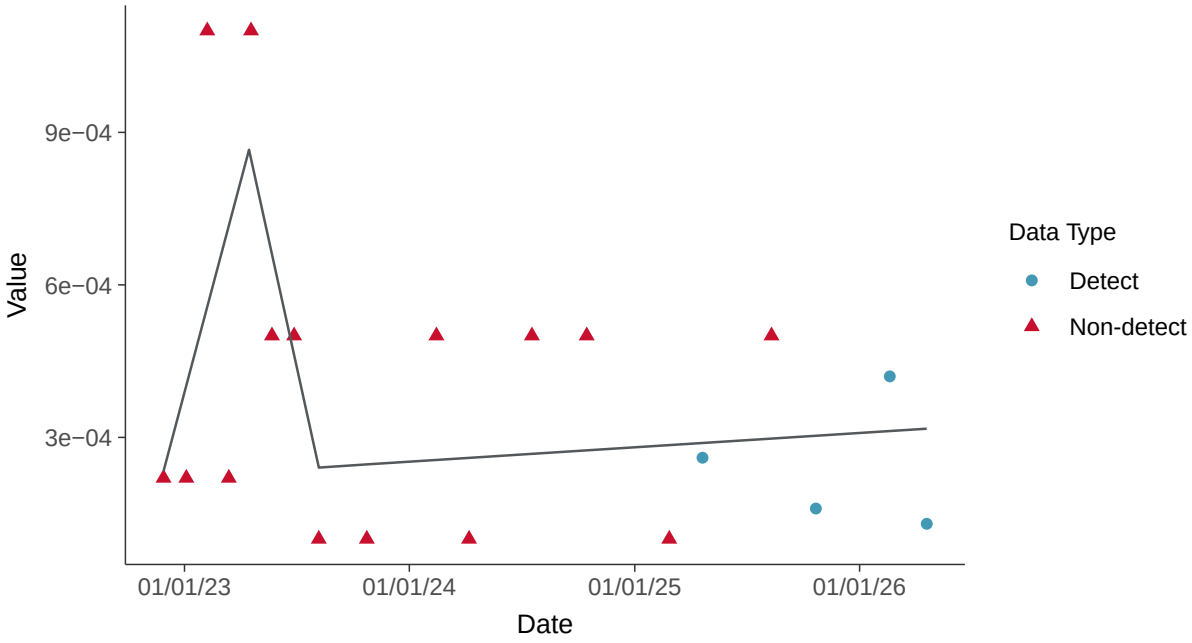
Trend Regression: Piecewise Linear-Linear

Lead, MW-04 (mg/L)



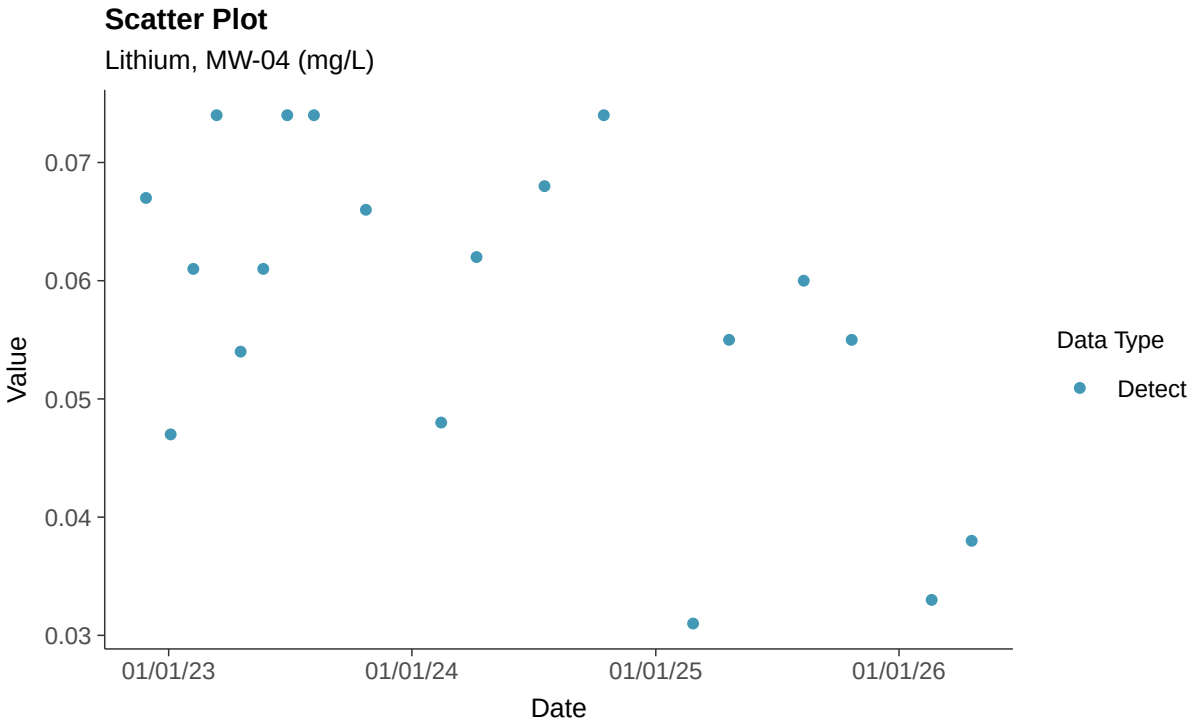
Trend Regression: Piecewise Linear-Linear-Linear

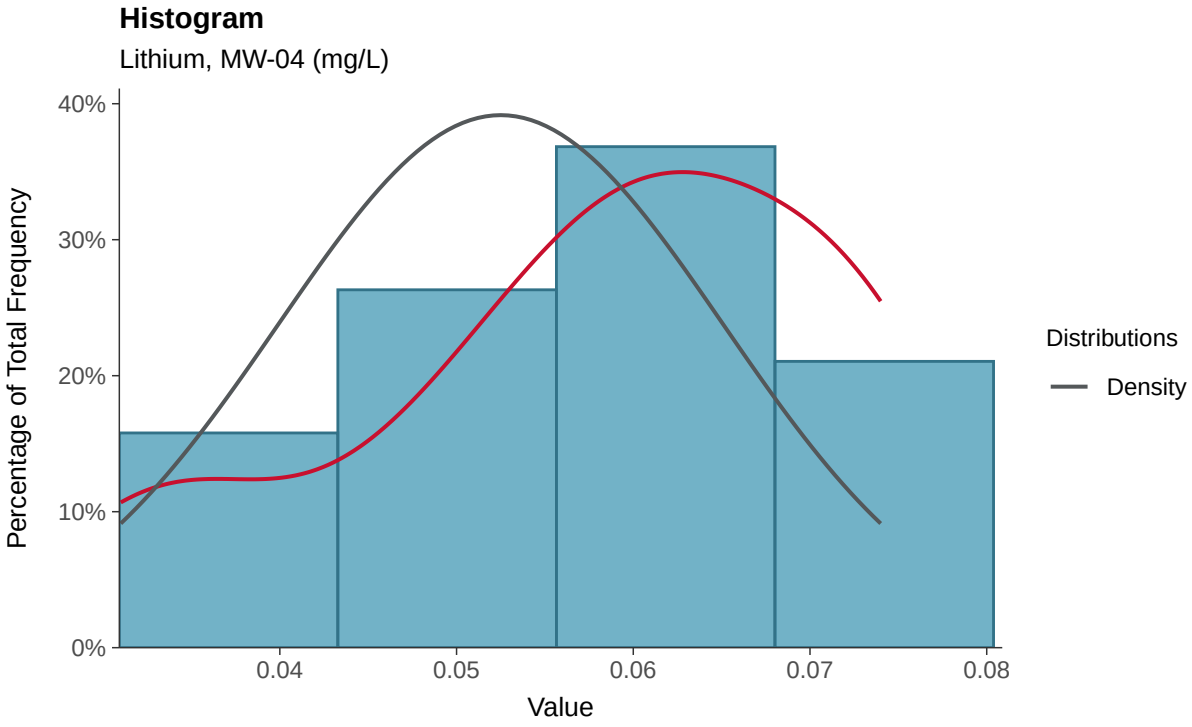
Lead, MW-04 (mg/L)



Appendix IV: Lithium, MW-04

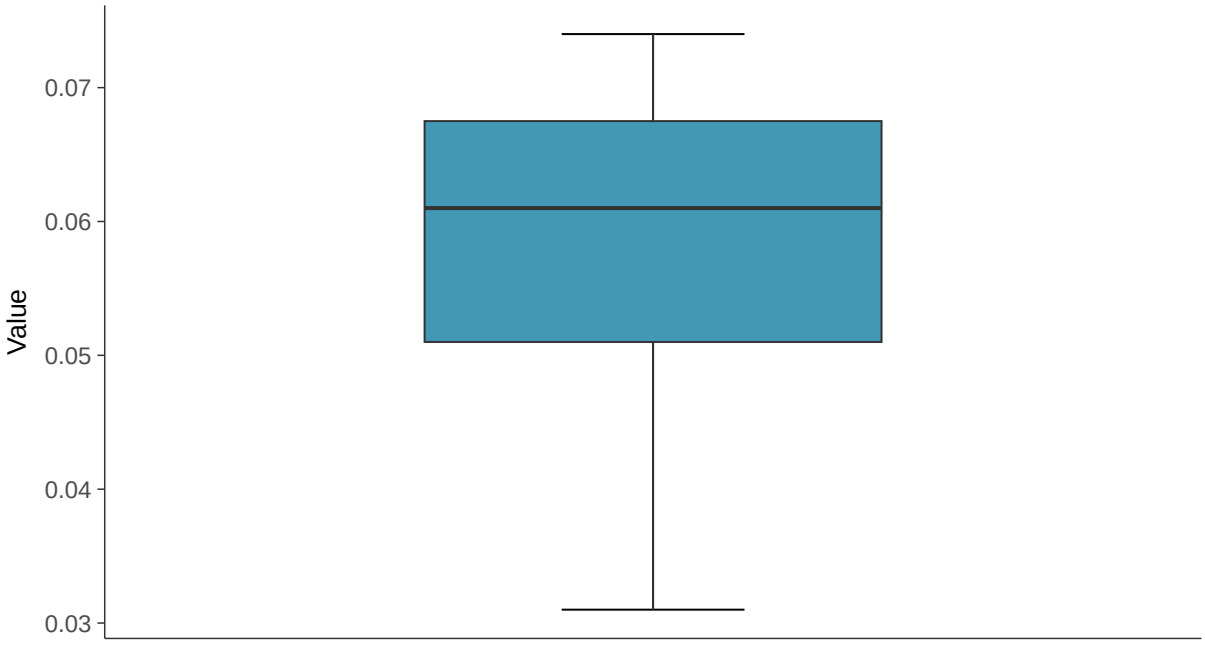
ID: 14_2_4_116





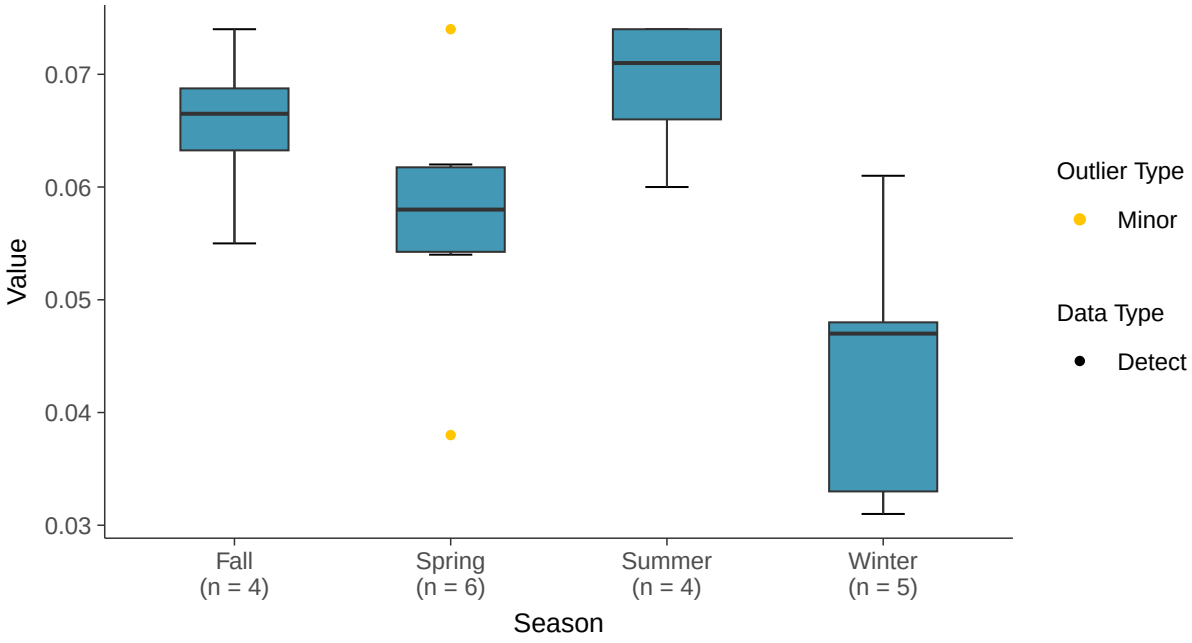
Boxplot

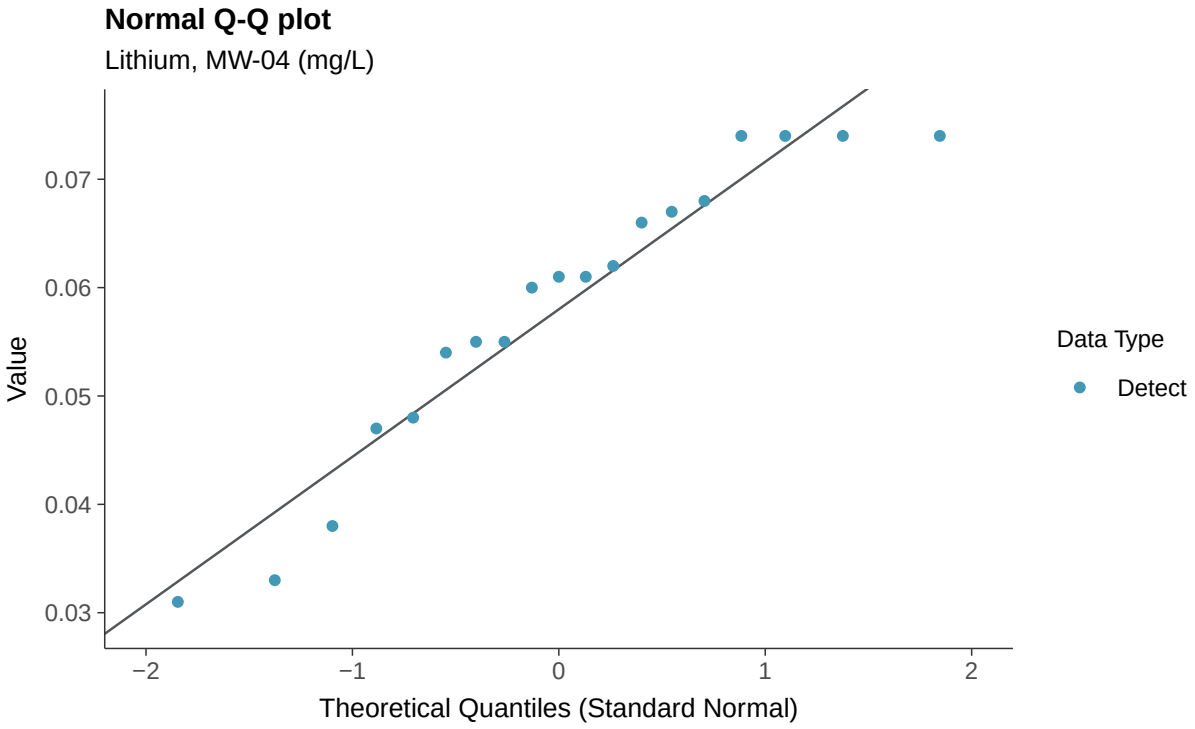
Lithium, MW-04 (mg/L)

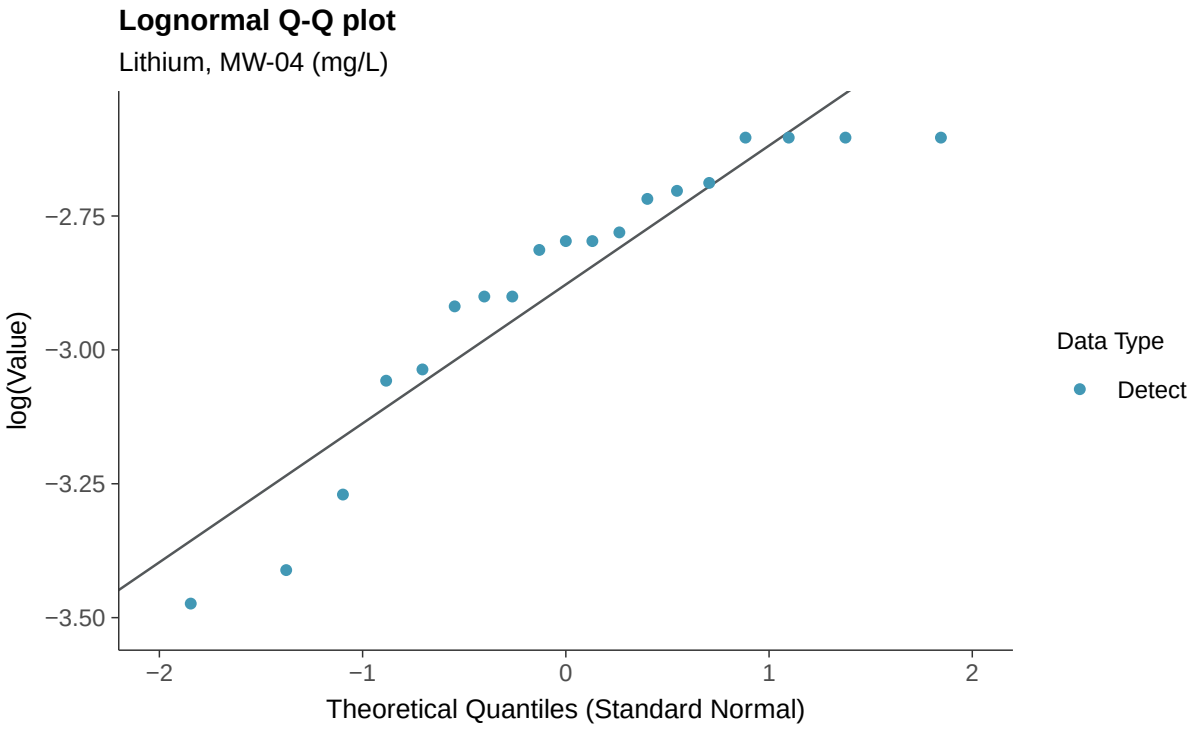


Boxplot by Season

Lithium, MW-04 (mg/L)

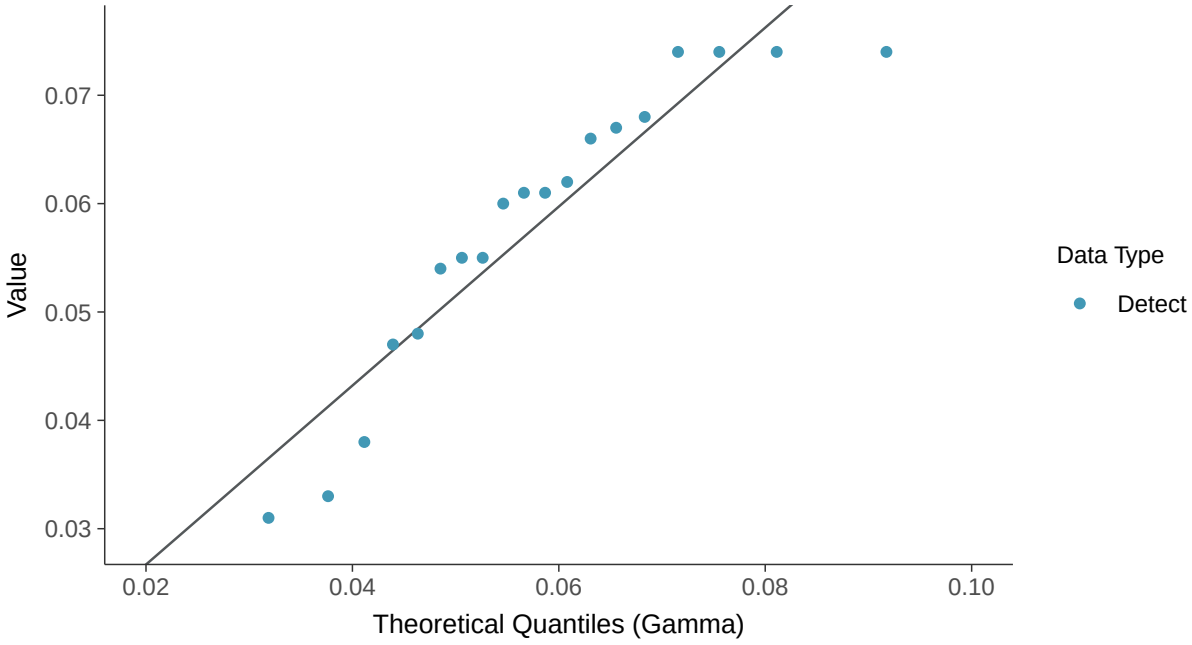



Normal Q-Q plot
Lithium, MW-04 (mg/L)
Value
0.07
0.06
0.05
0.04
0.03
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Lithium, MW-04 (mg/L)
log(Value)
−2.75
−3.00
−3.25
−3.50
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

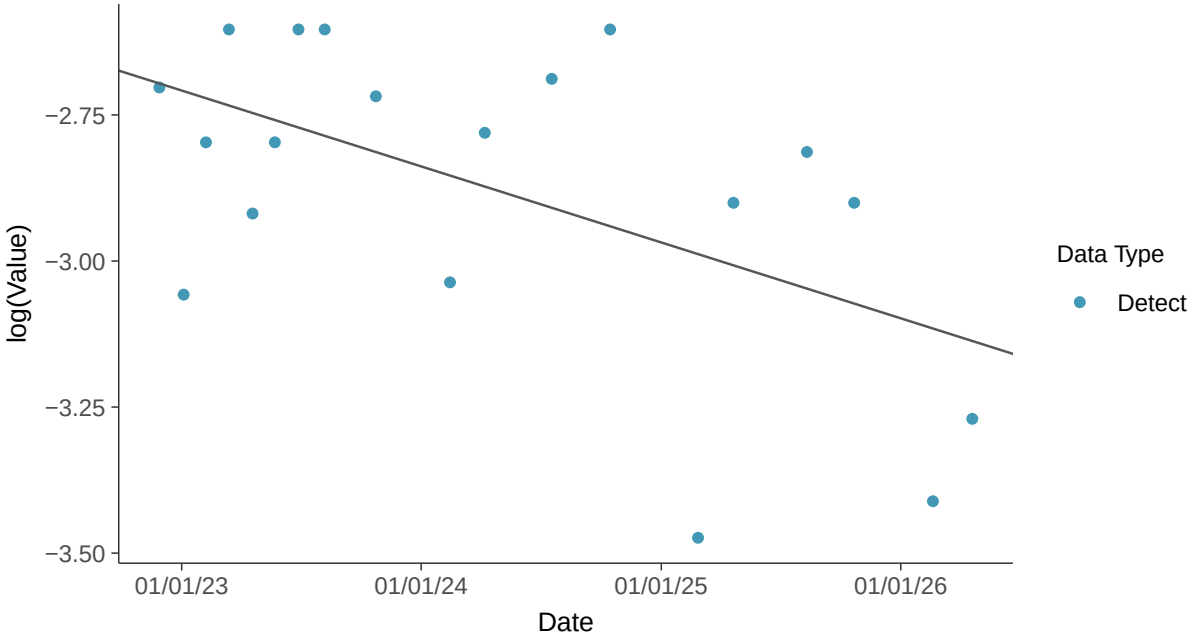
Gamma Q-Q plot

Lithium, MW-04 (mg/L)



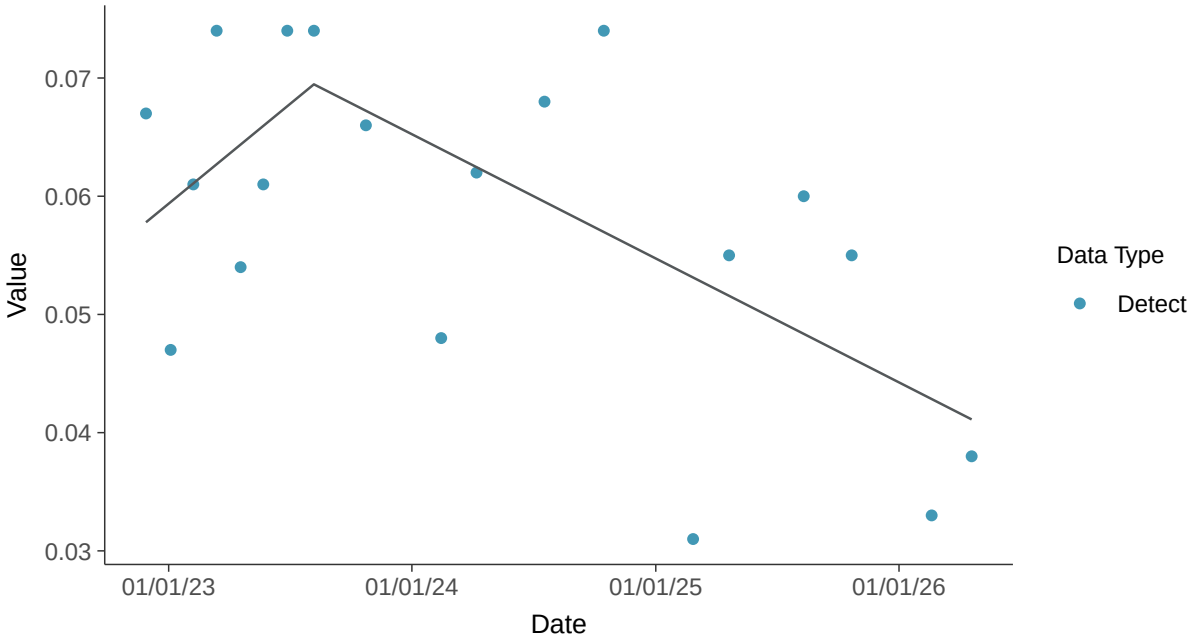
Trend Regression: Lognormal MLE

Lithium, MW-04 (mg/L)



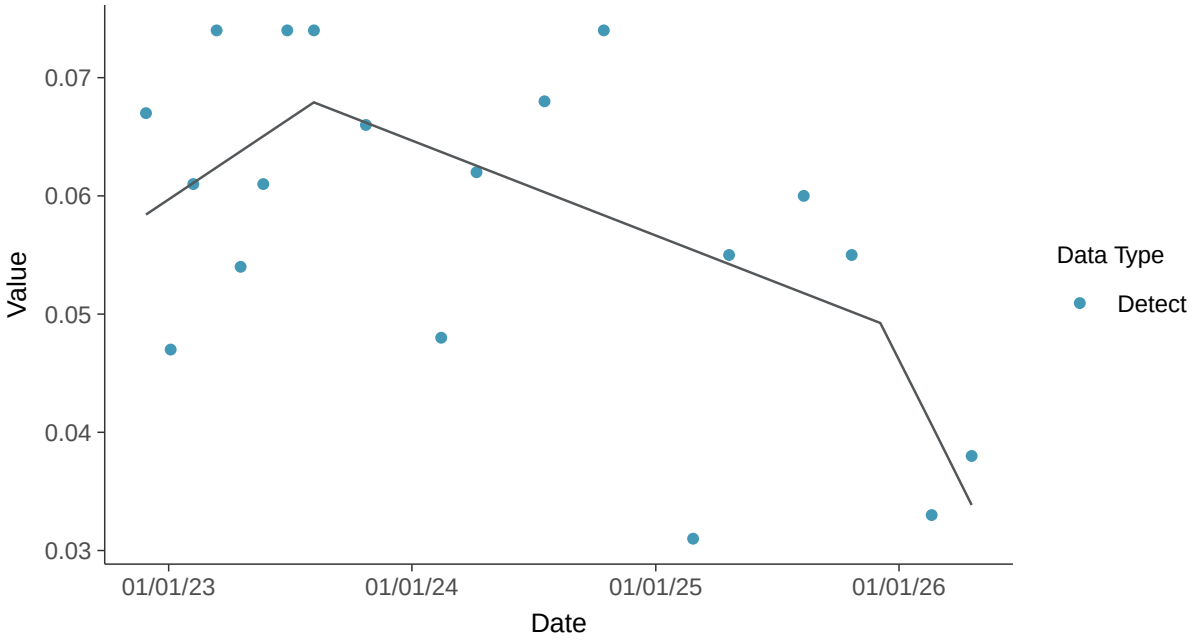
Trend Regression: Piecewise Linear-Linear

Lithium, MW-04 (mg/L)



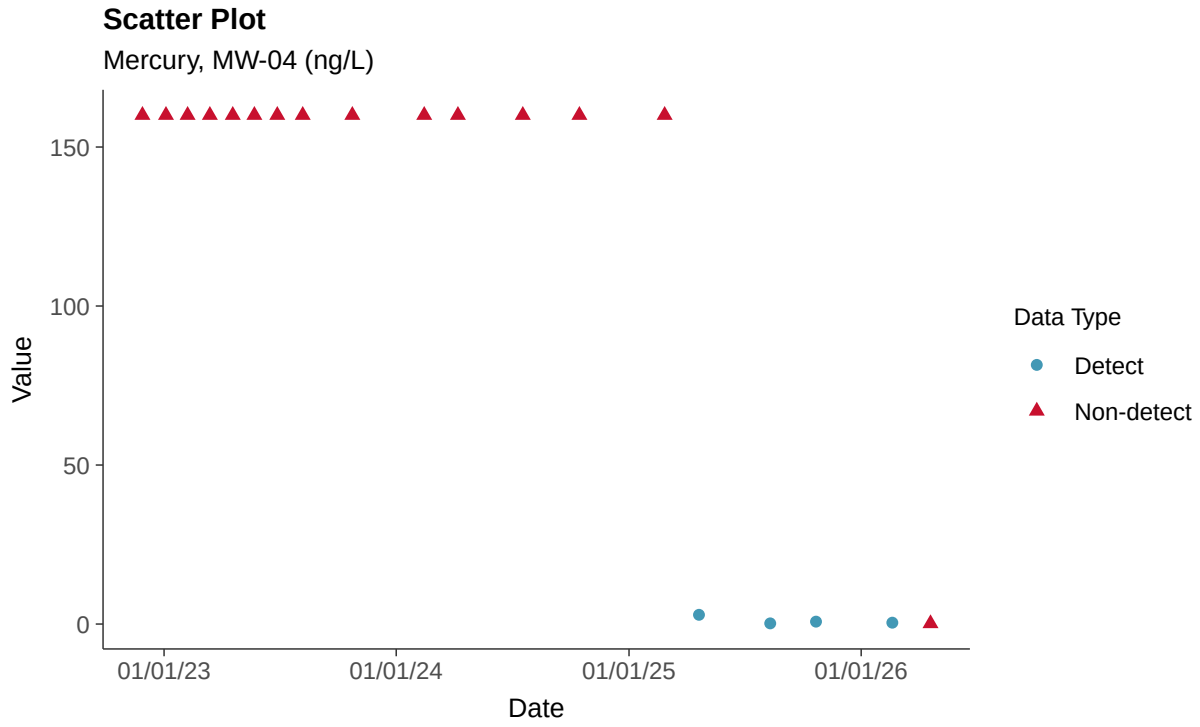
Trend Regression: Piecewise Linear-Linear-Linear

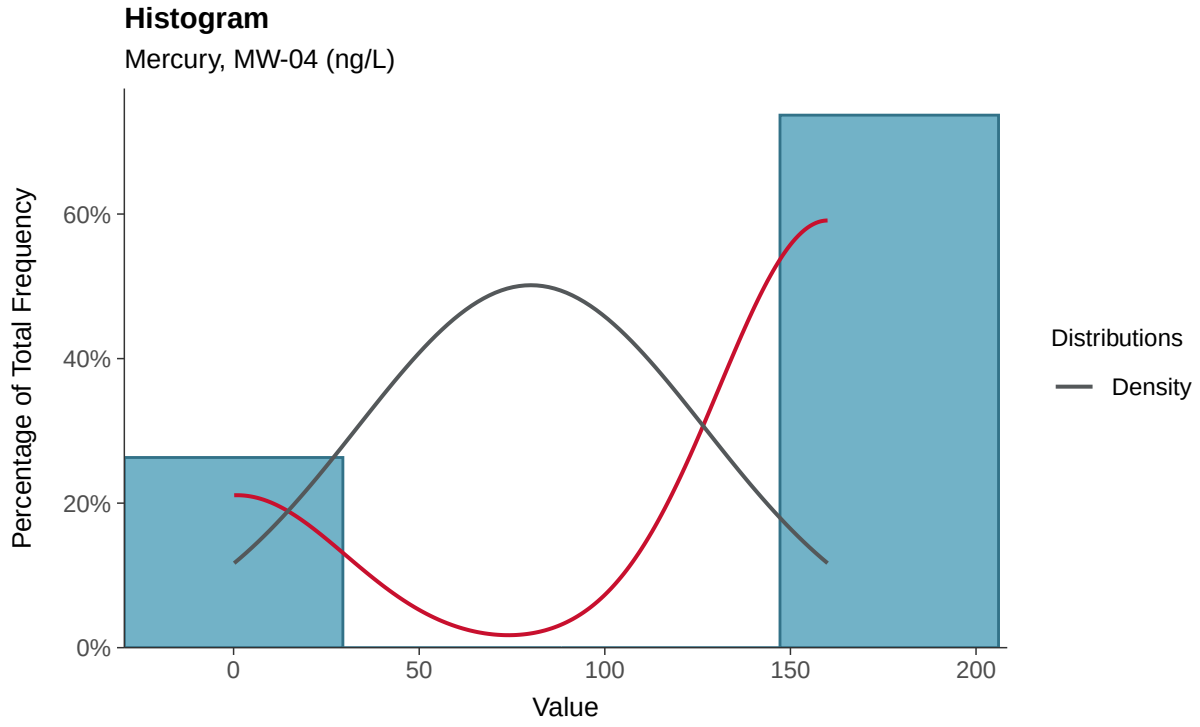
Lithium, MW-04 (mg/L)



Appendix IV: Mercury, MW-04

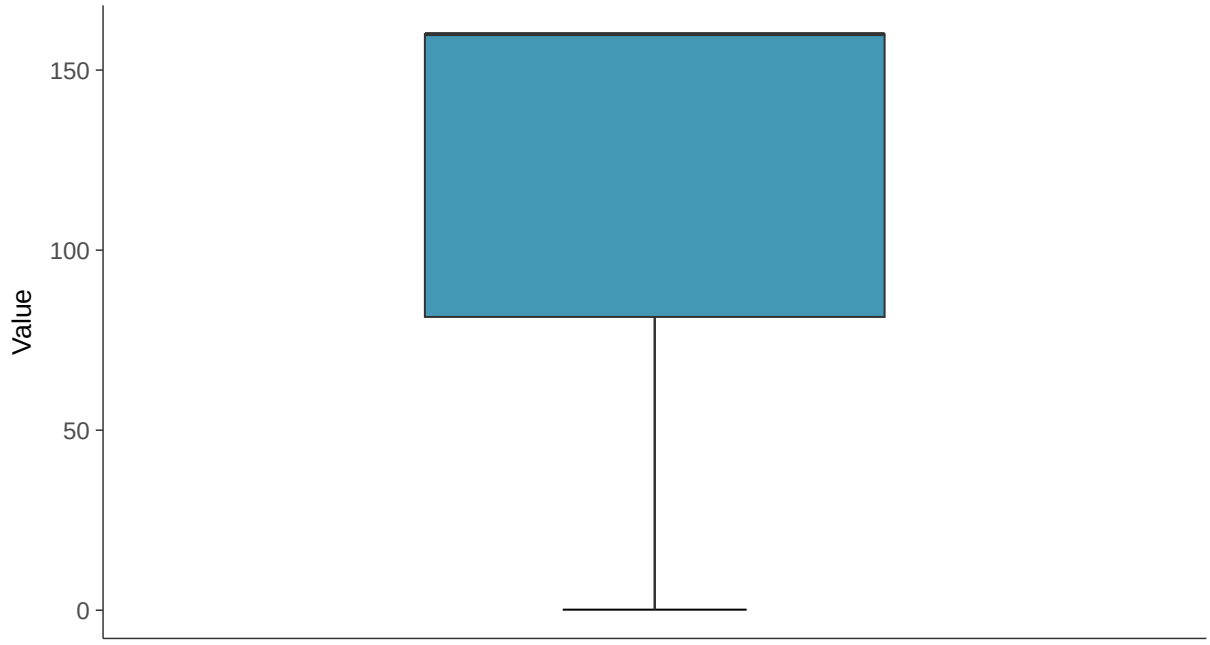
ID: 14_2_4_117





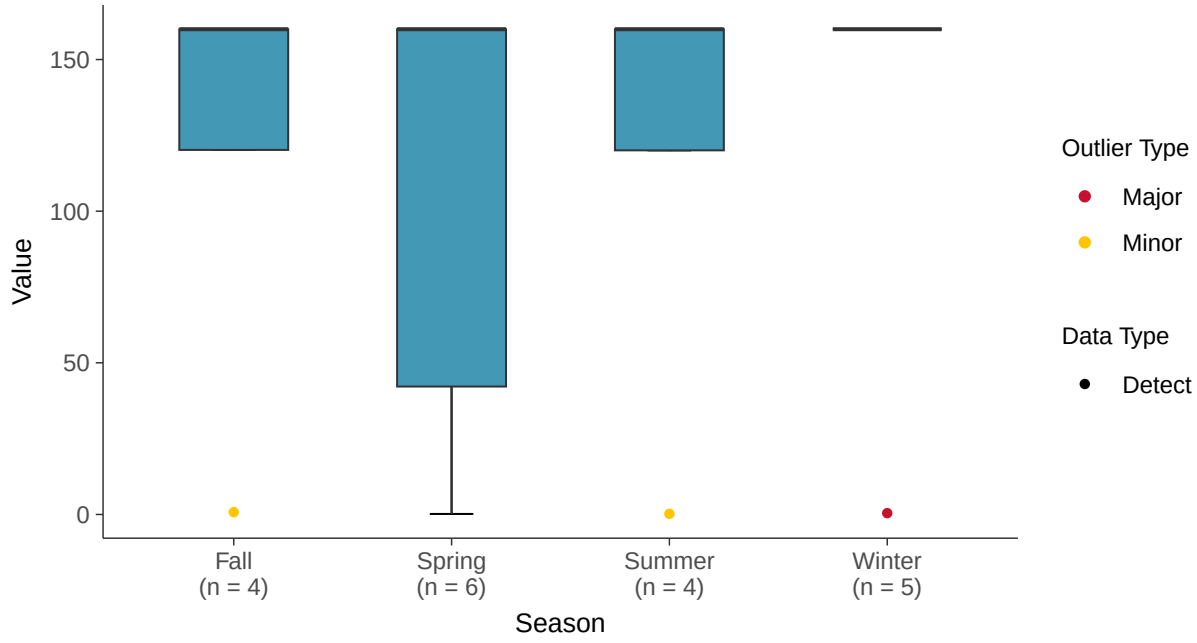
Boxplot

Mercury, MW-04 (ng/L)



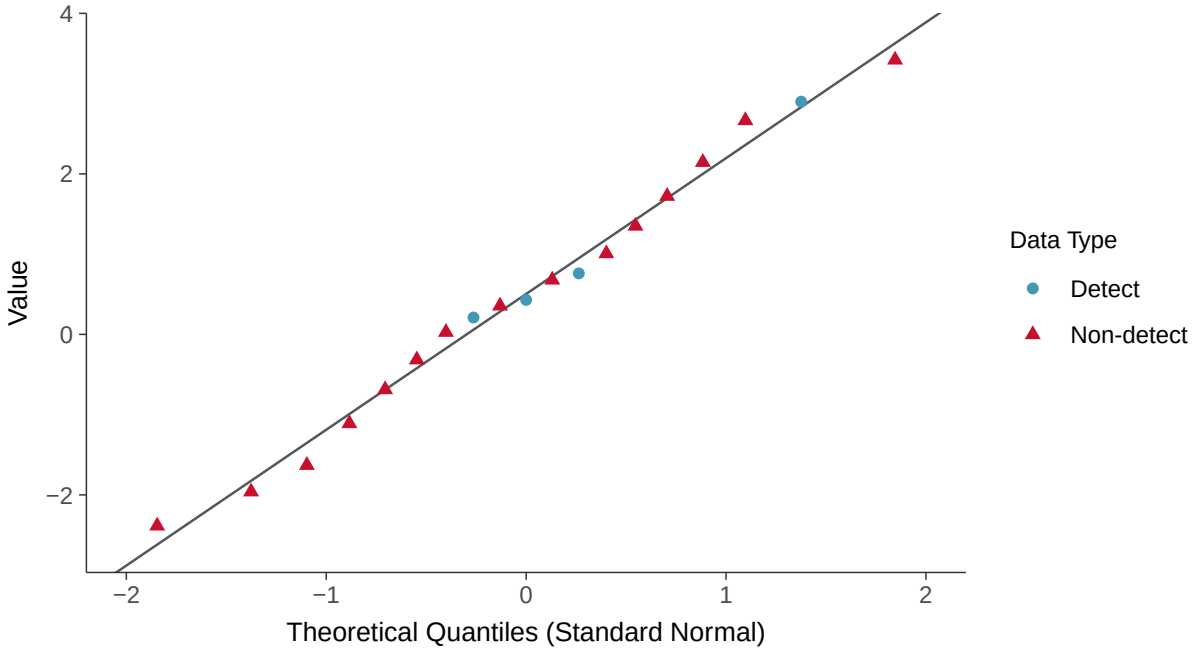
Boxplot by Season

Mercury, MW-04 (ng/L)



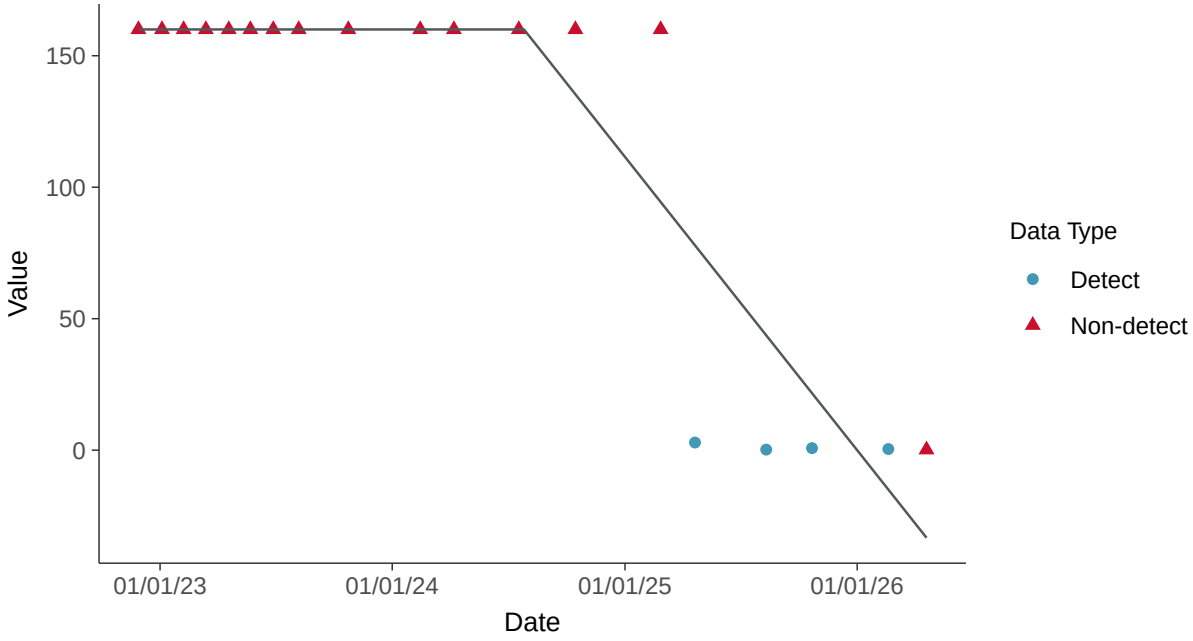
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-04 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-04 (ng/L)

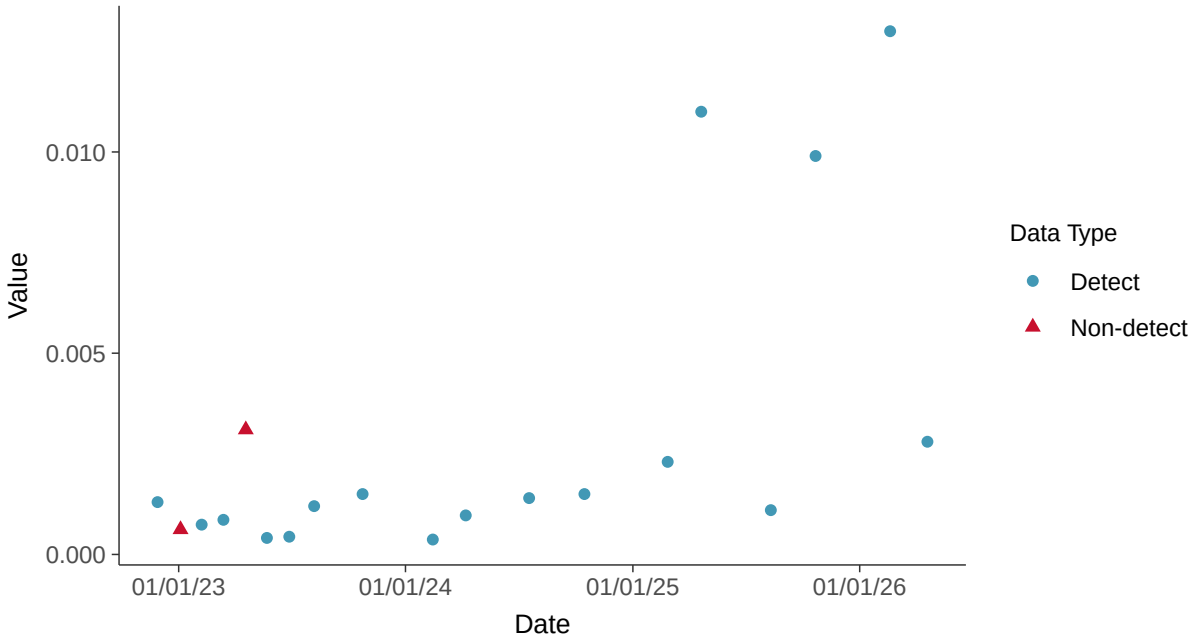


Appendix IV: Molybdenum, MW-04

ID: 14_2_4_118

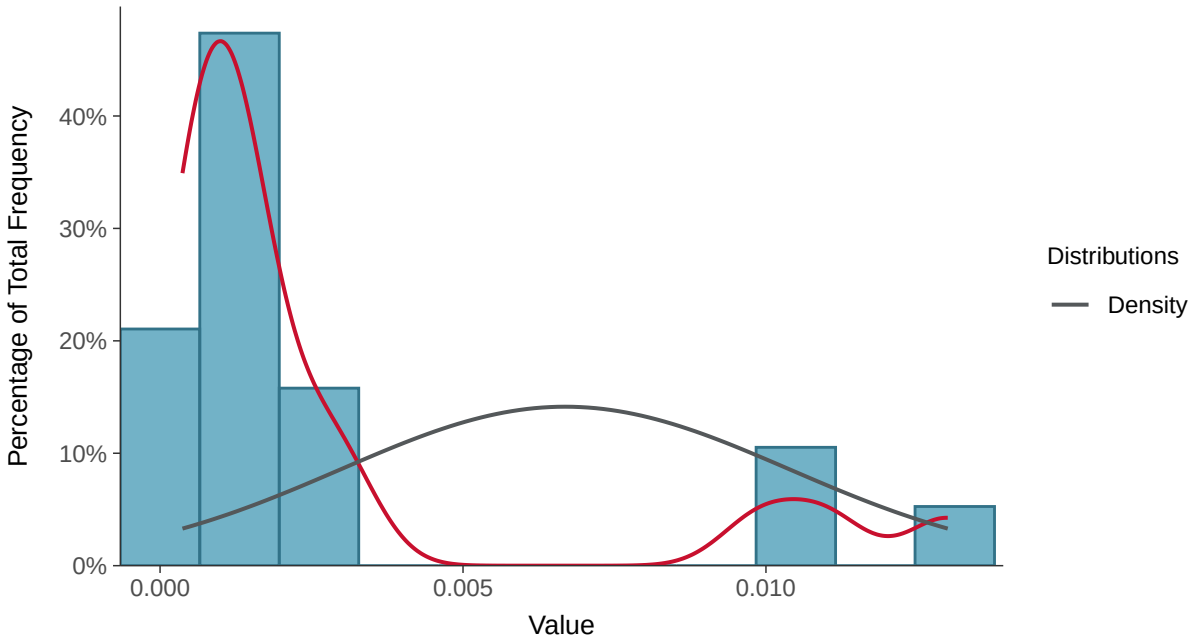
Scatter Plot

Molybdenum, MW-04 (mg/L)



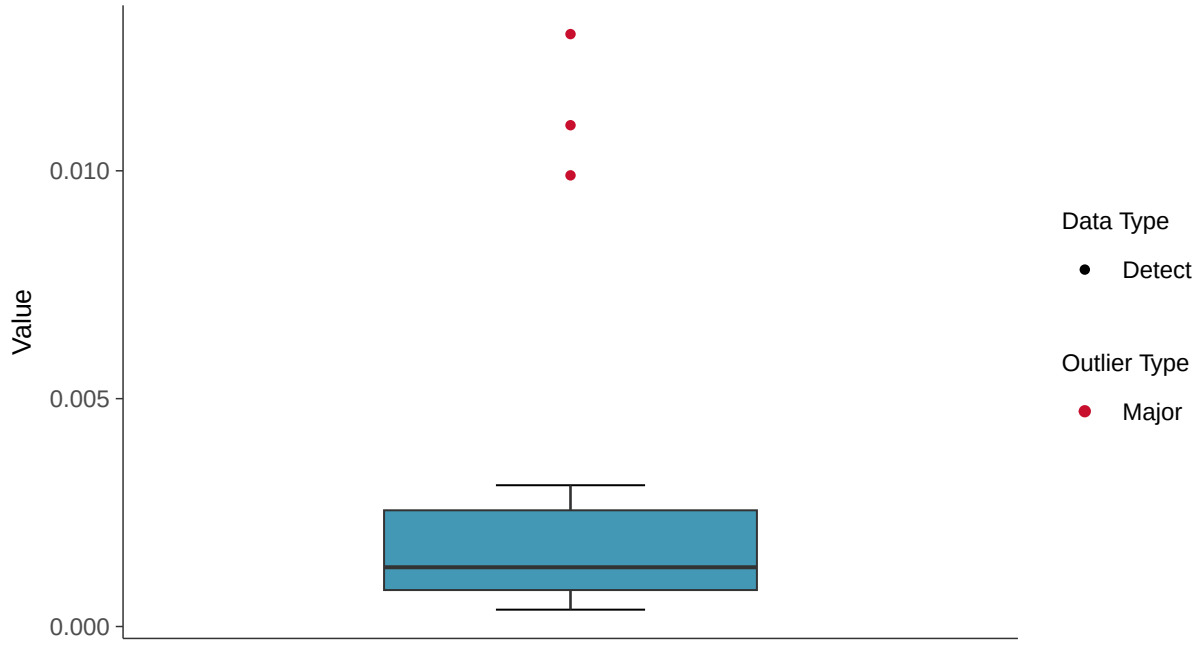
Histogram

Molybdenum, MW-04 (mg/L)



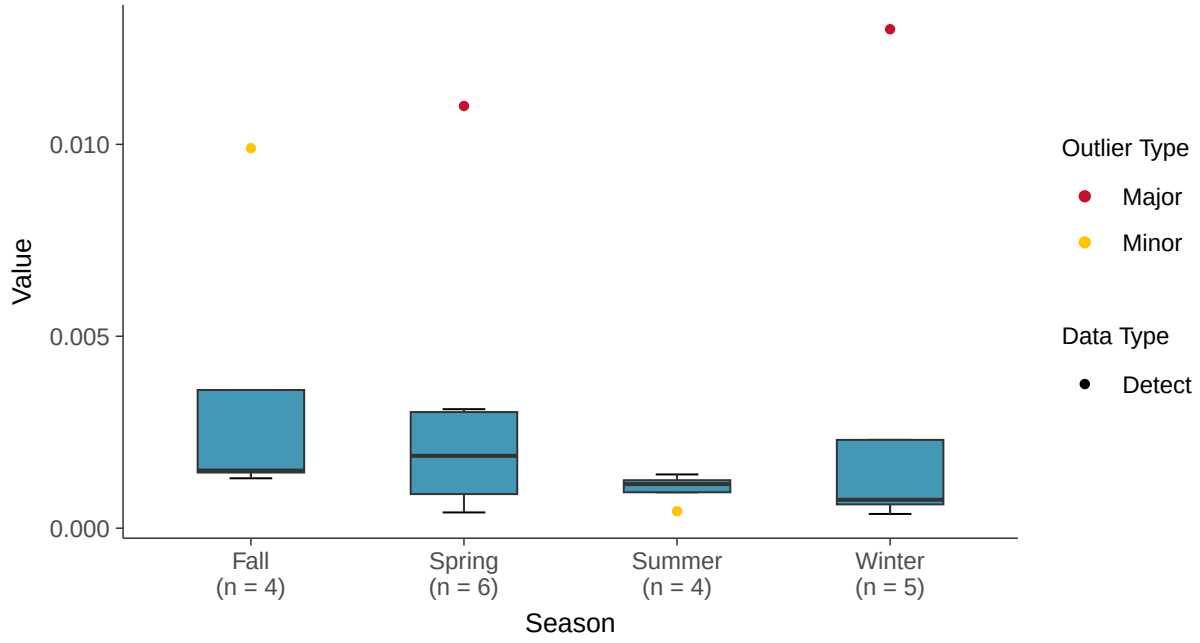
Boxplot

Molybdenum, MW-04 (mg/L)



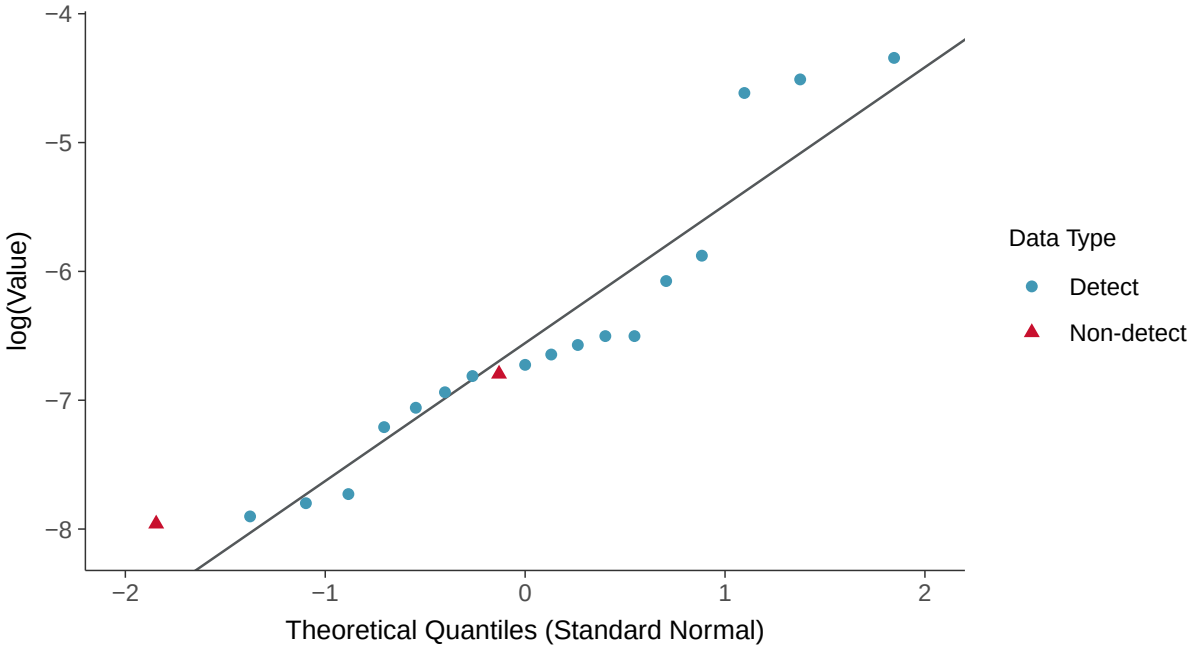
Boxplot by Season

Molybdenum, MW-04 (mg/L)



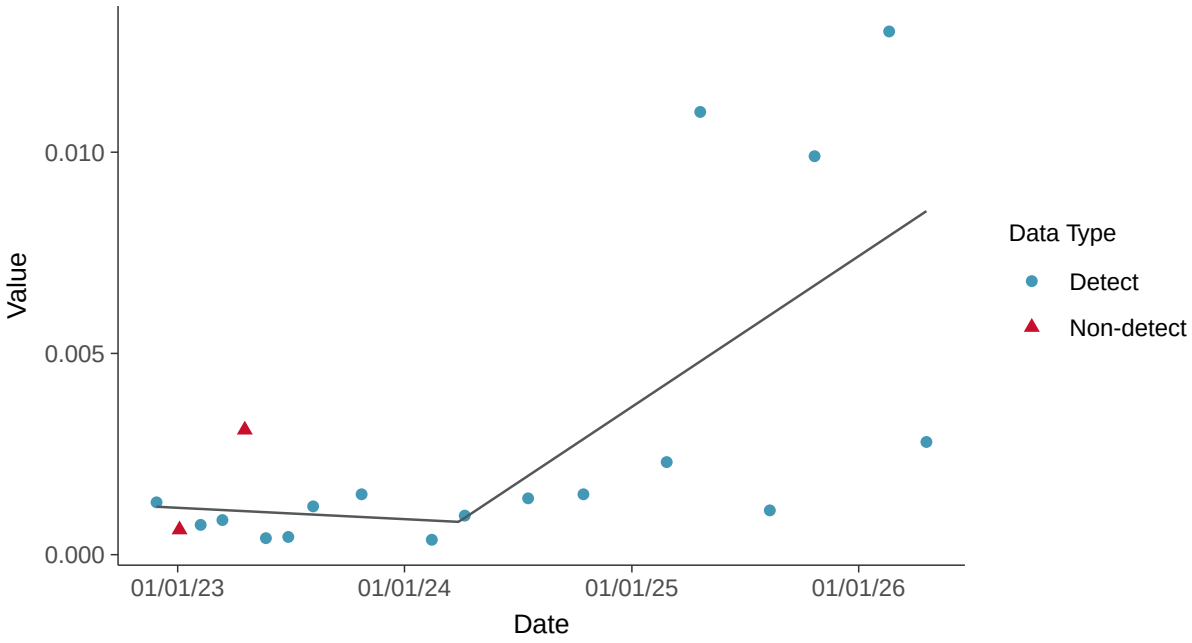
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-04 (mg/L)

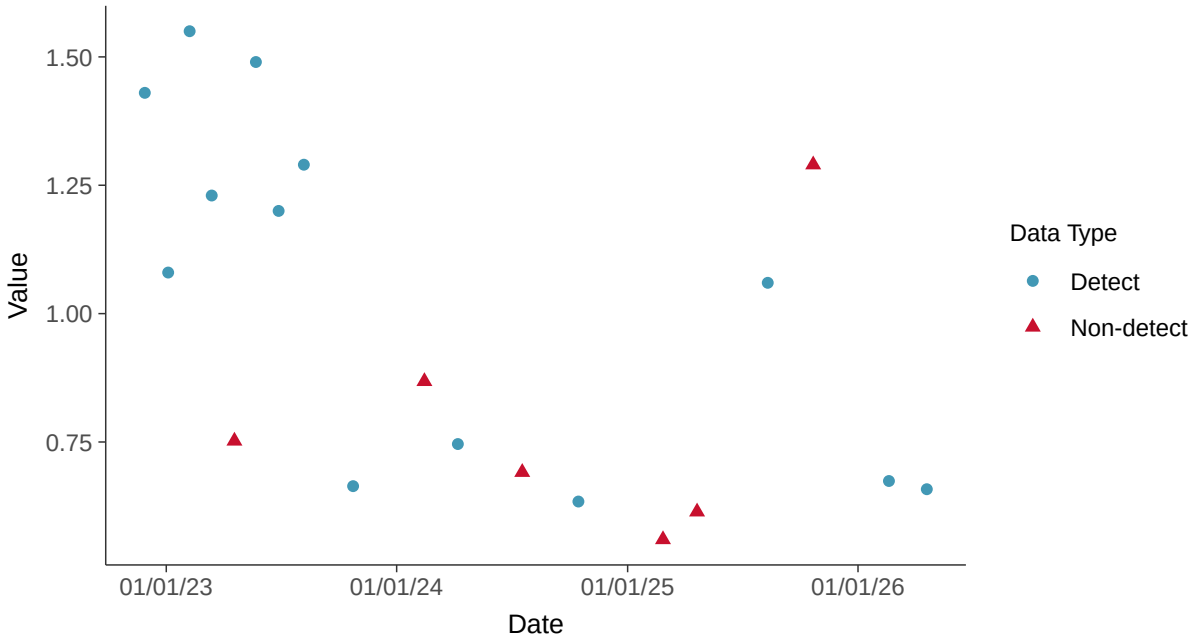


Appendix IV: Radium 226 and 228, MW-04

ID: 14_2_4_121

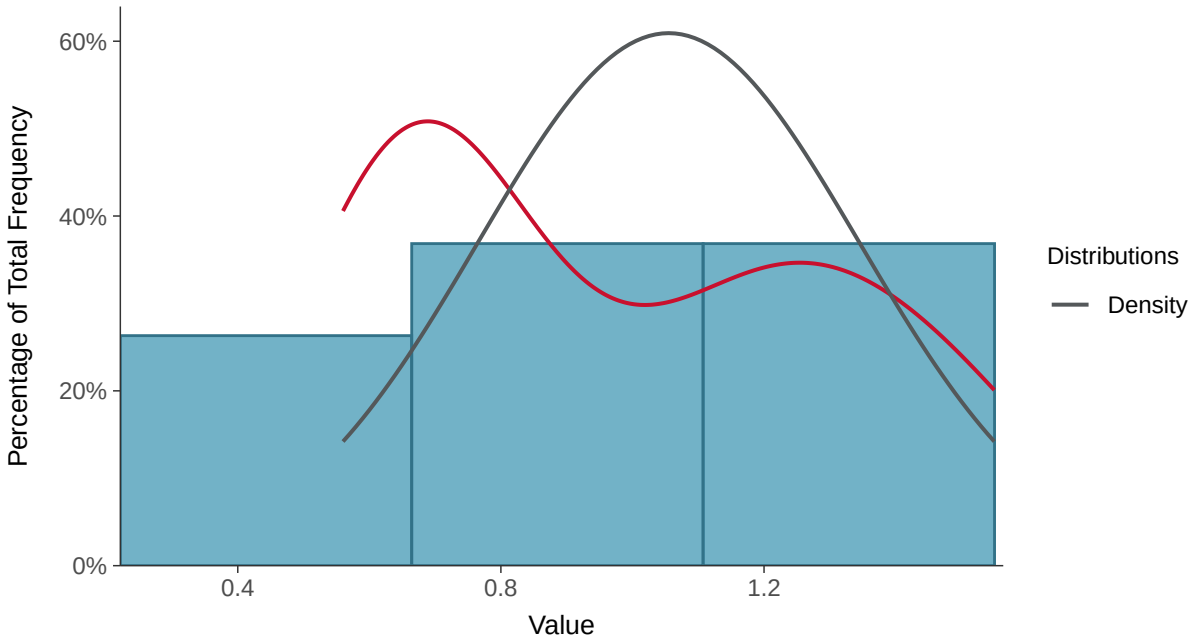
Scatter Plot

Radium 226 and 228, MW-04 (pCi/L)



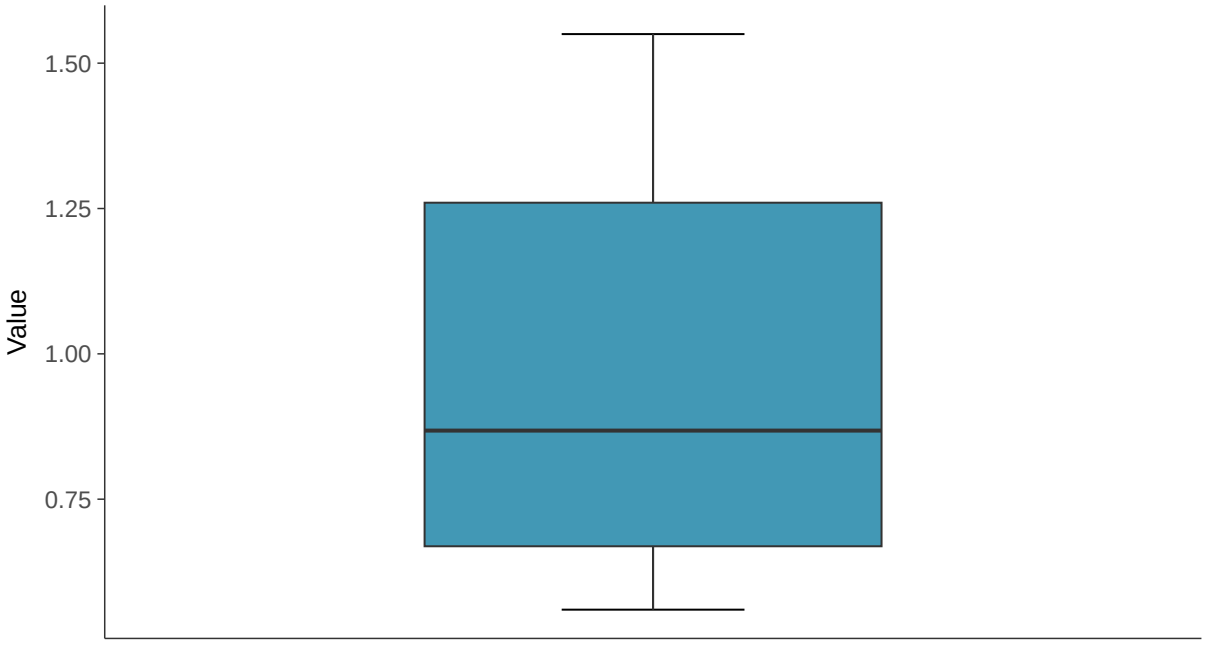
Histogram

Radium 226 and 228, MW-04 (pCi/L)



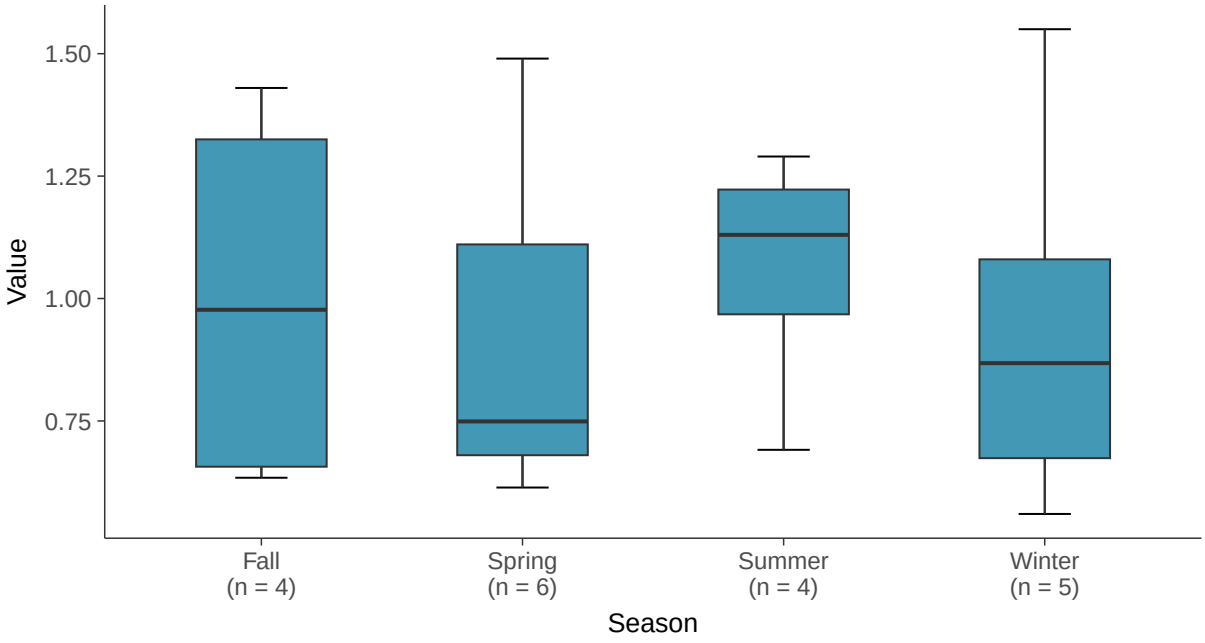
Boxplot

Radium 226 and 228, MW-04 (pCi/L)



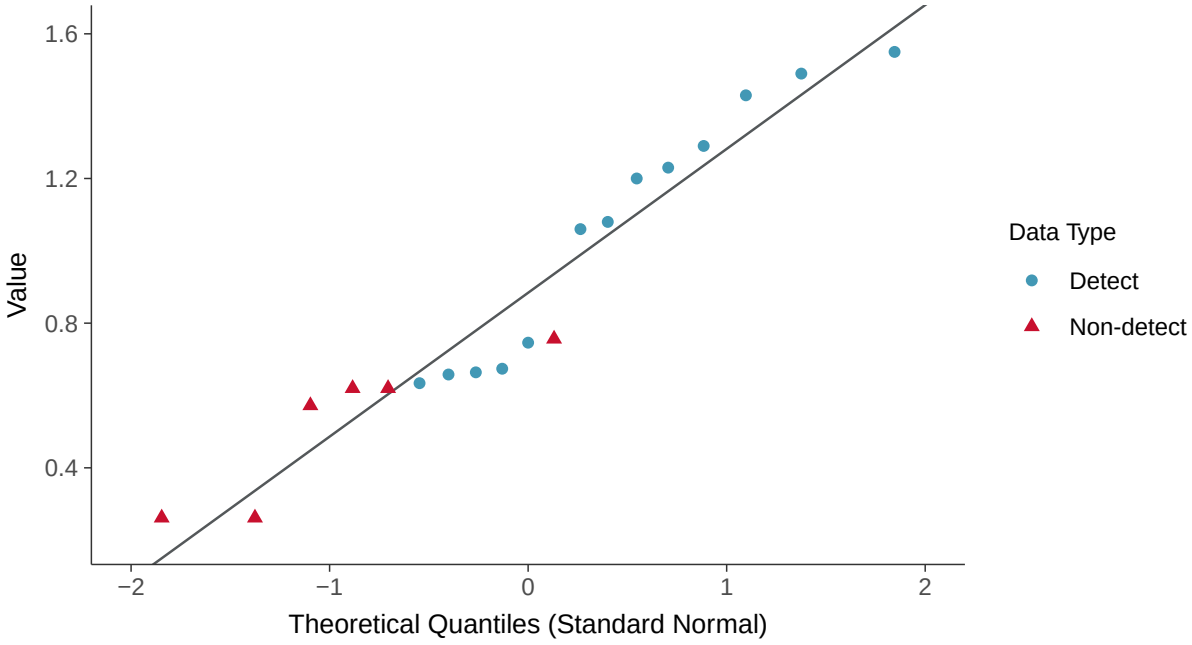
Boxplot by Season

Radium 226 and 228, MW-04 (pCi/L)



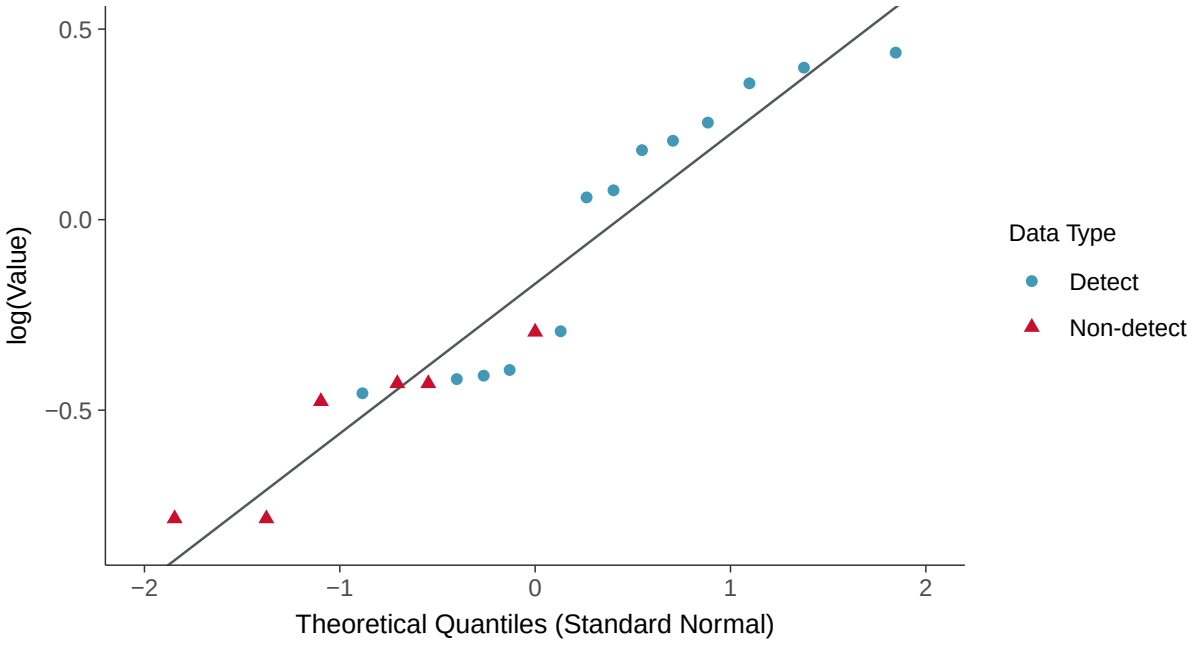
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



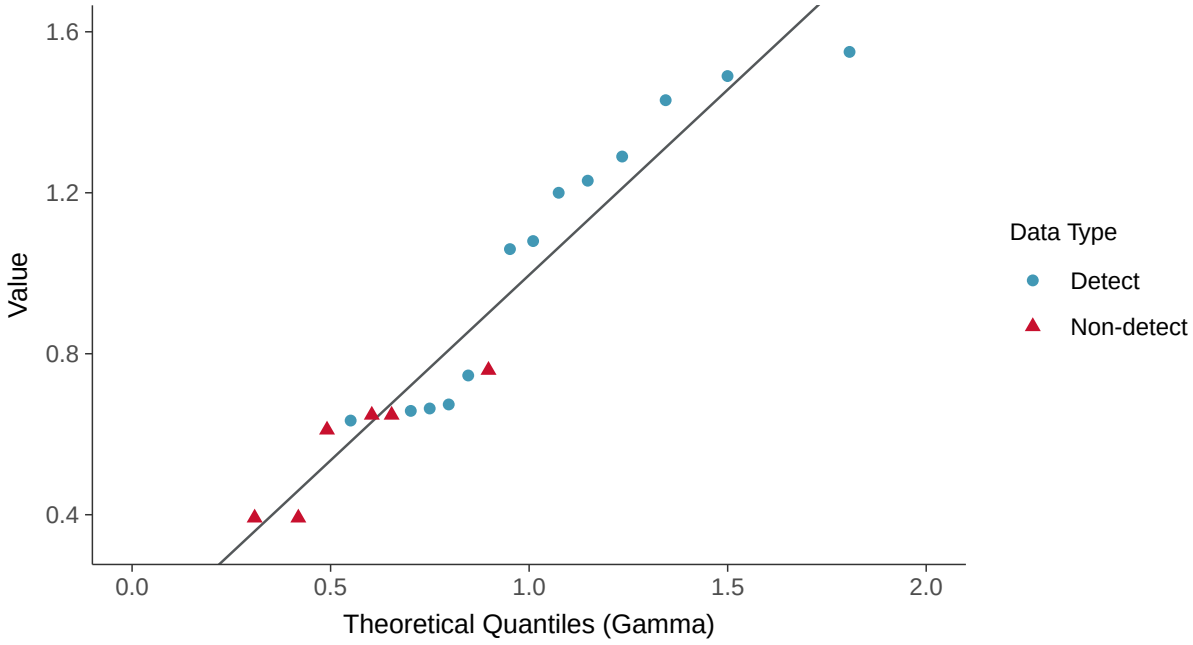
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



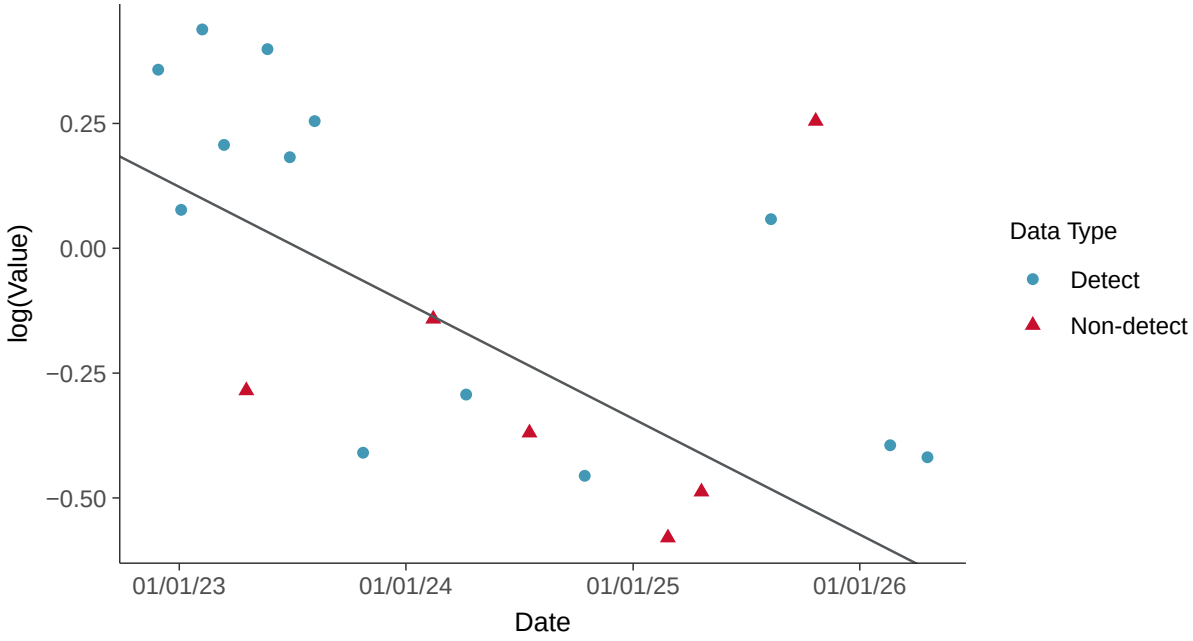
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-04 (pCi/L)



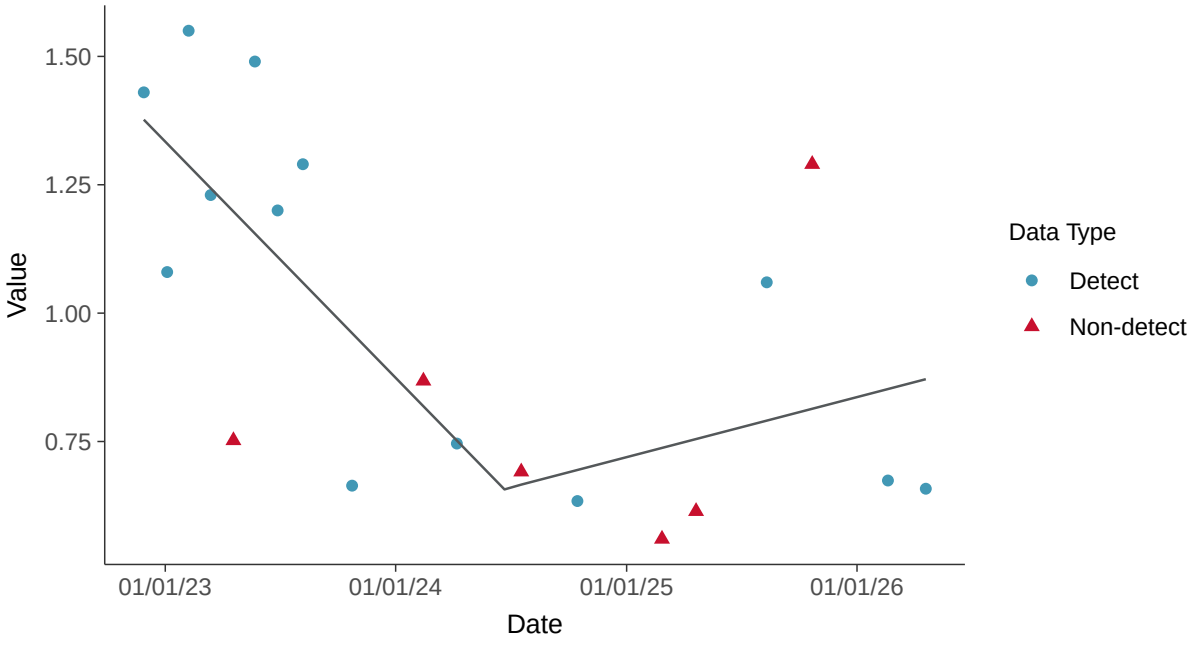
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-04 (pCi/L)



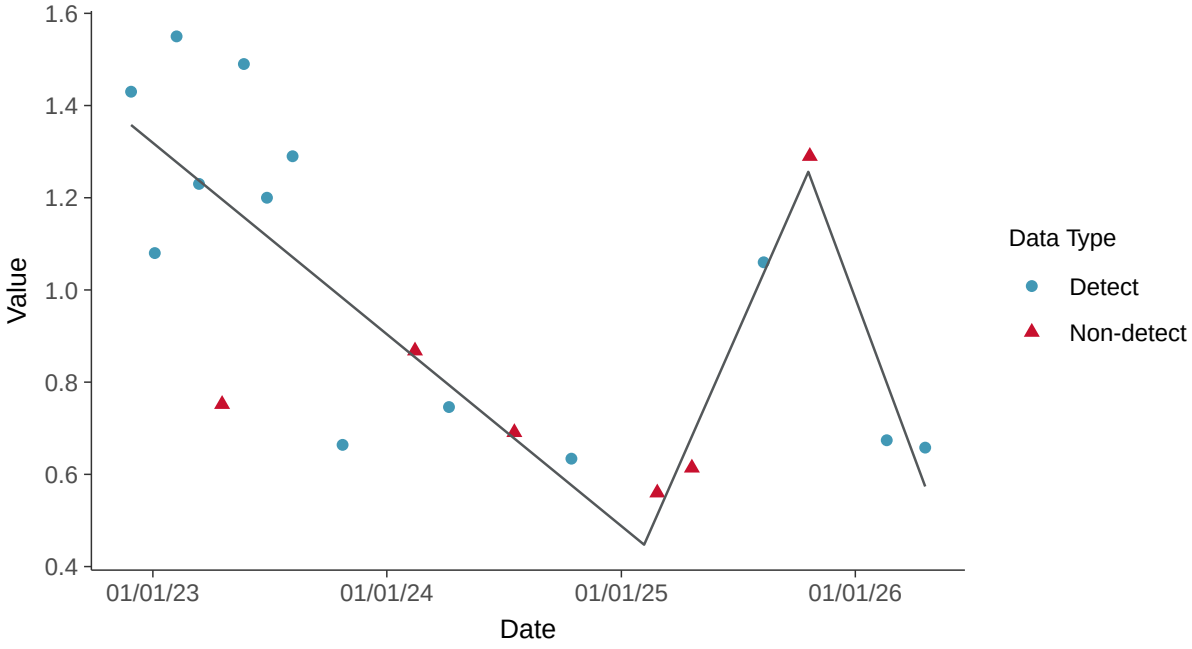
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-04 (pCi/L)



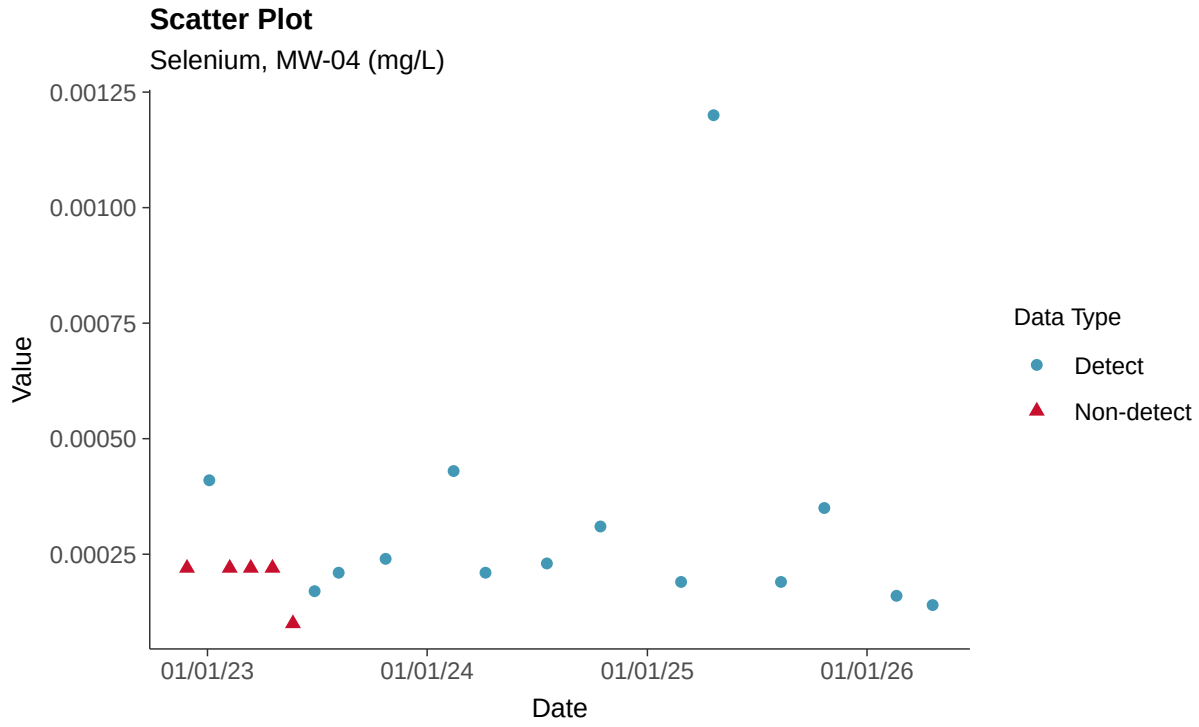
Trend Regression: Piecewise Linear-Linear-Linear

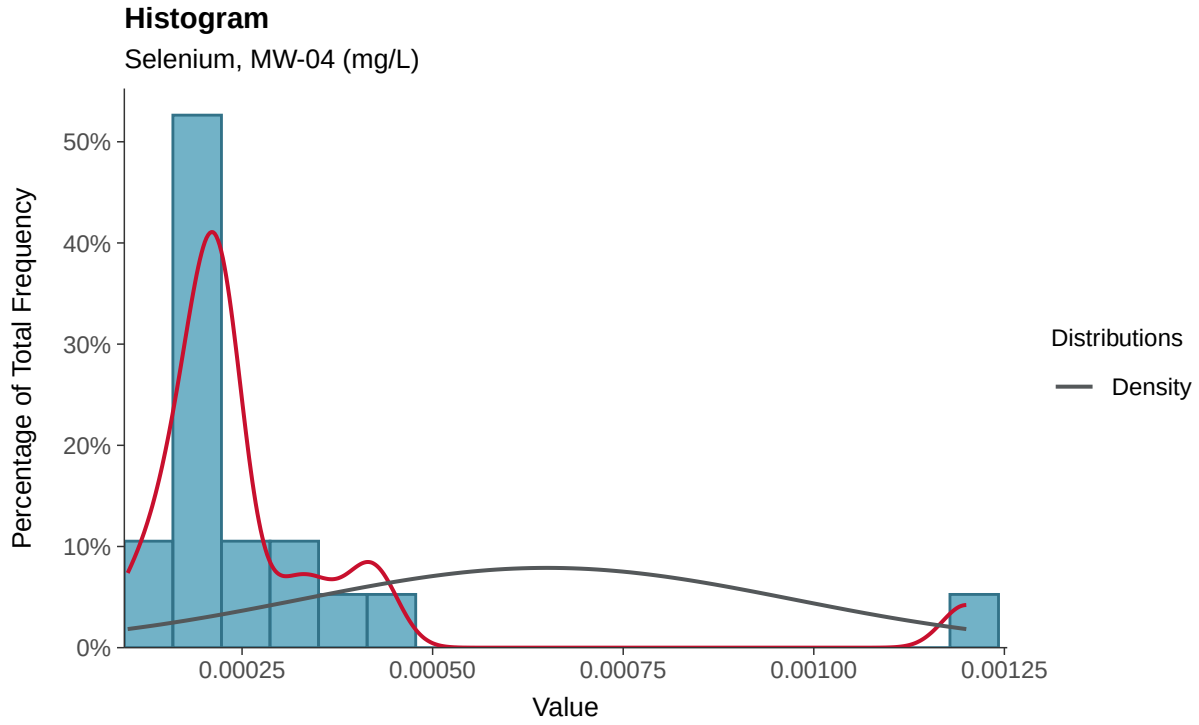
Radium 226 and 228, MW-04 (pCi/L)



Appendix IV: Selenium, MW-04

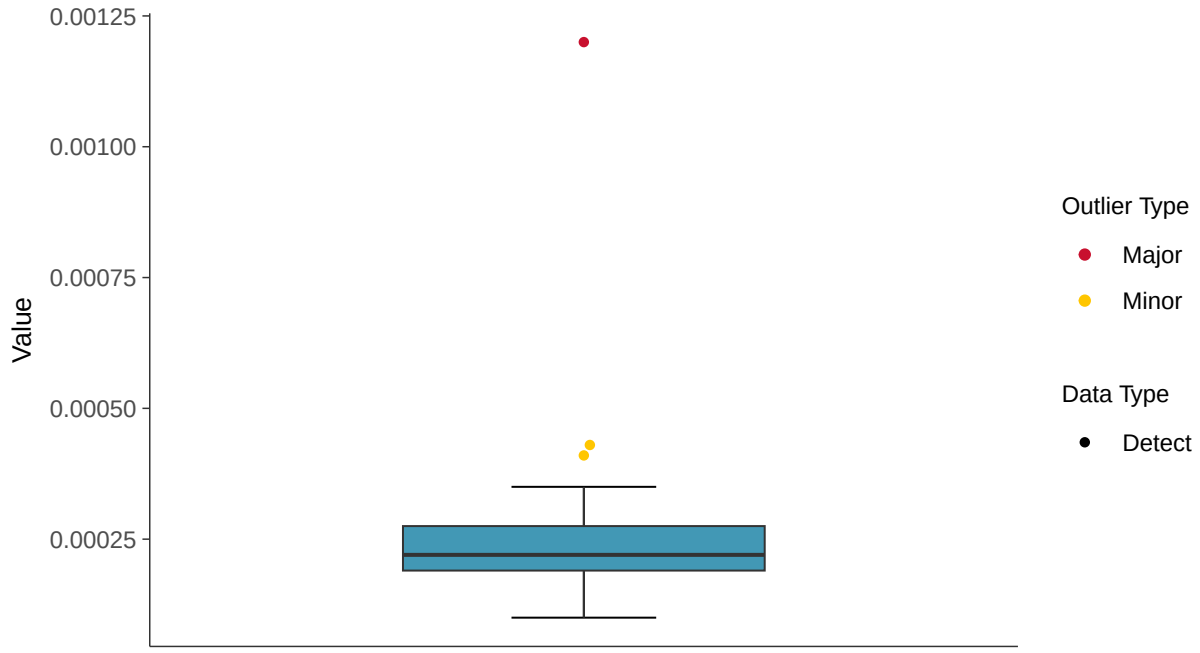
ID: 14_2_4_122





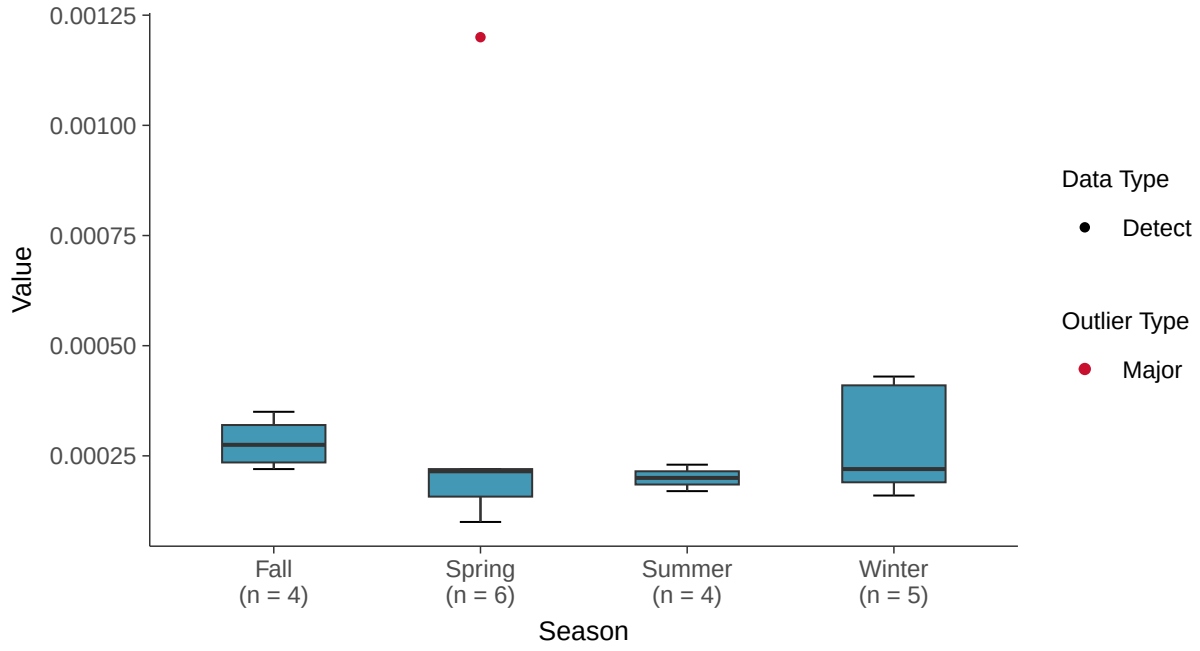
Boxplot

Selenium, MW-04 (mg/L)



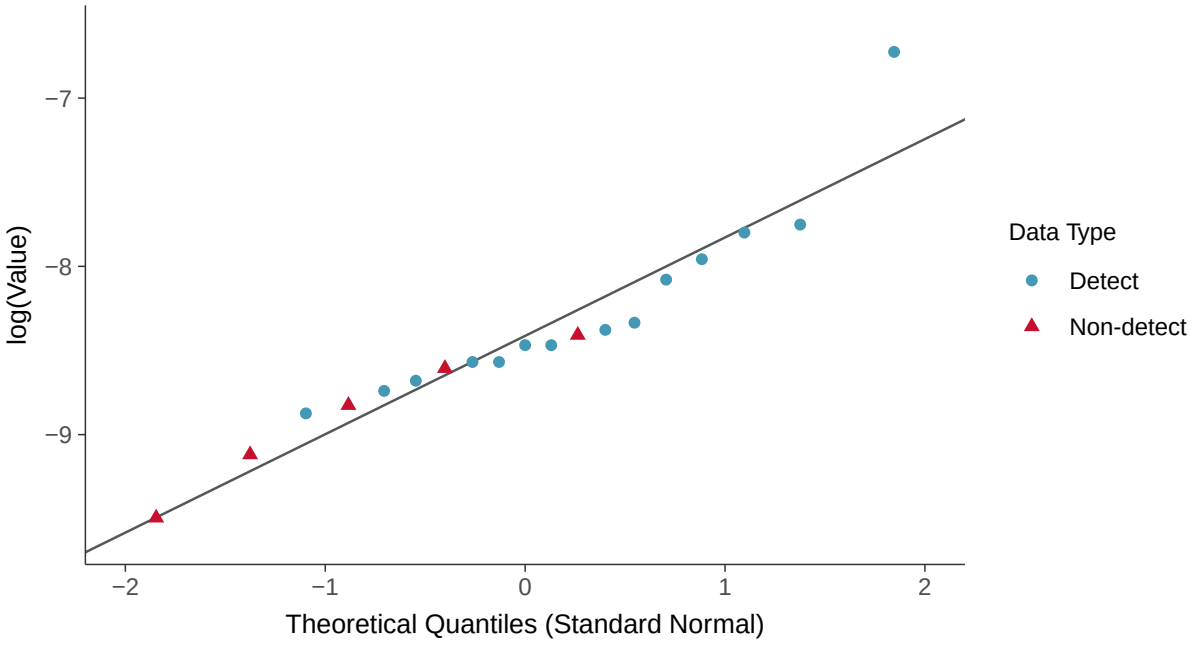
Boxplot by Season

Selenium, MW-04 (mg/L)



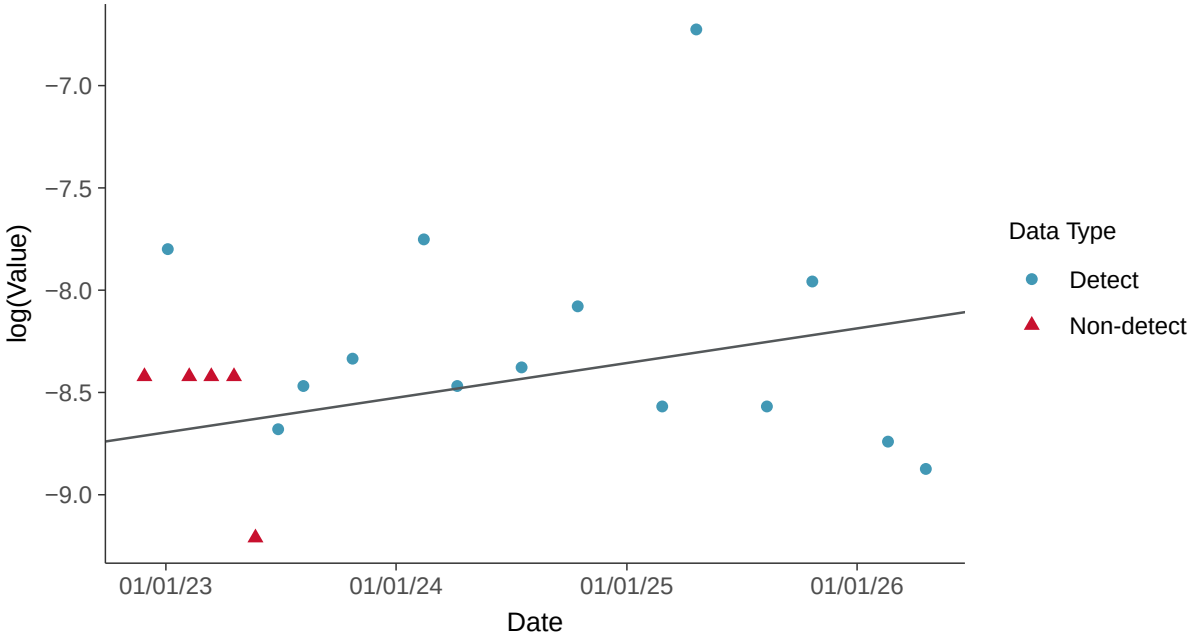
Lognormal Q-Q plot using ROS Imputed Estimates

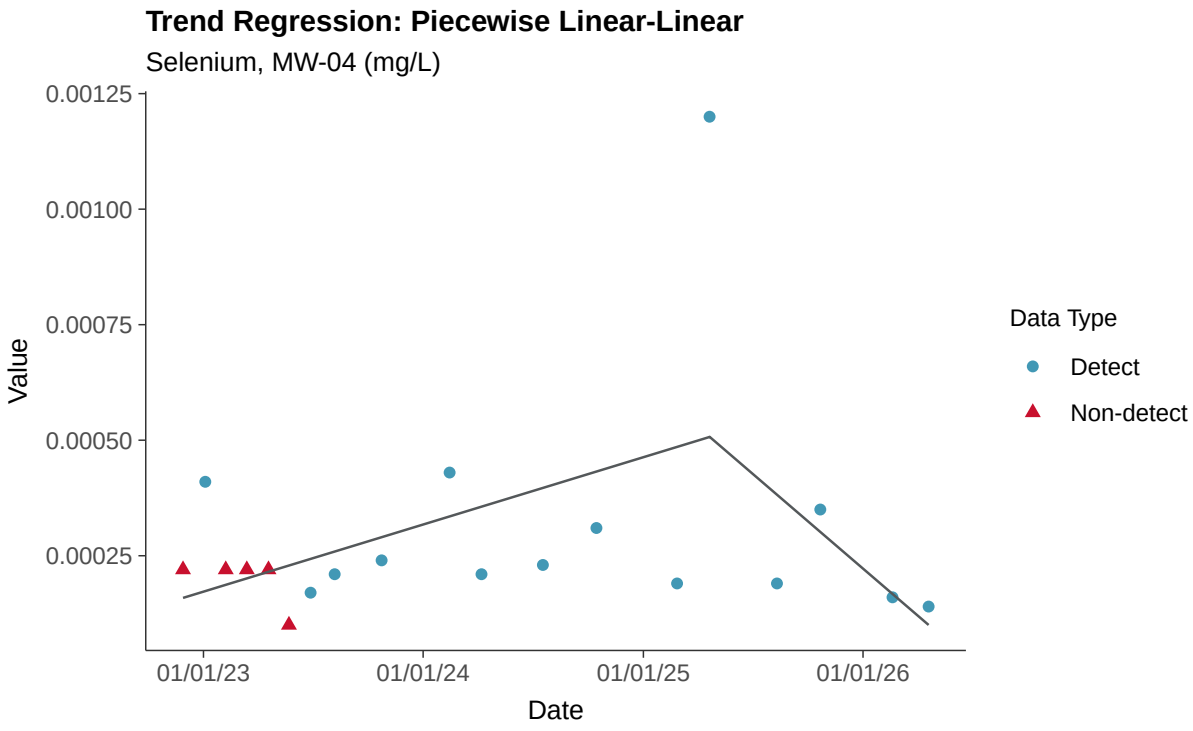
Selenium, MW-04 (mg/L)



Trend Regression: Lognormal MLE

Selenium, MW-04 (mg/L)



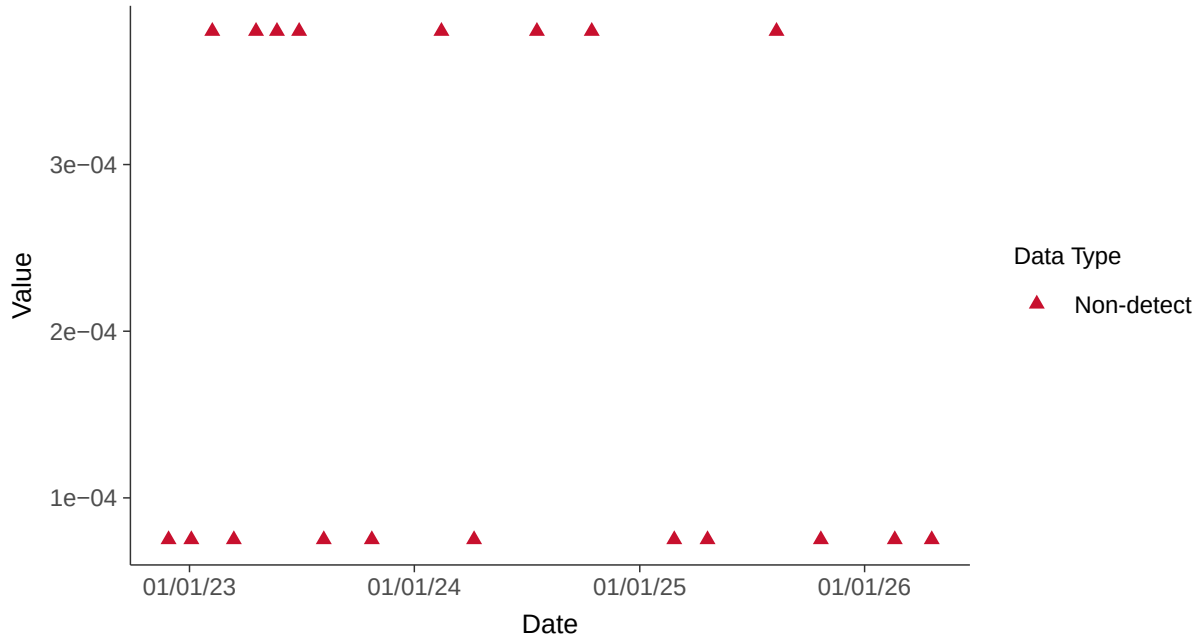

Trend Regression: Piecewise Linear-Linear
Selenium, MW-04 (mg/L)
0.00125
0.00100
0.00075
0.00050
0.00025
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Thallium, MW-04

ID: 14_2_4_125

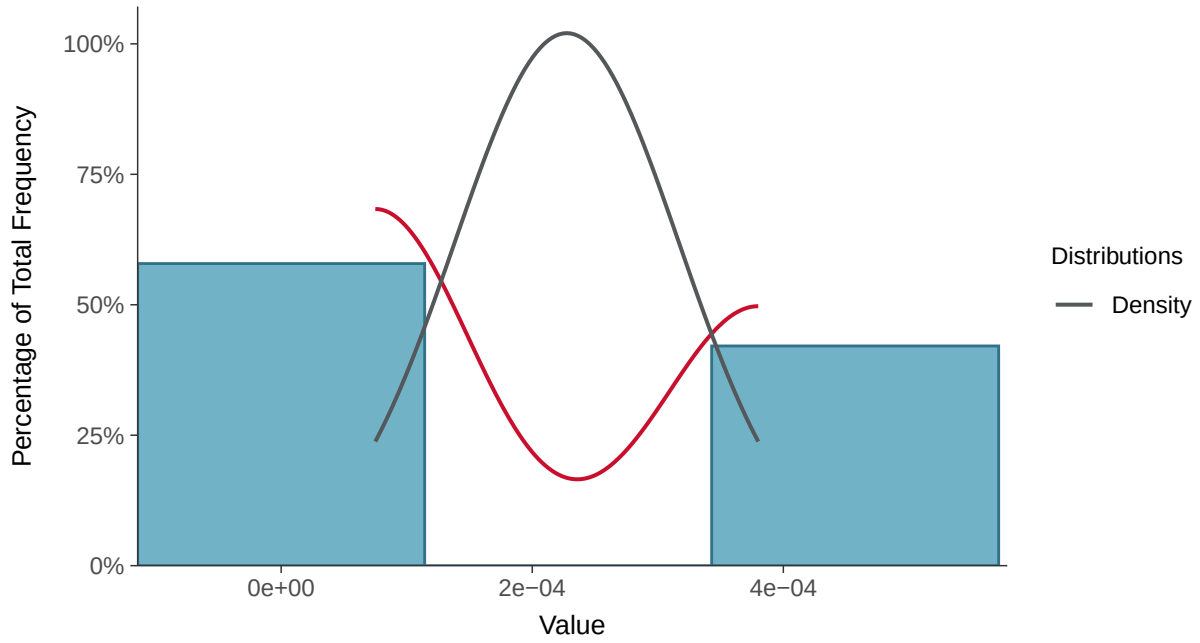
Scatter Plot

Thallium, MW-04 (mg/L)



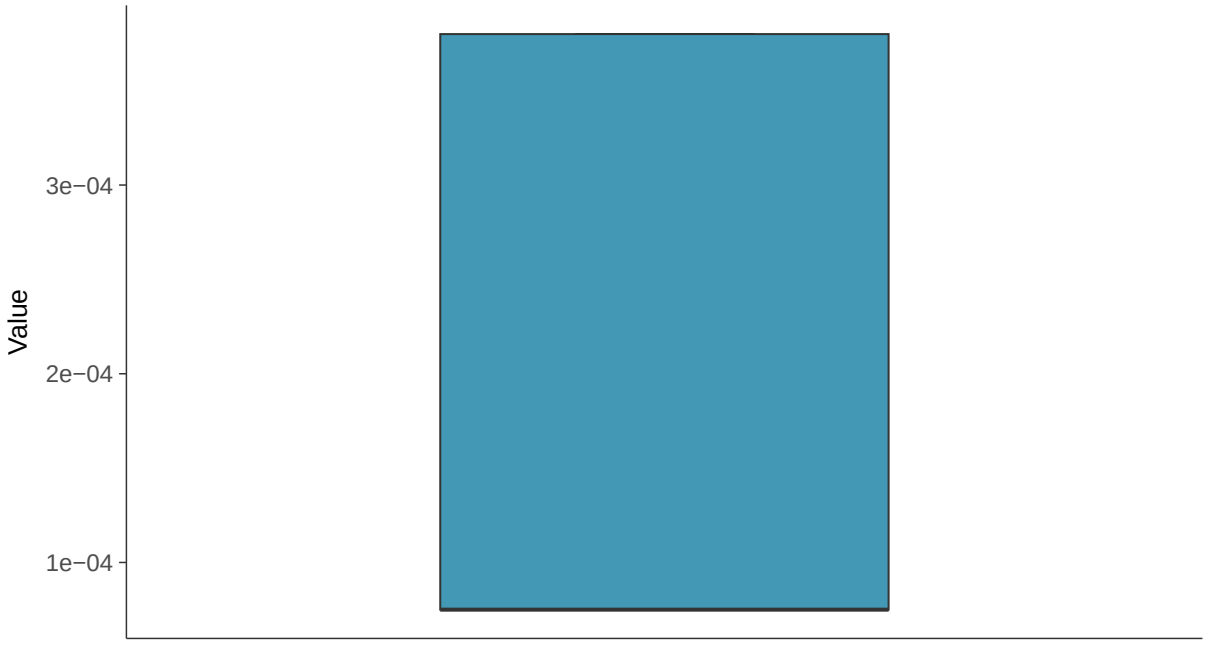
Histogram

Thallium, MW-04 (mg/L)



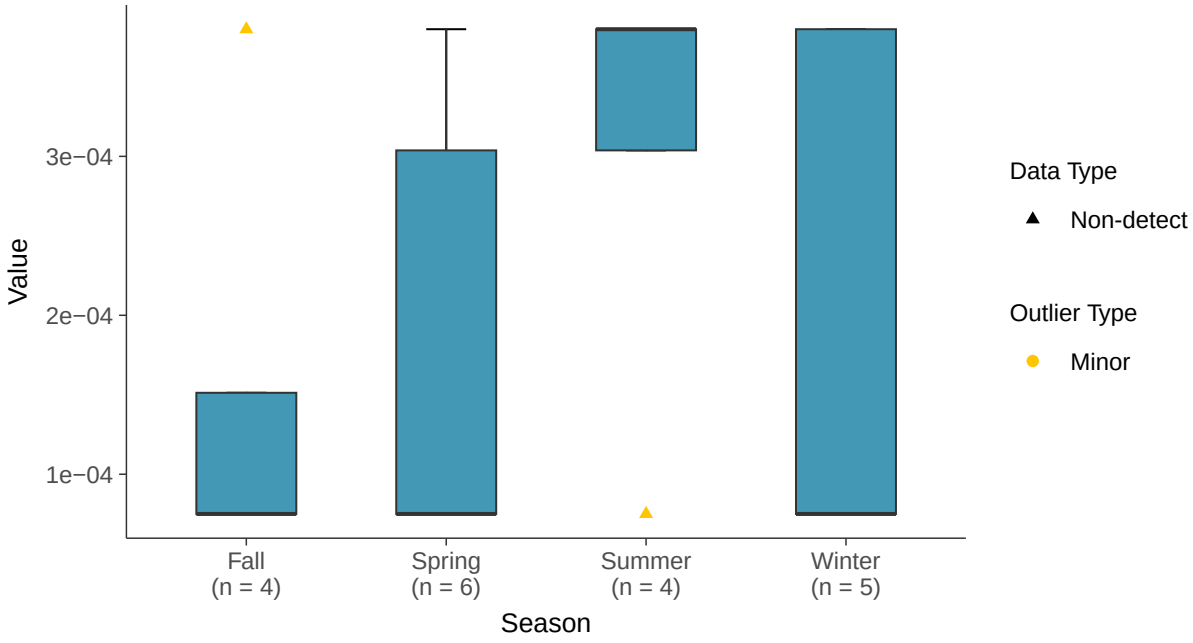
Boxplot

Thallium, MW-04 (mg/L)



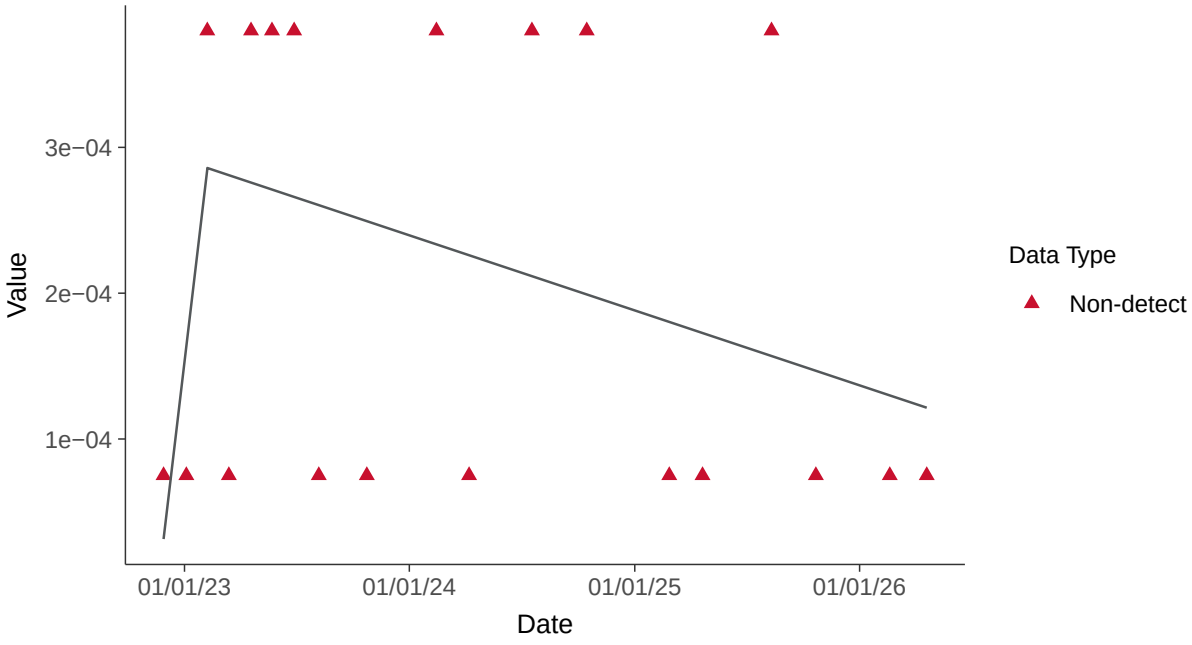
Boxplot by Season

Thallium, MW-04 (mg/L)



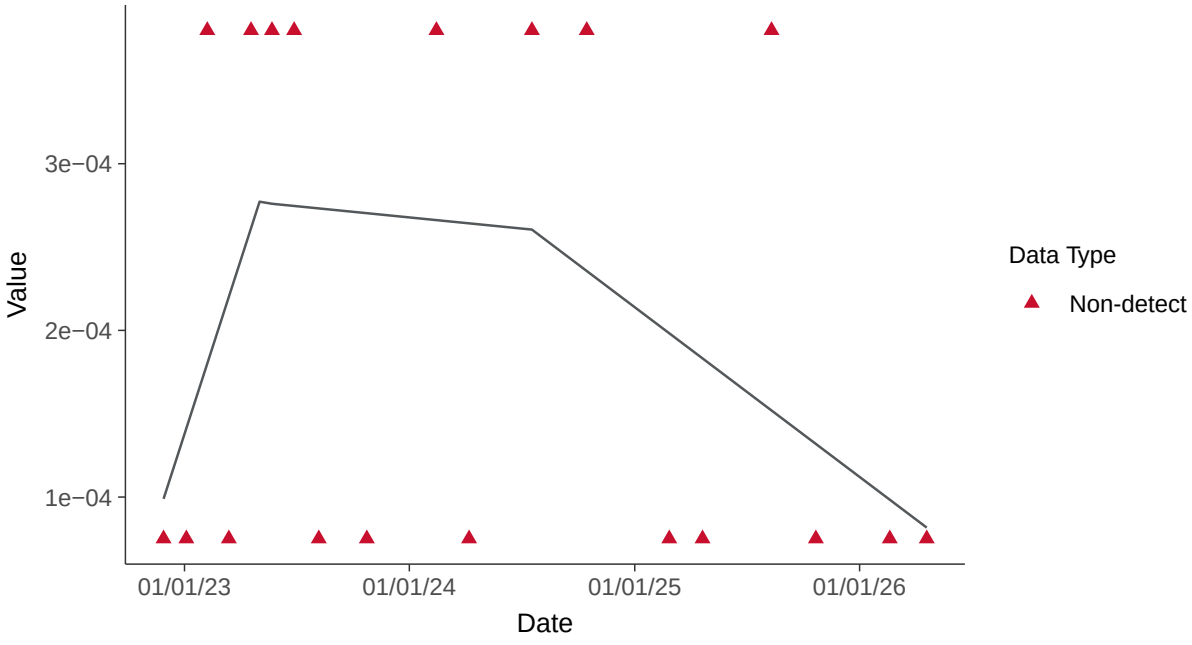
Trend Regression: Piecewise Linear-Linear

Thallium, MW-04 (mg/L)



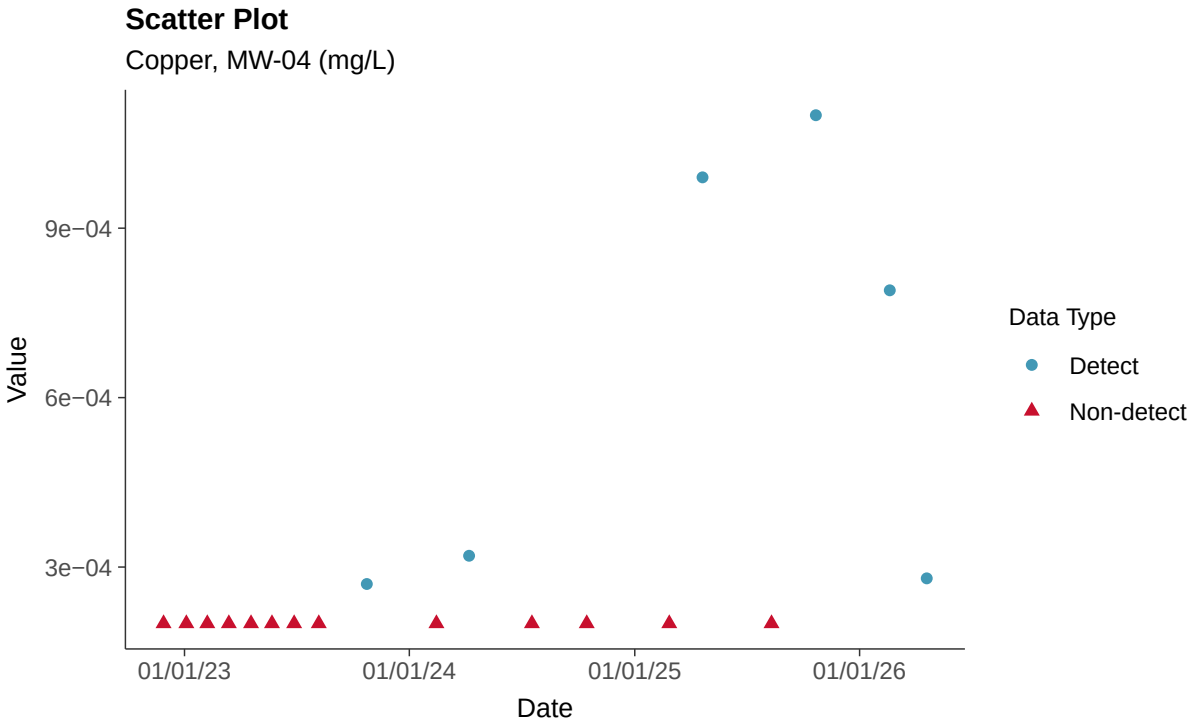
Trend Regression: Piecewise Linear-Linear-Linear

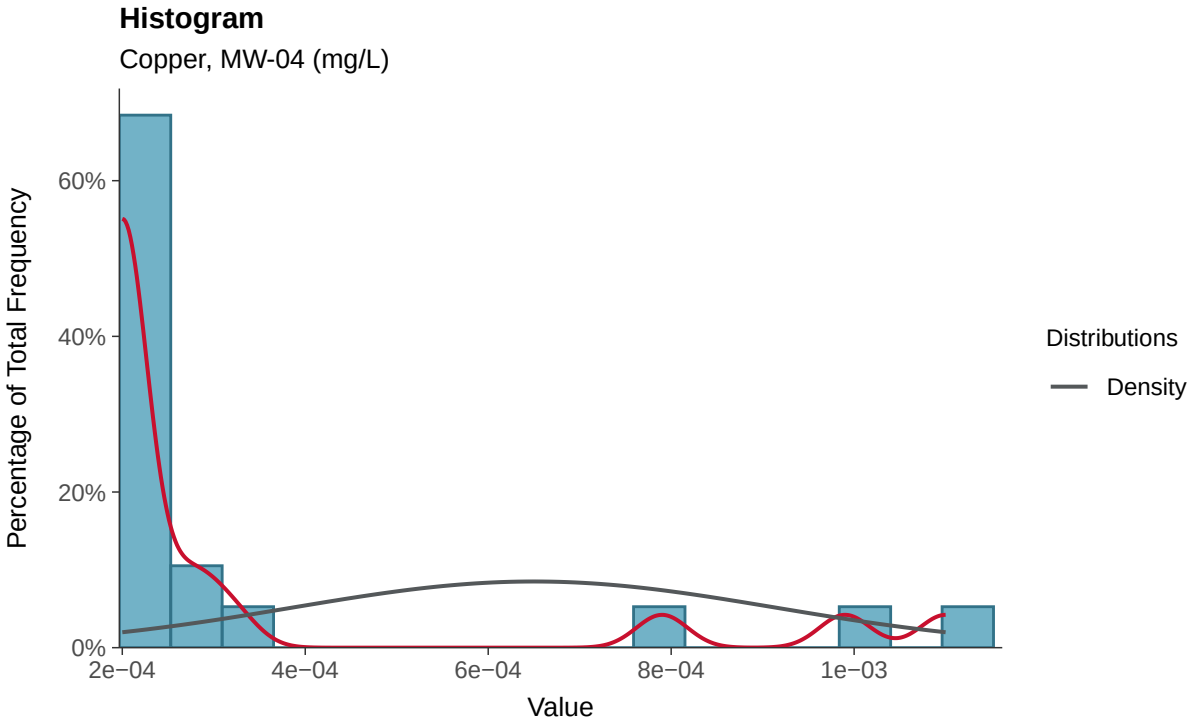
Thallium, MW-04 (mg/L)



Part 115: Copper, MW-04

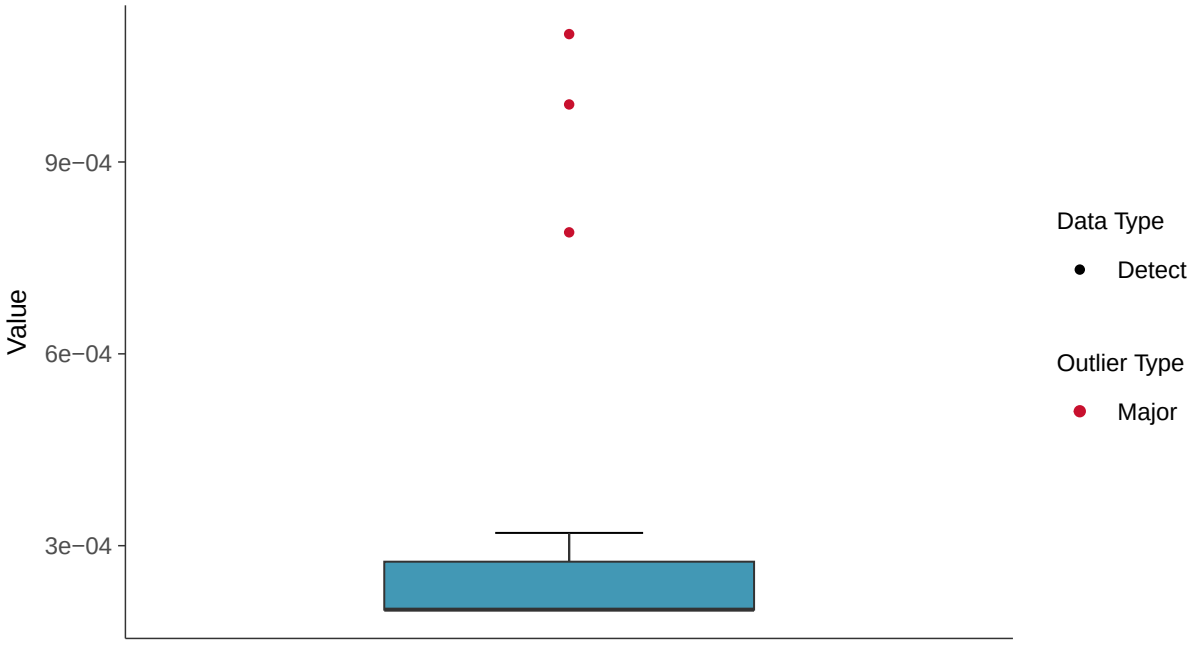
ID: 14_2_5_111





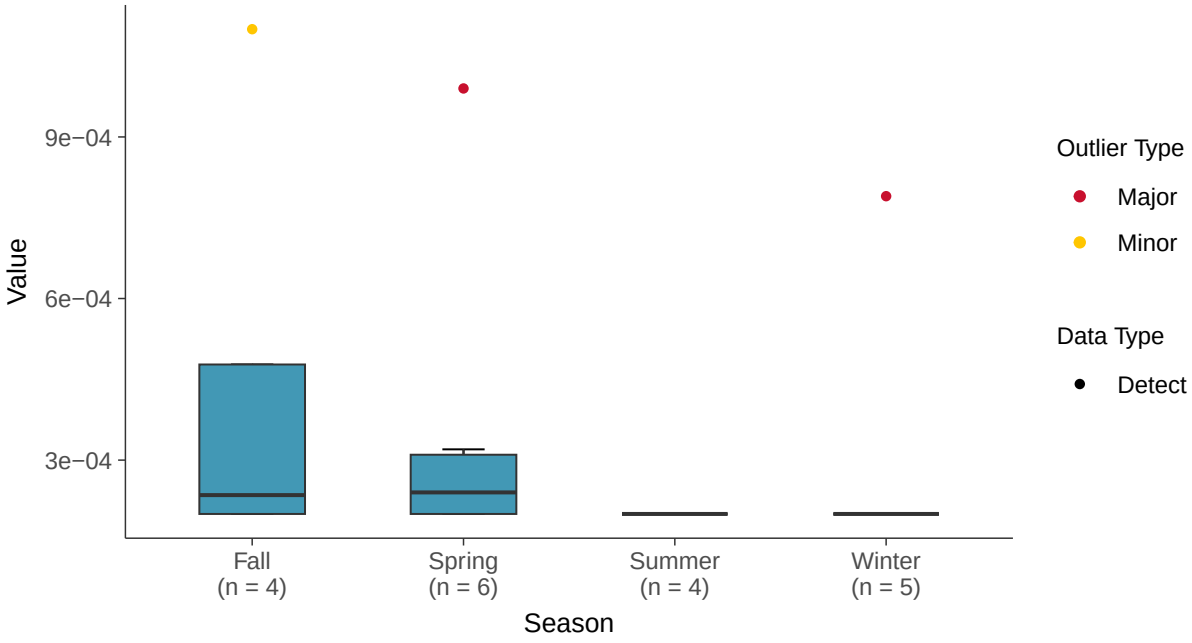
Boxplot

Copper, MW-04 (mg/L)



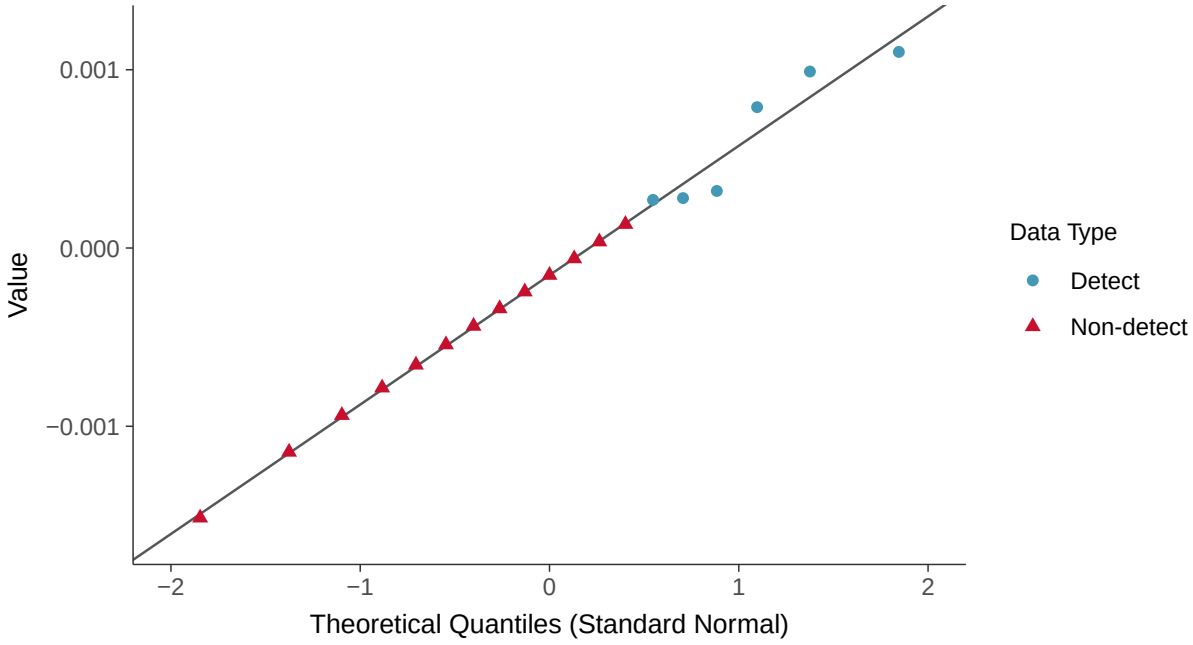
Boxplot by Season

Copper, MW-04 (mg/L)



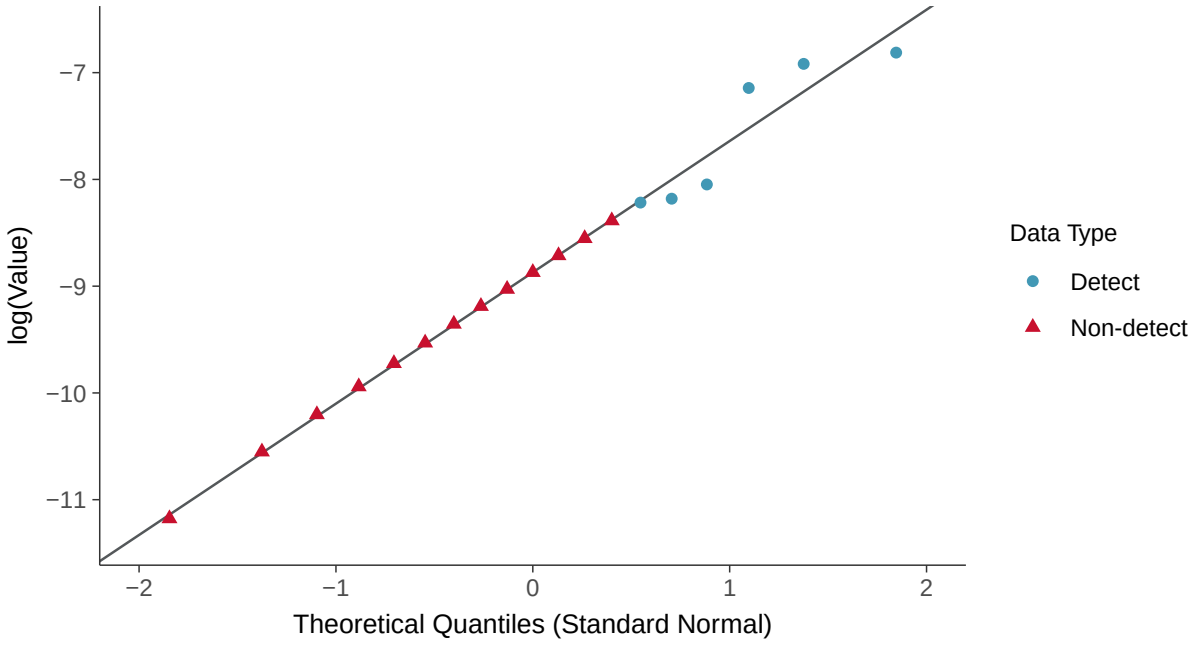
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-04 (mg/L)



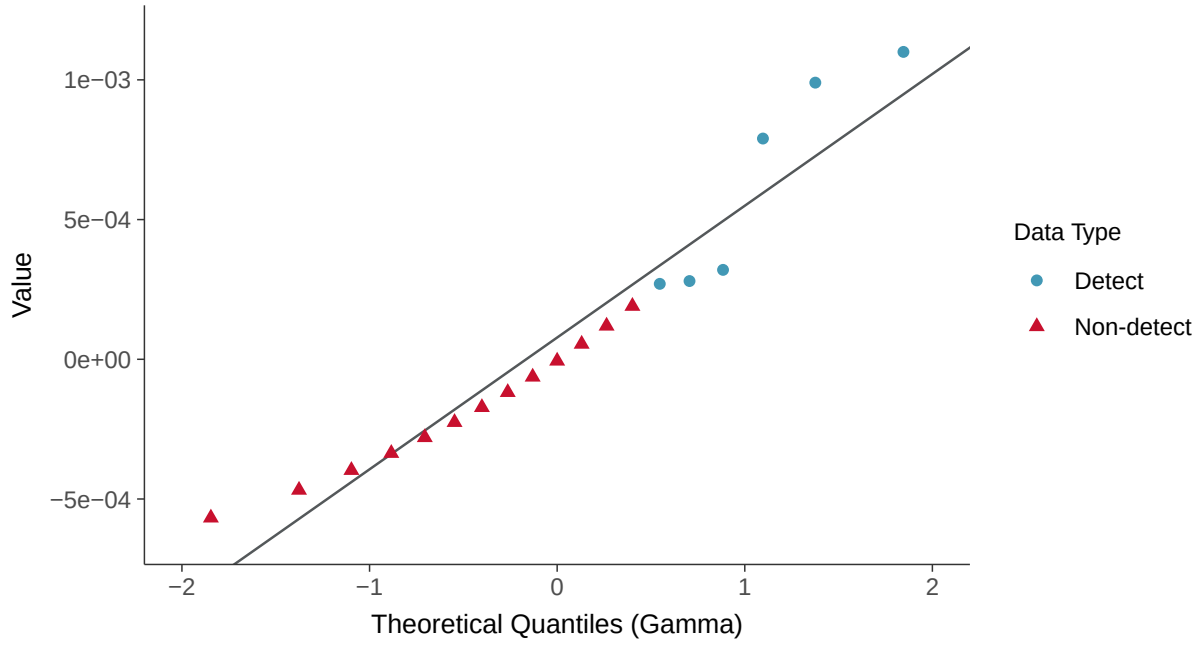
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-04 (mg/L)



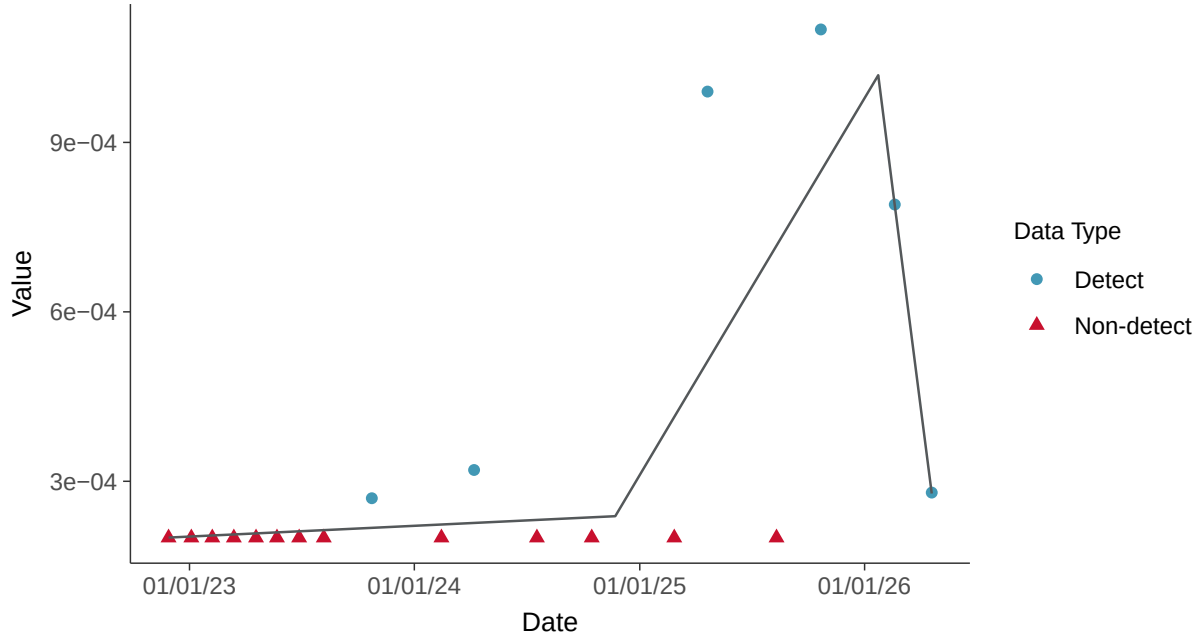
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-04 (mg/L)



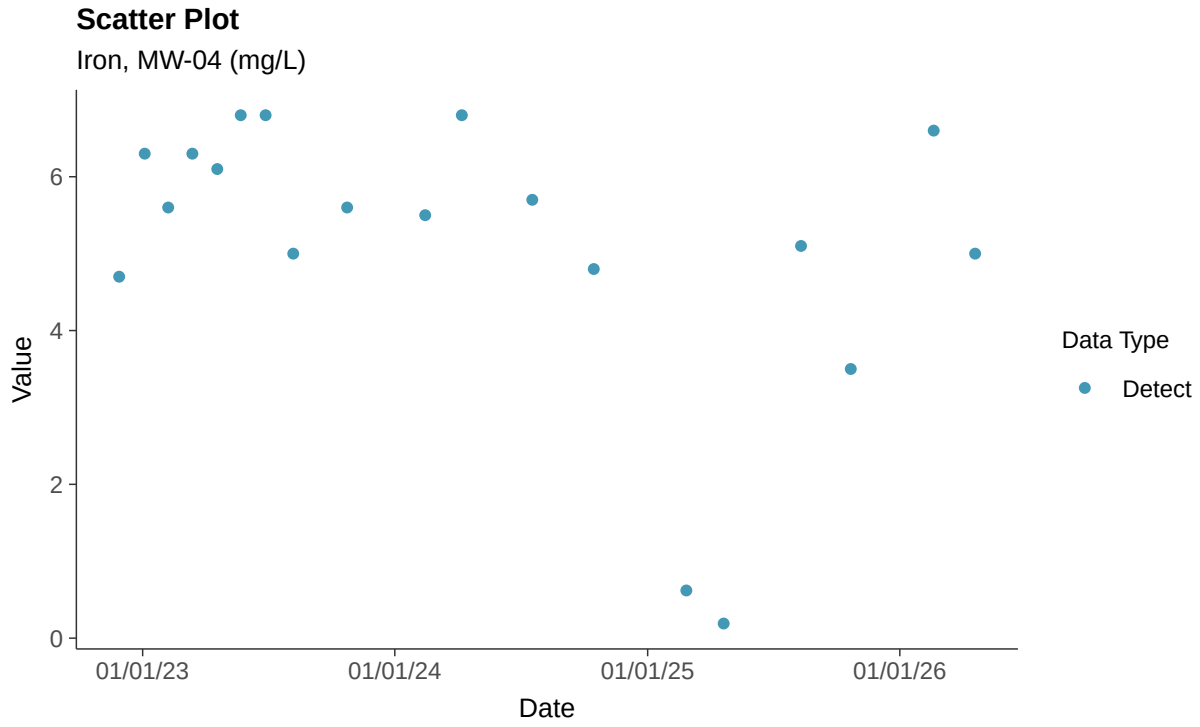
Trend Regression: Piecewise Linear-Linear-Linear

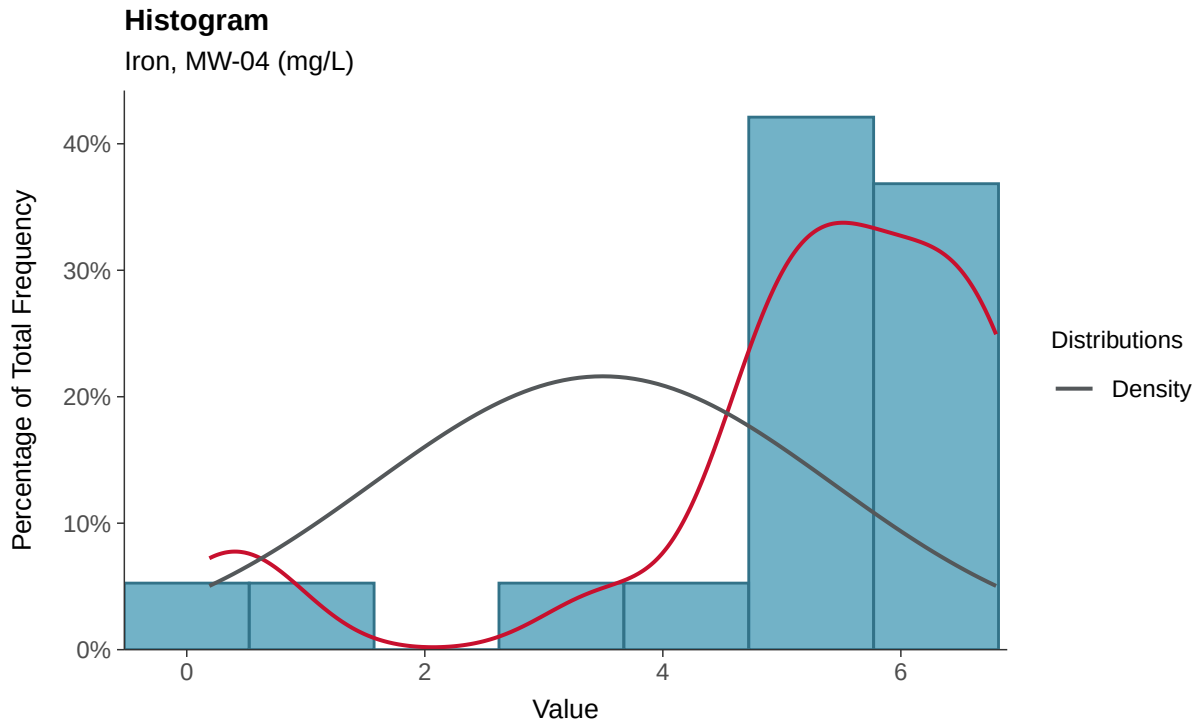
Copper, MW-04 (mg/L)



Part 115: Iron, MW-04

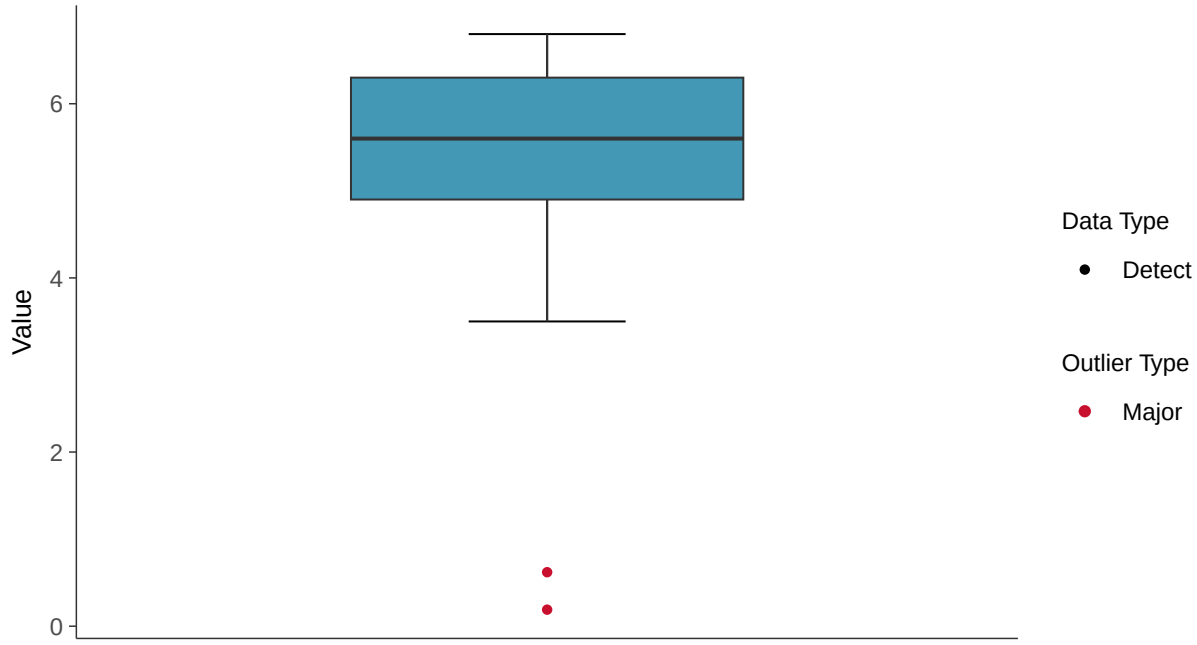
ID: 14_2_5_114





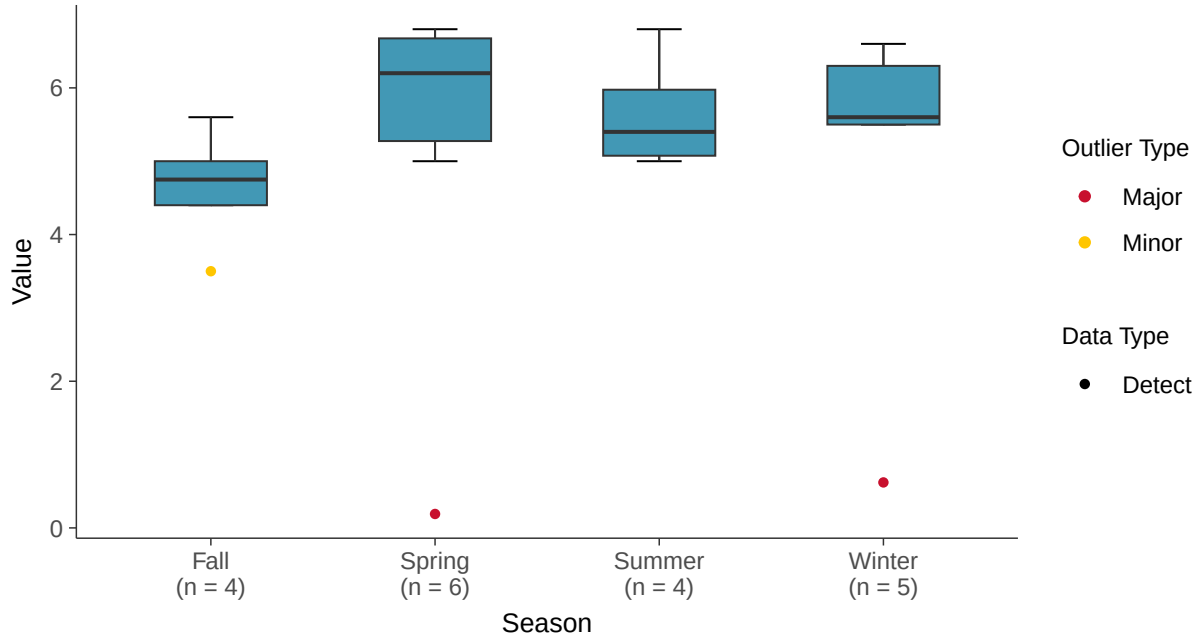
Boxplot

Iron, MW-04 (mg/L)



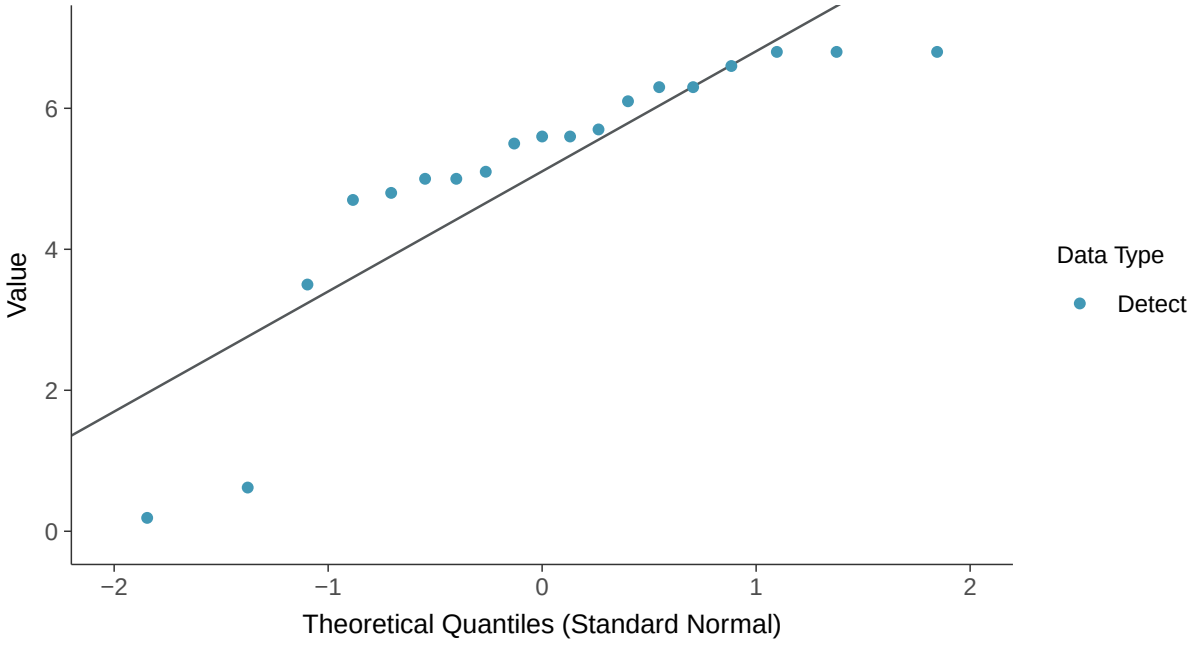
Boxplot by Season

Iron, MW-04 (mg/L)



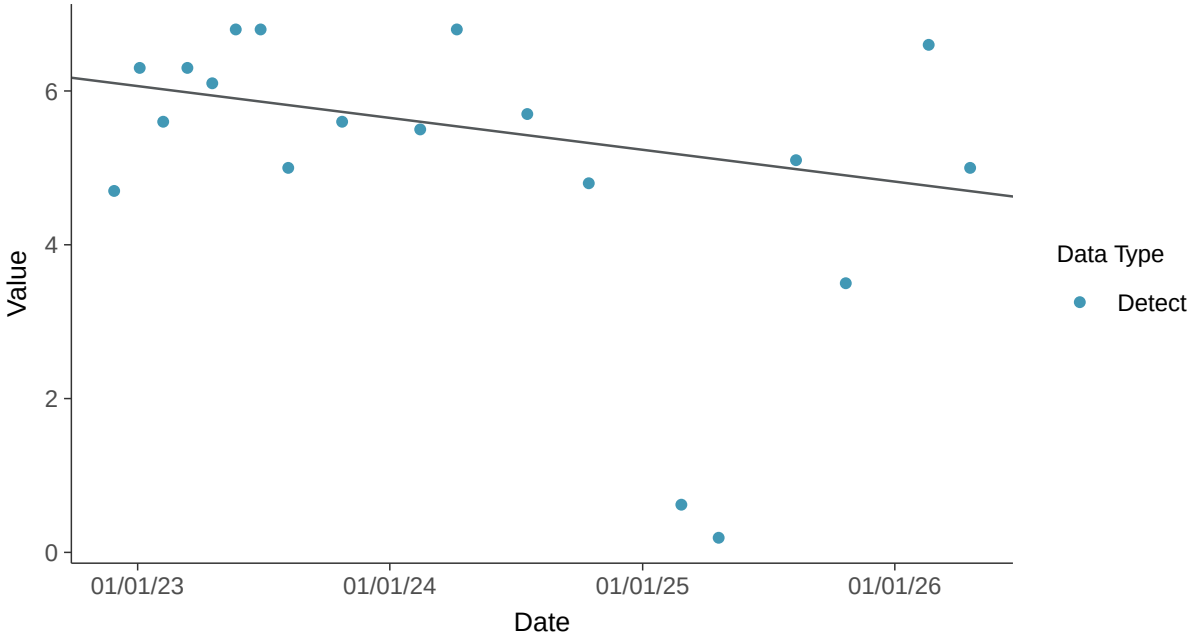
Normal Q-Q plot

Iron, MW-04 (mg/L)



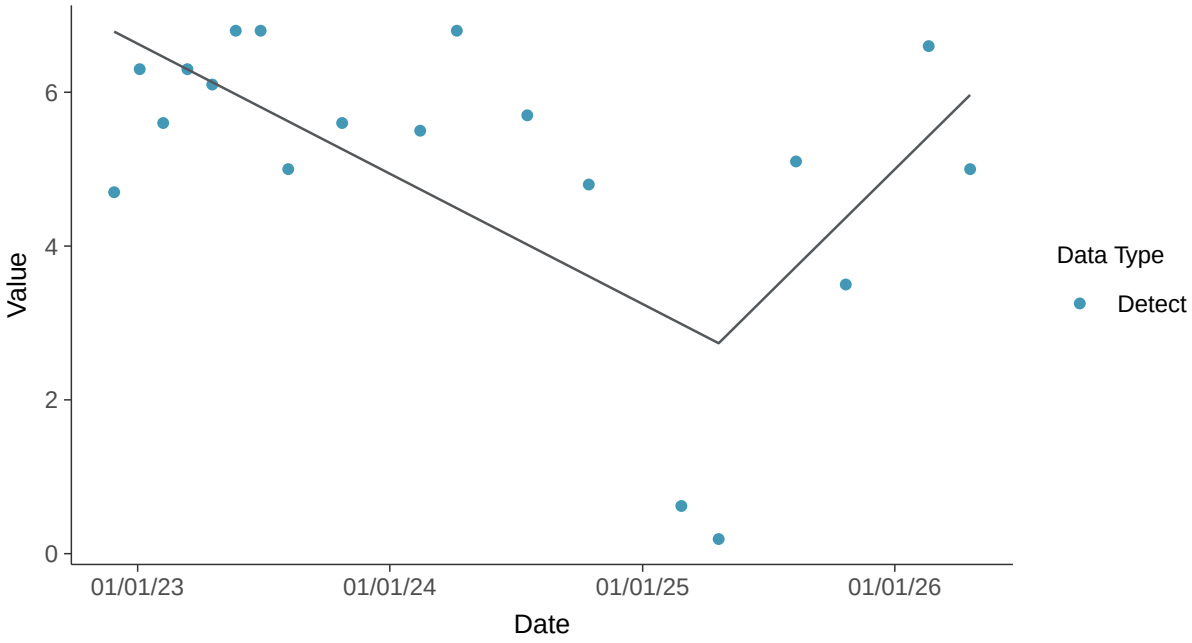
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Iron, MW-04 (mg/L)



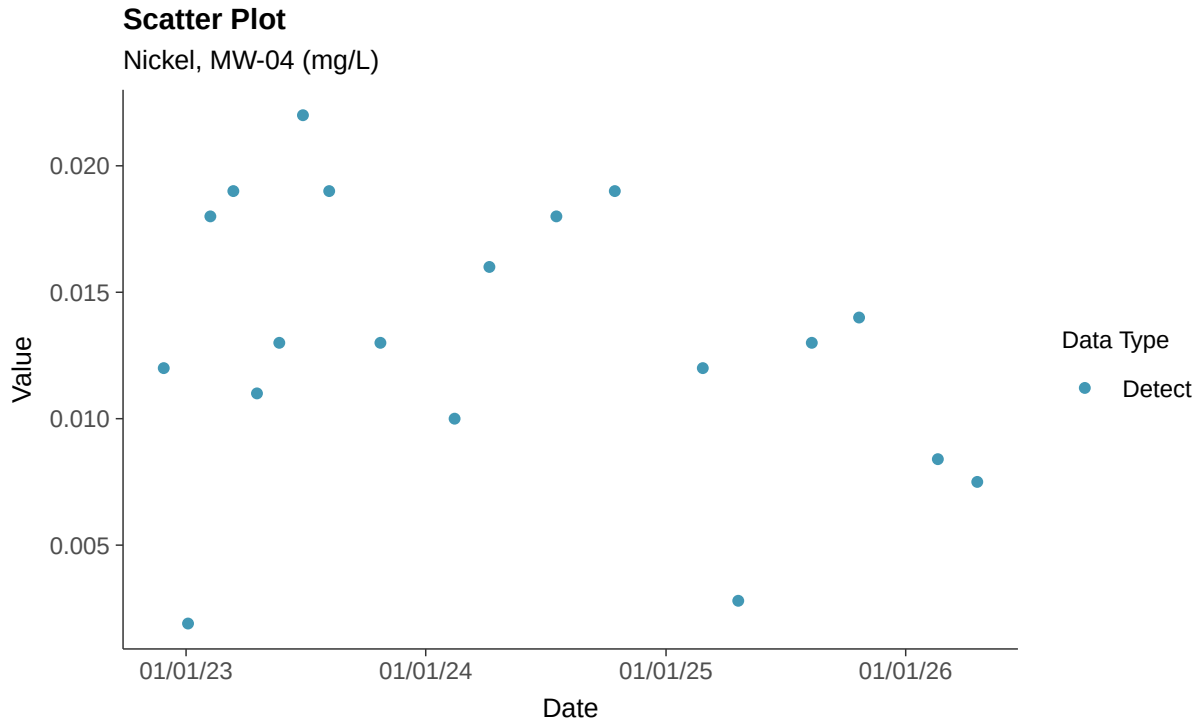
Trend Regression: Piecewise Linear-Linear

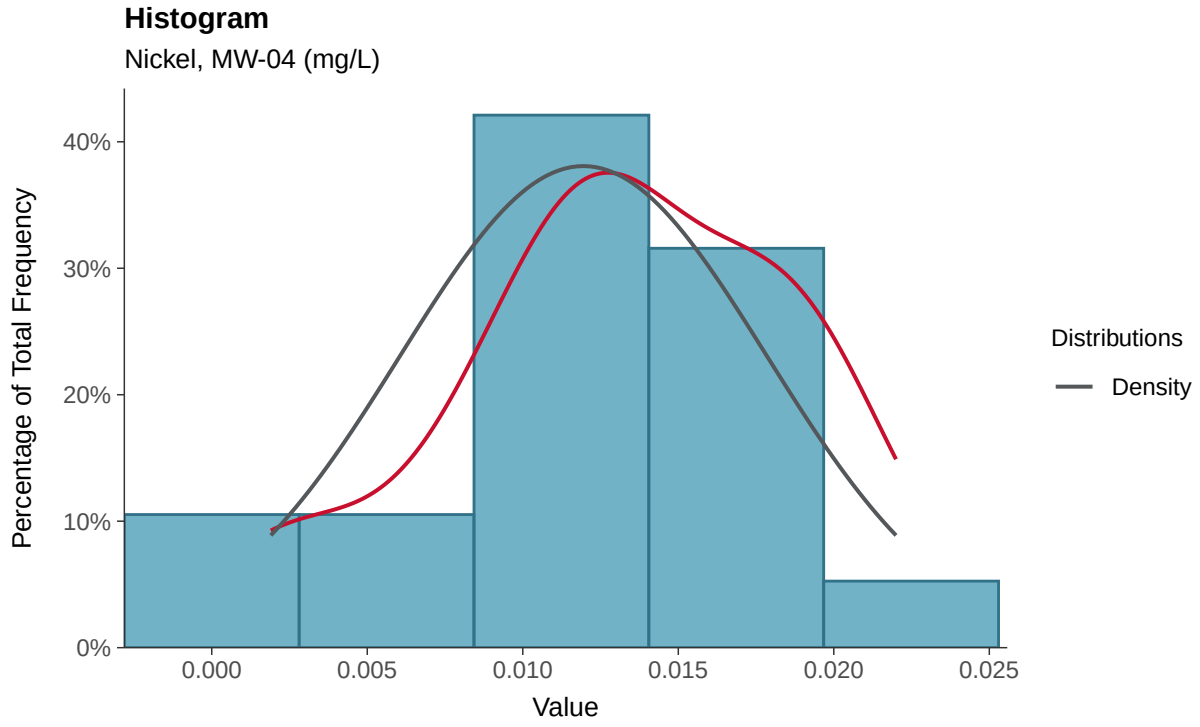
Iron, MW-04 (mg/L)



Part 115: Nickel, MW-04

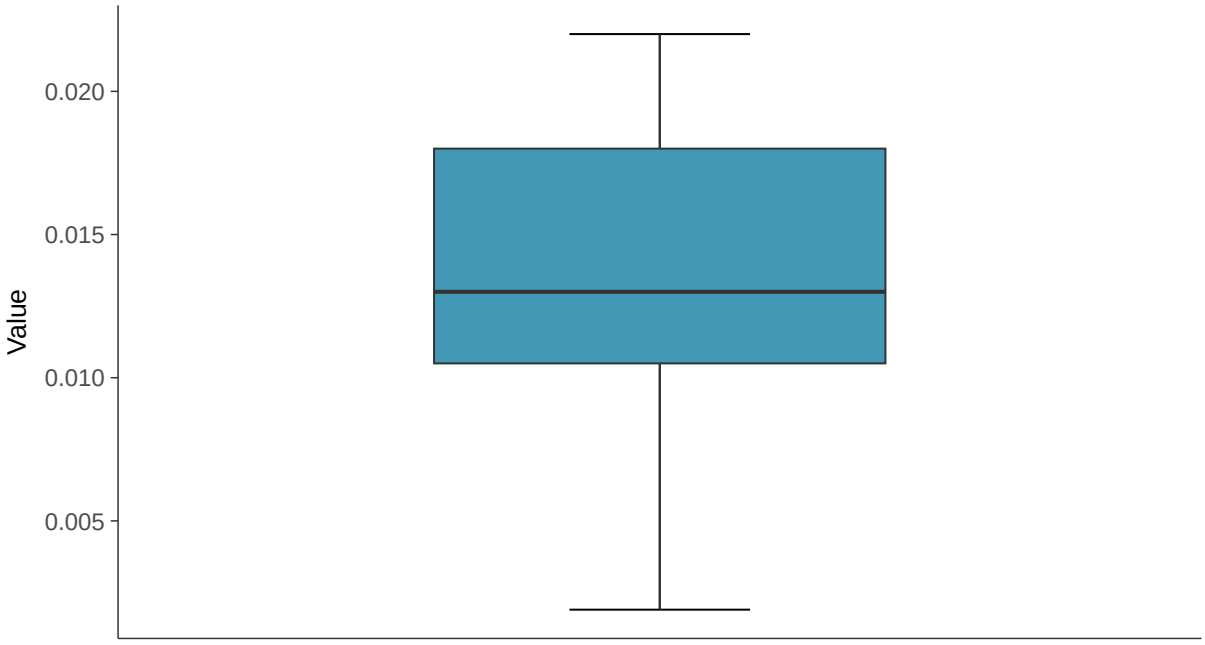
ID: 14_2_5_119





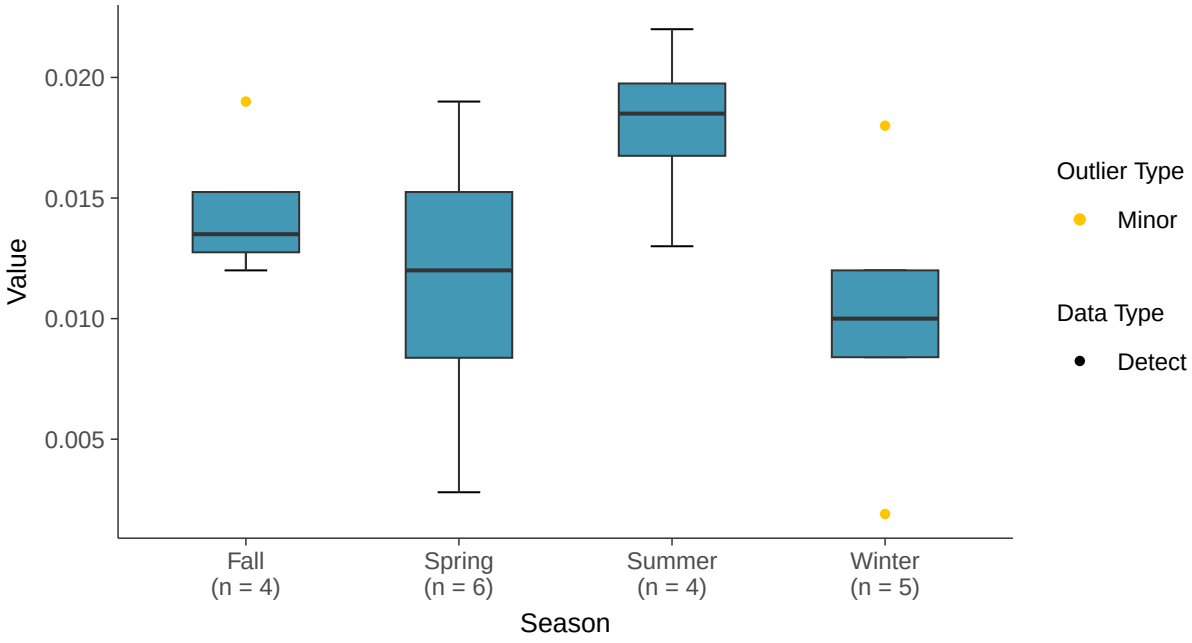
Boxplot

Nickel, MW-04 (mg/L)



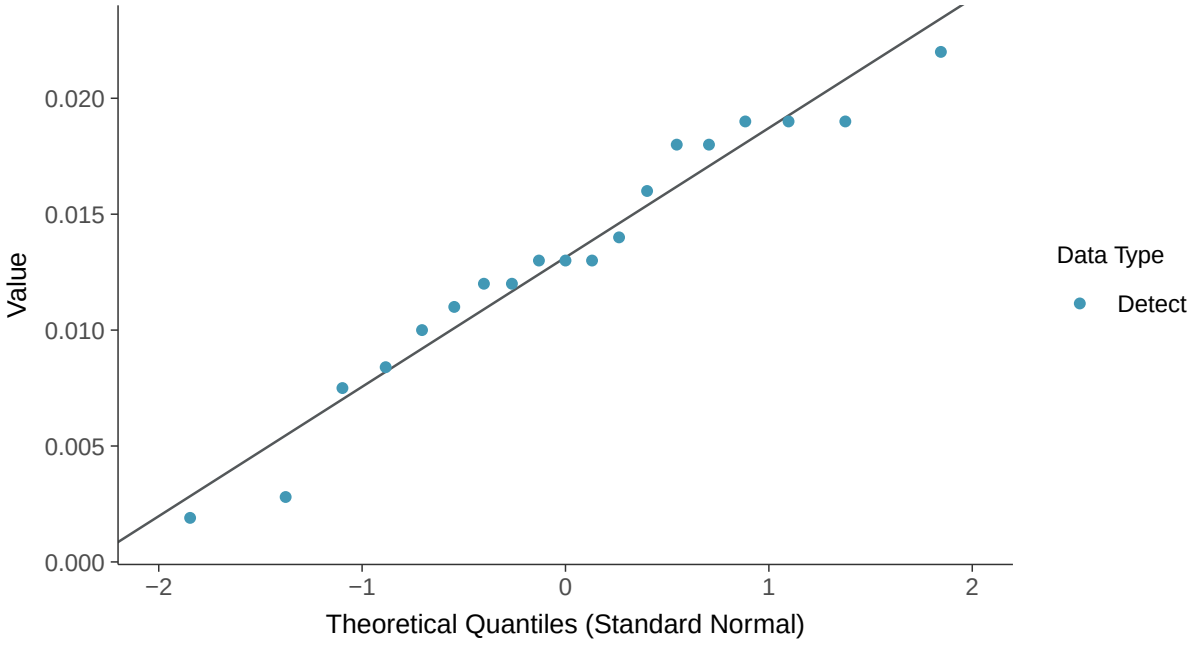
Boxplot by Season

Nickel, MW-04 (mg/L)



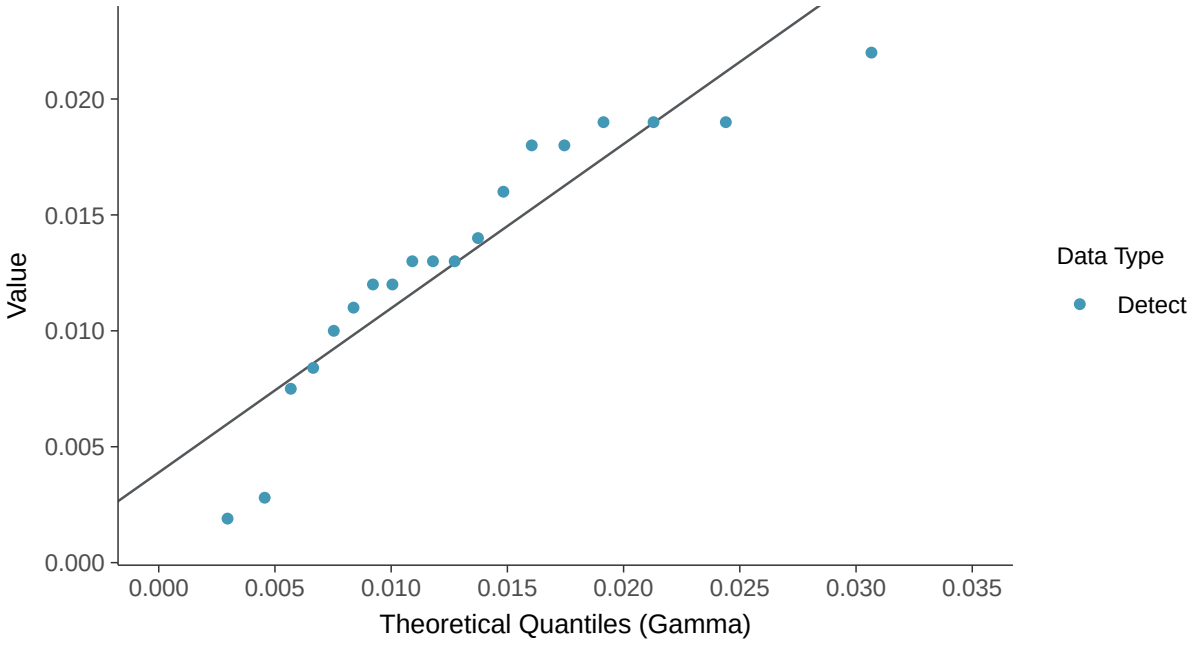
Normal Q-Q plot

Nickel, MW-04 (mg/L)



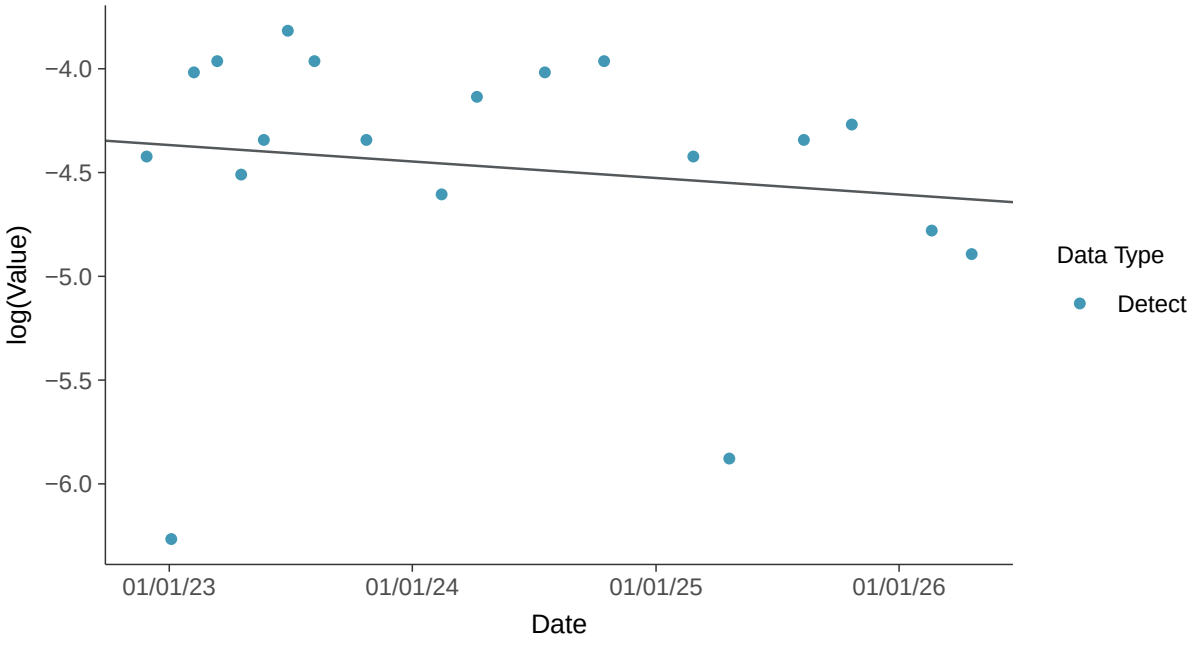
Gamma Q-Q plot

Nickel, MW-04 (mg/L)



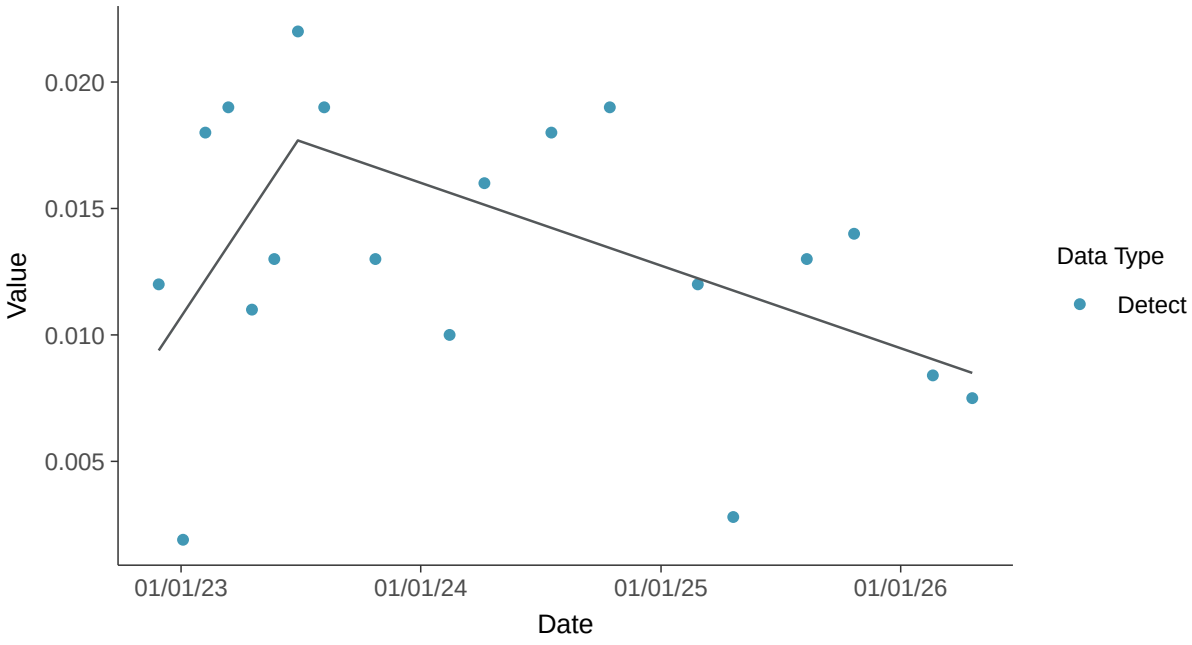
Trend Regression: Lognormal MLE

Nickel, MW-04 (mg/L)



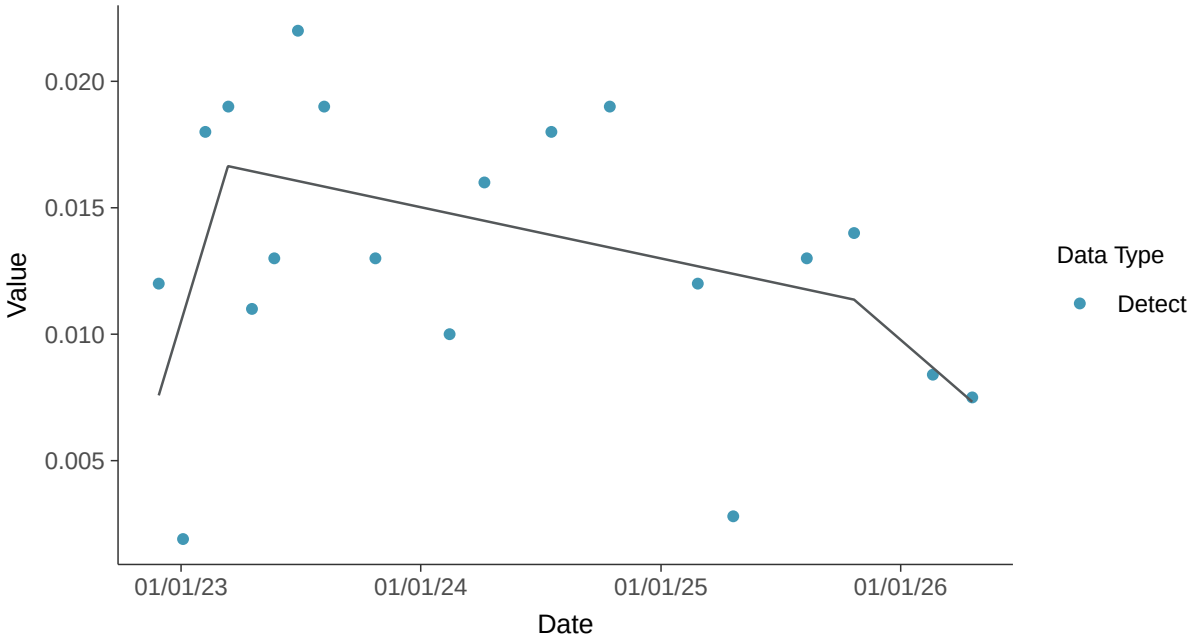
Trend Regression: Piecewise Linear-Linear

Nickel, MW-04 (mg/L)



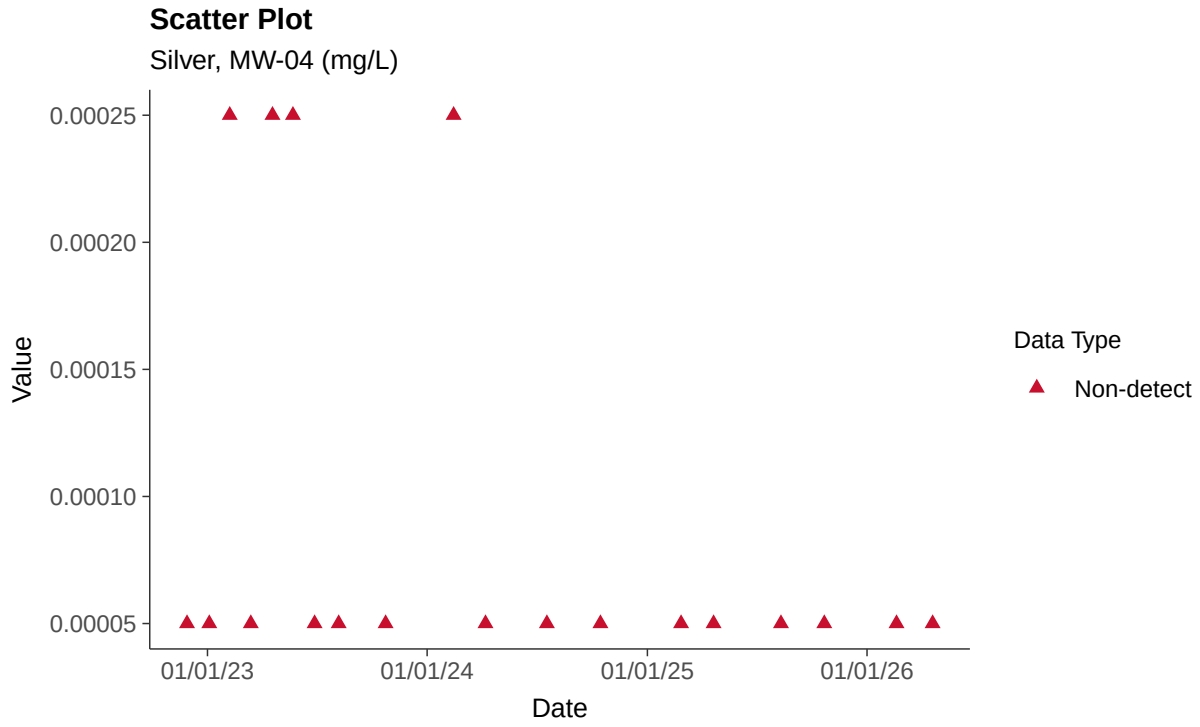
Trend Regression: Piecewise Linear-Linear-Linear

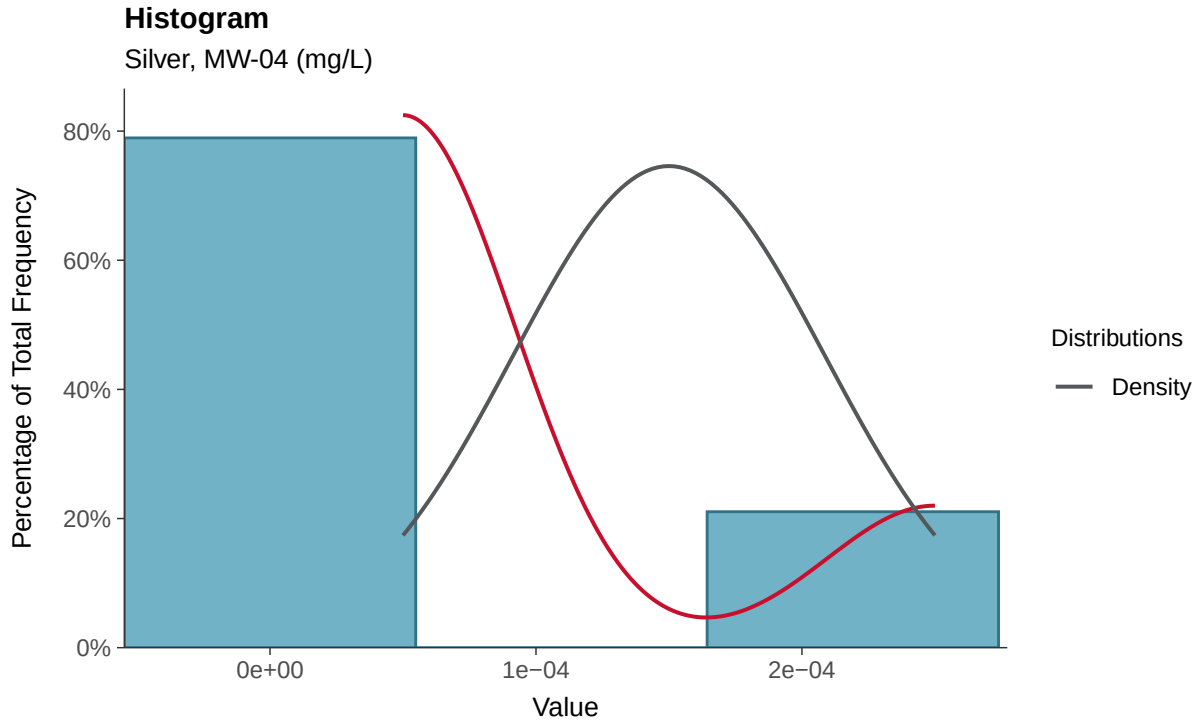
Nickel, MW-04 (mg/L)



Part 115: Silver, MW-04

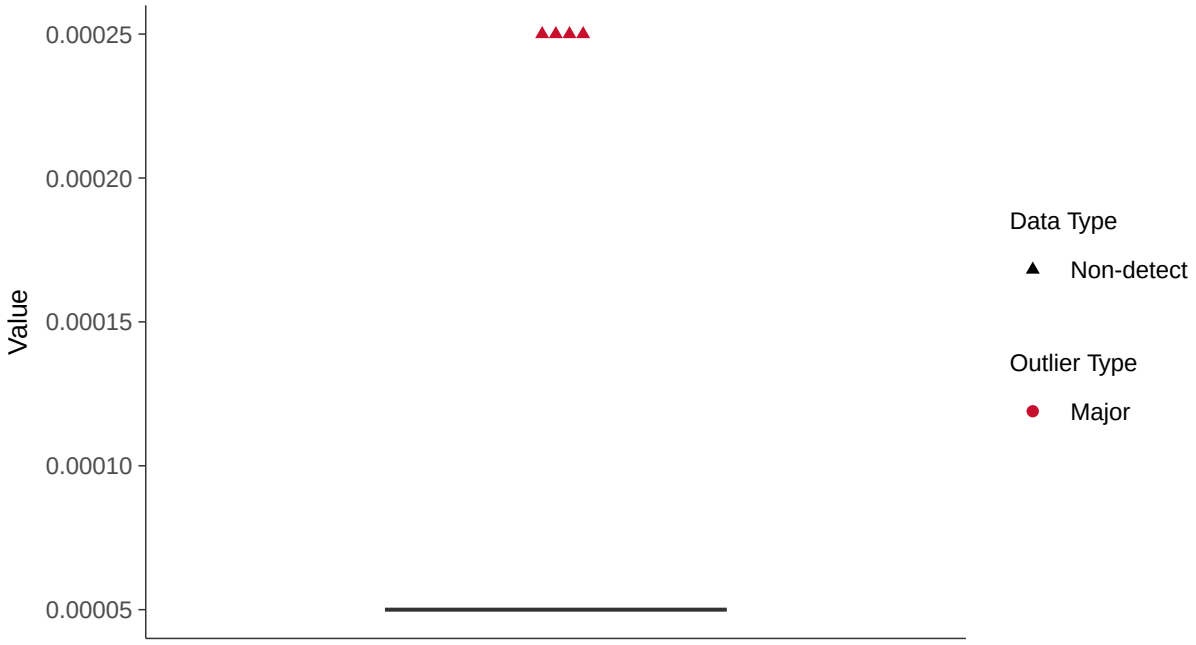
ID: 14_2_5_123





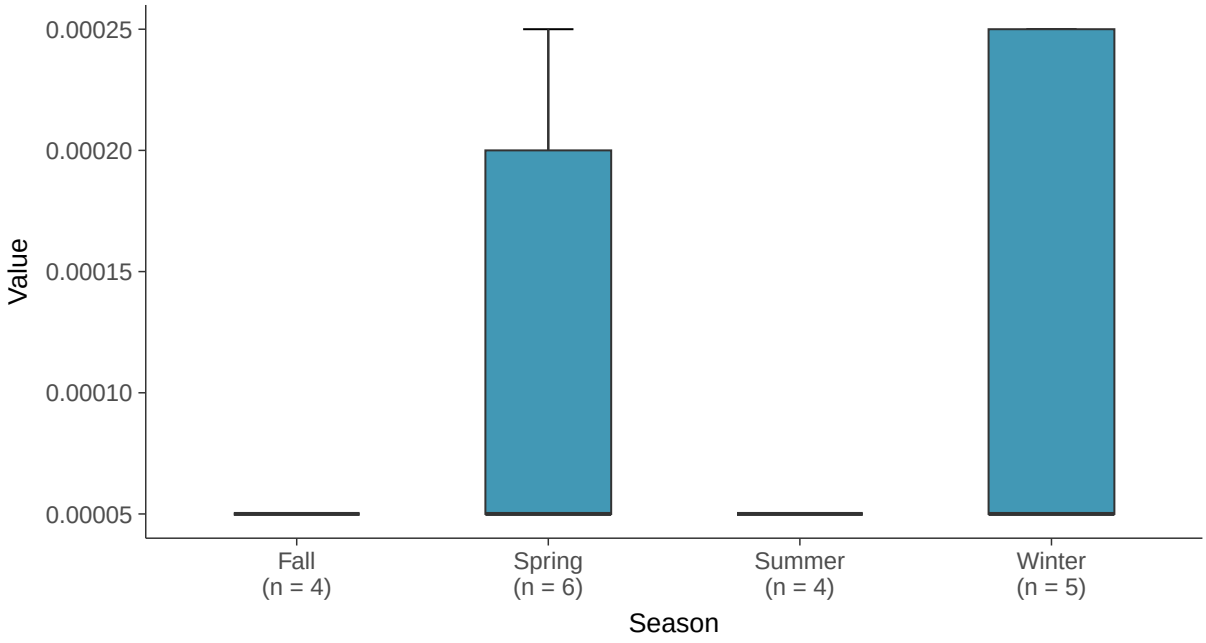
Boxplot

Silver, MW-04 (mg/L)



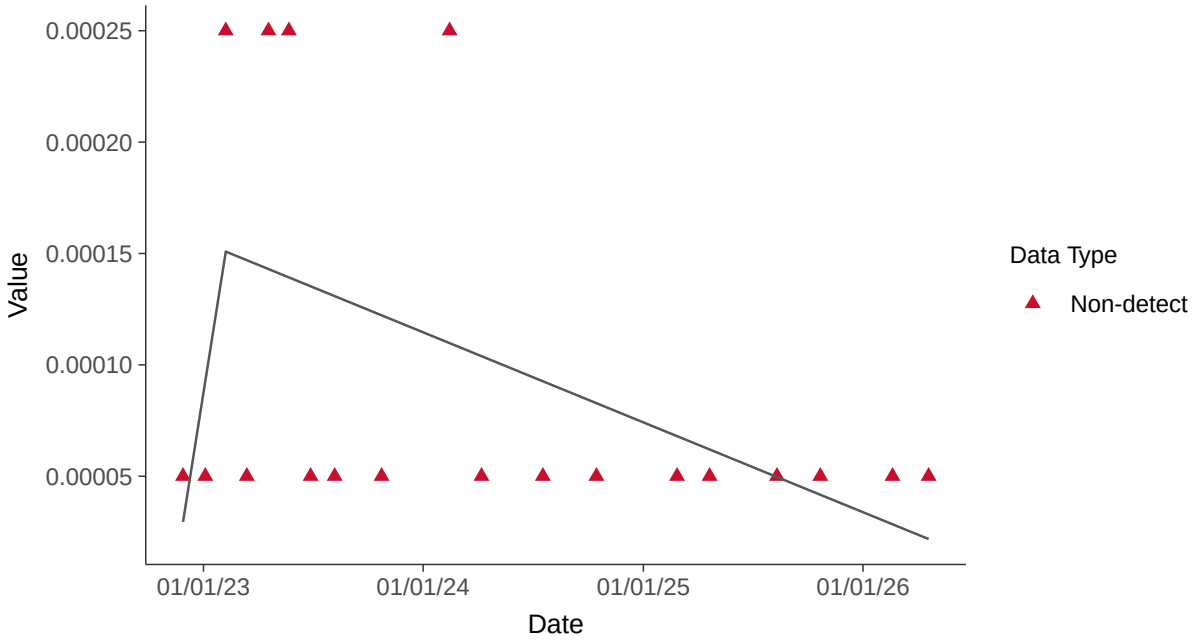
Boxplot by Season

Silver, MW-04 (mg/L)



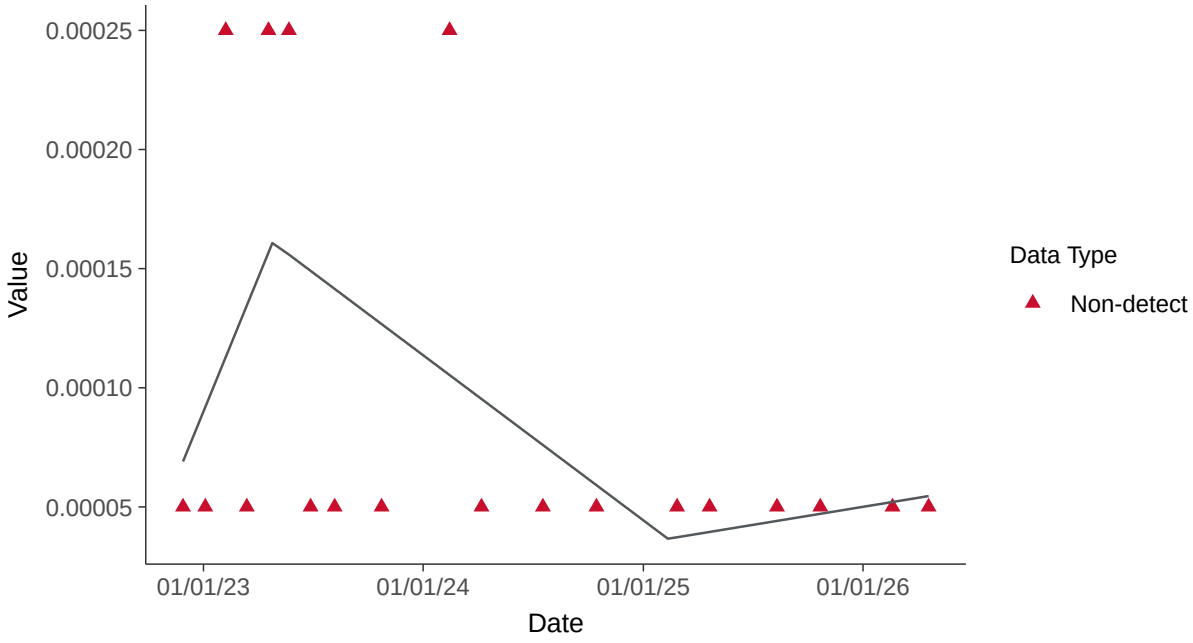
Trend Regression: Piecewise Linear-Linear

Silver, MW-04 (mg/L)



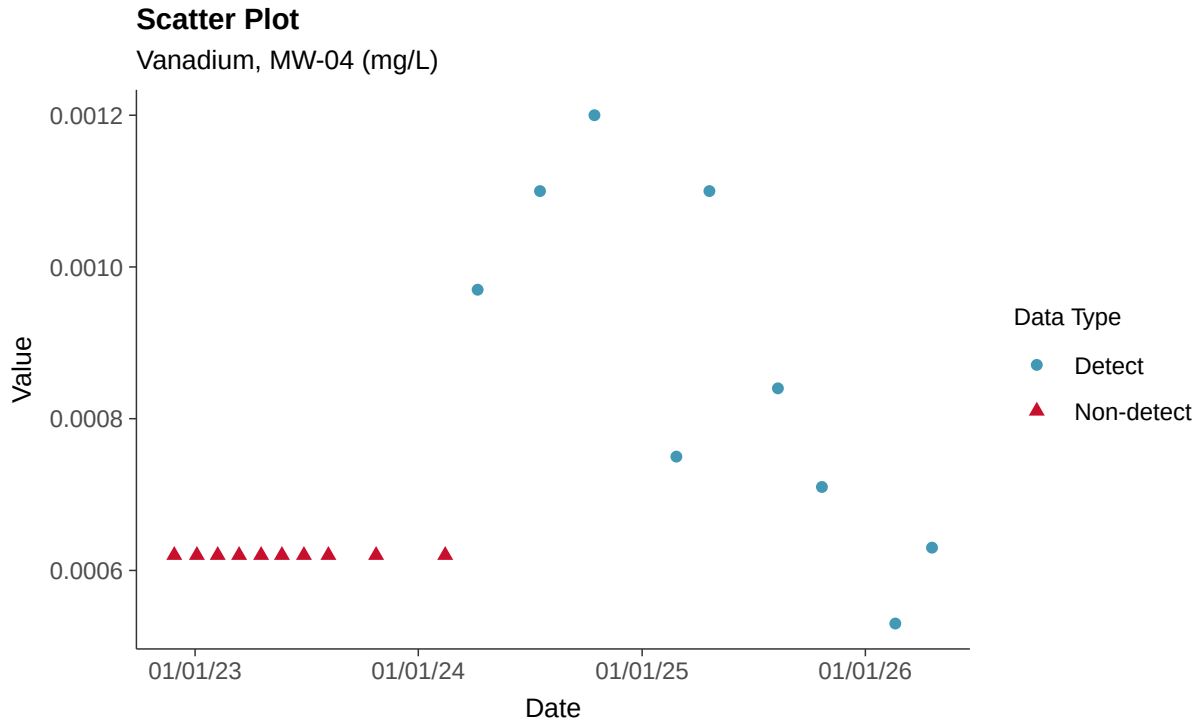
Trend Regression: Piecewise Linear-Linear-Linear

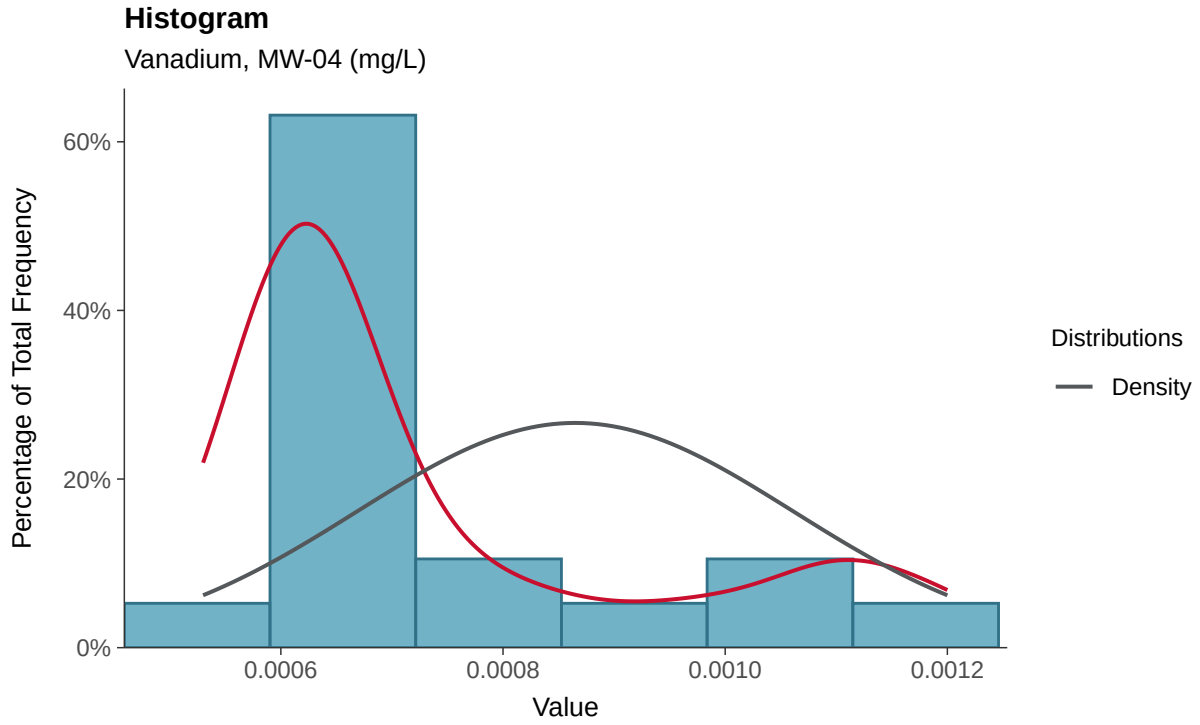
Silver, MW-04 (mg/L)



Part 115: Vanadium, MW-04

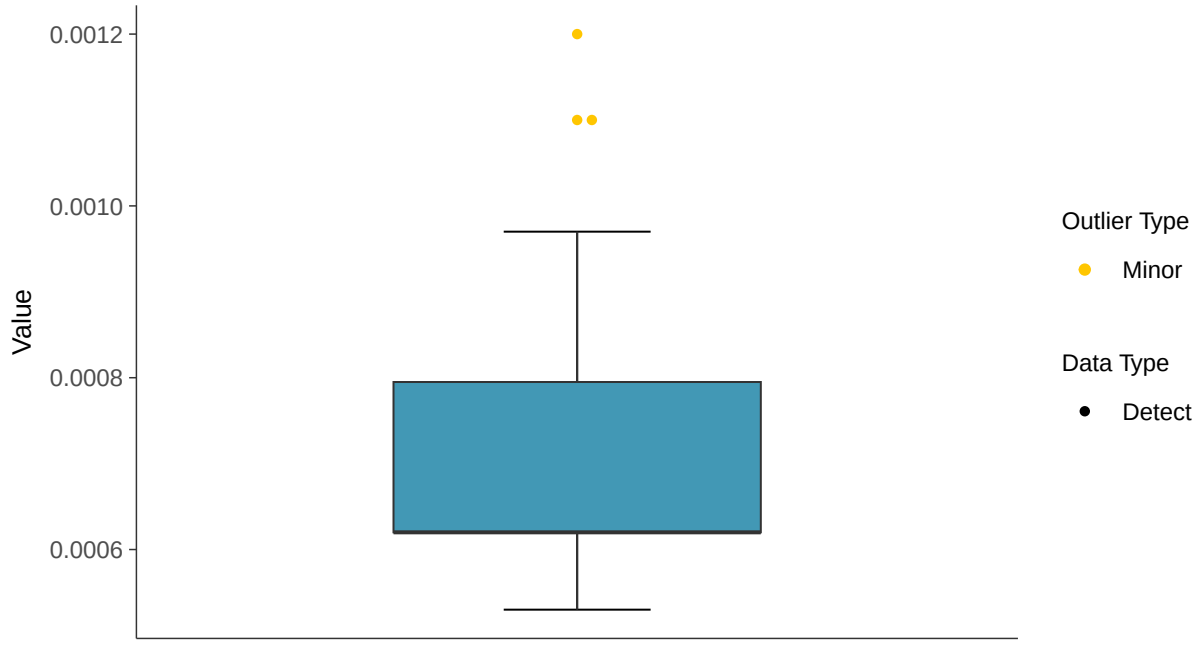
ID: 14_2_5_128





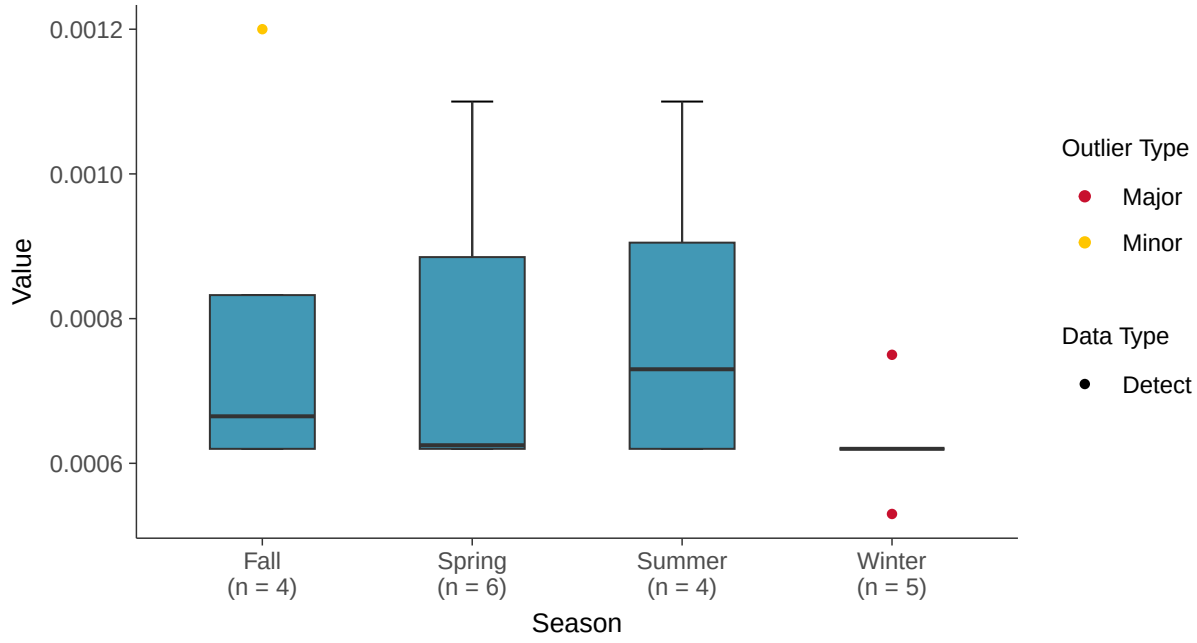
Boxplot

Vanadium, MW-04 (mg/L)



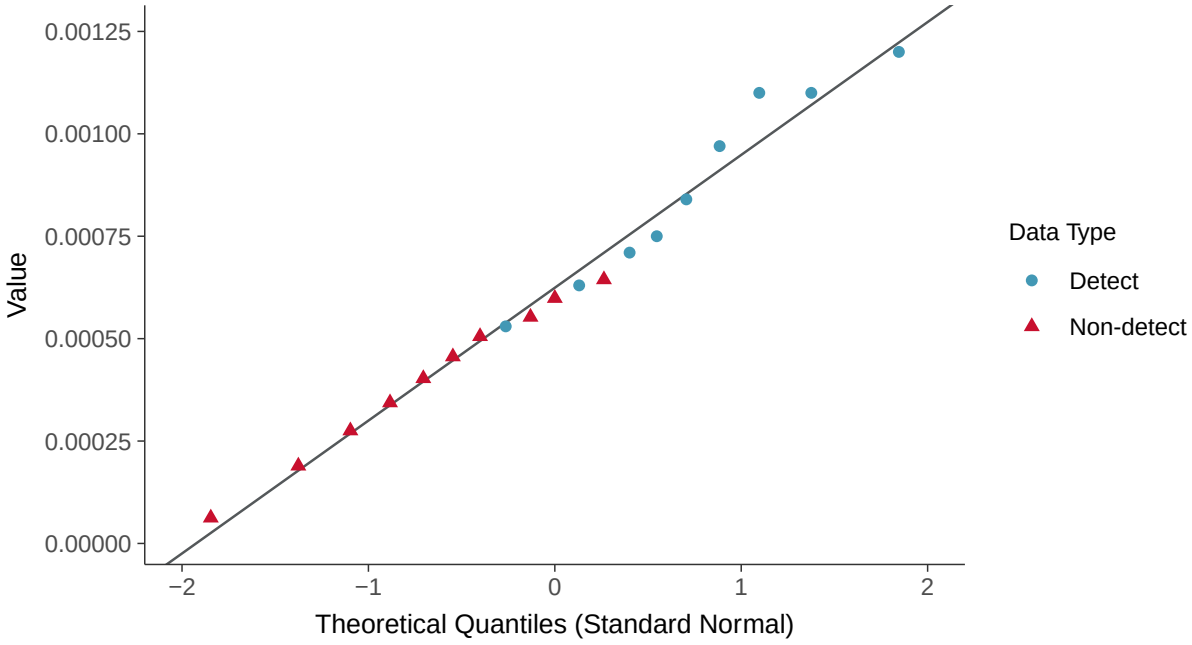
Boxplot by Season

Vanadium, MW-04 (mg/L)



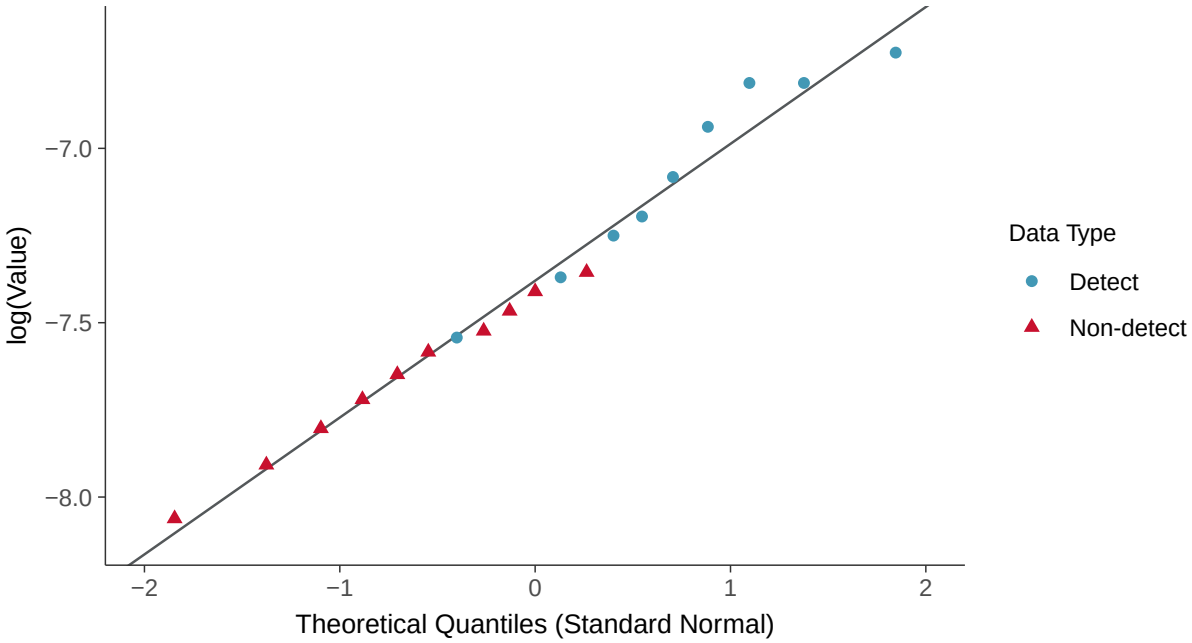
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-04 (mg/L)



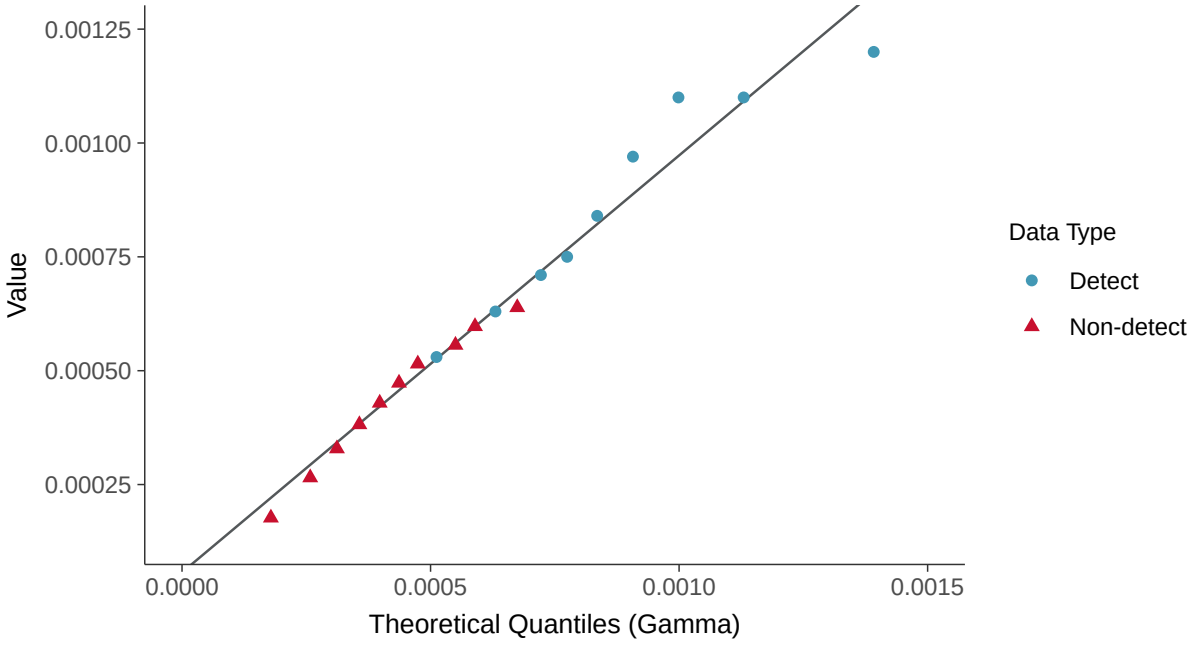
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-04 (mg/L)



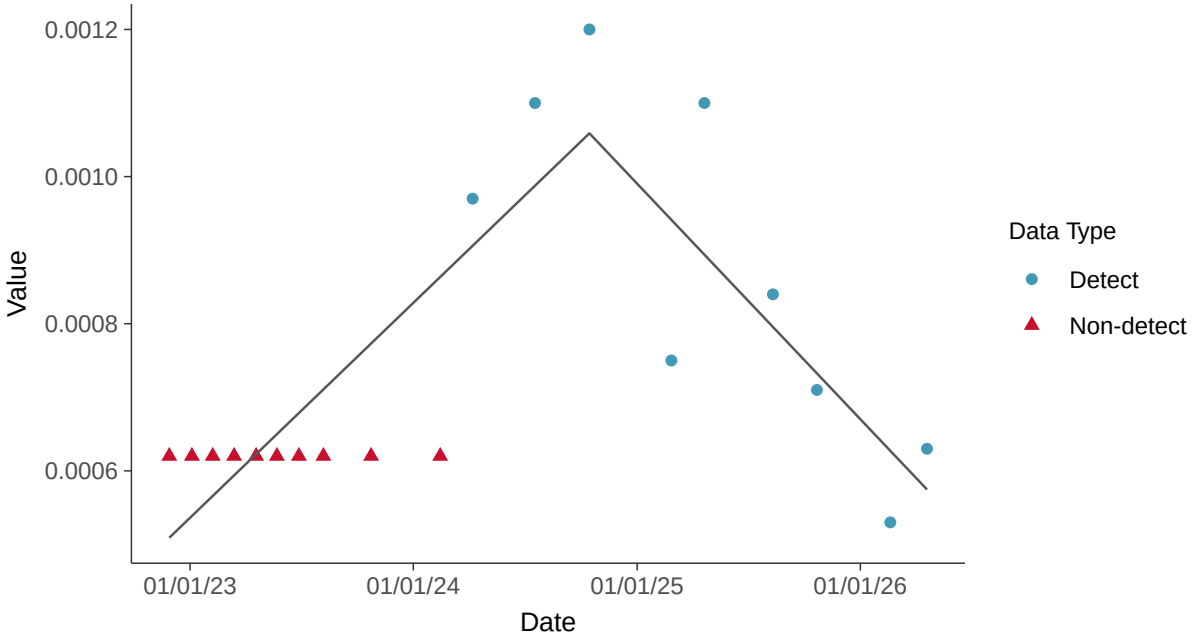
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-04 (mg/L)



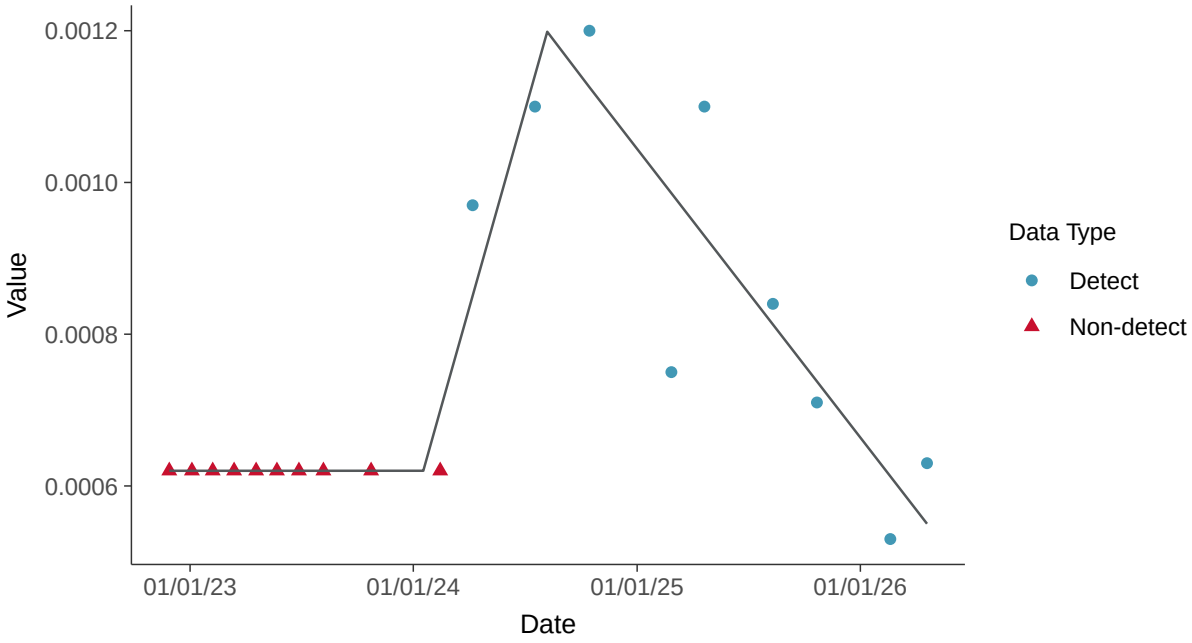
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-04 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-04 (mg/L)

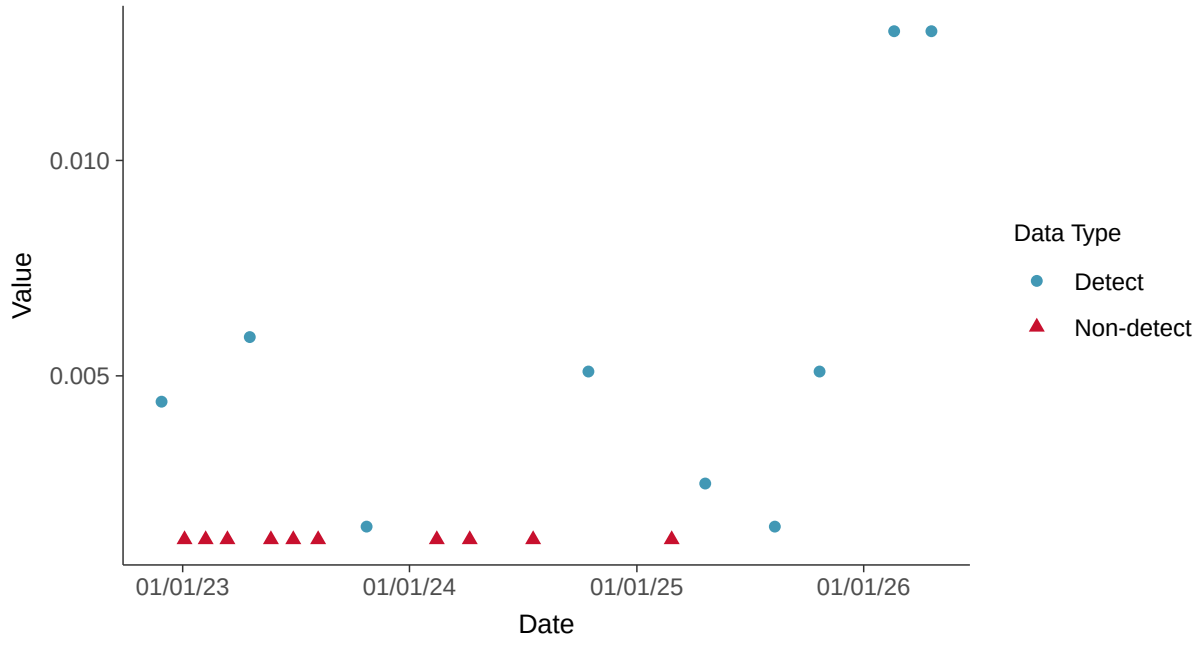


Part 115: Zinc, MW-04

ID: 14_2_5_129

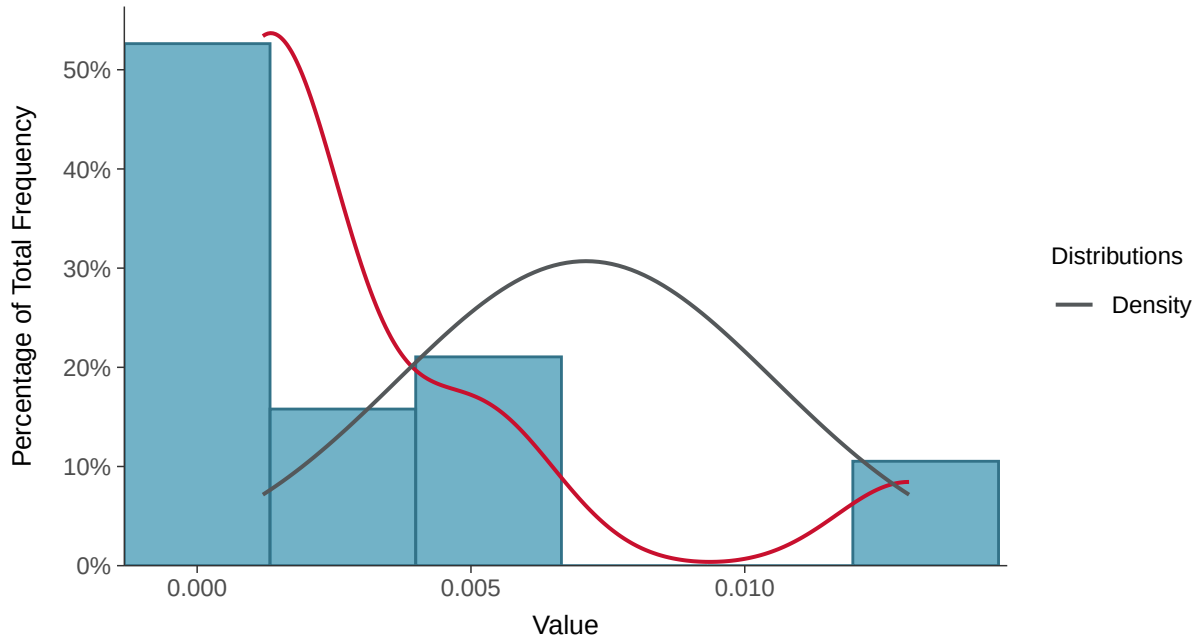
Scatter Plot

Zinc, MW-04 (mg/L)



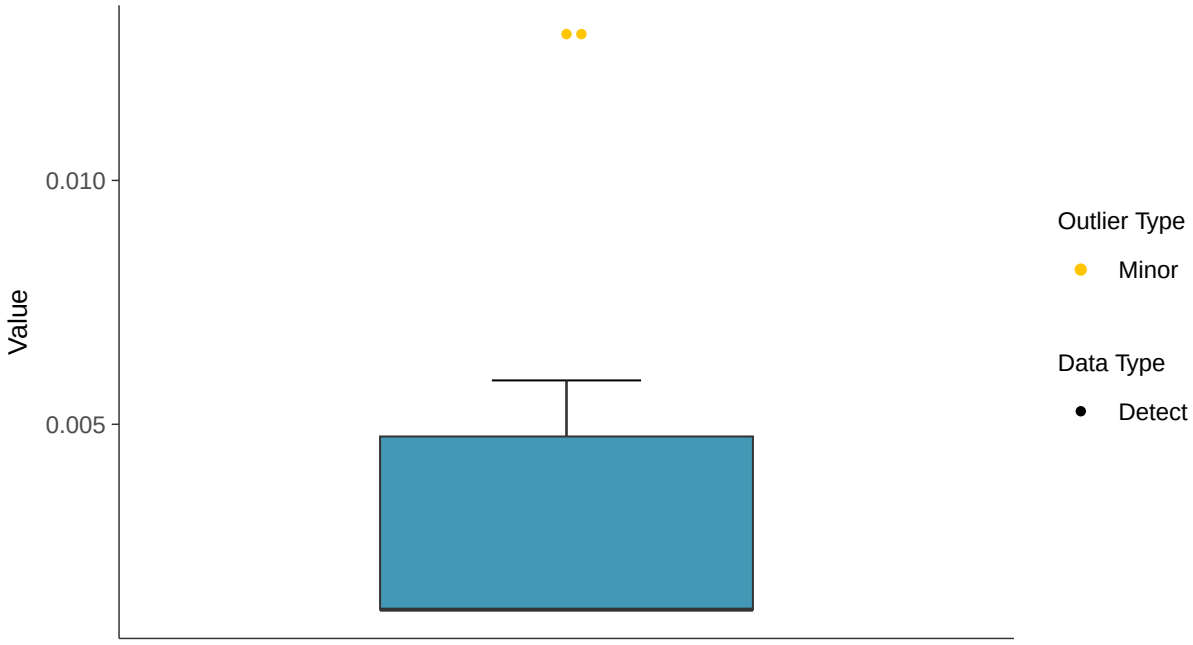
Histogram

Zinc, MW-04 (mg/L)



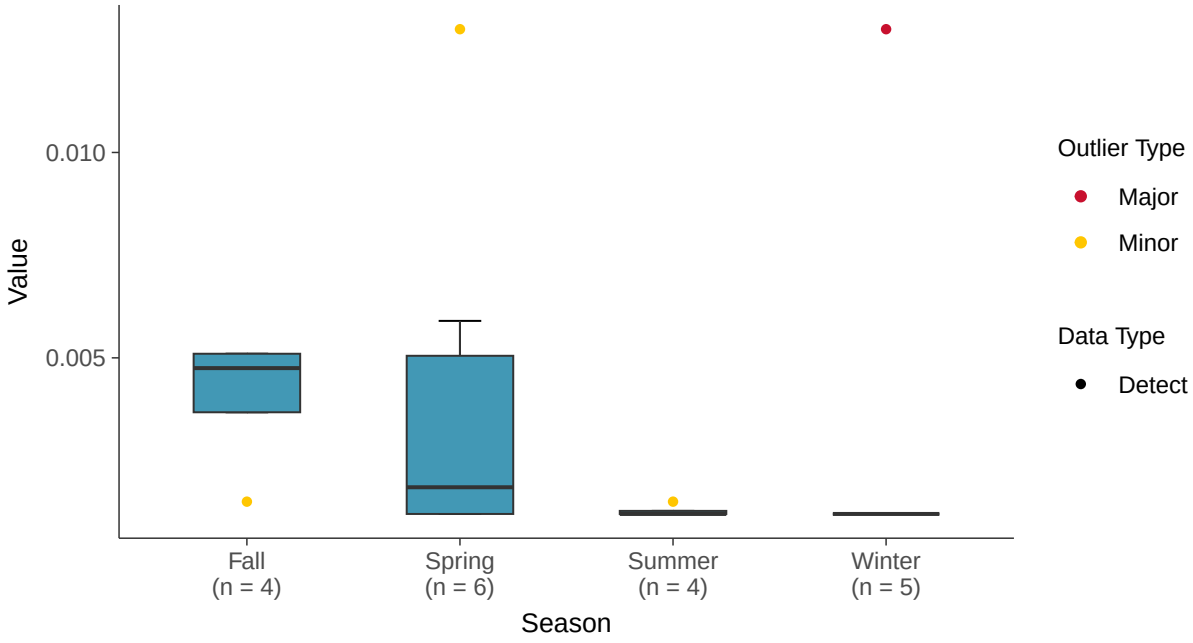
Boxplot

Zinc, MW-04 (mg/L)



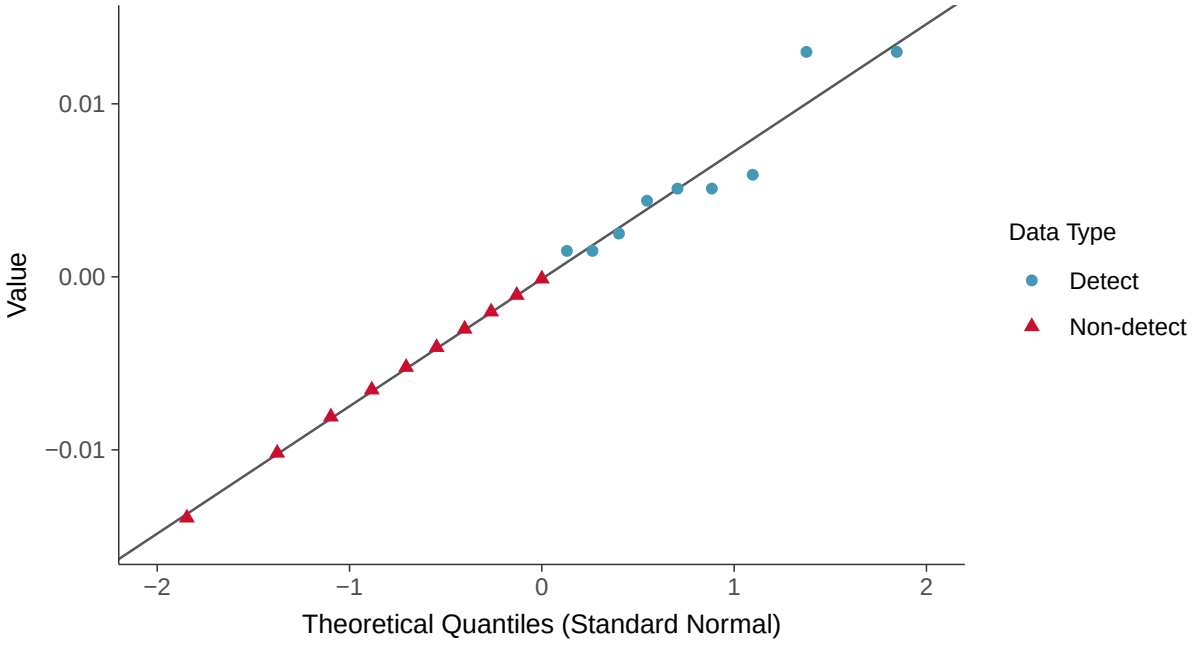
Boxplot by Season

Zinc, MW-04 (mg/L)



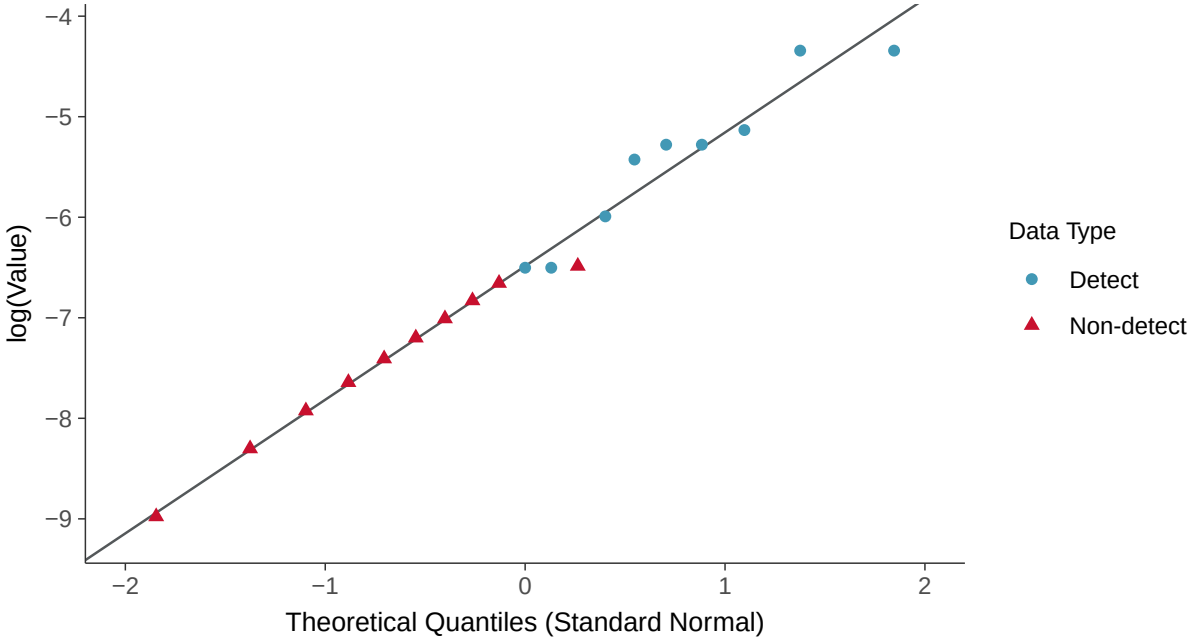
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-04 (mg/L)



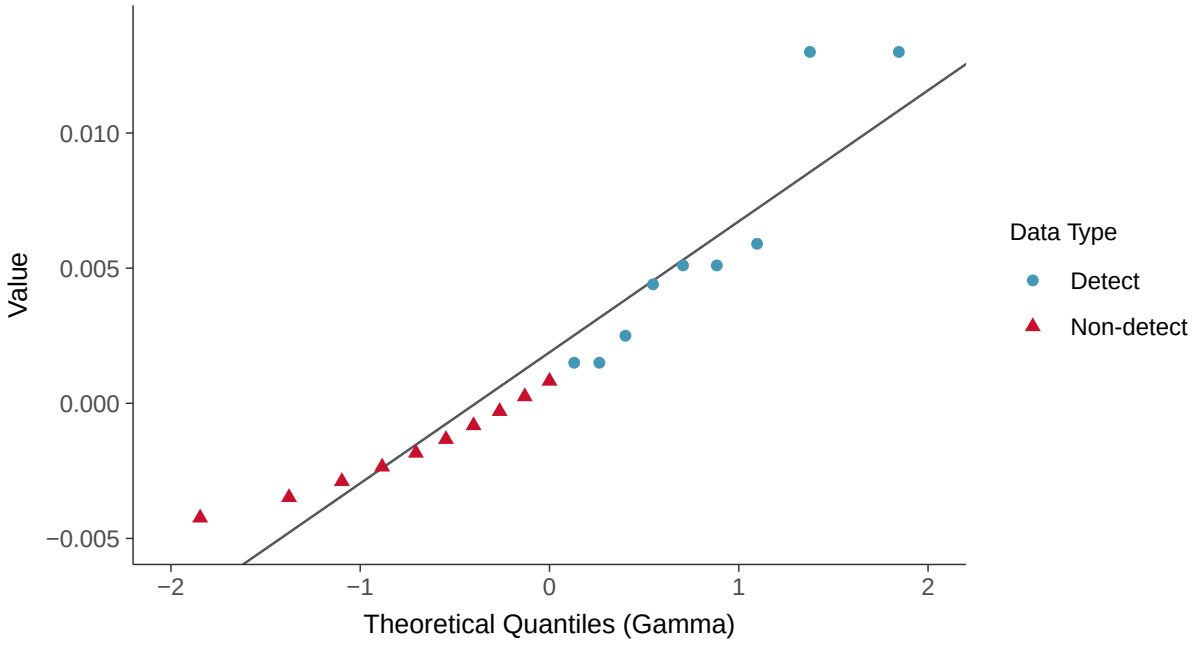
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-04 (mg/L)



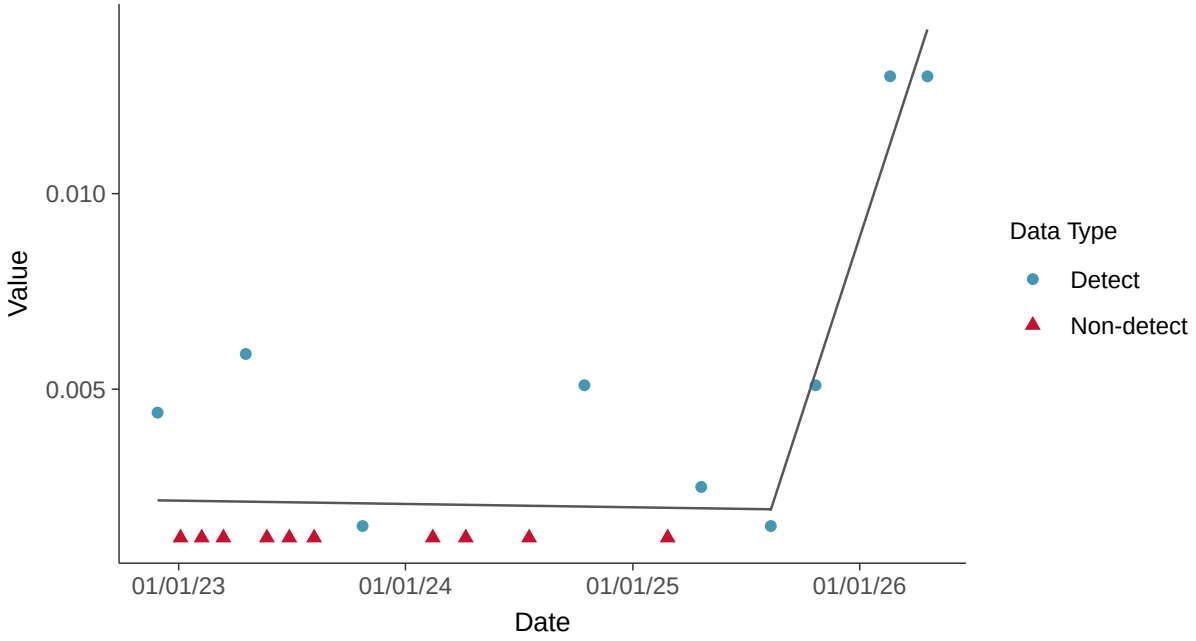
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-04 (mg/L)



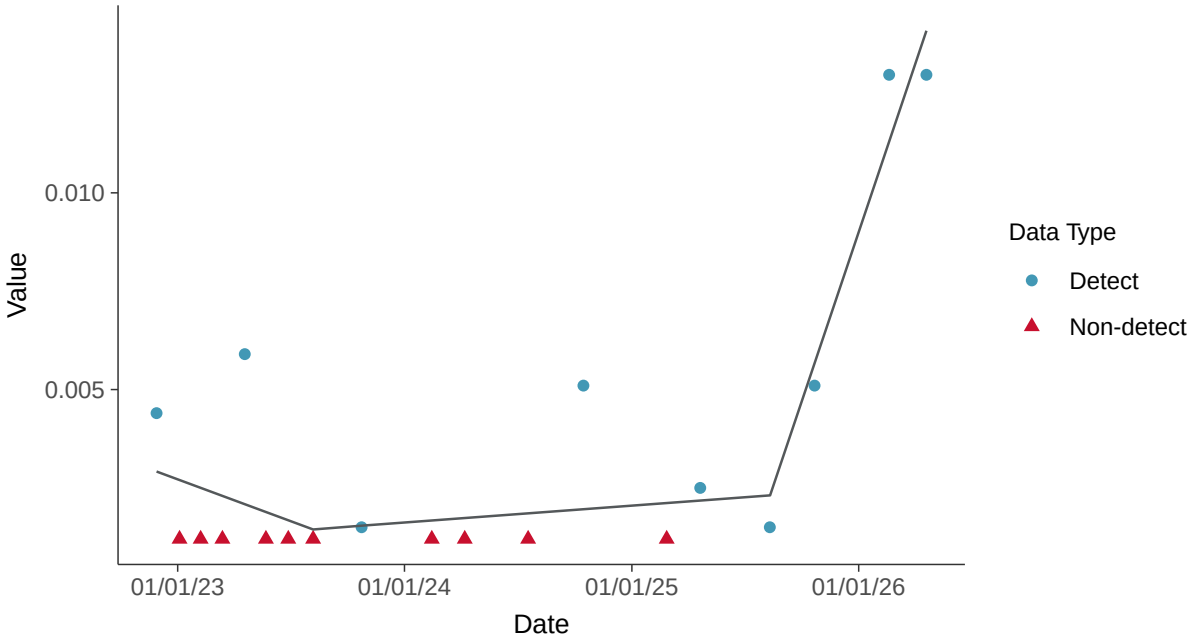
Trend Regression: Piecewise Linear-Linear

Zinc, MW-04 (mg/L)



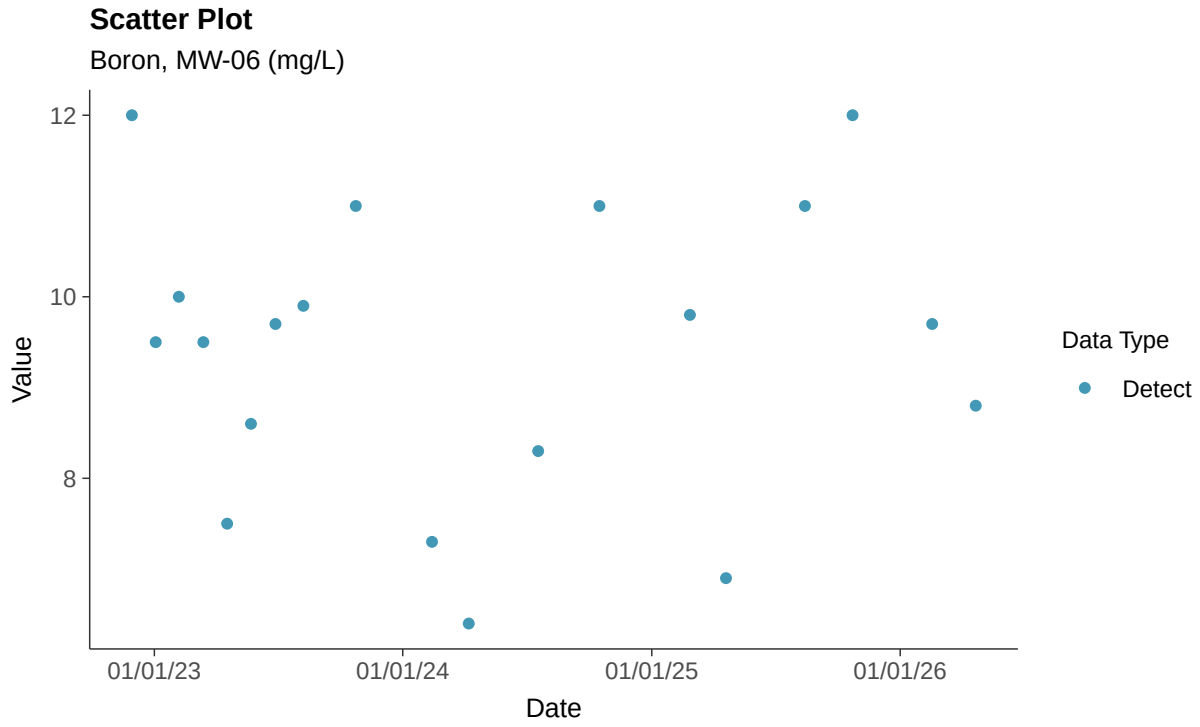
Trend Regression: Piecewise Linear-Linear-Linear

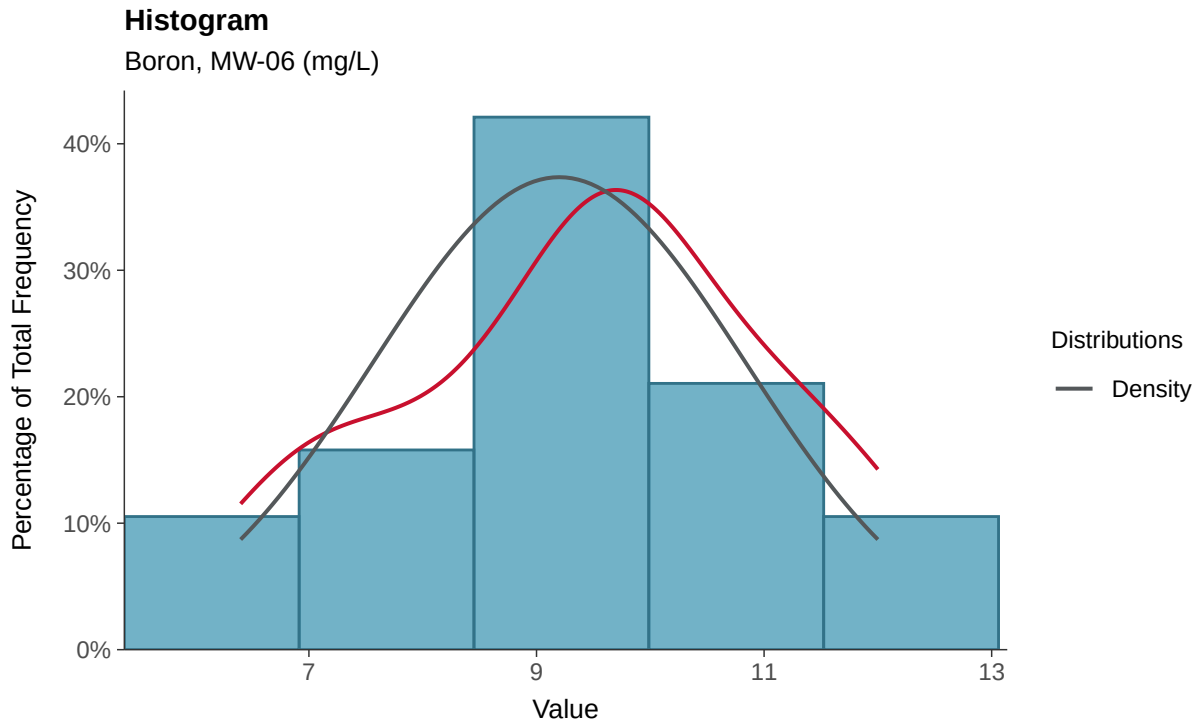
Zinc, MW-04 (mg/L)



Appendix III: Boron, MW-06

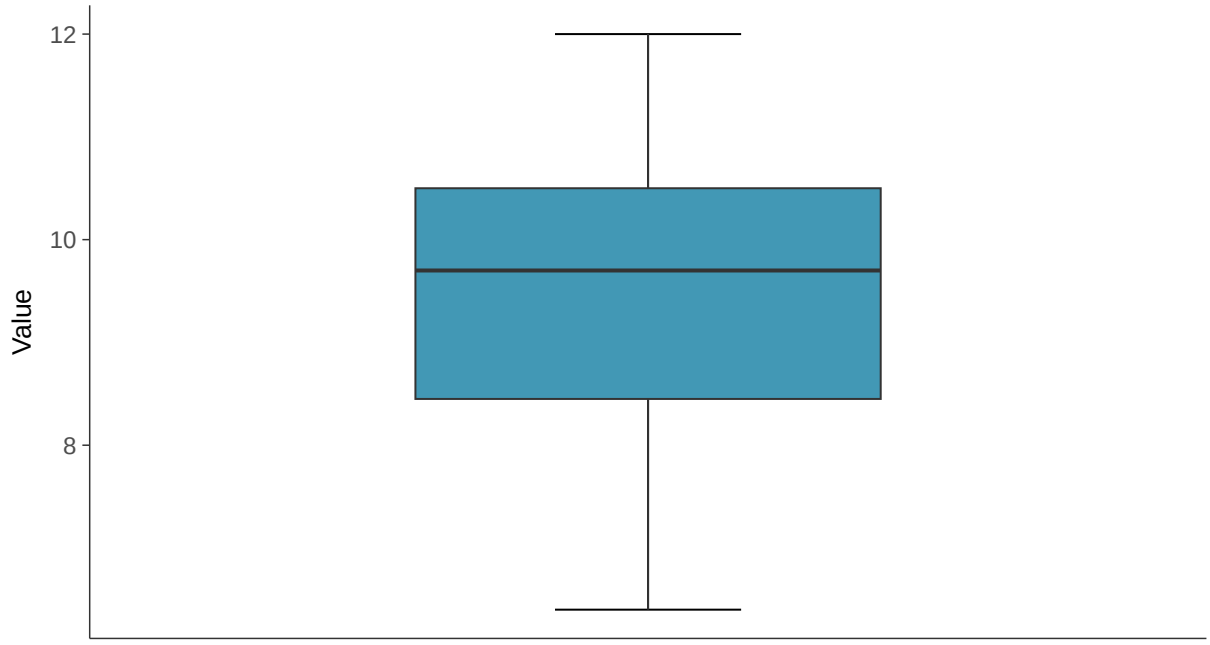
ID: 16_1_3_105





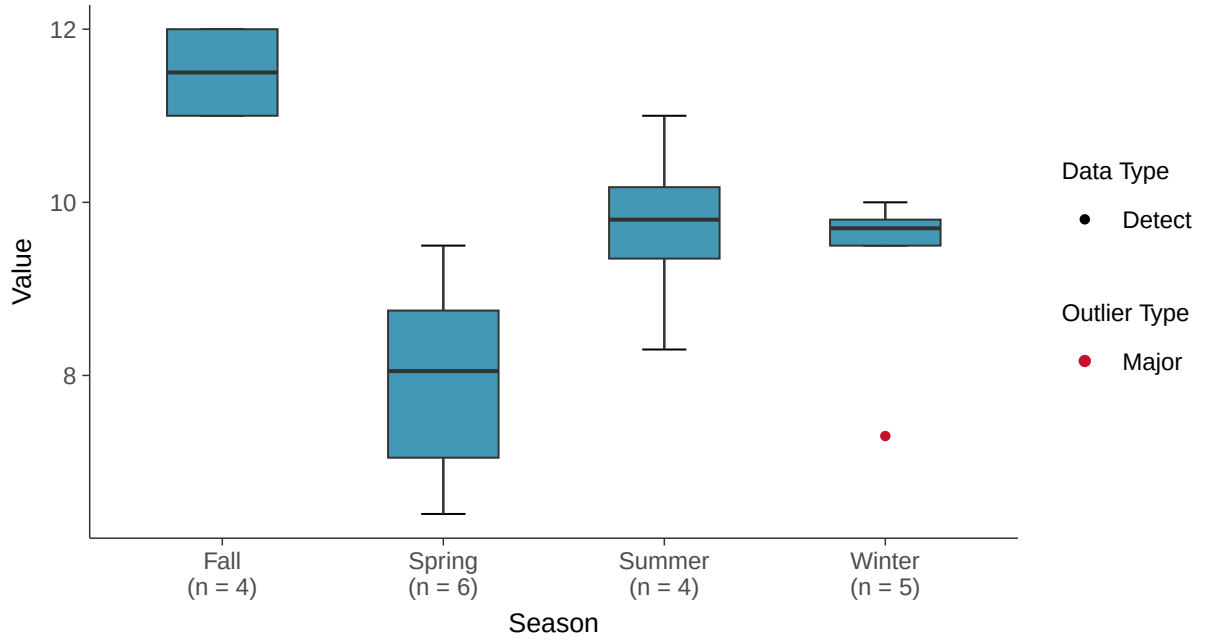
Boxplot

Boron, MW-06 (mg/L)



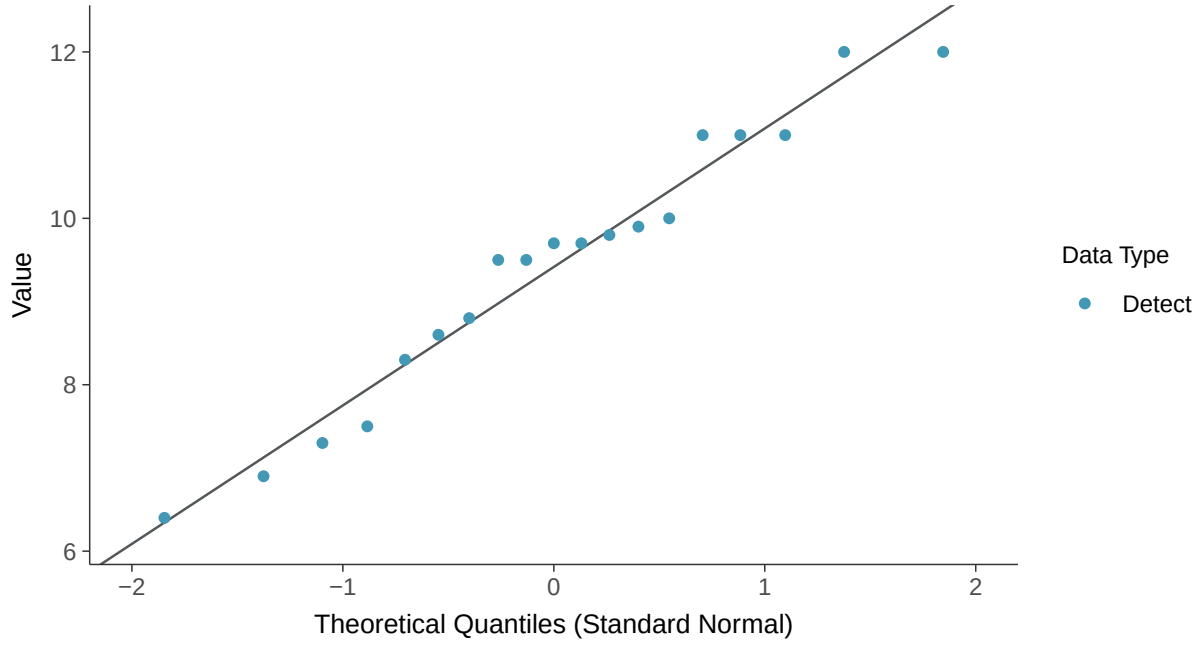
Boxplot by Season

Boron, MW-06 (mg/L)



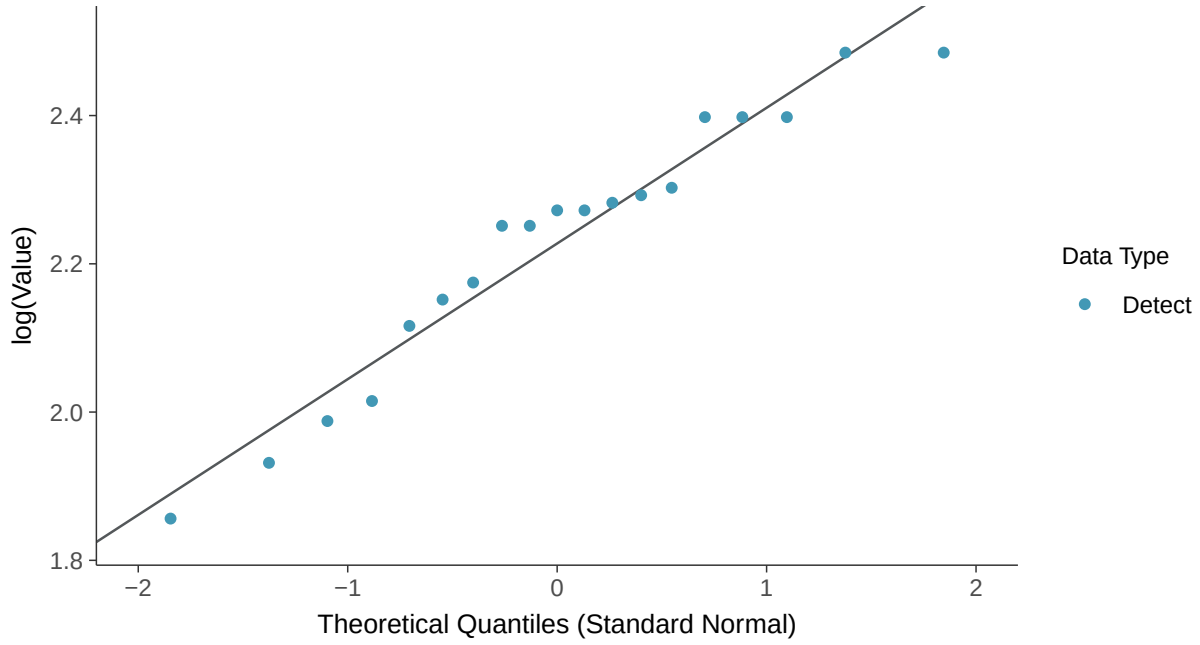
Normal Q-Q plot

Boron, MW-06 (mg/L)



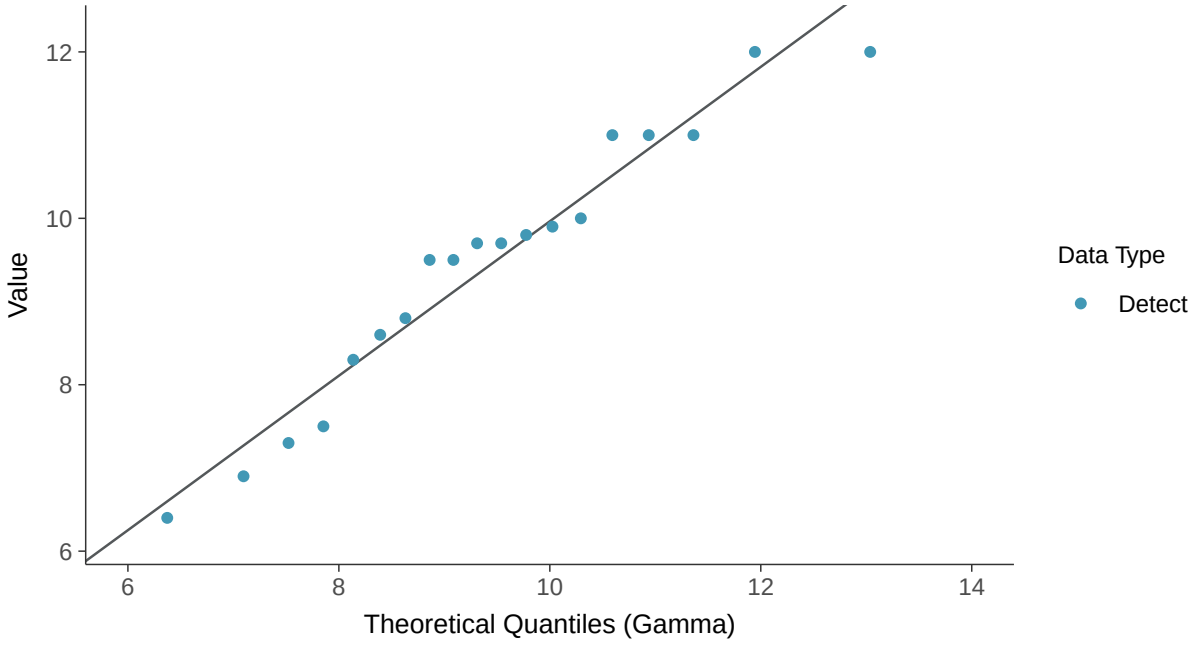
Lognormal Q-Q plot

Boron, MW-06 (mg/L)



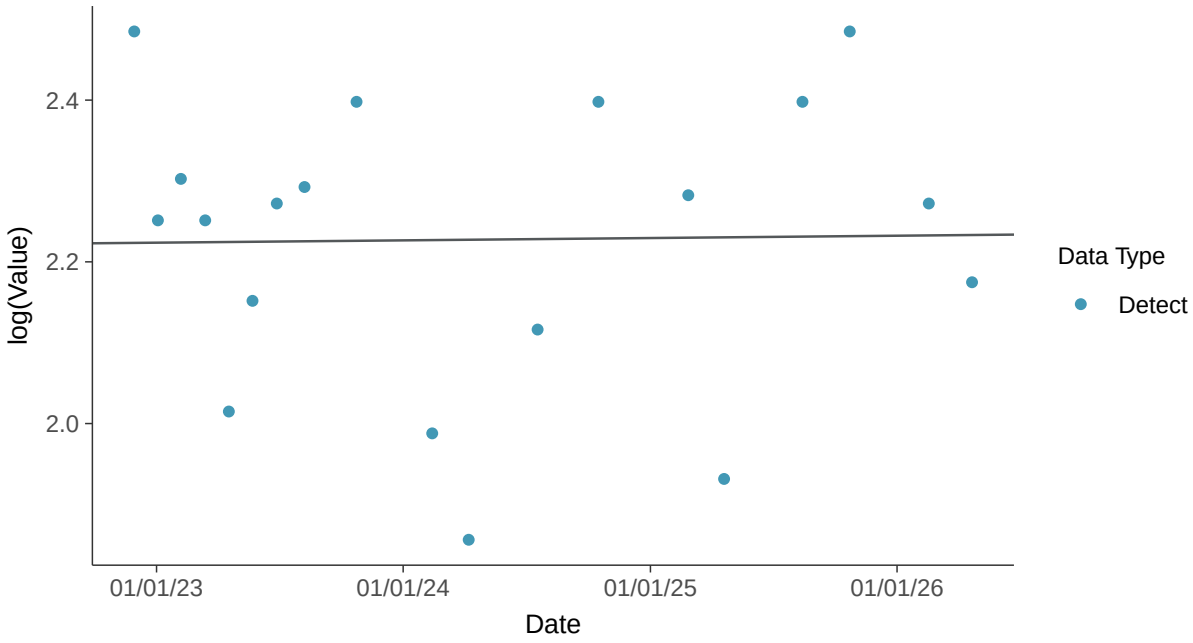
Gamma Q-Q plot

Boron, MW-06 (mg/L)



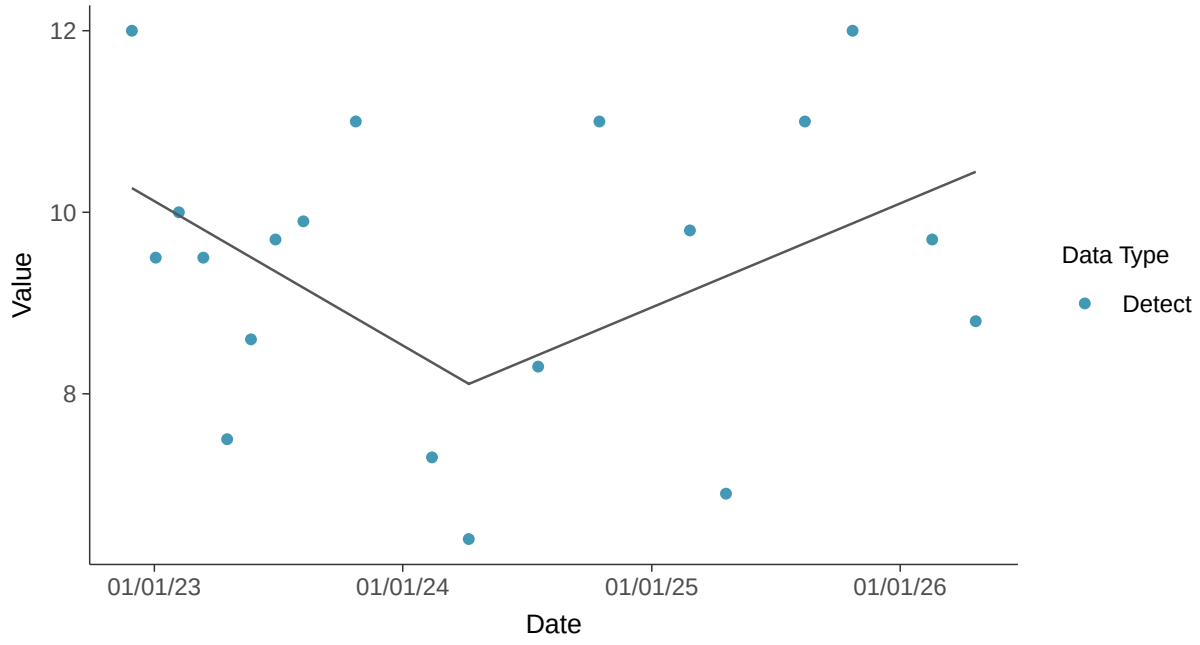
Trend Regression: Lognormal MLE

Boron, MW-06 (mg/L)



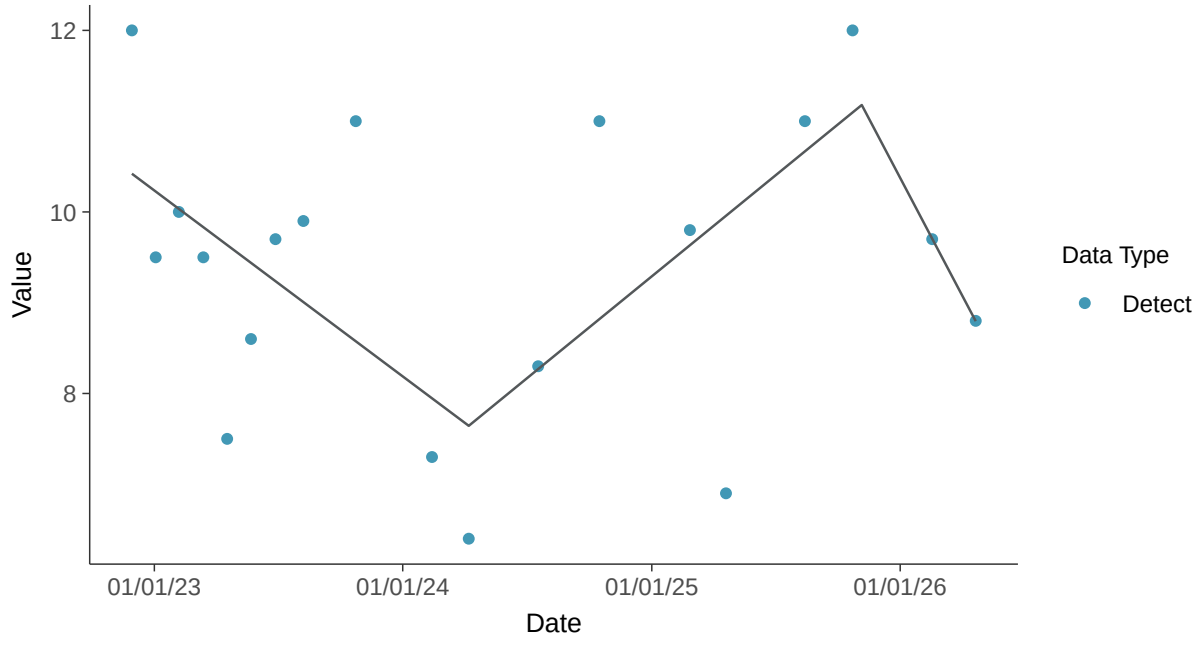
Trend Regression: Piecewise Linear-Linear

Boron, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-06 (mg/L)

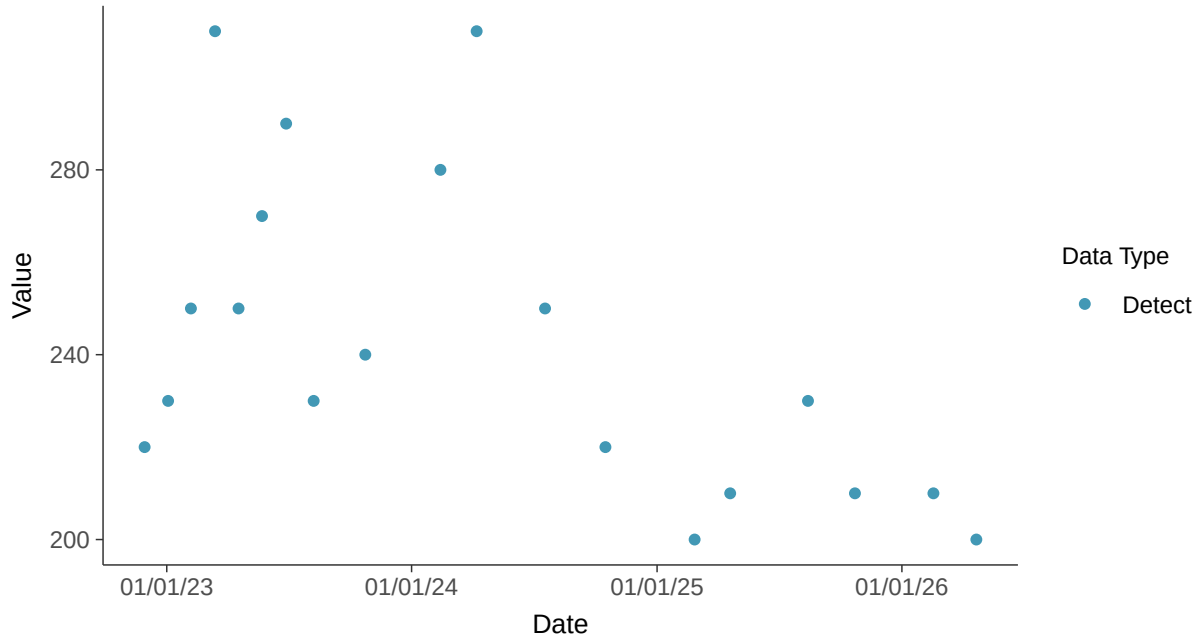


Appendix III: Calcium, MW-06

ID: 16_1_3_107

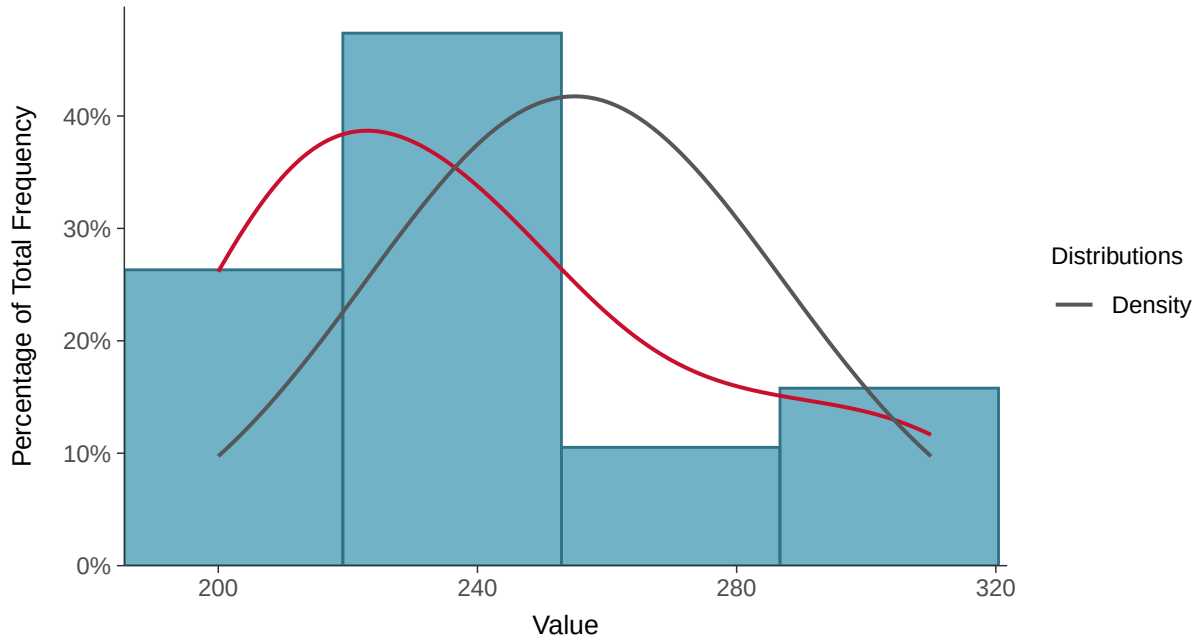
Scatter Plot

Calcium, MW-06 (mg/L)



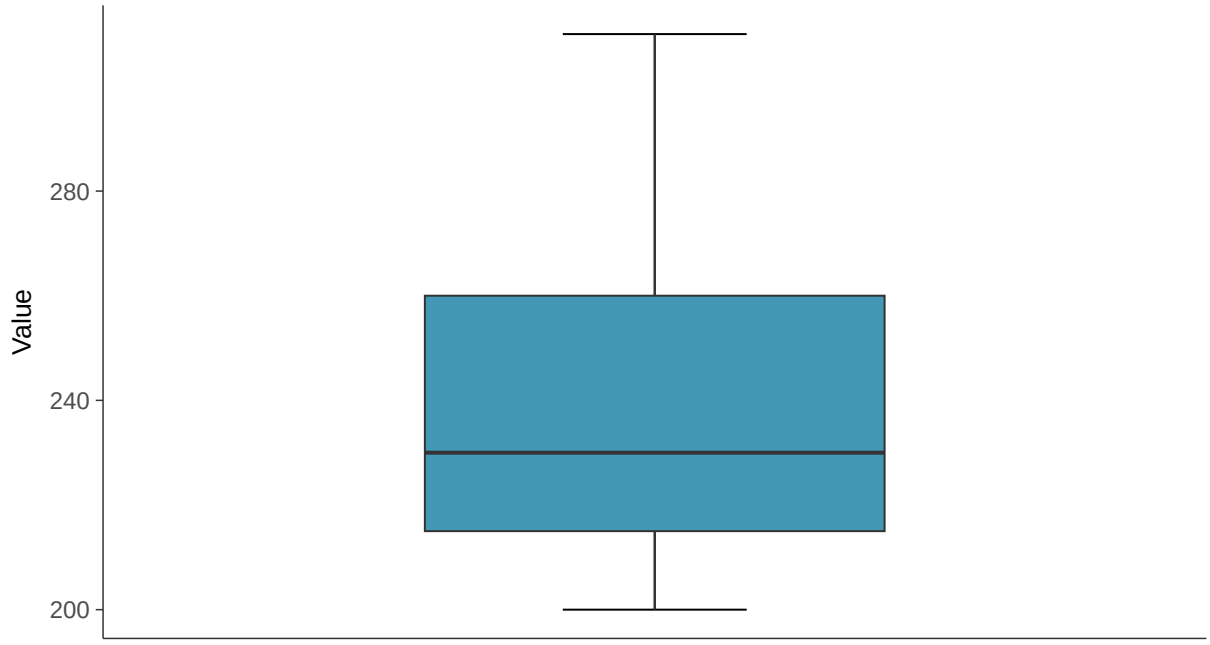
Histogram

Calcium, MW-06 (mg/L)



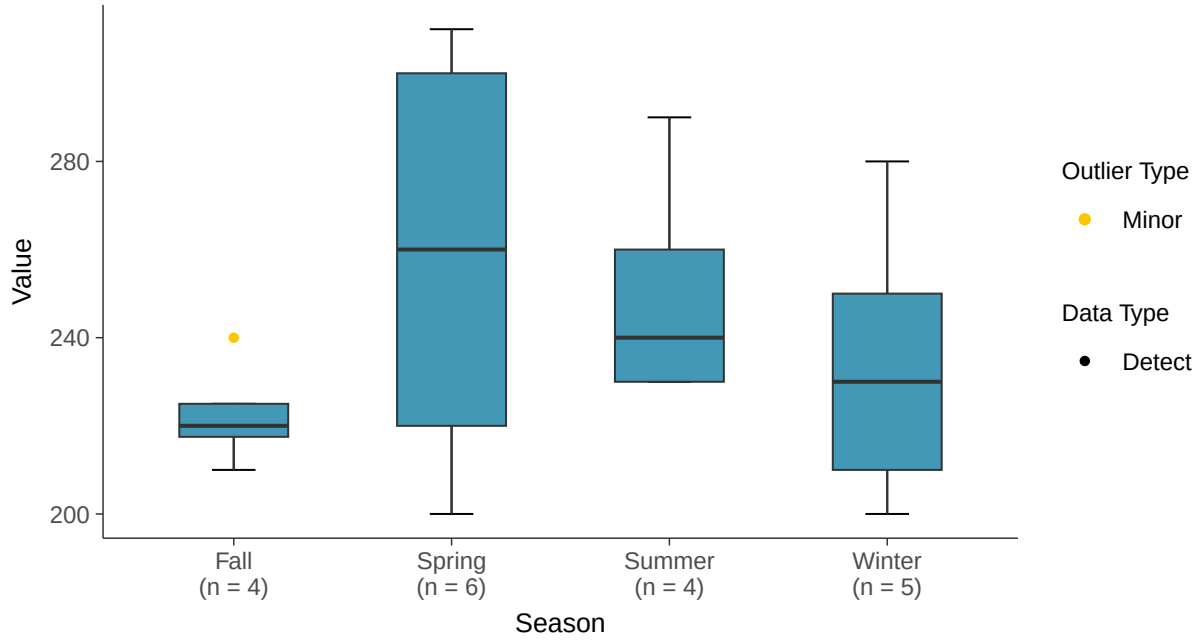
Boxplot

Calcium, MW-06 (mg/L)



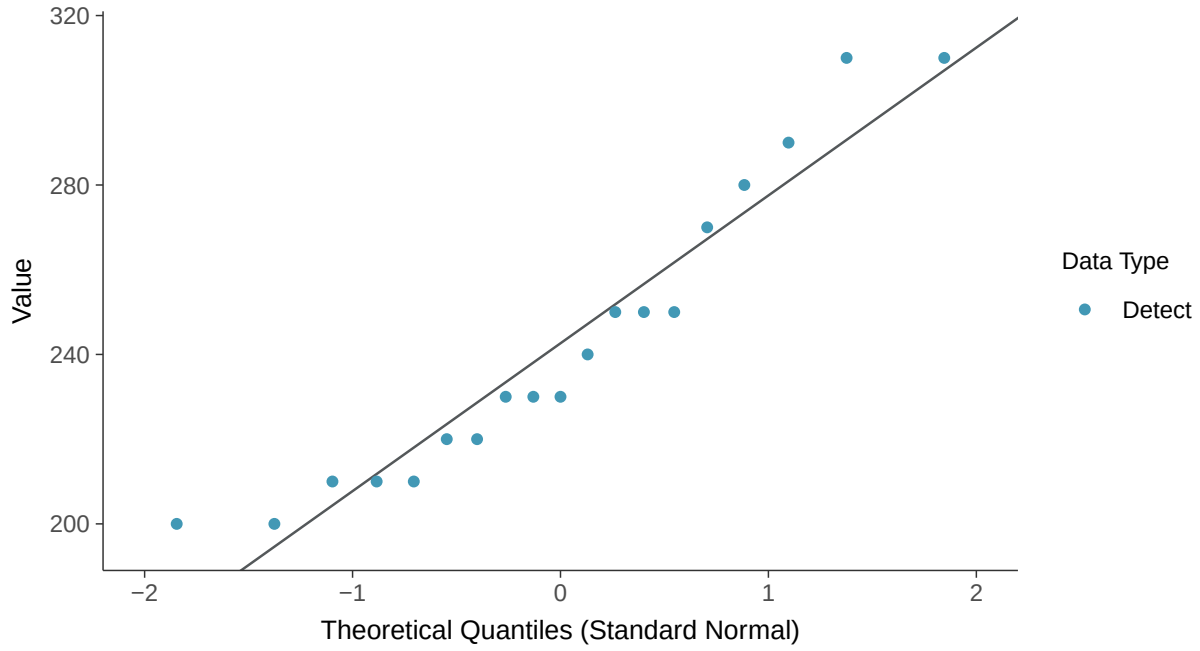
Boxplot by Season

Calcium, MW-06 (mg/L)



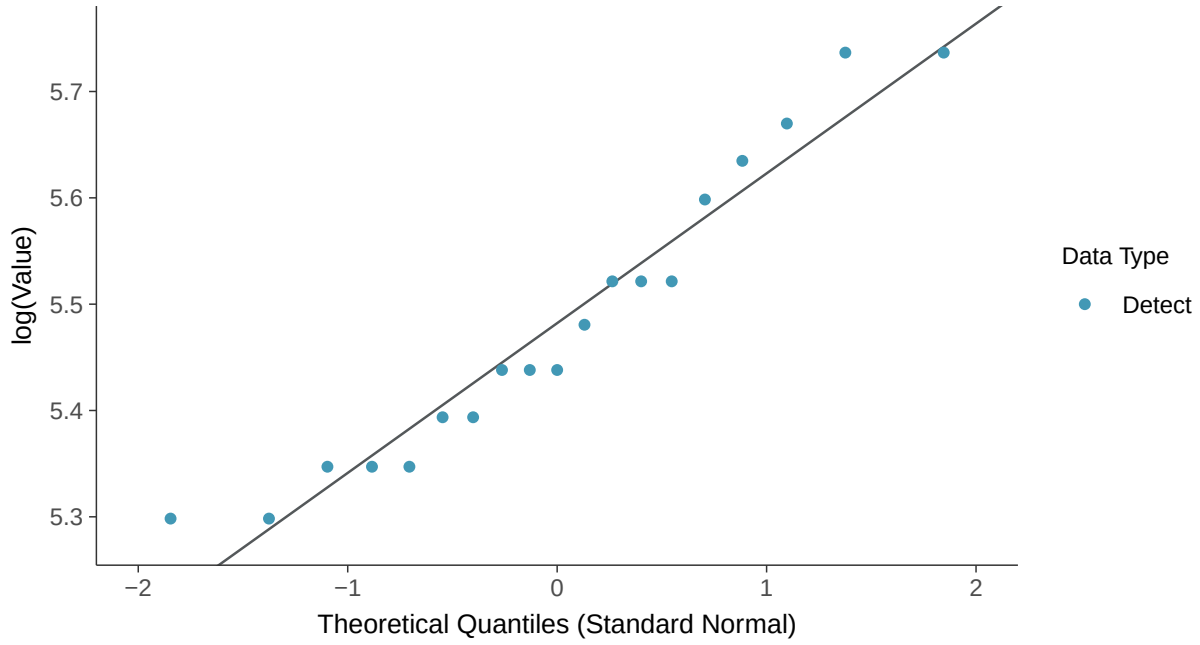
Normal Q-Q plot

Calcium, MW-06 (mg/L)



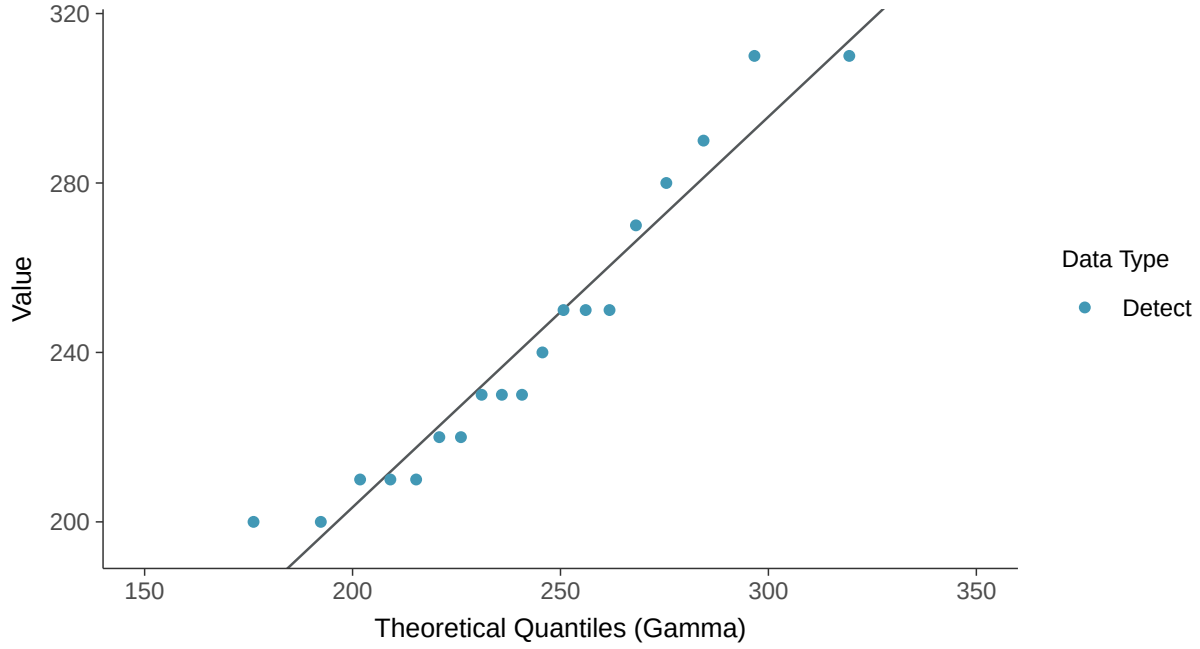
Lognormal Q-Q plot

Calcium, MW-06 (mg/L)



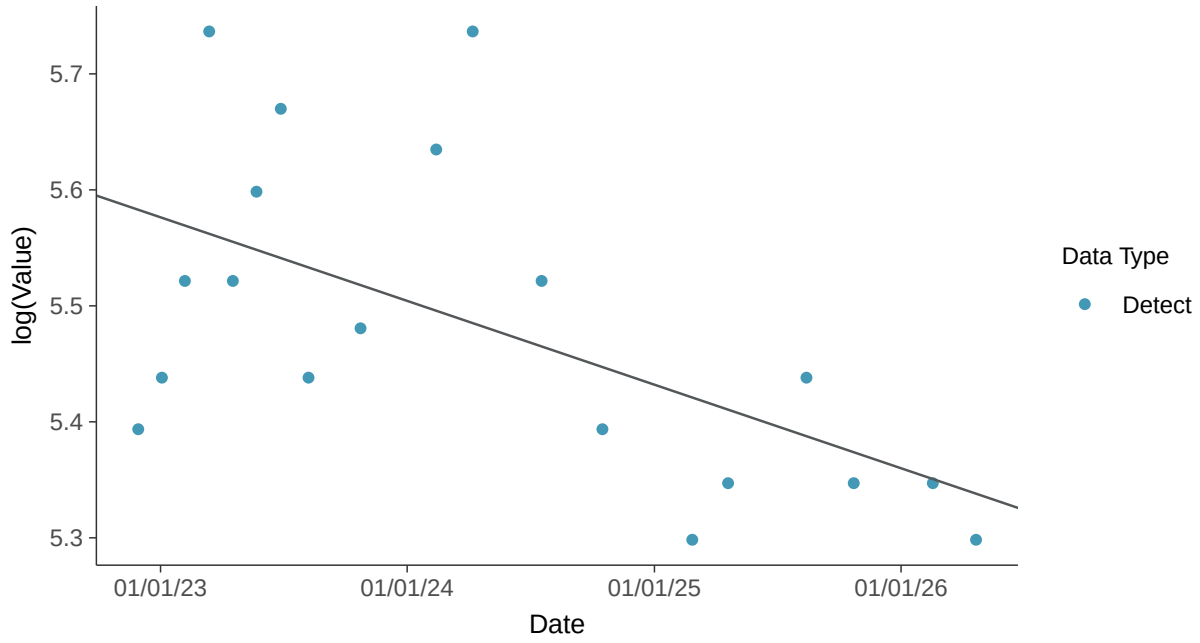
Gamma Q-Q plot

Calcium, MW-06 (mg/L)



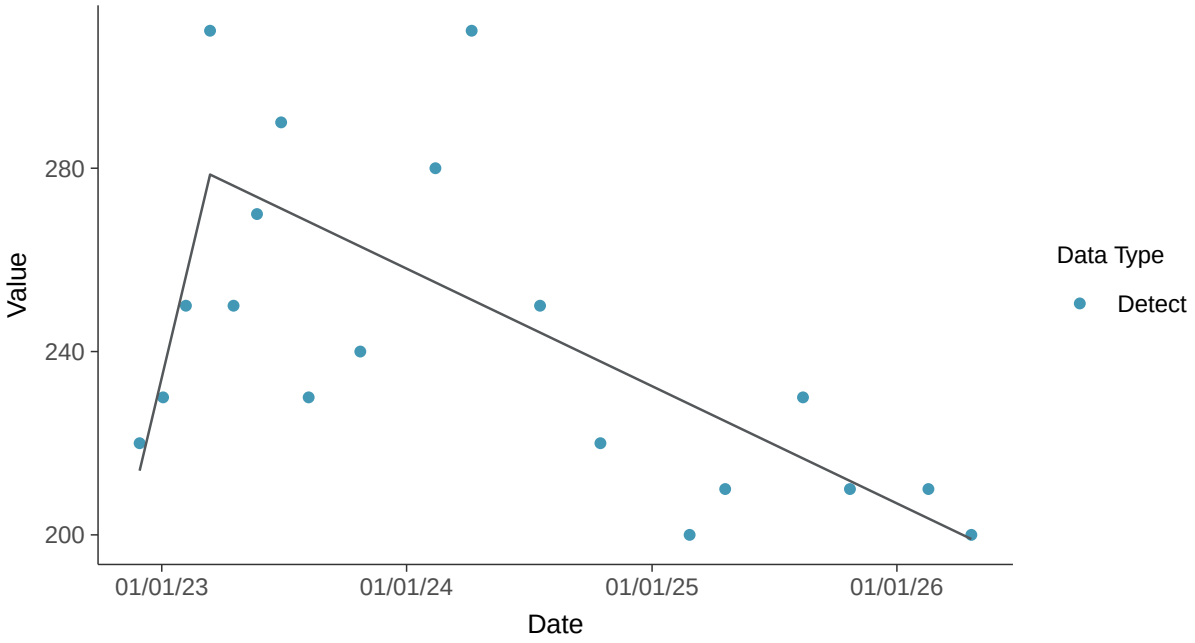
Trend Regression: Lognormal MLE

Calcium, MW-06 (mg/L)



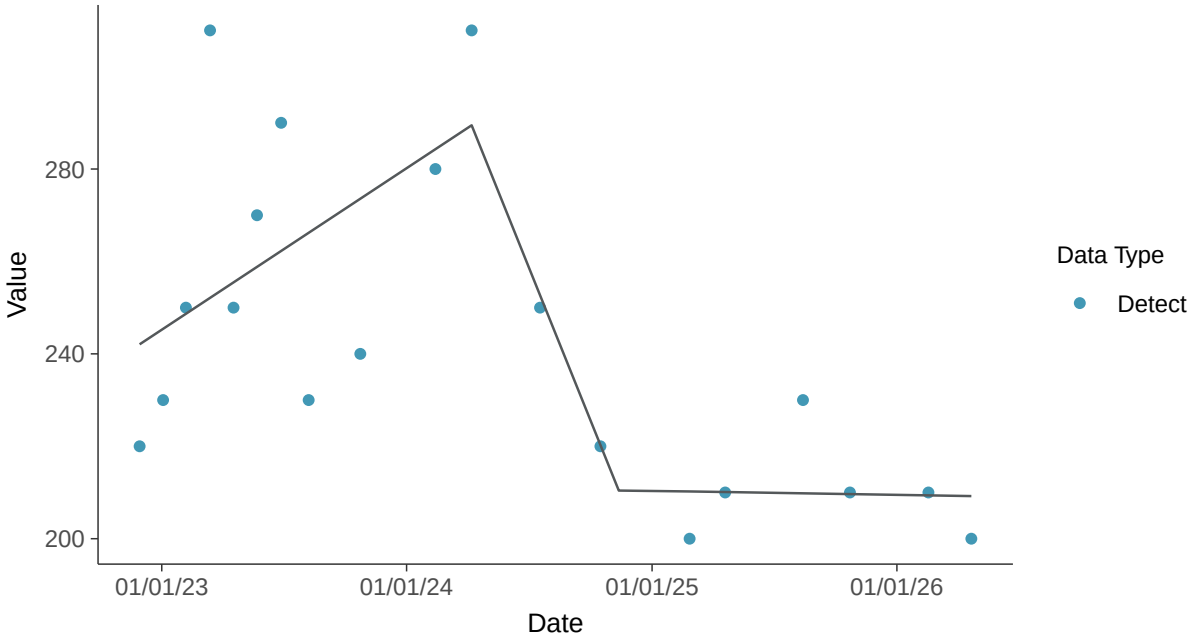
Trend Regression: Piecewise Linear-Linear

Calcium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-06 (mg/L)

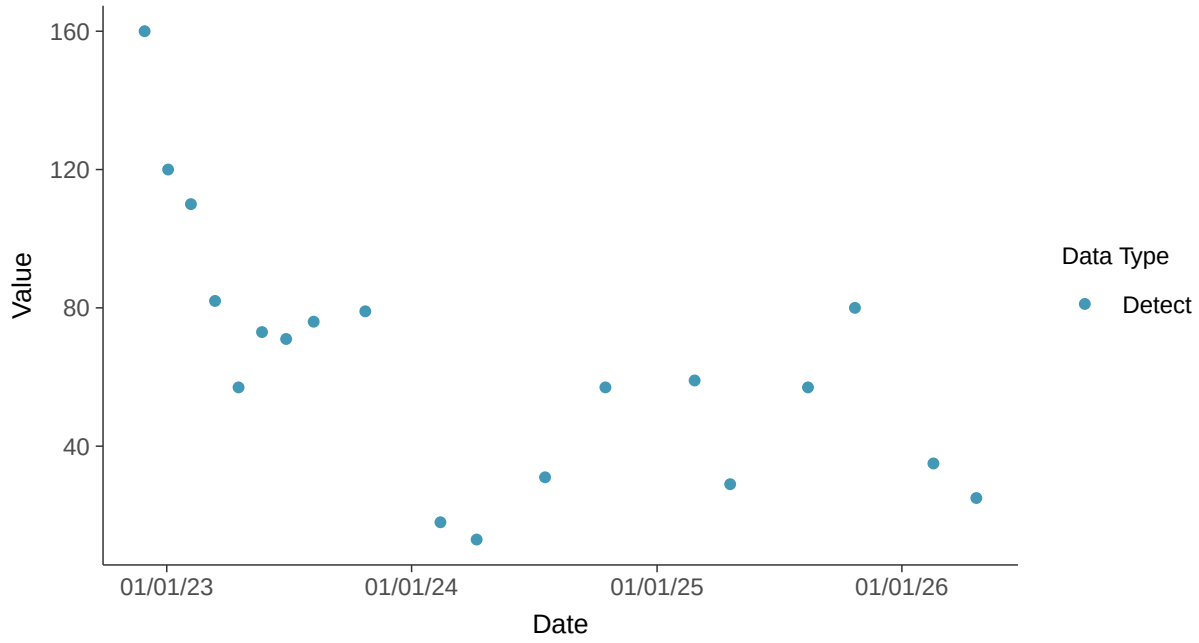


Appendix III: Chloride (as Cl), MW-06

ID: 16_1_3_108

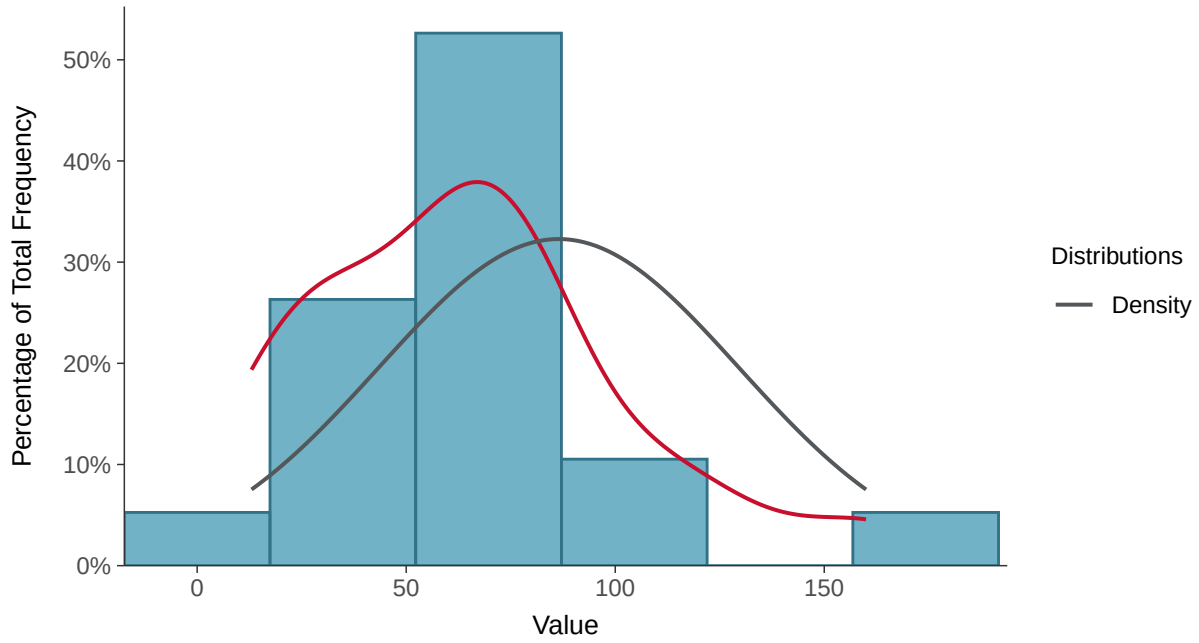
Scatter Plot

Chloride (as Cl), MW-06 (mg/L)



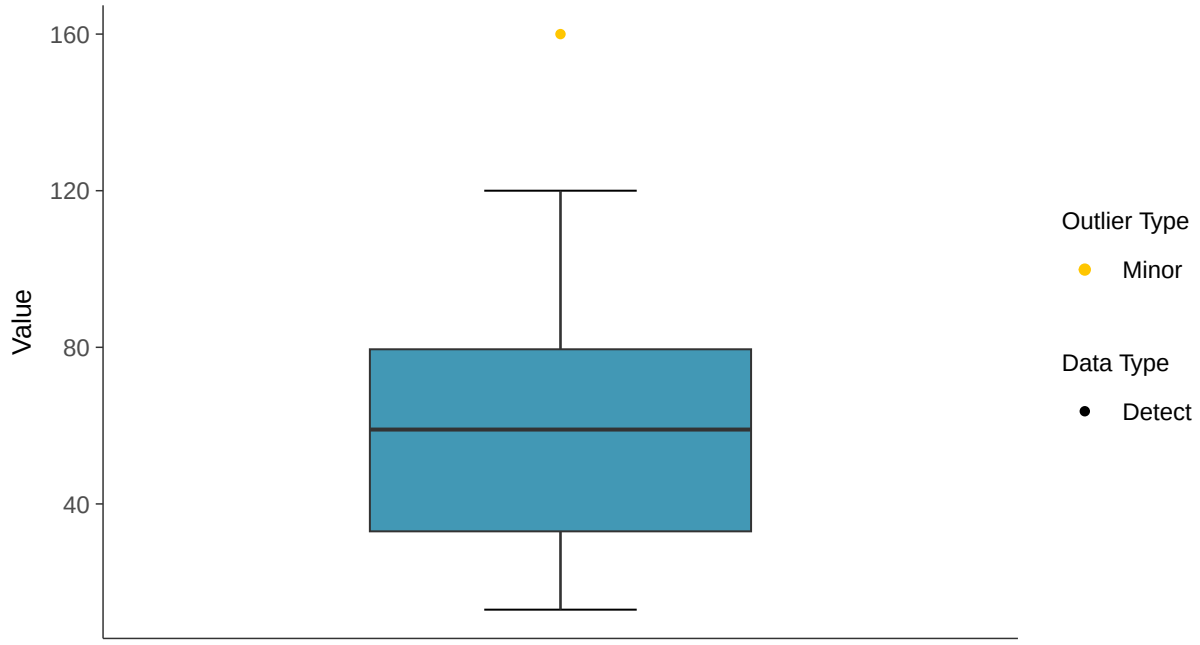
Histogram

Chloride (as Cl), MW-06 (mg/L)



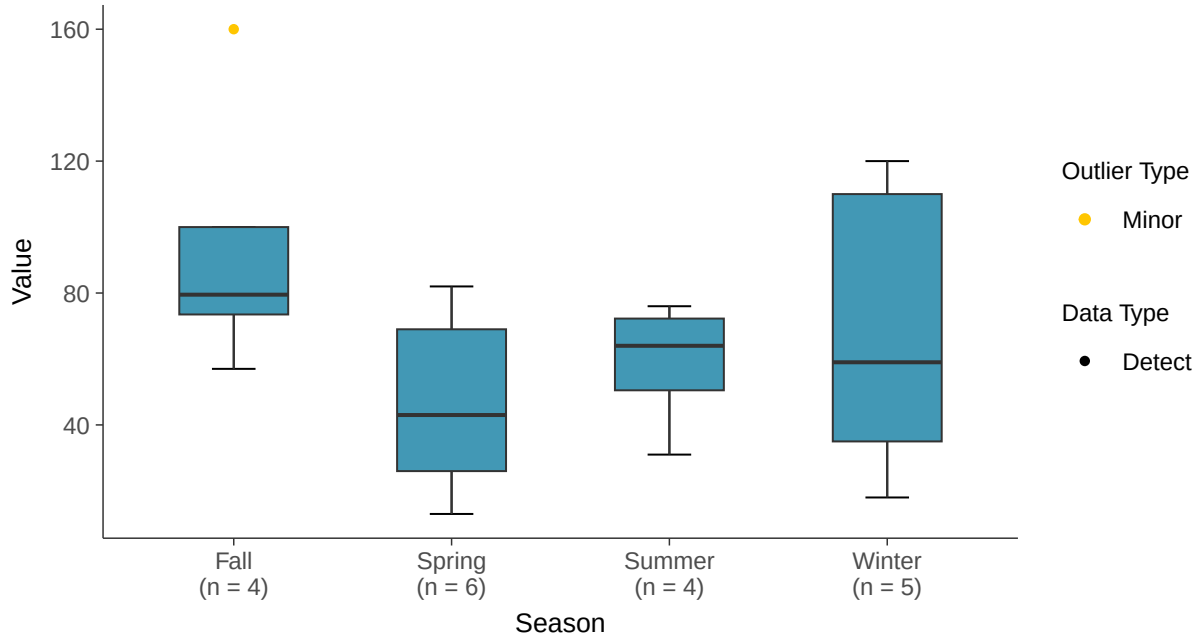
Boxplot

Chloride (as Cl), MW-06 (mg/L)



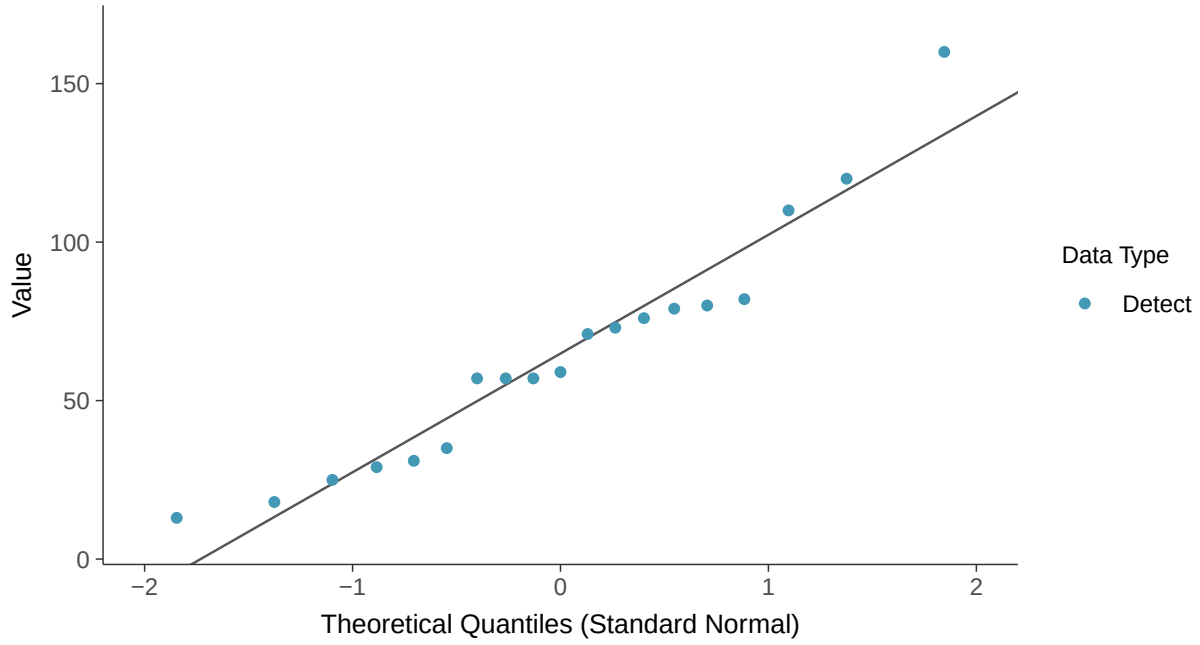
Boxplot by Season

Chloride (as Cl), MW-06 (mg/L)



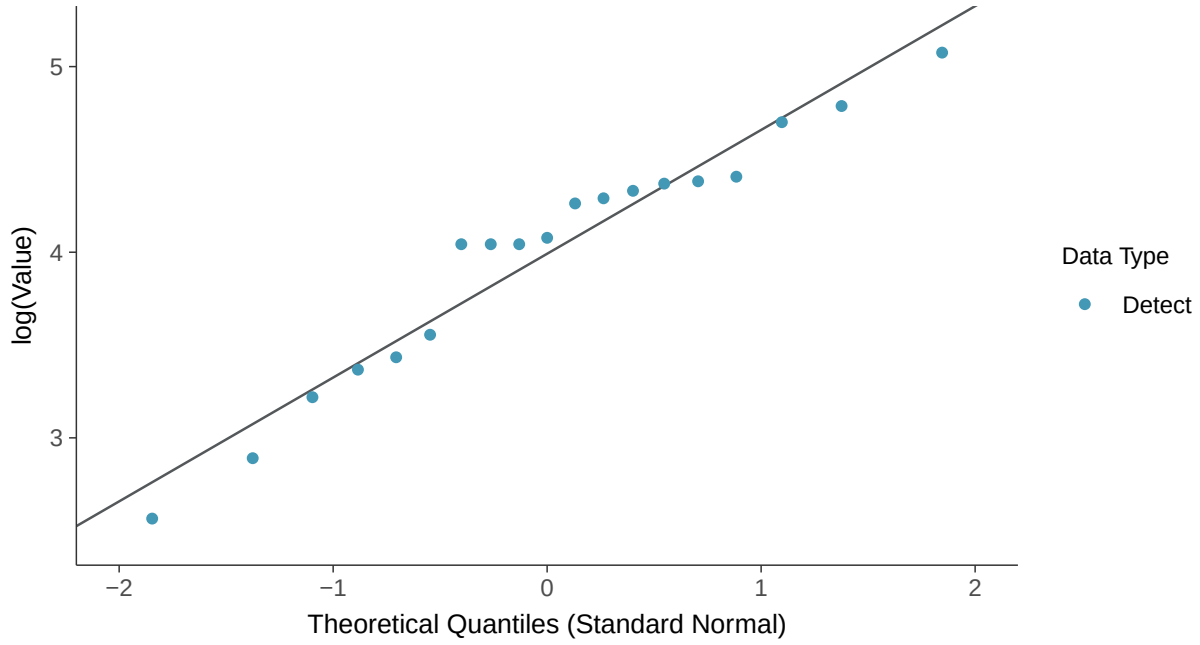
Normal Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



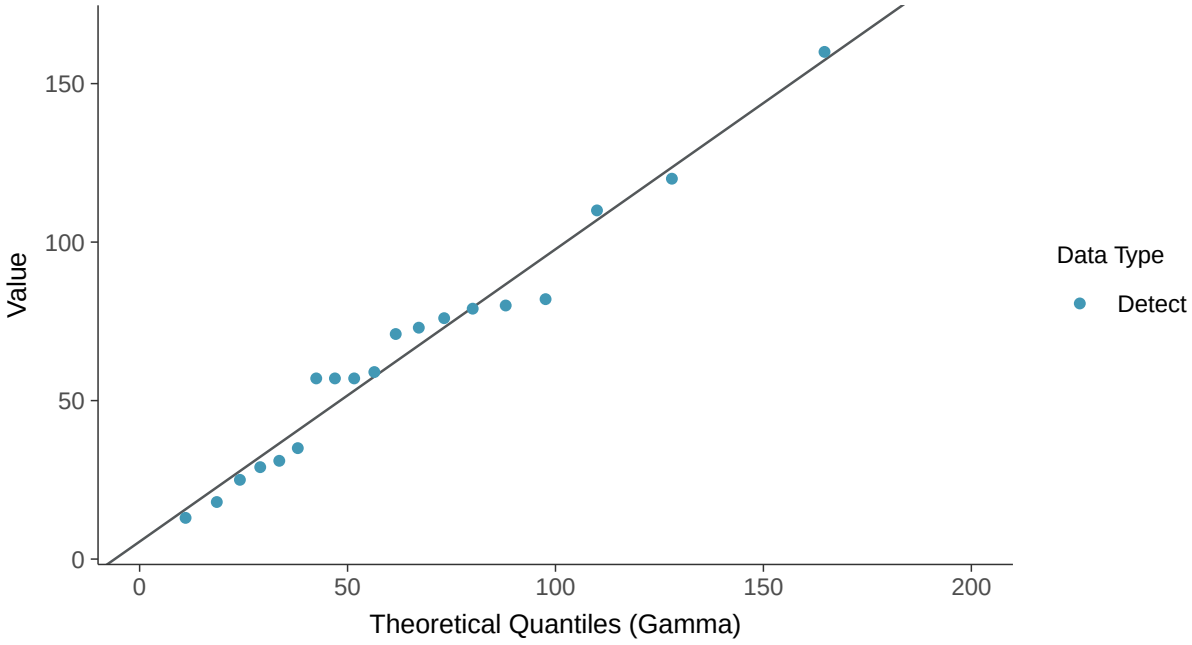
Lognormal Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



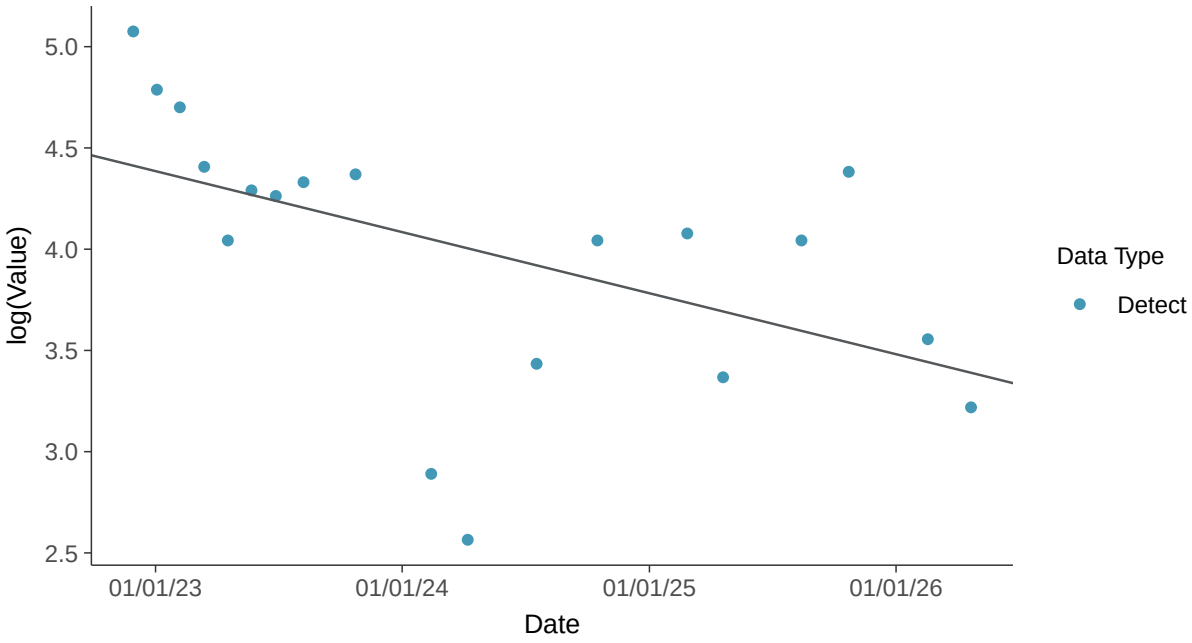
Gamma Q-Q plot

Chloride (as Cl), MW-06 (mg/L)



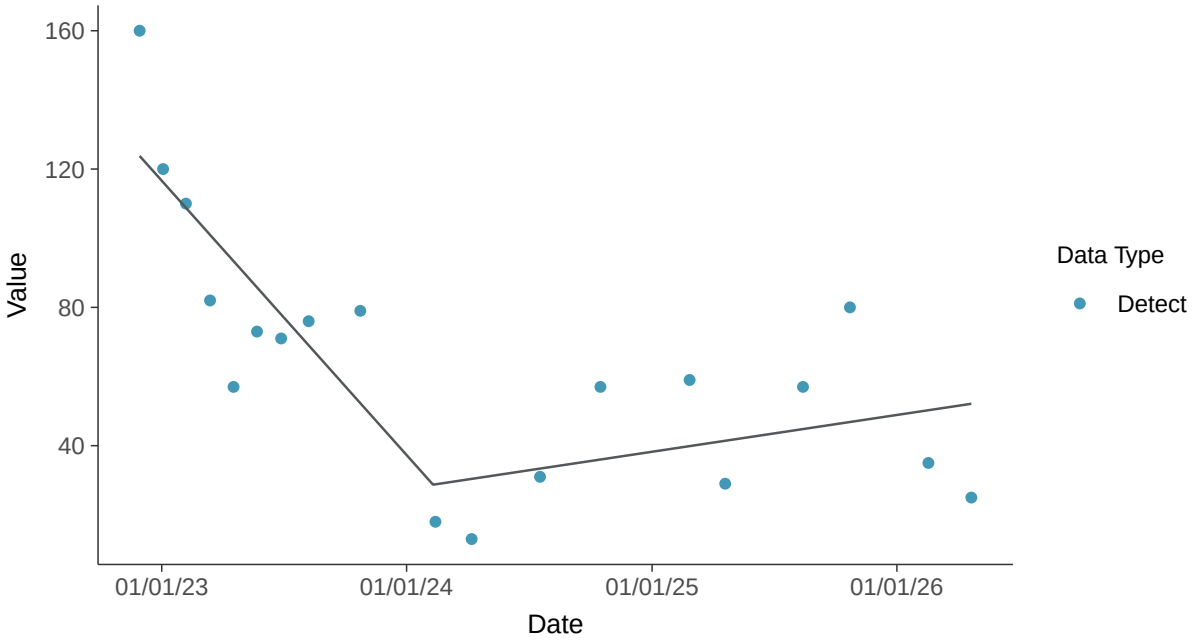
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-06 (mg/L)



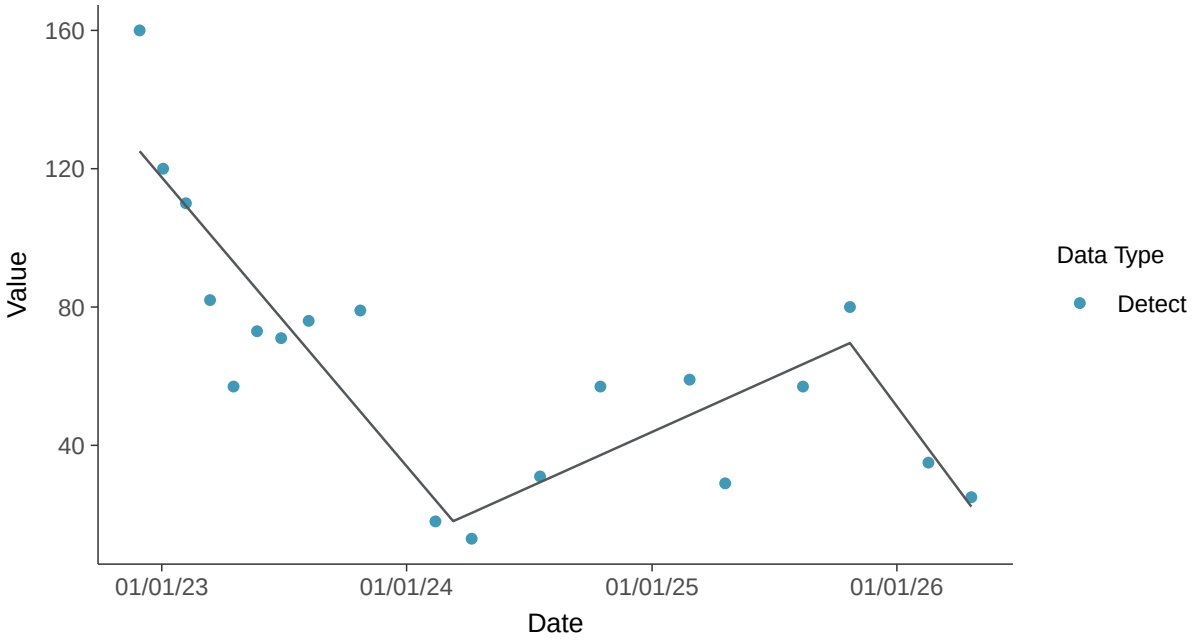
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-06 (mg/L)

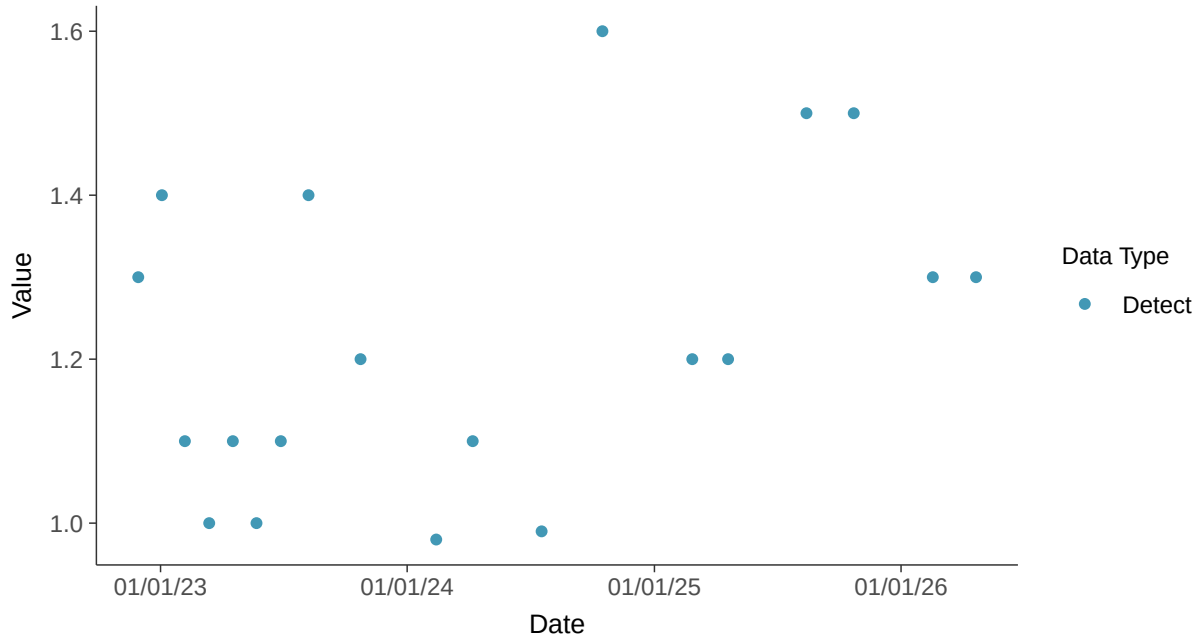


Appendix III: Fluoride, MW-06

ID: 16_1_3_112

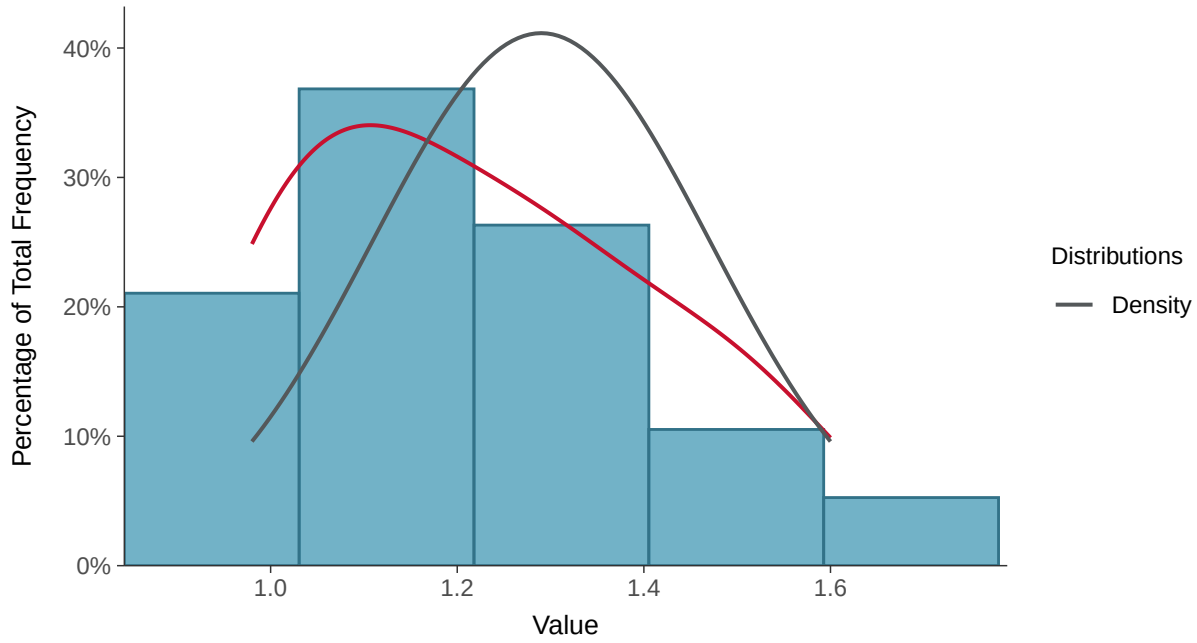
Scatter Plot

Fluoride, MW-06 (mg/L)



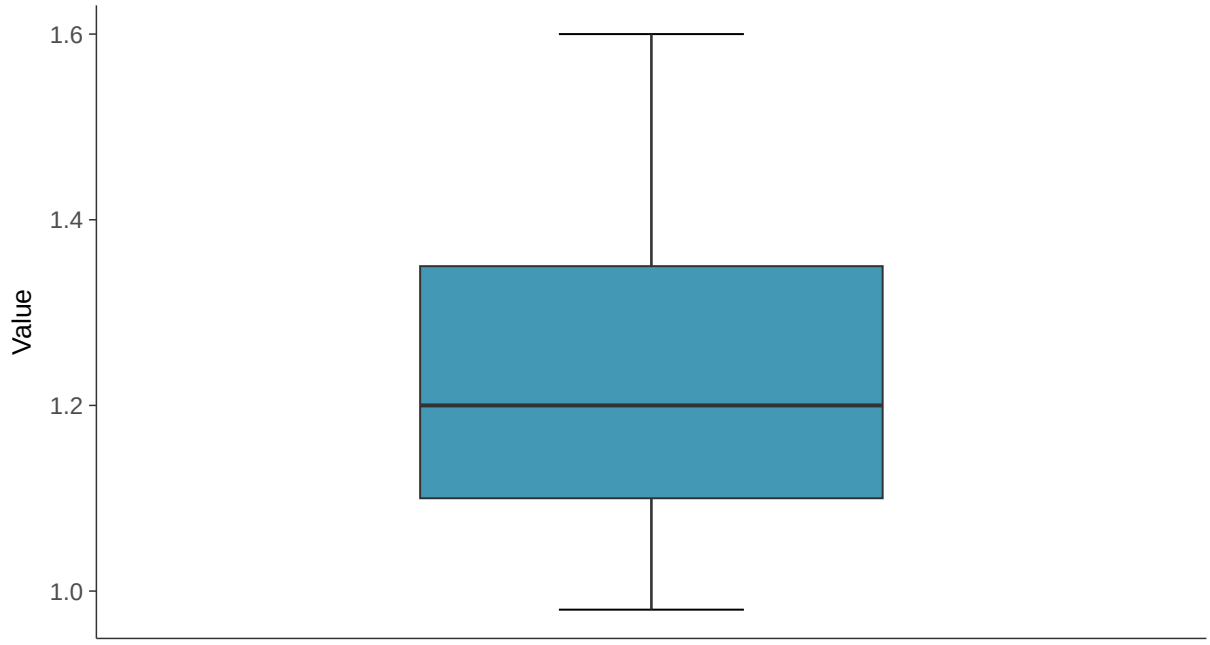
Histogram

Fluoride, MW-06 (mg/L)



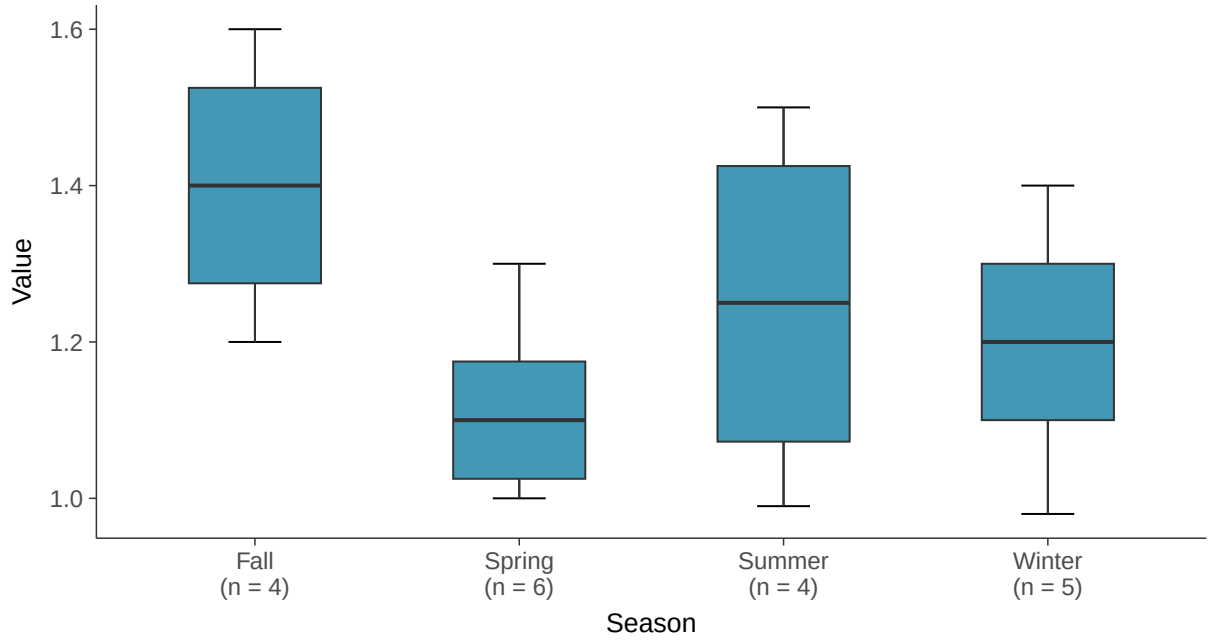
Boxplot

Fluoride, MW-06 (mg/L)



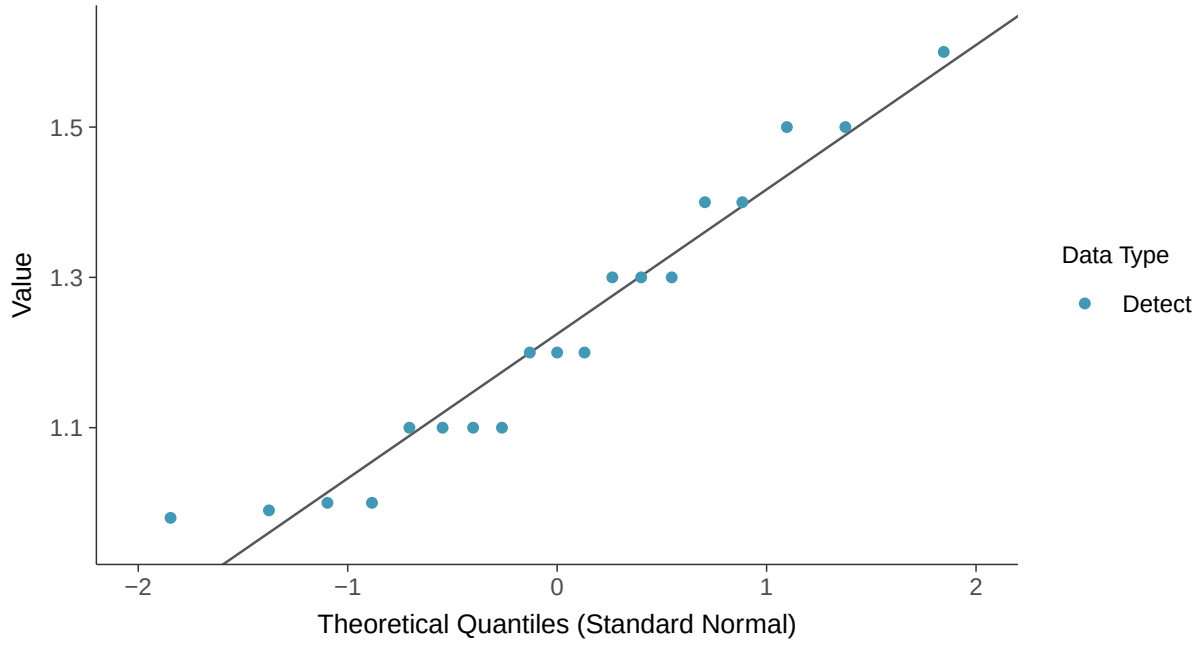
Boxplot by Season

Fluoride, MW-06 (mg/L)



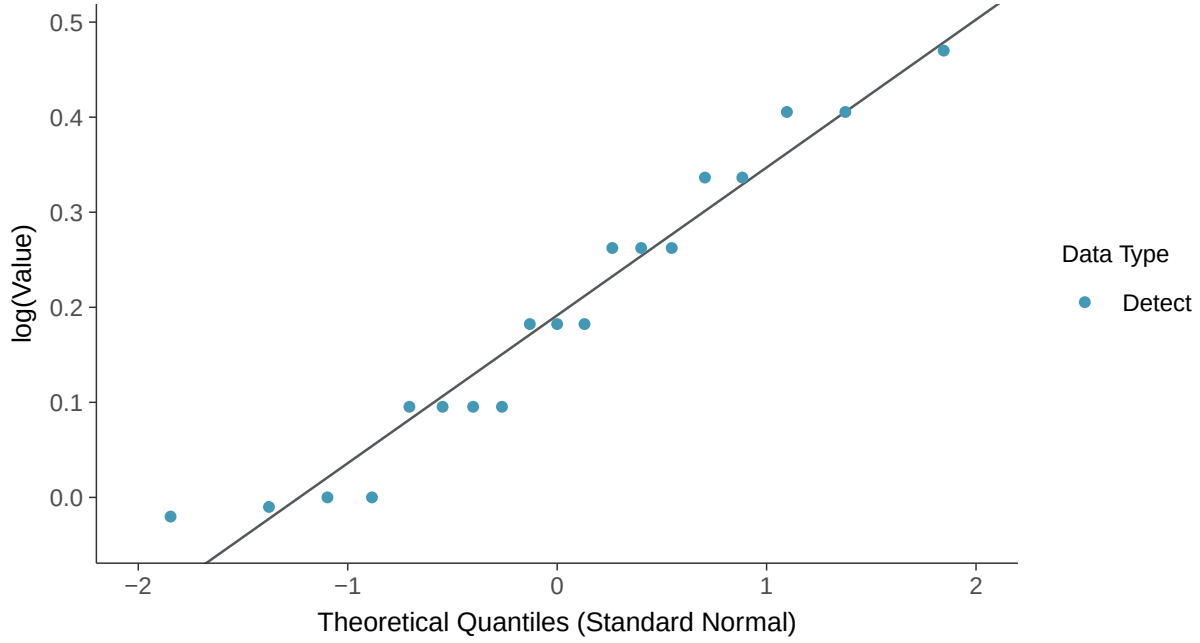
Normal Q-Q plot

Fluoride, MW-06 (mg/L)



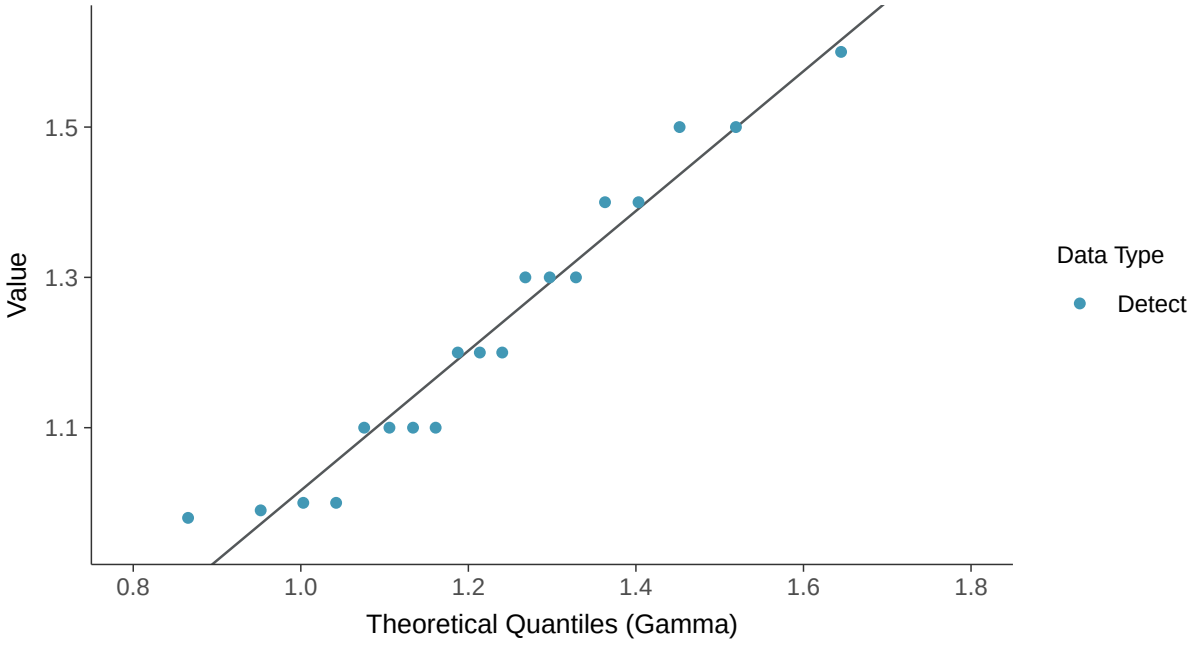
Lognormal Q-Q plot

Fluoride, MW-06 (mg/L)



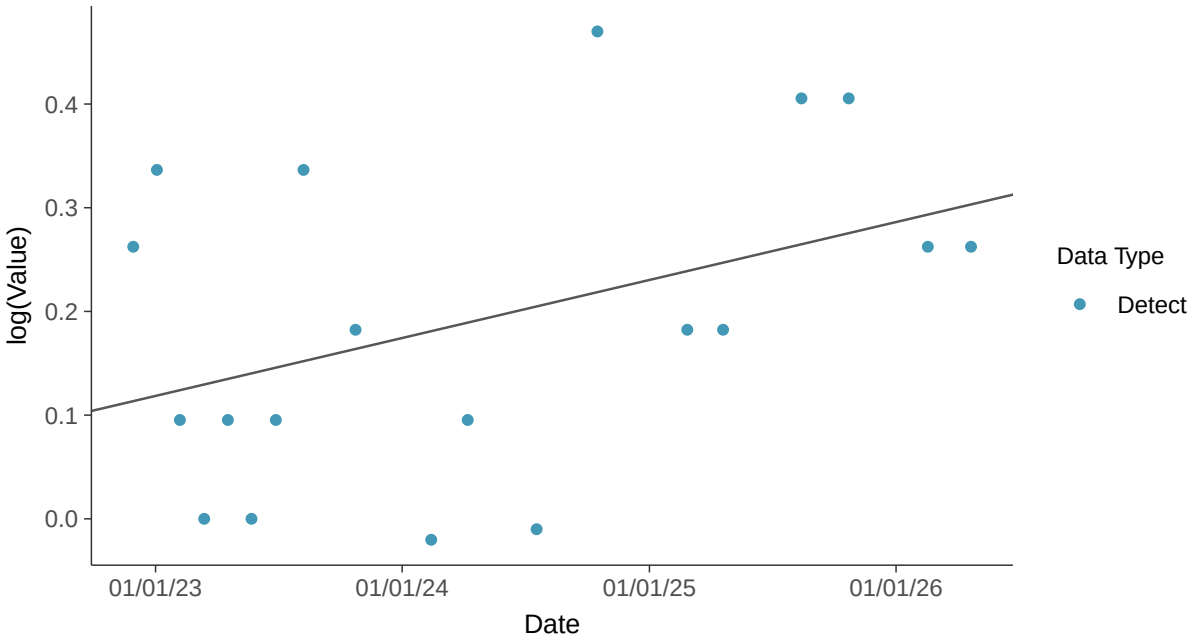
Gamma Q-Q plot

Fluoride, MW-06 (mg/L)



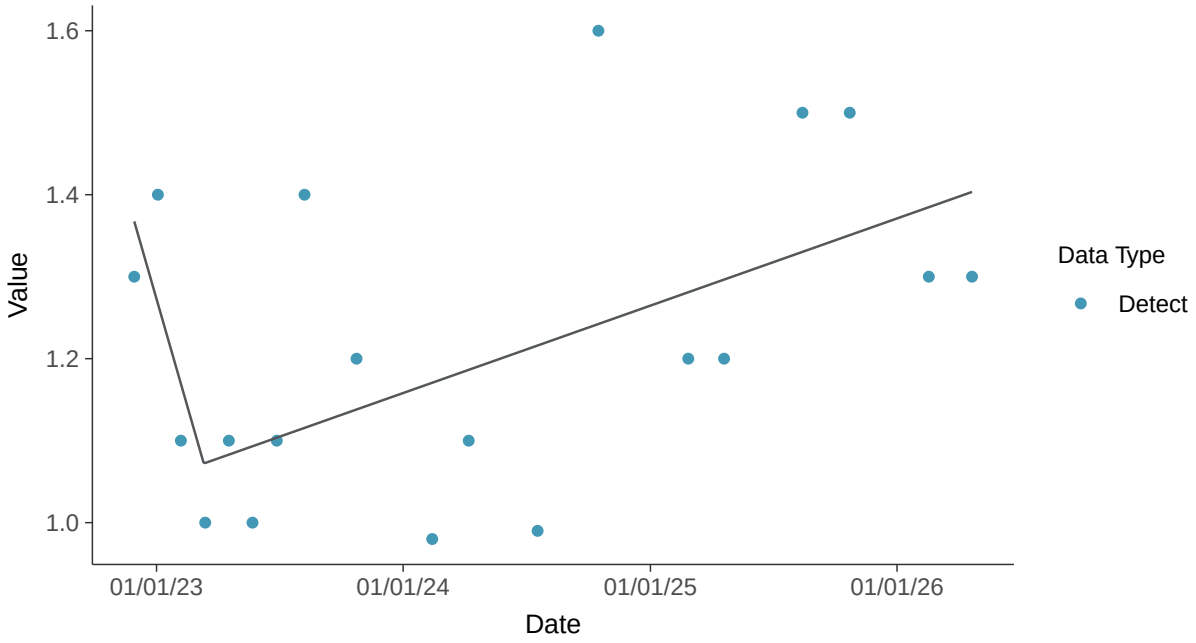
Trend Regression: Lognormal MLE

Fluoride, MW-06 (mg/L)



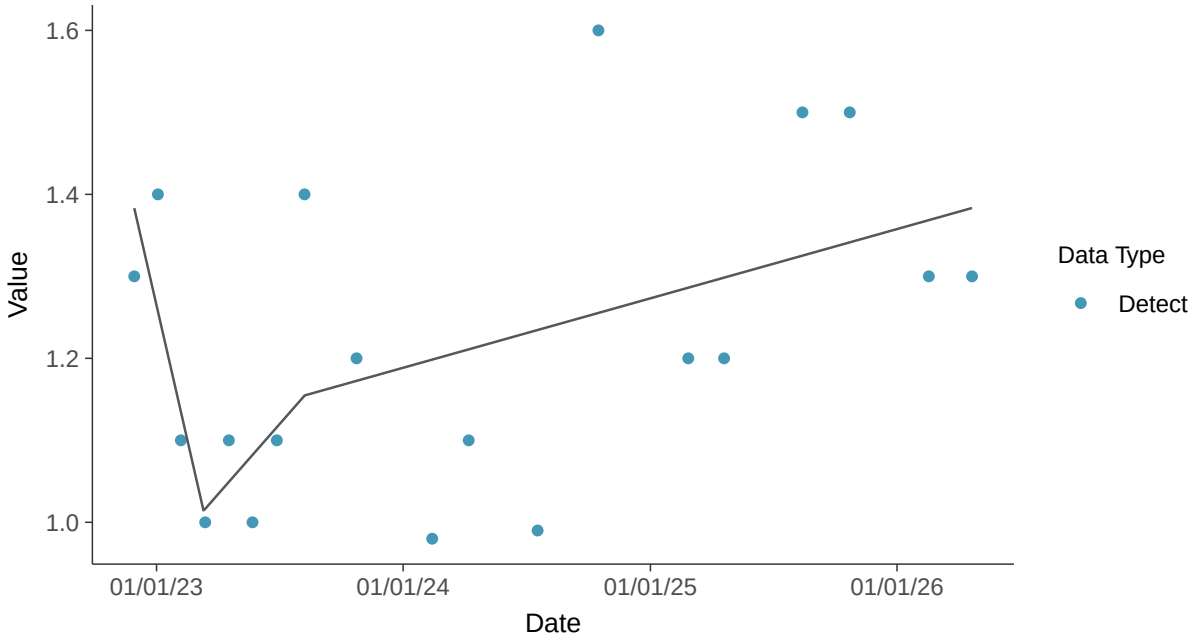
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-06 (mg/L)

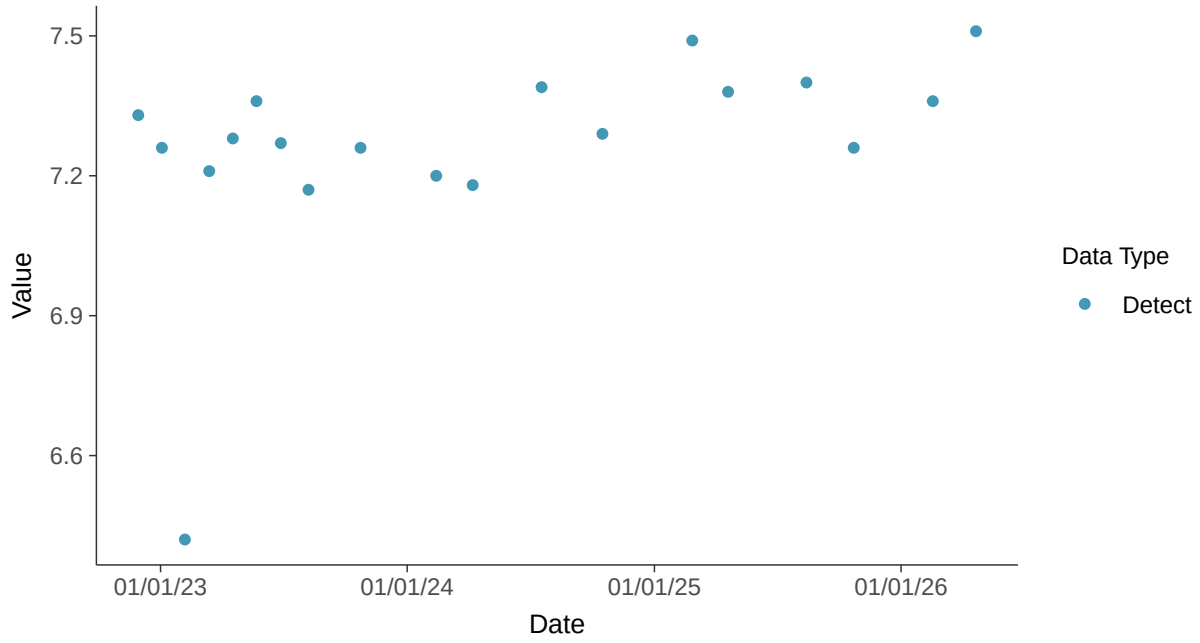


Appendix III: pH (field), MW-06

ID: 16_1_3_120

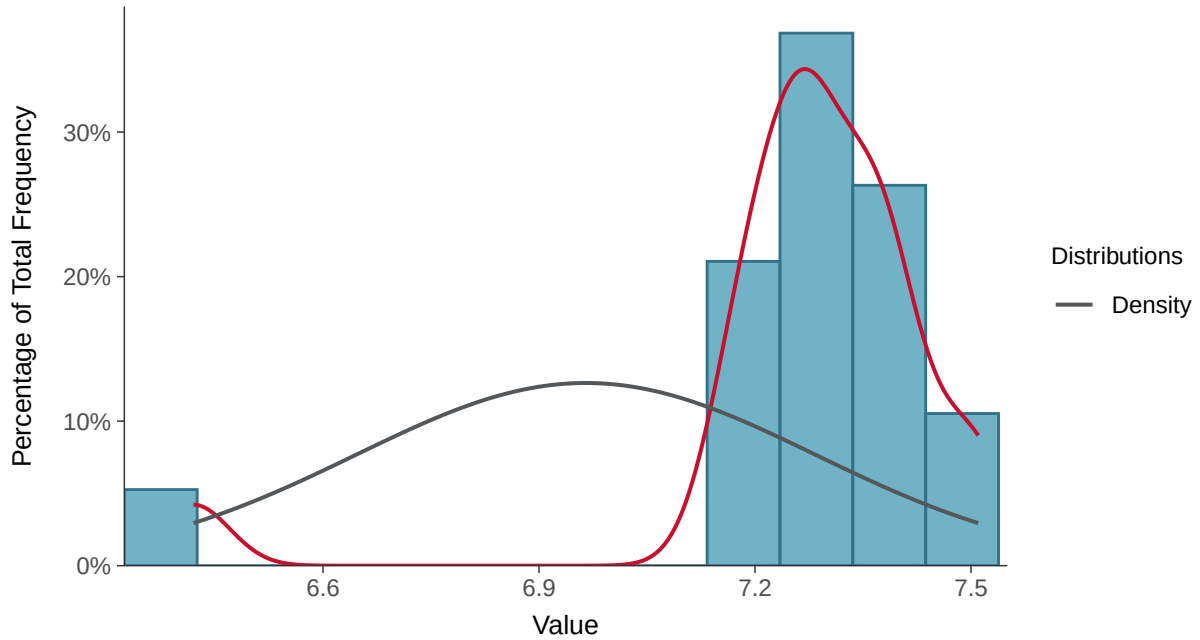
Scatter Plot

pH (field), MW-06 (su)



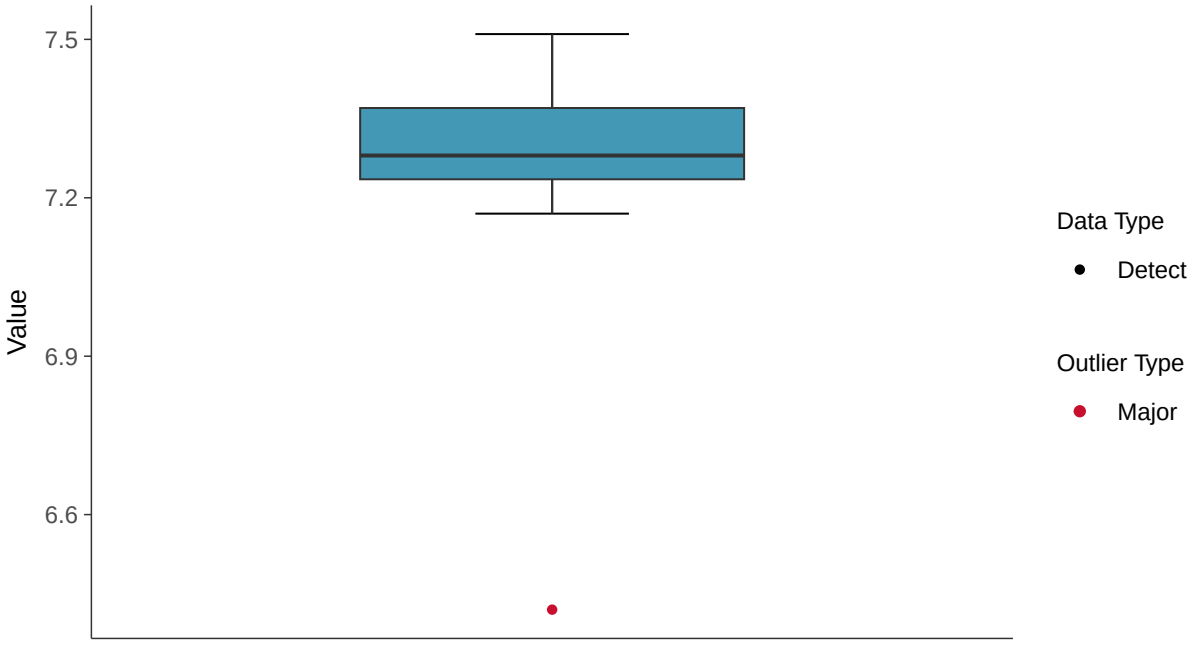
Histogram

pH (field), MW-06 (su)



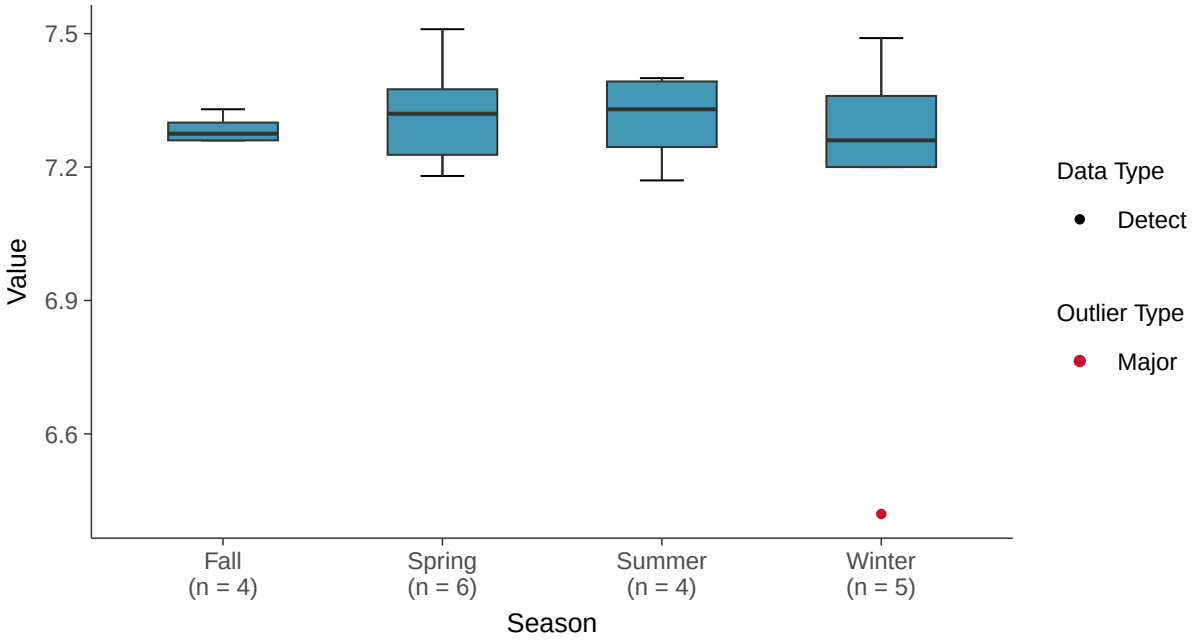
Boxplot

pH (field), MW-06 (su)



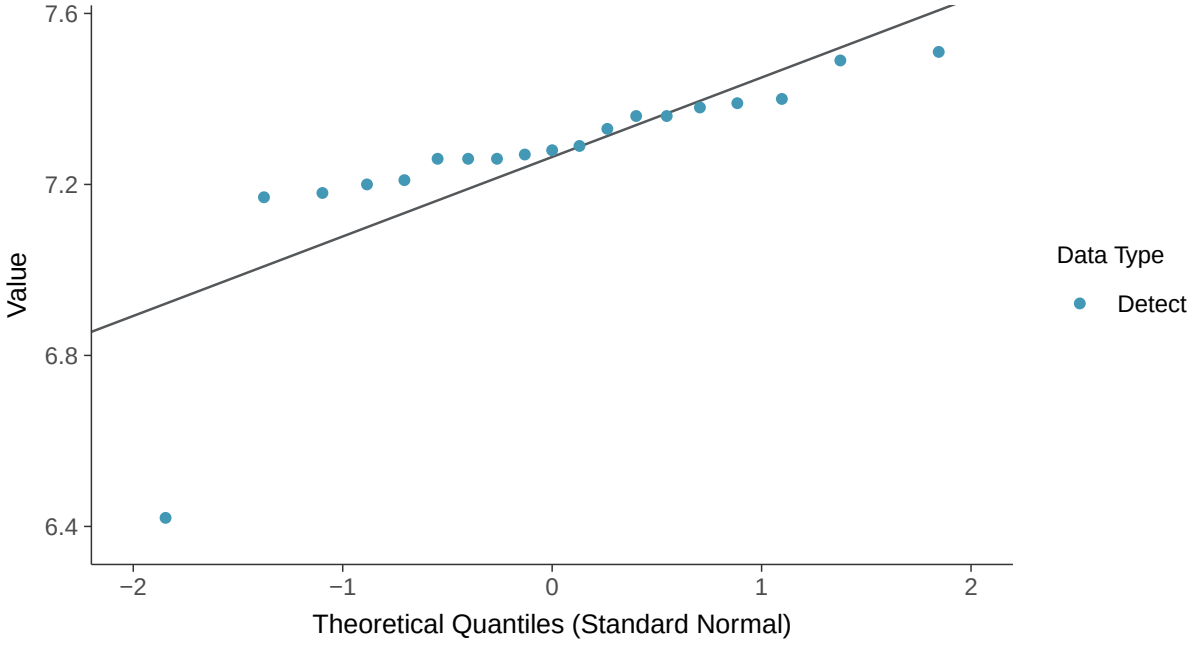
Boxplot by Season

pH (field), MW-06 (su)



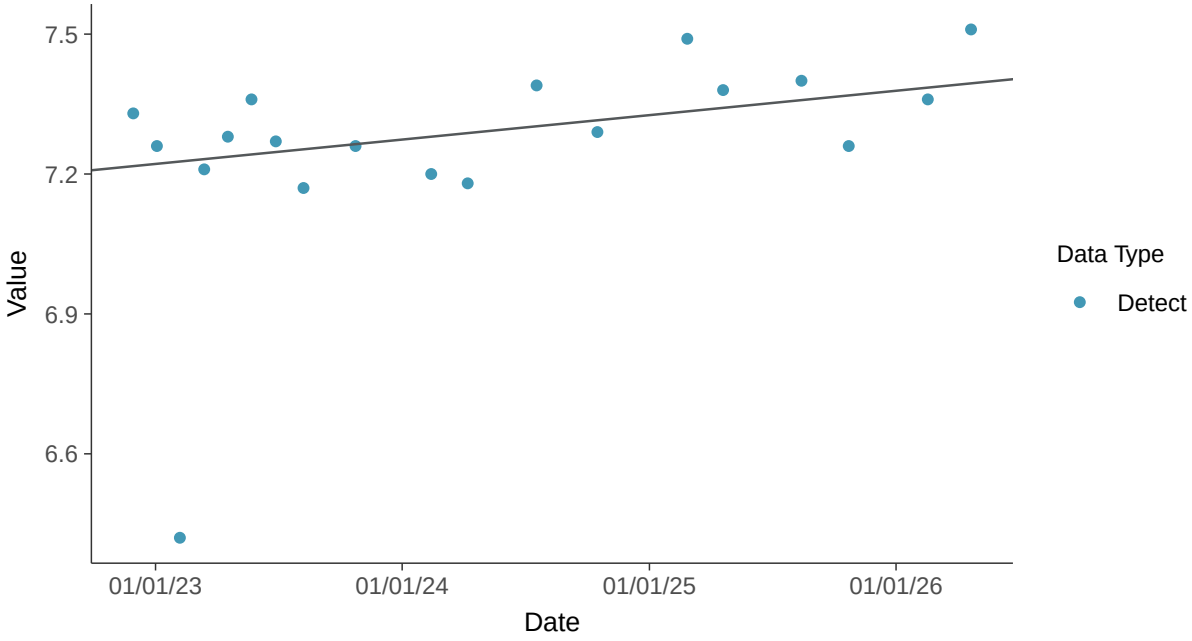
Normal Q-Q plot

pH (field), MW-06 (su)



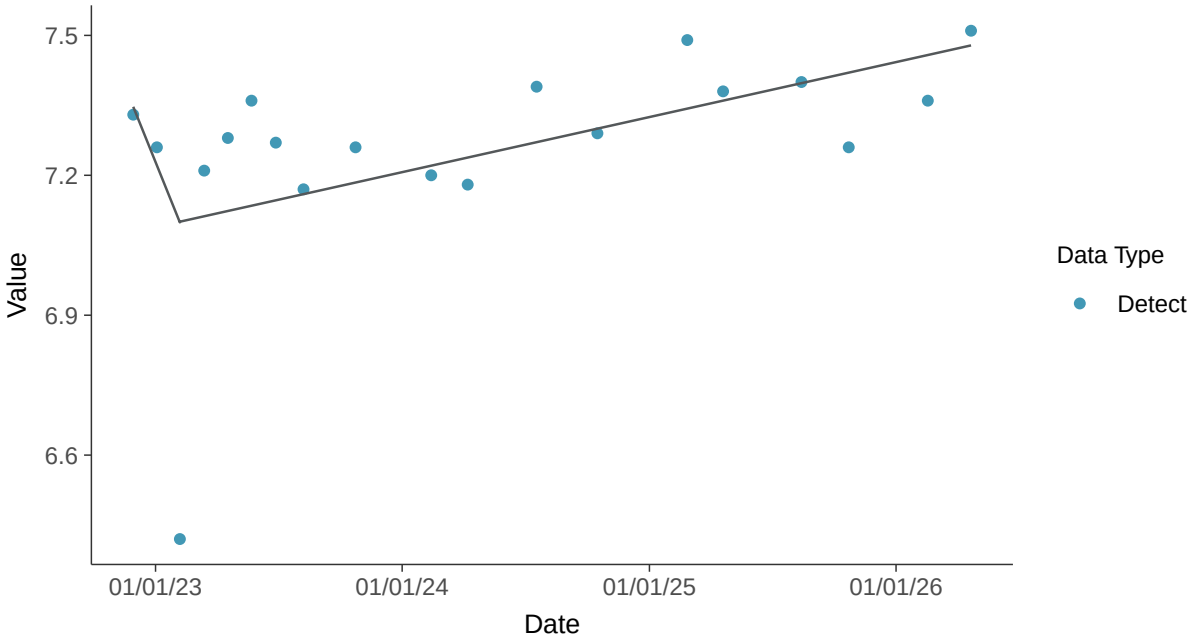
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-06 (su)



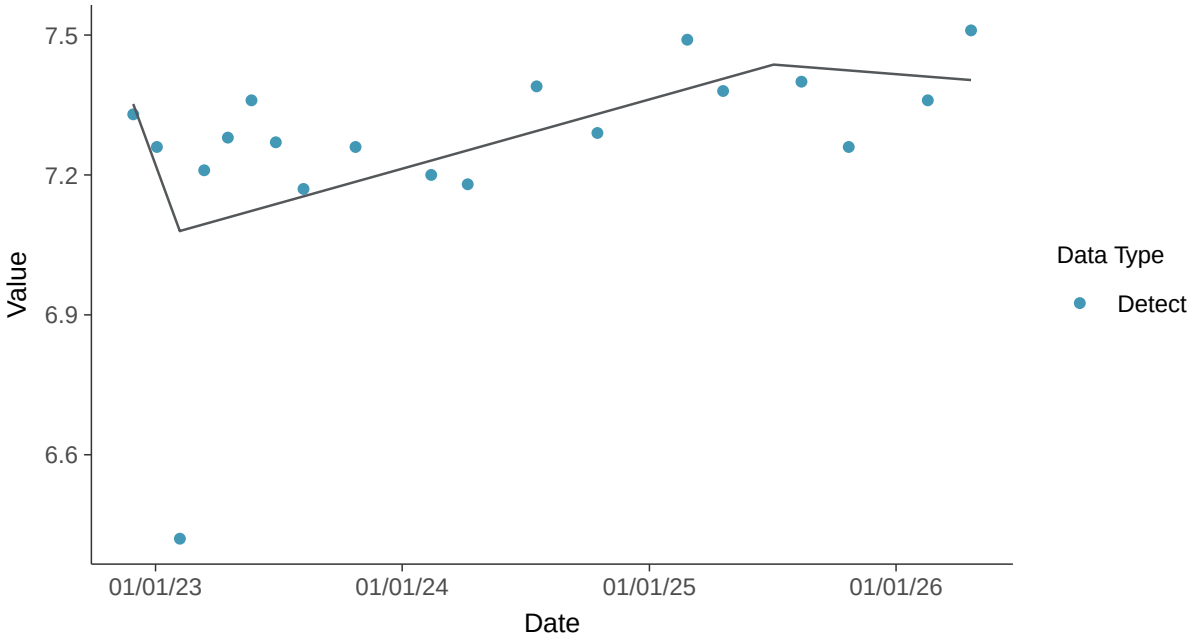
Trend Regression: Piecewise Linear-Linear

pH (field), MW-06 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-06 (su)

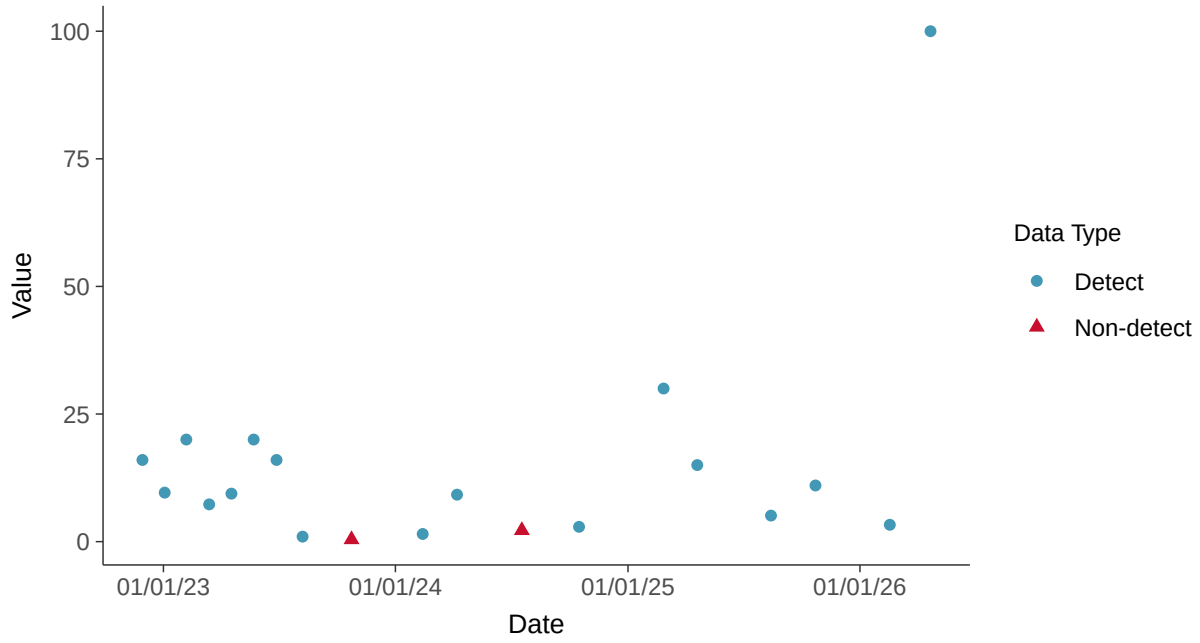


Appendix III: Sulfate (as SO4), MW-06

ID: 16_1_3_124

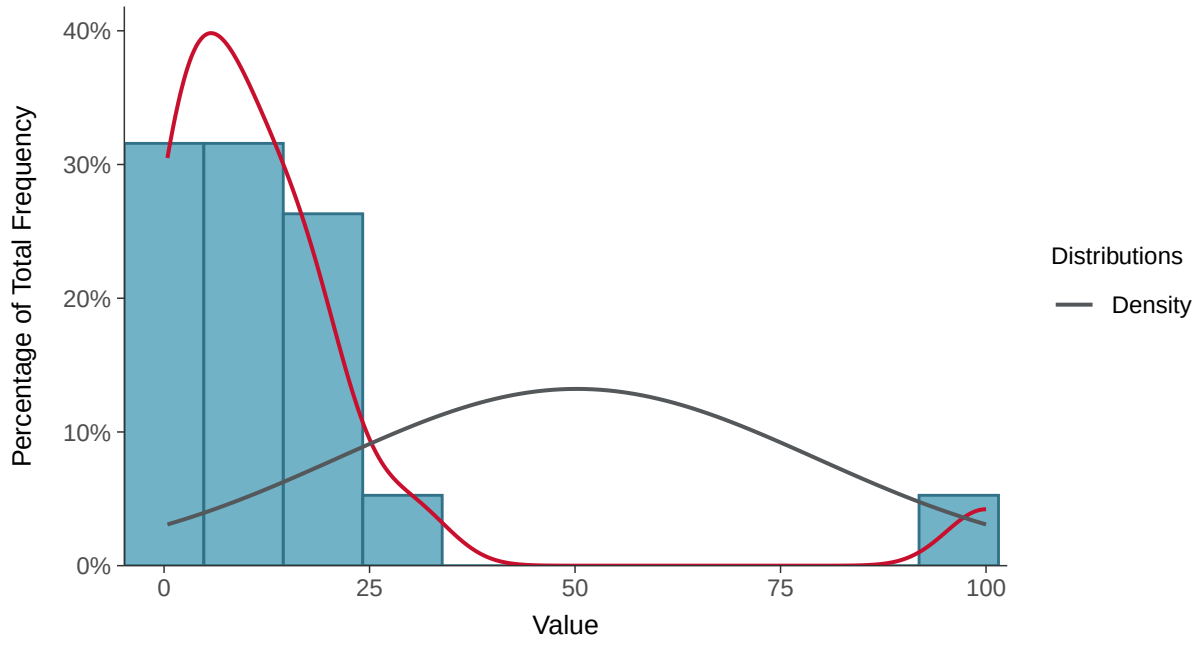
Scatter Plot

Sulfate (as SO4), MW-06 (mg/L)



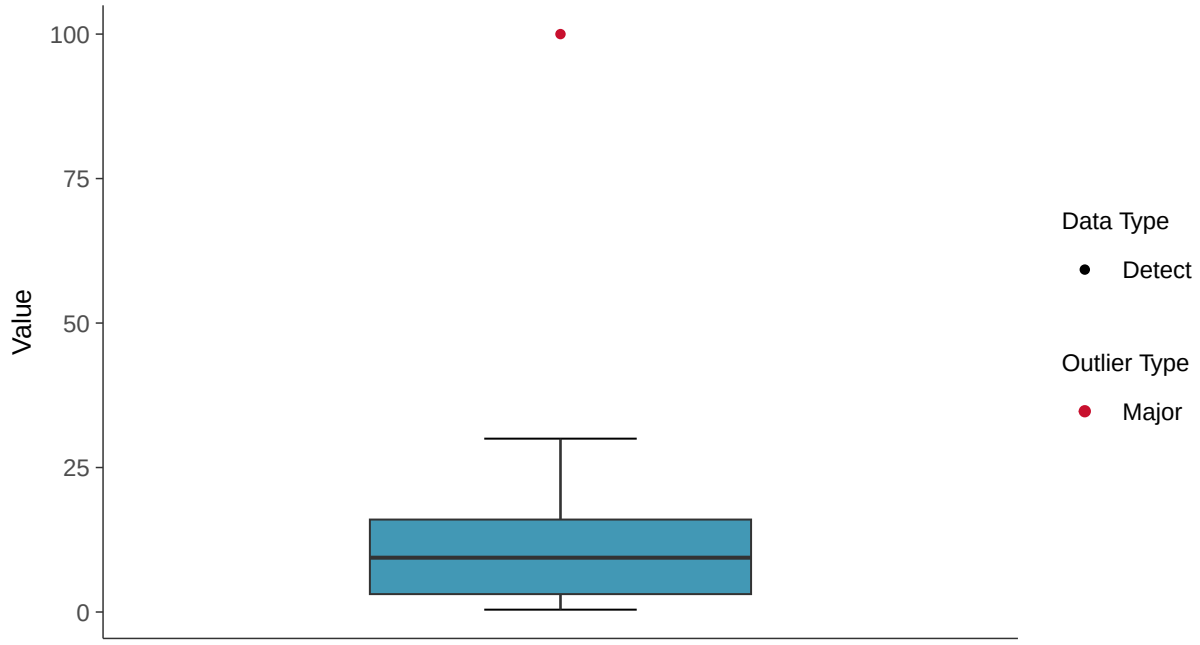
Histogram

Sulfate (as SO4), MW-06 (mg/L)



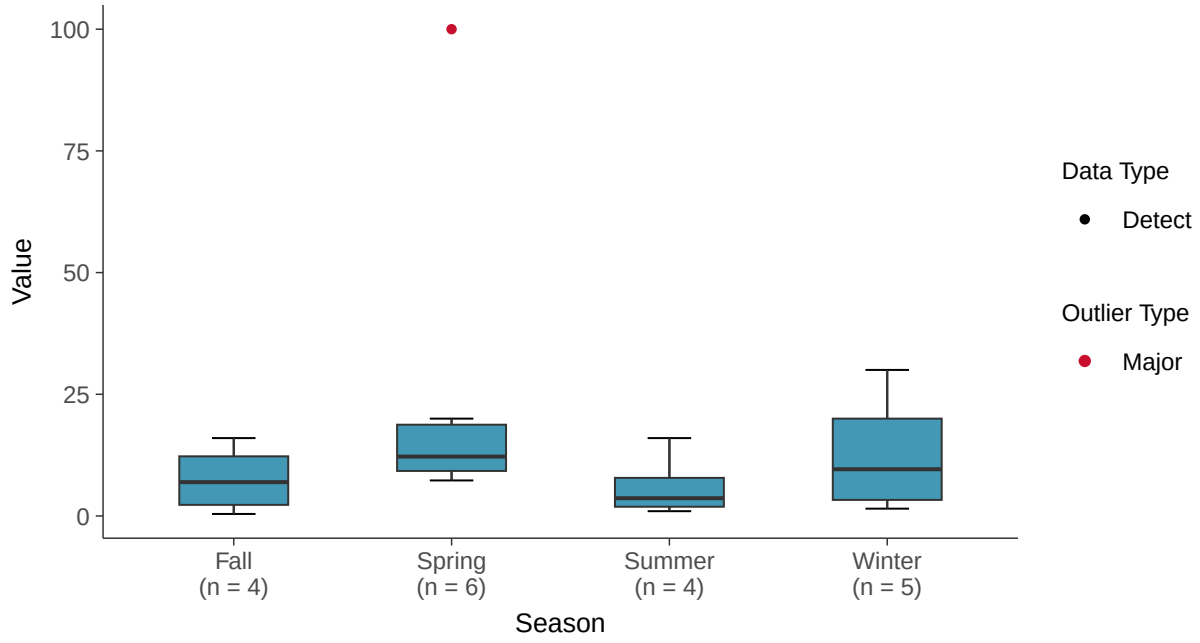
Boxplot

Sulfate (as SO4), MW-06 (mg/L)



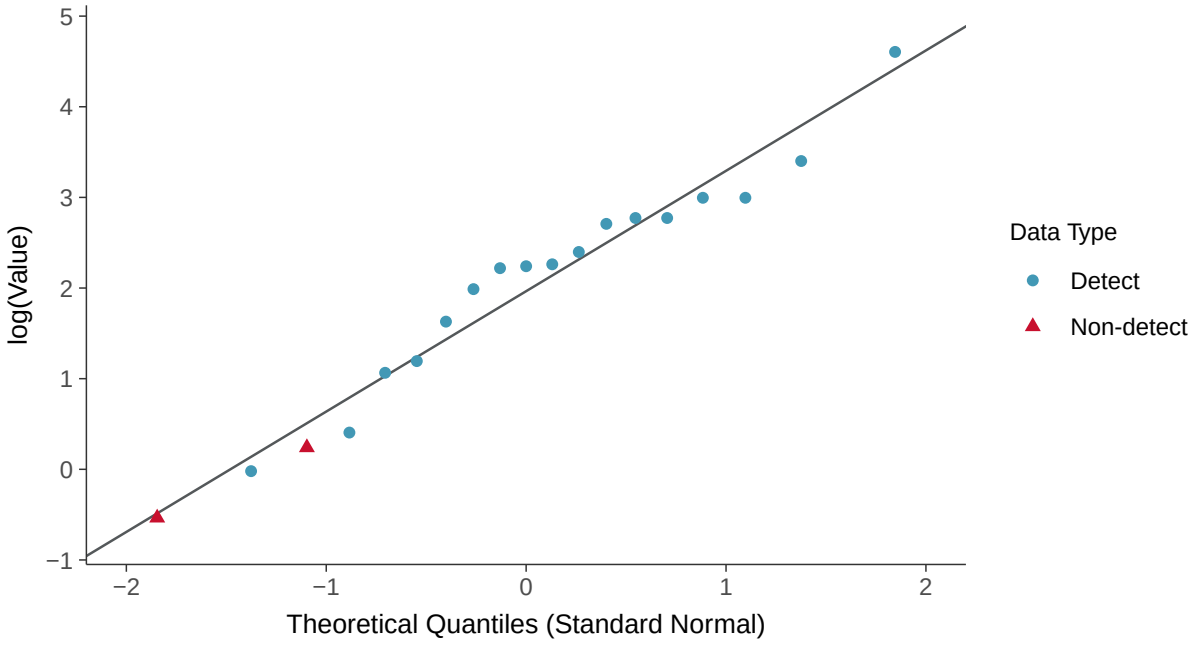
Boxplot by Season

Sulfate (as SO4), MW-06 (mg/L)



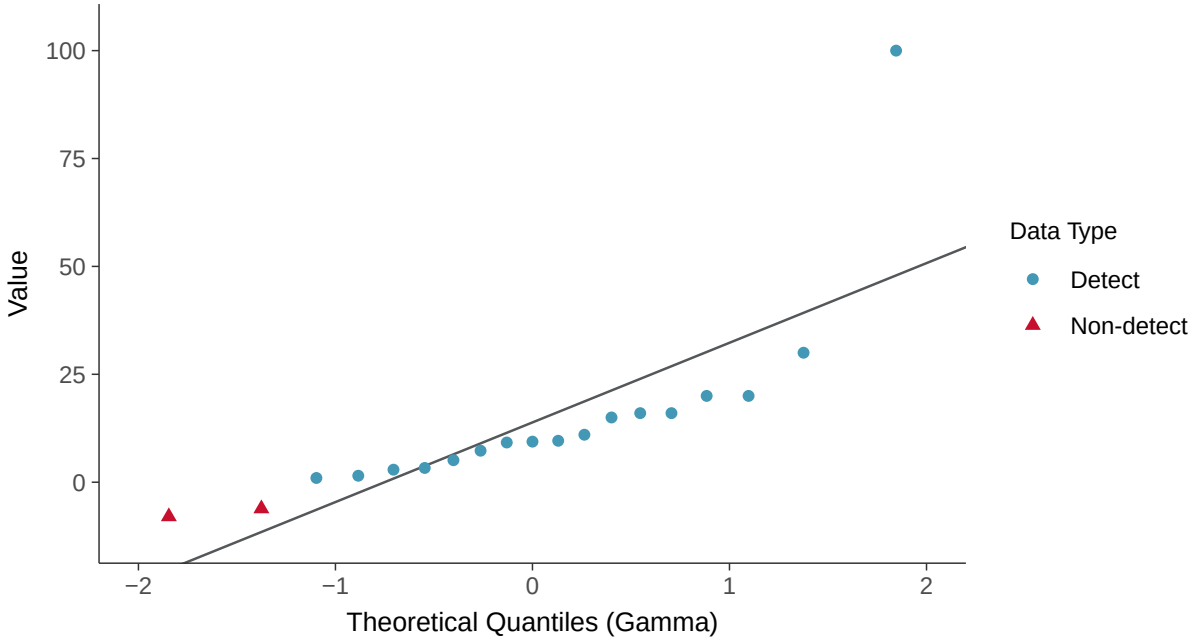
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-06 (mg/L)



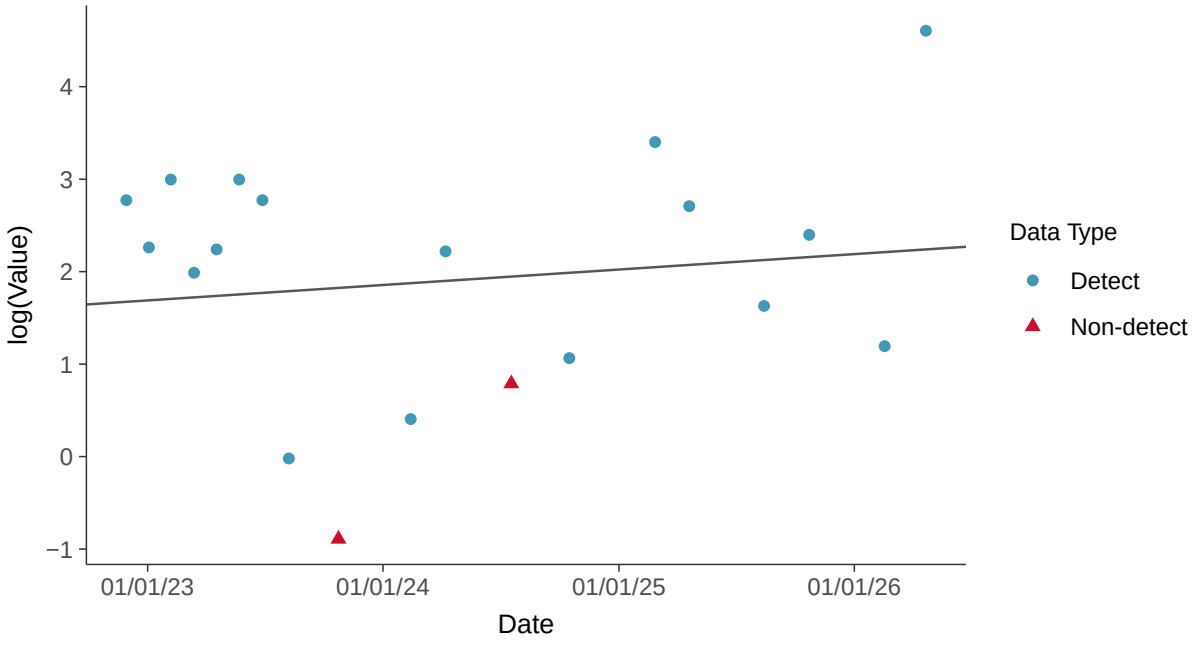
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-06 (mg/L)



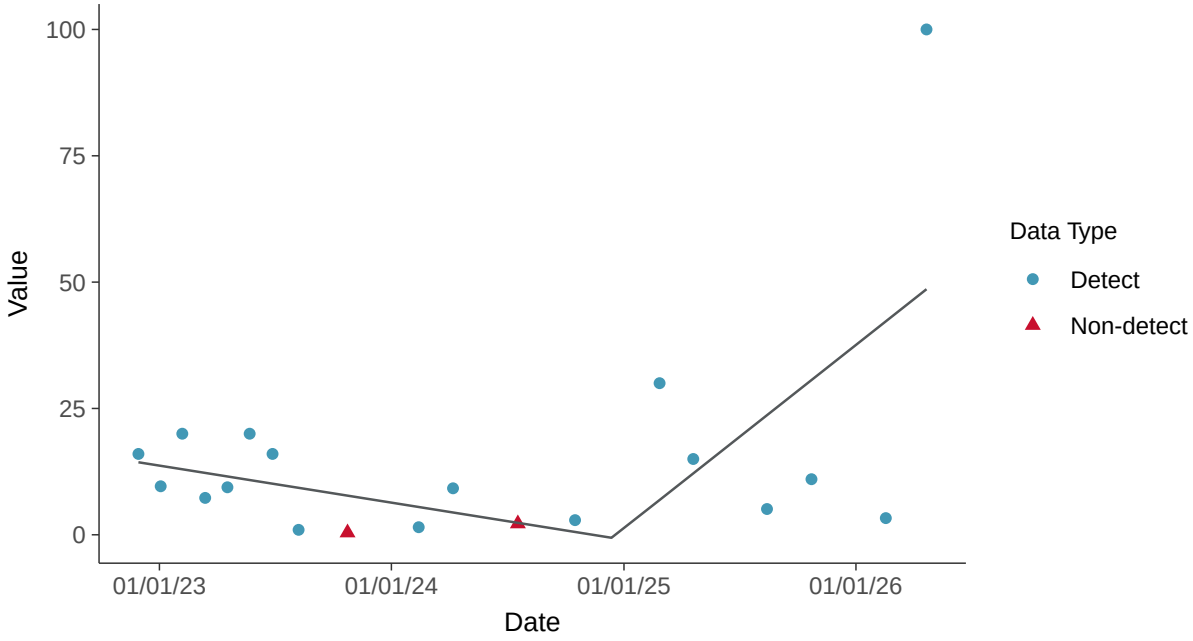
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-06 (mg/L)



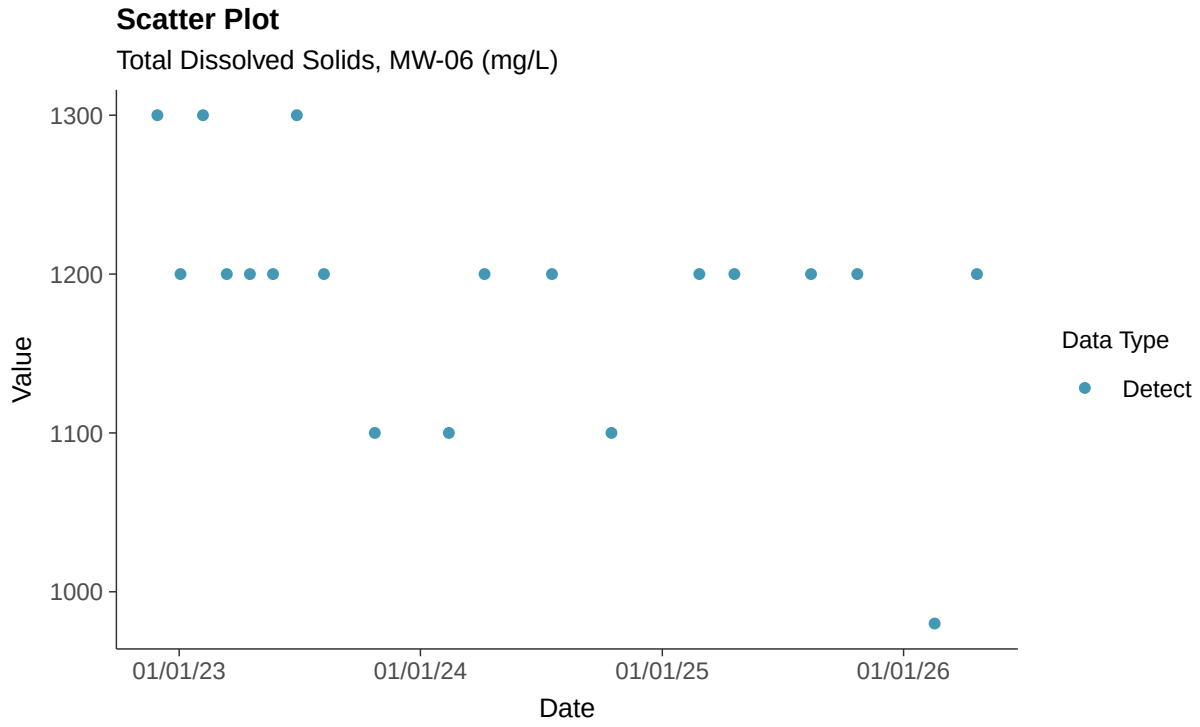
Trend Regression: Piecewise Linear-Linear

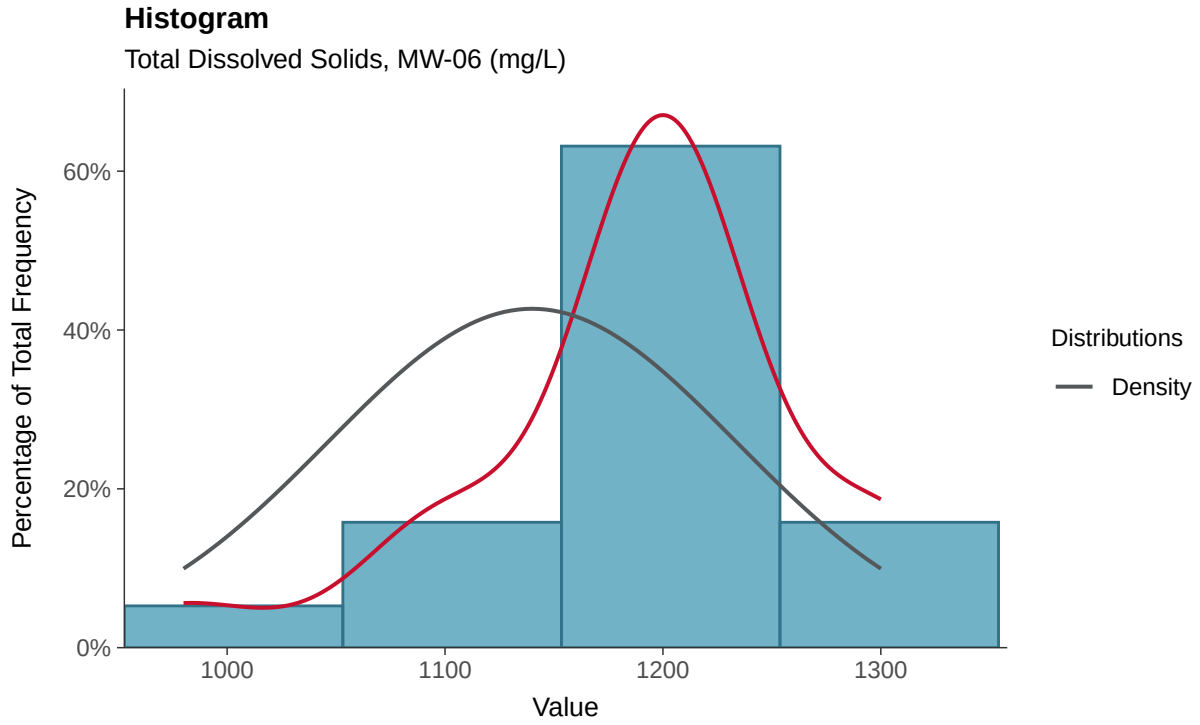
Sulfate (as SO4), MW-06 (mg/L)



Appendix III: Total Dissolved Solids, MW-06

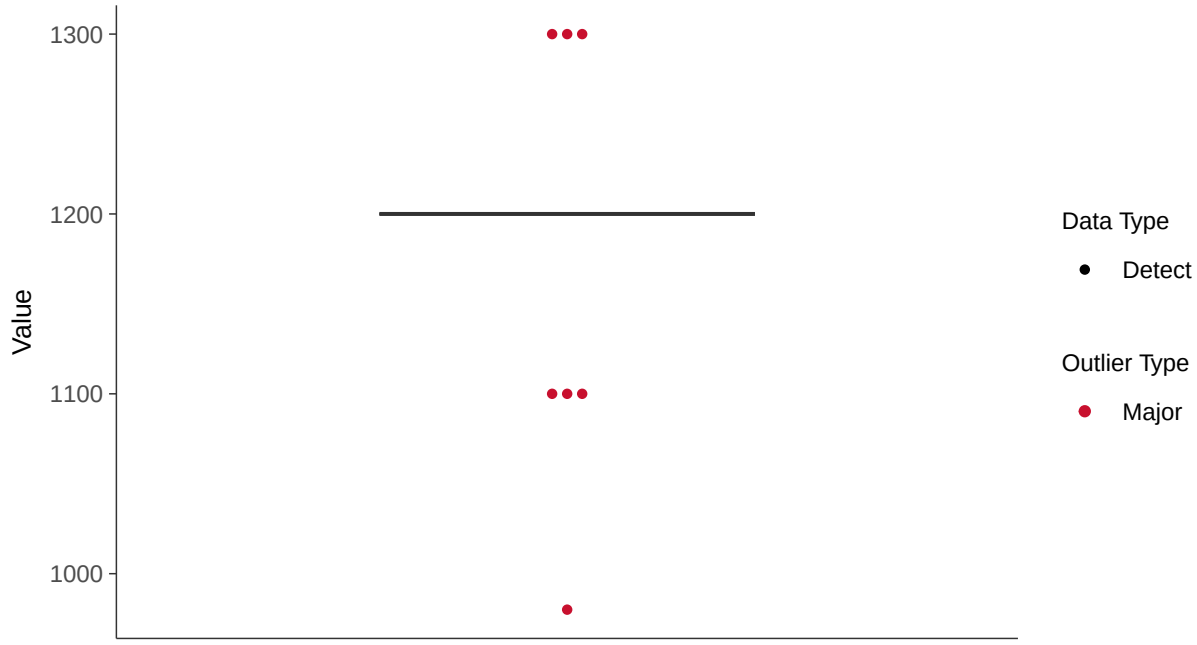
ID: 16_1_3_126





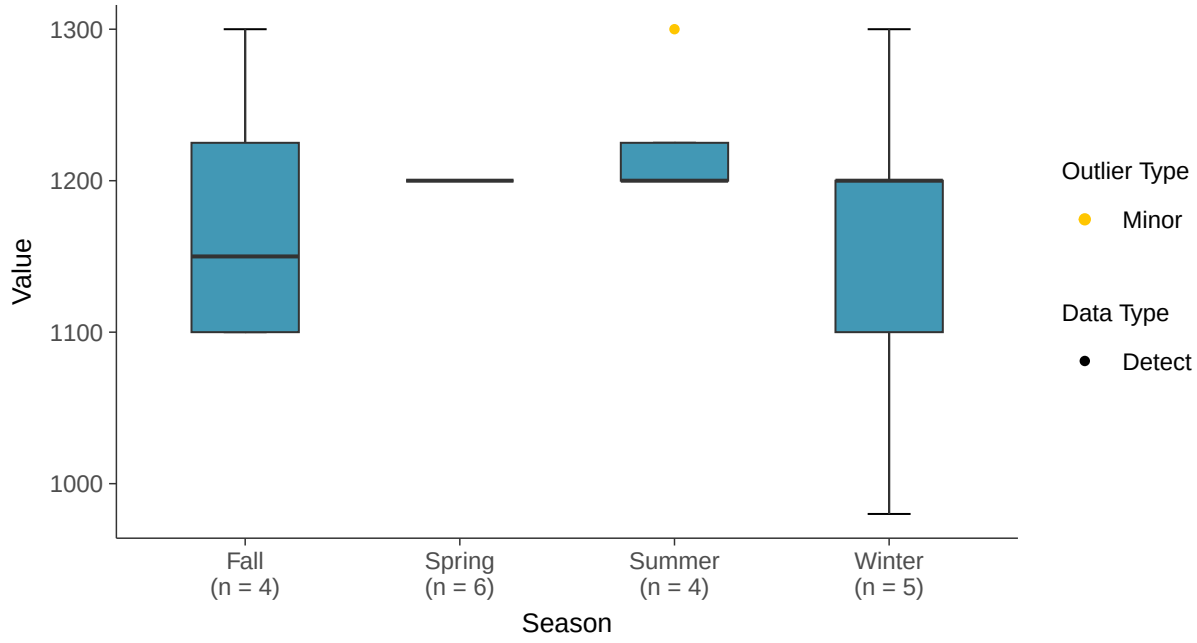
Boxplot

Total Dissolved Solids, MW-06 (mg/L)



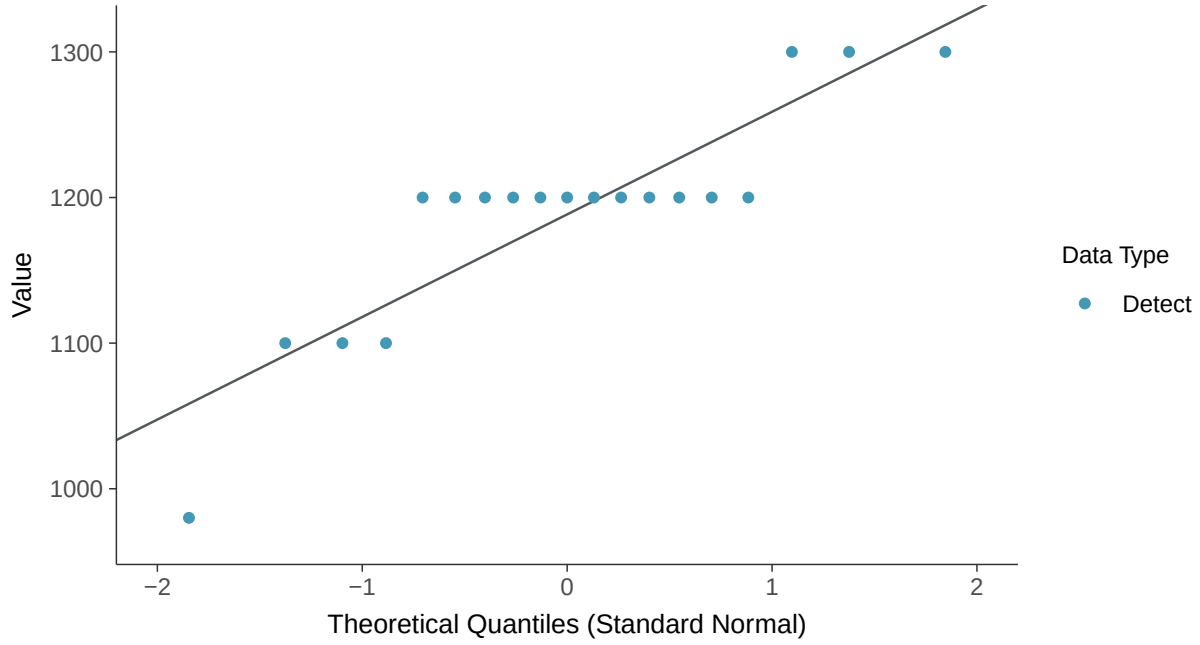
Boxplot by Season

Total Dissolved Solids, MW-06 (mg/L)



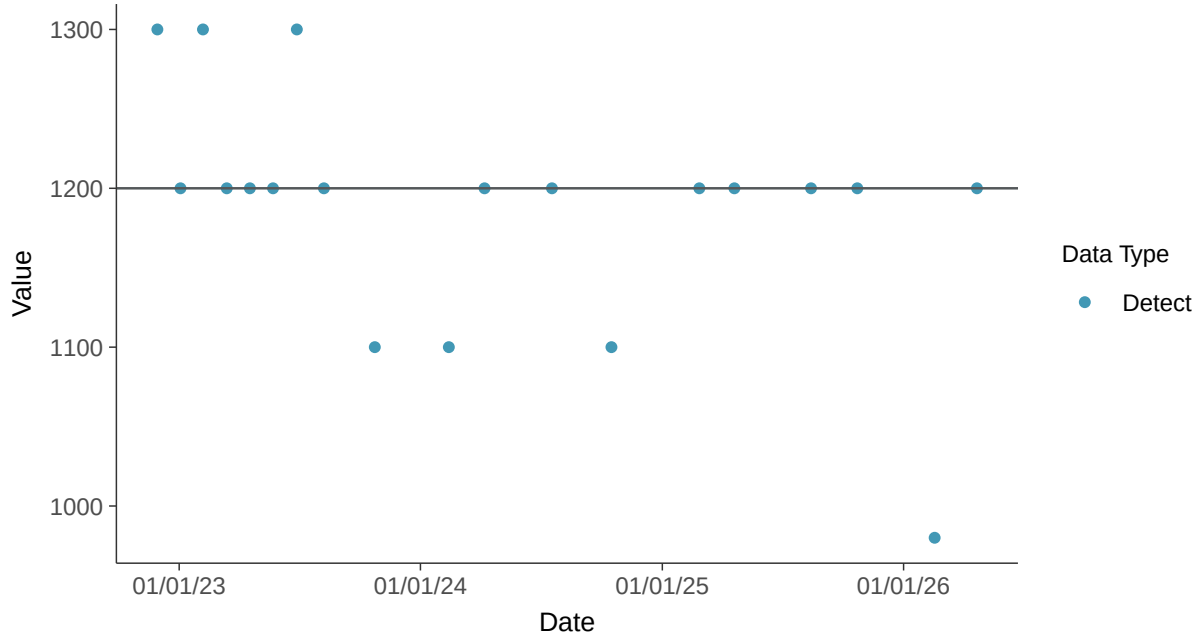
Normal Q-Q plot

Total Dissolved Solids, MW-06 (mg/L)



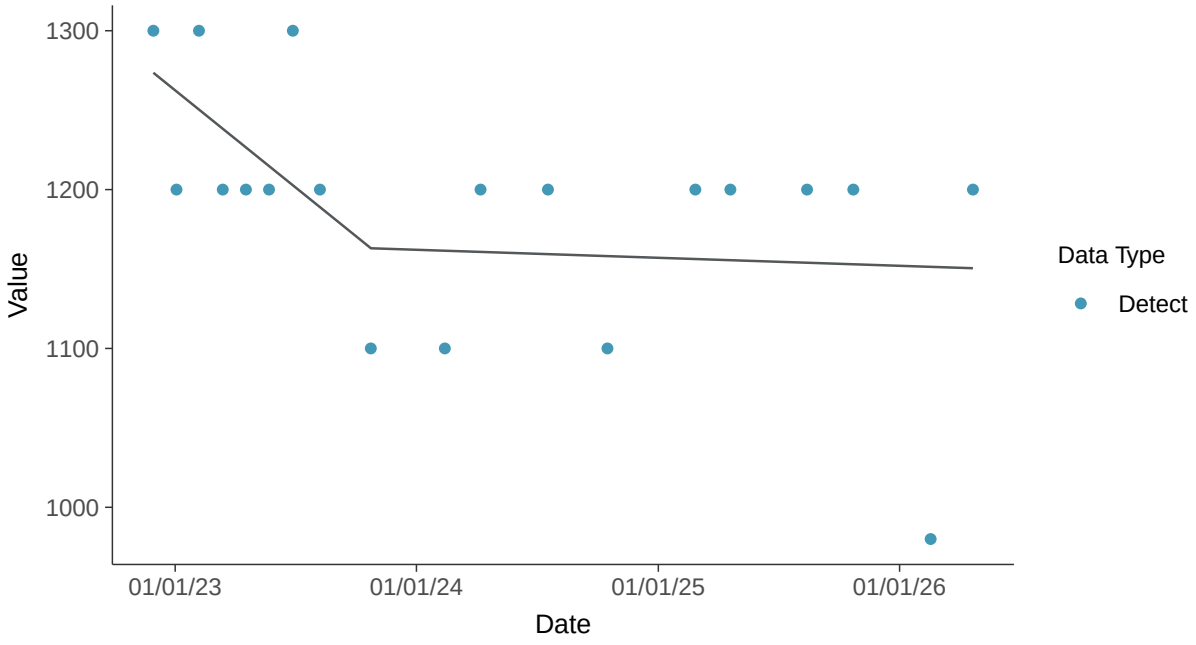
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-06 (mg/L)



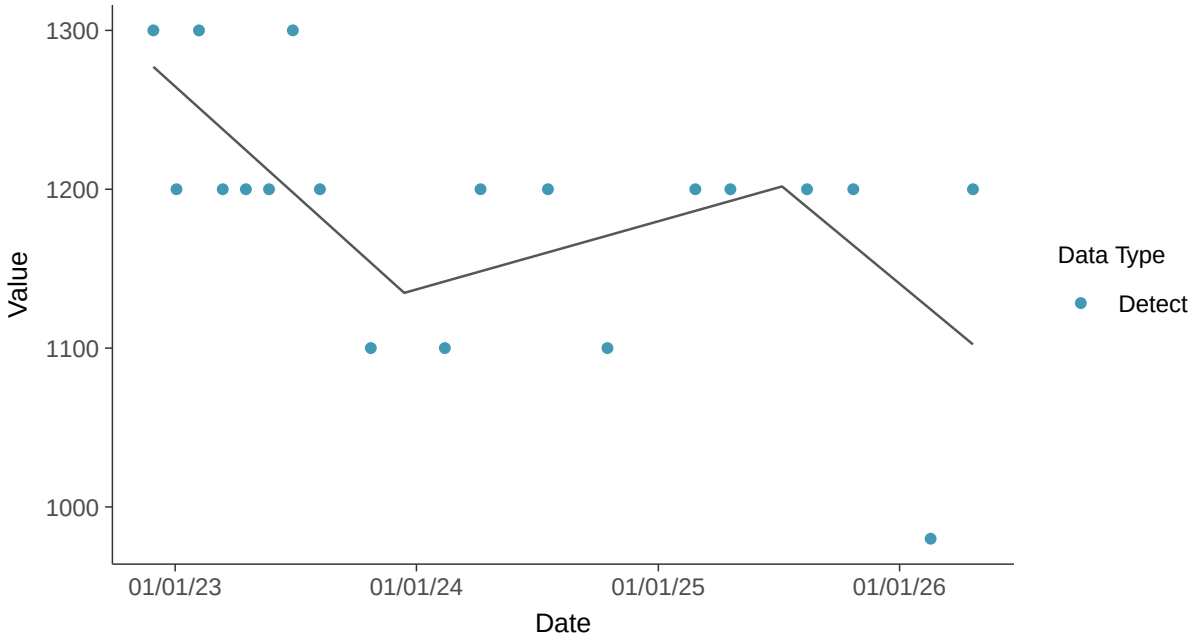
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-06 (mg/L)



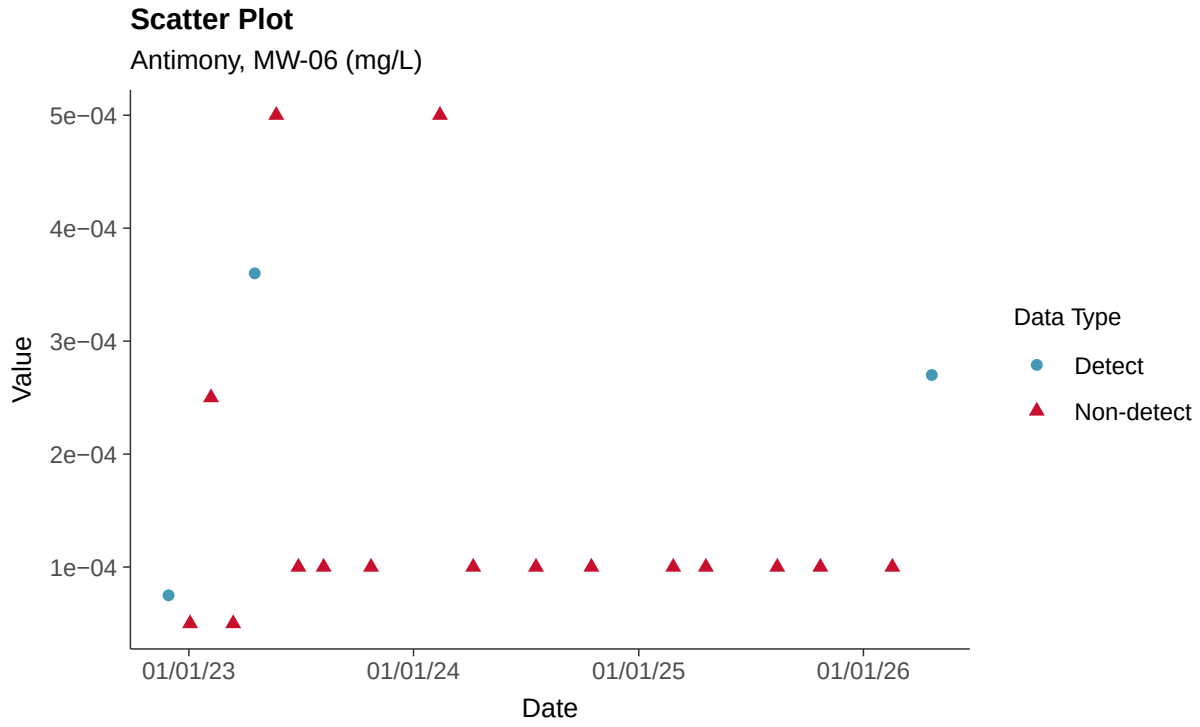
Trend Regression: Piecewise Linear-Linear-Linear

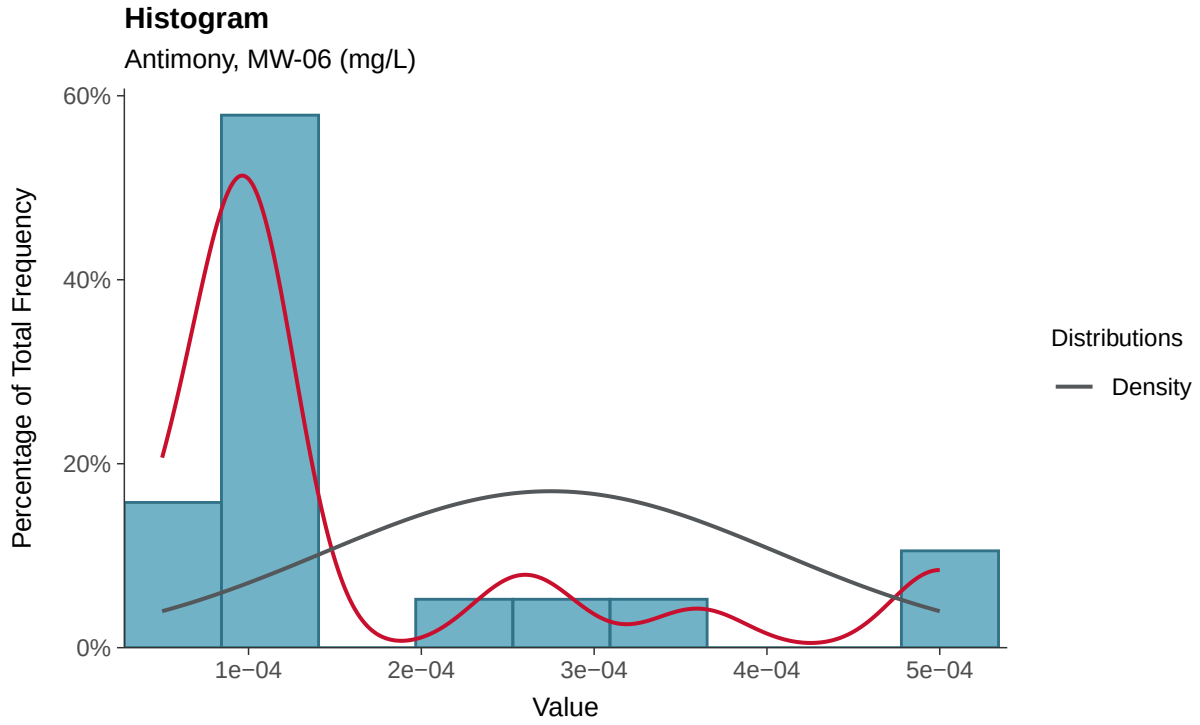
Total Dissolved Solids, MW-06 (mg/L)



Appendix IV: Antimony, MW-06

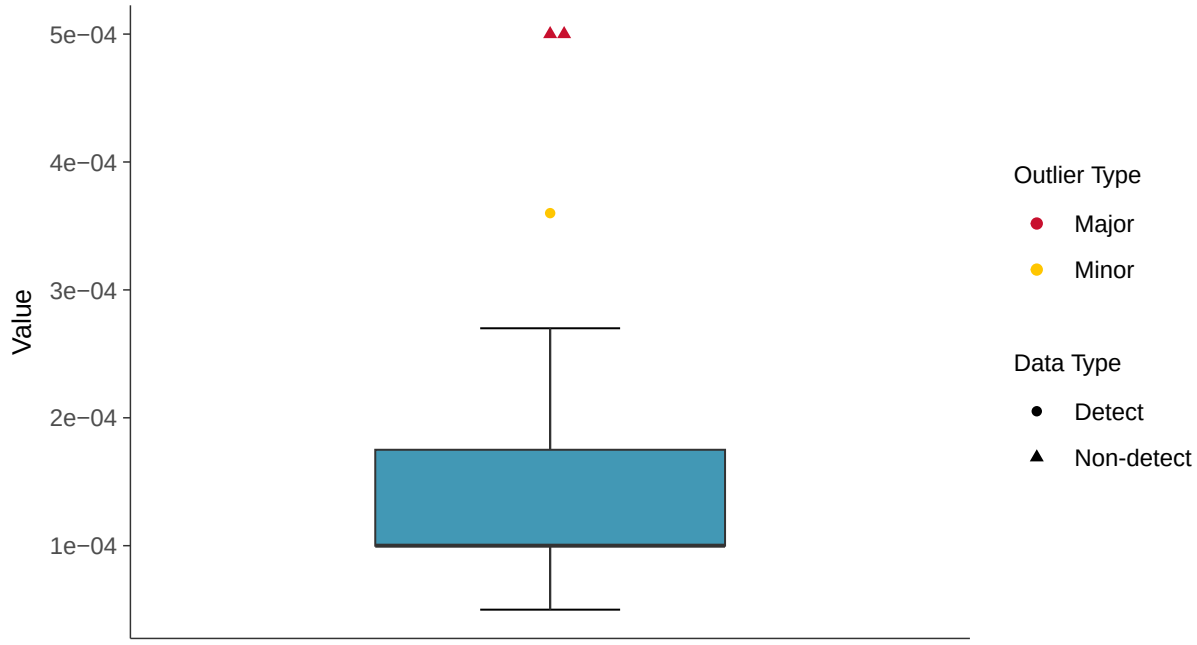
ID: 16_1_4_101





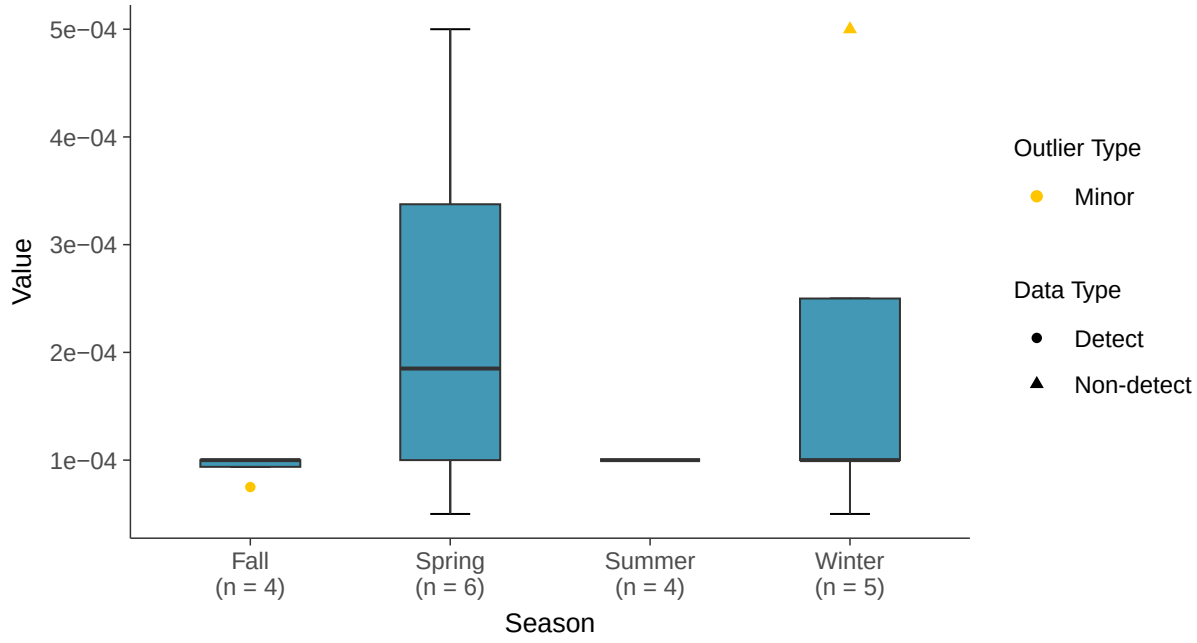
Boxplot

Antimony, MW-06 (mg/L)



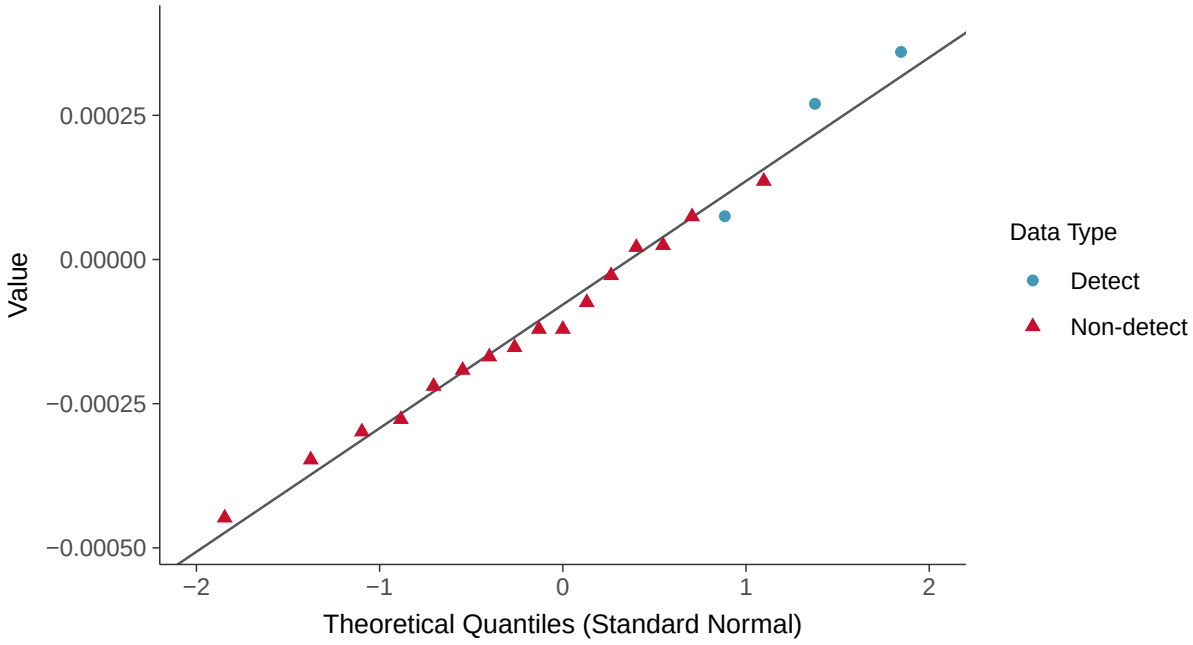
Boxplot by Season

Antimony, MW-06 (mg/L)



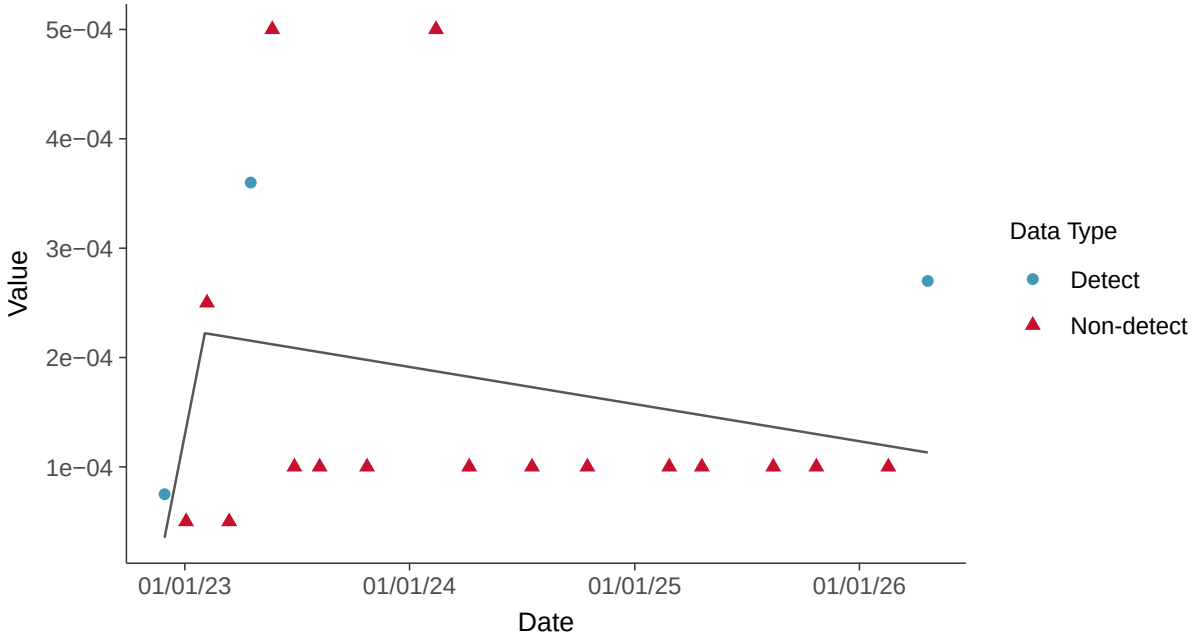
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-06 (mg/L)



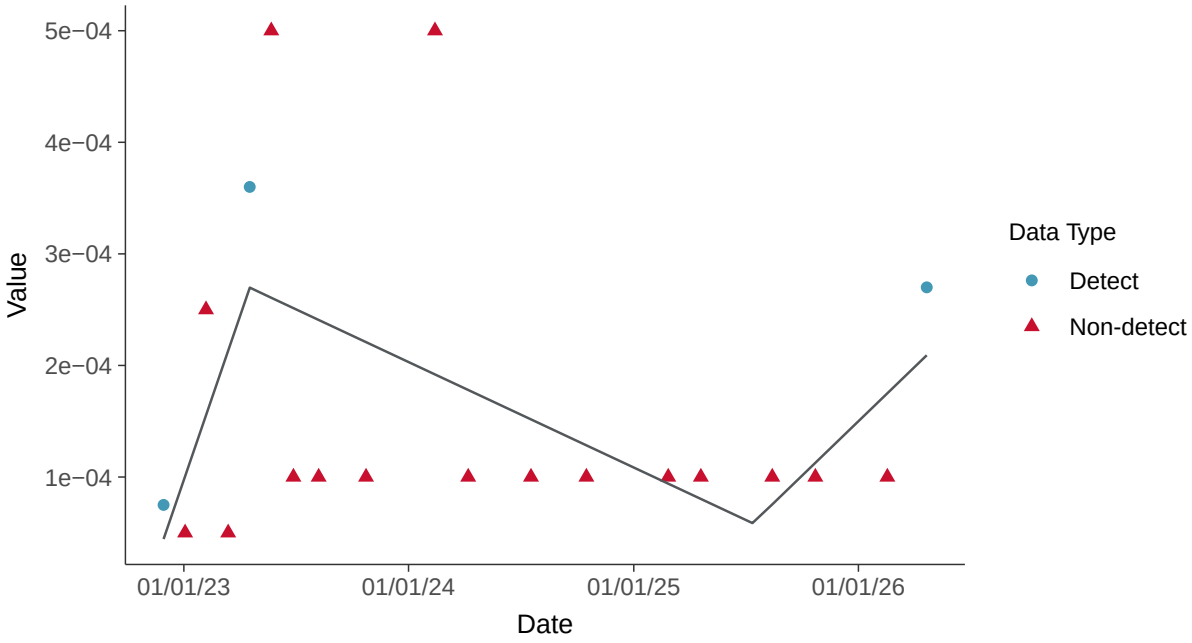
Trend Regression: Piecewise Linear-Linear

Antimony, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-06 (mg/L)

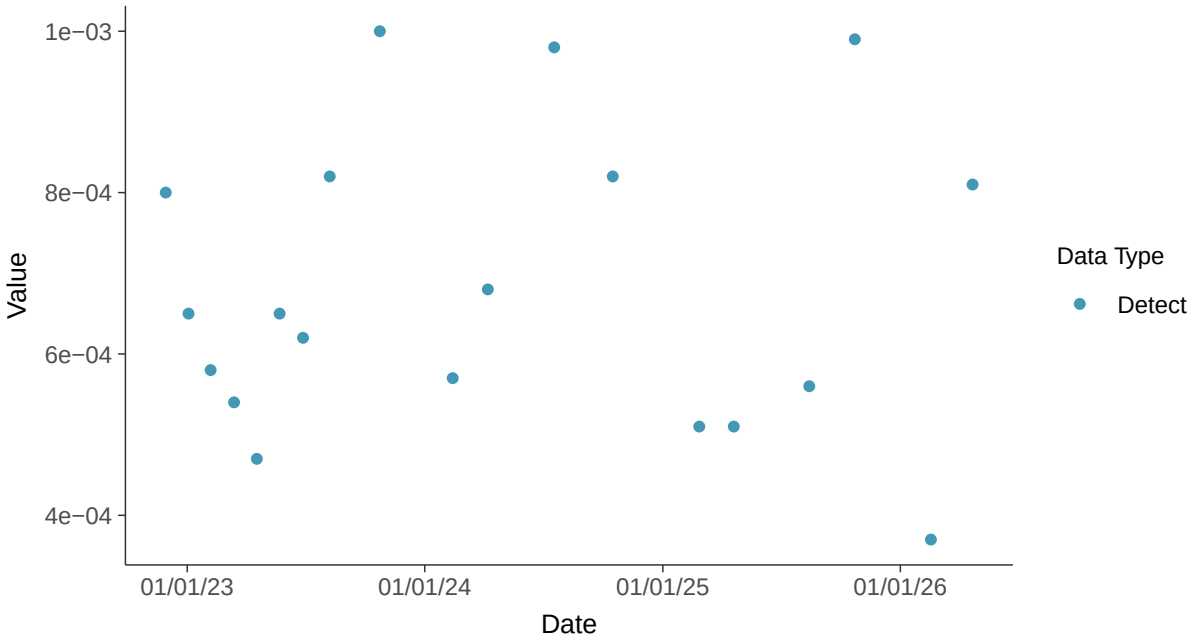


Appendix IV: Arsenic, MW-06

ID: 16_1_4_102

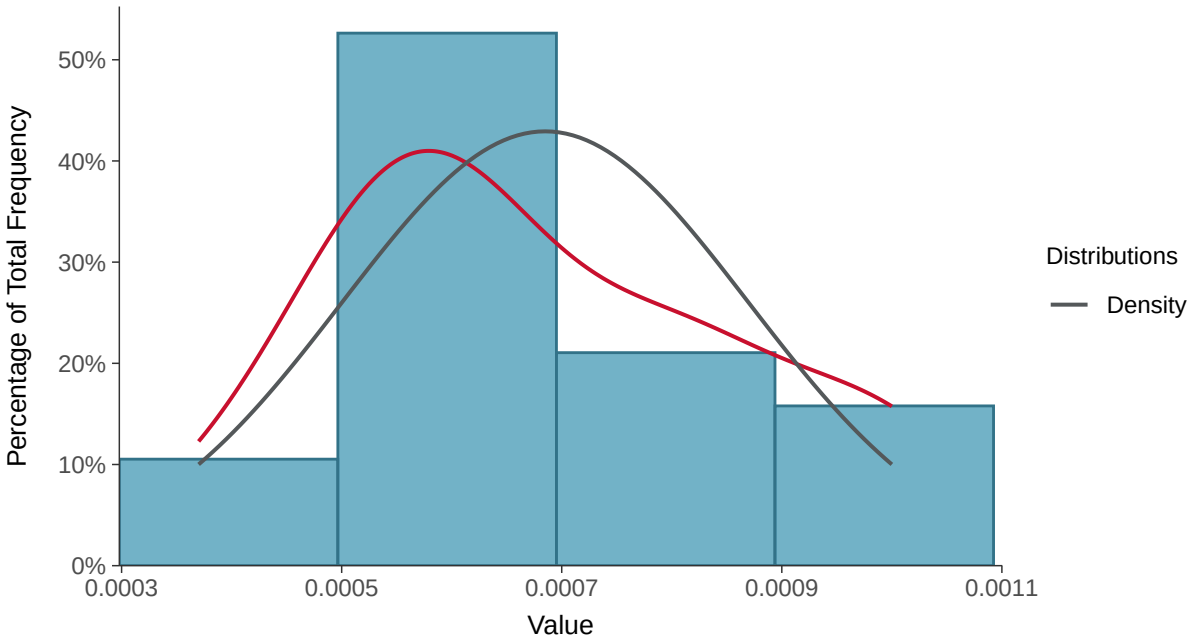
Scatter Plot

Arsenic, MW-06 (mg/L)



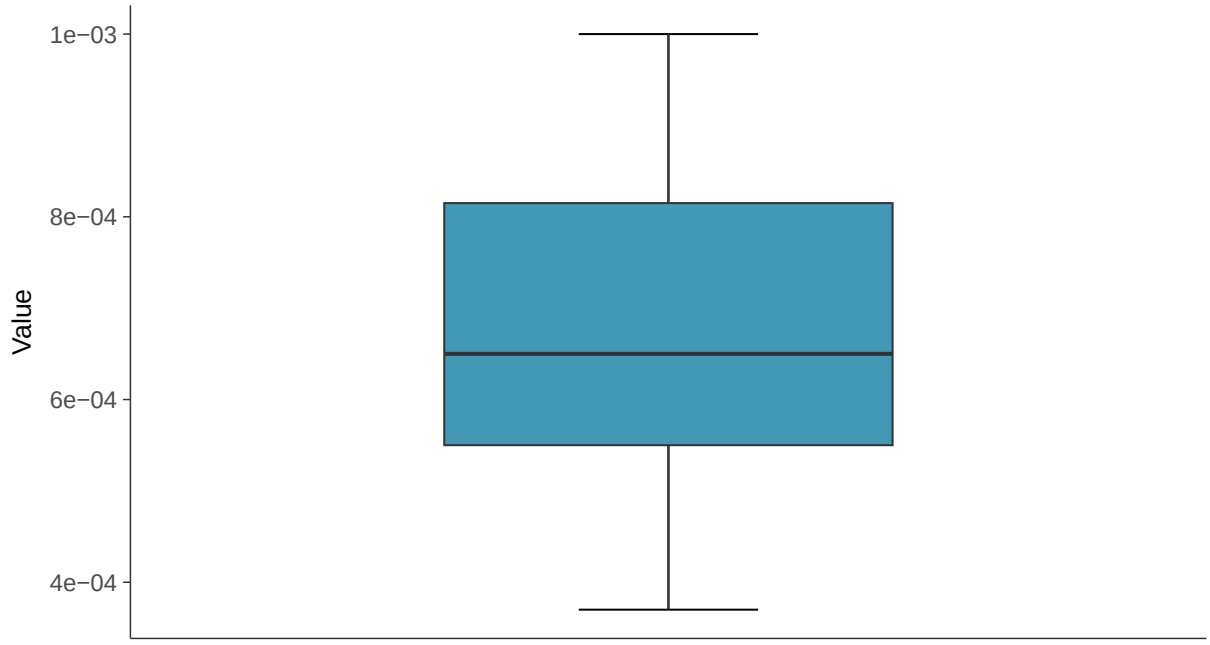
Histogram

Arsenic, MW-06 (mg/L)



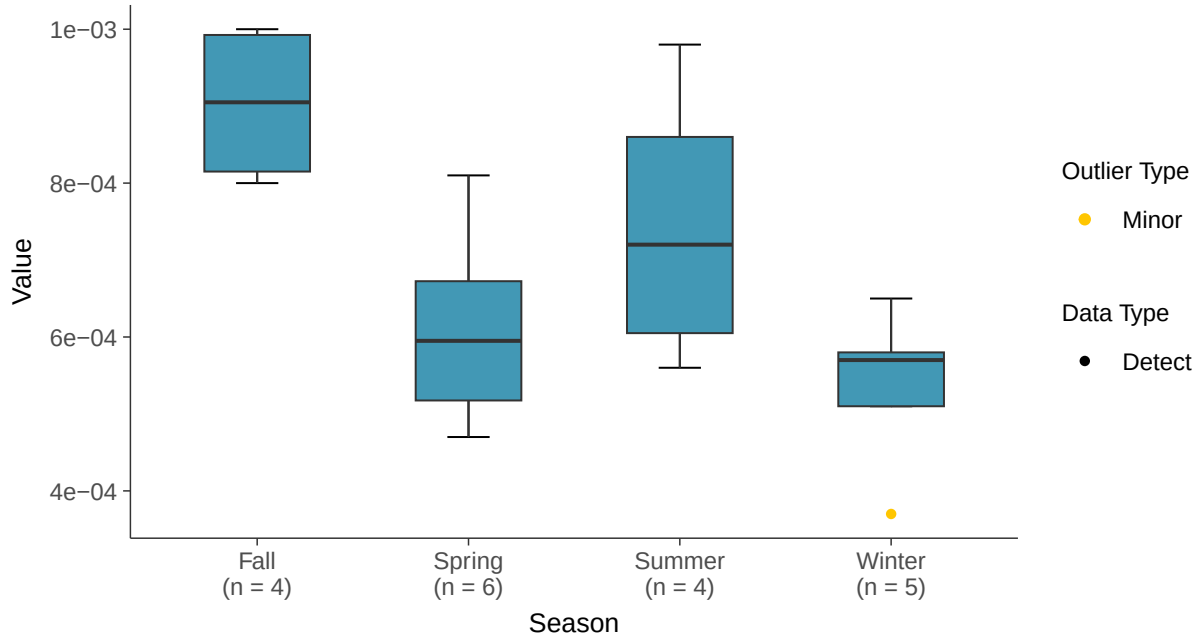
Boxplot

Arsenic, MW-06 (mg/L)



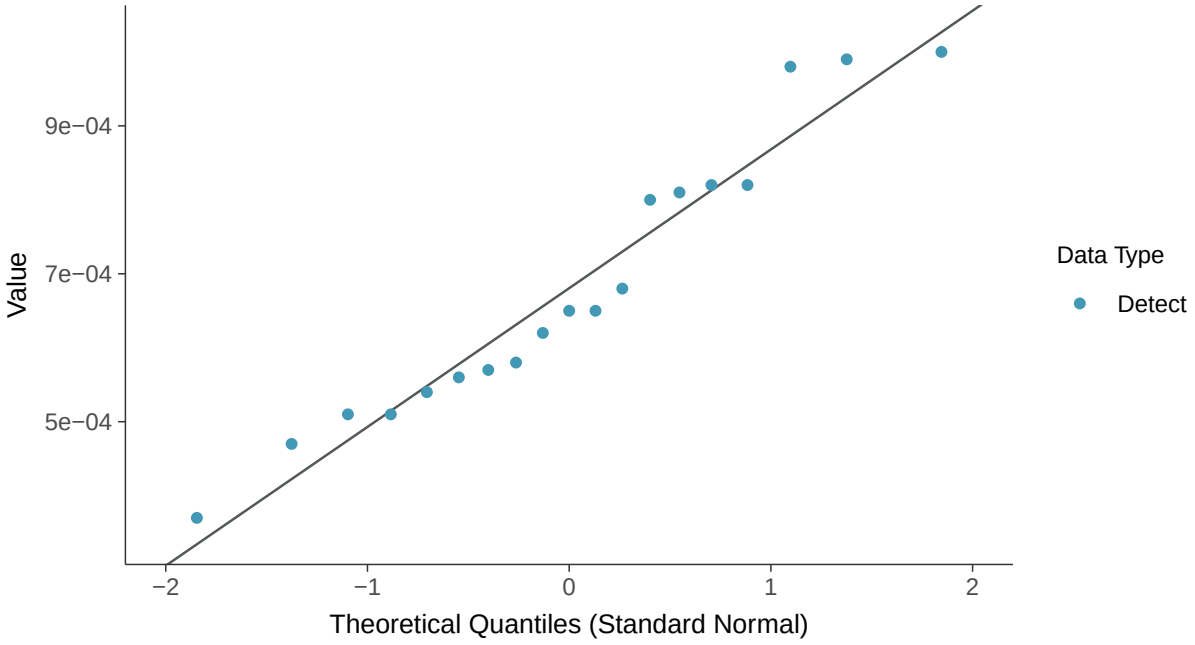
Boxplot by Season

Arsenic, MW-06 (mg/L)



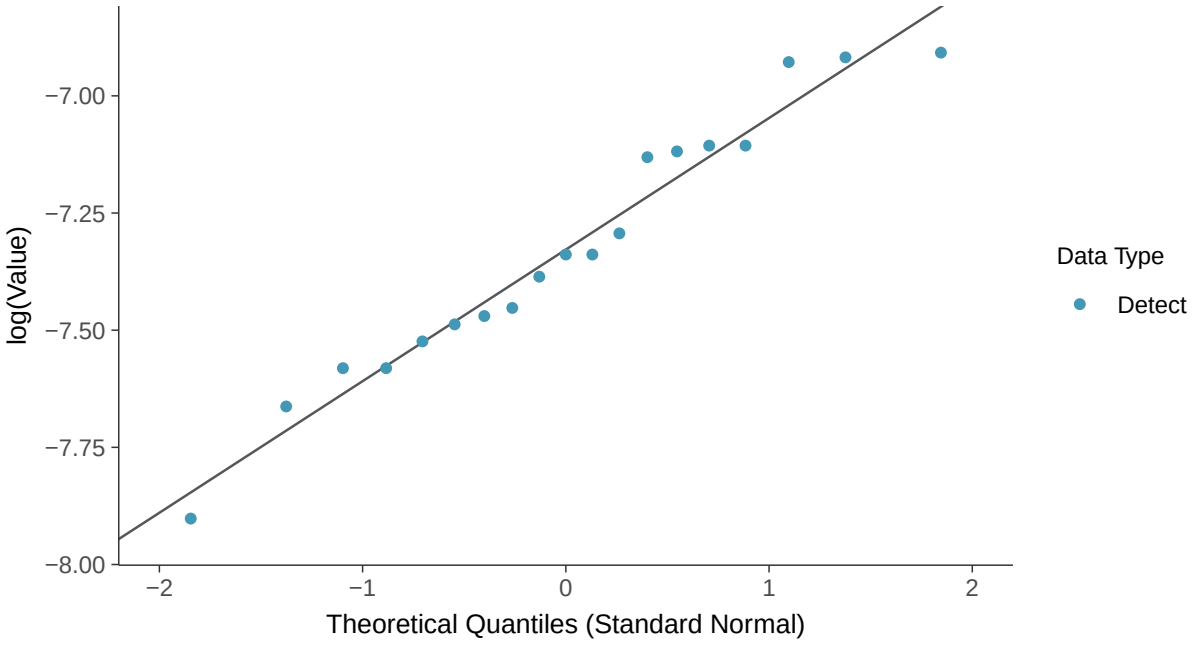
Normal Q-Q plot

Arsenic, MW-06 (mg/L)



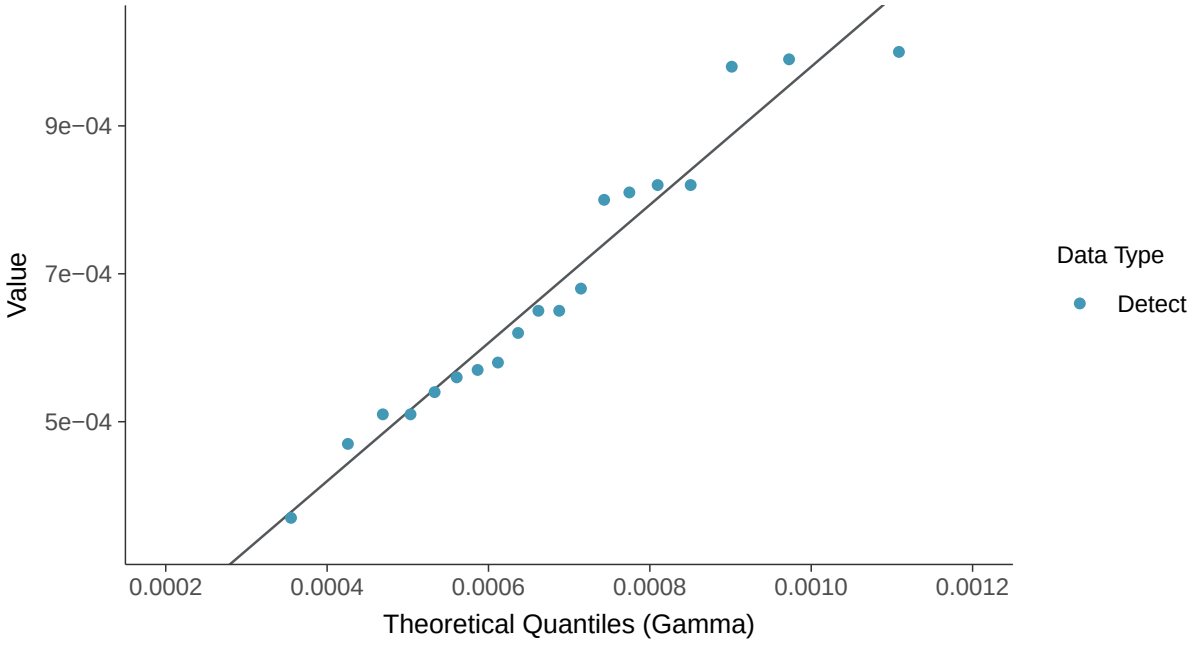
Lognormal Q-Q plot

Arsenic, MW-06 (mg/L)



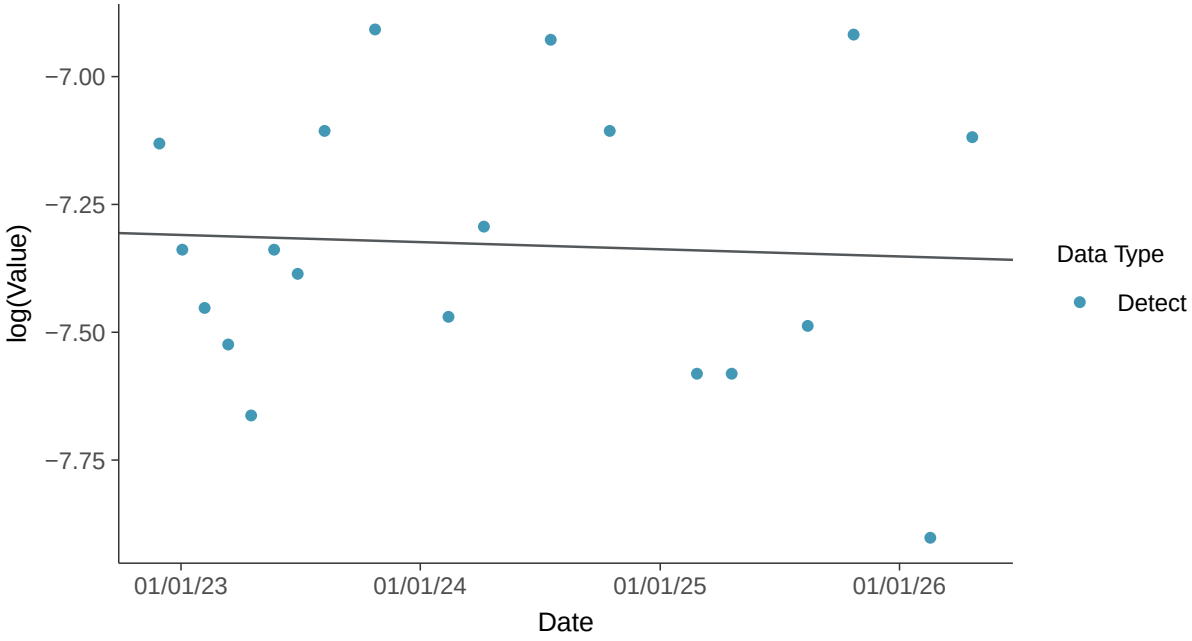
Gamma Q-Q plot

Arsenic, MW-06 (mg/L)



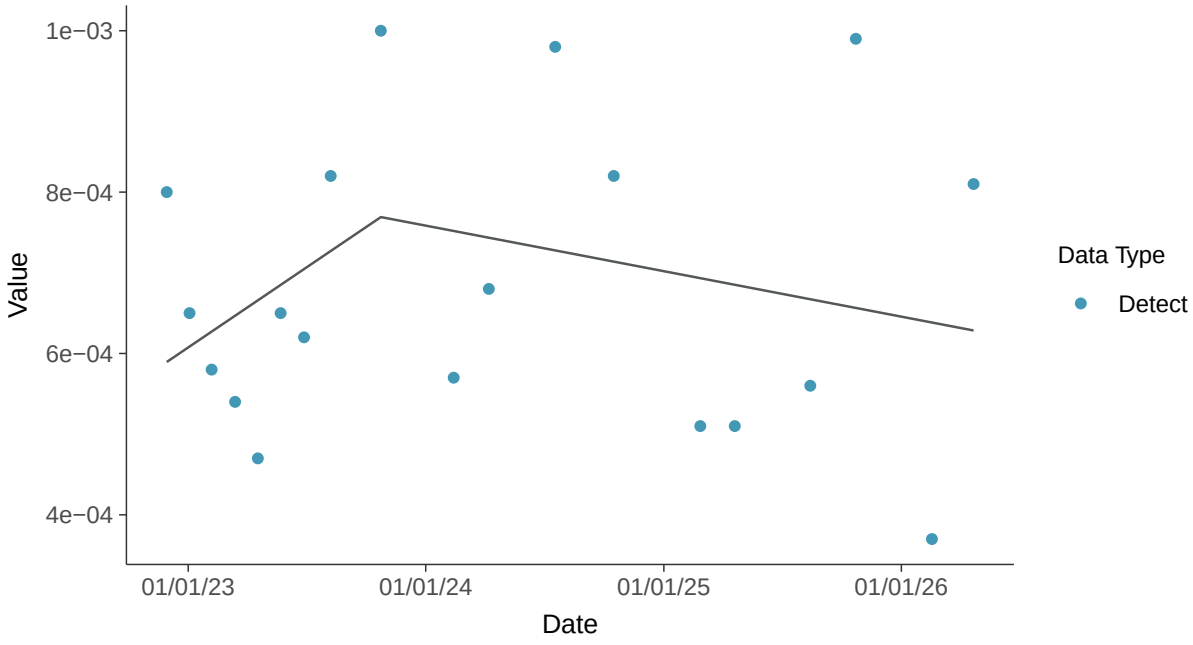
Trend Regression: Lognormal MLE

Arsenic, MW-06 (mg/L)



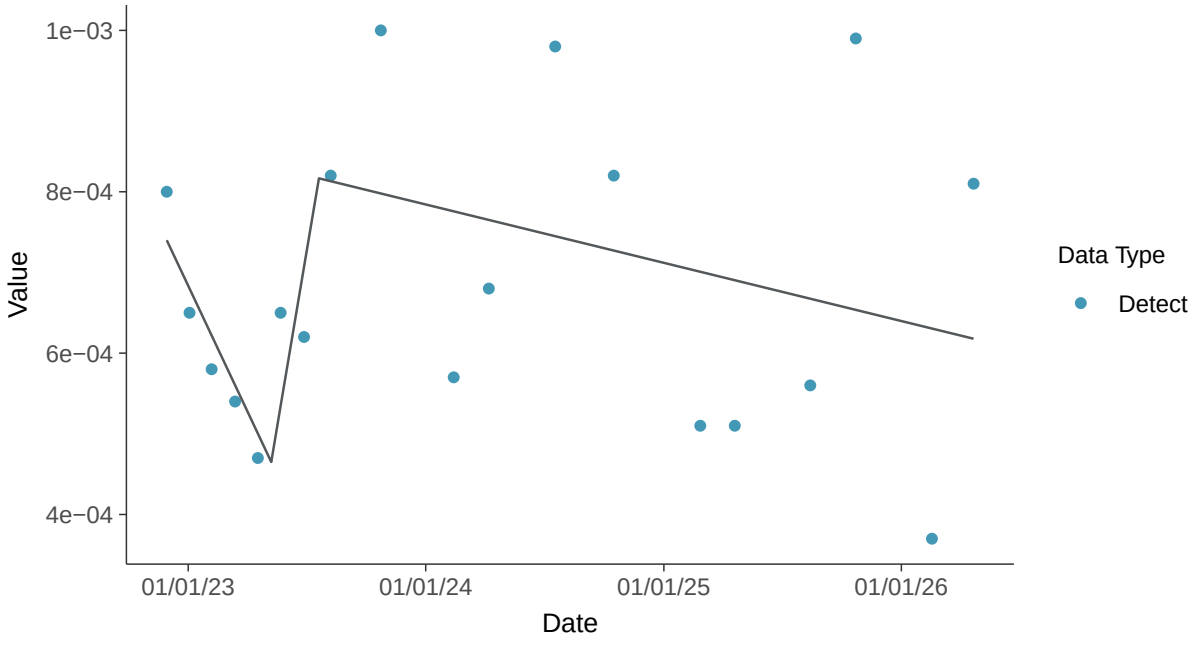
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-06 (mg/L)

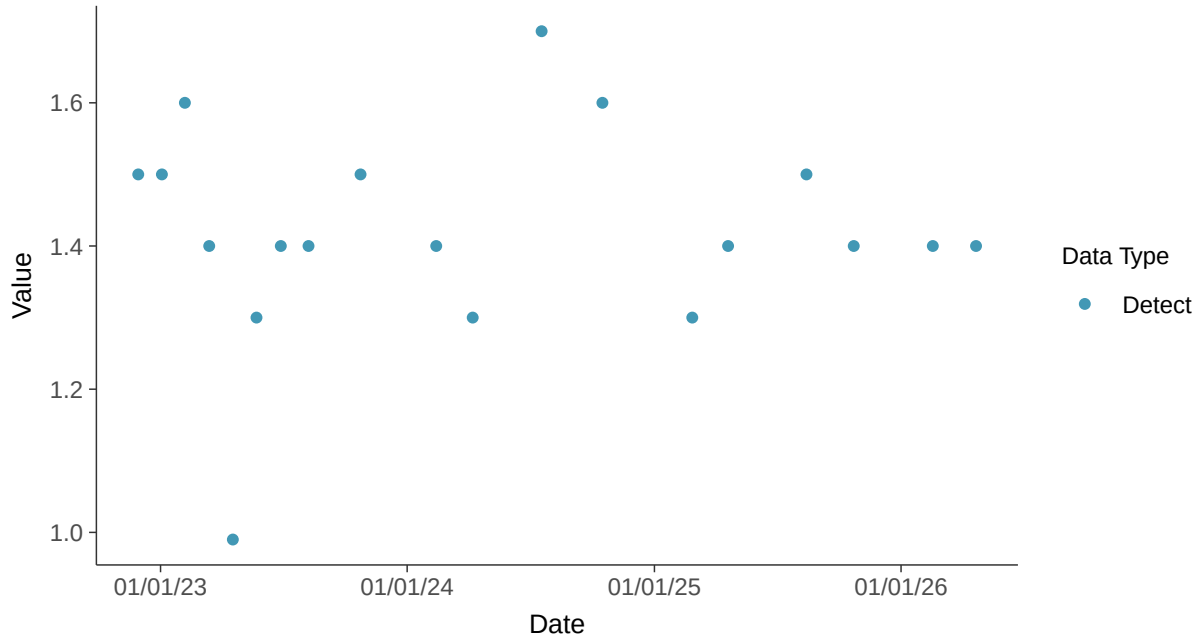


Appendix IV: Barium, MW-06

ID: 16_1_4_103

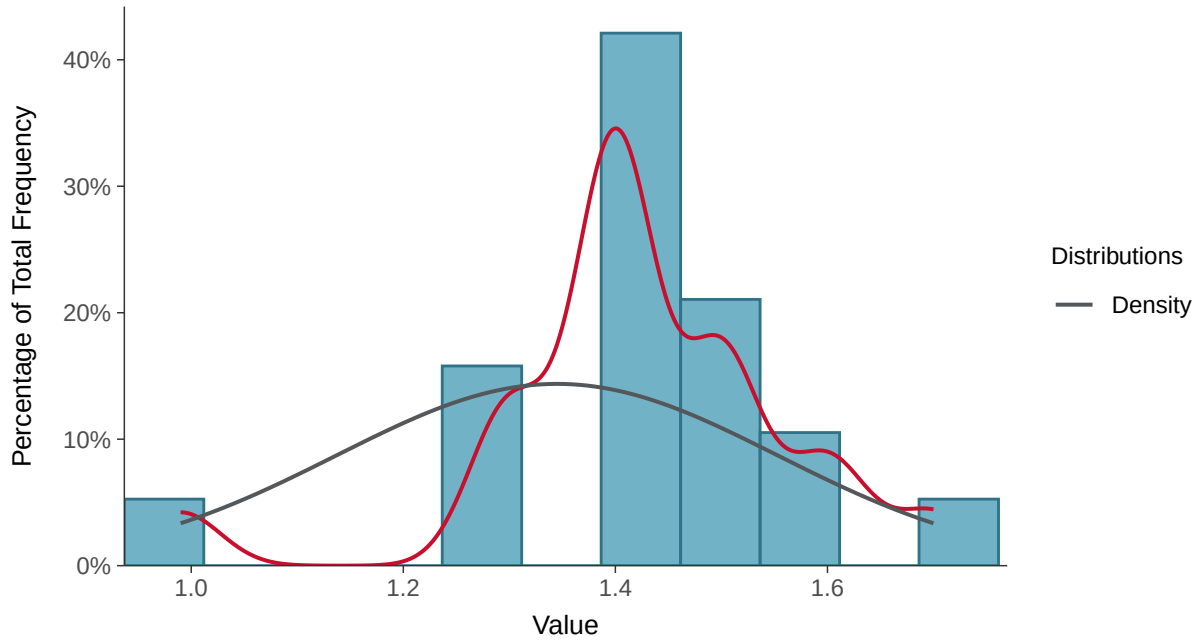
Scatter Plot

Barium, MW-06 (mg/L)



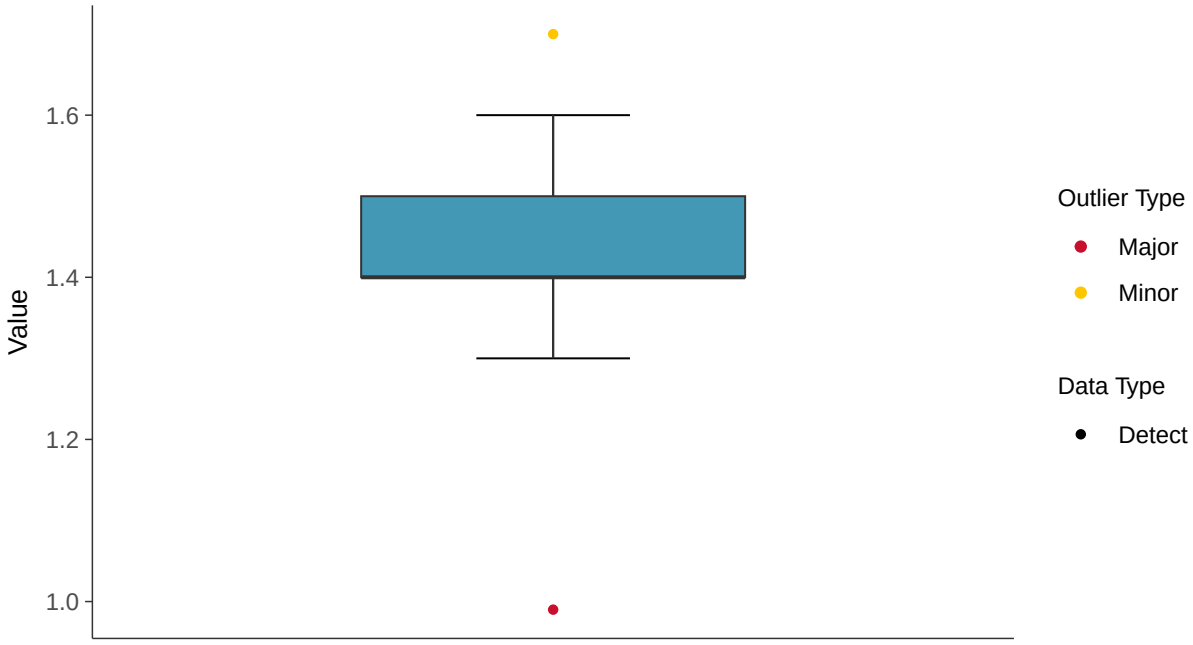
Histogram

Barium, MW-06 (mg/L)



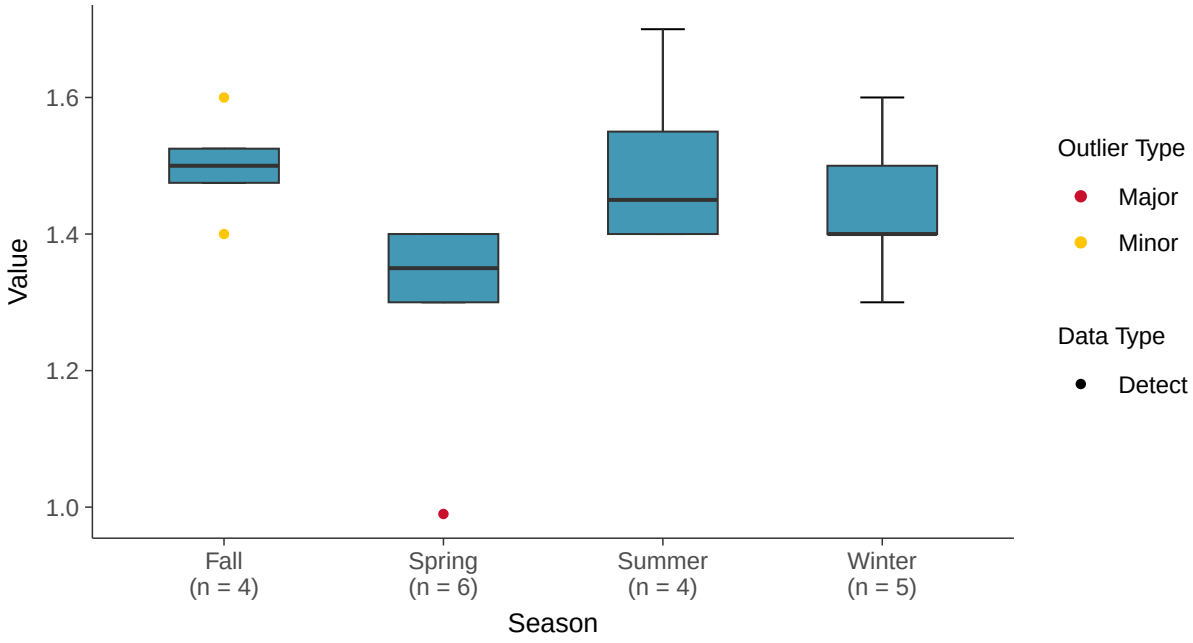
Boxplot

Barium, MW-06 (mg/L)



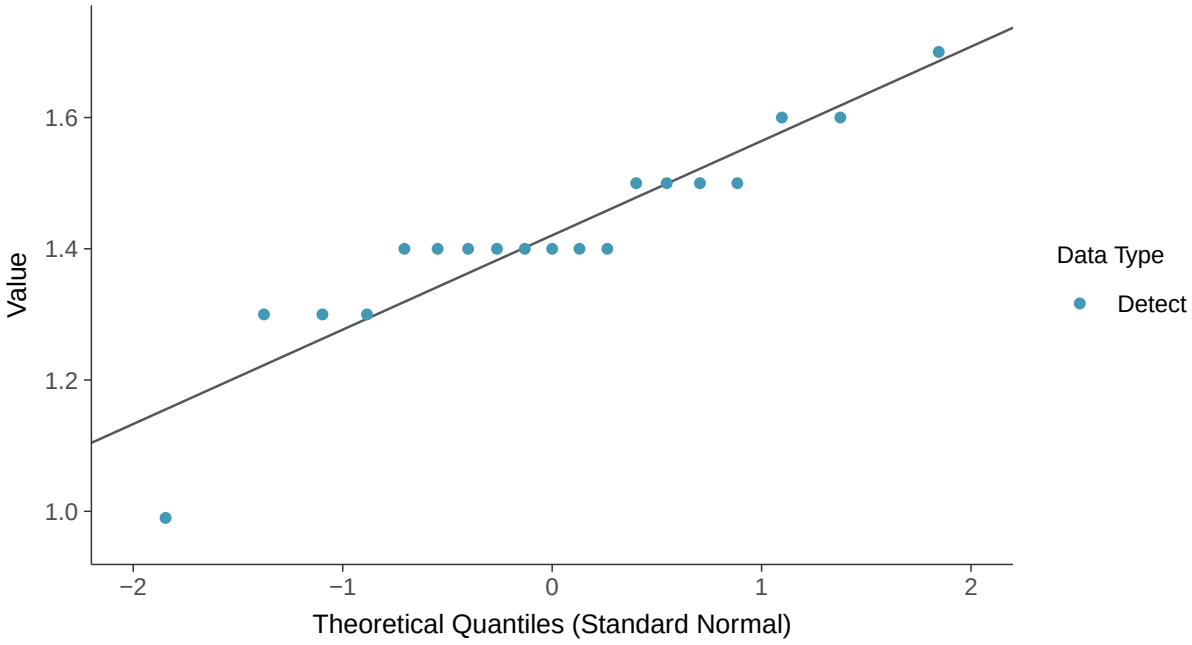
Boxplot by Season

Barium, MW-06 (mg/L)



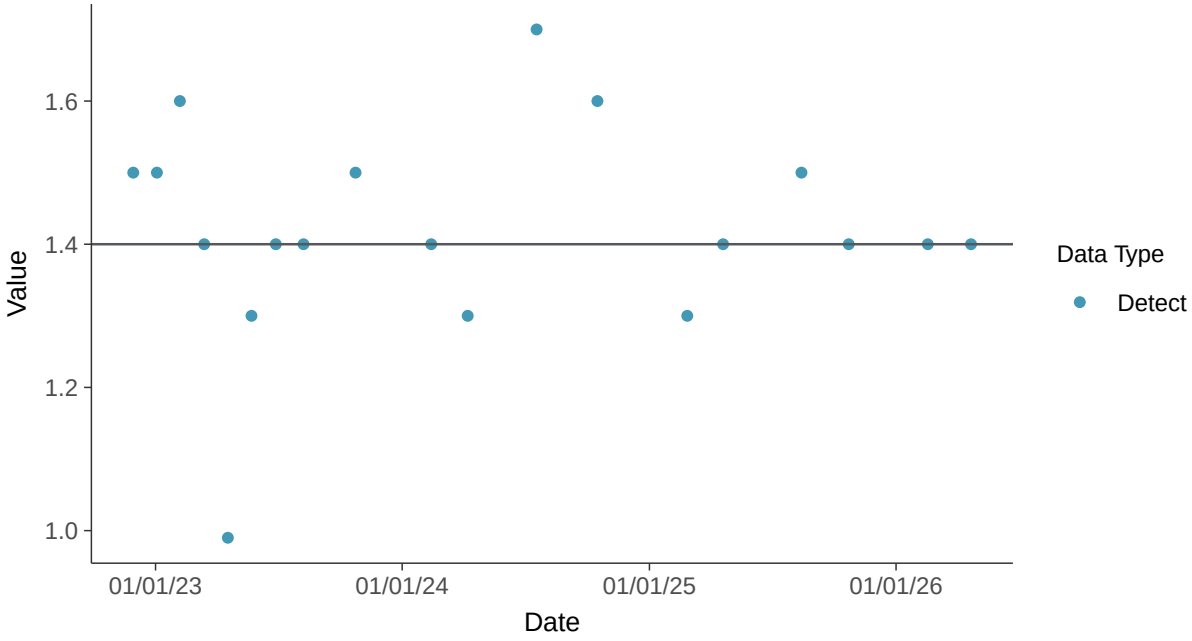
Normal Q-Q plot

Barium, MW-06 (mg/L)



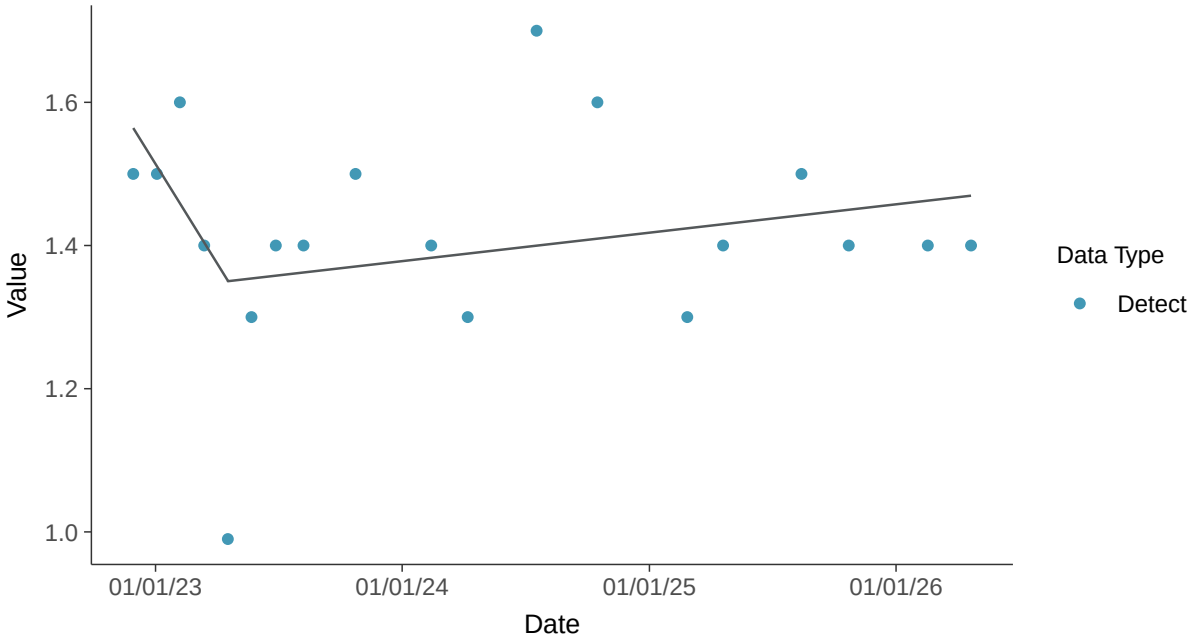
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-06 (mg/L)



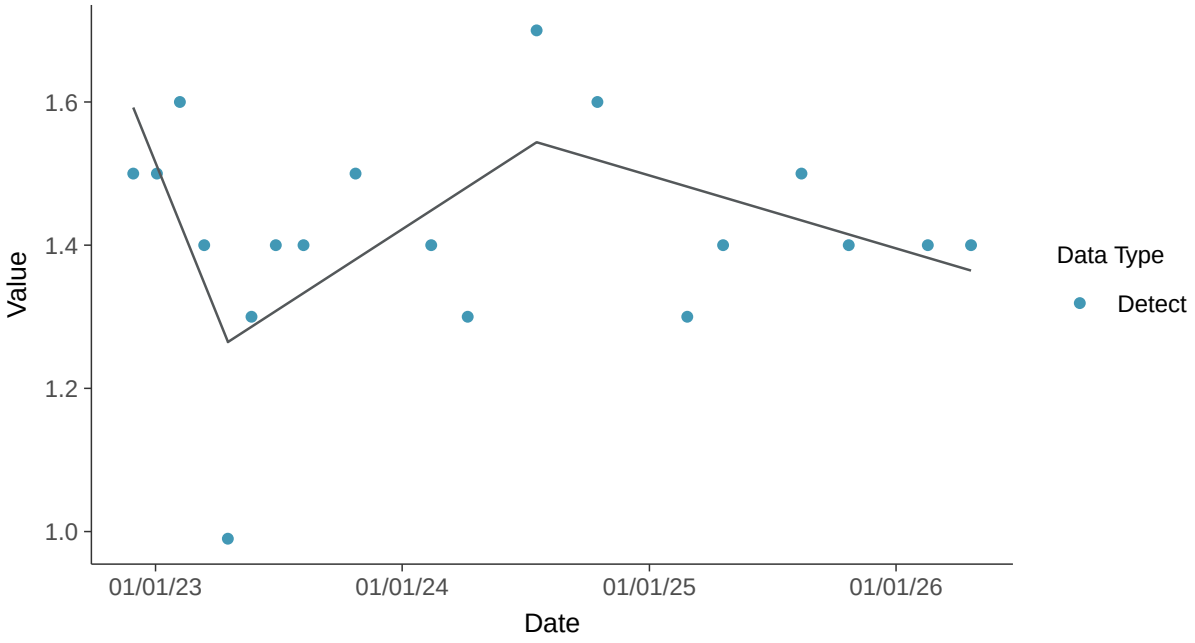
Trend Regression: Piecewise Linear-Linear

Barium, MW-06 (mg/L)



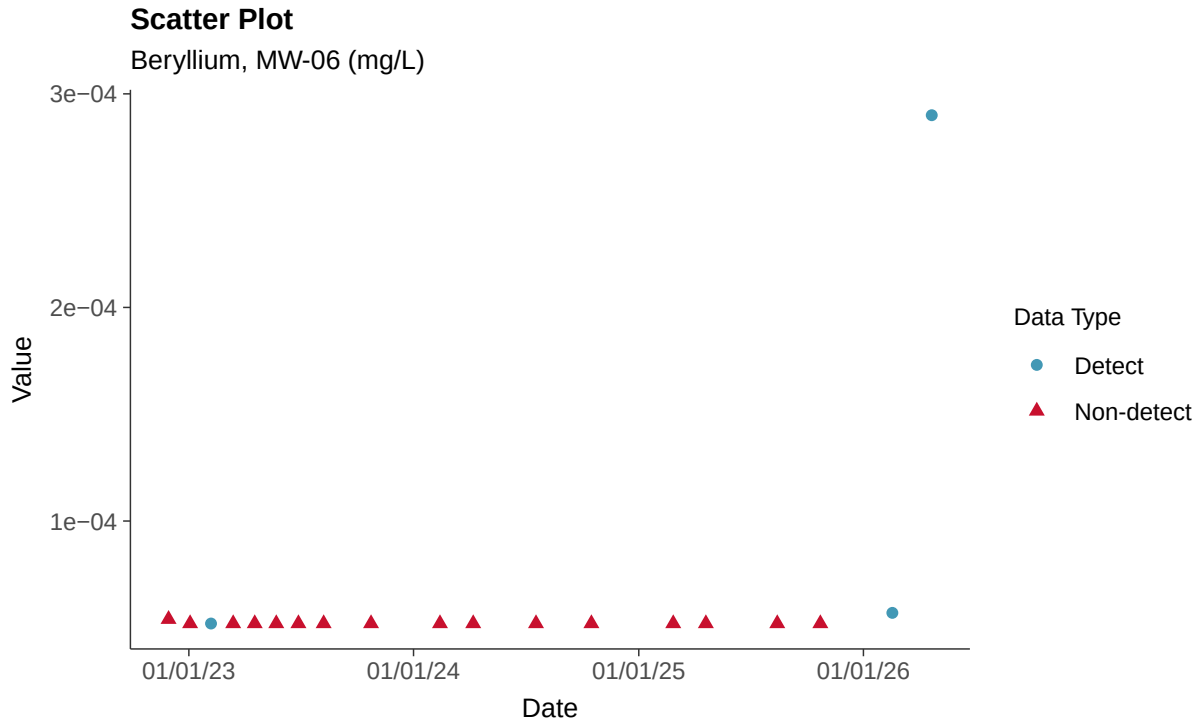
Trend Regression: Piecewise Linear-Linear-Linear

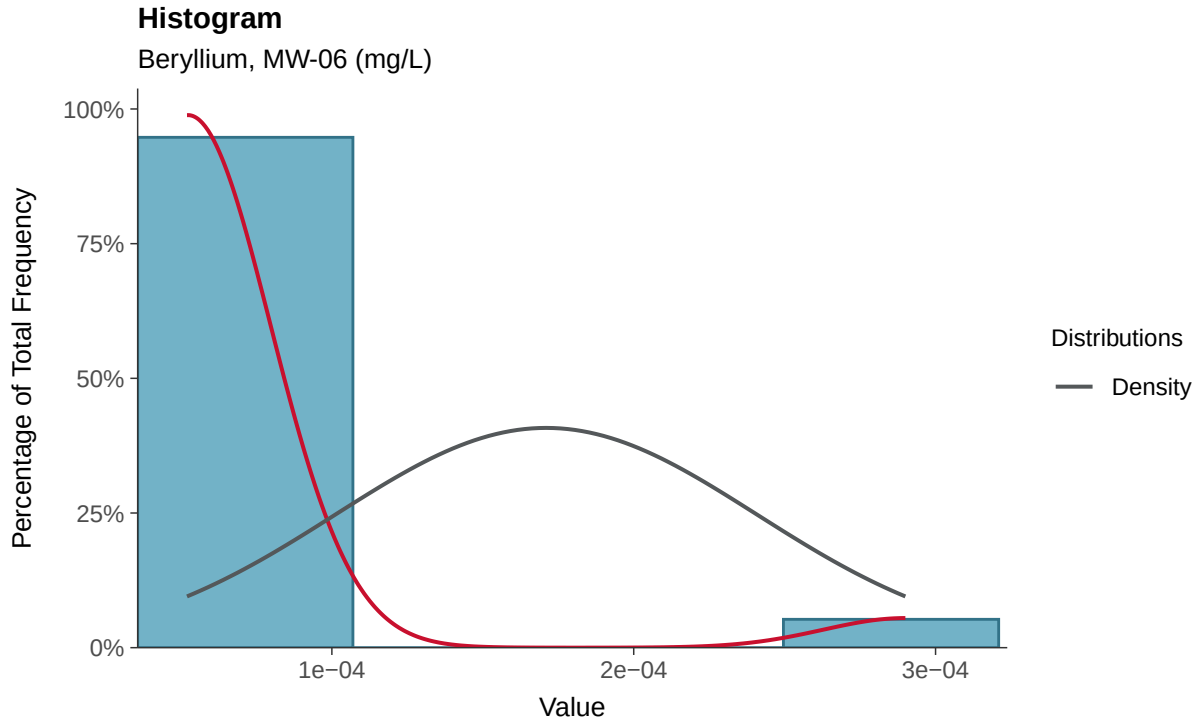
Barium, MW-06 (mg/L)



Appendix IV: Beryllium, MW-06

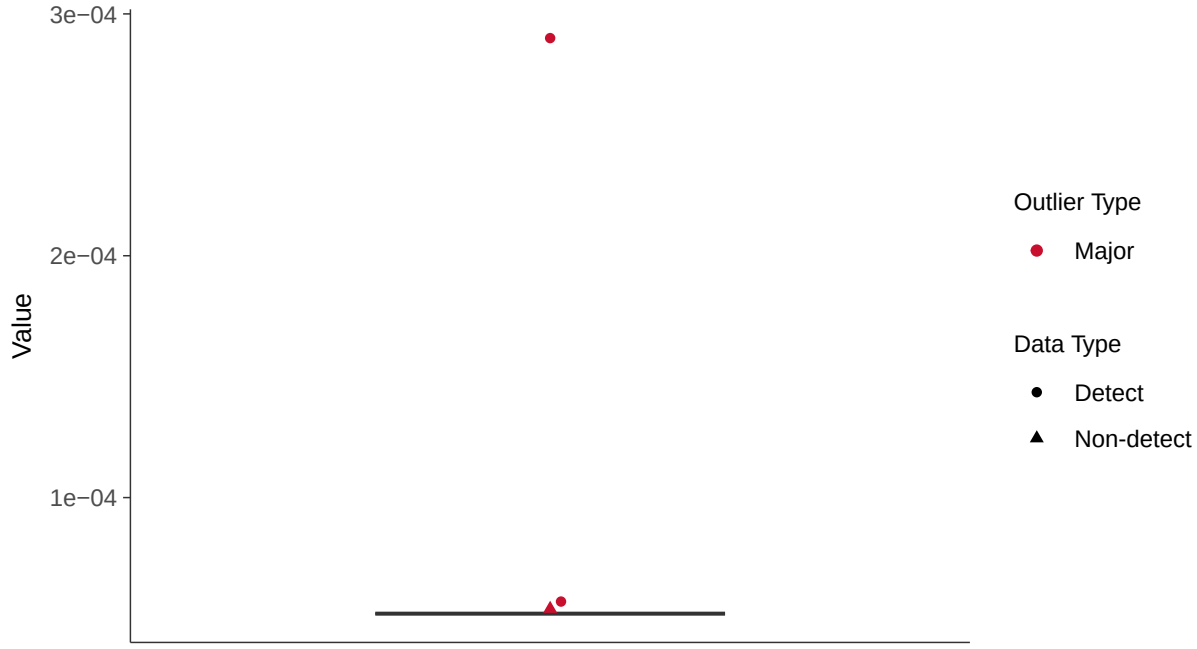
ID: 16_1_4_104





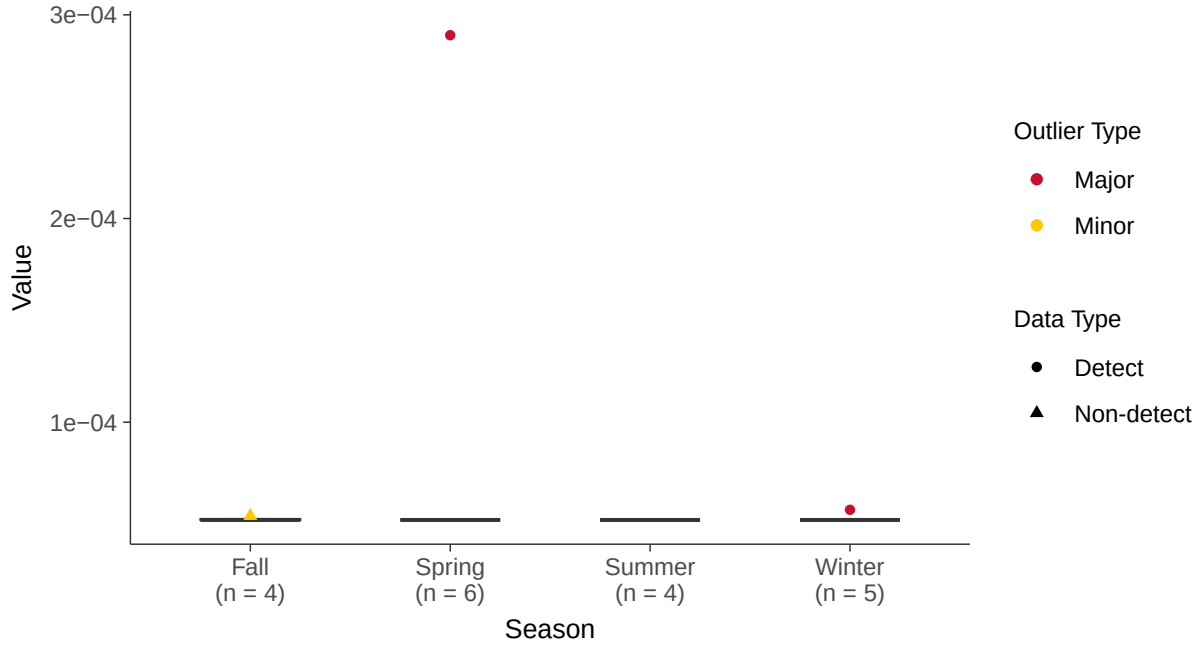
Boxplot

Beryllium, MW-06 (mg/L)



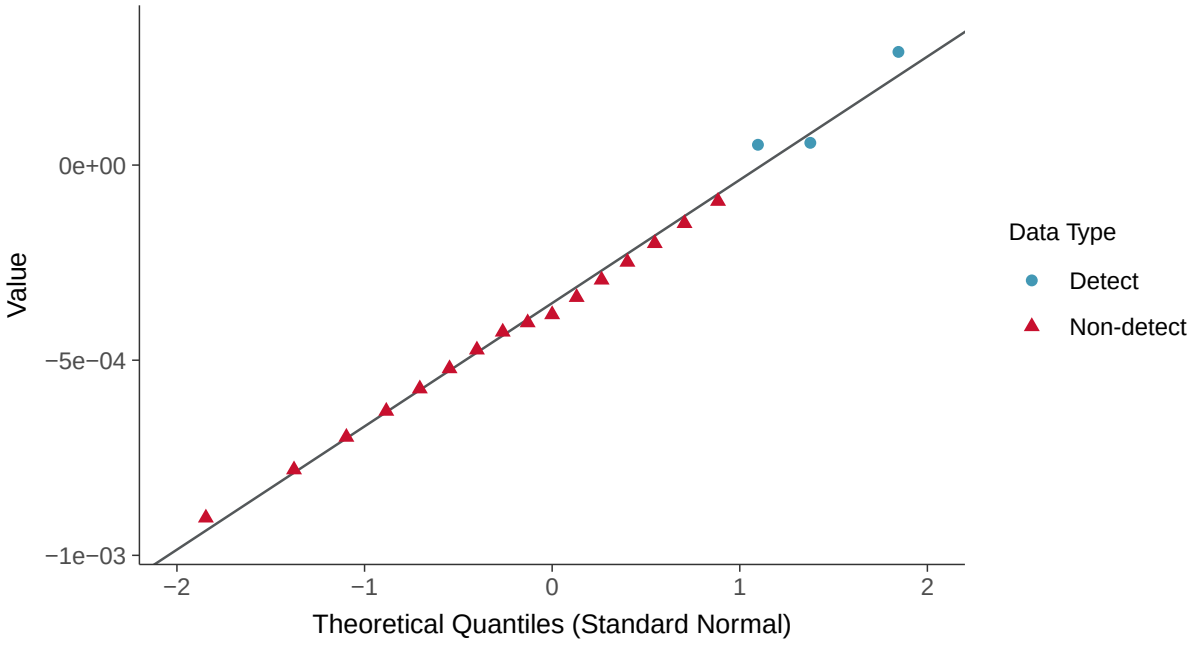
Boxplot by Season

Beryllium, MW-06 (mg/L)



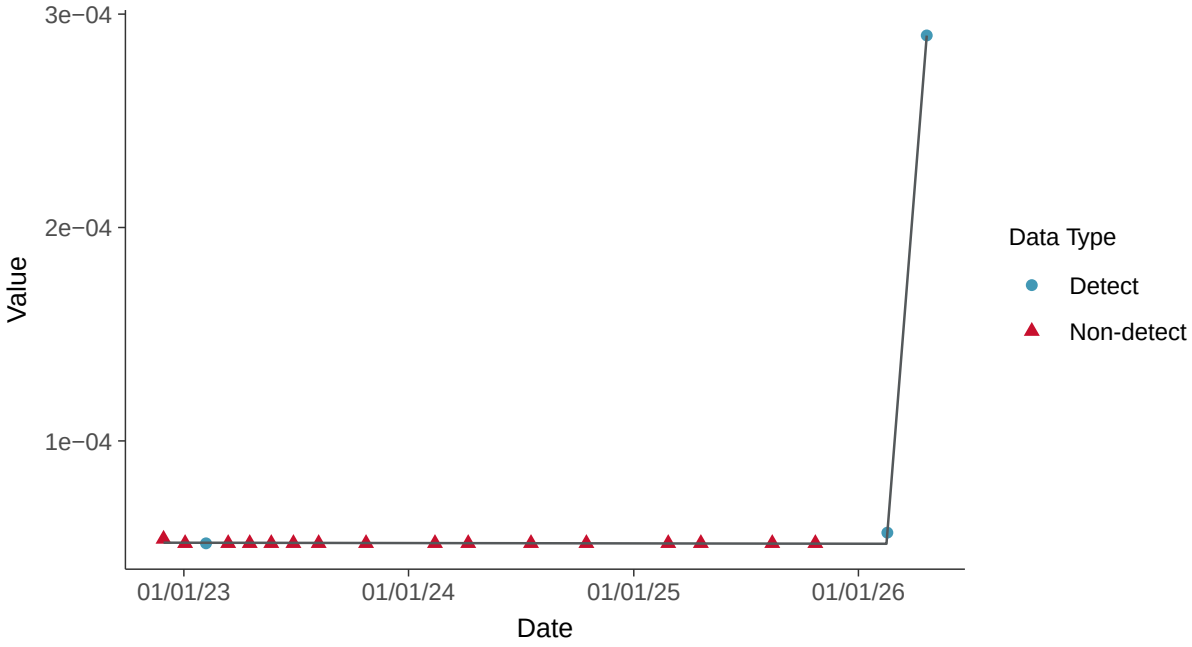
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-06 (mg/L)



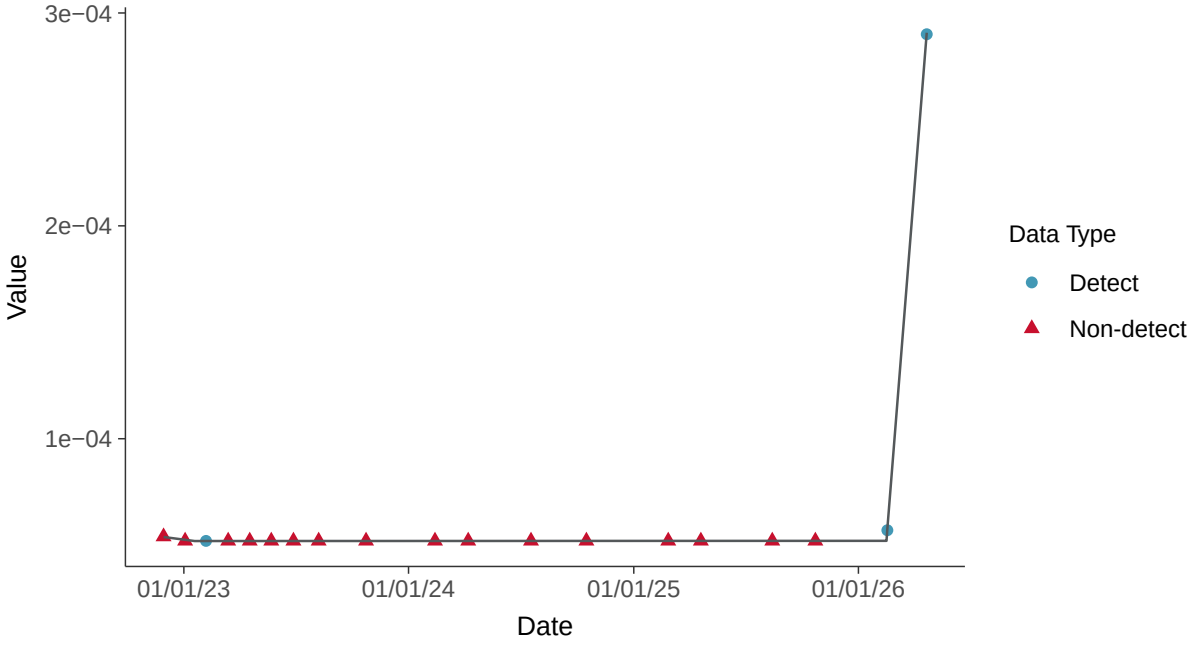
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-06 (mg/L)



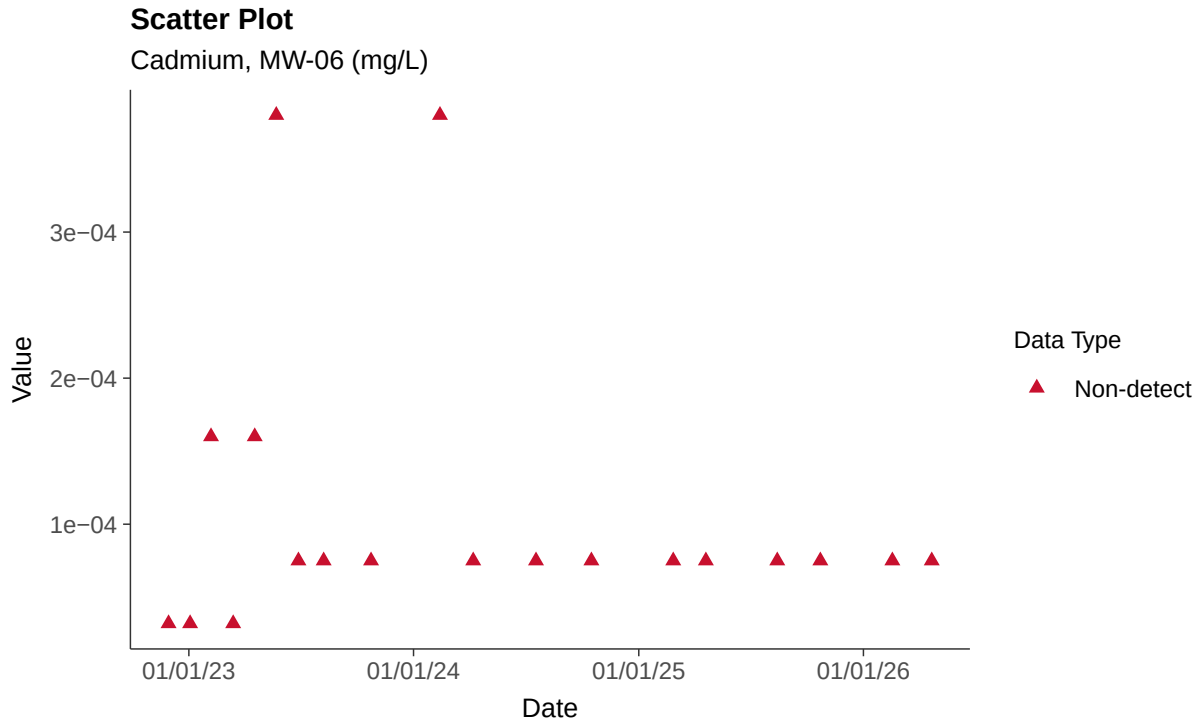
Trend Regression: Piecewise Linear-Linear-Linear

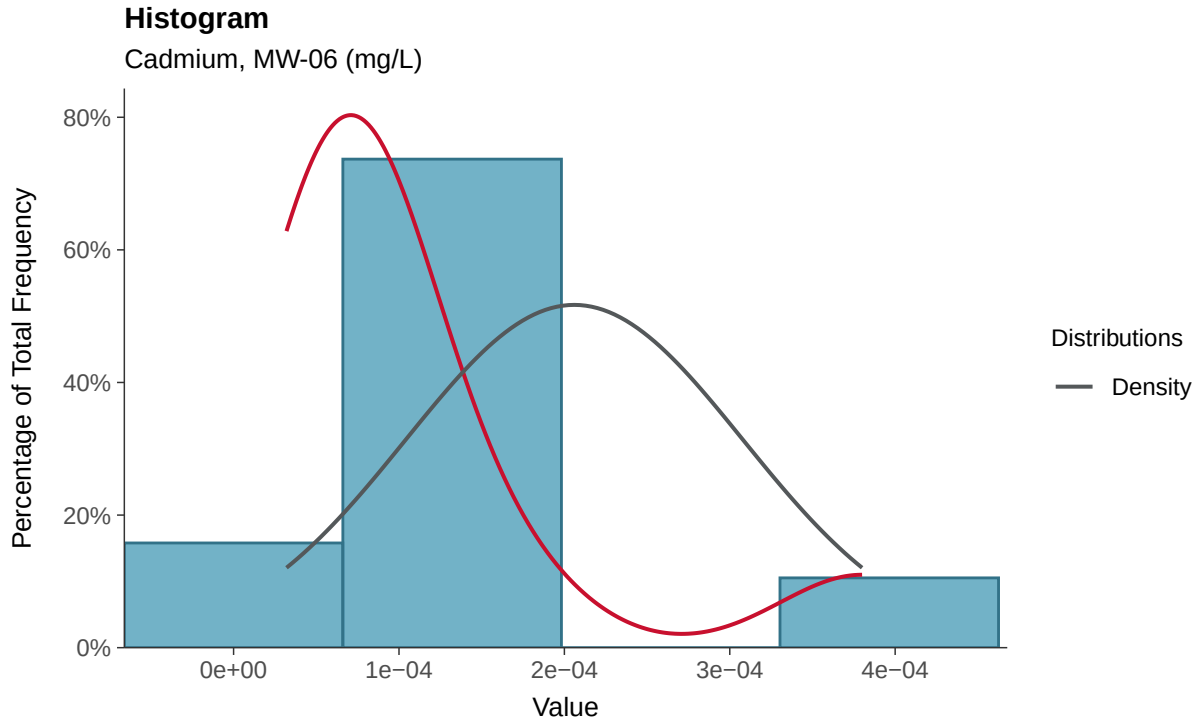
Beryllium, MW-06 (mg/L)



Appendix IV: Cadmium, MW-06

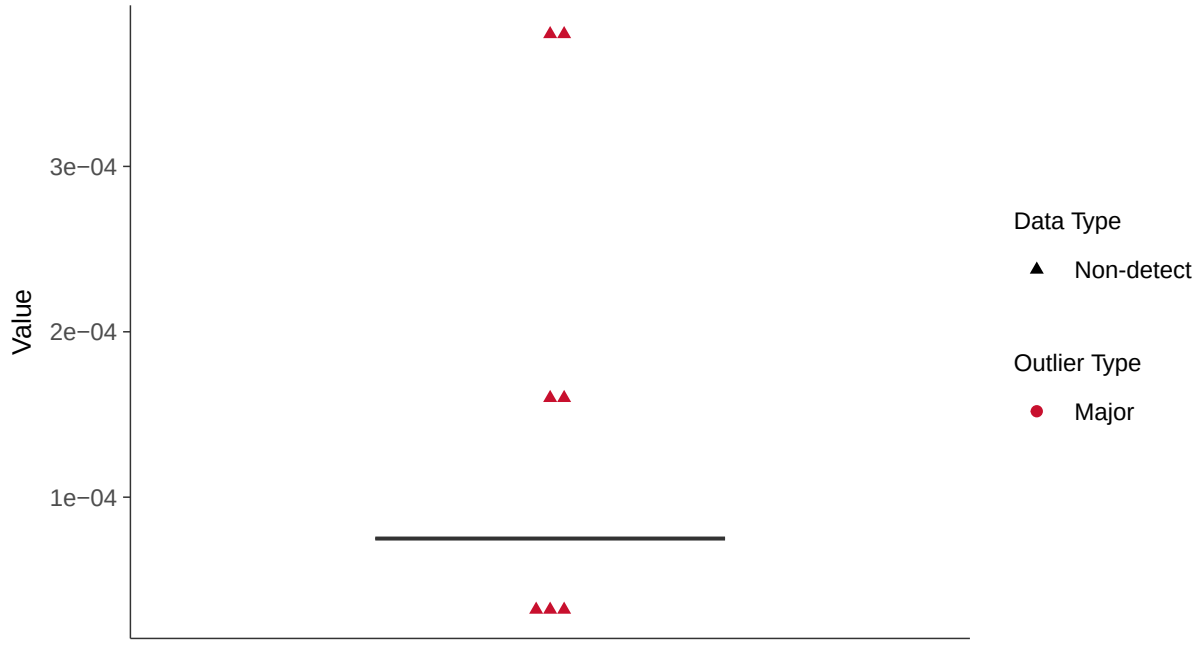
ID: 16_1_4_106





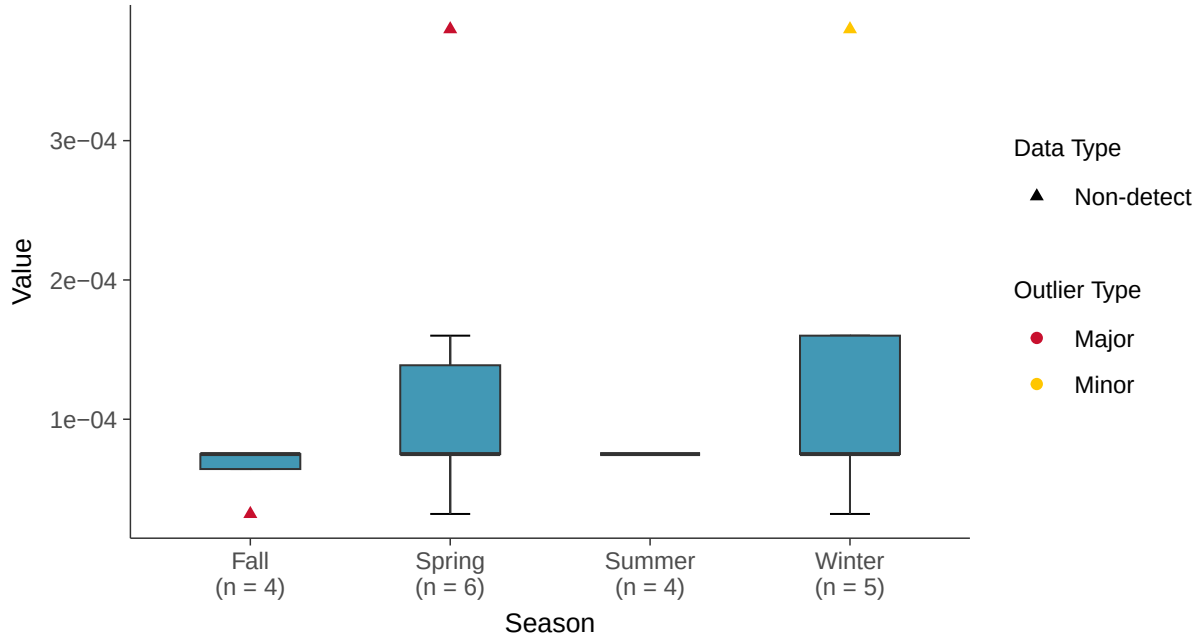
Boxplot

Cadmium, MW-06 (mg/L)



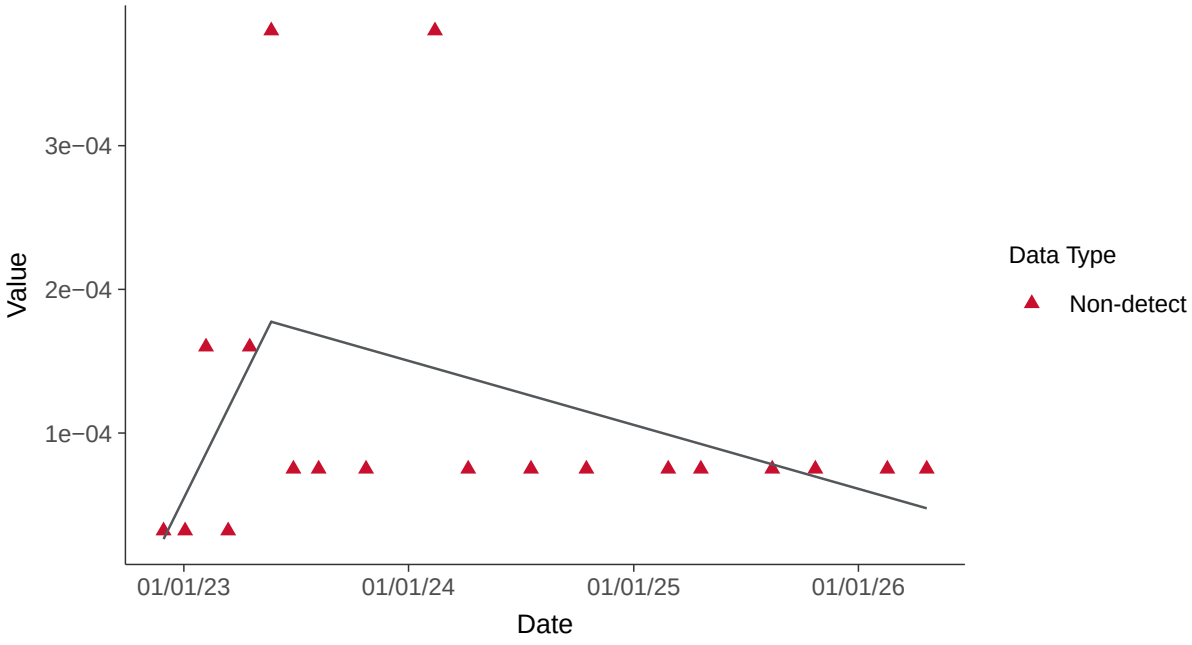
Boxplot by Season

Cadmium, MW-06 (mg/L)



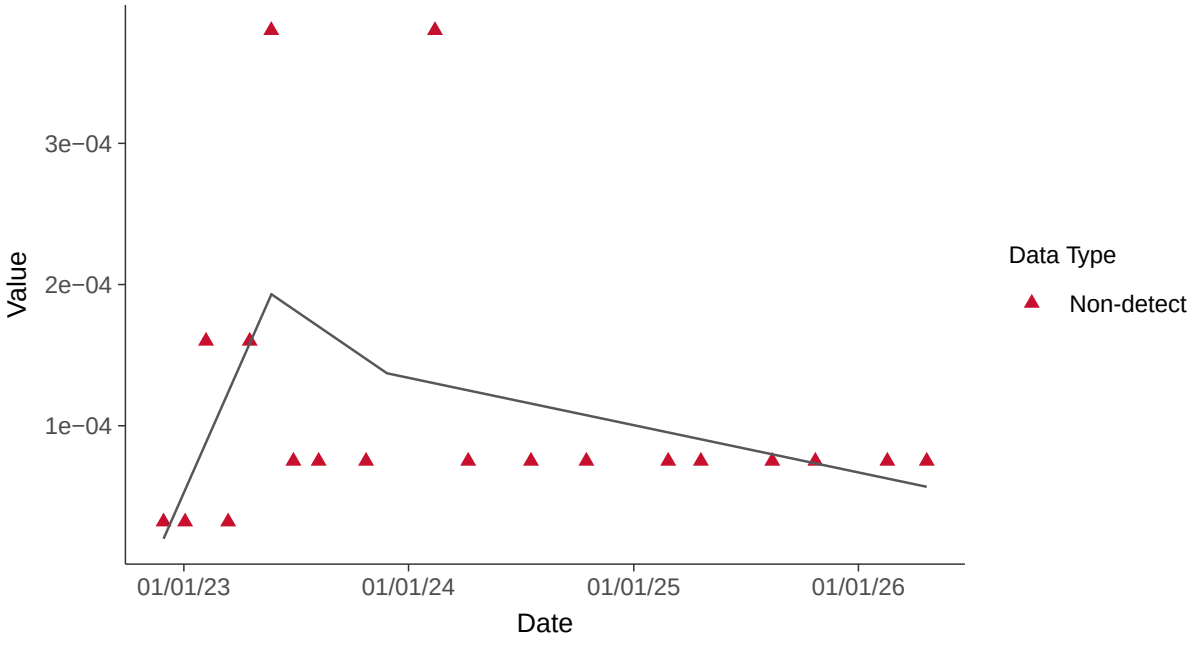
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-06 (mg/L)

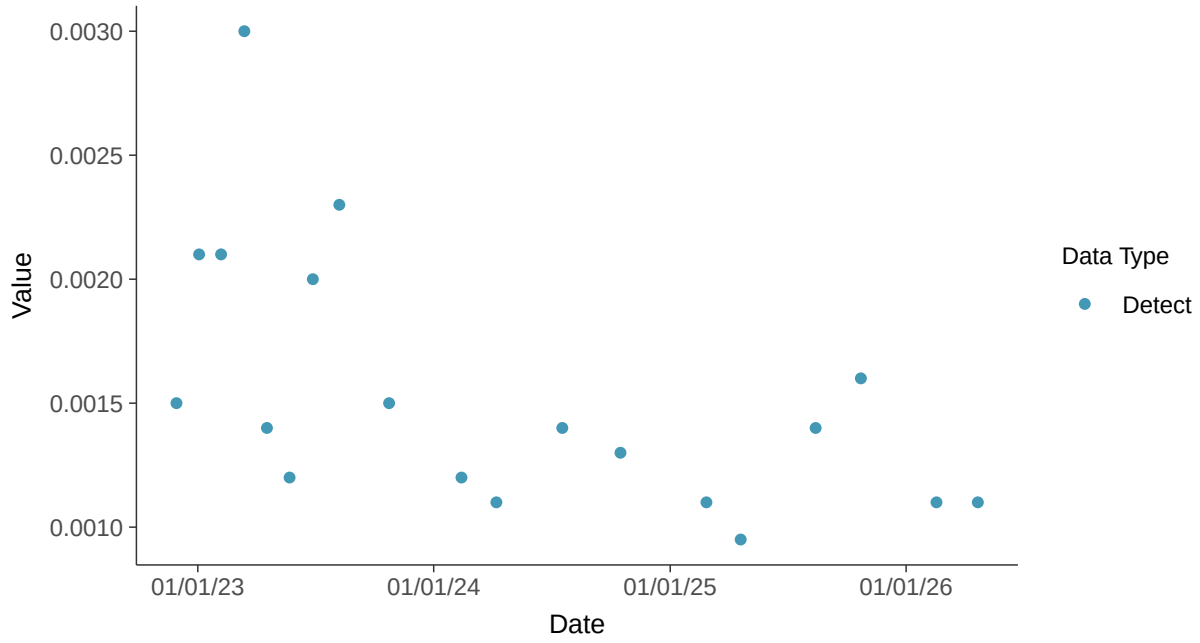


Appendix IV: Chromium, Total, MW-06

ID: 16_1_4_109

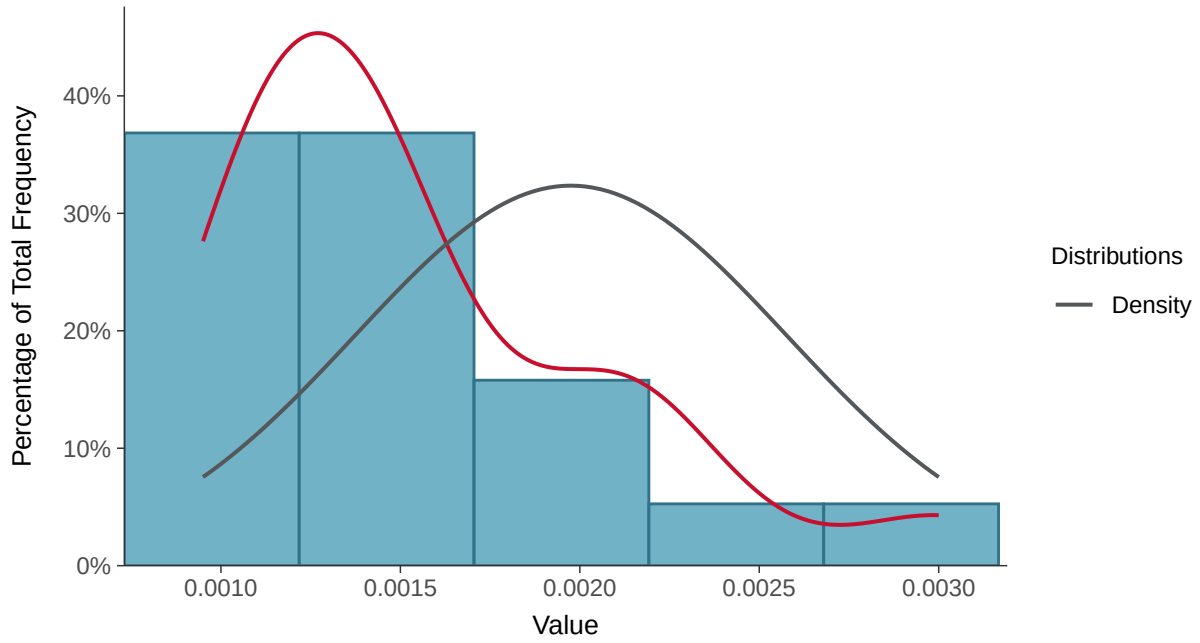
Scatter Plot

Chromium, Total, MW-06 (mg/L)



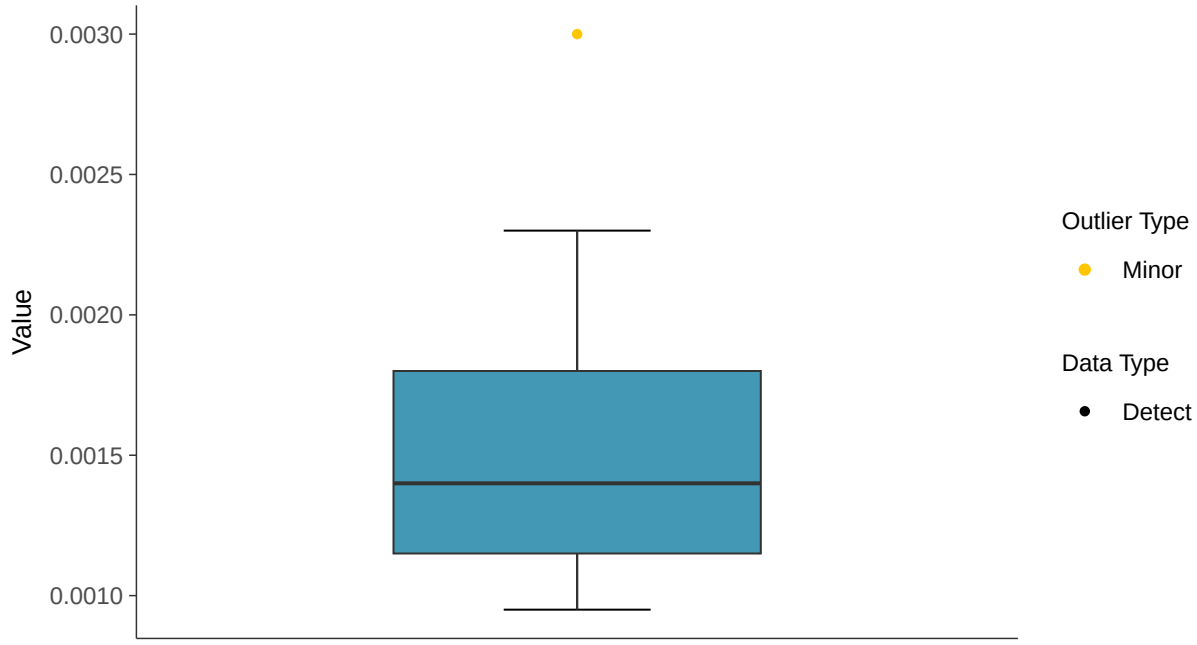
Histogram

Chromium, Total, MW-06 (mg/L)



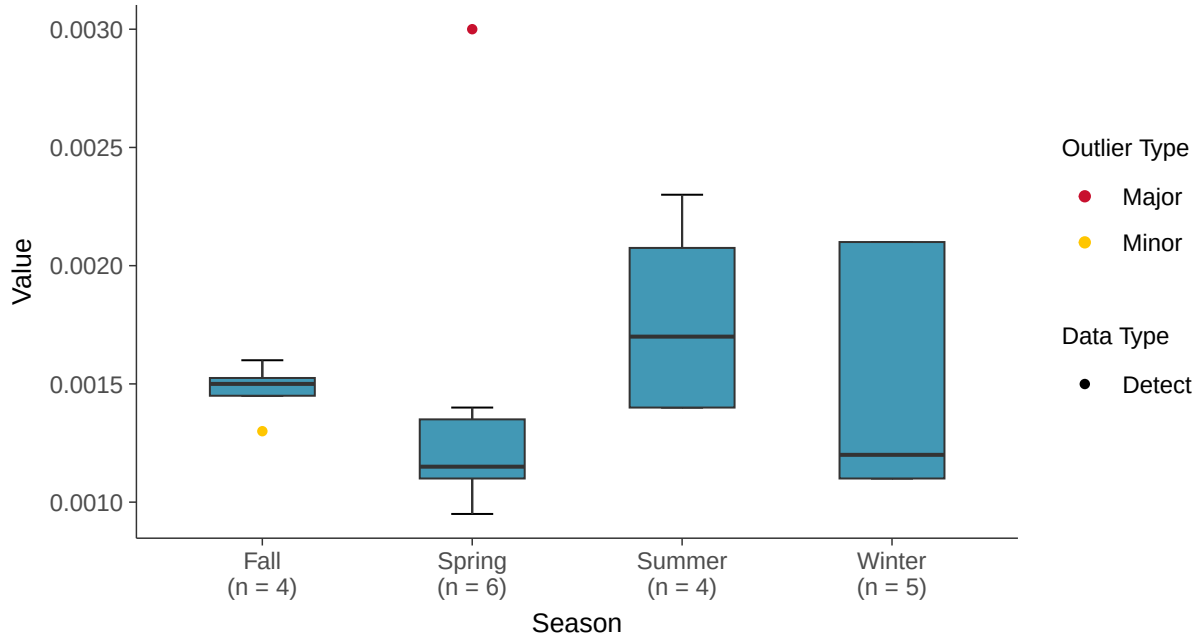
Boxplot

Chromium, Total, MW-06 (mg/L)



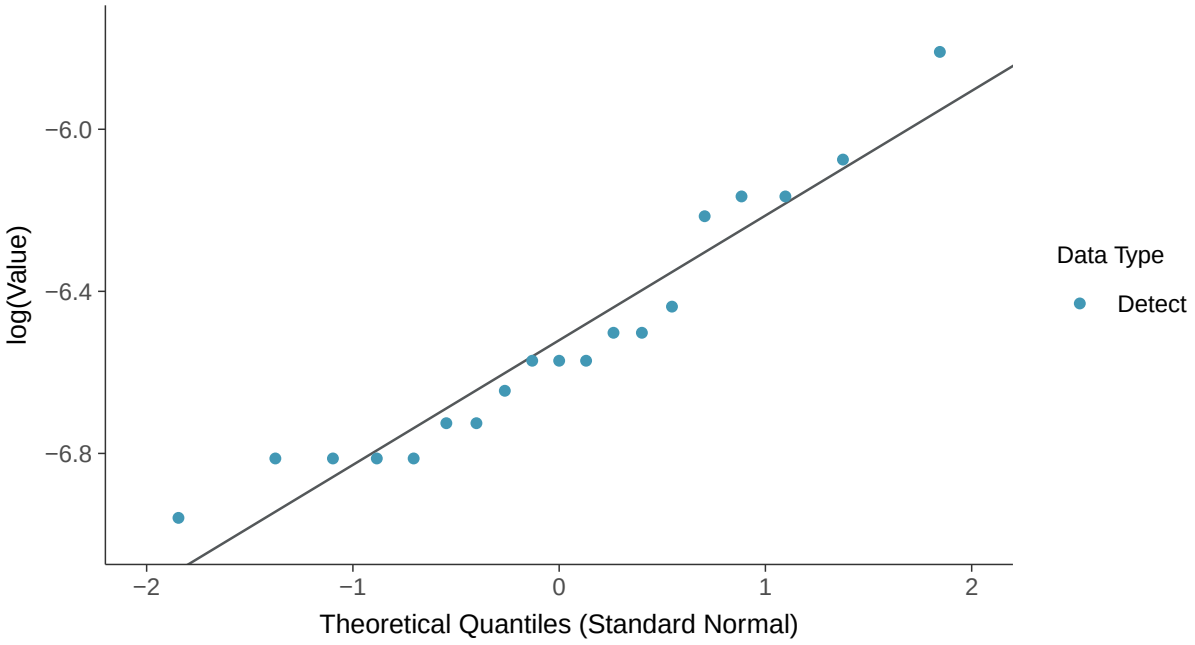
Boxplot by Season

Chromium, Total, MW-06 (mg/L)



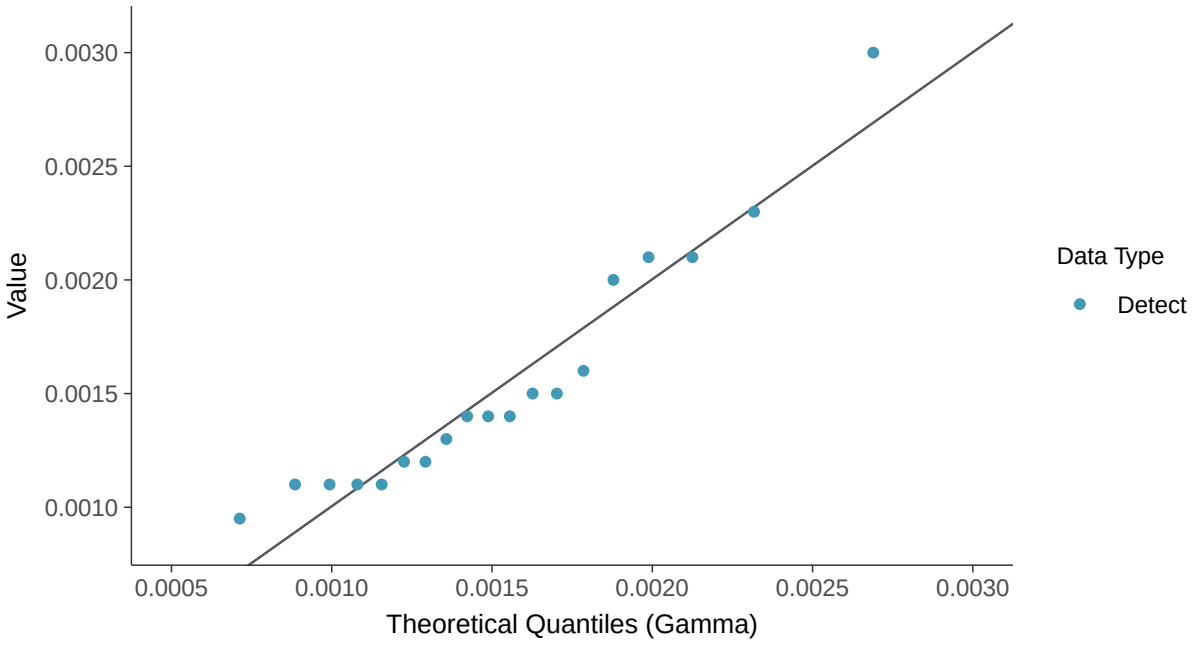
Lognormal Q-Q plot

Chromium, Total, MW-06 (mg/L)



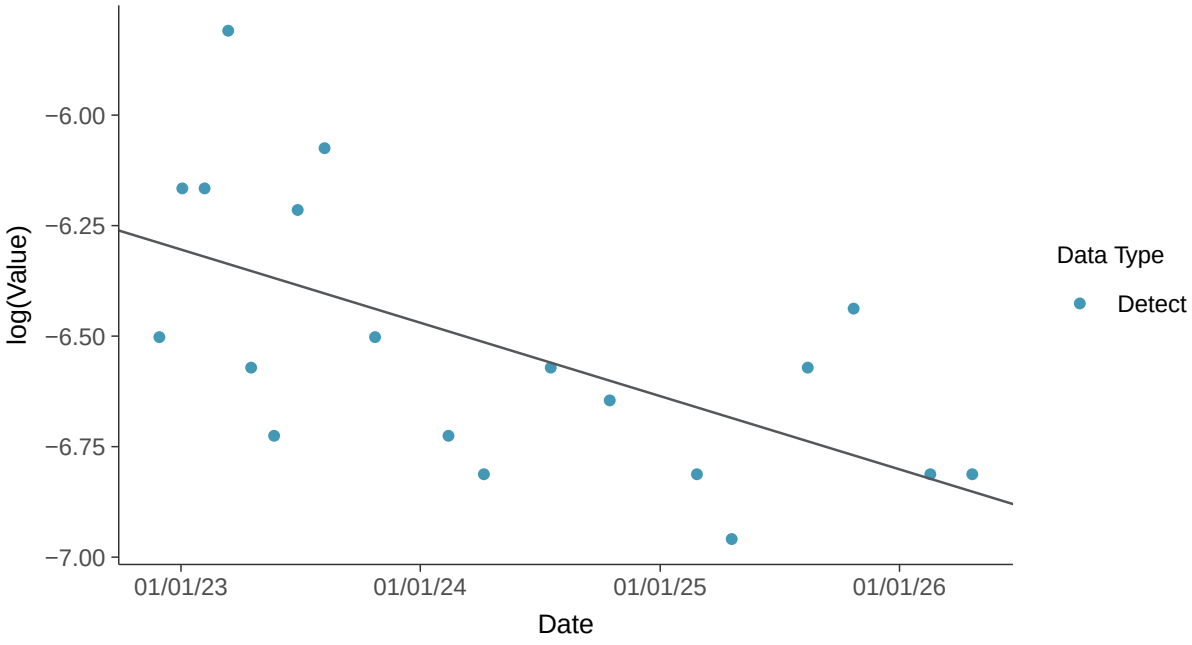
Gamma Q-Q plot

Chromium, Total, MW-06 (mg/L)



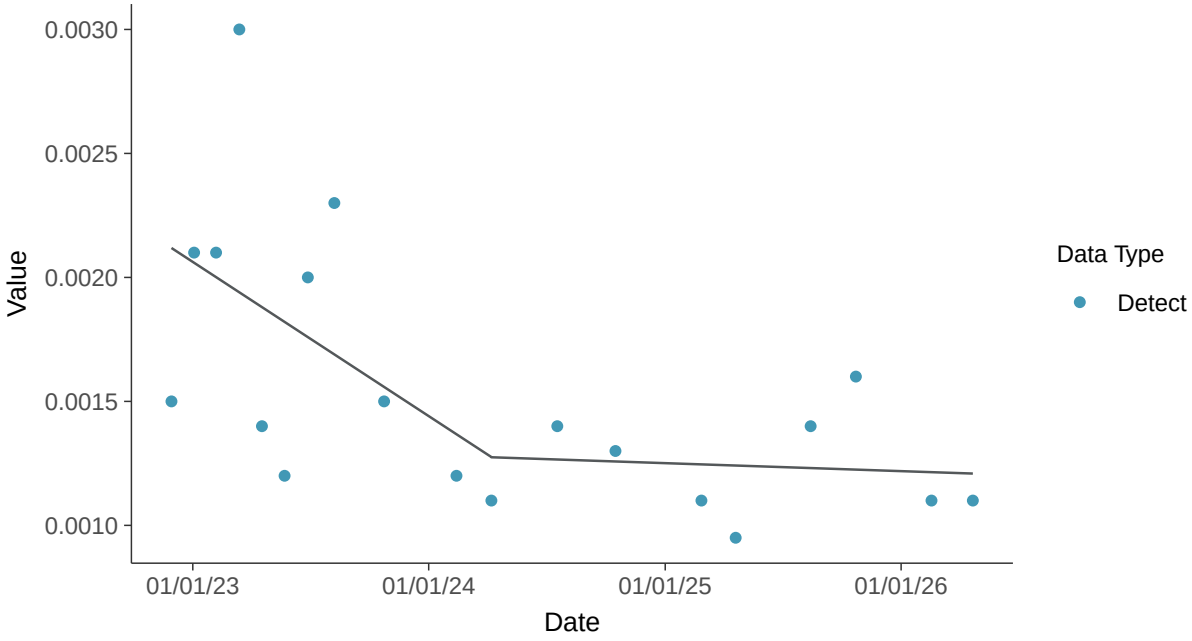
Trend Regression: Lognormal MLE

Chromium, Total, MW-06 (mg/L)



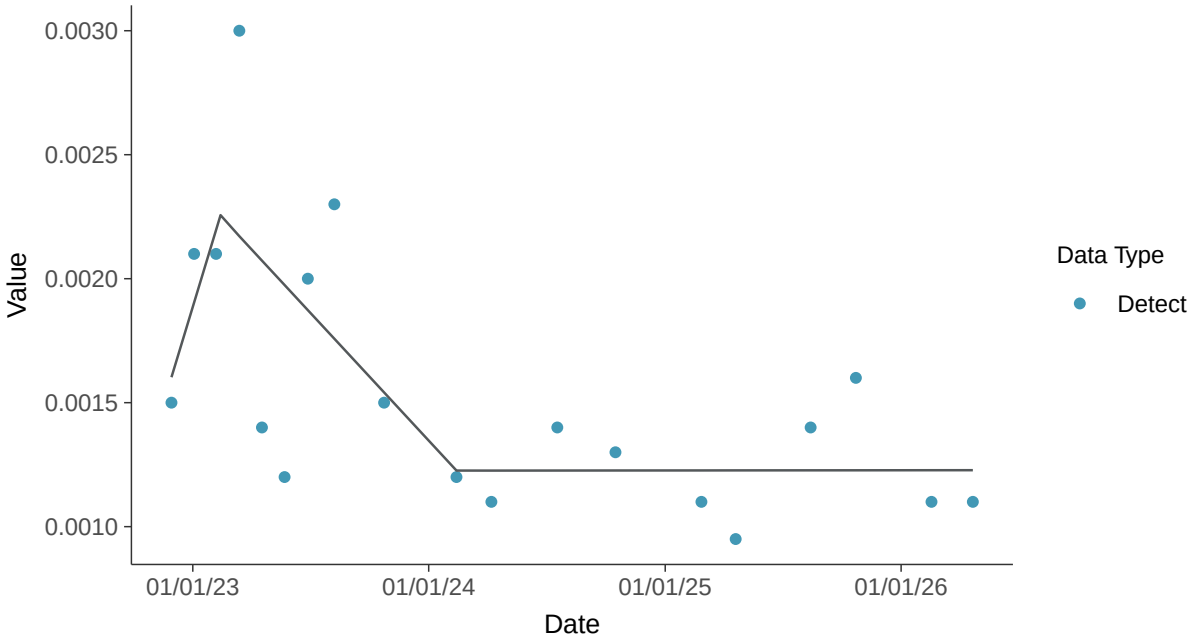
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-06 (mg/L)

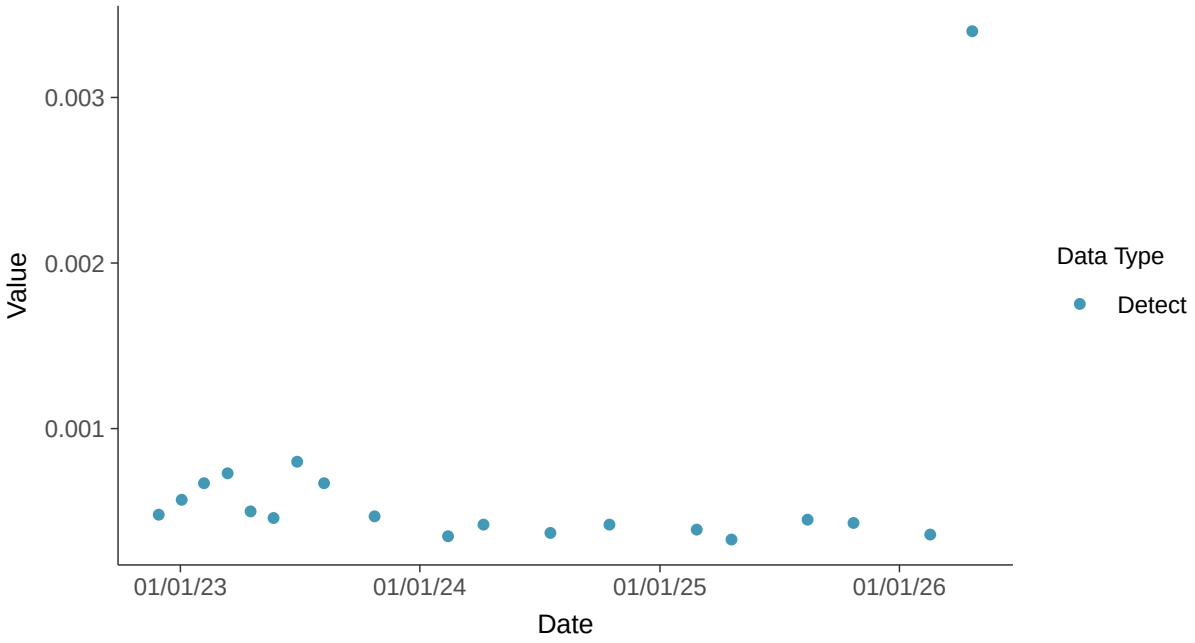


Appendix IV: Cobalt, MW-06

ID: 16_1_4_110

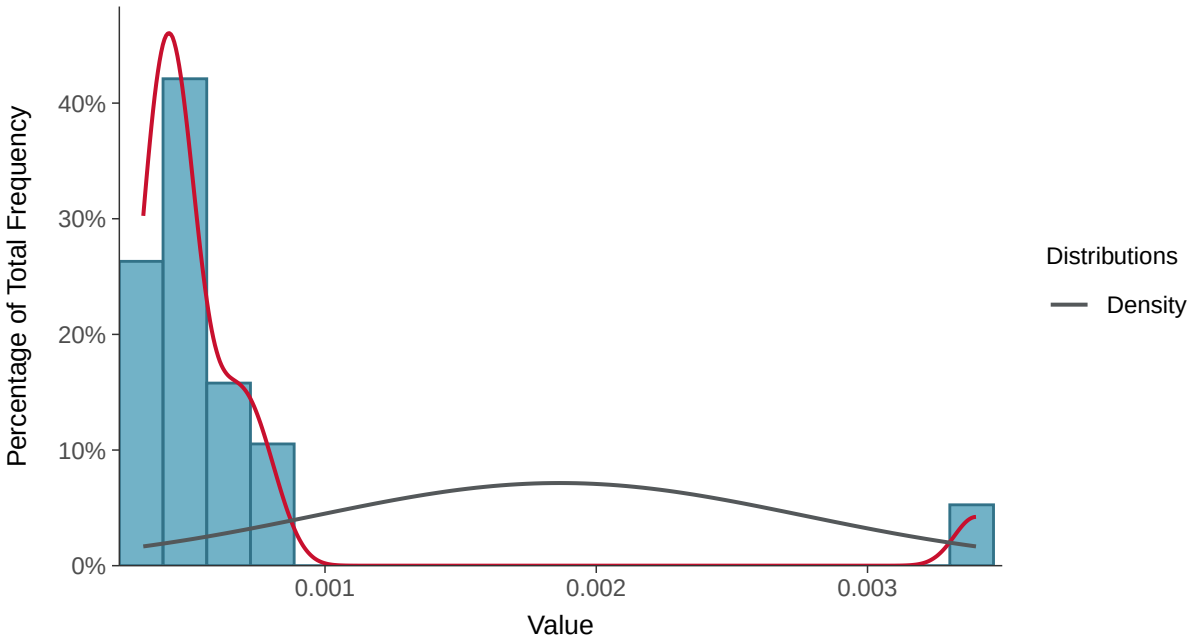
Scatter Plot

Cobalt, MW-06 (mg/L)



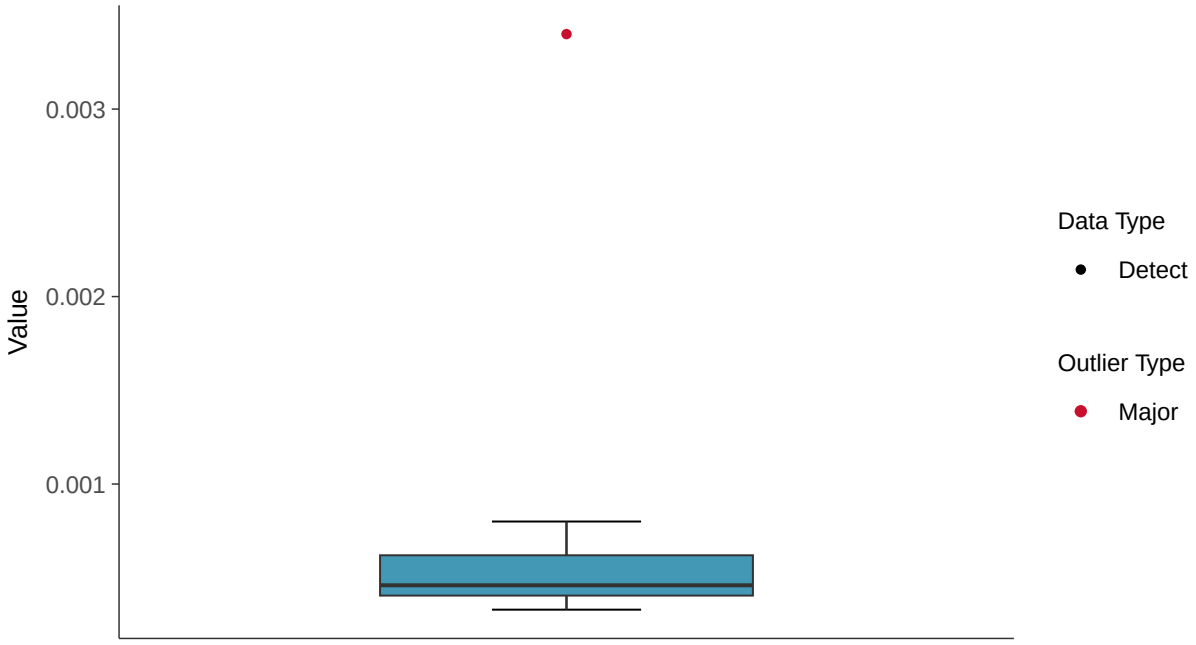
Histogram

Cobalt, MW-06 (mg/L)



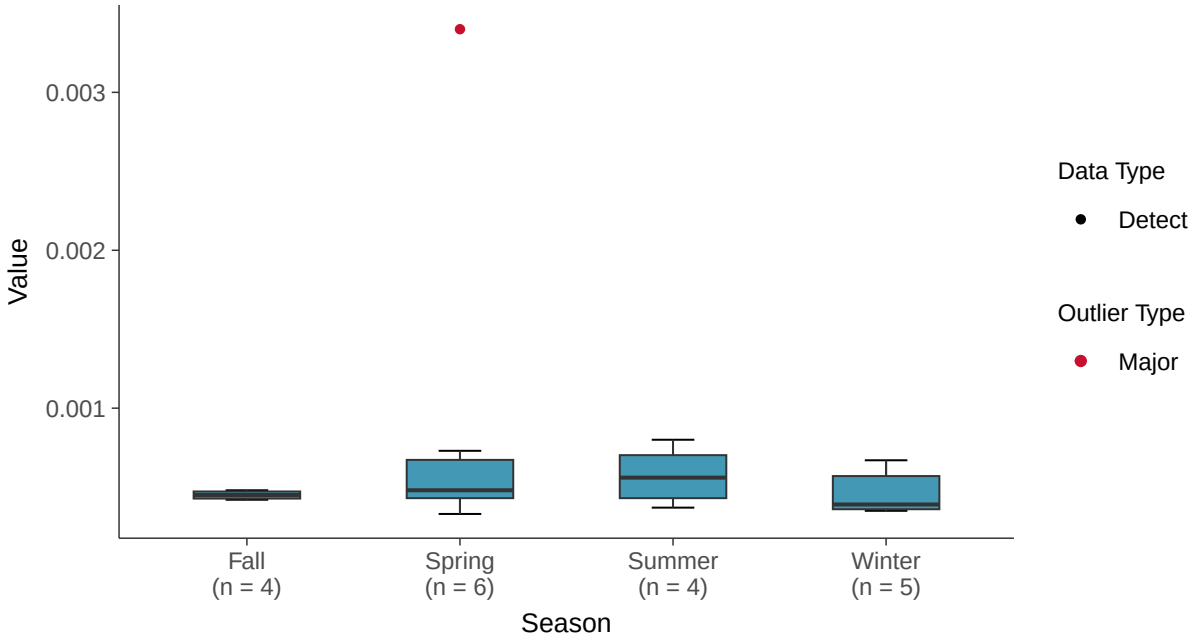
Boxplot

Cobalt, MW-06 (mg/L)



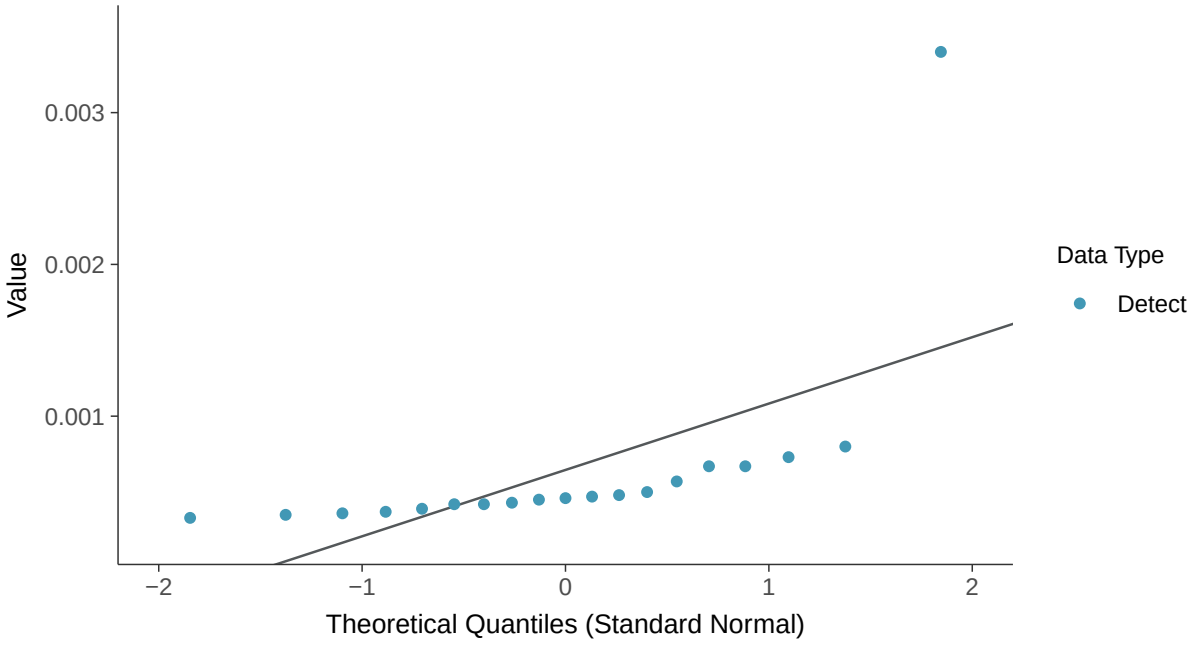
Boxplot by Season

Cobalt, MW-06 (mg/L)



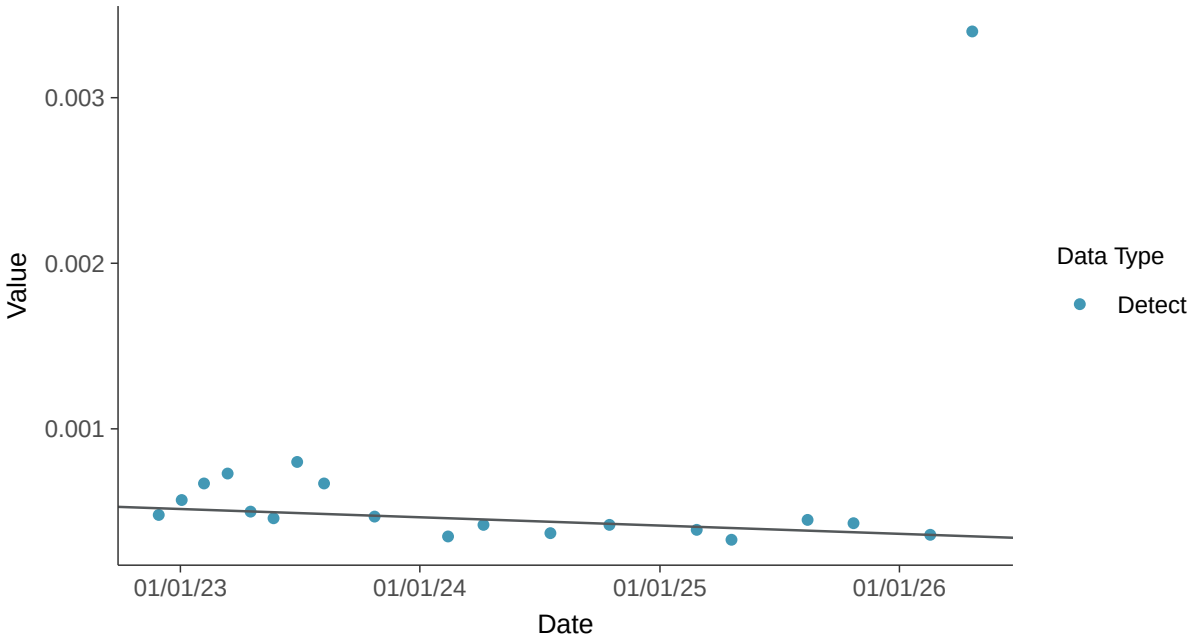
Normal Q-Q plot

Cobalt, MW-06 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-06 (mg/L)

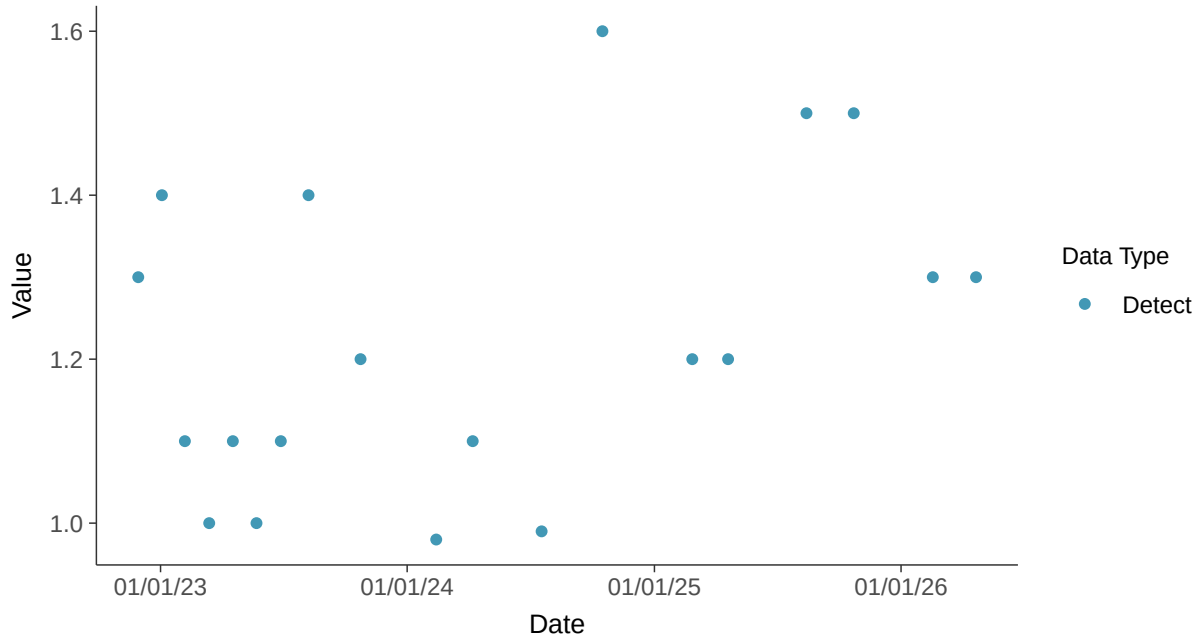


Appendix IV: Fluoride (App IV), MW-06

ID: 16_1_4_113

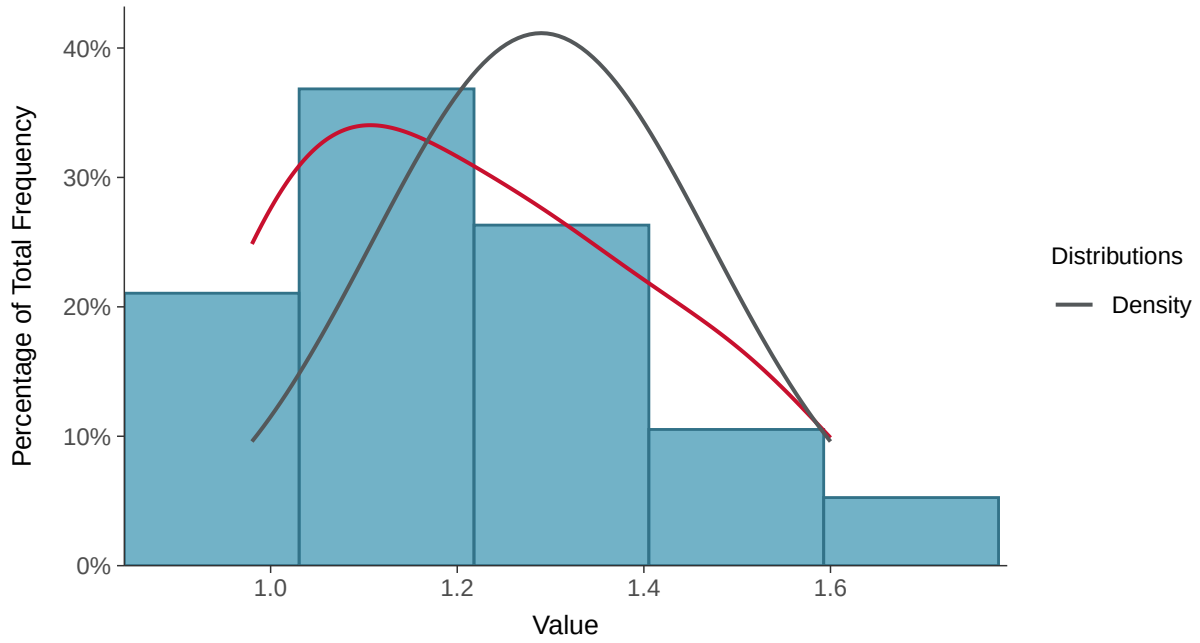
Scatter Plot

Fluoride (App IV), MW-06 (mg/L)



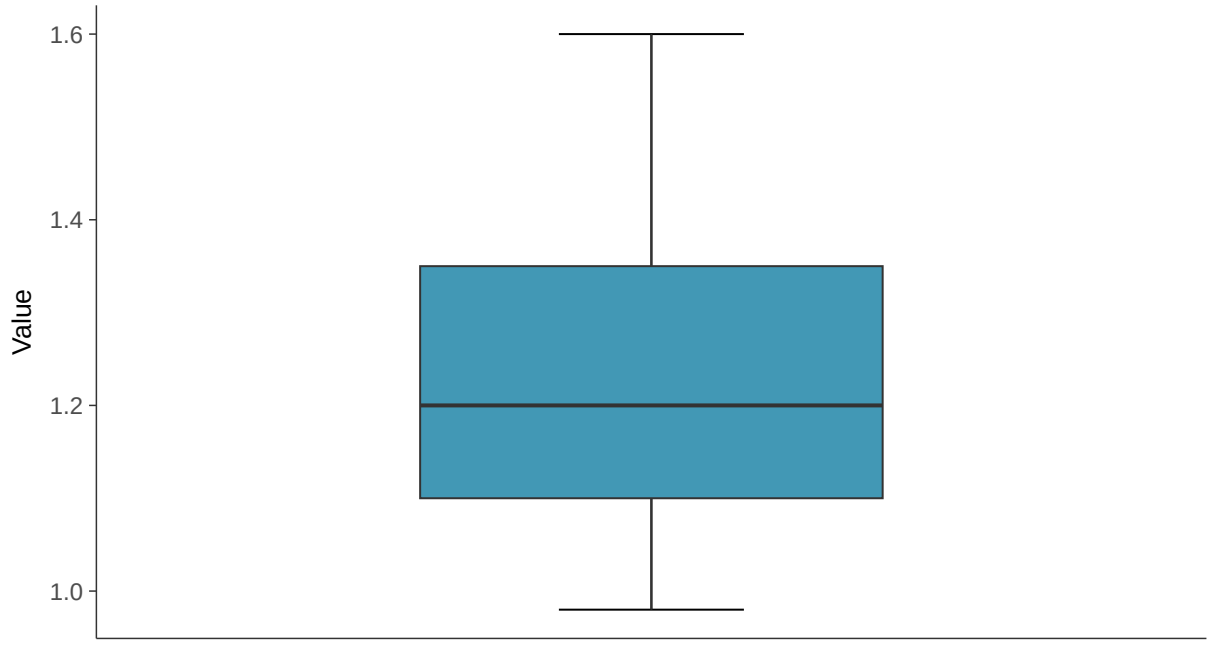
Histogram

Fluoride (App IV), MW-06 (mg/L)



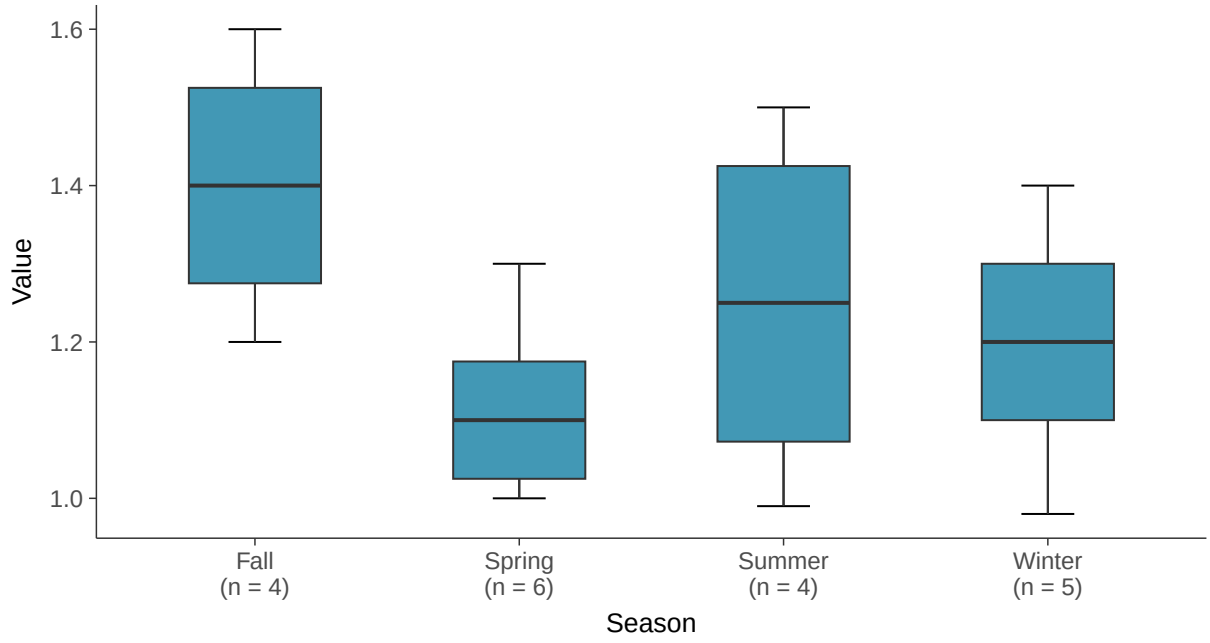
Boxplot

Fluoride (App IV), MW-06 (mg/L)



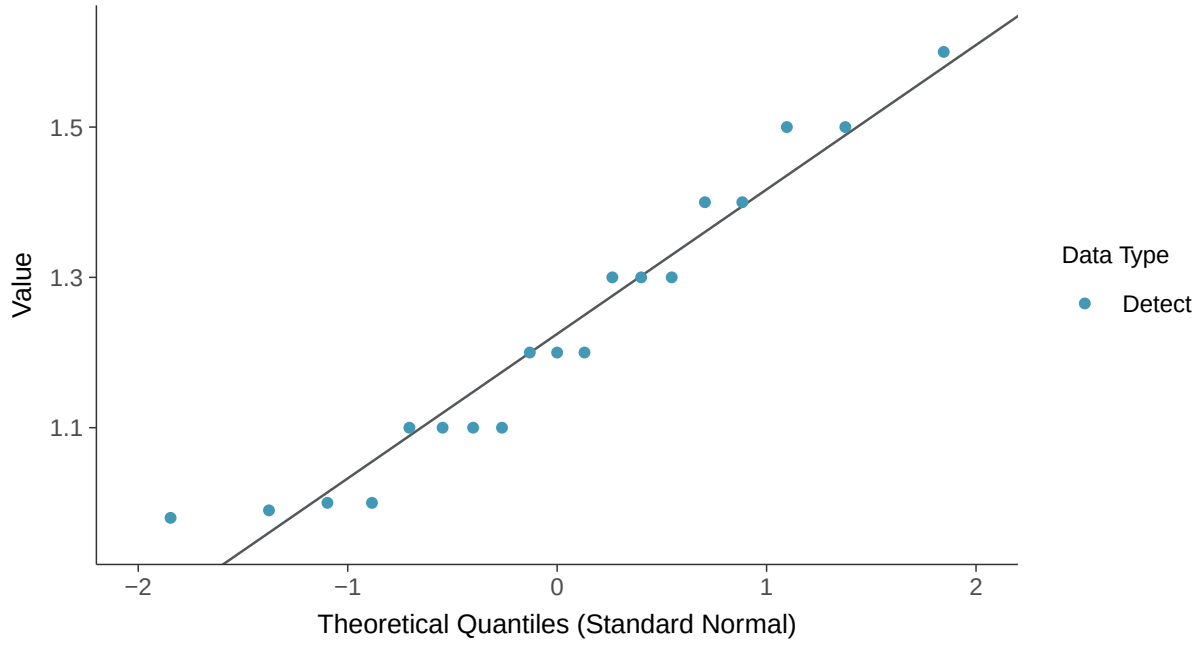
Boxplot by Season

Fluoride (App IV), MW-06 (mg/L)



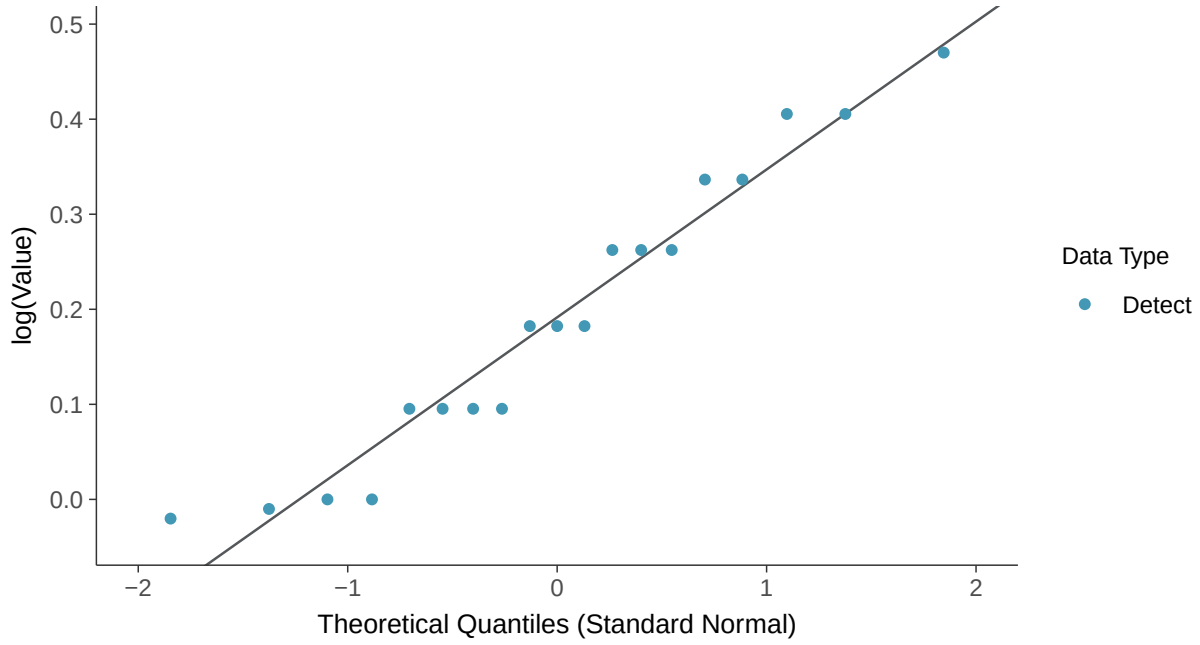
Normal Q-Q plot

Fluoride (App IV), MW-06 (mg/L)



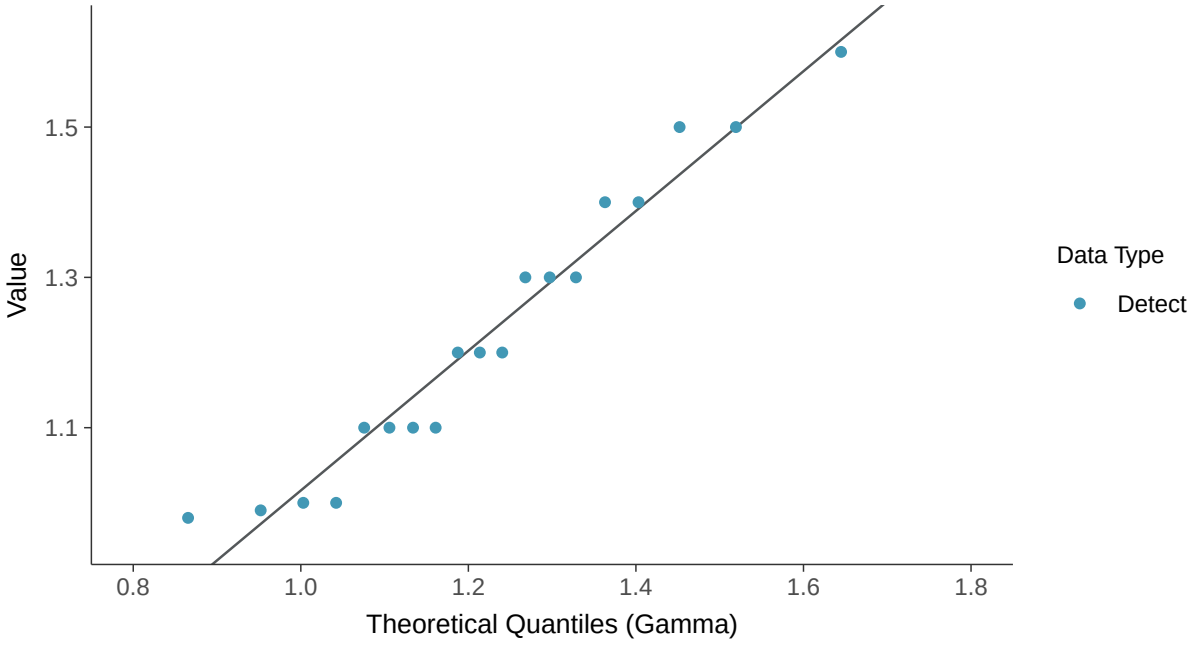
Lognormal Q-Q plot

Fluoride (App IV), MW-06 (mg/L)



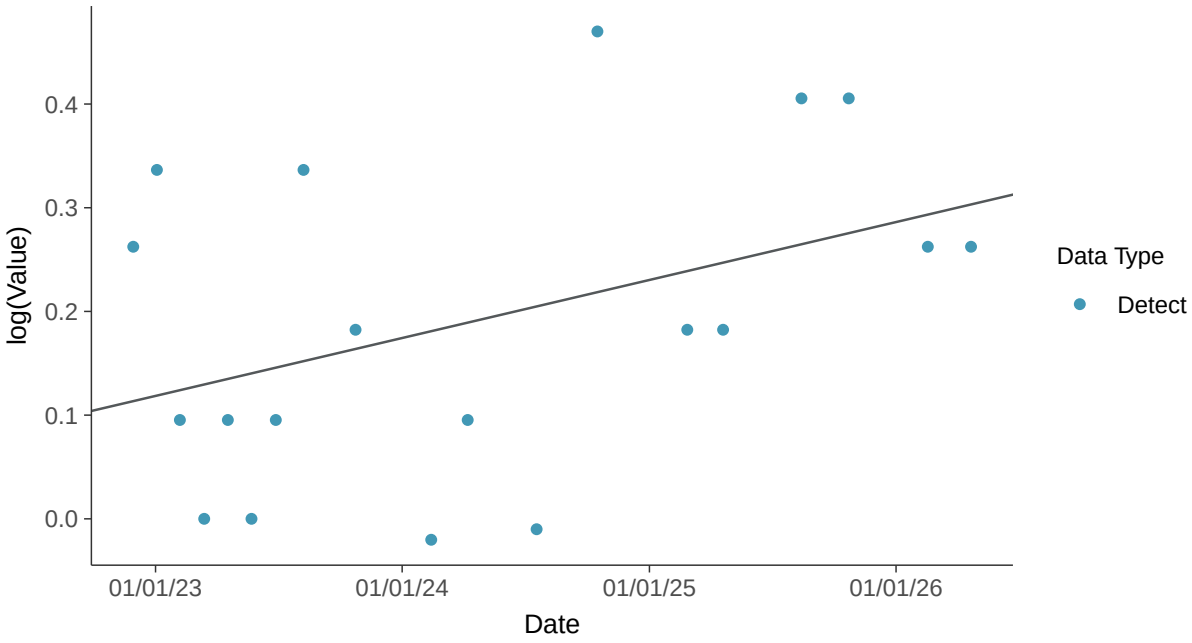
Gamma Q-Q plot

Fluoride (App IV), MW-06 (mg/L)



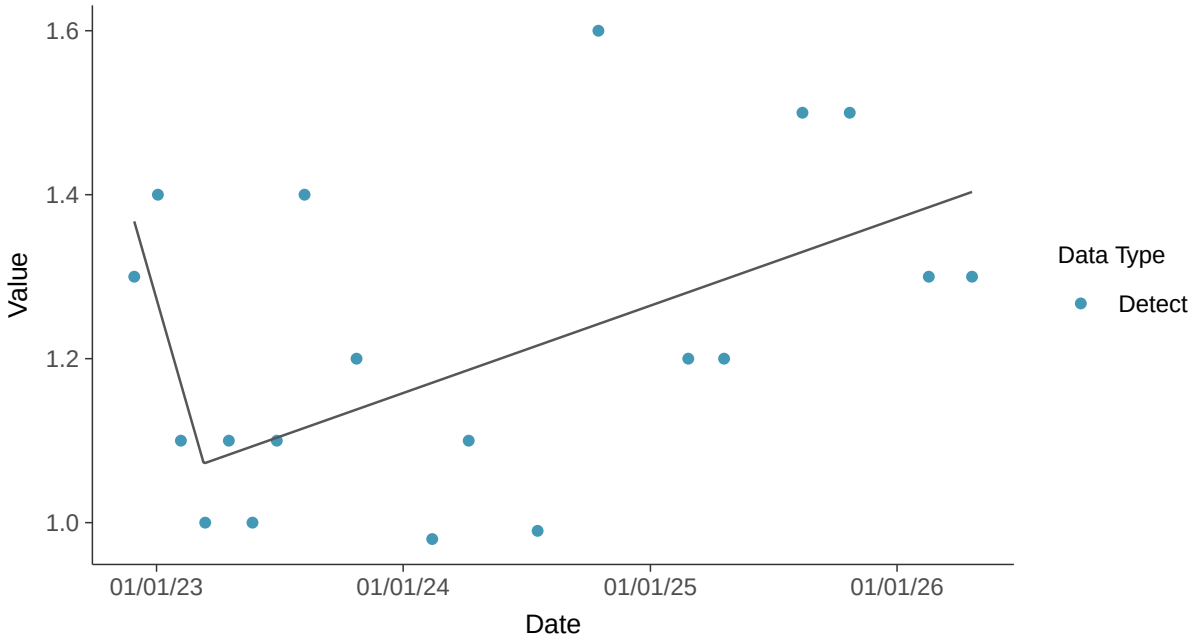
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-06 (mg/L)



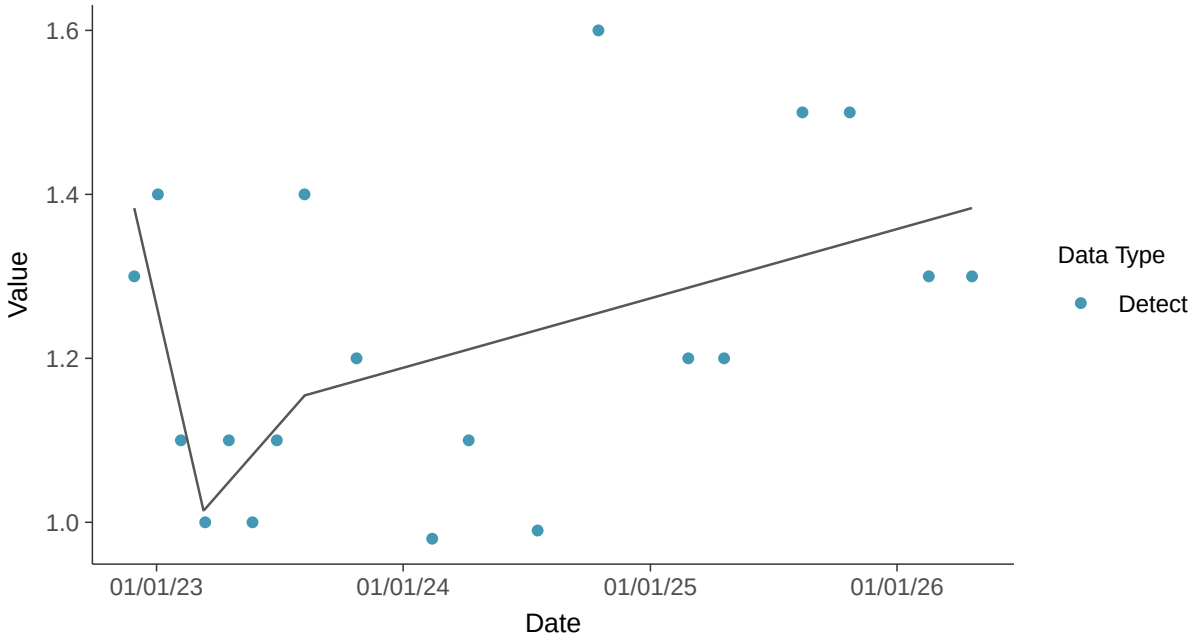
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-06 (mg/L)



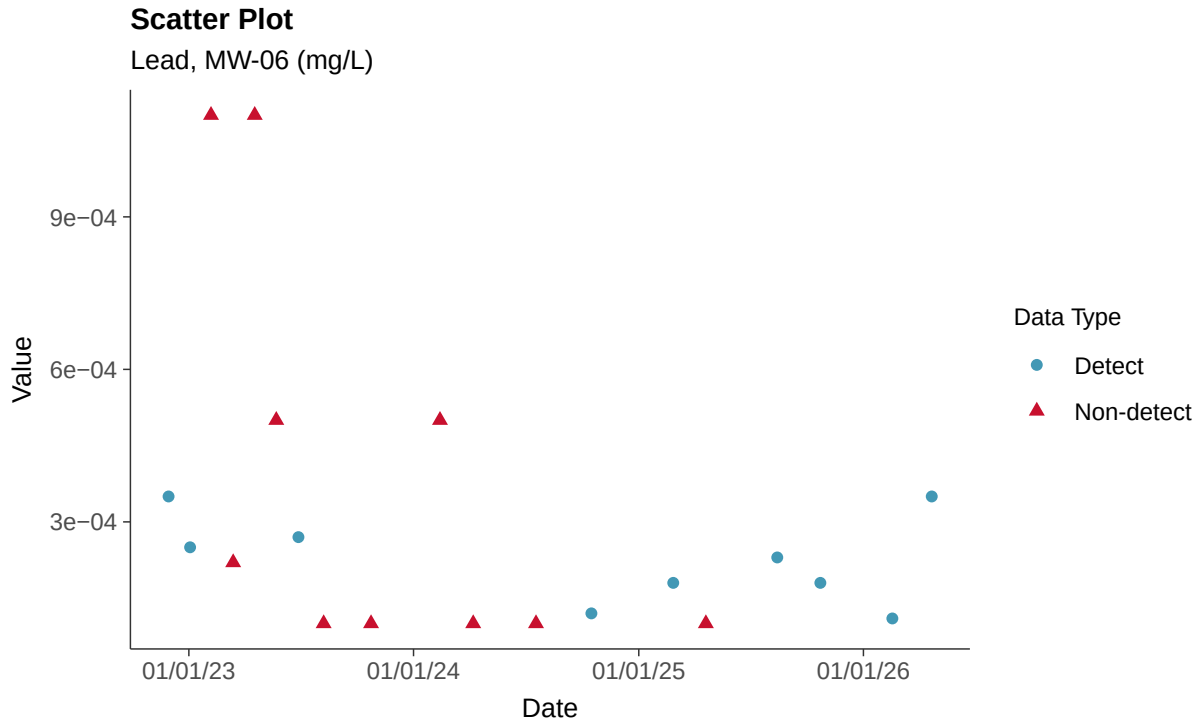
Trend Regression: Piecewise Linear-Linear-Linear

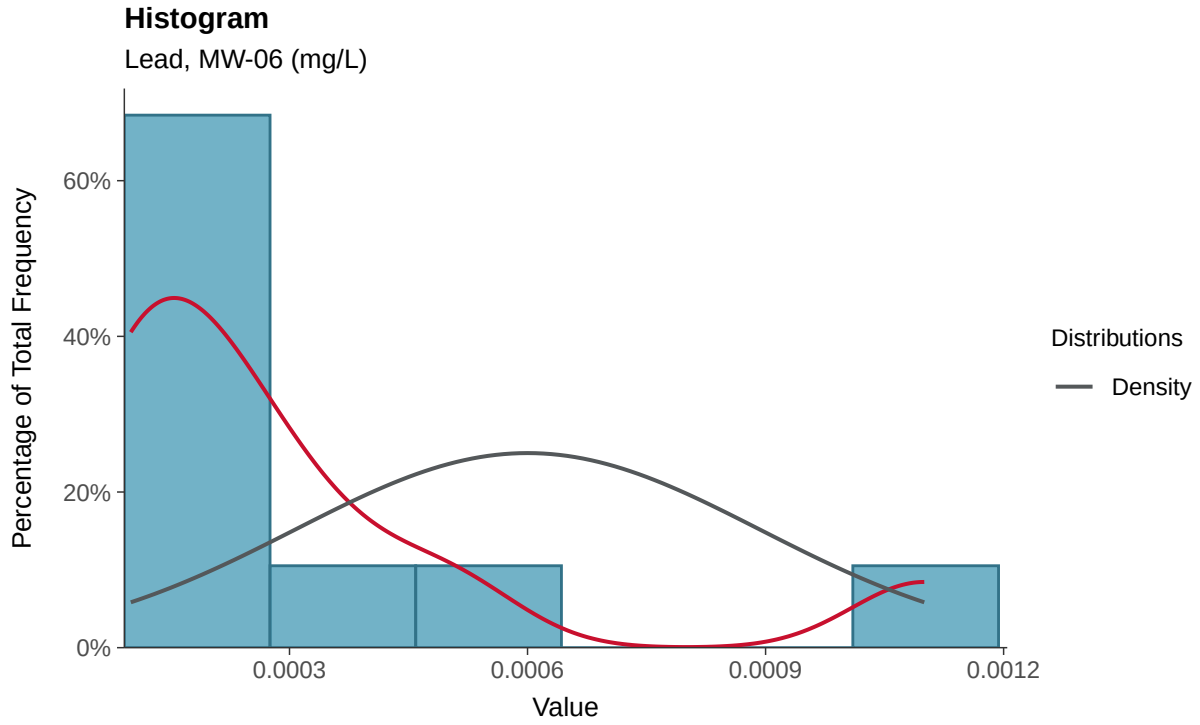
Fluoride (App IV), MW-06 (mg/L)



Appendix IV: Lead, MW-06

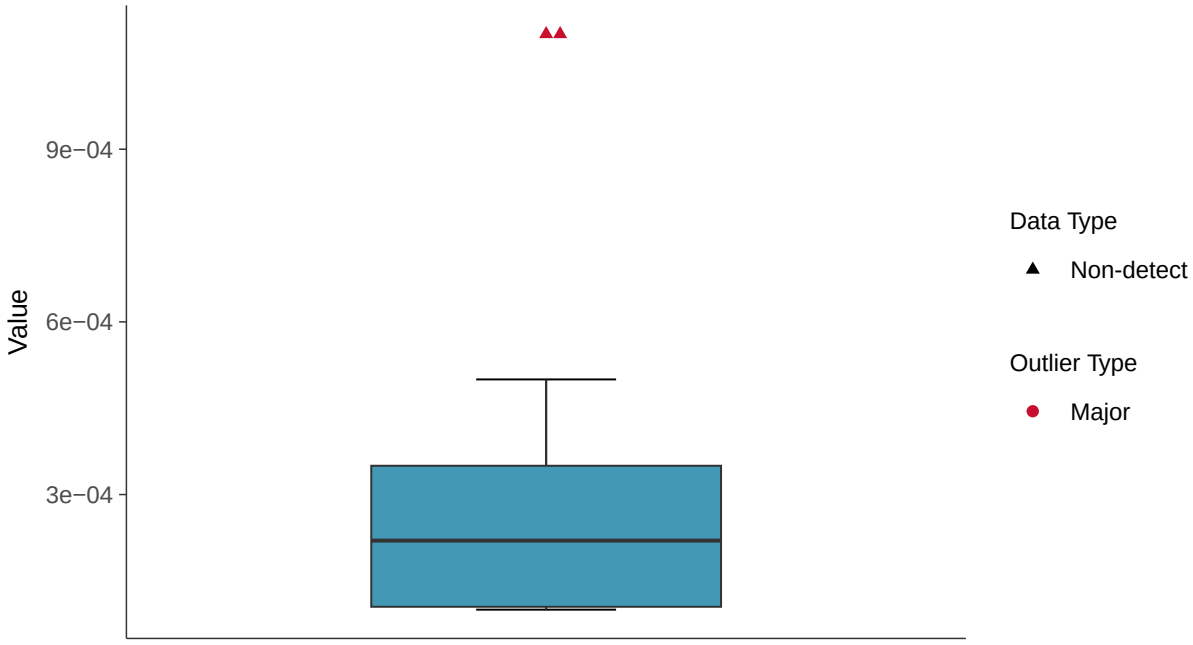
ID: 16_1_4_115





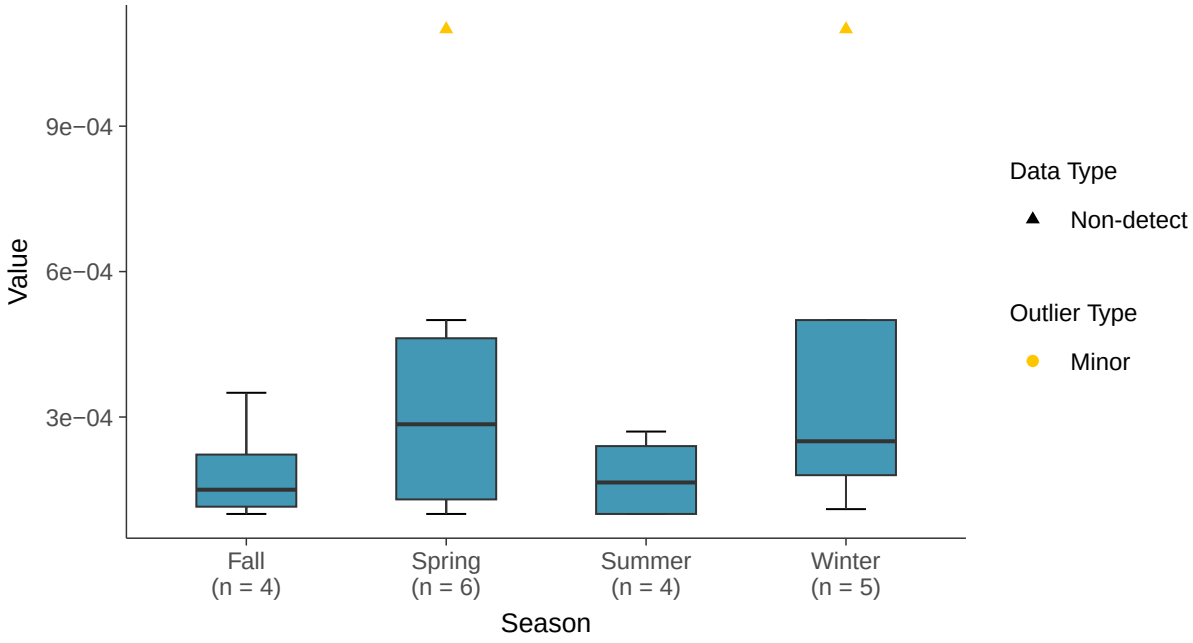
Boxplot

Lead, MW-06 (mg/L)



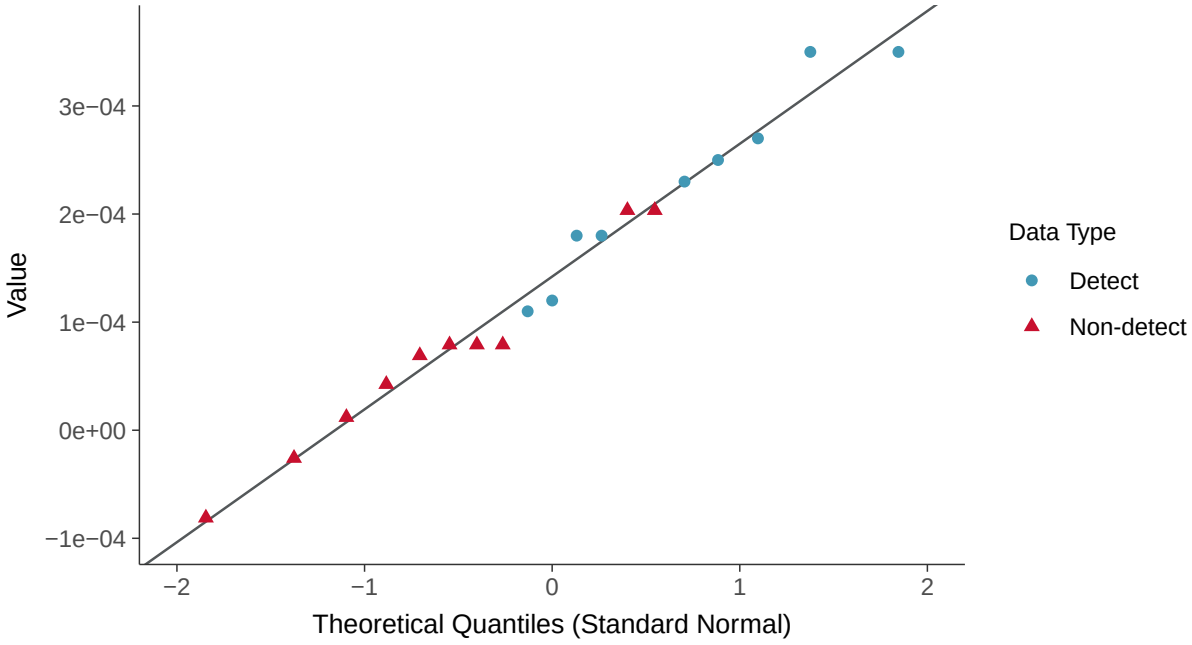
Boxplot by Season

Lead, MW-06 (mg/L)



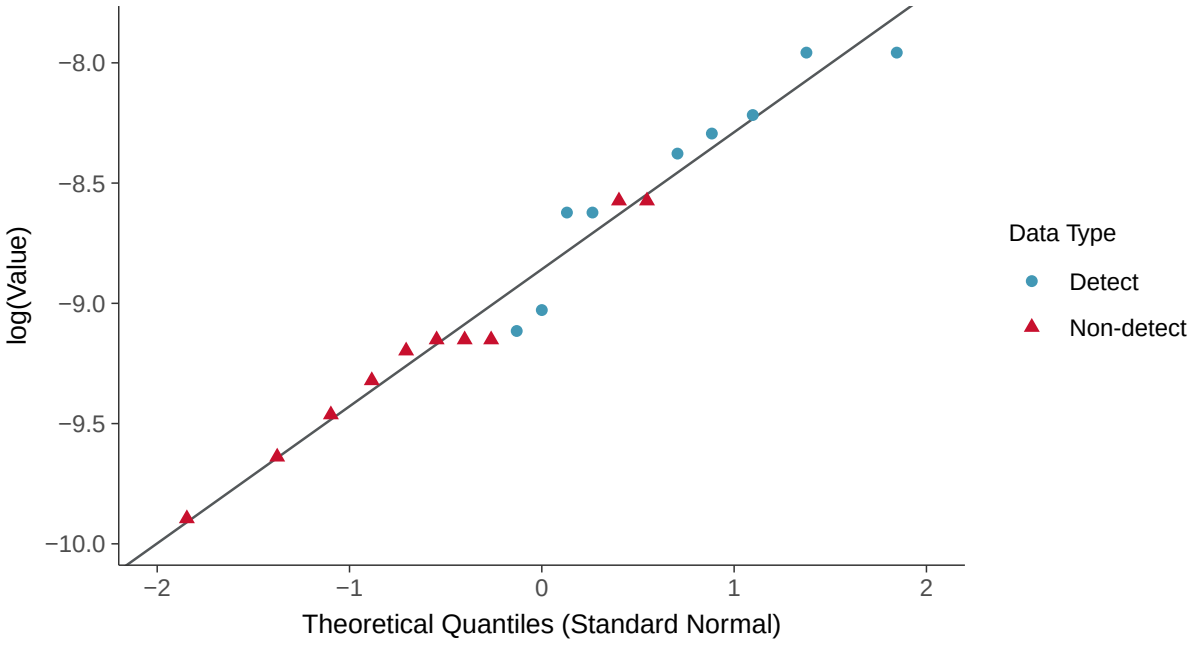
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-06 (mg/L)



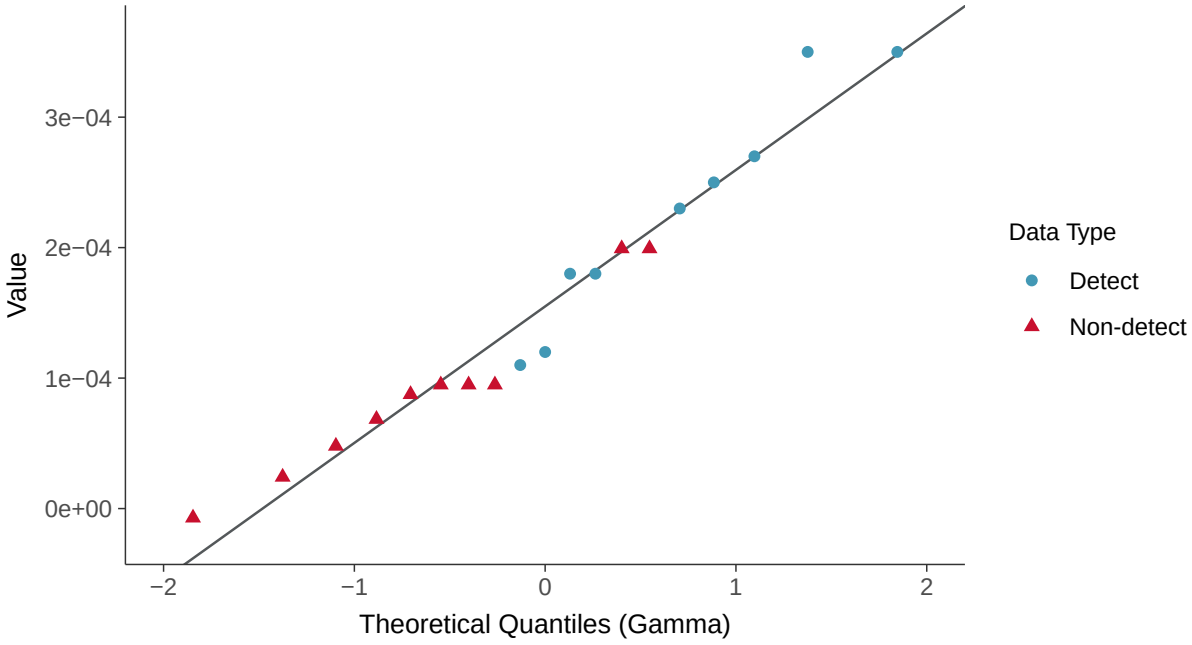
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-06 (mg/L)



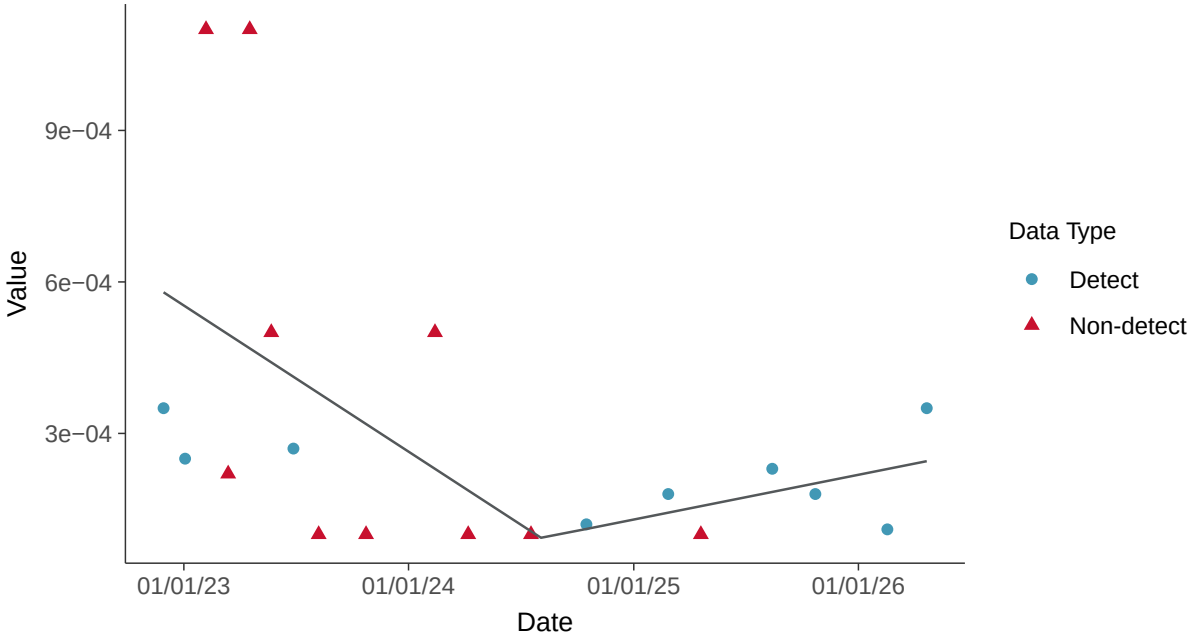
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-06 (mg/L)



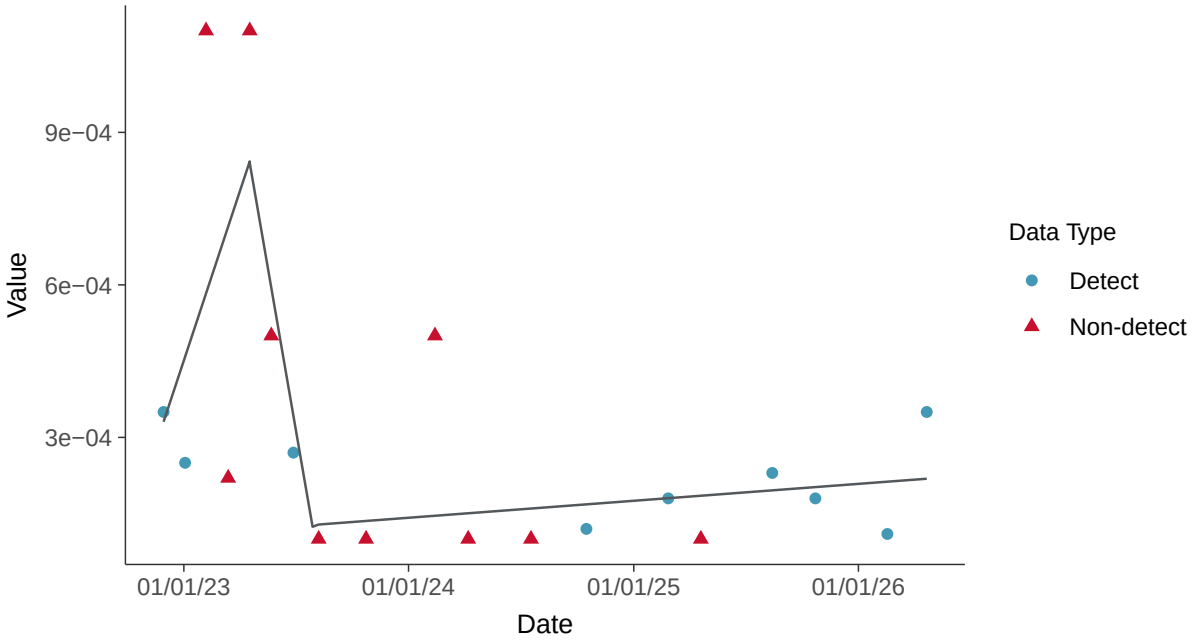
Trend Regression: Piecewise Linear-Linear

Lead, MW-06 (mg/L)



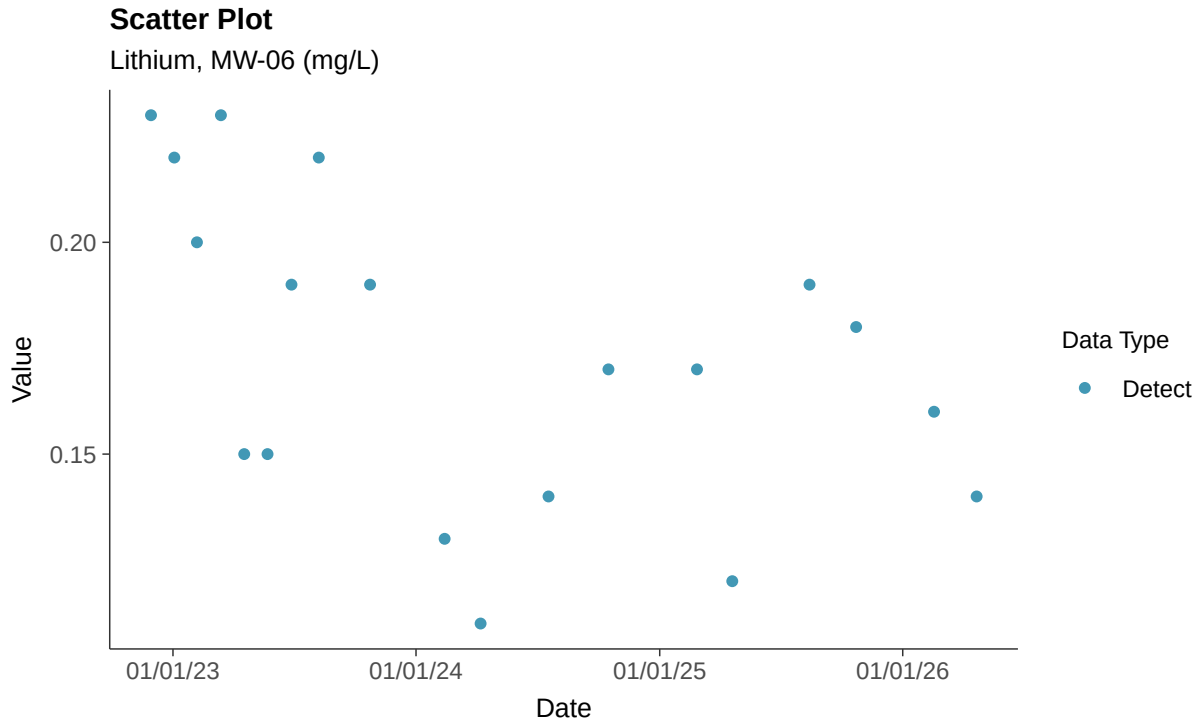
Trend Regression: Piecewise Linear-Linear-Linear

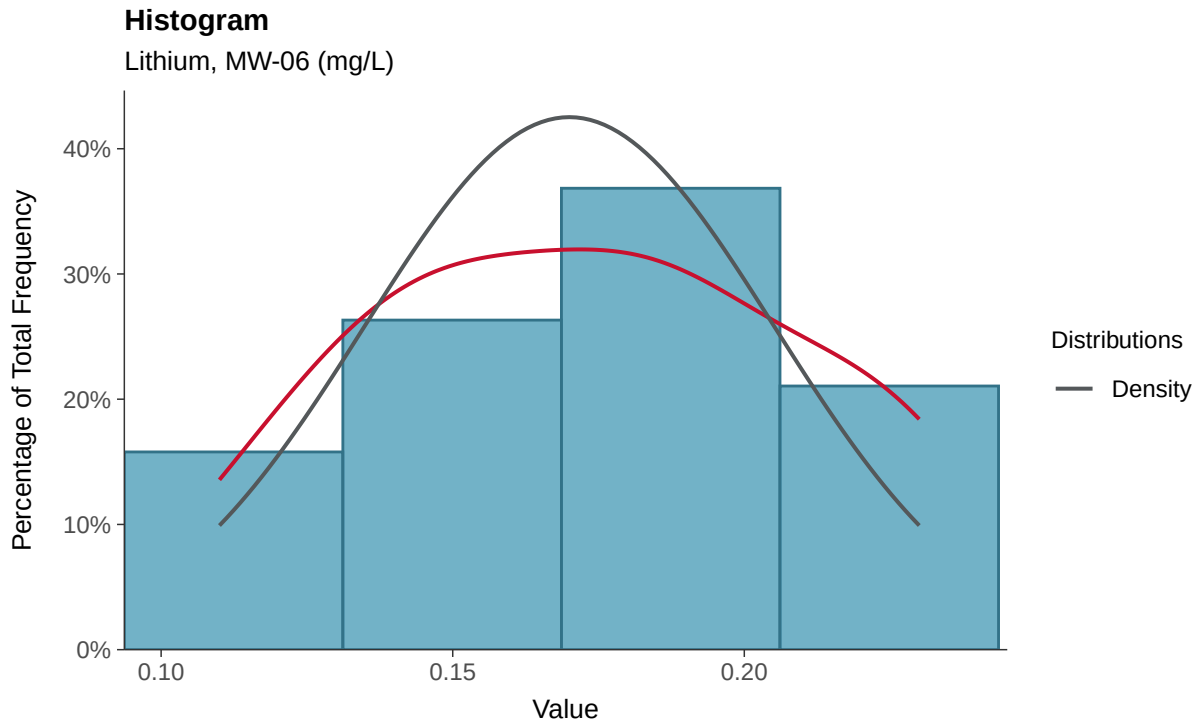
Lead, MW-06 (mg/L)



Appendix IV: Lithium, MW-06

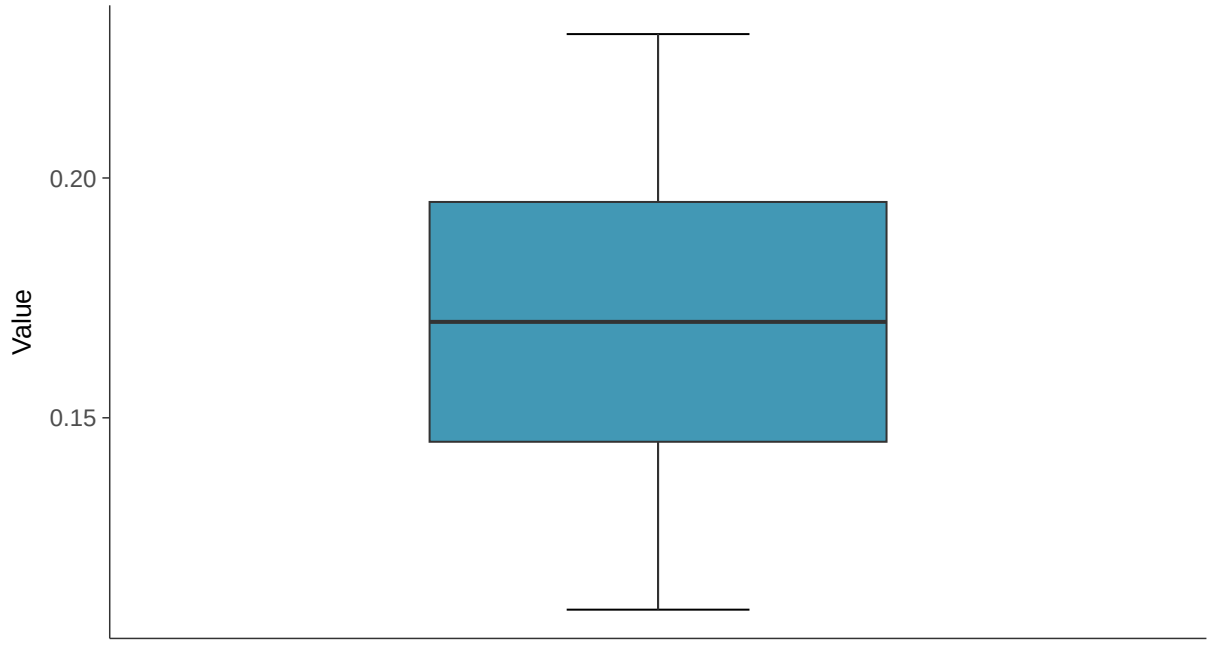
ID: 16_1_4_116





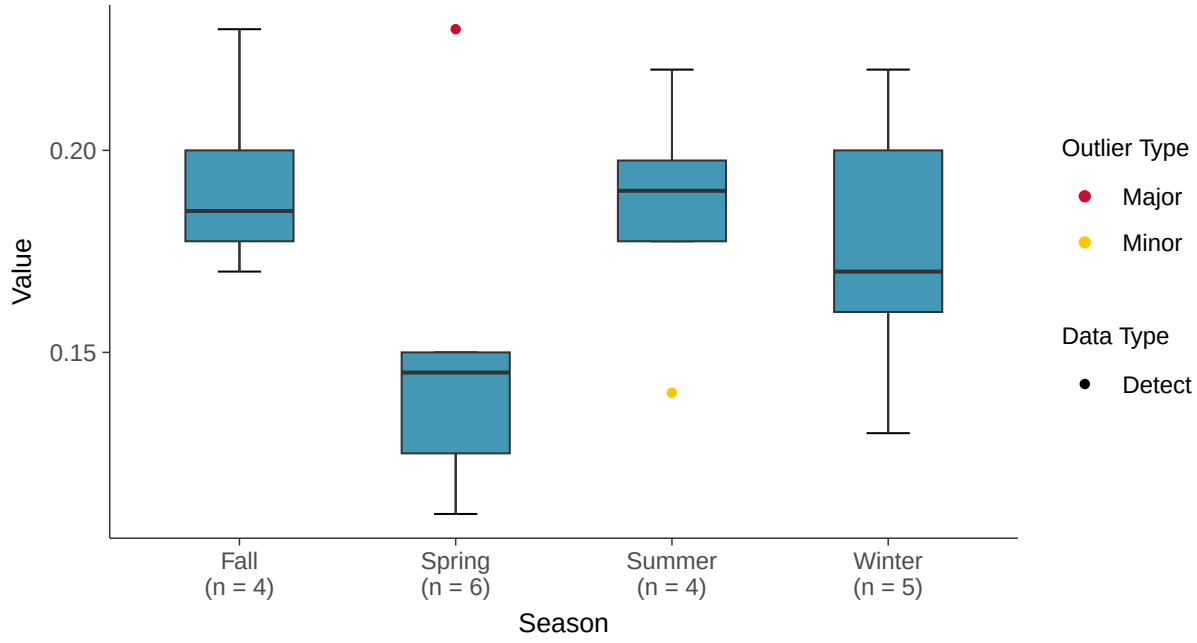
Boxplot

Lithium, MW-06 (mg/L)



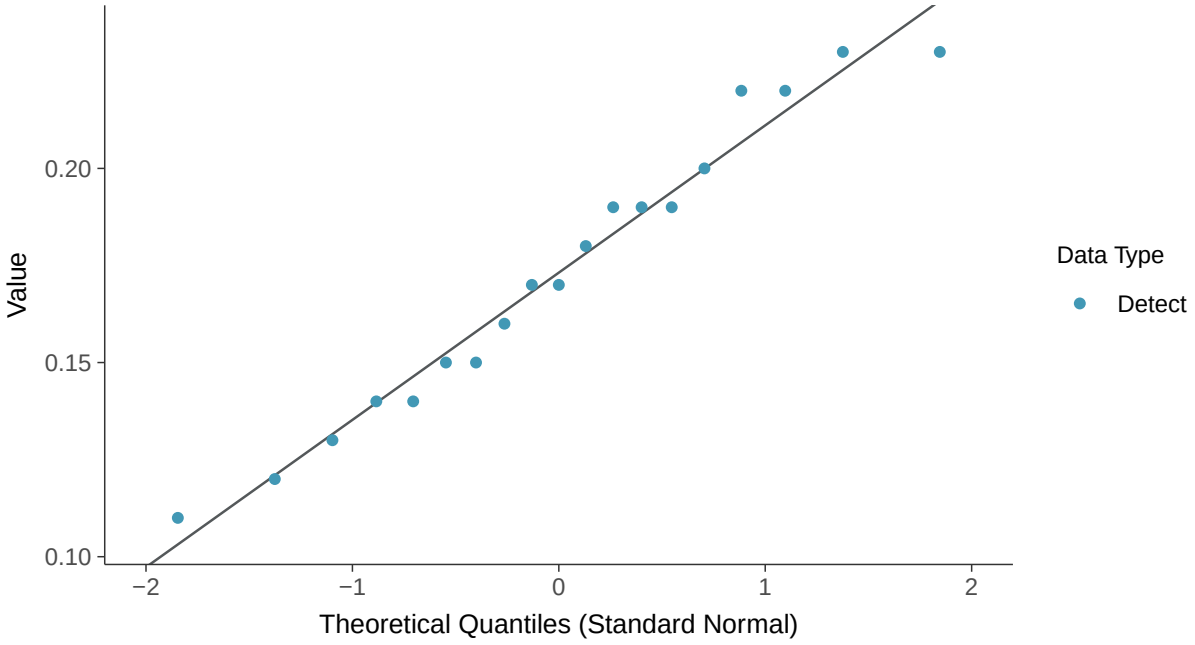
Boxplot by Season

Lithium, MW-06 (mg/L)



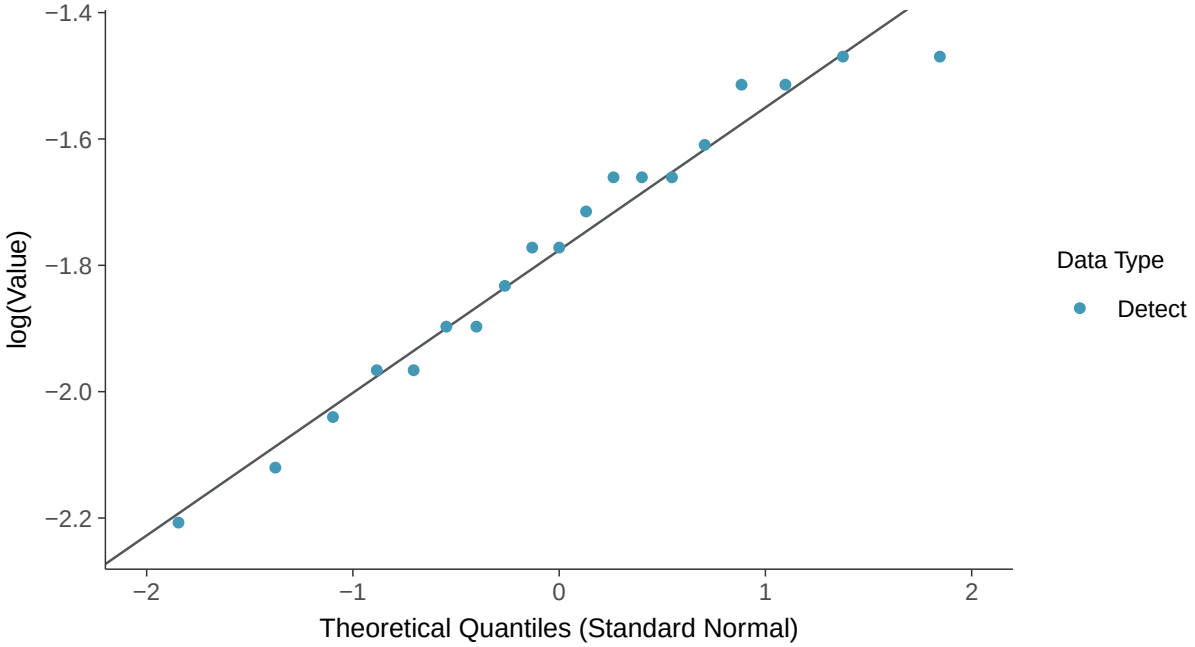
Normal Q-Q plot

Lithium, MW-06 (mg/L)



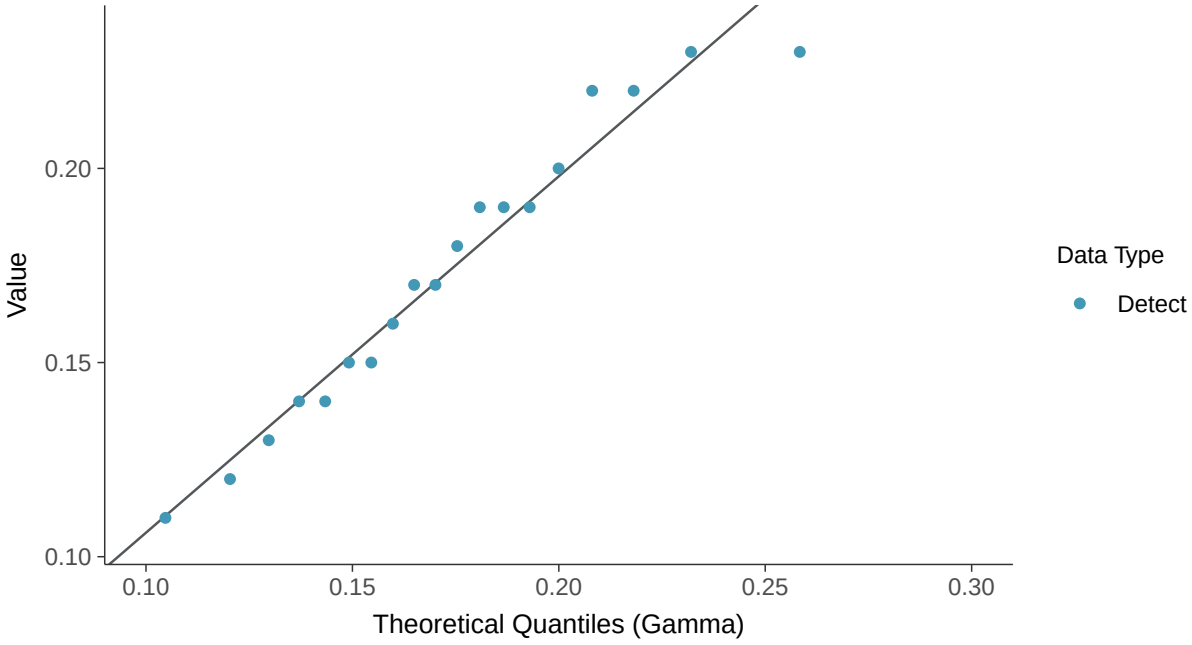
Lognormal Q-Q plot

Lithium, MW-06 (mg/L)



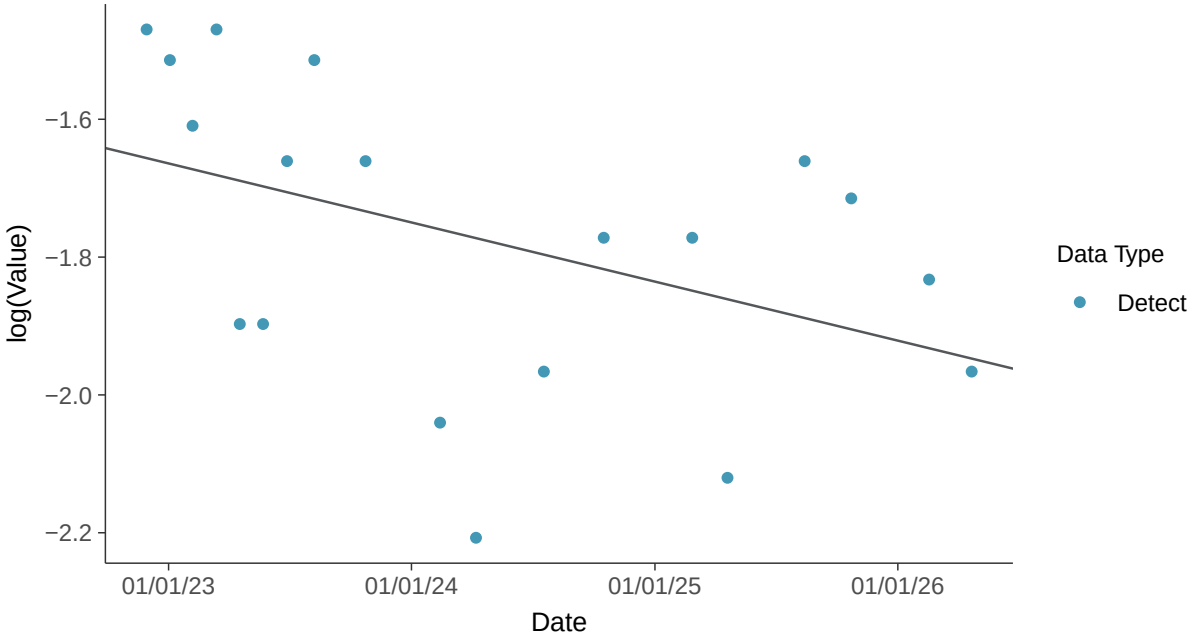
Gamma Q-Q plot

Lithium, MW-06 (mg/L)



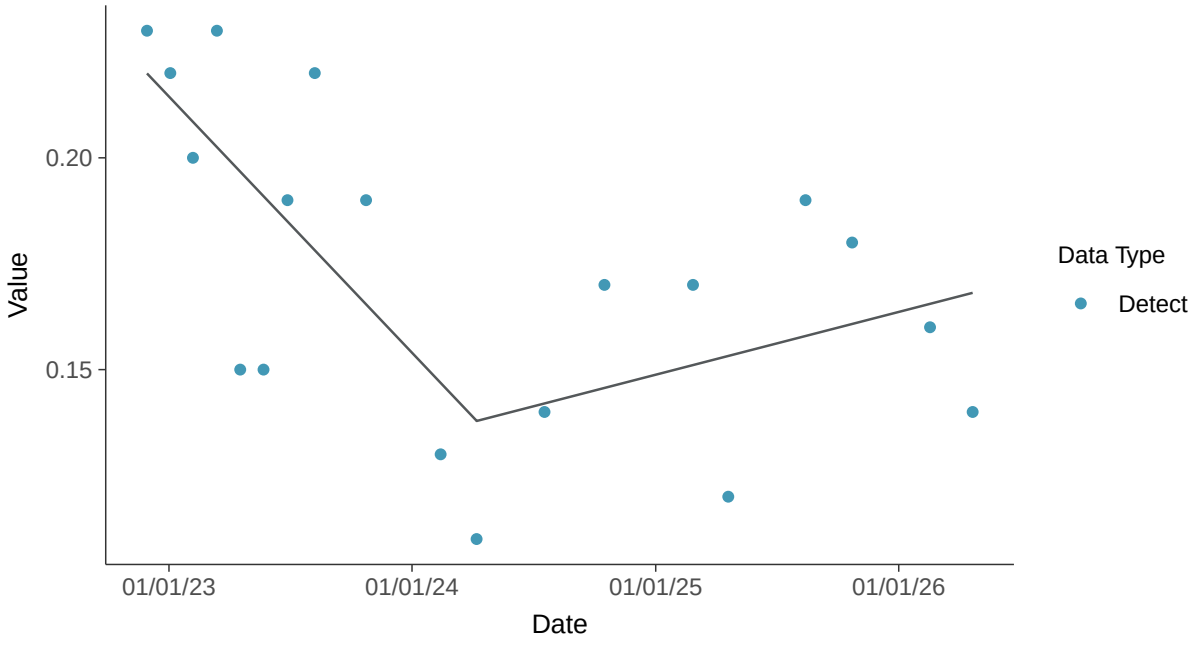
Trend Regression: Lognormal MLE

Lithium, MW-06 (mg/L)



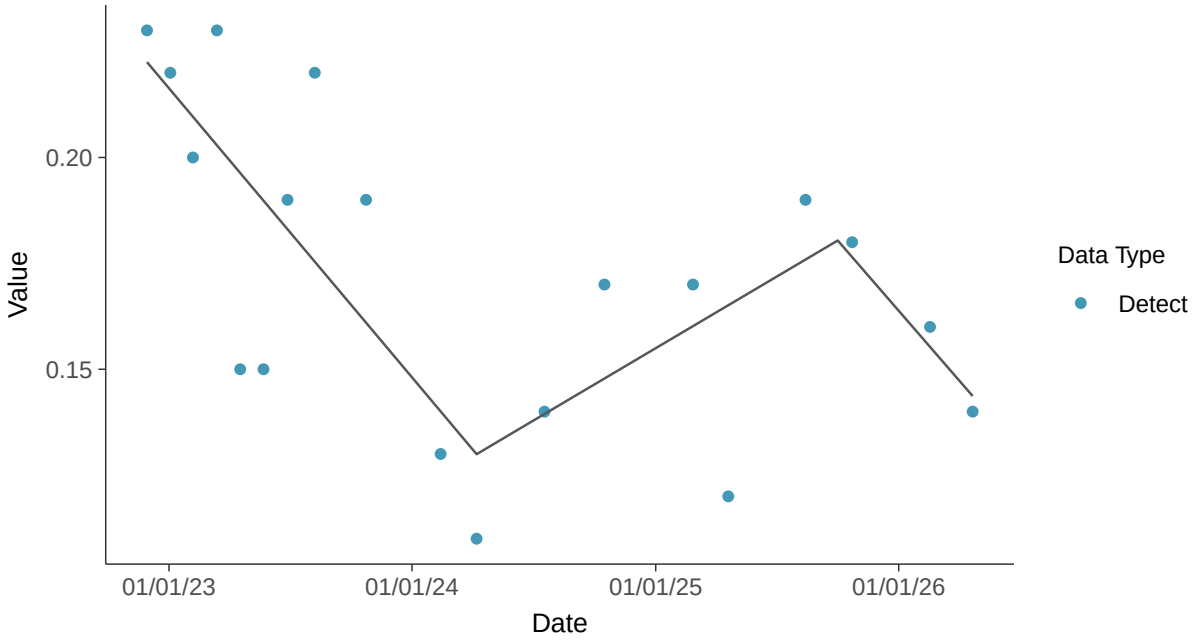
Trend Regression: Piecewise Linear-Linear

Lithium, MW-06 (mg/L)



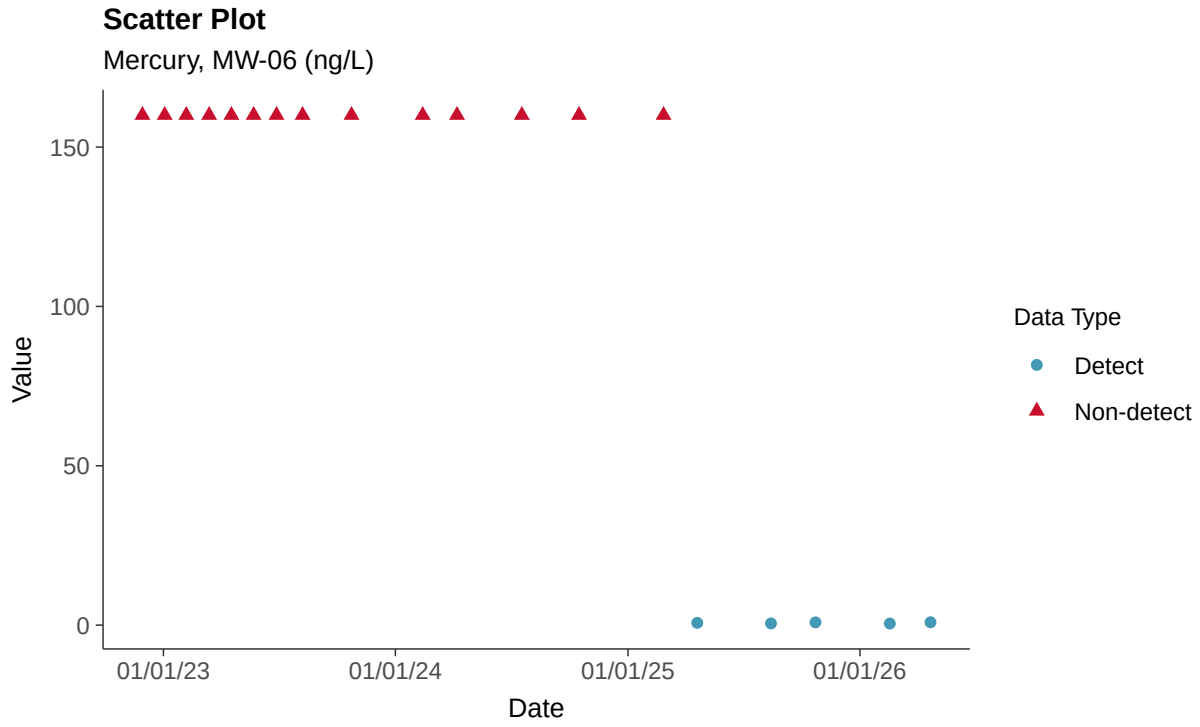
Trend Regression: Piecewise Linear-Linear-Linear

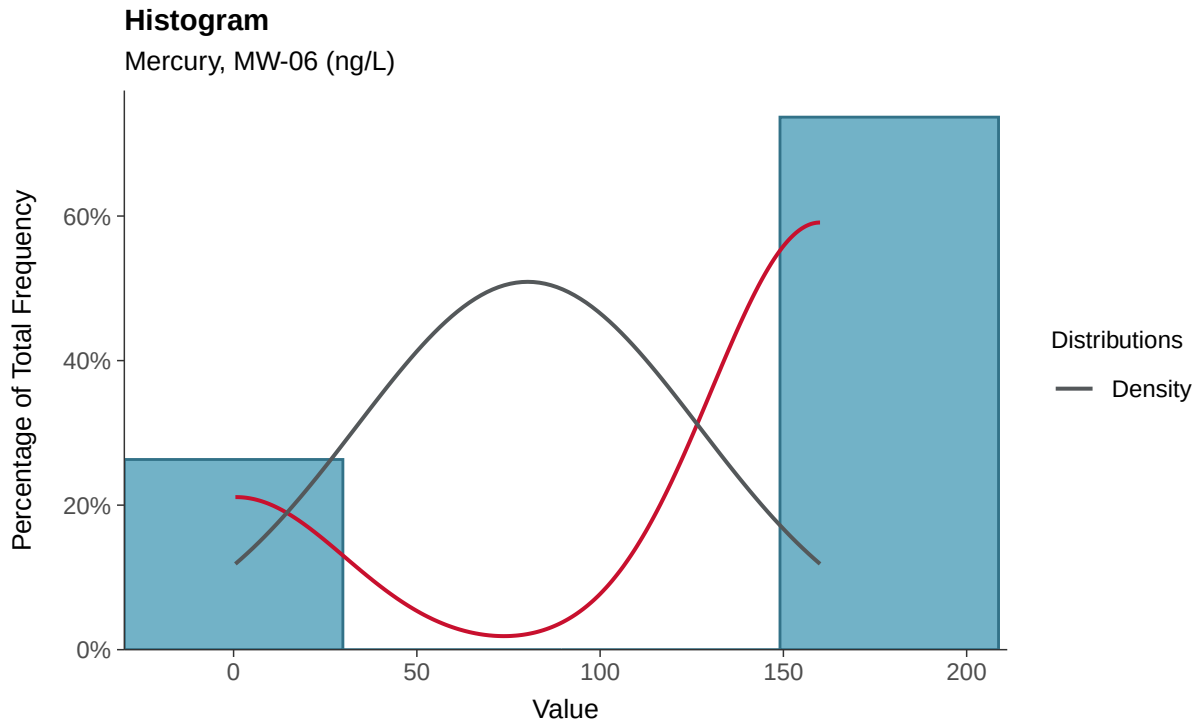
Lithium, MW-06 (mg/L)



Appendix IV: Mercury, MW-06

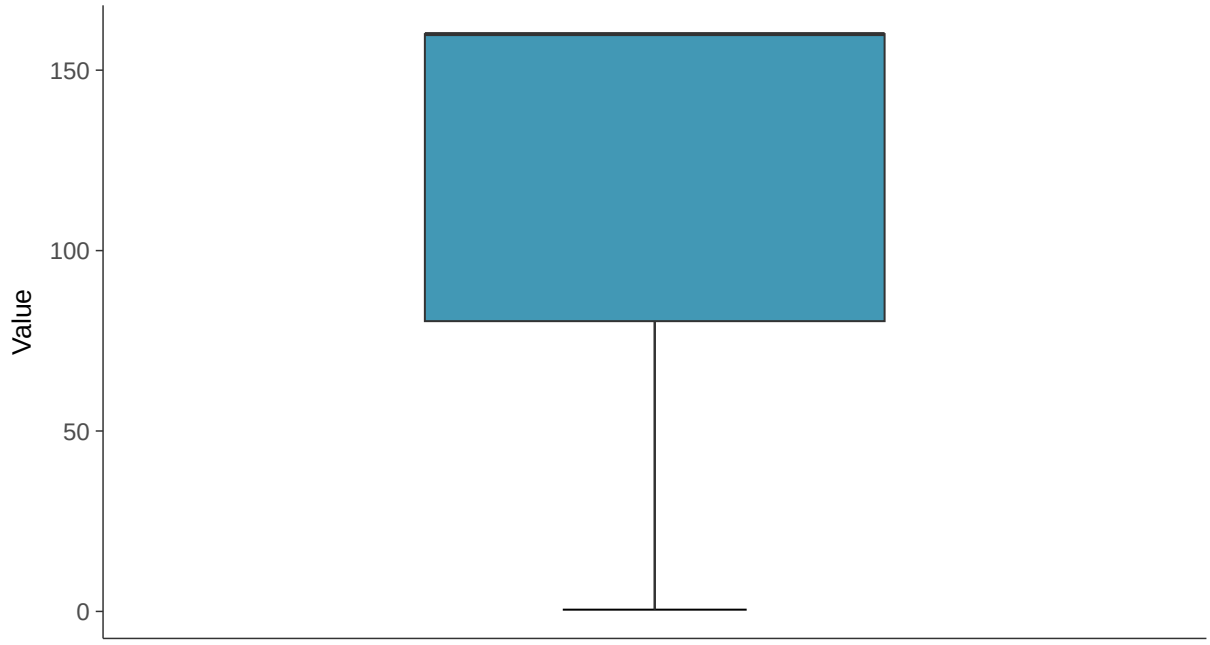
ID: 16_1_4_117





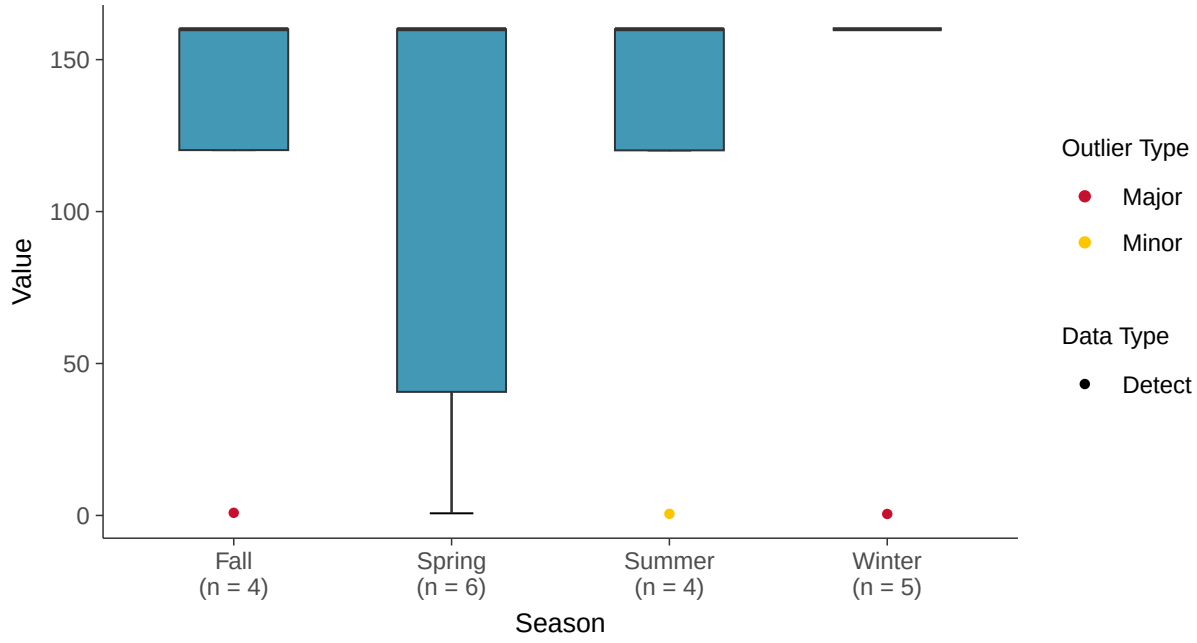
Boxplot

Mercury, MW-06 (ng/L)



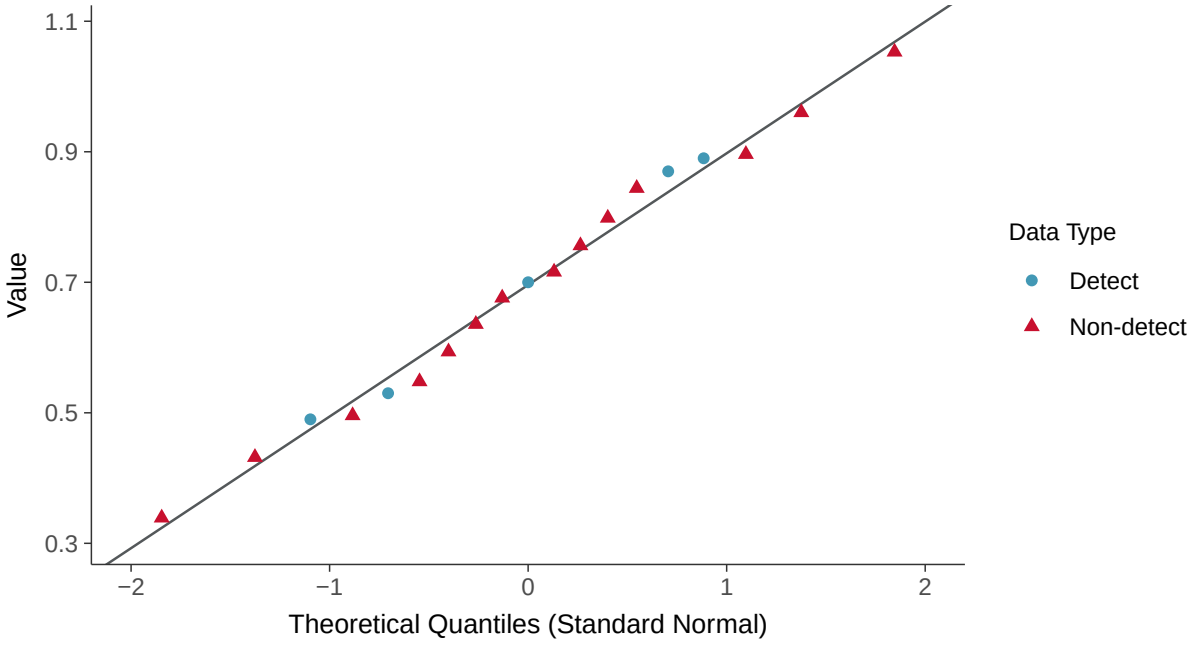
Boxplot by Season

Mercury, MW-06 (ng/L)



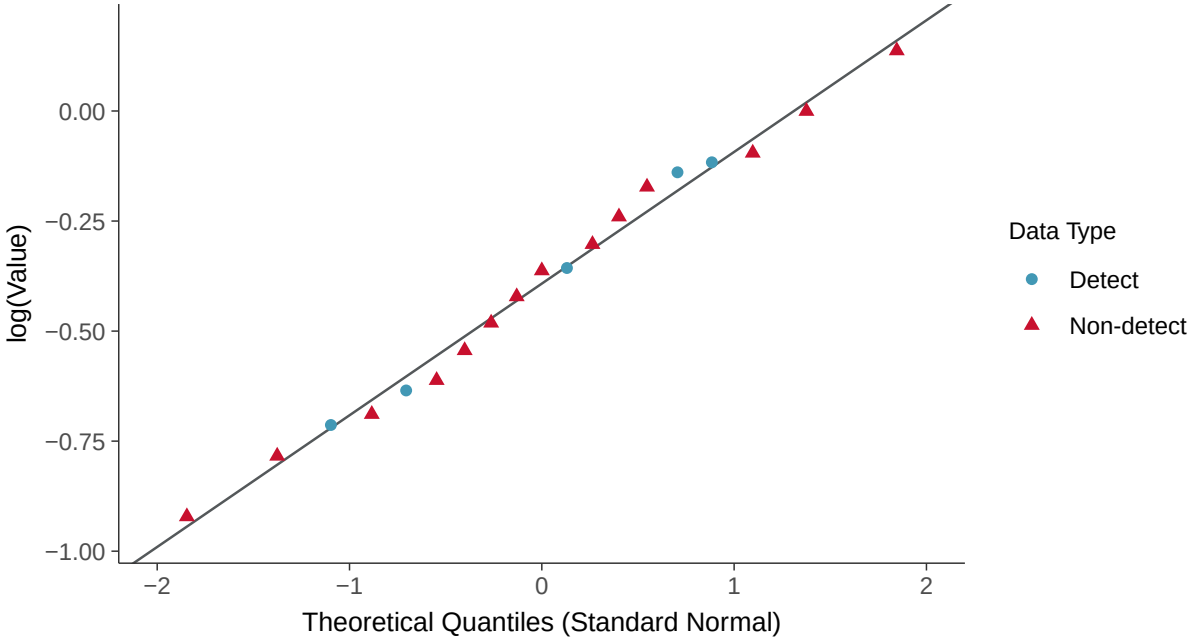
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-06 (ng/L)



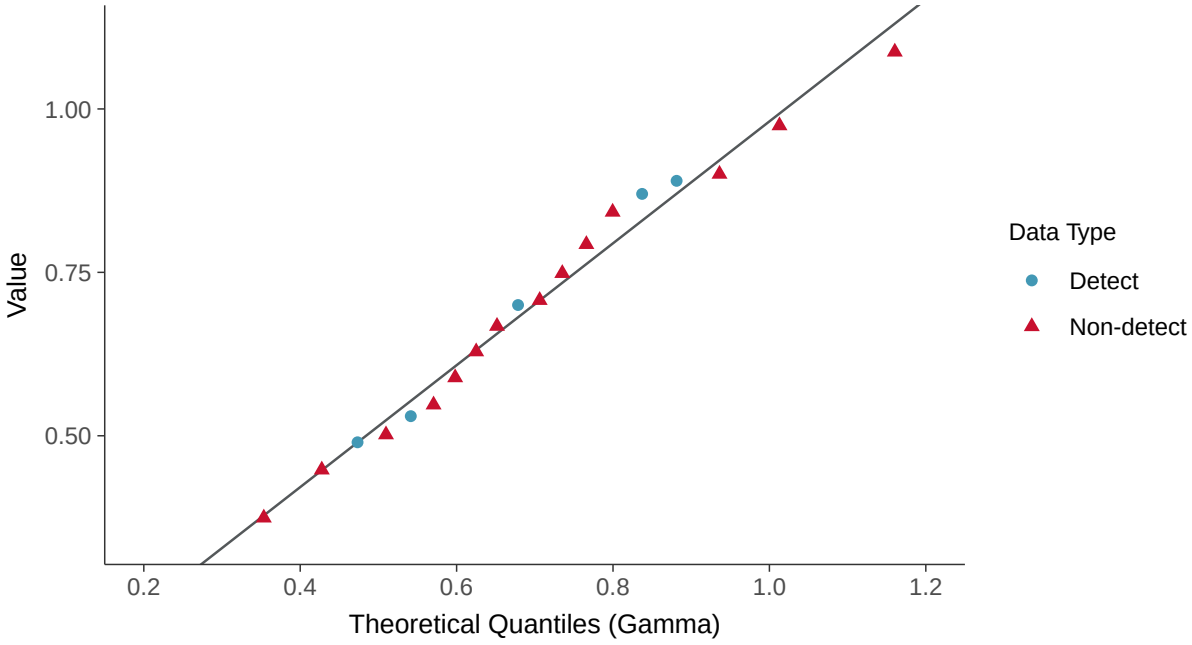
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-06 (ng/L)



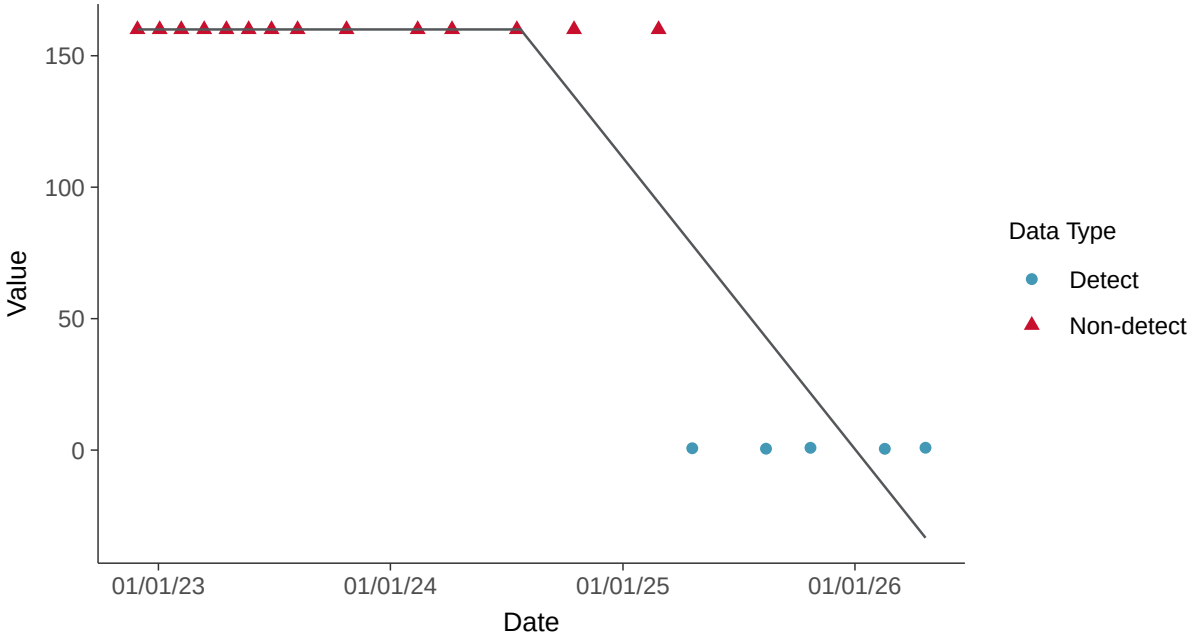
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-06 (ng/L)



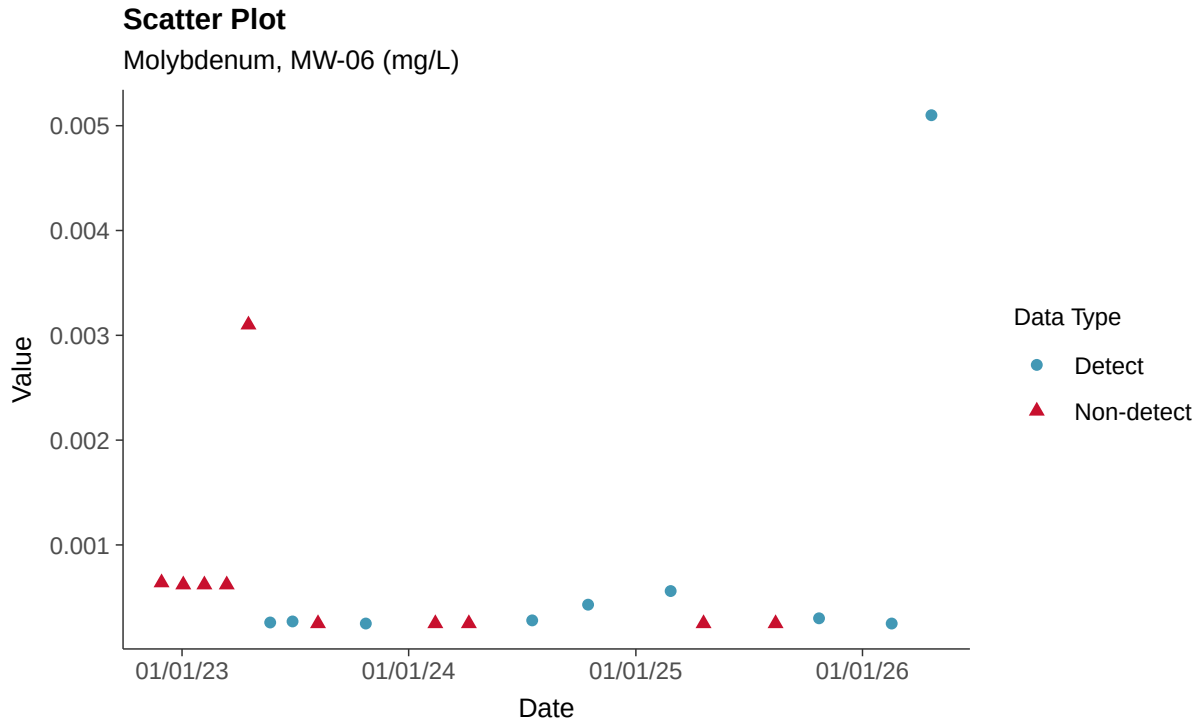
Trend Regression: Piecewise Linear-Linear

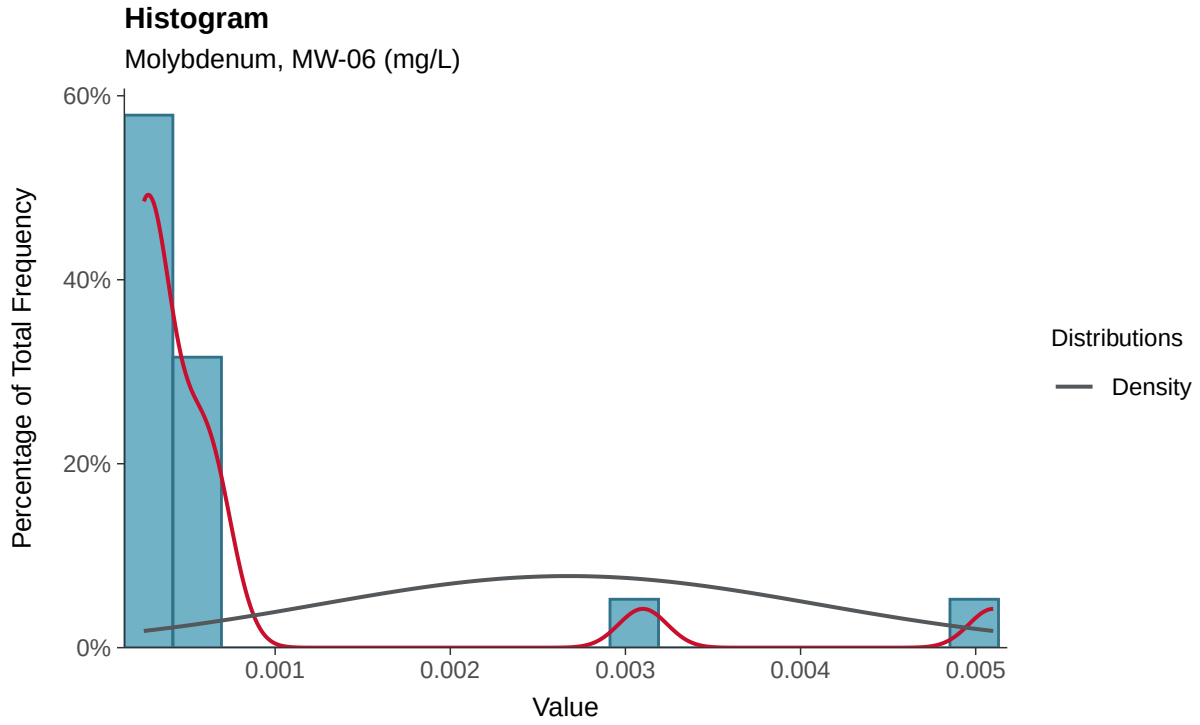
Mercury, MW-06 (ng/L)



Appendix IV: Molybdenum, MW-06

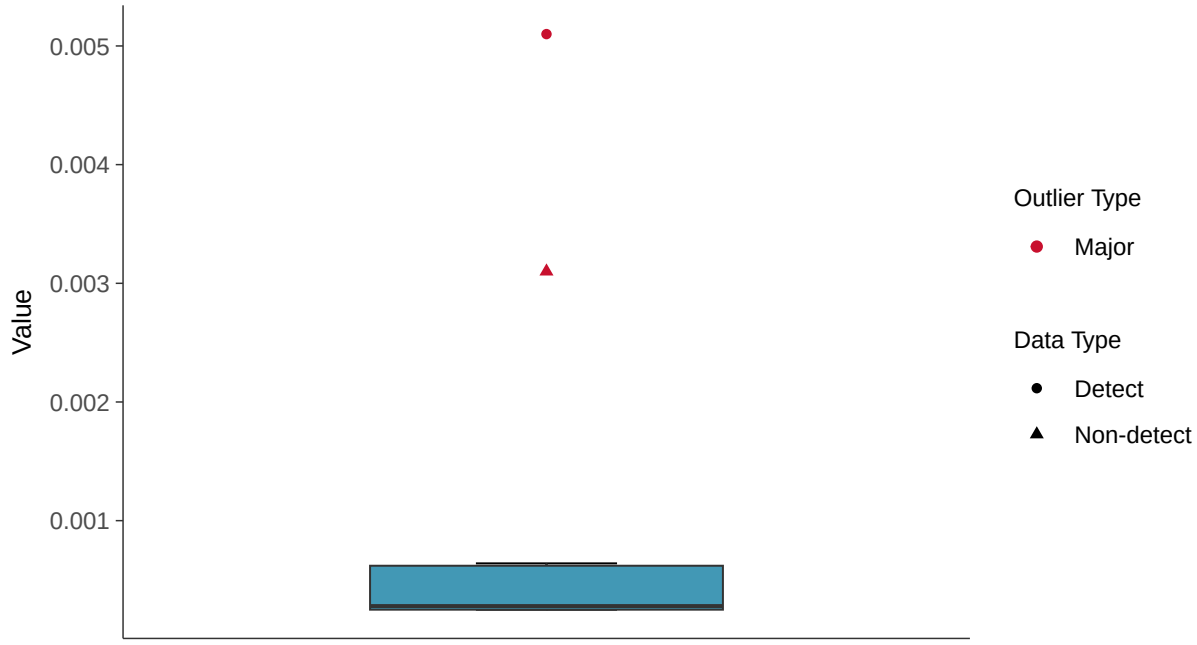
ID: 16_1_4_118





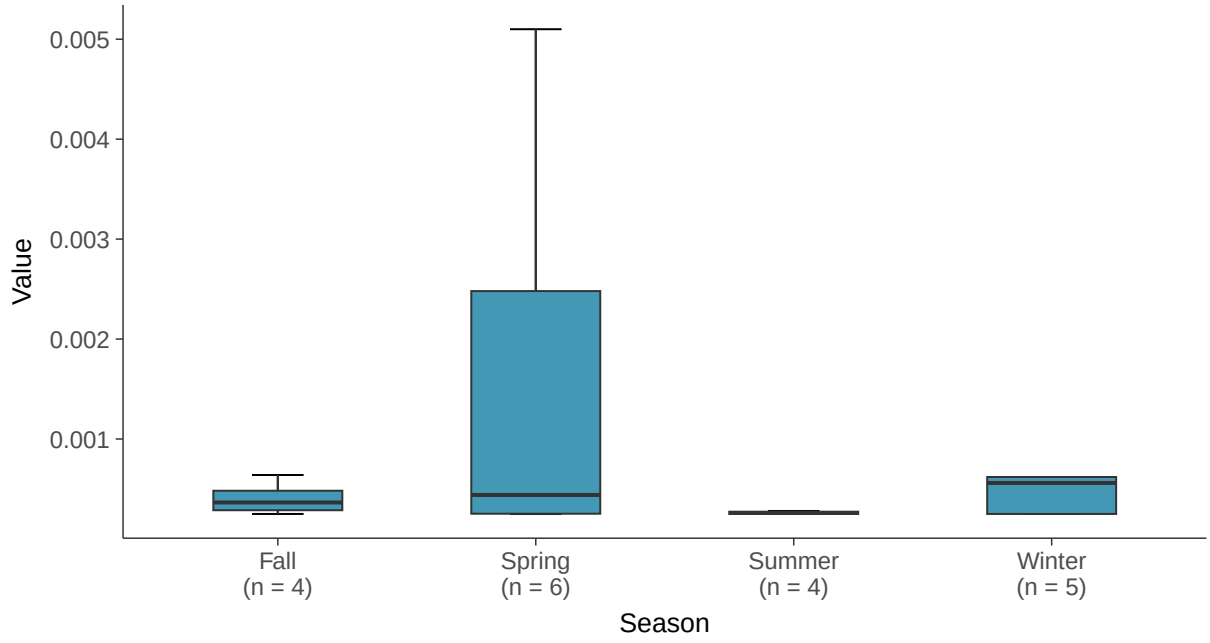
Boxplot

Molybdenum, MW-06 (mg/L)



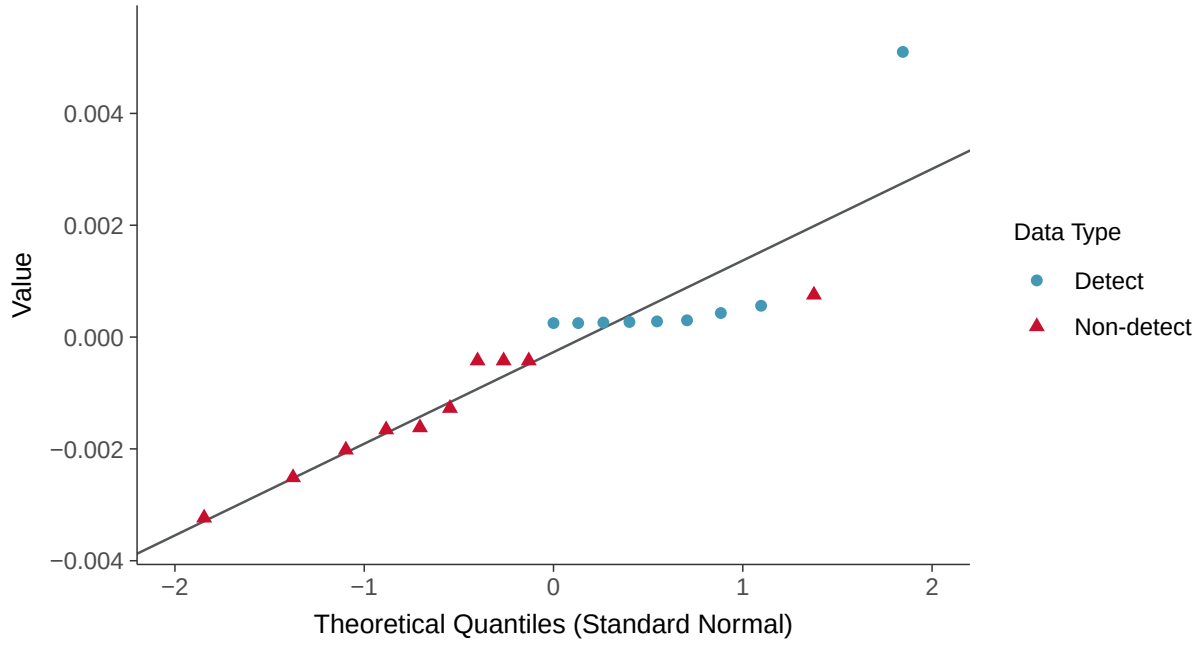
Boxplot by Season

Molybdenum, MW-06 (mg/L)



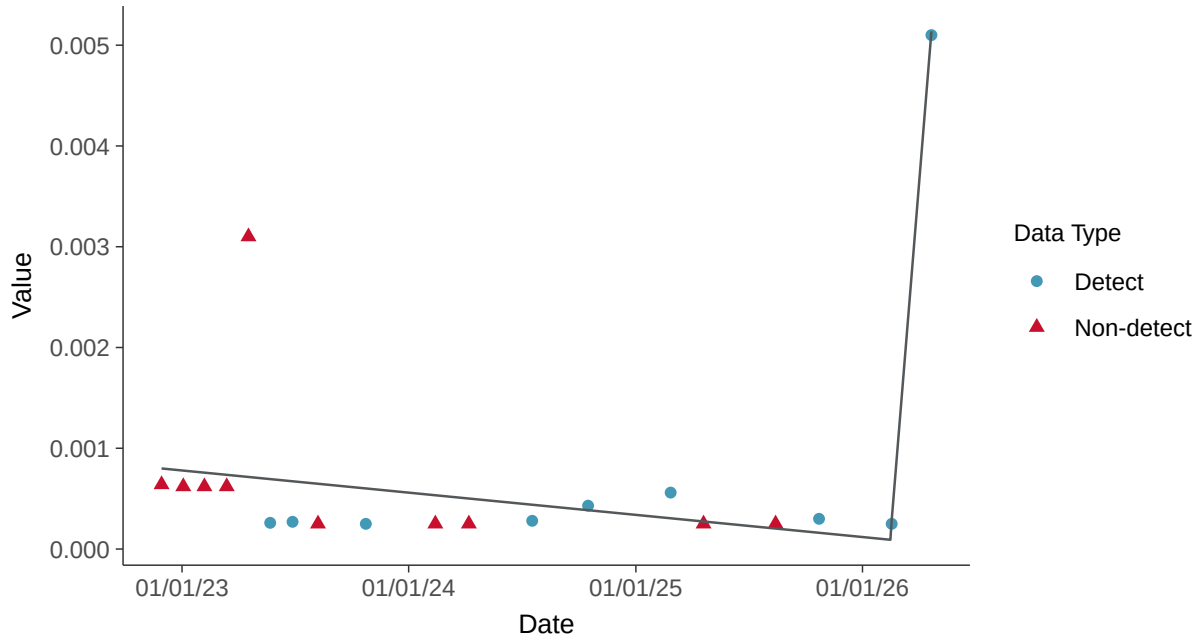
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-06 (mg/L)

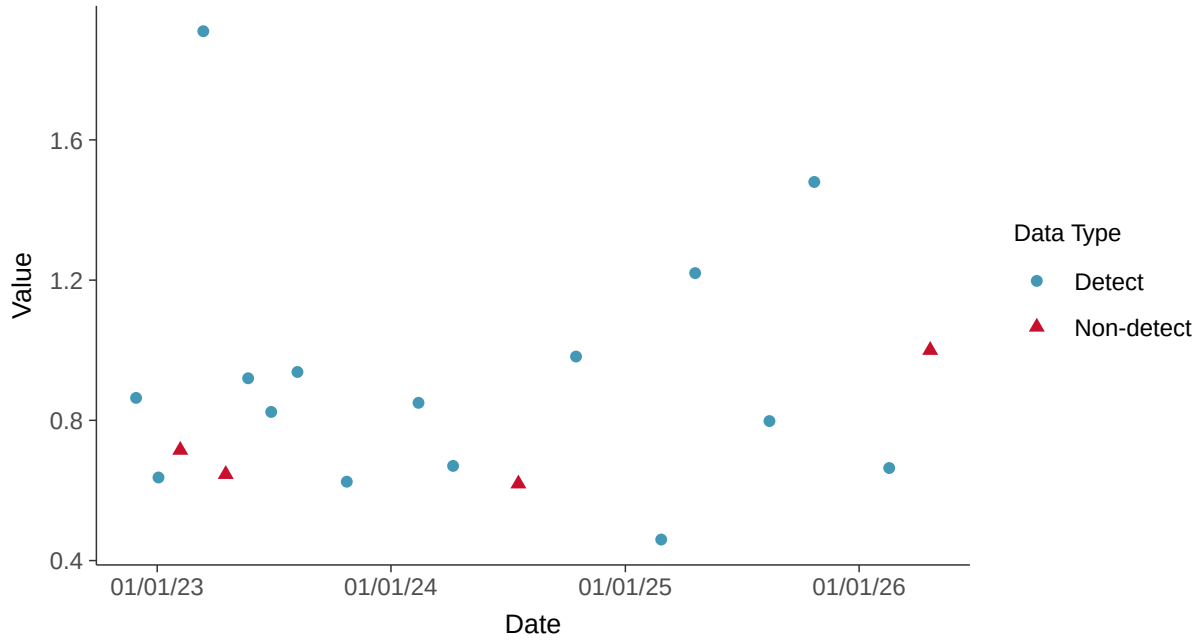


Appendix IV: Radium 226 and 228, MW-06

ID: 16_1_4_121

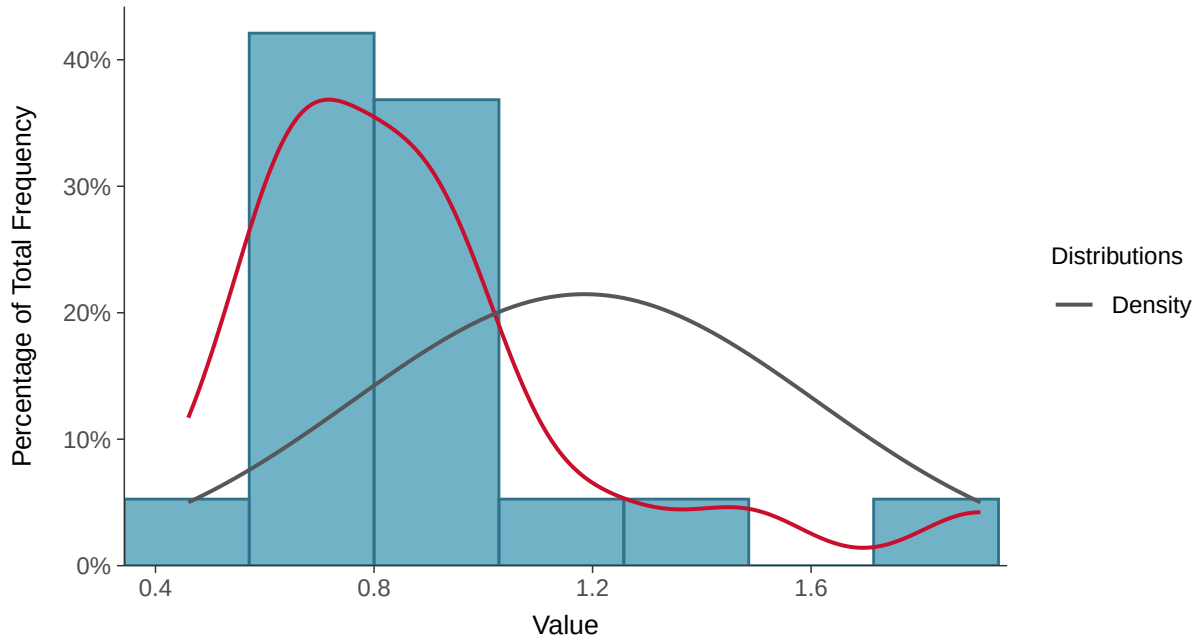
Scatter Plot

Radium 226 and 228, MW-06 (pCi/L)



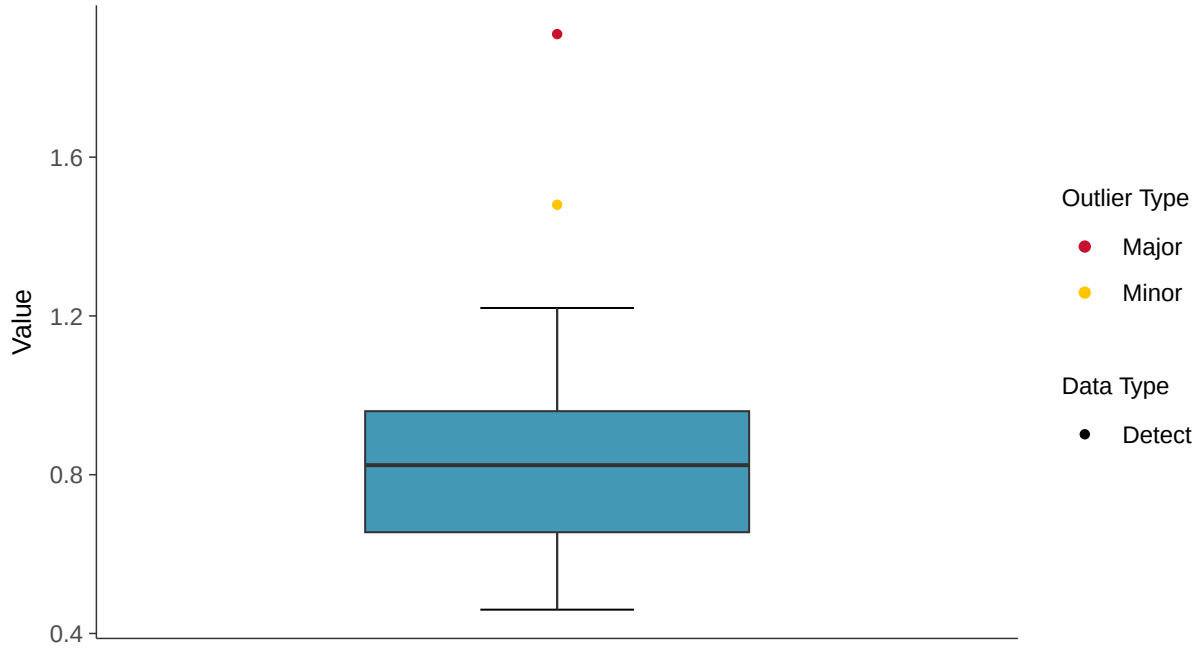
Histogram

Radium 226 and 228, MW-06 (pCi/L)



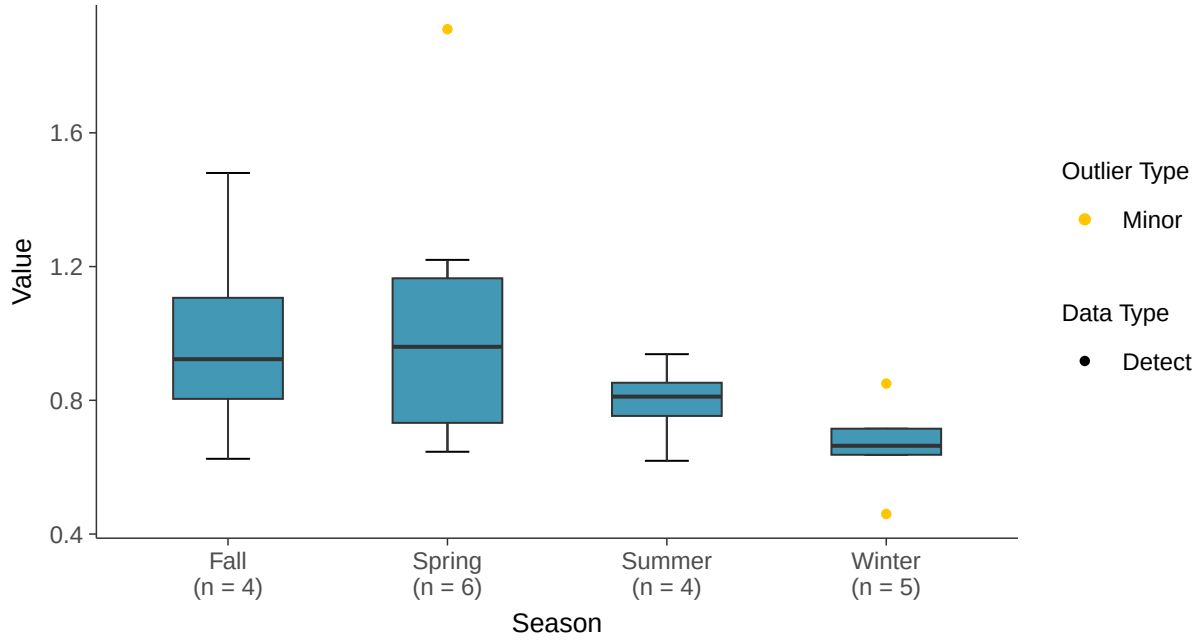
Boxplot

Radium 226 and 228, MW-06 (pCi/L)



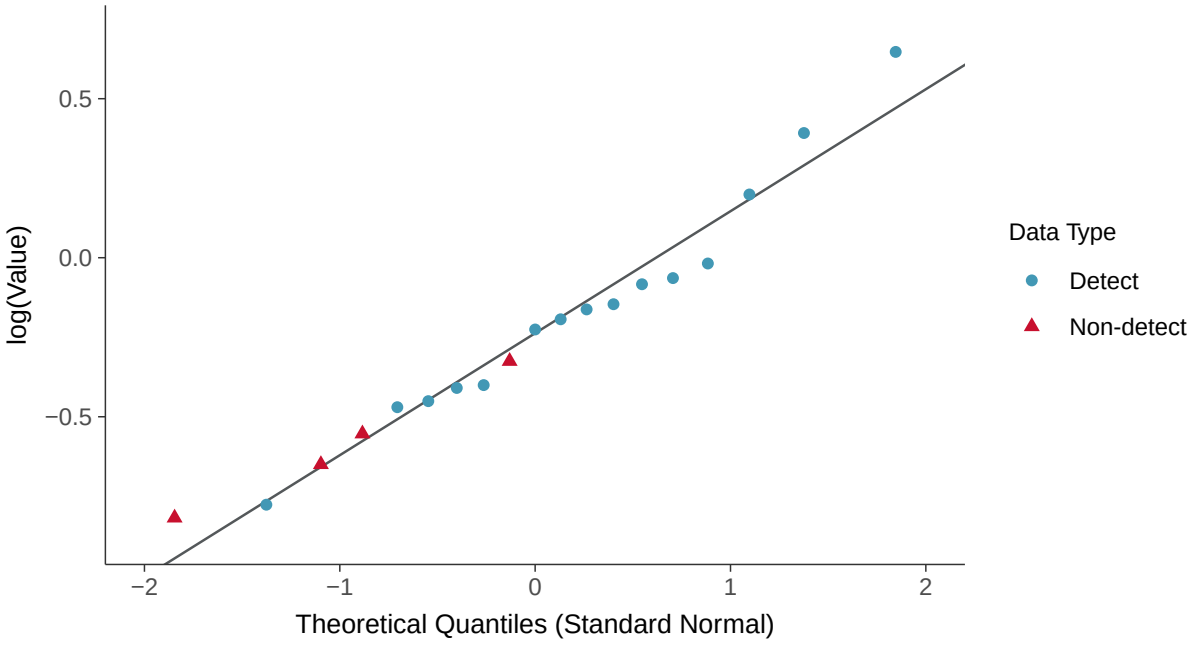
Boxplot by Season

Radium 226 and 228, MW-06 (pCi/L)



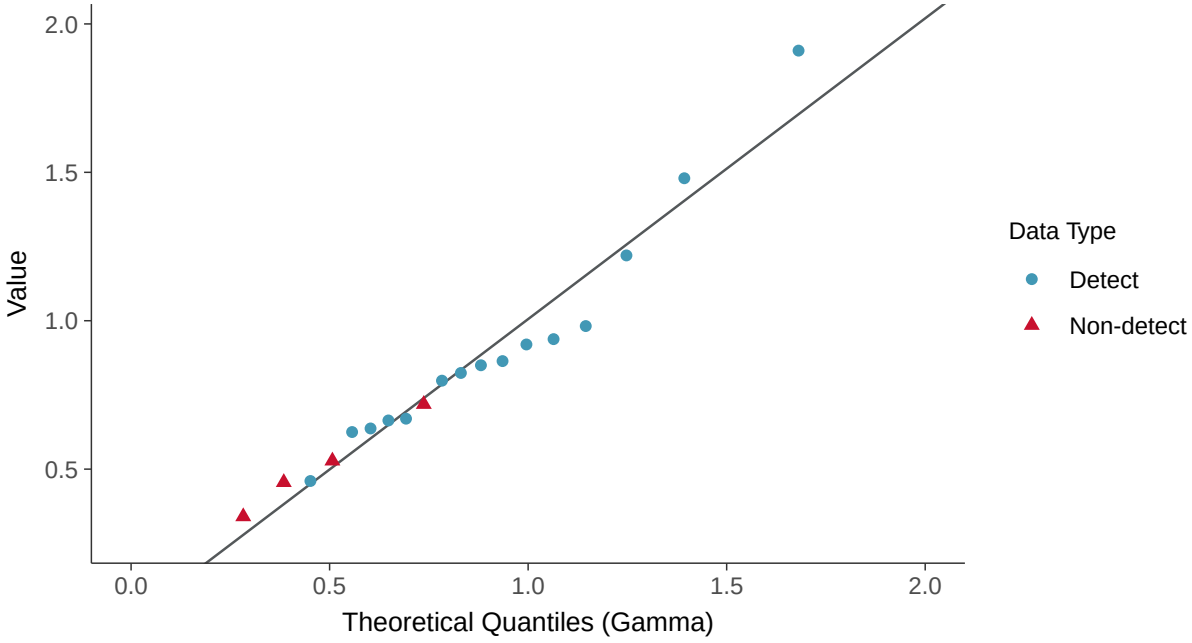
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-06 (pCi/L)



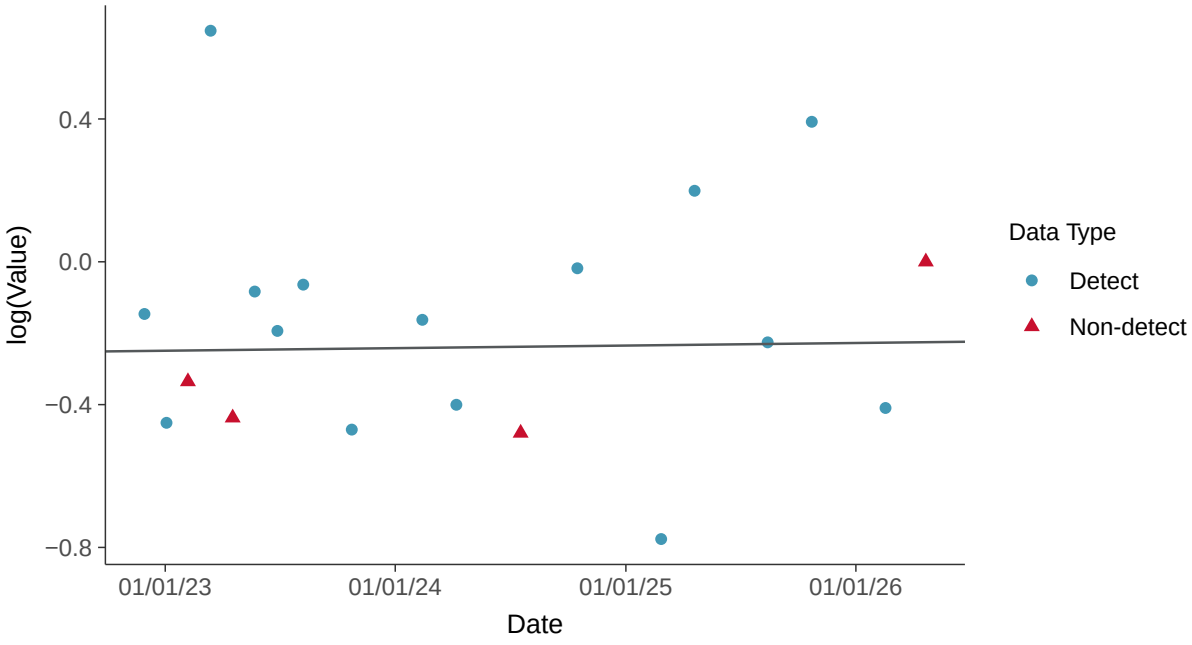
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-06 (pCi/L)



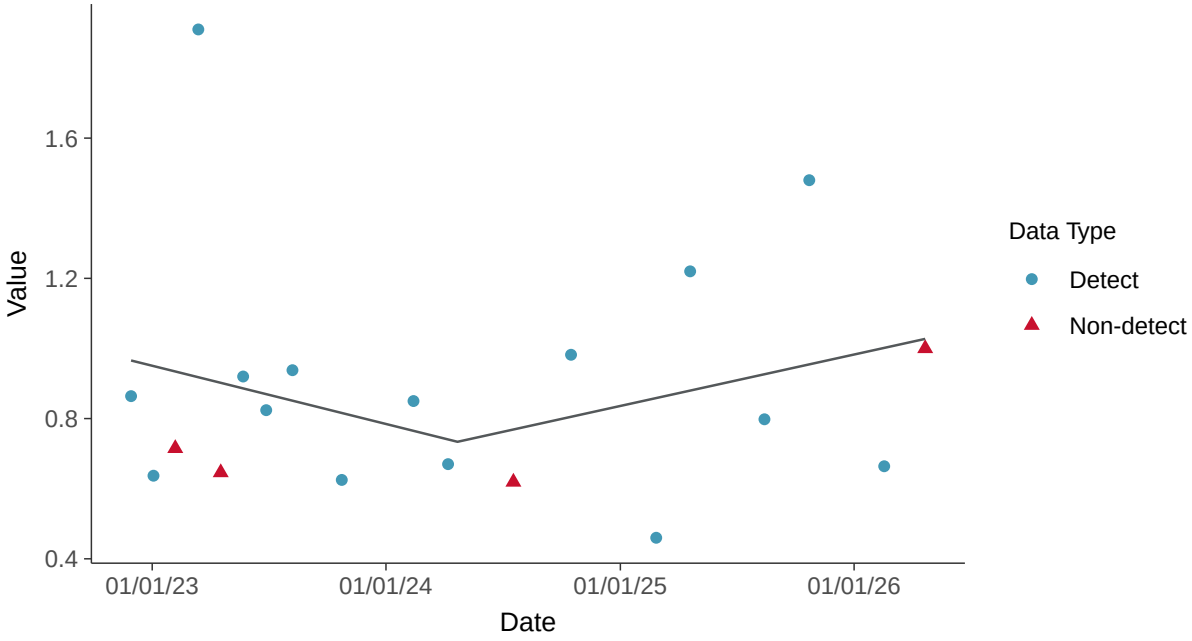
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-06 (pCi/L)



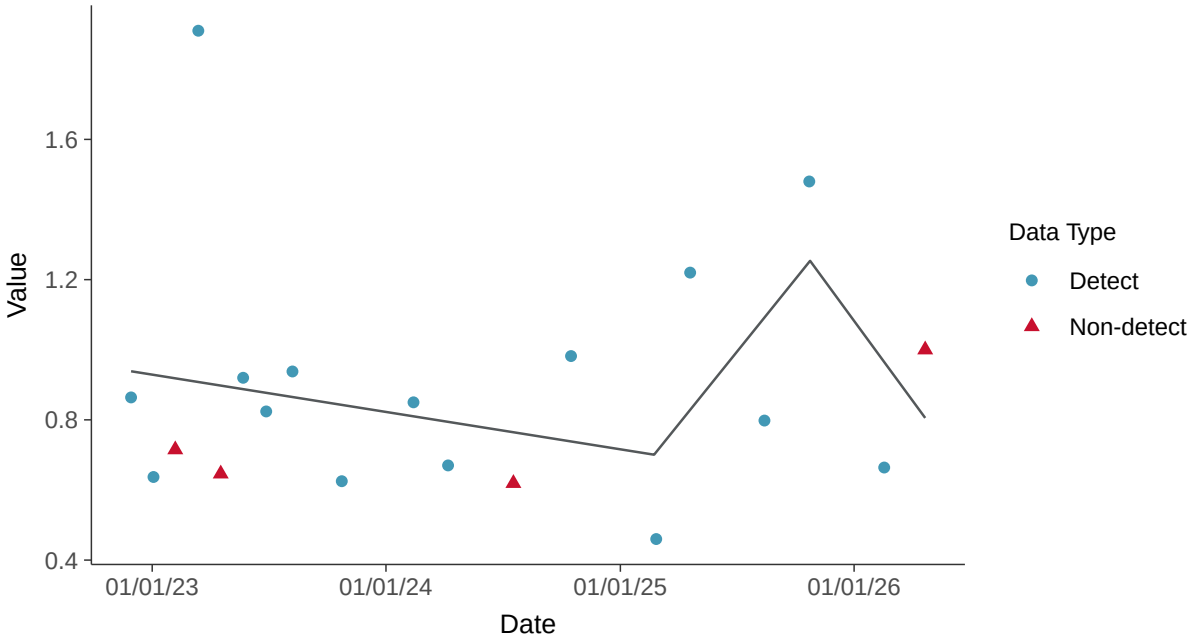
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-06 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-06 (pCi/L)

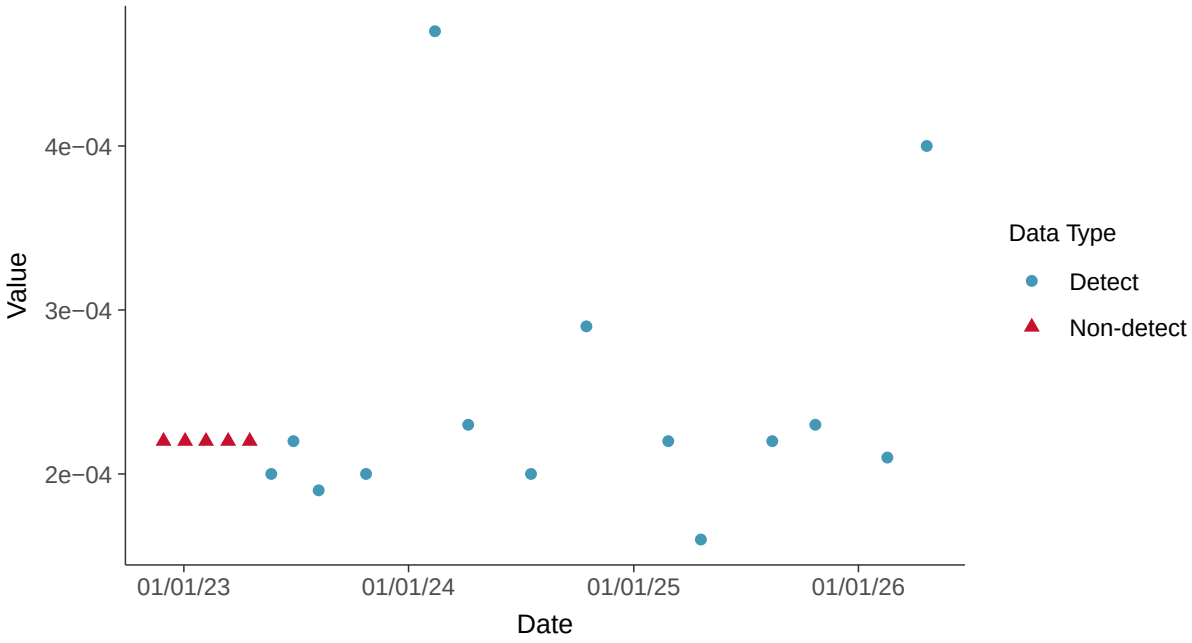


Appendix IV: Selenium, MW-06

ID: 16_1_4_122

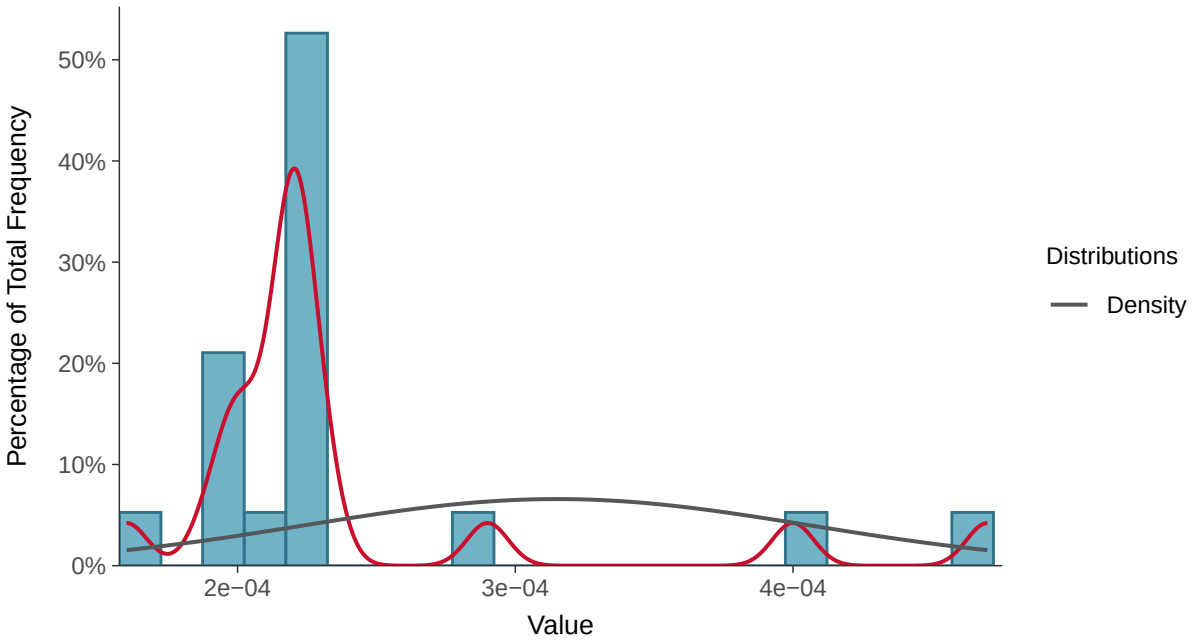
Scatter Plot

Selenium, MW-06 (mg/L)



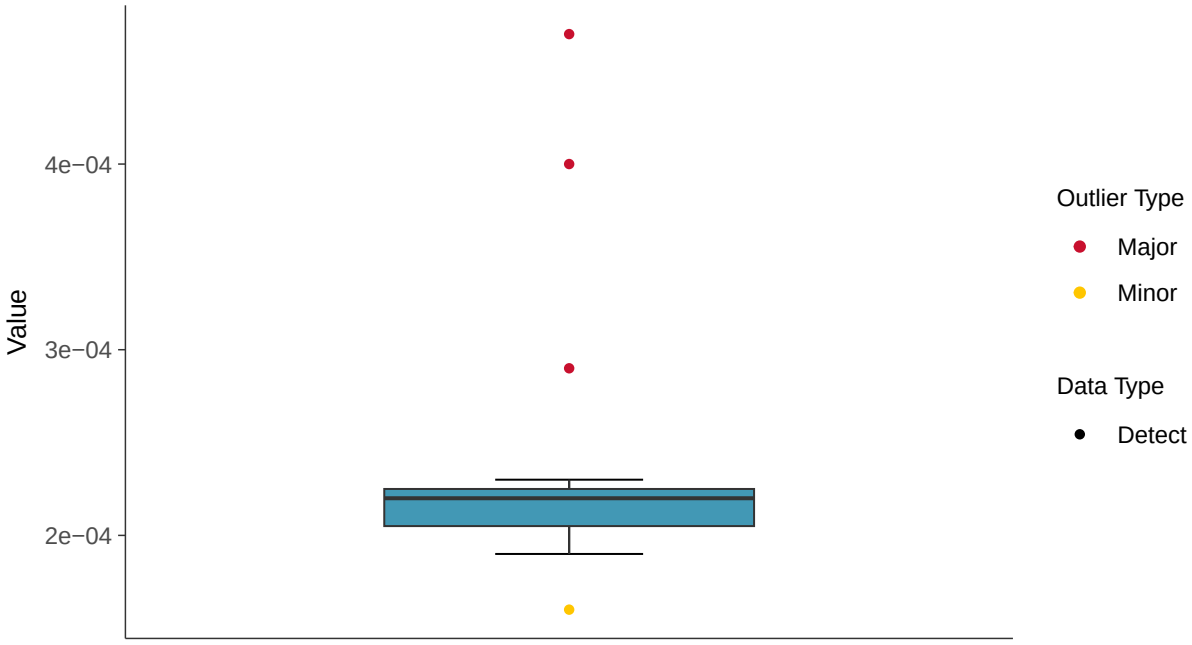
Histogram

Selenium, MW-06 (mg/L)



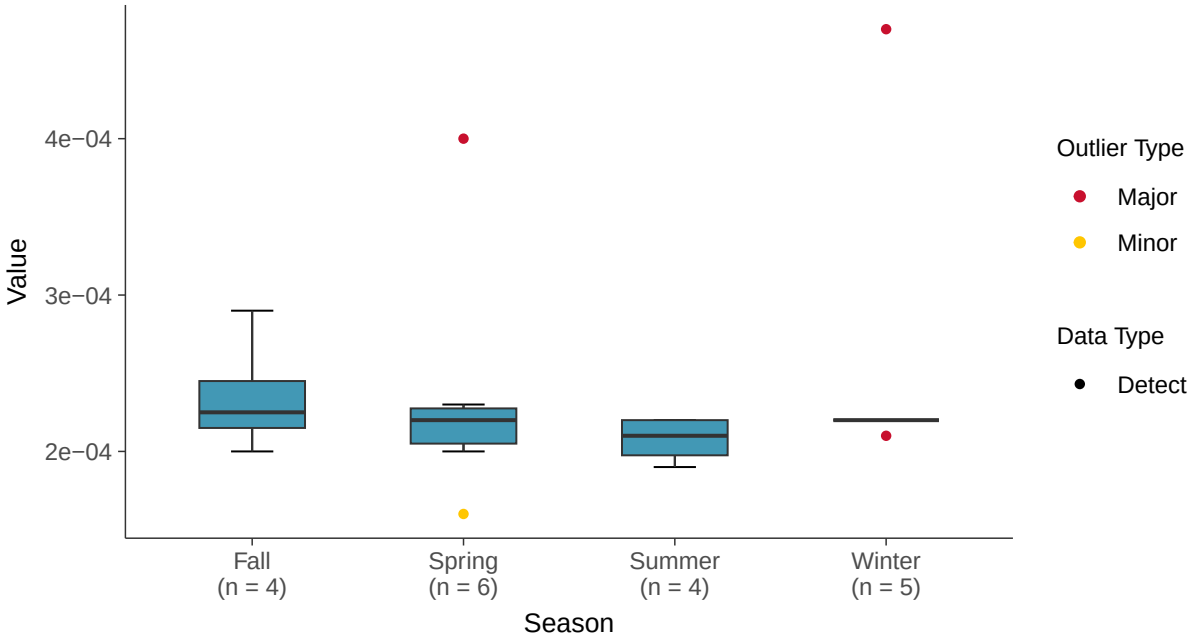
Boxplot

Selenium, MW-06 (mg/L)



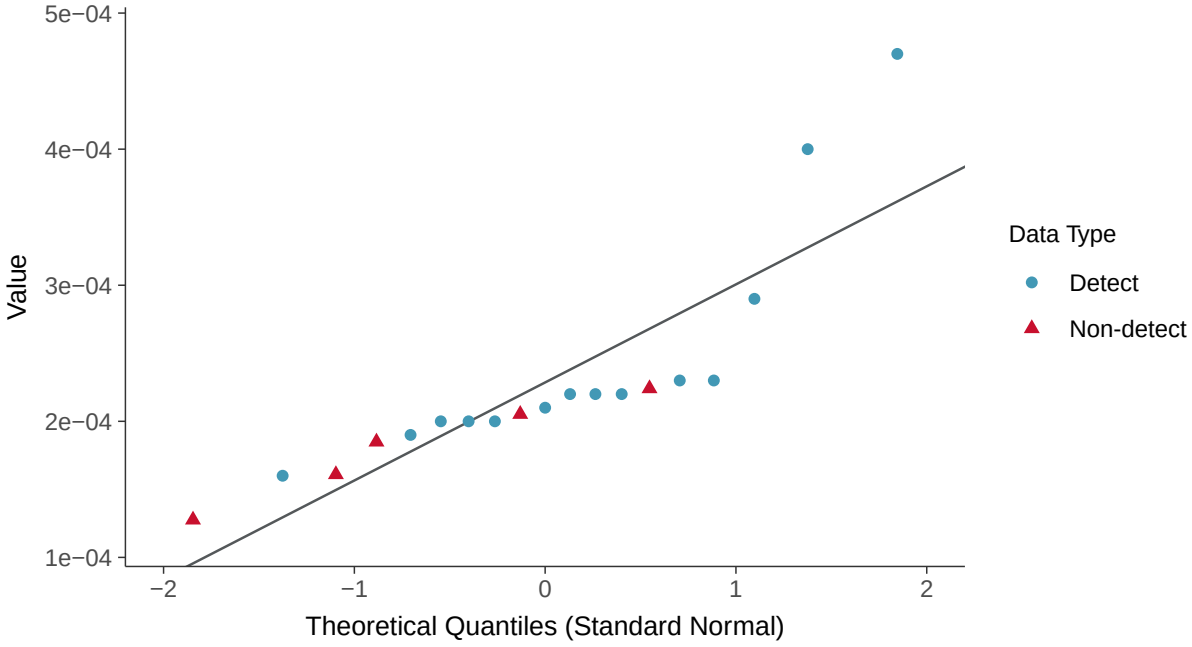
Boxplot by Season

Selenium, MW-06 (mg/L)



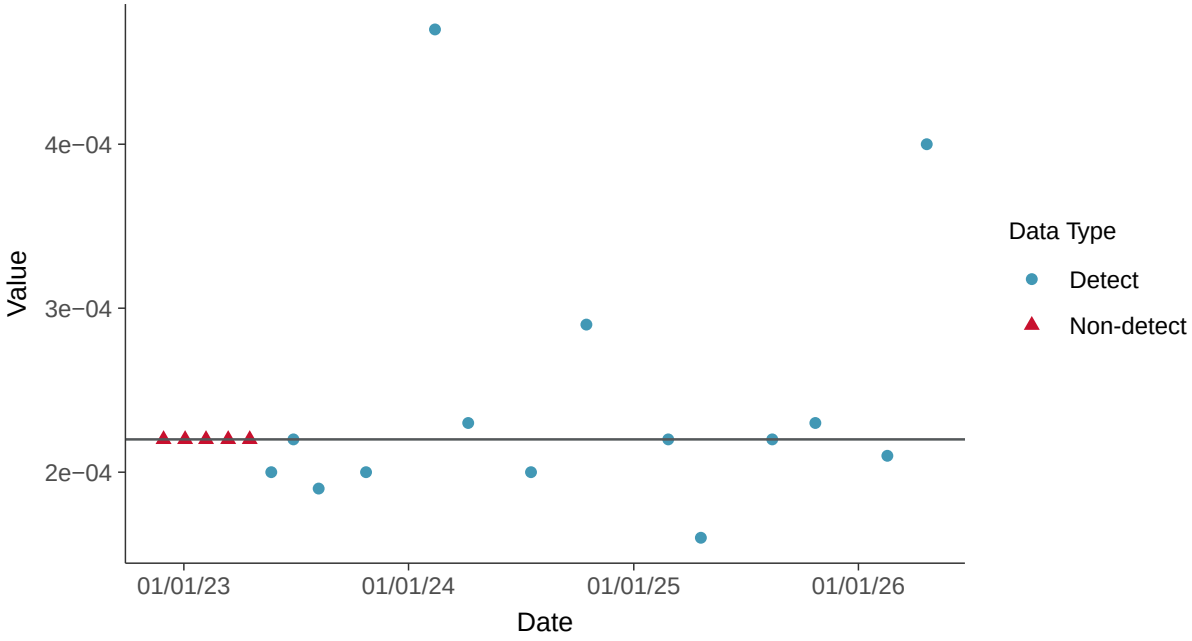
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-06 (mg/L)



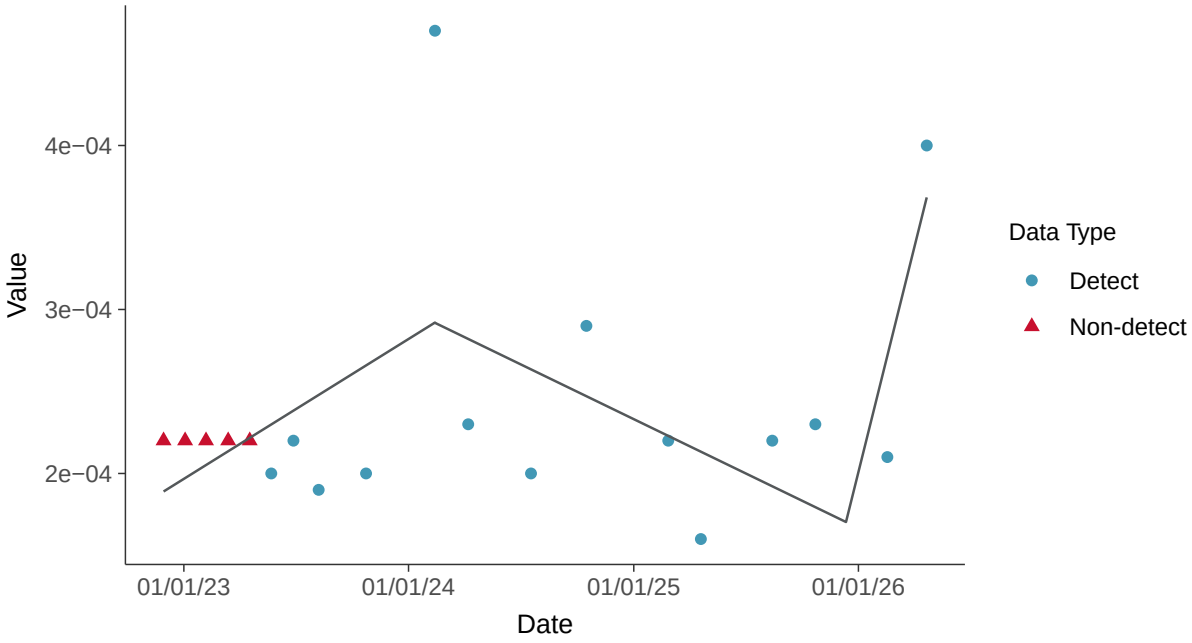
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-06 (mg/L)

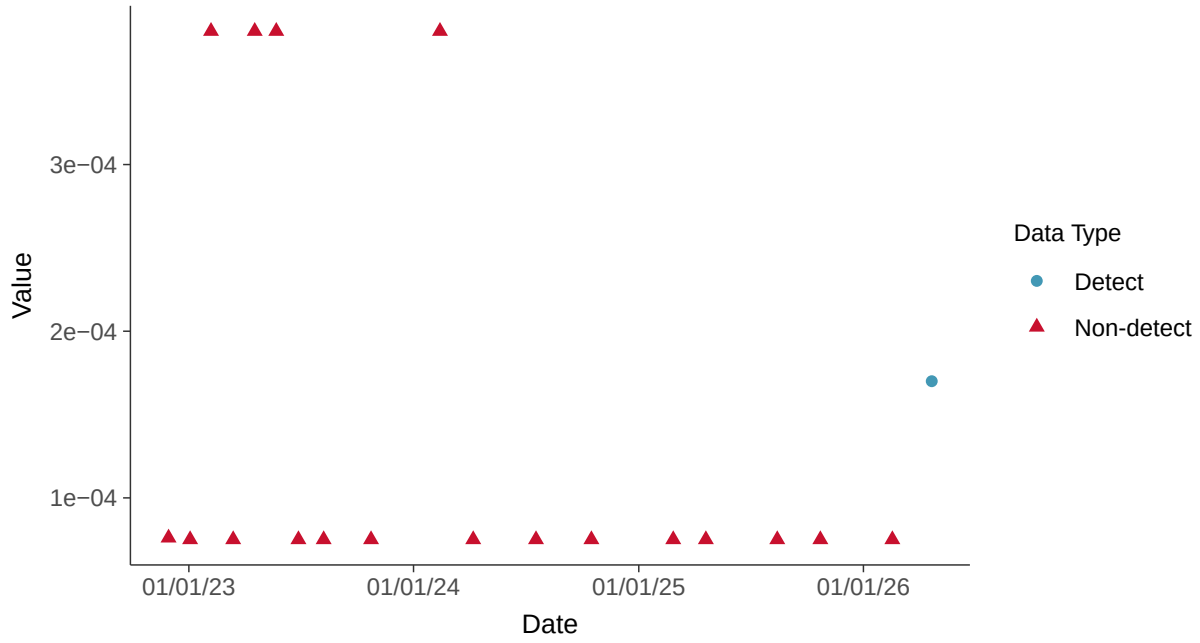


Appendix IV: Thallium, MW-06

ID: 16_1_4_125

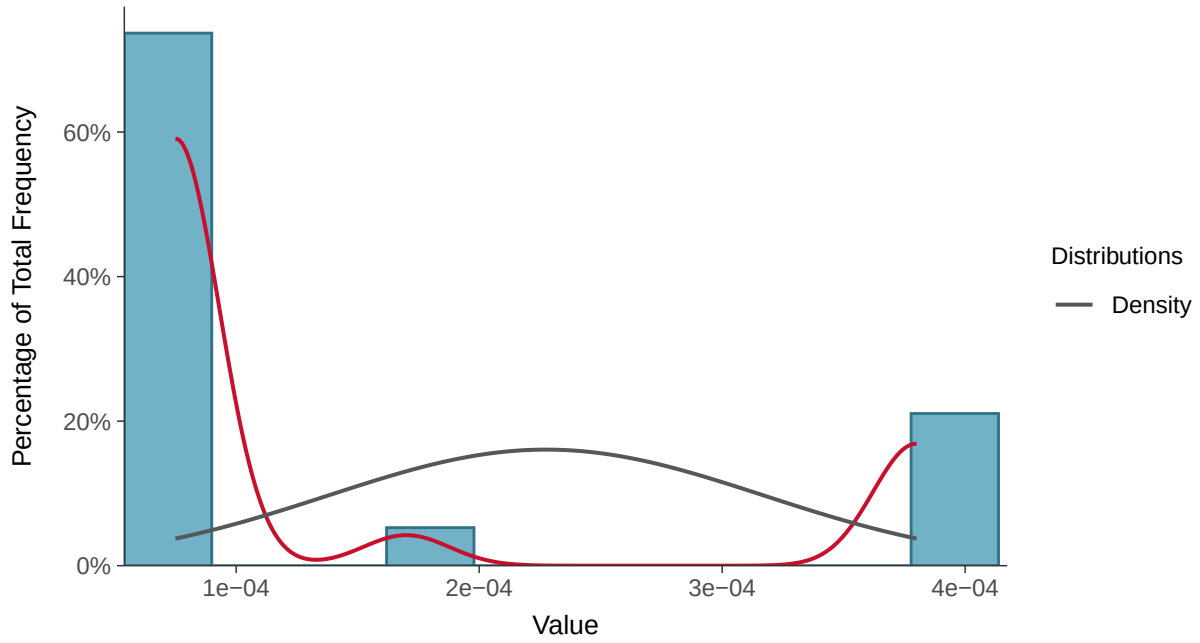
Scatter Plot

Thallium, MW-06 (mg/L)



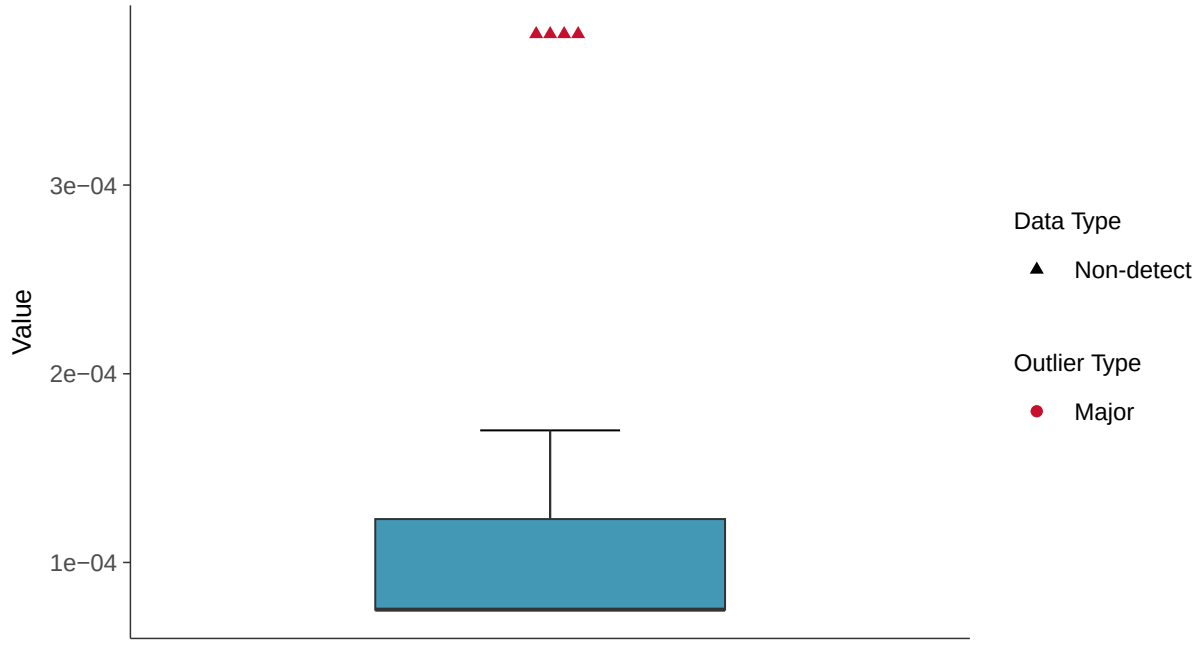
Histogram

Thallium, MW-06 (mg/L)



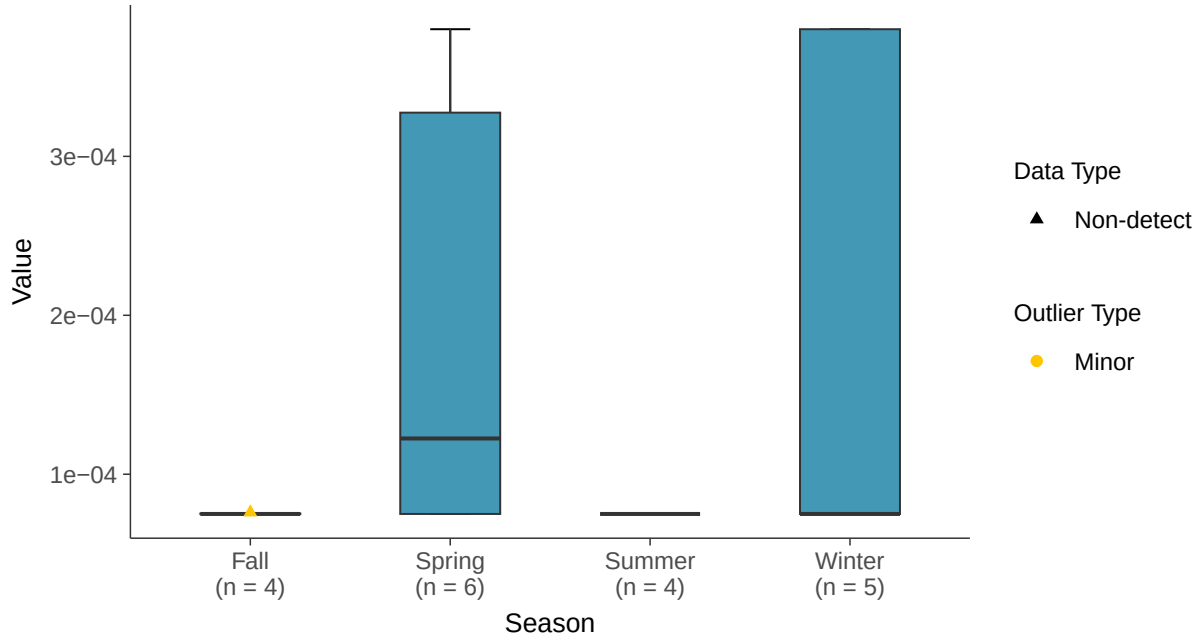
Boxplot

Thallium, MW-06 (mg/L)



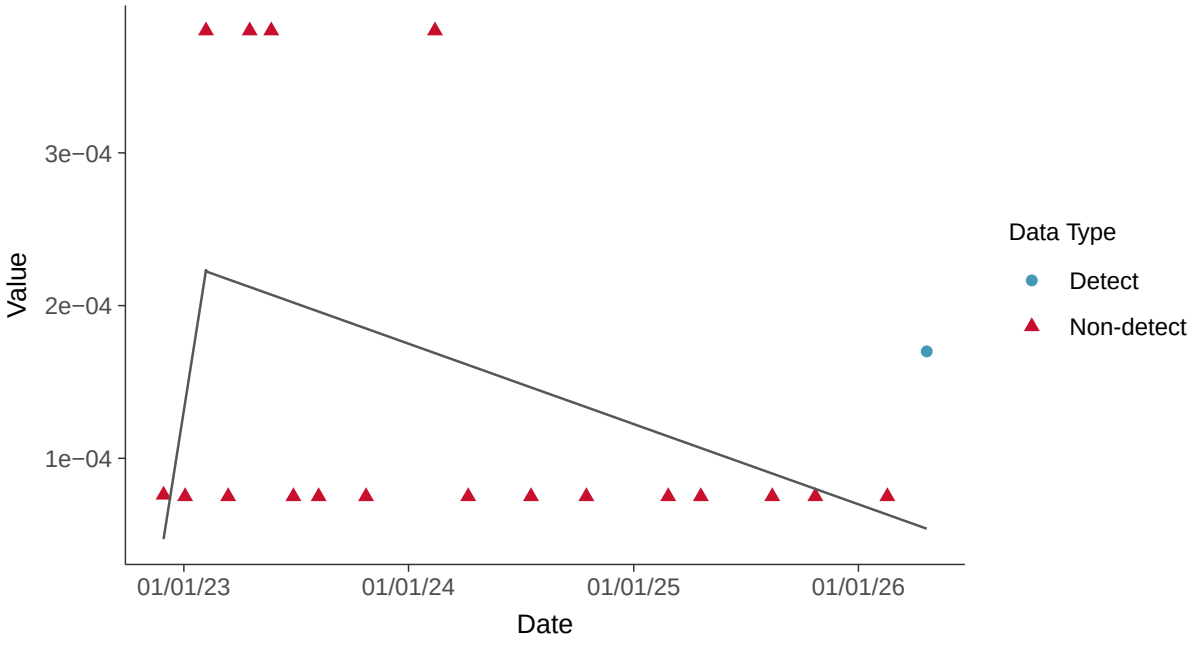
Boxplot by Season

Thallium, MW-06 (mg/L)



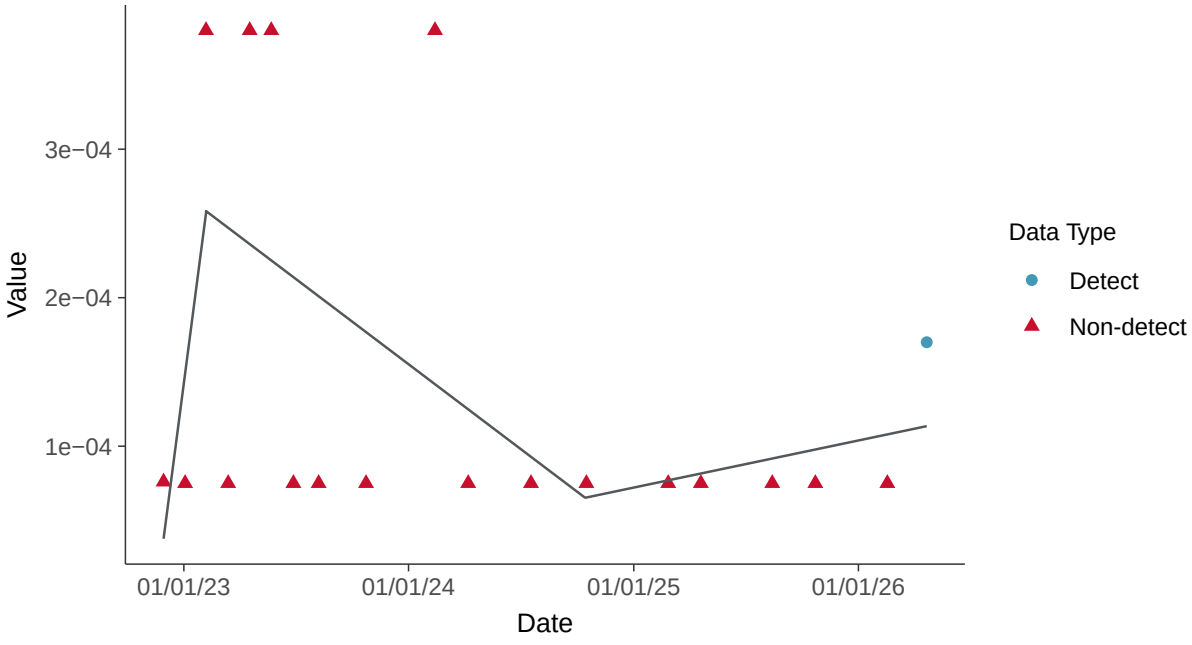
Trend Regression: Piecewise Linear-Linear

Thallium, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-06 (mg/L)

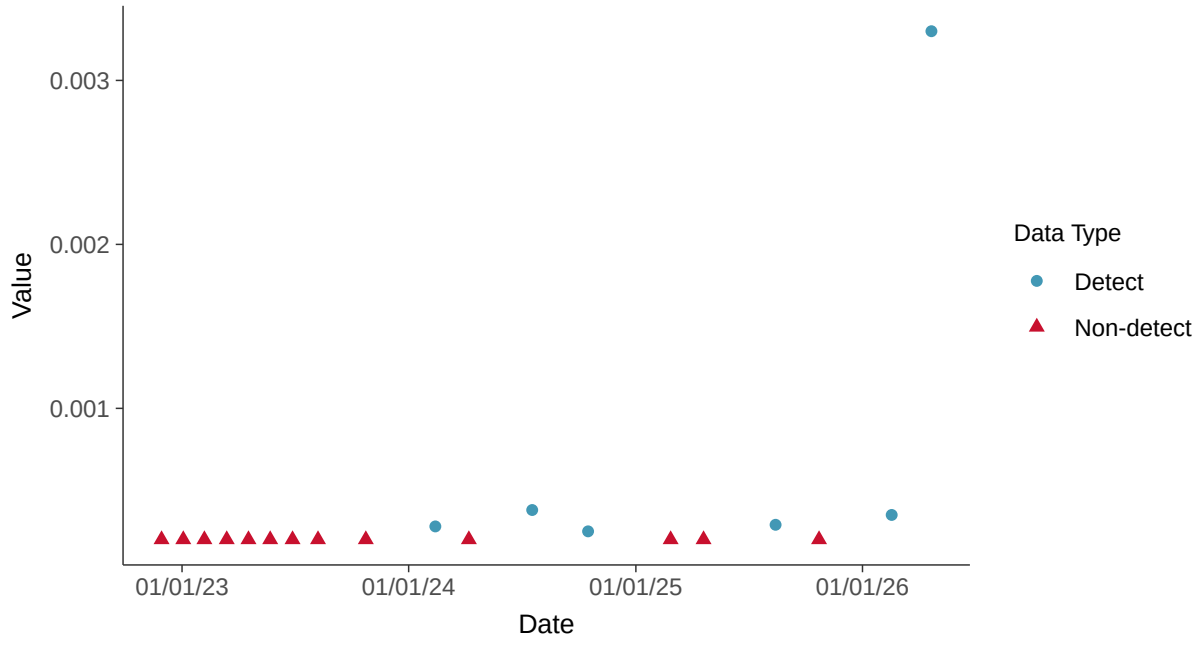


Part 115: Copper, MW-06

ID: 16_1_5_111

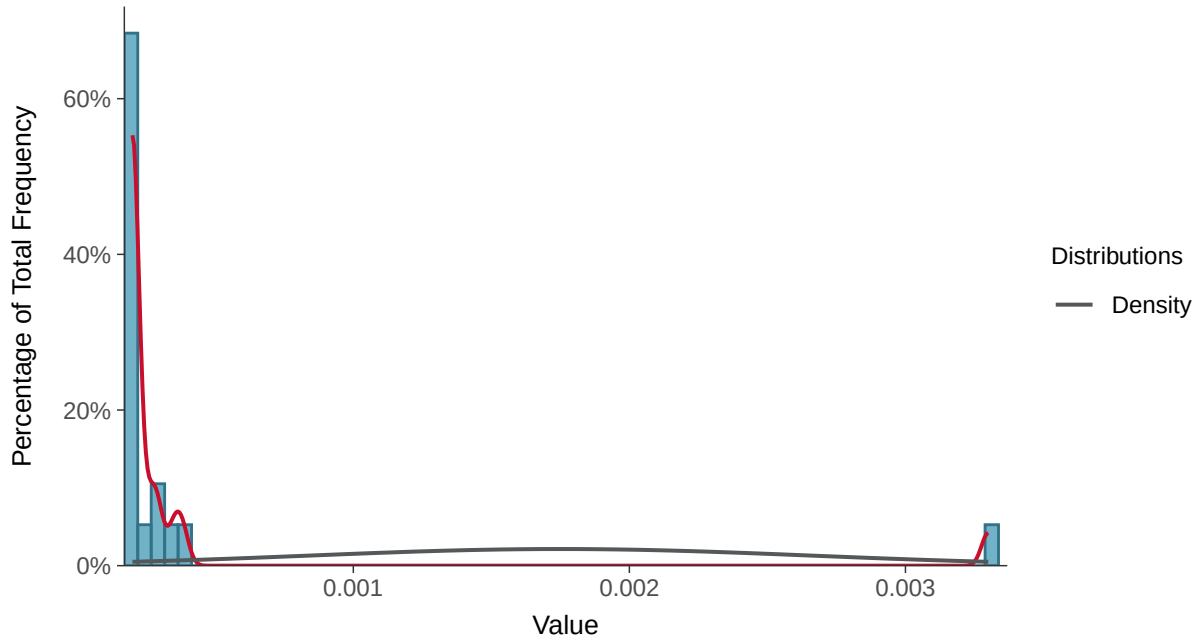
Scatter Plot

Copper, MW-06 (mg/L)



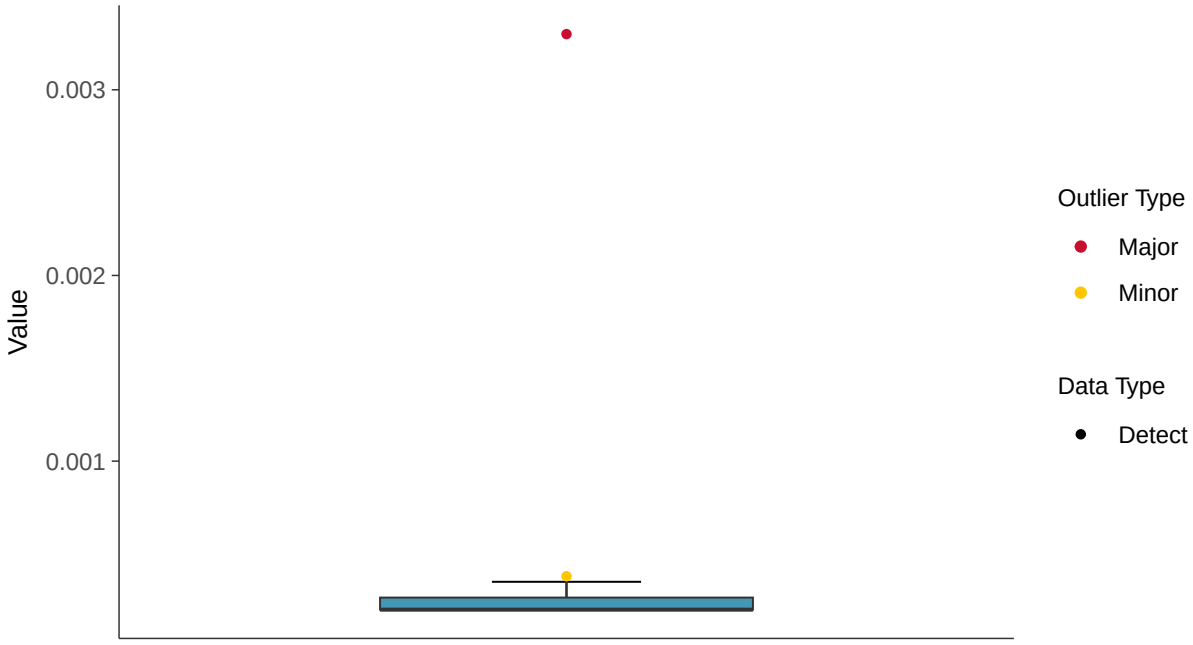
Histogram

Copper, MW-06 (mg/L)



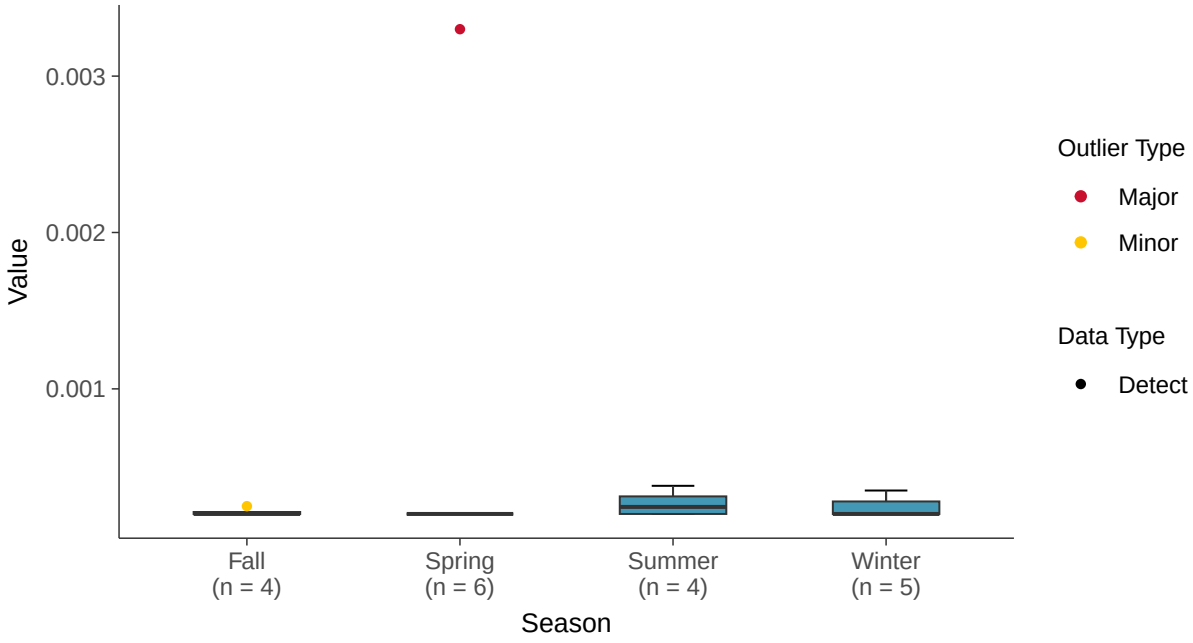
Boxplot

Copper, MW-06 (mg/L)



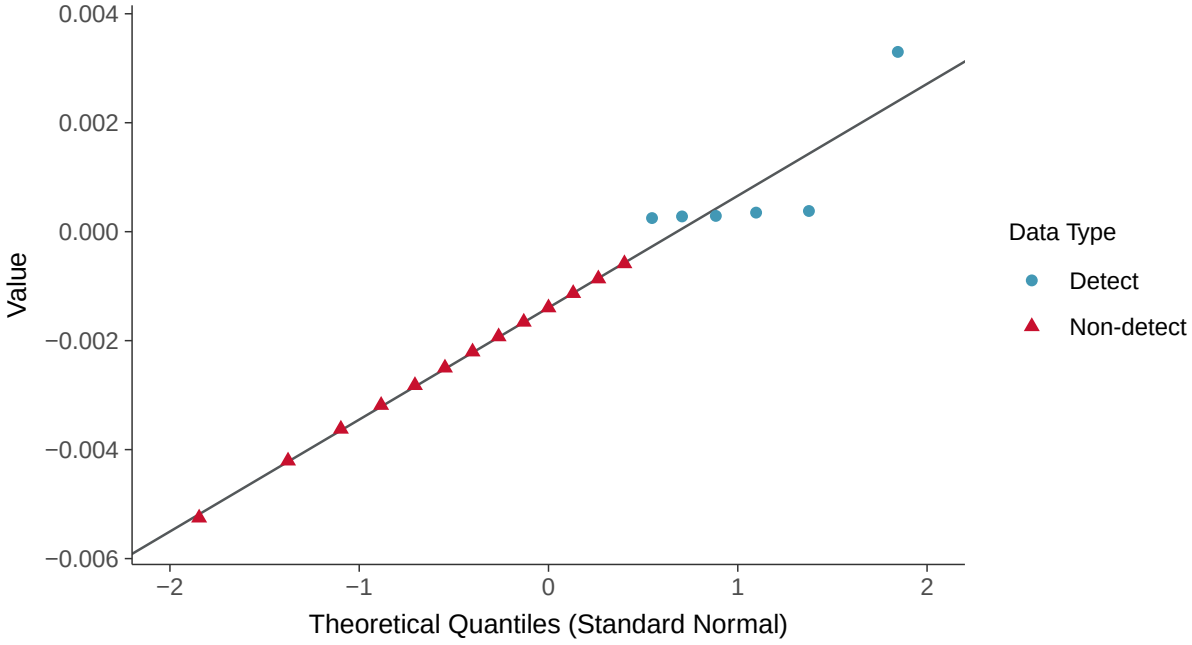
Boxplot by Season

Copper, MW-06 (mg/L)



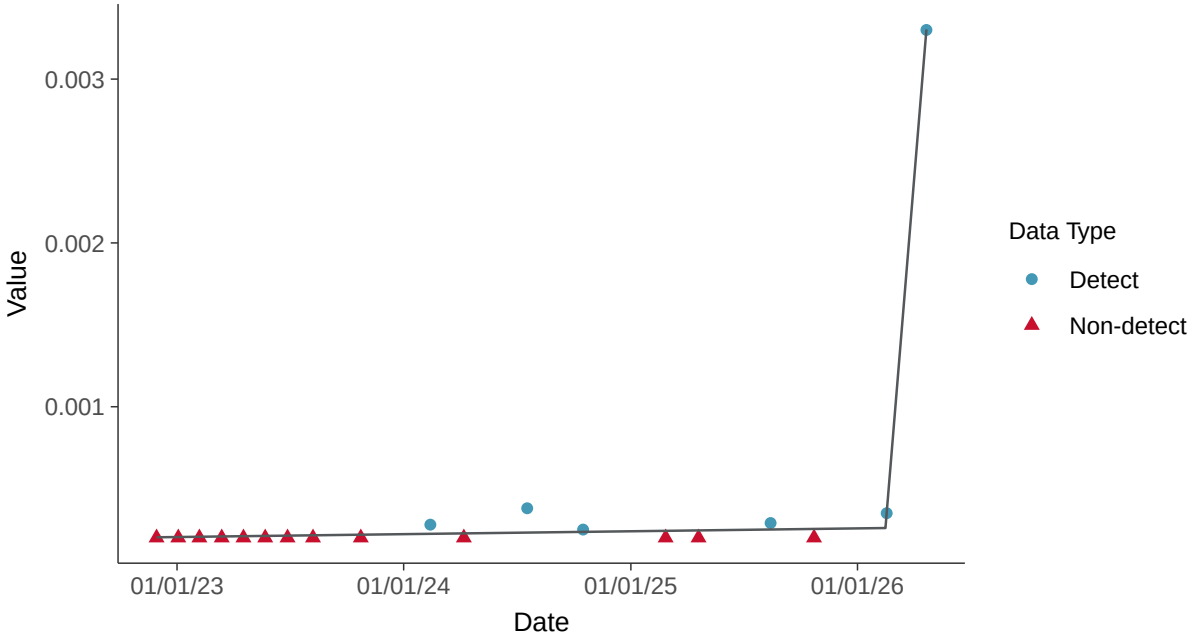
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-06 (mg/L)



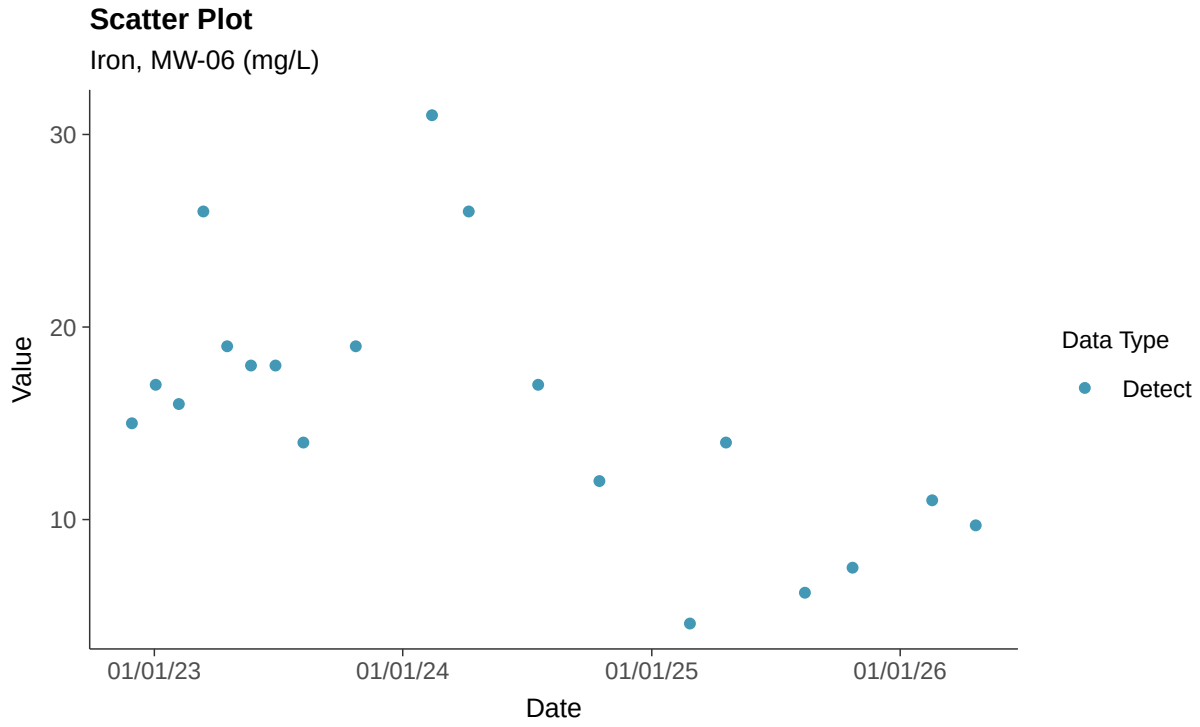
Trend Regression: Piecewise Linear-Linear

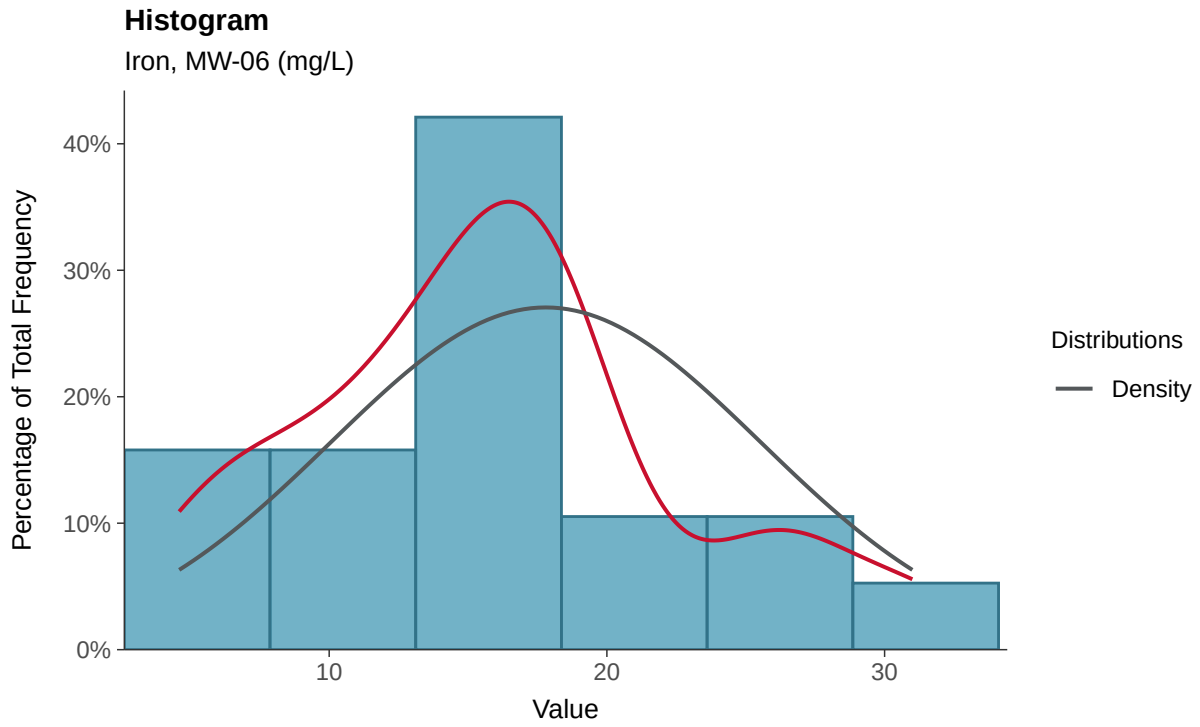
Copper, MW-06 (mg/L)



Part 115: Iron, MW-06

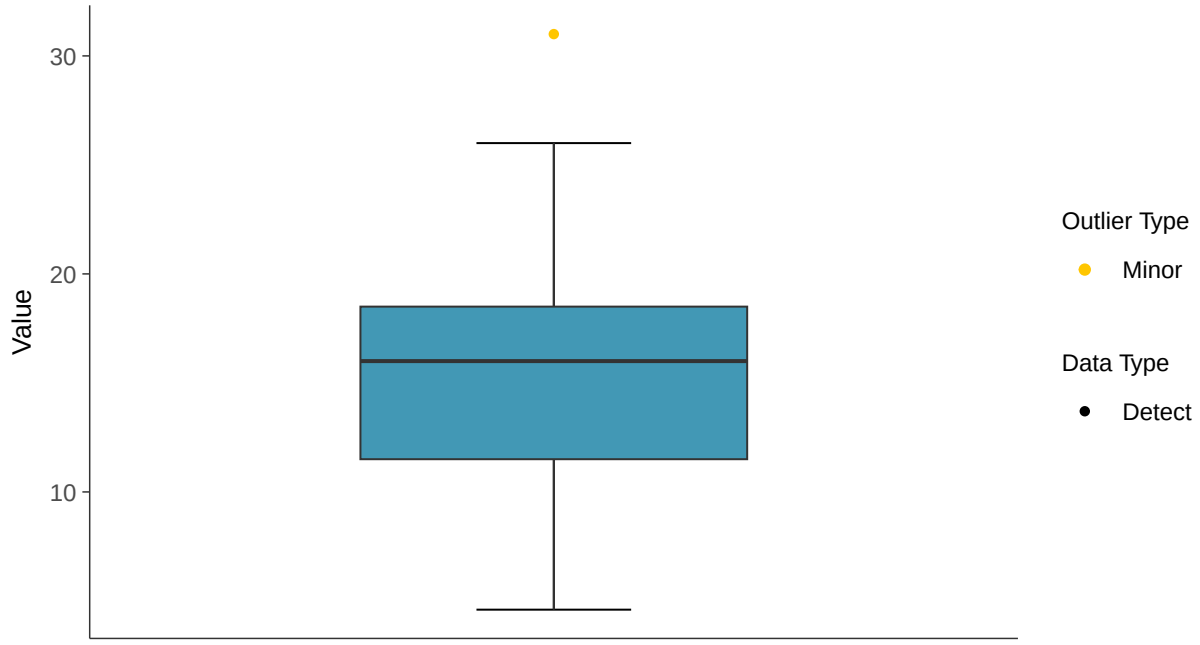
ID: 16_1_5_114





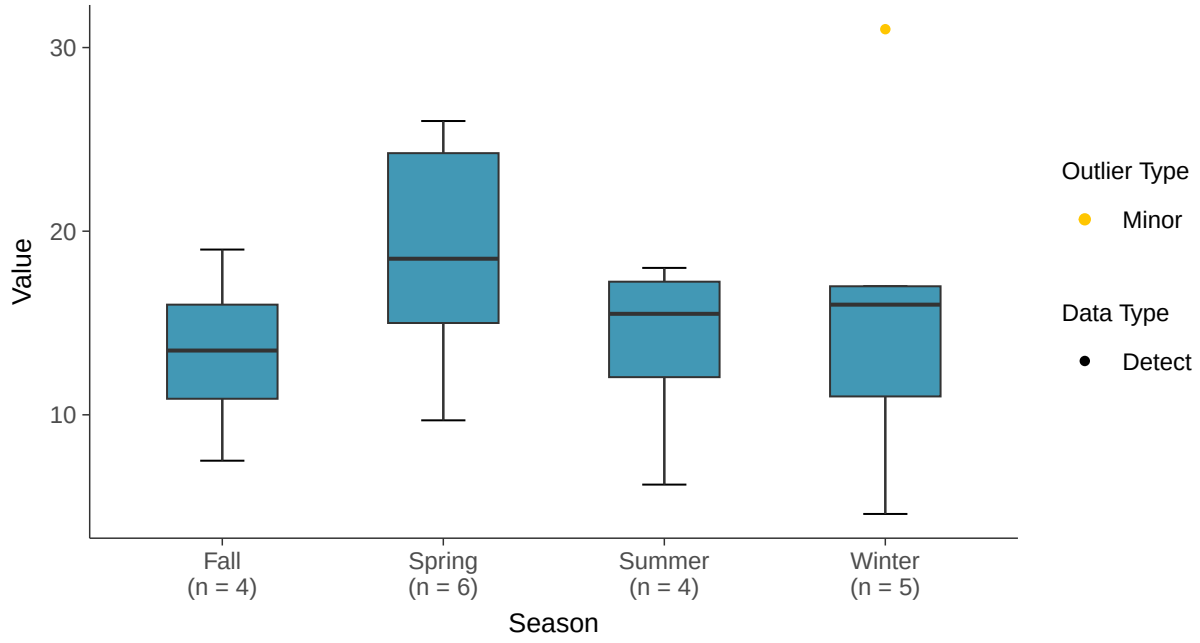
Boxplot

Iron, MW-06 (mg/L)



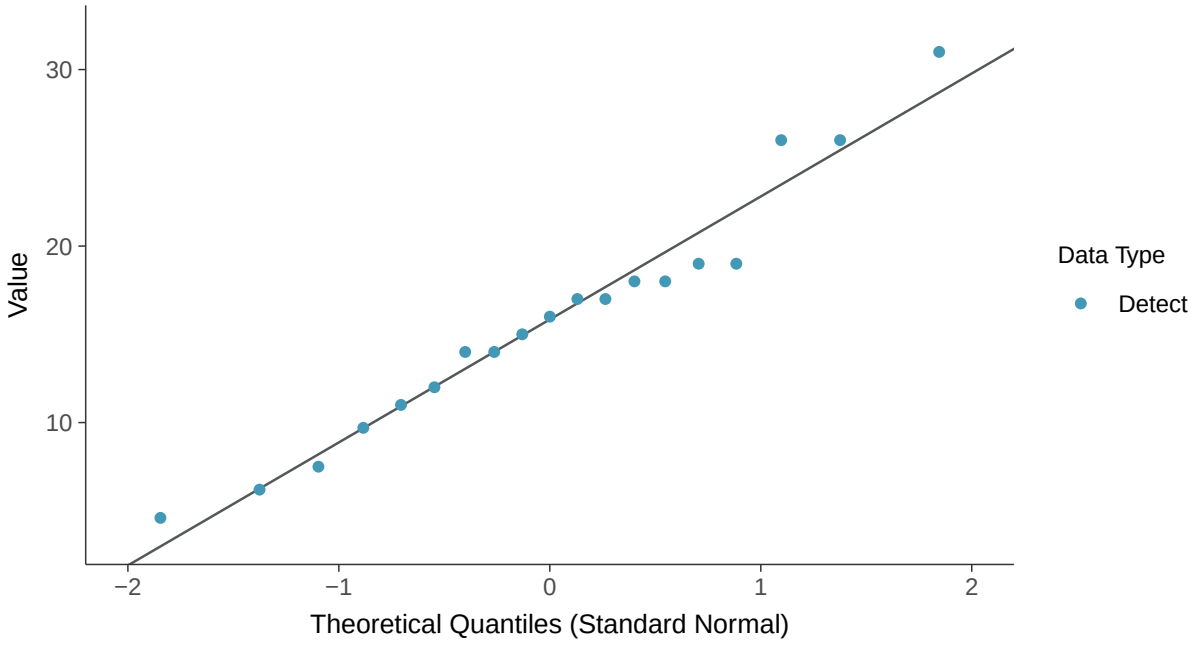
Boxplot by Season

Iron, MW-06 (mg/L)



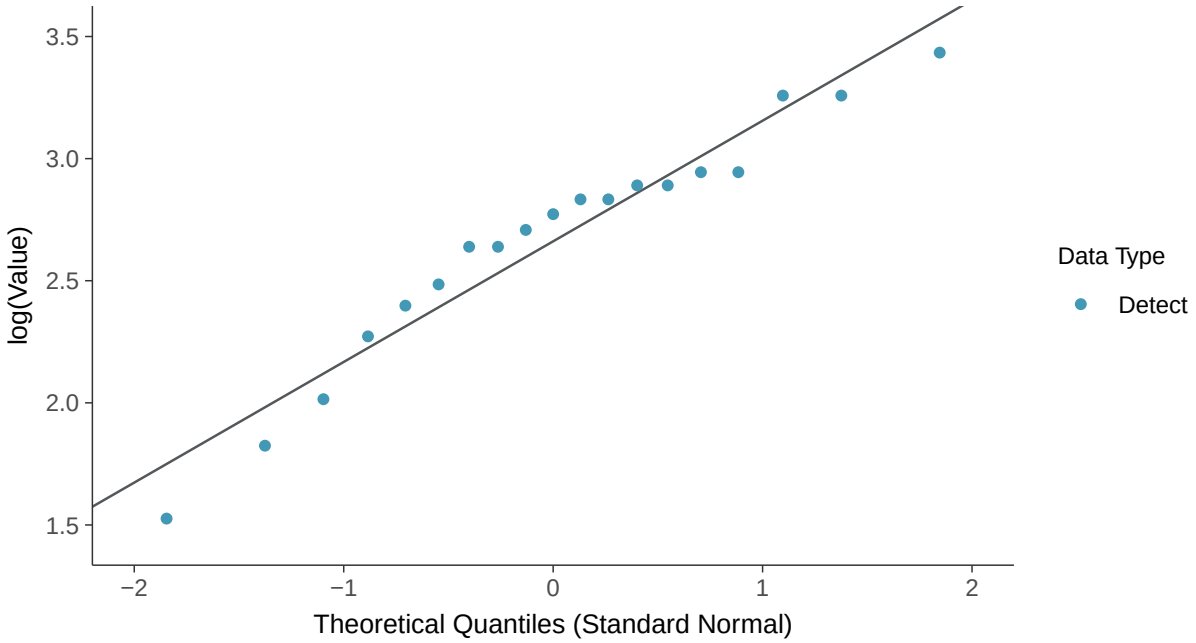
Normal Q-Q plot

Iron, MW-06 (mg/L)



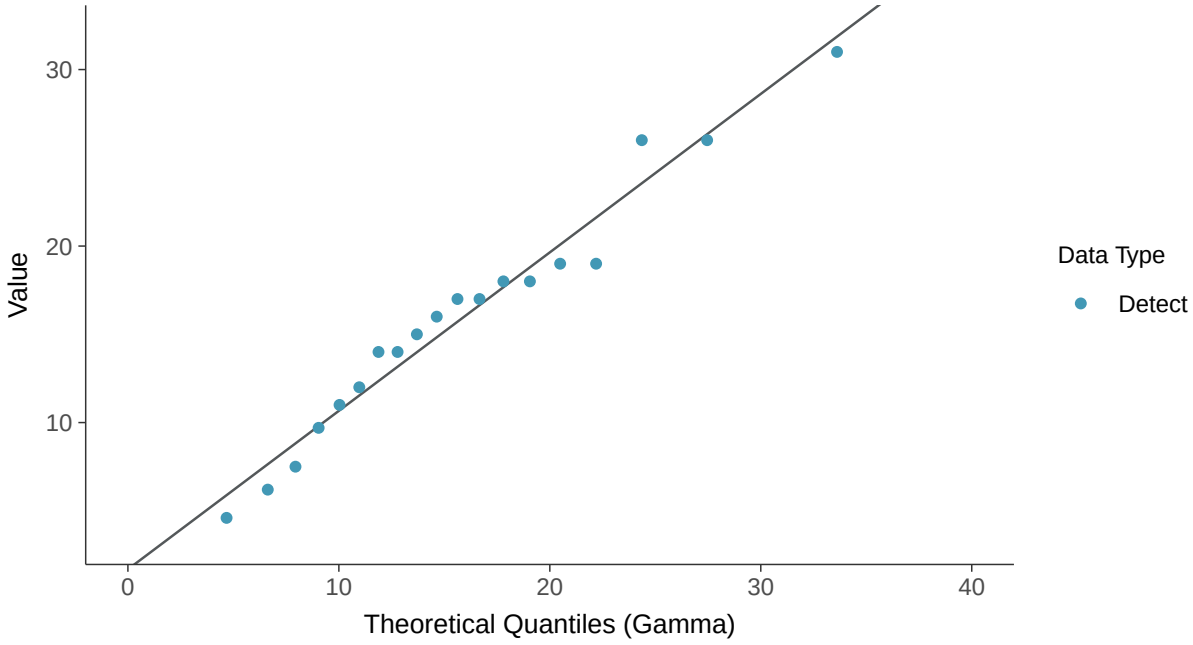
Lognormal Q-Q plot

Iron, MW-06 (mg/L)



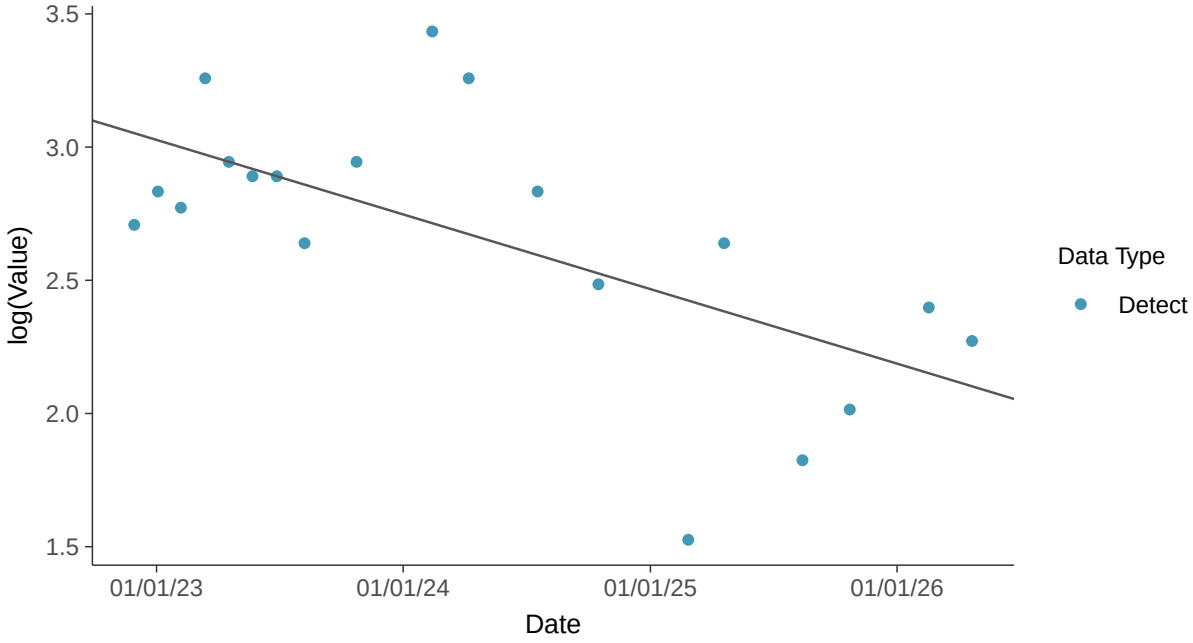
Gamma Q-Q plot

Iron, MW-06 (mg/L)



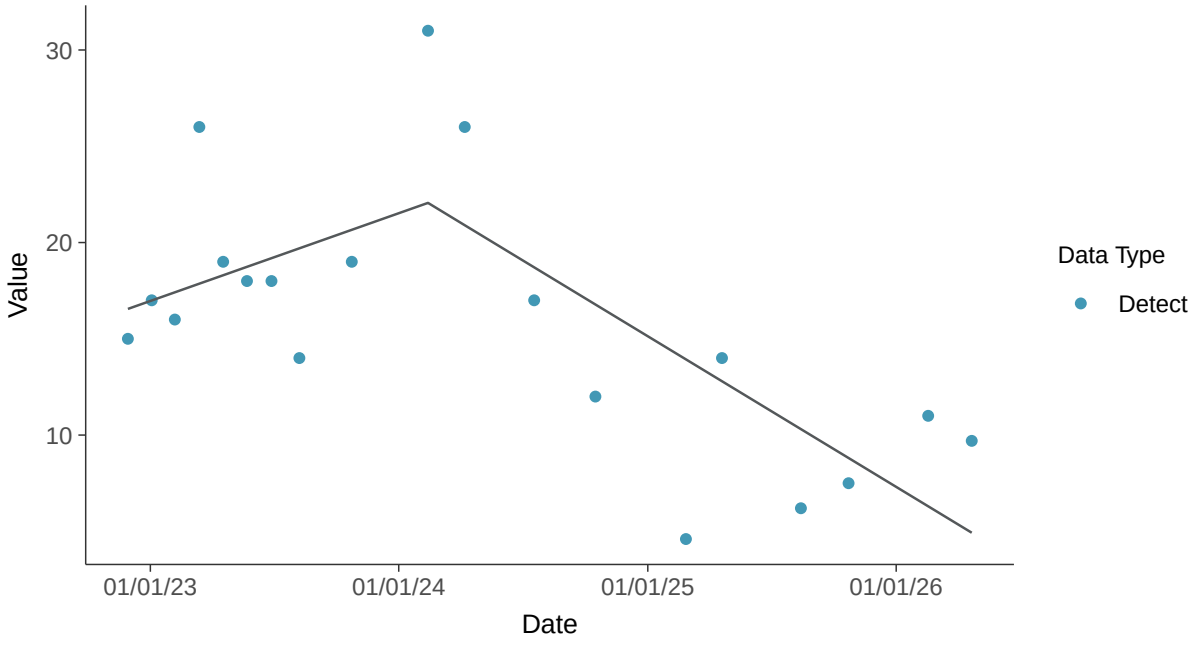
Trend Regression: Lognormal MLE

Iron, MW-06 (mg/L)



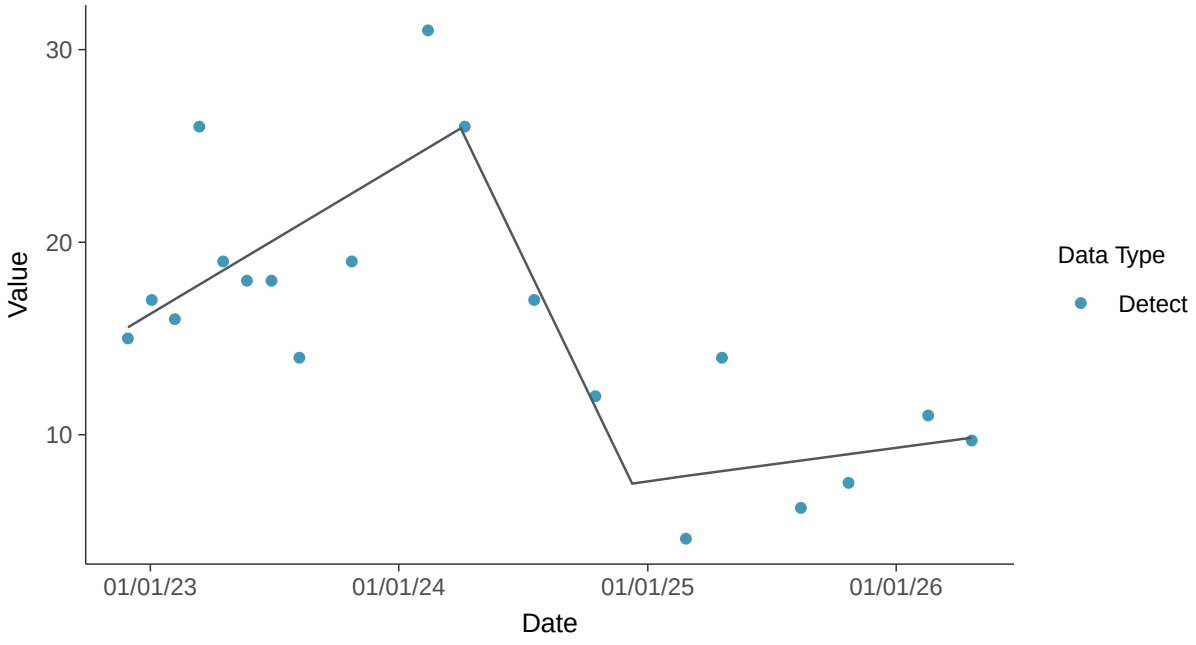
Trend Regression: Piecewise Linear-Linear

Iron, MW-06 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-06 (mg/L)

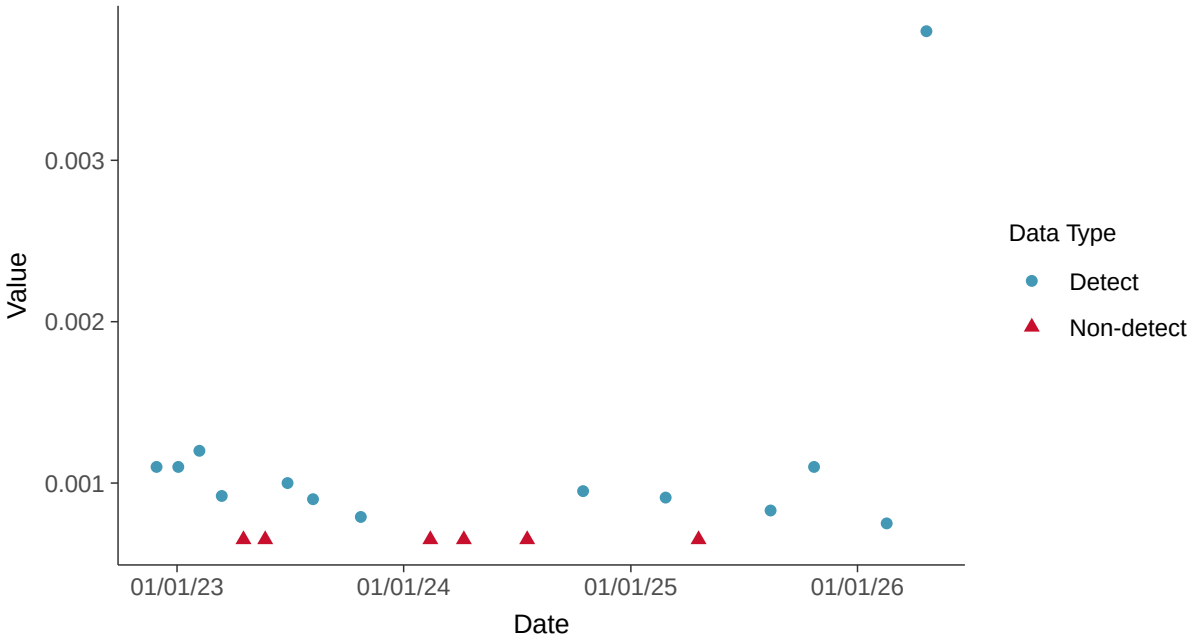


Part 115: Nickel, MW-06

ID: 16_1_5_119

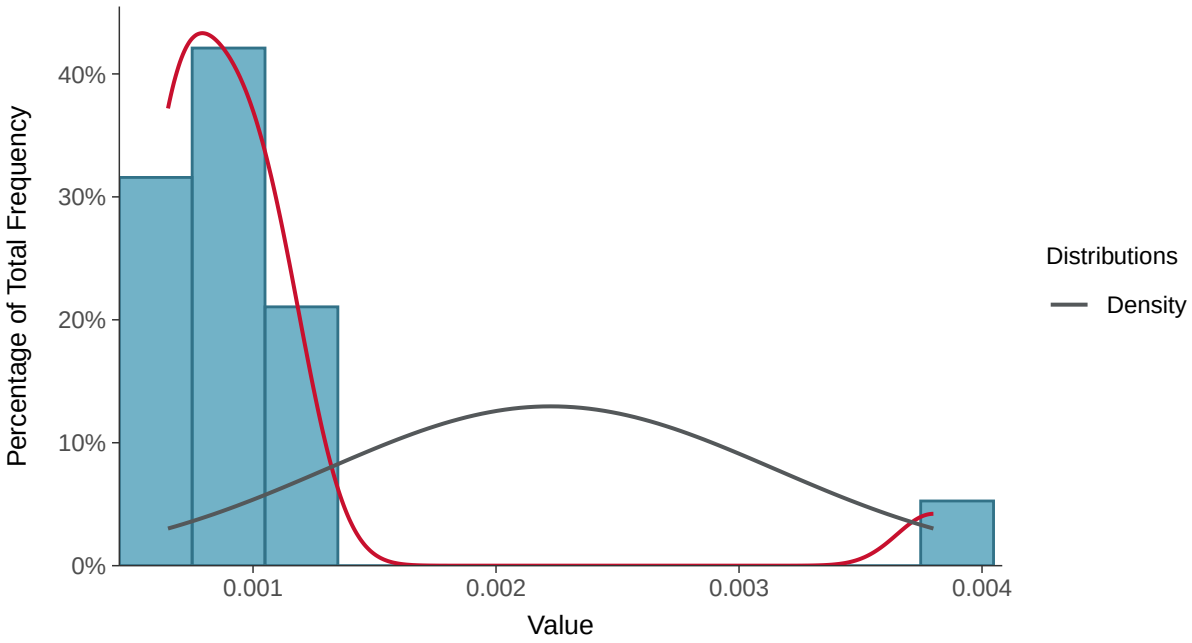
Scatter Plot

Nickel, MW-06 (mg/L)



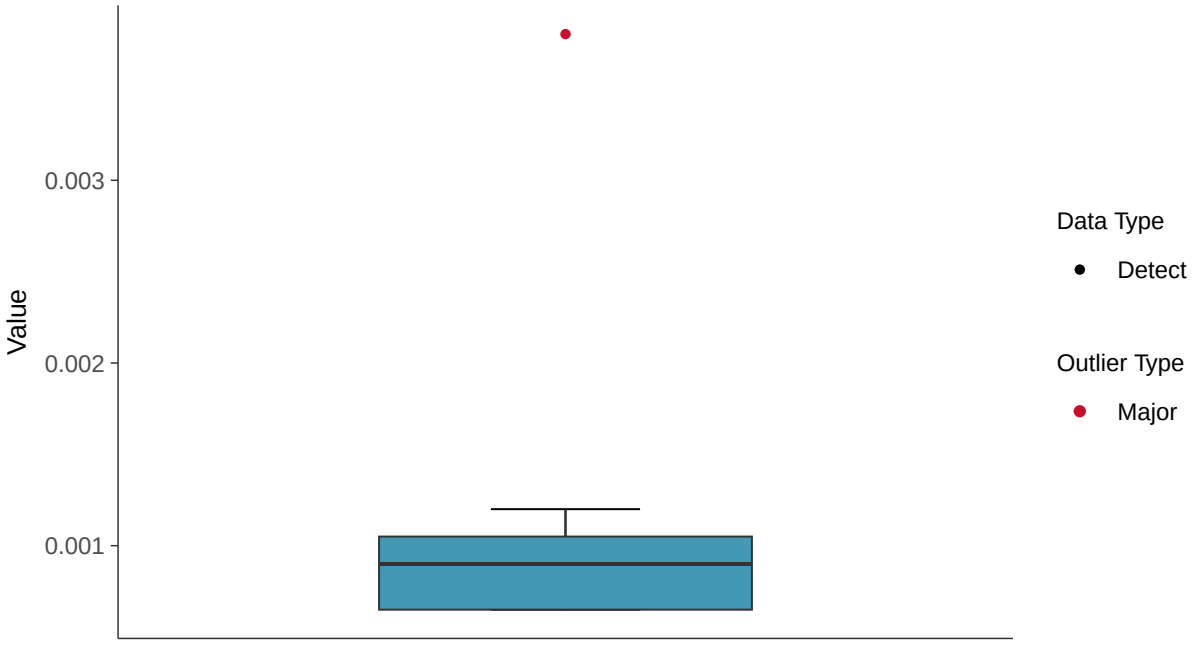
Histogram

Nickel, MW-06 (mg/L)



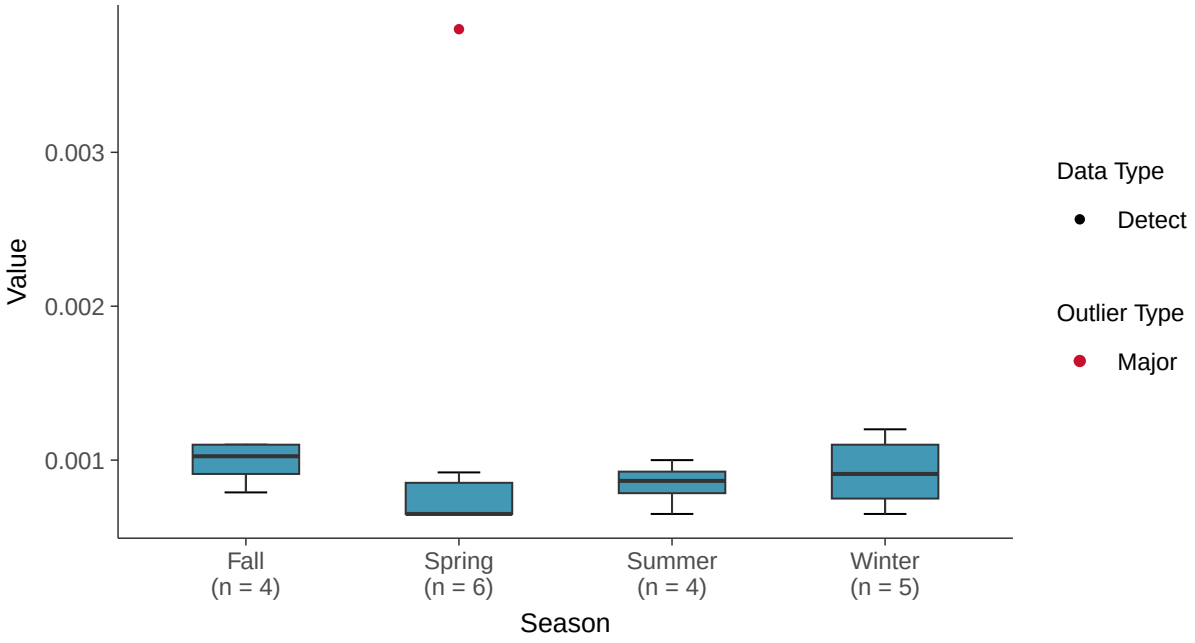
Boxplot

Nickel, MW-06 (mg/L)



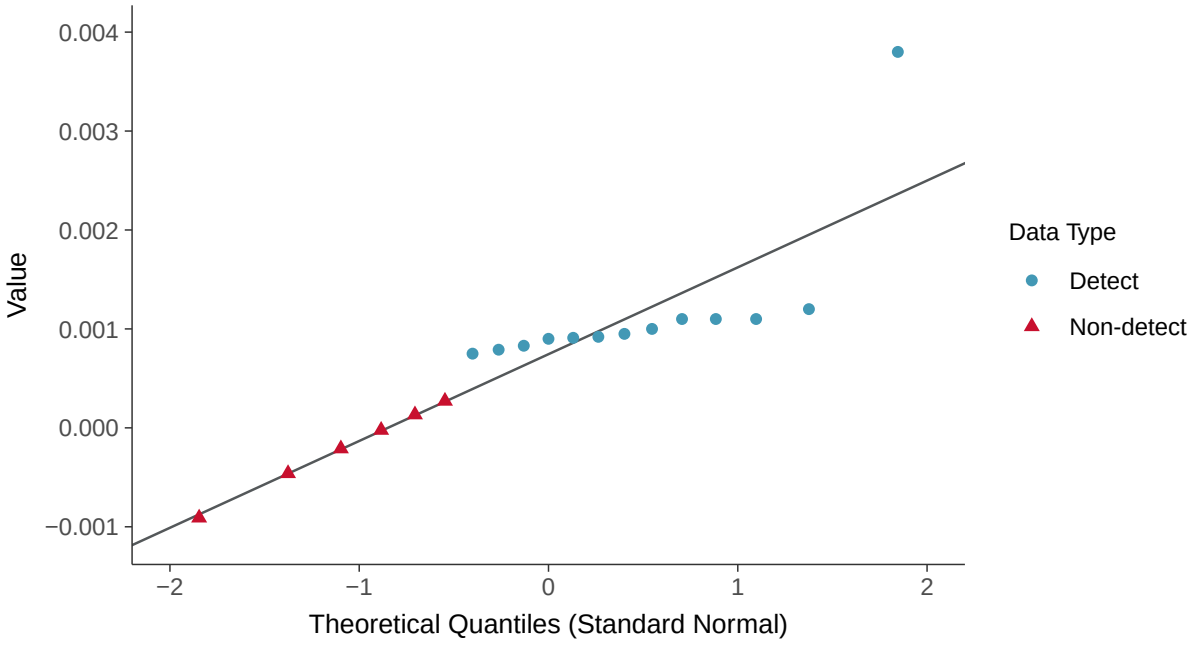
Boxplot by Season

Nickel, MW-06 (mg/L)



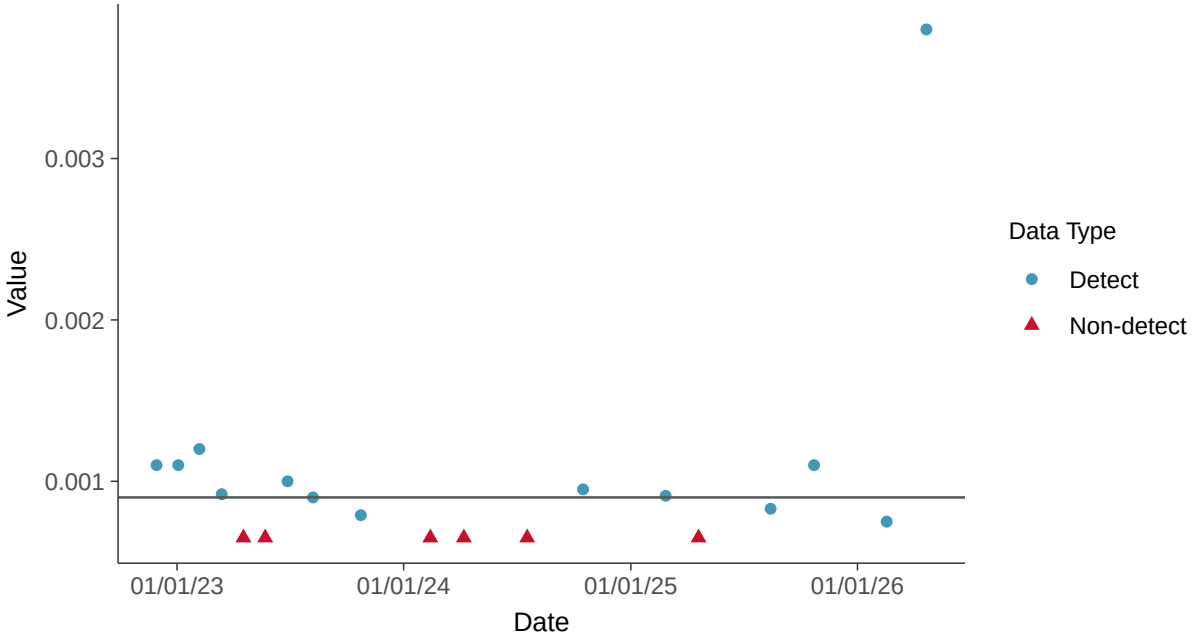
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-06 (mg/L)



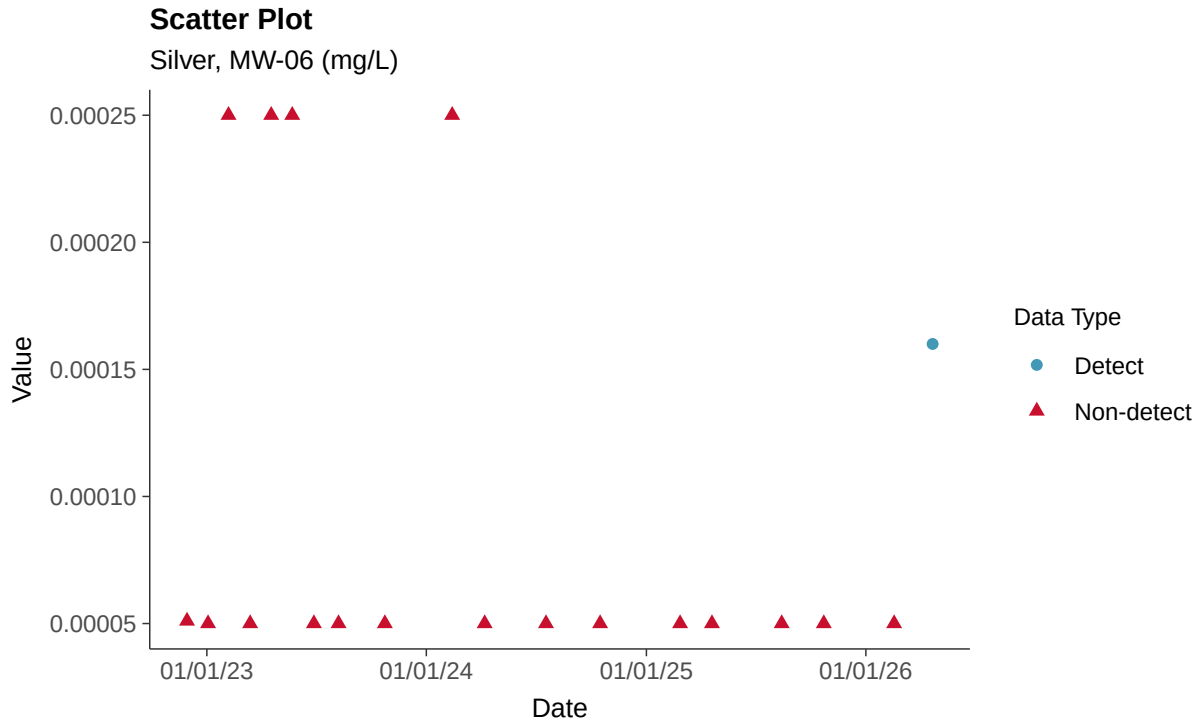
Trend Regression: Mann-Kendall/Theil-Sen Estimate

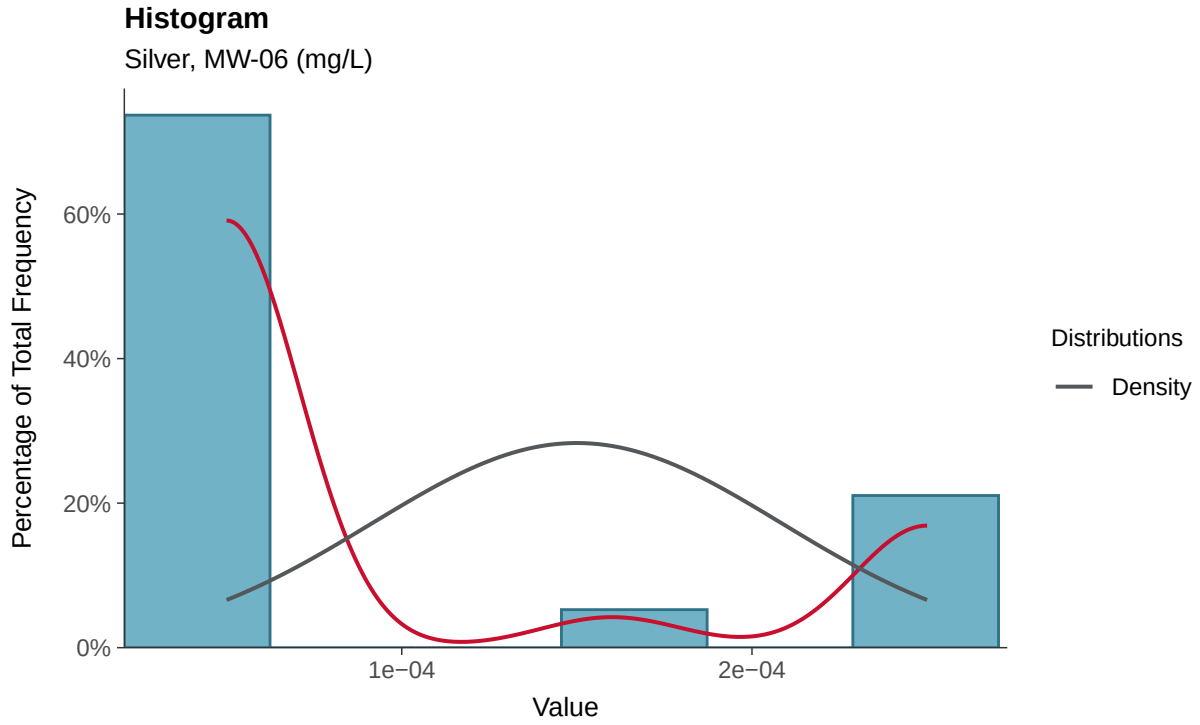
Nickel, MW-06 (mg/L)



Part 115: Silver, MW-06

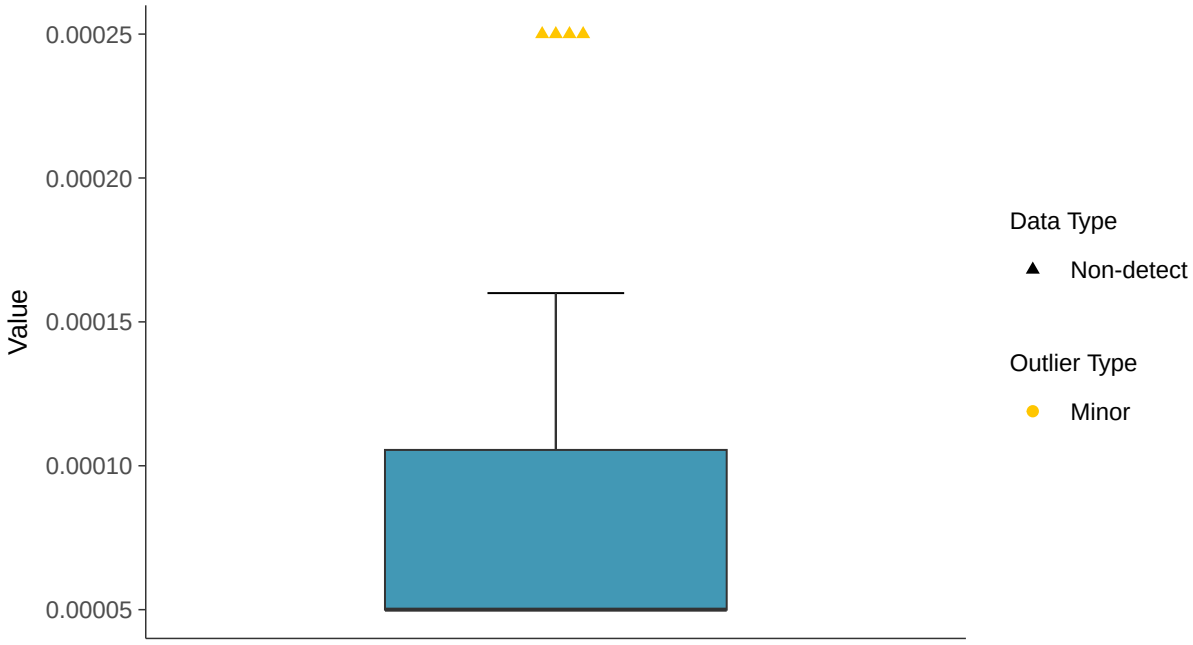
ID: 16_1_5_123





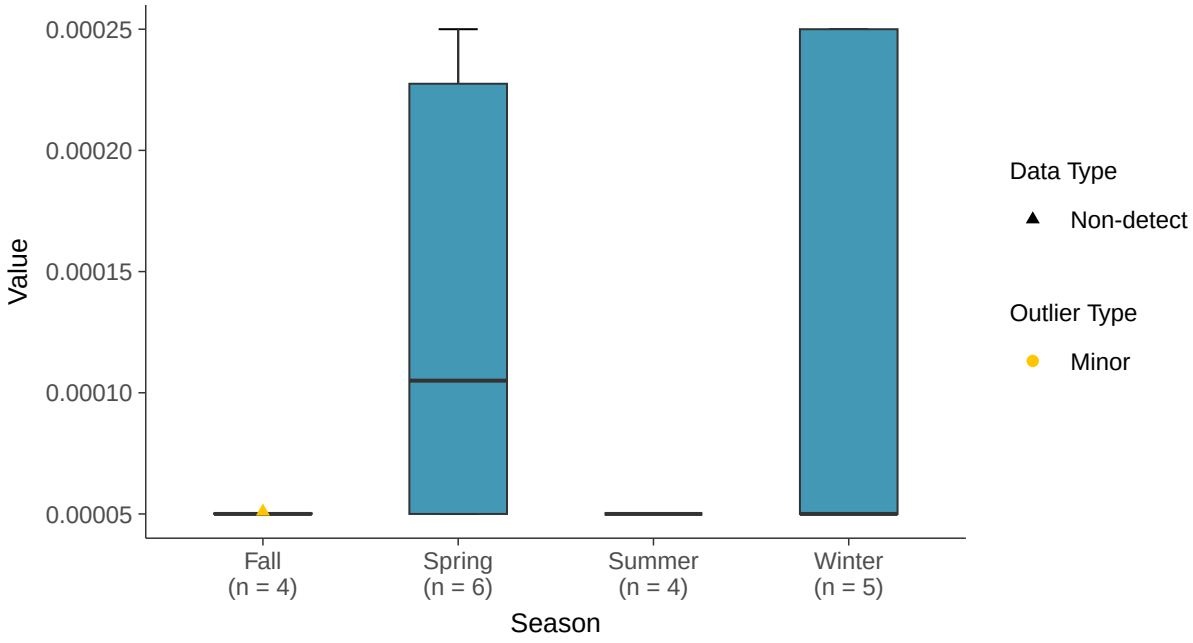
Boxplot

Silver, MW-06 (mg/L)



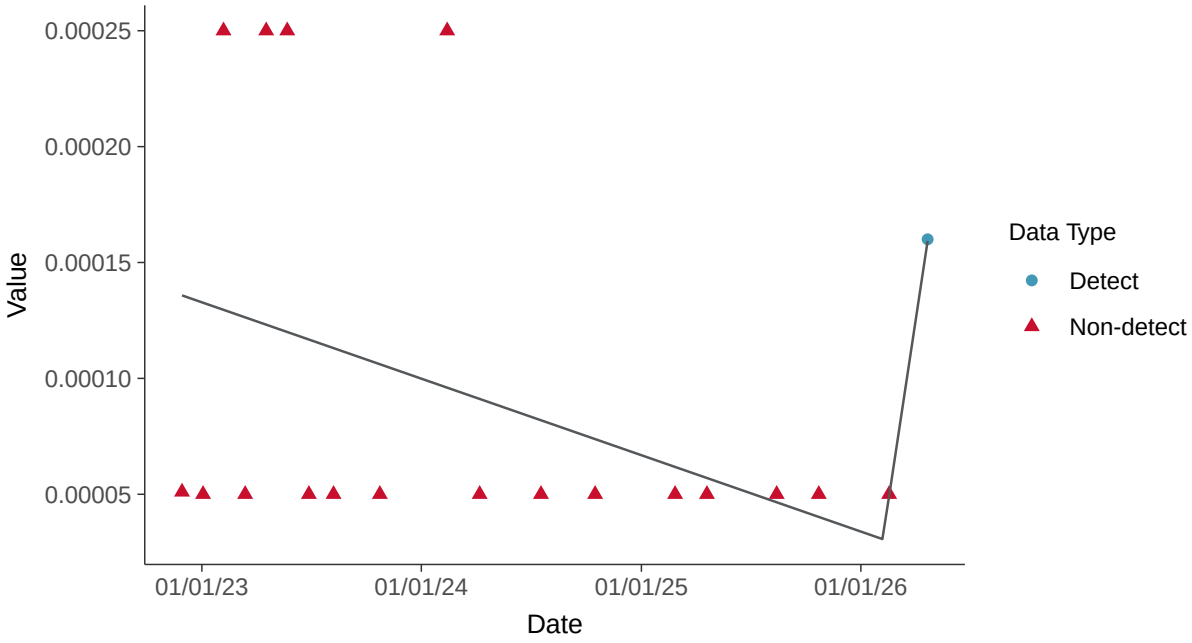
Boxplot by Season

Silver, MW-06 (mg/L)



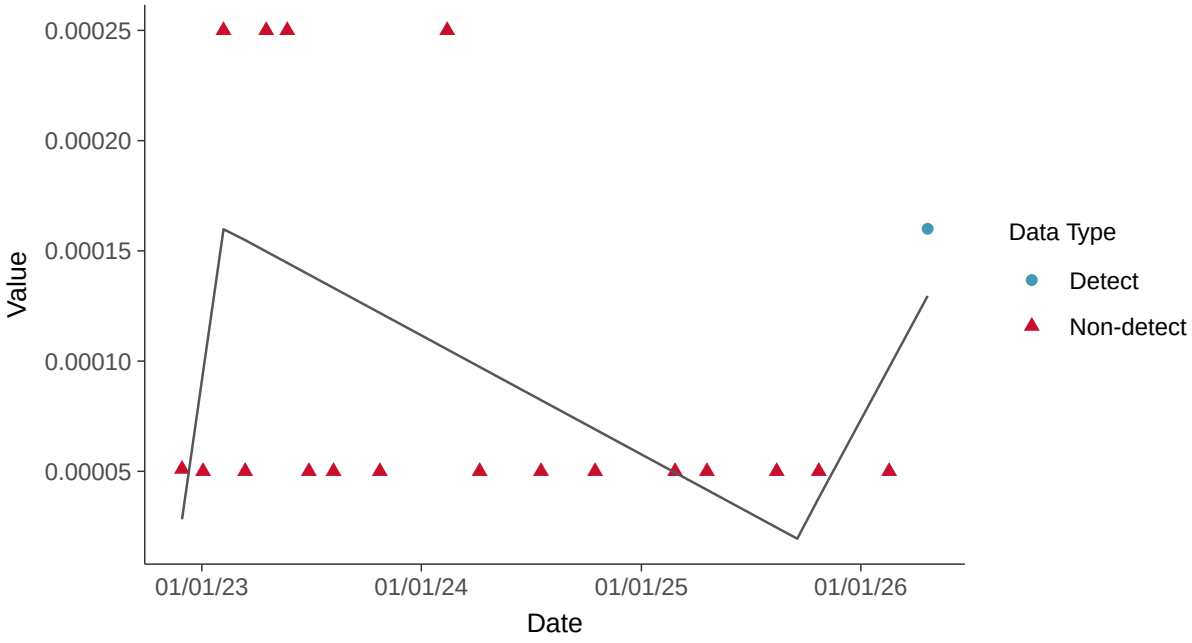
Trend Regression: Piecewise Linear-Linear

Silver, MW-06 (mg/L)



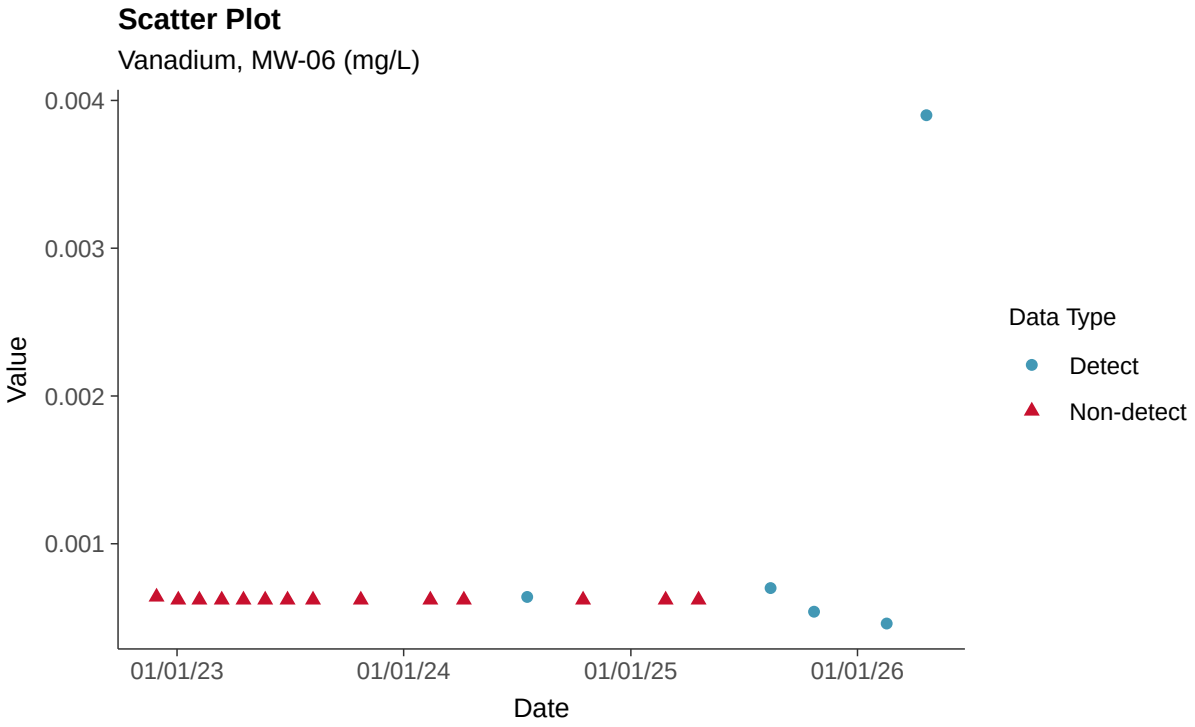
Trend Regression: Piecewise Linear-Linear-Linear

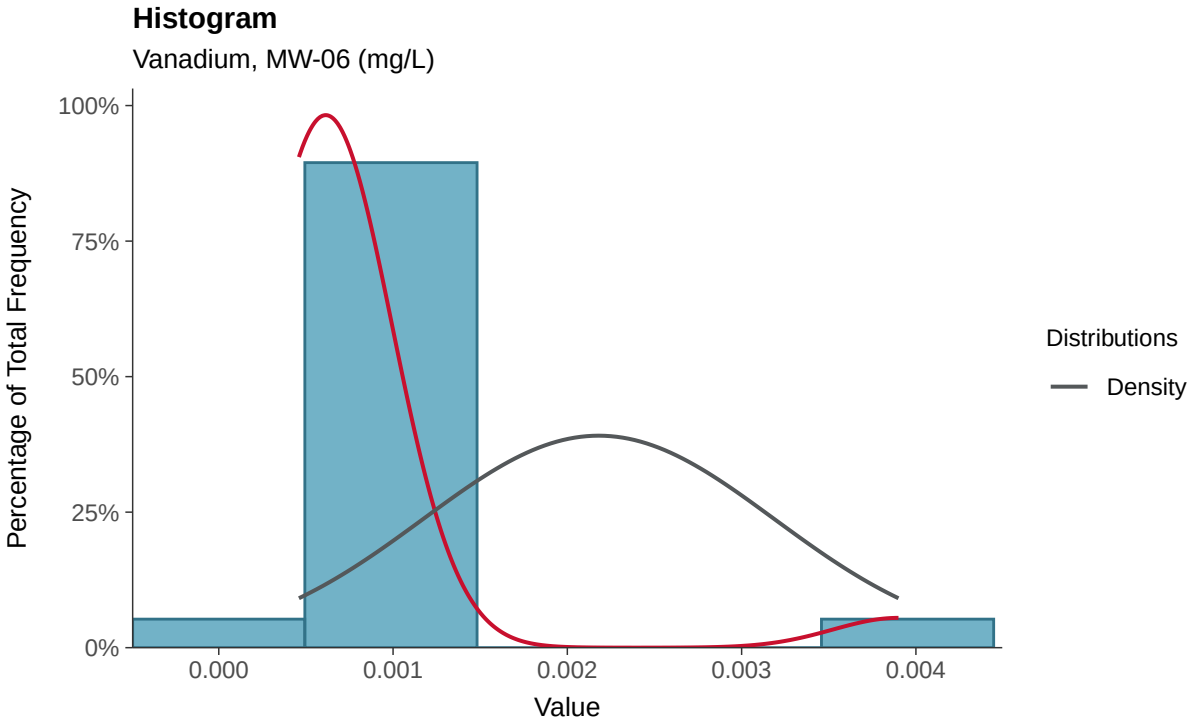
Silver, MW-06 (mg/L)



Part 115: Vanadium, MW-06

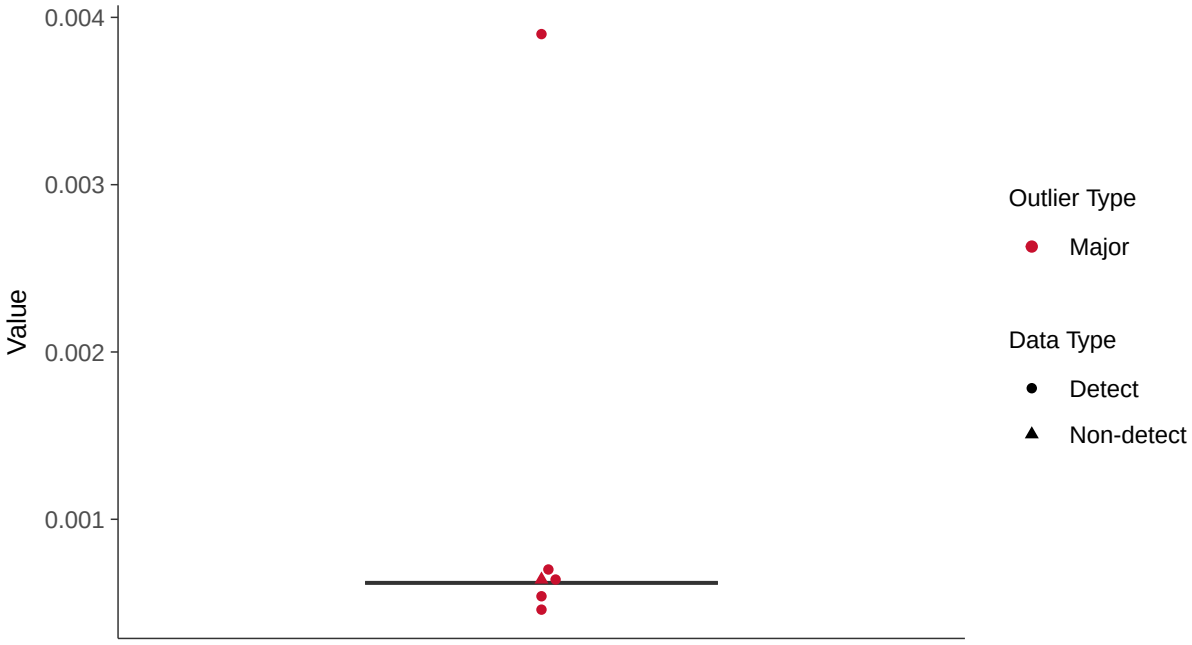
ID: 16_1_5_128





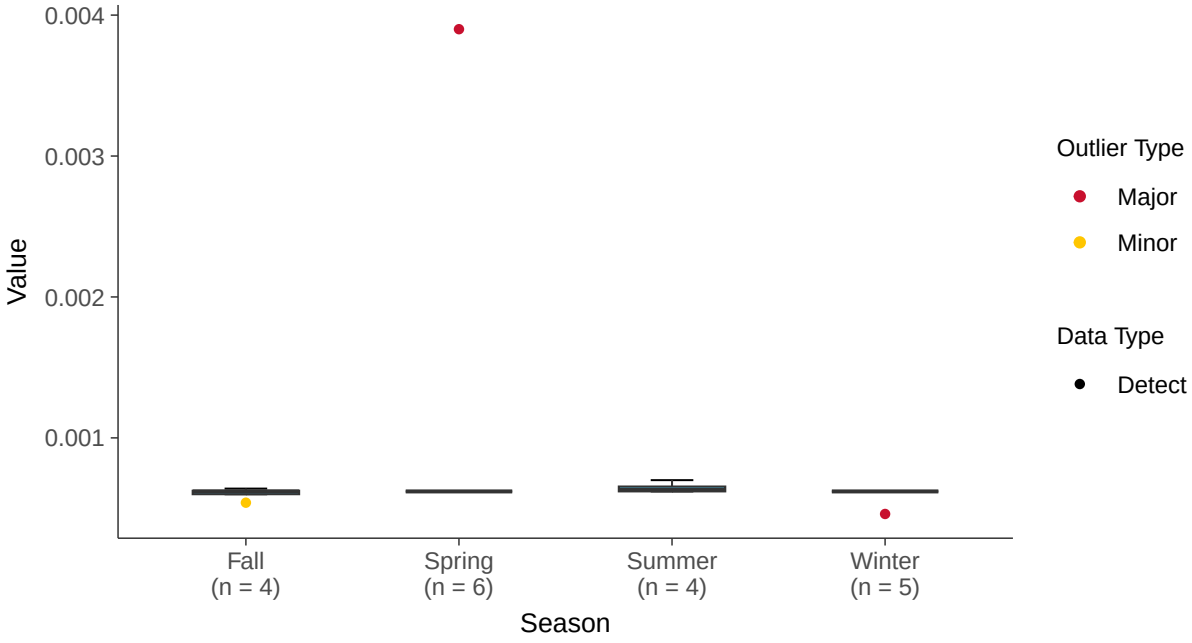
Boxplot

Vanadium, MW-06 (mg/L)



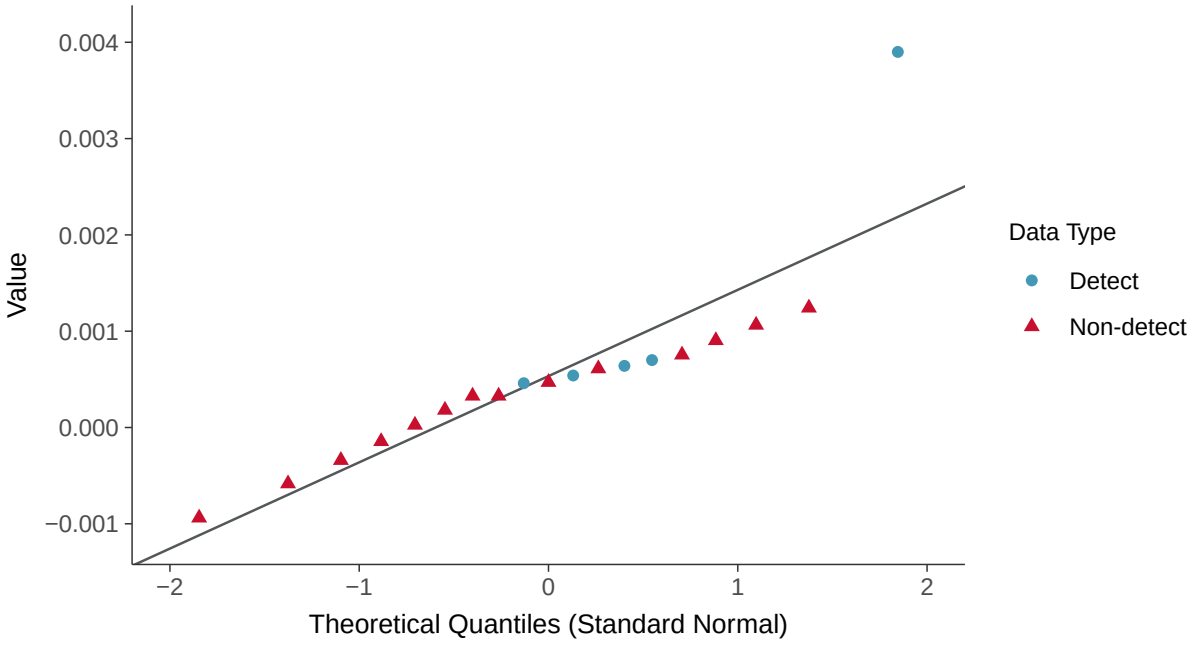
Boxplot by Season

Vanadium, MW-06 (mg/L)



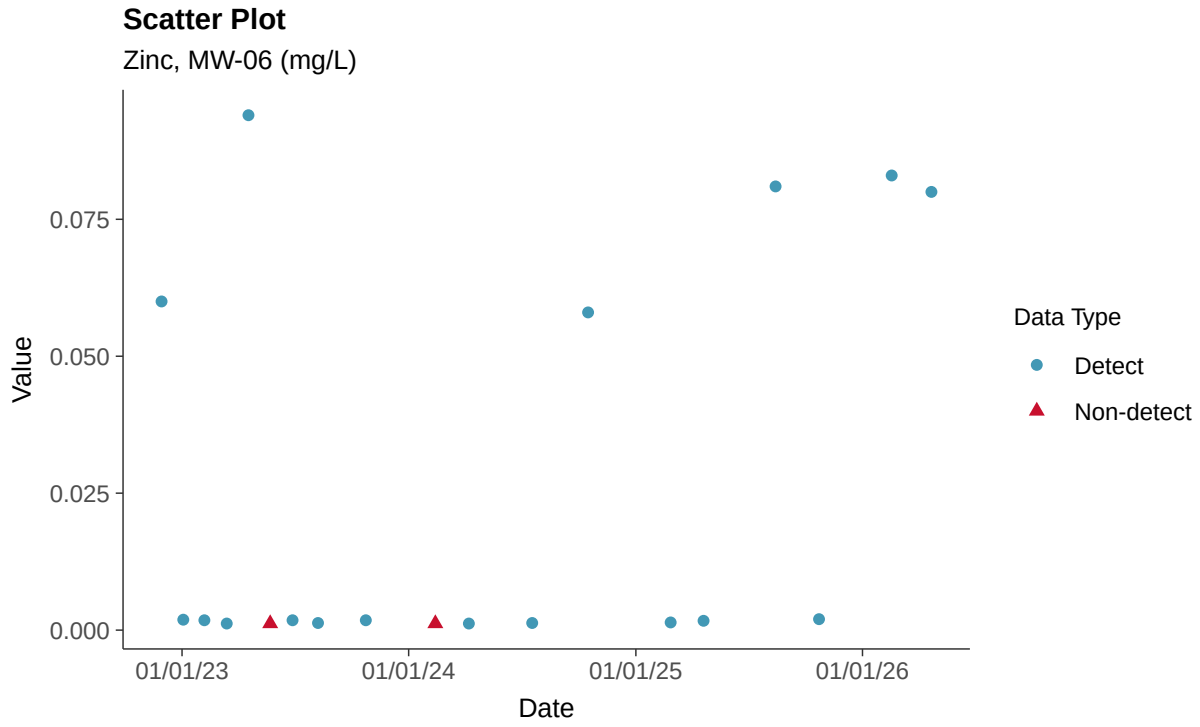
Normal Q-Q plot using ROS Imputed Estimates

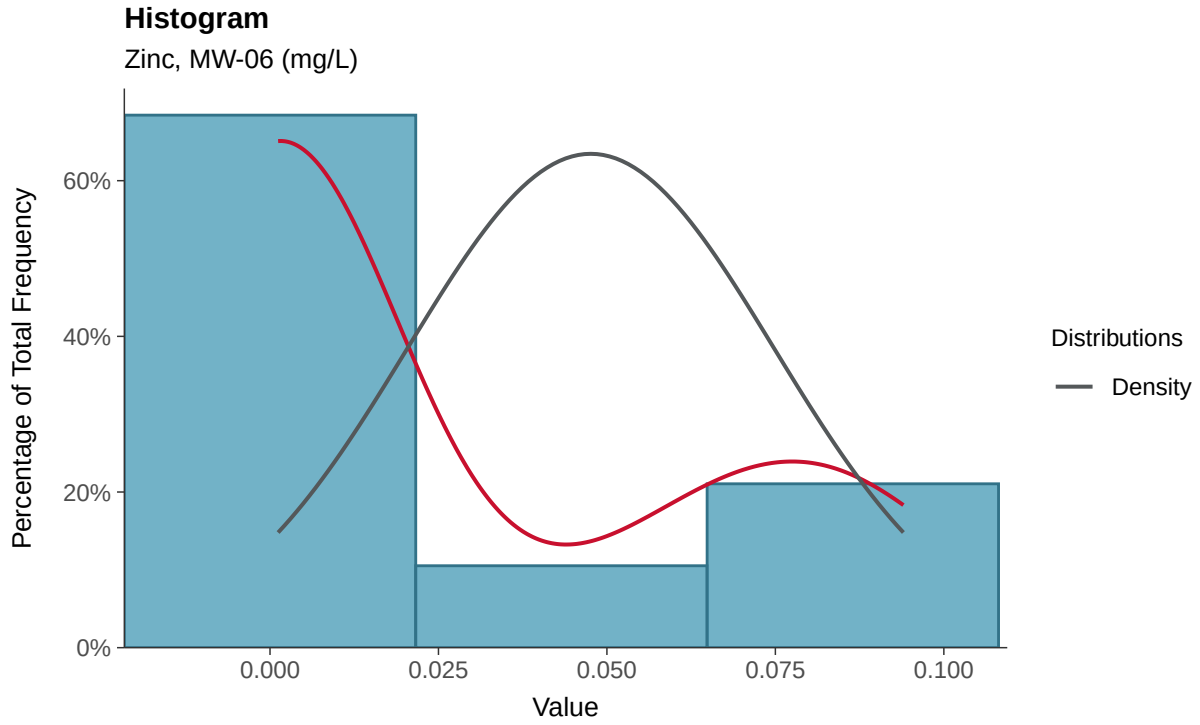
Vanadium, MW-06 (mg/L)



Part 115: Zinc, MW-06

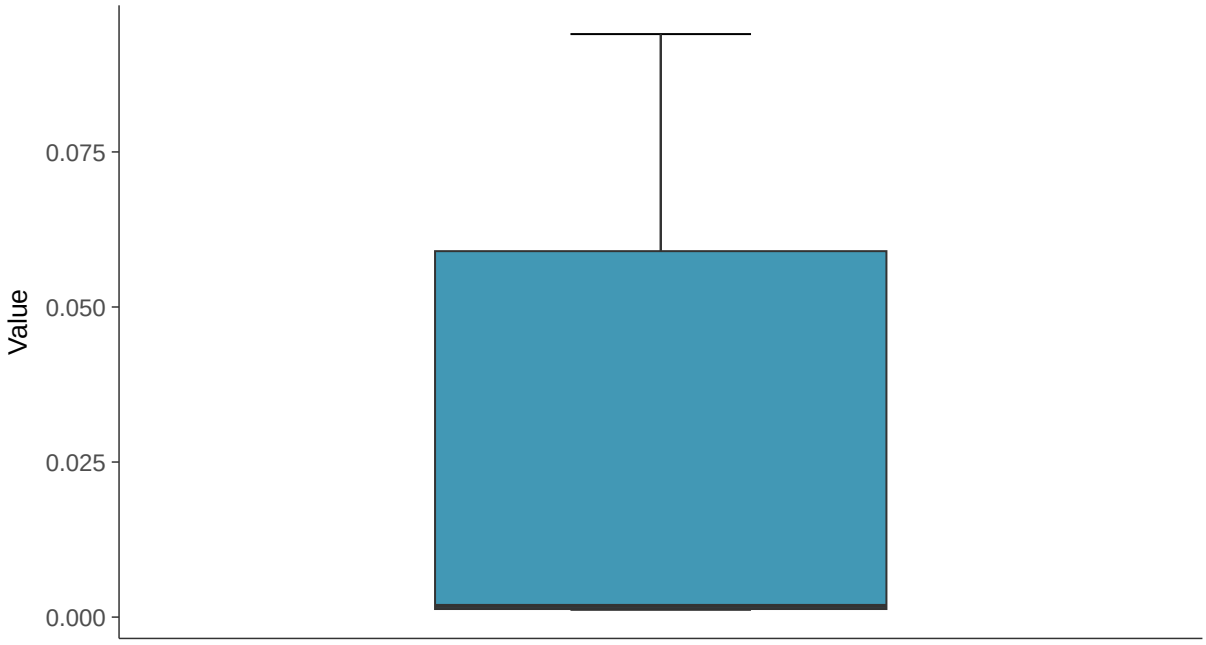
ID: 16_1_5_129





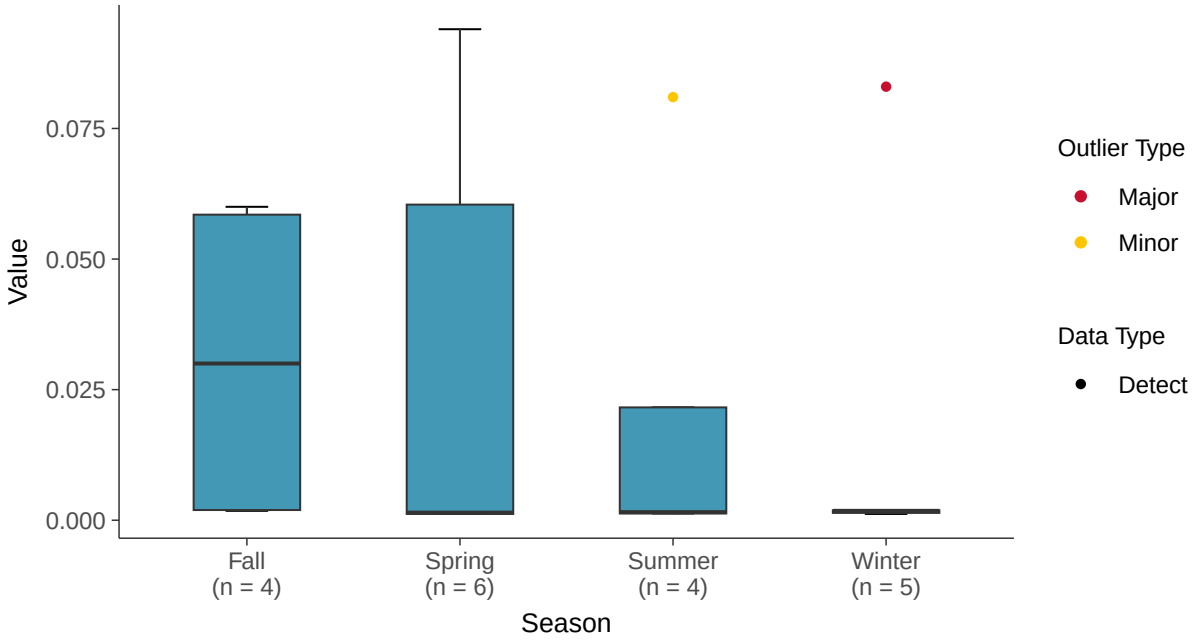
Boxplot

Zinc, MW-06 (mg/L)



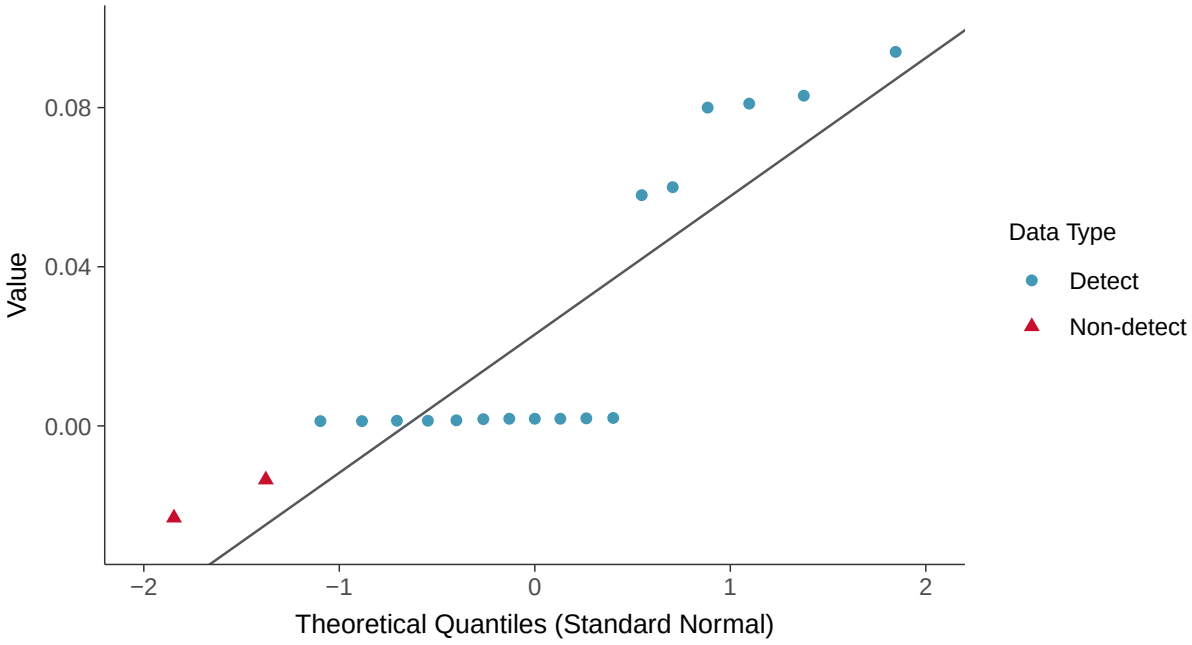
Boxplot by Season

Zinc, MW-06 (mg/L)



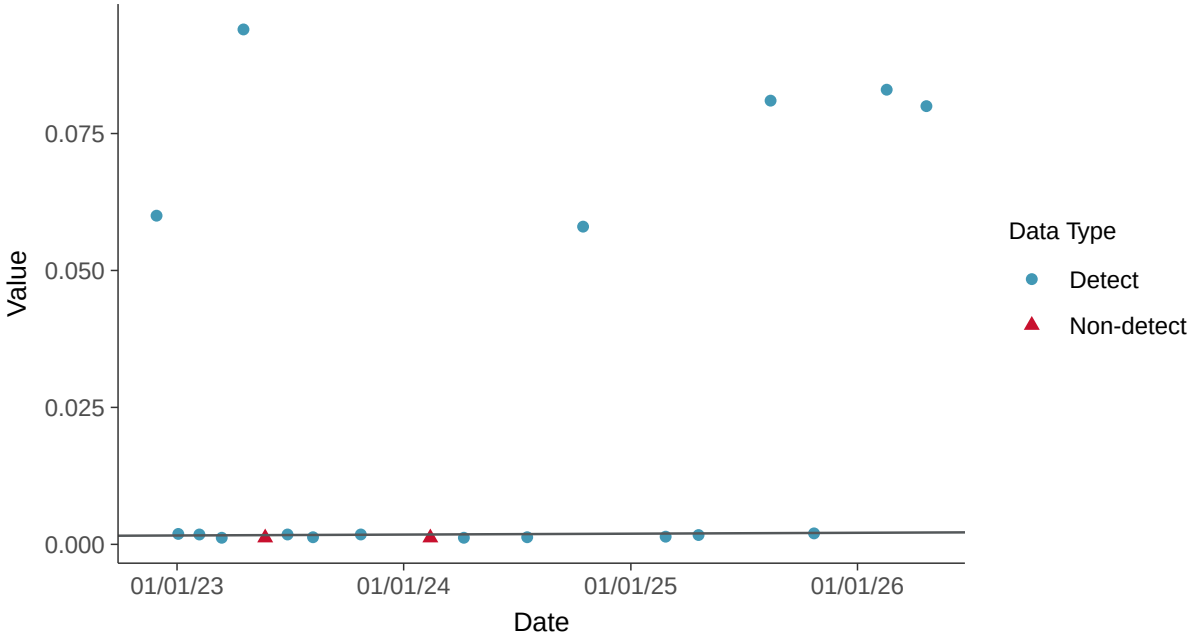
Normal Q-Q plot using ROS Imputed Estimates

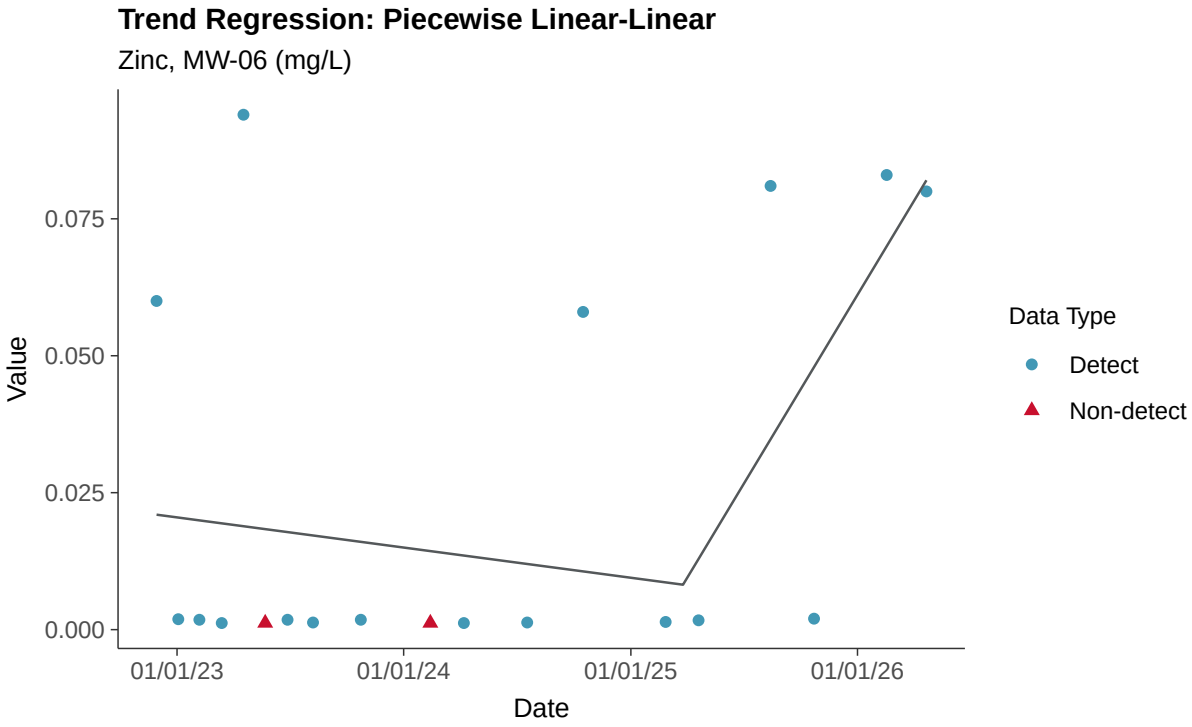
Zinc, MW-06 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

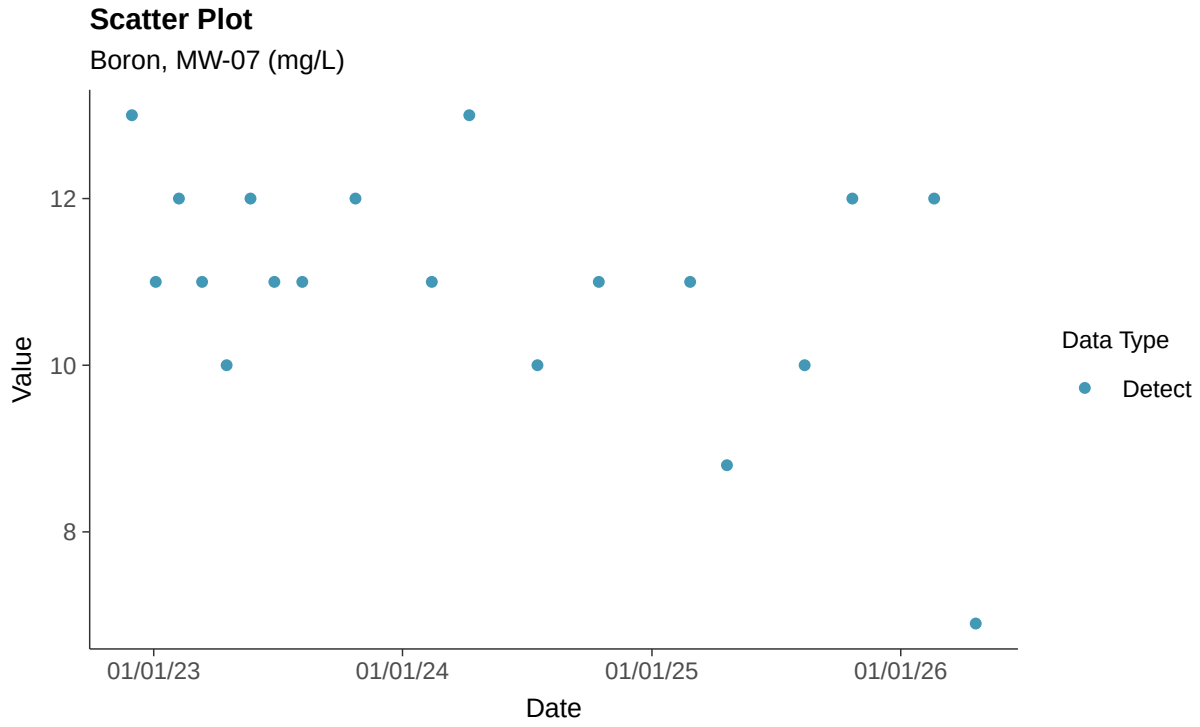
Zinc, MW-06 (mg/L)

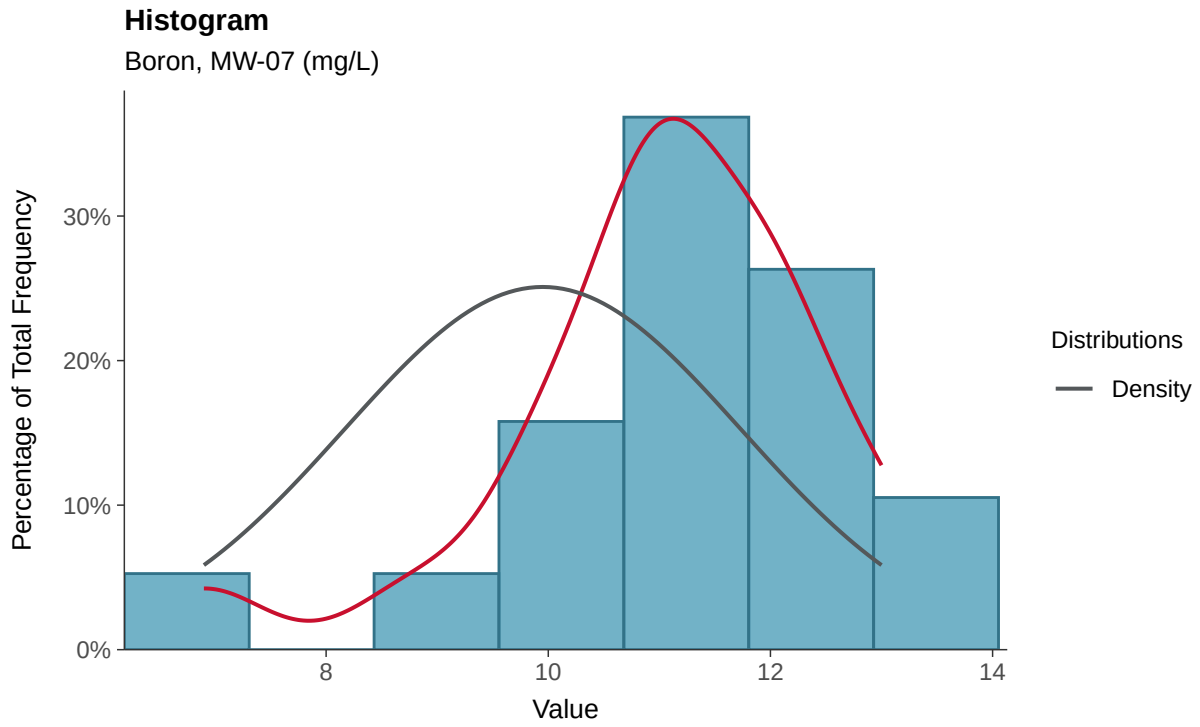



Trend Regression: Piecewise Linear-Linear
Zinc, MW-06 (mg/L)
Value
0.075
0.050
0.025
0.000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix III: Boron, MW-07

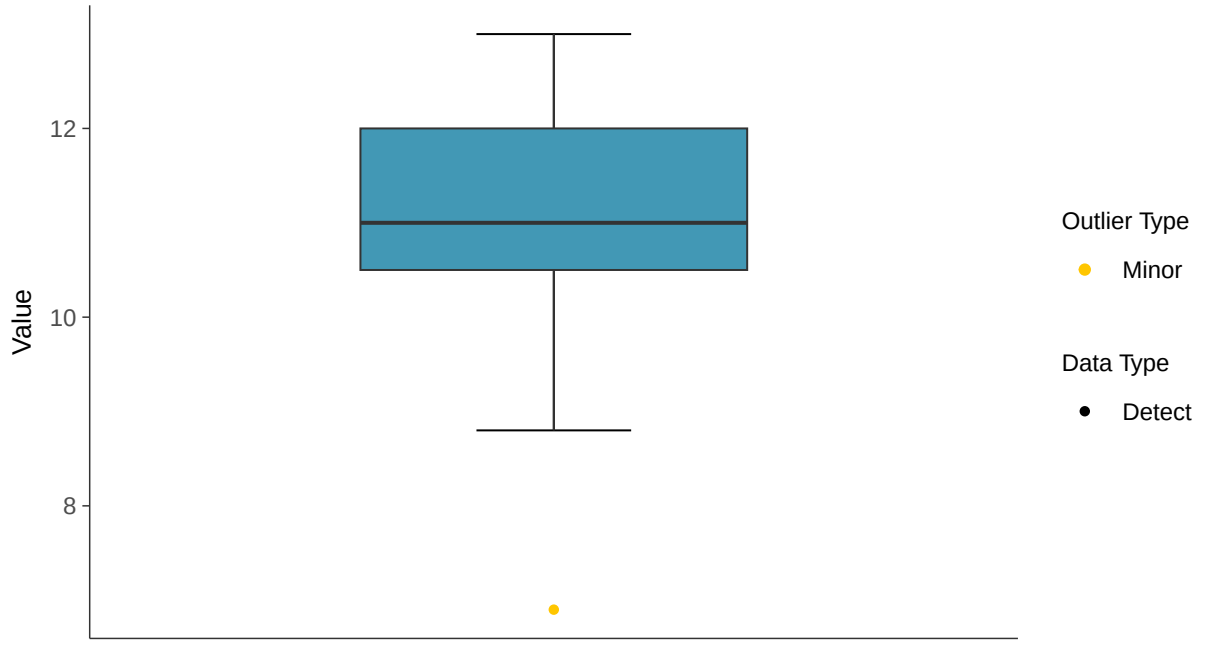
ID: 17_1_3_105





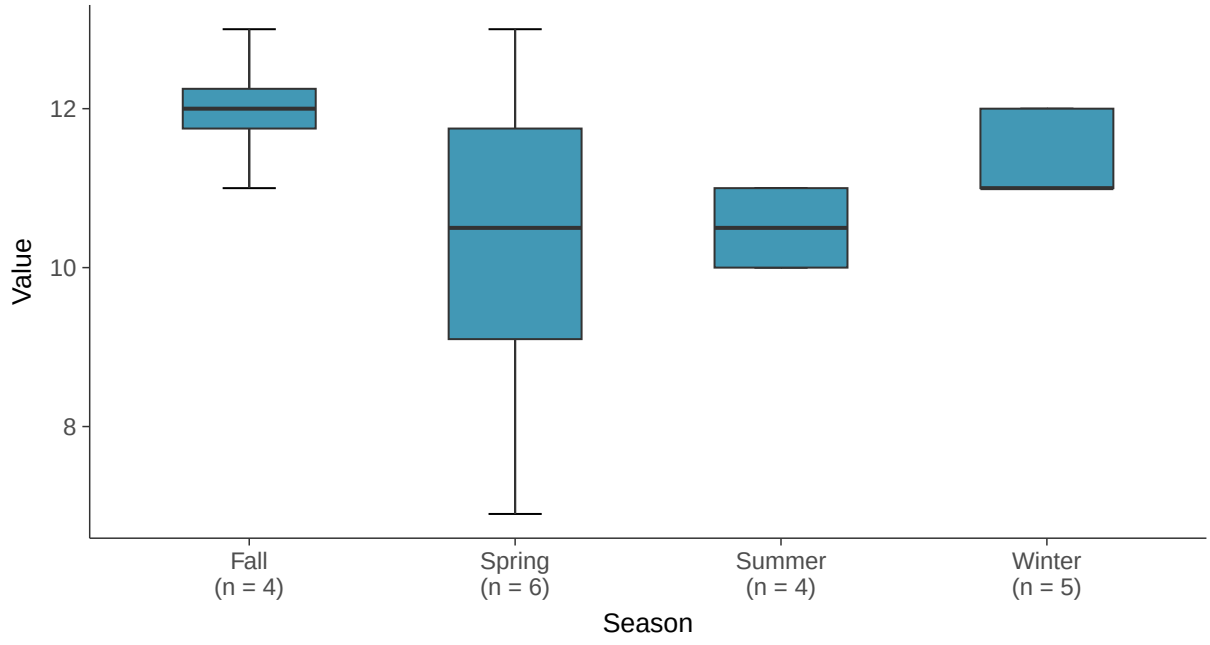
Boxplot

Boron, MW-07 (mg/L)



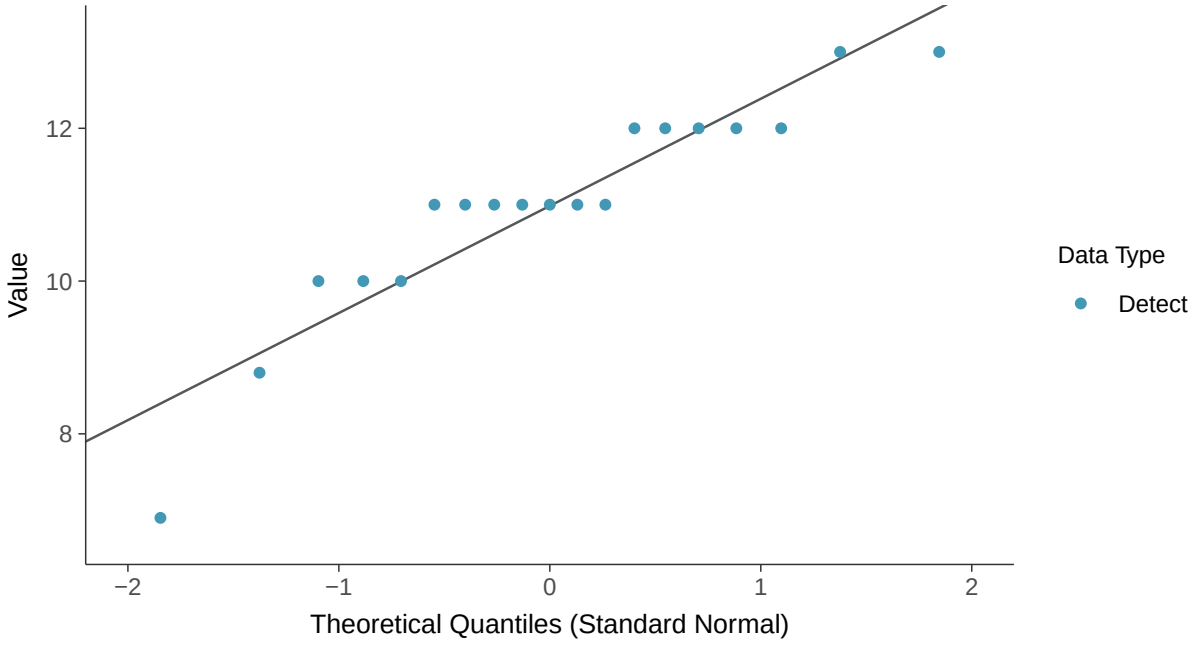
Boxplot by Season

Boron, MW-07 (mg/L)



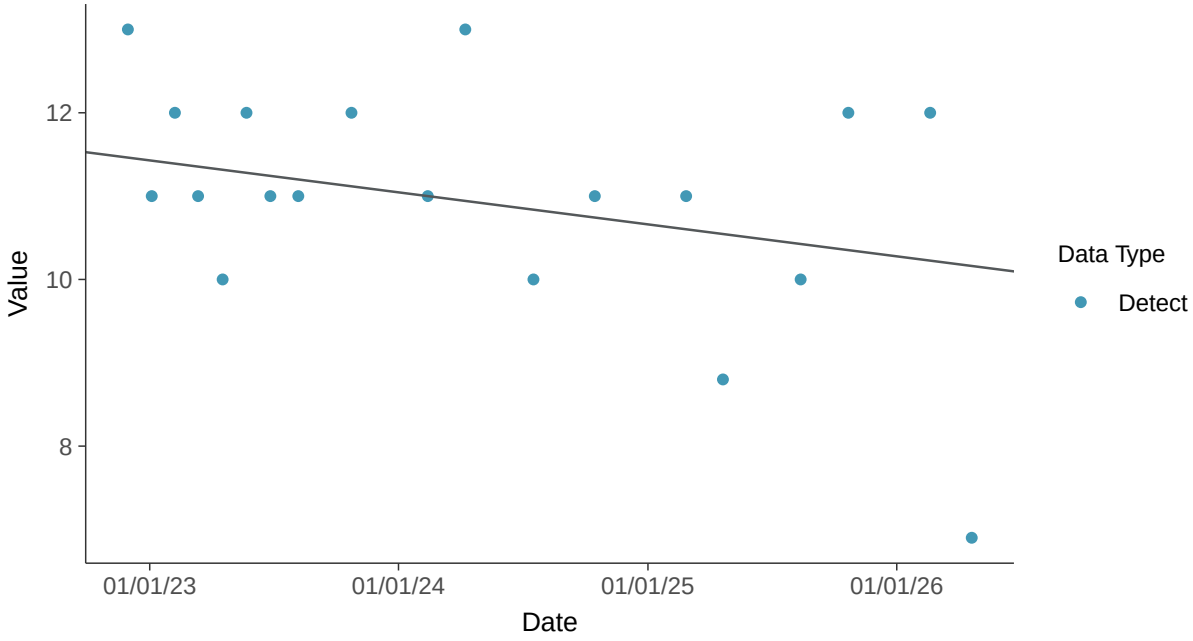
Normal Q-Q plot

Boron, MW-07 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Boron, MW-07 (mg/L)

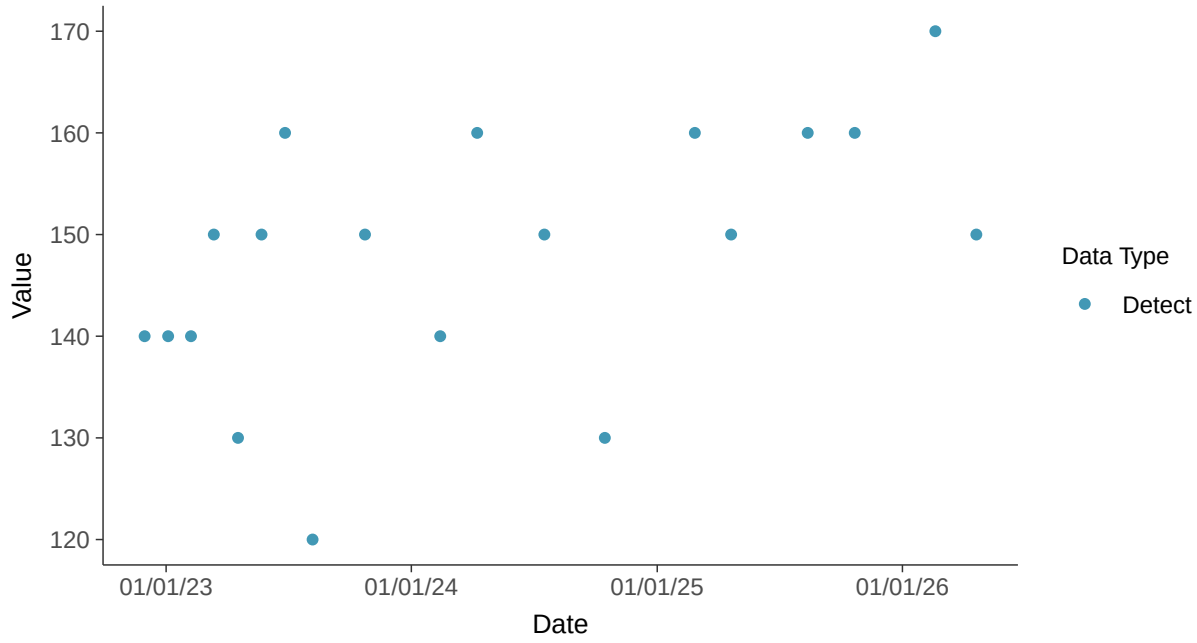


Appendix III: Calcium, MW-07

ID: 17_1_3_107

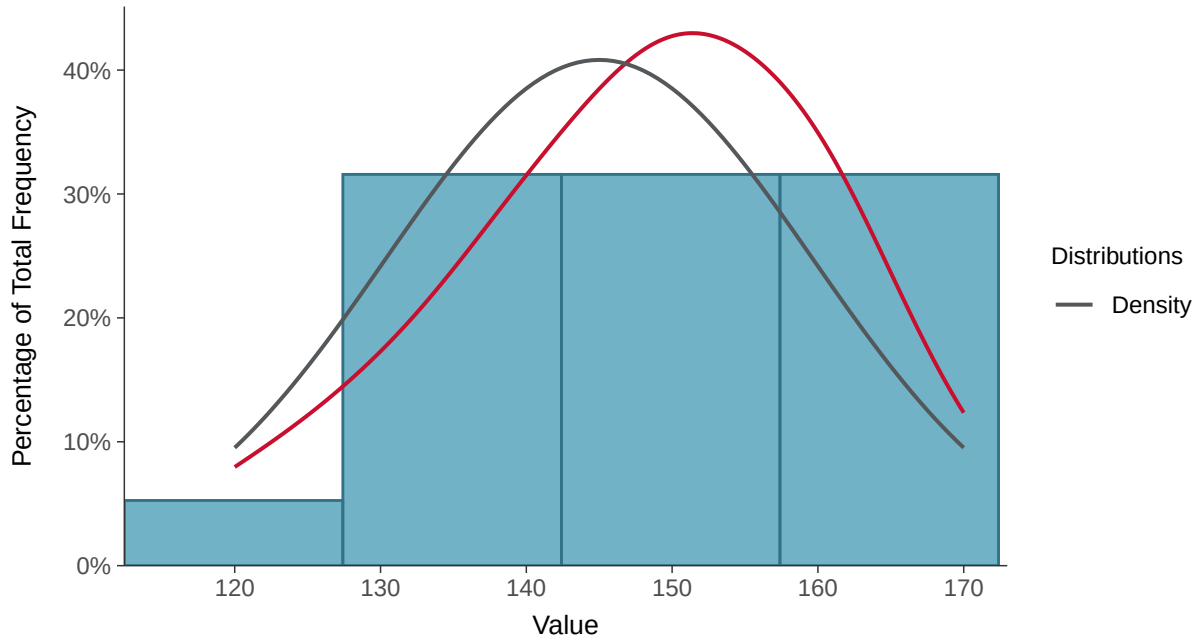
Scatter Plot

Calcium, MW-07 (mg/L)



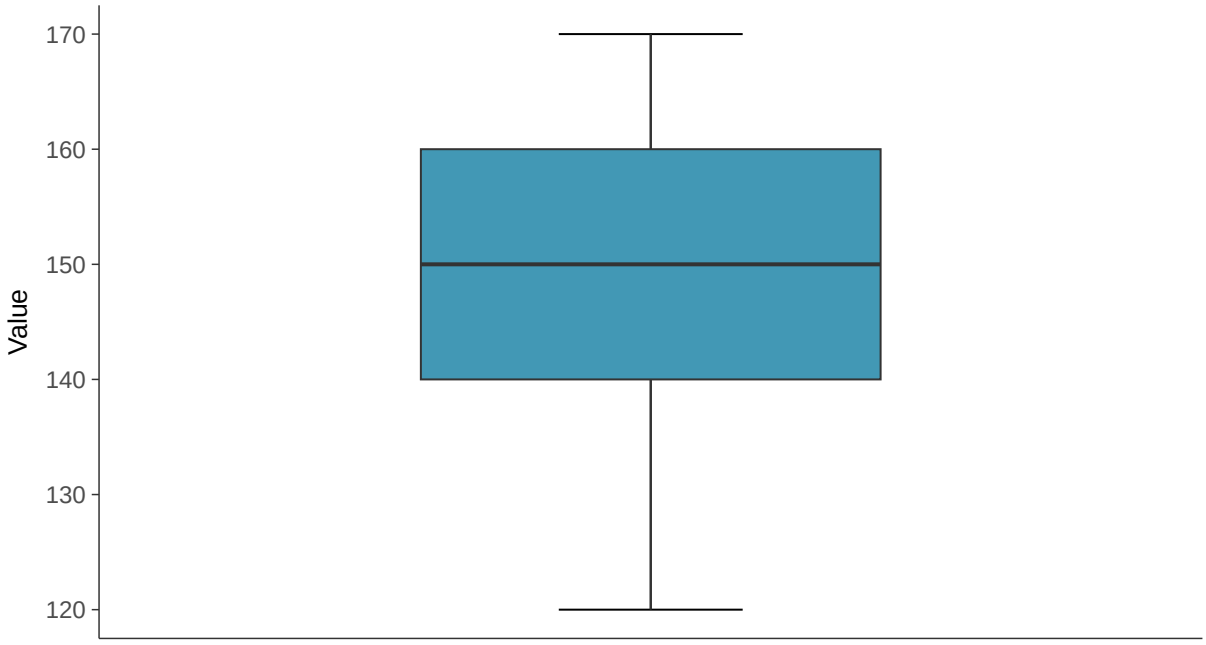
Histogram

Calcium, MW-07 (mg/L)



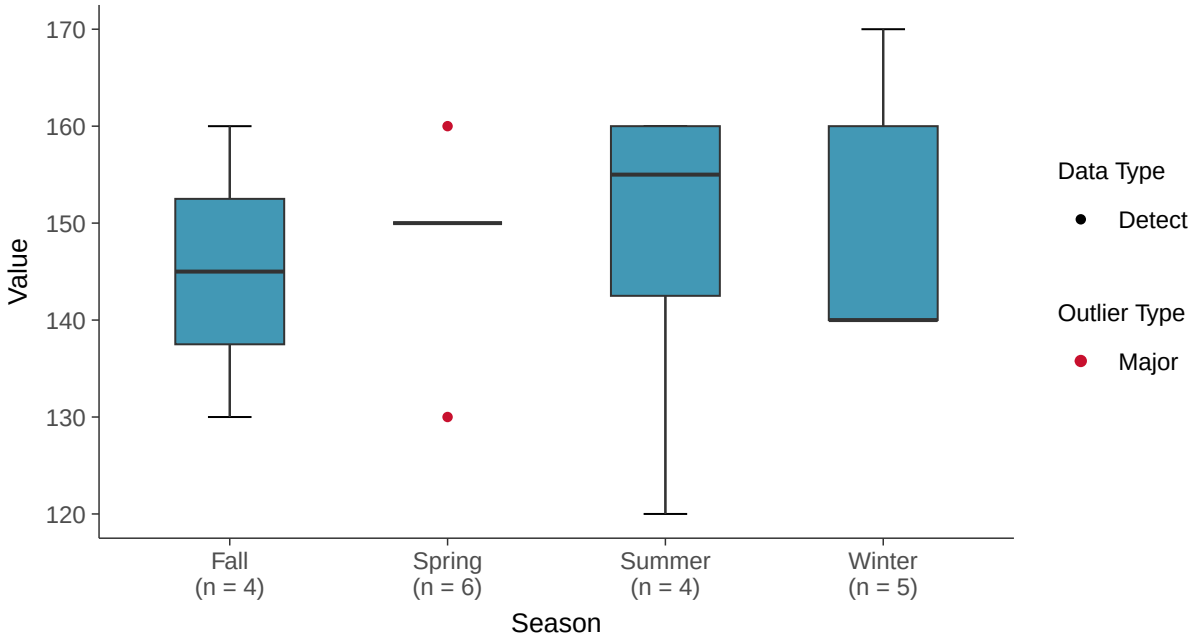
Boxplot

Calcium, MW-07 (mg/L)



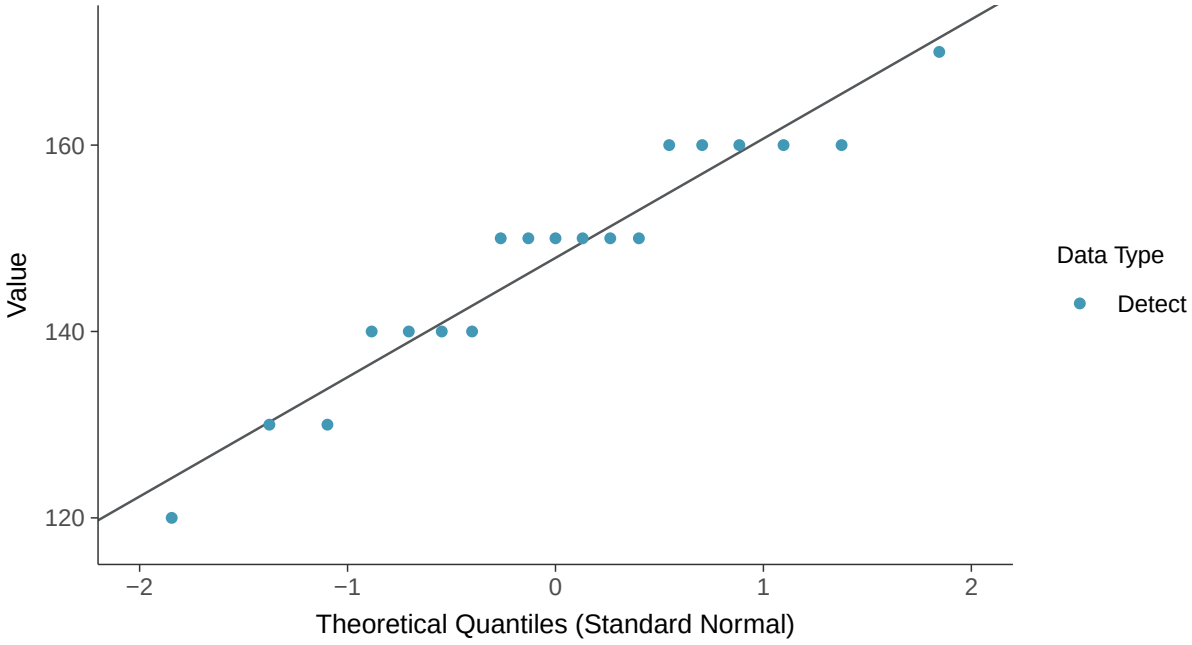
Boxplot by Season

Calcium, MW-07 (mg/L)



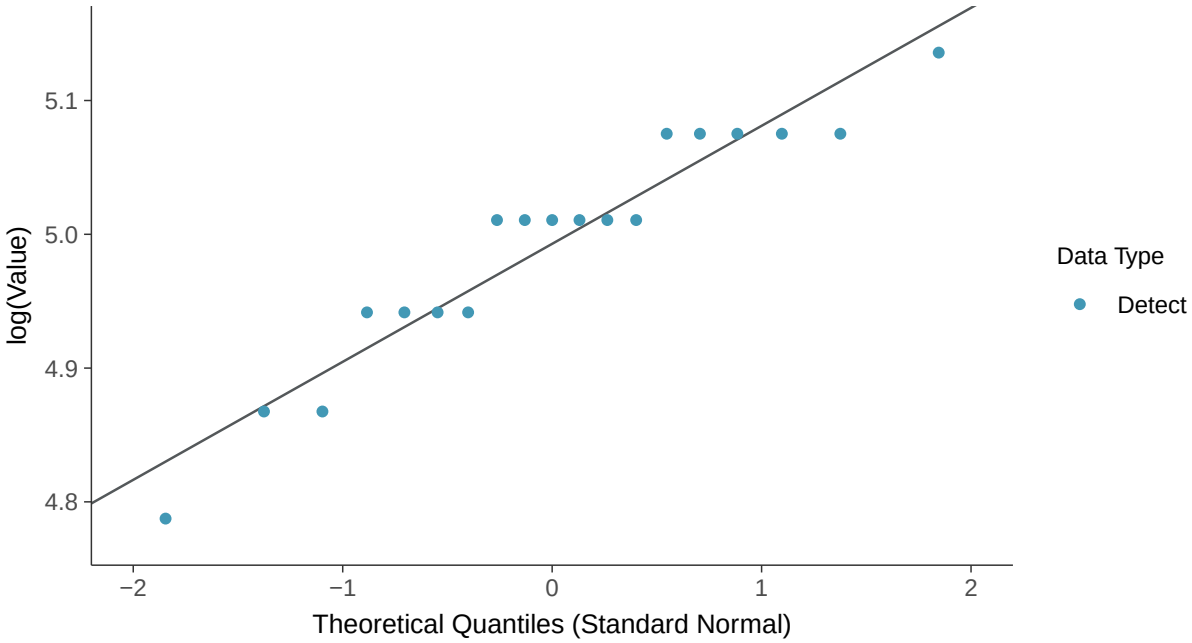
Normal Q-Q plot

Calcium, MW-07 (mg/L)



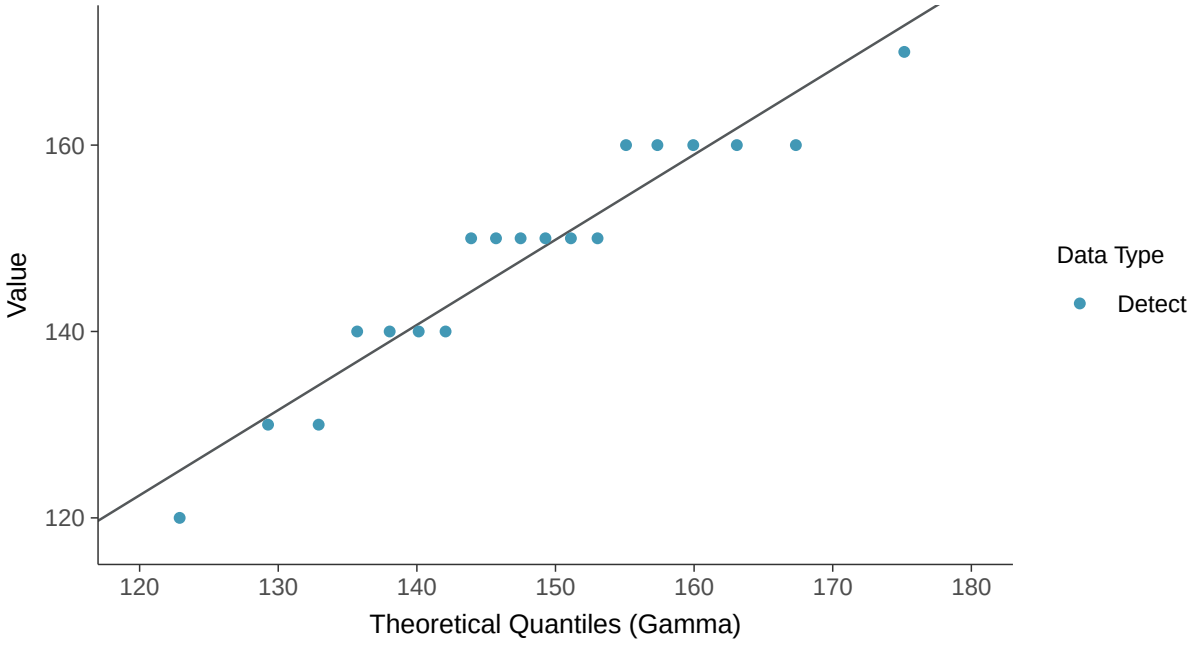
Lognormal Q-Q plot

Calcium, MW-07 (mg/L)



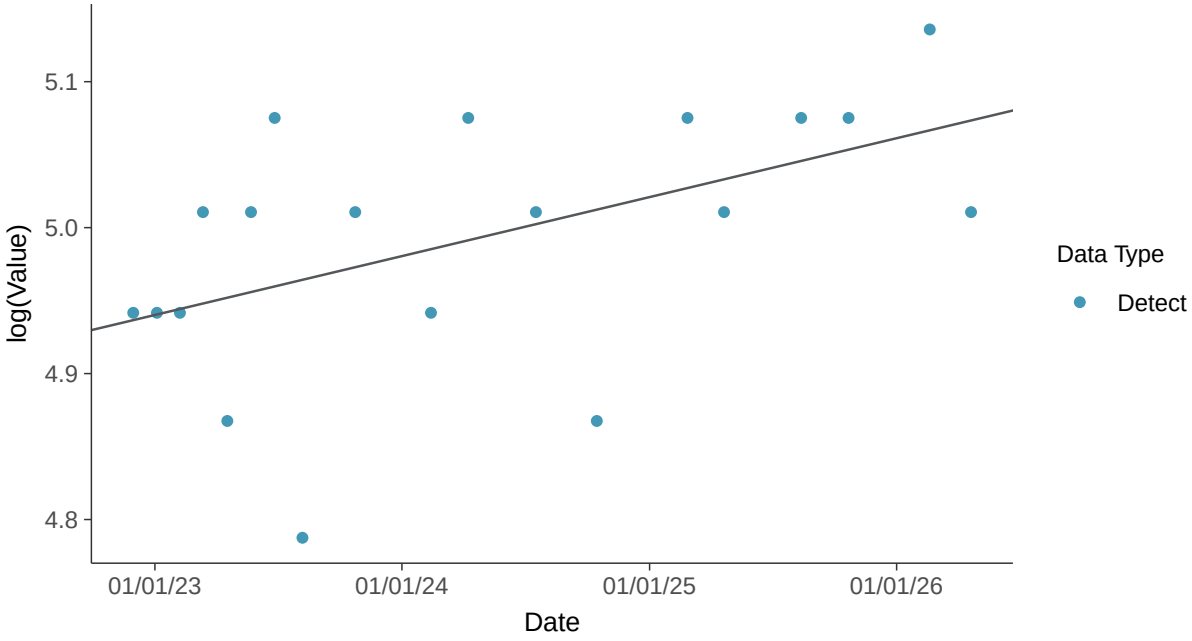
Gamma Q-Q plot

Calcium, MW-07 (mg/L)



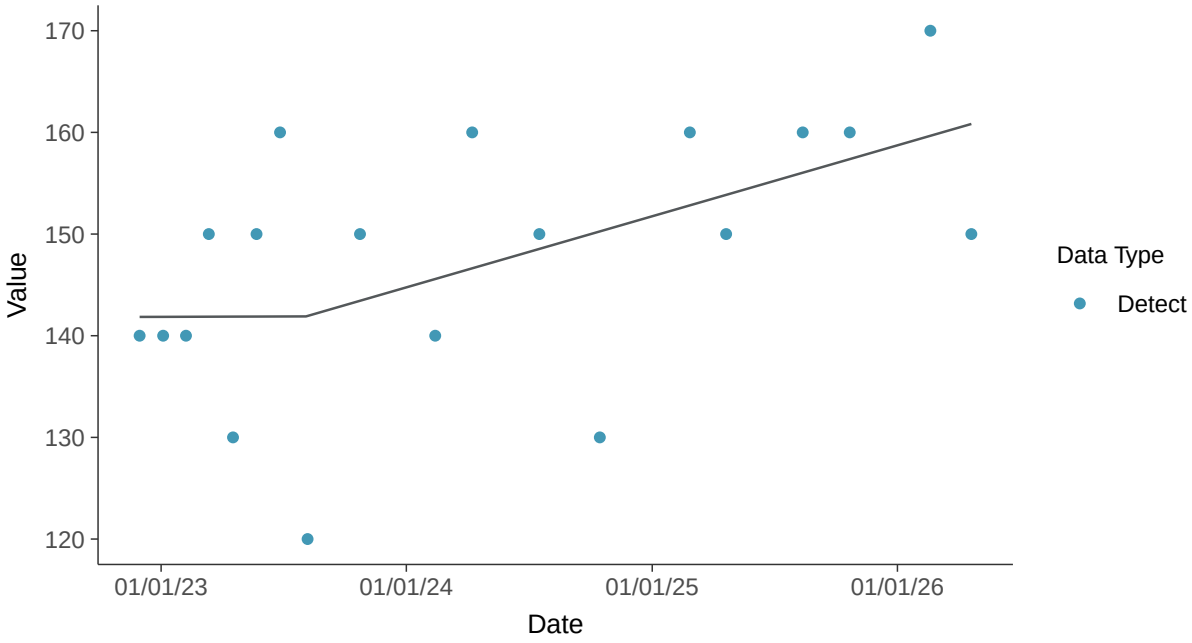
Trend Regression: Lognormal MLE

Calcium, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-07 (mg/L)

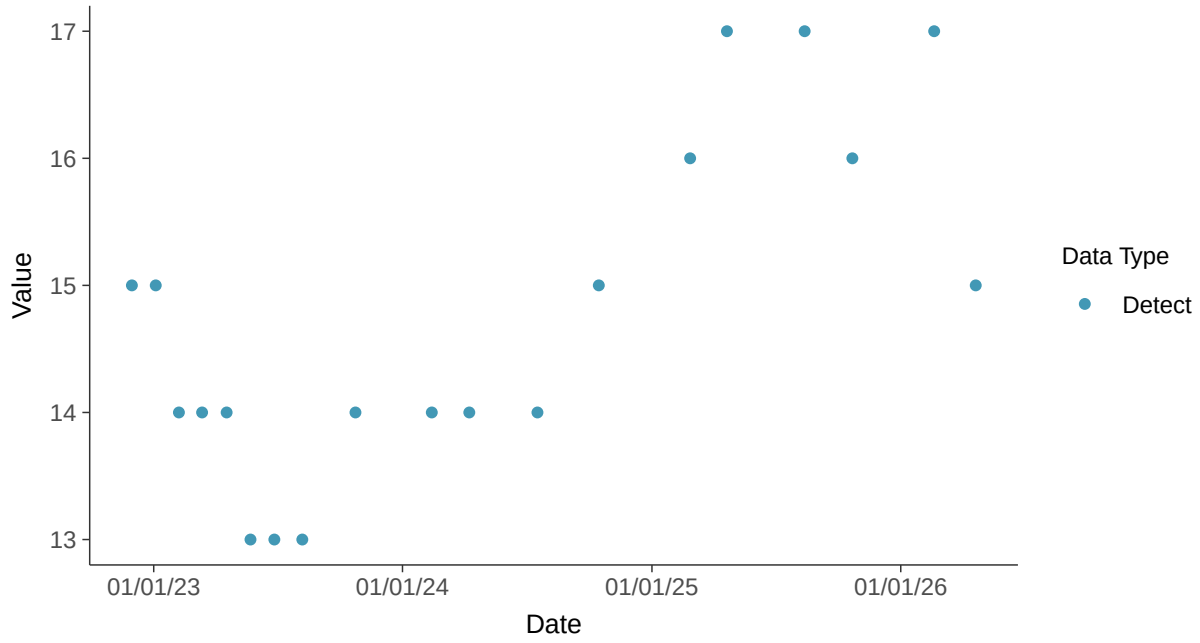


Appendix III: Chloride (as Cl), MW-07

ID: 17_1_3_108

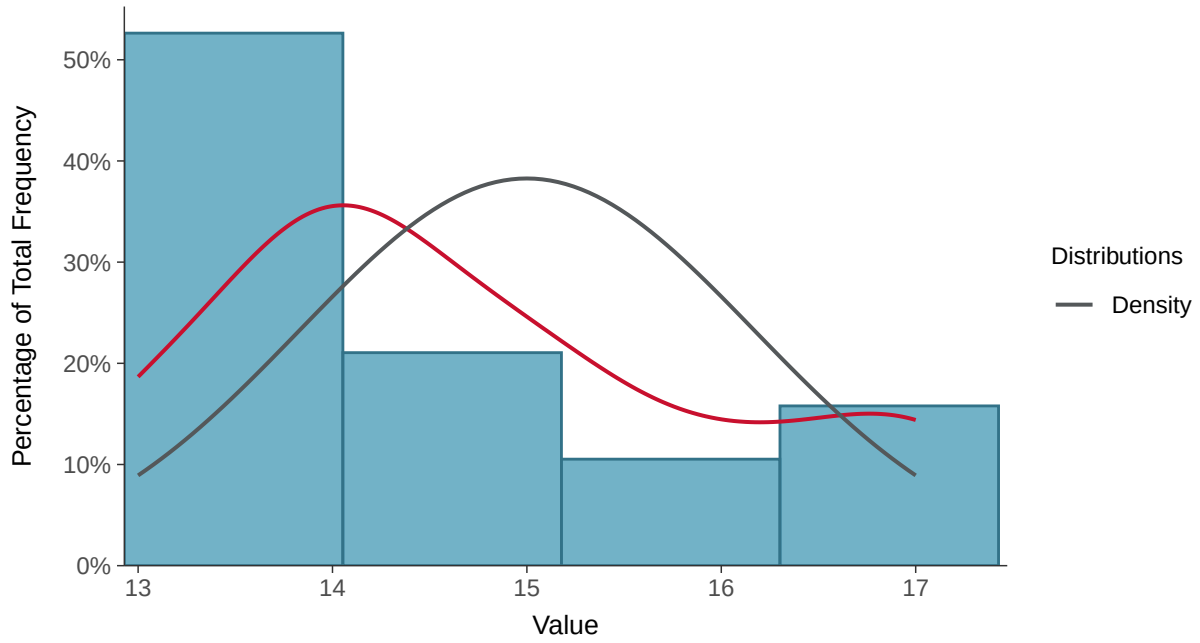
Scatter Plot

Chloride (as Cl), MW-07 (mg/L)



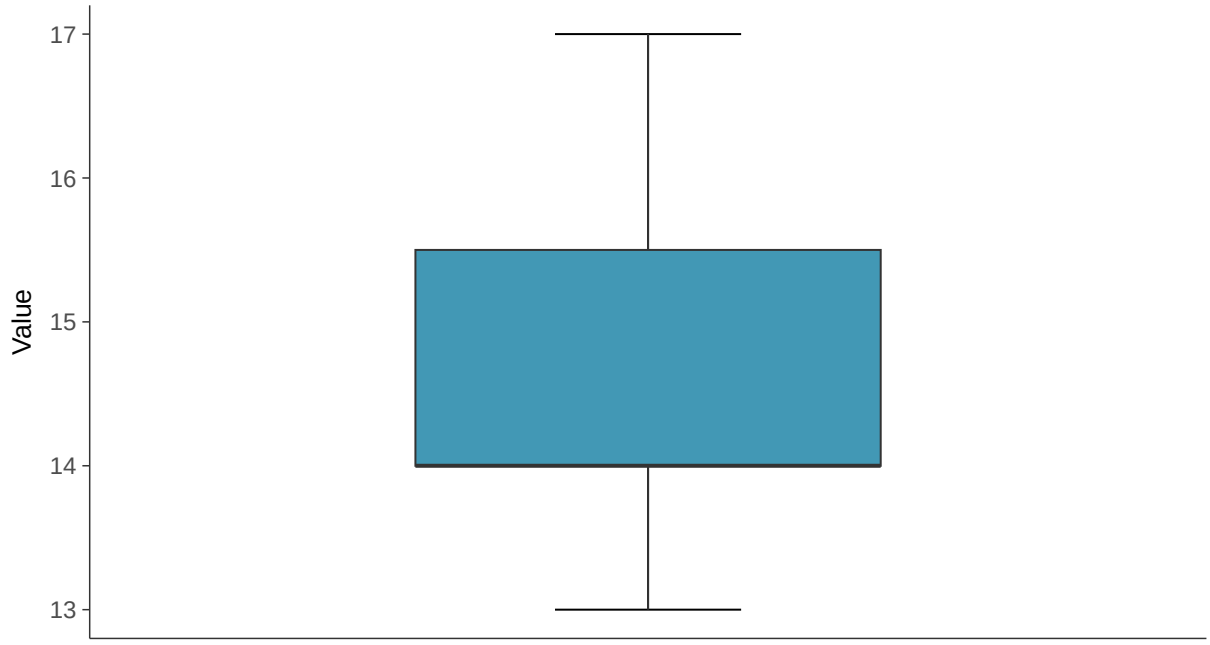
Histogram

Chloride (as Cl), MW-07 (mg/L)



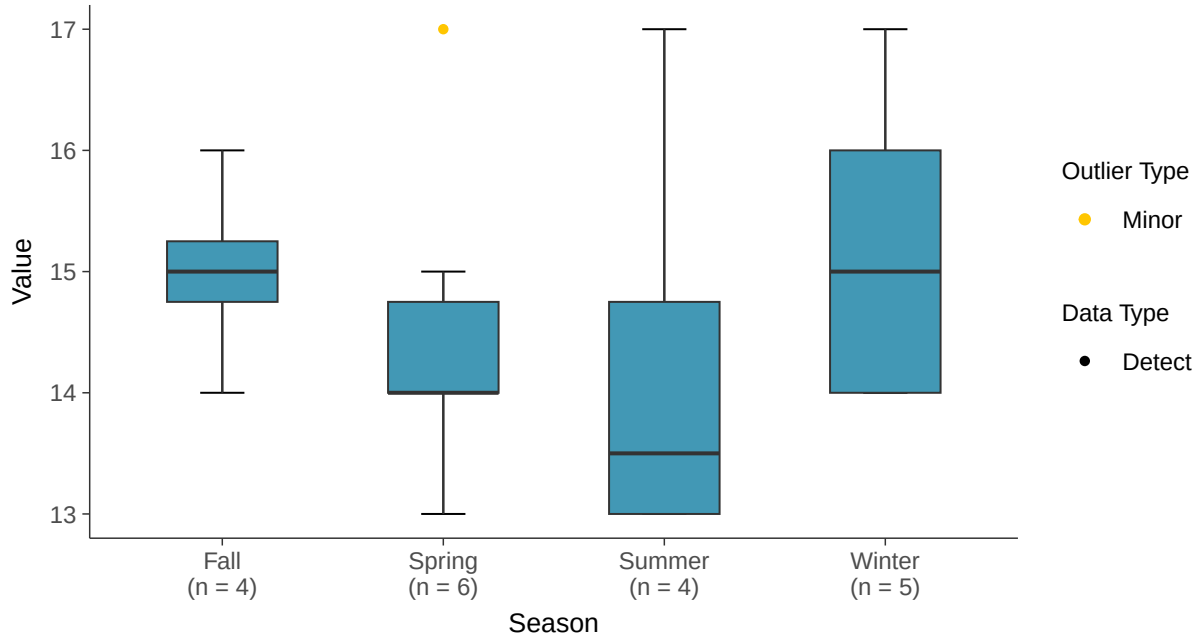
Boxplot

Chloride (as Cl), MW-07 (mg/L)



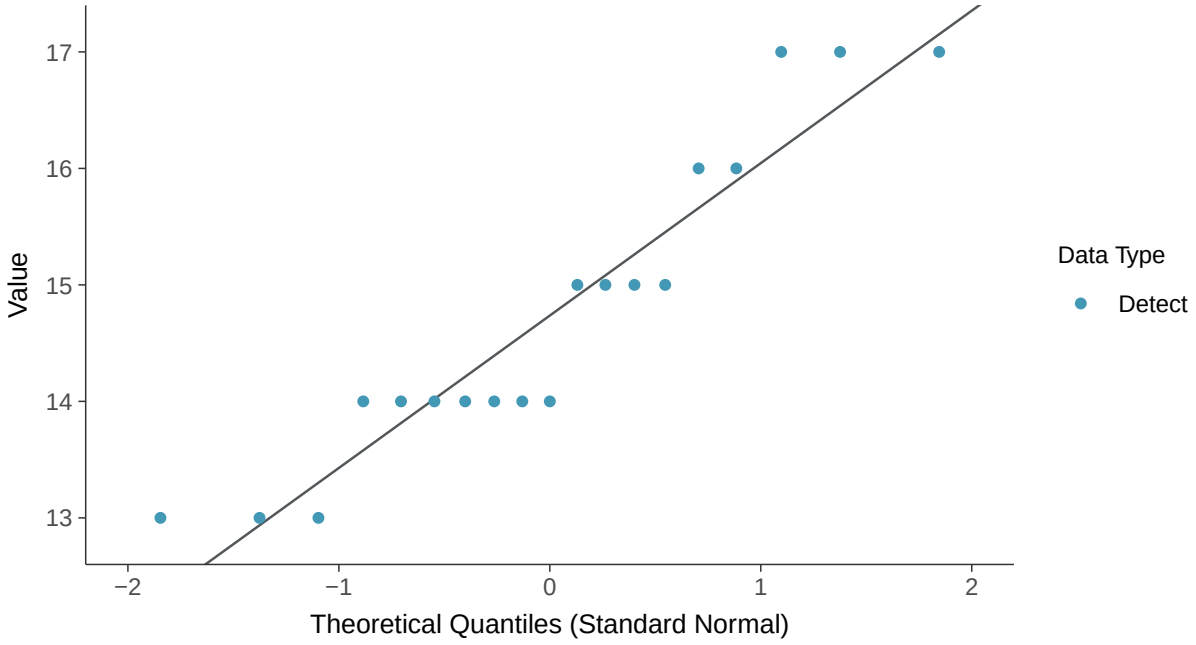
Boxplot by Season

Chloride (as Cl), MW-07 (mg/L)



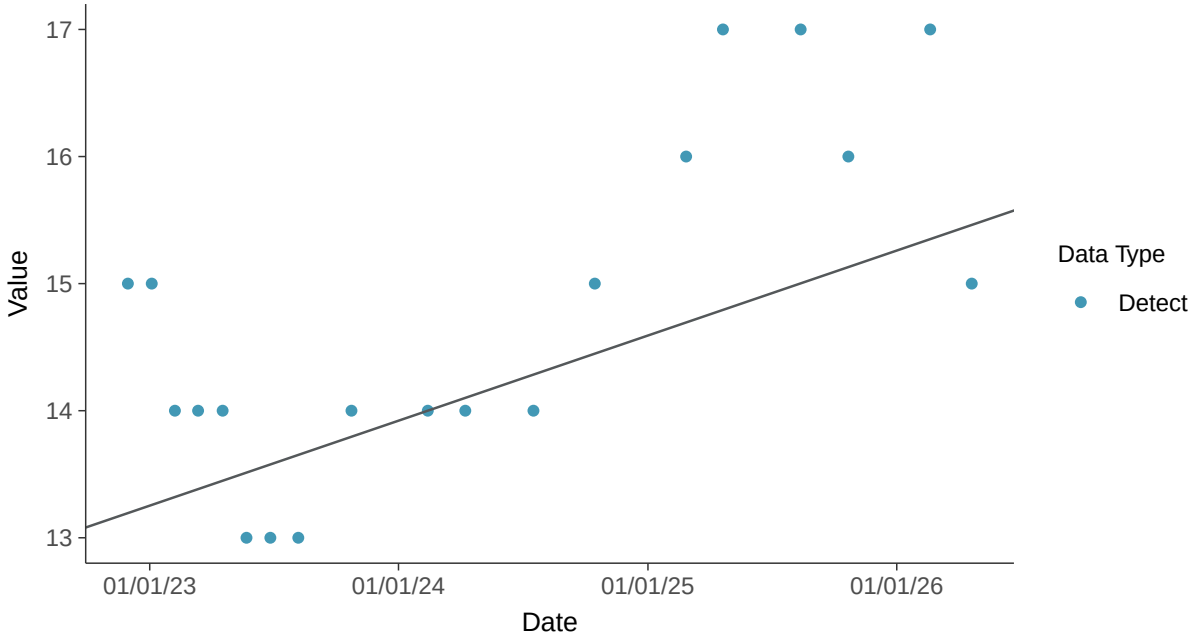
Normal Q-Q plot

Chloride (as Cl), MW-07 (mg/L)



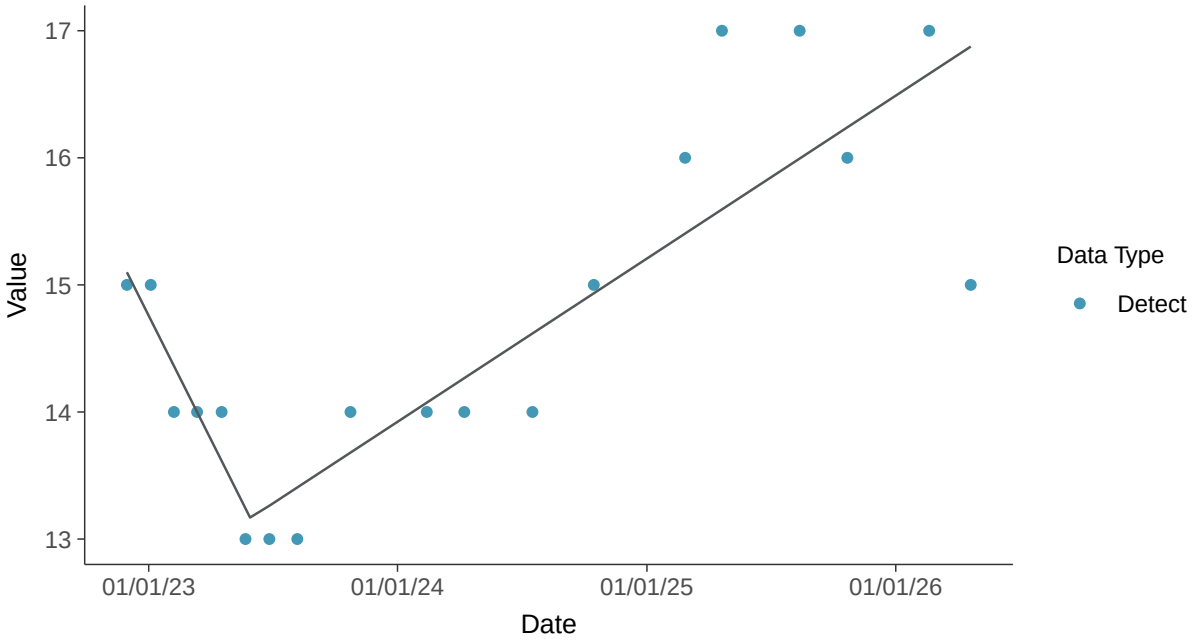
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-07 (mg/L)



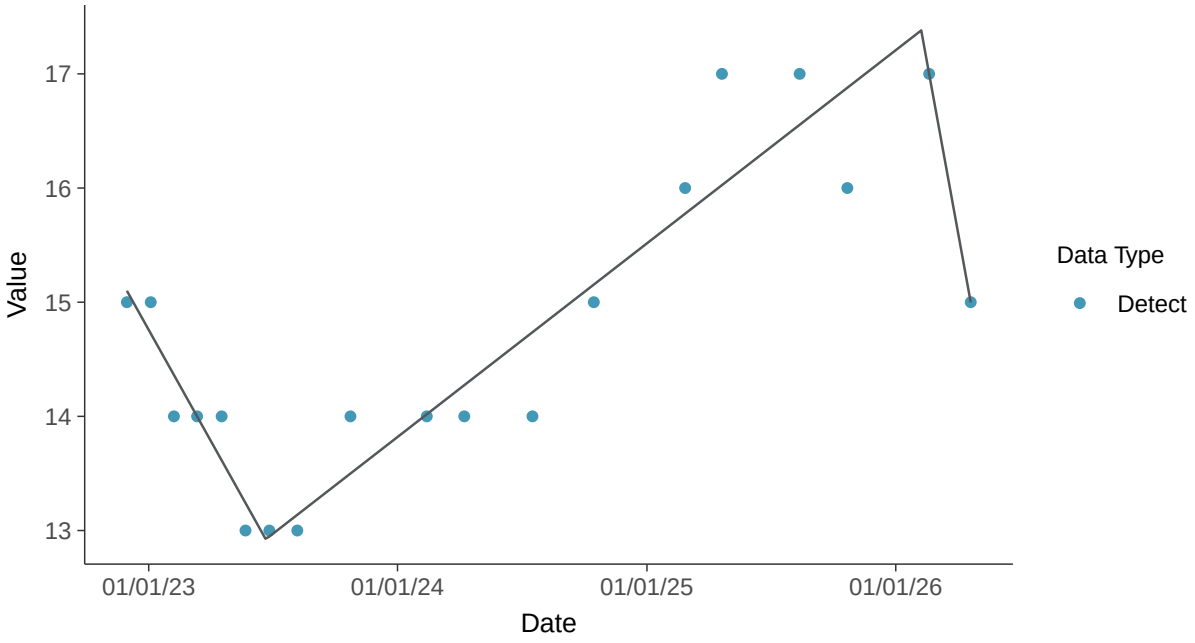
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-07 (mg/L)



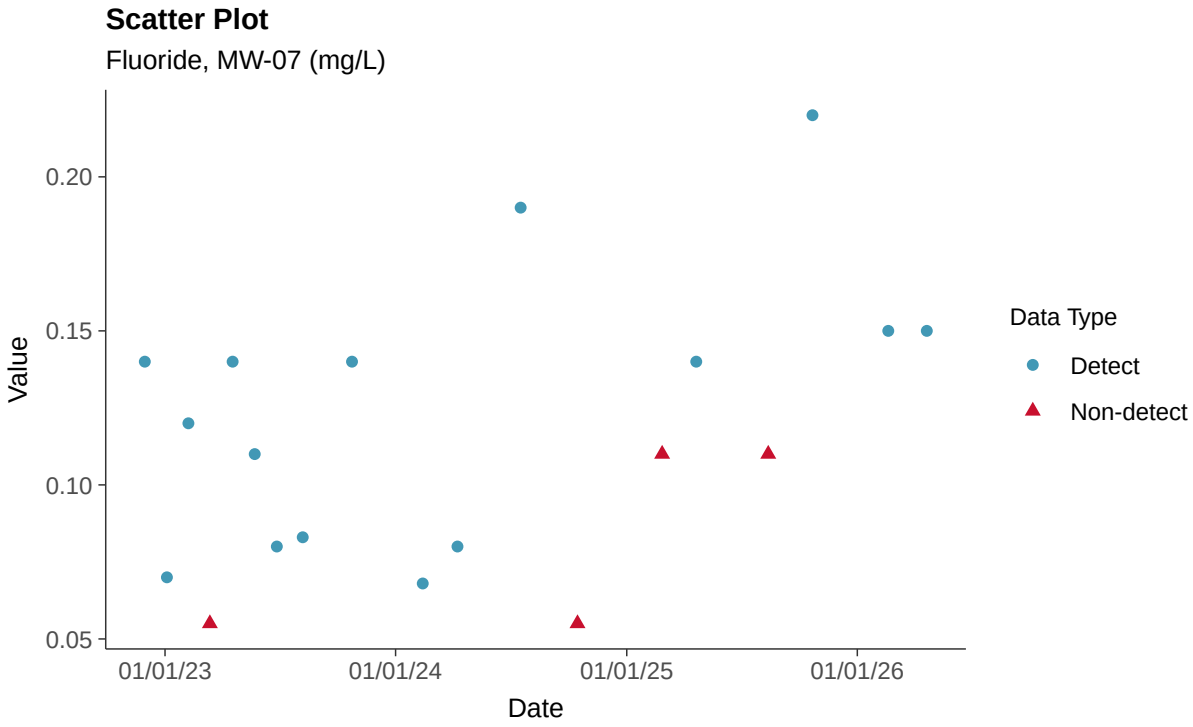
Trend Regression: Piecewise Linear-Linear-Linear

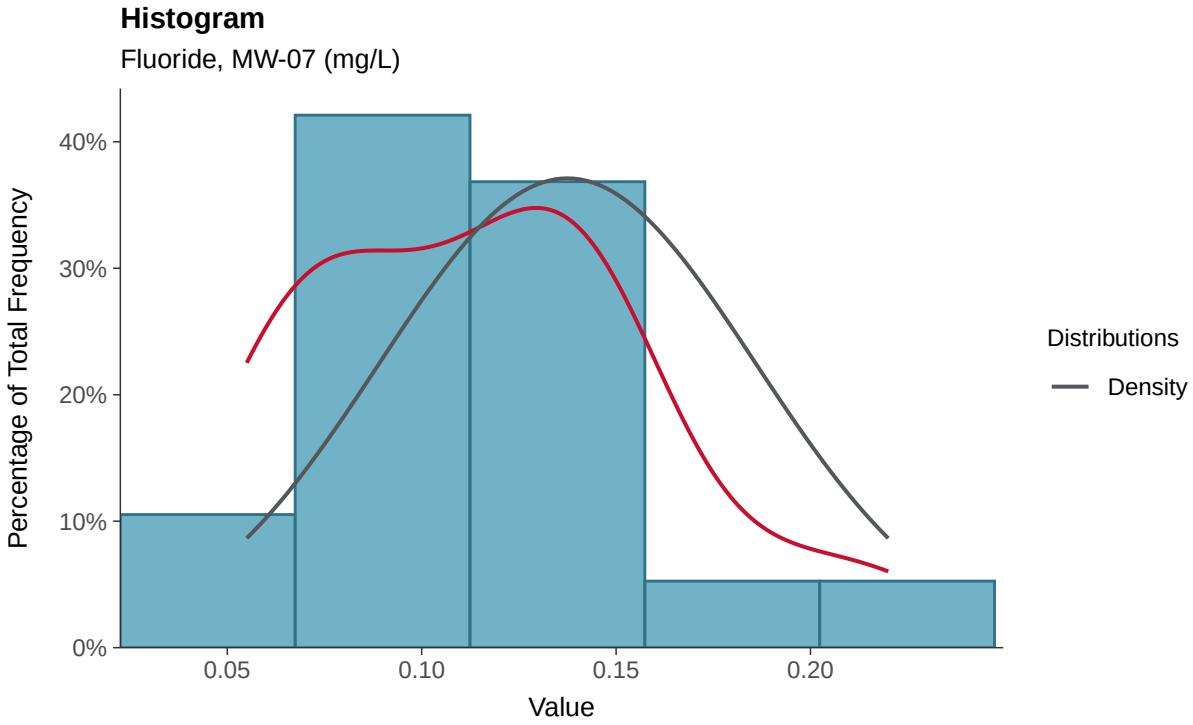
Chloride (as Cl), MW-07 (mg/L)



Appendix III: Fluoride, MW-07

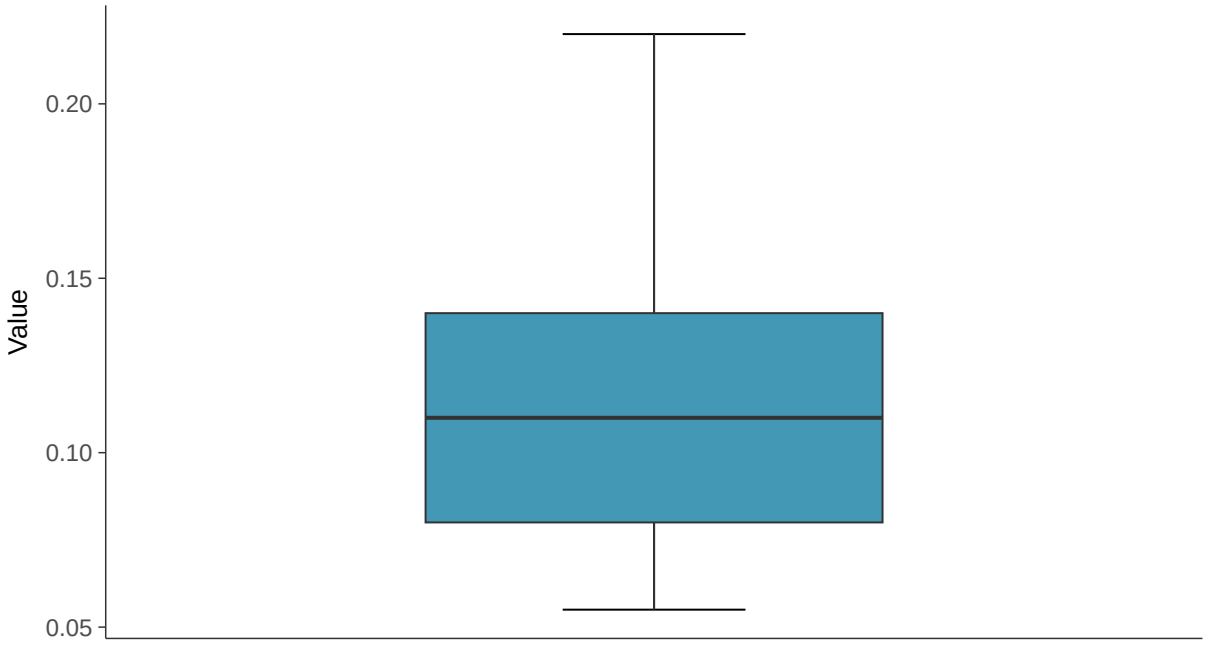
ID: 17_1_3_112





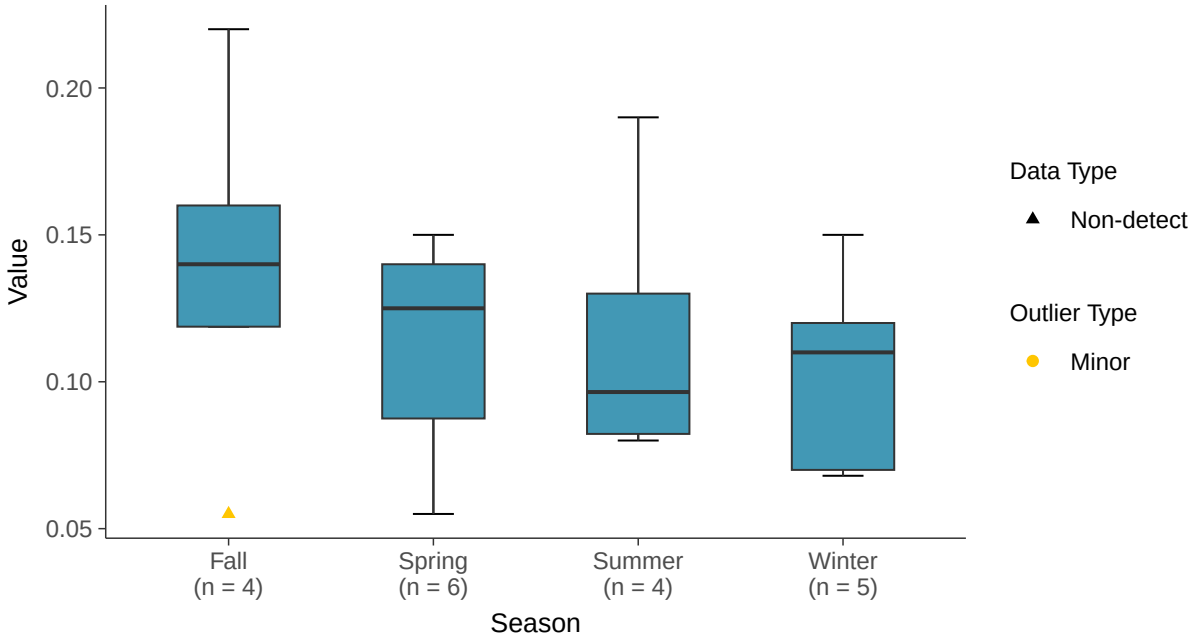
Boxplot

Fluoride, MW-07 (mg/L)



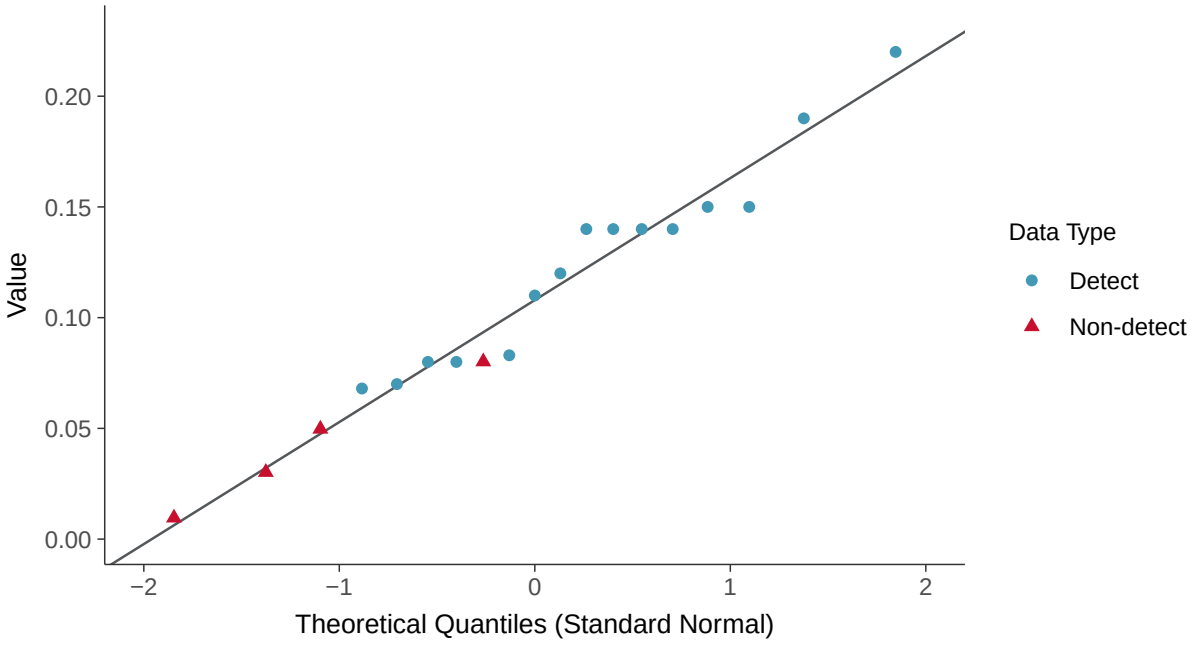
Boxplot by Season

Fluoride, MW-07 (mg/L)



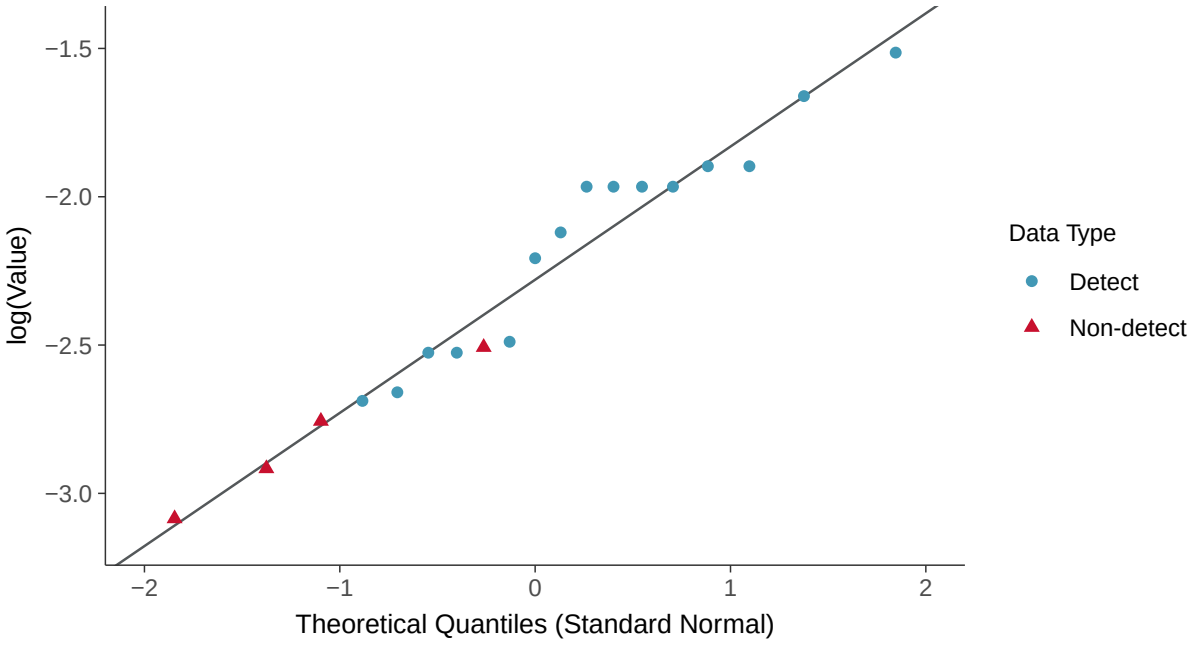
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-07 (mg/L)



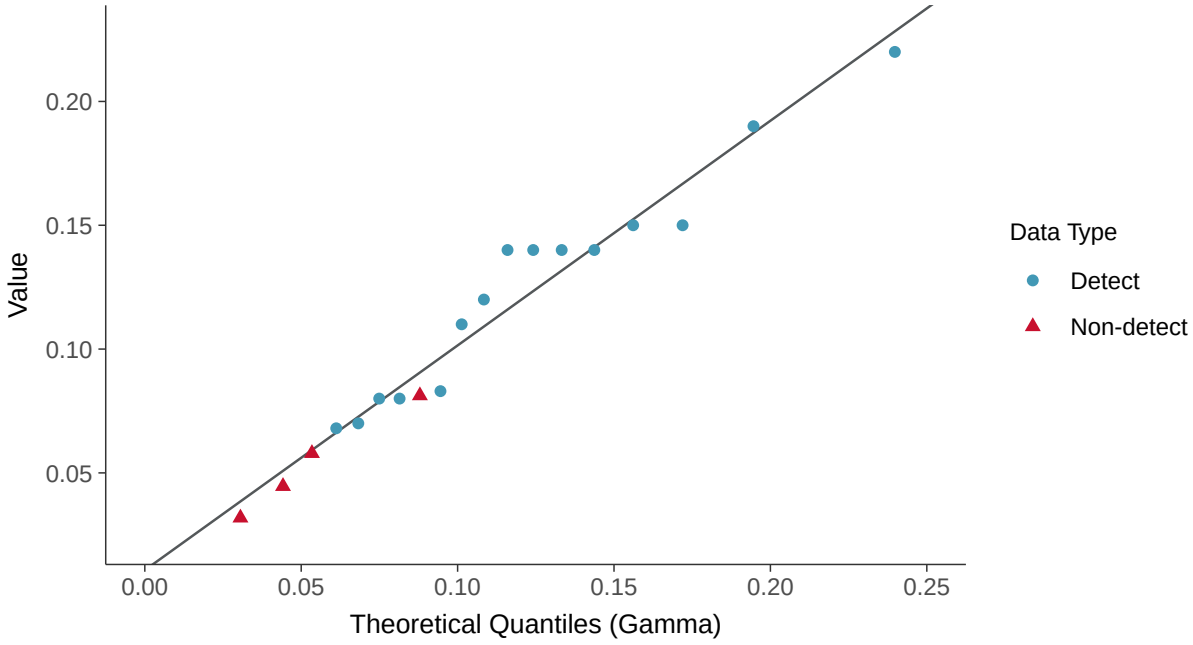
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-07 (mg/L)



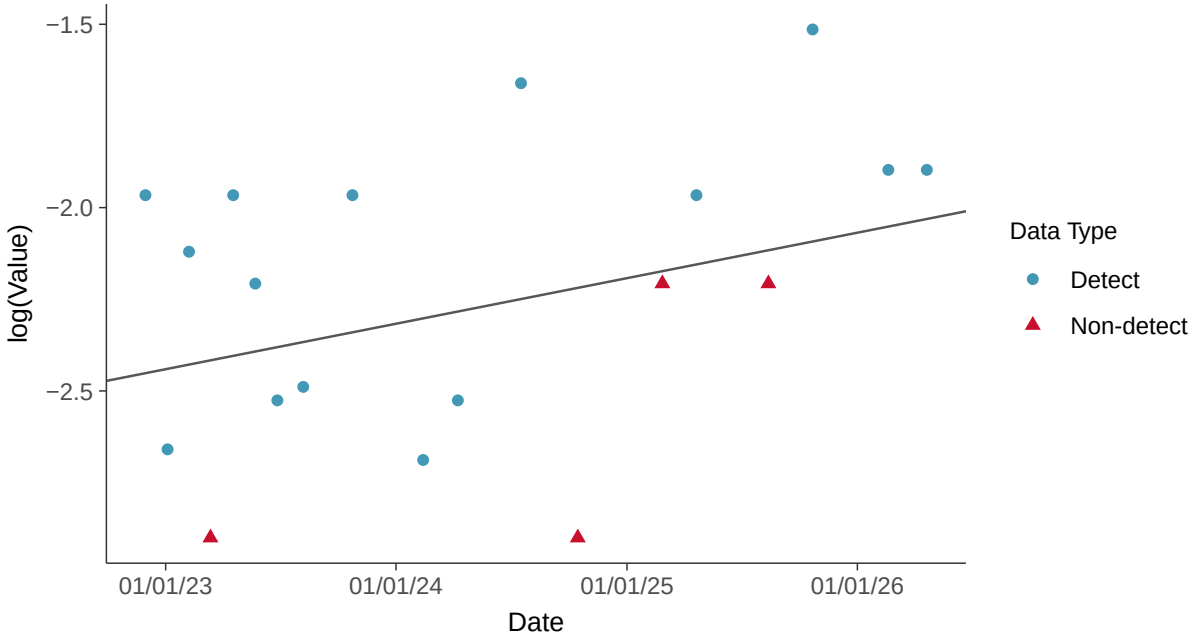
Gamma Q-Q plot using ROS Imputed Estimates

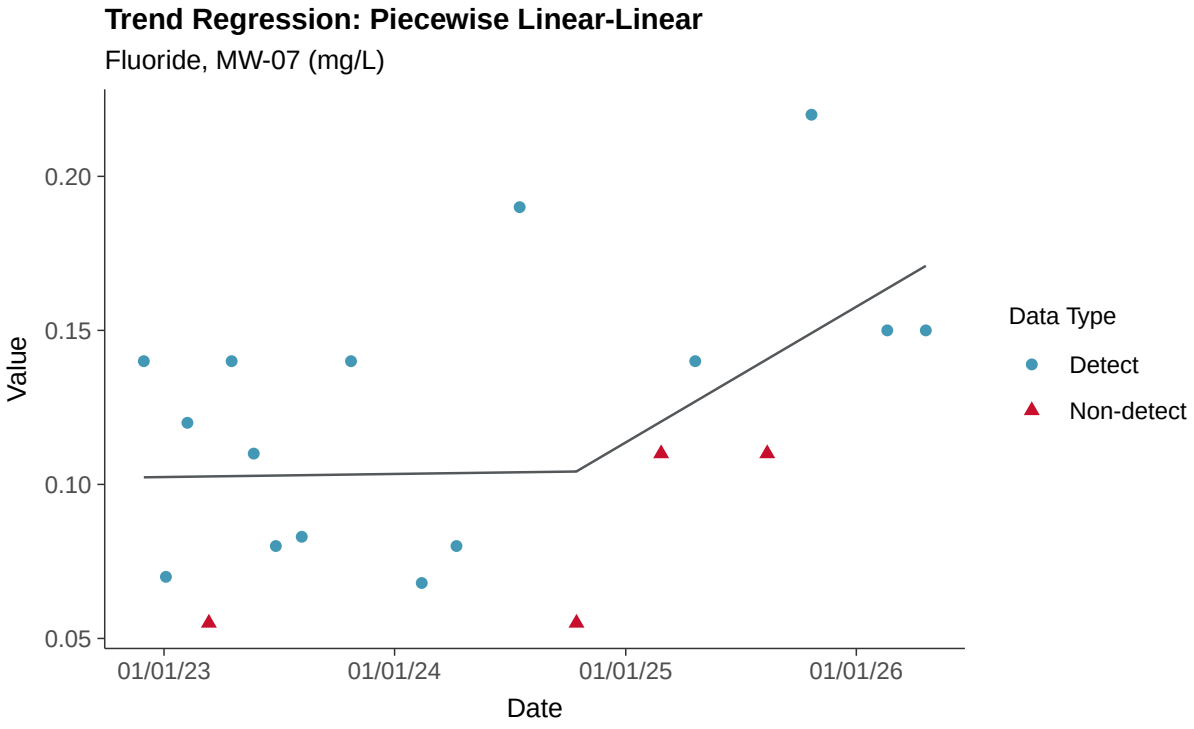
Fluoride, MW-07 (mg/L)



Trend Regression: Lognormal MLE

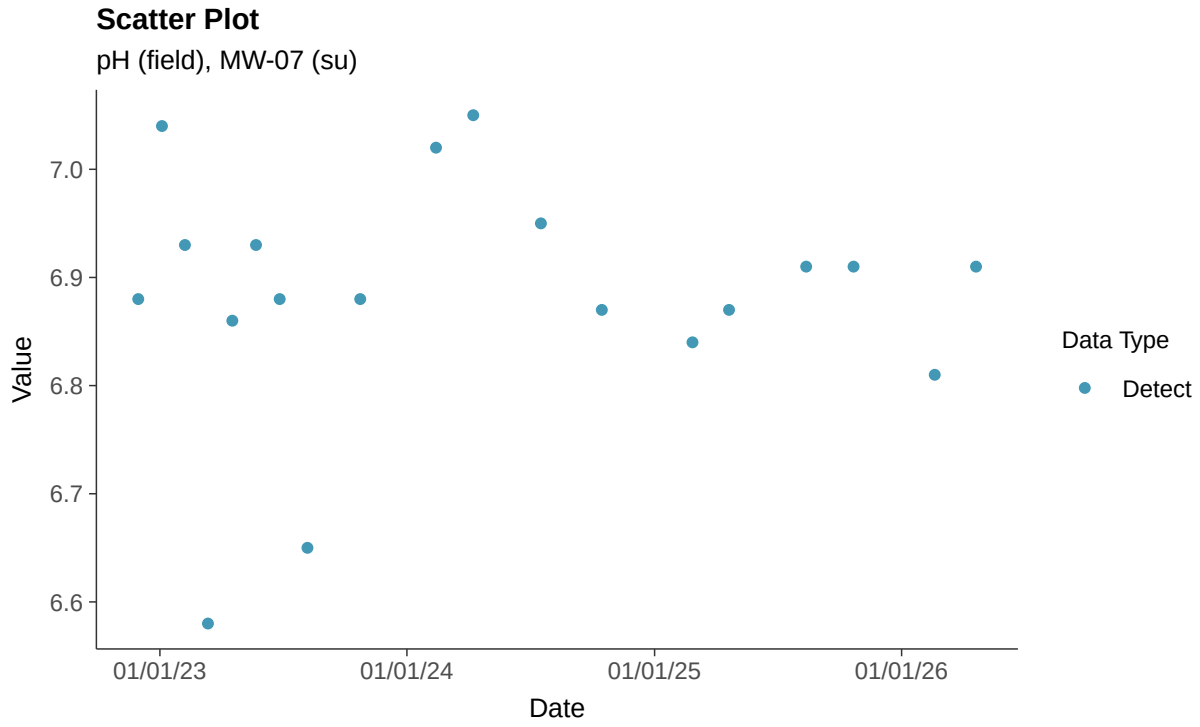
Fluoride, MW-07 (mg/L)

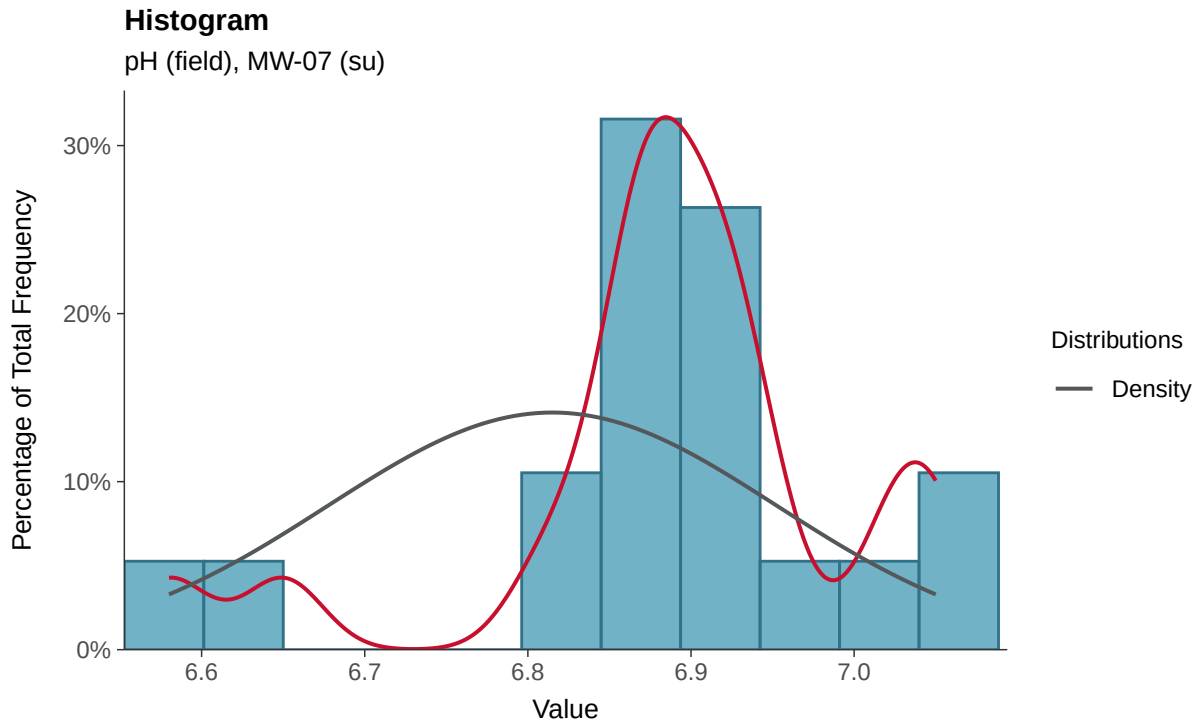



Trend Regression: Piecewise Linear-Linear
Fluoride, MW-07 (mg/L)
Value
0.20
0.15
0.10
0.05
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix III: pH (field), MW-07

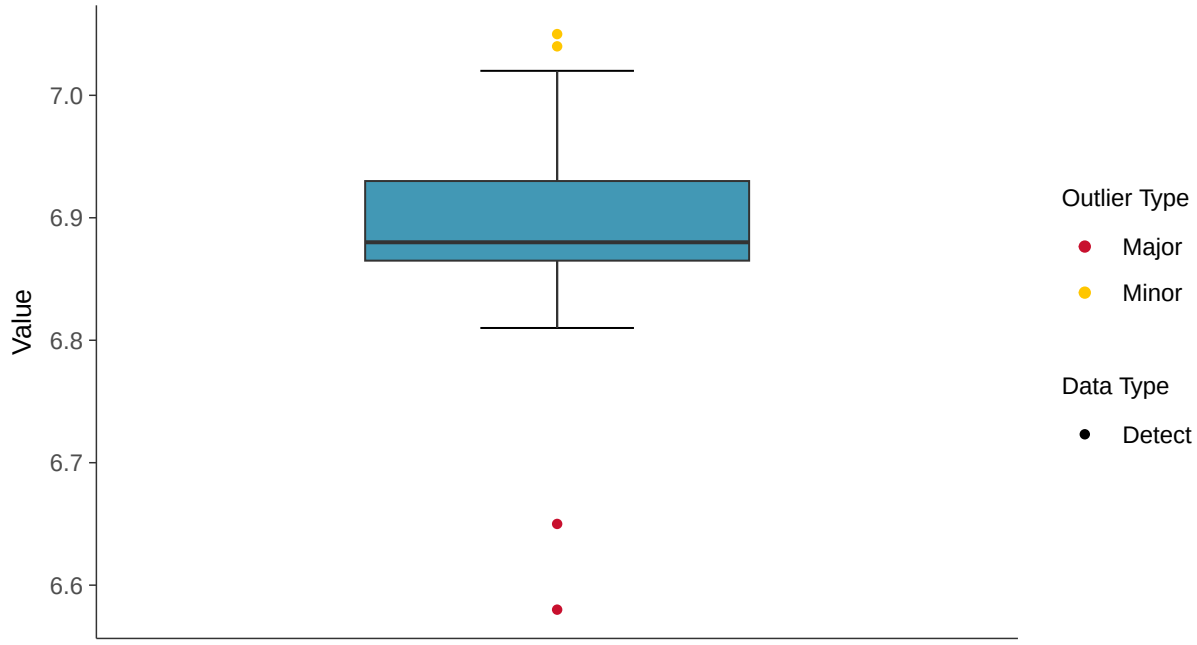
ID: 17_1_3_120





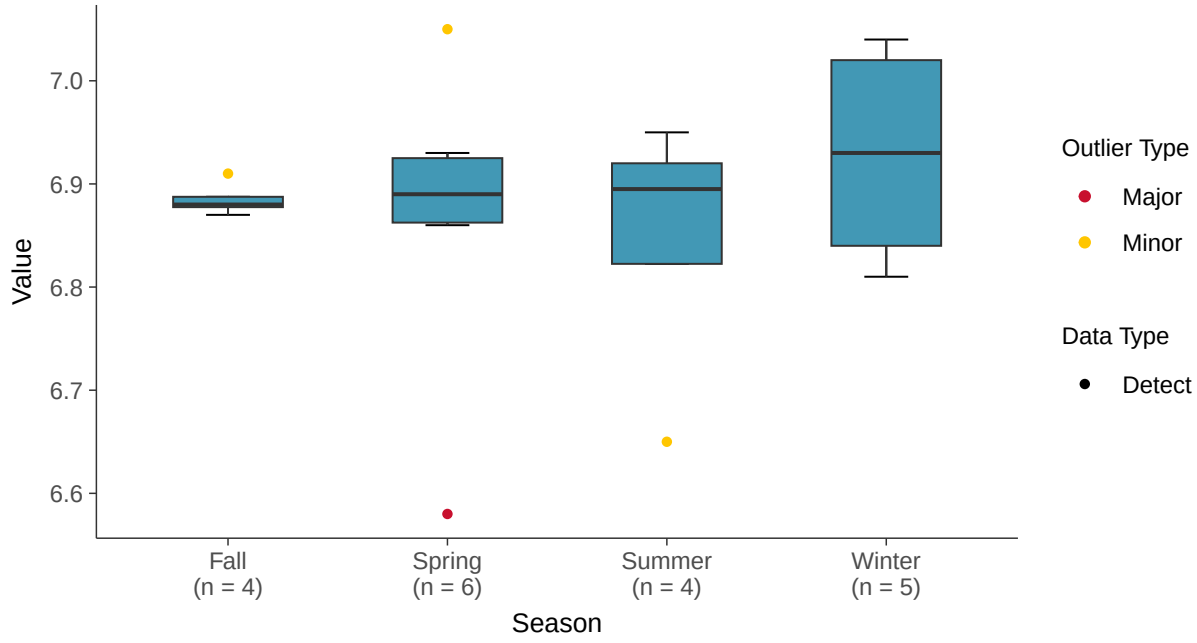
Boxplot

pH (field), MW-07 (su)



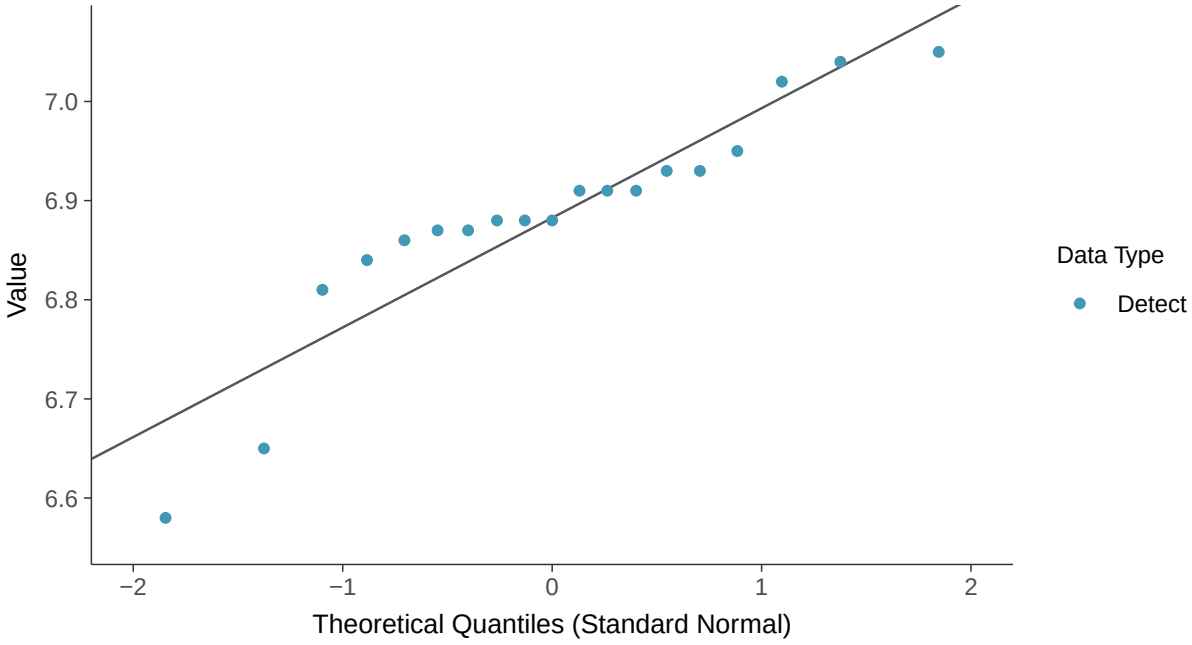
Boxplot by Season

pH (field), MW-07 (su)



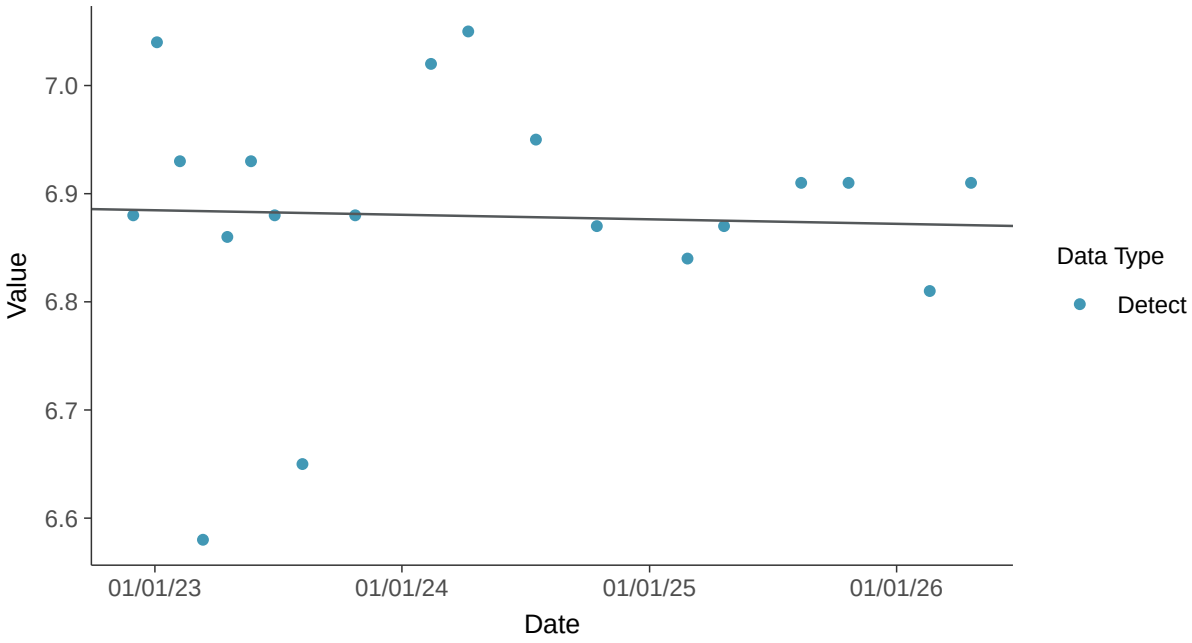
Normal Q-Q plot

pH (field), MW-07 (su)



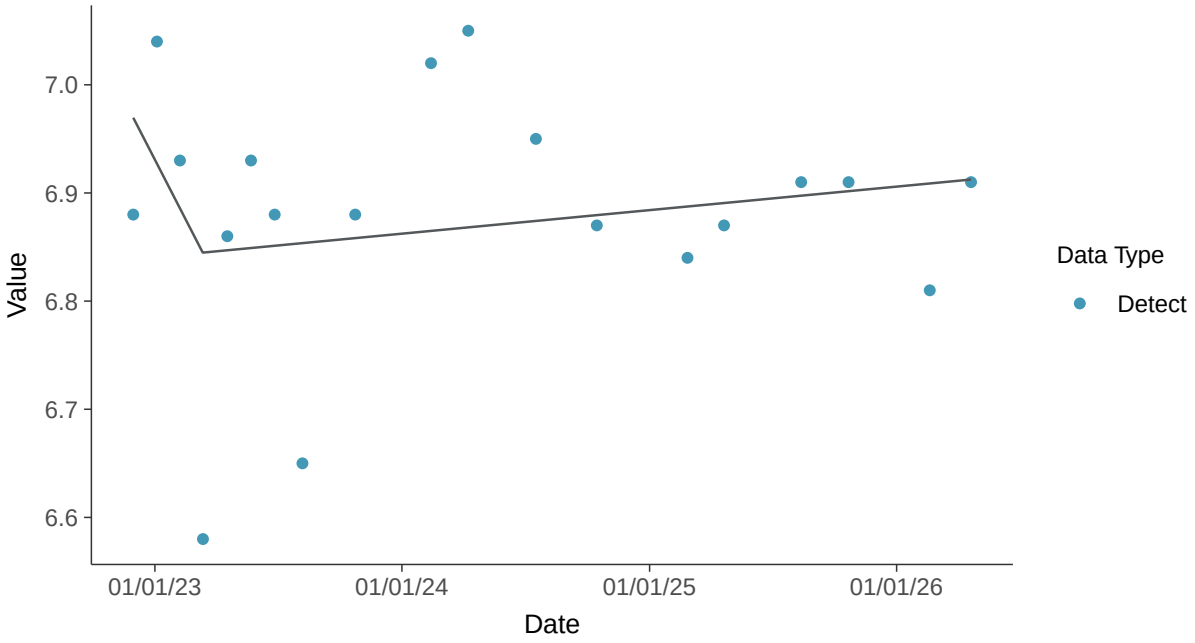
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-07 (su)



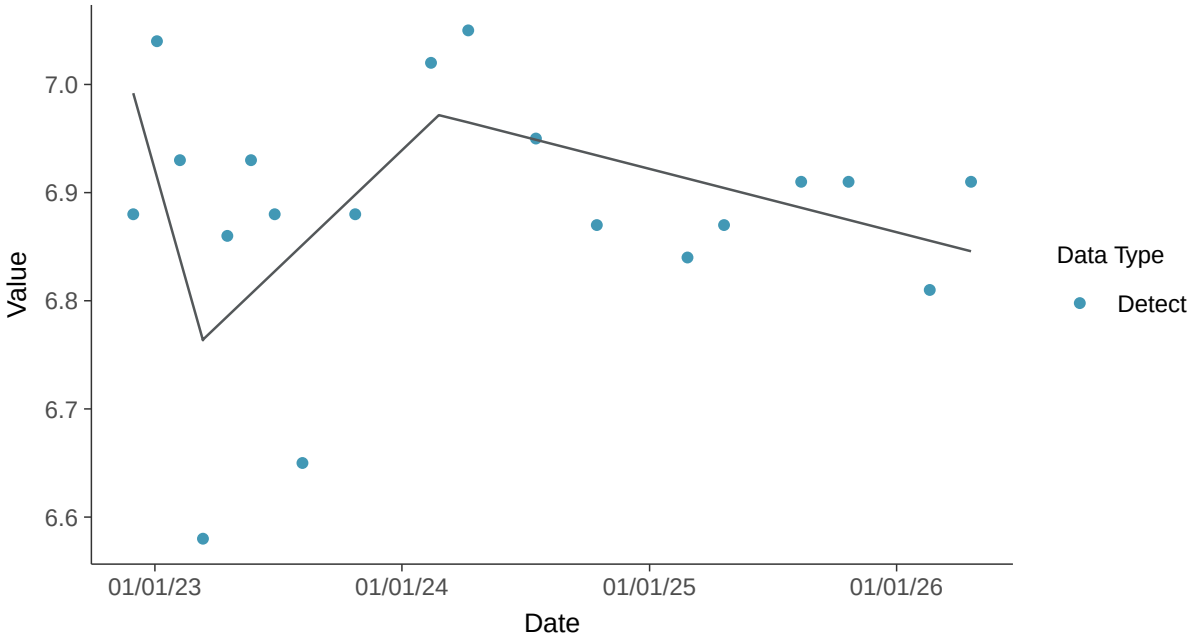
Trend Regression: Piecewise Linear-Linear

pH (field), MW-07 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-07 (su)

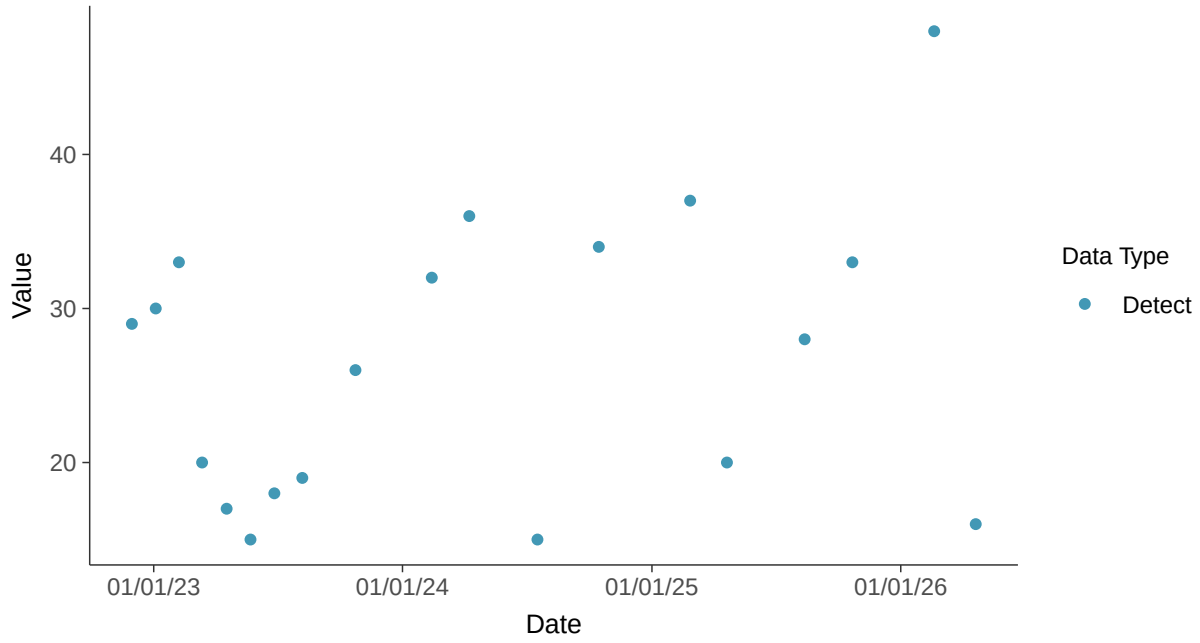


Appendix III: Sulfate (as SO4), MW-07

ID: 17_1_3_124

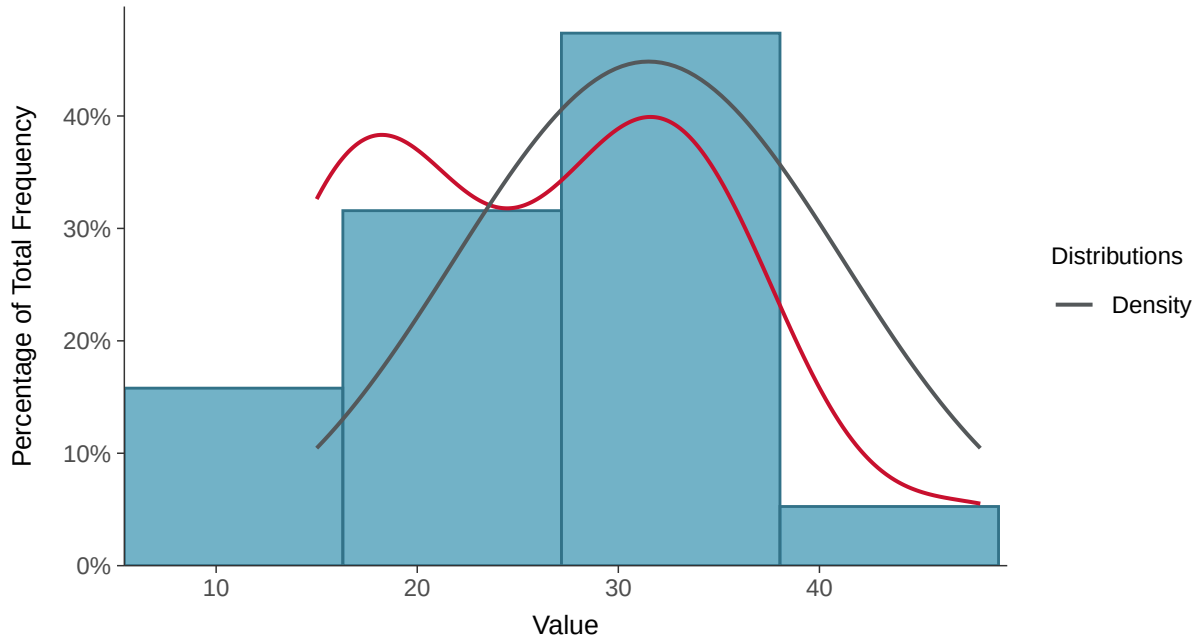
Scatter Plot

Sulfate (as SO4), MW-07 (mg/L)



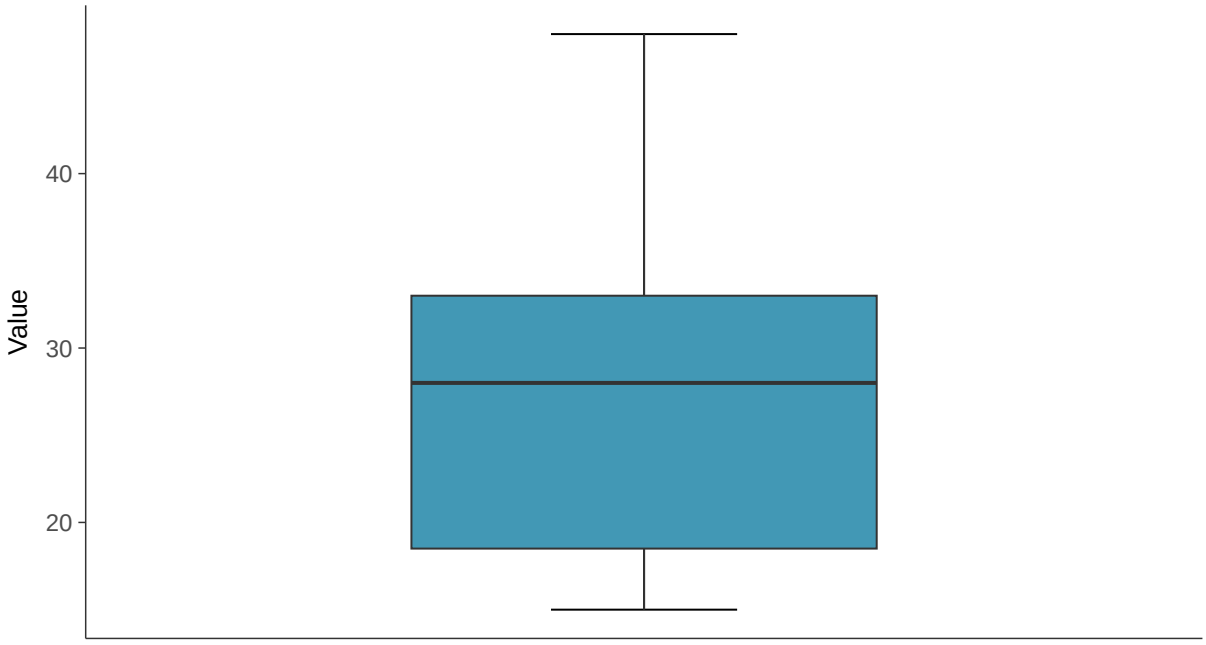
Histogram

Sulfate (as SO4), MW-07 (mg/L)



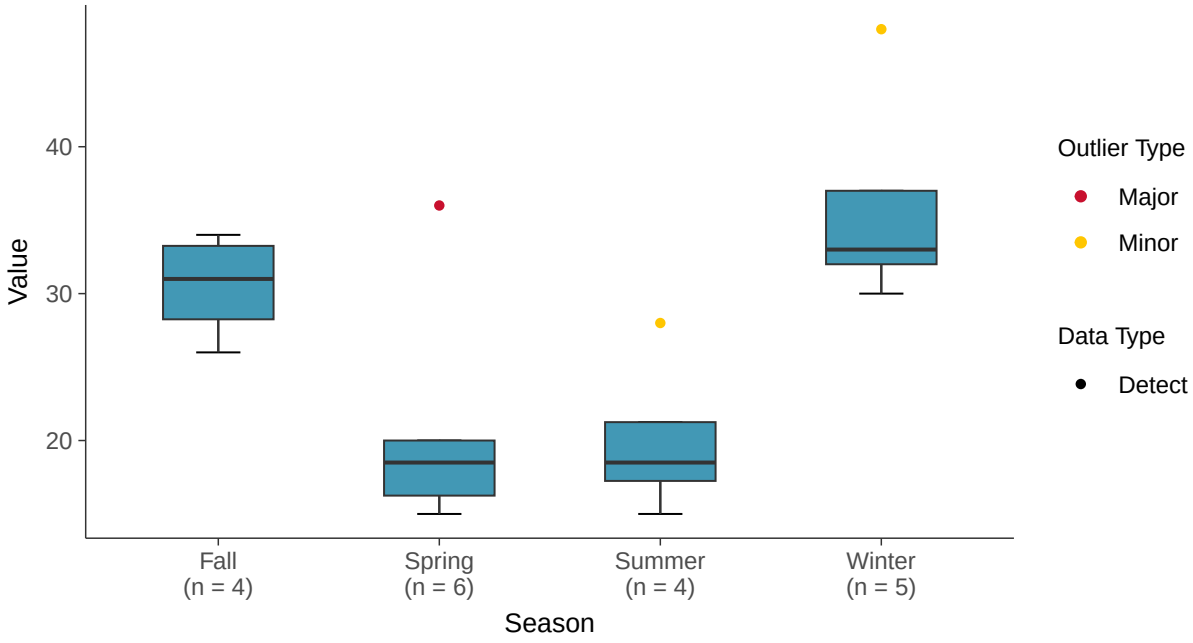
Boxplot

Sulfate (as SO4), MW-07 (mg/L)



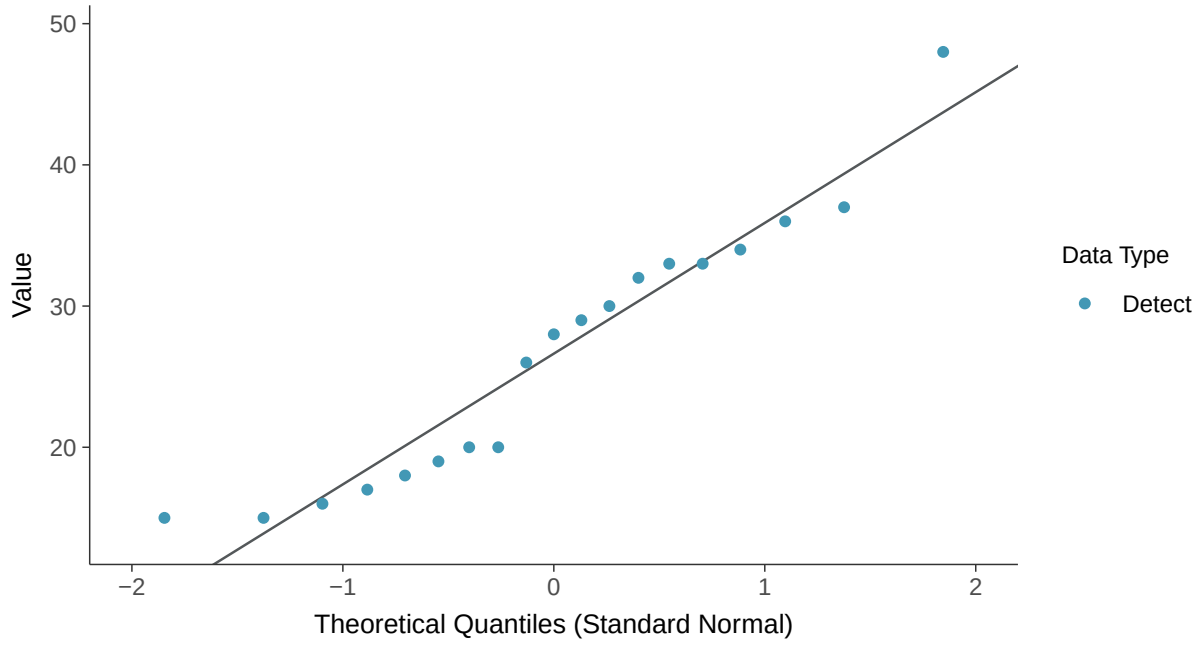
Boxplot by Season

Sulfate (as SO4), MW-07 (mg/L)



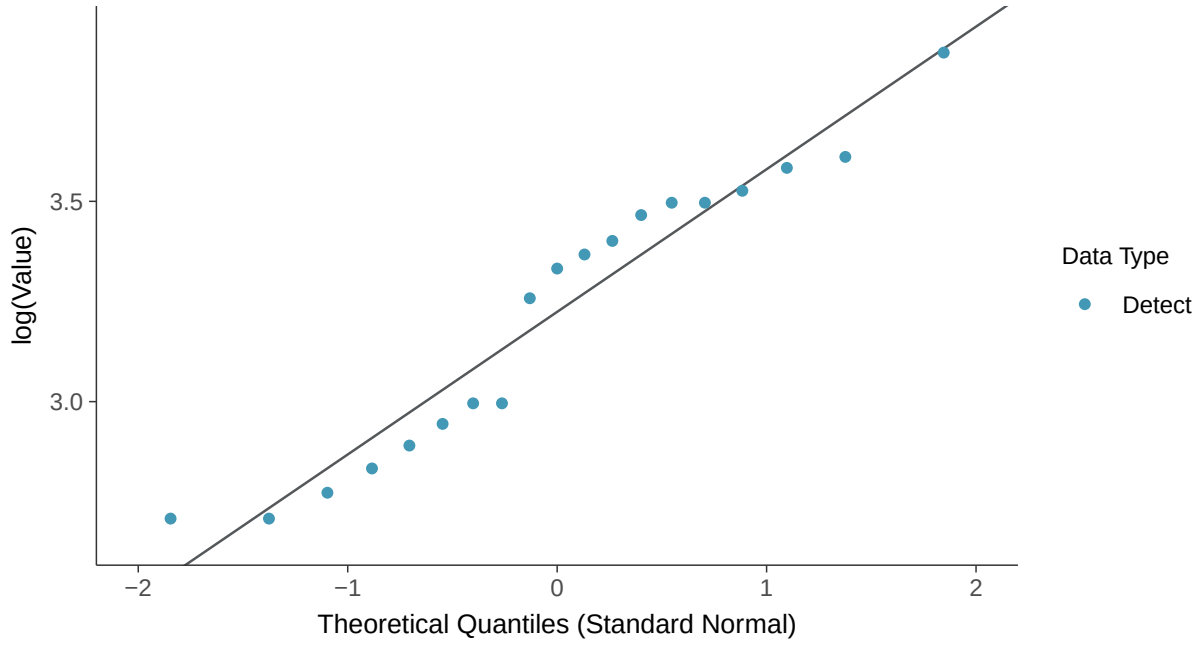
Normal Q-Q plot

Sulfate (as SO4), MW-07 (mg/L)



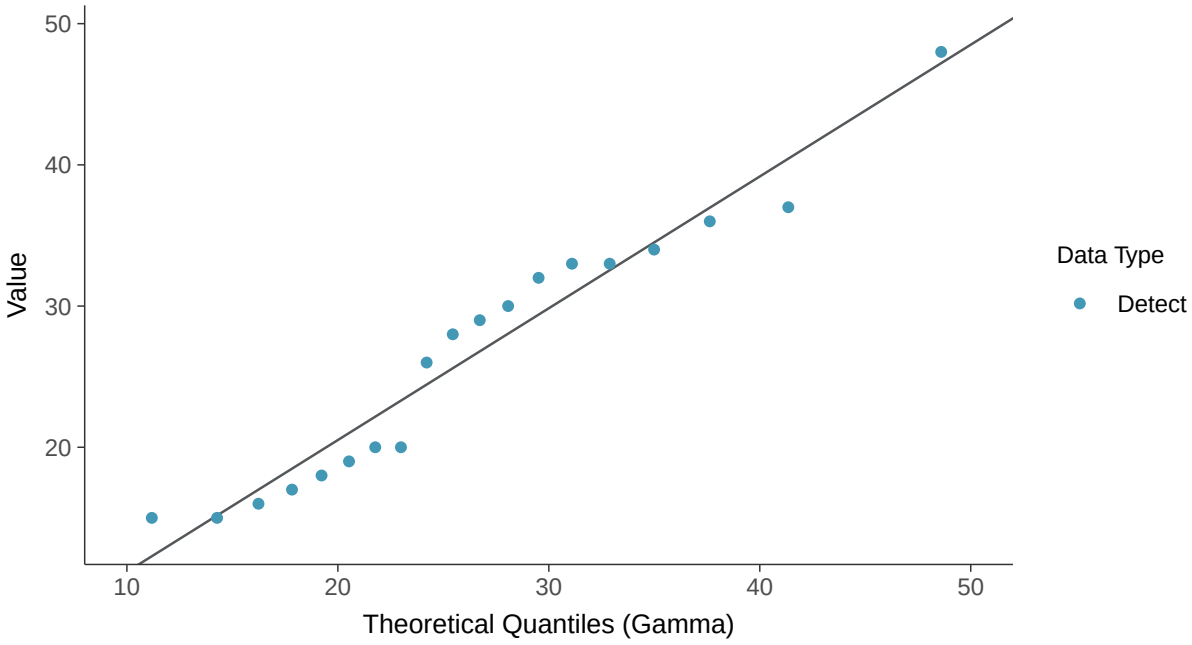
Lognormal Q-Q plot

Sulfate (as SO4), MW-07 (mg/L)



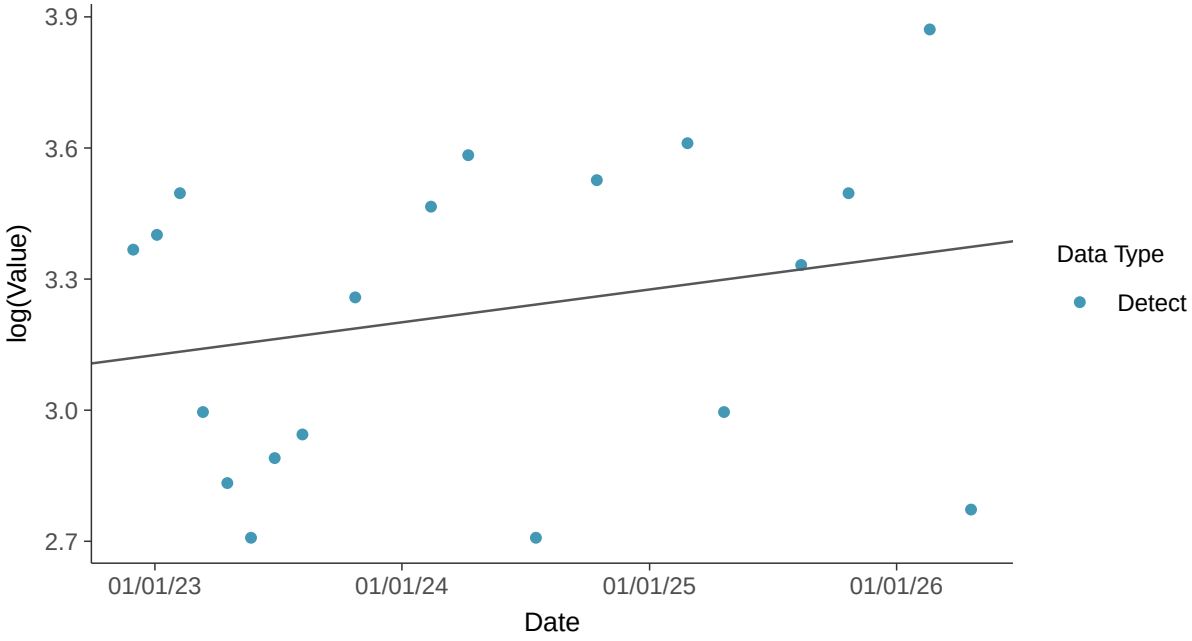
Gamma Q-Q plot

Sulfate (as SO4), MW-07 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-07 (mg/L)

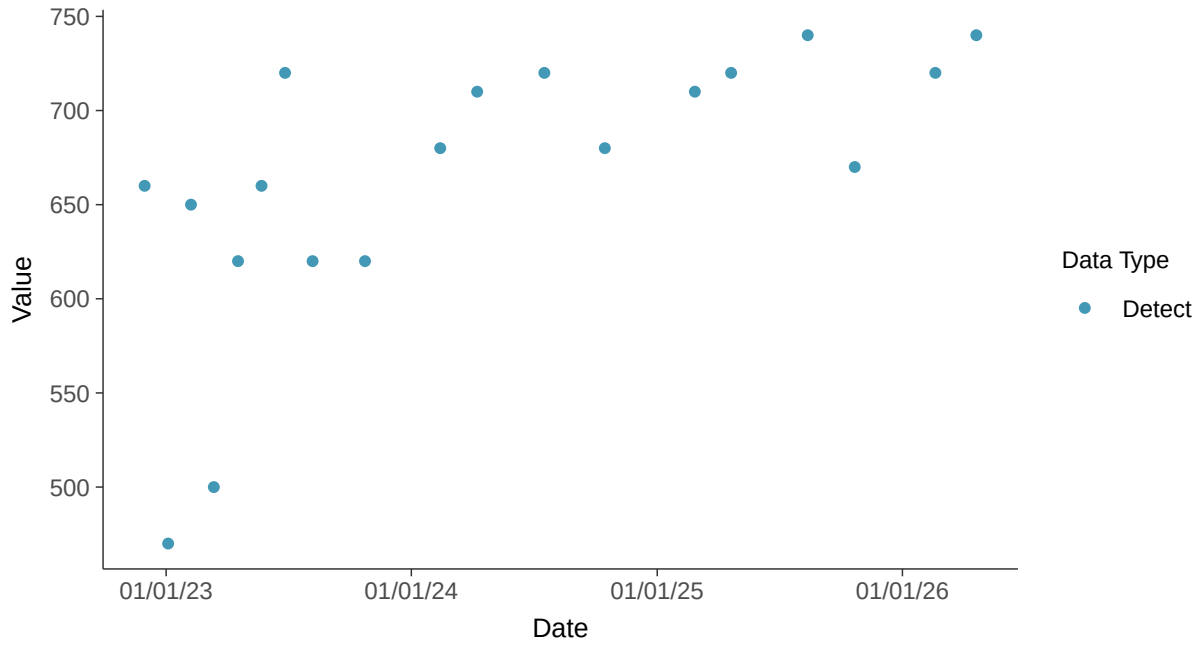


Appendix III: Total Dissolved Solids, MW-07

ID: 17_1_3_126

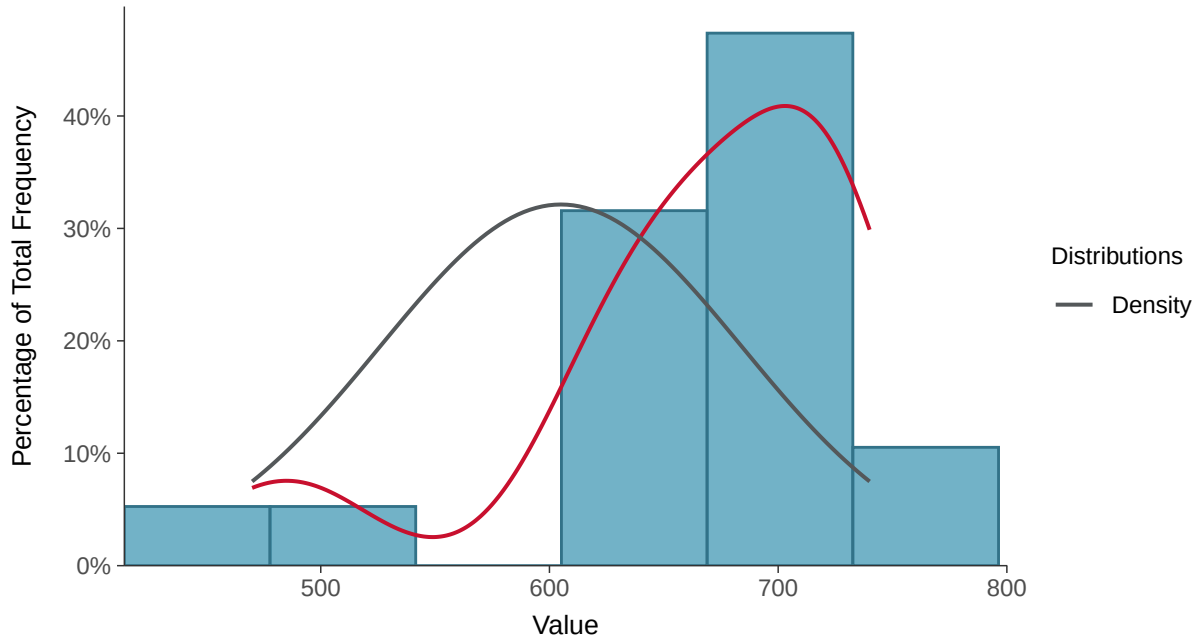
Scatter Plot

Total Dissolved Solids, MW-07 (mg/L)



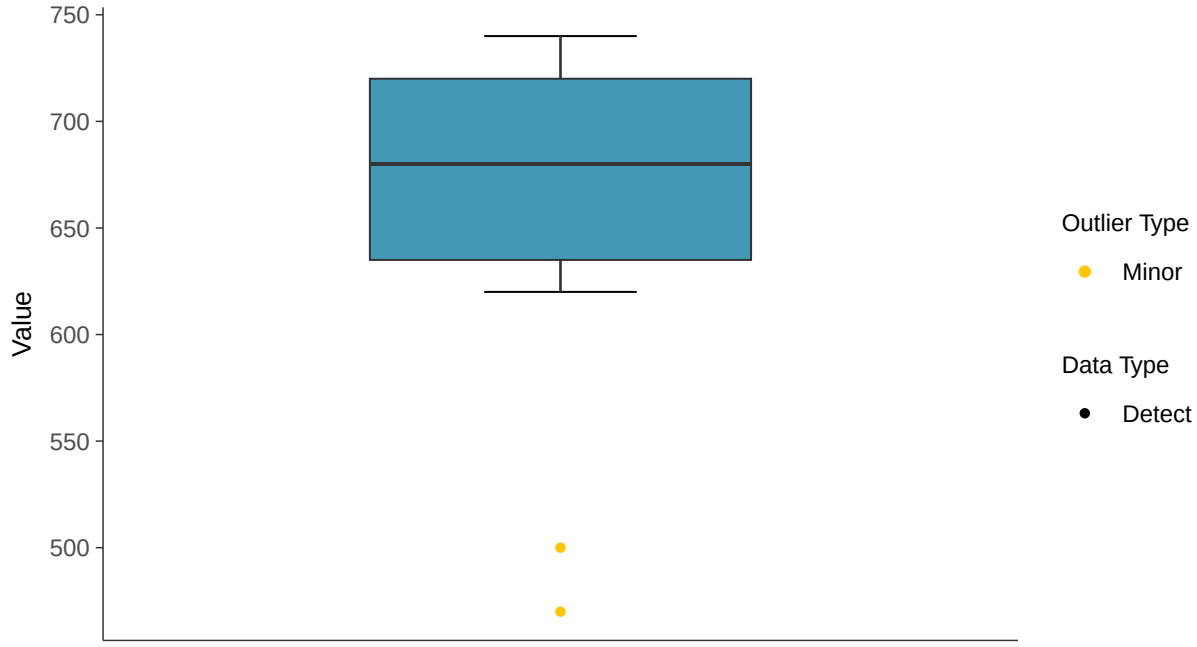
Histogram

Total Dissolved Solids, MW-07 (mg/L)



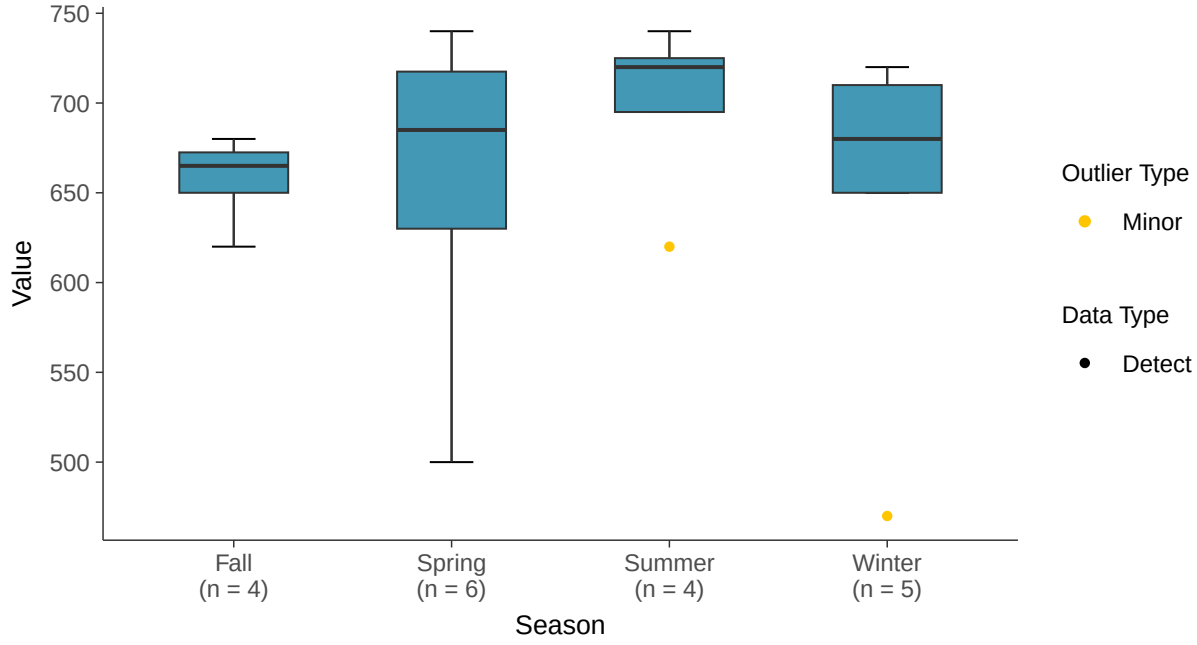
Boxplot

Total Dissolved Solids, MW-07 (mg/L)



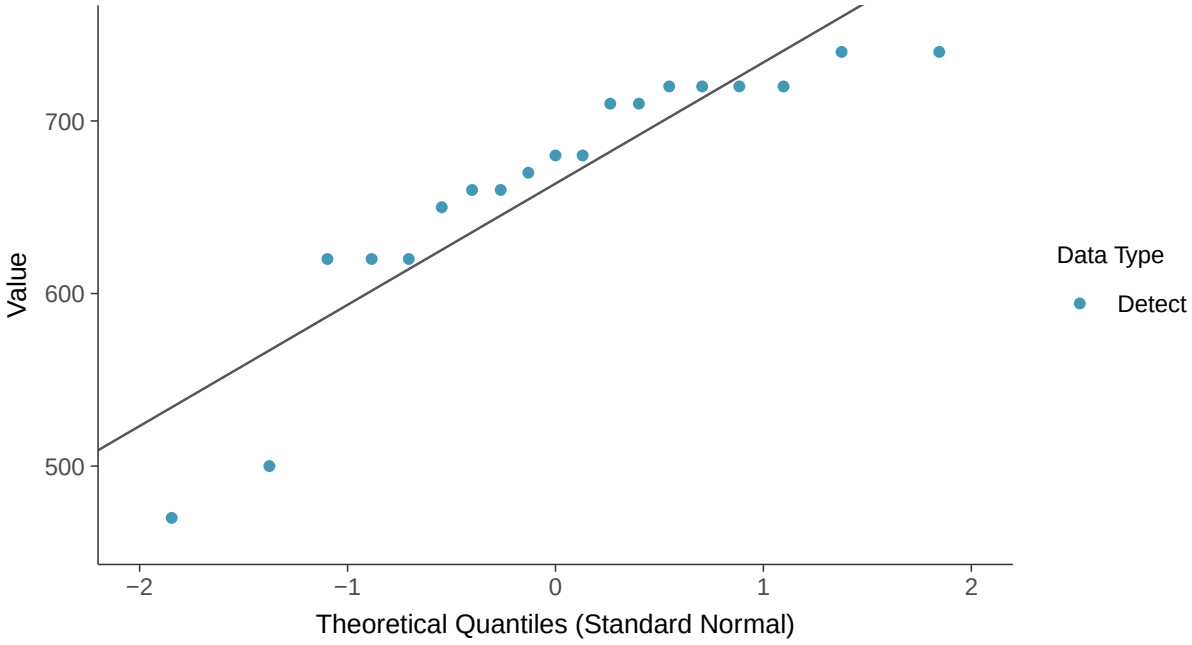
Boxplot by Season

Total Dissolved Solids, MW-07 (mg/L)



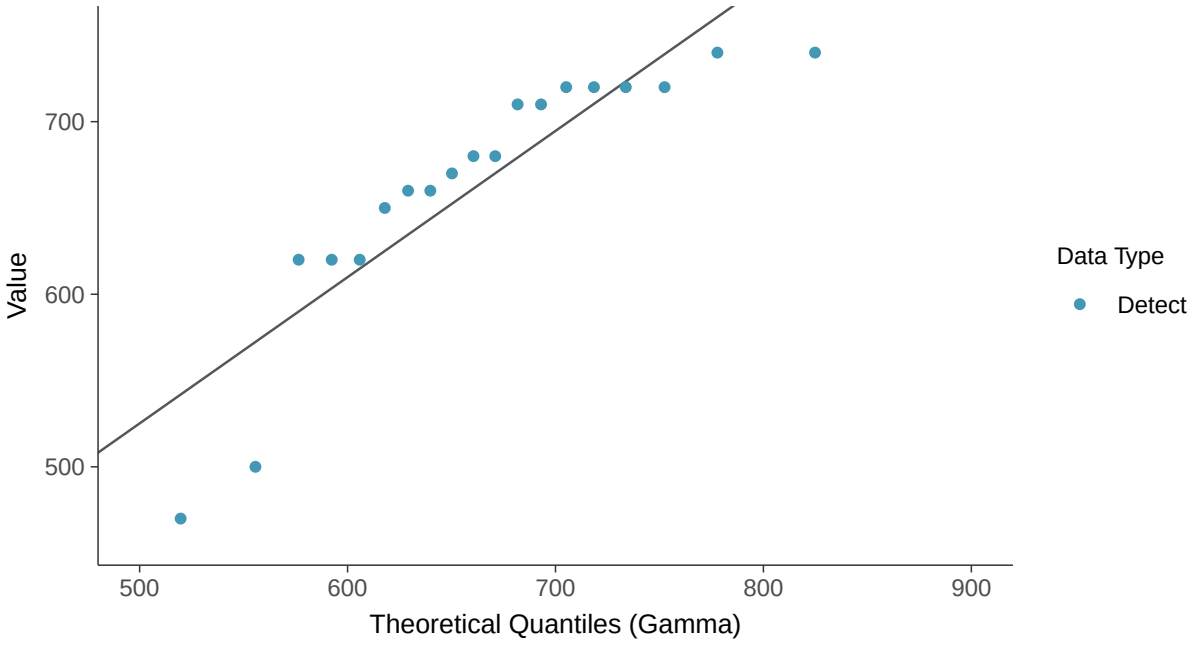
Normal Q-Q plot

Total Dissolved Solids, MW-07 (mg/L)



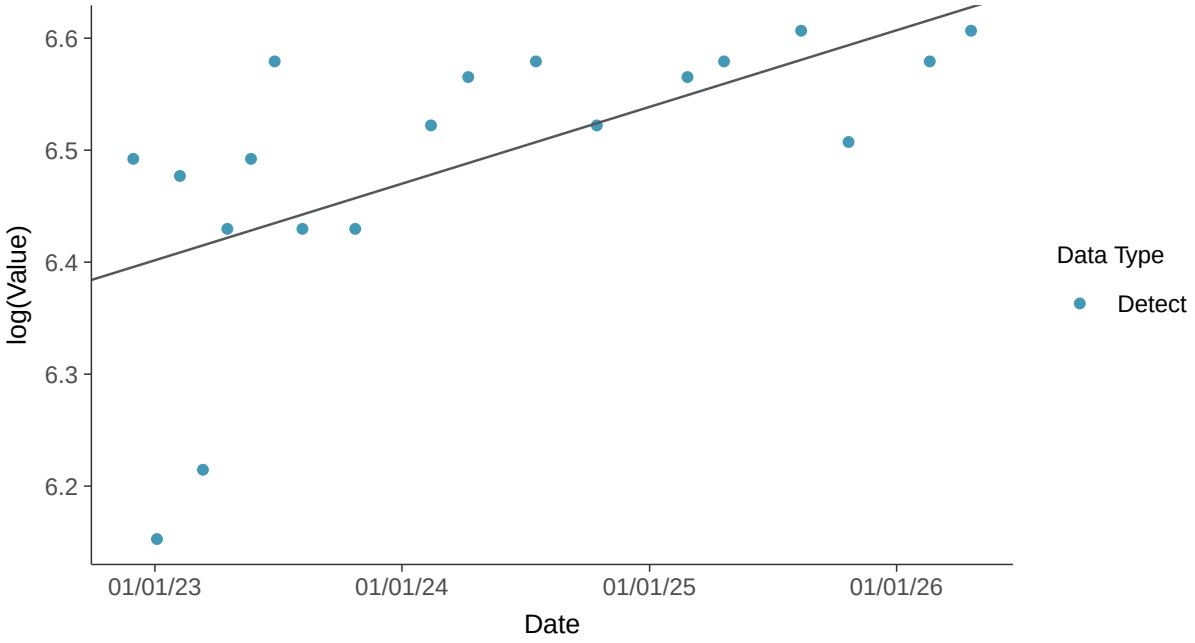
Gamma Q-Q plot

Total Dissolved Solids, MW-07 (mg/L)



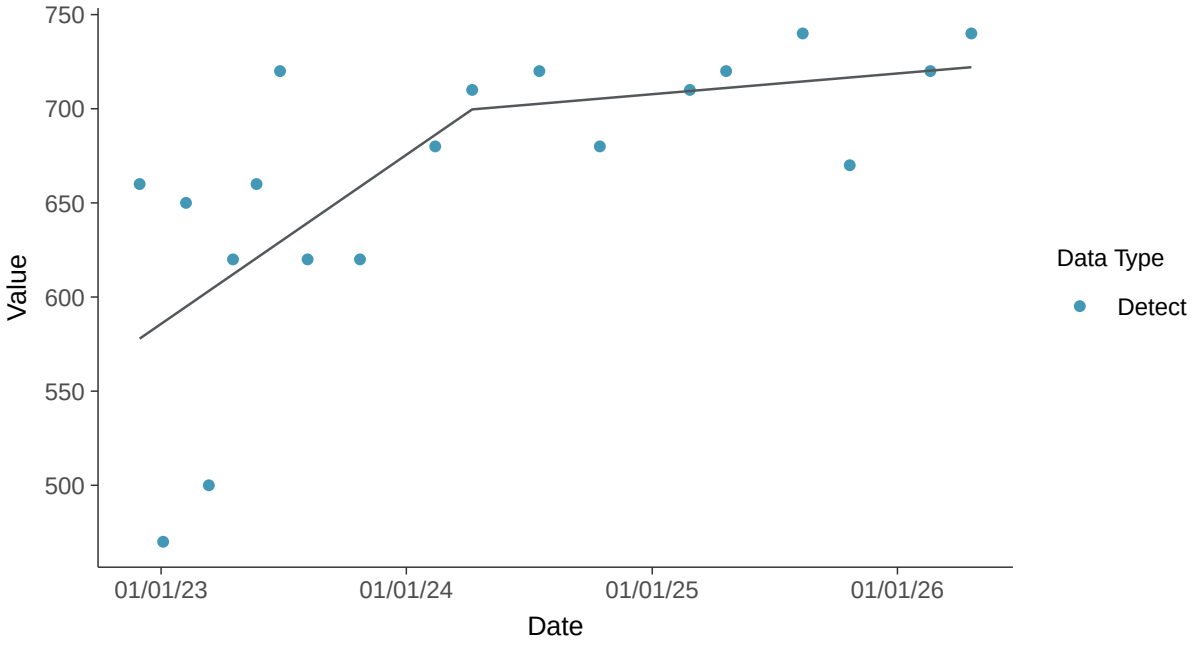
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-07 (mg/L)



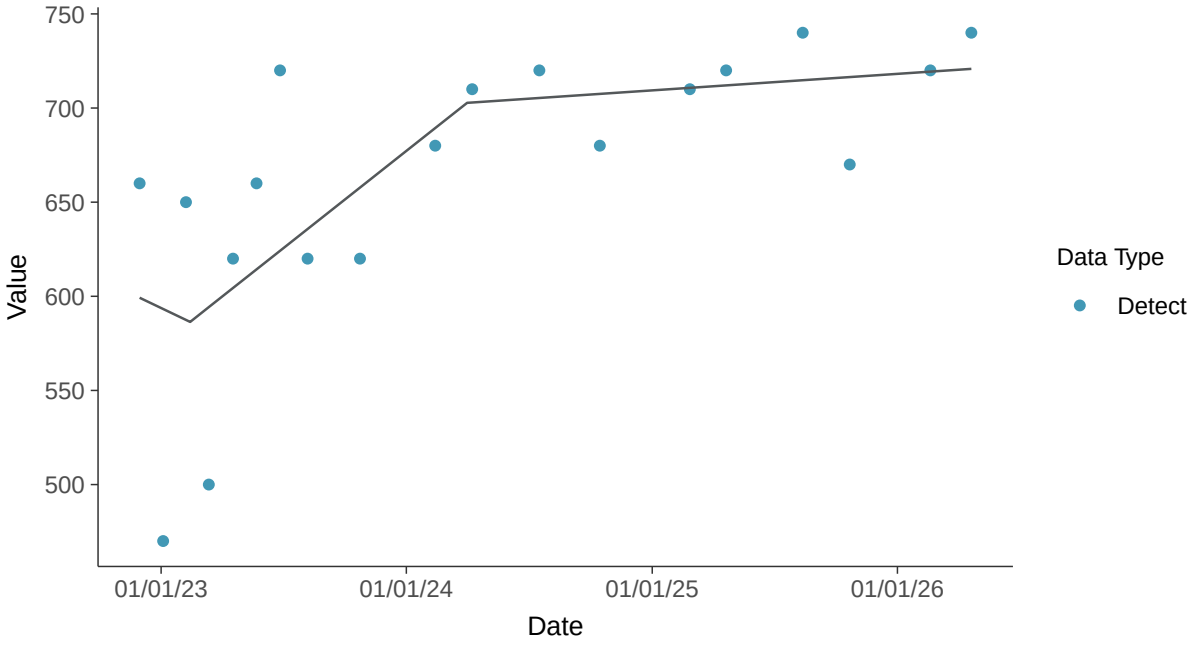
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-07 (mg/L)



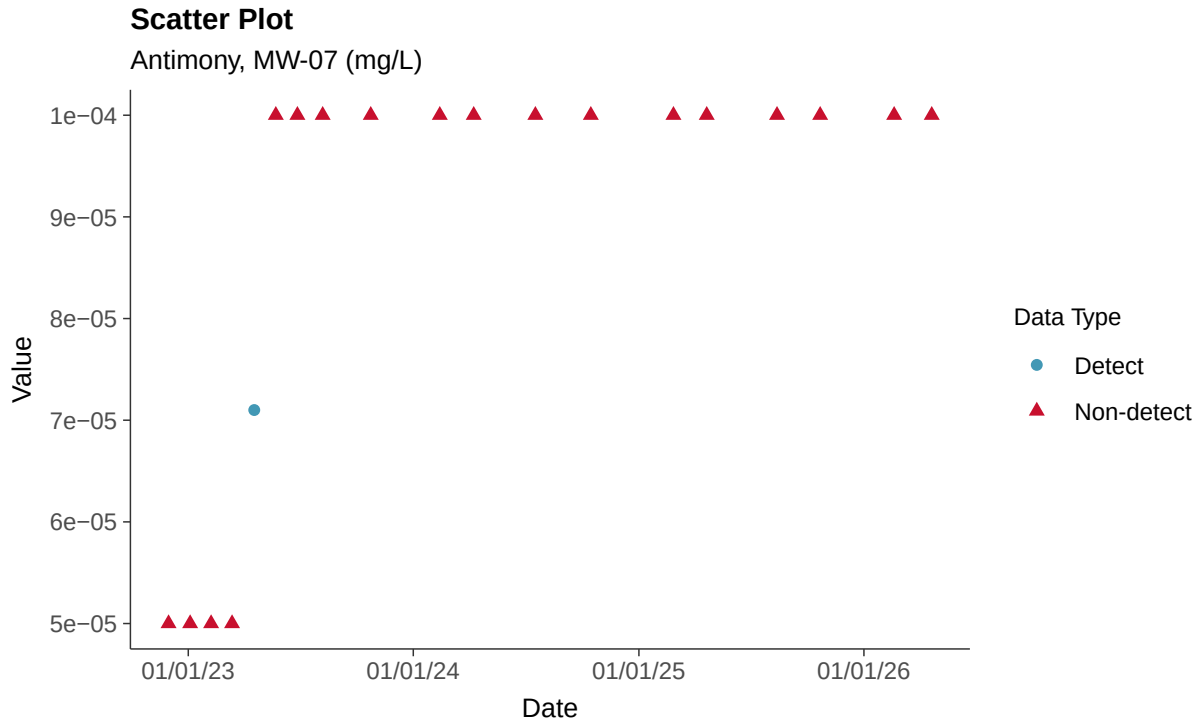
Trend Regression: Piecewise Linear-Linear-Linear

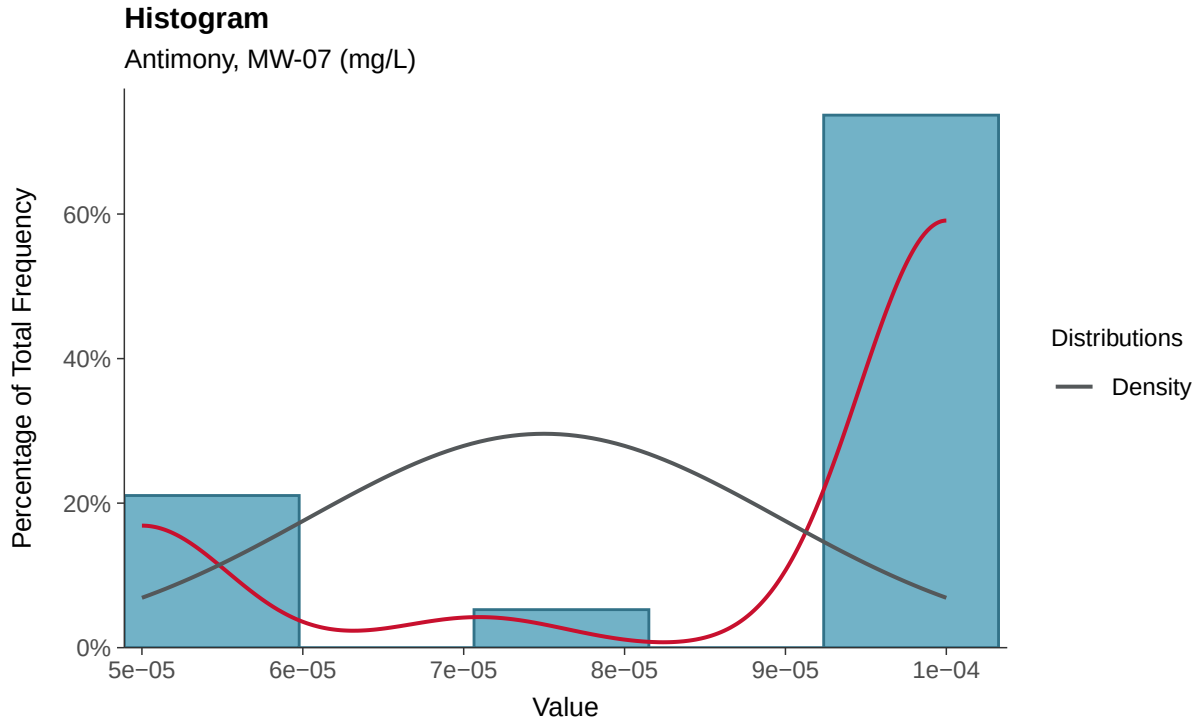
Total Dissolved Solids, MW-07 (mg/L)



Appendix IV: Antimony, MW-07

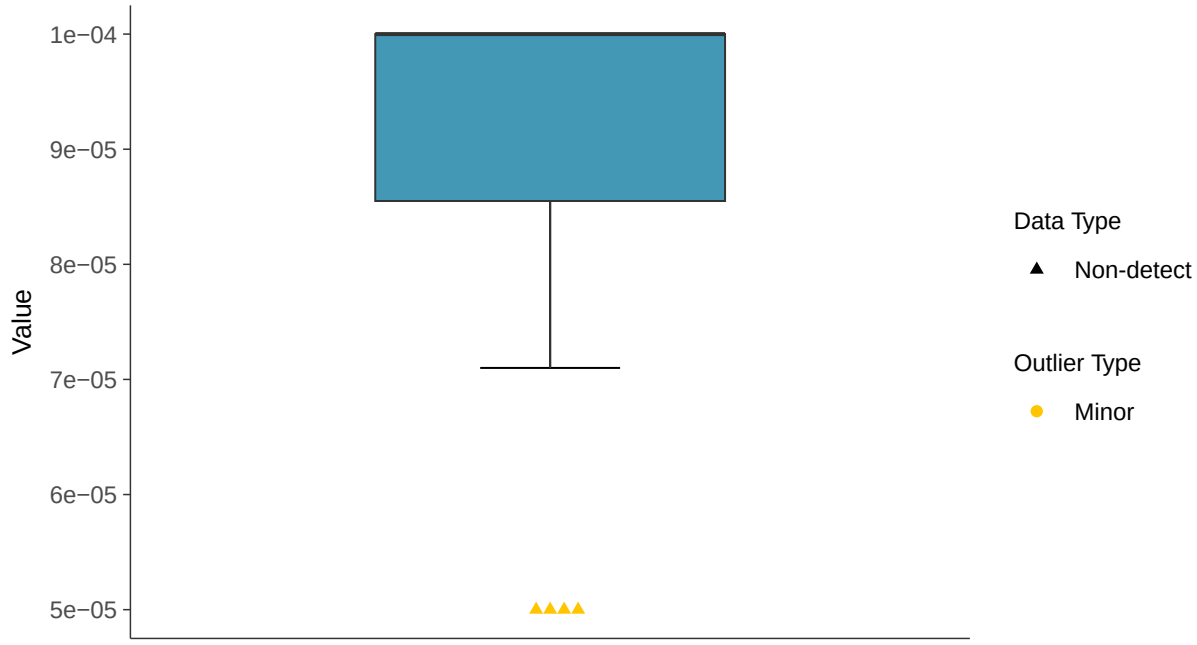
ID: 17_1_4_101





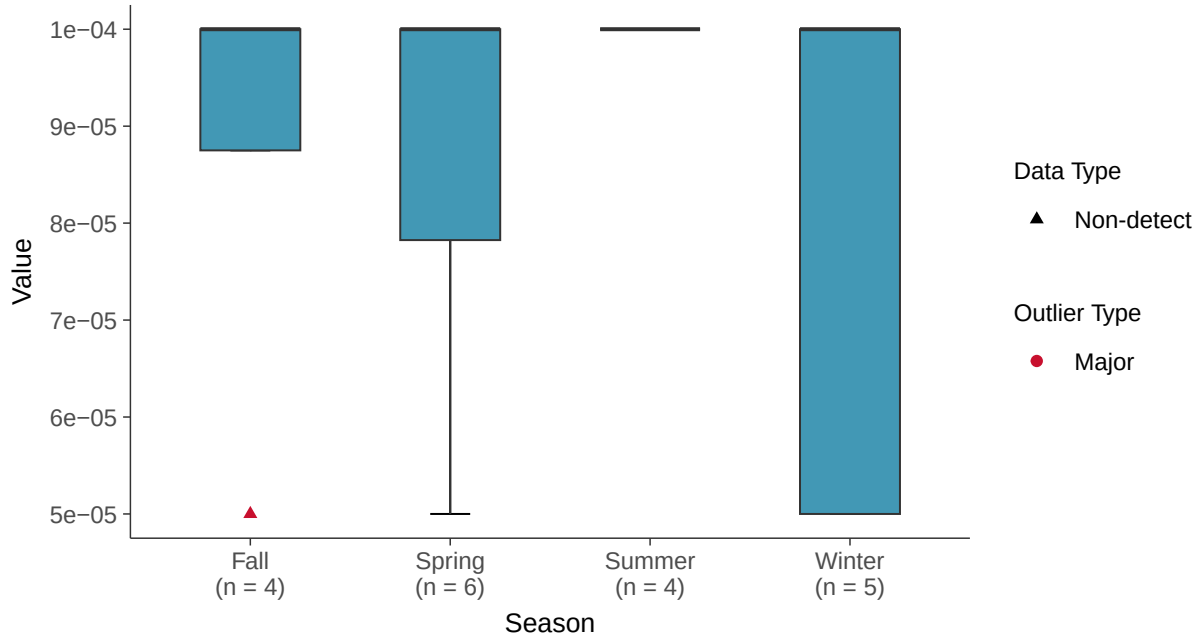
Boxplot

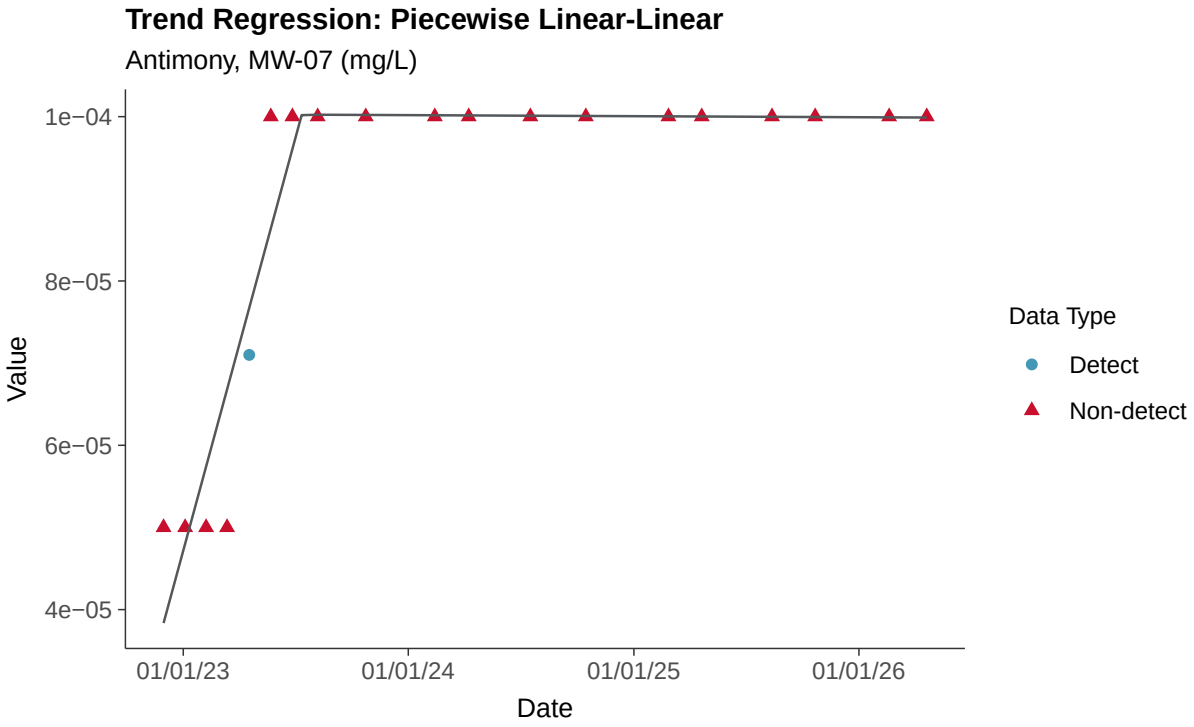
Antimony, MW-07 (mg/L)



Boxplot by Season

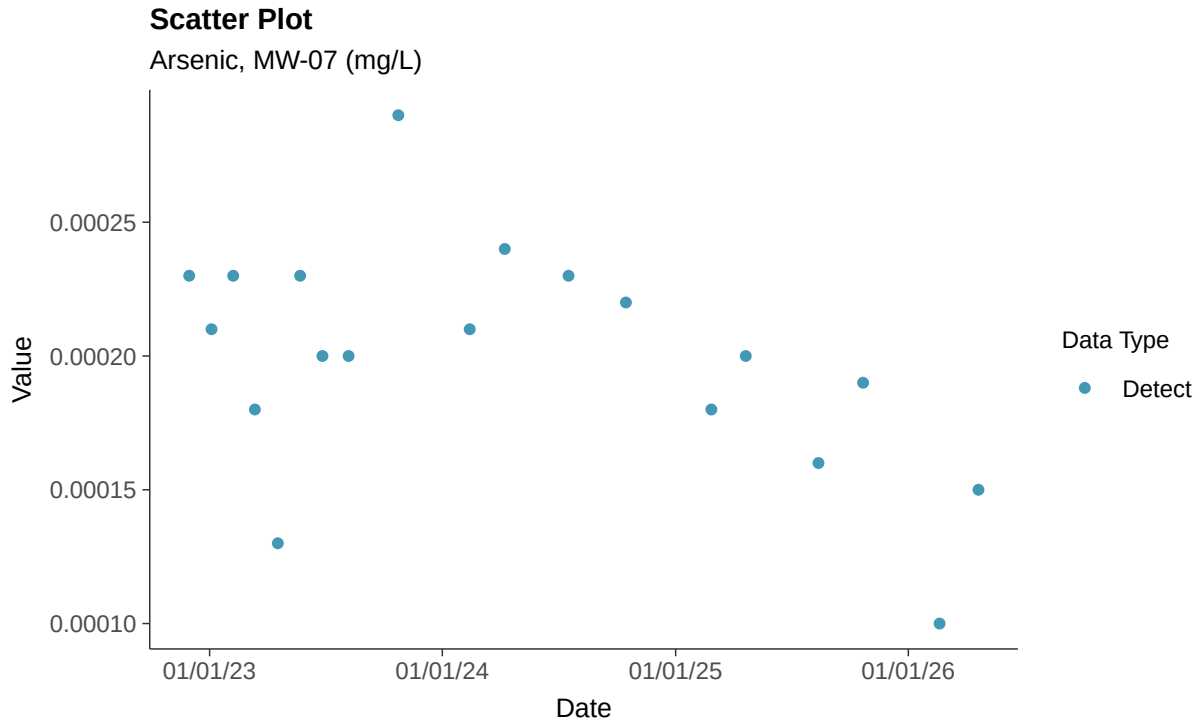
Antimony, MW-07 (mg/L)

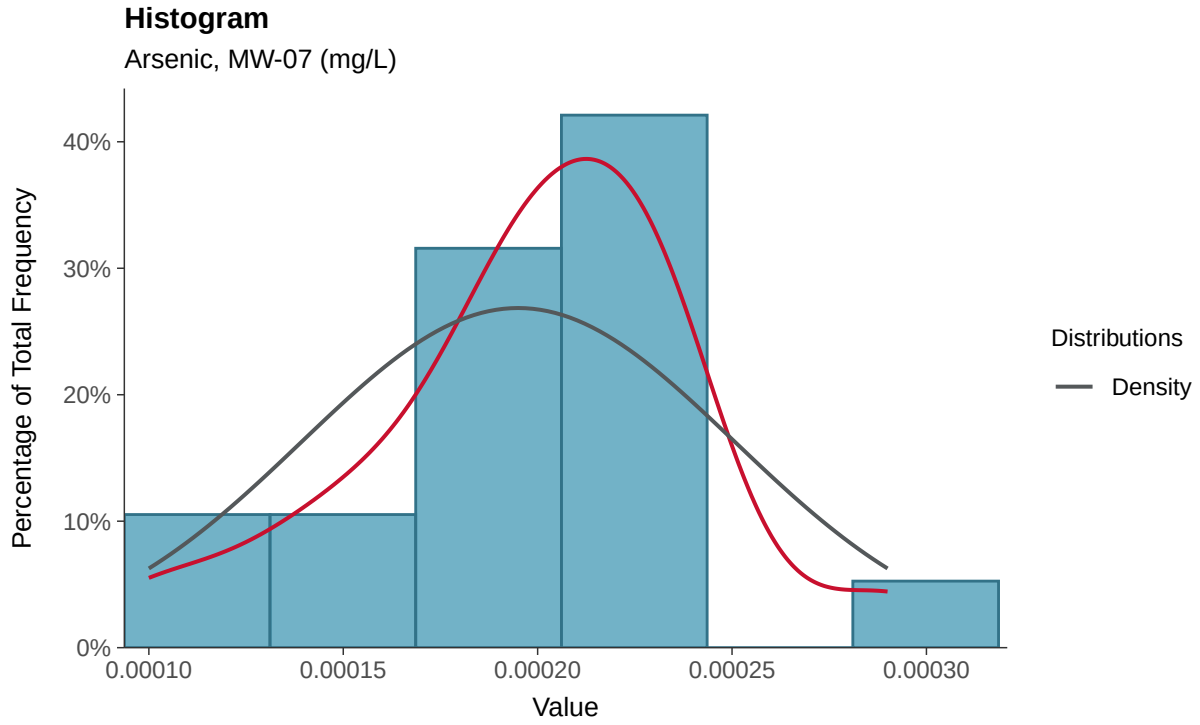



Trend Regression: Piecewise Linear-Linear
Antimony, MW-07 (mg/L)
1e−04
8e−05
6e−05
4e−05
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Arsenic, MW-07

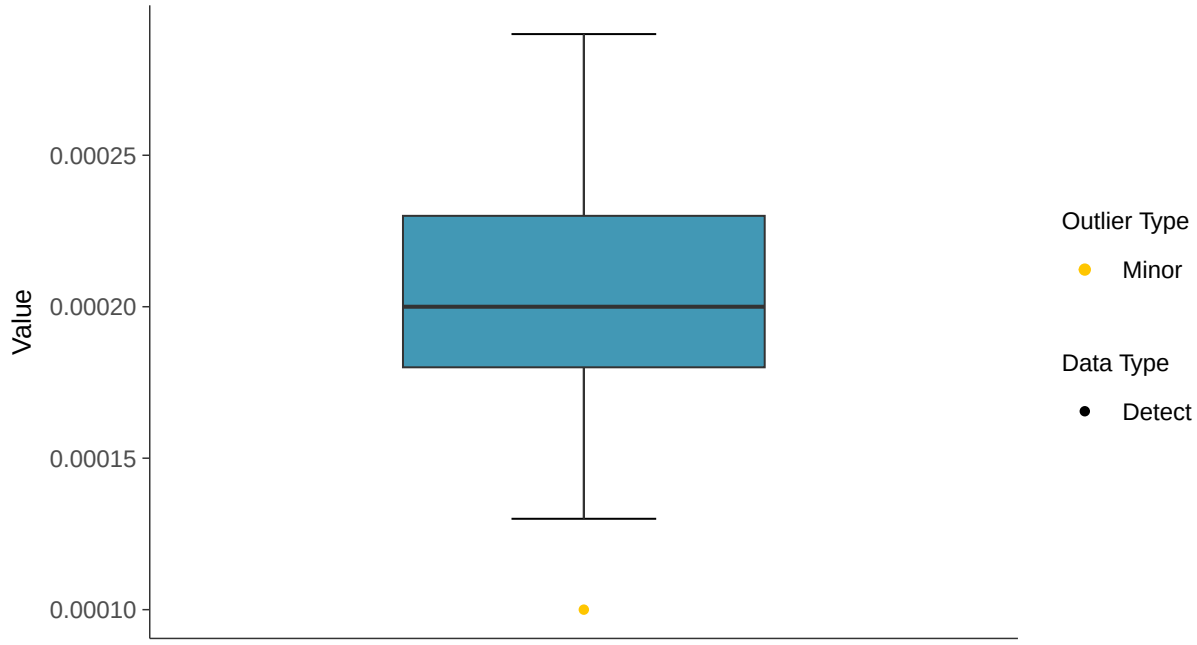
ID: 17_1_4_102





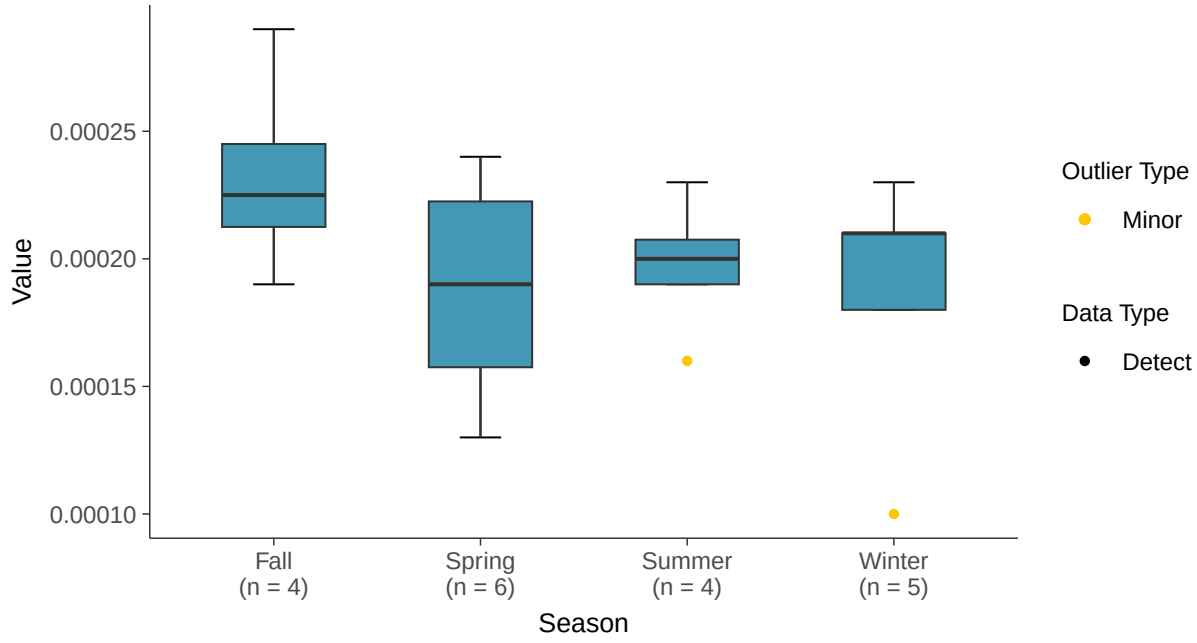
Boxplot

Arsenic, MW-07 (mg/L)



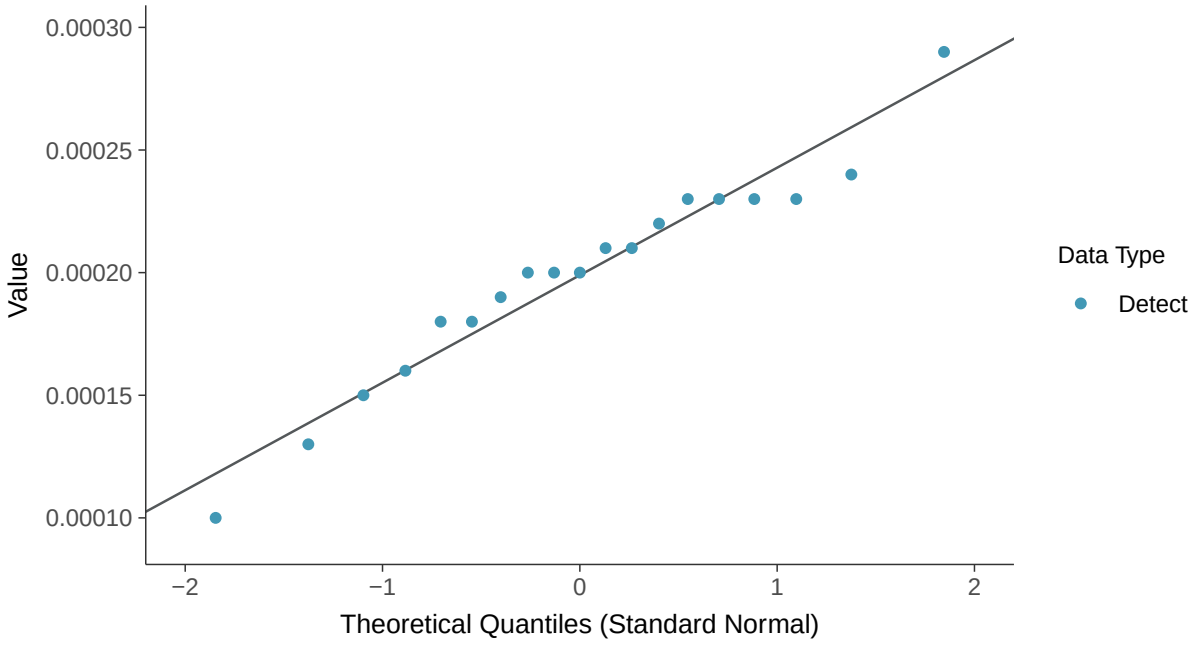
Boxplot by Season

Arsenic, MW-07 (mg/L)



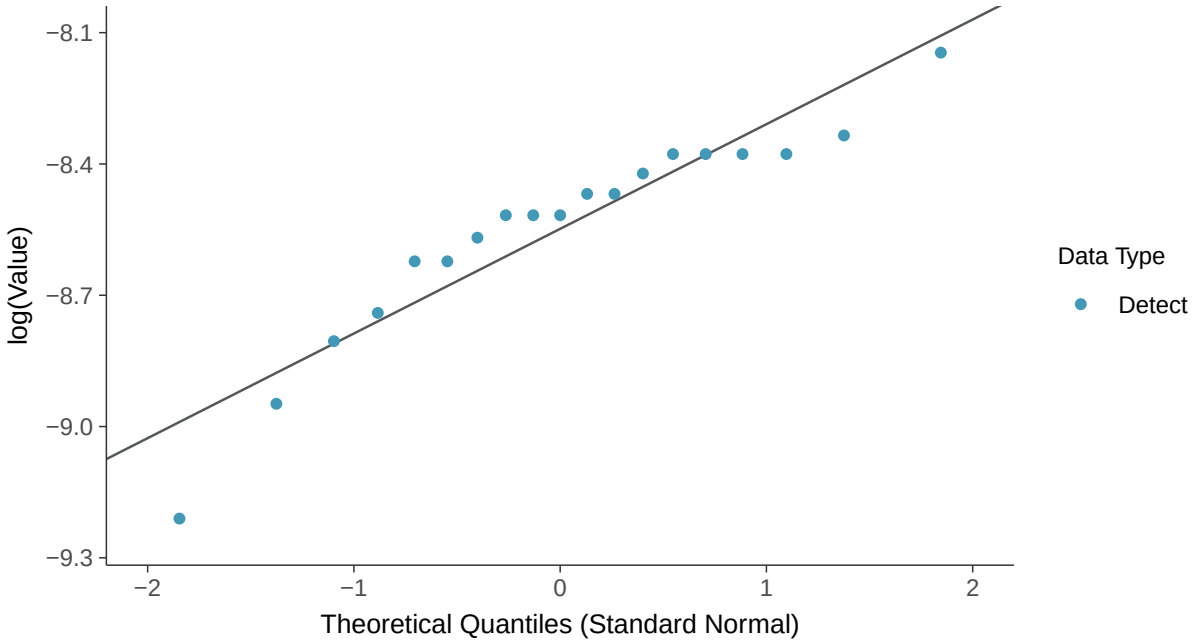
Normal Q-Q plot

Arsenic, MW-07 (mg/L)



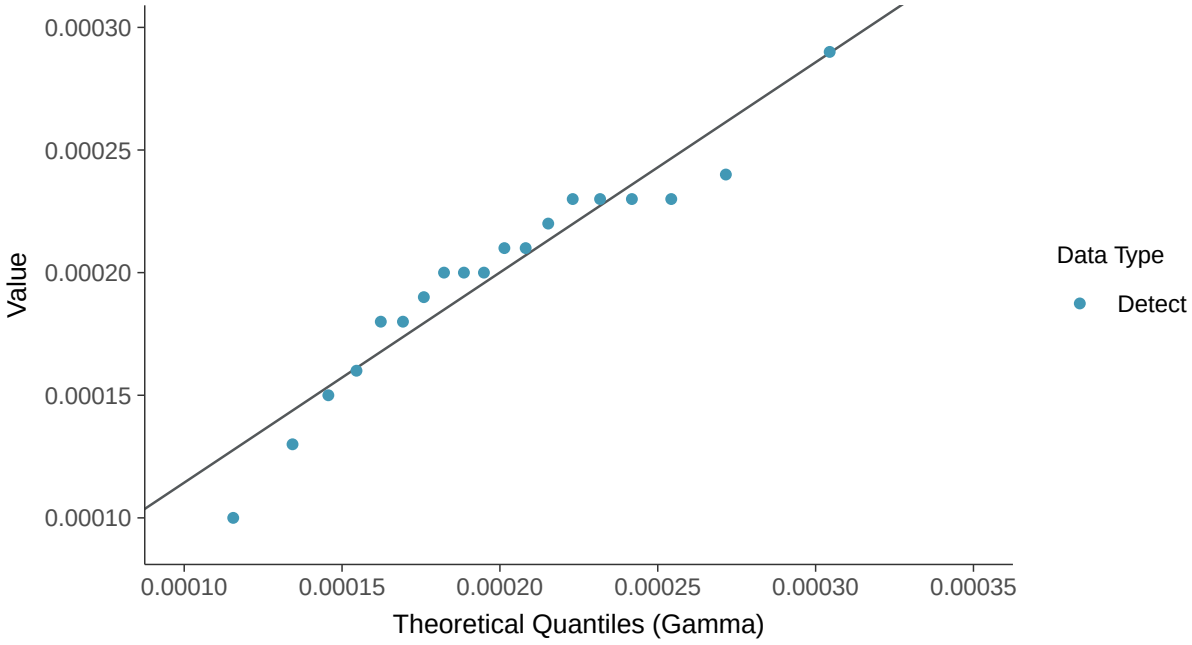
Lognormal Q-Q plot

Arsenic, MW-07 (mg/L)



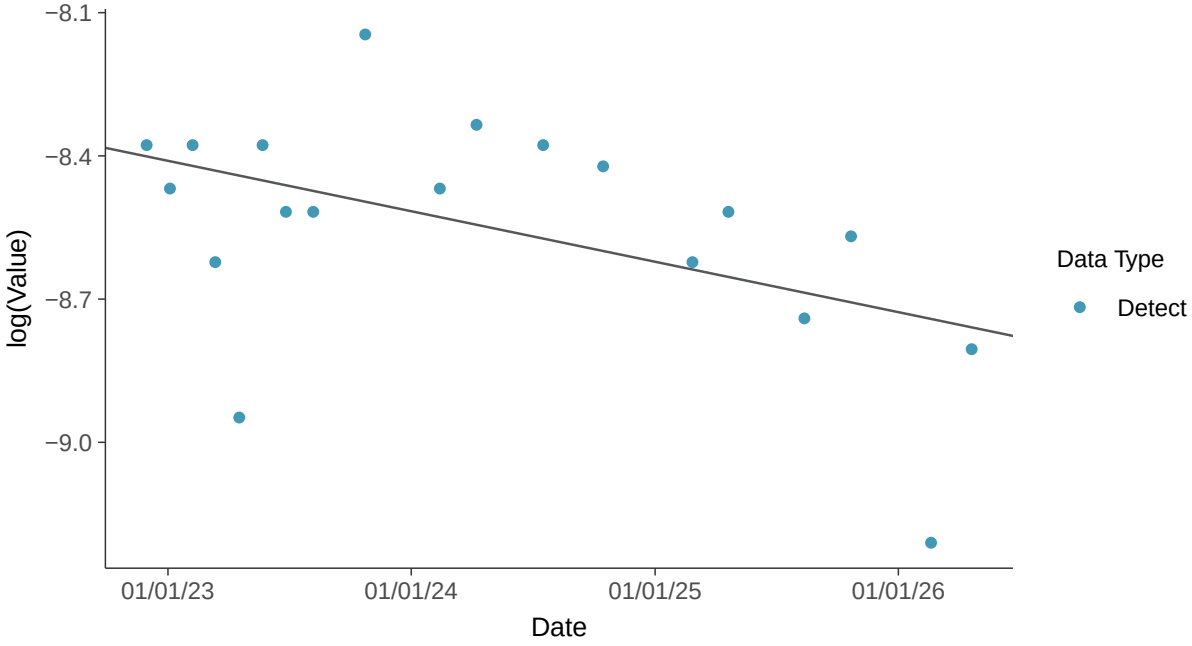
Gamma Q-Q plot

Arsenic, MW-07 (mg/L)



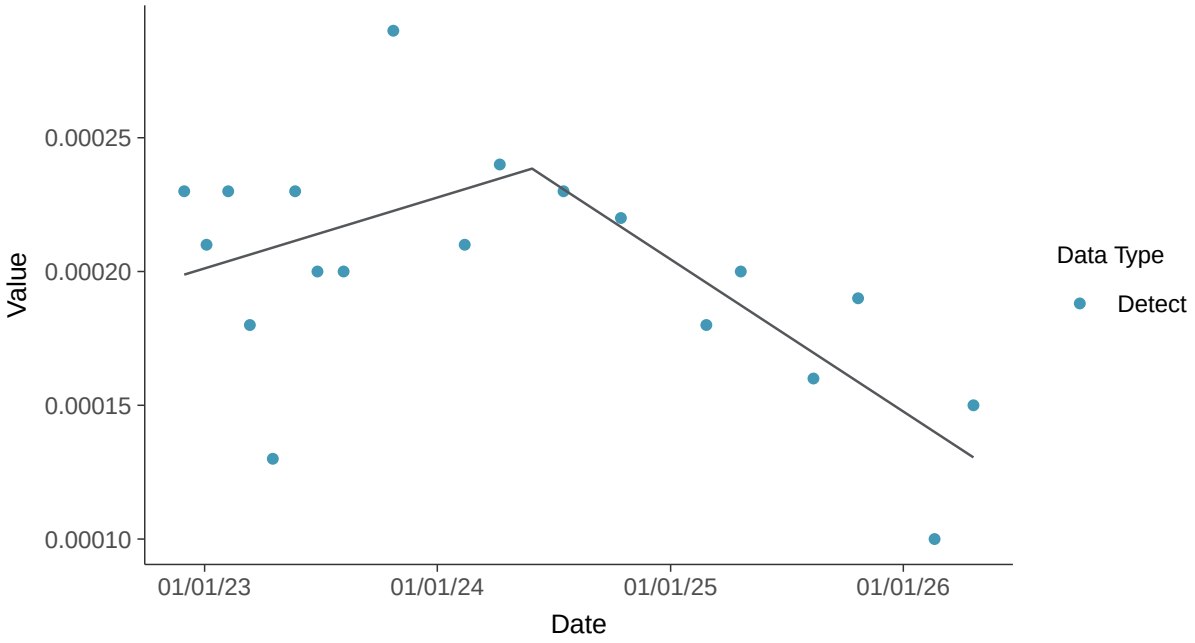
Trend Regression: Lognormal MLE

Arsenic, MW-07 (mg/L)



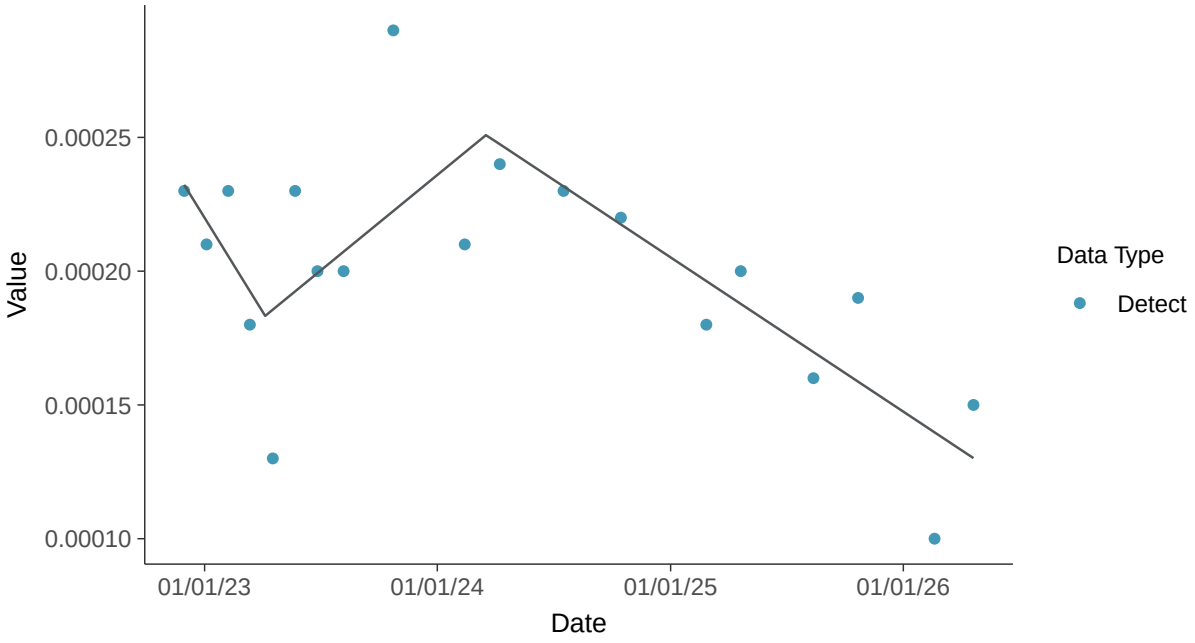
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-07 (mg/L)

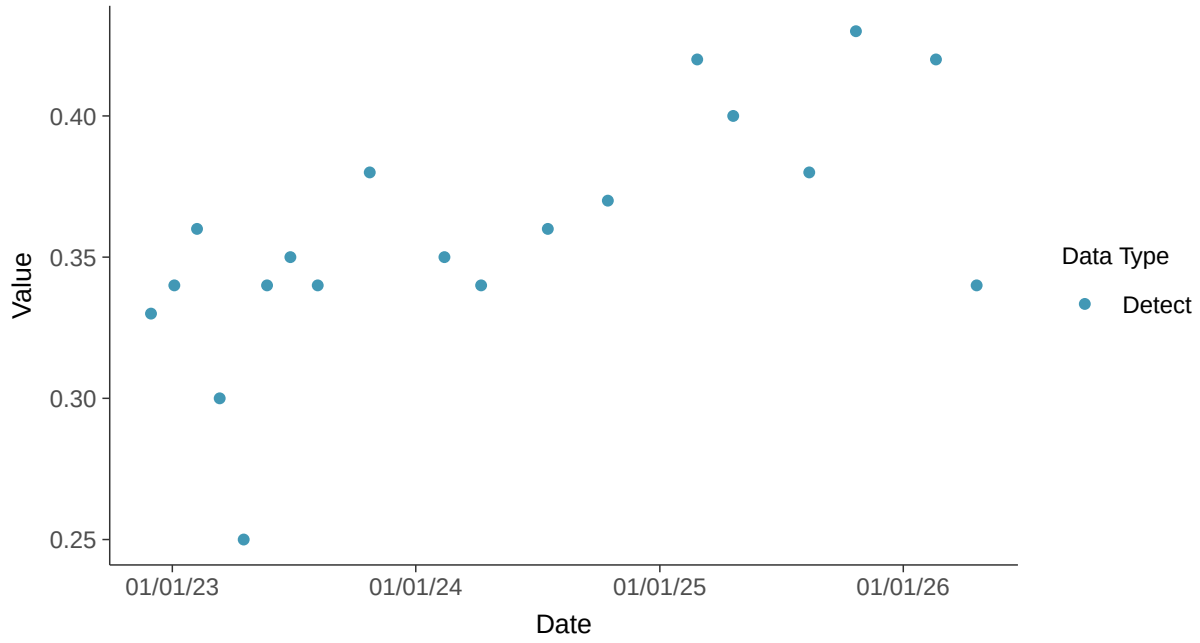


Appendix IV: Barium, MW-07

ID: 17_1_4_103

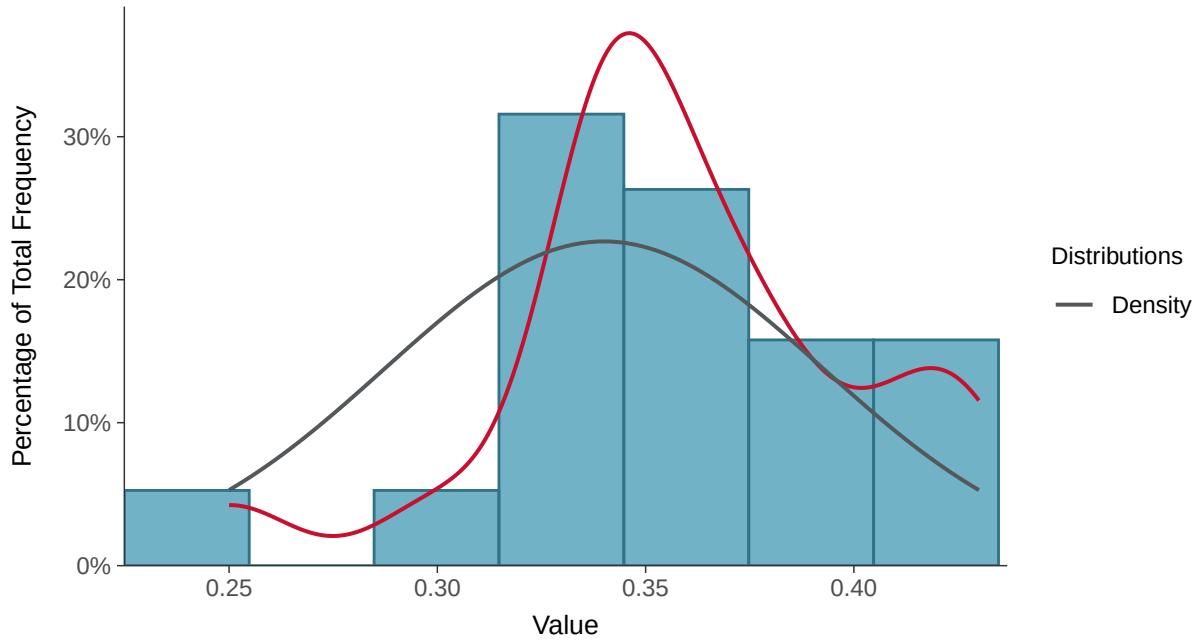
Scatter Plot

Barium, MW-07 (mg/L)



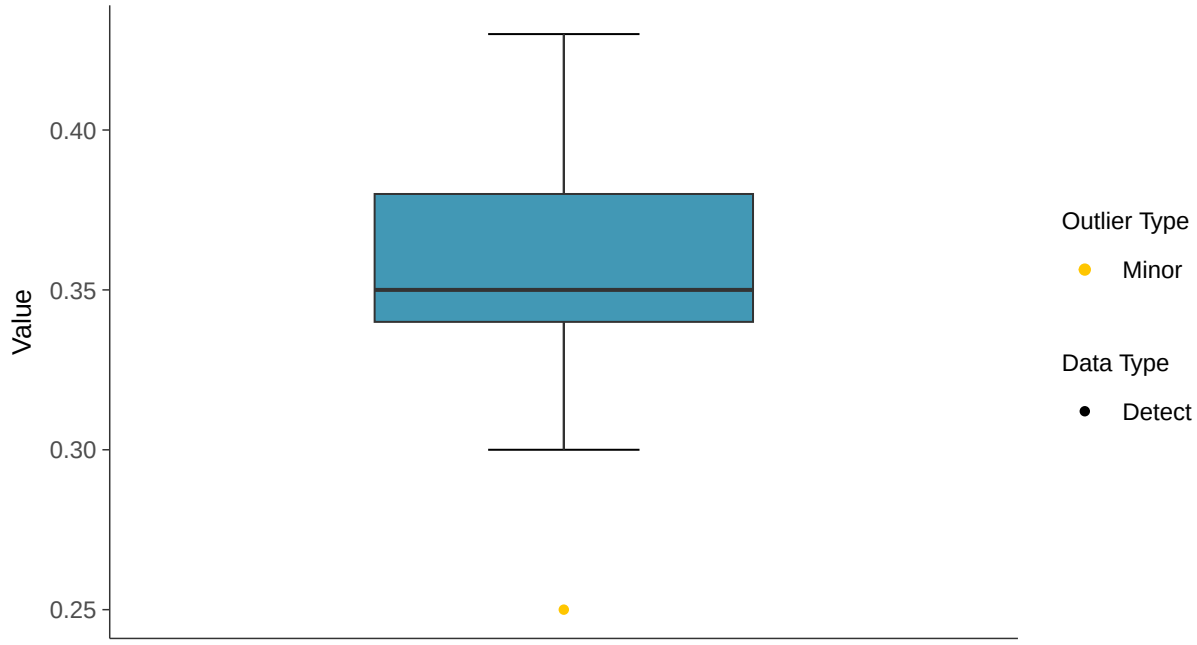
Histogram

Barium, MW-07 (mg/L)



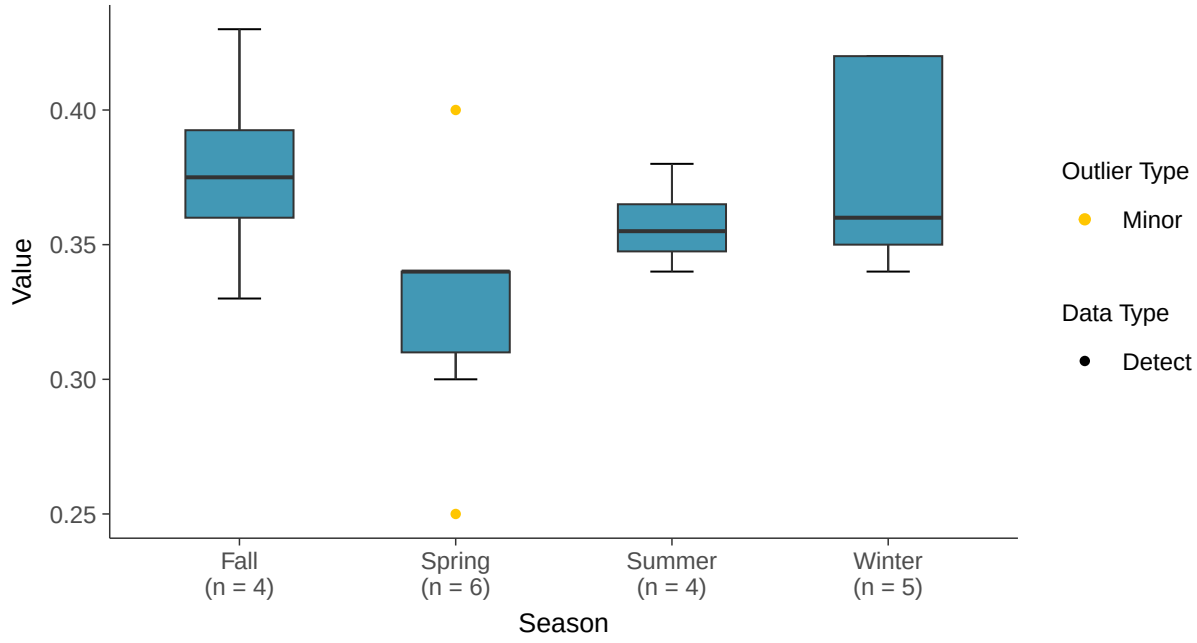
Boxplot

Barium, MW-07 (mg/L)



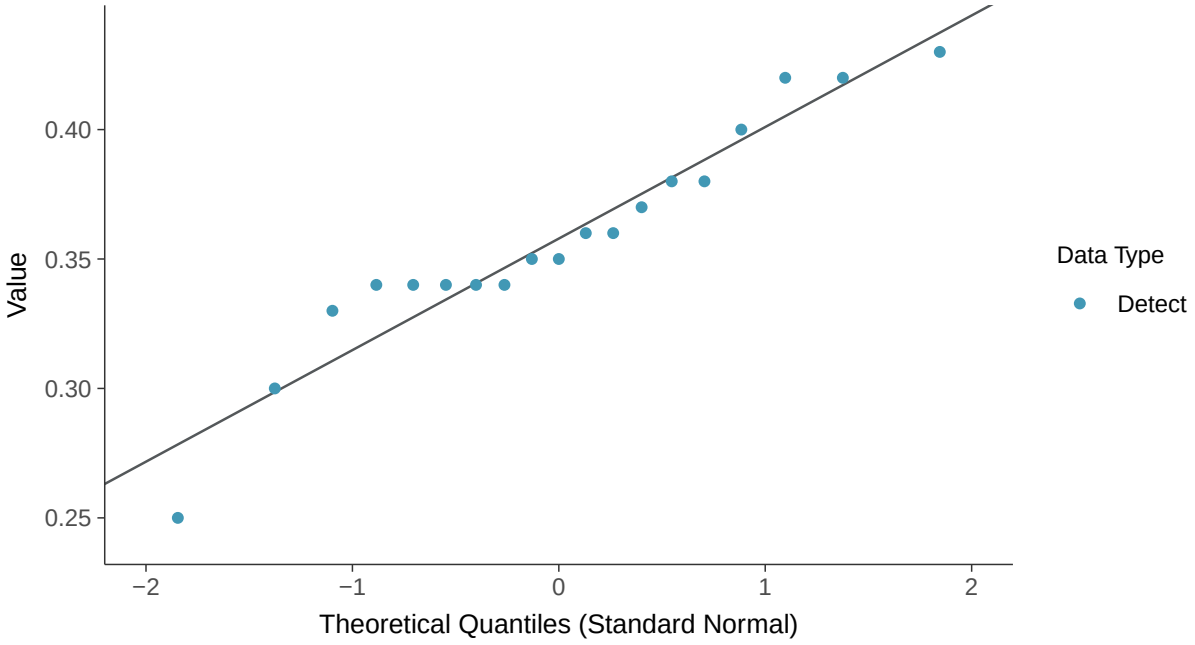
Boxplot by Season

Barium, MW-07 (mg/L)



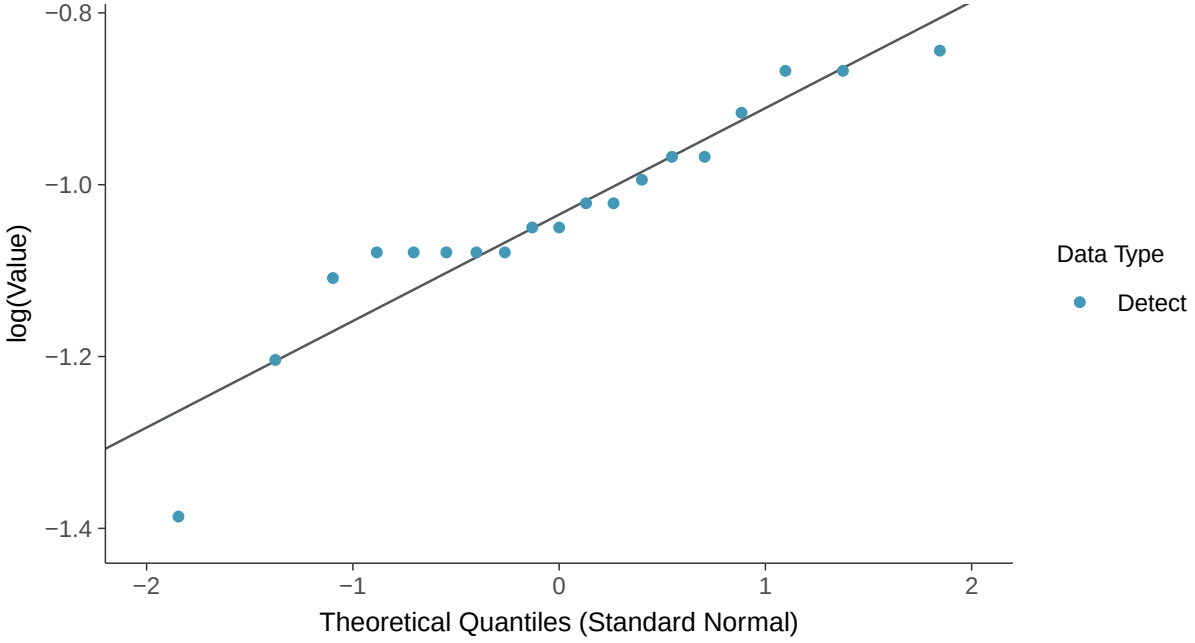
Normal Q-Q plot

Barium, MW-07 (mg/L)



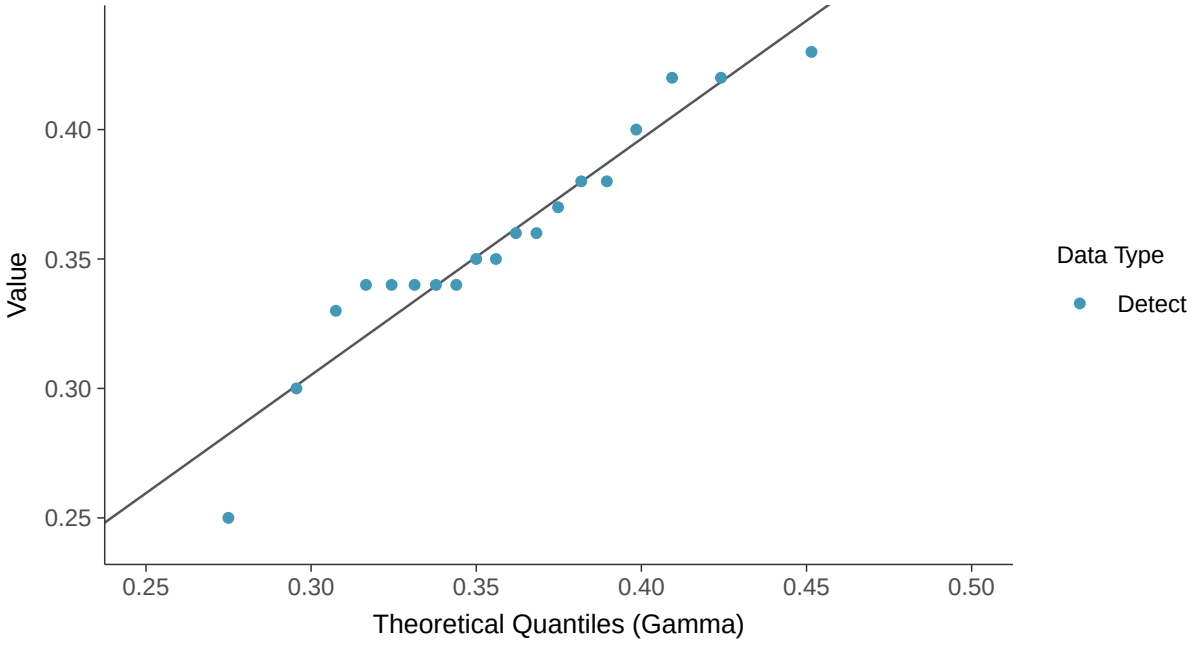
Lognormal Q-Q plot

Barium, MW-07 (mg/L)



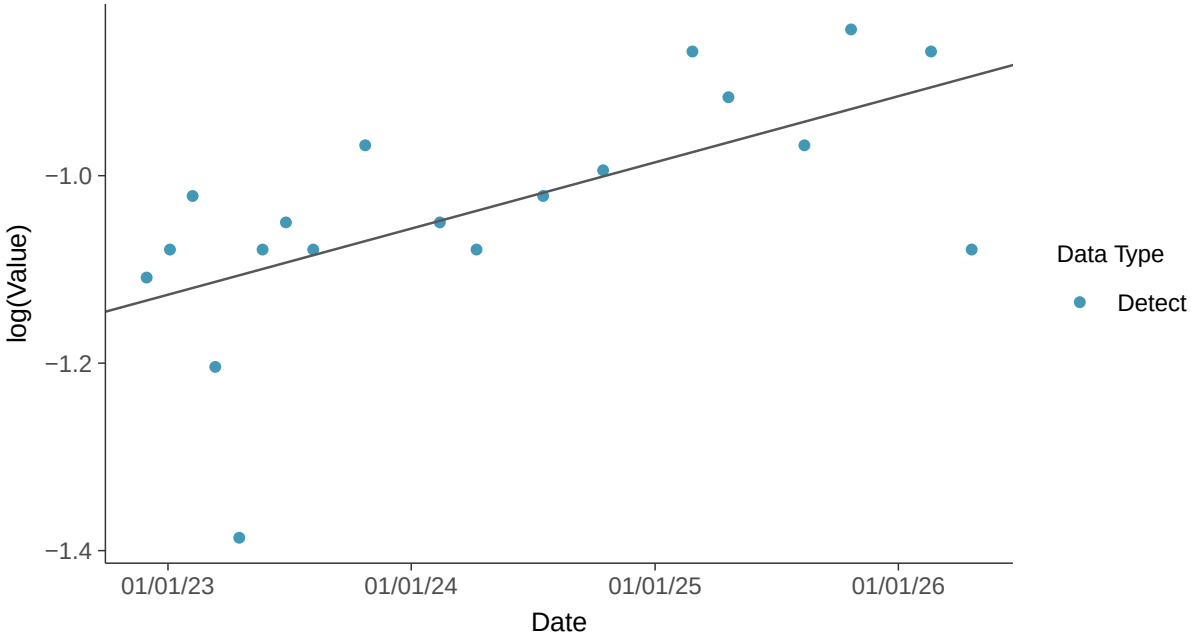
Gamma Q-Q plot

Barium, MW-07 (mg/L)



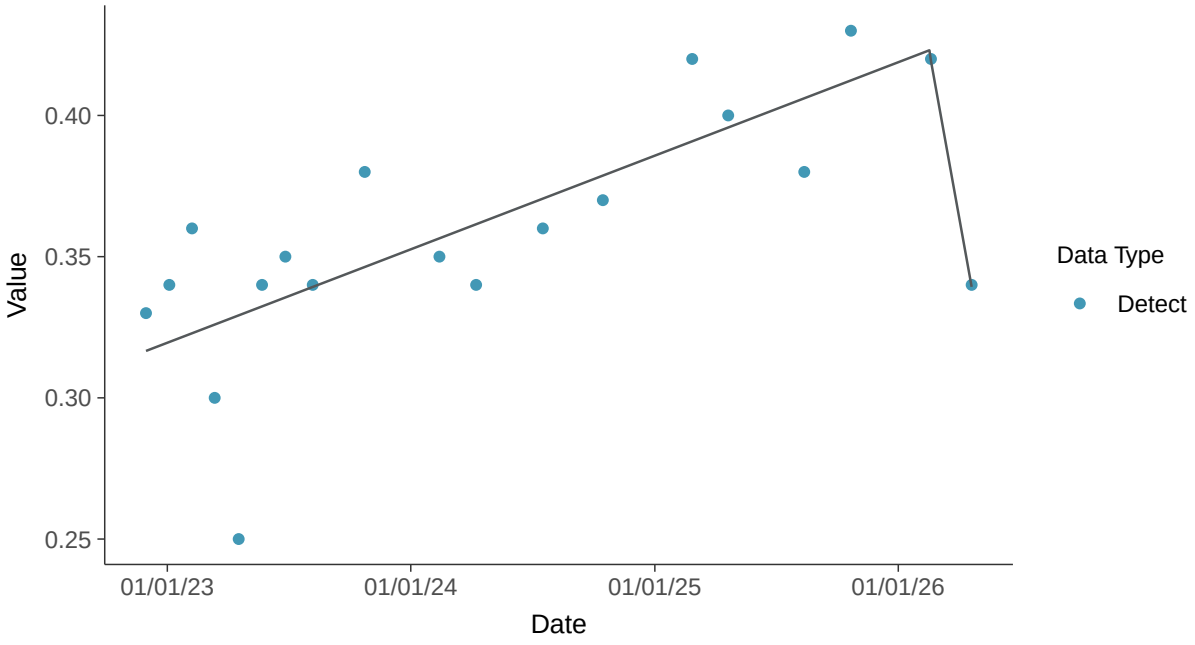
Trend Regression: Lognormal MLE

Barium, MW-07 (mg/L)



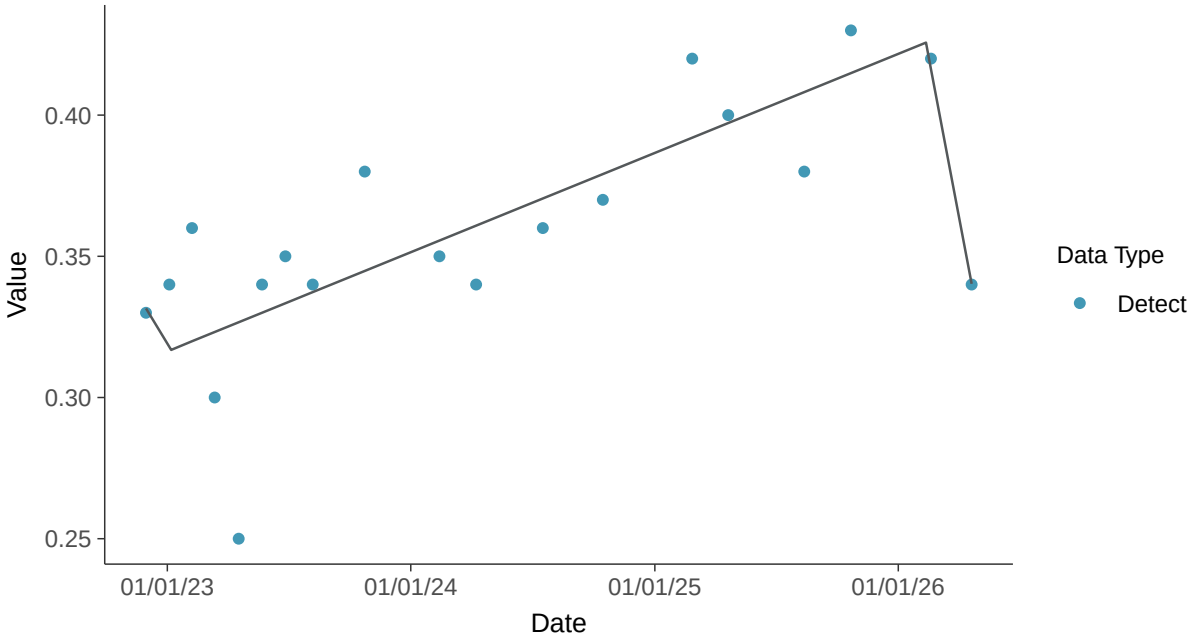
Trend Regression: Piecewise Linear-Linear

Barium, MW-07 (mg/L)



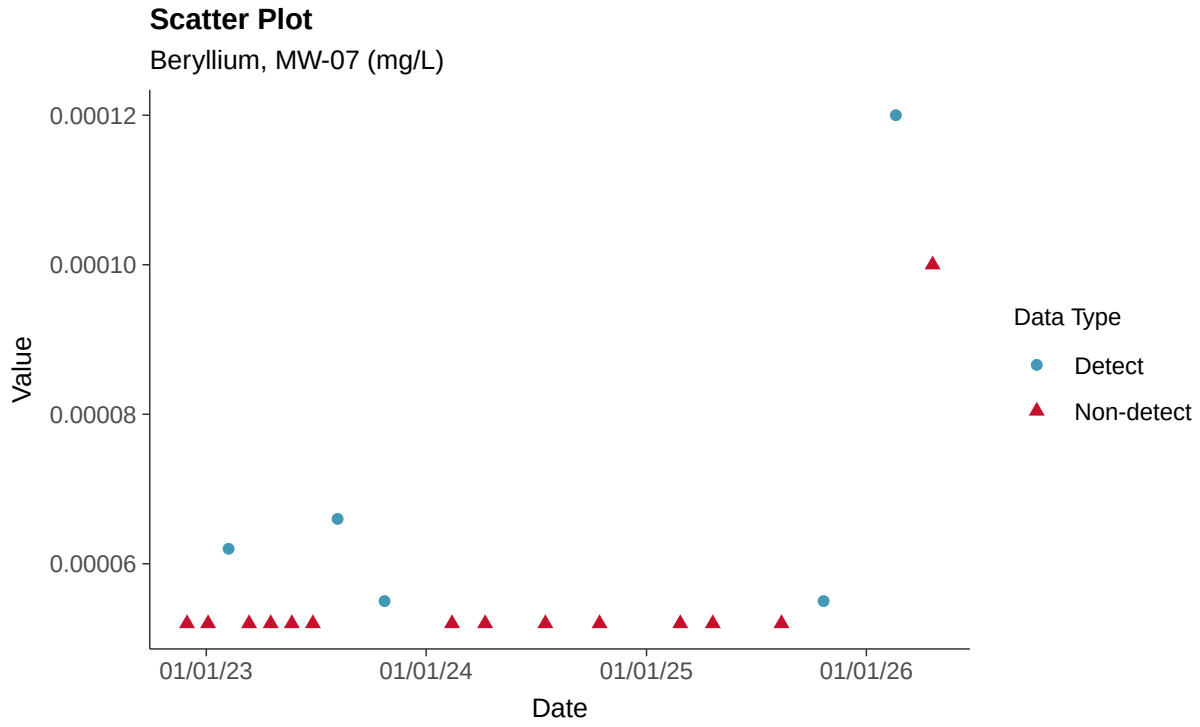
Trend Regression: Piecewise Linear-Linear-Linear

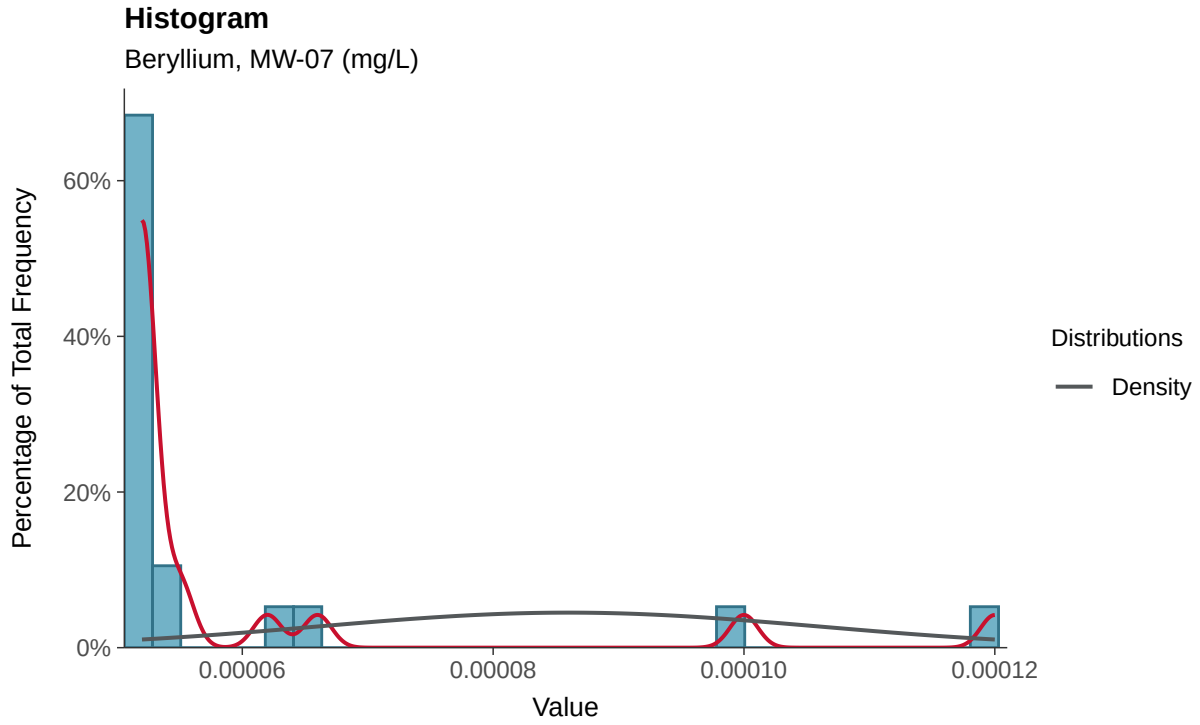
Barium, MW-07 (mg/L)



Appendix IV: Beryllium, MW-07

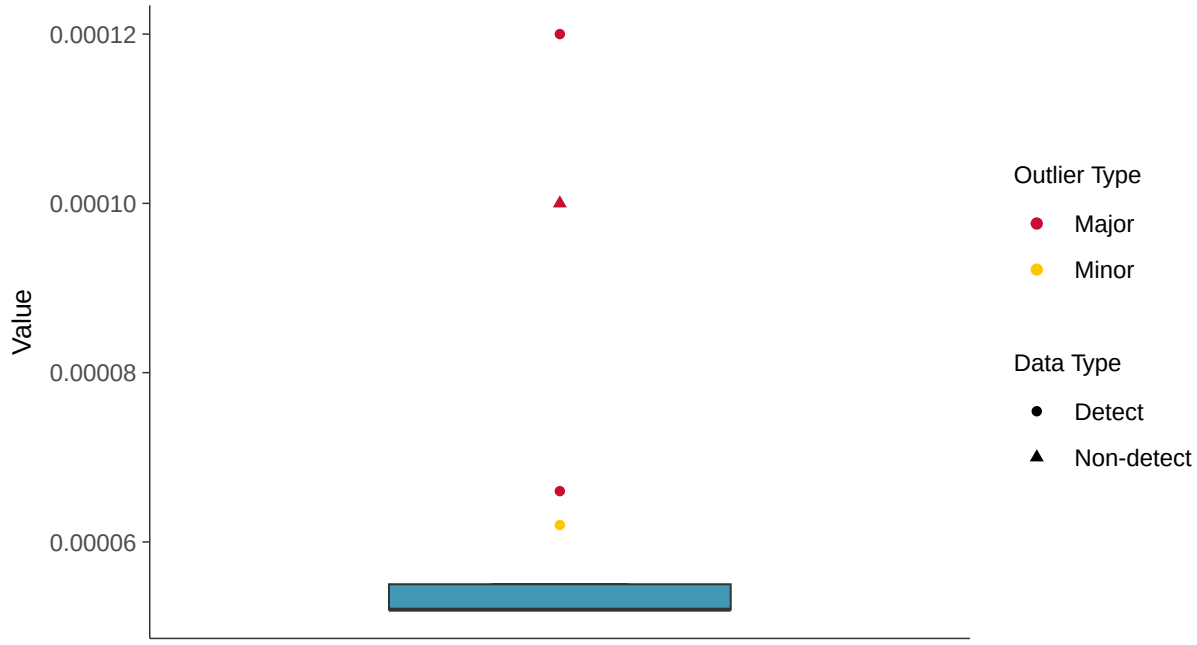
ID: 17_1_4_104





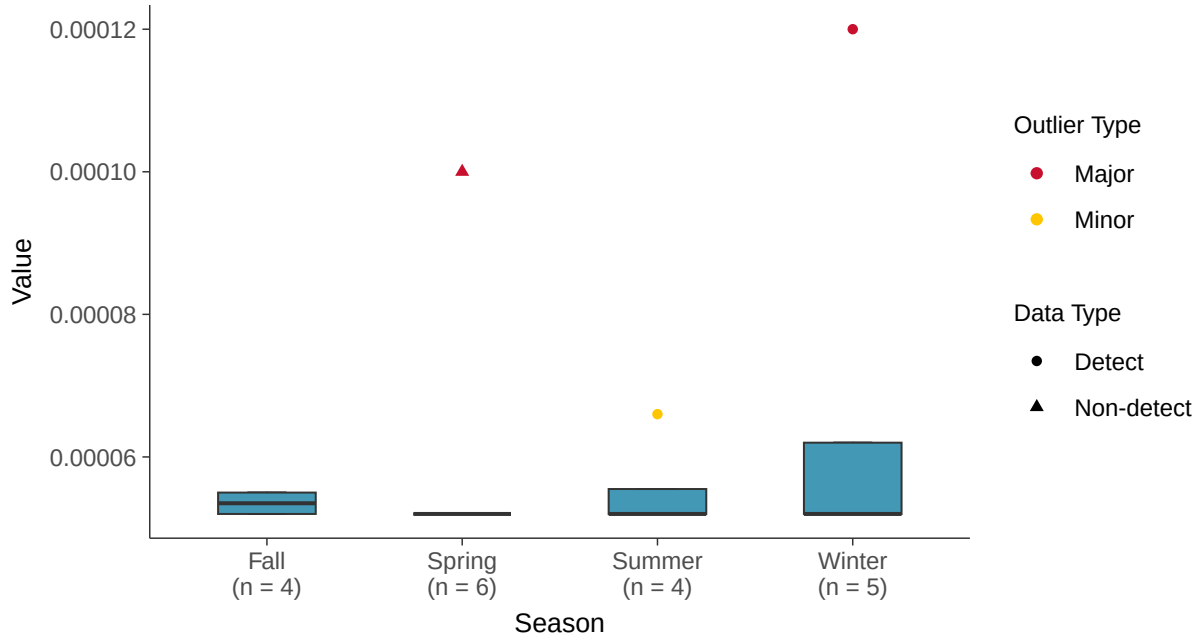
Boxplot

Beryllium, MW-07 (mg/L)



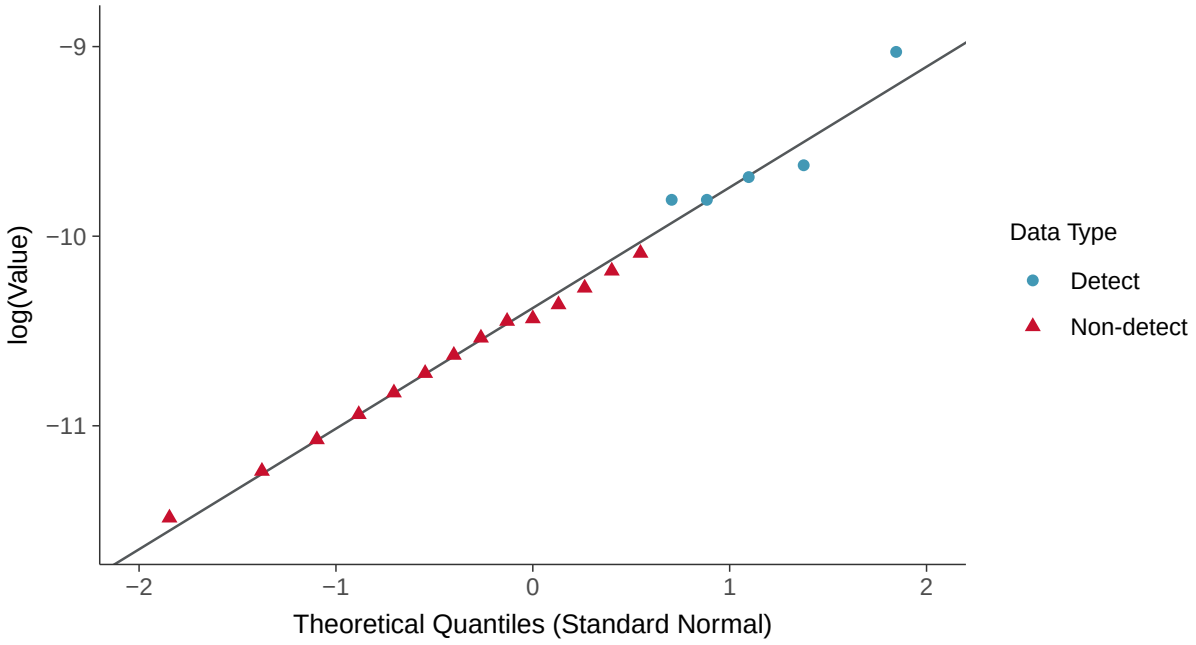
Boxplot by Season

Beryllium, MW-07 (mg/L)



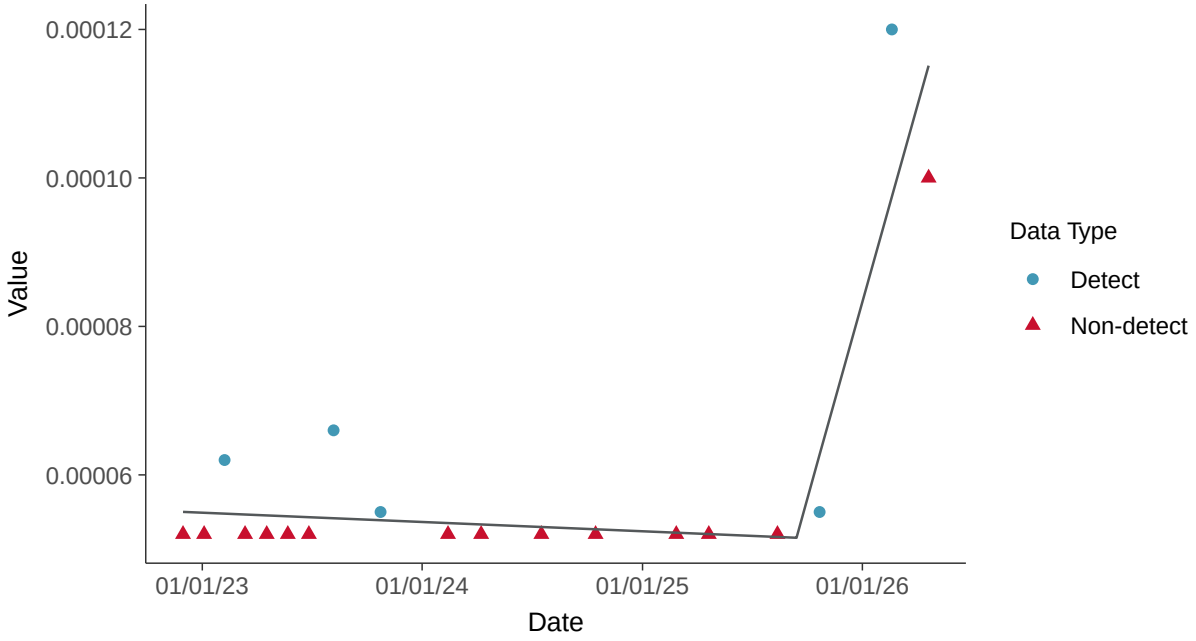
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-07 (mg/L)



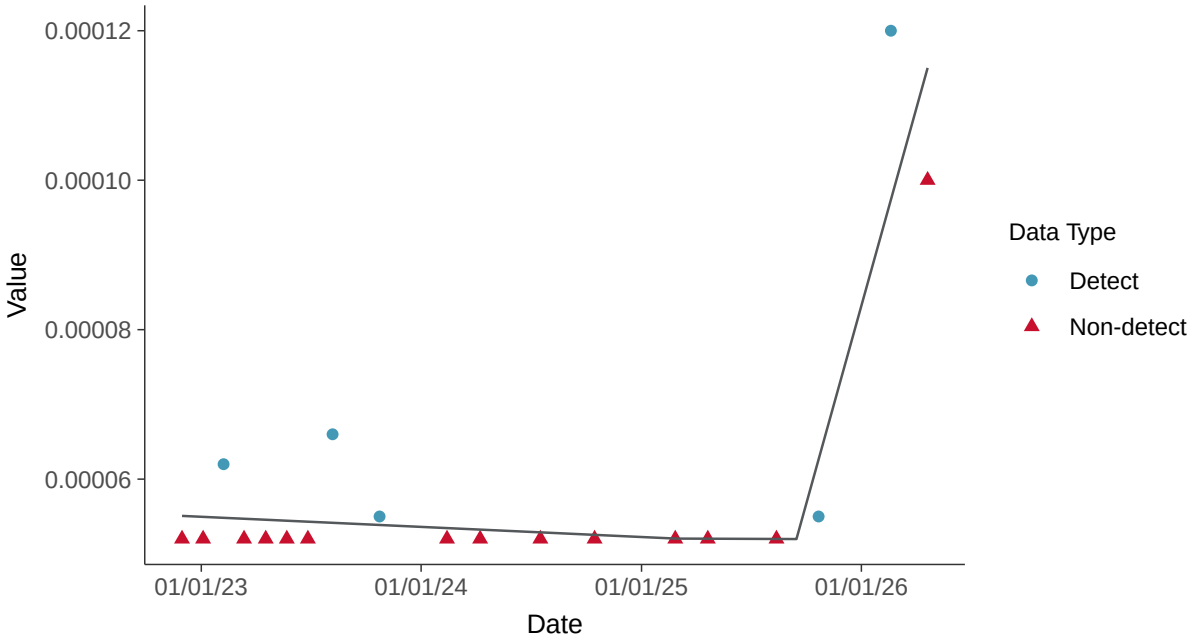
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Beryllium, MW-07 (mg/L)

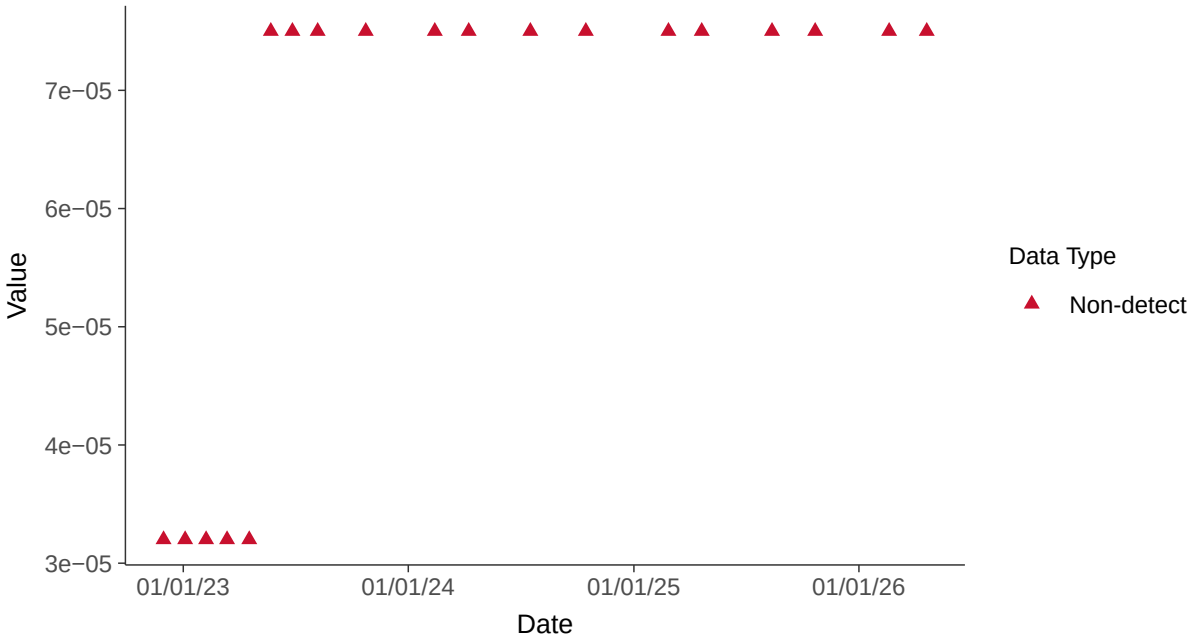


Appendix IV: Cadmium, MW-07

ID: 17_1_4_106

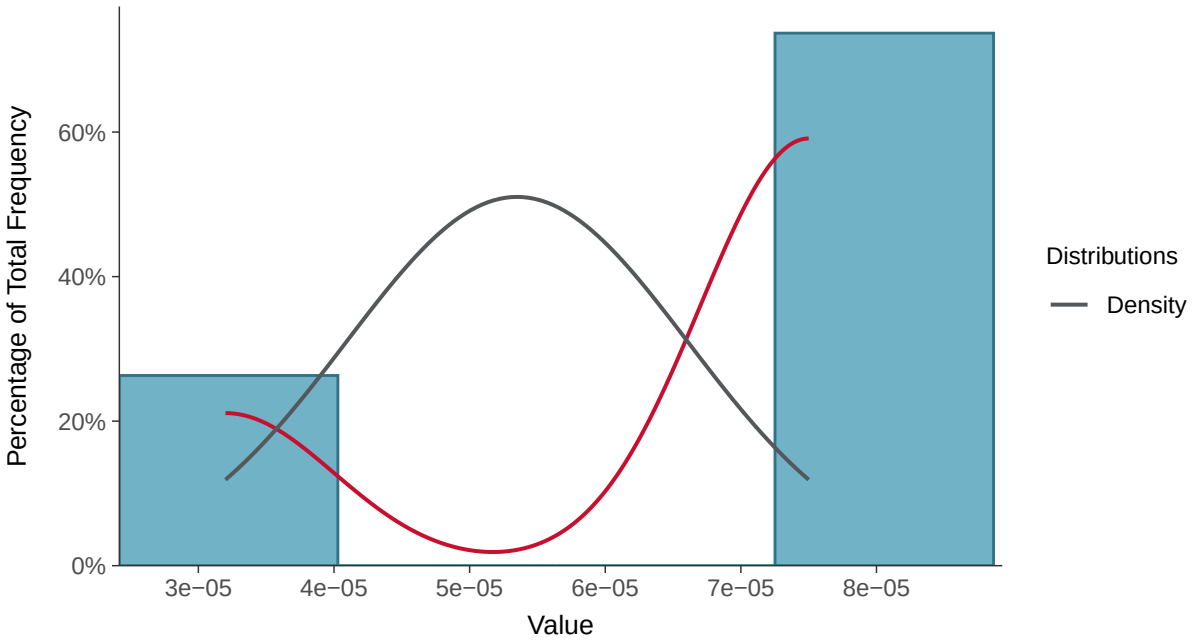
Scatter Plot

Cadmium, MW-07 (mg/L)



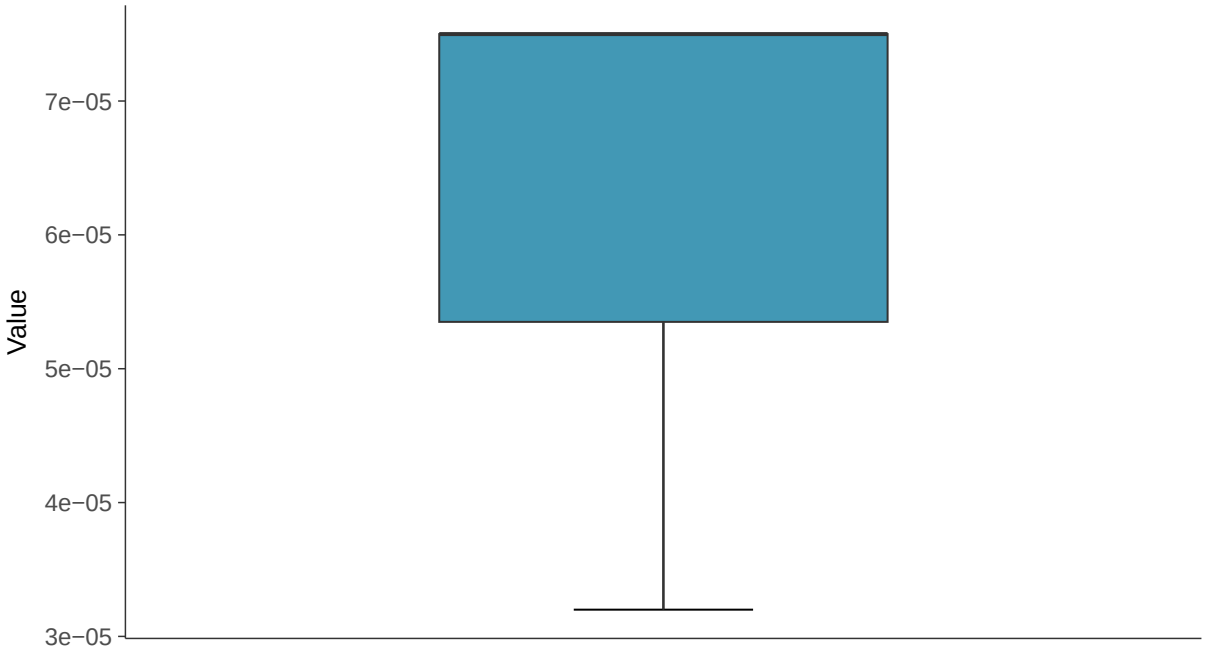
Histogram

Cadmium, MW-07 (mg/L)



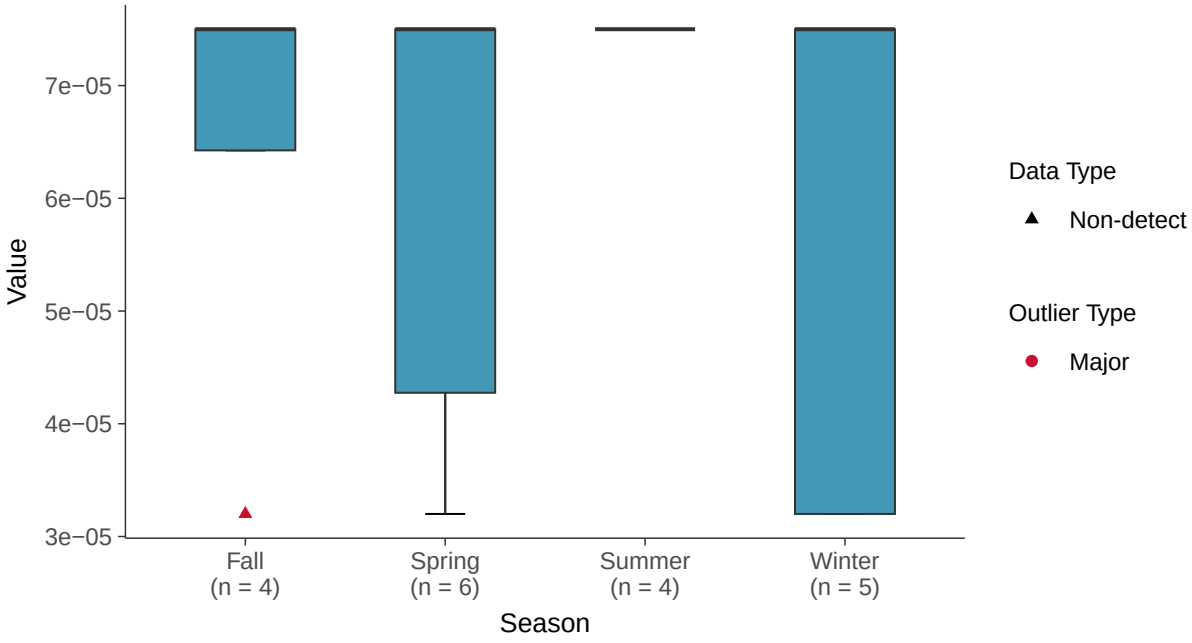
Boxplot

Cadmium, MW-07 (mg/L)



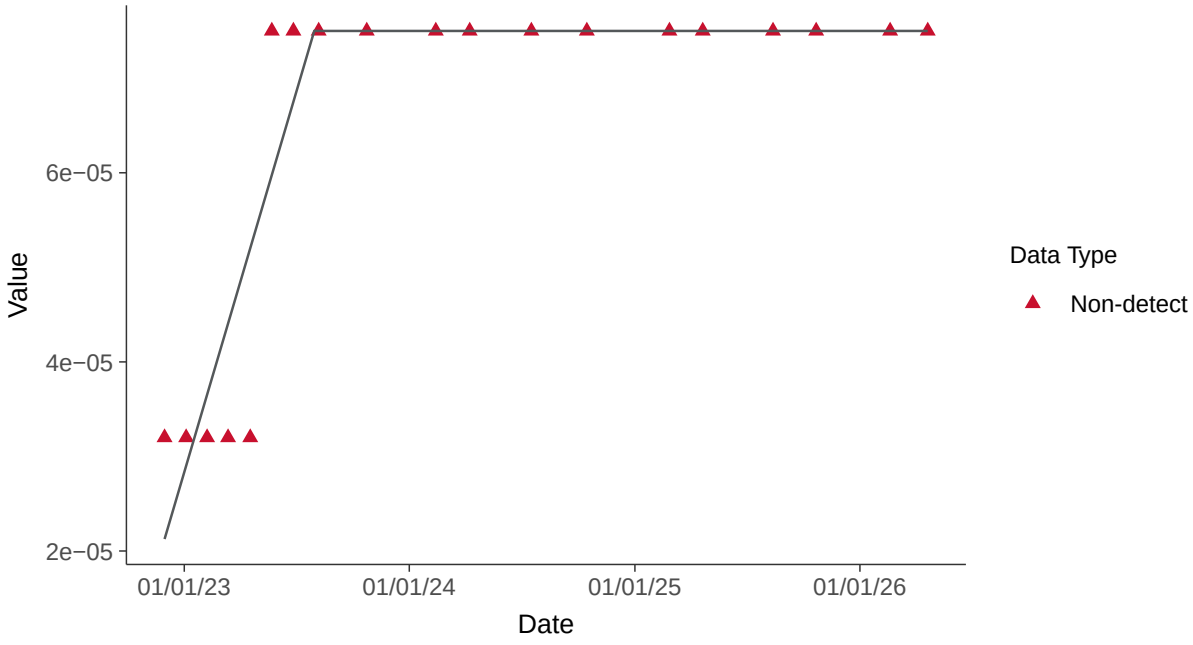
Boxplot by Season

Cadmium, MW-07 (mg/L)



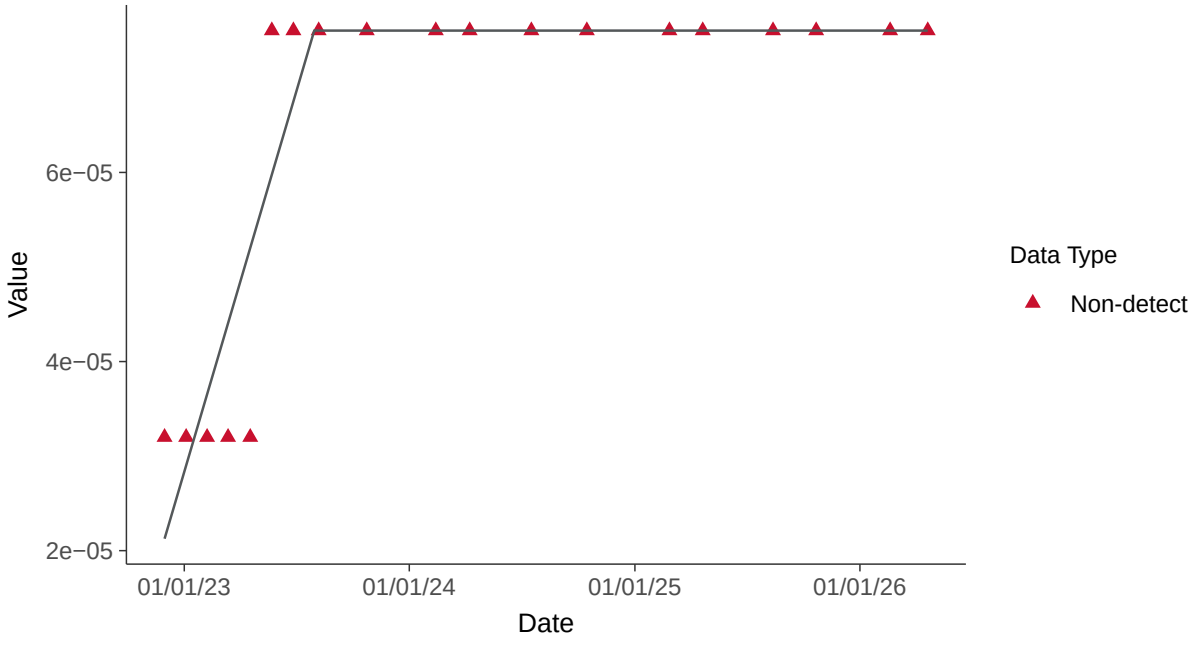
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-07 (mg/L)

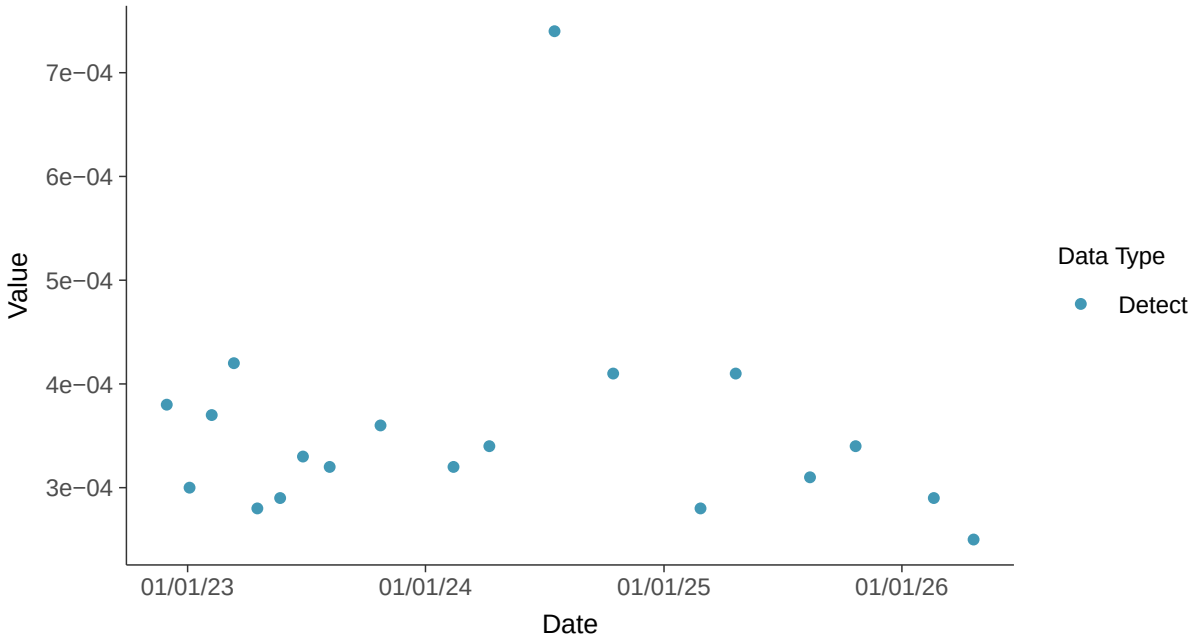


Appendix IV: Chromium, Total, MW-07

ID: 17_1_4_109

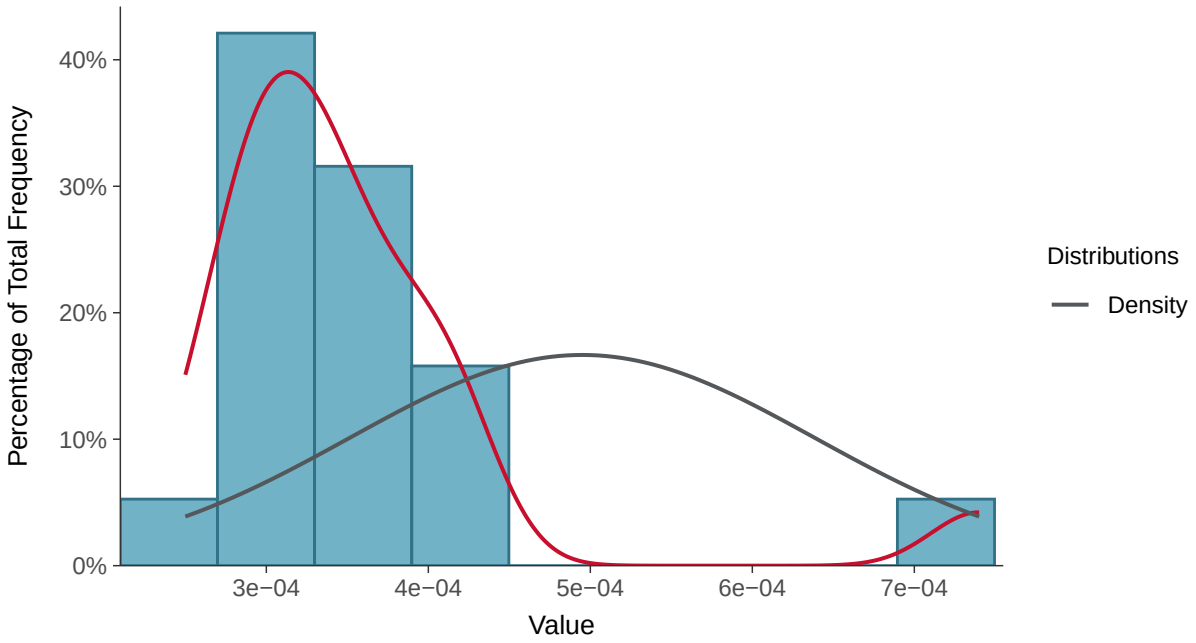
Scatter Plot

Chromium, Total, MW-07 (mg/L)



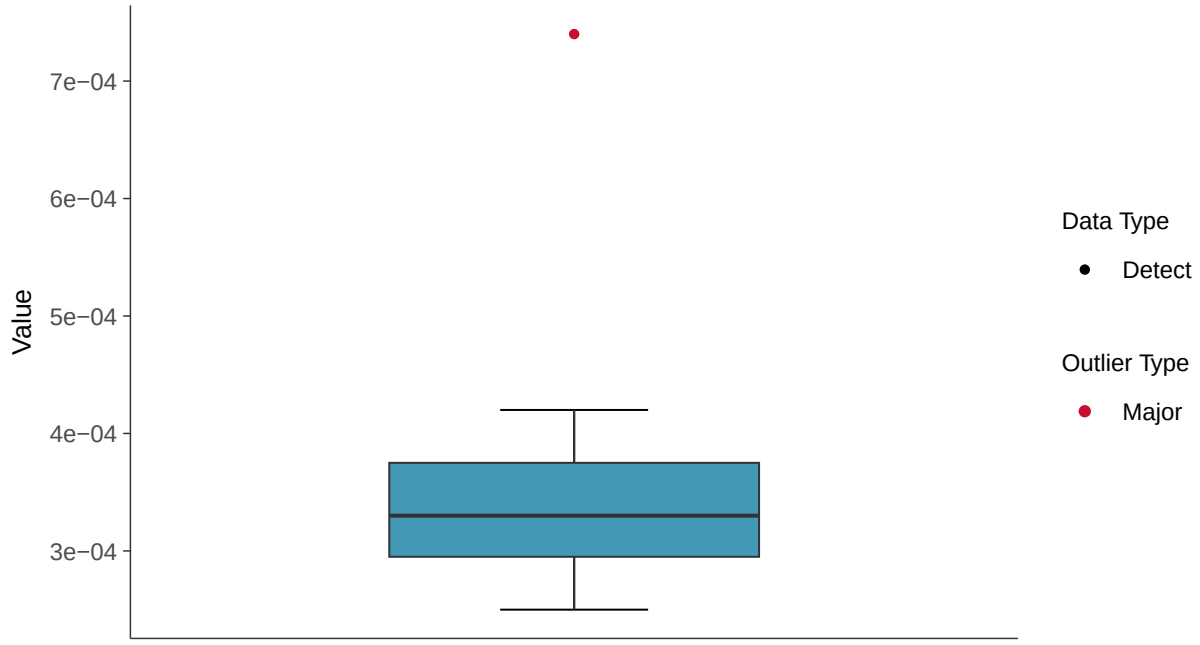
Histogram

Chromium, Total, MW-07 (mg/L)



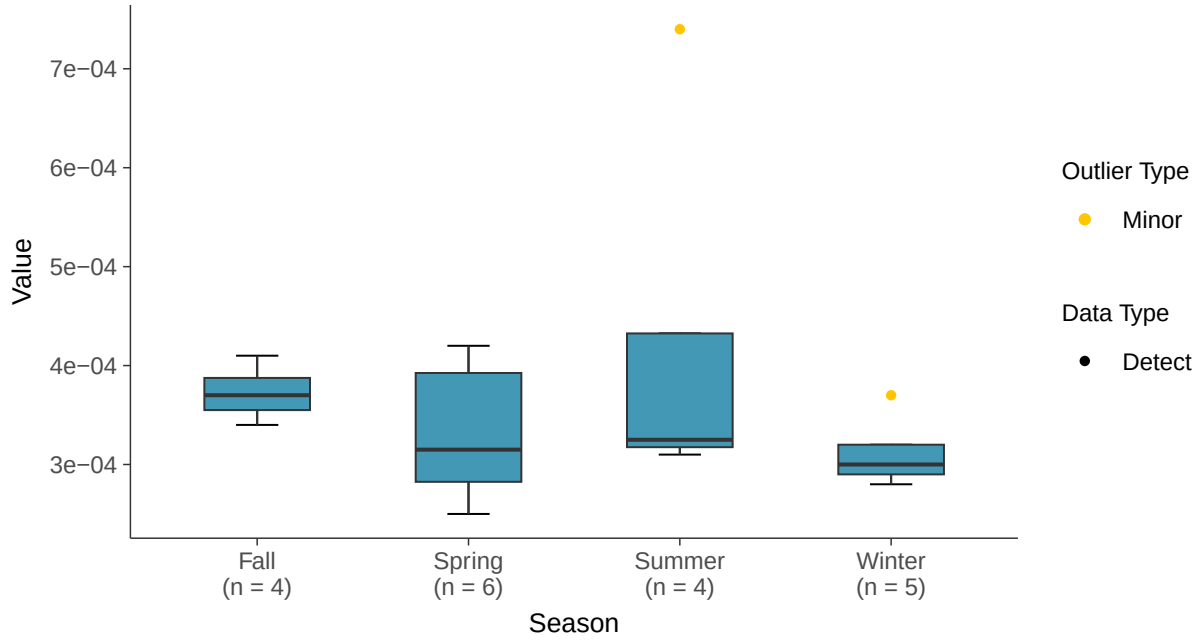
Boxplot

Chromium, Total, MW-07 (mg/L)



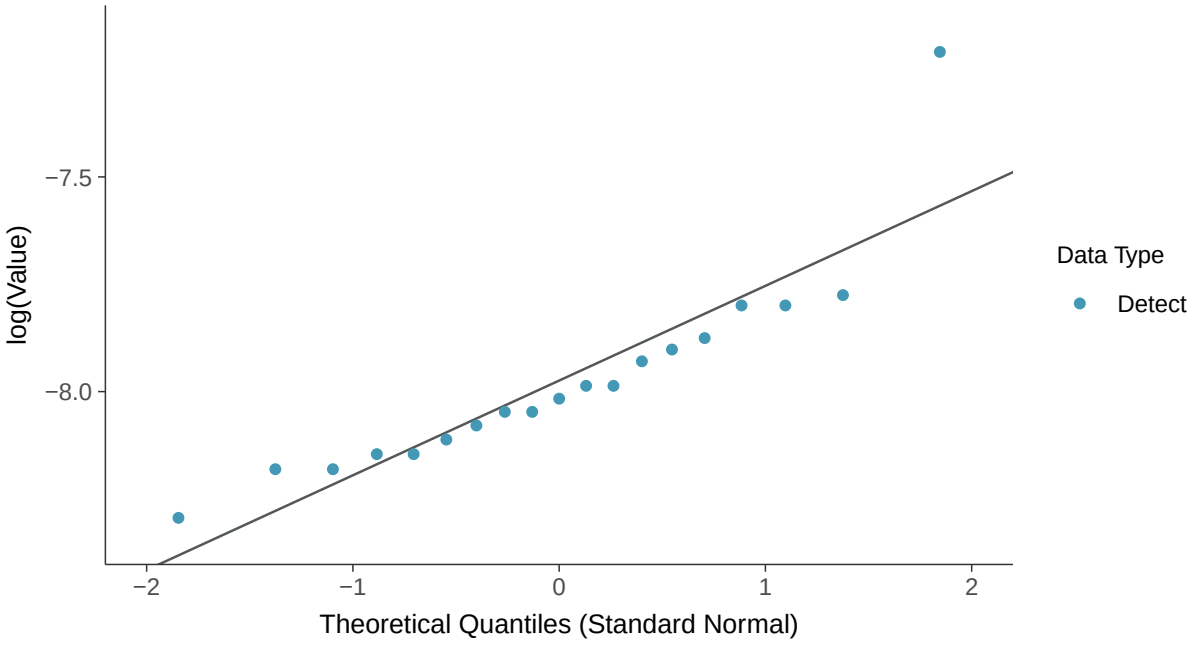
Boxplot by Season

Chromium, Total, MW-07 (mg/L)



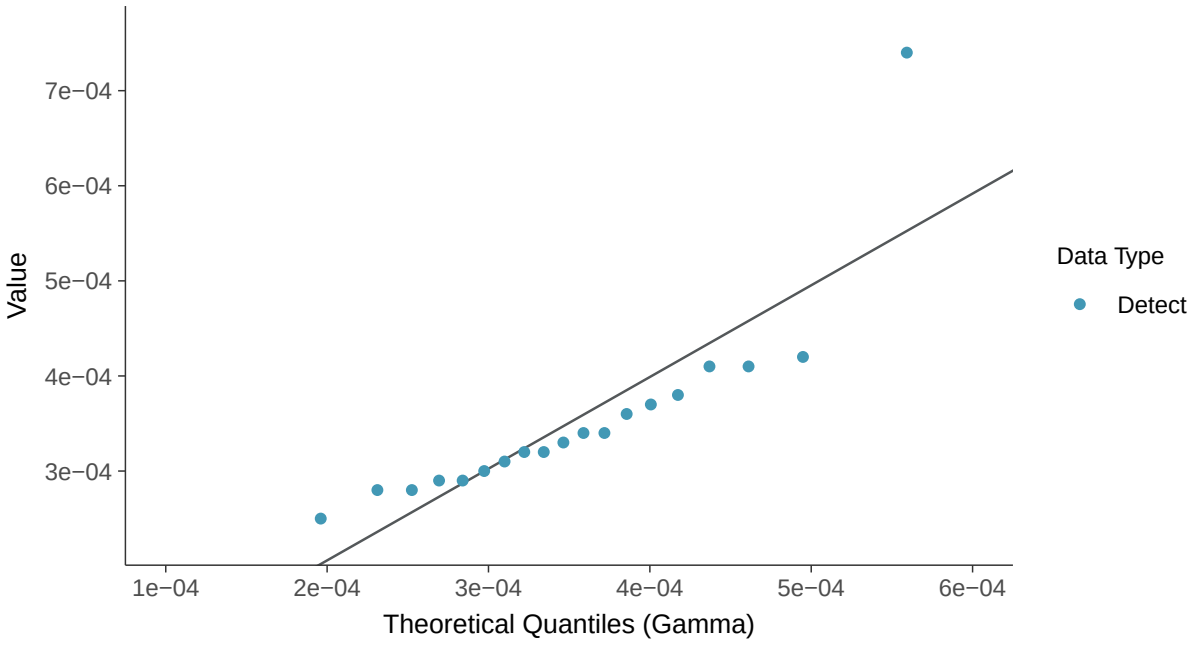
Lognormal Q-Q plot

Chromium, Total, MW-07 (mg/L)



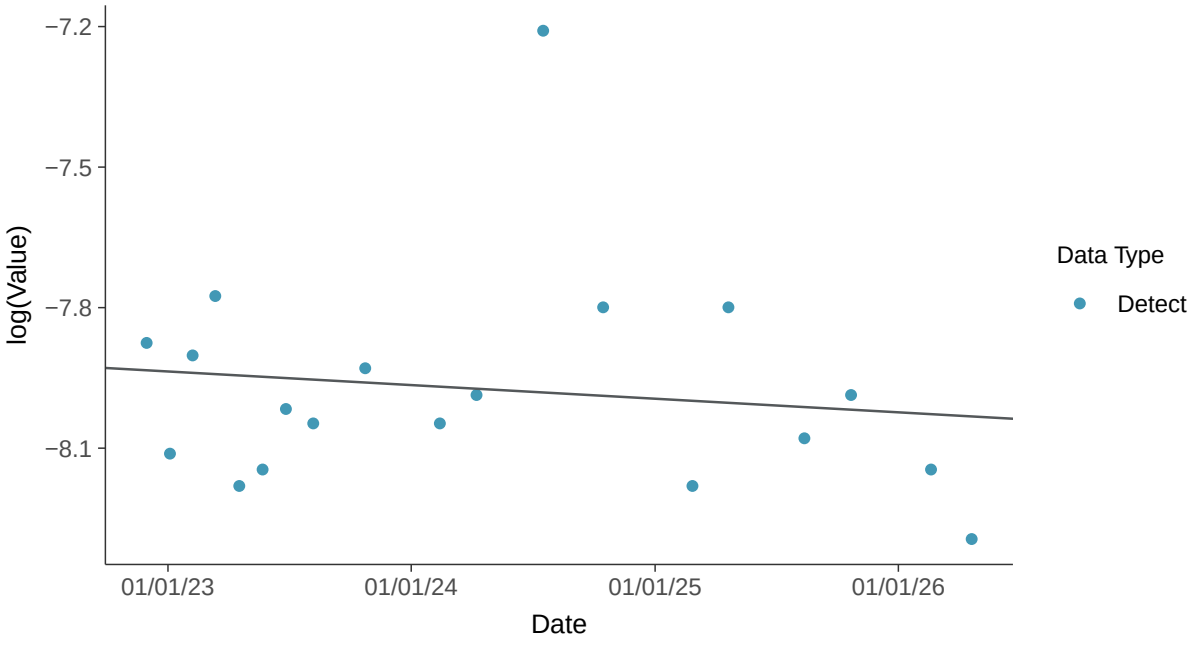
Gamma Q-Q plot

Chromium, Total, MW-07 (mg/L)



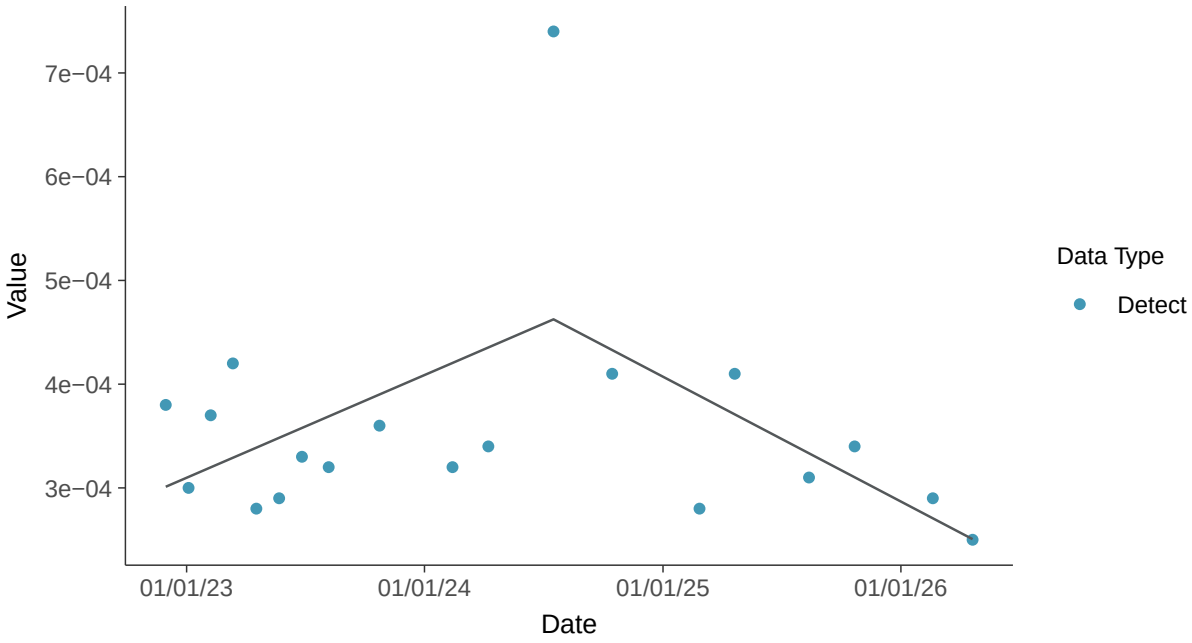
Trend Regression: Lognormal MLE

Chromium, Total, MW-07 (mg/L)



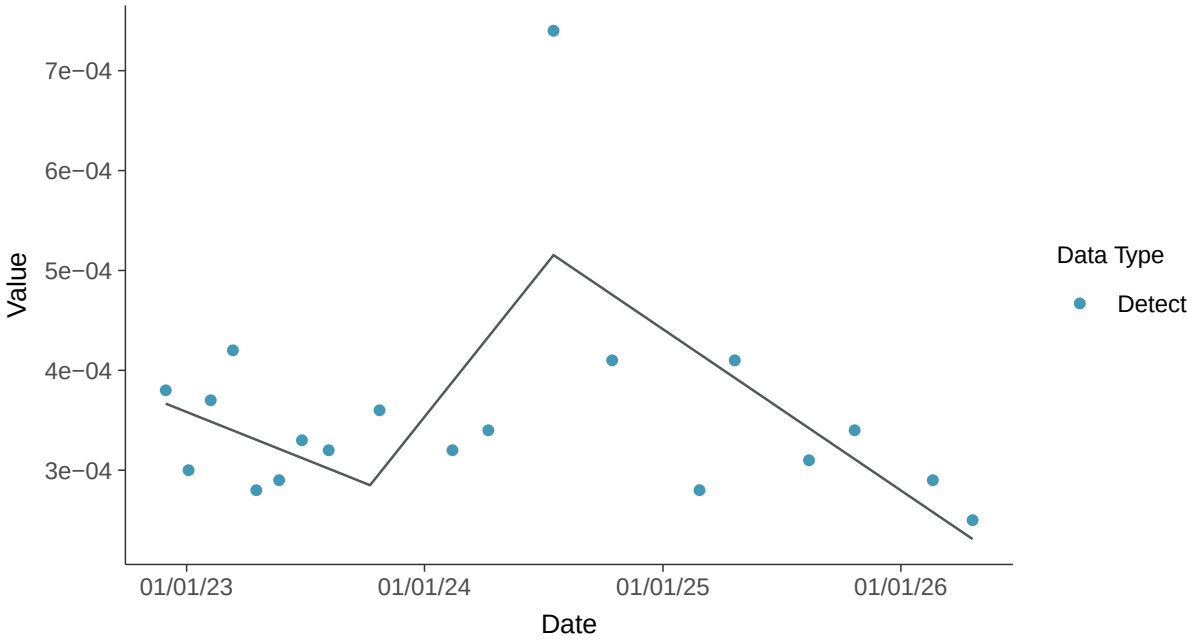
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-07 (mg/L)

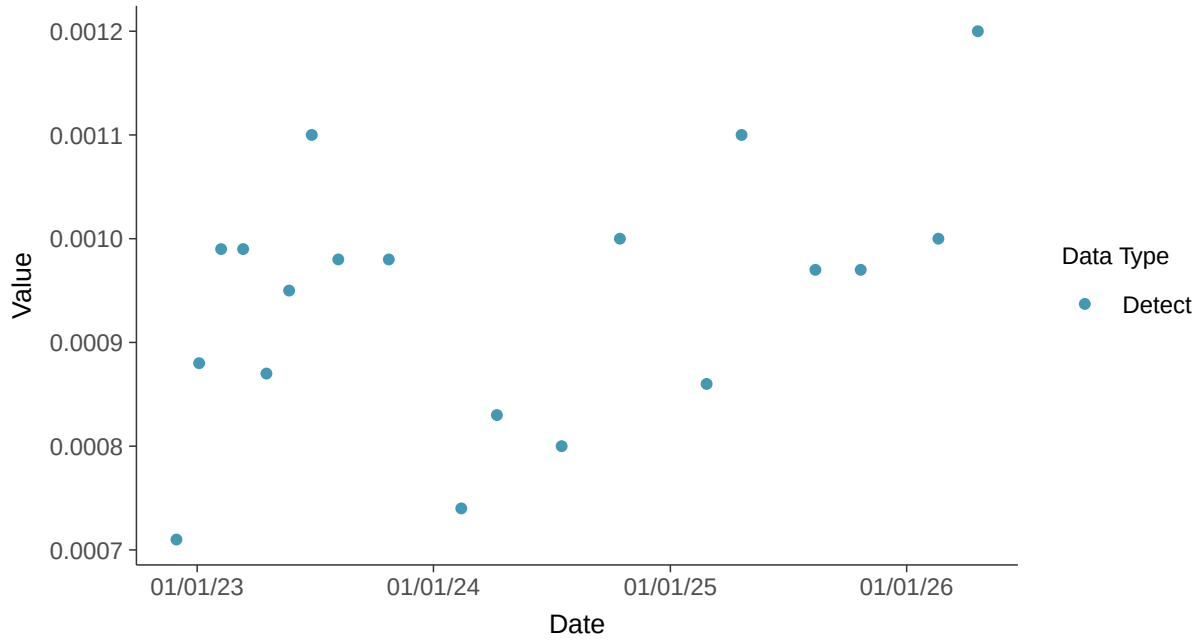


Appendix IV: Cobalt, MW-07

ID: 17_1_4_110

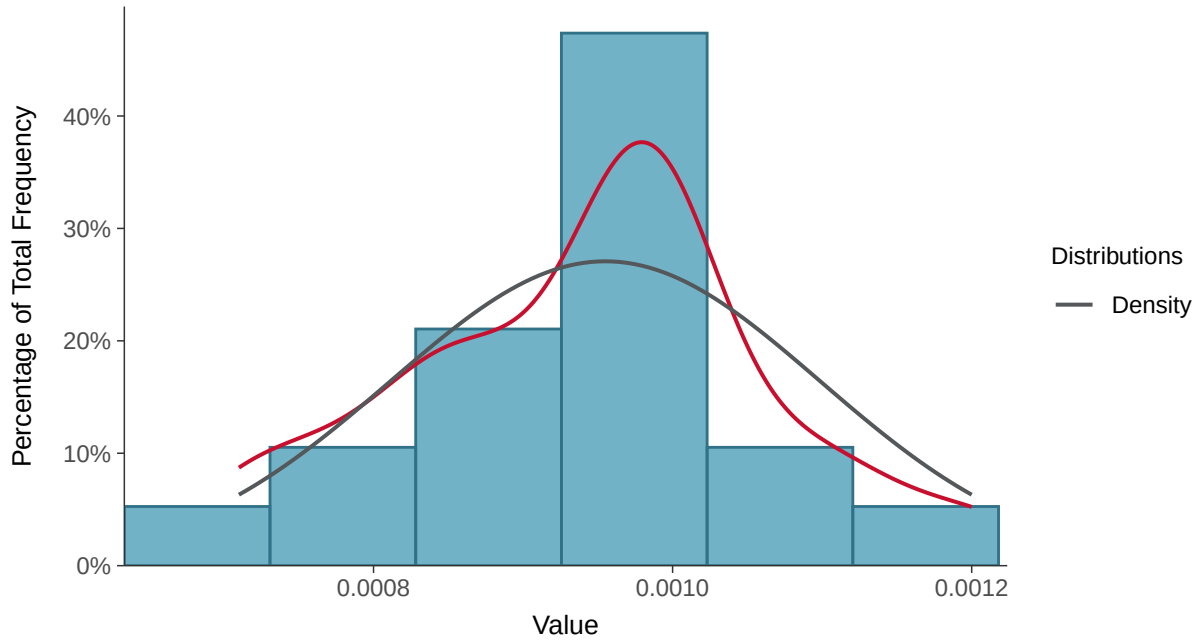
Scatter Plot

Cobalt, MW-07 (mg/L)



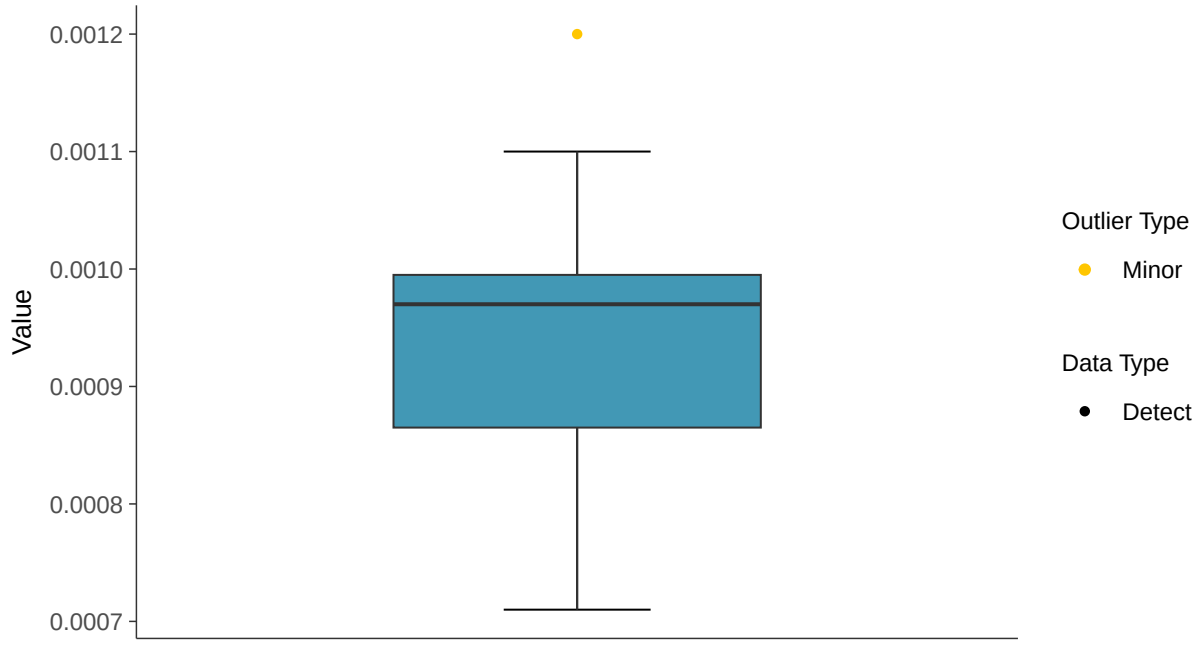
Histogram

Cobalt, MW-07 (mg/L)



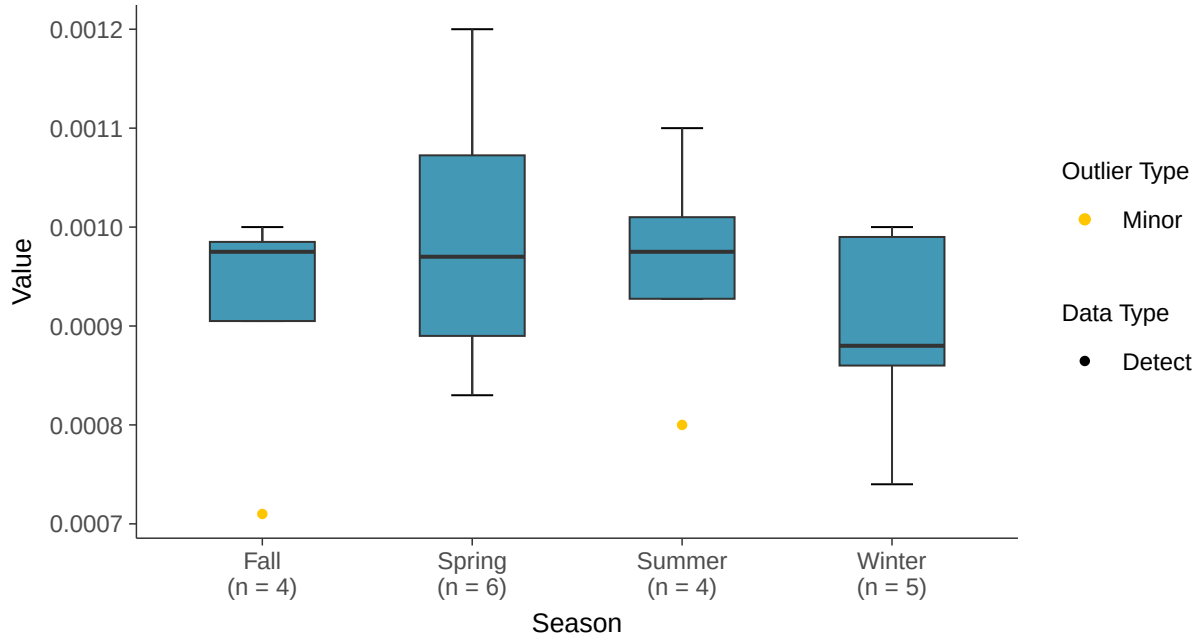
Boxplot

Cobalt, MW-07 (mg/L)



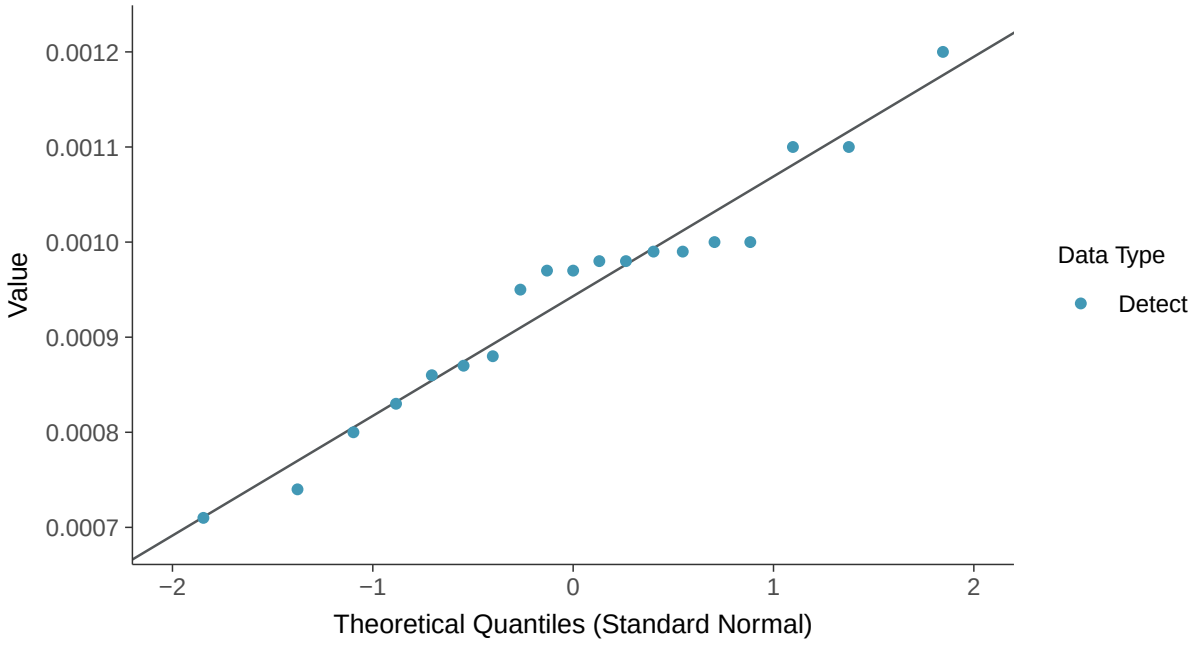
Boxplot by Season

Cobalt, MW-07 (mg/L)



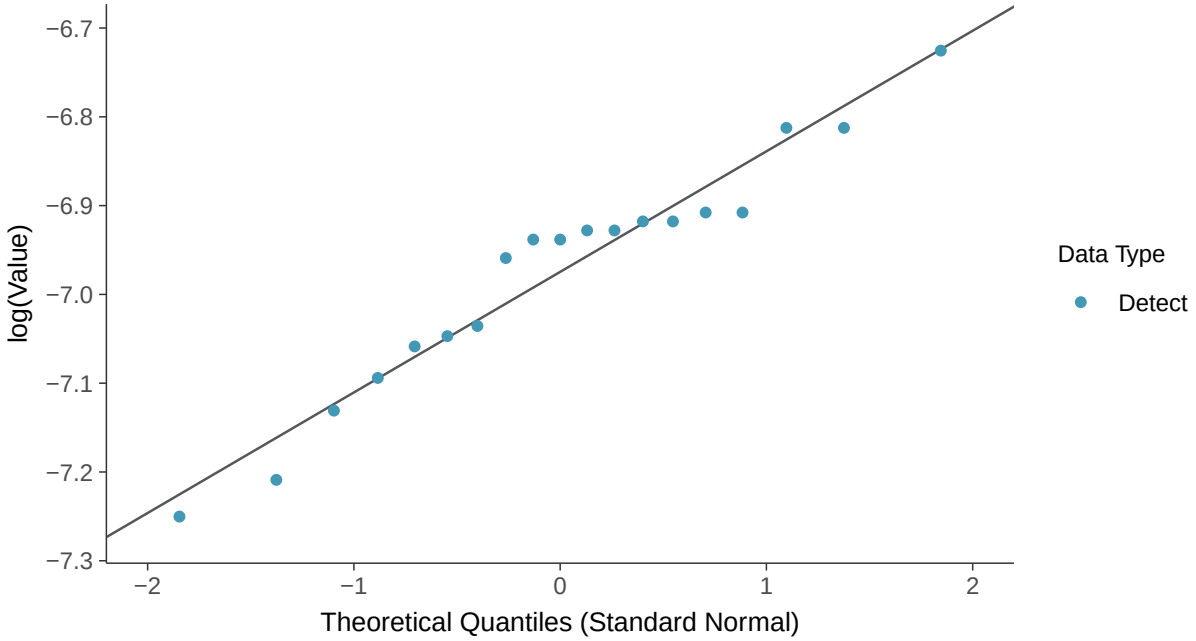
Normal Q-Q plot

Cobalt, MW-07 (mg/L)



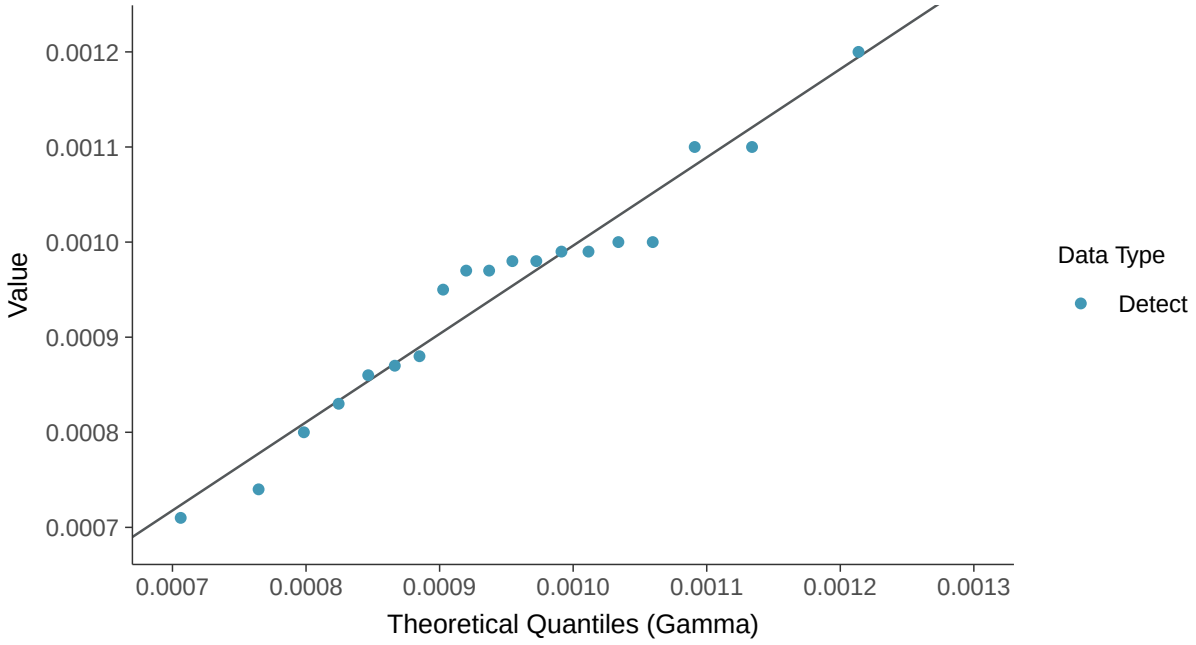
Lognormal Q-Q plot

Cobalt, MW-07 (mg/L)



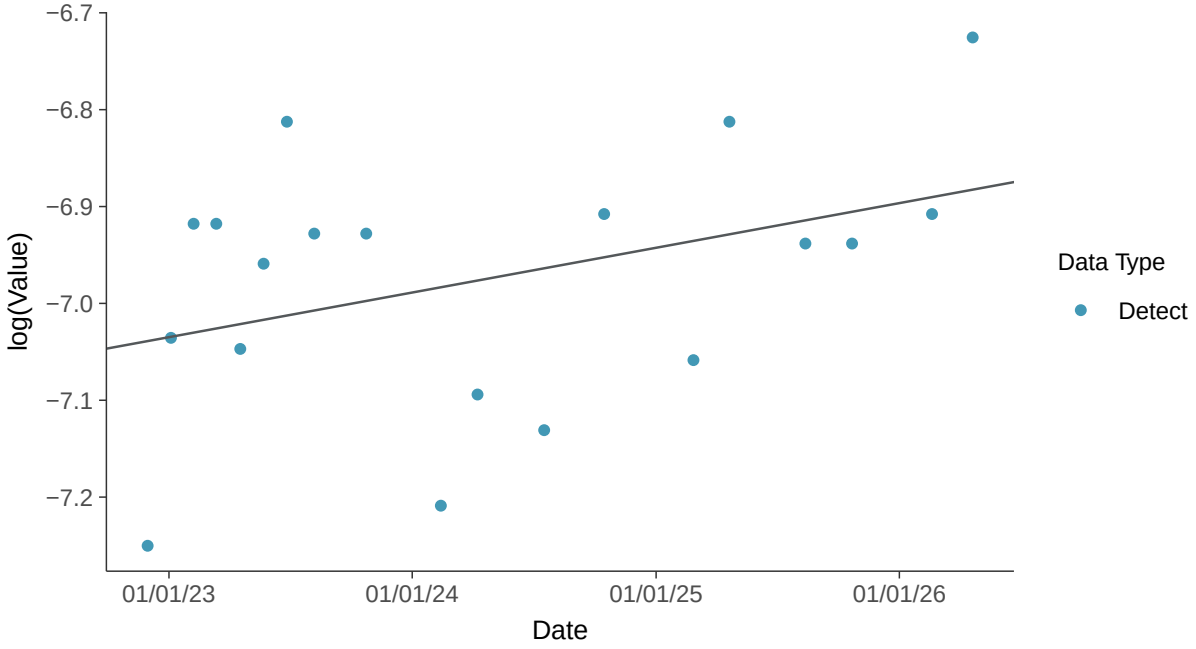
Gamma Q-Q plot

Cobalt, MW-07 (mg/L)



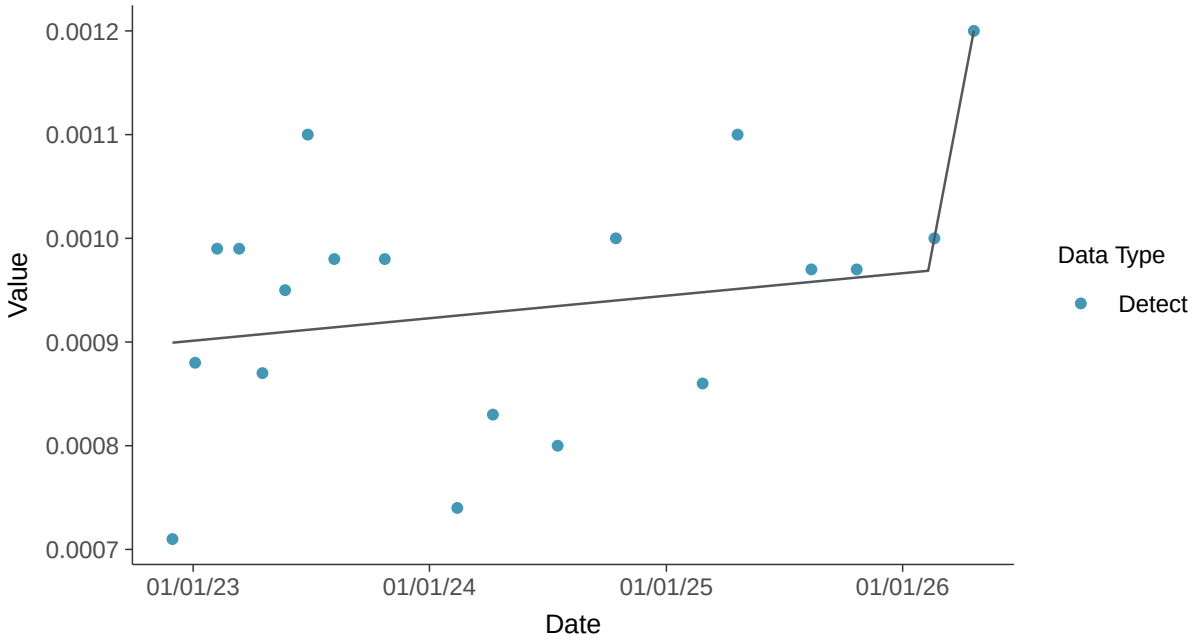
Trend Regression: Lognormal MLE

Cobalt, MW-07 (mg/L)



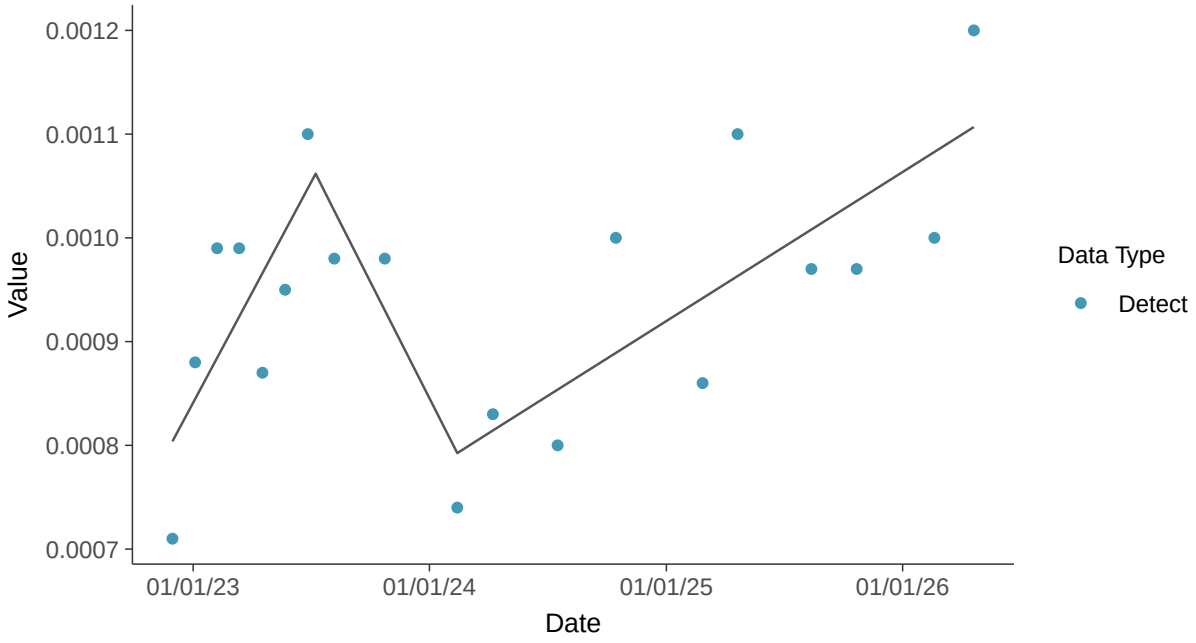
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-07 (mg/L)



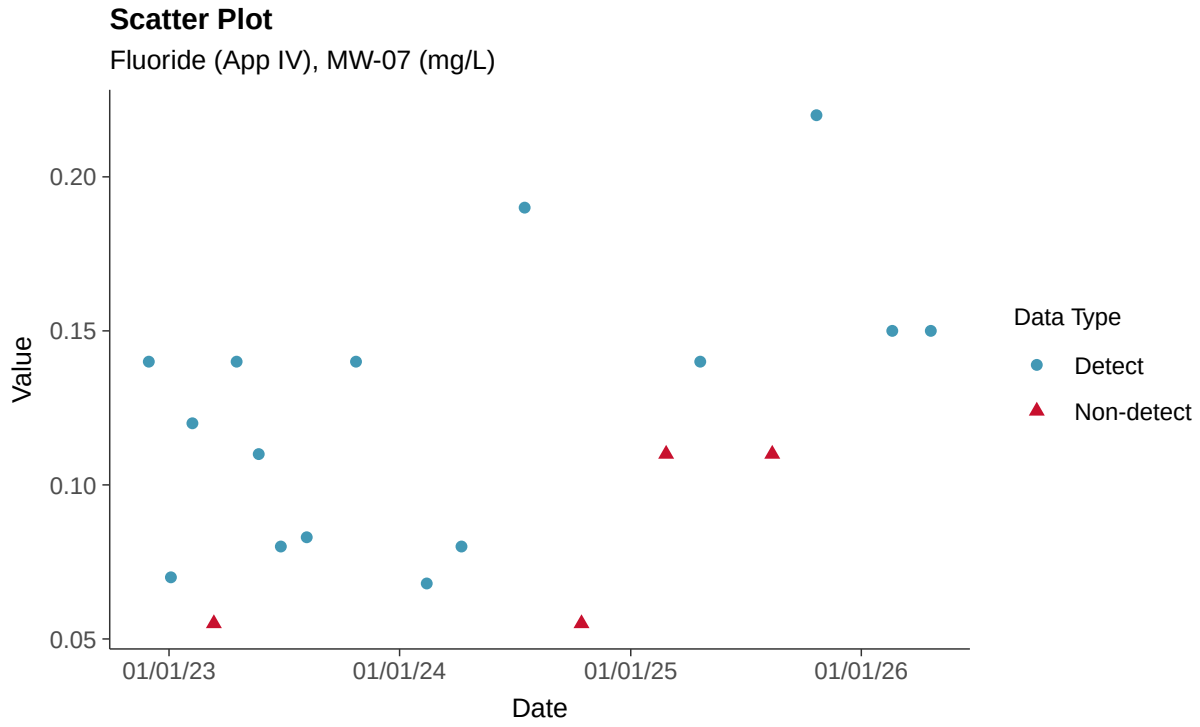
Trend Regression: Piecewise Linear-Linear-Linear

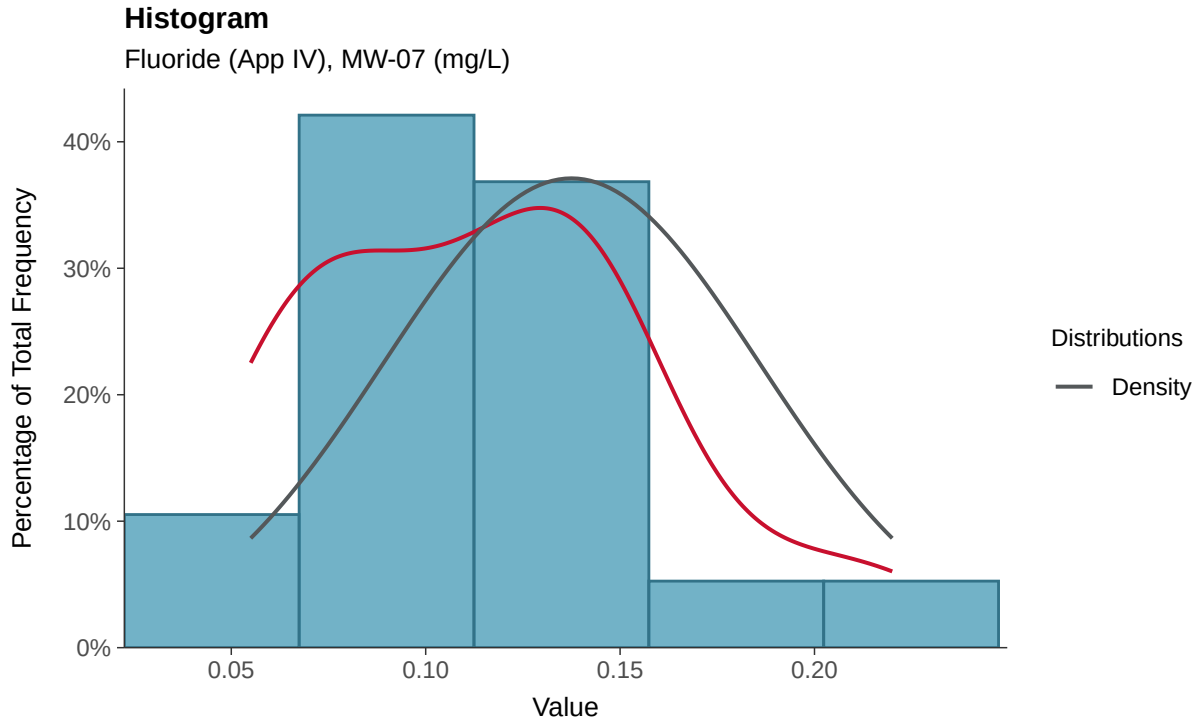
Cobalt, MW-07 (mg/L)



Appendix IV: Fluoride (App IV), MW-07

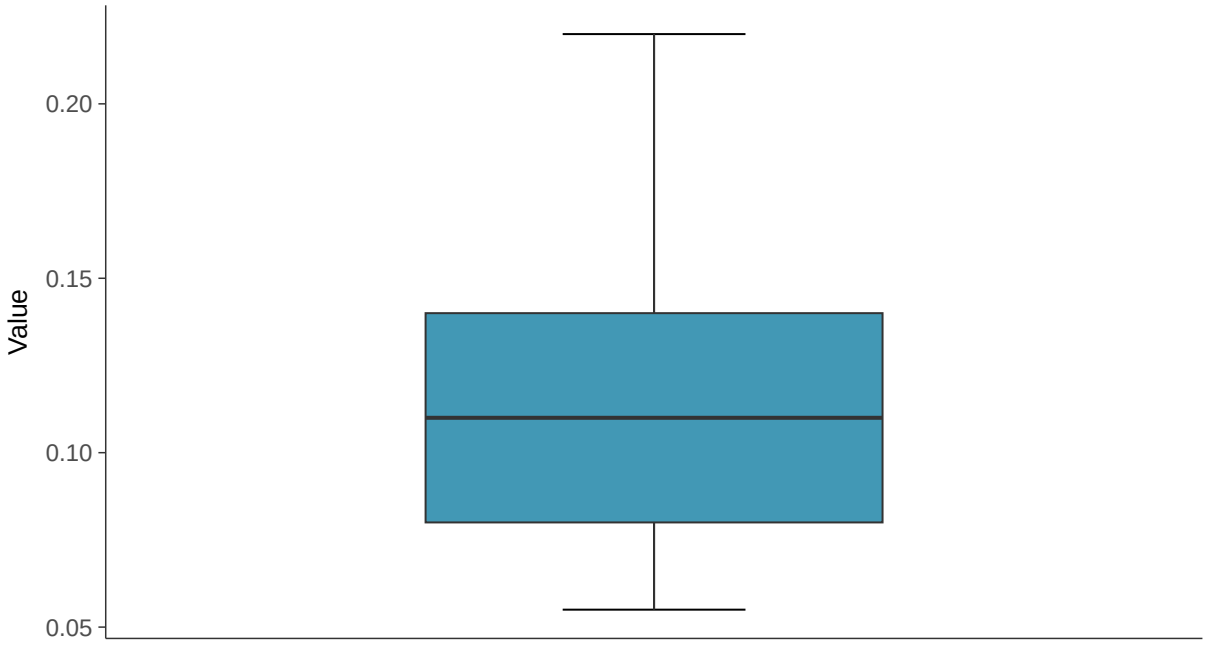
ID: 17_1_4_113





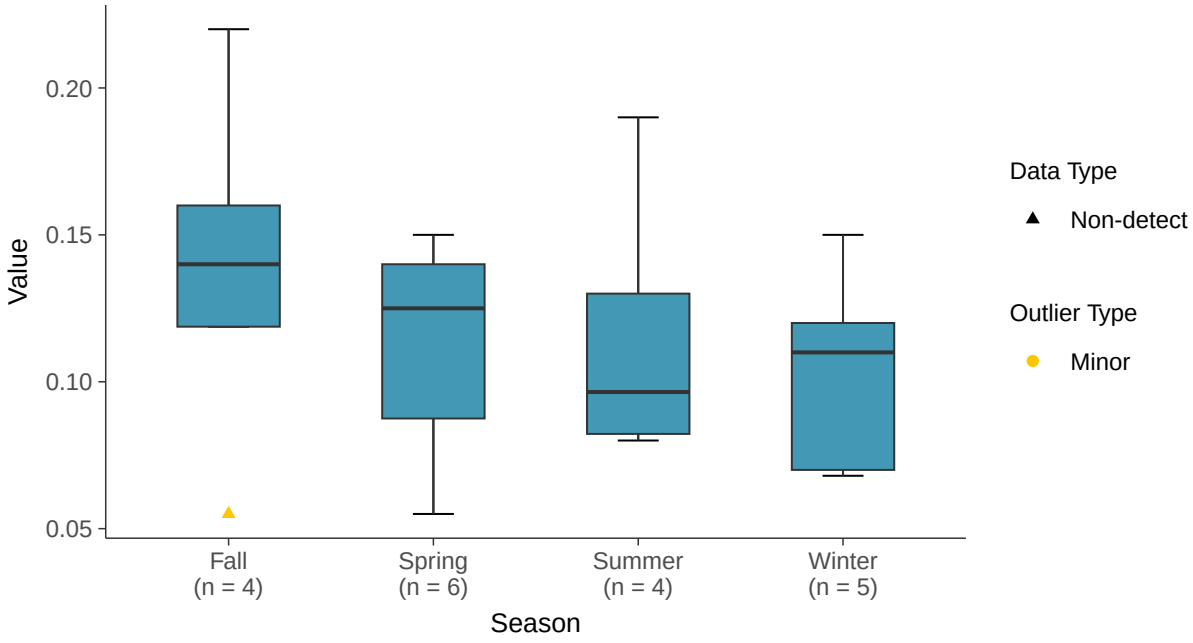
Boxplot

Fluoride (App IV), MW-07 (mg/L)



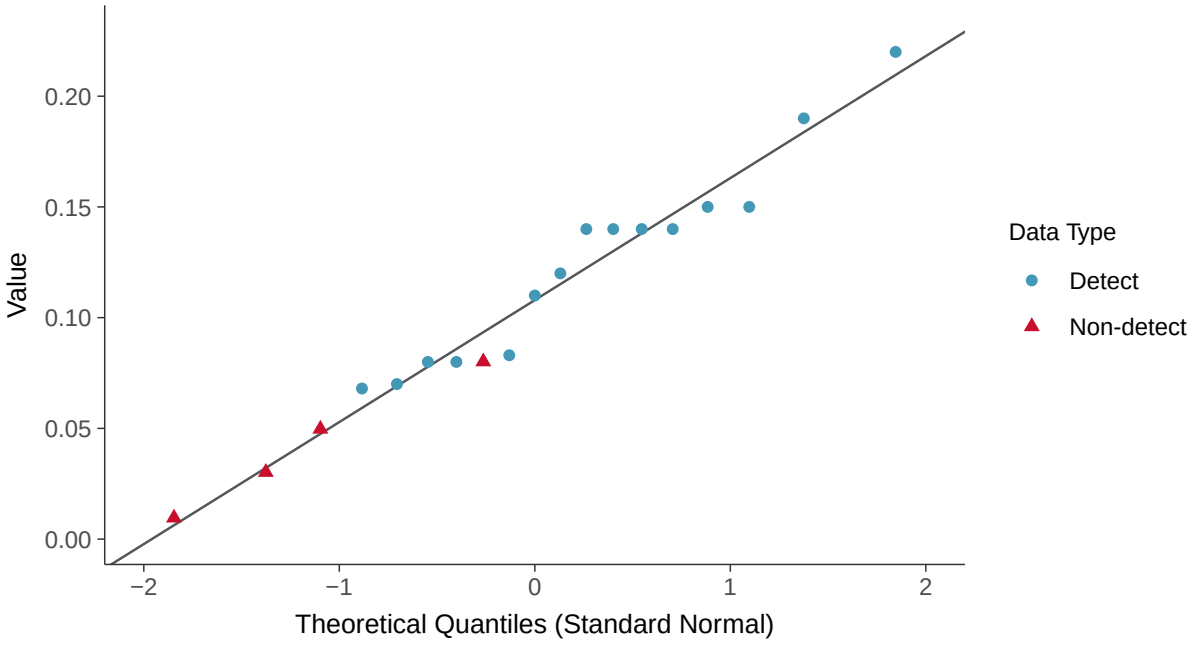
Boxplot by Season

Fluoride (App IV), MW-07 (mg/L)



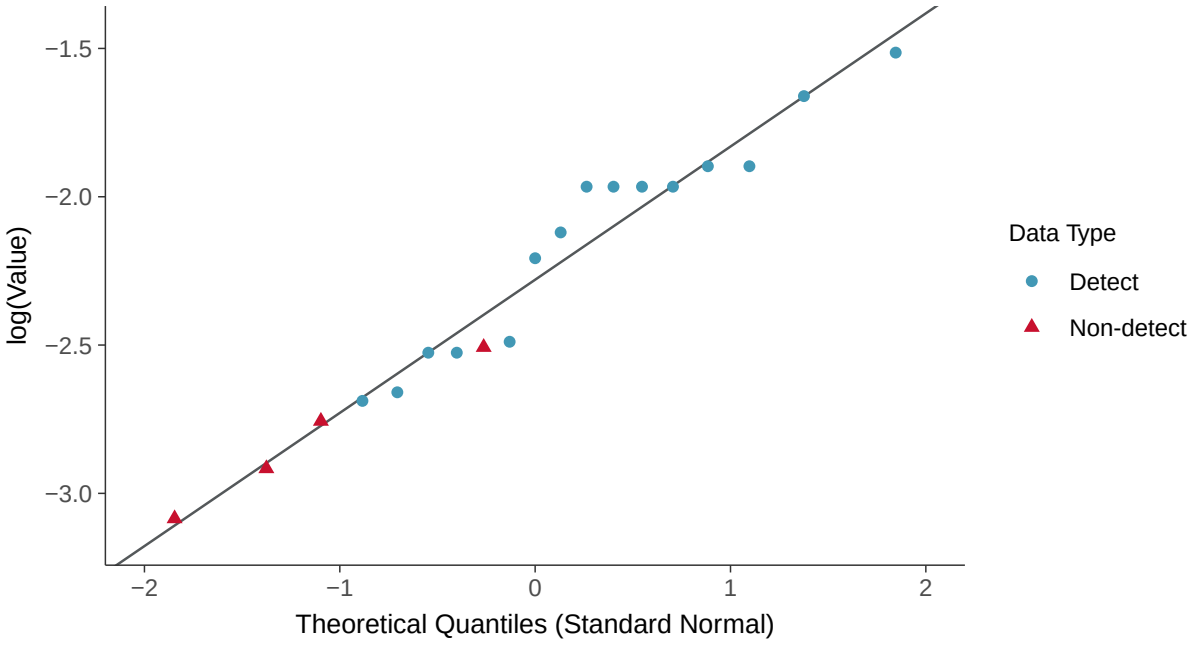
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



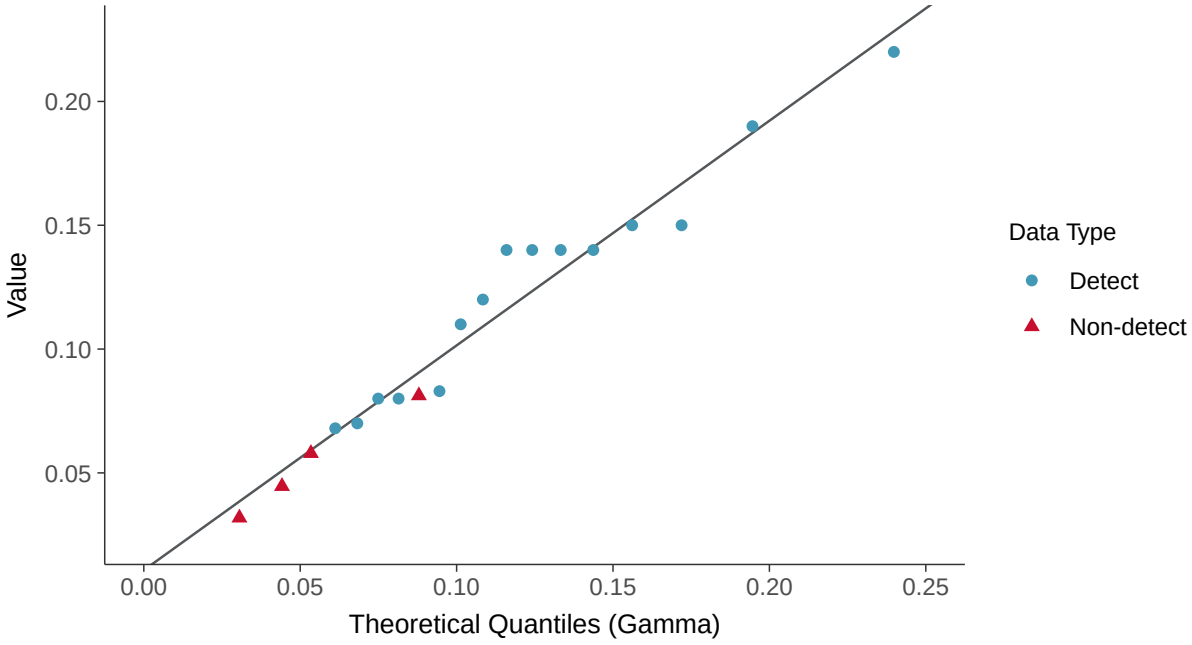
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-07 (mg/L)



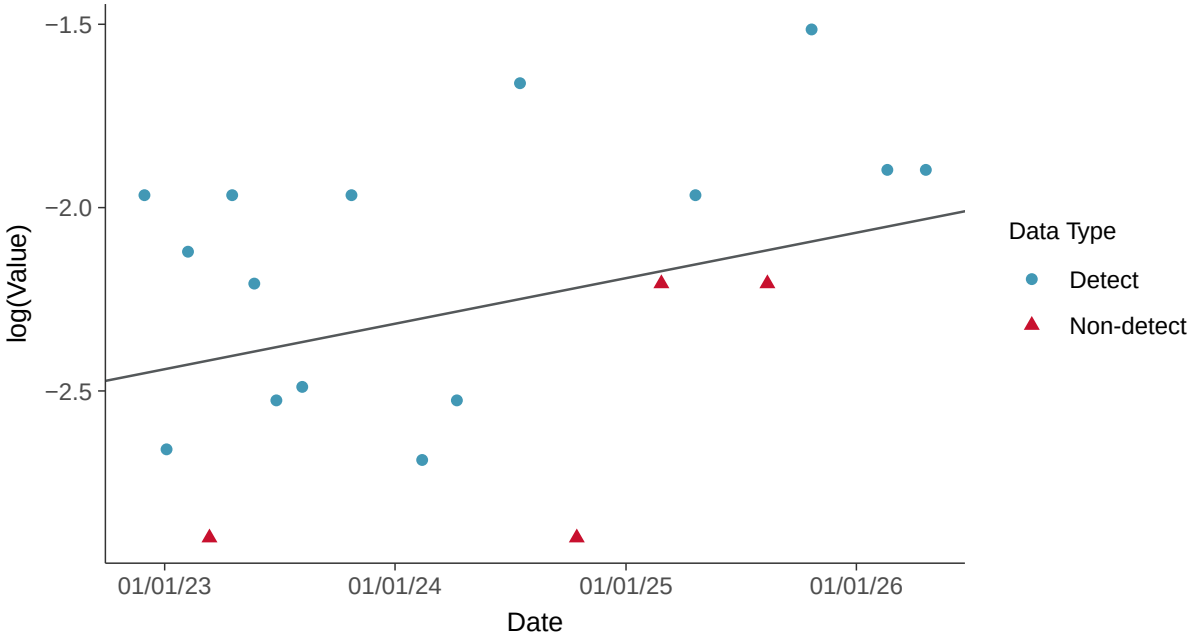
Gamma Q-Q plot using ROS Imputed Estimates

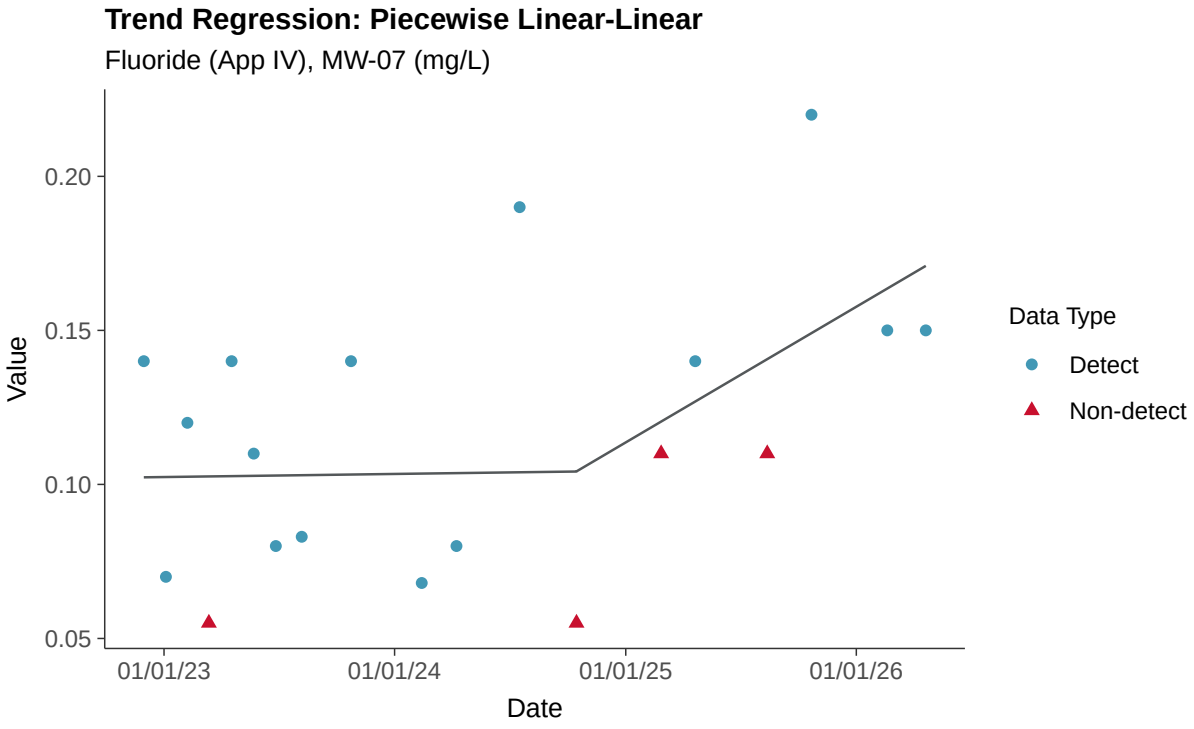
Fluoride (App IV), MW-07 (mg/L)



Trend Regression: Lognormal MLE

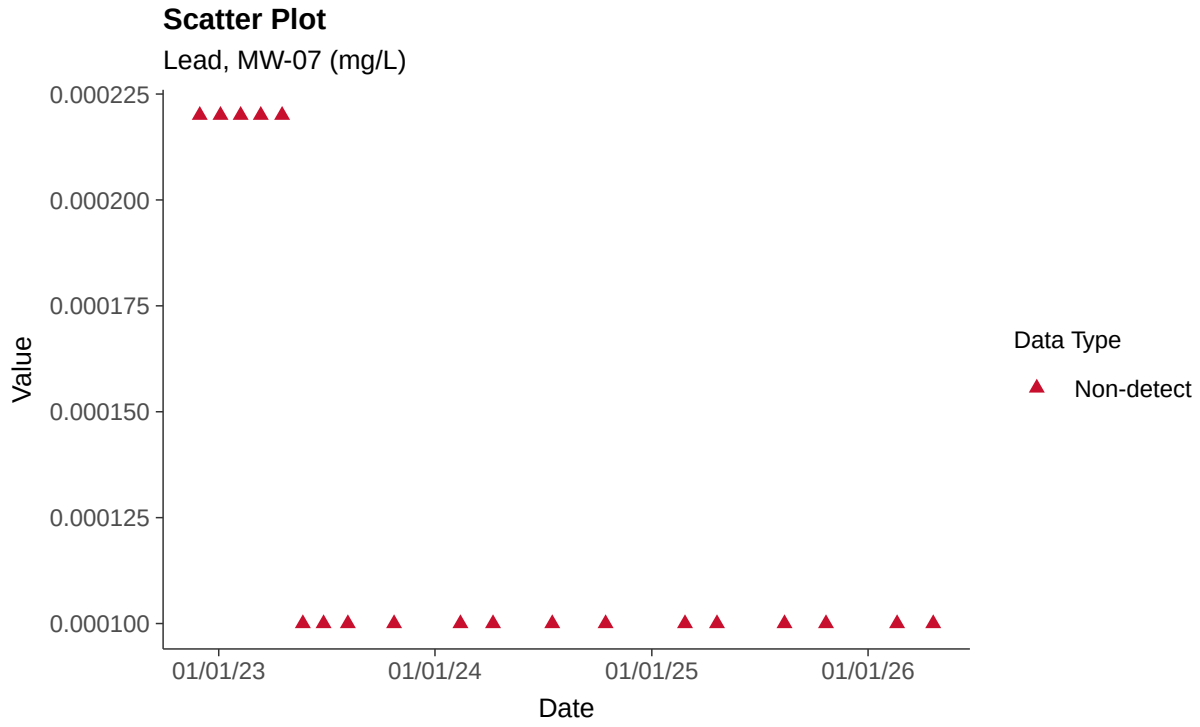
Fluoride (App IV), MW-07 (mg/L)

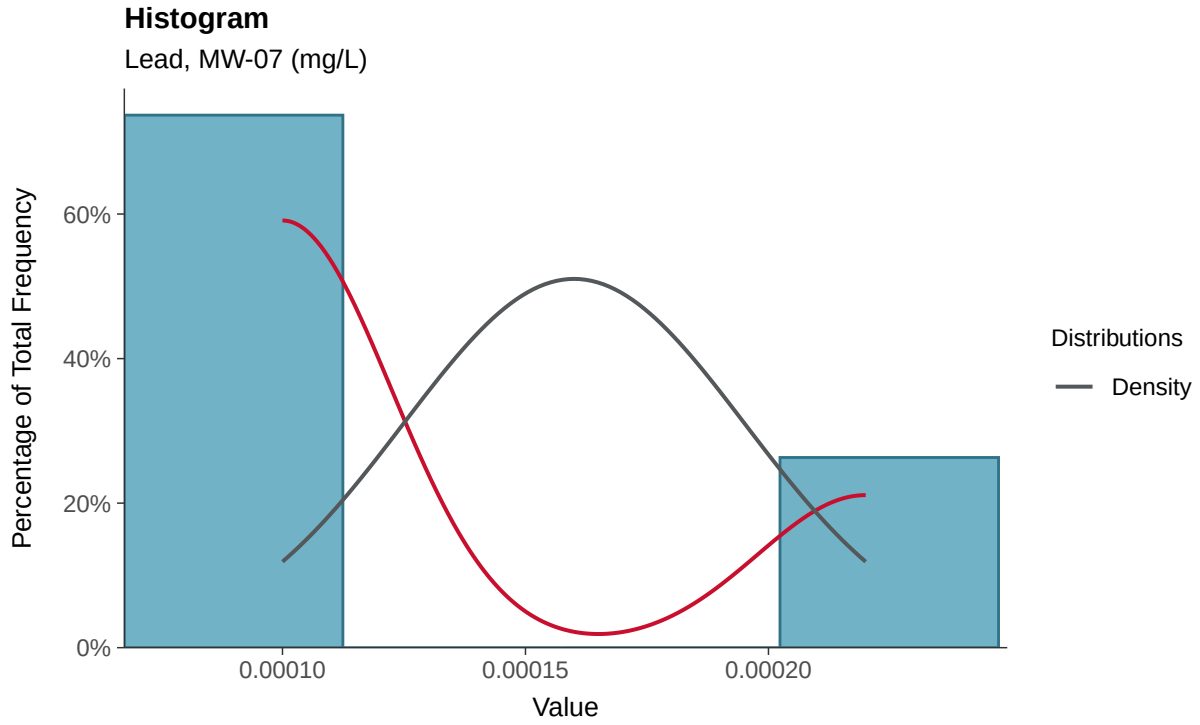


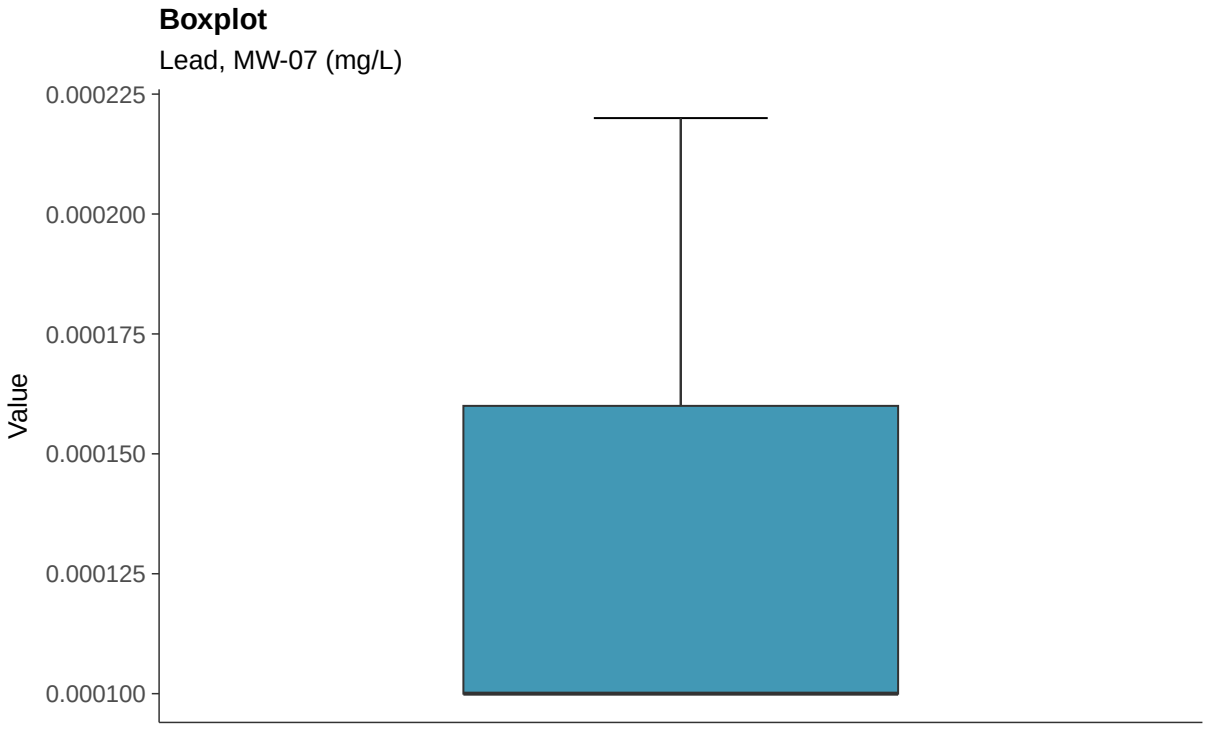

Trend Regression: Piecewise Linear-Linear
Fluoride (App IV), MW-07 (mg/L)
Value
0.20
0.15
0.10
0.05
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

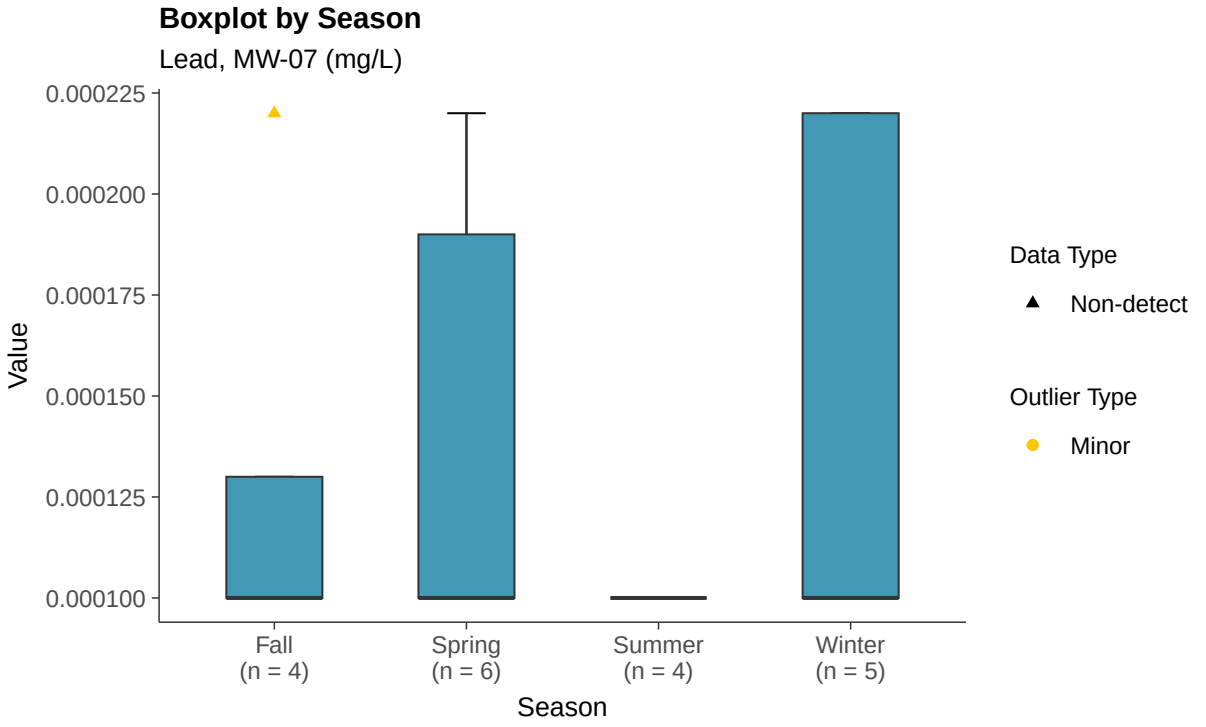
Appendix IV: Lead, MW-07

ID: 17_1_4_115



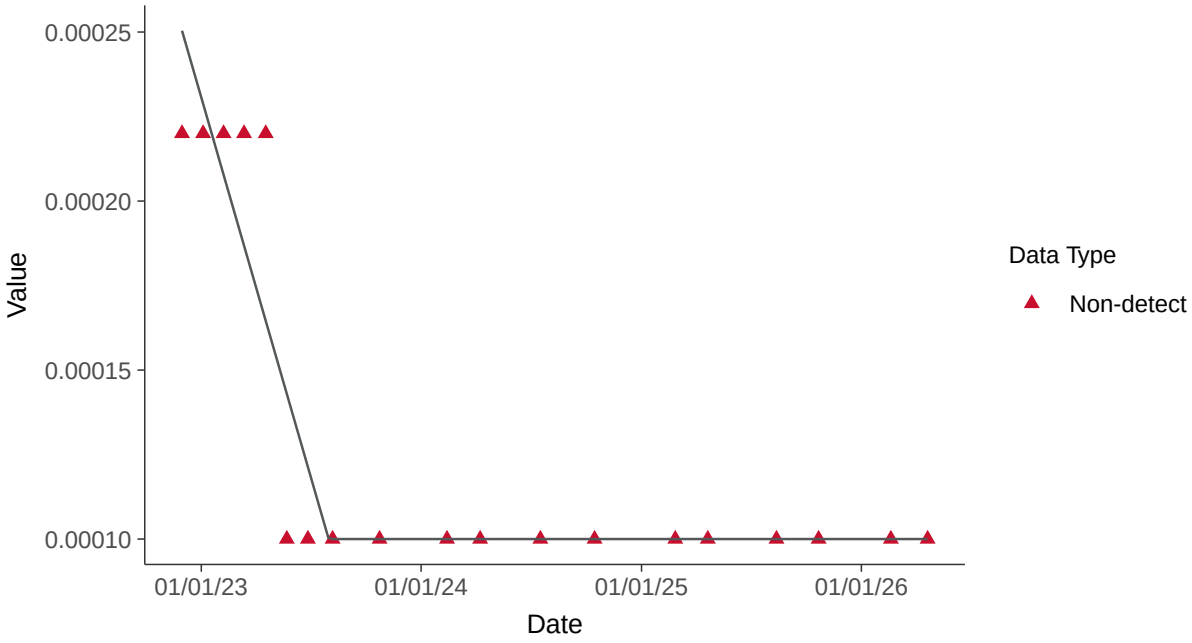



Boxplot
Lead, MW-07 (mg/L)
0.000225
0.000200
0.000175
0.000150
0.000125
0.000100
Value


Boxplot by Season
Lead, MW-07 (mg/L)
0.000225
0.000200
0.000175
0.000150
0.000125
0.000100
Value
Fall
(n = 4)
Spring
(n = 6)
Summer
(n = 4)
Winter
(n = 5)
Season
Data Type
Non-detect
Outlier Type
Minor

Trend Regression: Piecewise Linear-Linear

Lead, MW-07 (mg/L)

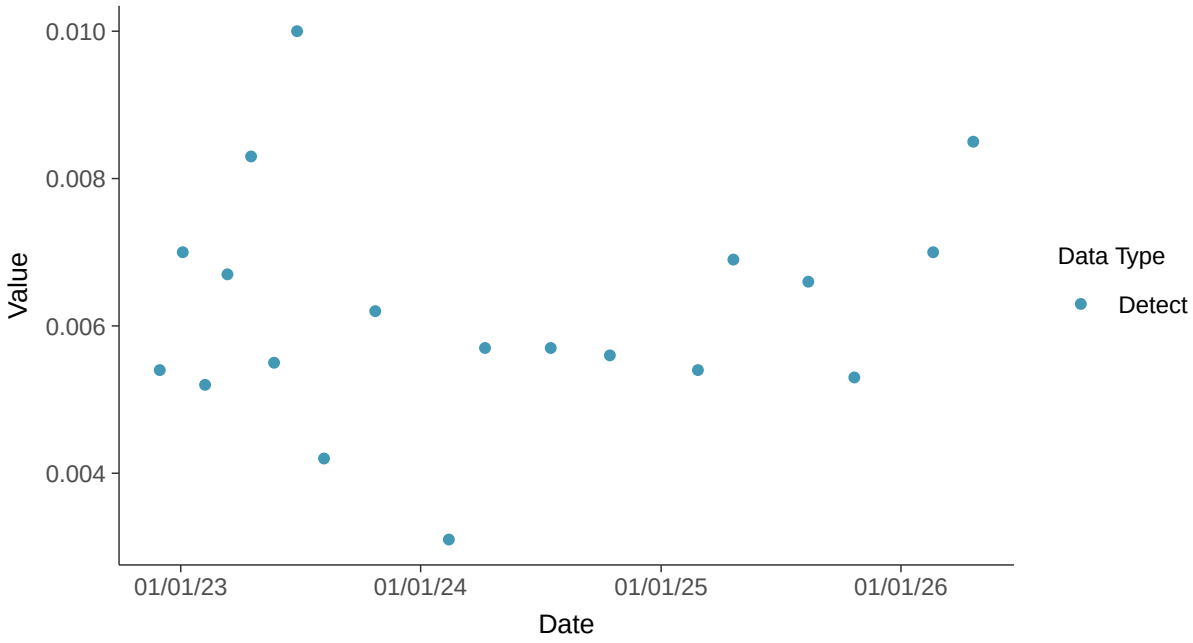


Appendix IV: Lithium, MW-07

ID: 17_1_4_116

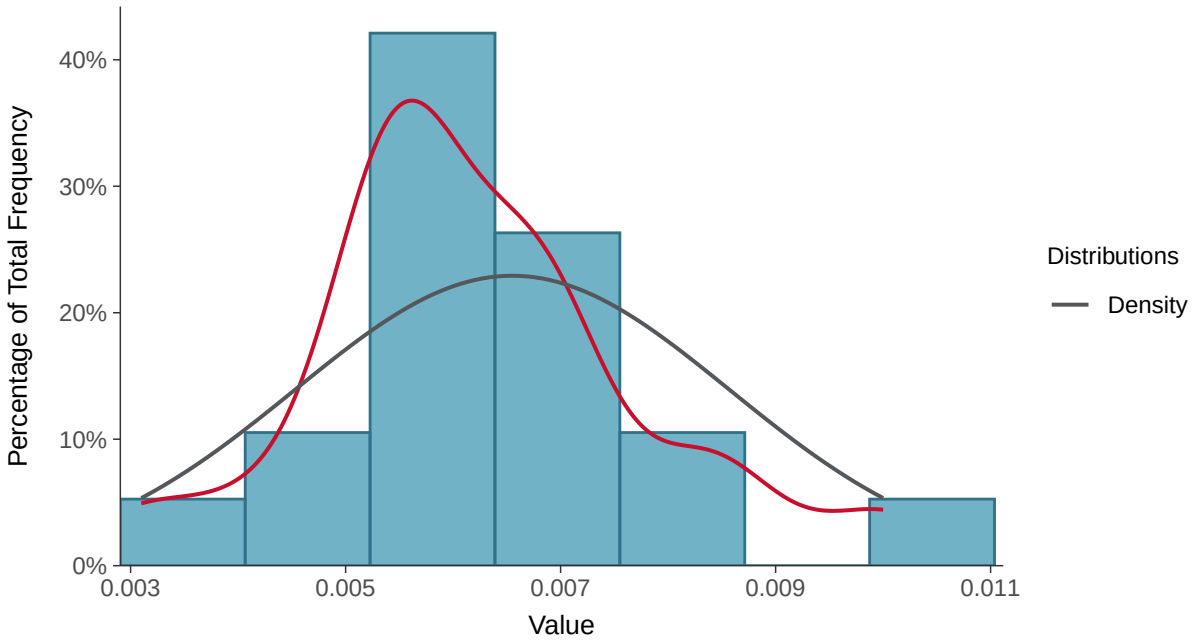
Scatter Plot

Lithium, MW-07 (mg/L)



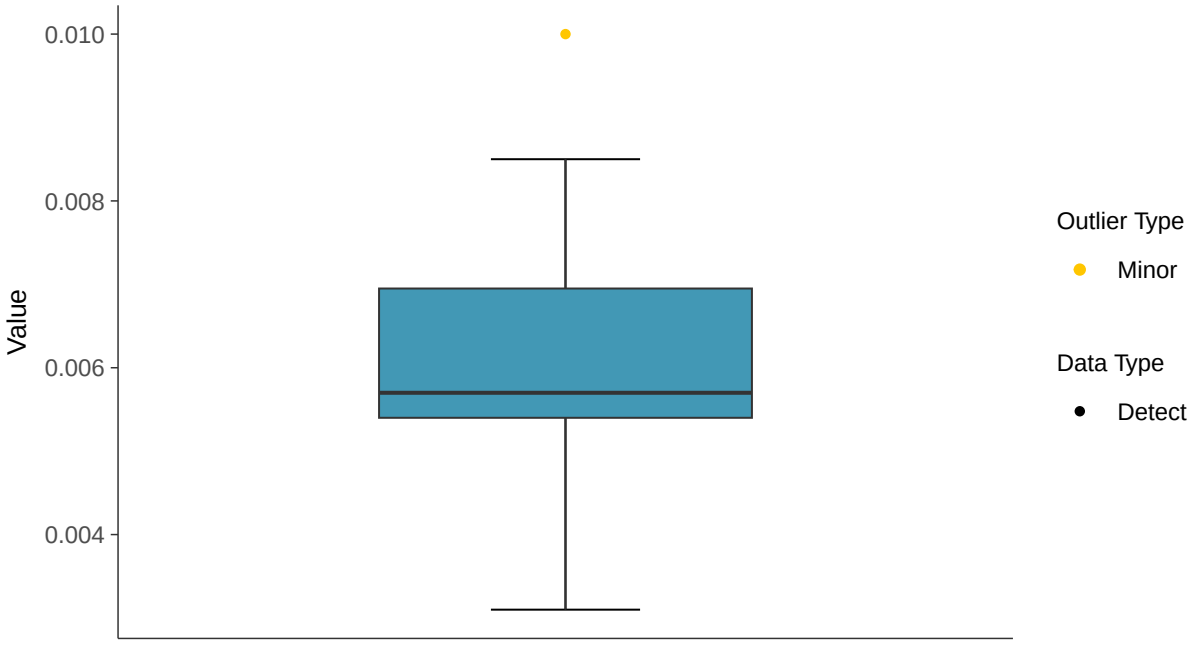
Histogram

Lithium, MW-07 (mg/L)



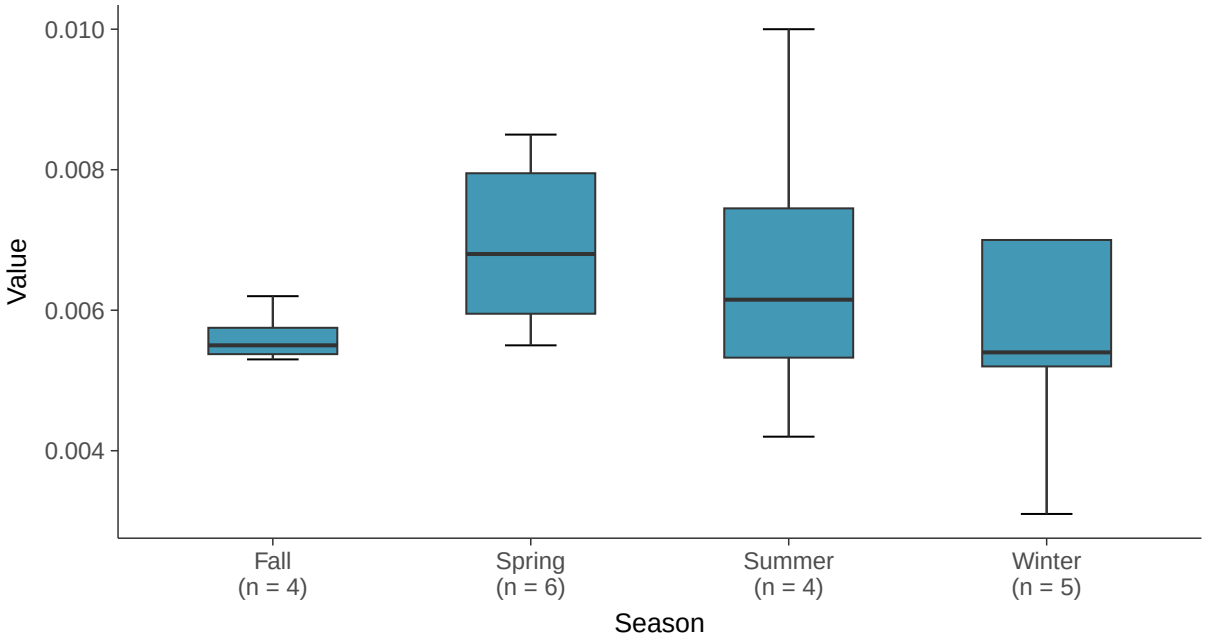
Boxplot

Lithium, MW-07 (mg/L)



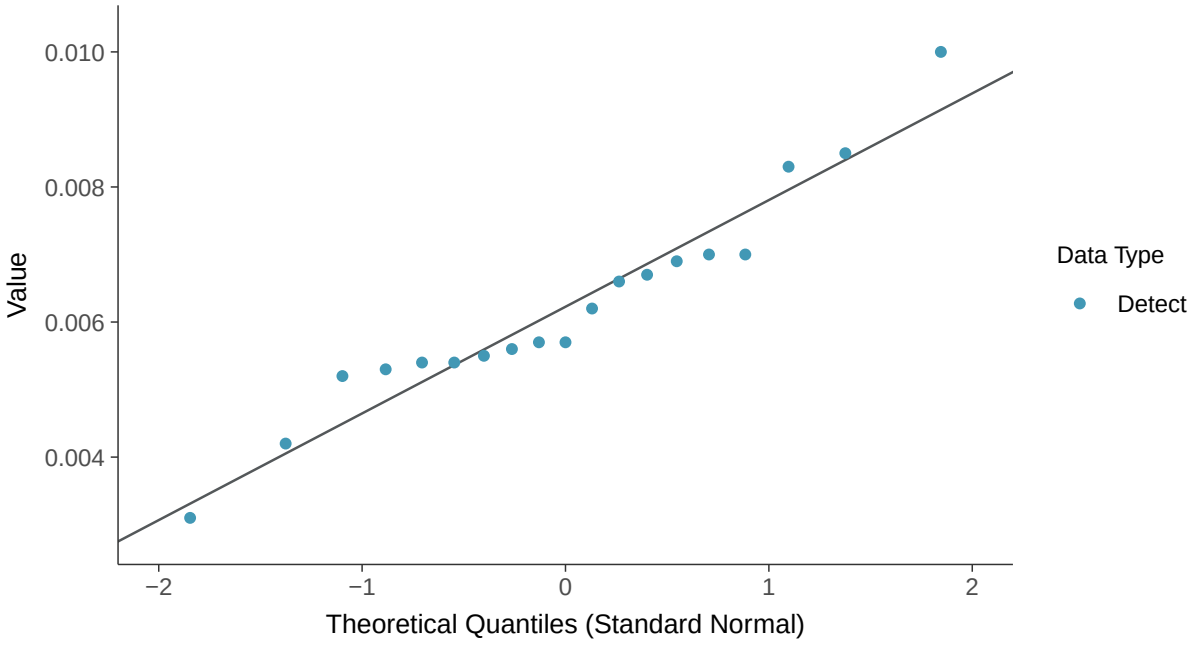
Boxplot by Season

Lithium, MW-07 (mg/L)



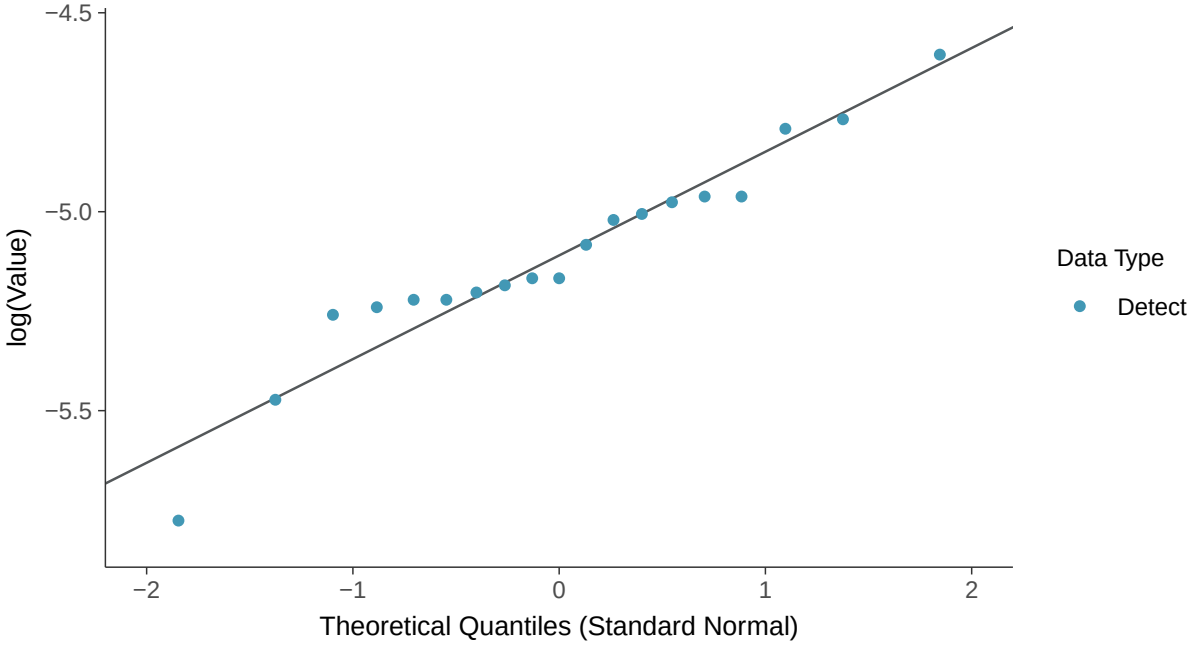
Normal Q-Q plot

Lithium, MW-07 (mg/L)



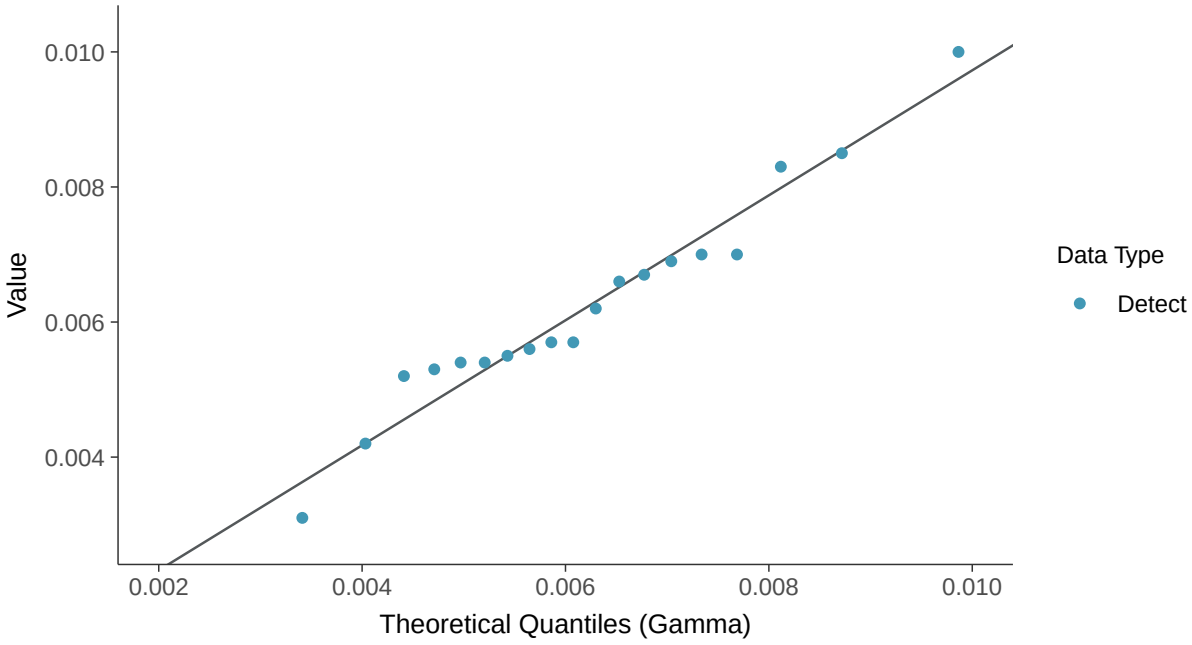
Lognormal Q-Q plot

Lithium, MW-07 (mg/L)



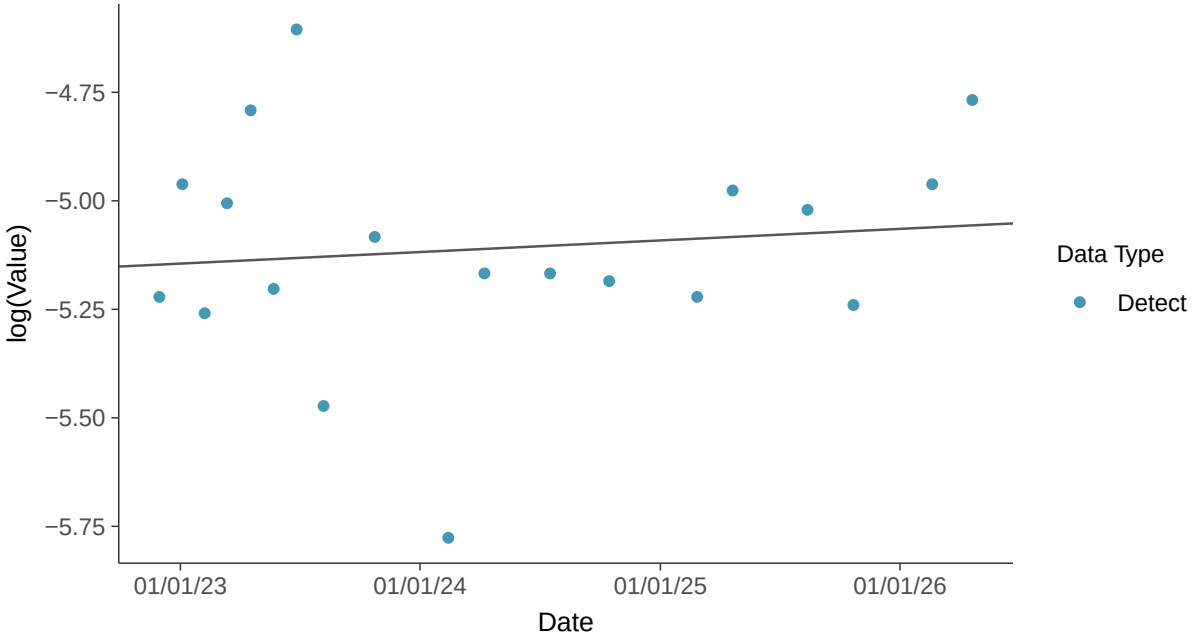
Gamma Q-Q plot

Lithium, MW-07 (mg/L)



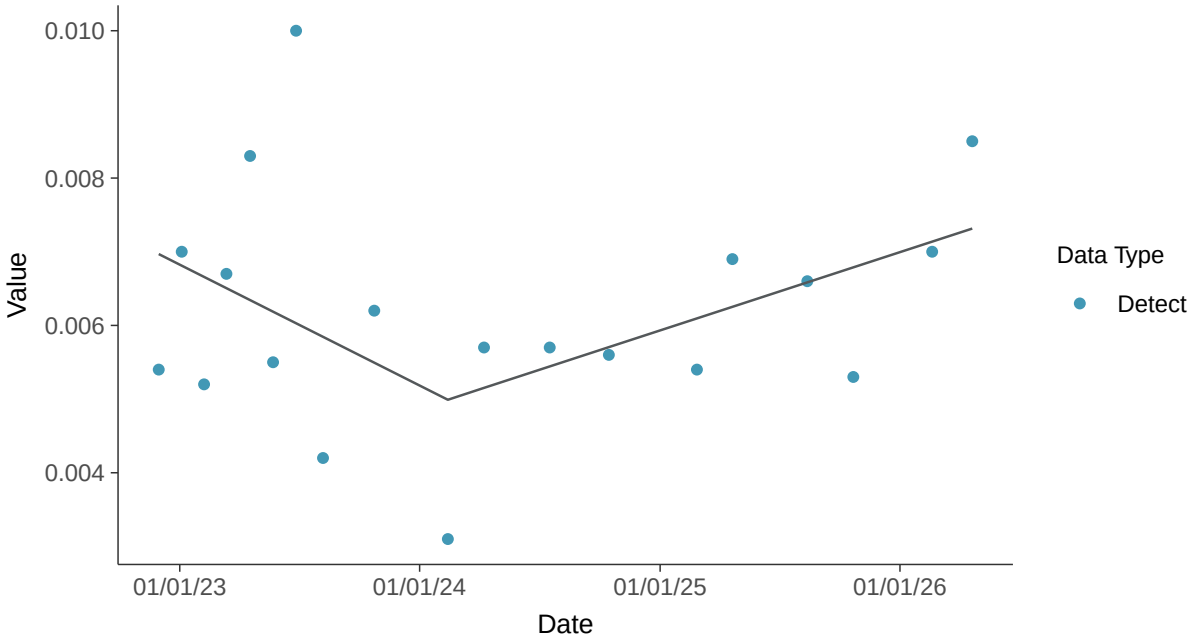
Trend Regression: Lognormal MLE

Lithium, MW-07 (mg/L)



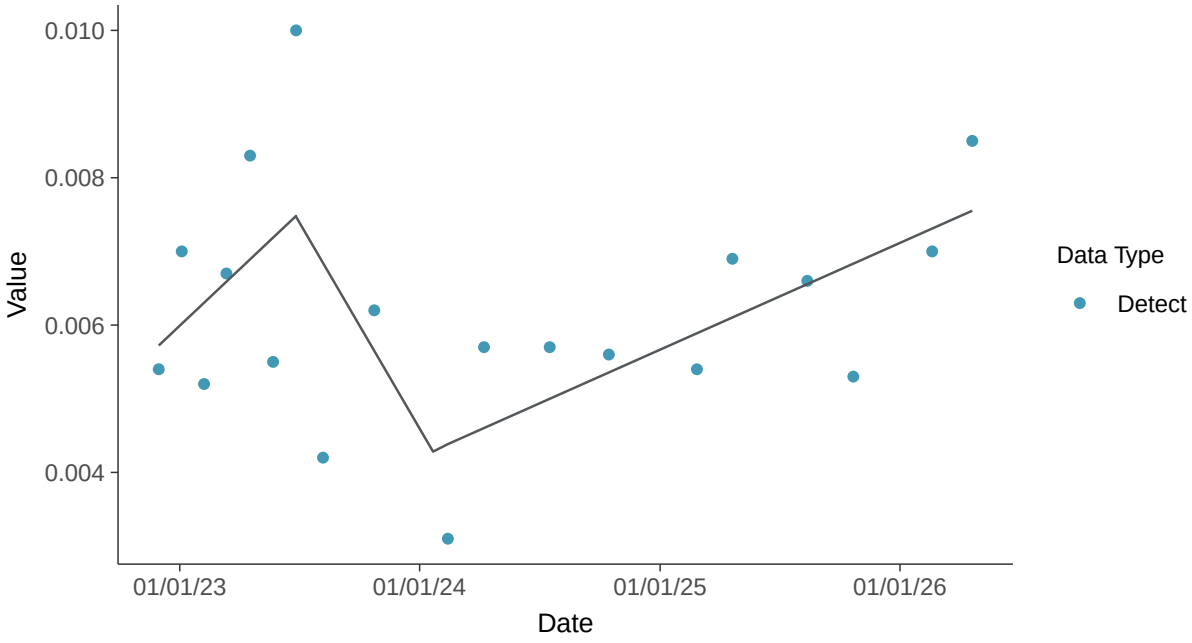
Trend Regression: Piecewise Linear-Linear

Lithium, MW-07 (mg/L)



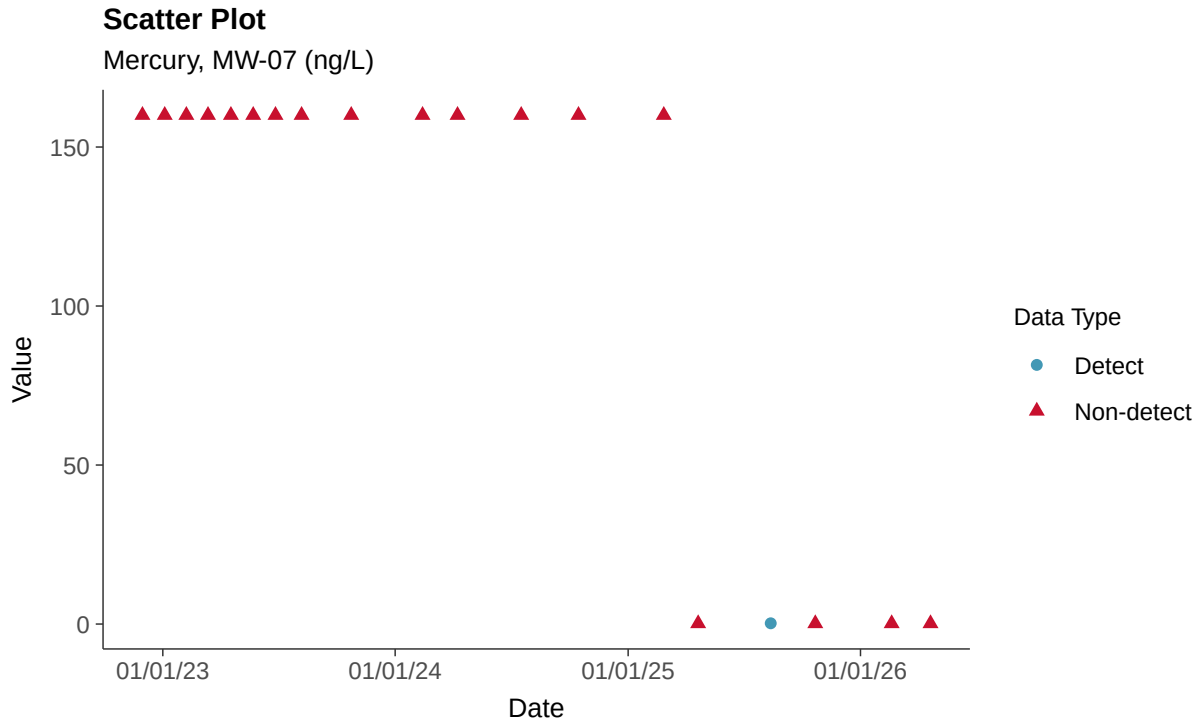
Trend Regression: Piecewise Linear-Linear-Linear

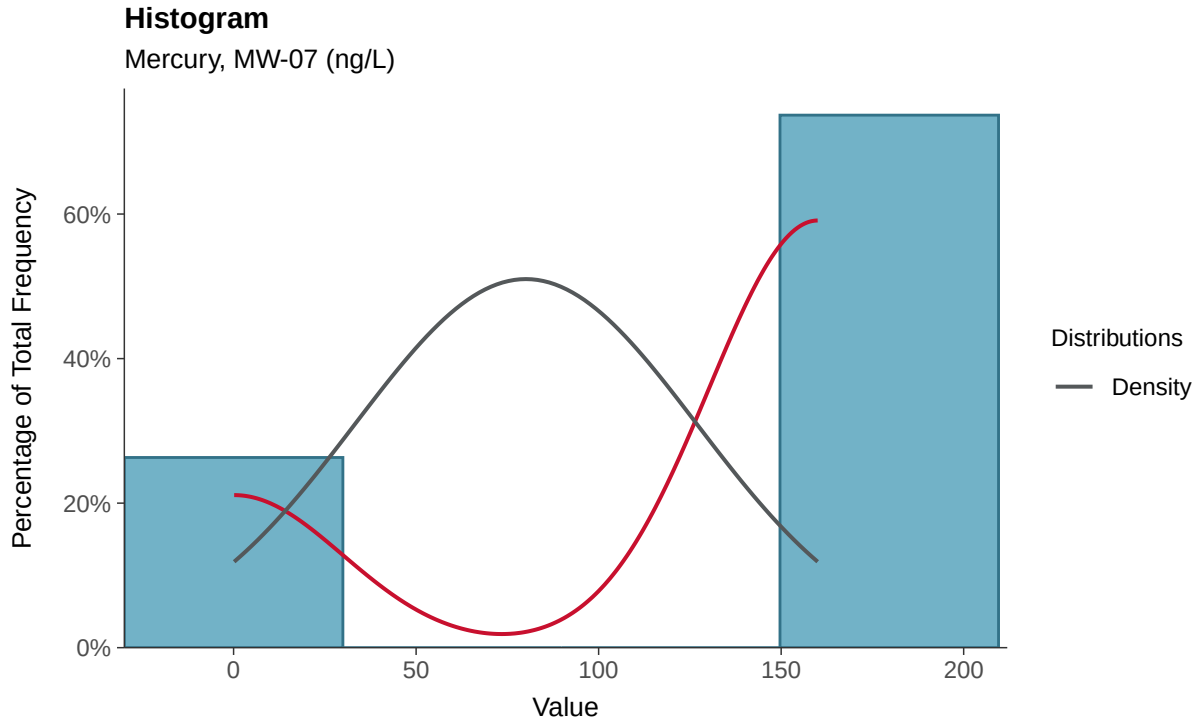
Lithium, MW-07 (mg/L)



Appendix IV: Mercury, MW-07

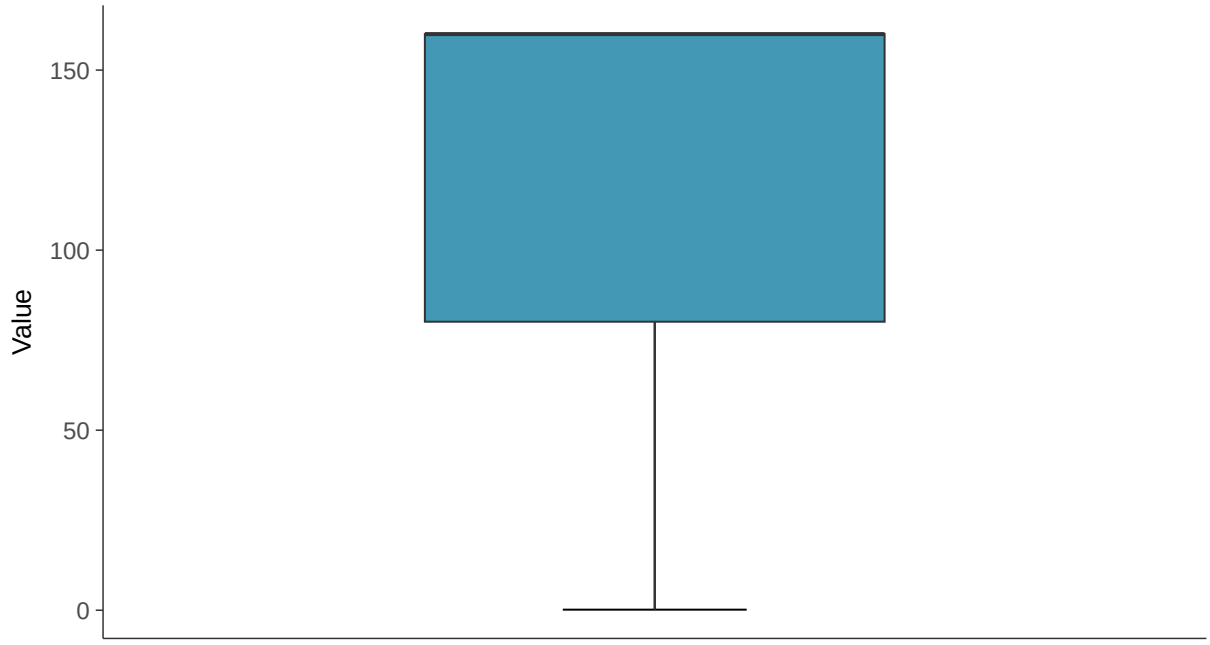
ID: 17_1_4_117





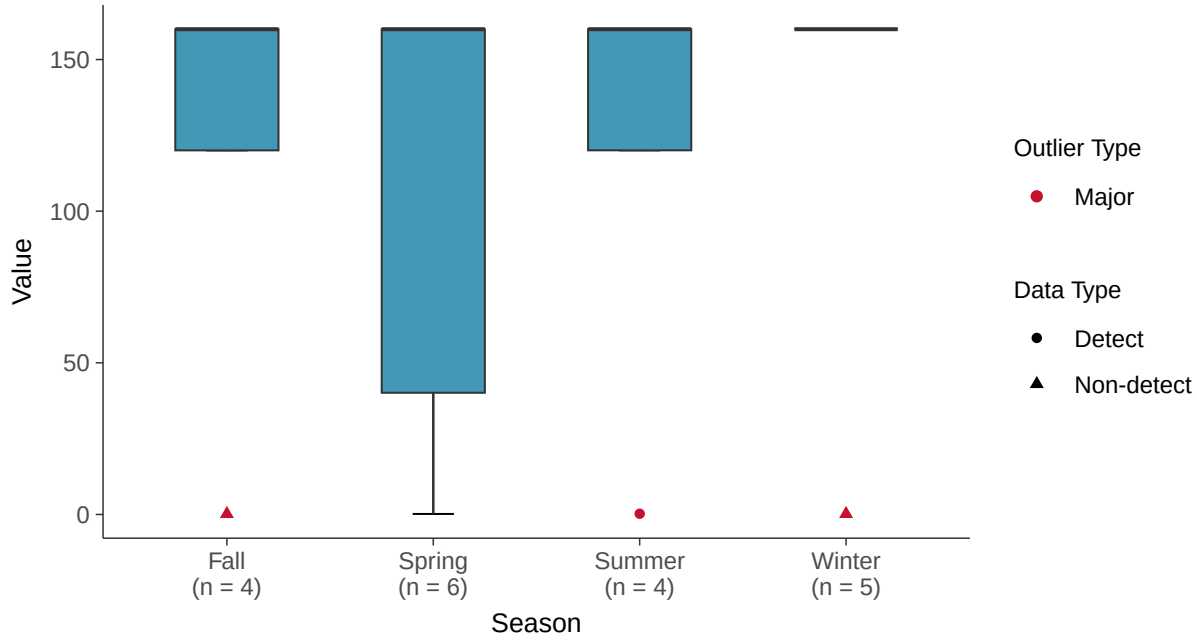
Boxplot

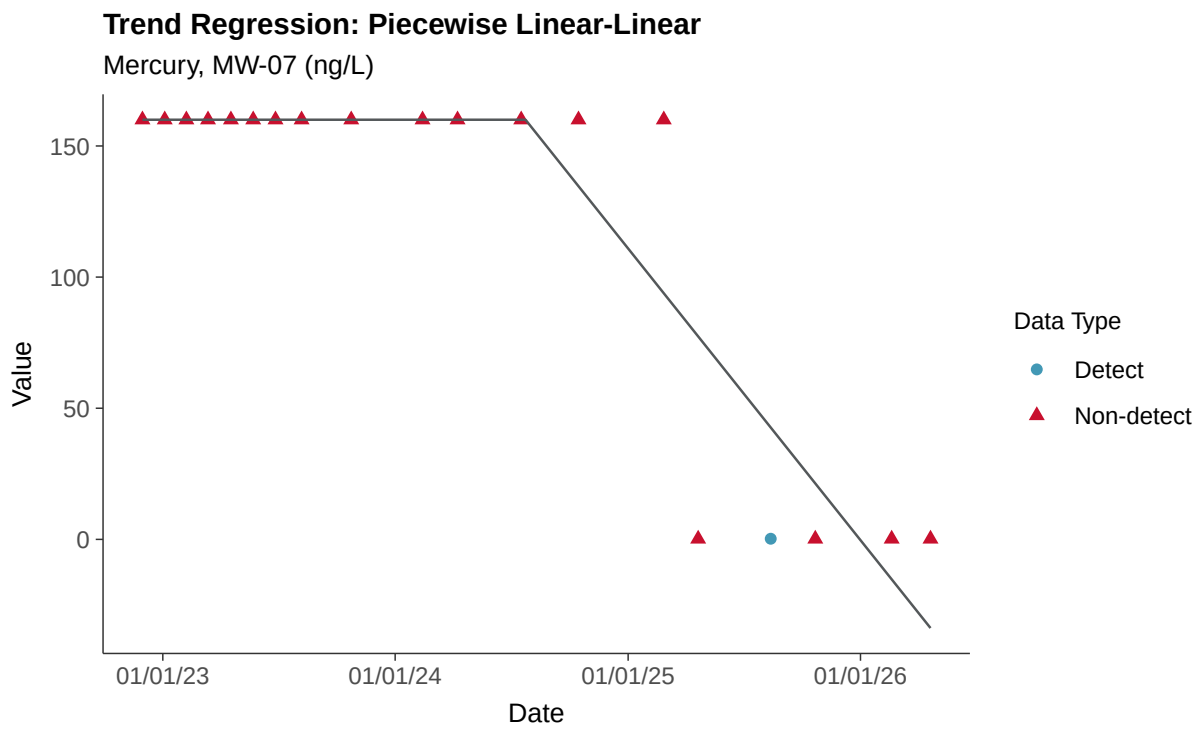
Mercury, MW-07 (ng/L)



Boxplot by Season

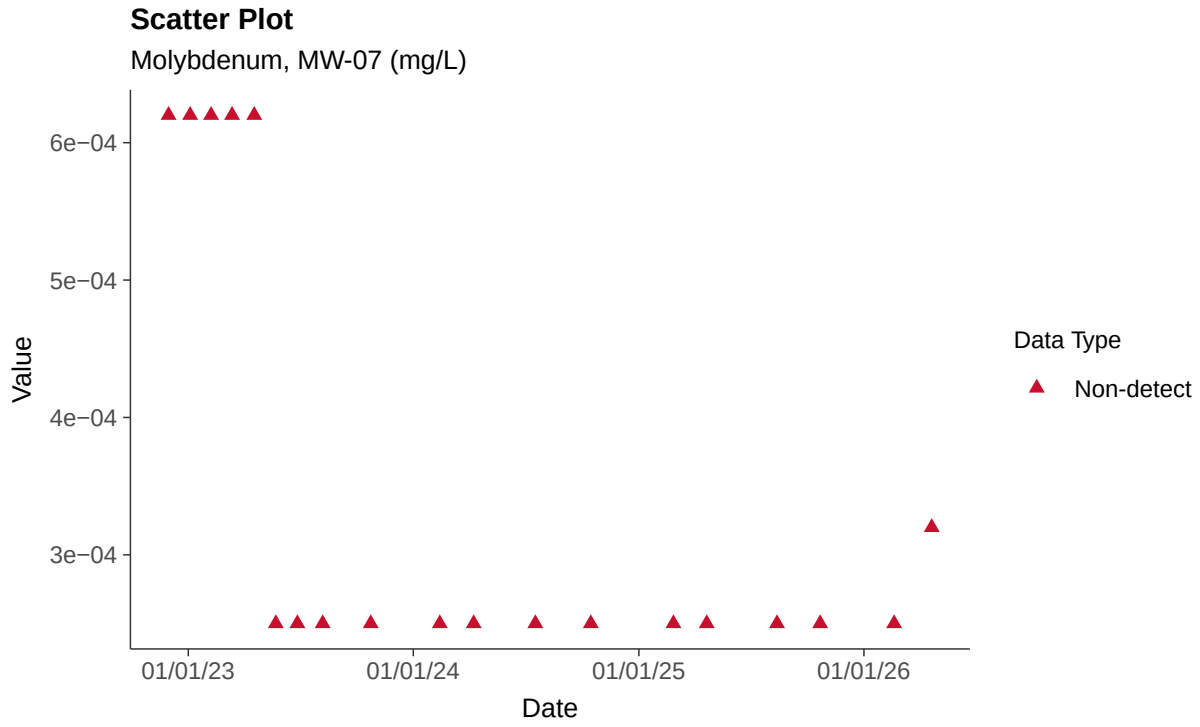
Mercury, MW-07 (ng/L)

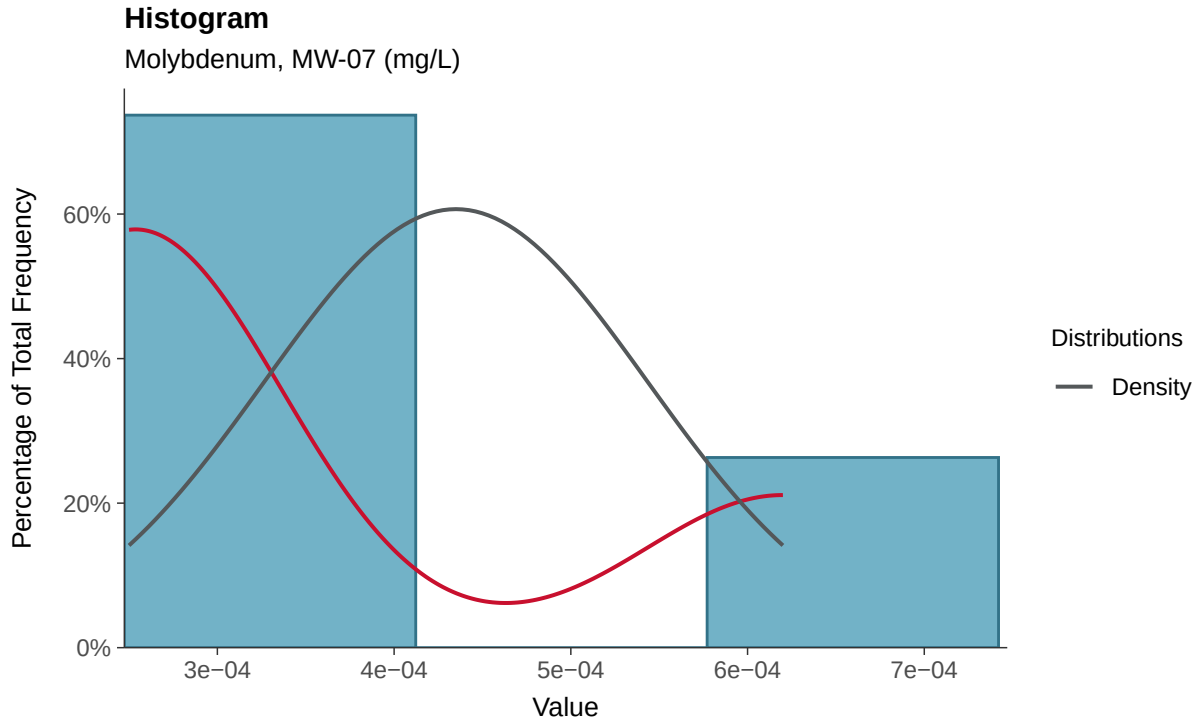



Trend Regression: Piecewise Linear-Linear
Mercury, MW-07 (ng/L)
Value
150
100
50
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-07

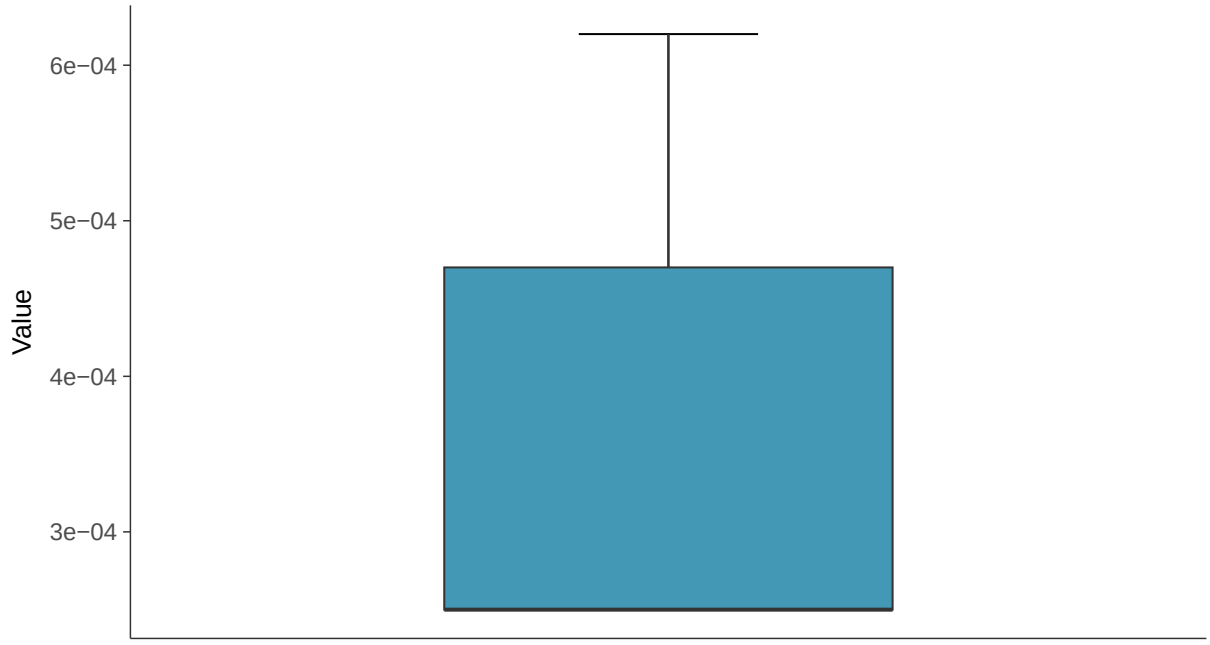
ID: 17_1_4_118





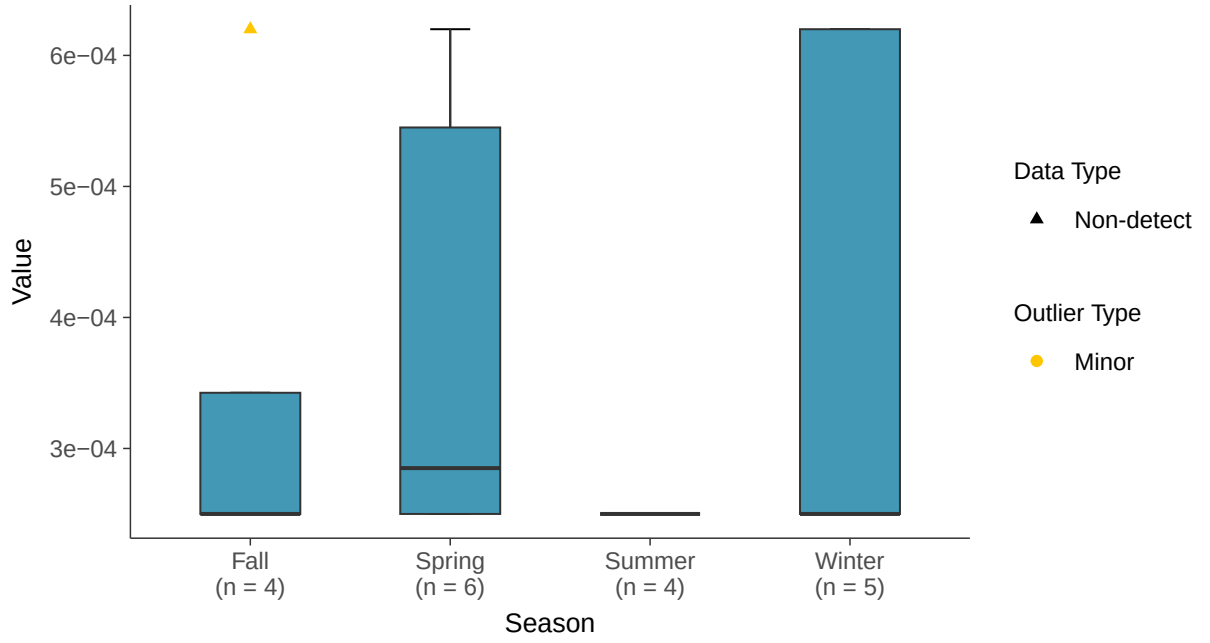
Boxplot

Molybdenum, MW-07 (mg/L)



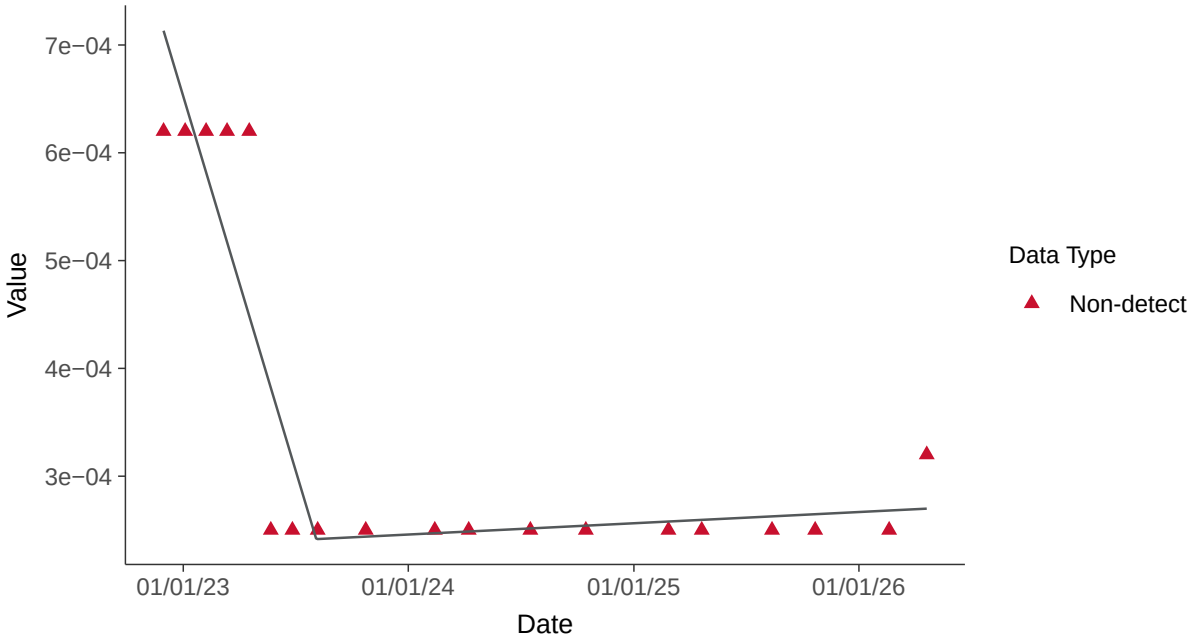
Boxplot by Season

Molybdenum, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-07 (mg/L)

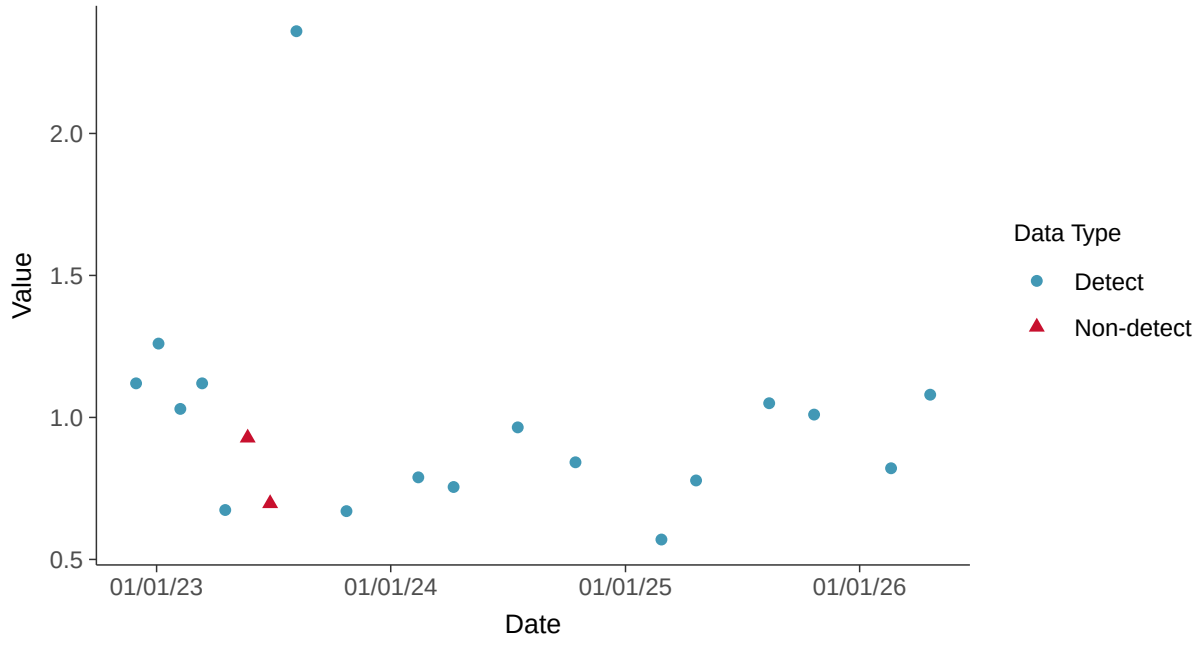


Appendix IV: Radium 226 and 228, MW-07

ID: 17_1_4_121

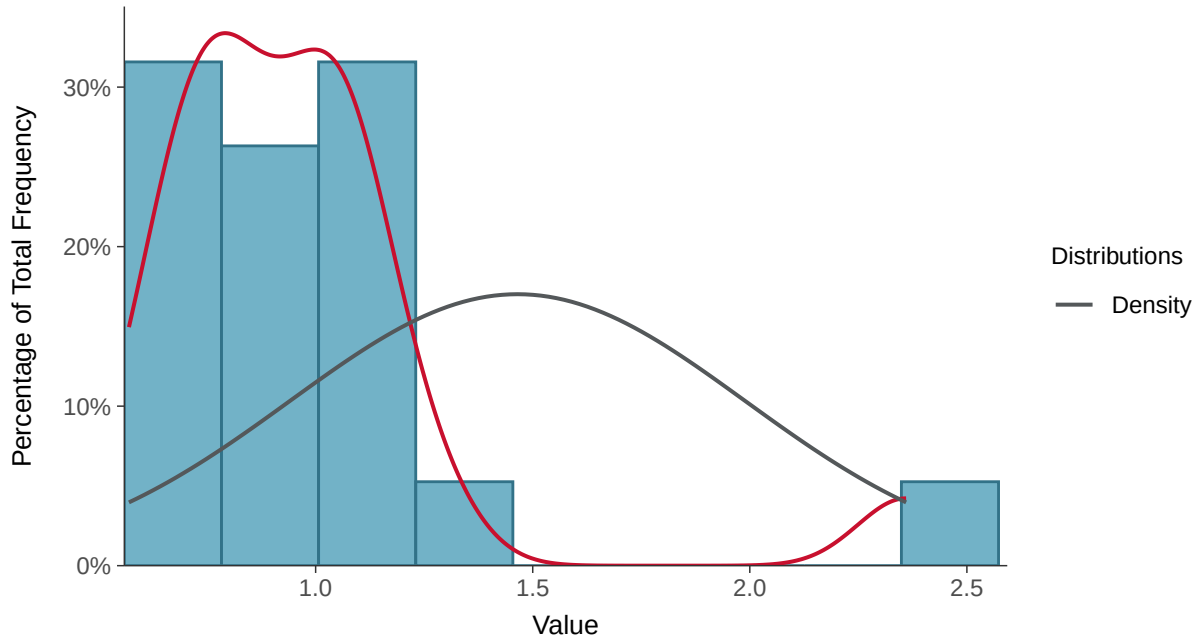
Scatter Plot

Radium 226 and 228, MW-07 (pCi/L)



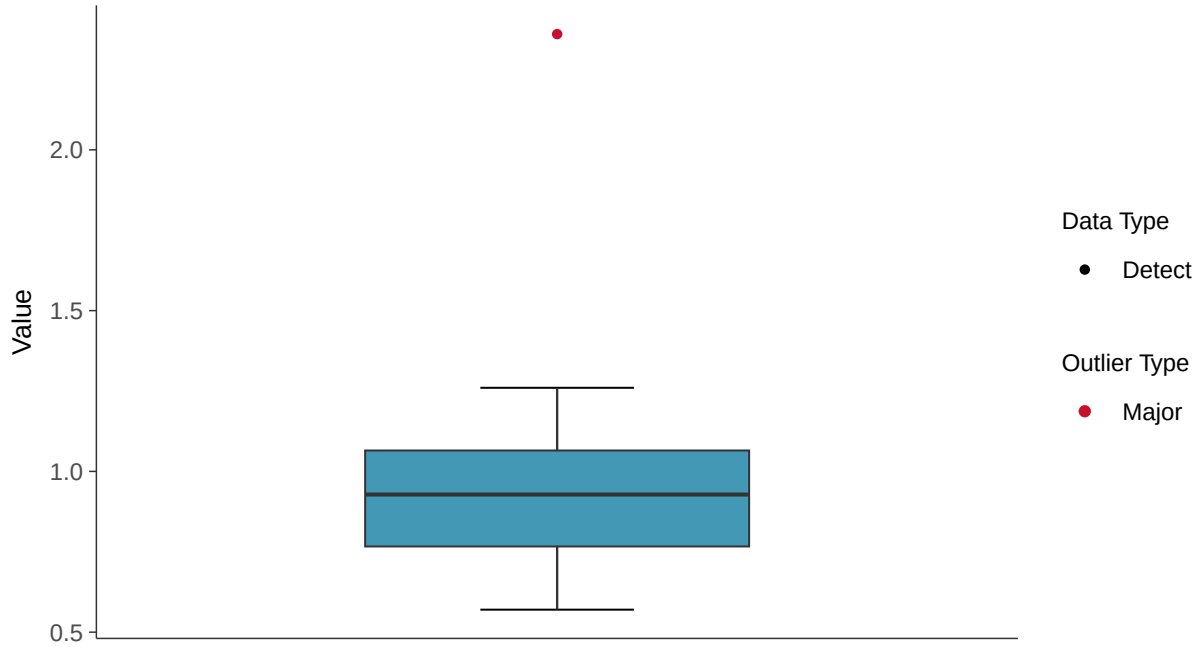
Histogram

Radium 226 and 228, MW-07 (pCi/L)



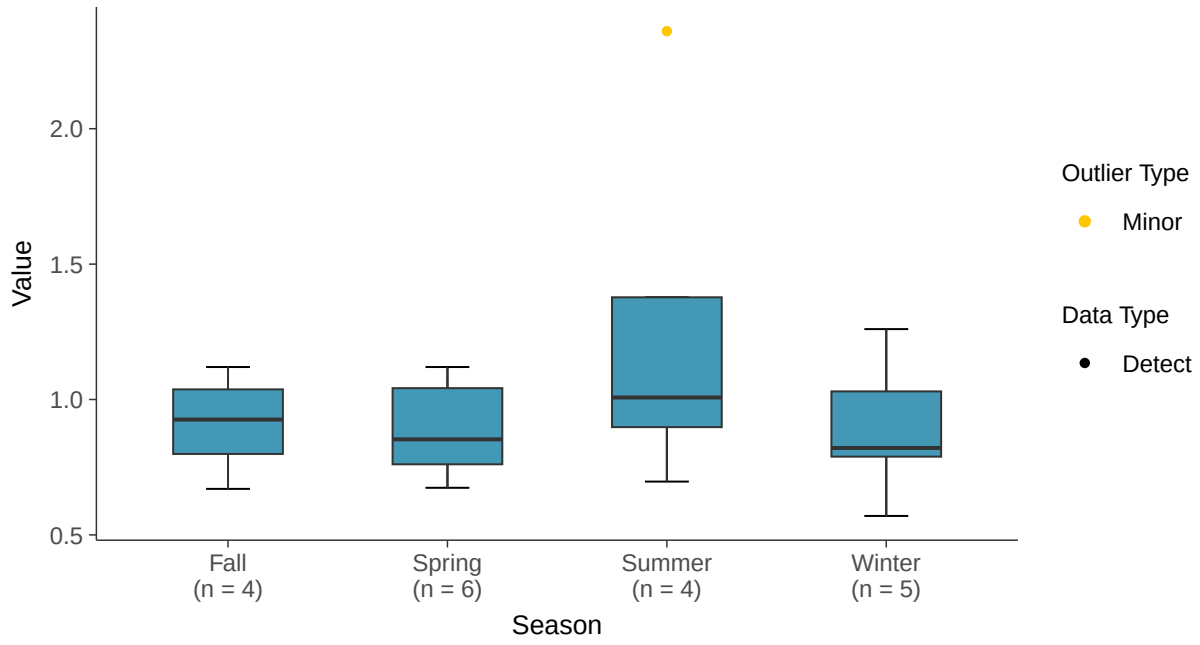
Boxplot

Radium 226 and 228, MW-07 (pCi/L)



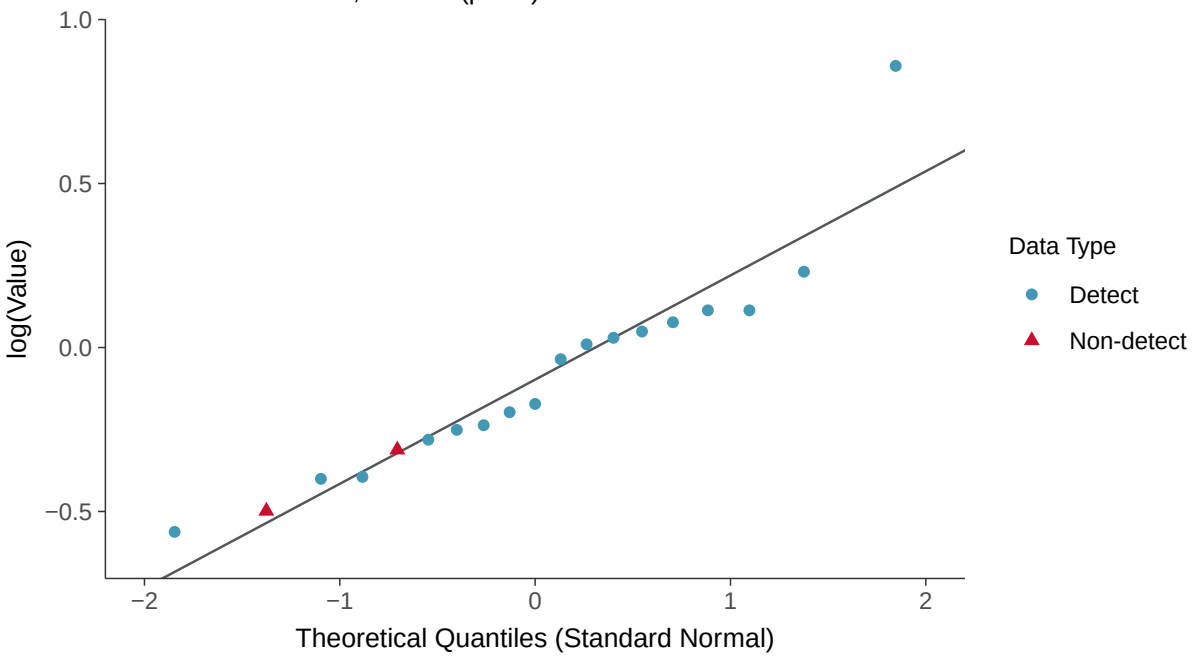
Boxplot by Season

Radium 226 and 228, MW-07 (pCi/L)



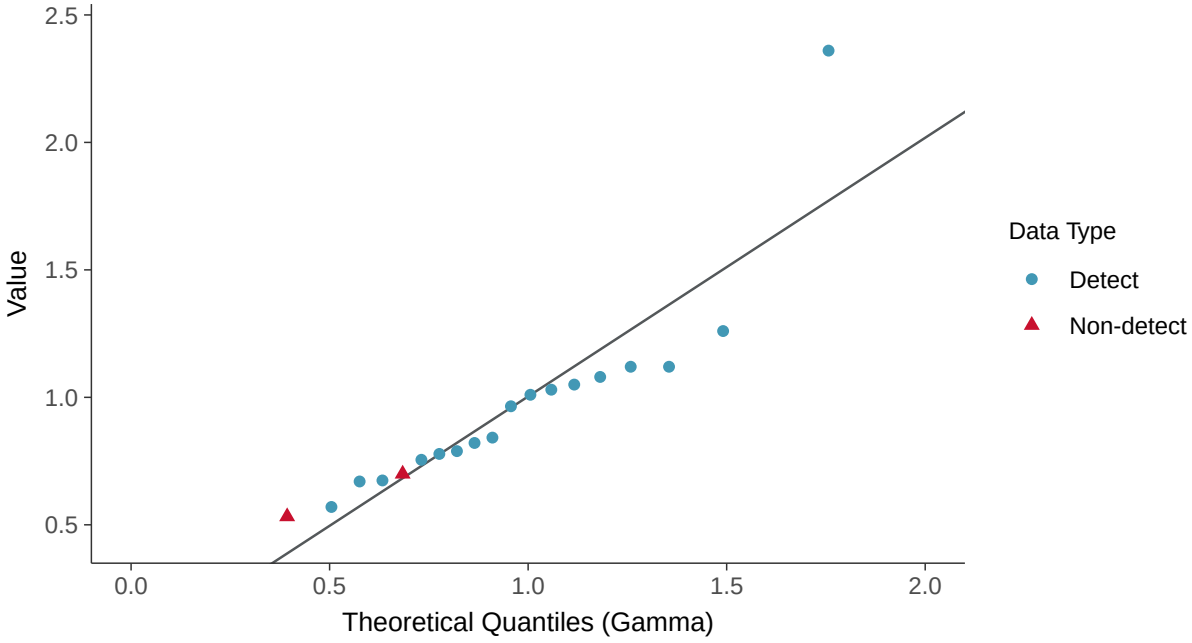
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-07 (pCi/L)



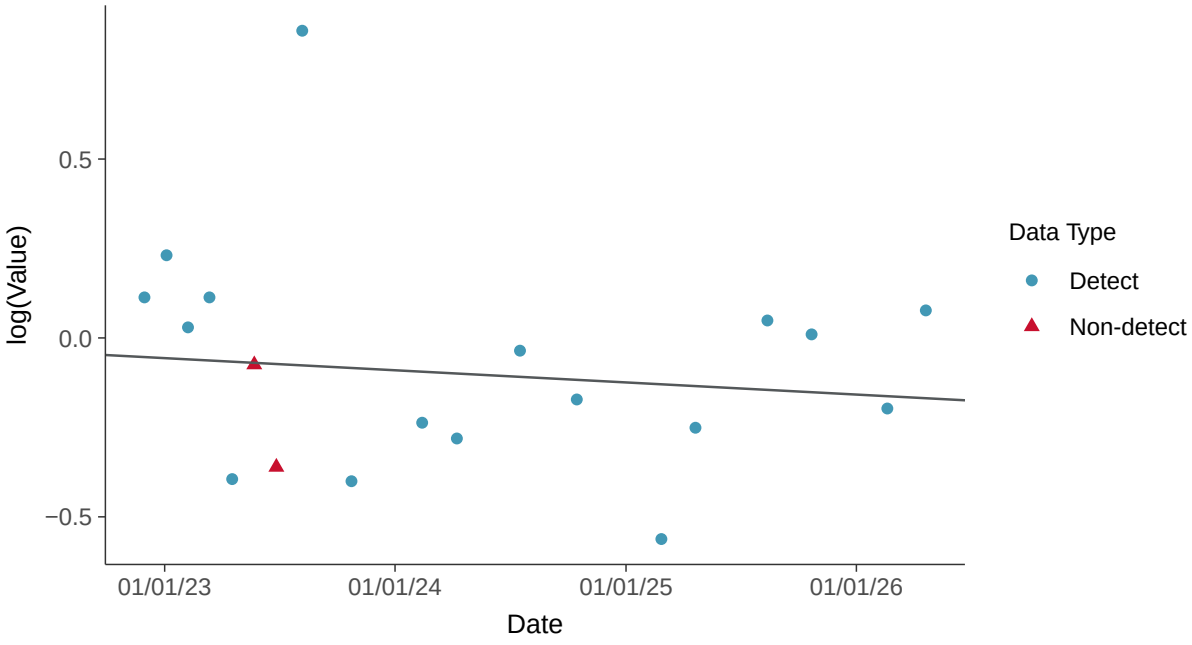
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-07 (pCi/L)



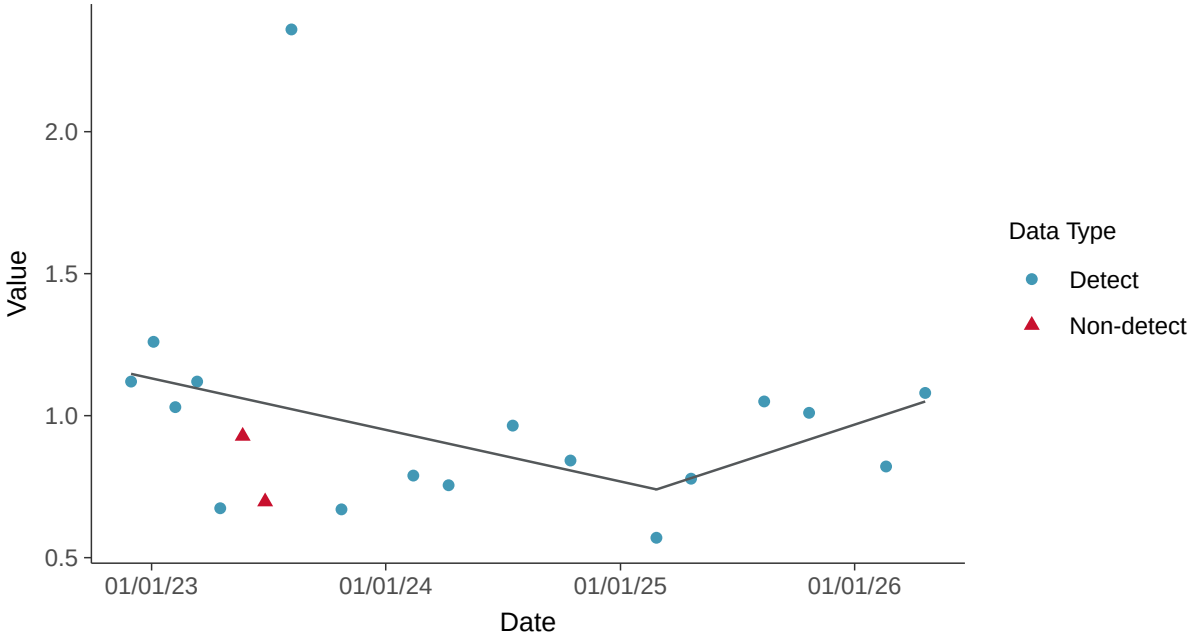
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-07 (pCi/L)



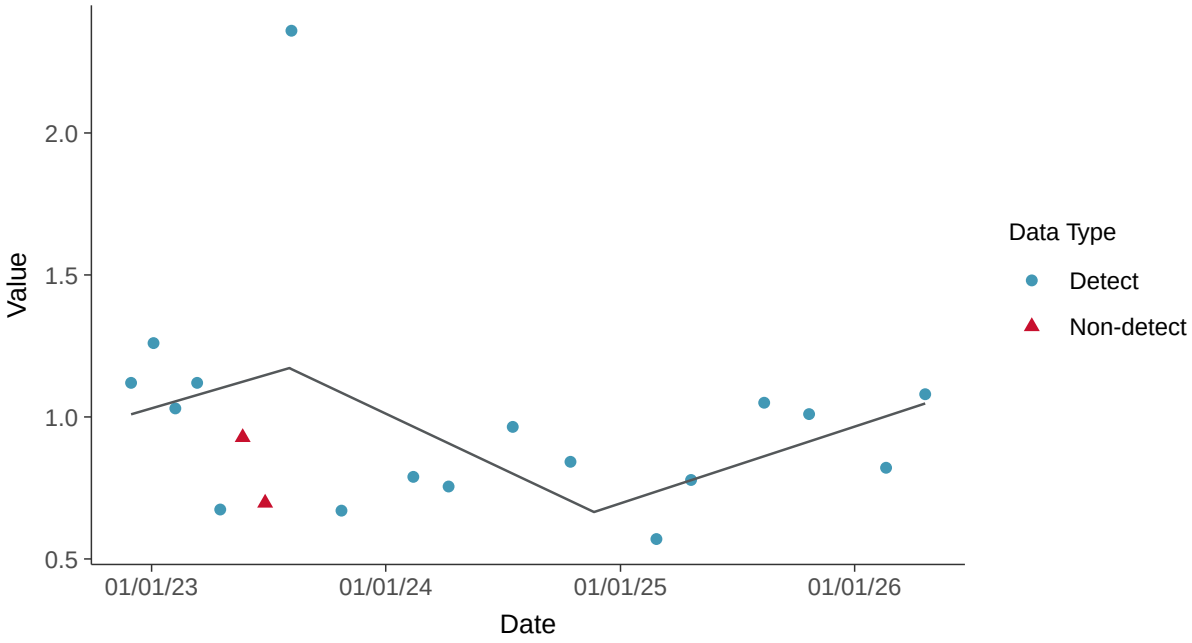
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-07 (pCi/L)



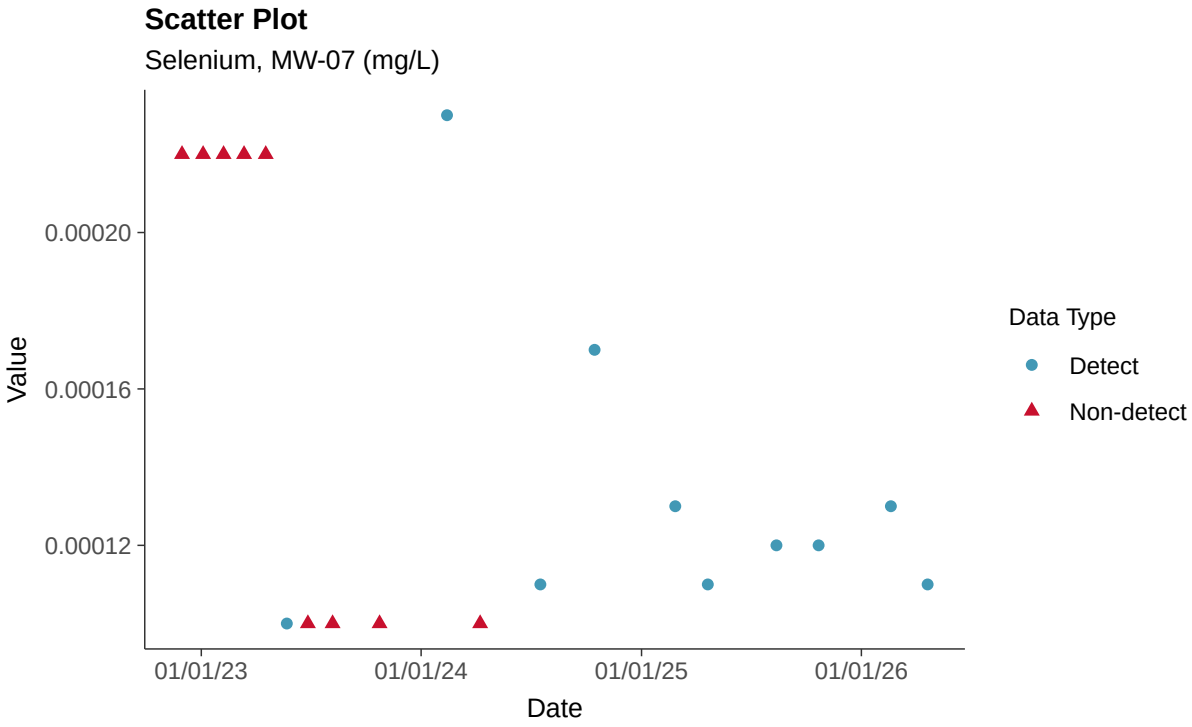
Trend Regression: Piecewise Linear-Linear-Linear

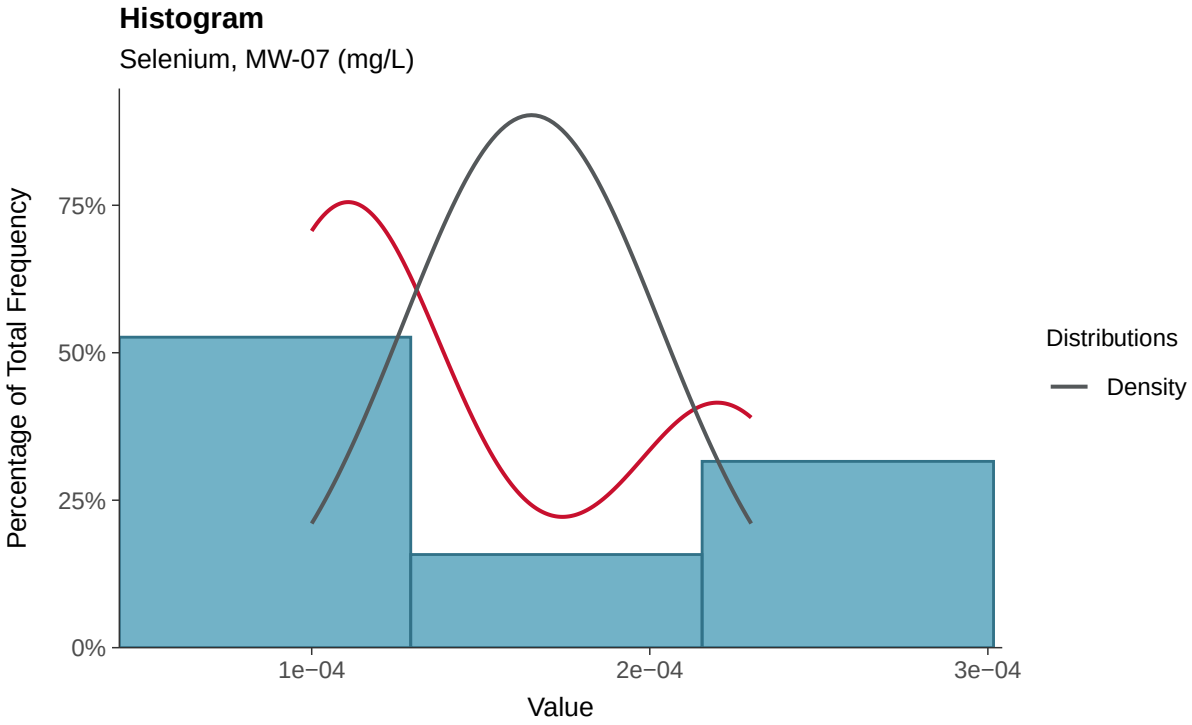
Radium 226 and 228, MW-07 (pCi/L)



Appendix IV: Selenium, MW-07

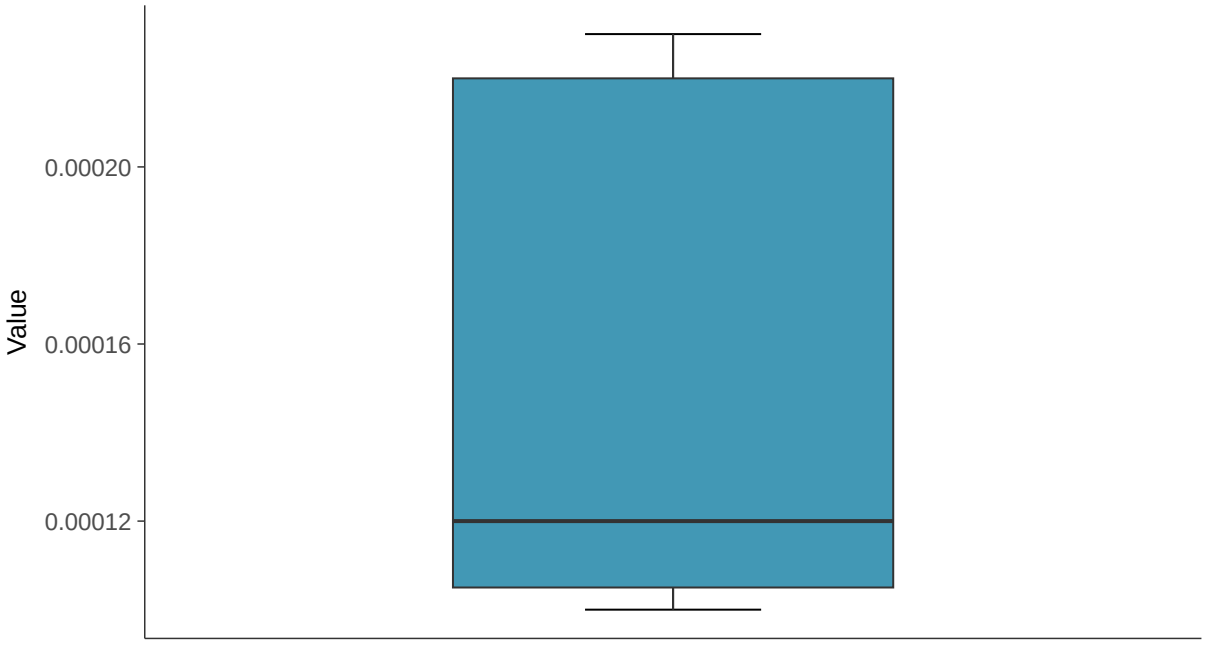
ID: 17_1_4_122





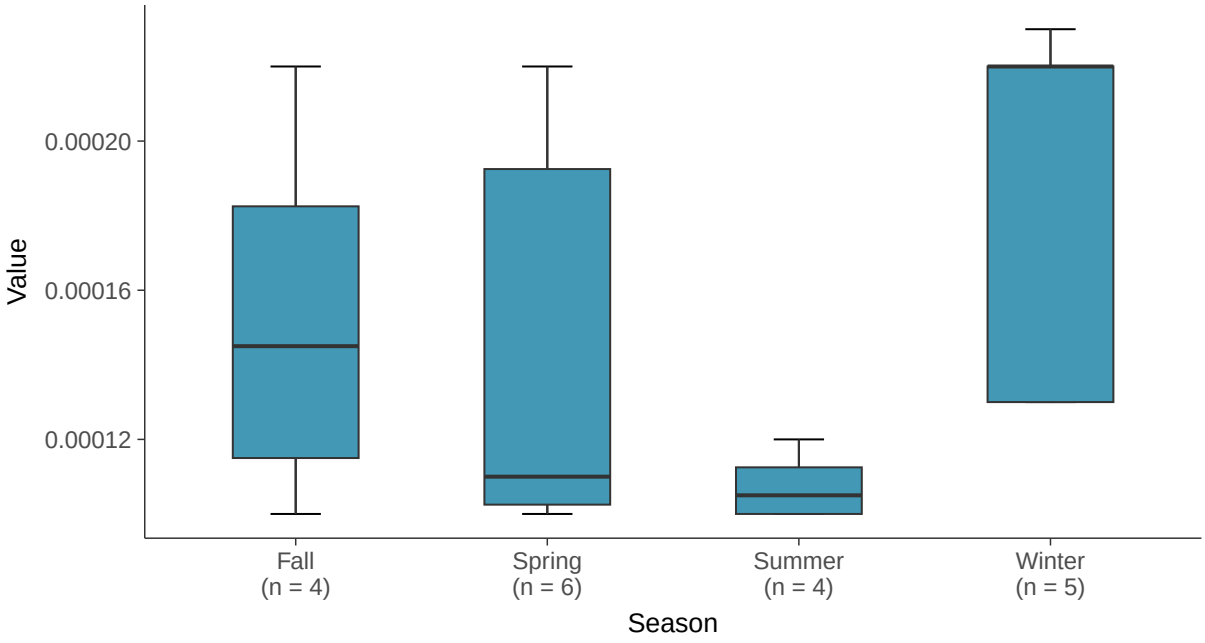
Boxplot

Selenium, MW-07 (mg/L)



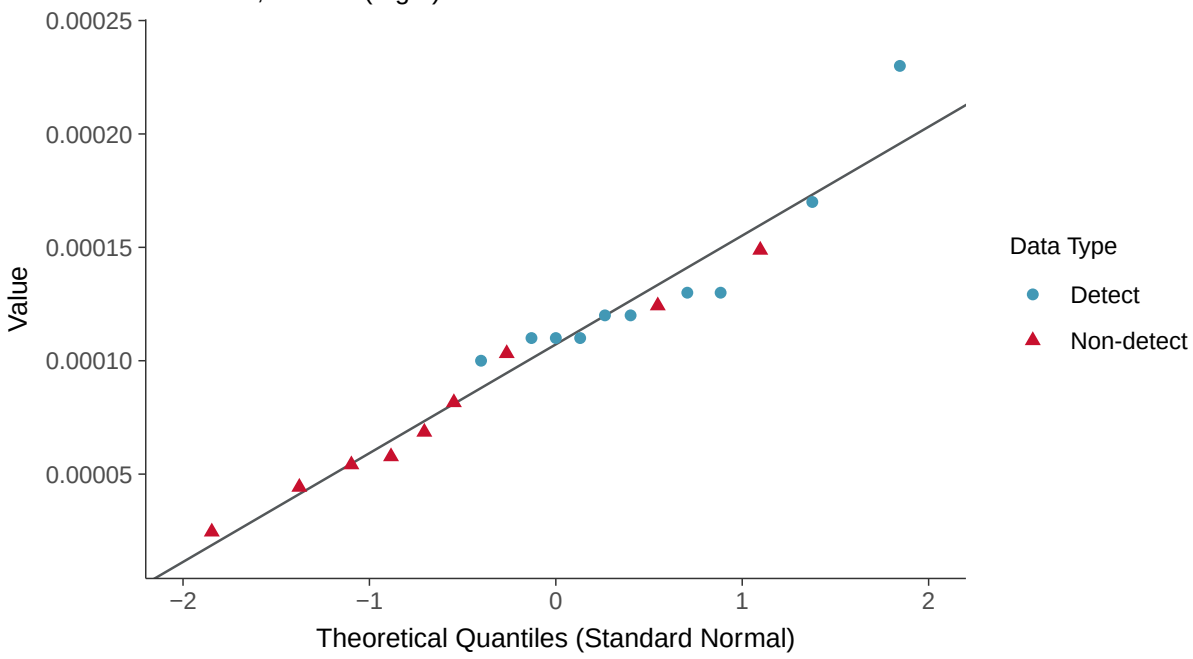
Boxplot by Season

Selenium, MW-07 (mg/L)



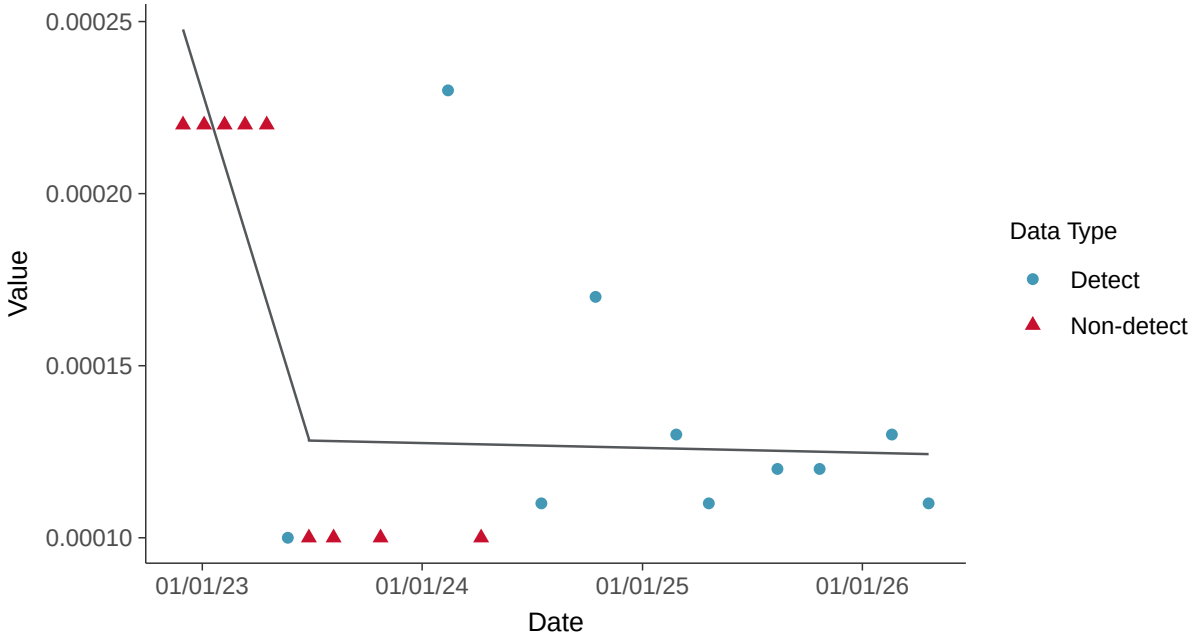
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-07 (mg/L)



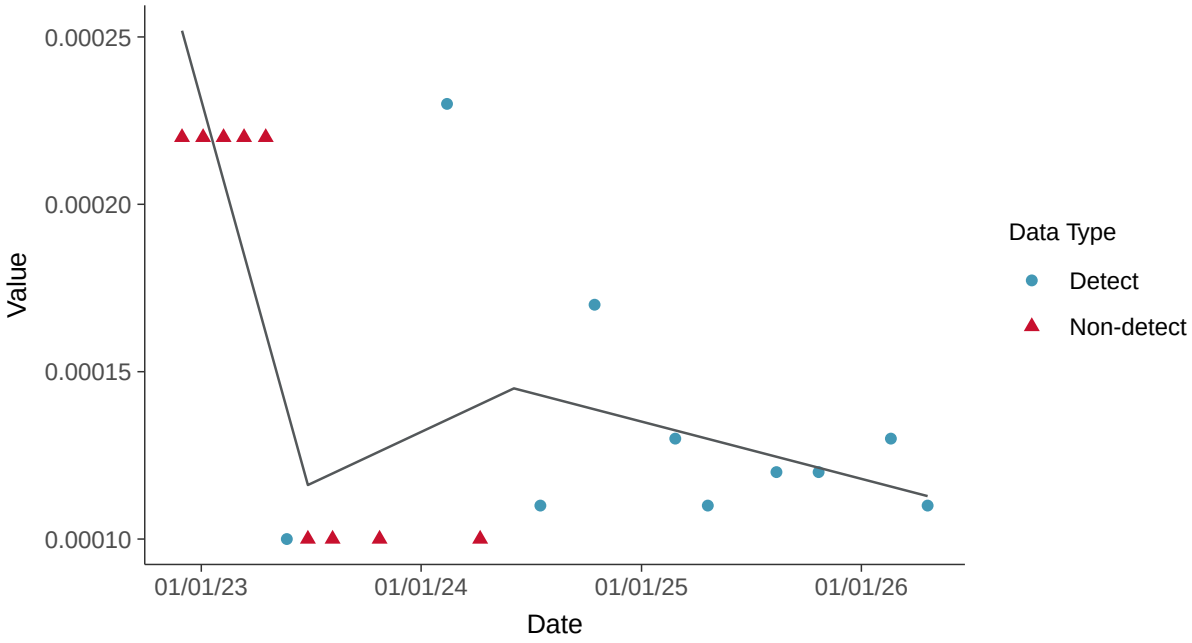
Trend Regression: Piecewise Linear-Linear

Selenium, MW-07 (mg/L)



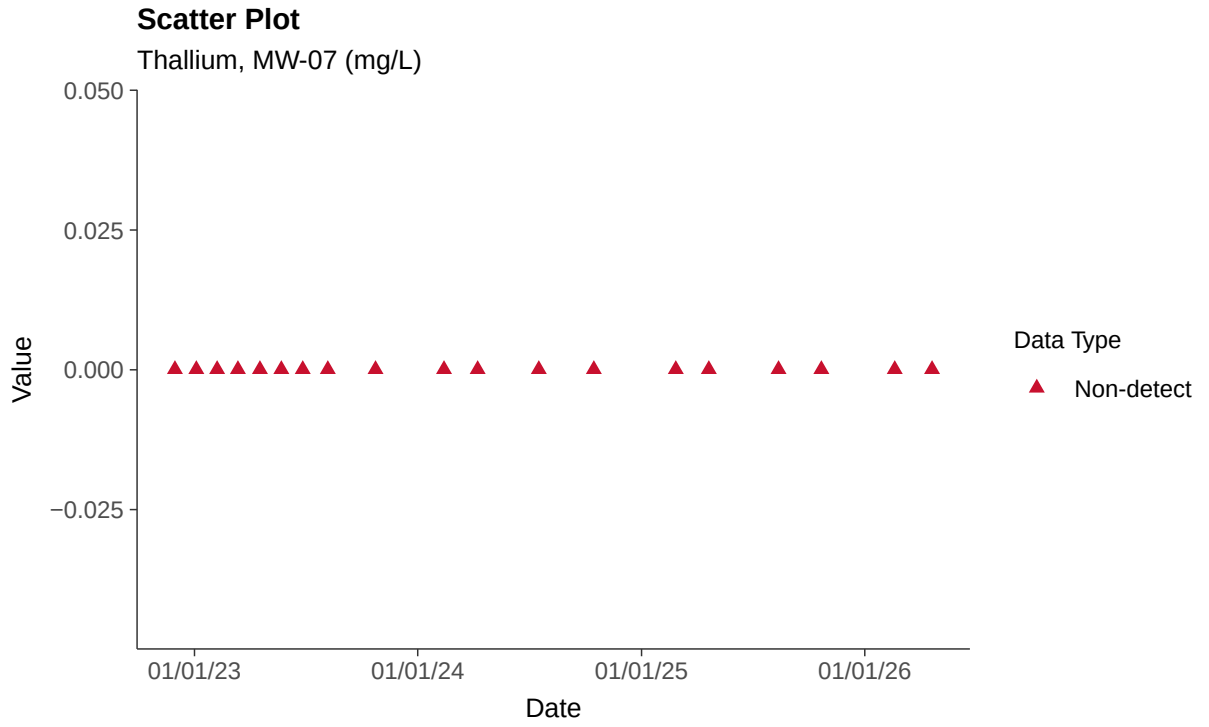
Trend Regression: Piecewise Linear-Linear-Linear

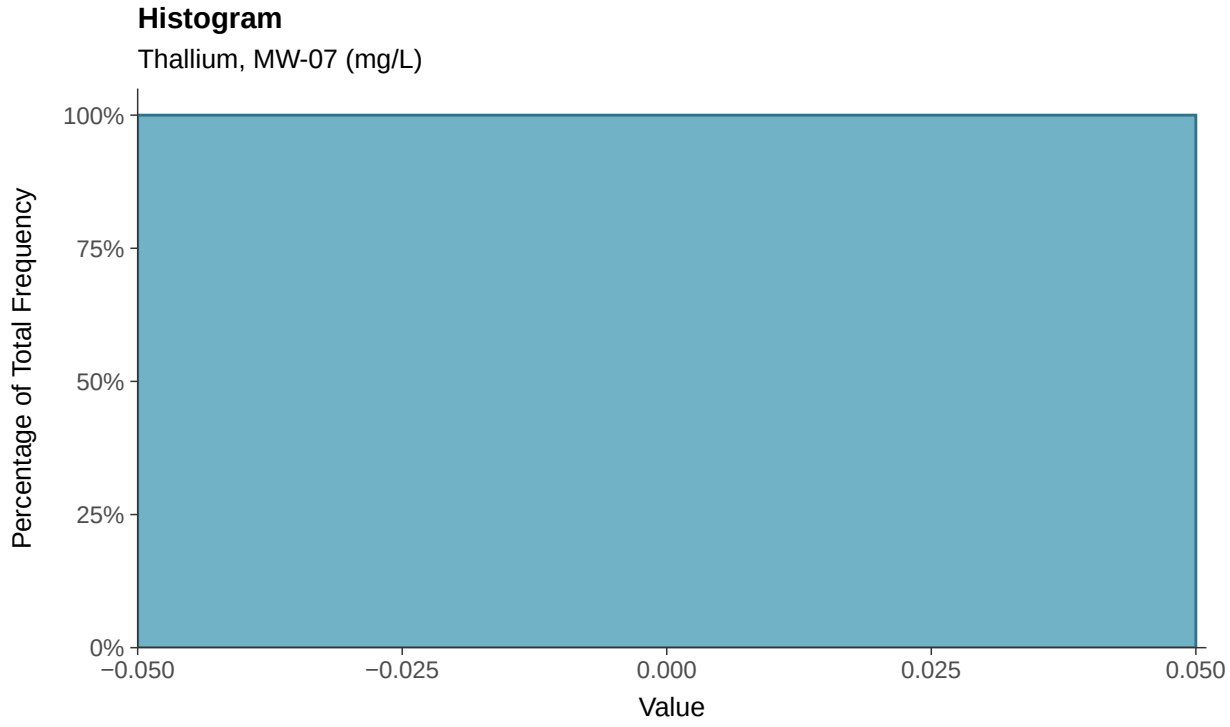
Selenium, MW-07 (mg/L)



Appendix IV: Thallium, MW-07

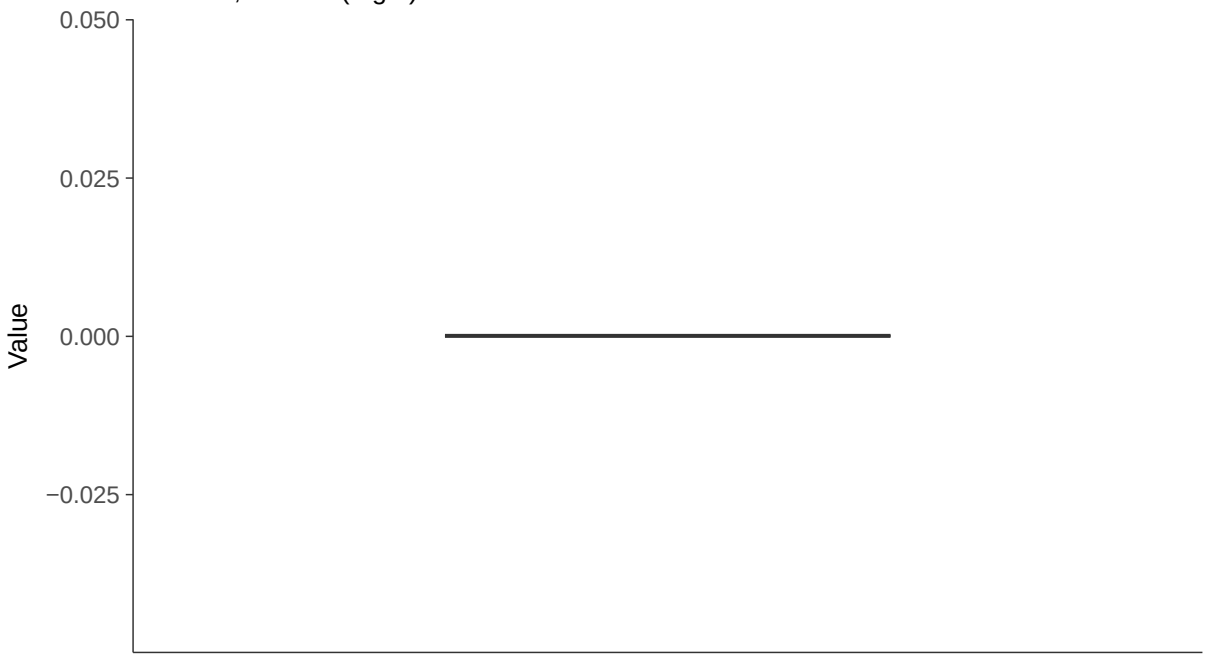
ID: 17_1_4_125





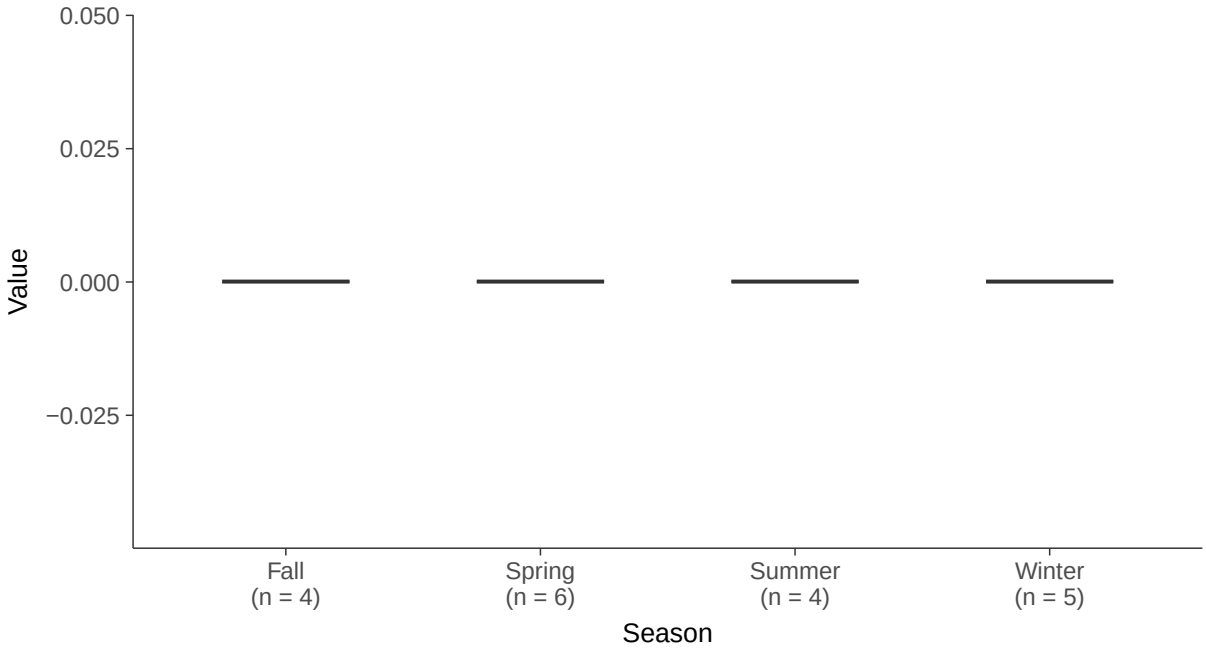
Boxplot

Thallium, MW-07 (mg/L)



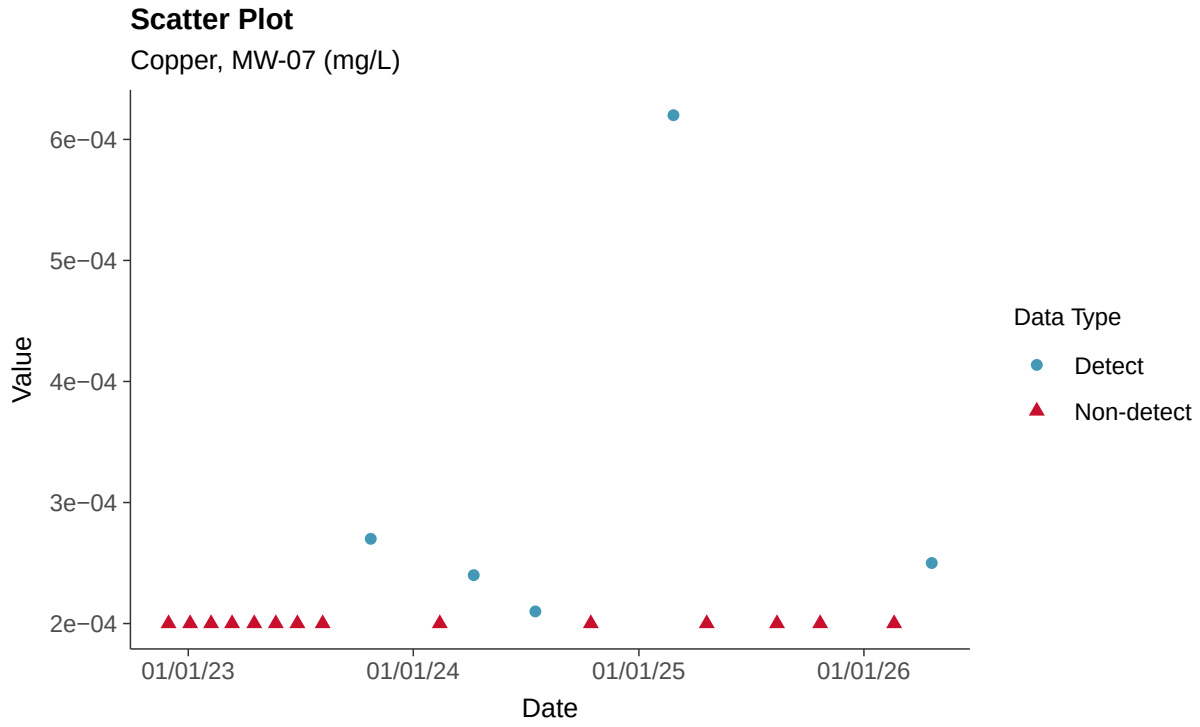
Boxplot by Season

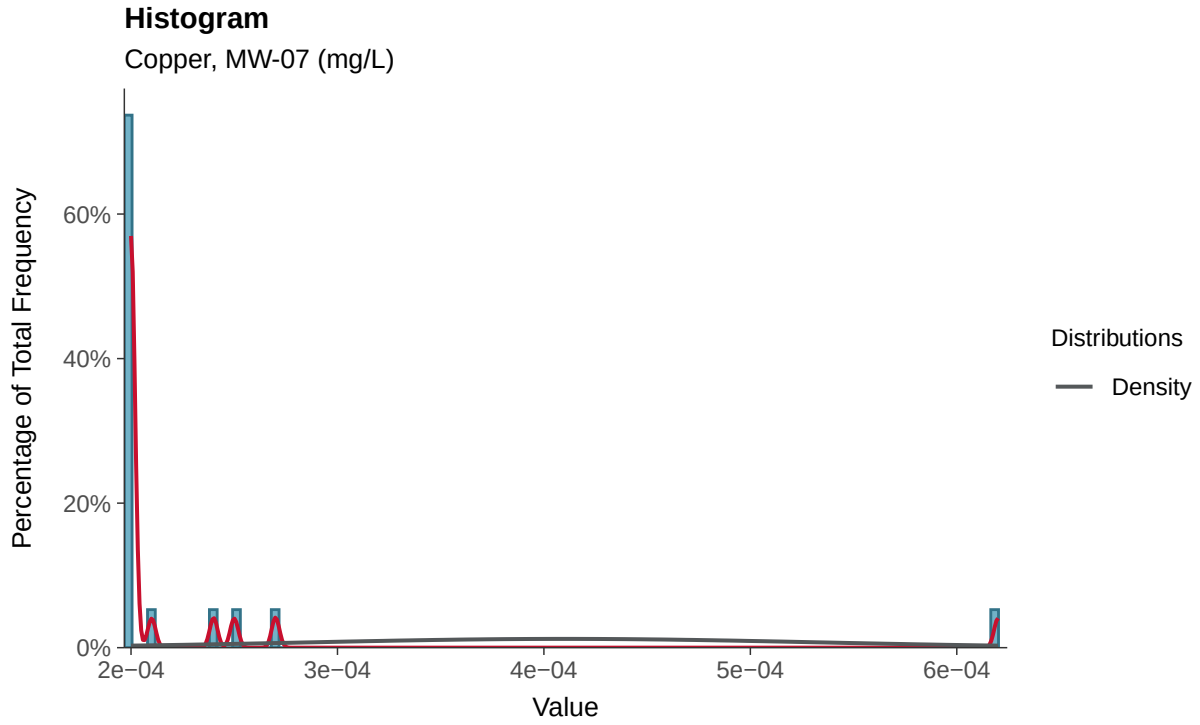
Thallium, MW-07 (mg/L)



Part 115: Copper, MW-07

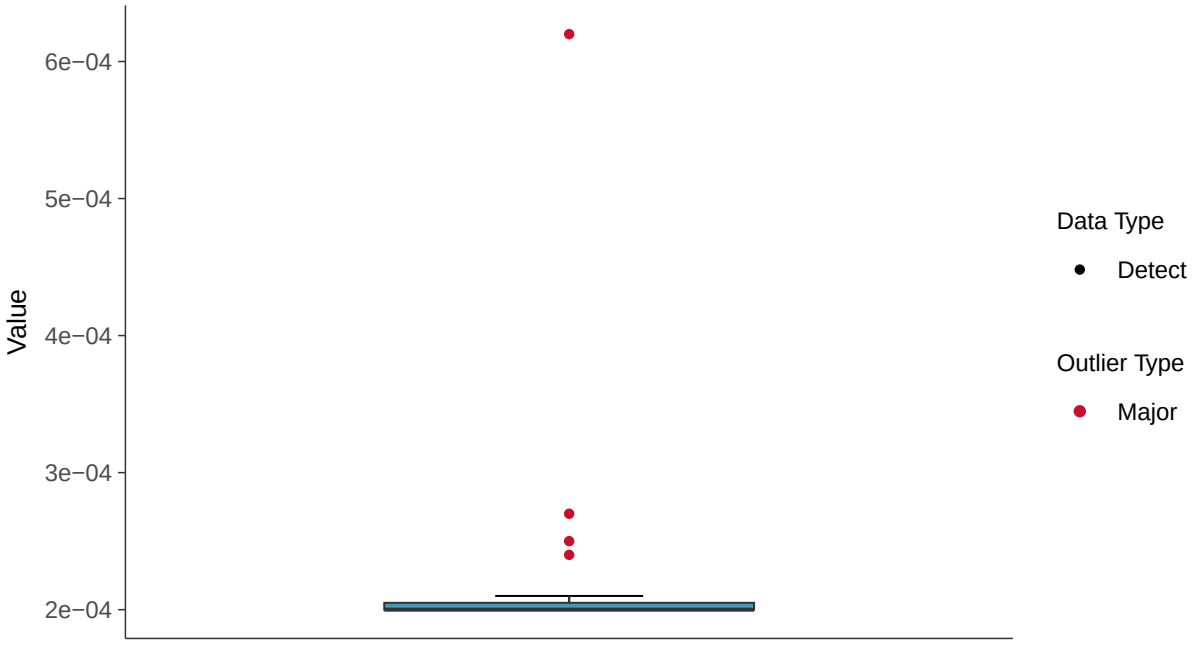
ID: 17_1_5_111





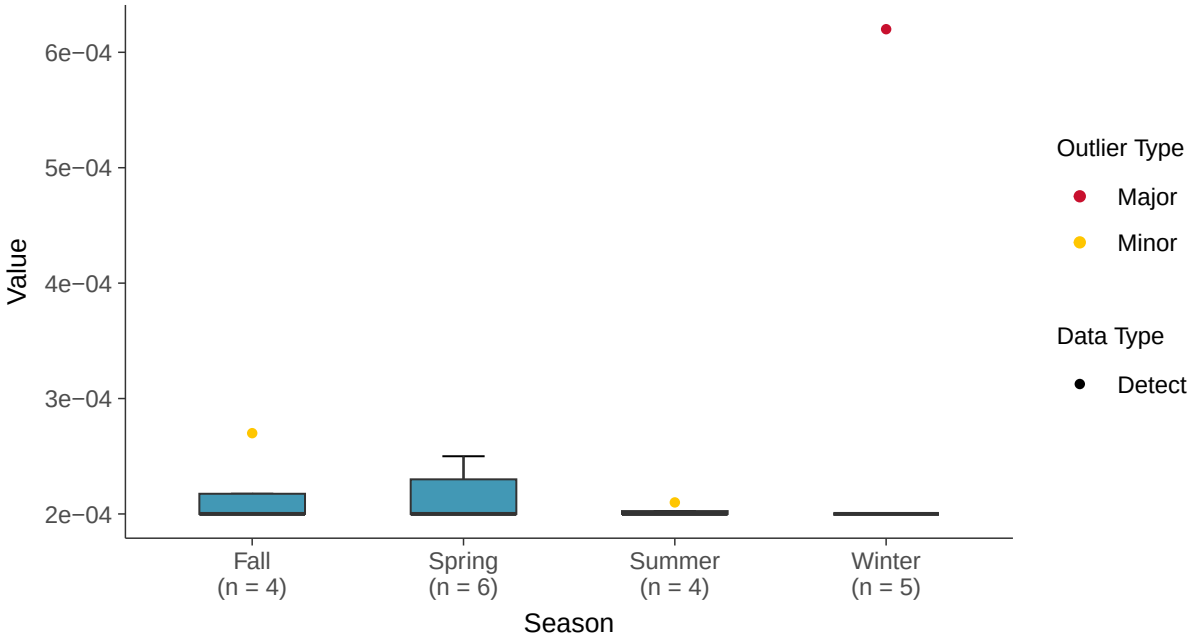
Boxplot

Copper, MW-07 (mg/L)



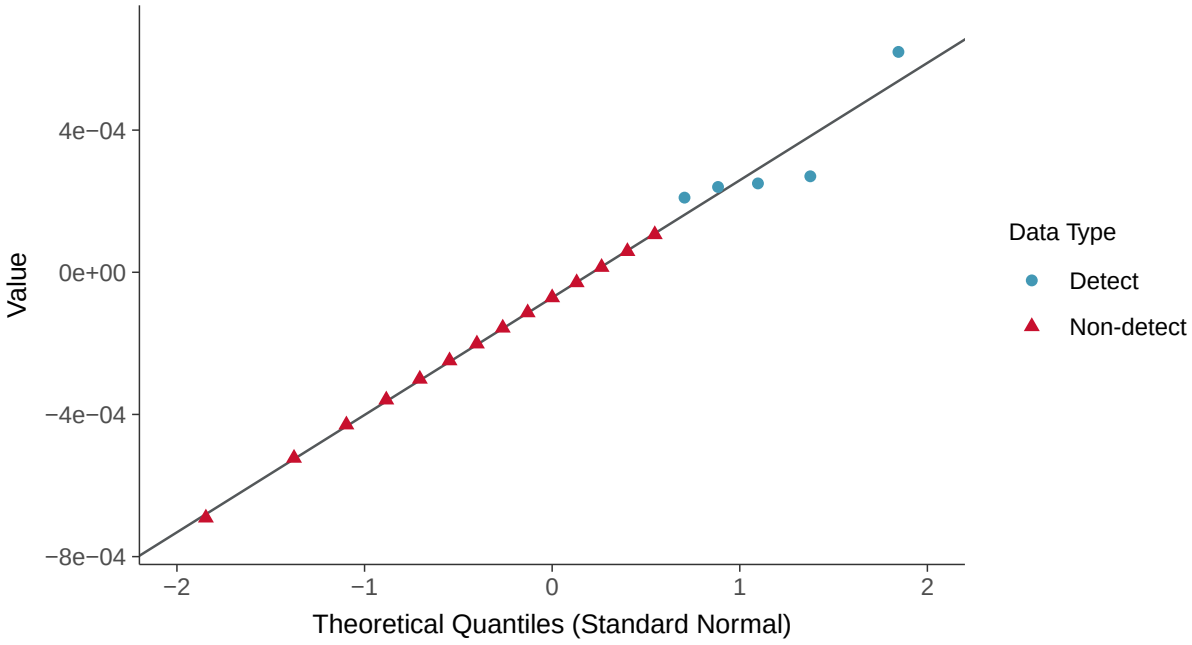
Boxplot by Season

Copper, MW-07 (mg/L)



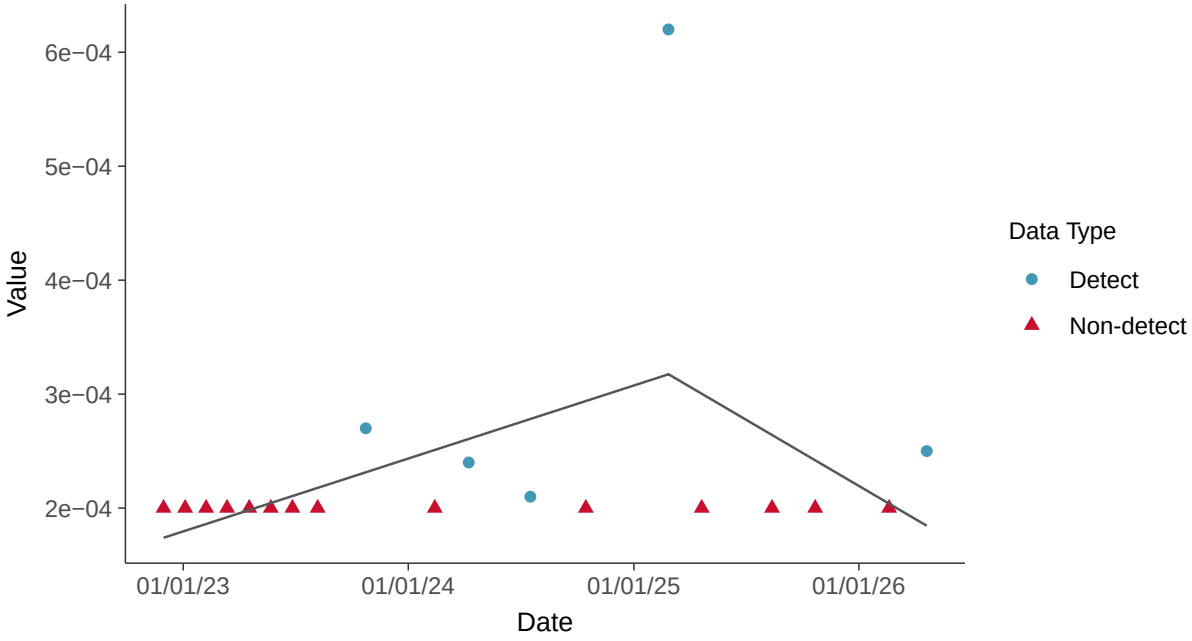
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-07 (mg/L)



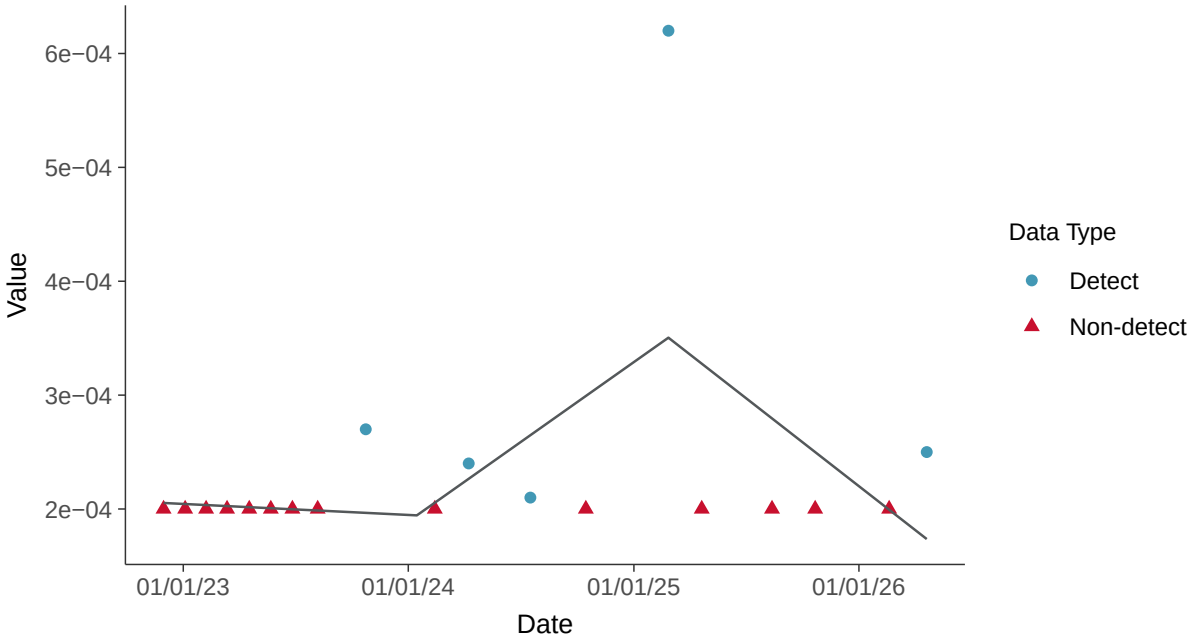
Trend Regression: Piecewise Linear-Linear

Copper, MW-07 (mg/L)



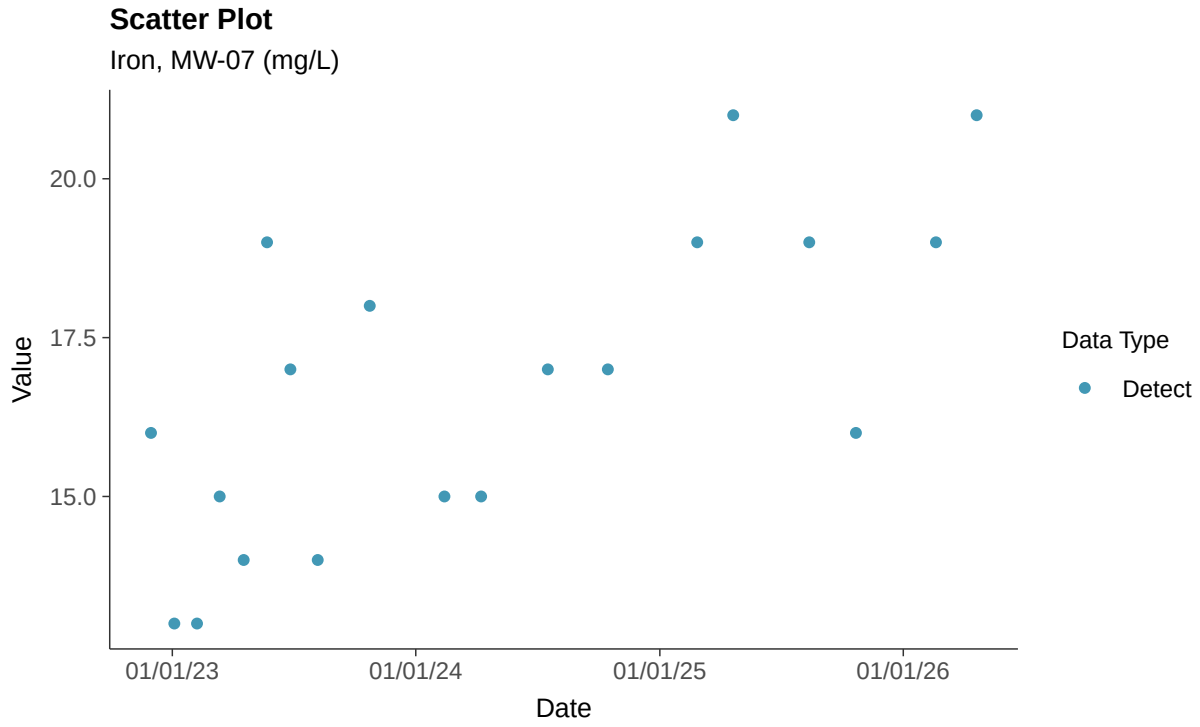
Trend Regression: Piecewise Linear-Linear-Linear

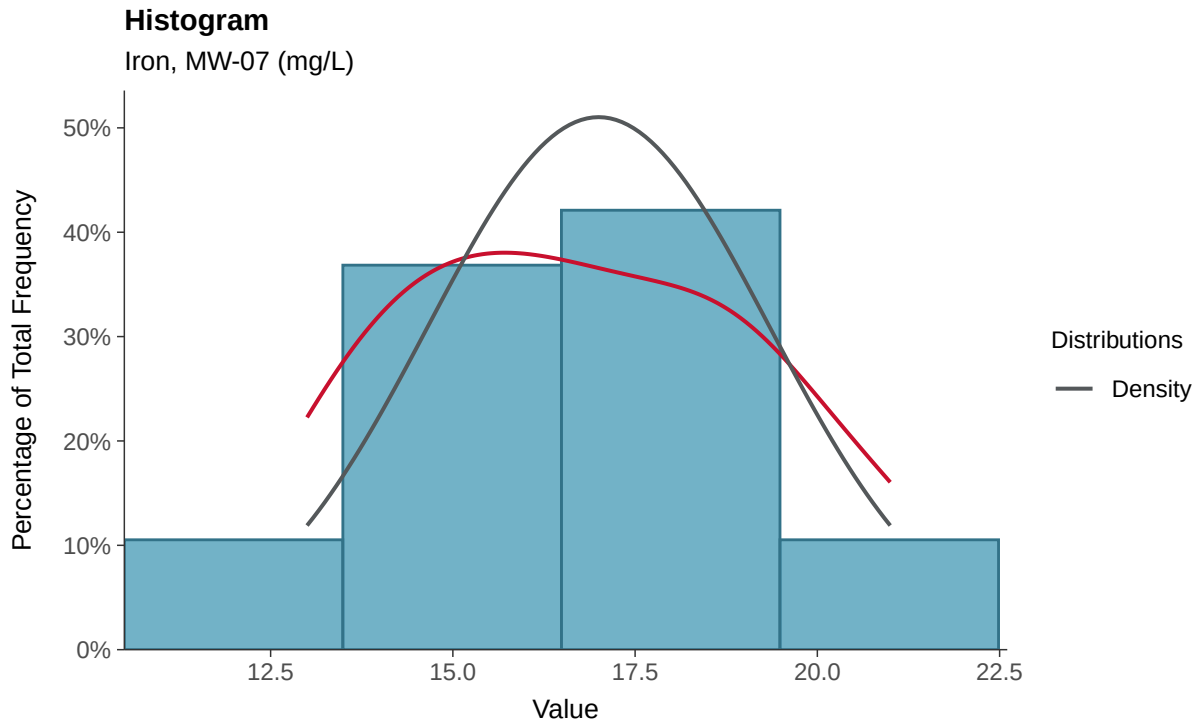
Copper, MW-07 (mg/L)



Part 115: Iron, MW-07

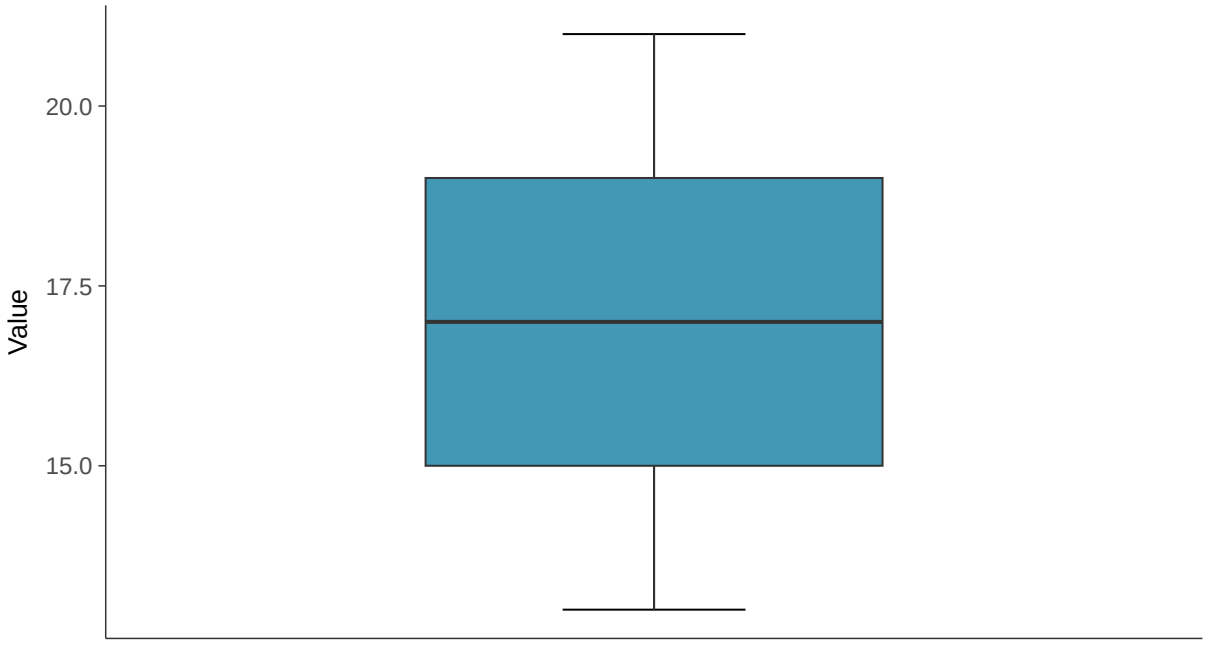
ID: 17_1_5_114





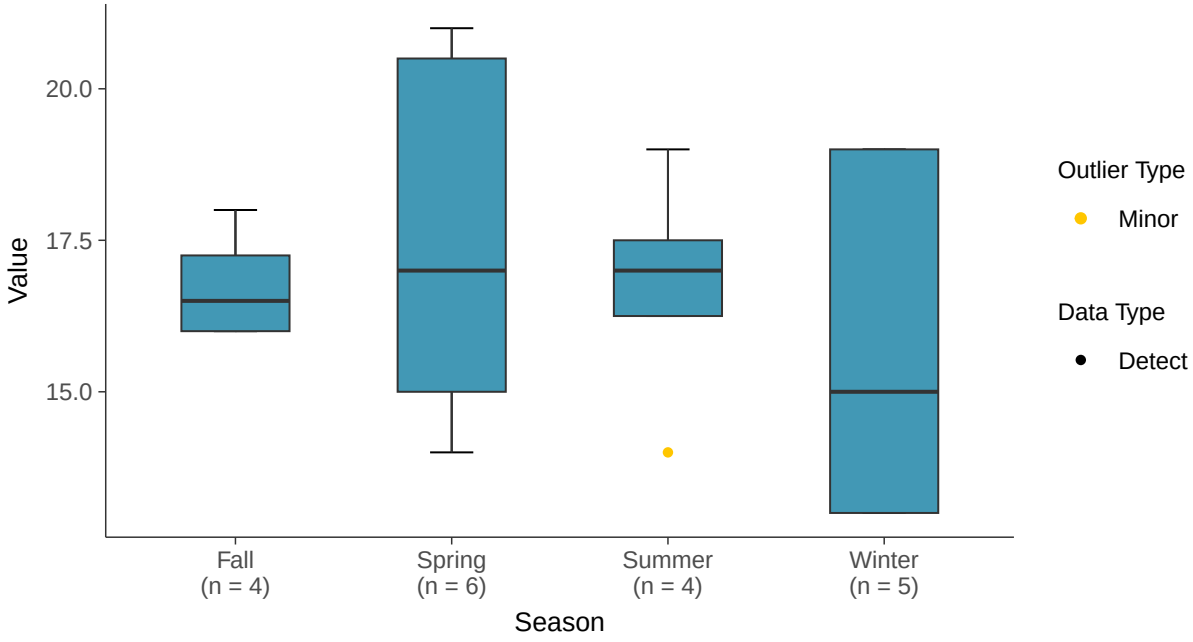
Boxplot

Iron, MW-07 (mg/L)



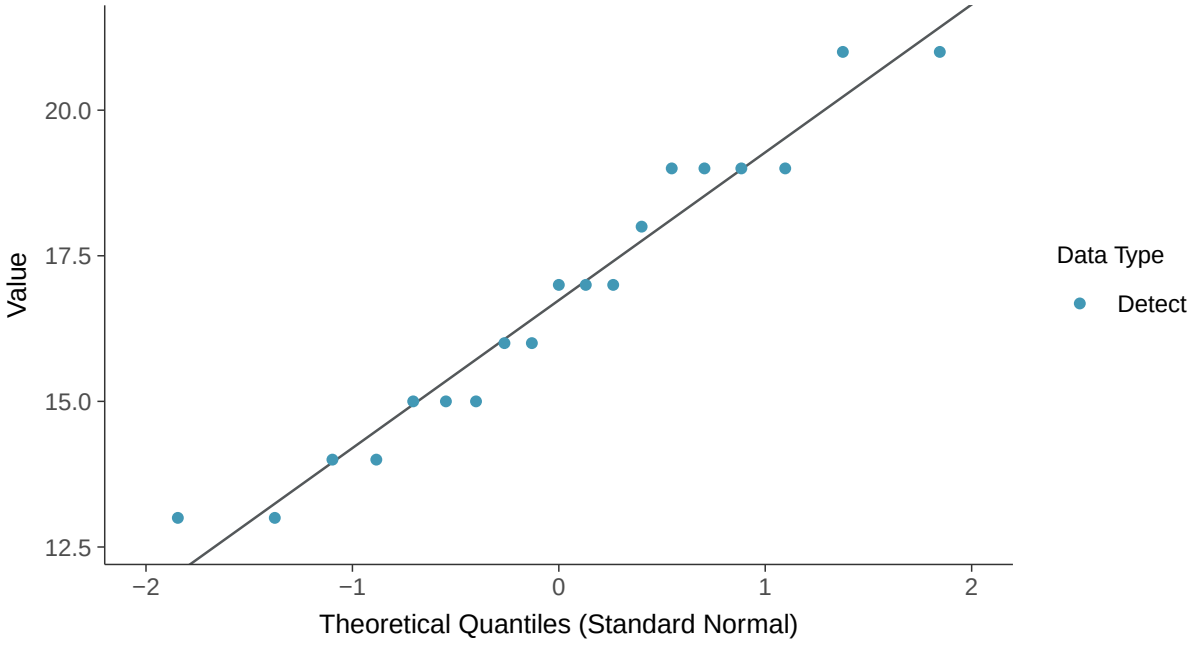
Boxplot by Season

Iron, MW-07 (mg/L)



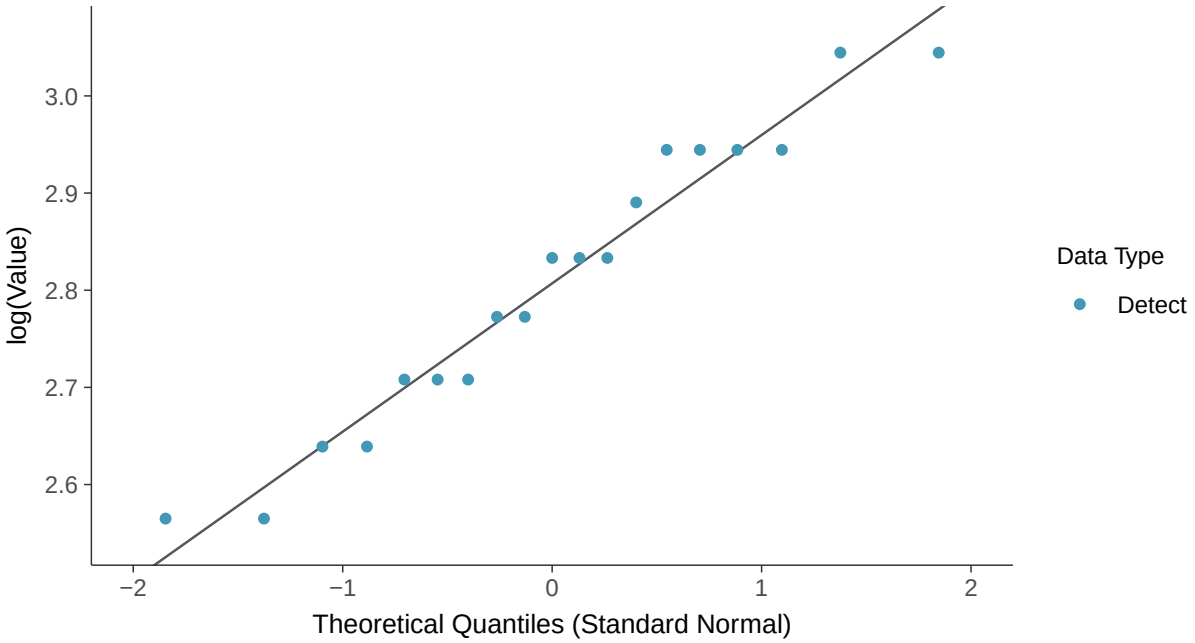
Normal Q-Q plot

Iron, MW-07 (mg/L)



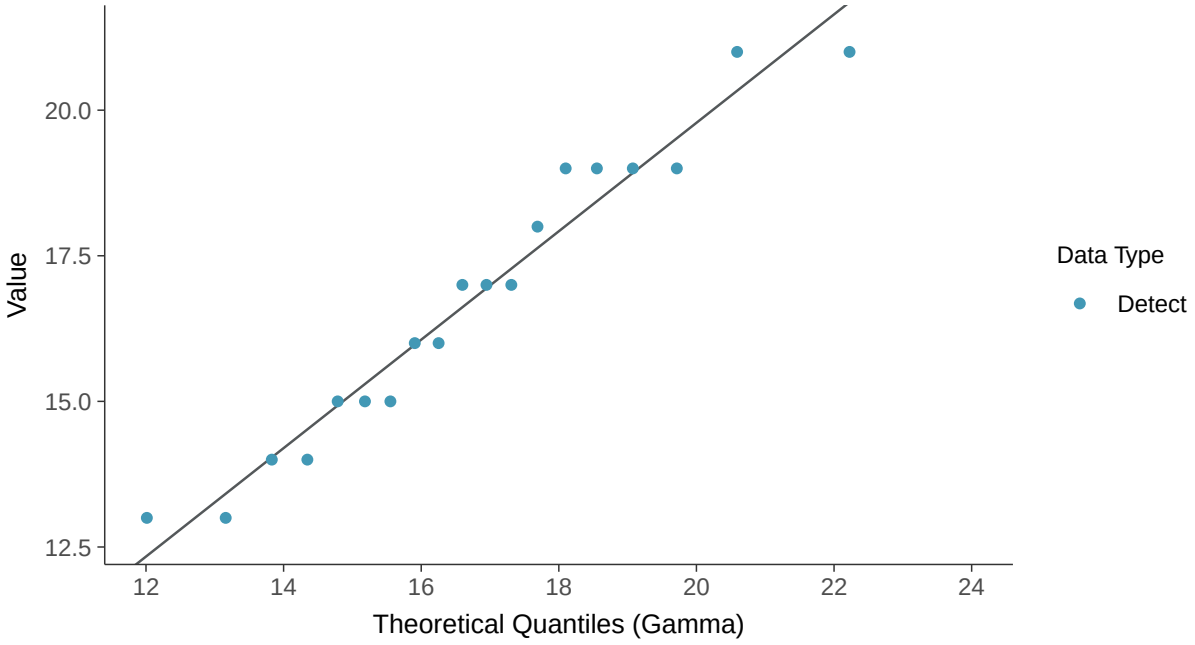
Lognormal Q-Q plot

Iron, MW-07 (mg/L)



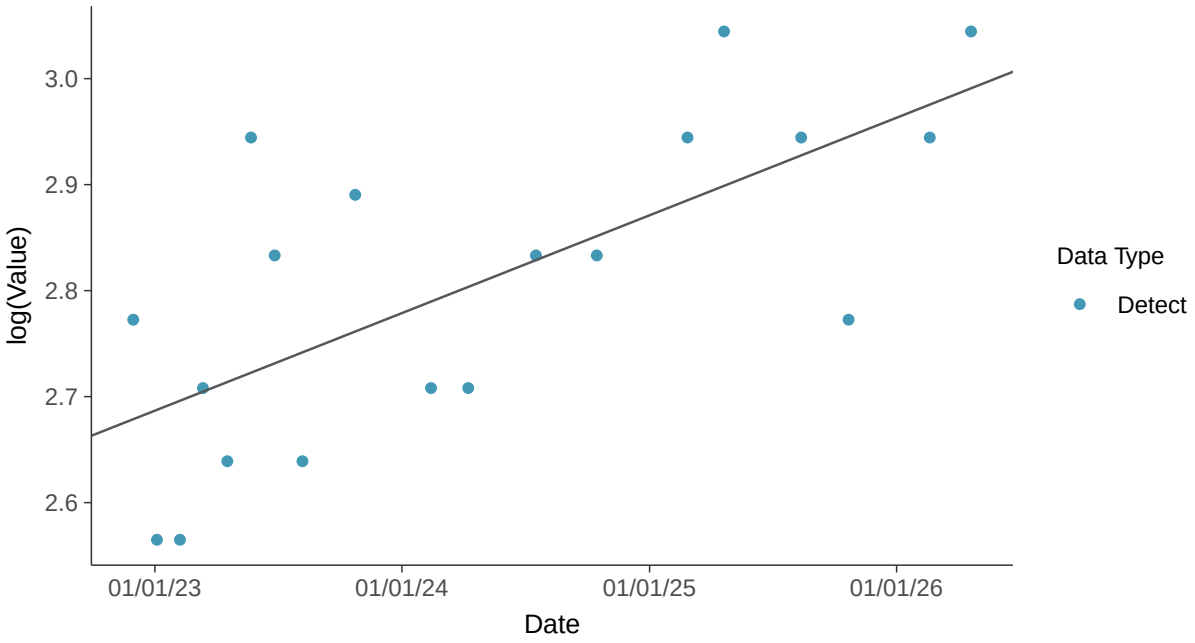
Gamma Q-Q plot

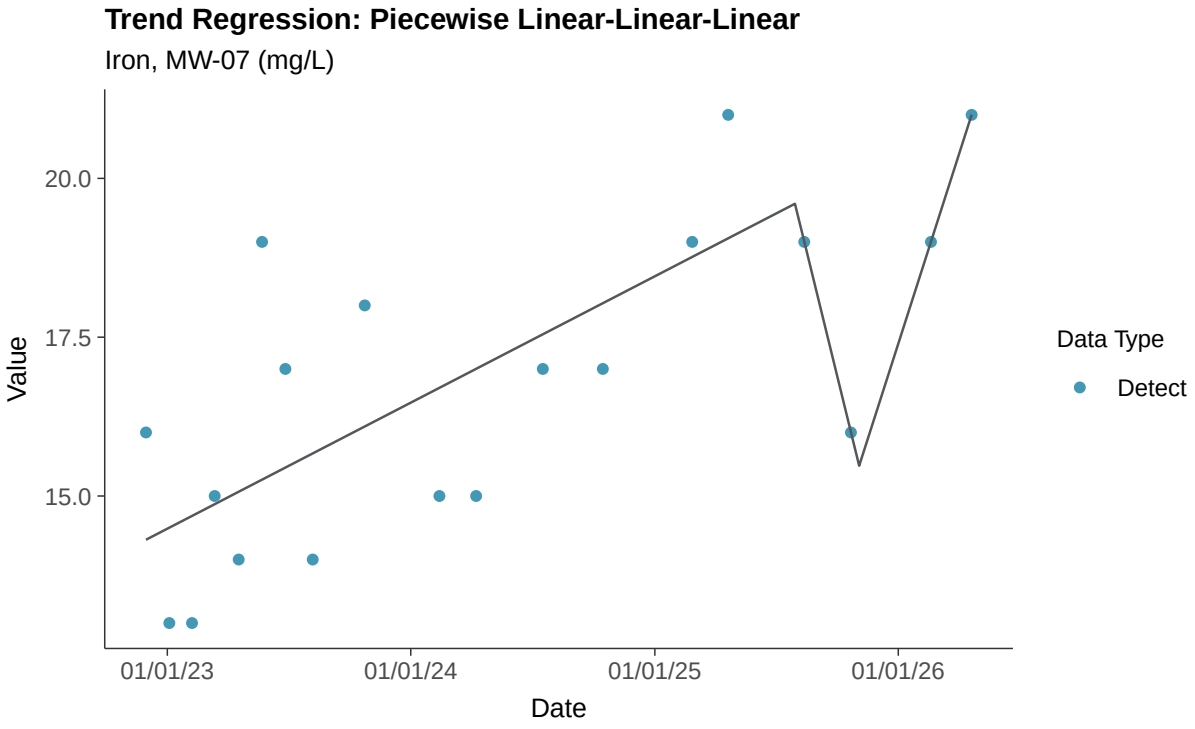
Iron, MW-07 (mg/L)



Trend Regression: Lognormal MLE

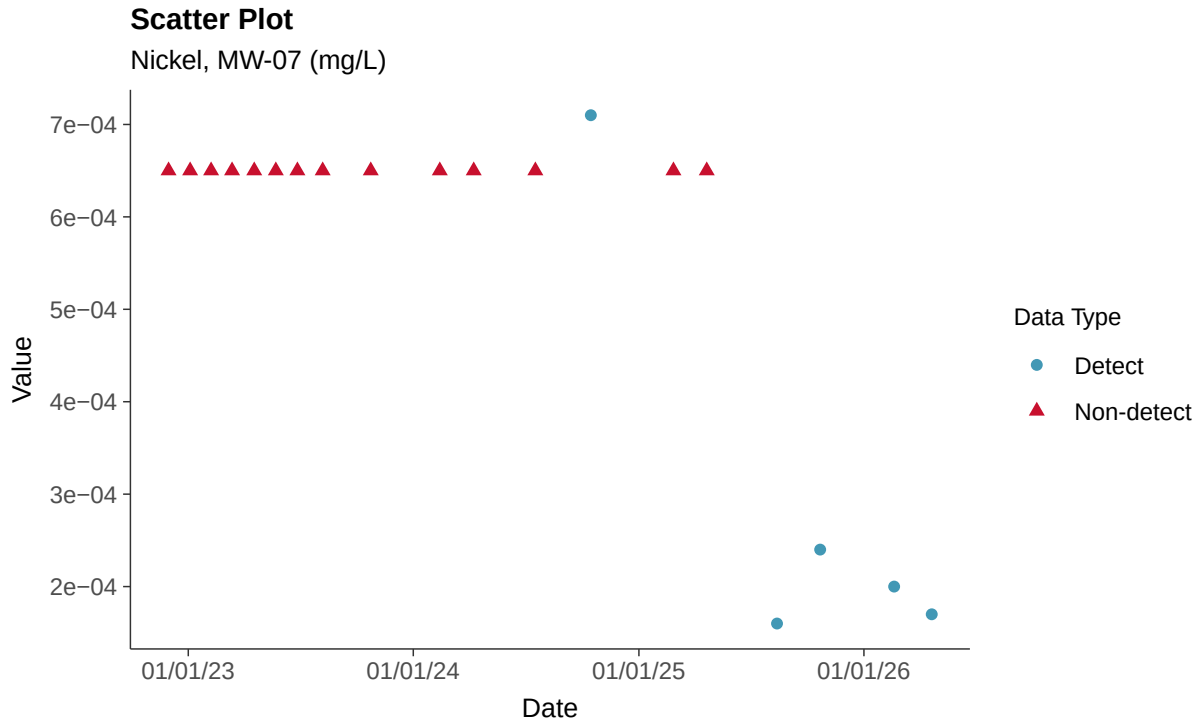
Iron, MW-07 (mg/L)

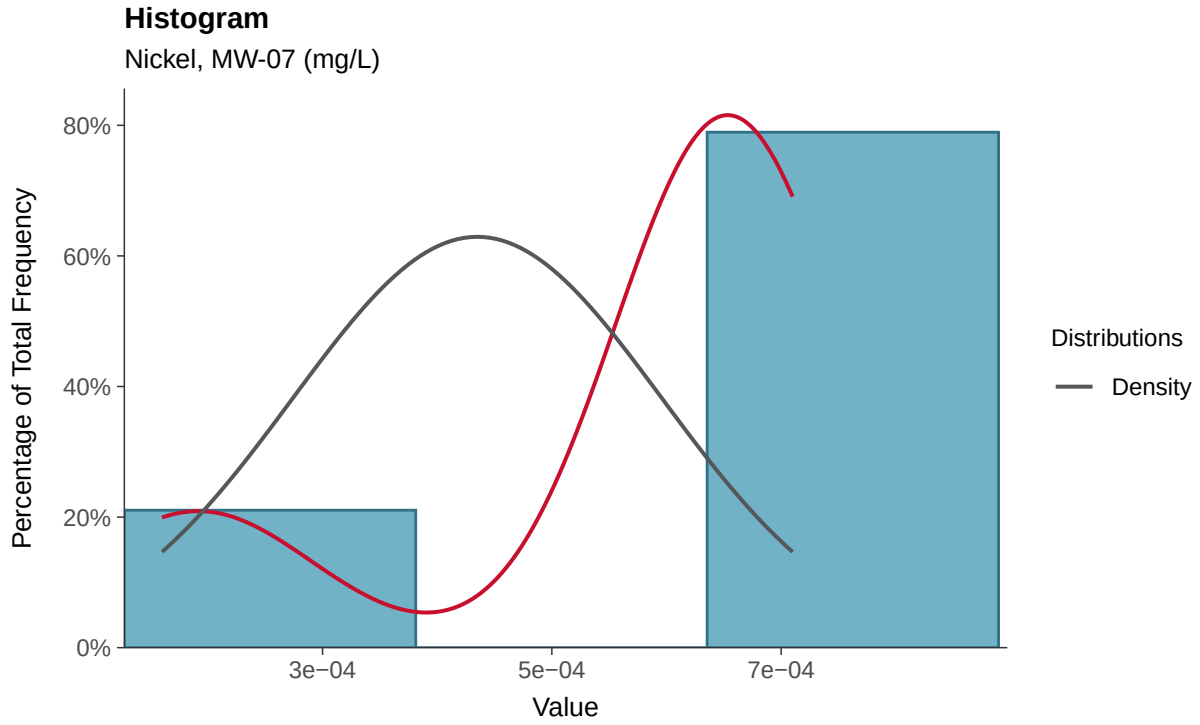



Trend Regression: Piecewise Linear-Linear-Linear
Iron, MW-07 (mg/L)
Value
20.0
17.5
15.0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Part 115: Nickel, MW-07

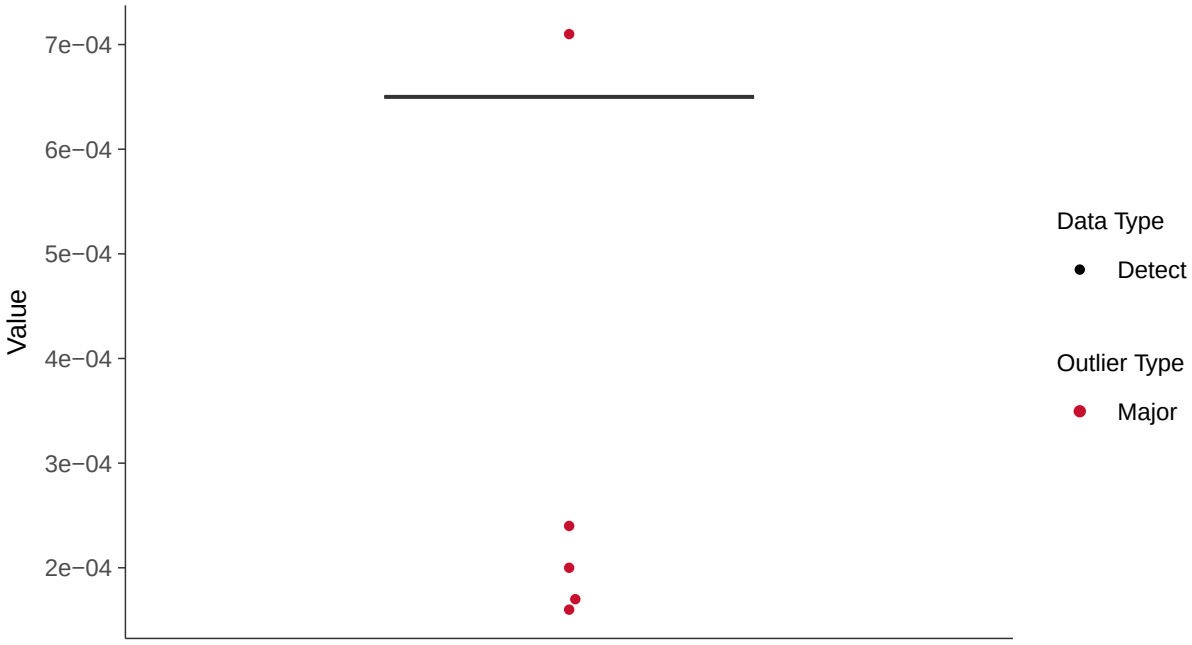
ID: 17_1_5_119





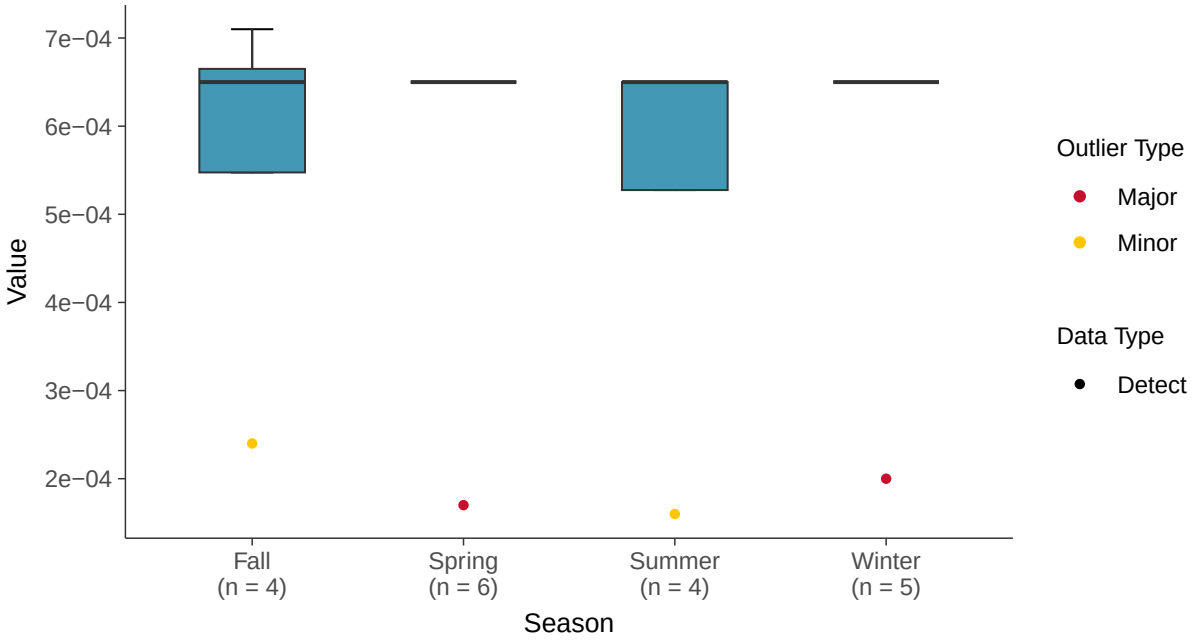
Boxplot

Nickel, MW-07 (mg/L)



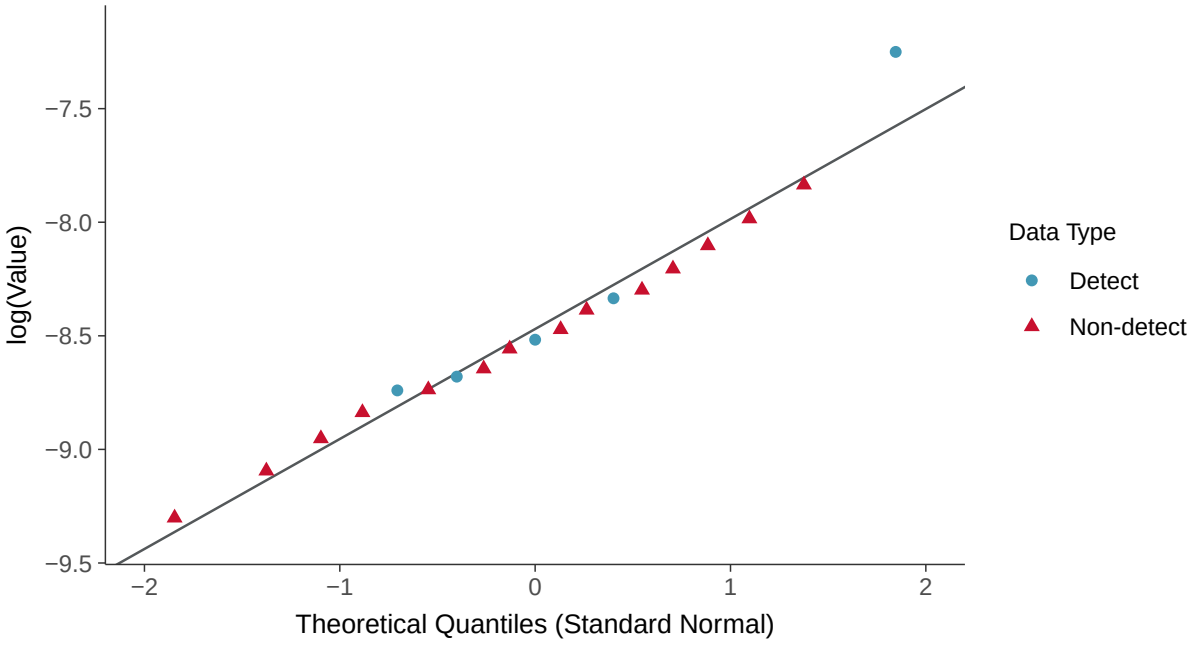
Boxplot by Season

Nickel, MW-07 (mg/L)



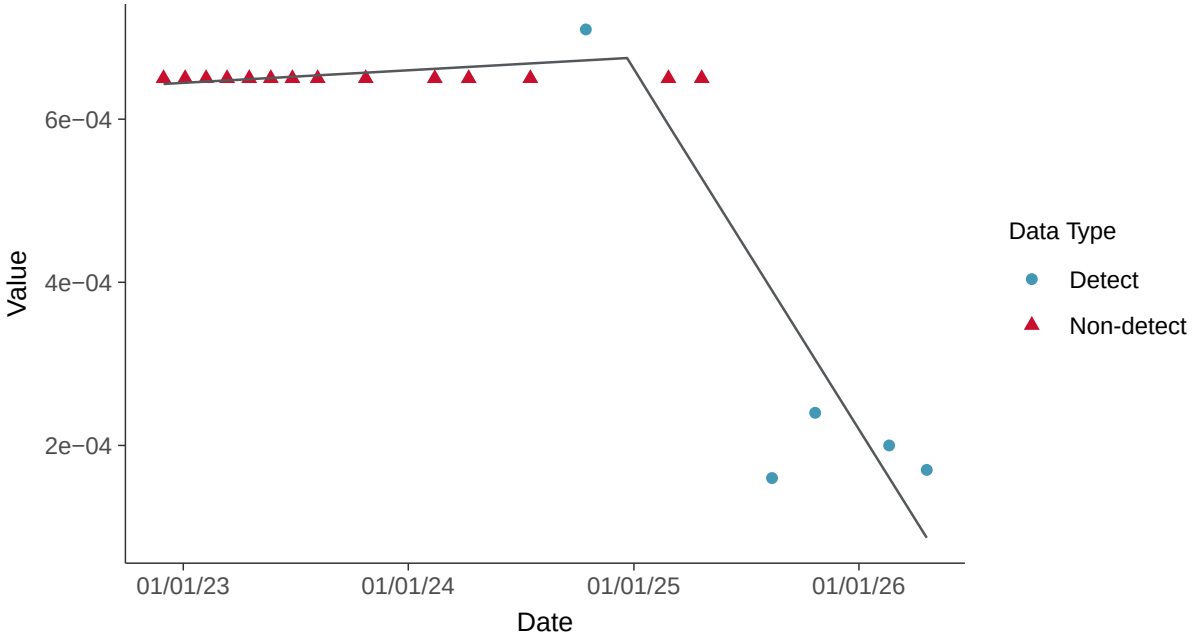
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-07 (mg/L)



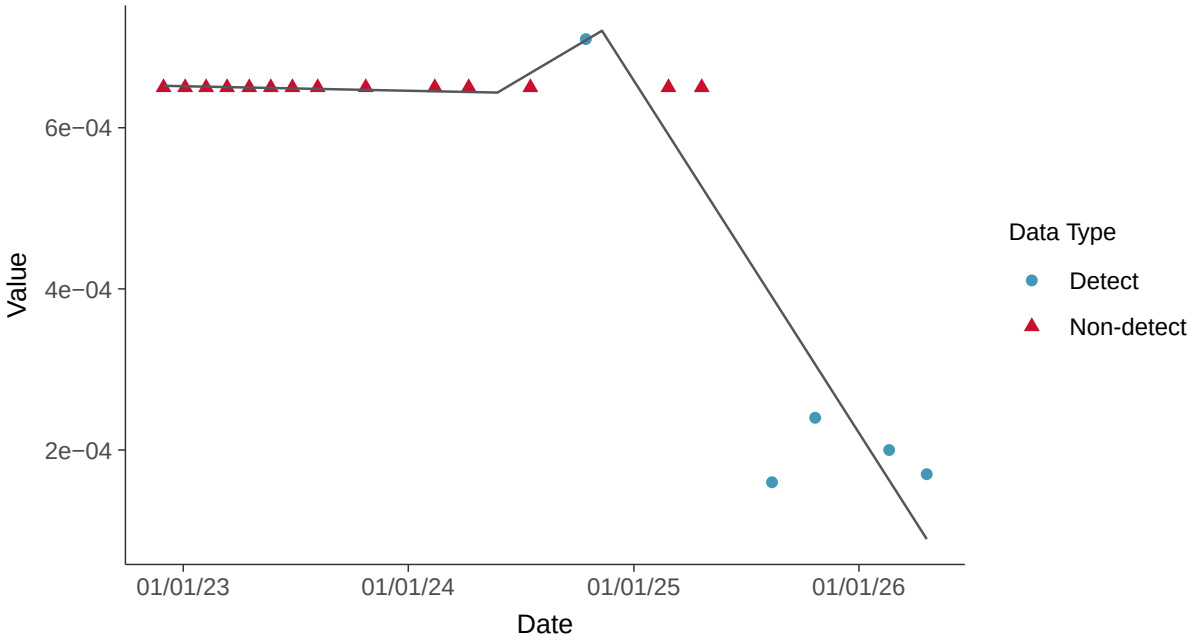
Trend Regression: Piecewise Linear-Linear

Nickel, MW-07 (mg/L)



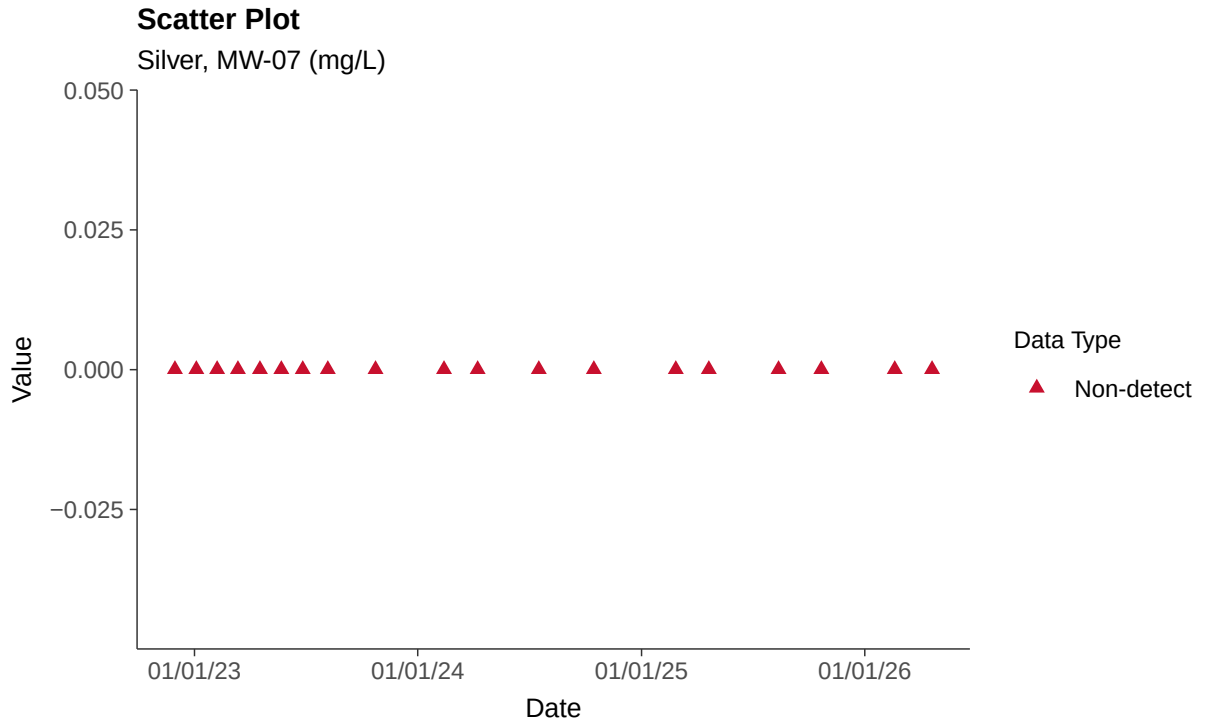
Trend Regression: Piecewise Linear-Linear-Linear

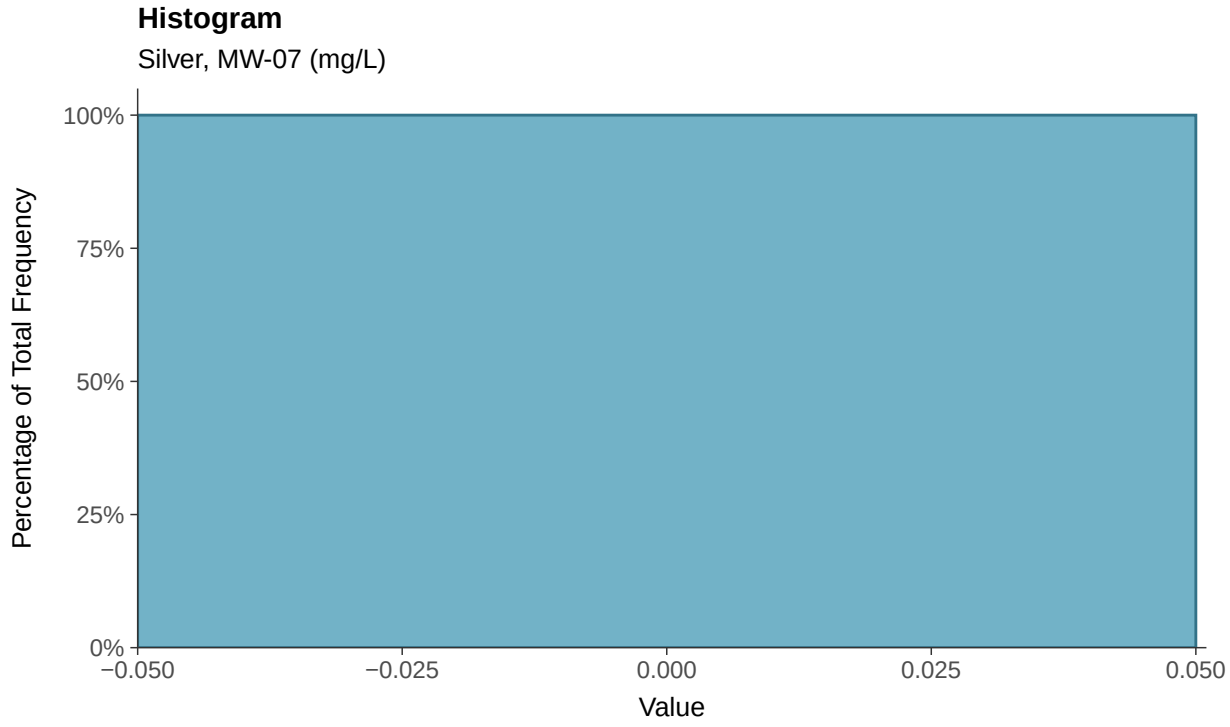
Nickel, MW-07 (mg/L)



Part 115: Silver, MW-07

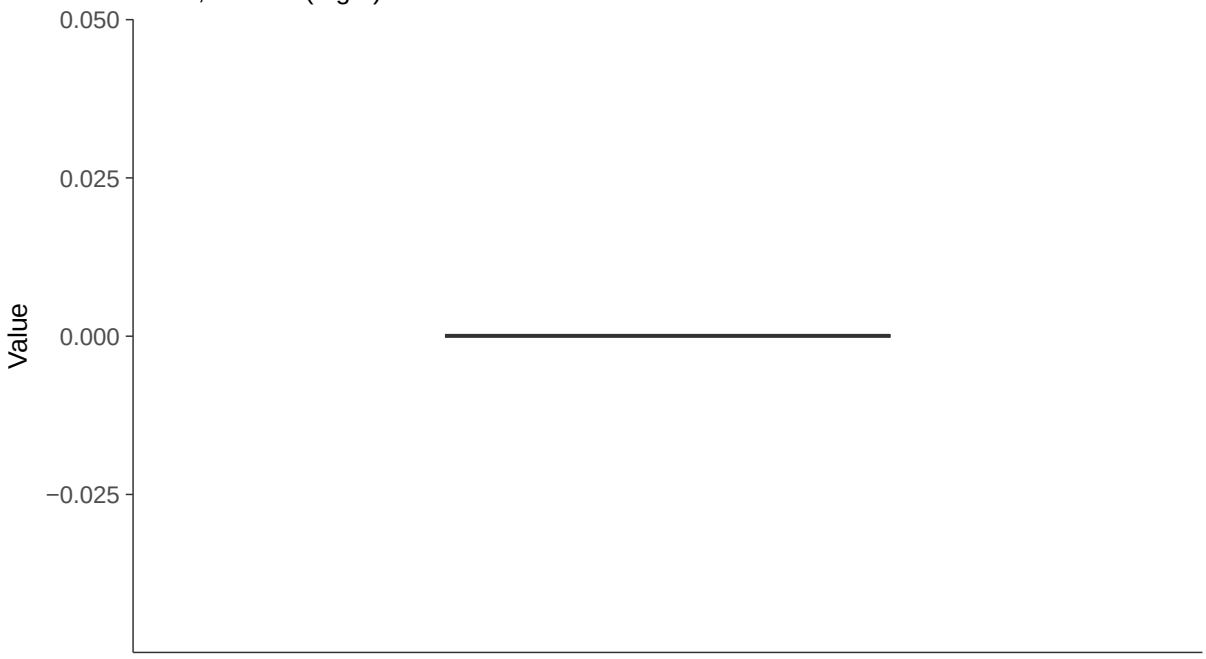
ID: 17_1_5_123





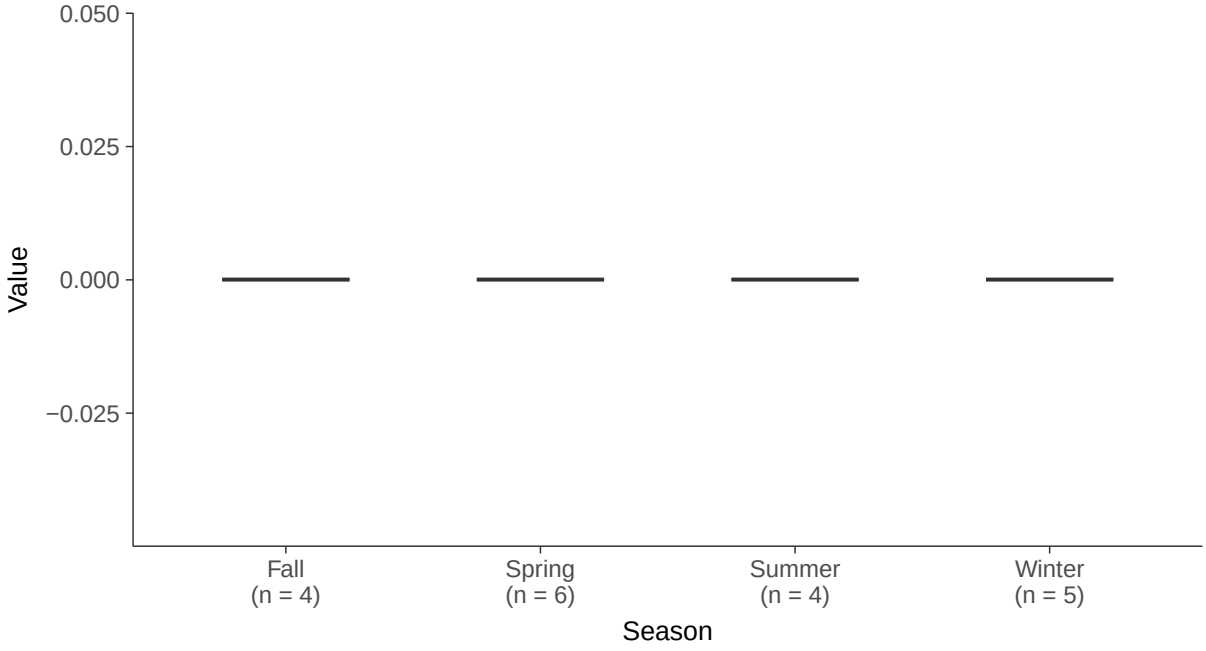
Boxplot

Silver, MW-07 (mg/L)



Boxplot by Season

Silver, MW-07 (mg/L)

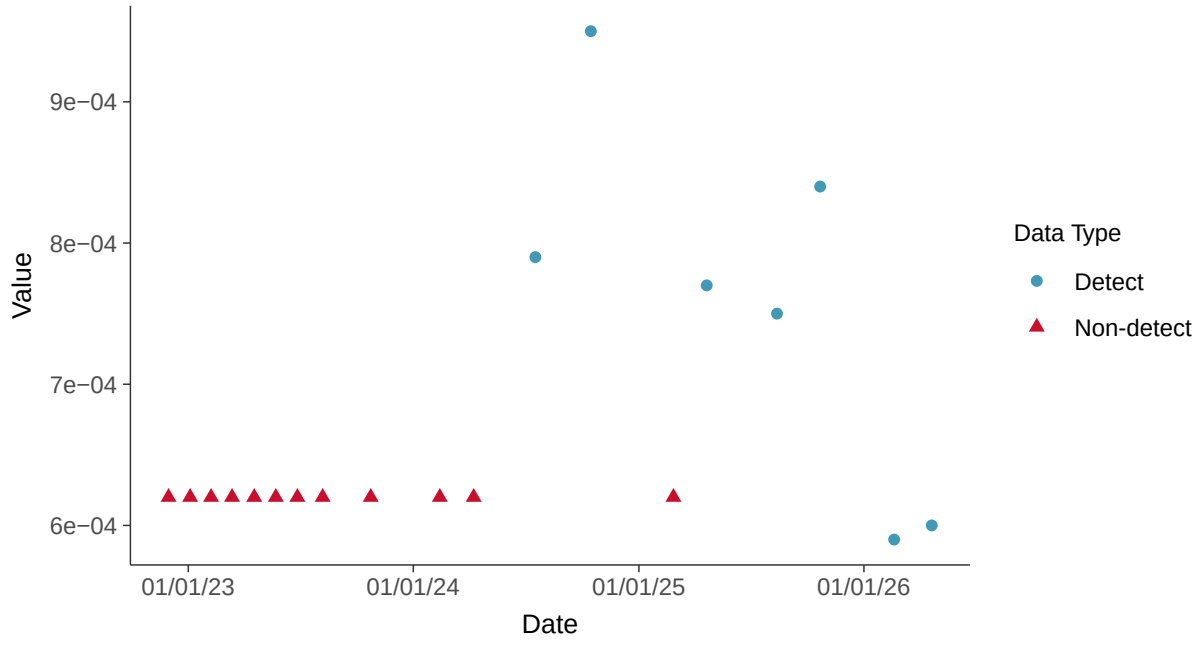


Part 115: Vanadium, MW-07

ID: 17_1_5_128

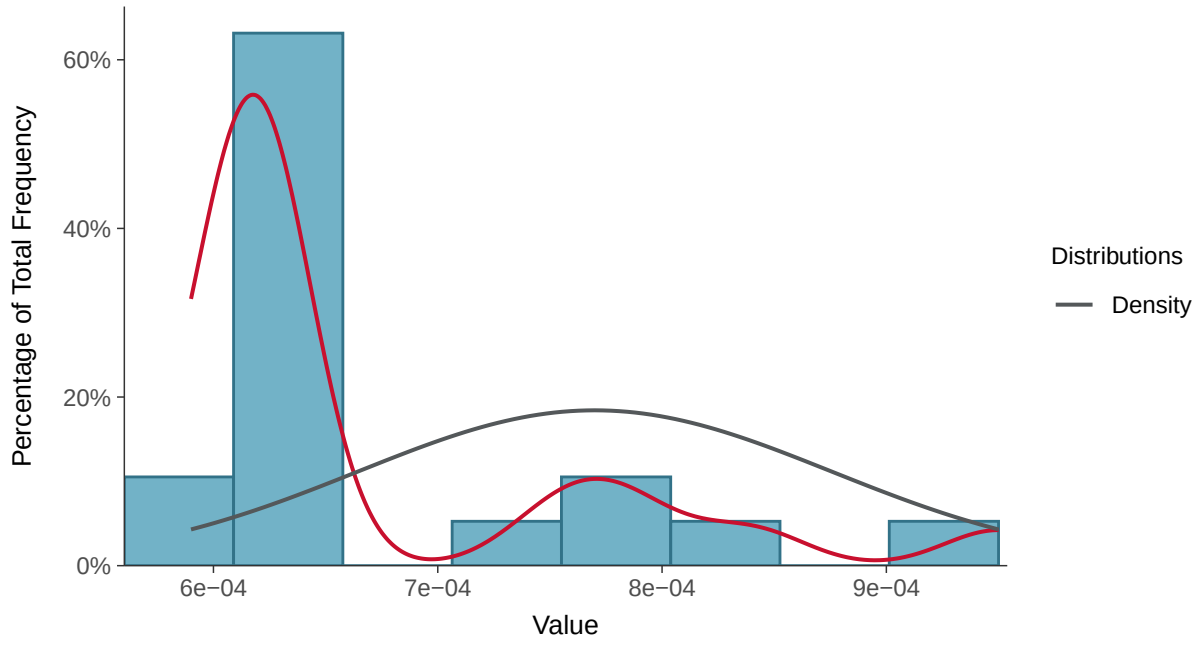
Scatter Plot

Vanadium, MW-07 (mg/L)



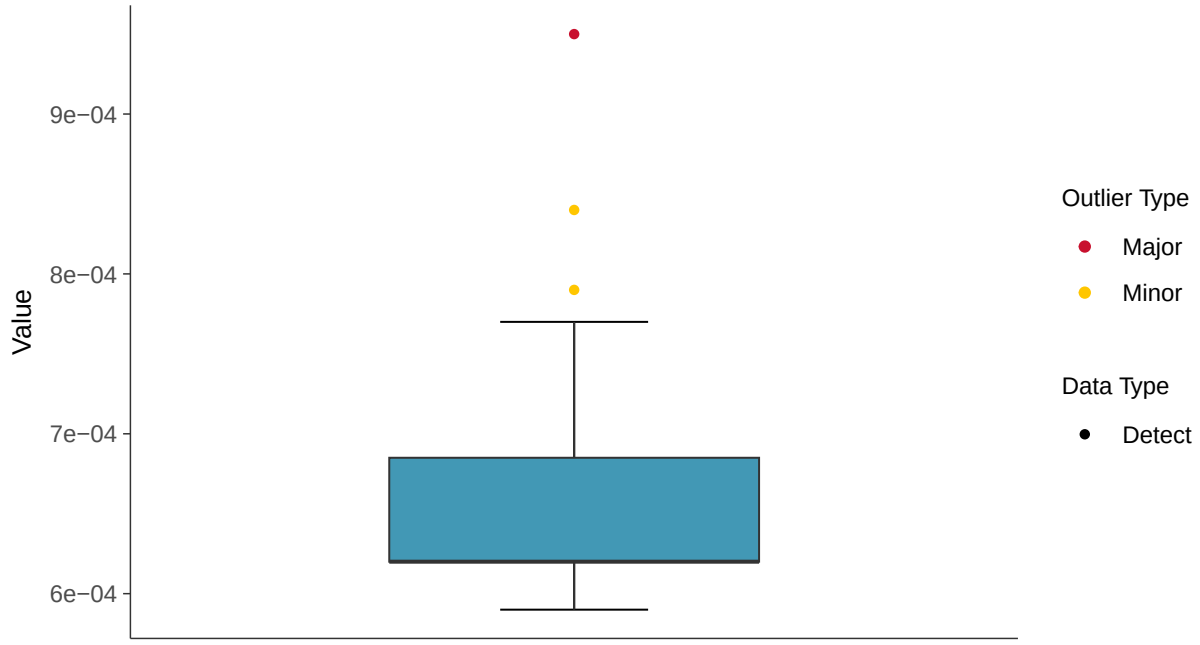
Histogram

Vanadium, MW-07 (mg/L)



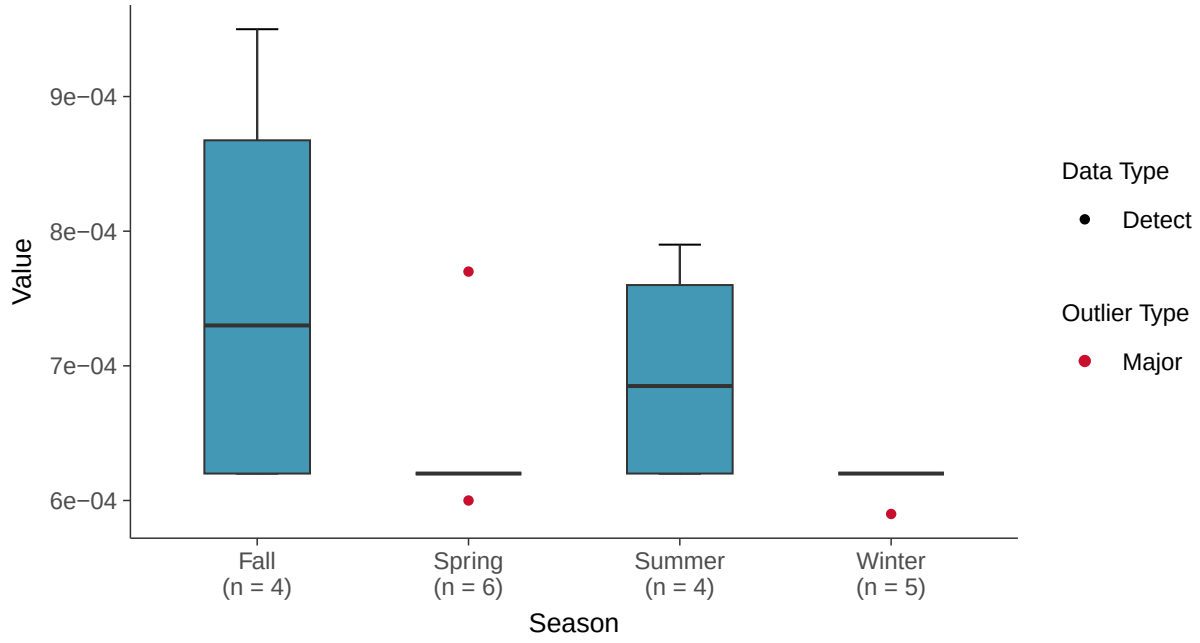
Boxplot

Vanadium, MW-07 (mg/L)



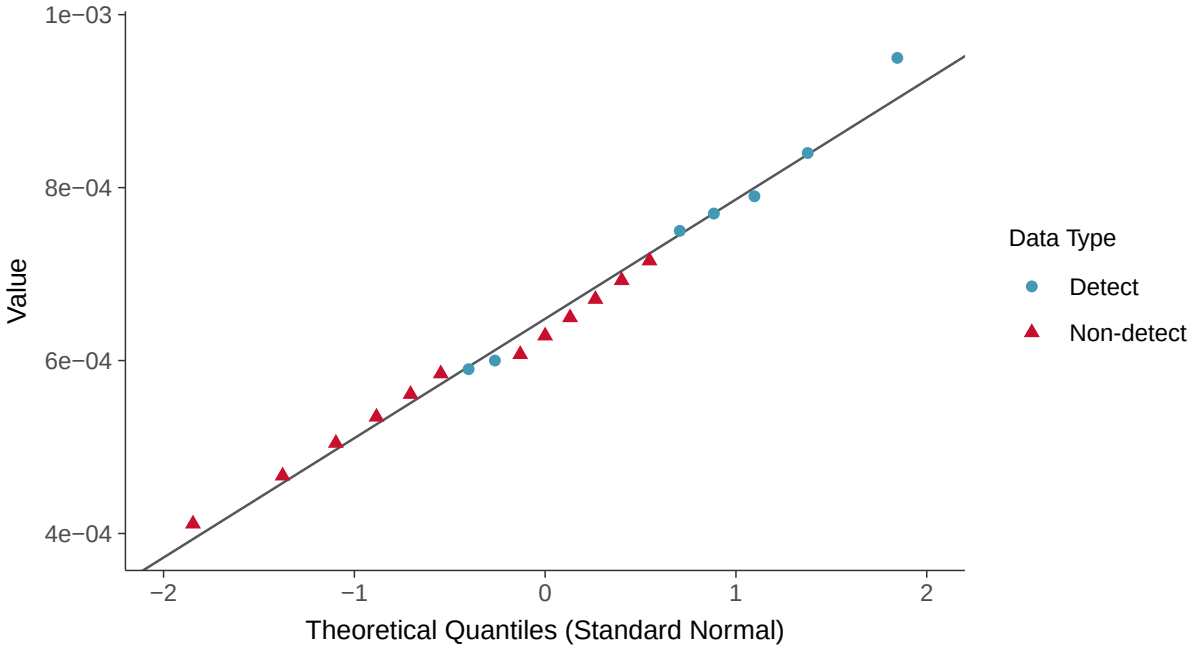
Boxplot by Season

Vanadium, MW-07 (mg/L)



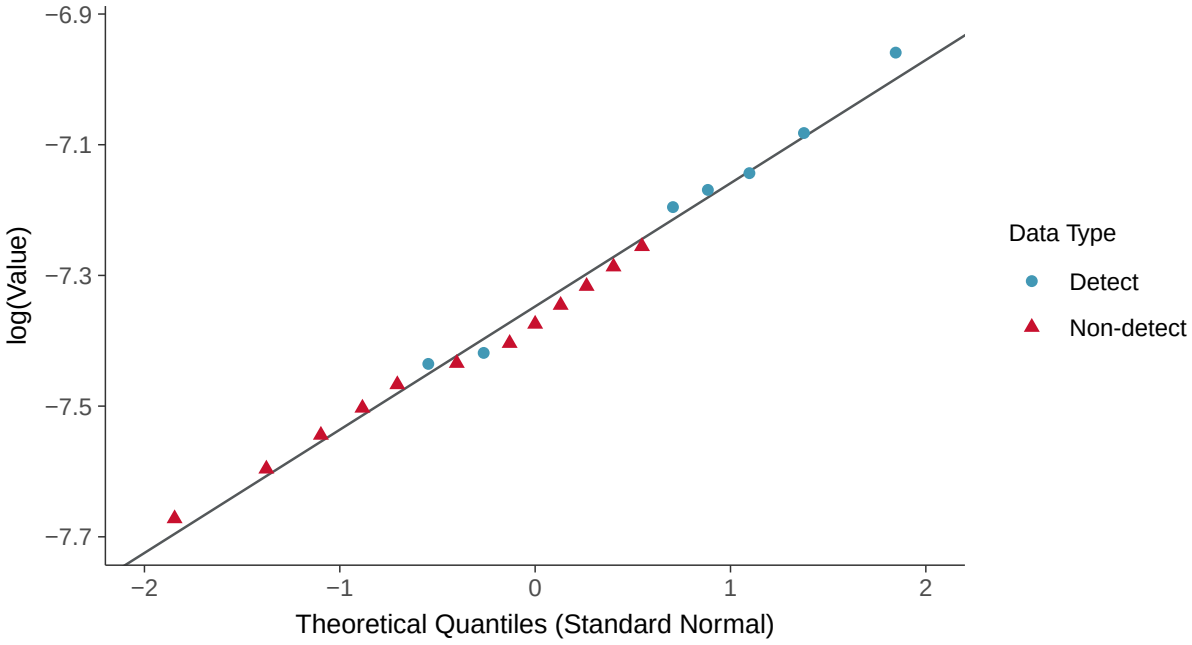
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-07 (mg/L)



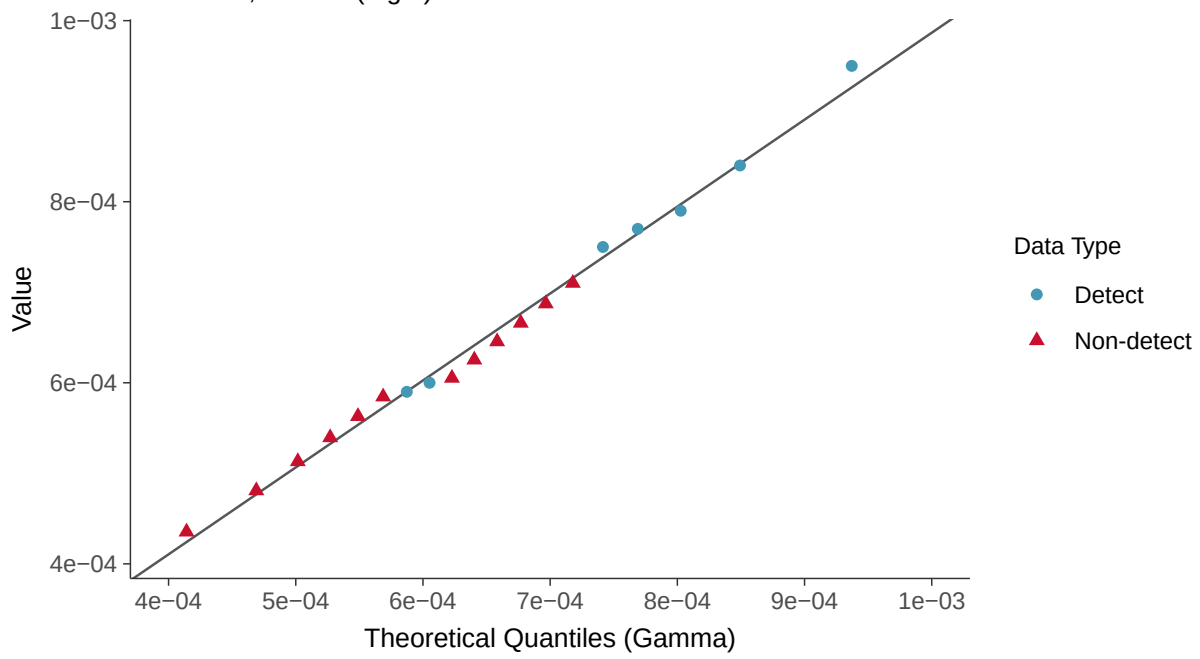
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-07 (mg/L)



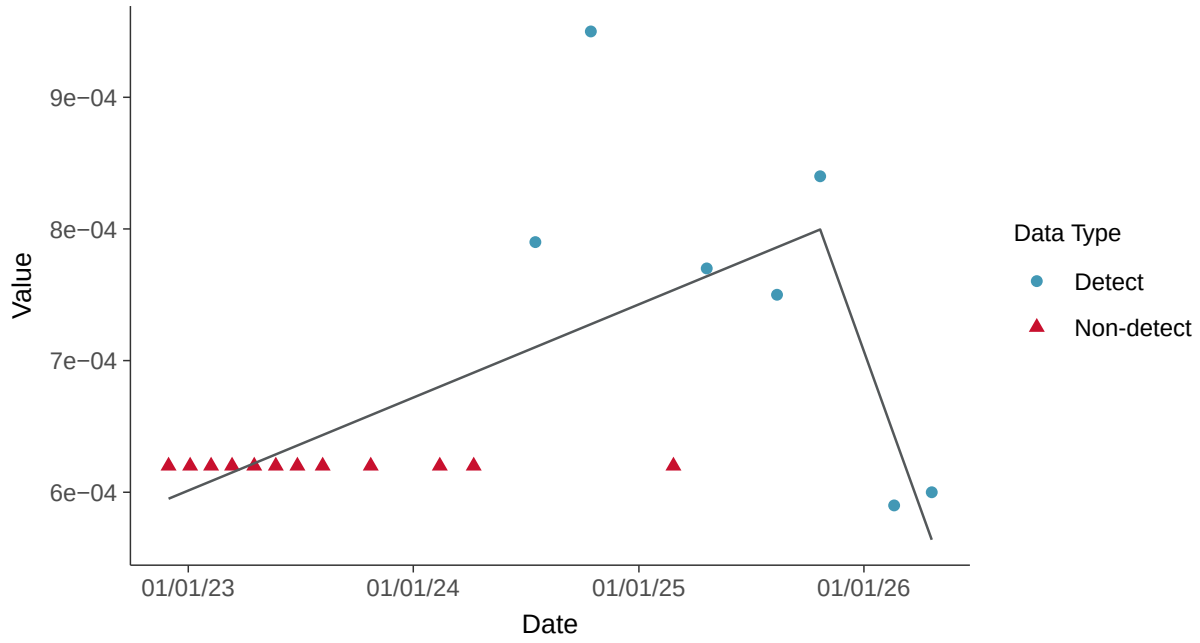
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-07 (mg/L)



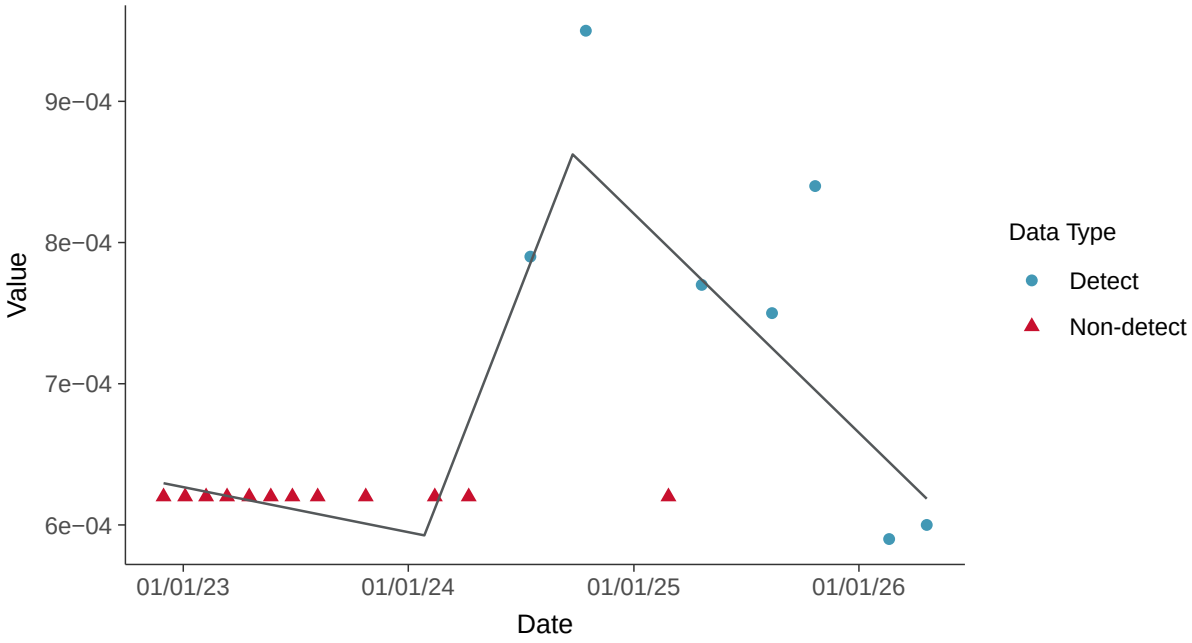
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-07 (mg/L)



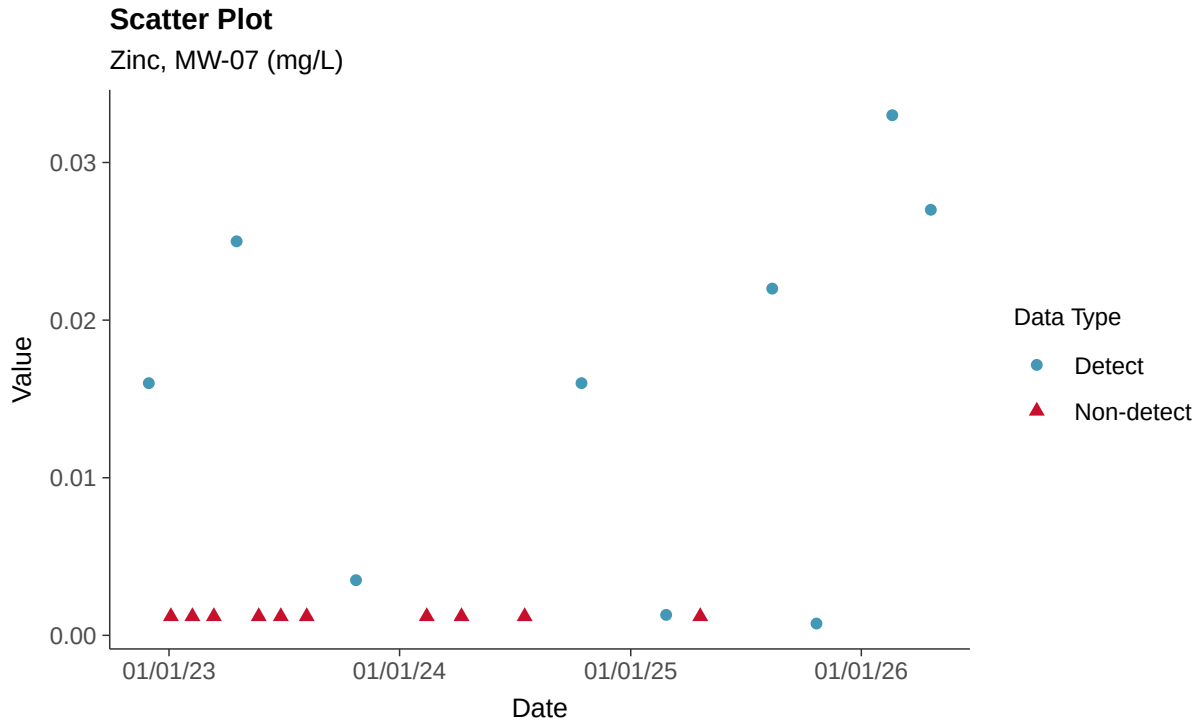
Trend Regression: Piecewise Linear-Linear-Linear

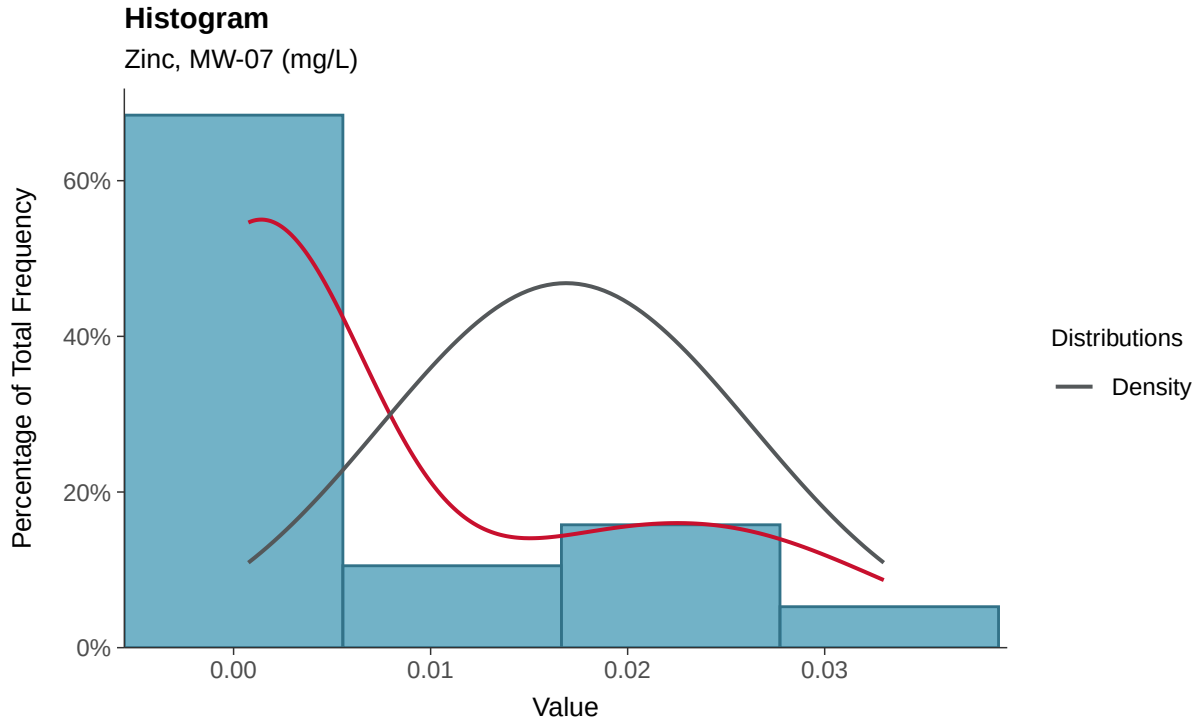
Vanadium, MW-07 (mg/L)



Part 115: Zinc, MW-07

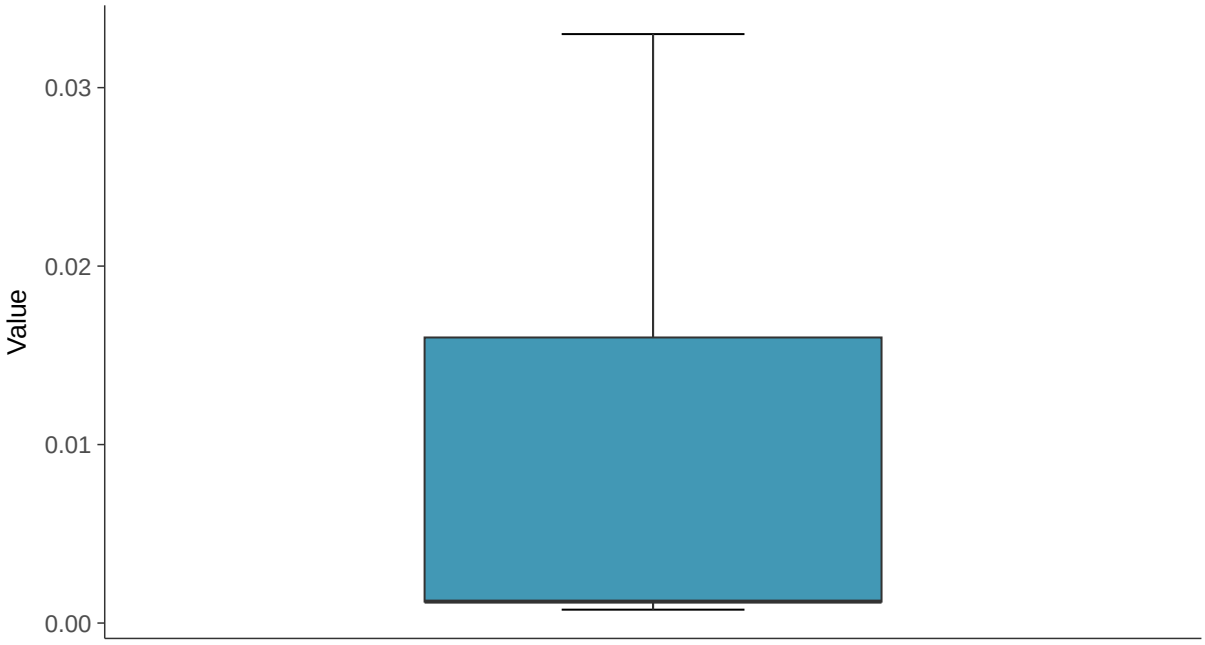
ID: 17_1_5_129





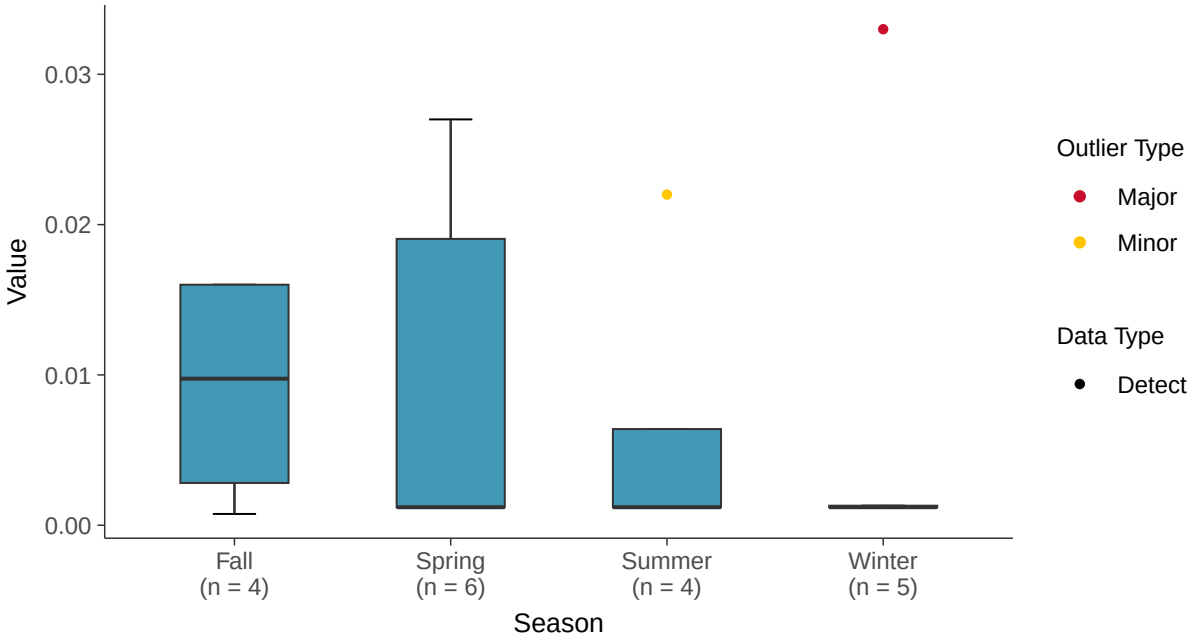
Boxplot

Zinc, MW-07 (mg/L)



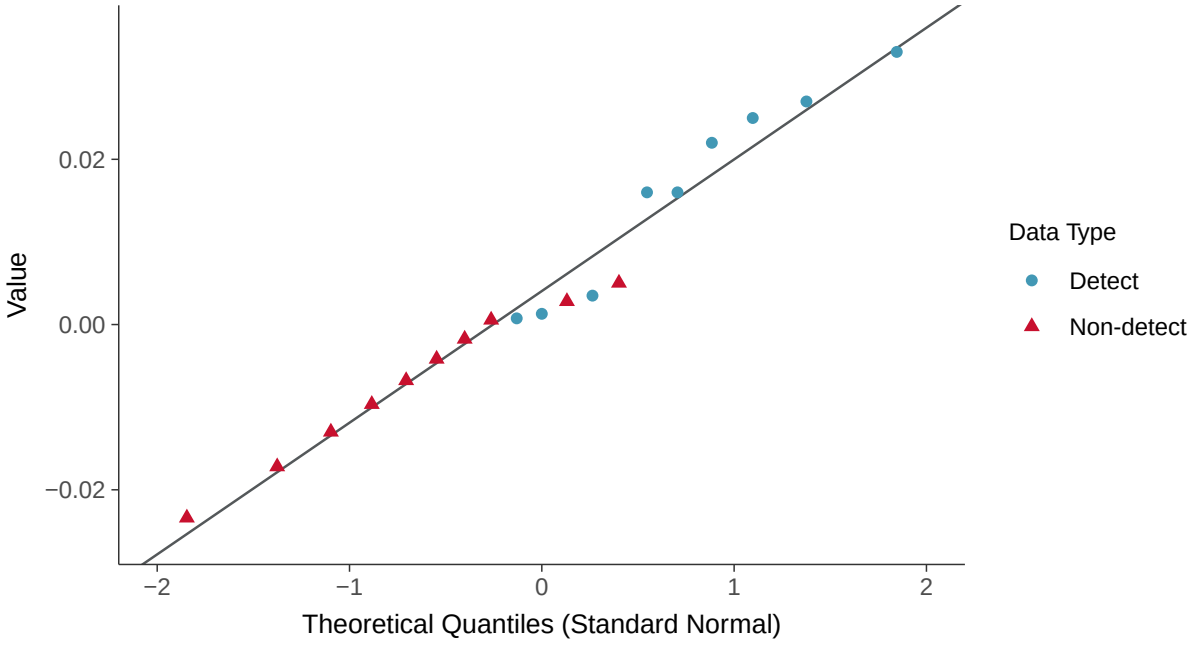
Boxplot by Season

Zinc, MW-07 (mg/L)



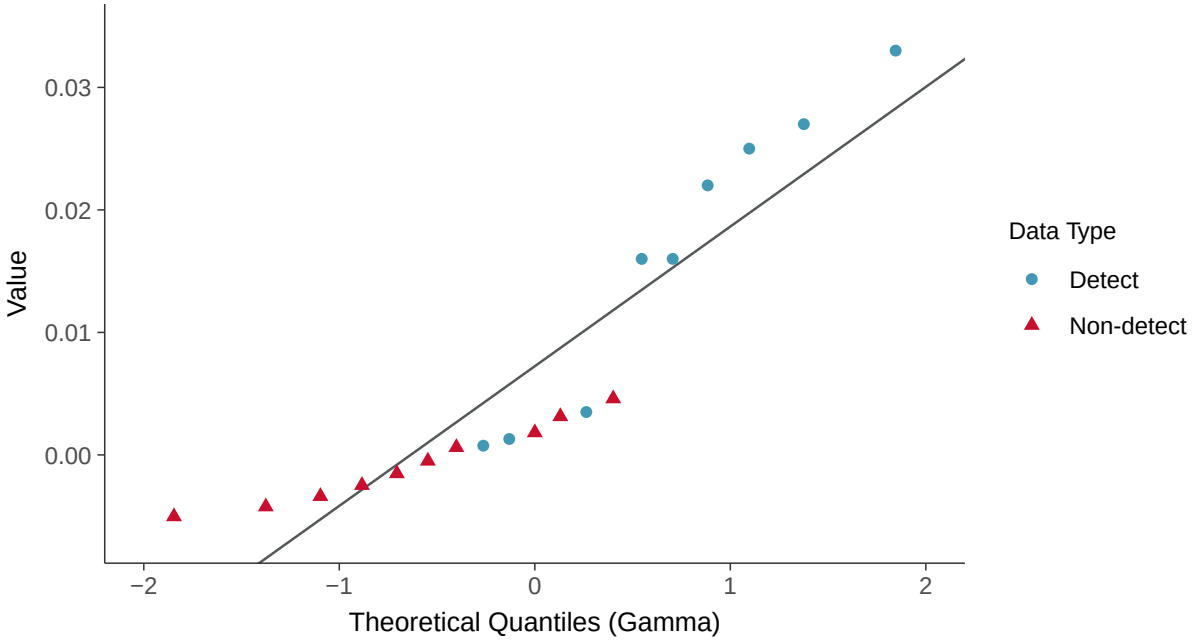
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-07 (mg/L)



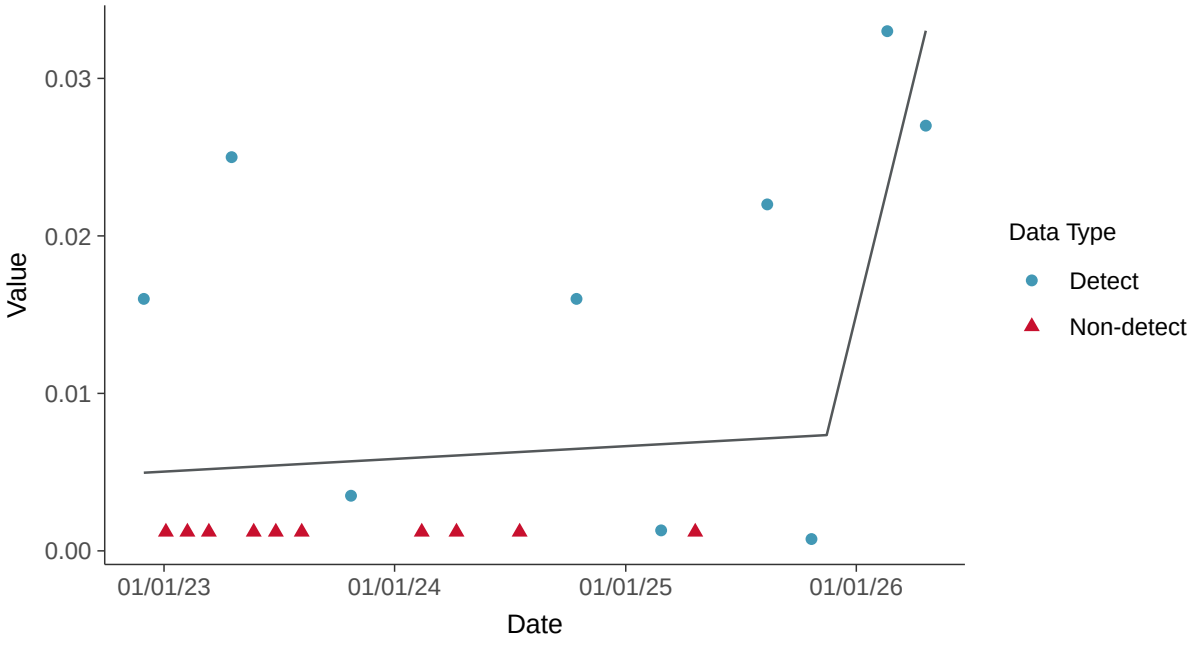
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-07 (mg/L)



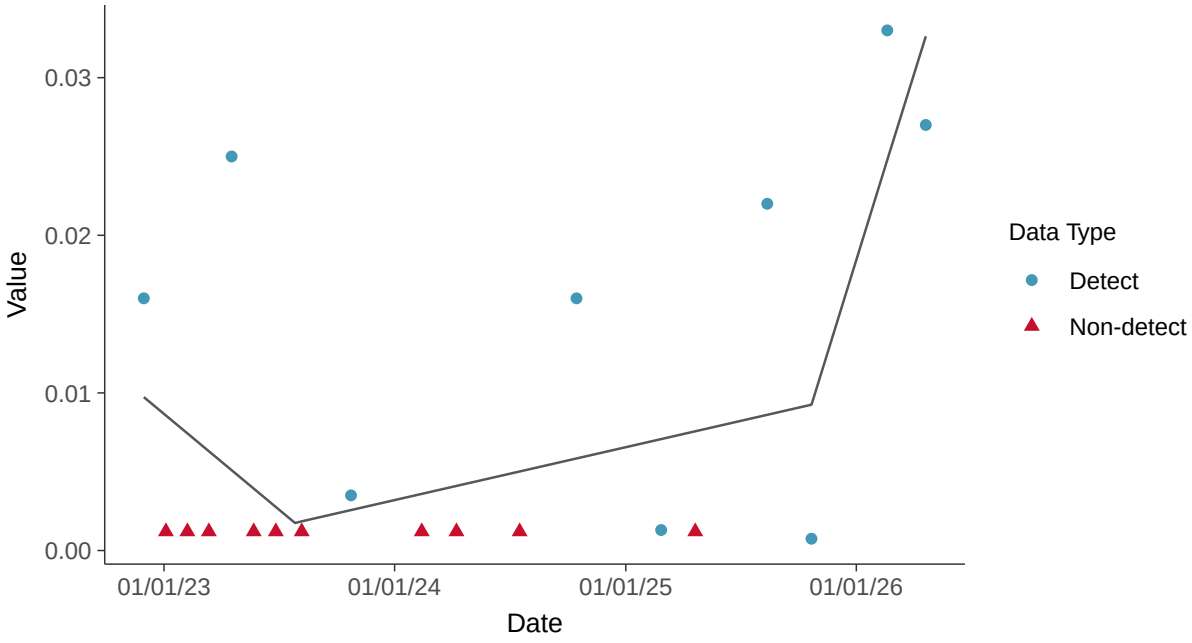
Trend Regression: Piecewise Linear-Linear

Zinc, MW-07 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-07 (mg/L)

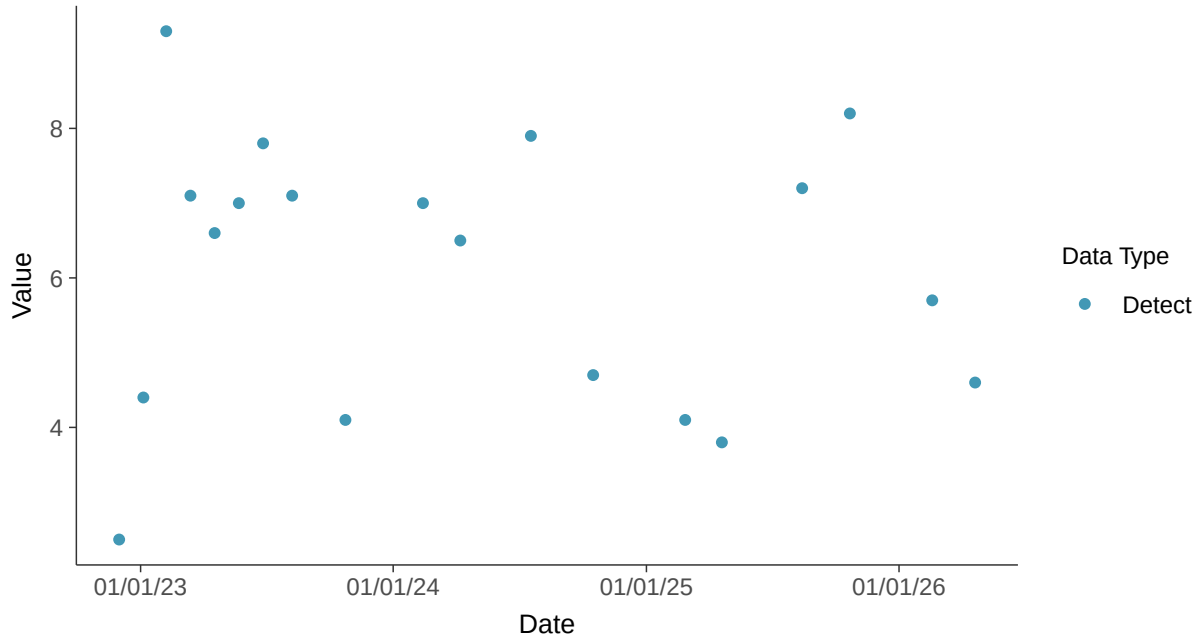


Appendix III: Boron, MW-08

ID: 18_1_3_105

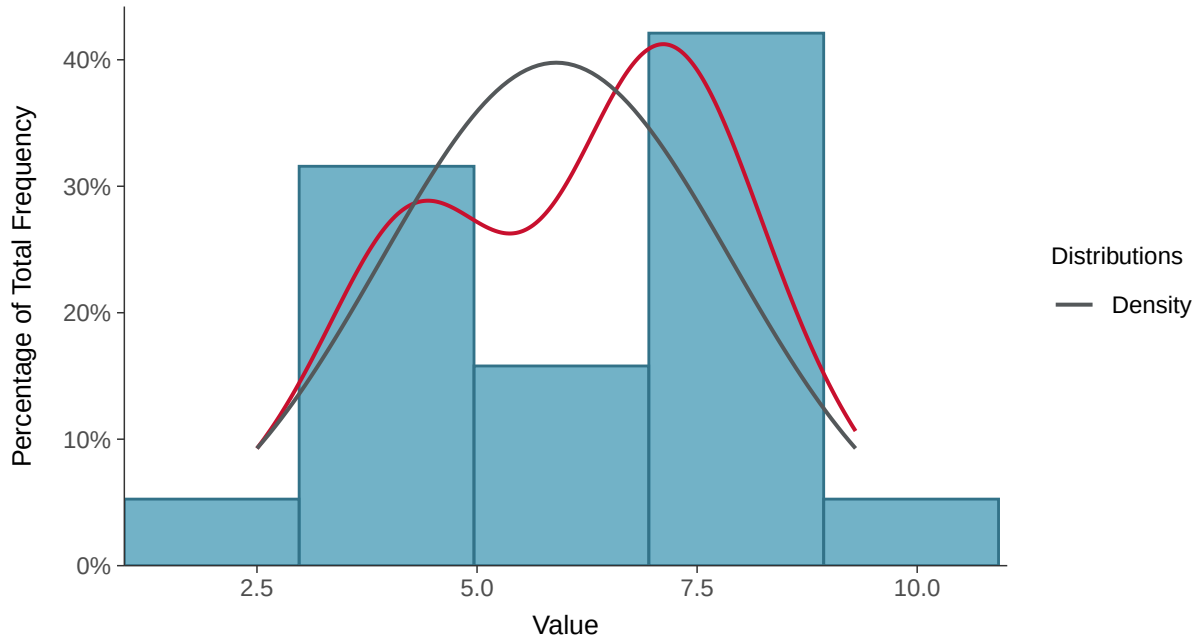
Scatter Plot

Boron, MW-08 (mg/L)



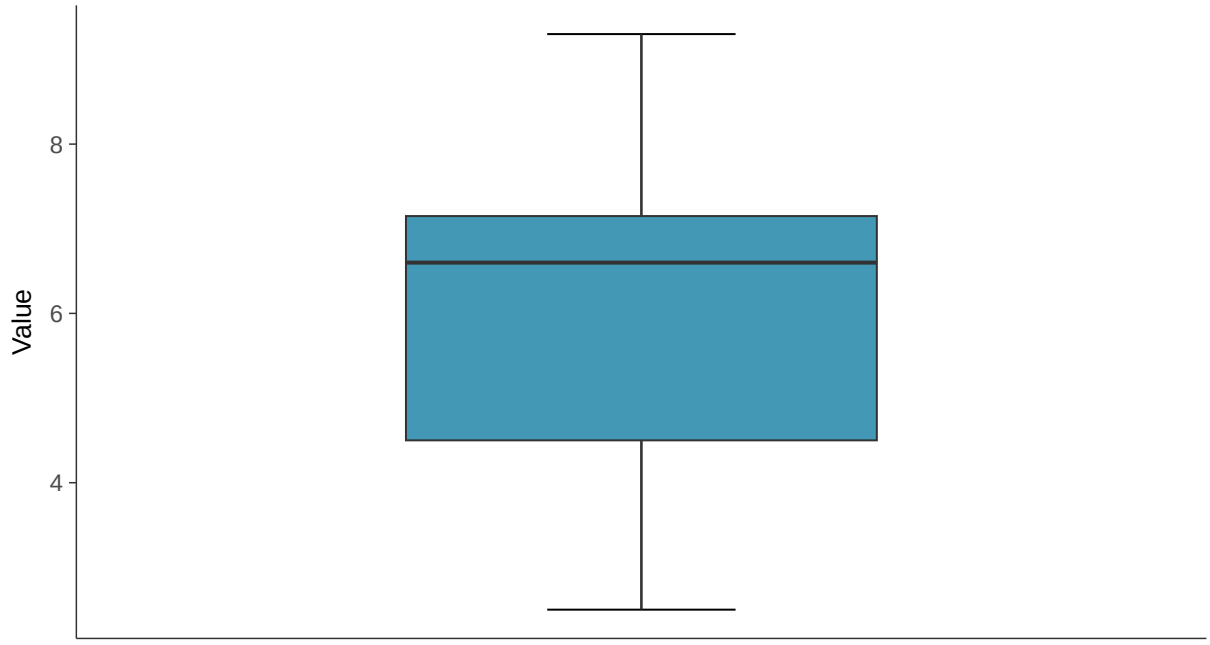
Histogram

Boron, MW-08 (mg/L)



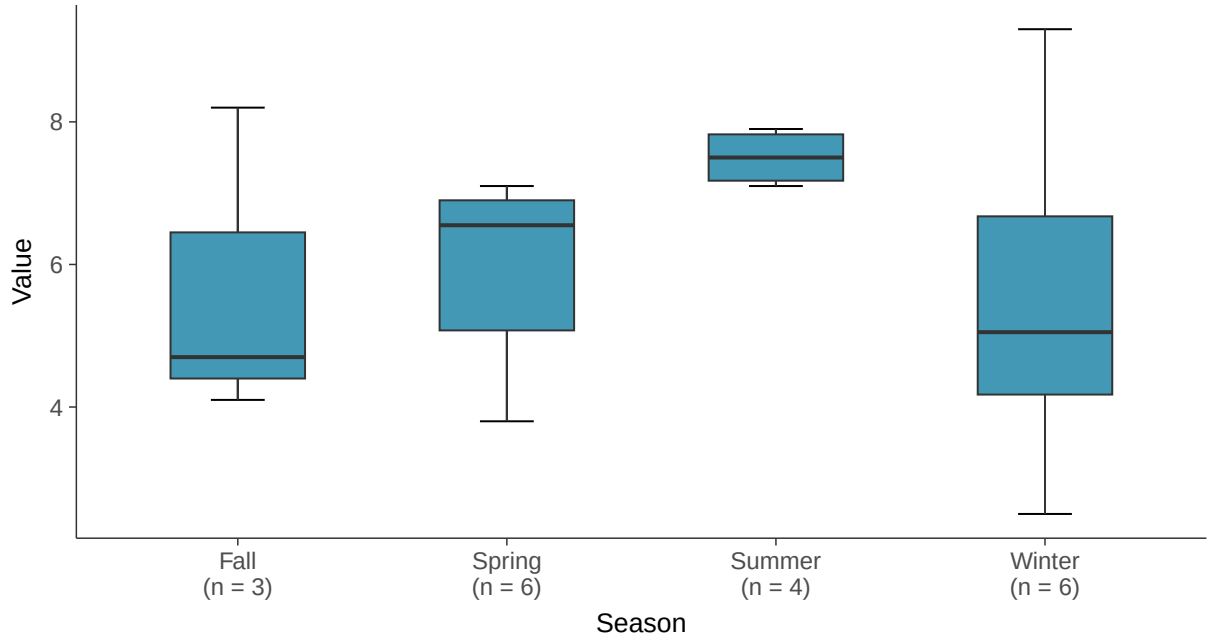
Boxplot

Boron, MW-08 (mg/L)



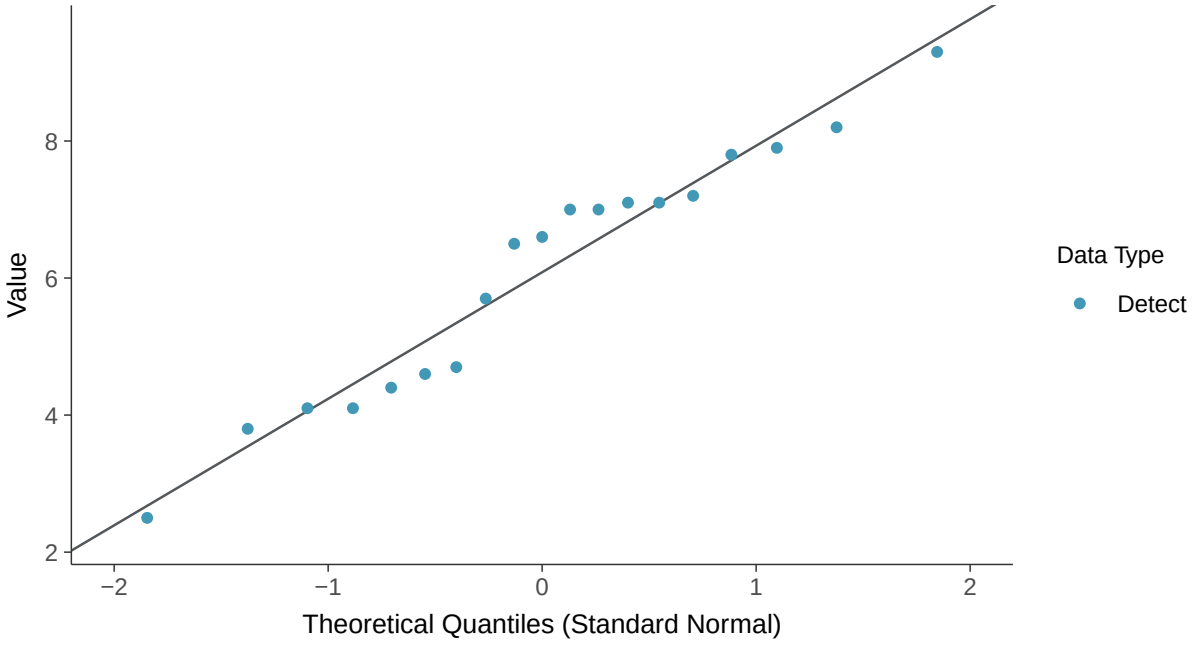
Boxplot by Season

Boron, MW-08 (mg/L)



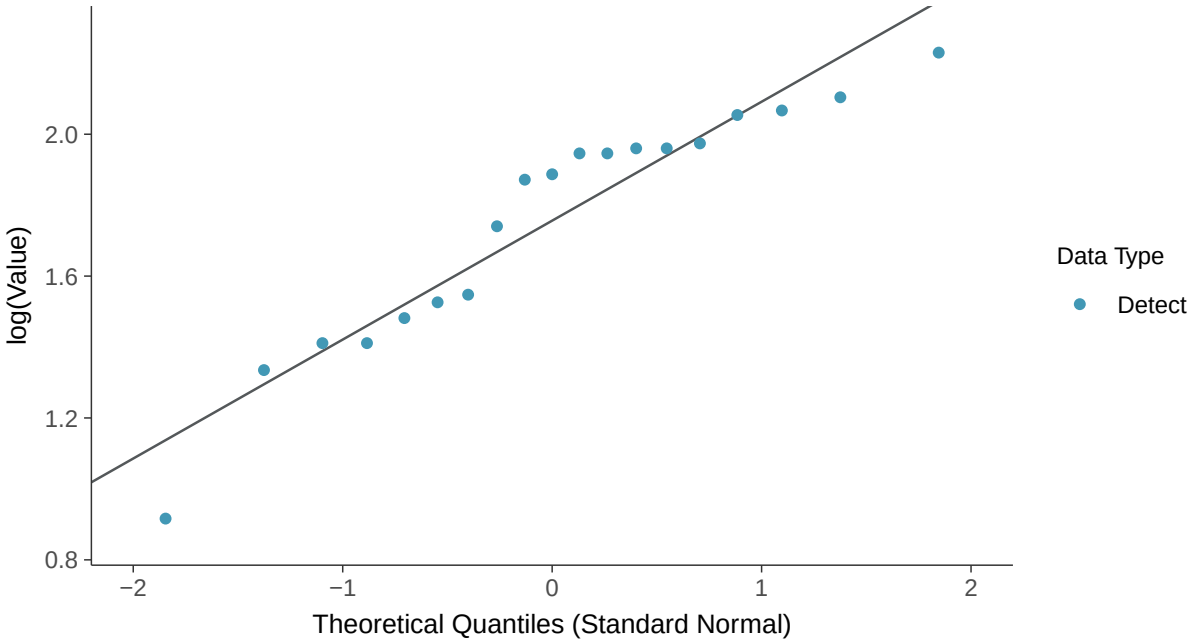
Normal Q-Q plot

Boron, MW-08 (mg/L)



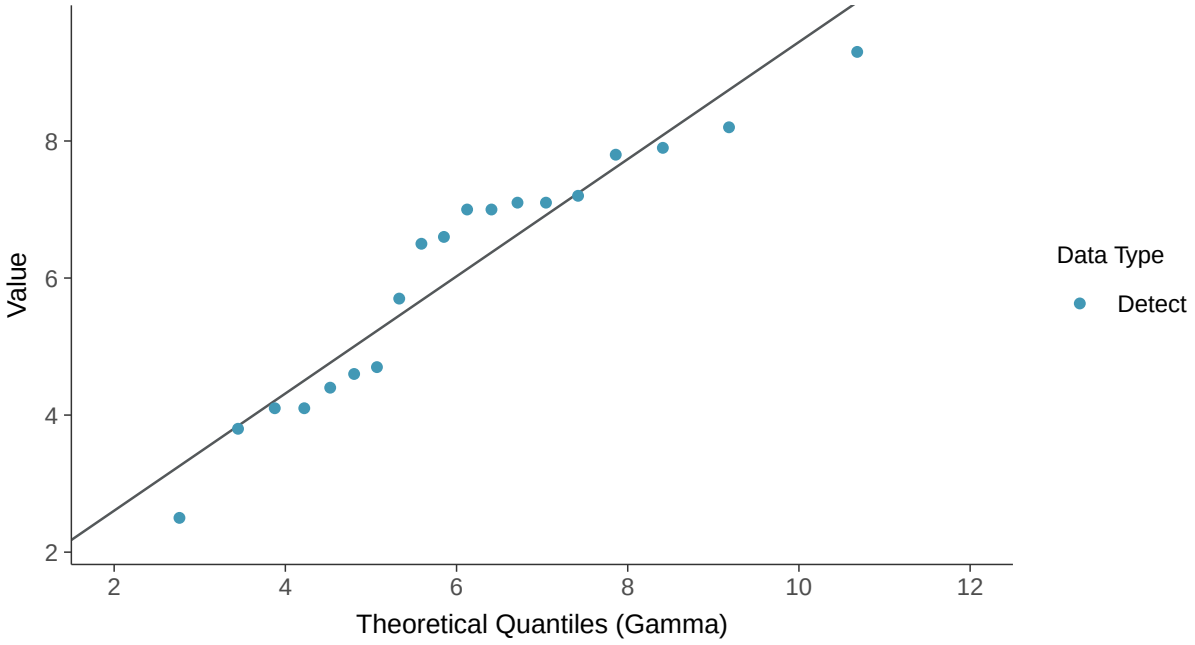
Lognormal Q-Q plot

Boron, MW-08 (mg/L)



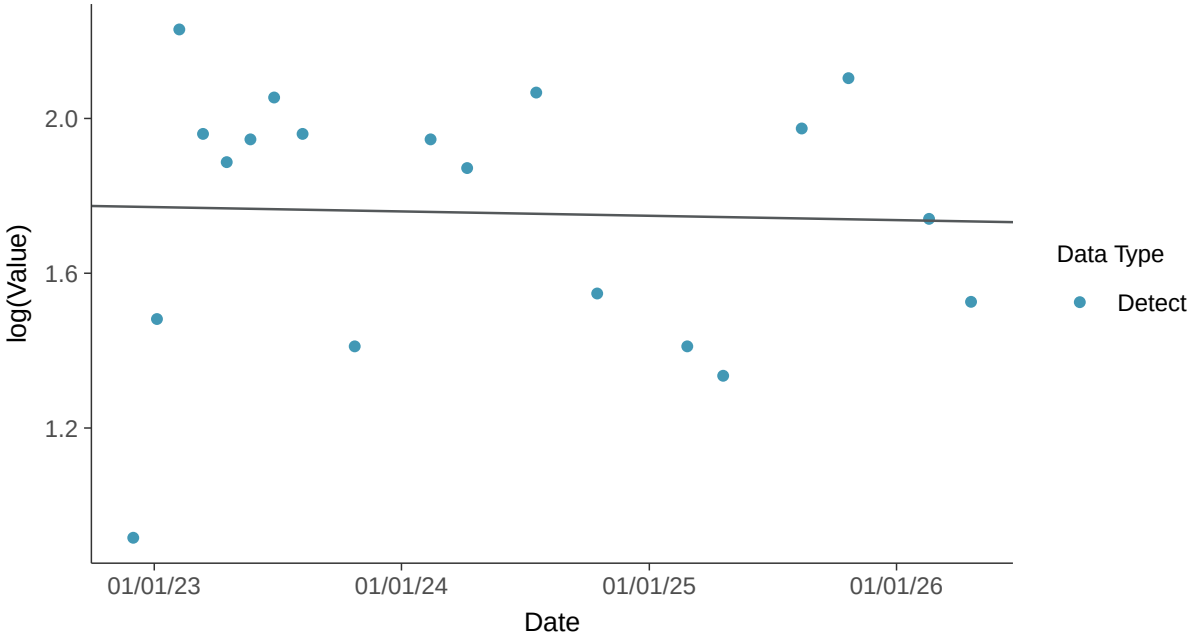
Gamma Q-Q plot

Boron, MW-08 (mg/L)



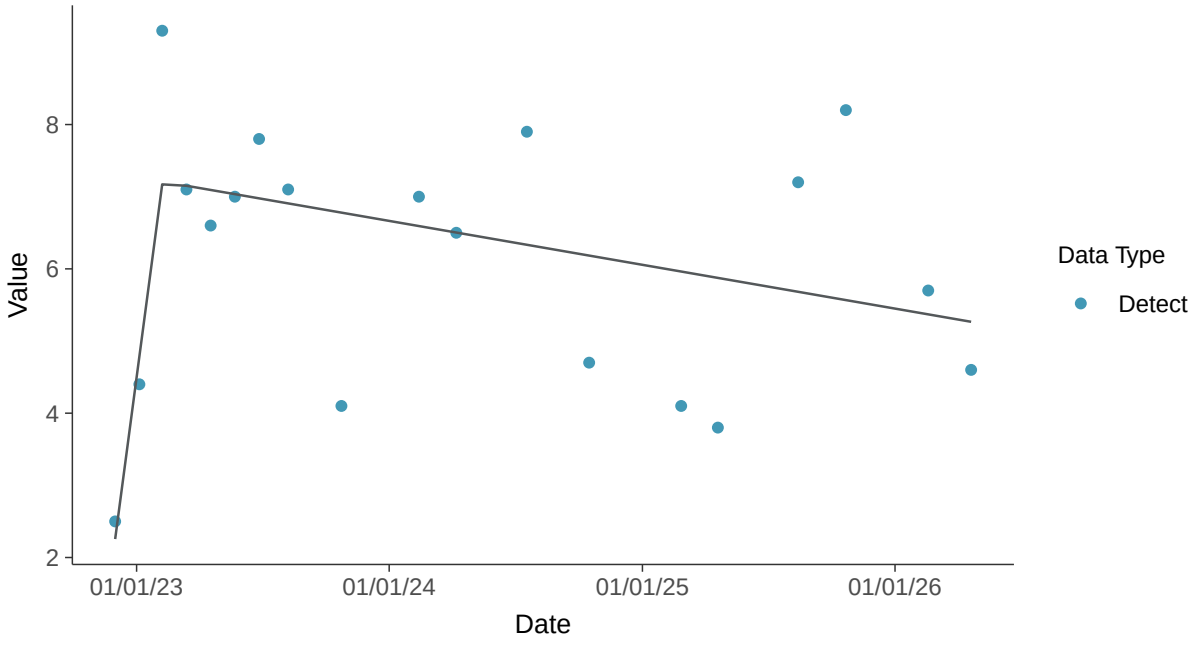
Trend Regression: Lognormal MLE

Boron, MW-08 (mg/L)



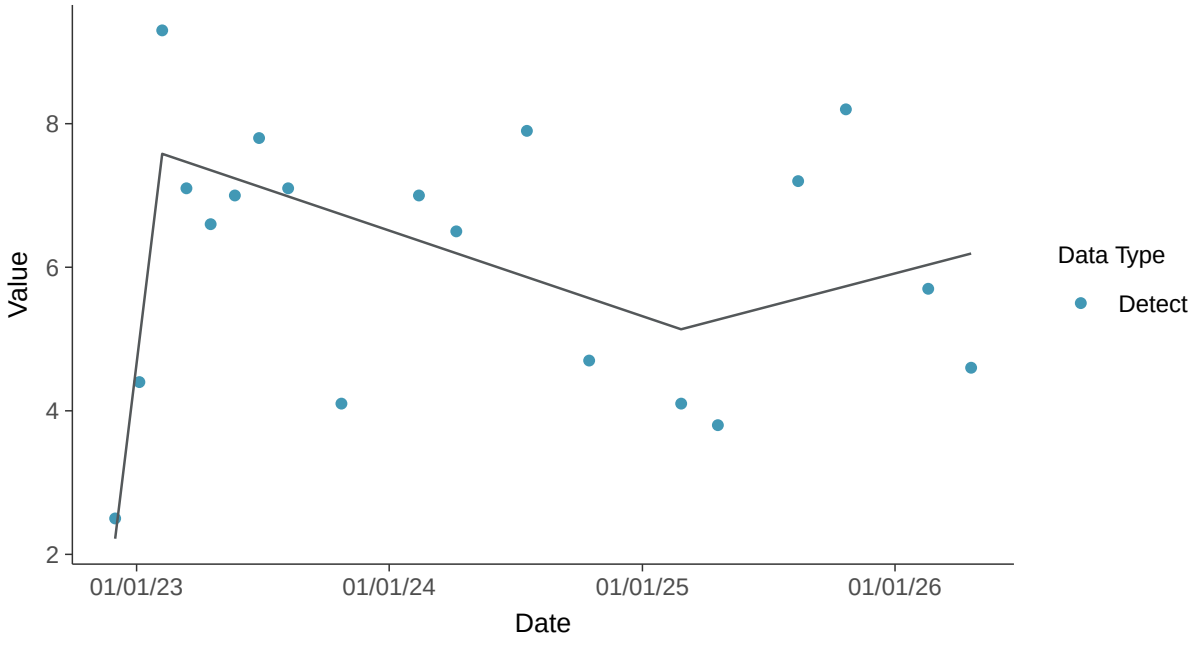
Trend Regression: Piecewise Linear-Linear

Boron, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-08 (mg/L)

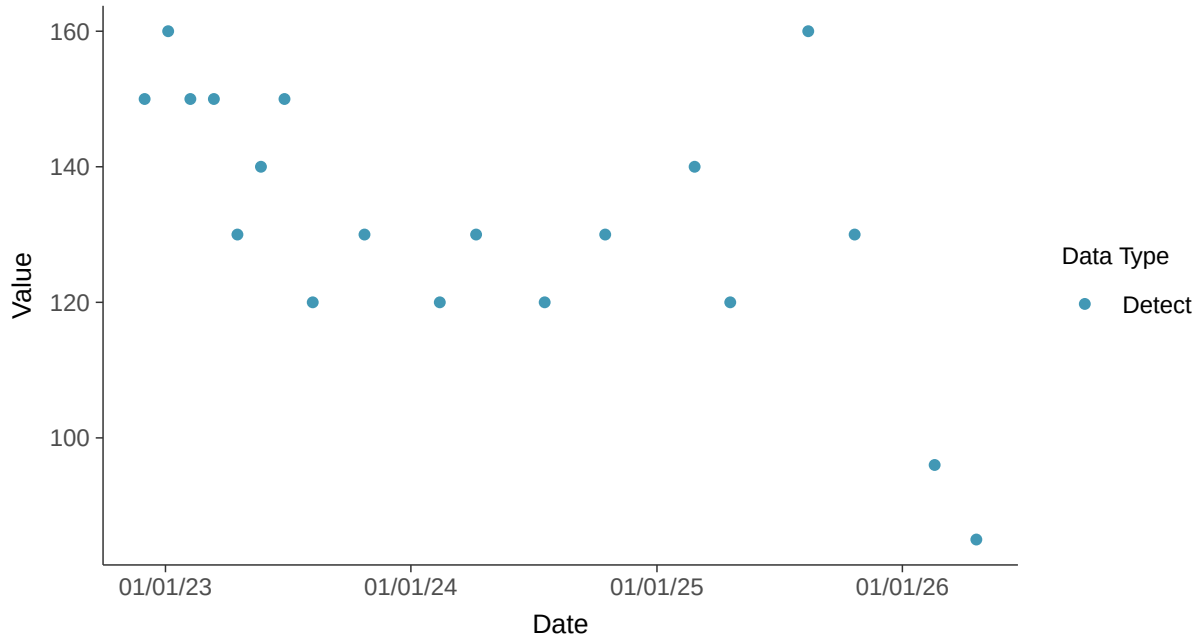


Appendix III: Calcium, MW-08

ID: 18_1_3_107

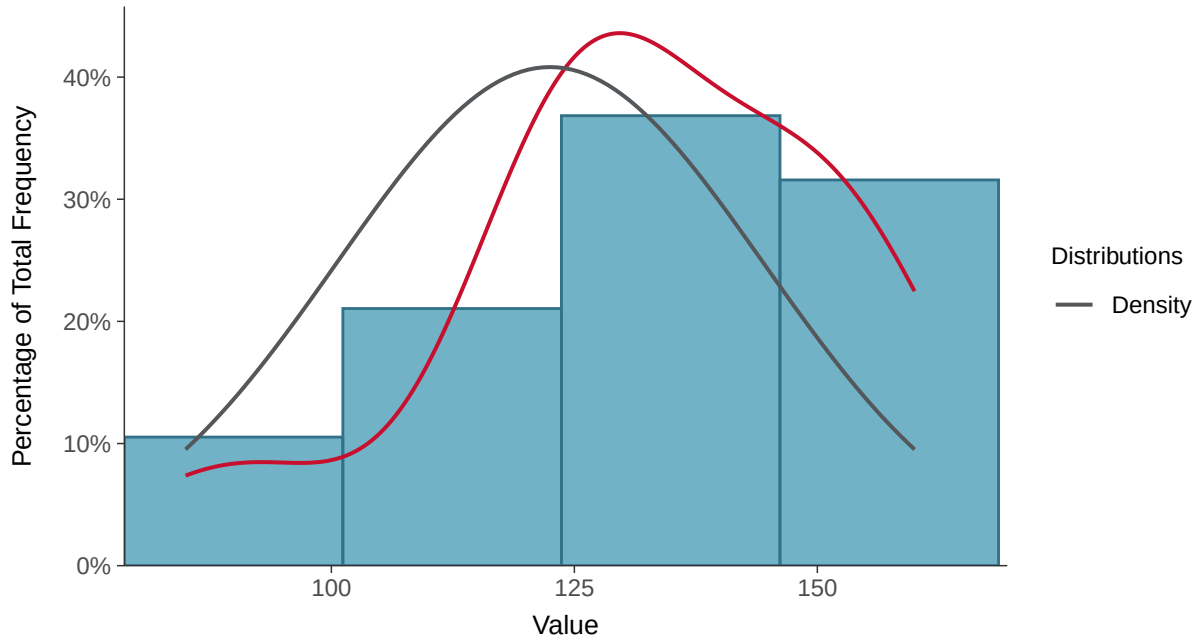
Scatter Plot

Calcium, MW-08 (mg/L)



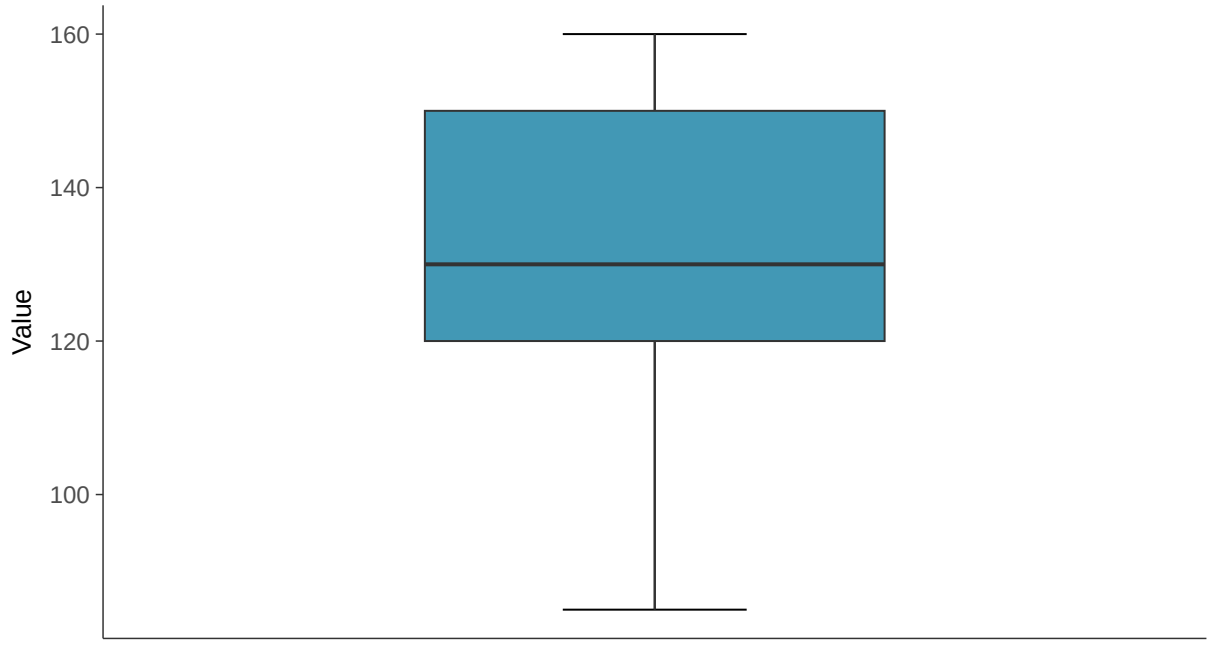
Histogram

Calcium, MW-08 (mg/L)



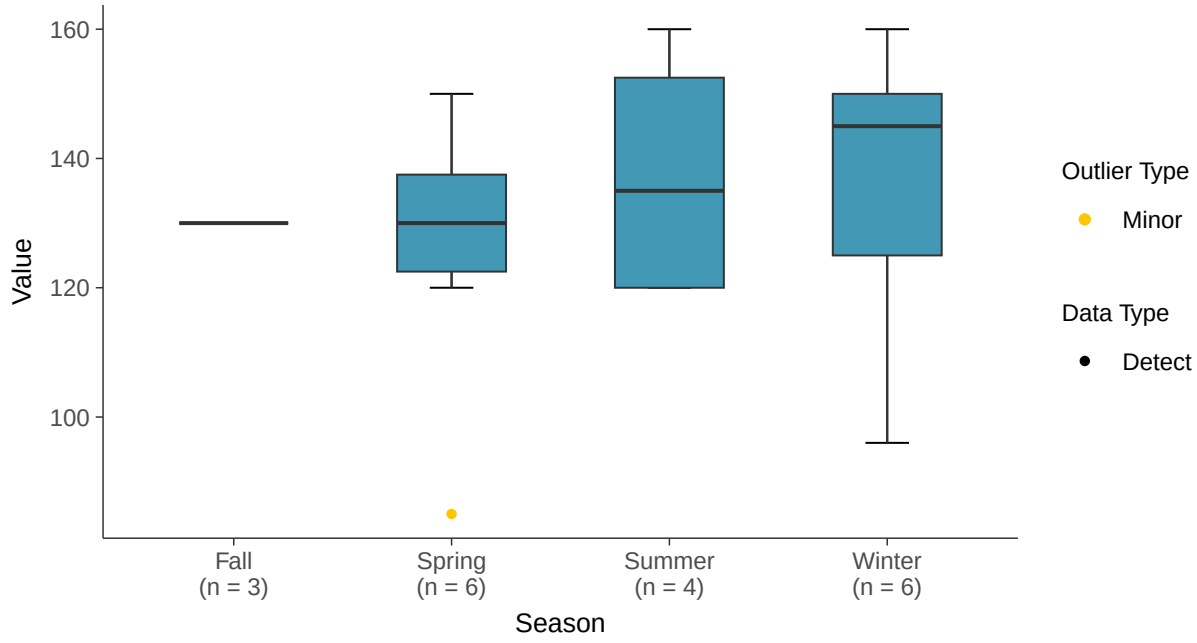
Boxplot

Calcium, MW-08 (mg/L)



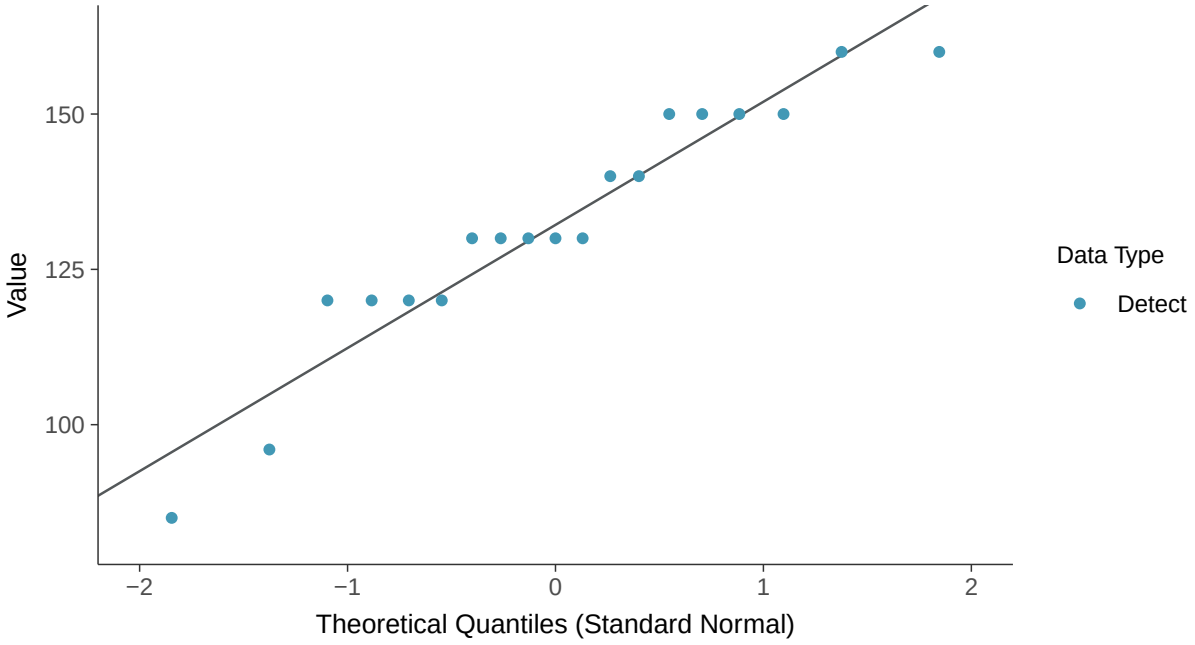
Boxplot by Season

Calcium, MW-08 (mg/L)



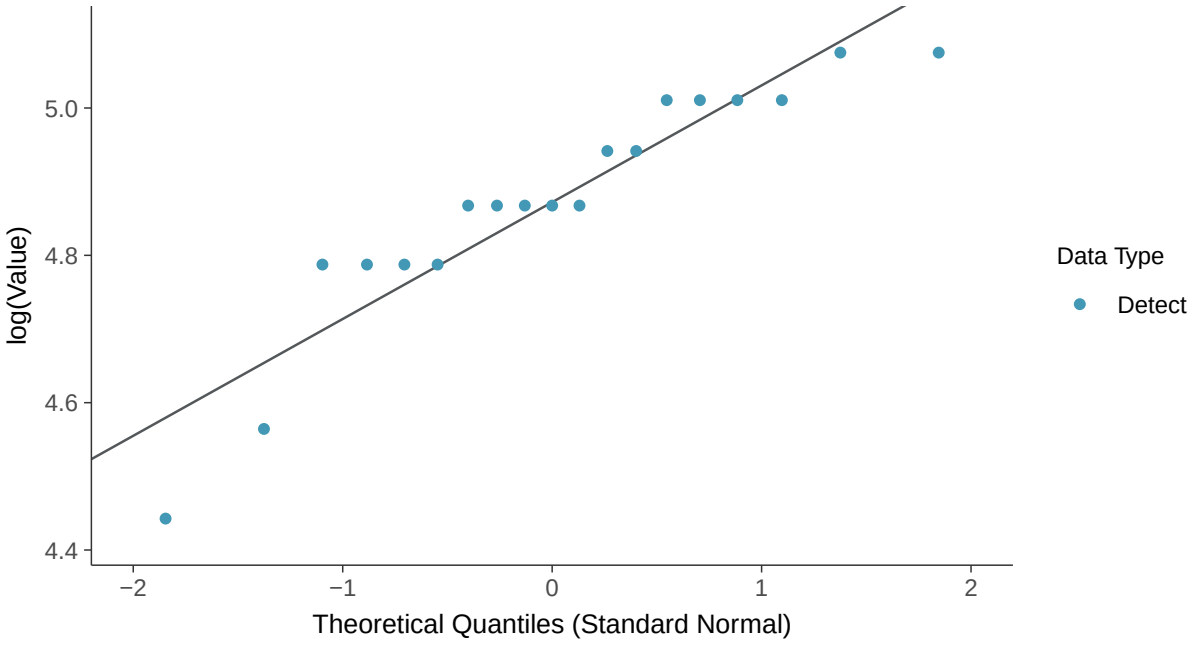
Normal Q-Q plot

Calcium, MW-08 (mg/L)



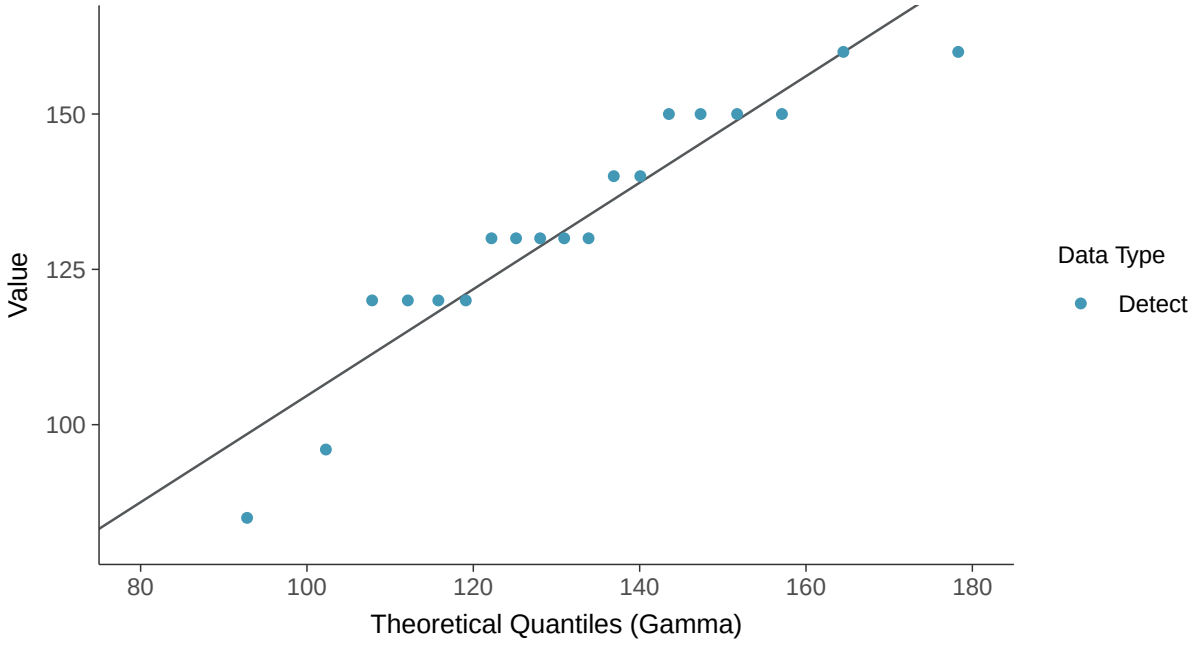
Lognormal Q-Q plot

Calcium, MW-08 (mg/L)



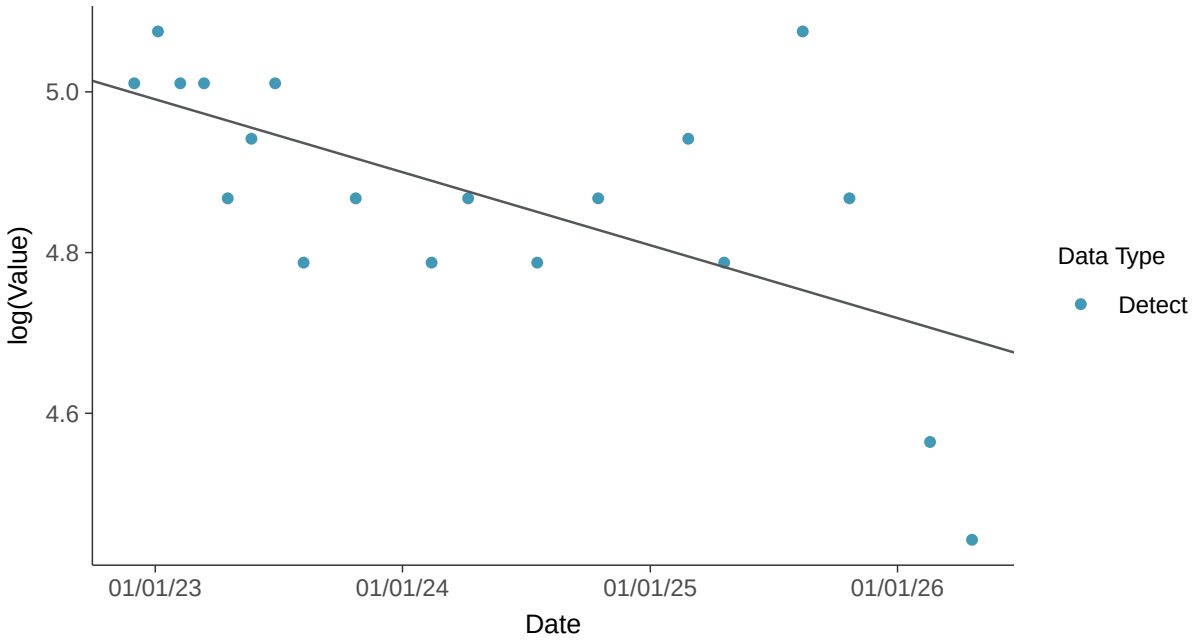
Gamma Q-Q plot

Calcium, MW-08 (mg/L)



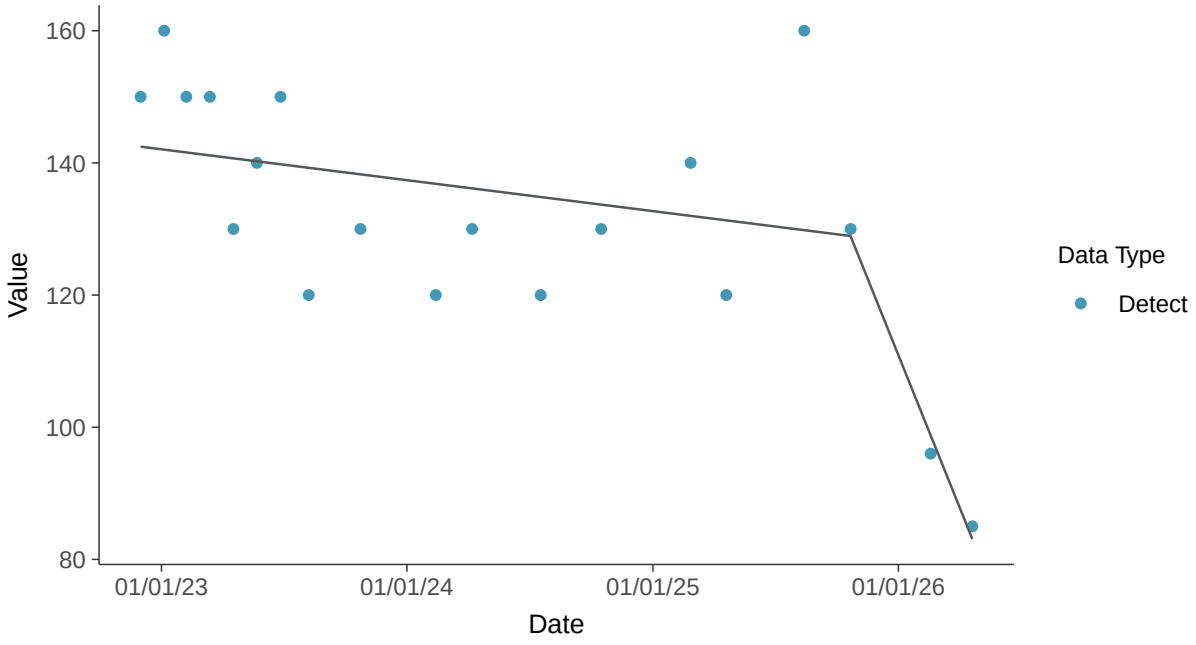
Trend Regression: Lognormal MLE

Calcium, MW-08 (mg/L)



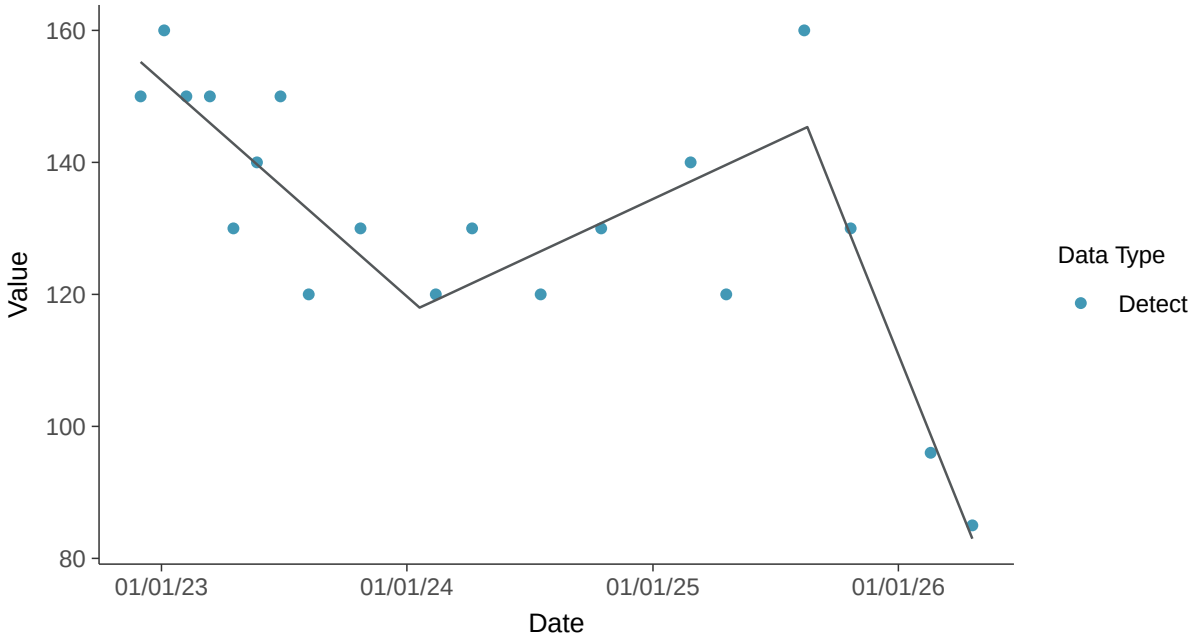
Trend Regression: Piecewise Linear-Linear

Calcium, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-08 (mg/L)

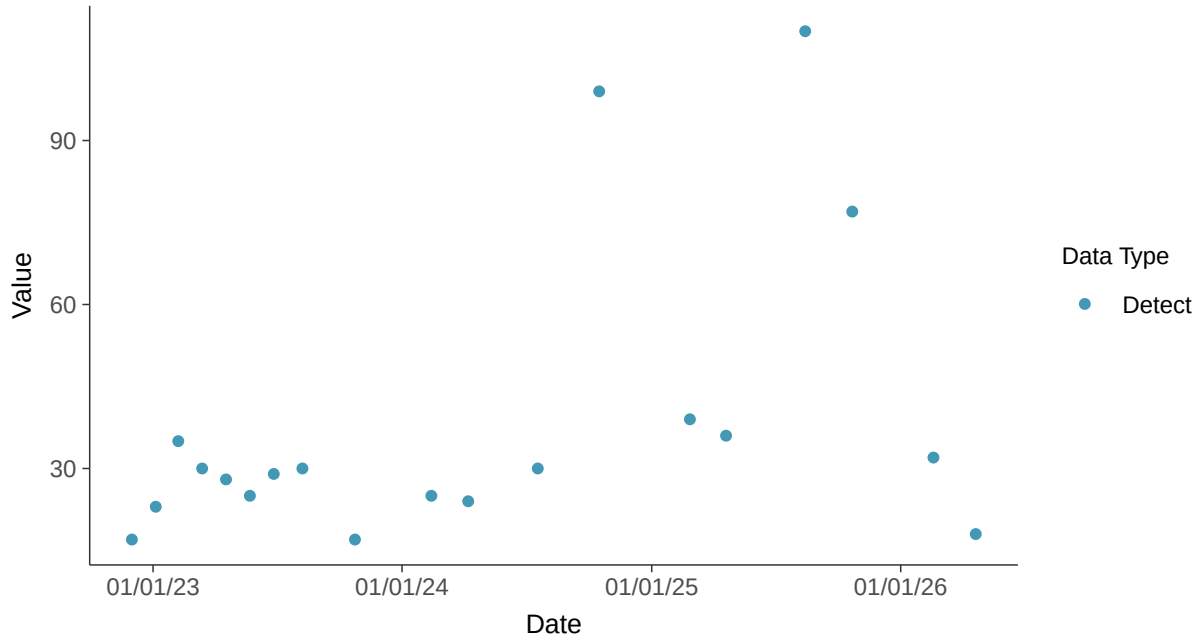


Appendix III: Chloride (as Cl), MW-08

ID: 18_1_3_108

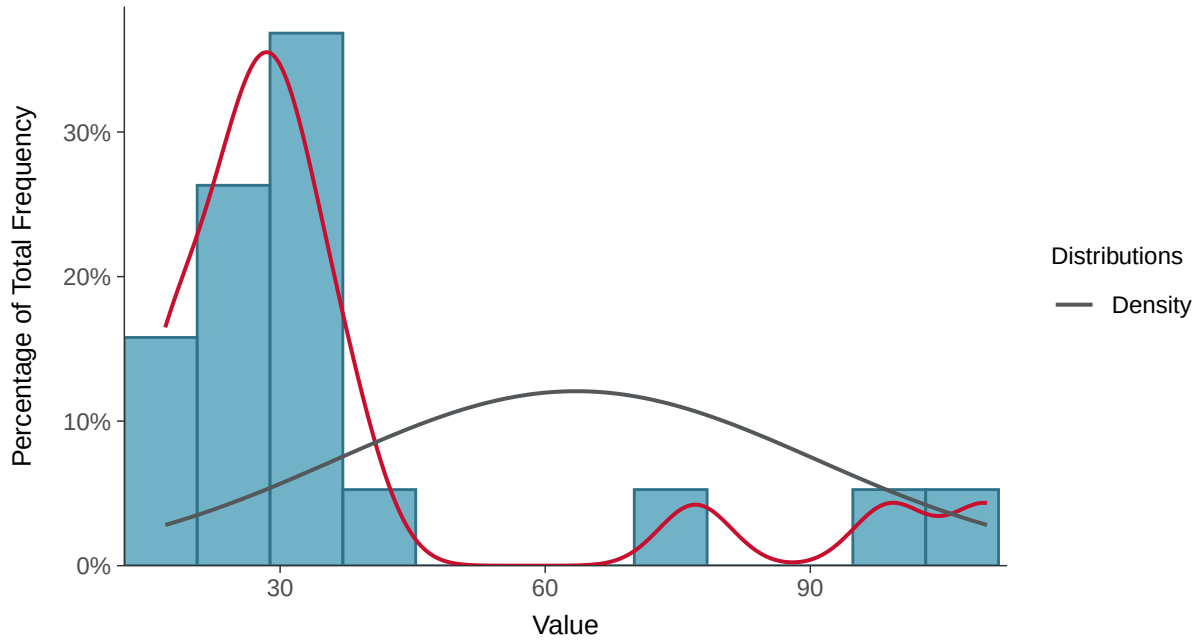
Scatter Plot

Chloride (as Cl), MW-08 (mg/L)



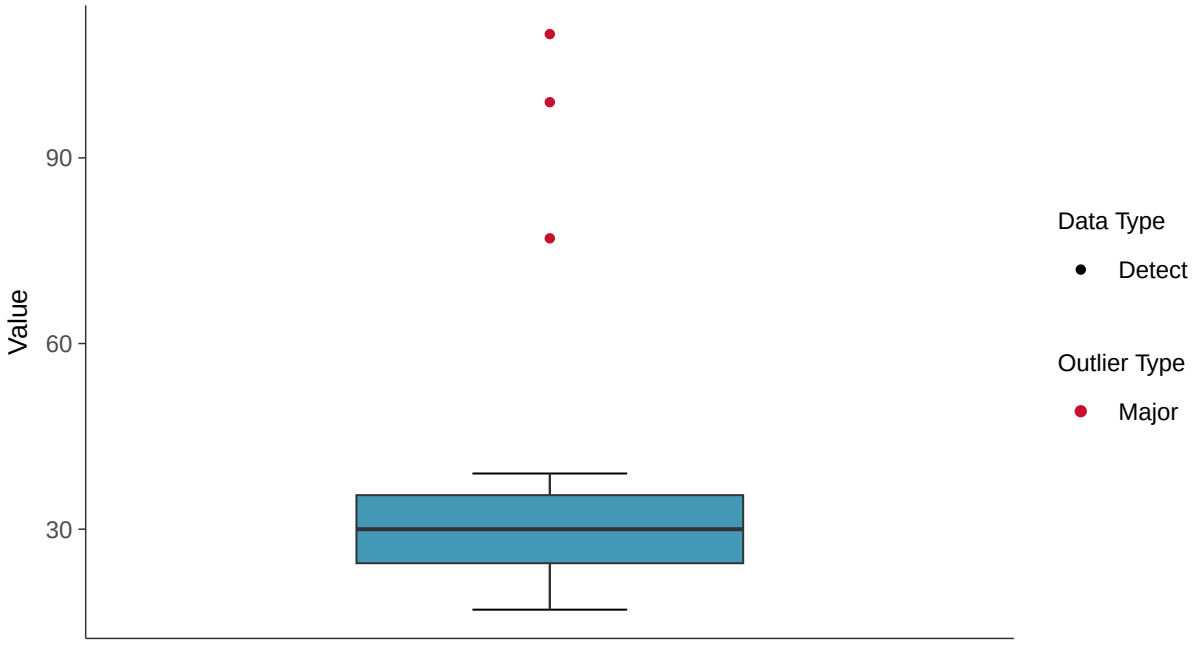
Histogram

Chloride (as Cl), MW-08 (mg/L)



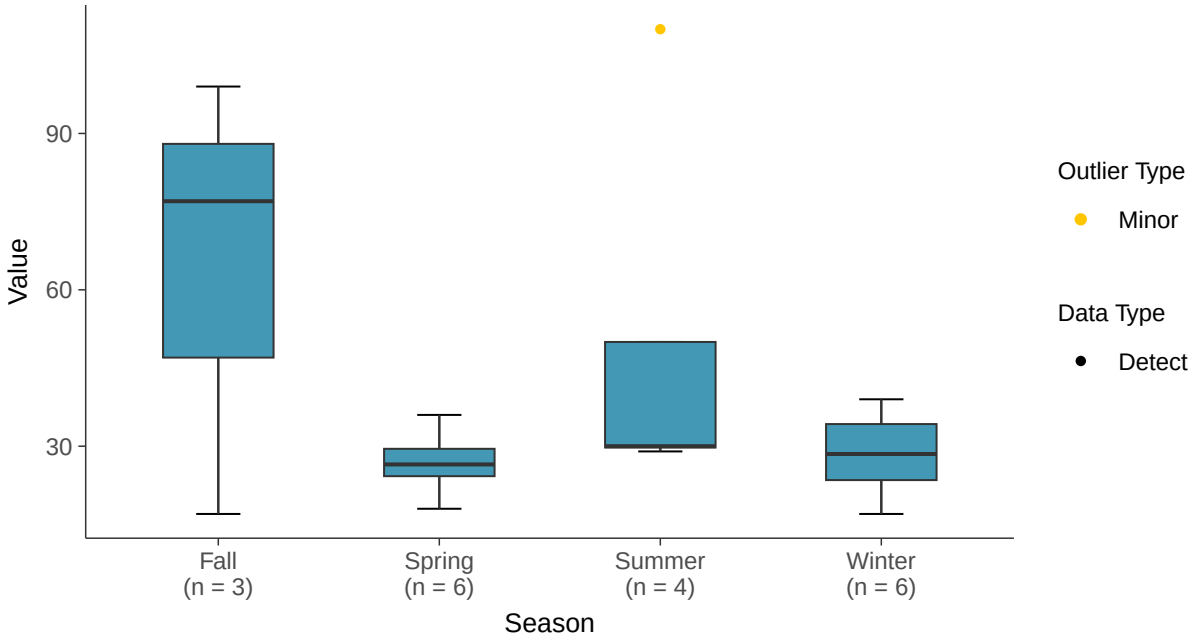
Boxplot

Chloride (as Cl), MW-08 (mg/L)



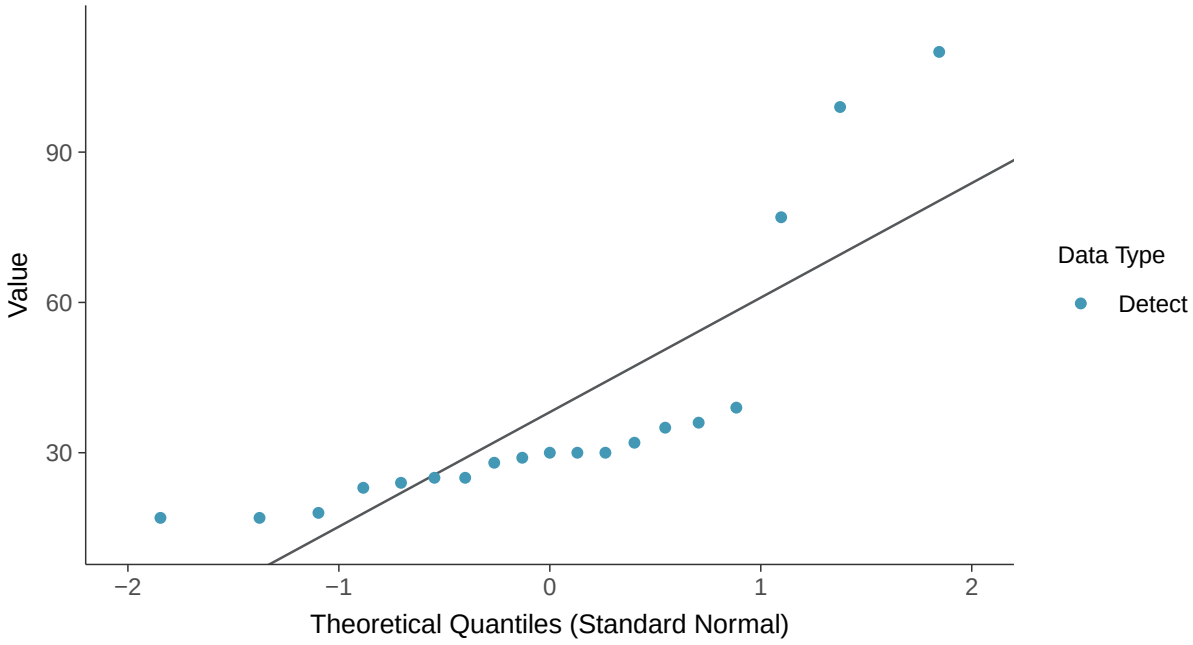
Boxplot by Season

Chloride (as Cl), MW-08 (mg/L)



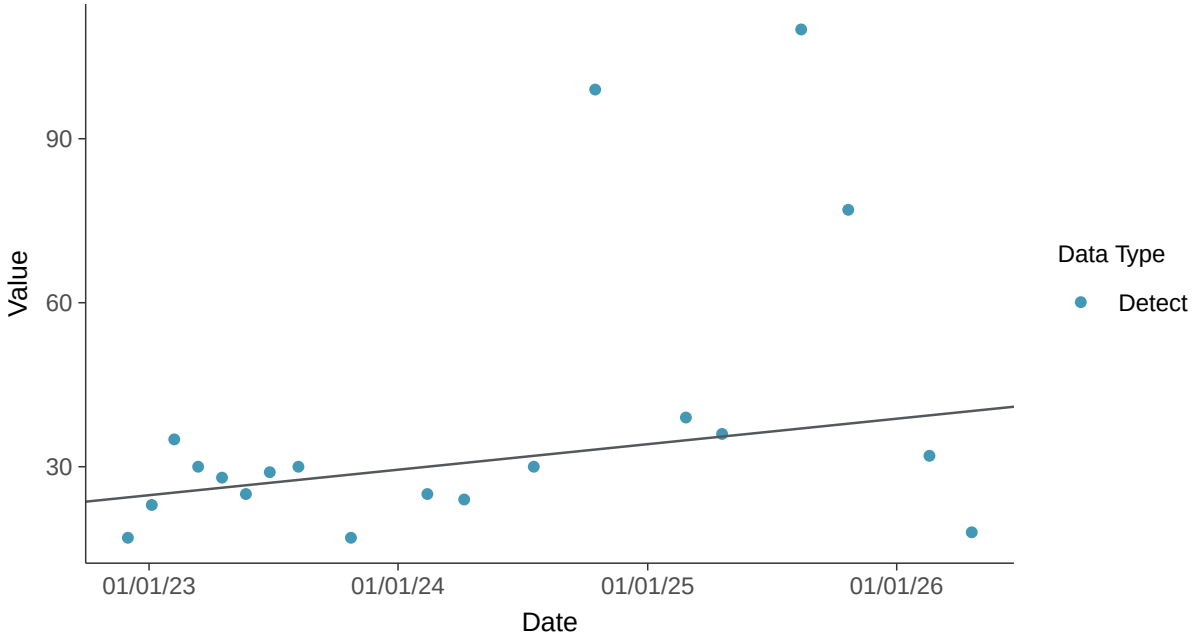
Normal Q-Q plot

Chloride (as Cl), MW-08 (mg/L)



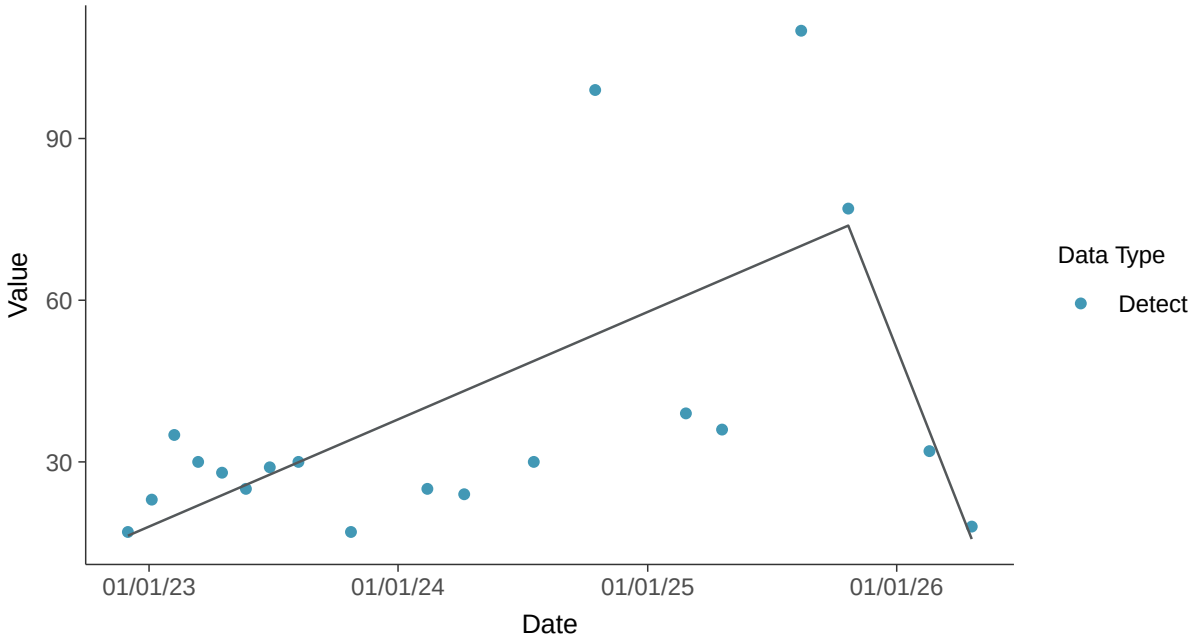
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-08 (mg/L)



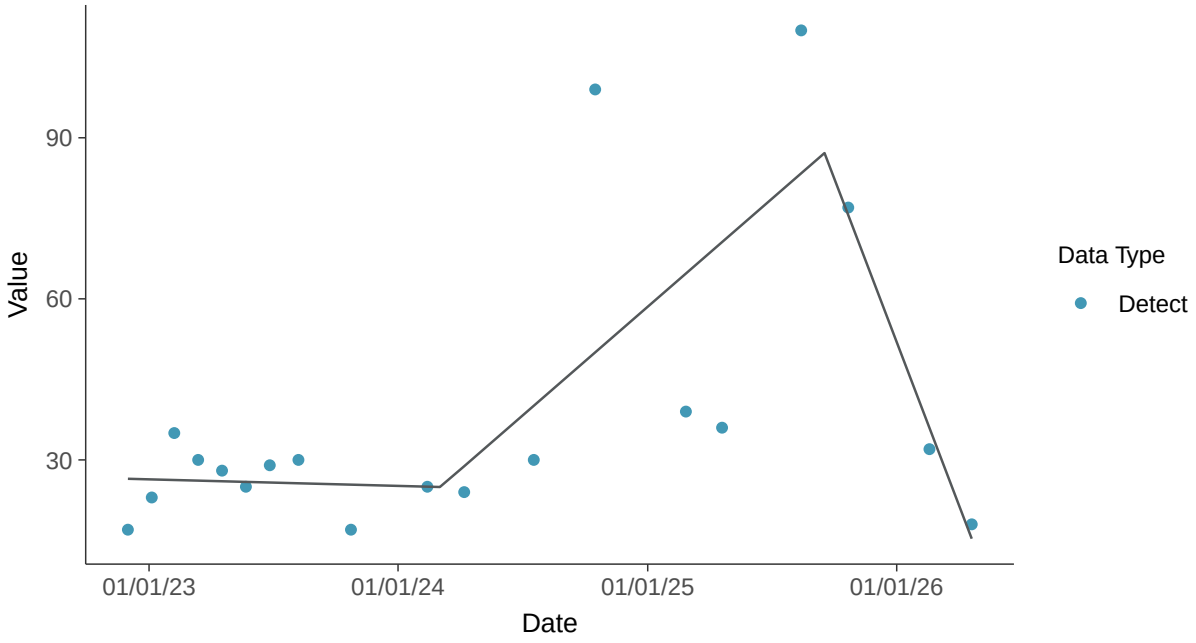
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-08 (mg/L)



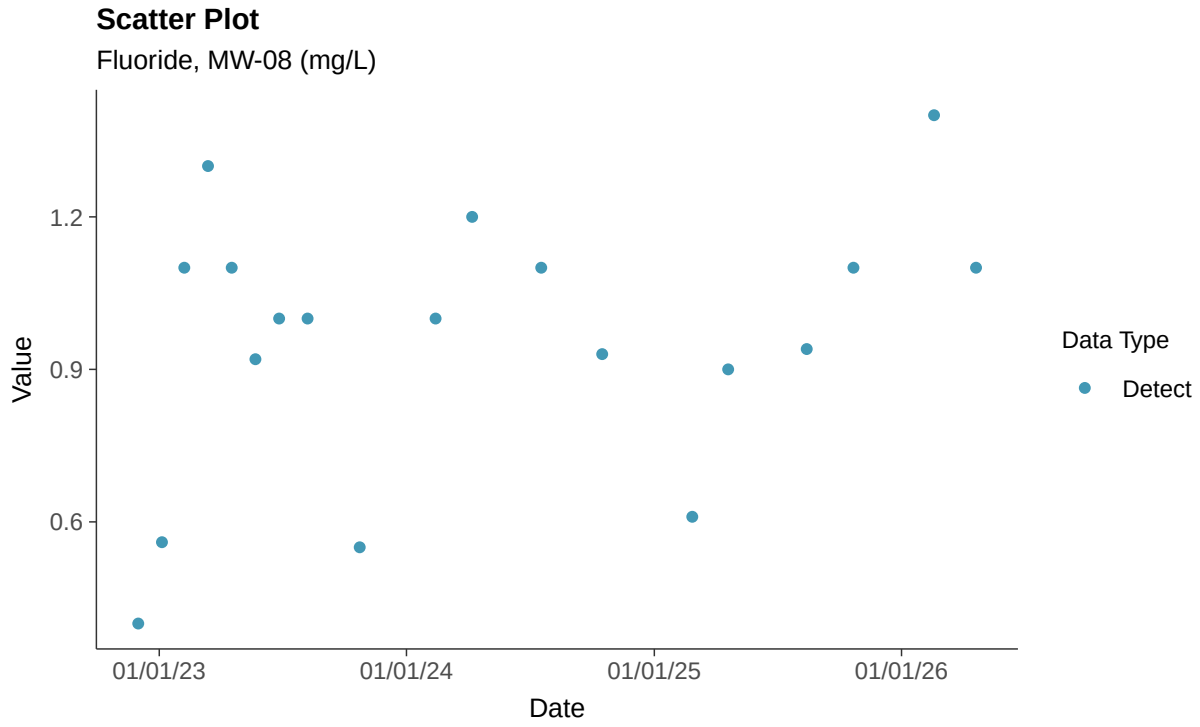
Trend Regression: Piecewise Linear-Linear-Linear

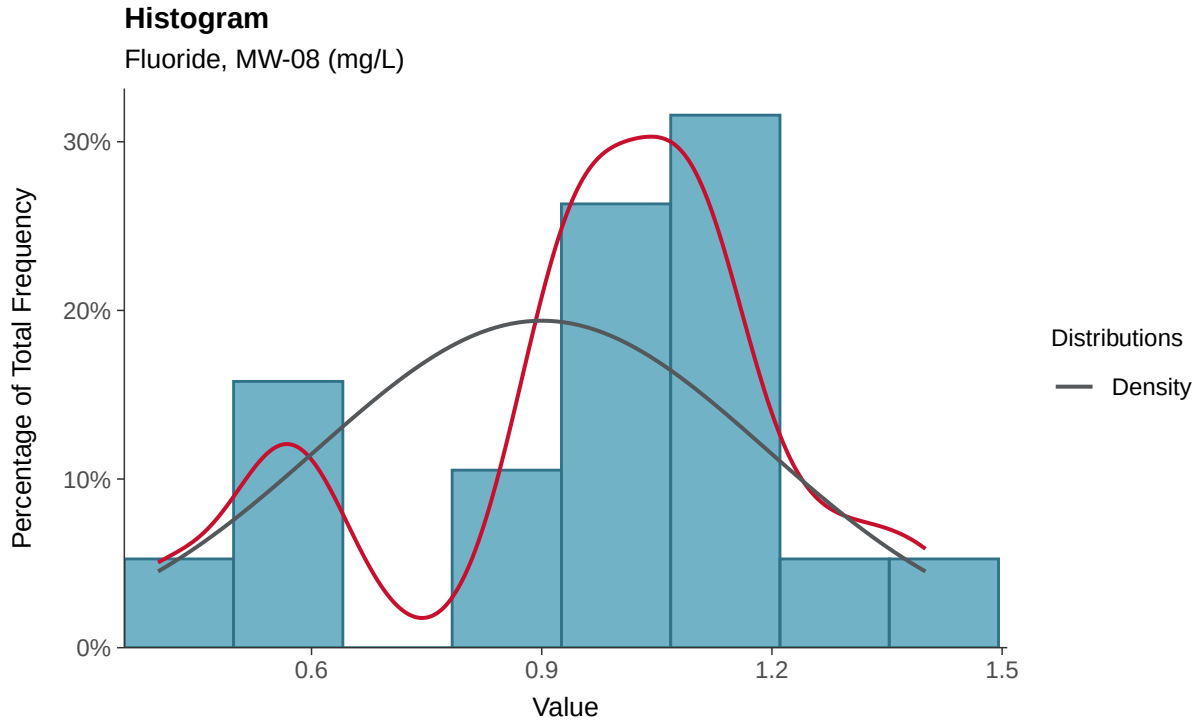
Chloride (as Cl), MW-08 (mg/L)



Appendix III: Fluoride, MW-08

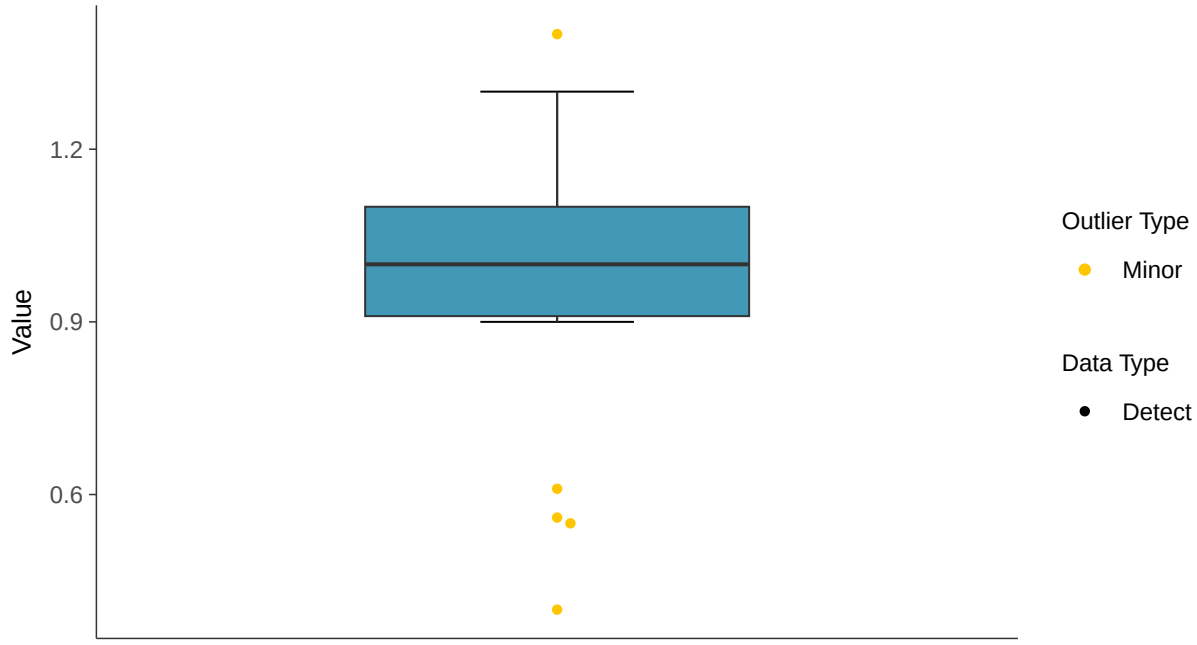
ID: 18_1_3_112





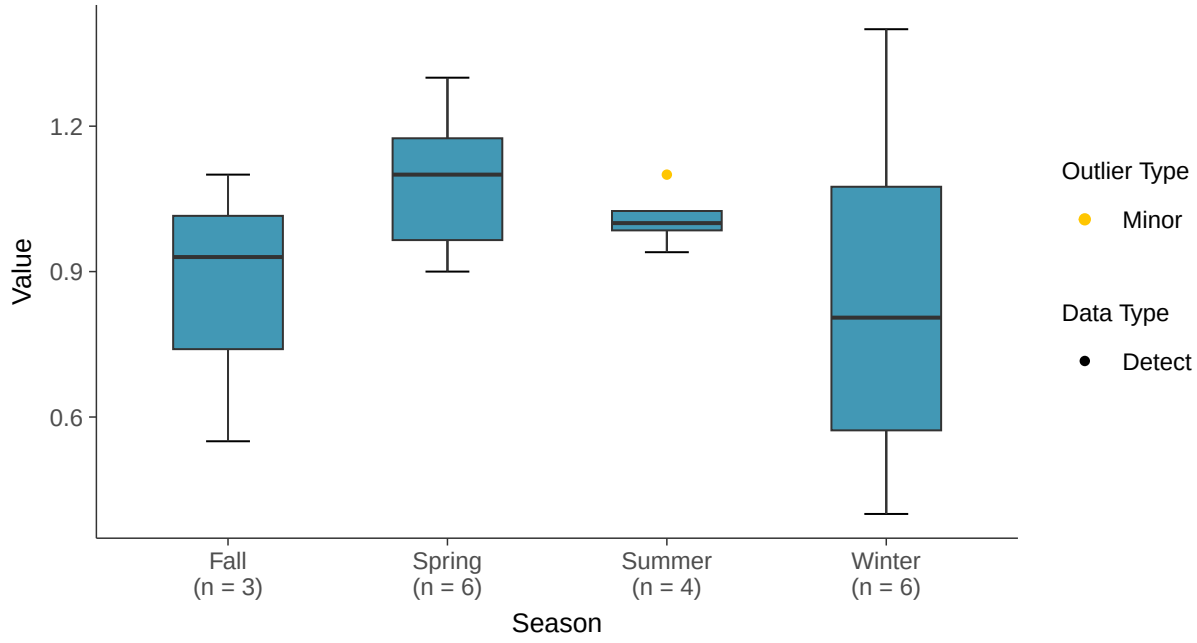
Boxplot

Fluoride, MW-08 (mg/L)



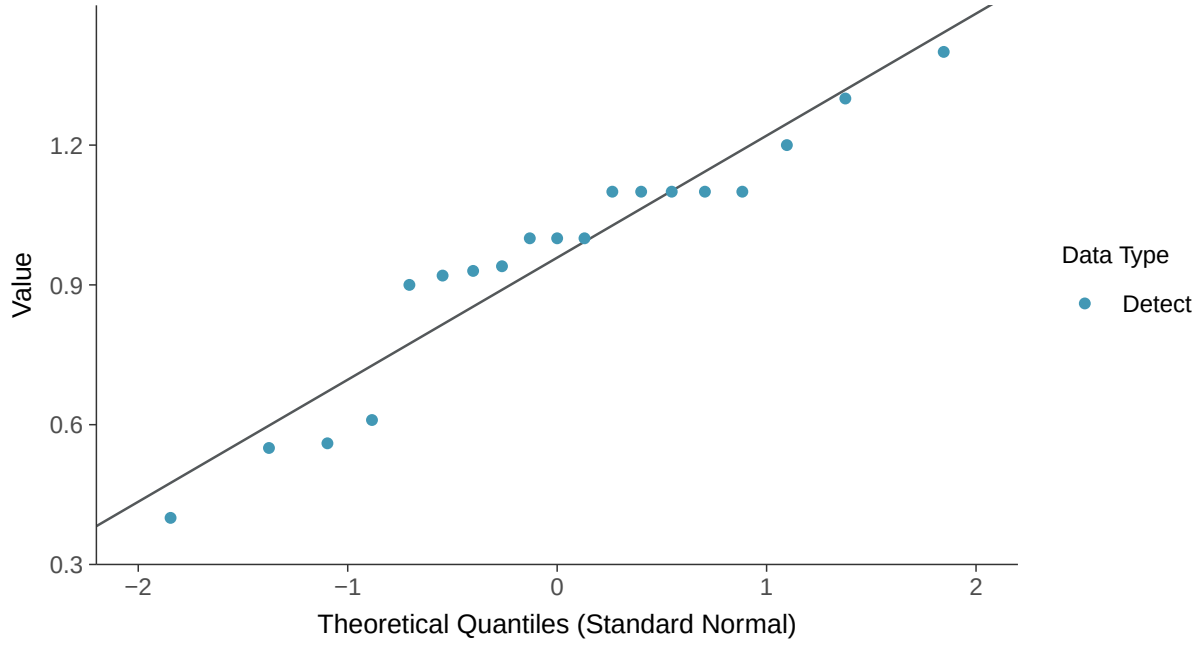
Boxplot by Season

Fluoride, MW-08 (mg/L)



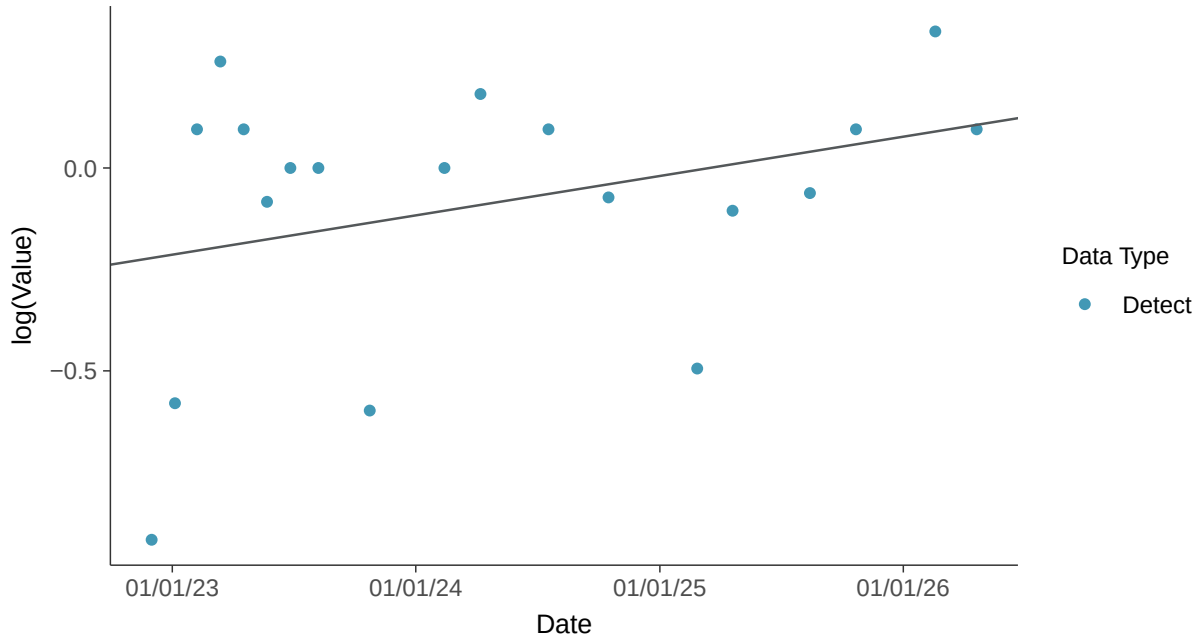
Normal Q-Q plot

Fluoride, MW-08 (mg/L)



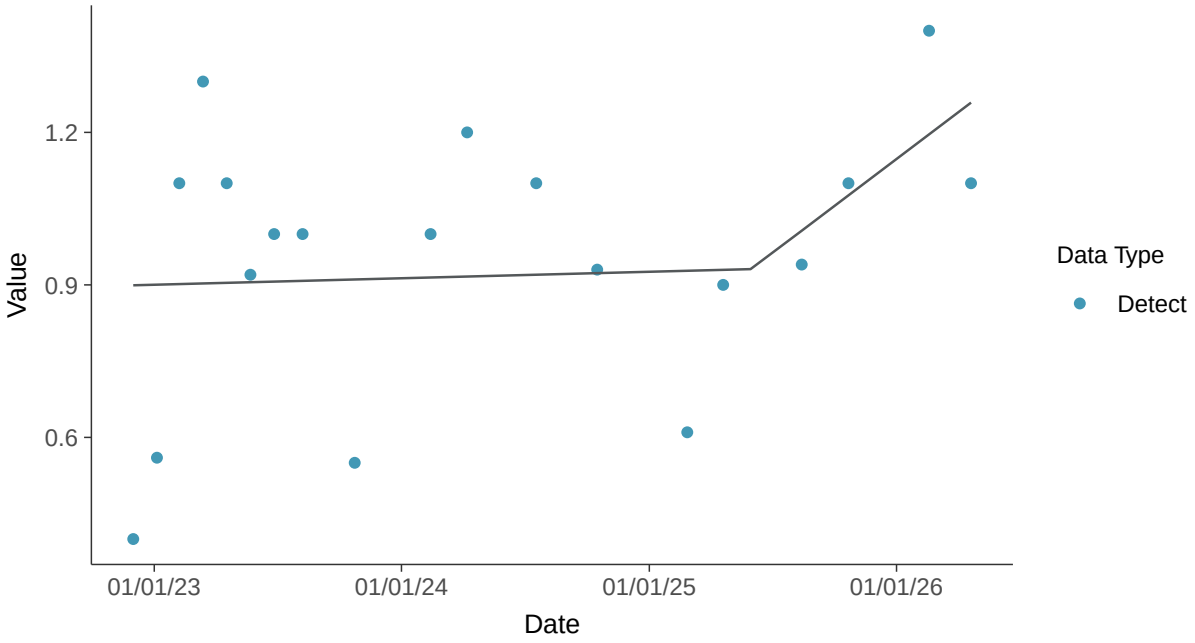
Trend Regression: Lognormal MLE

Fluoride, MW-08 (mg/L)



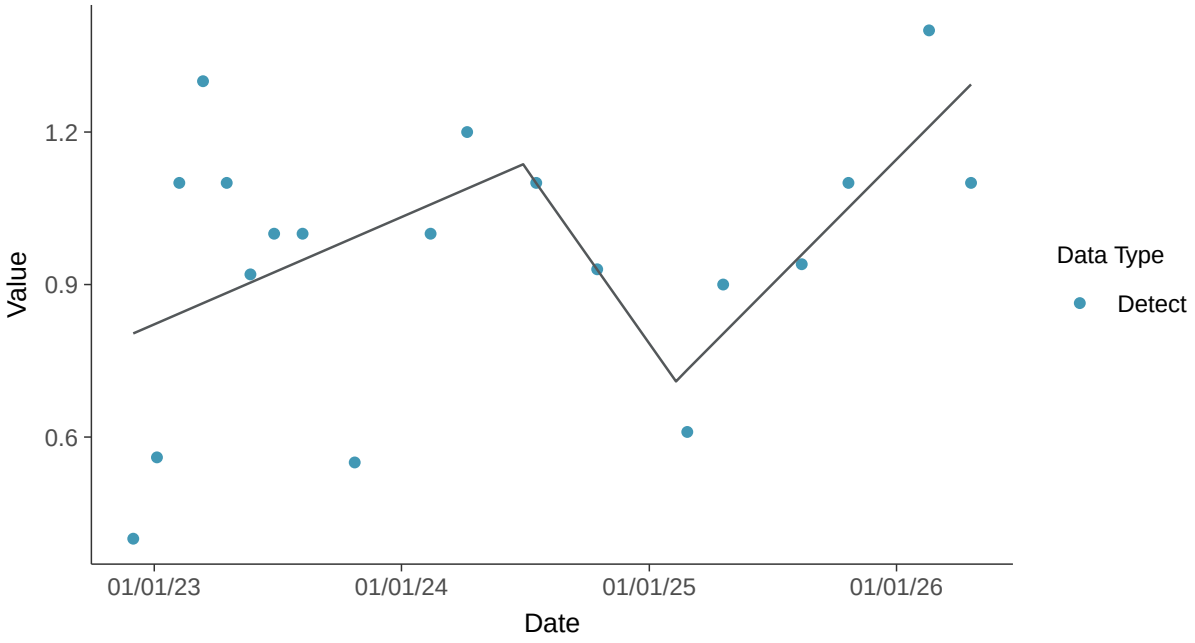
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-08 (mg/L)



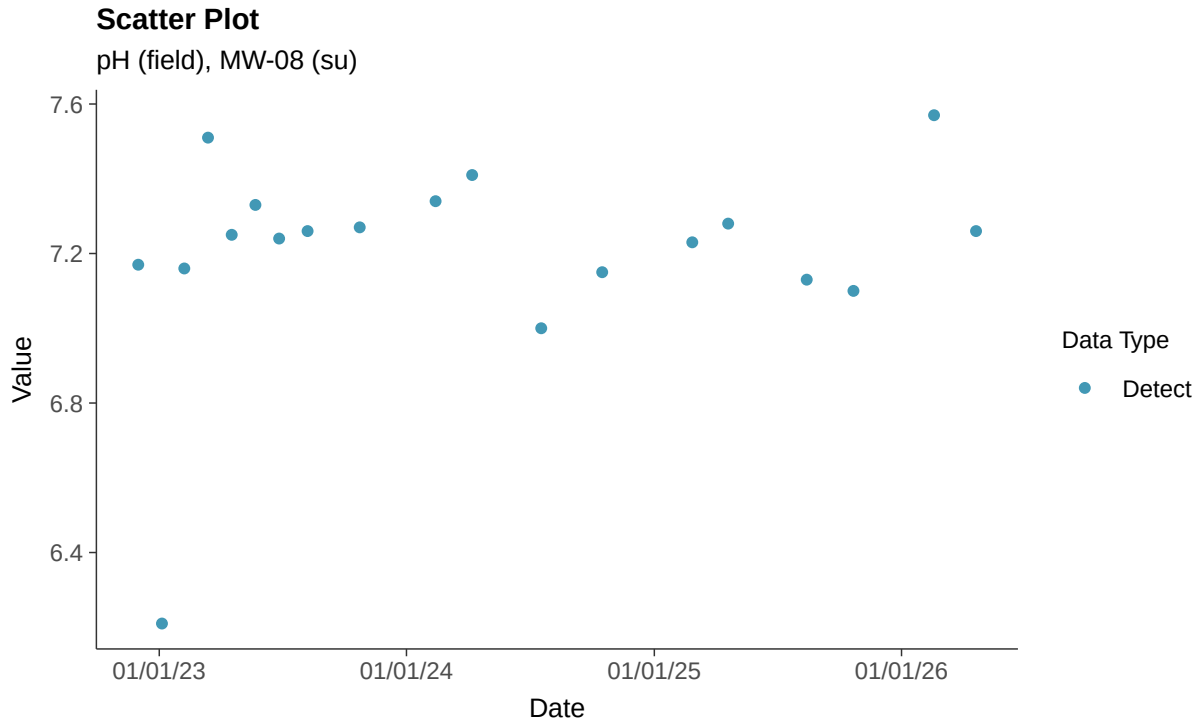
Trend Regression: Piecewise Linear-Linear-Linear

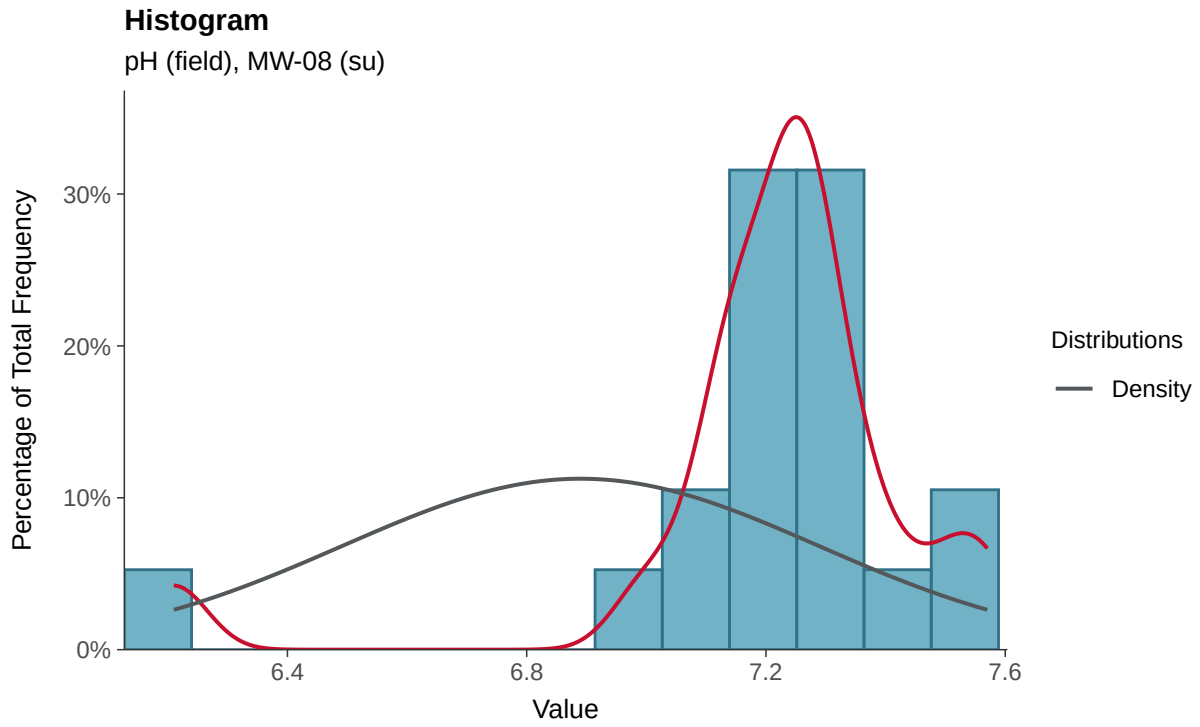
Fluoride, MW-08 (mg/L)



Appendix III: pH (field), MW-08

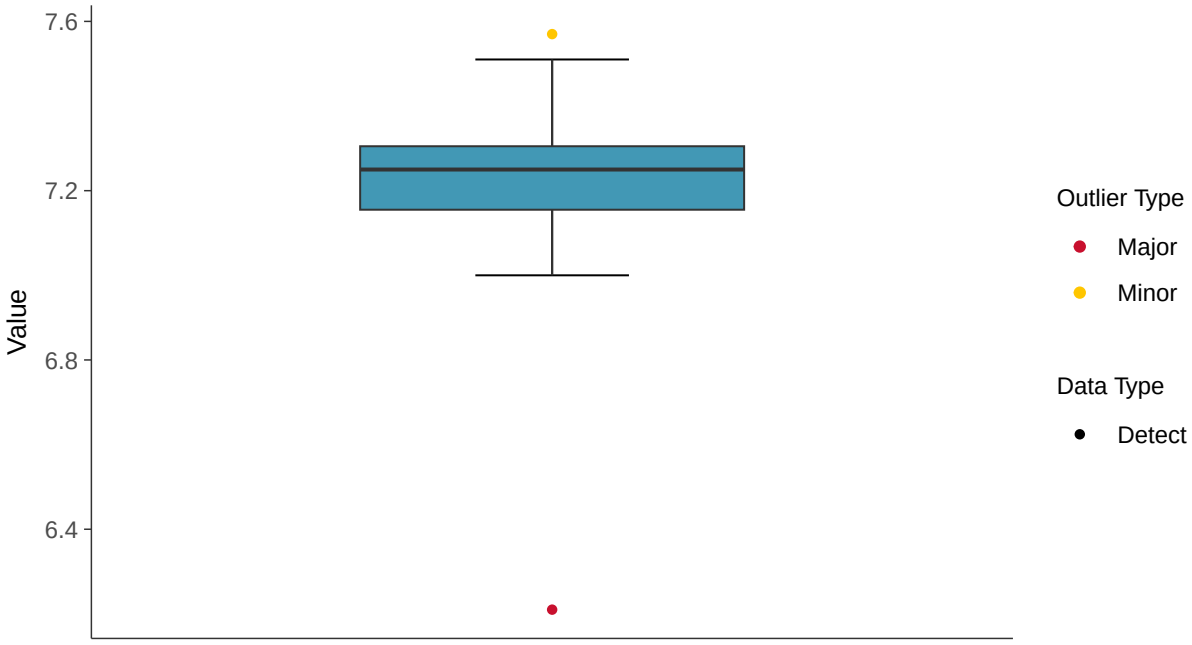
ID: 18_1_3_120





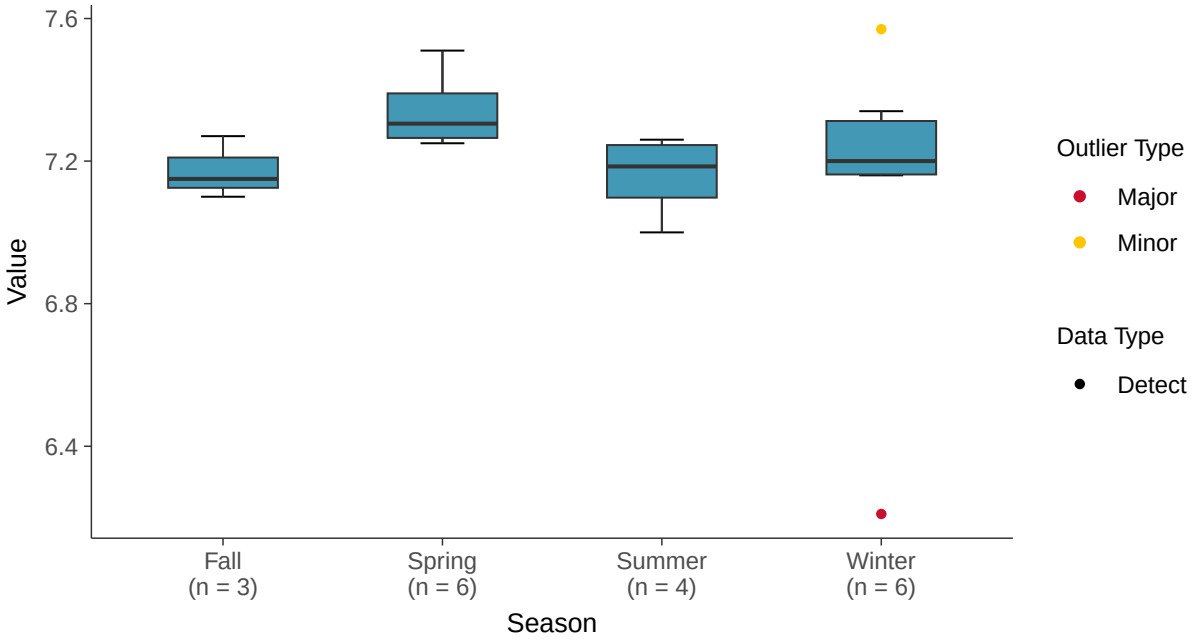
Boxplot

pH (field), MW-08 (su)



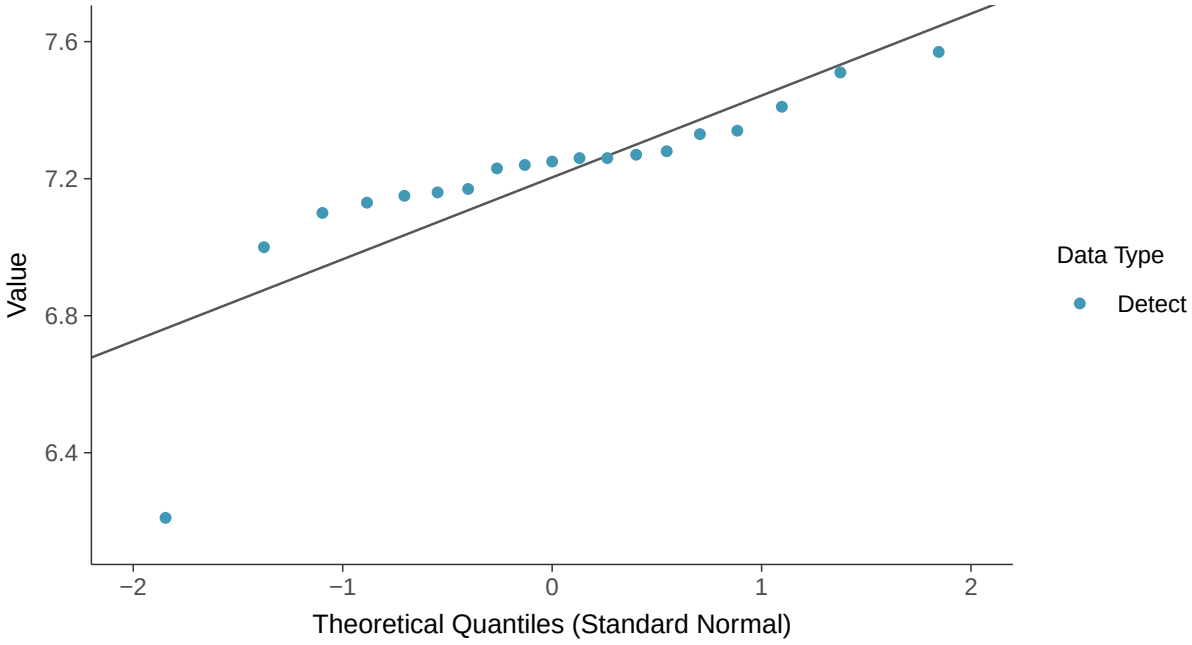
Boxplot by Season

pH (field), MW-08 (su)



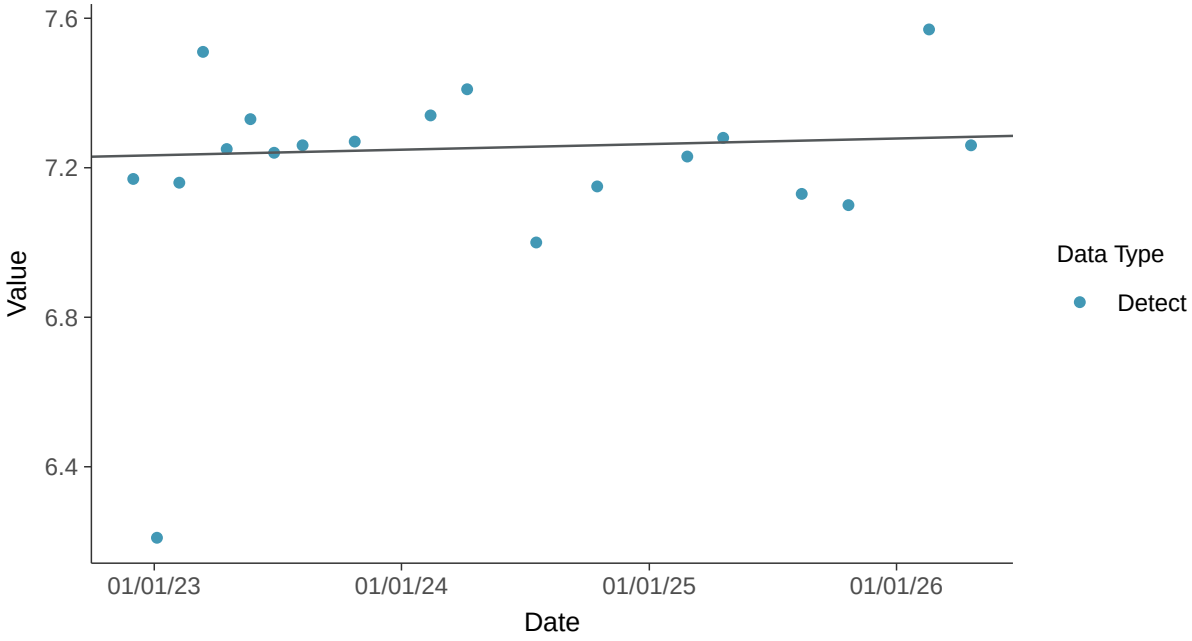
Normal Q-Q plot

pH (field), MW-08 (su)



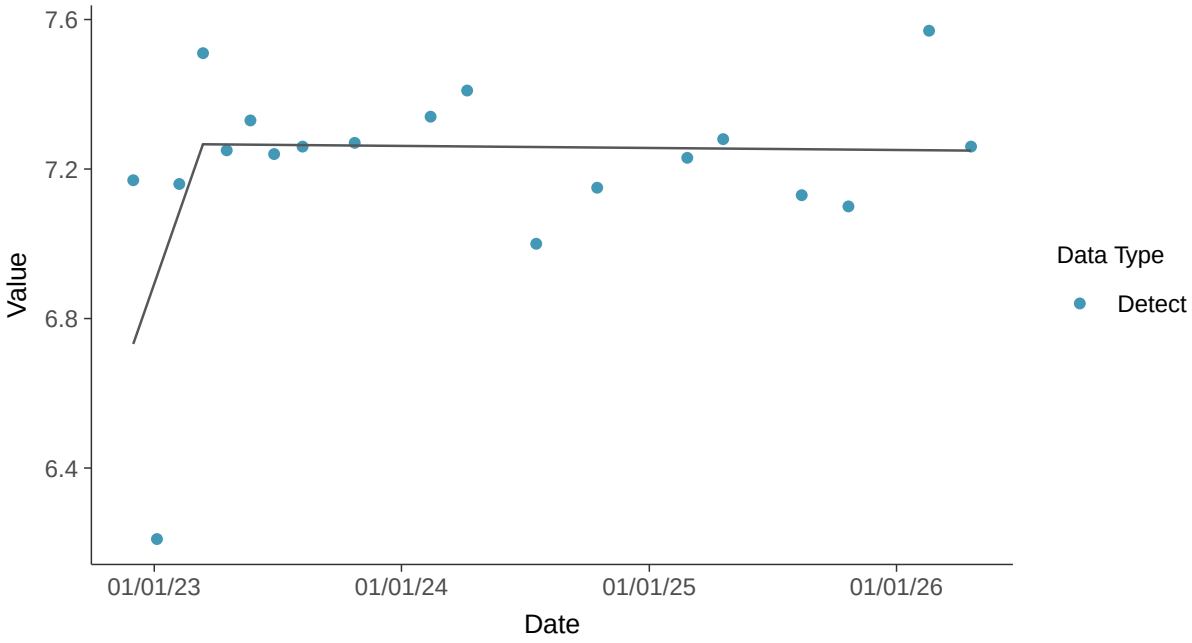
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-08 (su)



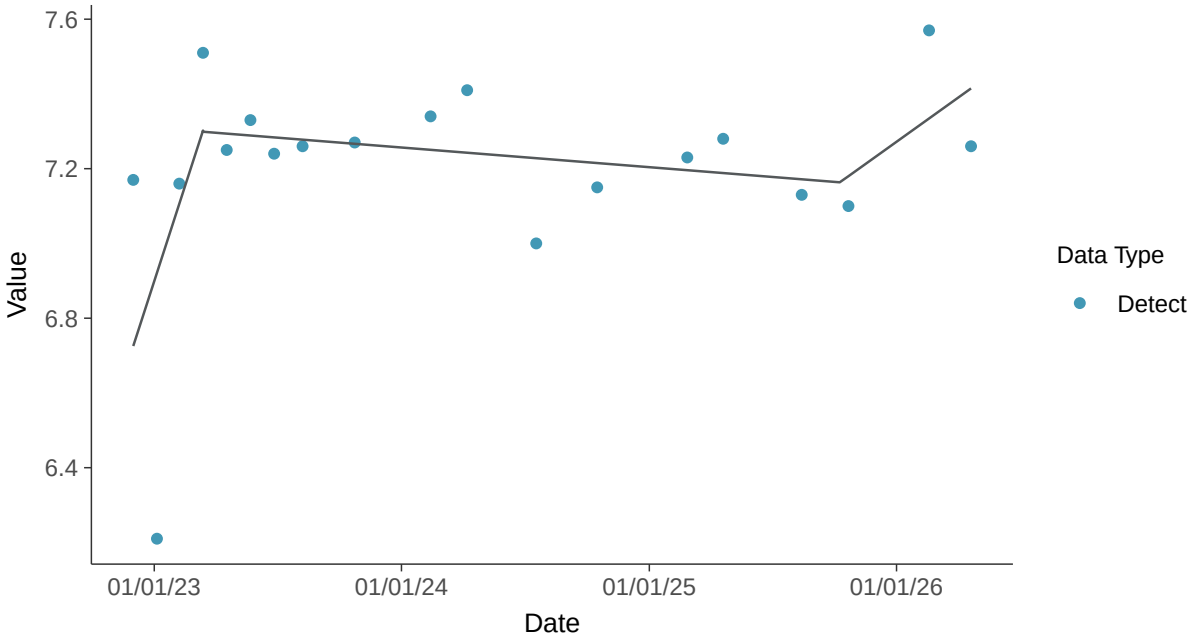
Trend Regression: Piecewise Linear-Linear

pH (field), MW-08 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-08 (su)

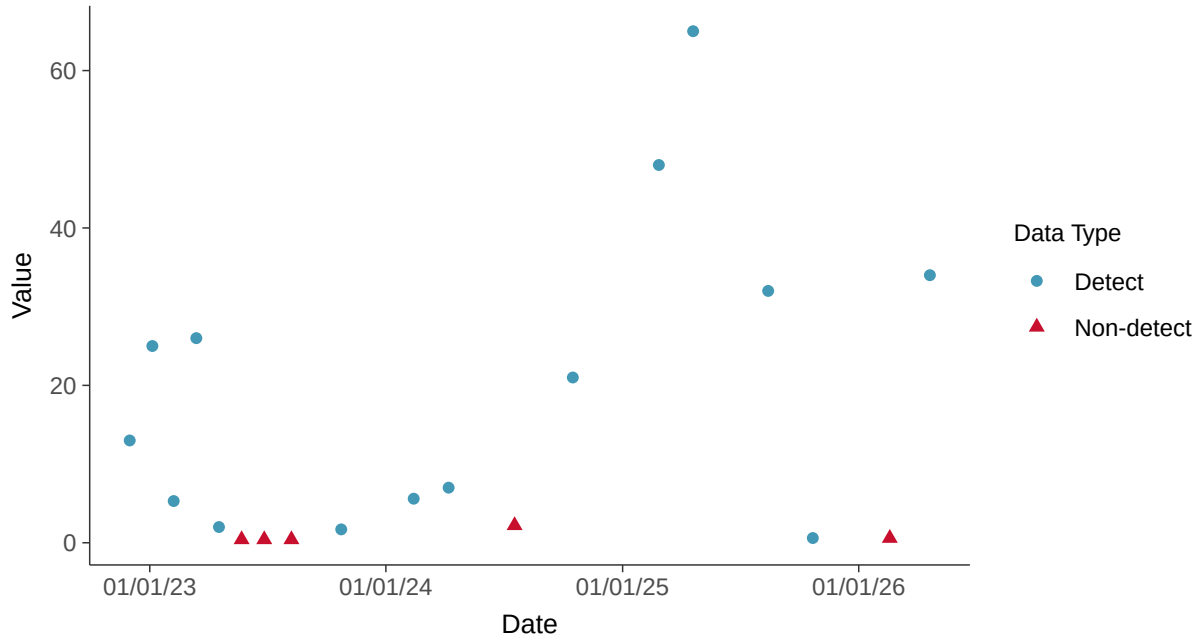


Appendix III: Sulfate (as SO4), MW-08

ID: 18_1_3_124

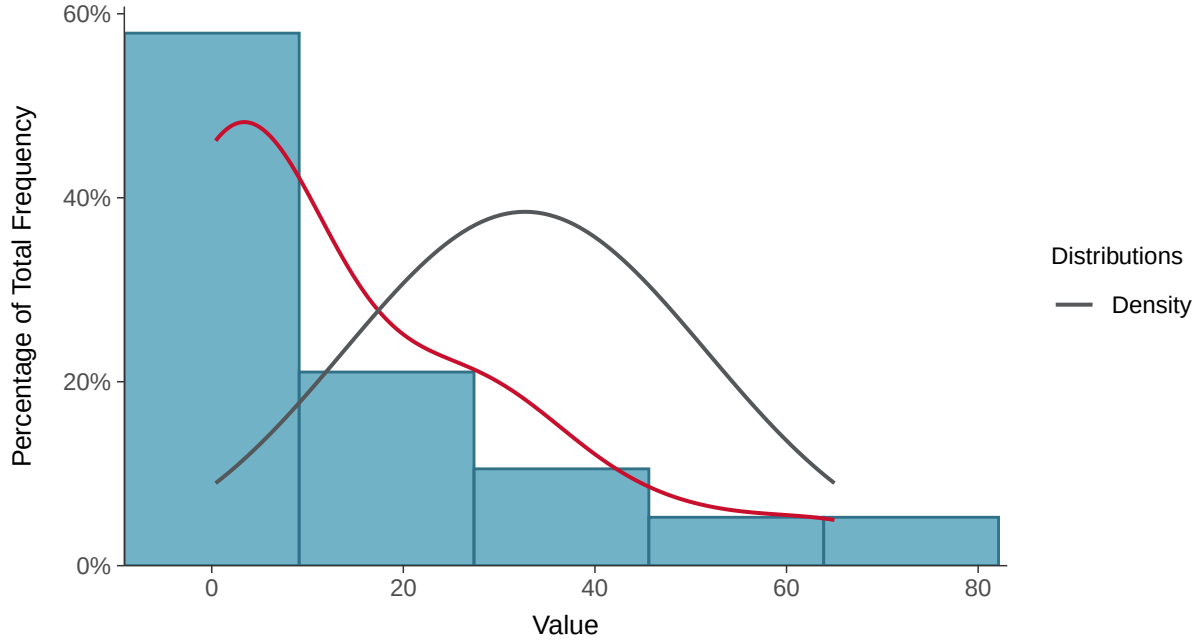
Scatter Plot

Sulfate (as SO4), MW-08 (mg/L)



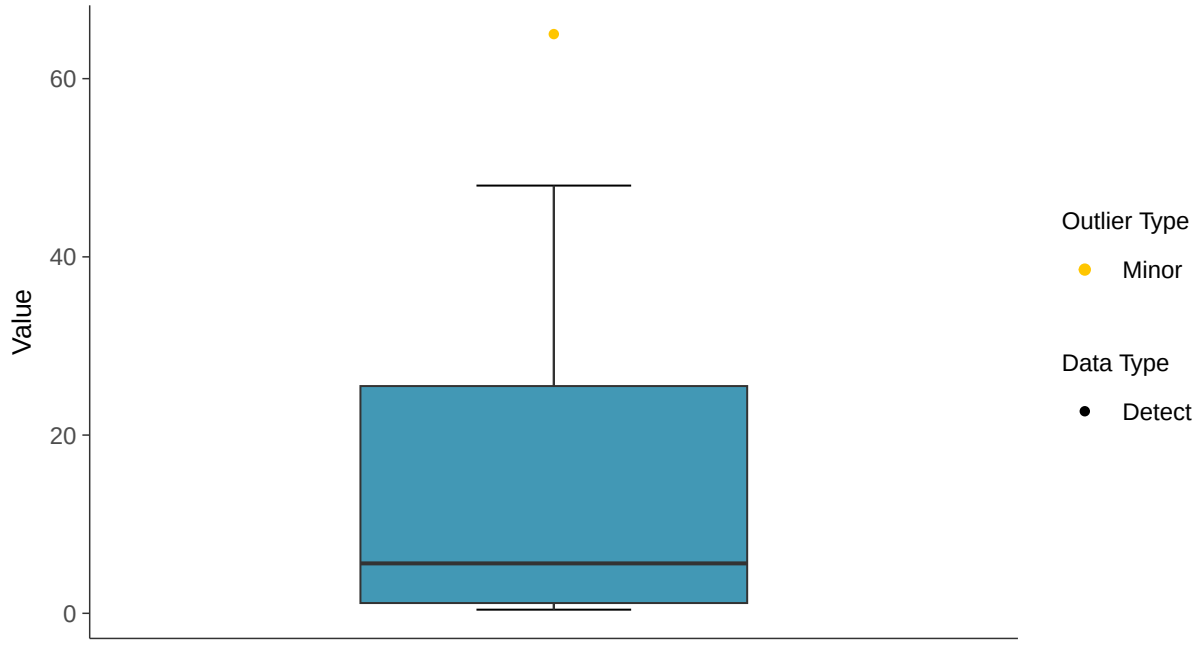
Histogram

Sulfate (as SO4), MW-08 (mg/L)



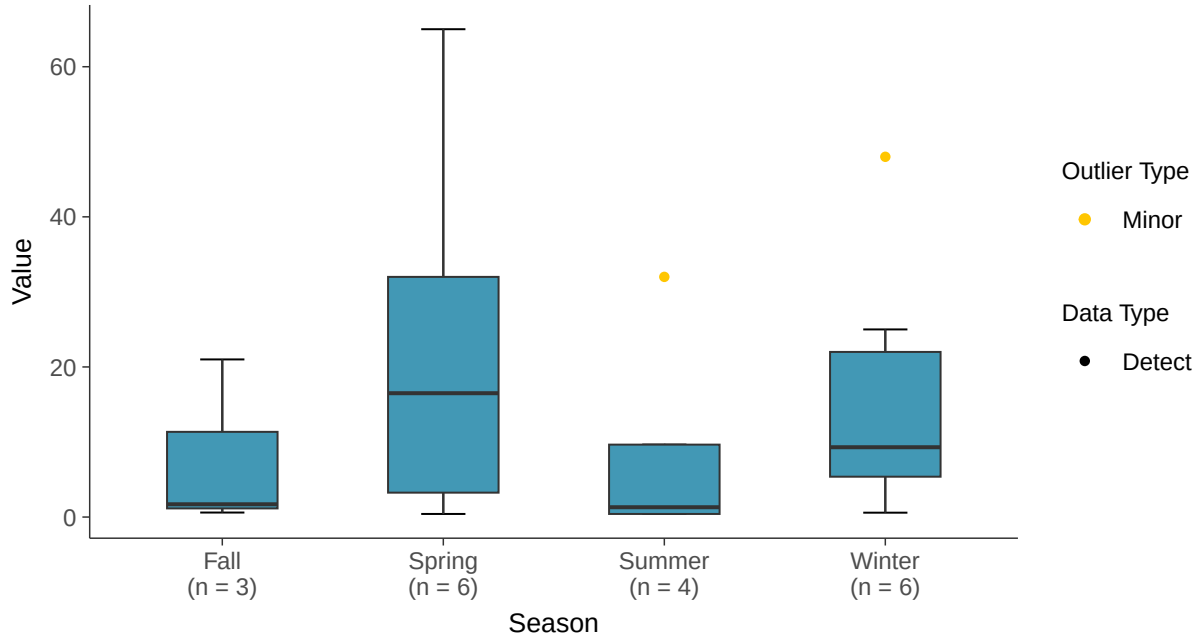
Boxplot

Sulfate (as SO4), MW-08 (mg/L)



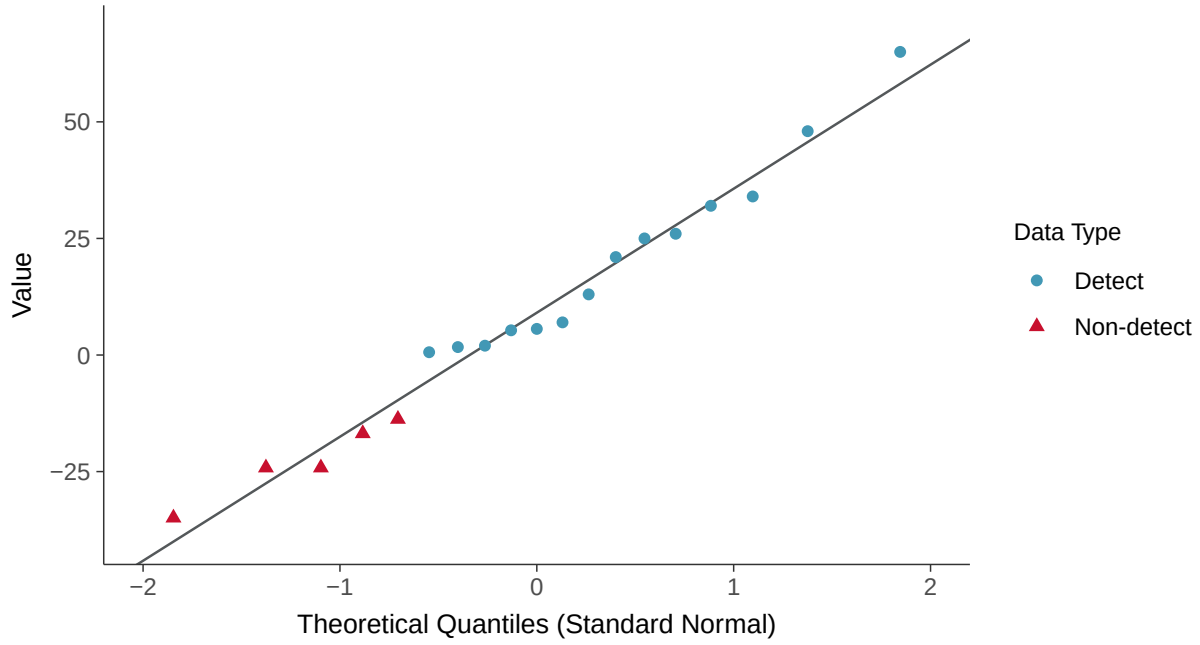
Boxplot by Season

Sulfate (as SO4), MW-08 (mg/L)



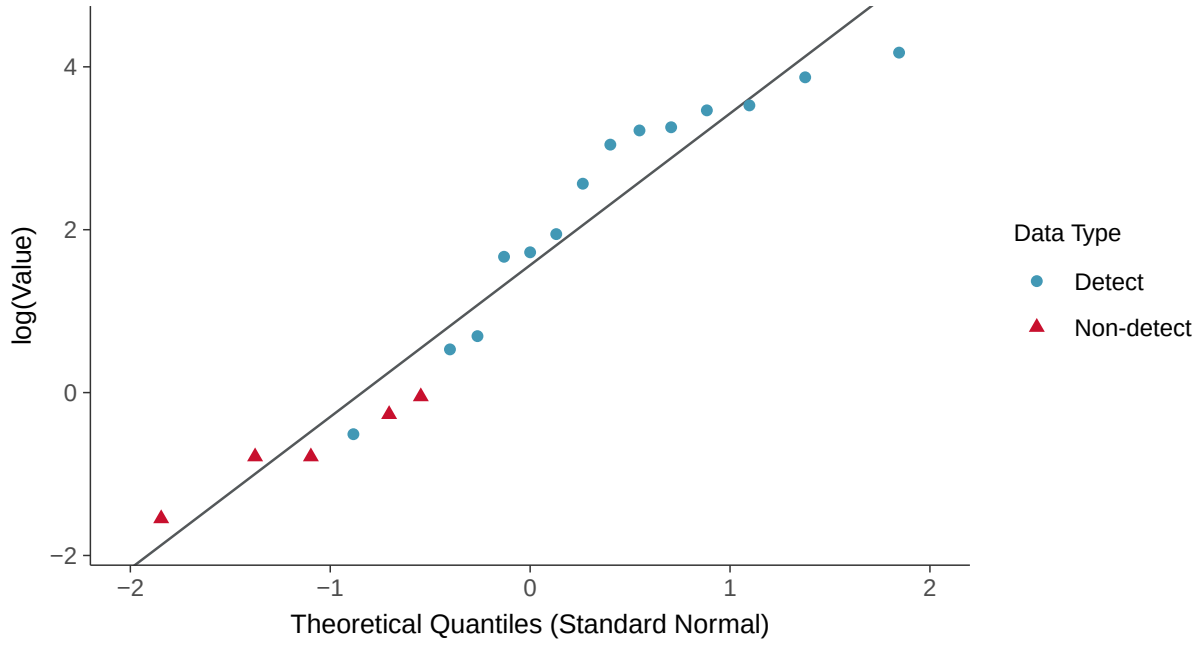
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-08 (mg/L)



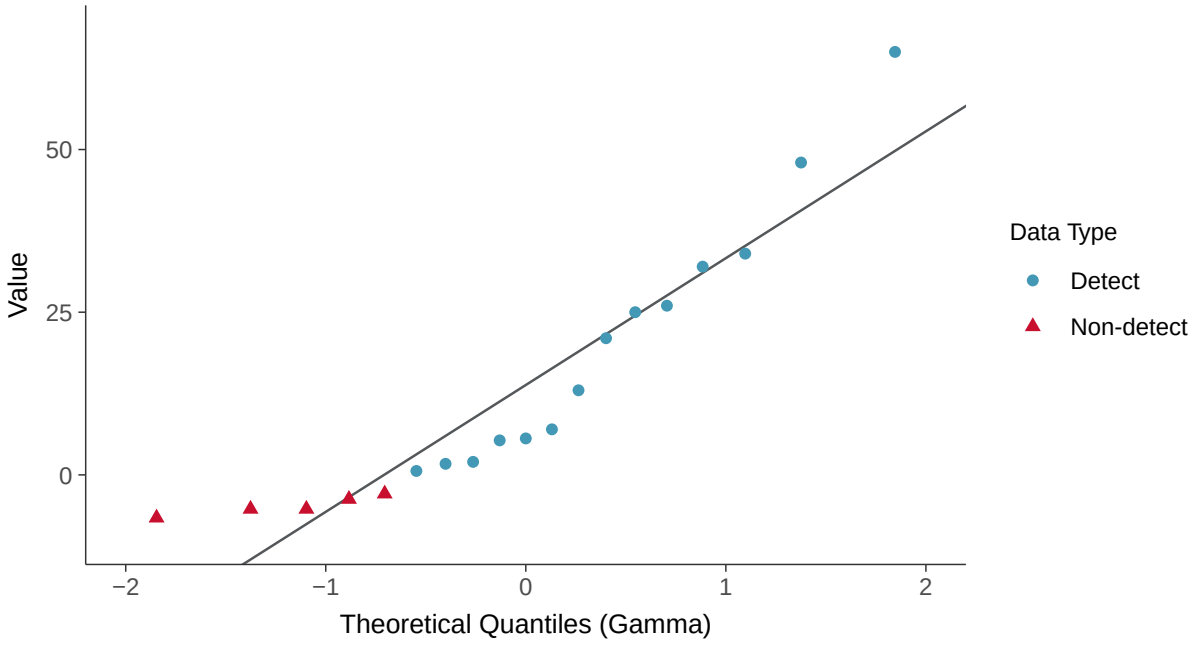
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-08 (mg/L)



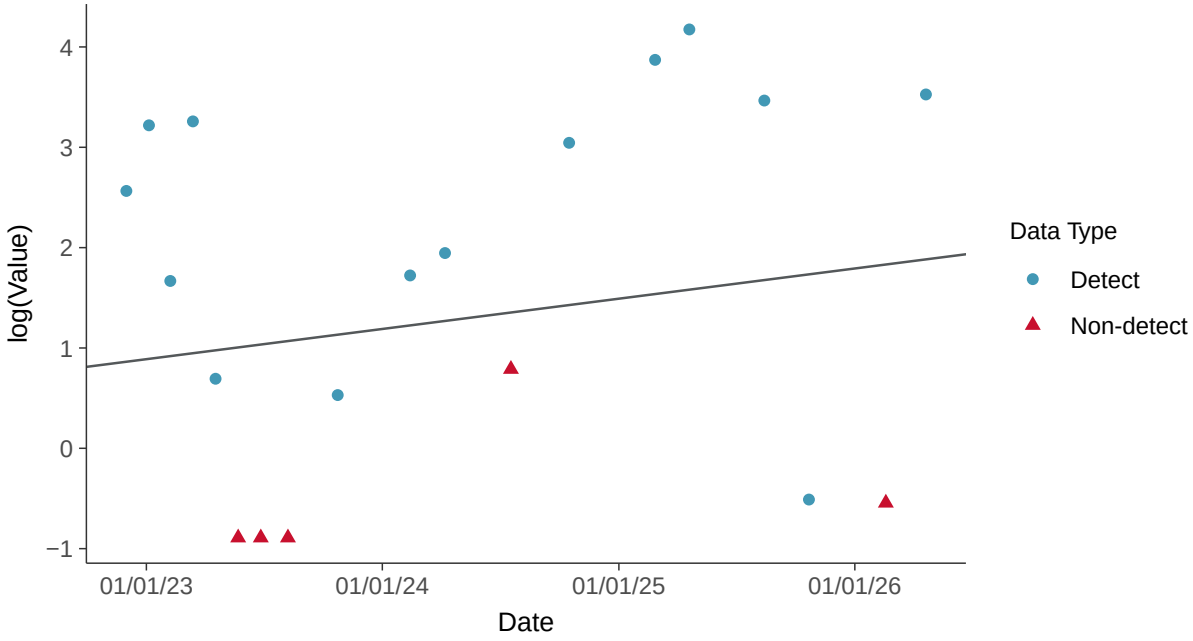
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-08 (mg/L)



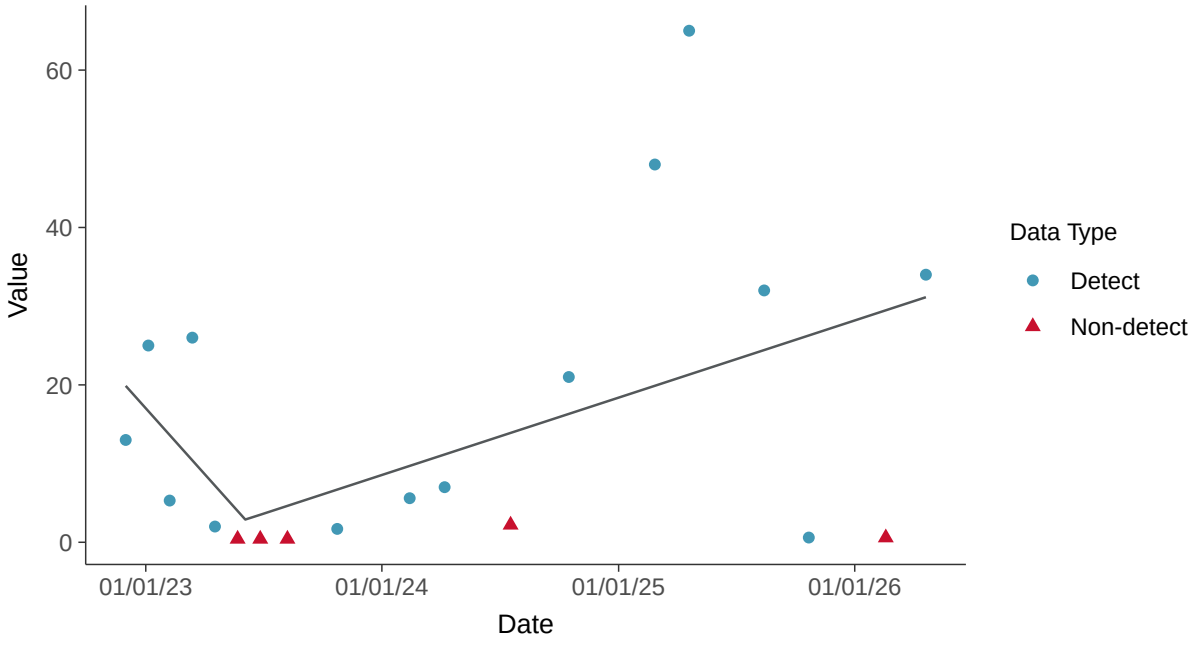
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-08 (mg/L)



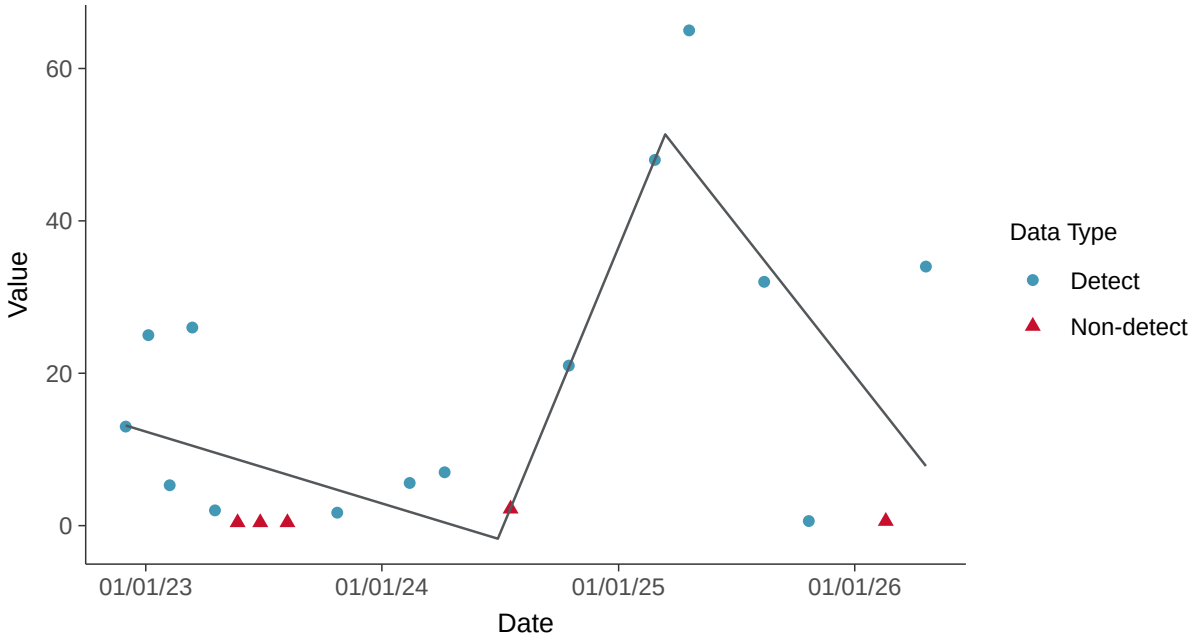
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-08 (mg/L)

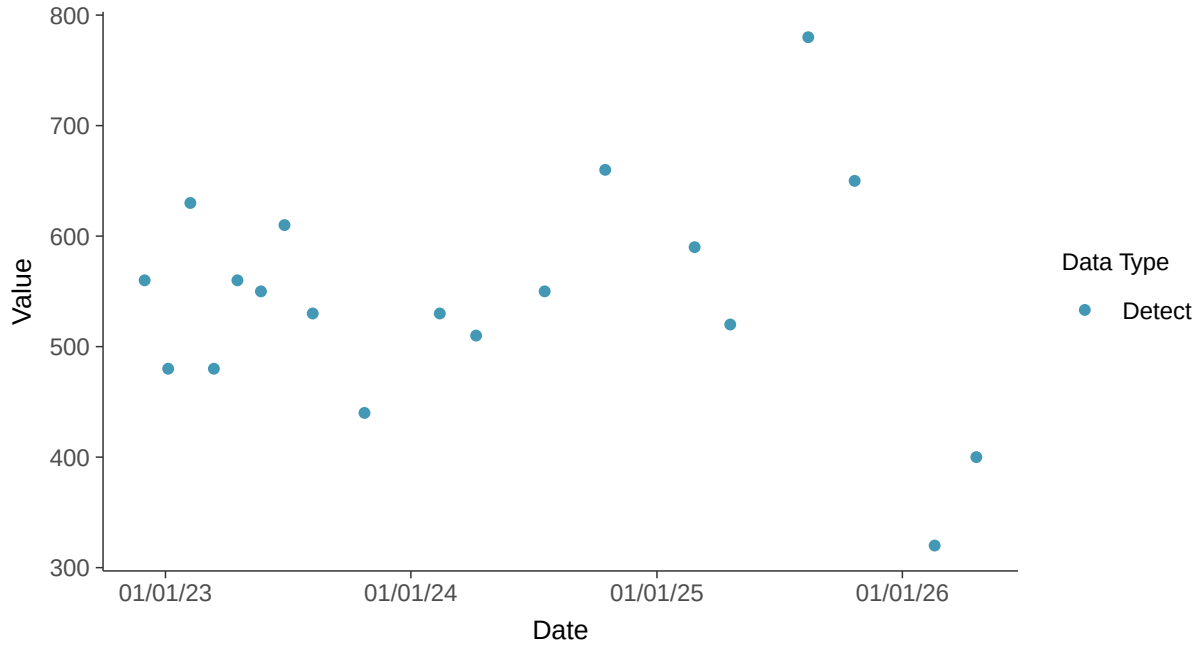


Appendix III: Total Dissolved Solids, MW-08

ID: 18_1_3_126

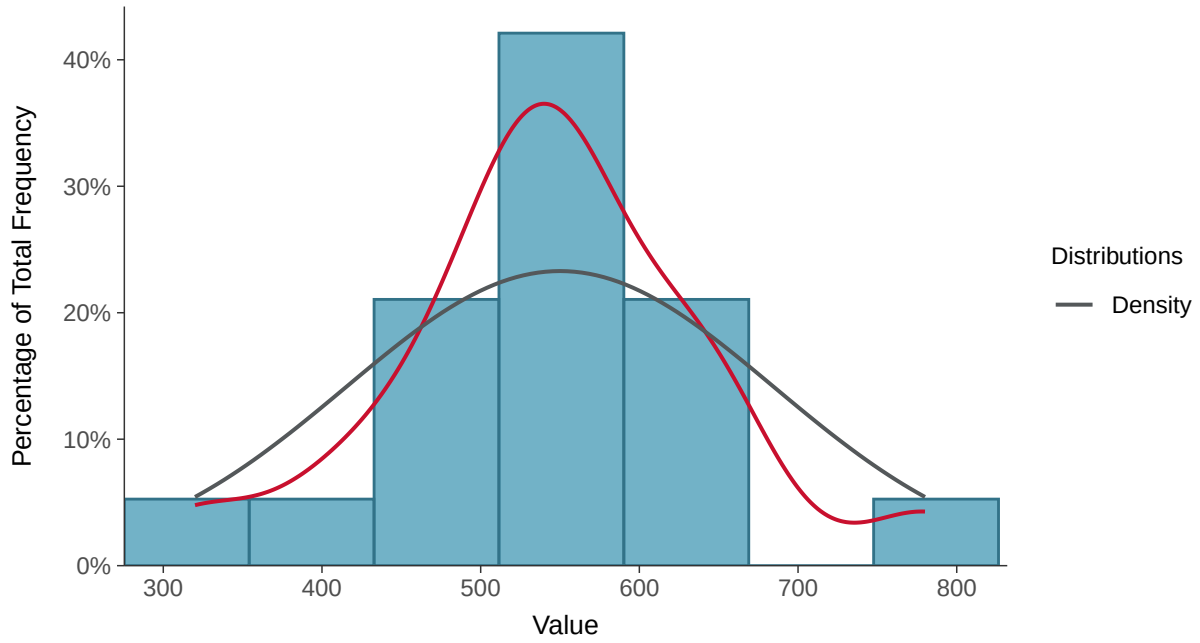
Scatter Plot

Total Dissolved Solids, MW-08 (mg/L)



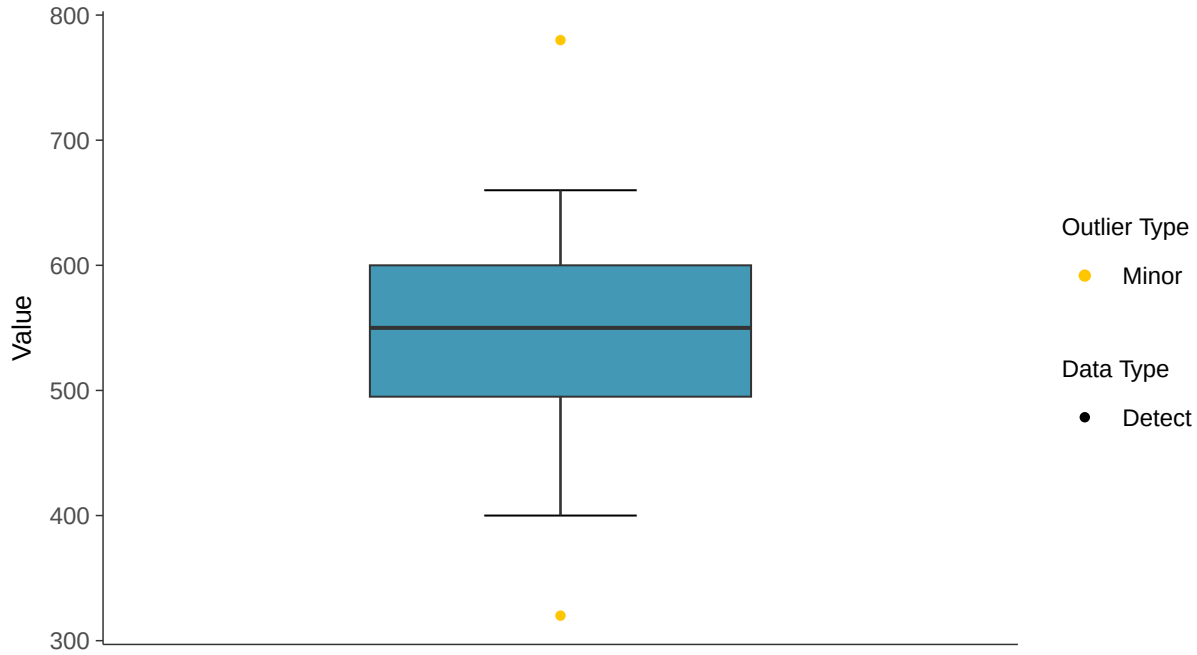
Histogram

Total Dissolved Solids, MW-08 (mg/L)



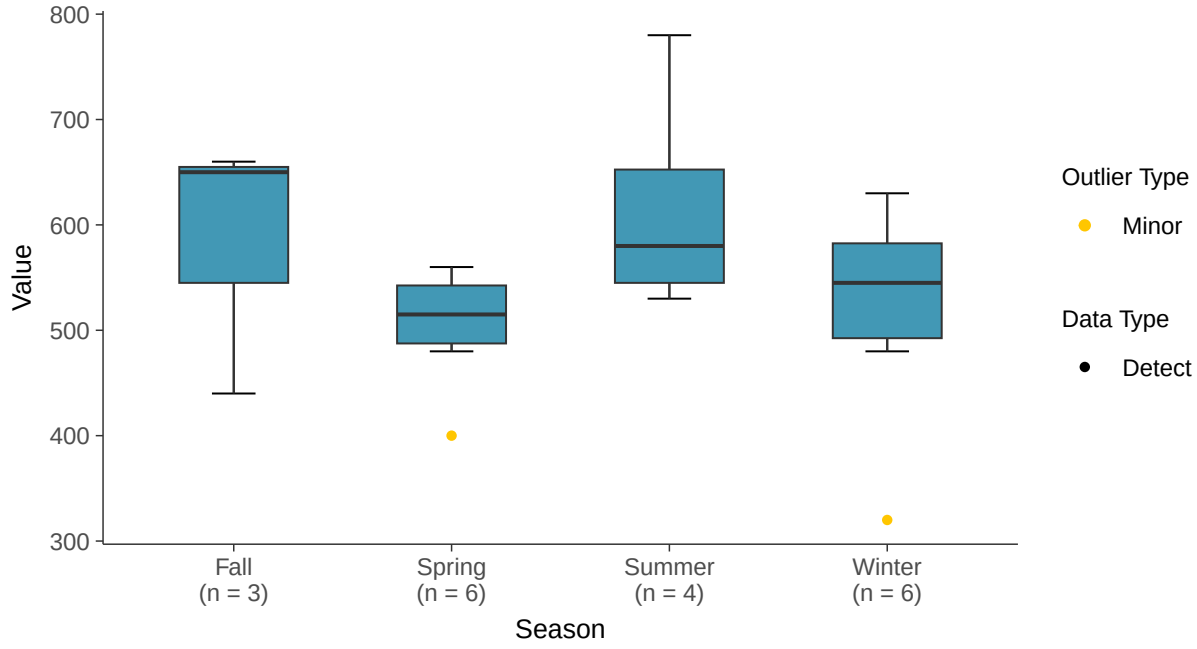
Boxplot

Total Dissolved Solids, MW-08 (mg/L)



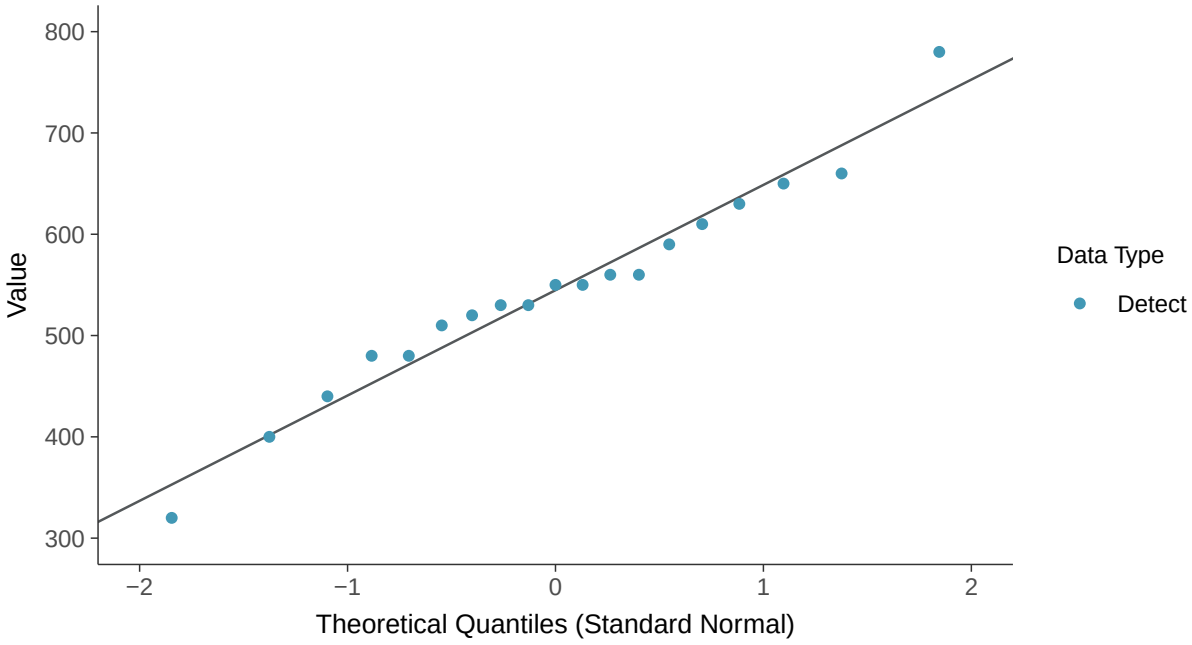
Boxplot by Season

Total Dissolved Solids, MW-08 (mg/L)



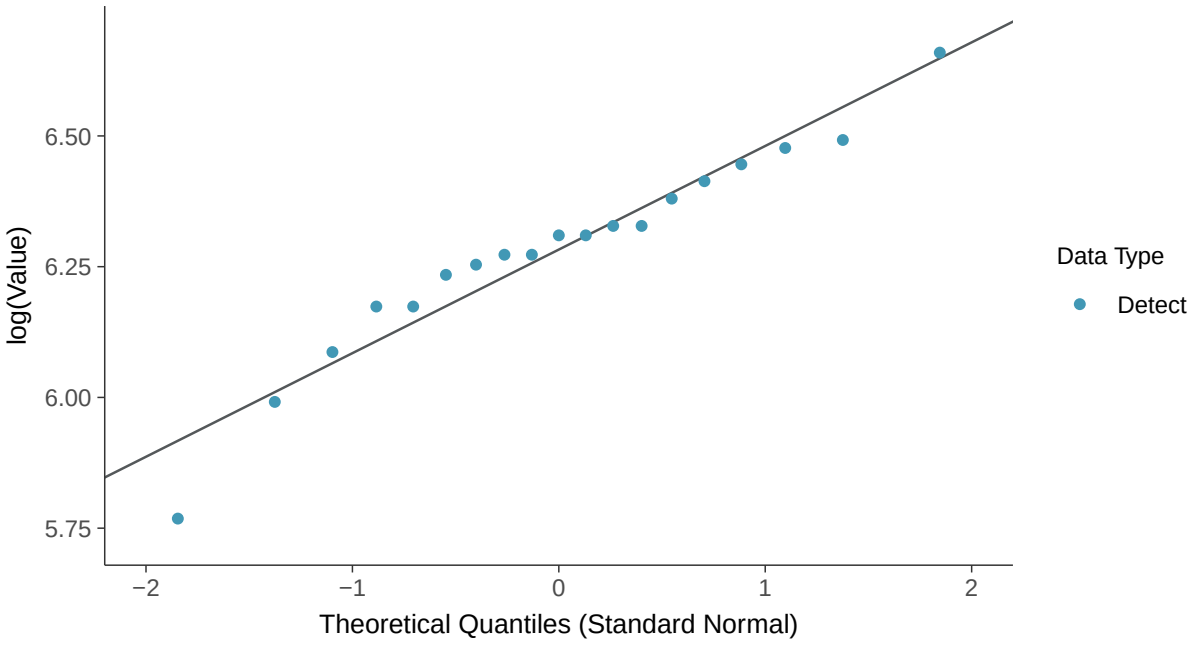
Normal Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



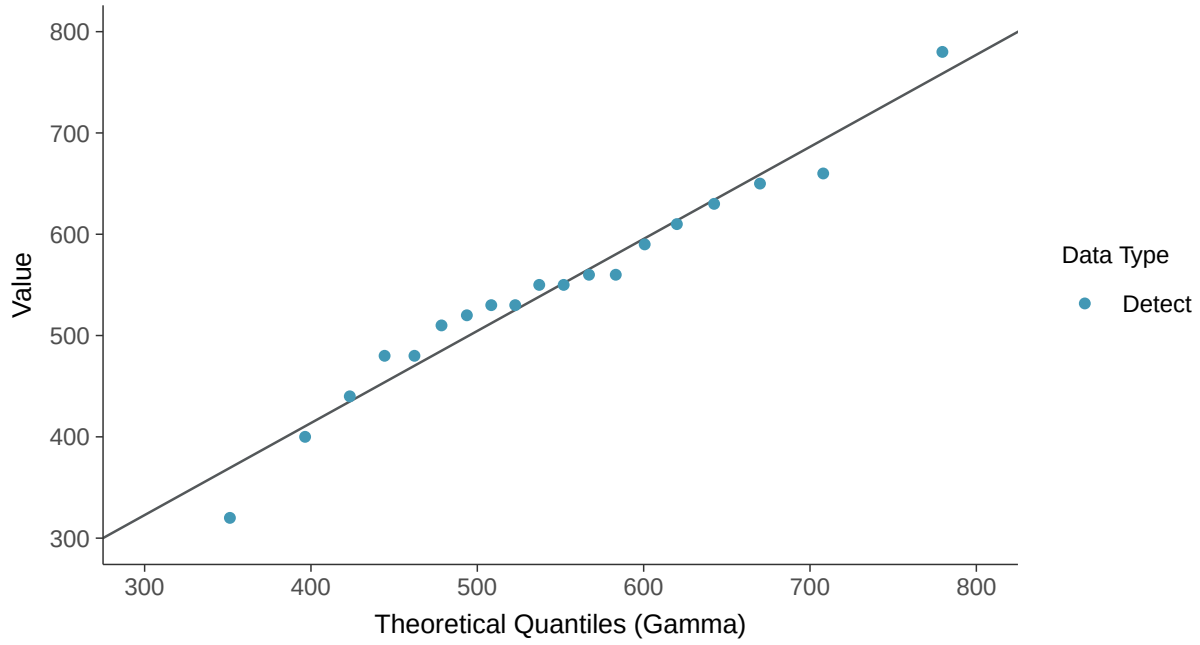
Lognormal Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



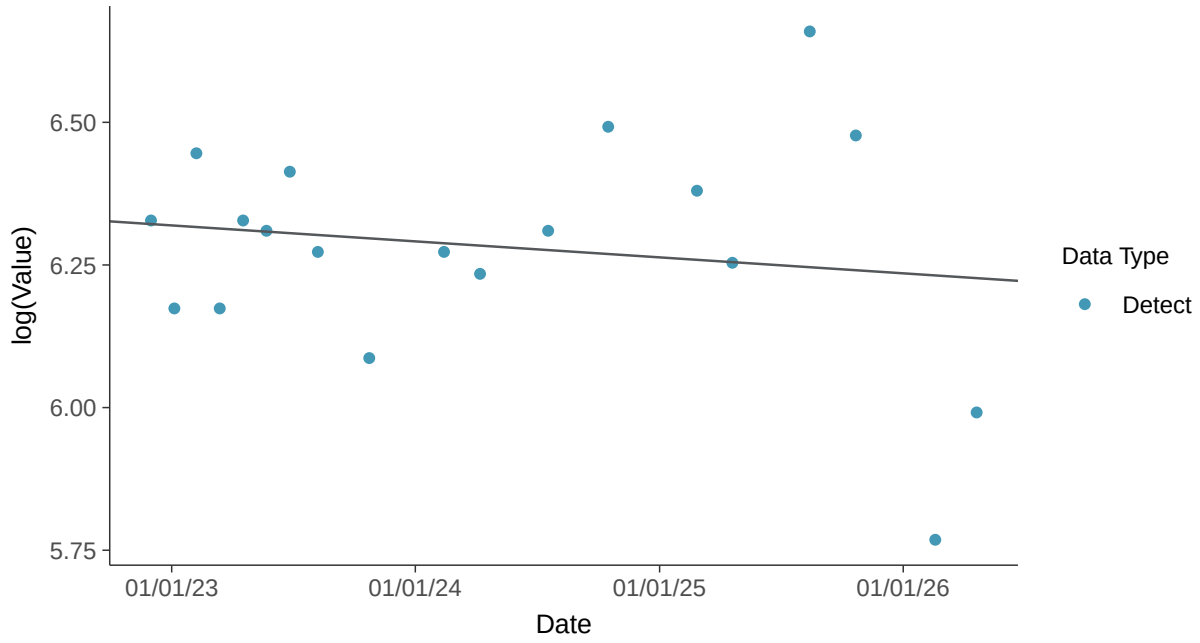
Gamma Q-Q plot

Total Dissolved Solids, MW-08 (mg/L)



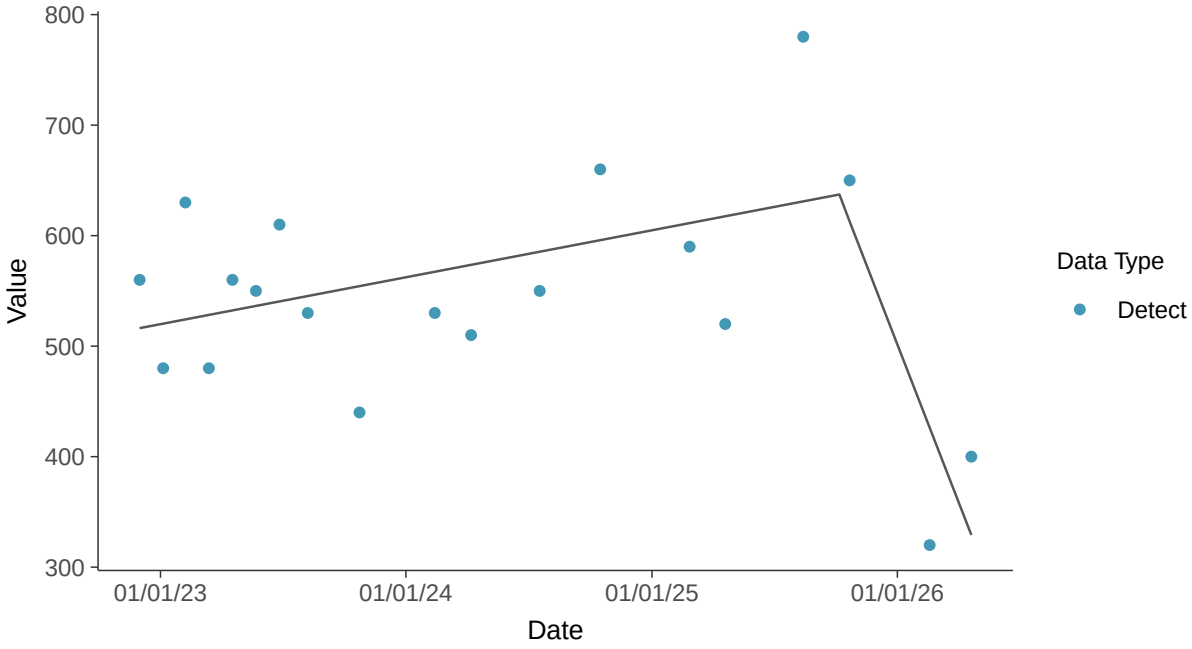
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-08 (mg/L)



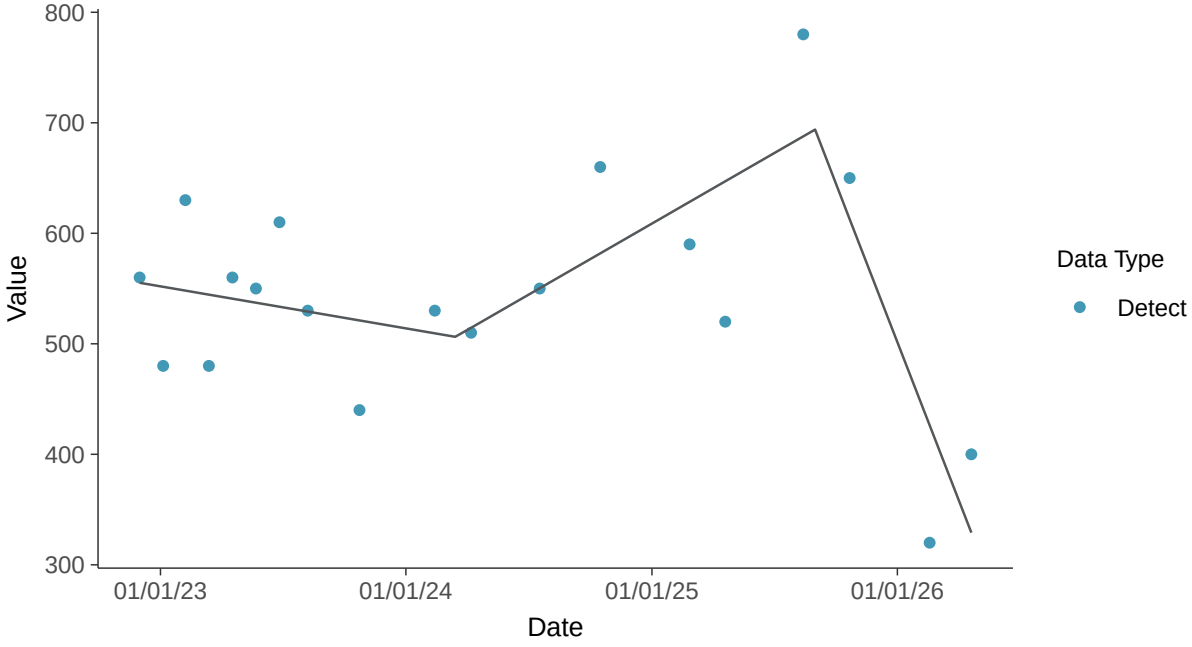
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-08 (mg/L)



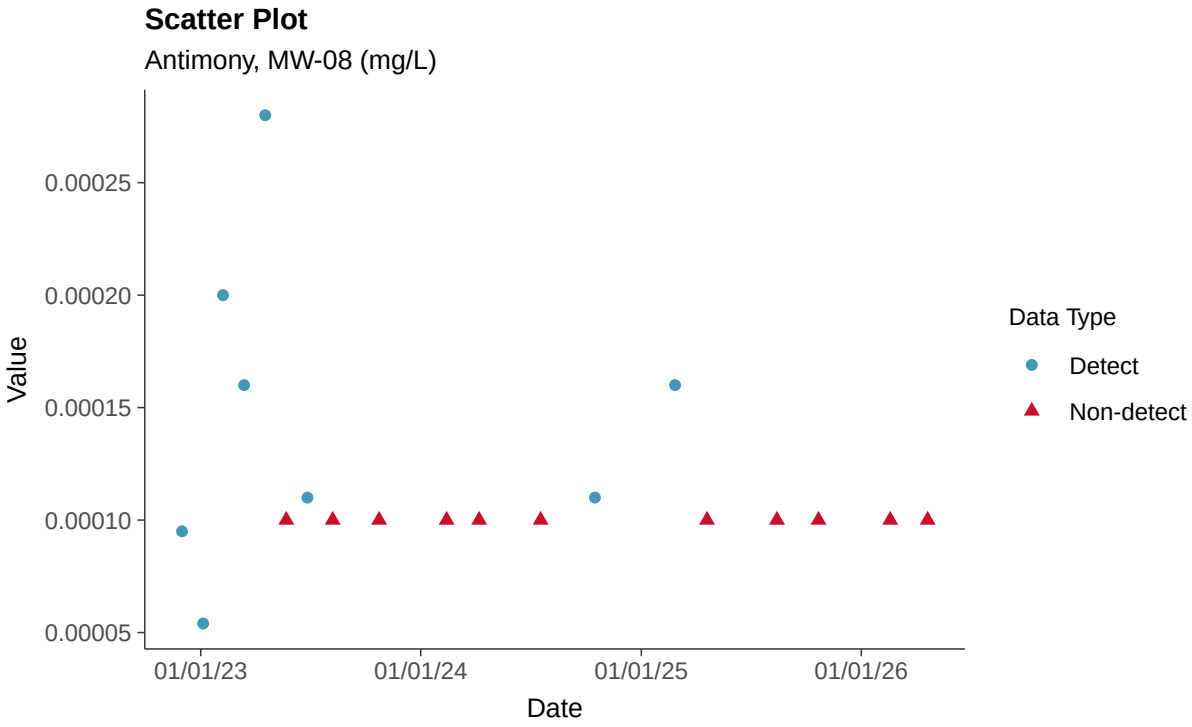
Trend Regression: Piecewise Linear-Linear-Linear

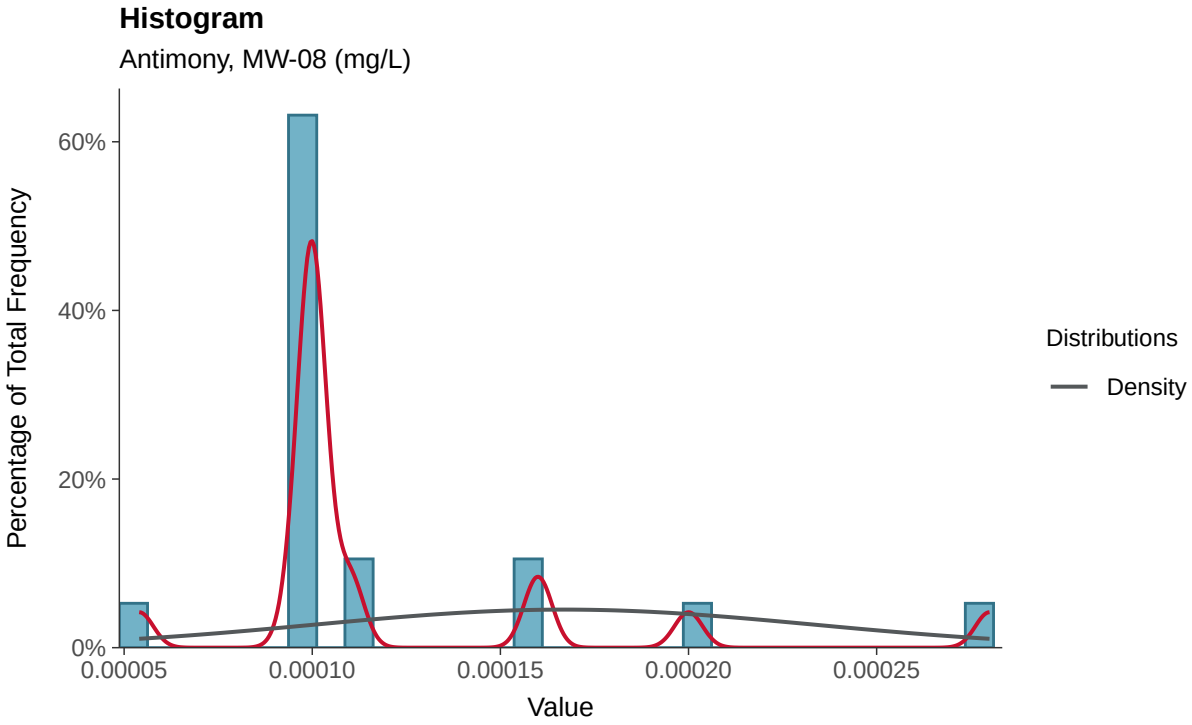
Total Dissolved Solids, MW-08 (mg/L)



Appendix IV: Antimony, MW-08

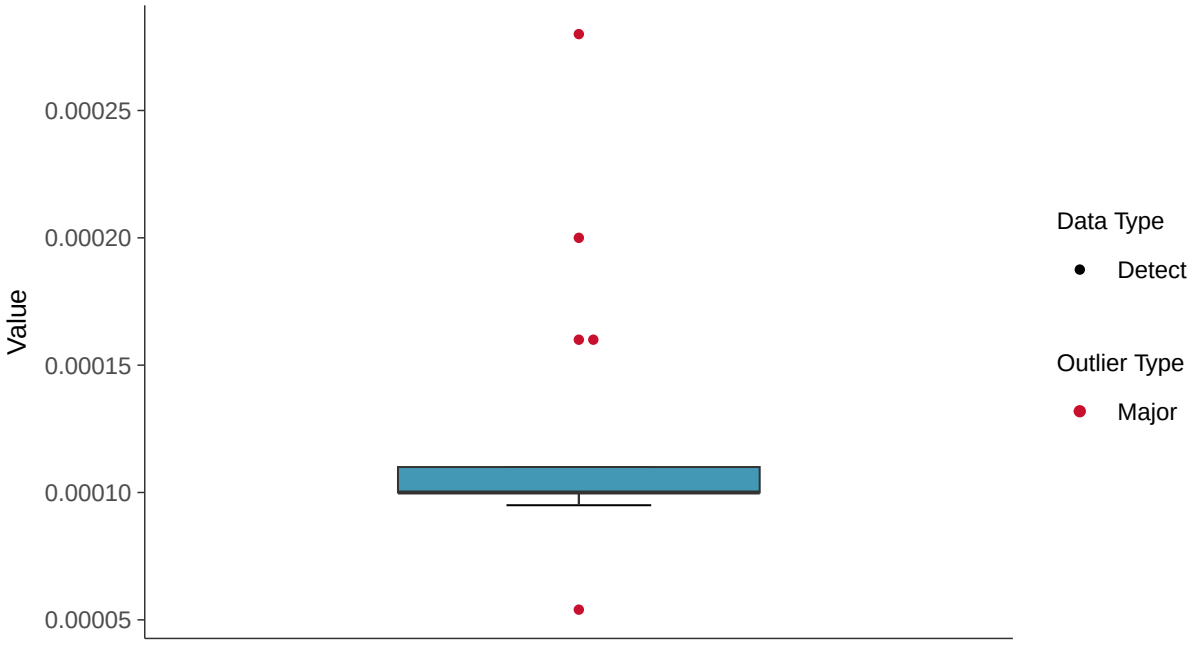
ID: 18_1_4_101





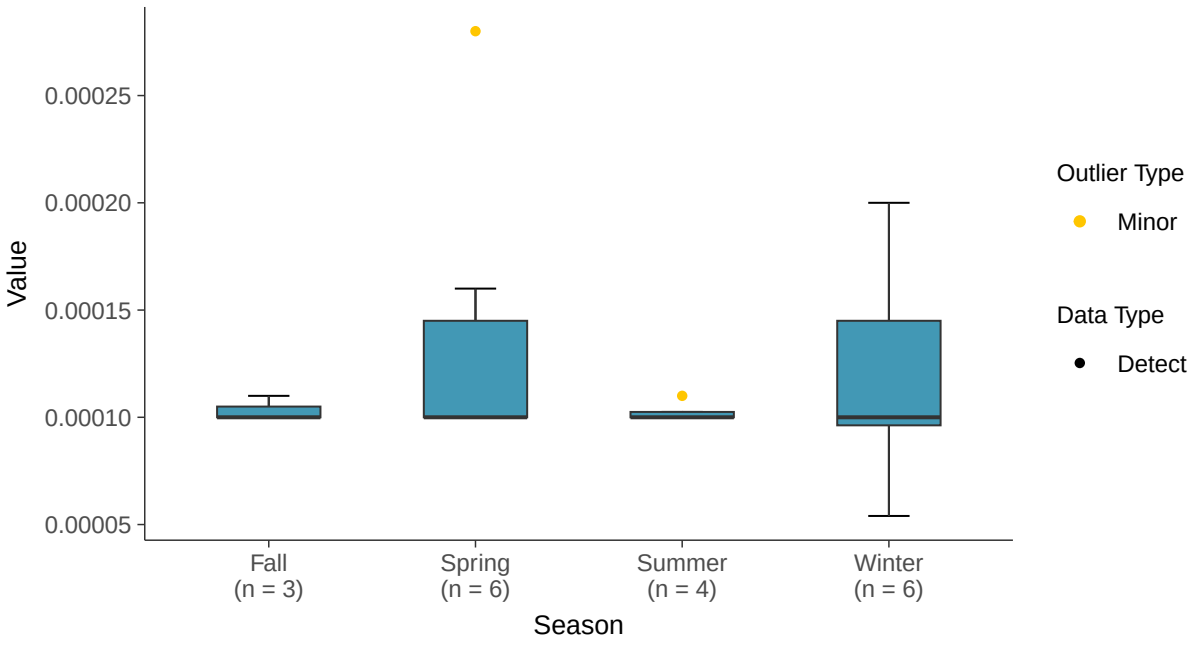
Boxplot

Antimony, MW-08 (mg/L)



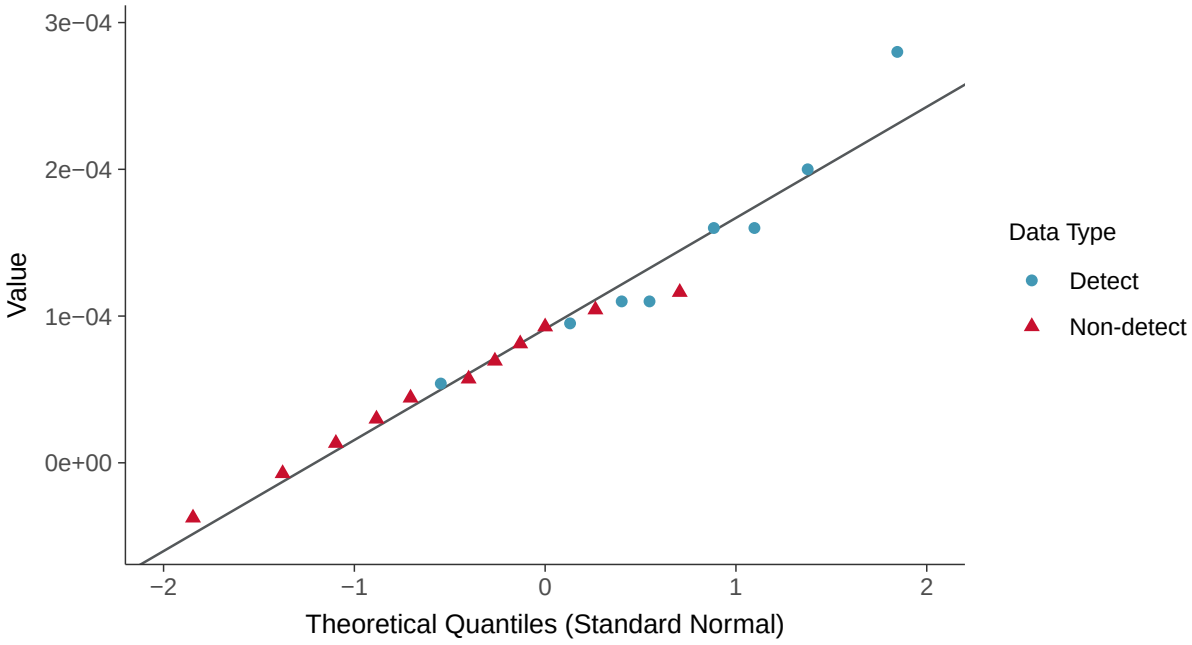
Boxplot by Season

Antimony, MW-08 (mg/L)



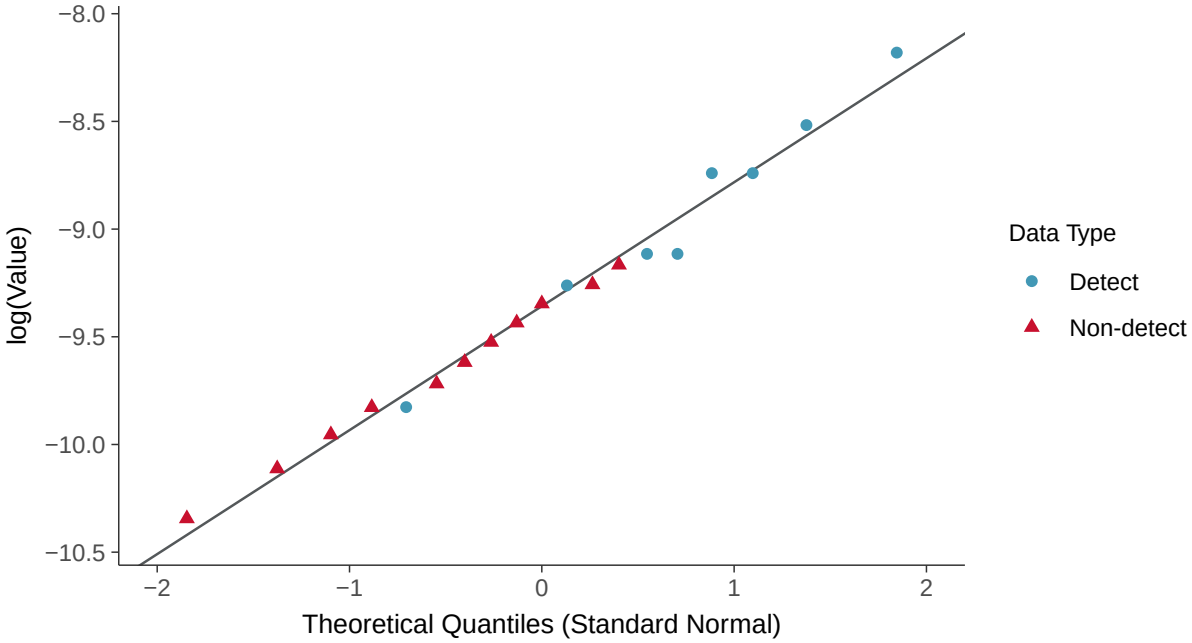
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-08 (mg/L)



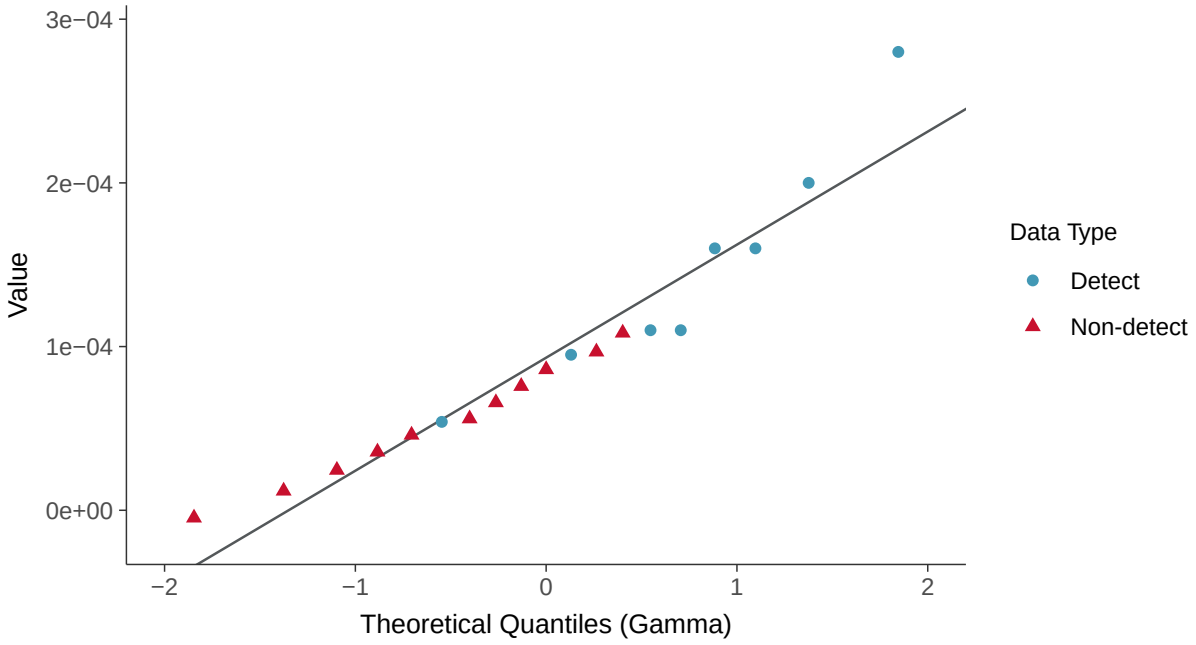
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-08 (mg/L)



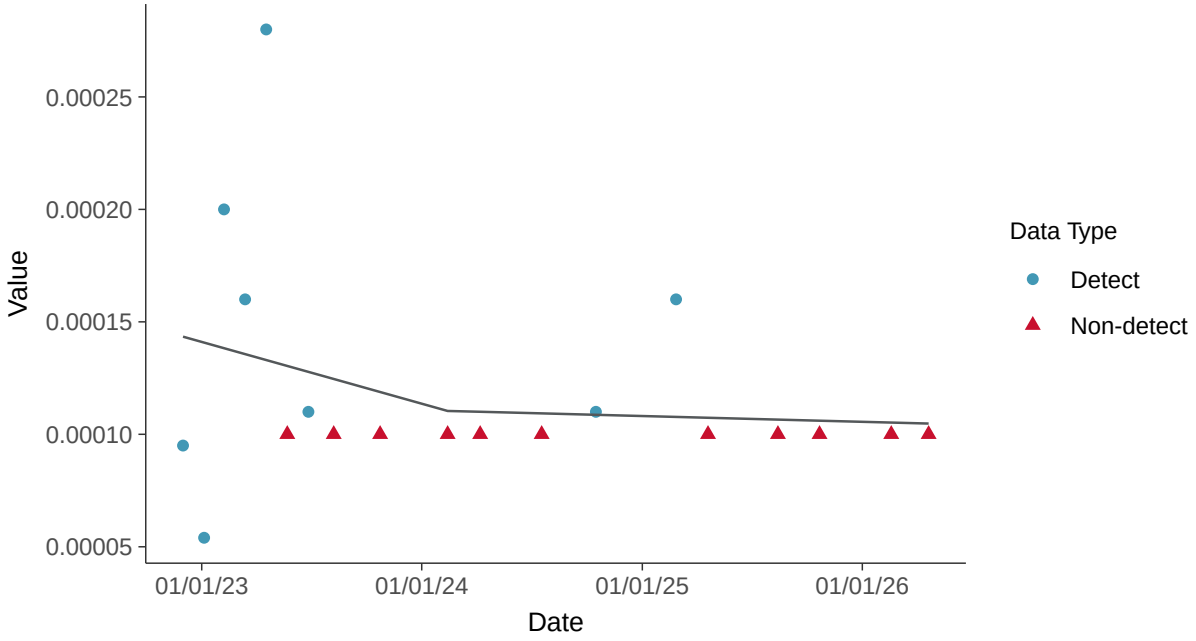
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-08 (mg/L)



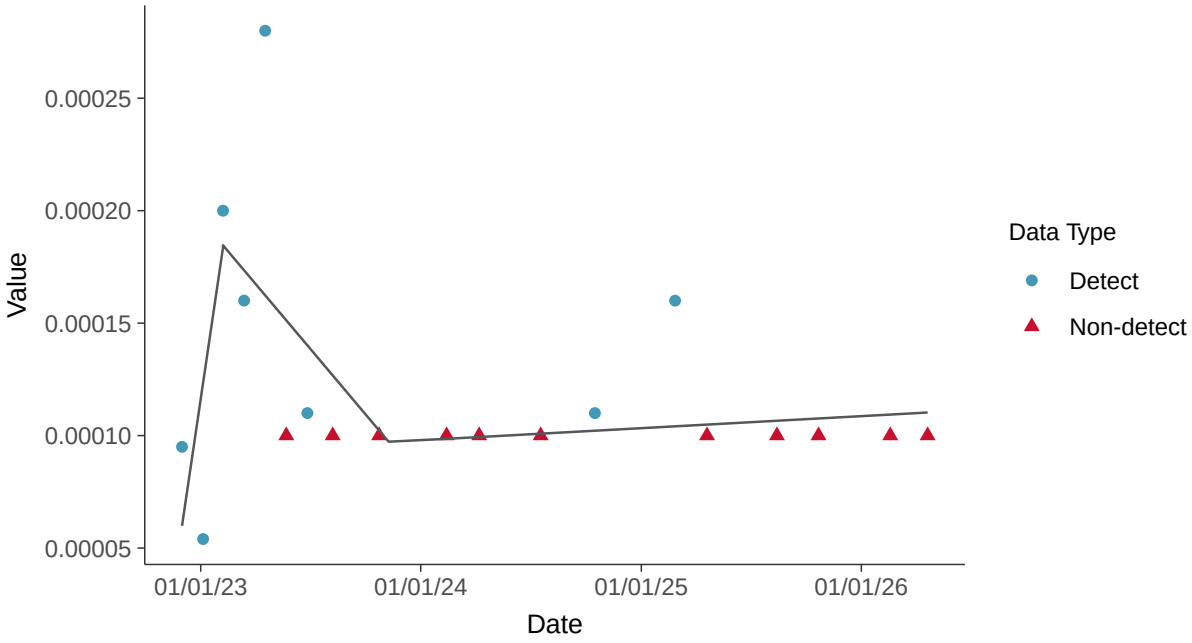
Trend Regression: Piecewise Linear-Linear

Antimony, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-08 (mg/L)

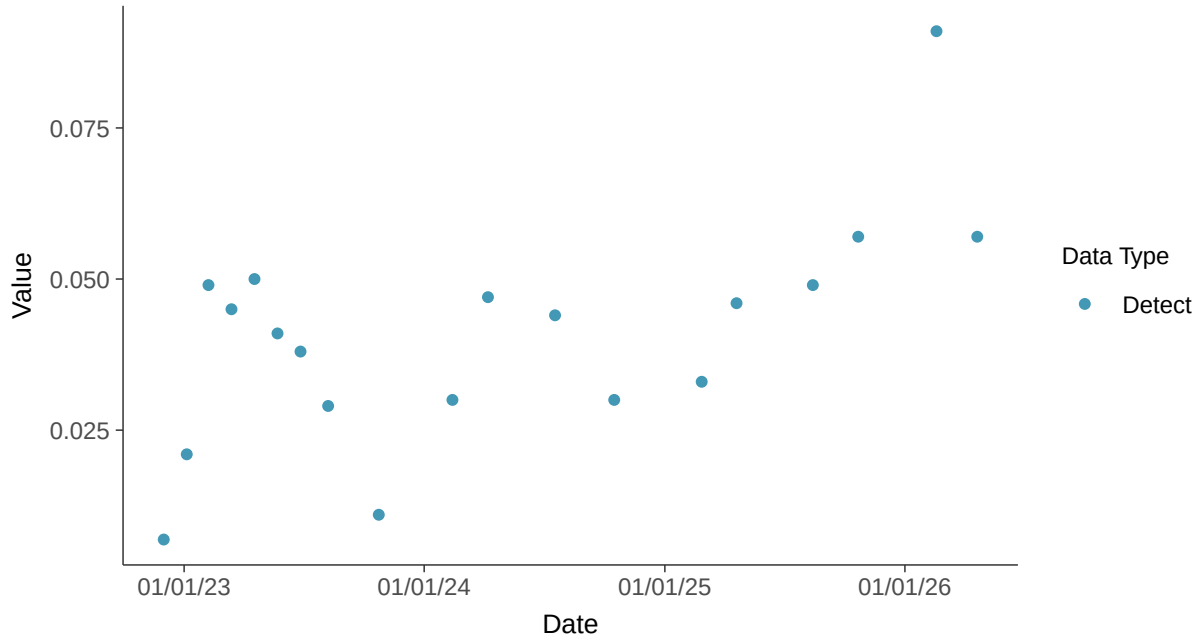


Appendix IV: Arsenic, MW-08

ID: 18_1_4_102

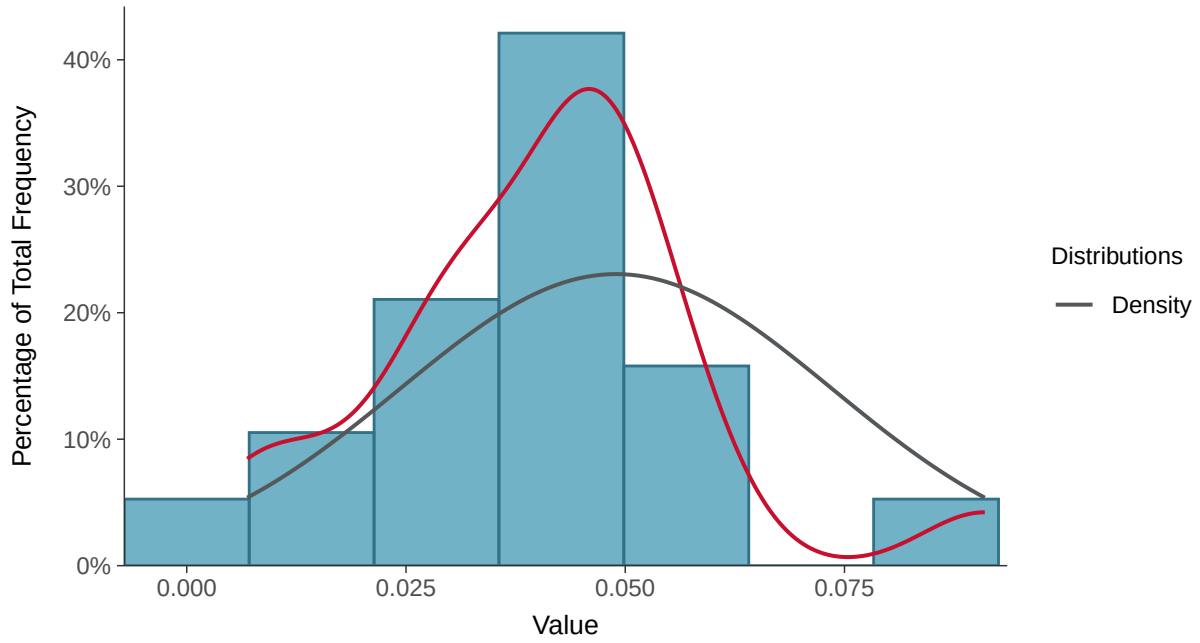
Scatter Plot

Arsenic, MW-08 (mg/L)



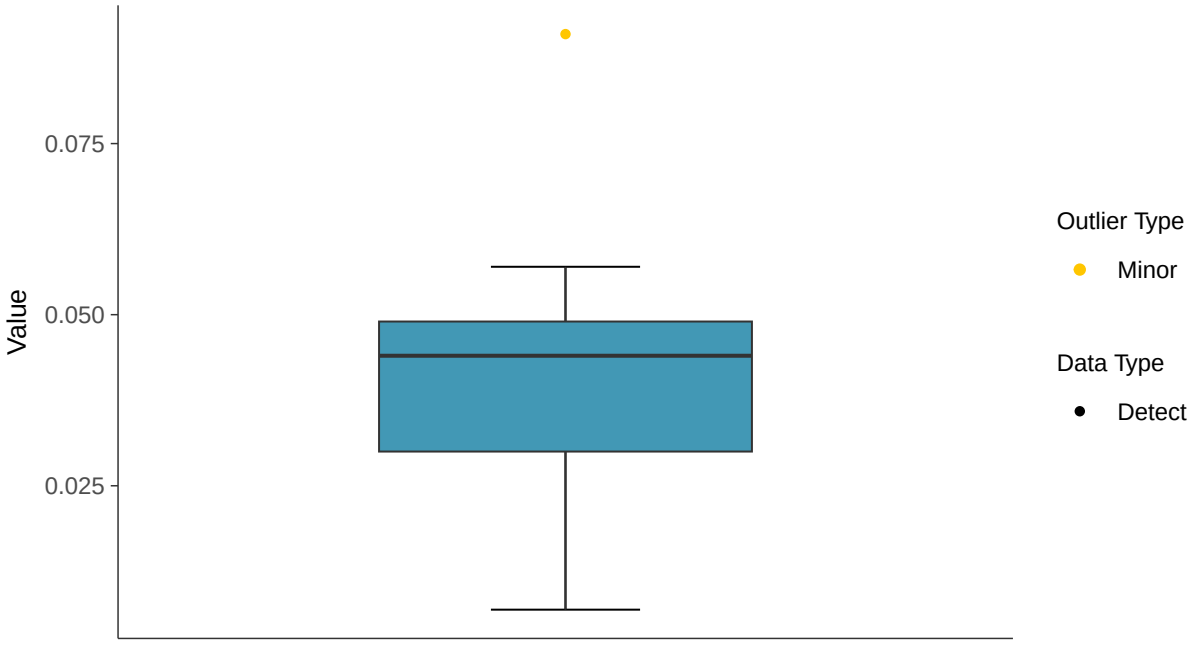
Histogram

Arsenic, MW-08 (mg/L)



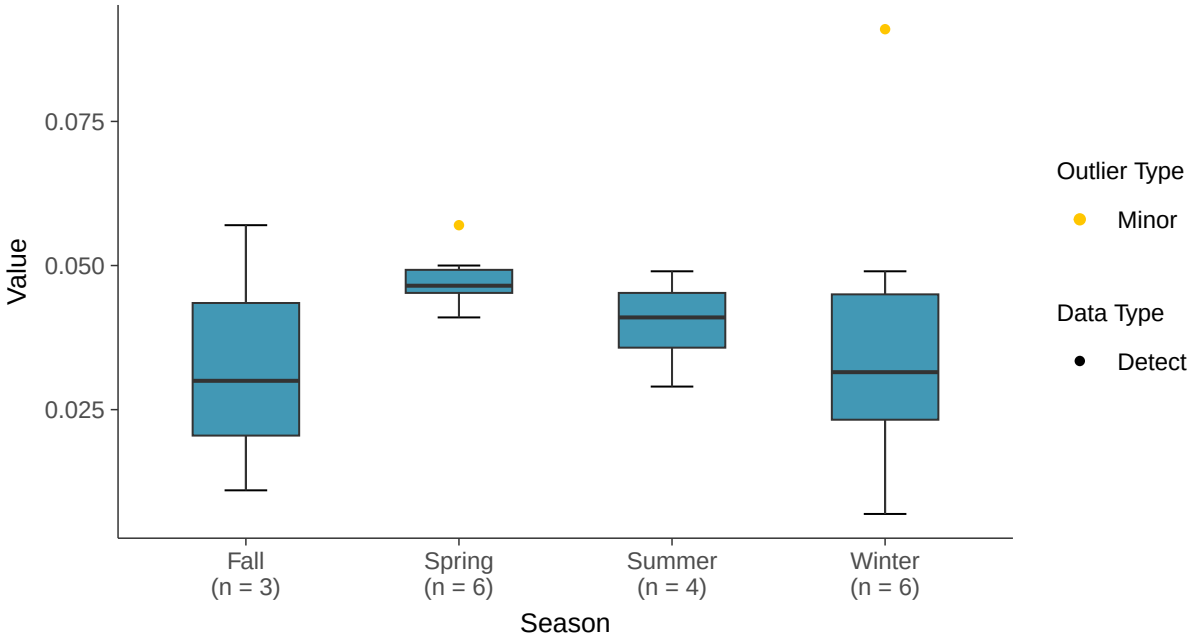
Boxplot

Arsenic, MW-08 (mg/L)



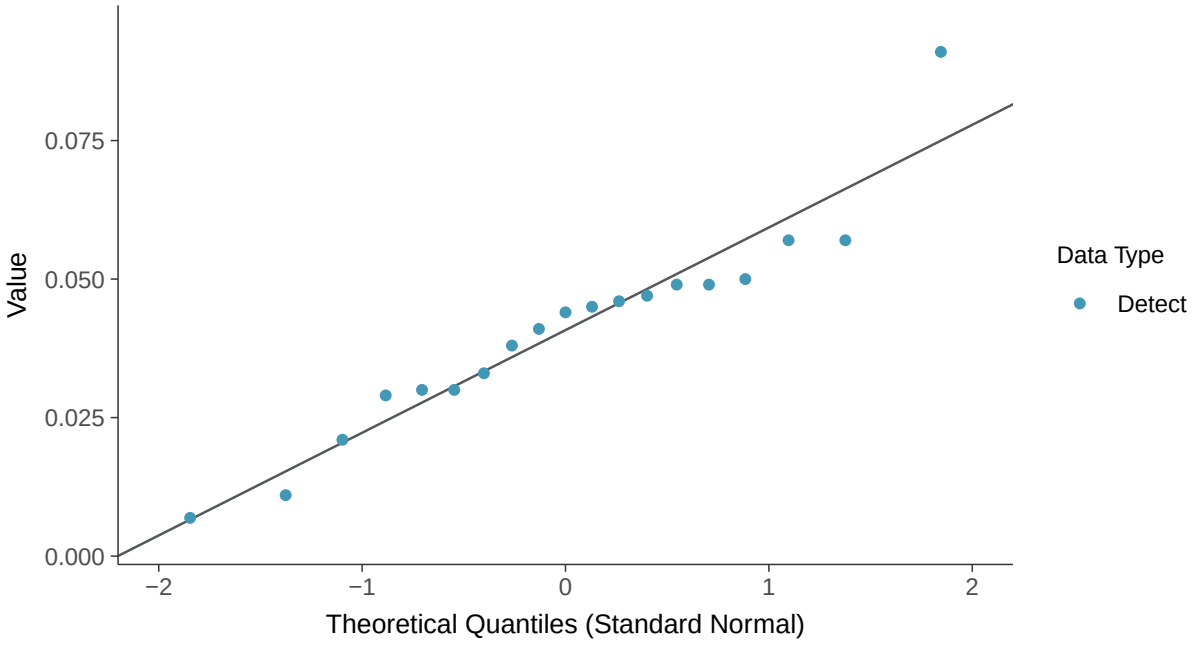
Boxplot by Season

Arsenic, MW-08 (mg/L)



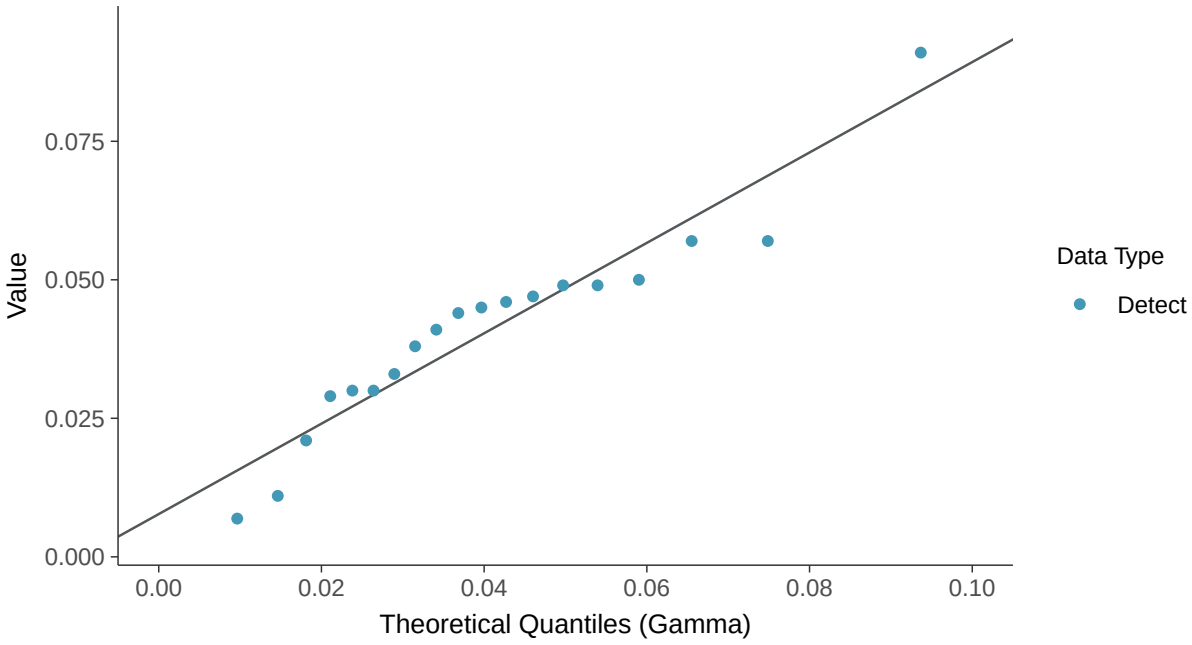
Normal Q-Q plot

Arsenic, MW-08 (mg/L)



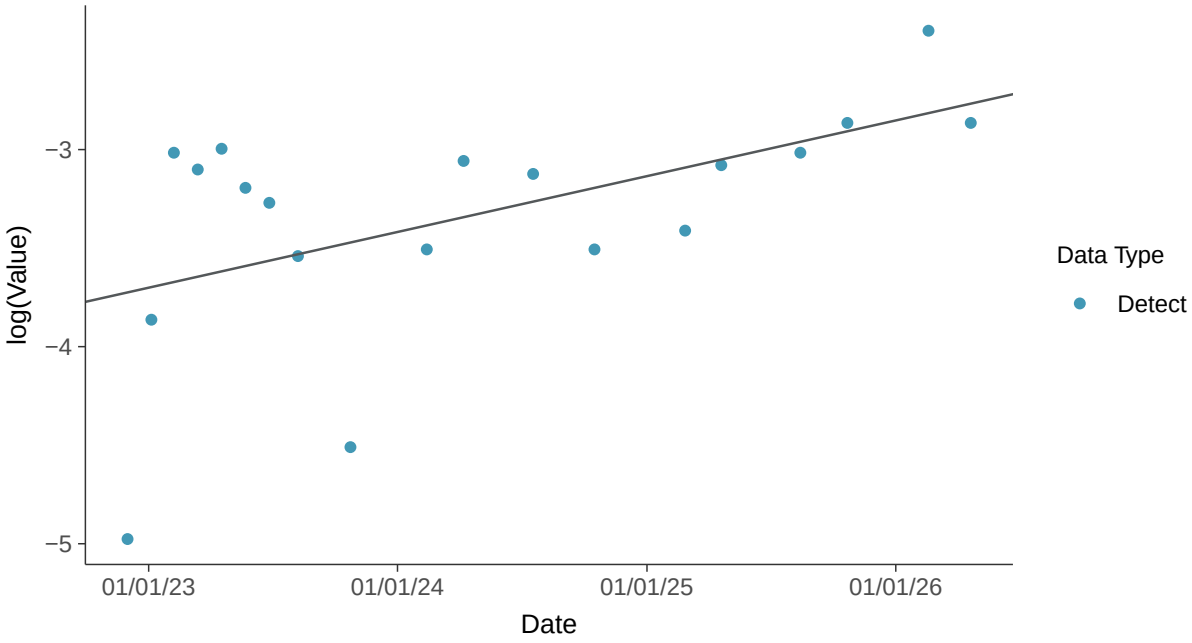
Gamma Q-Q plot

Arsenic, MW-08 (mg/L)



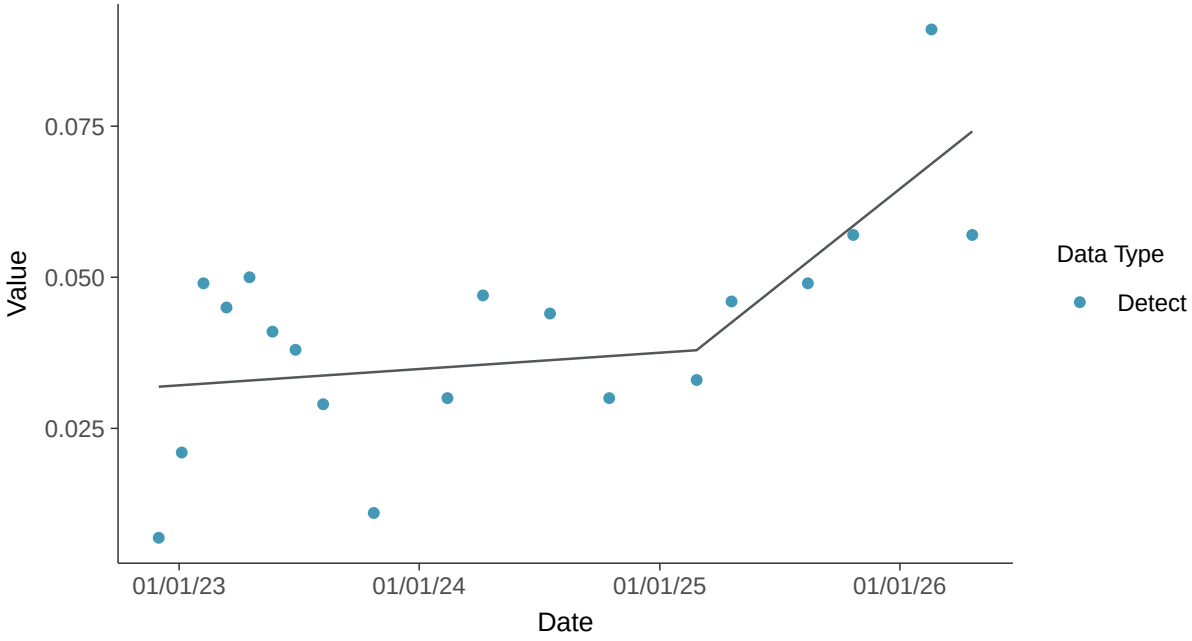
Trend Regression: Lognormal MLE

Arsenic, MW-08 (mg/L)



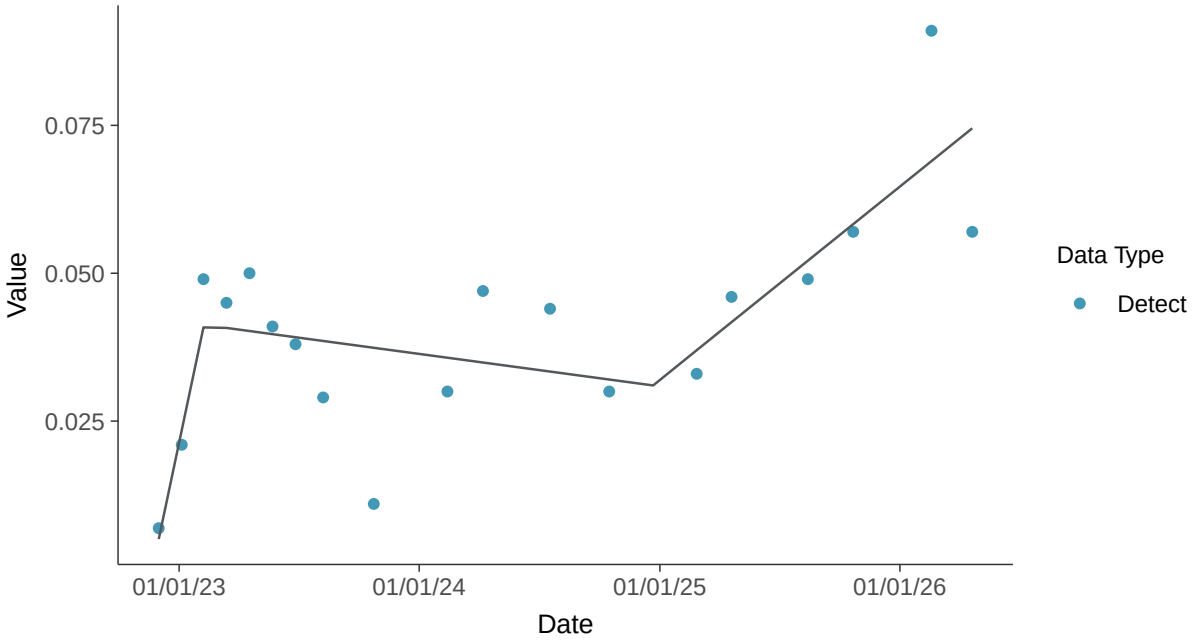
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-08 (mg/L)

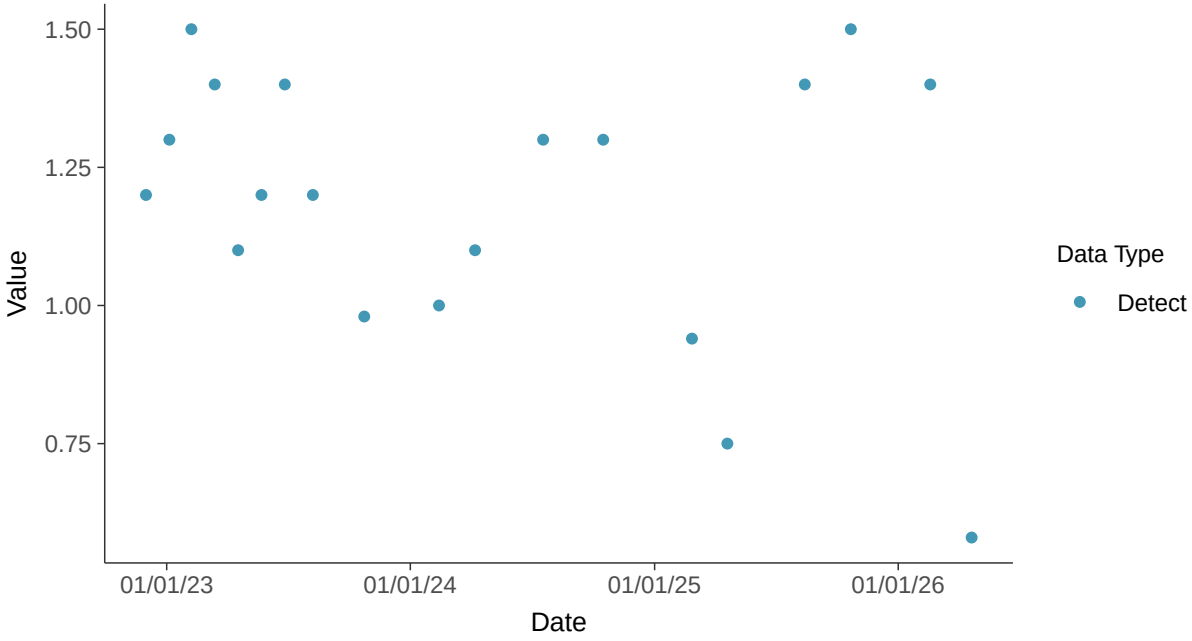


Appendix IV: Barium, MW-08

ID: 18_1_4_103

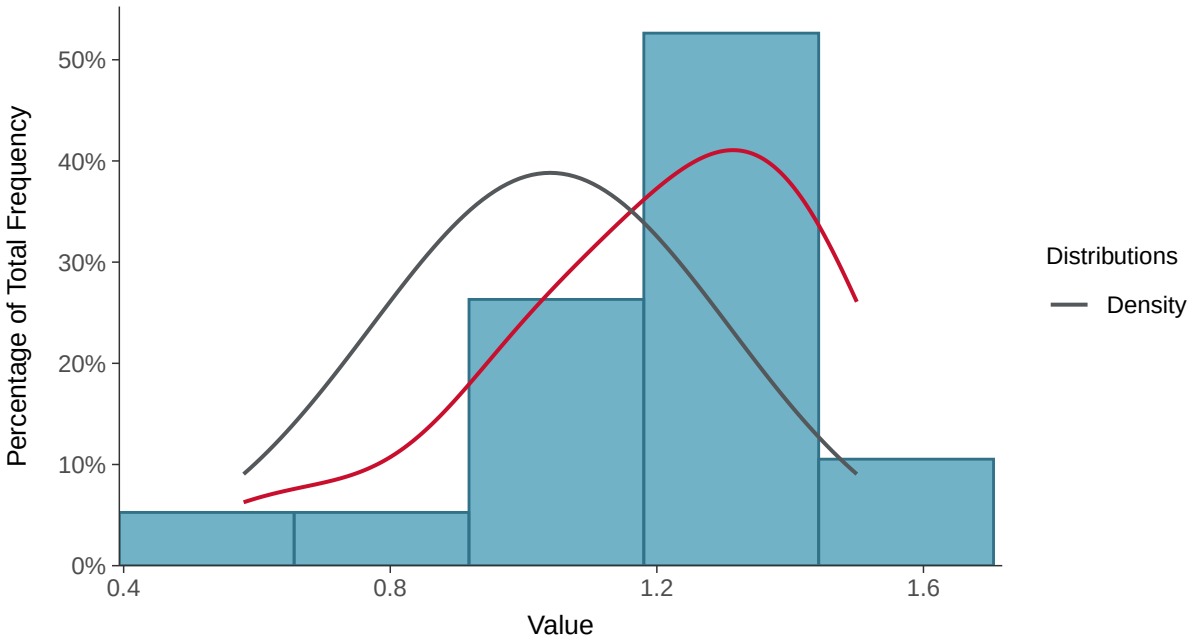
Scatter Plot

Barium, MW-08 (mg/L)



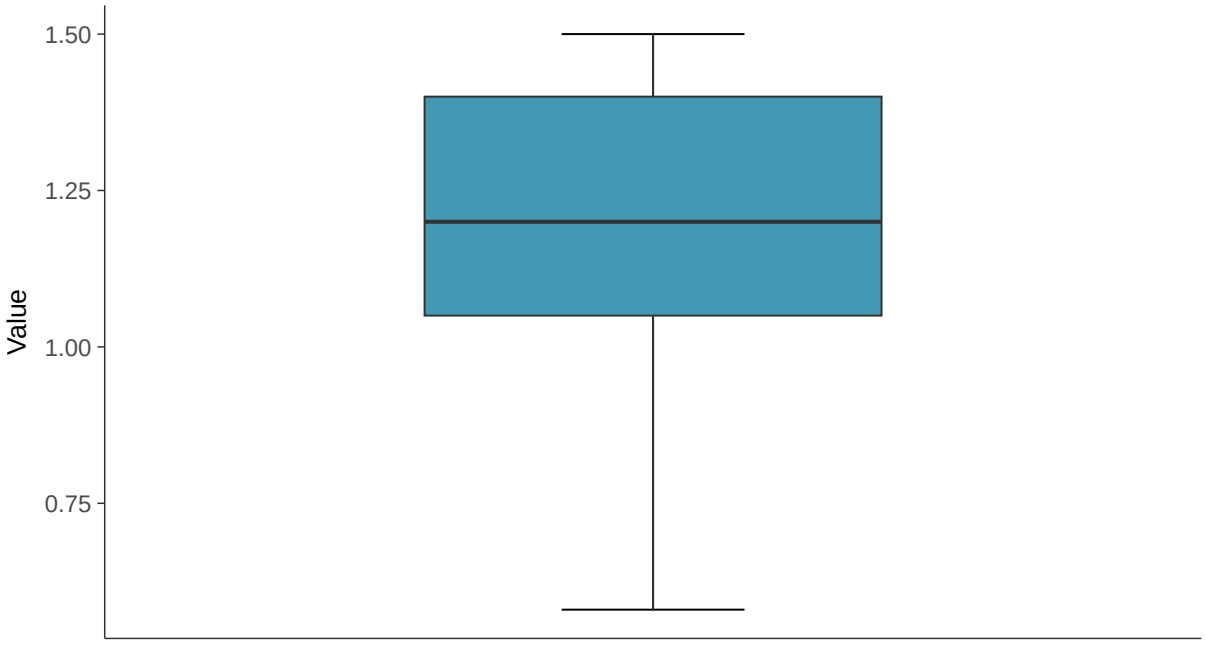
Histogram

Barium, MW-08 (mg/L)



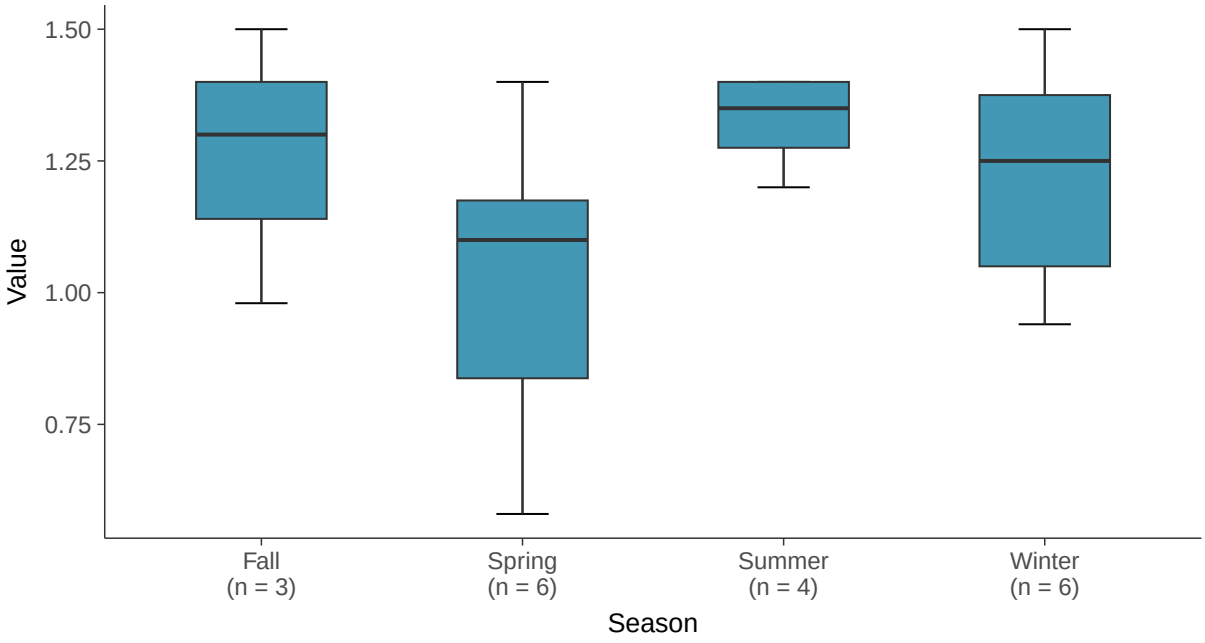
Boxplot

Barium, MW-08 (mg/L)



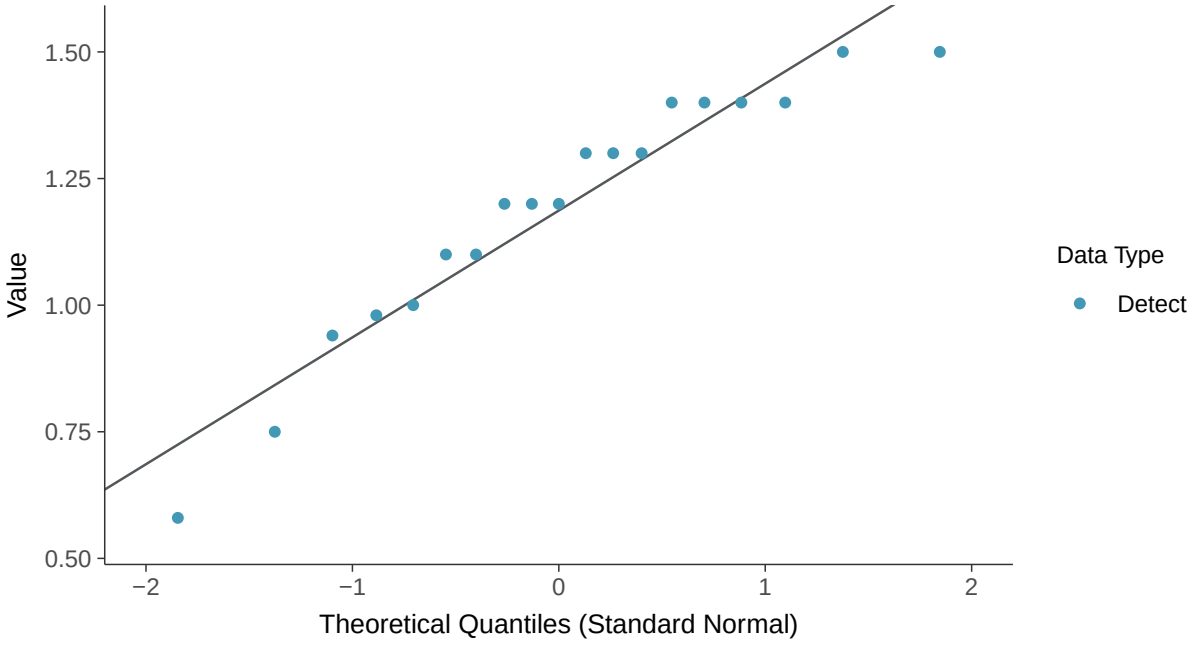
Boxplot by Season

Barium, MW-08 (mg/L)



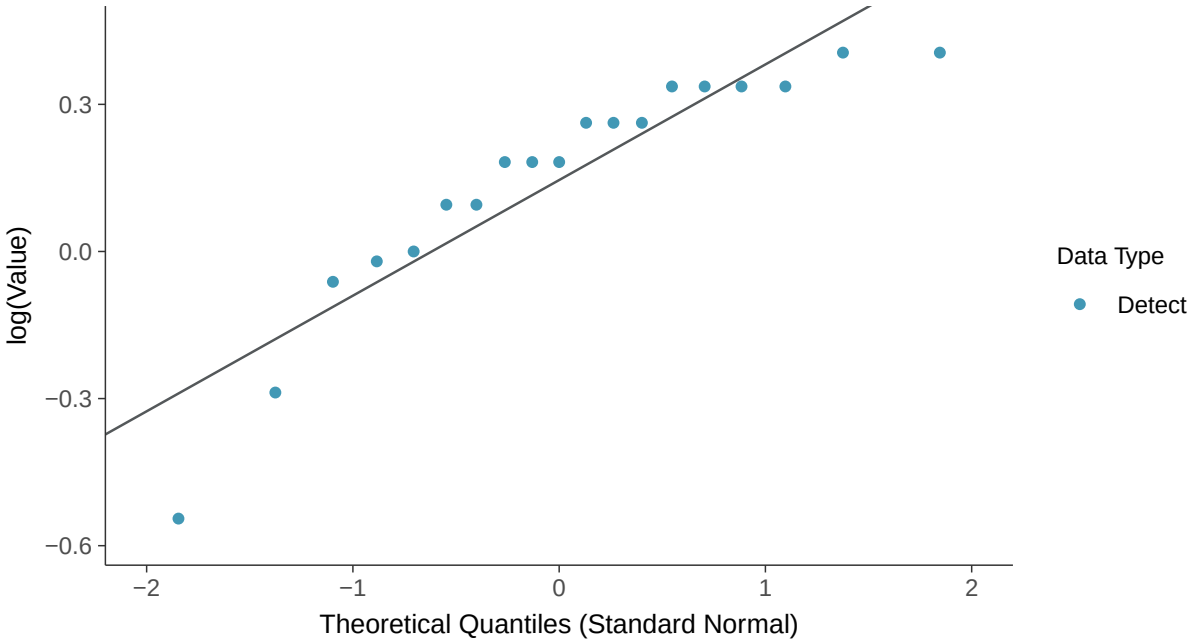
Normal Q-Q plot

Barium, MW-08 (mg/L)



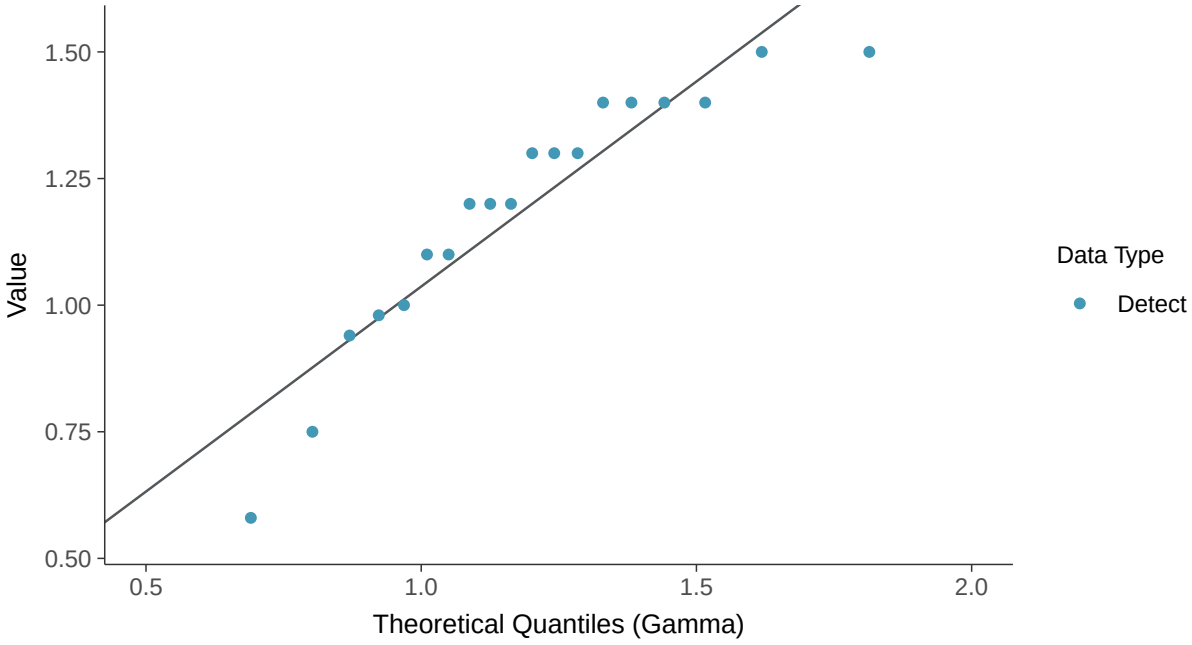
Lognormal Q-Q plot

Barium, MW-08 (mg/L)



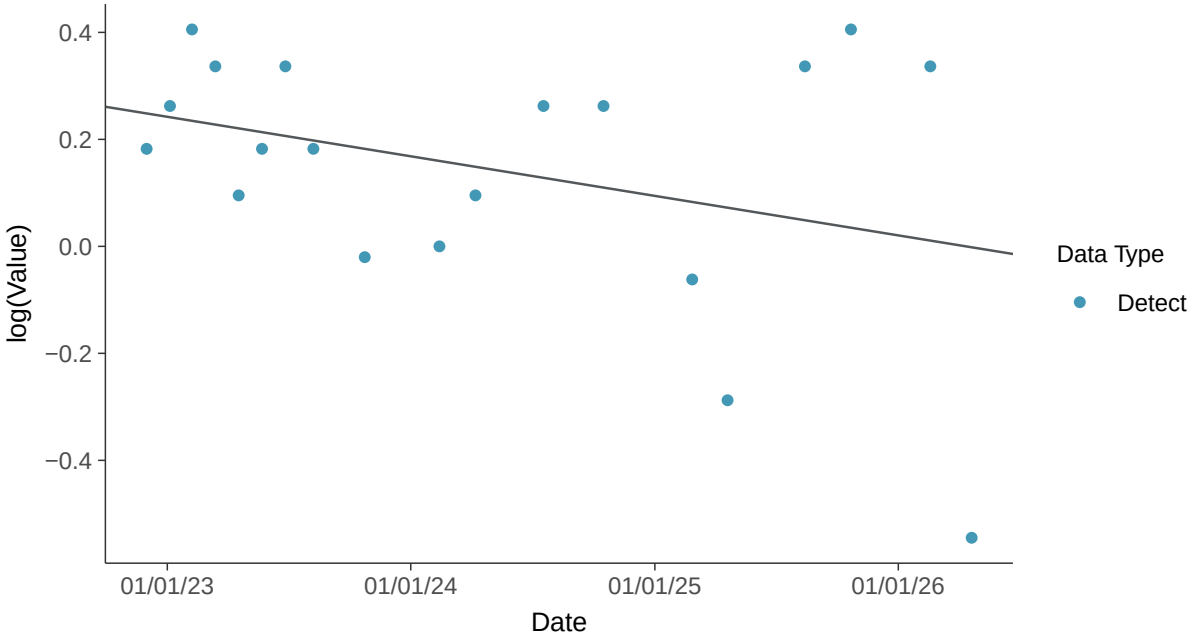
Gamma Q-Q plot

Barium, MW-08 (mg/L)



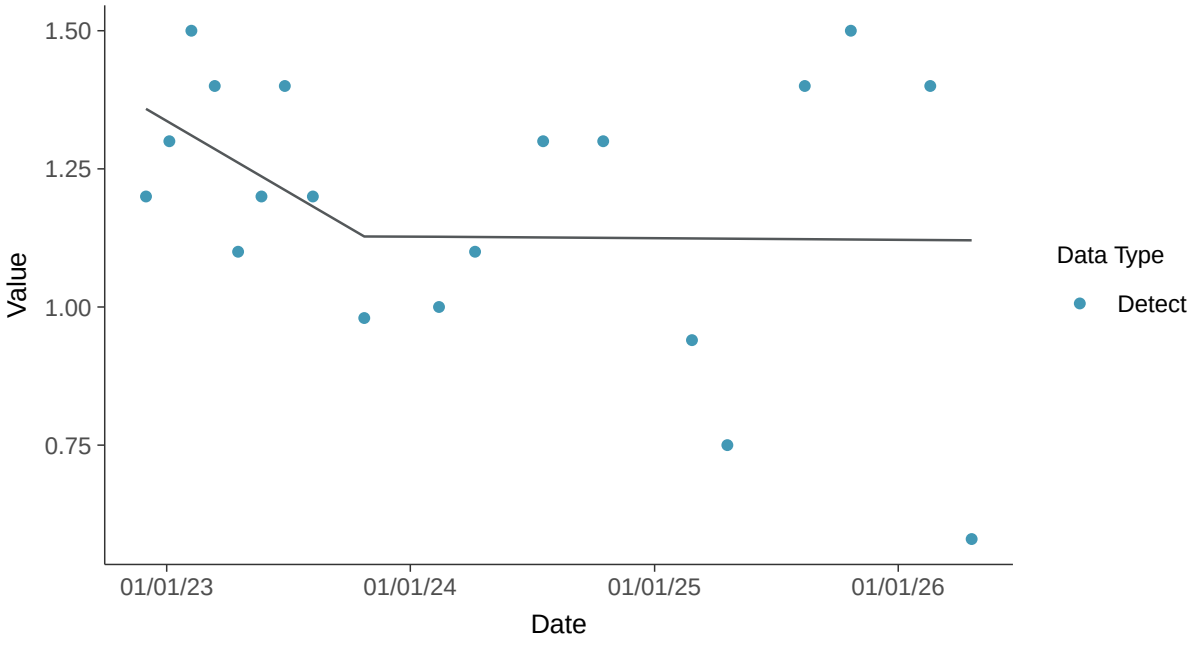
Trend Regression: Lognormal MLE

Barium, MW-08 (mg/L)



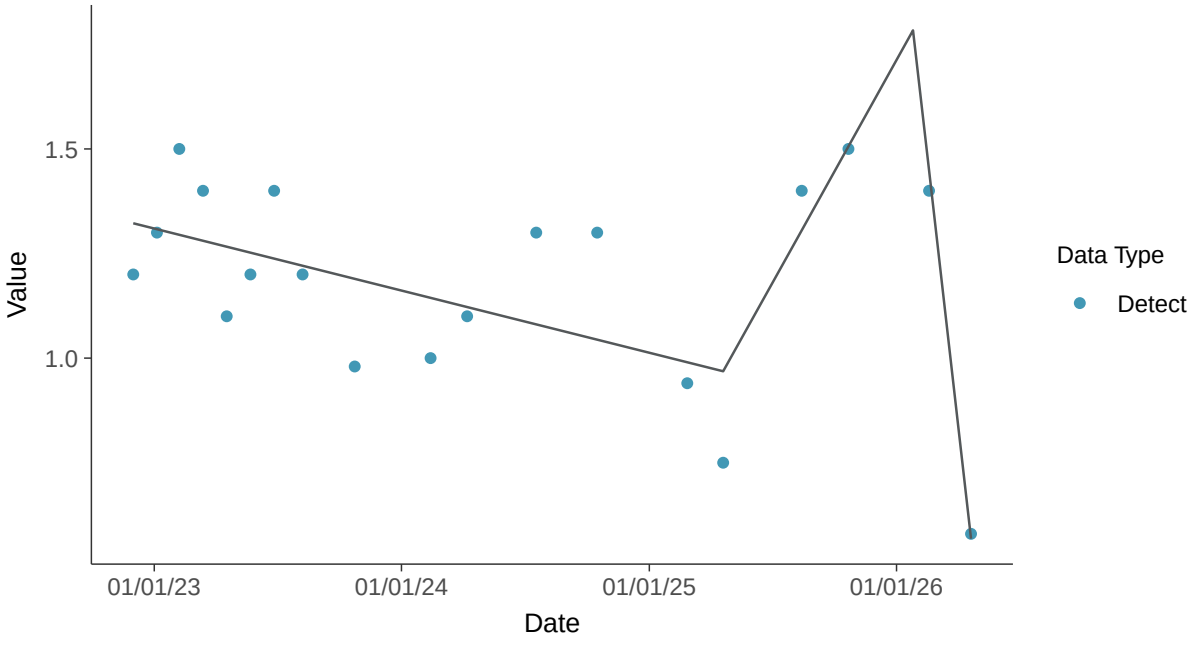
Trend Regression: Piecewise Linear-Linear

Barium, MW-08 (mg/L)



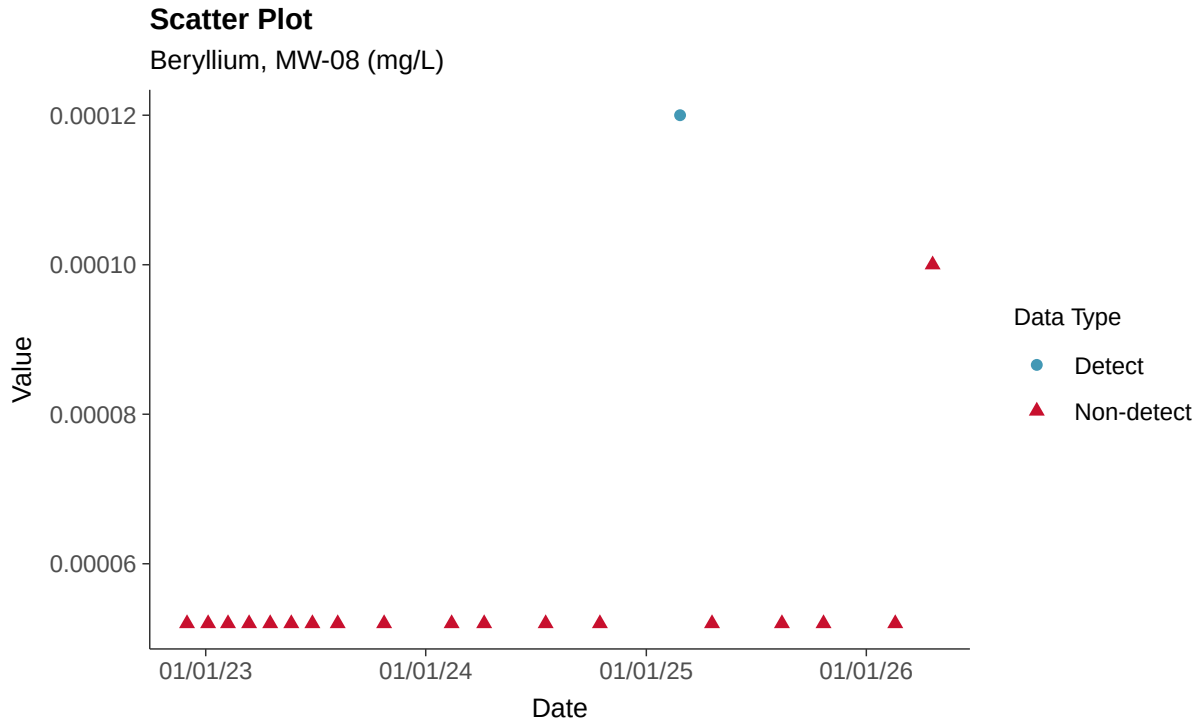
Trend Regression: Piecewise Linear-Linear-Linear

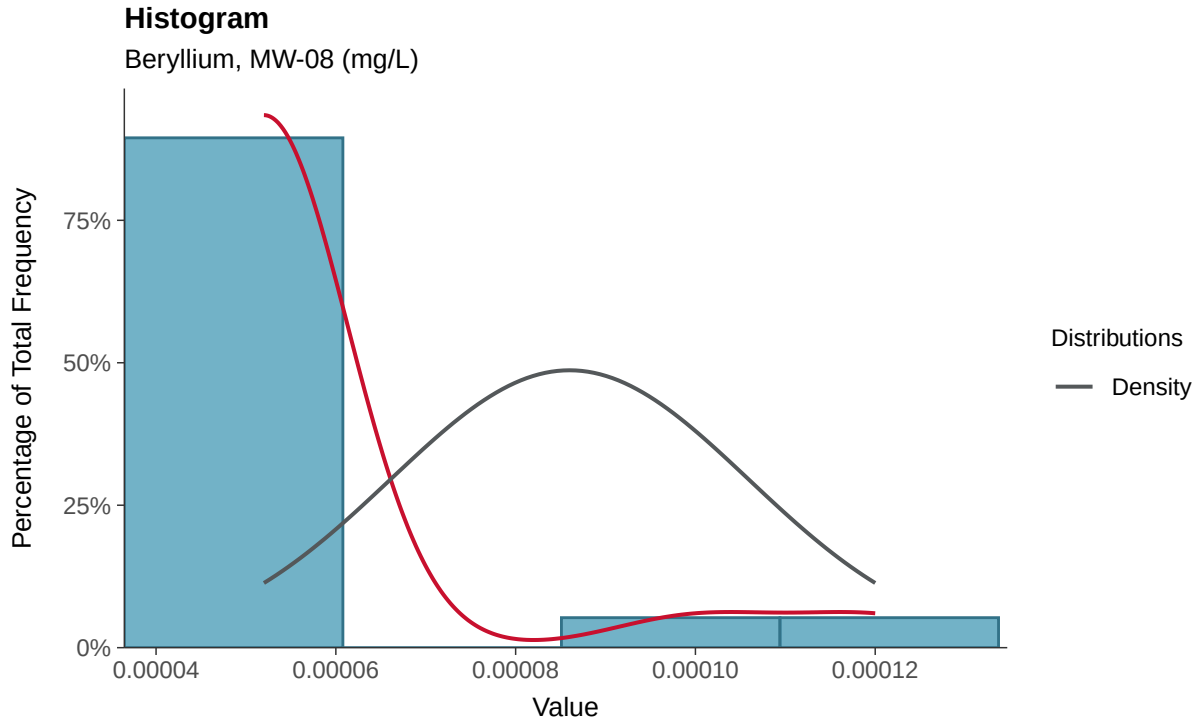
Barium, MW-08 (mg/L)



Appendix IV: Beryllium, MW-08

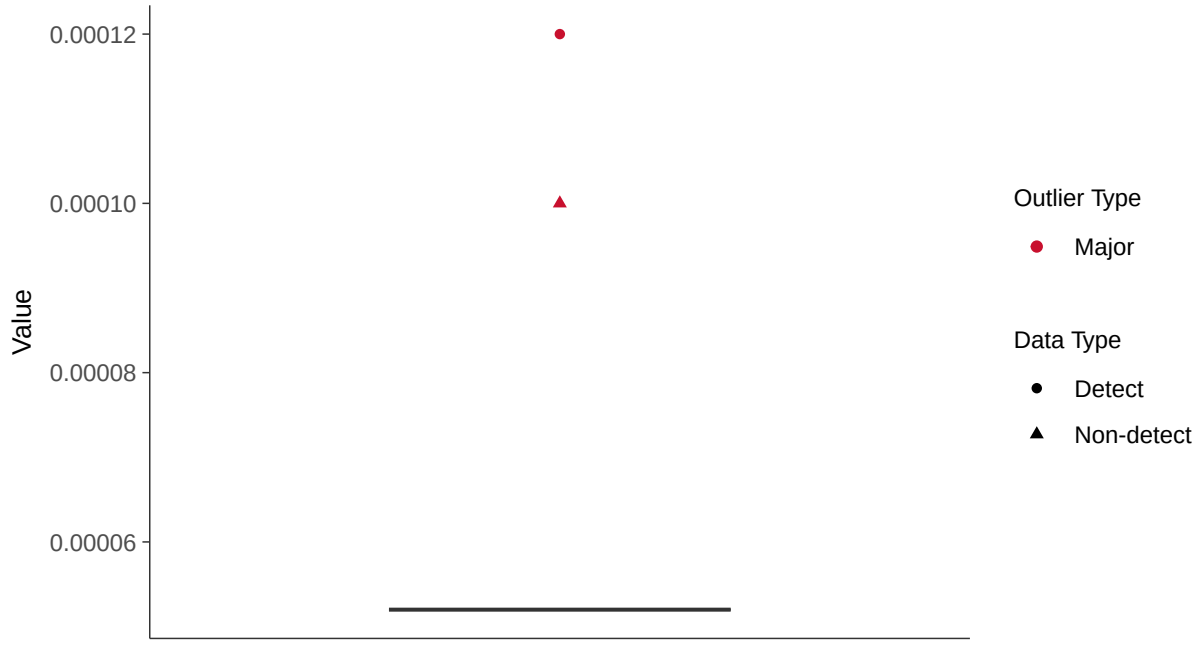
ID: 18_1_4_104





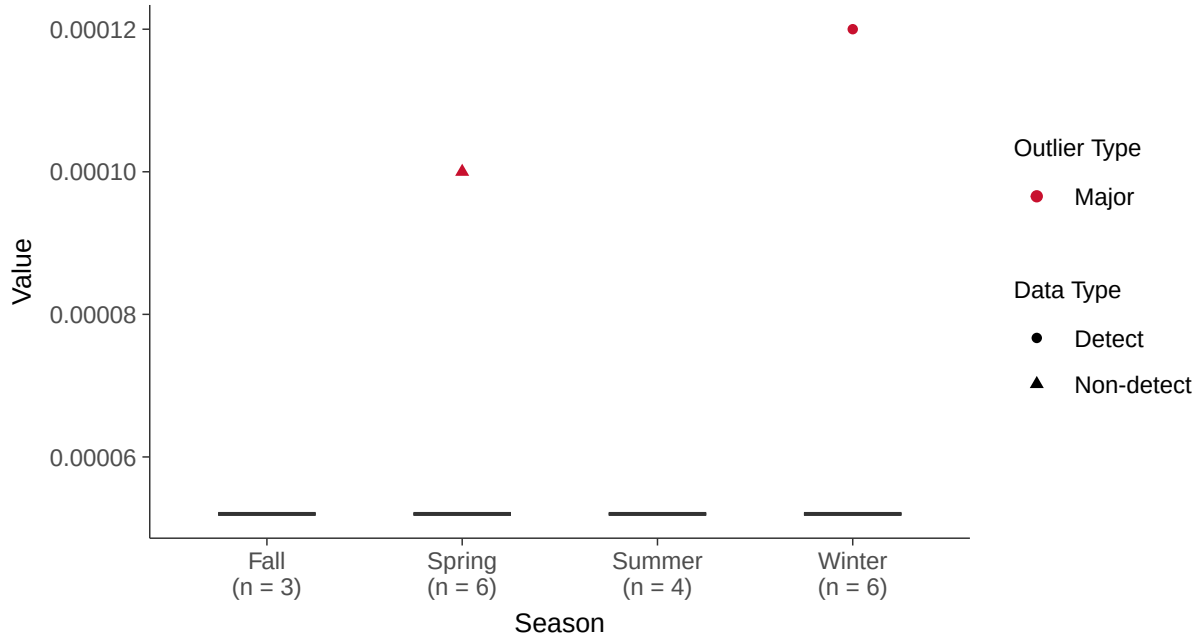
Boxplot

Beryllium, MW-08 (mg/L)



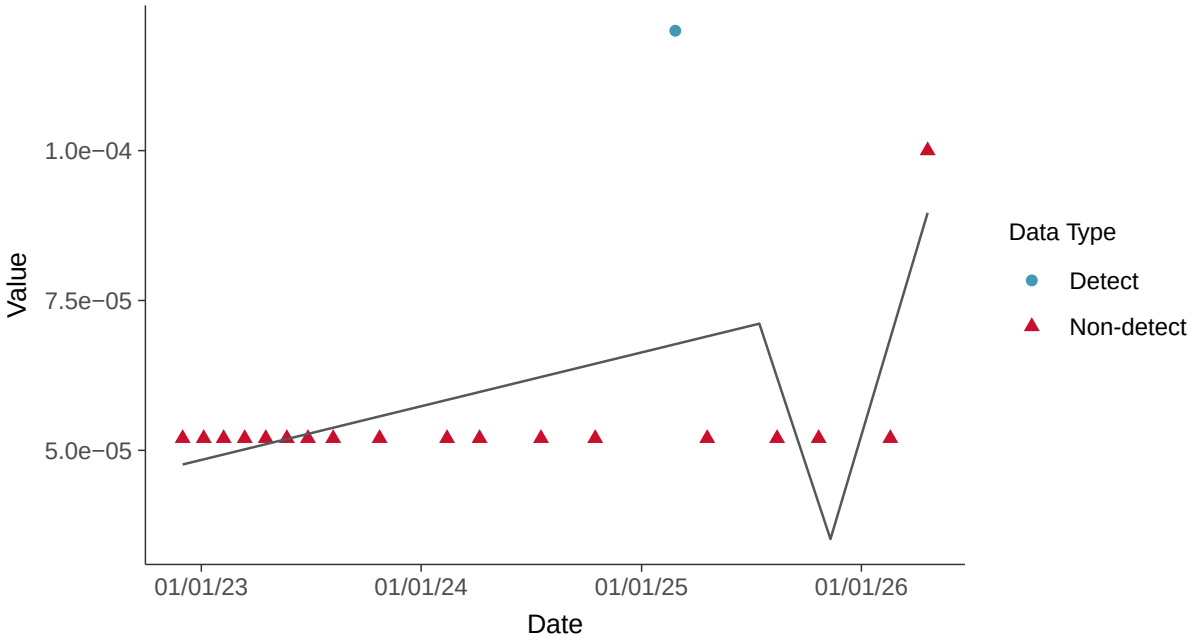
Boxplot by Season

Beryllium, MW-08 (mg/L)



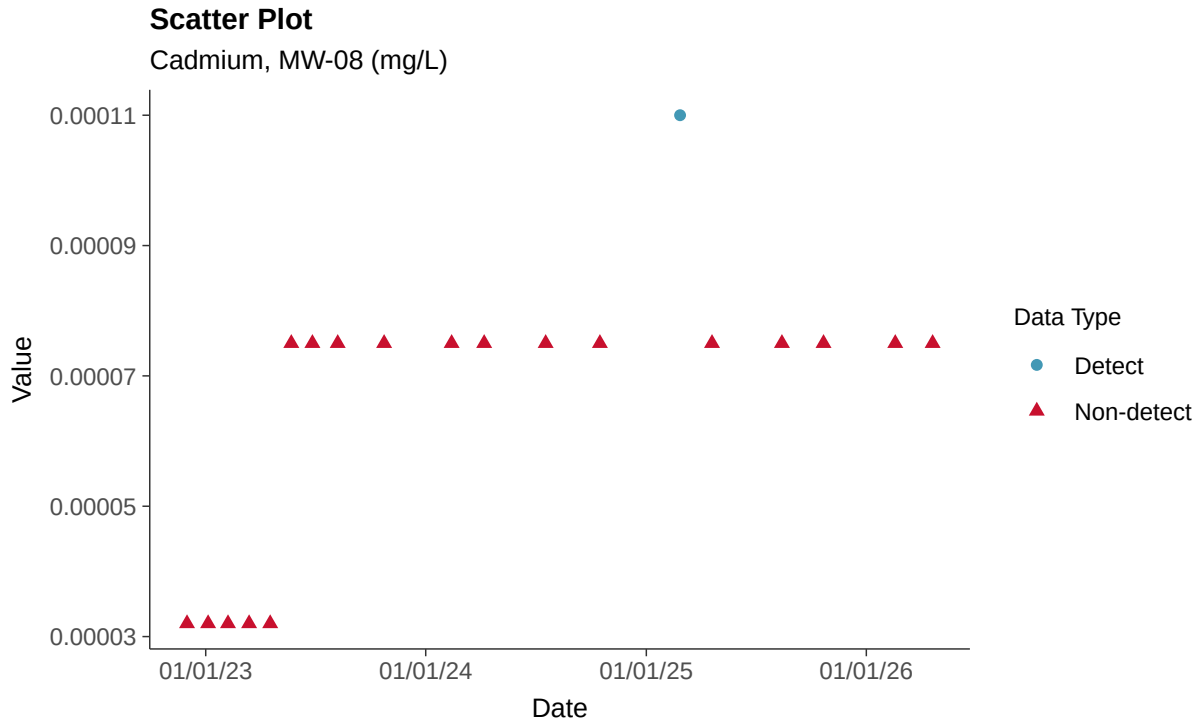
Trend Regression: Piecewise Linear-Linear-Linear

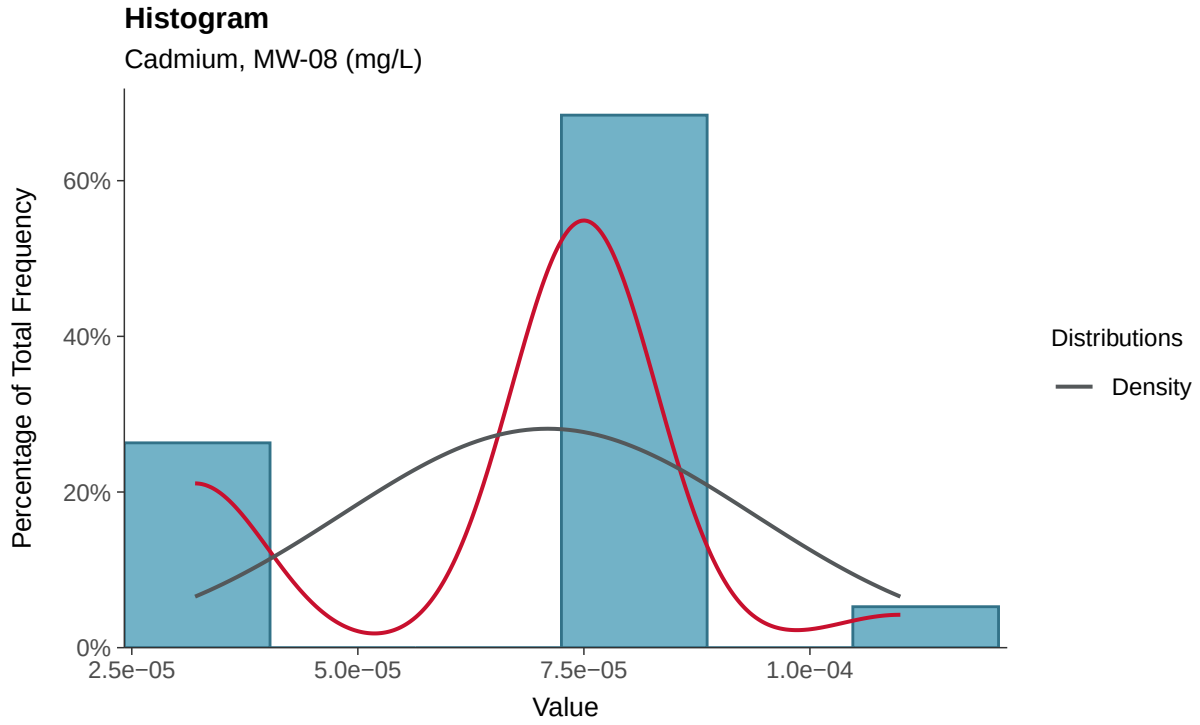
Beryllium, MW-08 (mg/L)



Appendix IV: Cadmium, MW-08

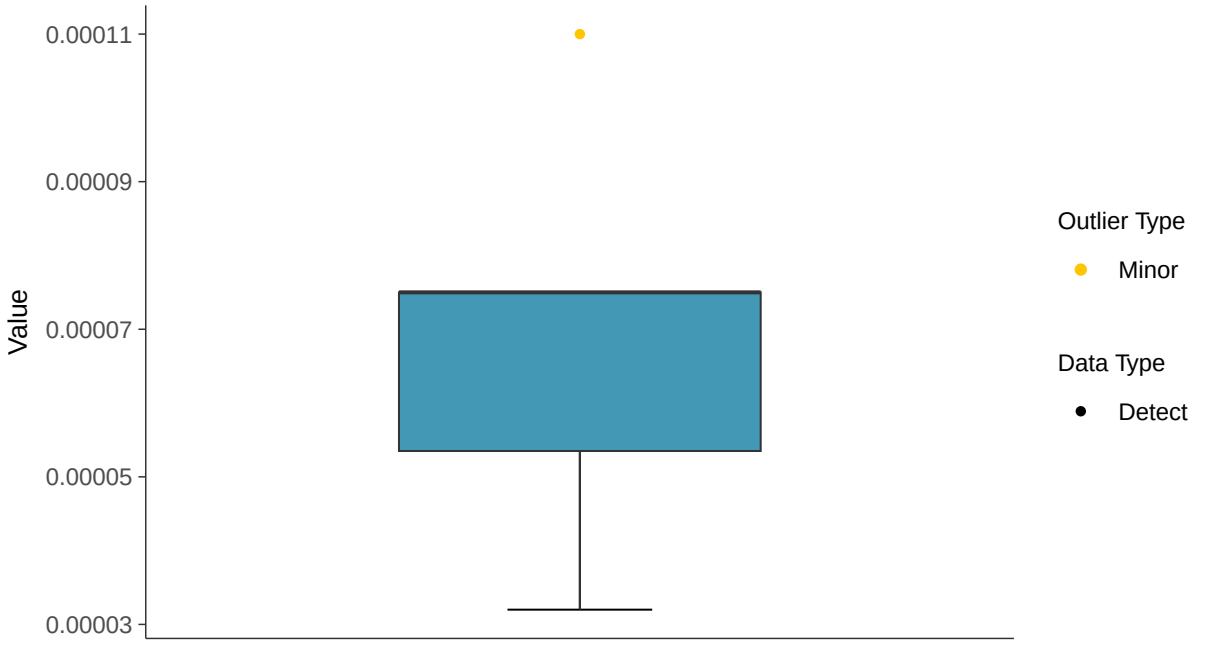
ID: 18_1_4_106





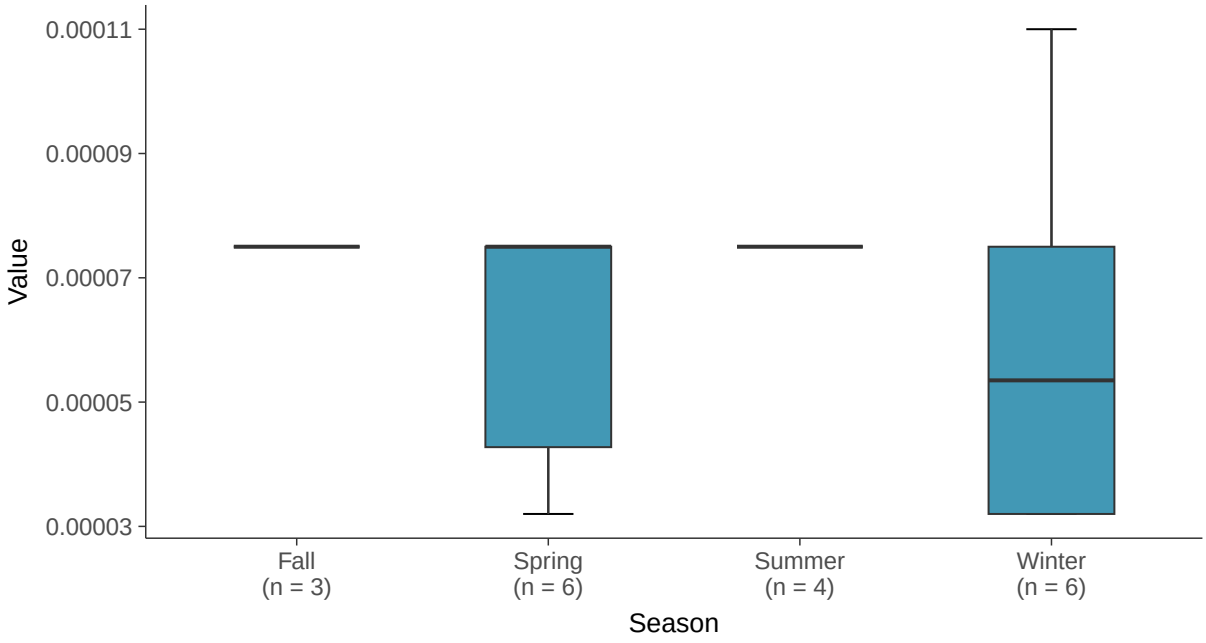
Boxplot

Cadmium, MW-08 (mg/L)



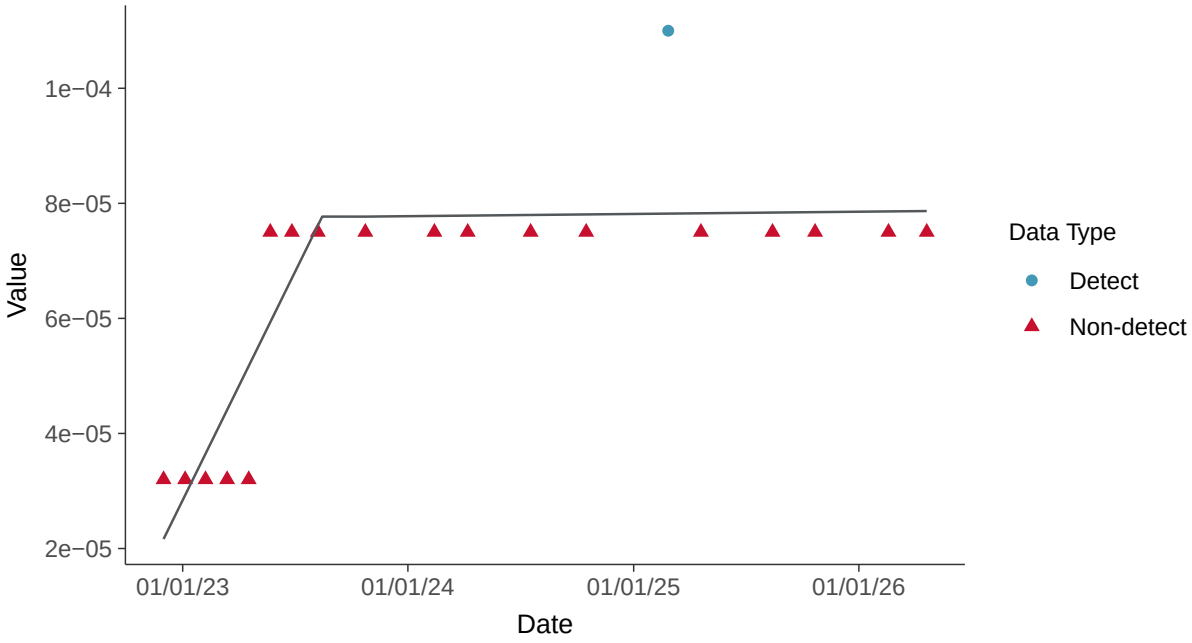
Boxplot by Season

Cadmium, MW-08 (mg/L)



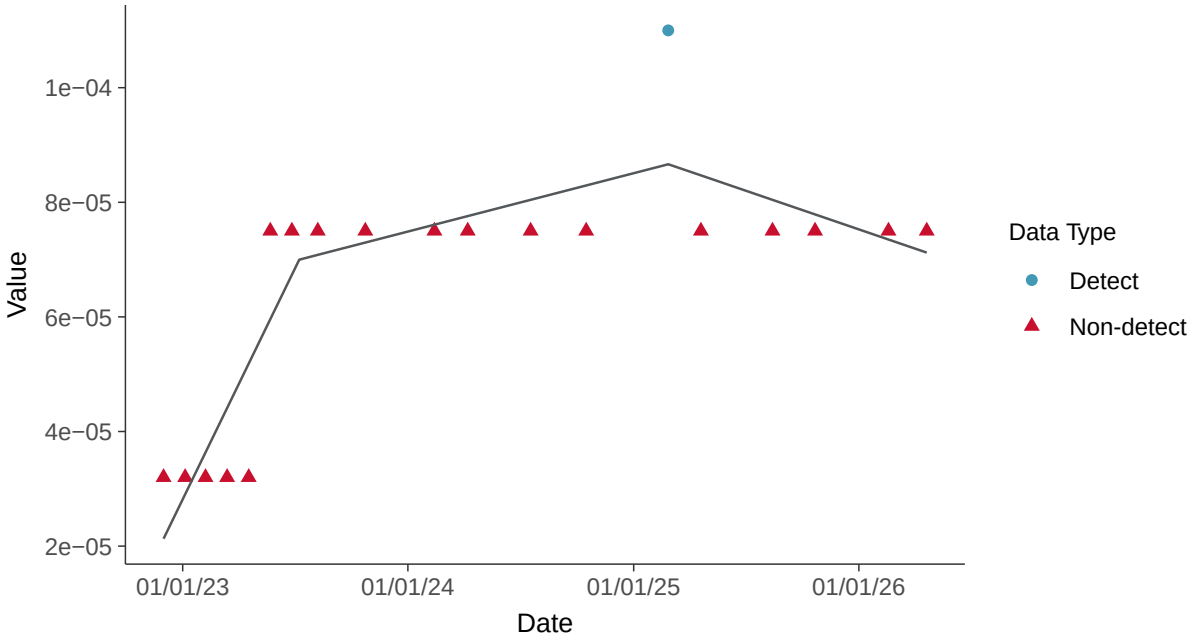
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-08 (mg/L)

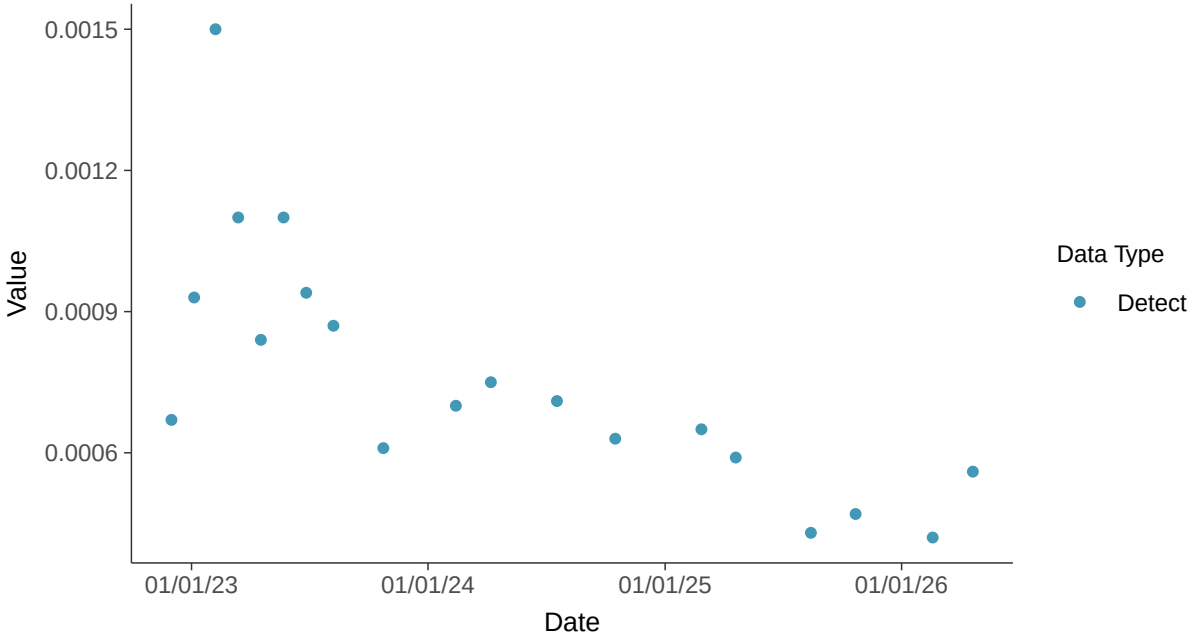


Appendix IV: Chromium, Total, MW-08

ID: 18_1_4_109

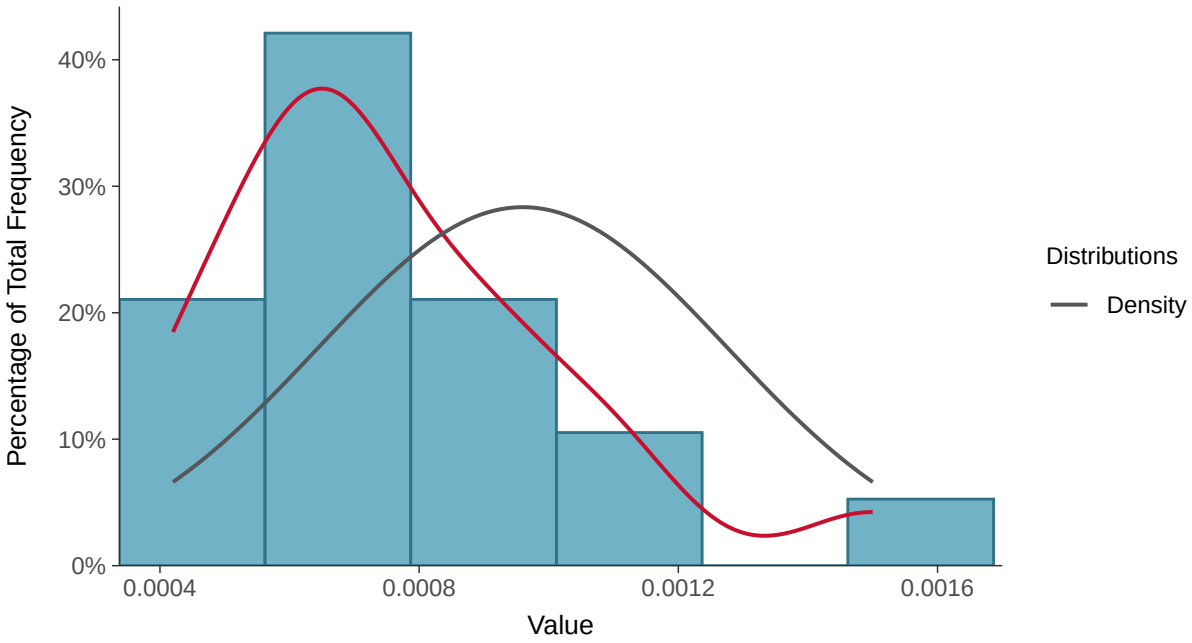
Scatter Plot

Chromium, Total, MW-08 (mg/L)



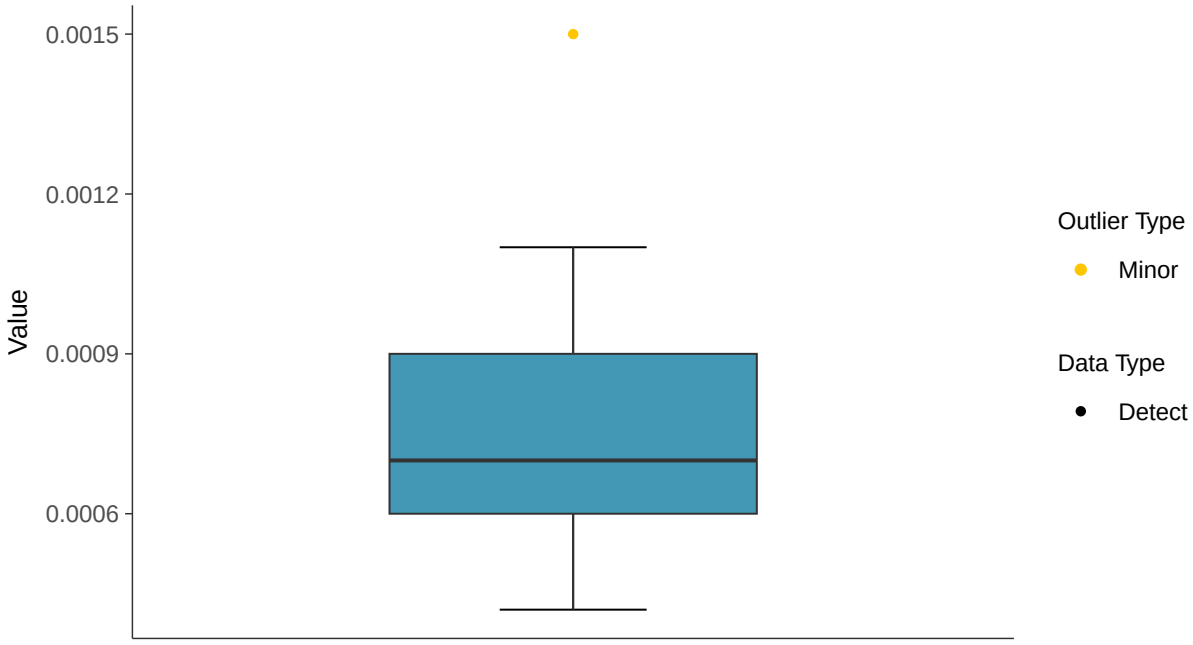
Histogram

Chromium, Total, MW-08 (mg/L)



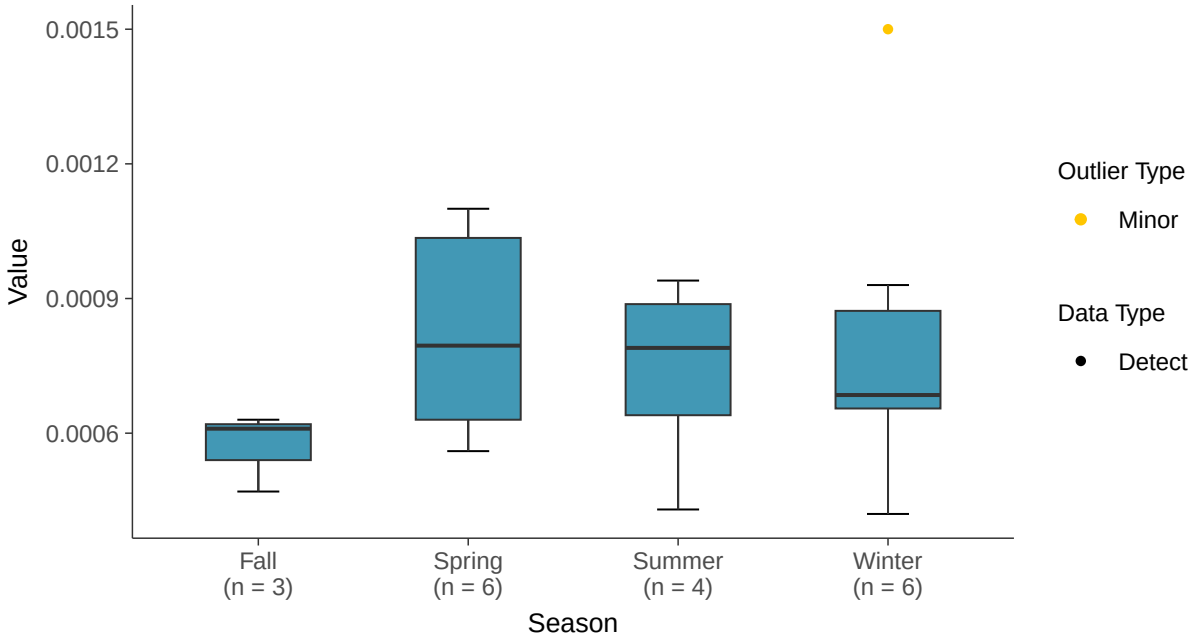
Boxplot

Chromium, Total, MW-08 (mg/L)



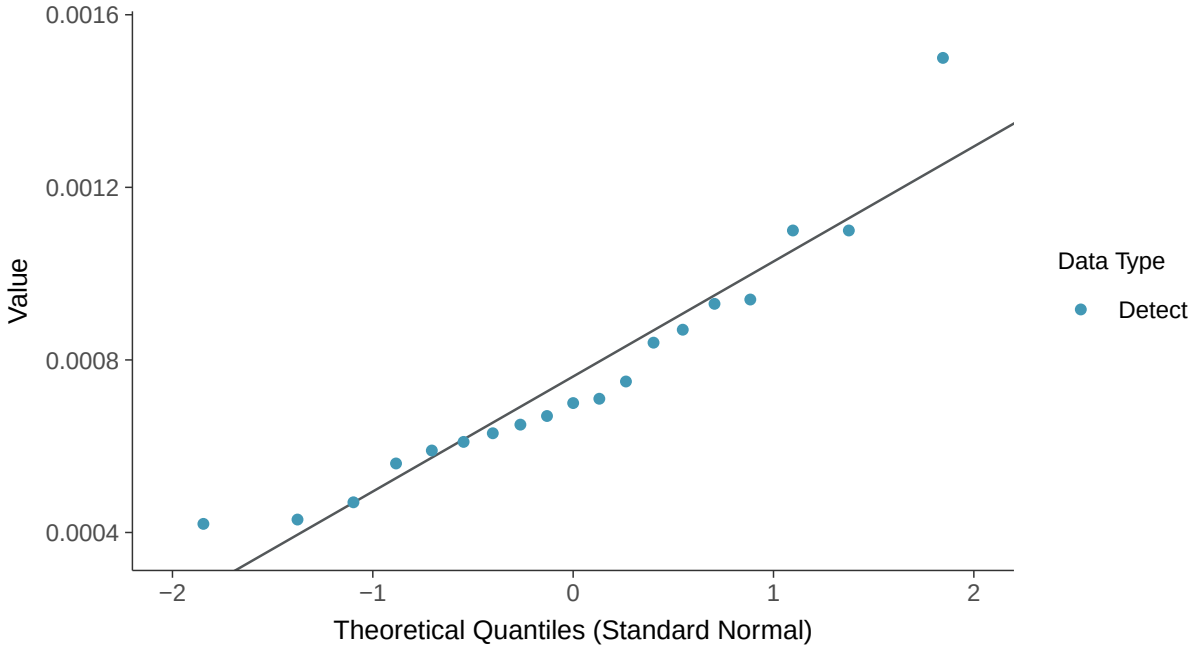
Boxplot by Season

Chromium, Total, MW-08 (mg/L)



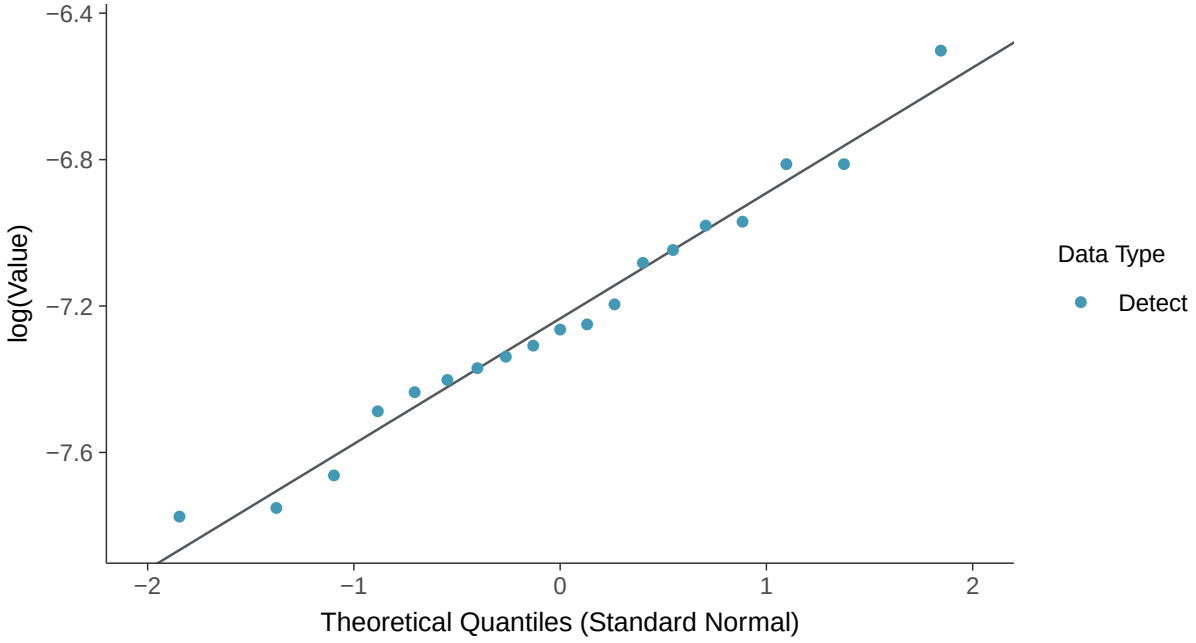
Normal Q-Q plot

Chromium, Total, MW-08 (mg/L)



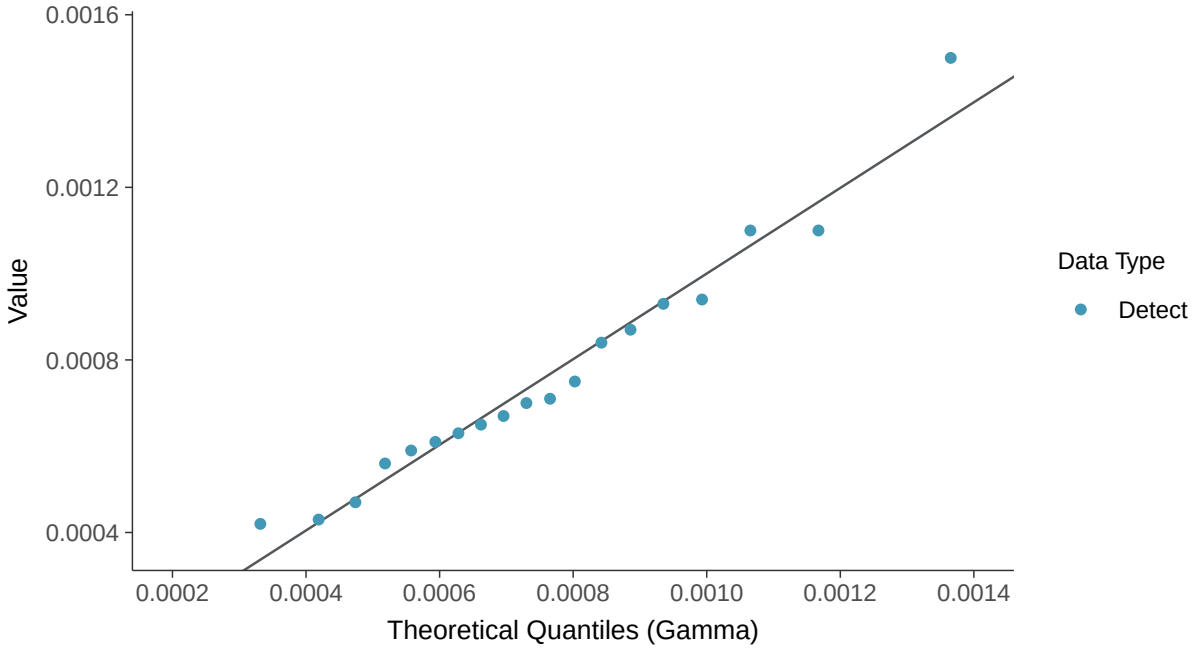
Lognormal Q-Q plot

Chromium, Total, MW-08 (mg/L)



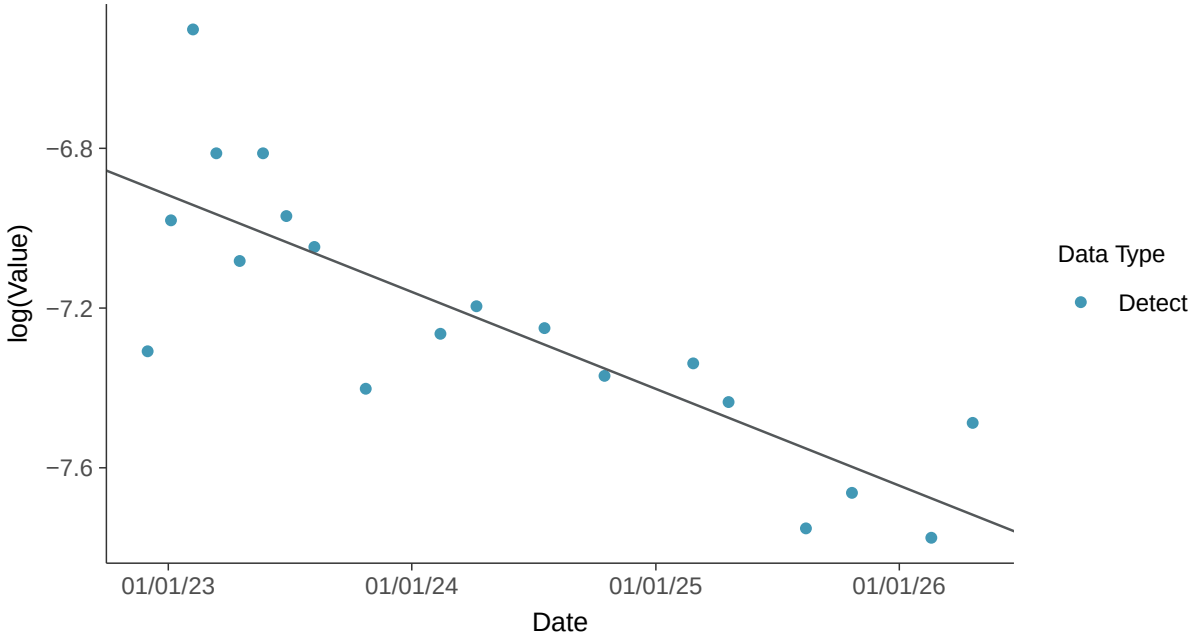
Gamma Q-Q plot

Chromium, Total, MW-08 (mg/L)



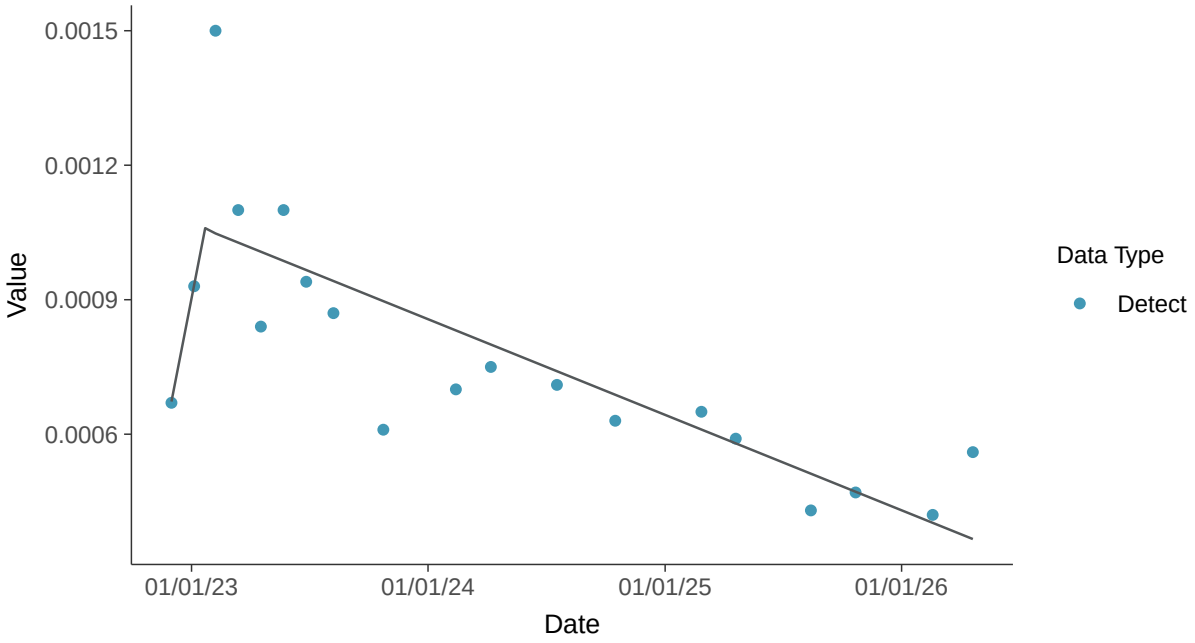
Trend Regression: Lognormal MLE

Chromium, Total, MW-08 (mg/L)



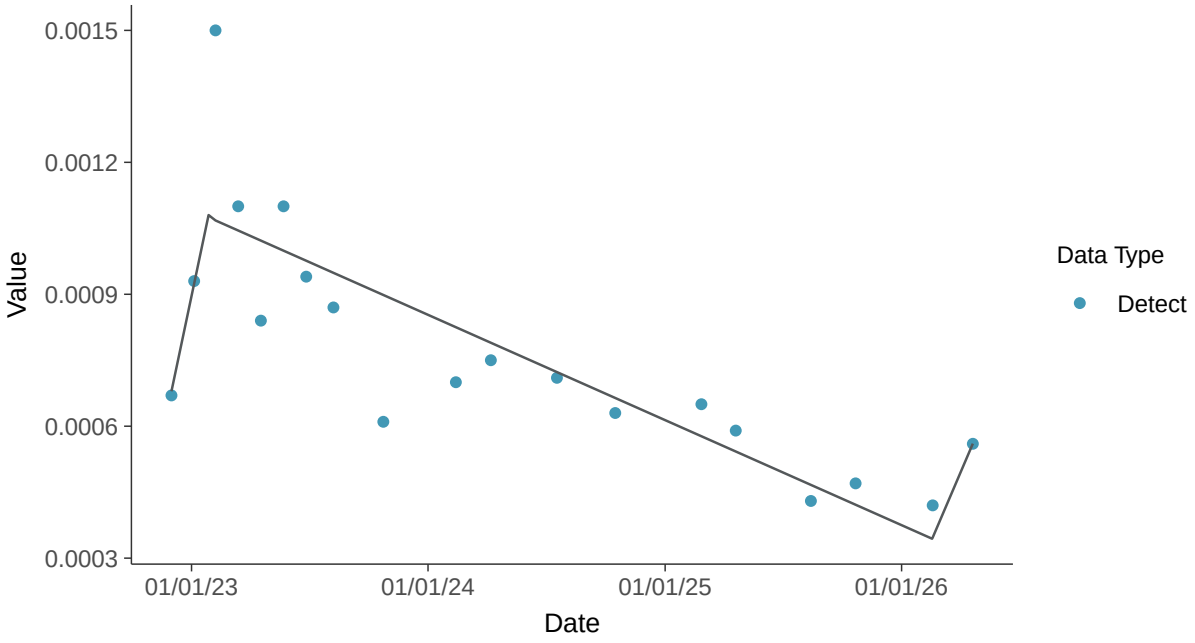
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-08 (mg/L)

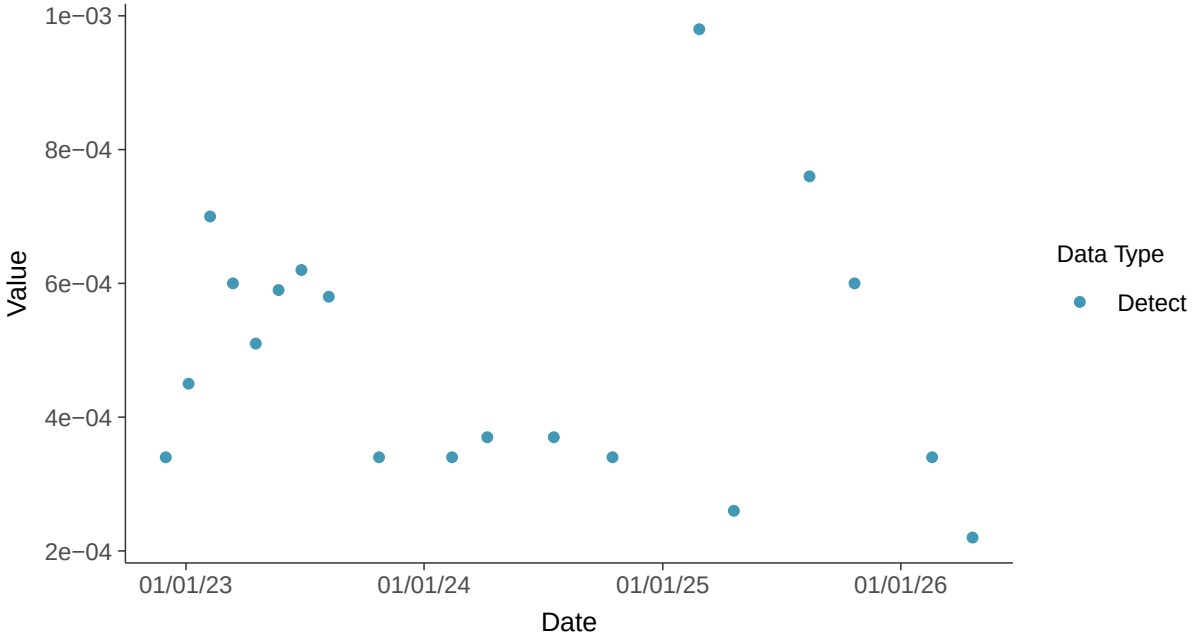


Appendix IV: Cobalt, MW-08

ID: 18_1_4_110

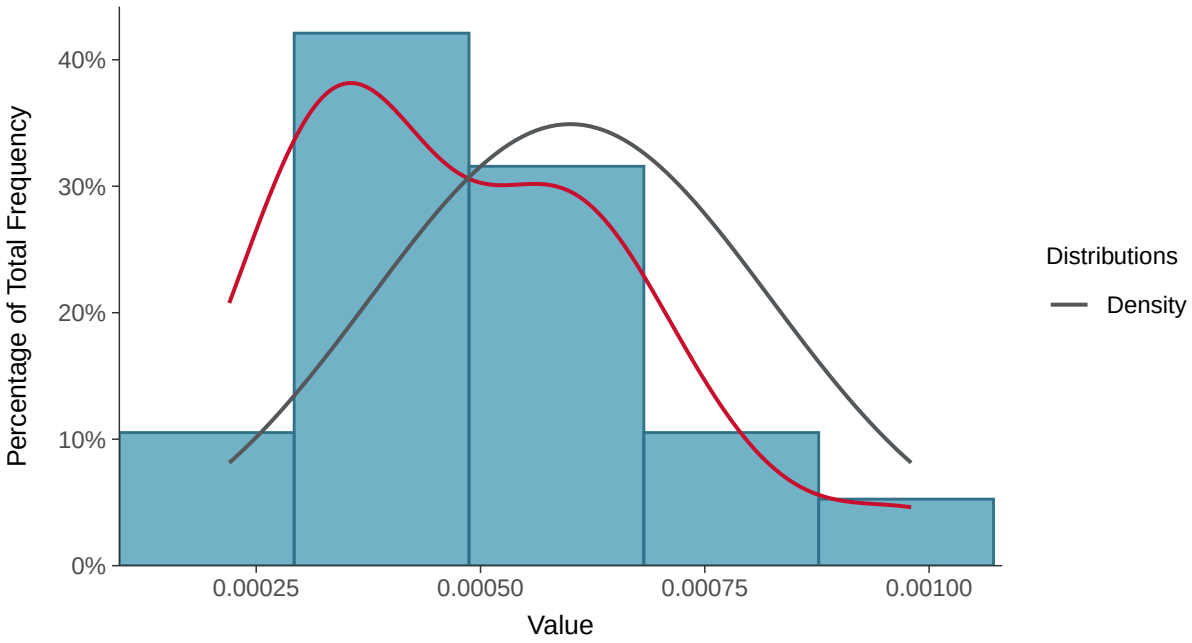
Scatter Plot

Cobalt, MW-08 (mg/L)



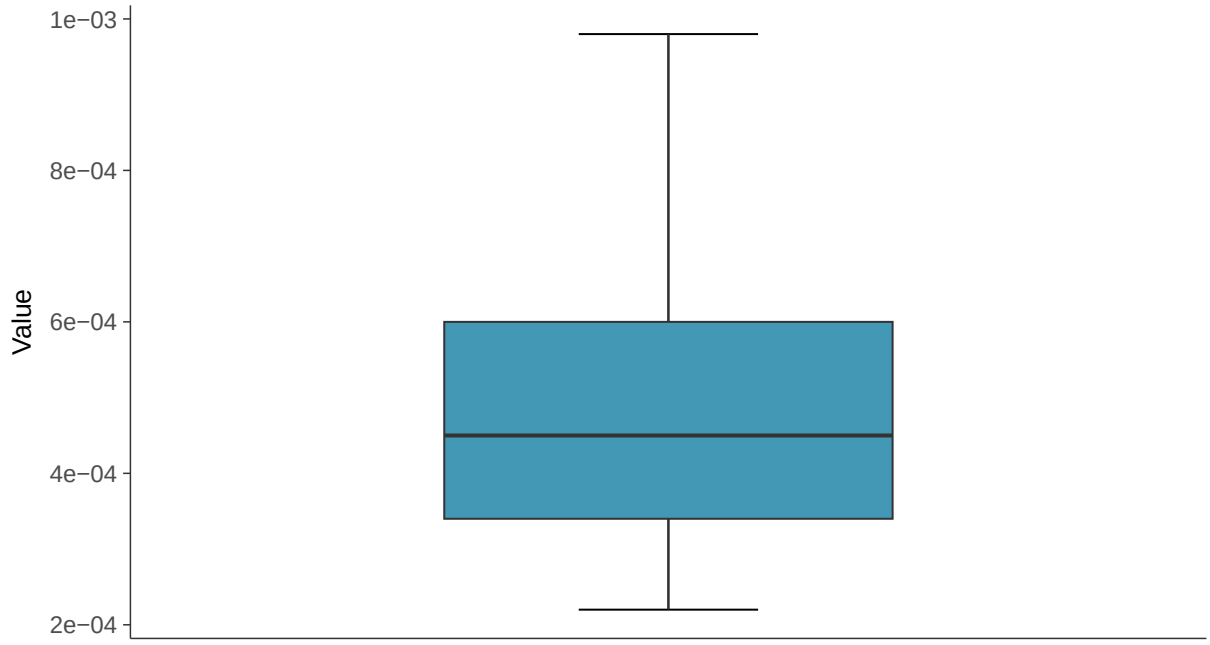
Histogram

Cobalt, MW-08 (mg/L)



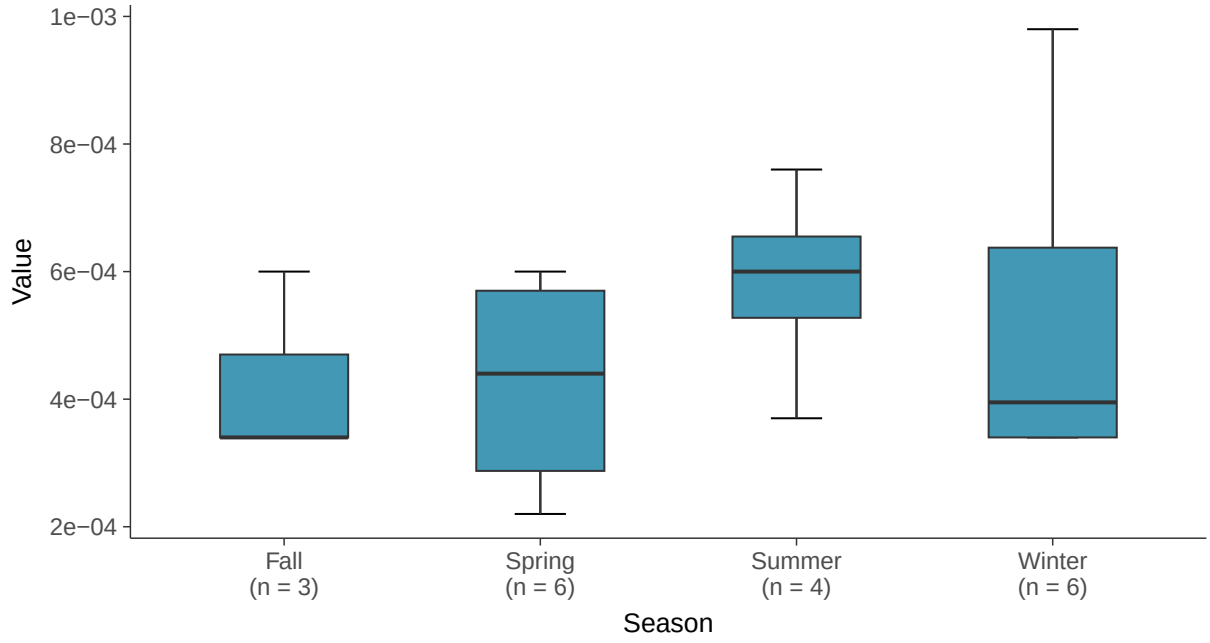
Boxplot

Cobalt, MW-08 (mg/L)



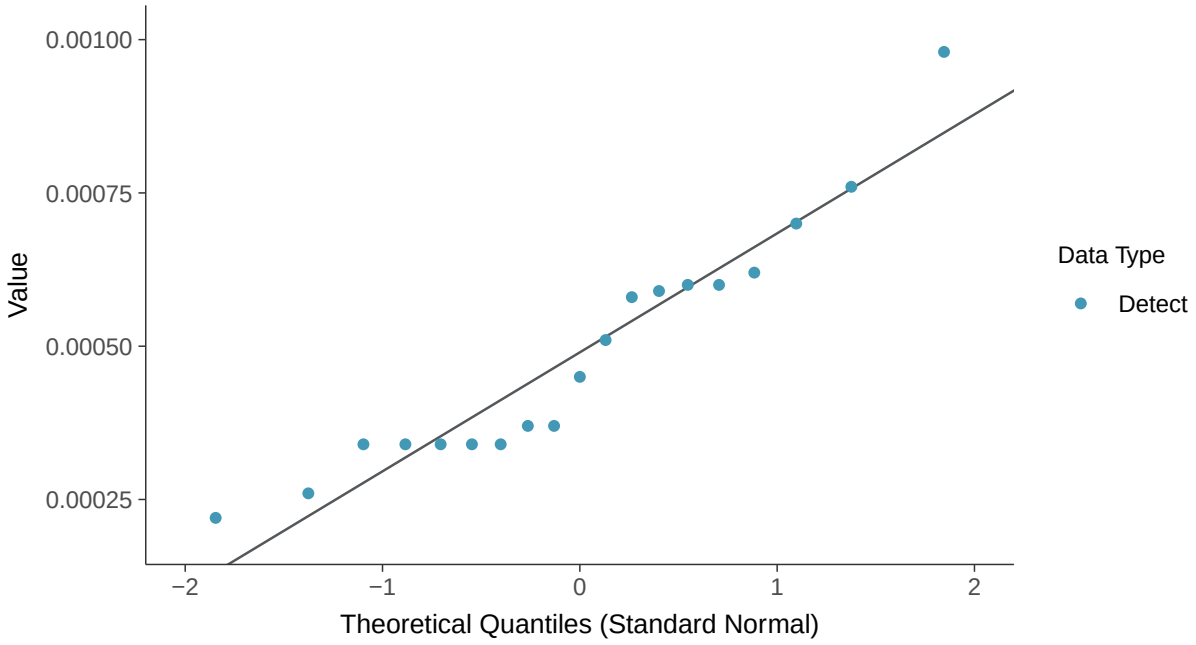
Boxplot by Season

Cobalt, MW-08 (mg/L)



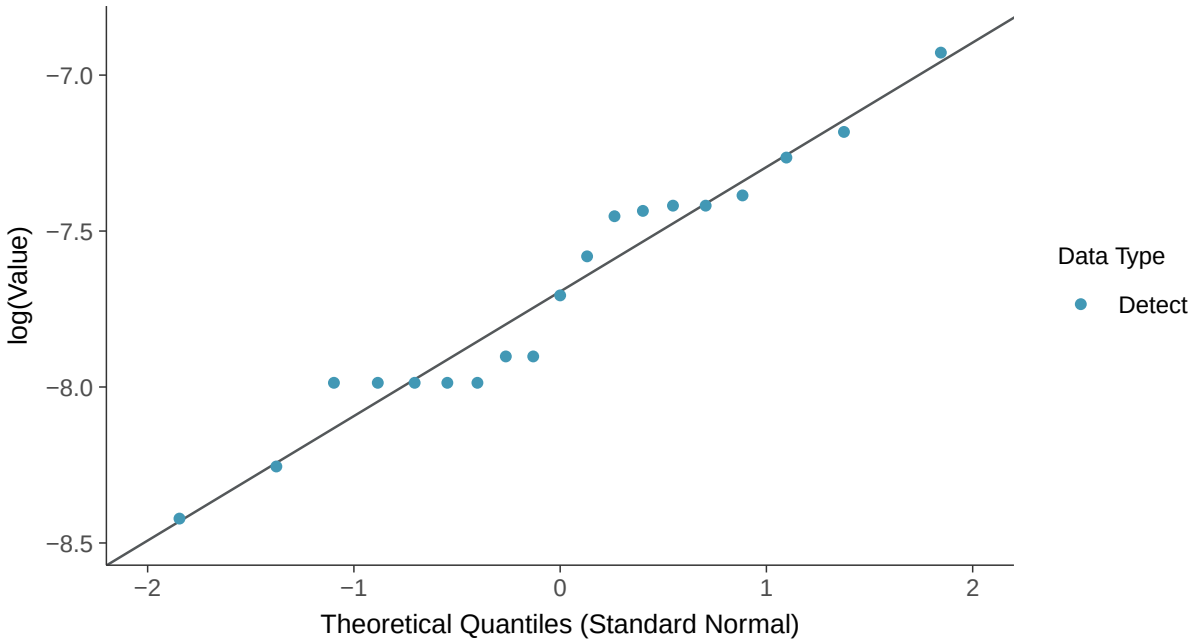
Normal Q-Q plot

Cobalt, MW-08 (mg/L)



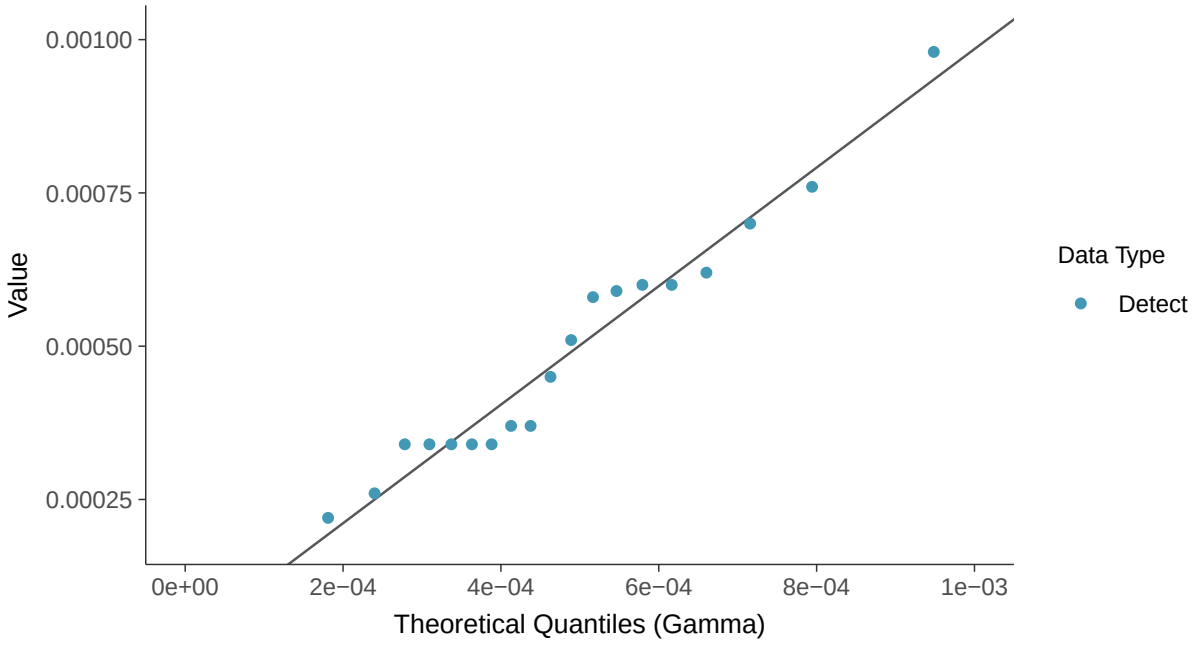
Lognormal Q-Q plot

Cobalt, MW-08 (mg/L)



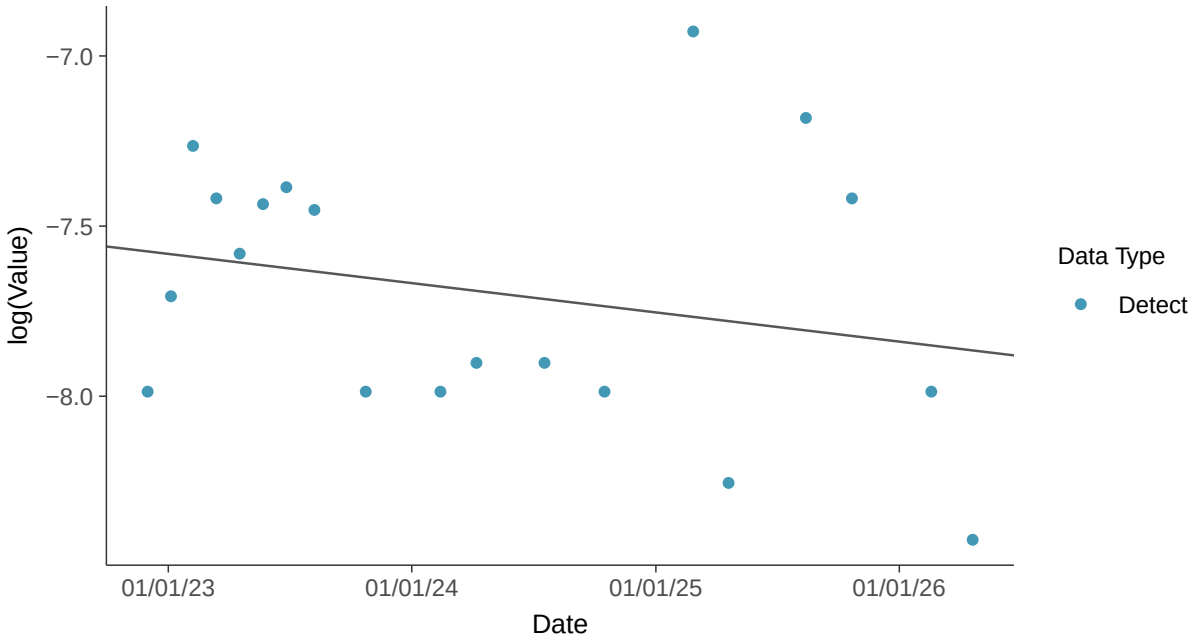
Gamma Q-Q plot

Cobalt, MW-08 (mg/L)



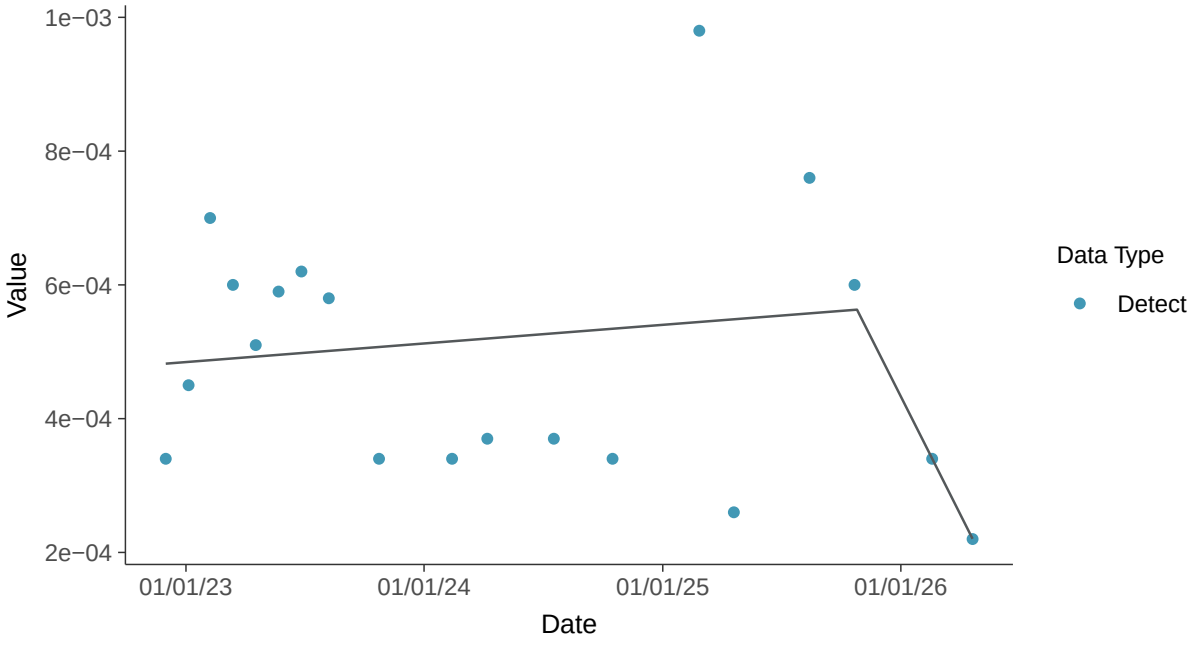
Trend Regression: Lognormal MLE

Cobalt, MW-08 (mg/L)



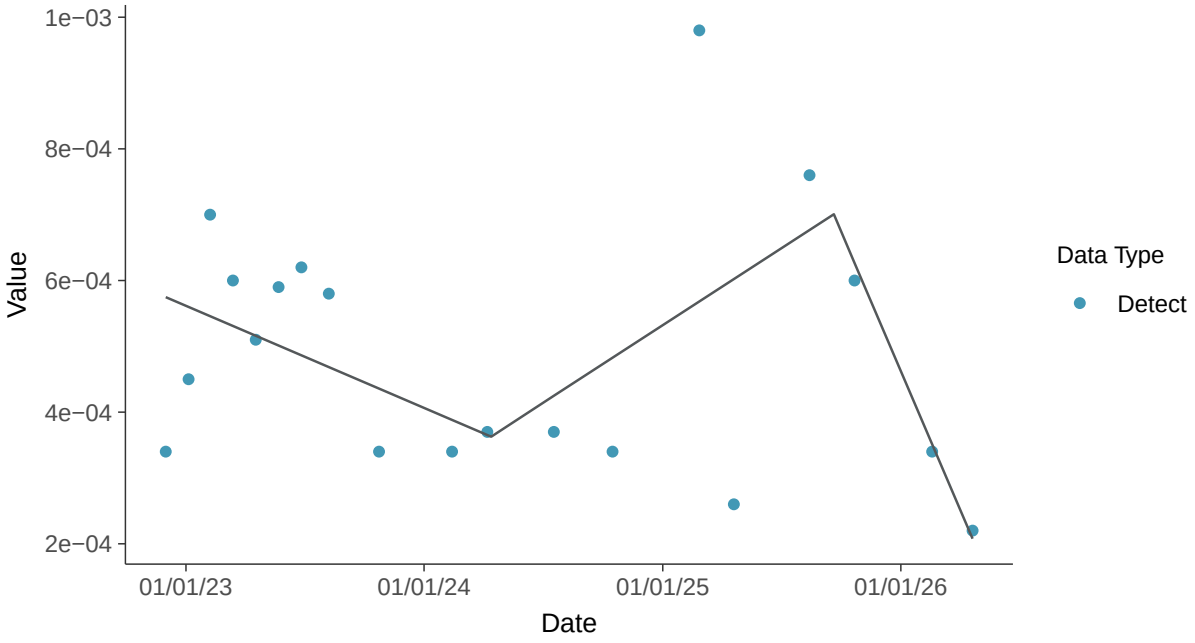
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-08 (mg/L)

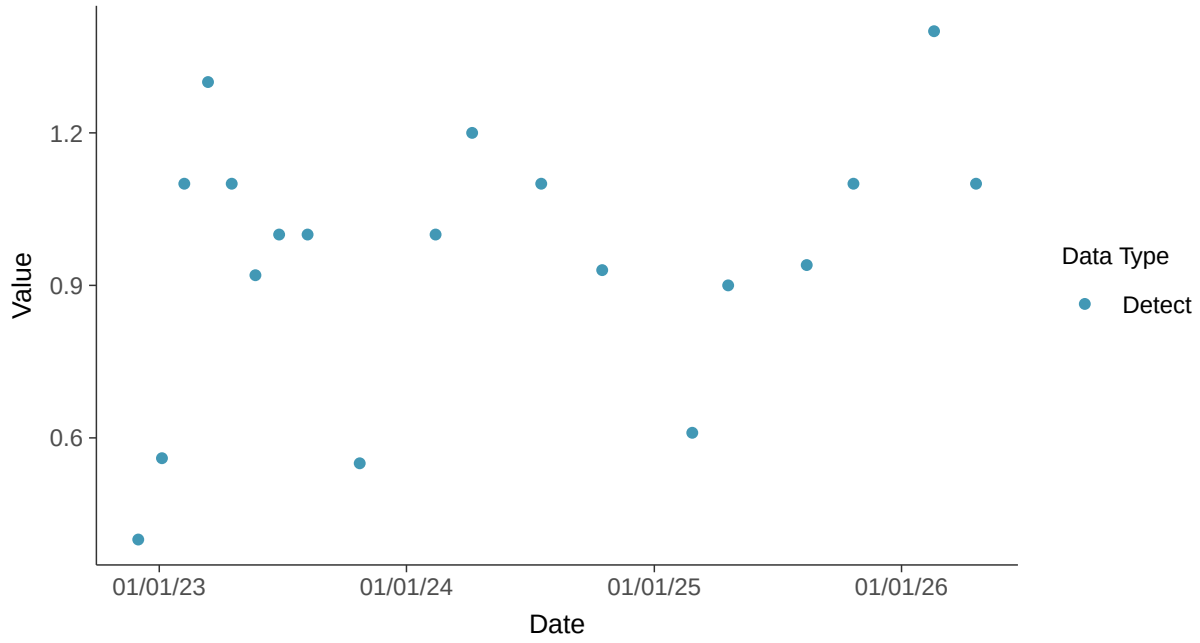


Appendix IV: Fluoride (App IV), MW-08

ID: 18_1_4_113

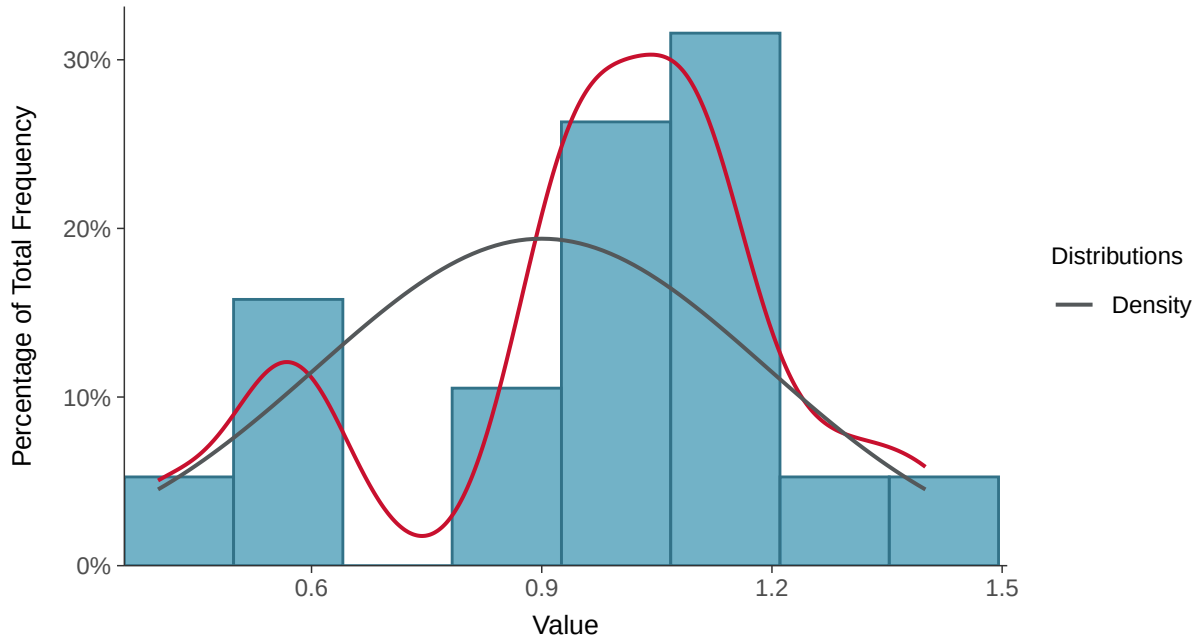
Scatter Plot

Fluoride (App IV), MW-08 (mg/L)



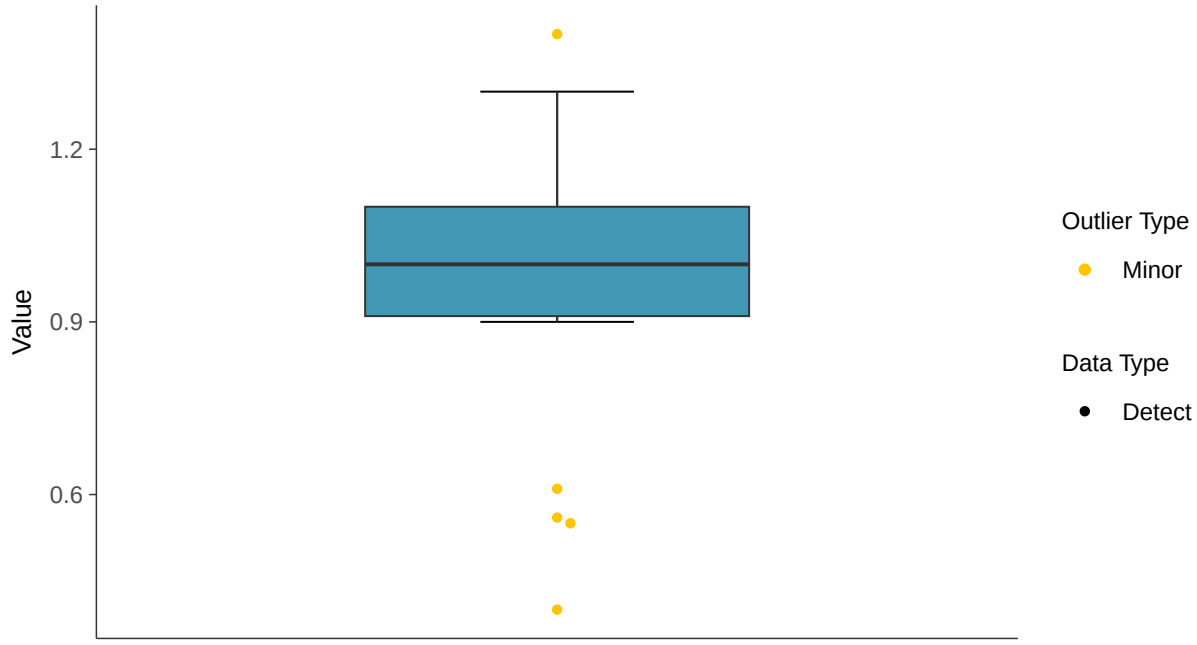
Histogram

Fluoride (App IV), MW-08 (mg/L)



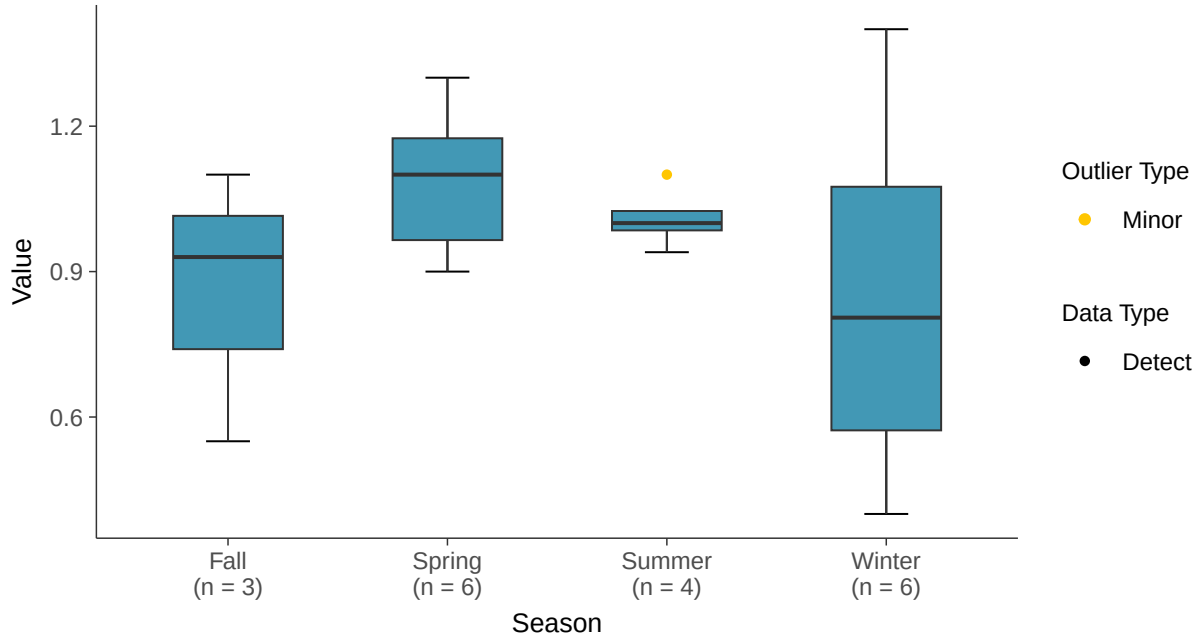
Boxplot

Fluoride (App IV), MW-08 (mg/L)



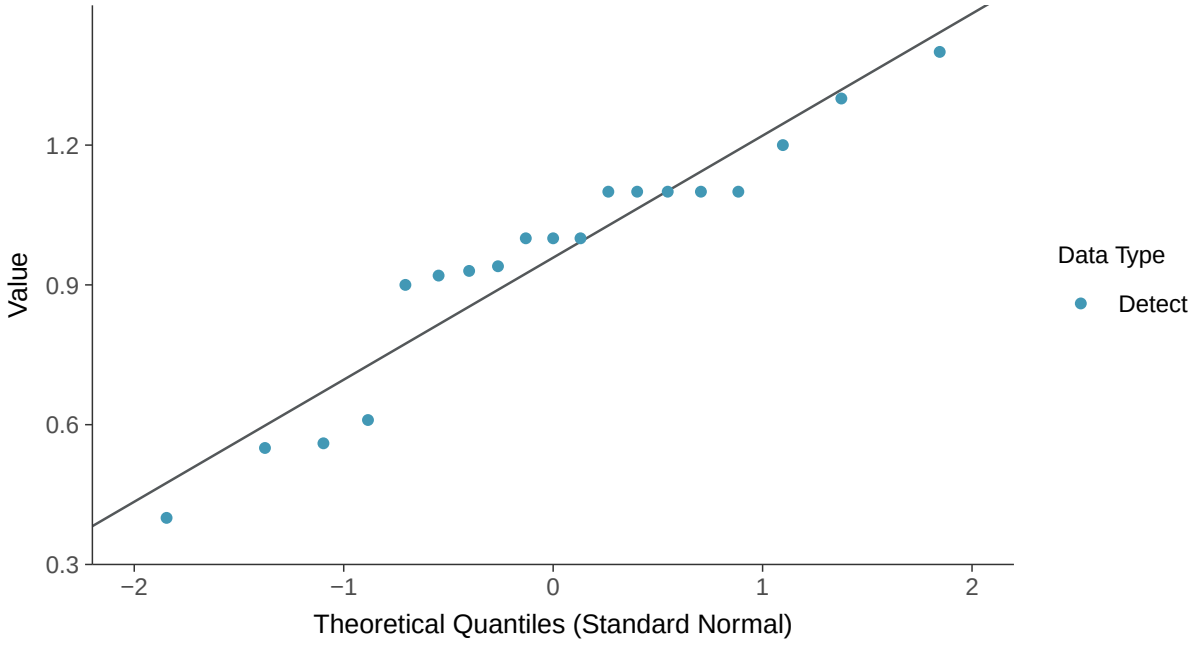
Boxplot by Season

Fluoride (App IV), MW-08 (mg/L)



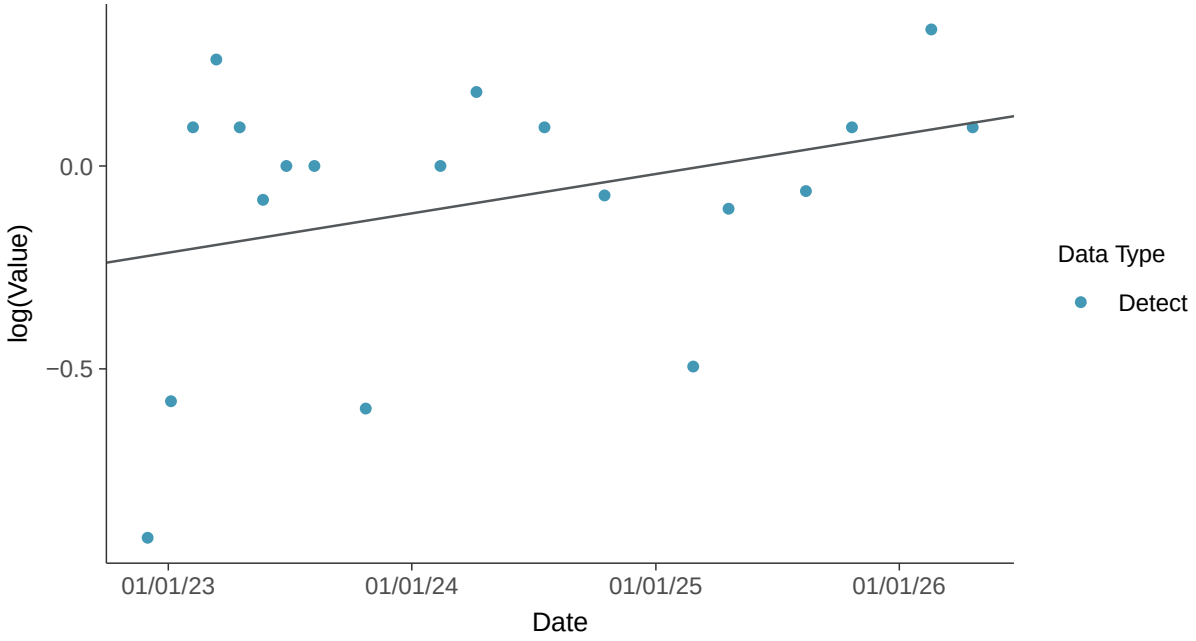
Normal Q-Q plot

Fluoride (App IV), MW-08 (mg/L)



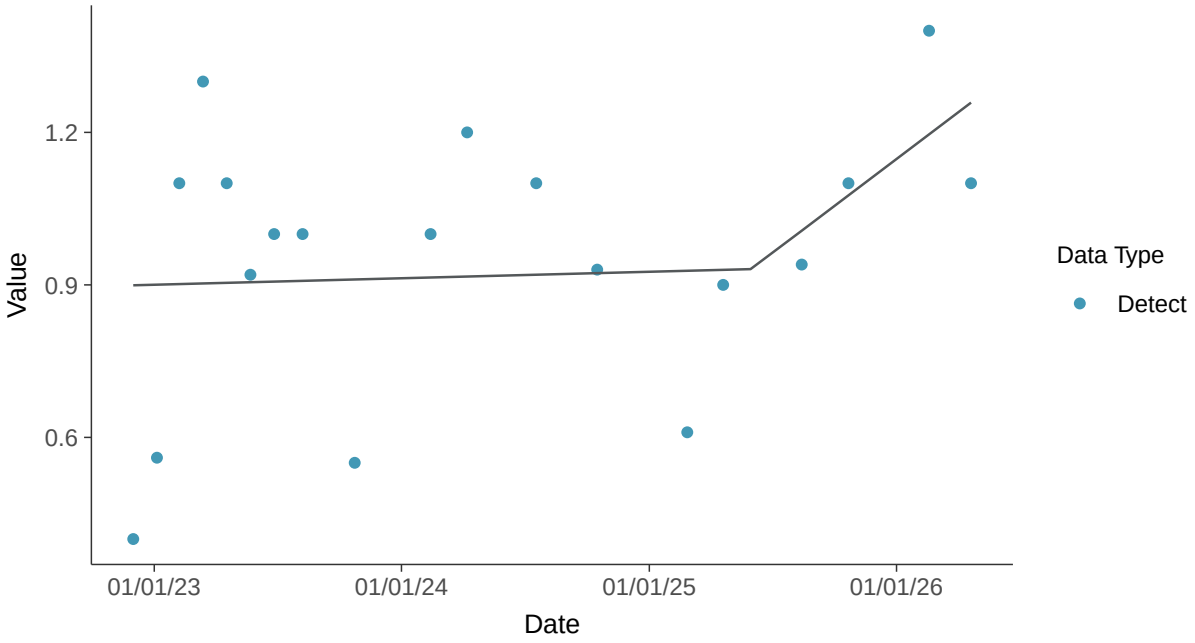
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-08 (mg/L)



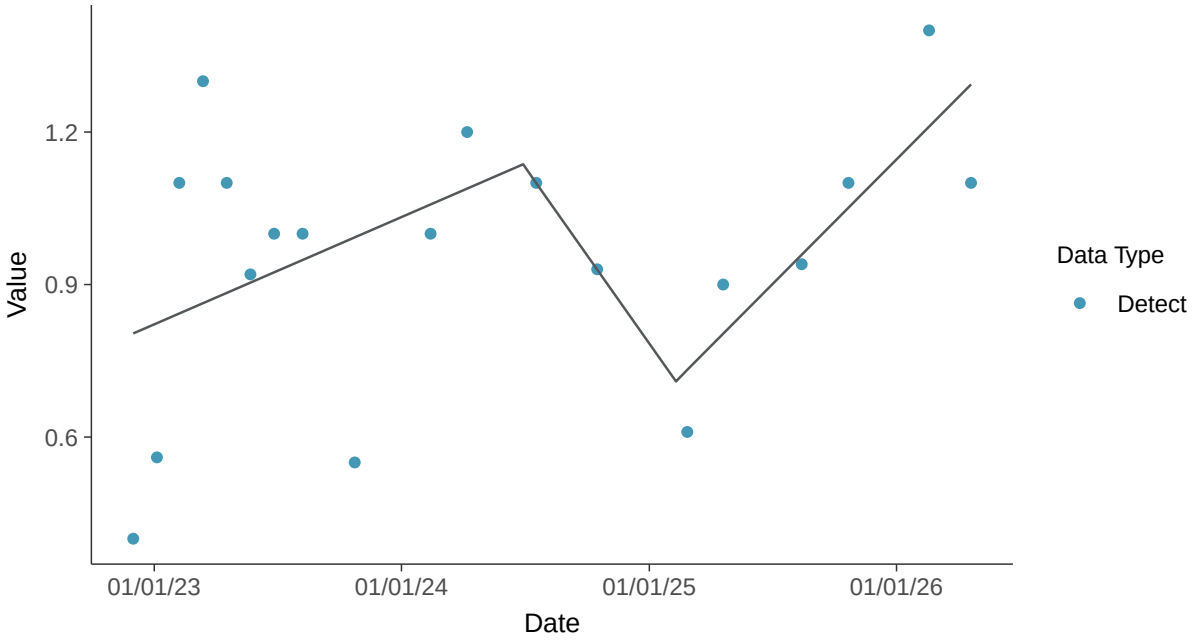
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-08 (mg/L)



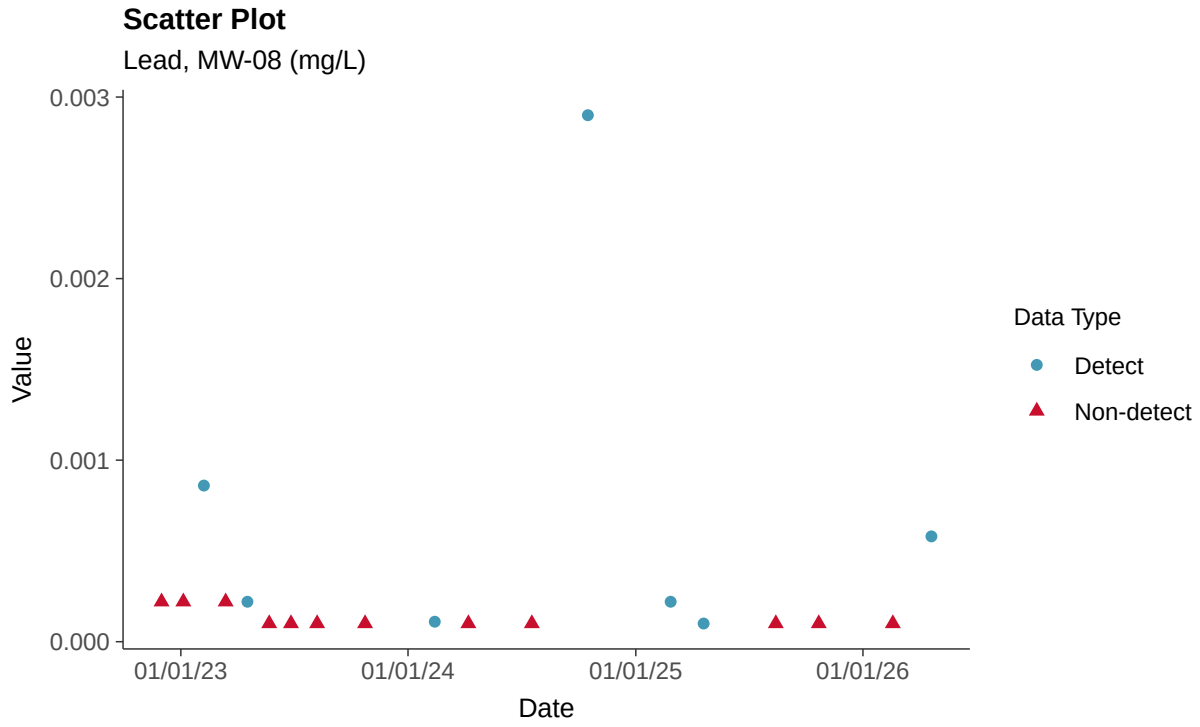
Trend Regression: Piecewise Linear-Linear-Linear

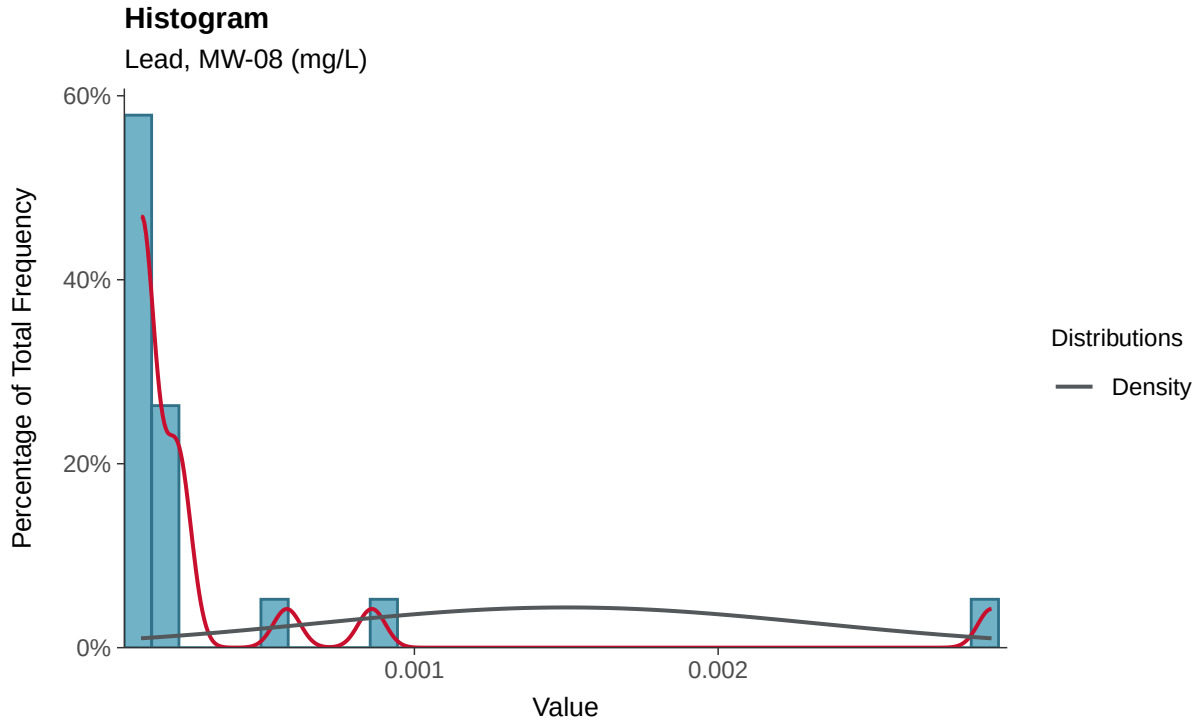
Fluoride (App IV), MW-08 (mg/L)



Appendix IV: Lead, MW-08

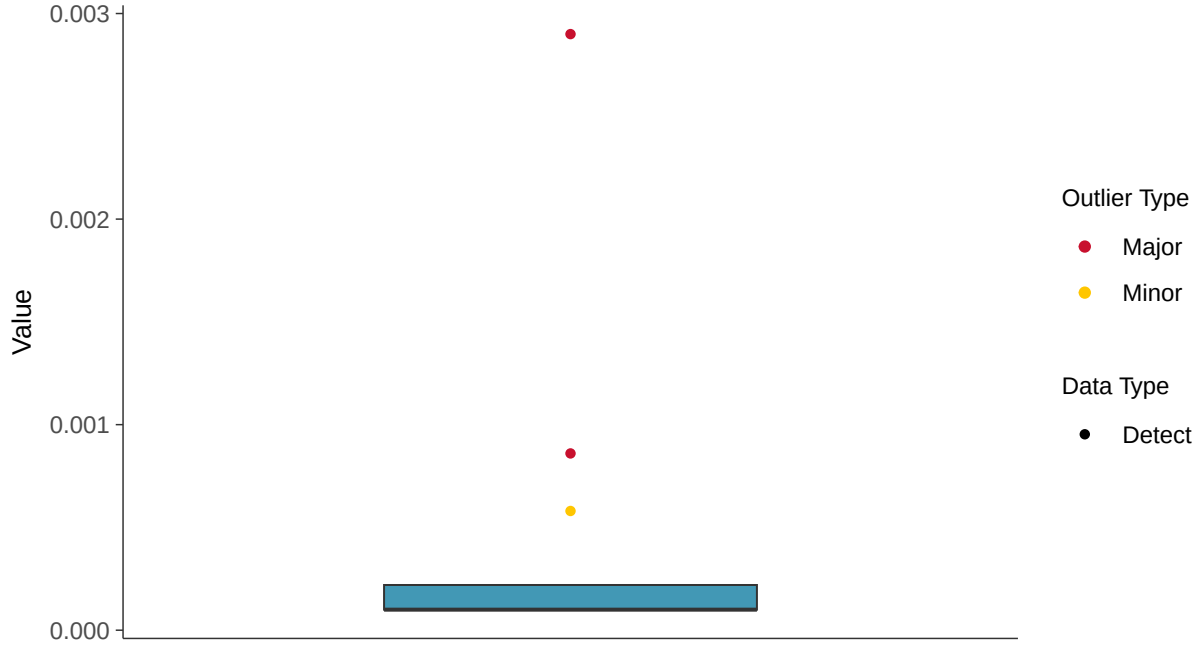
ID: 18_1_4_115





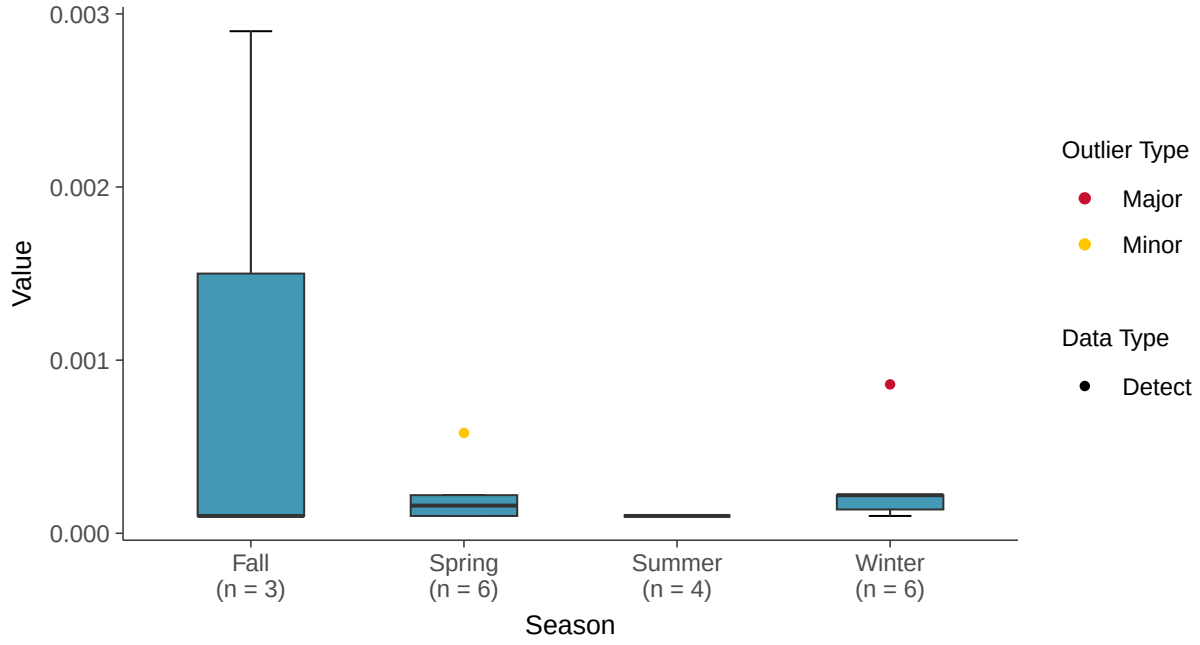
Boxplot

Lead, MW-08 (mg/L)



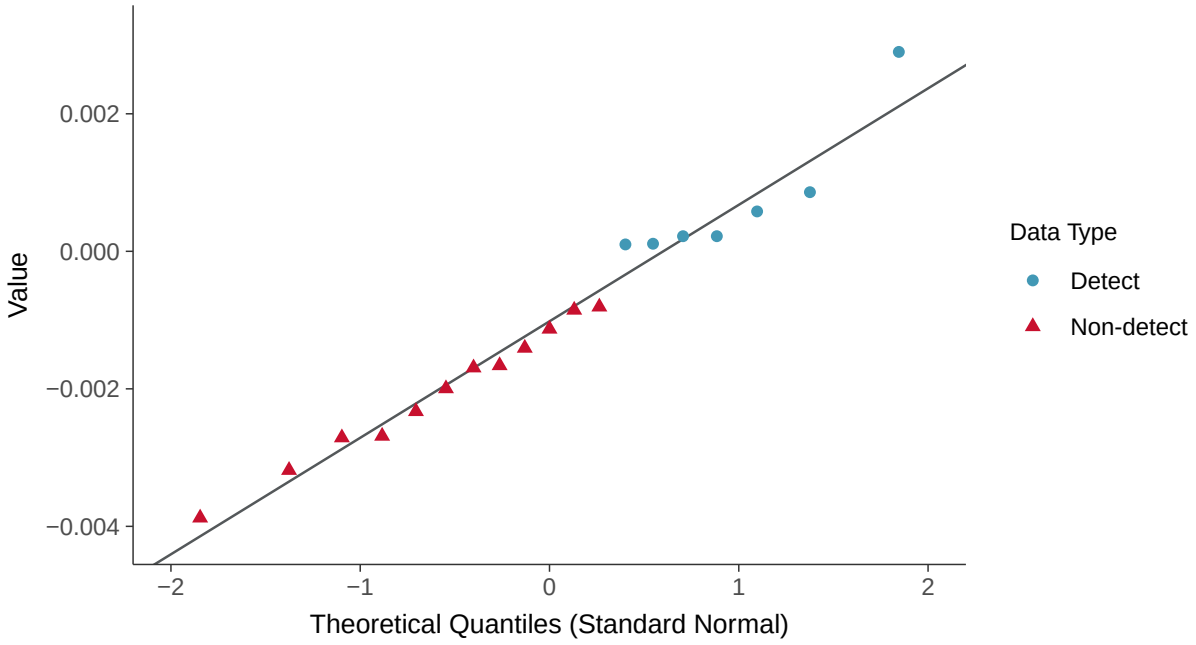
Boxplot by Season

Lead, MW-08 (mg/L)



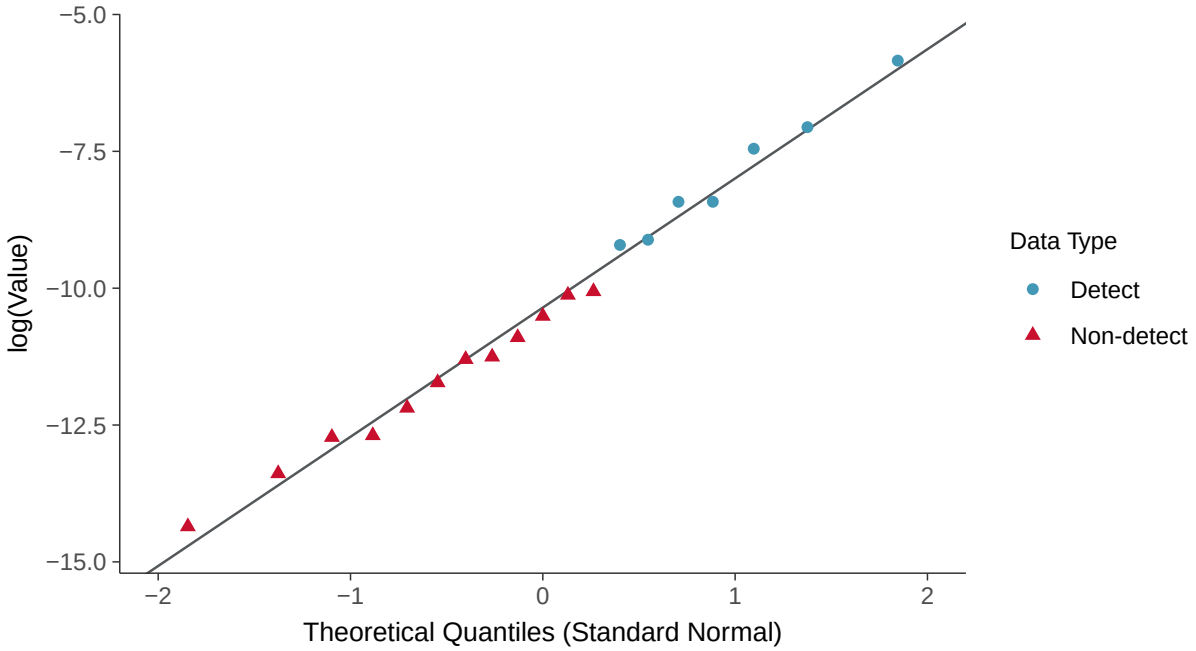
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-08 (mg/L)



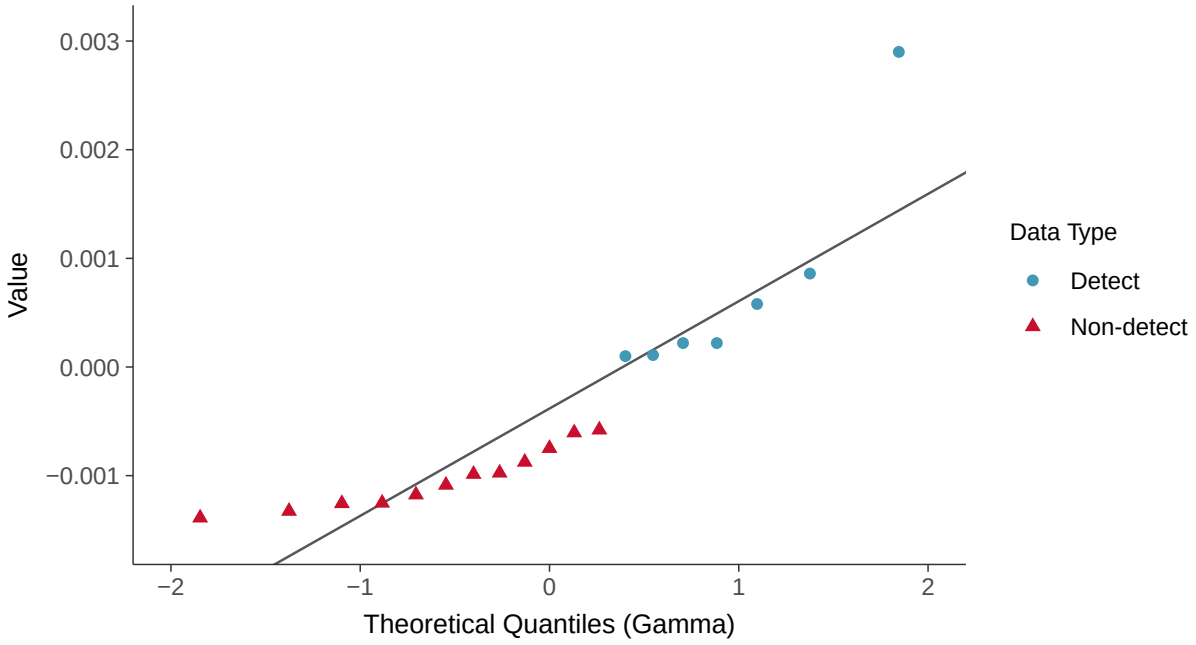
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-08 (mg/L)



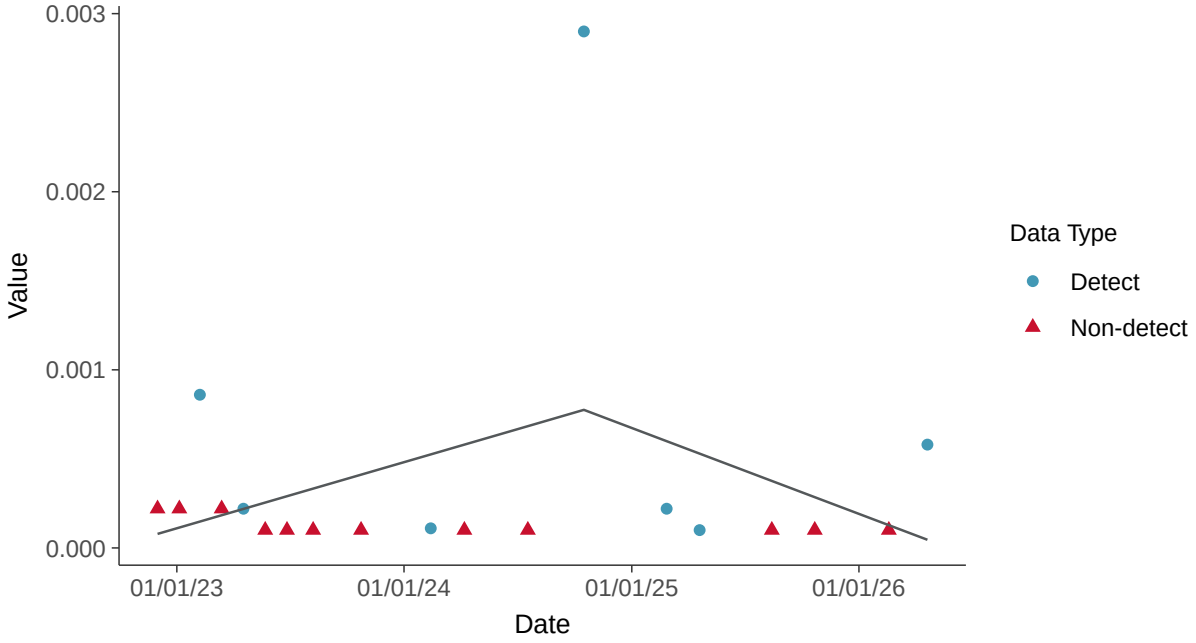
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-08 (mg/L)



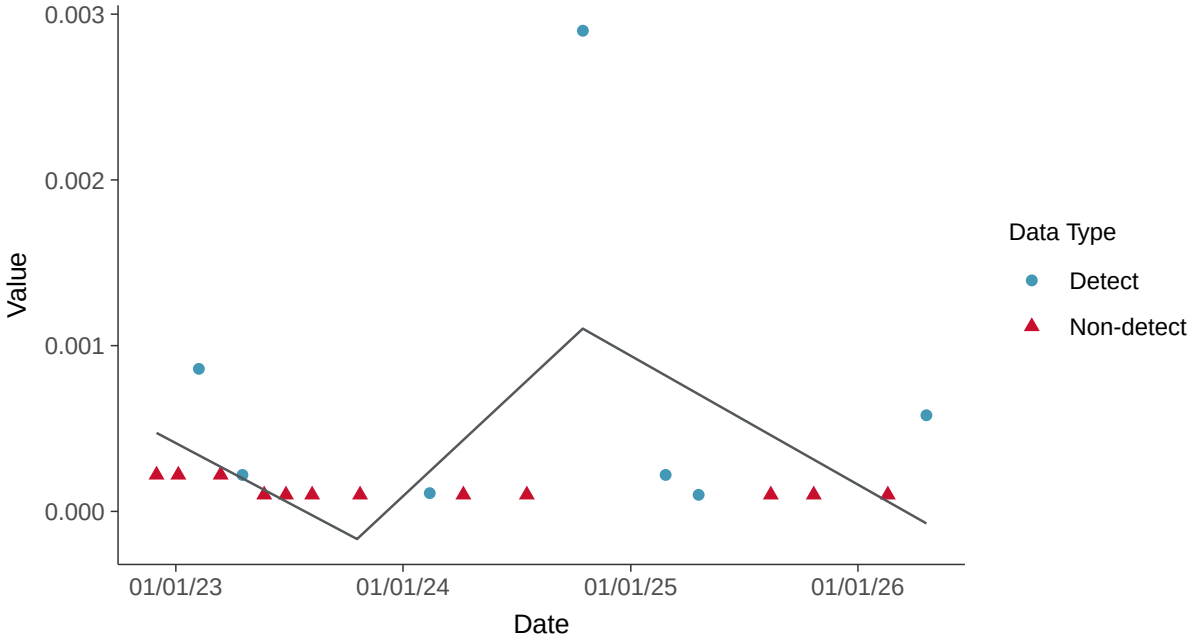
Trend Regression: Piecewise Linear-Linear

Lead, MW-08 (mg/L)



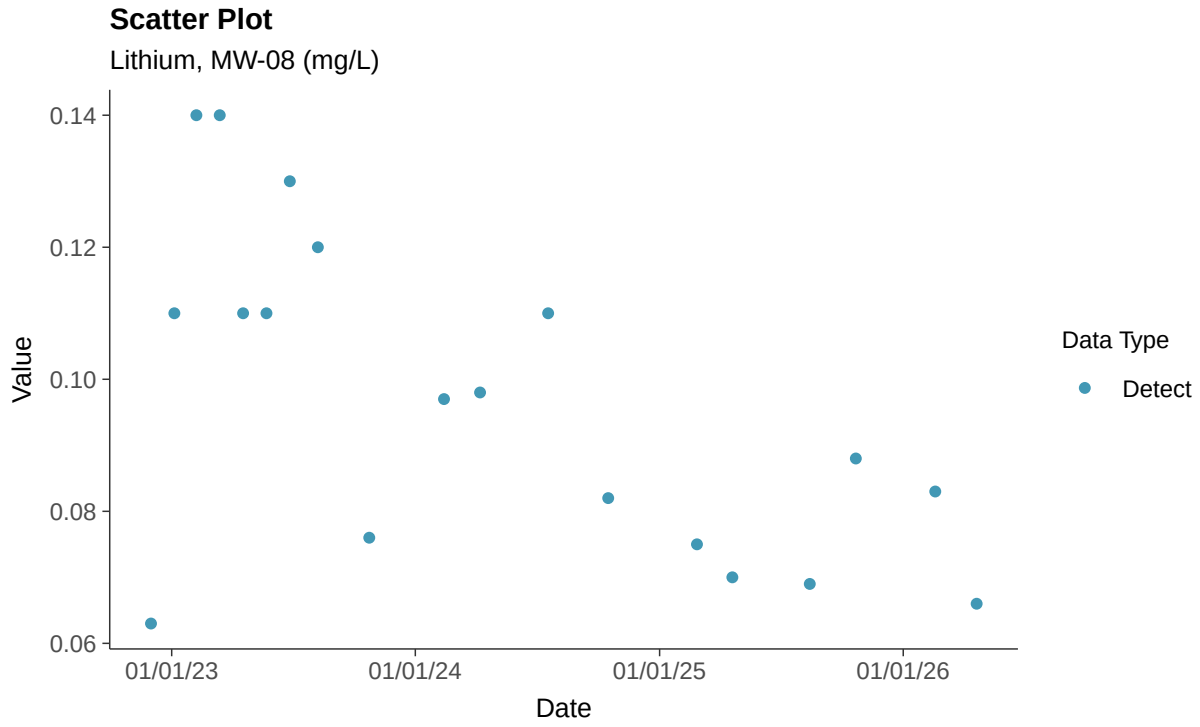
Trend Regression: Piecewise Linear-Linear-Linear

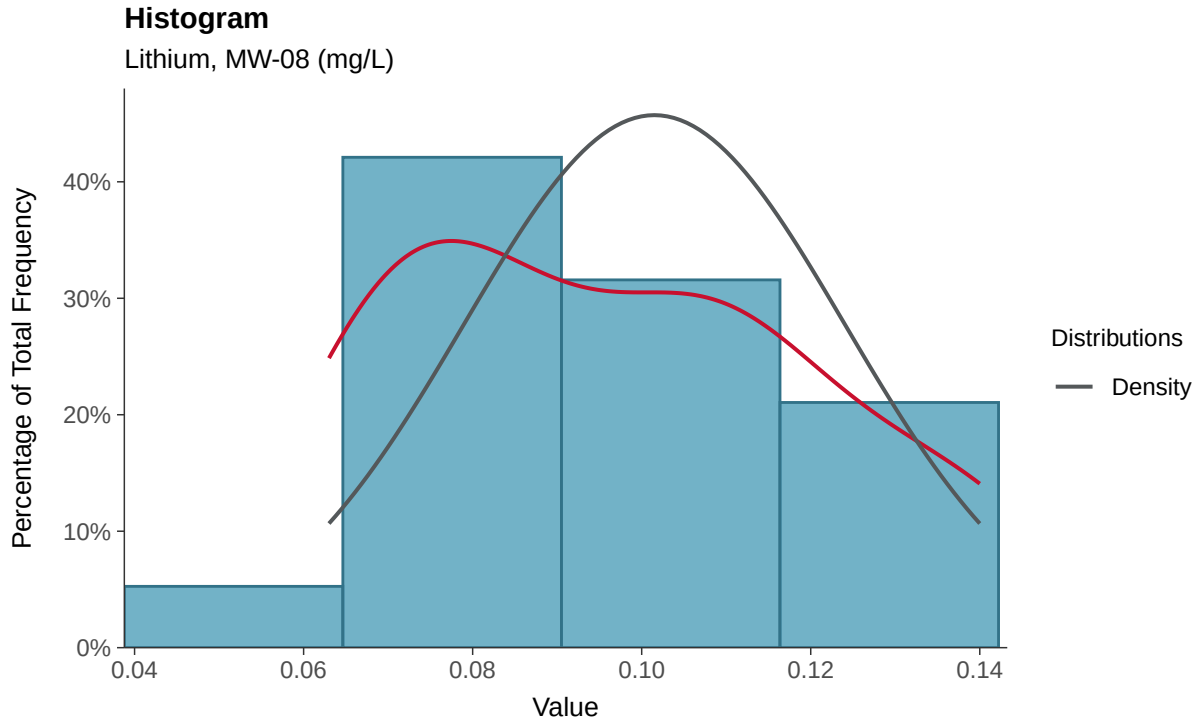
Lead, MW-08 (mg/L)



Appendix IV: Lithium, MW-08

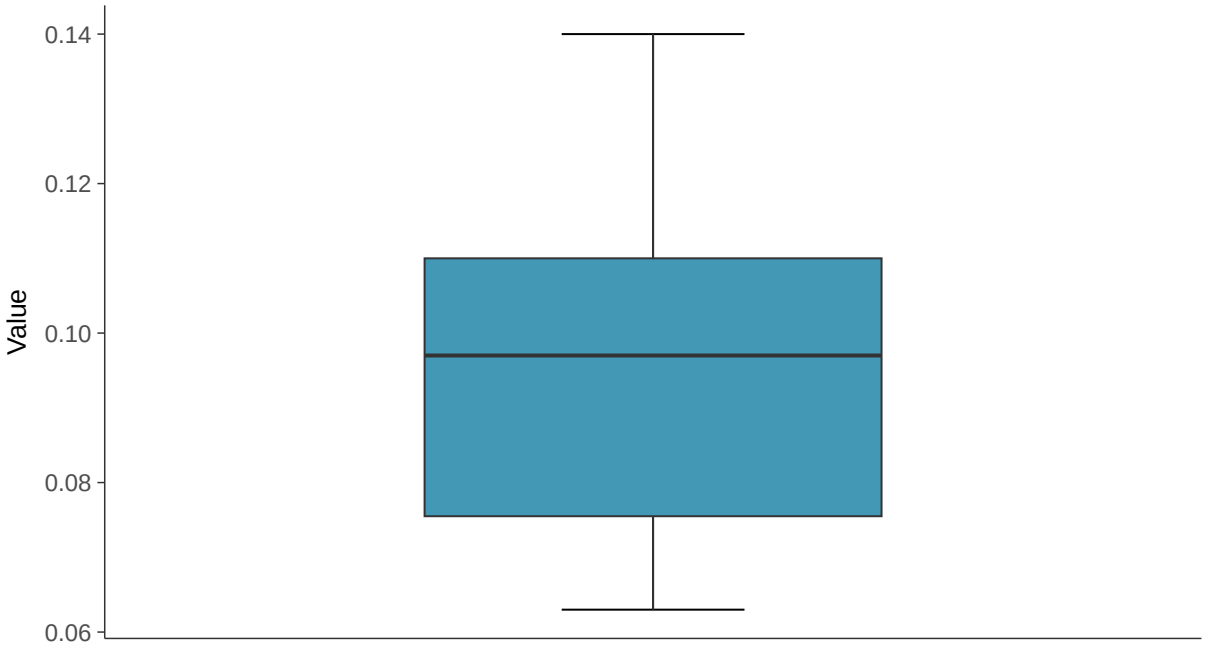
ID: 18_1_4_116





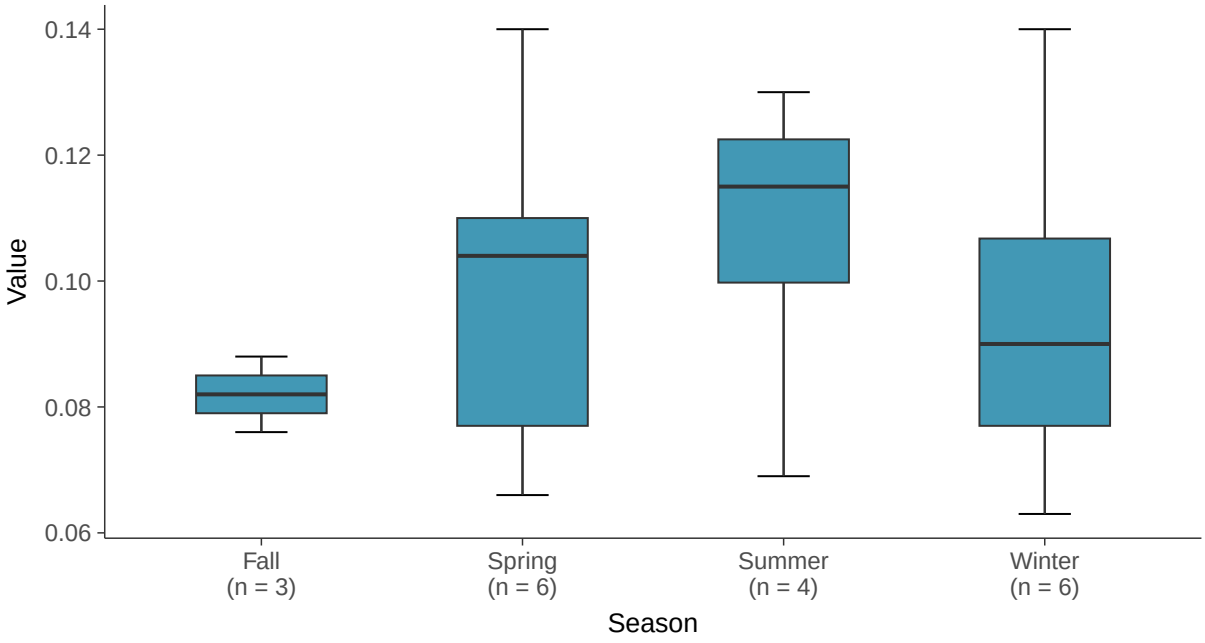
Boxplot

Lithium, MW-08 (mg/L)



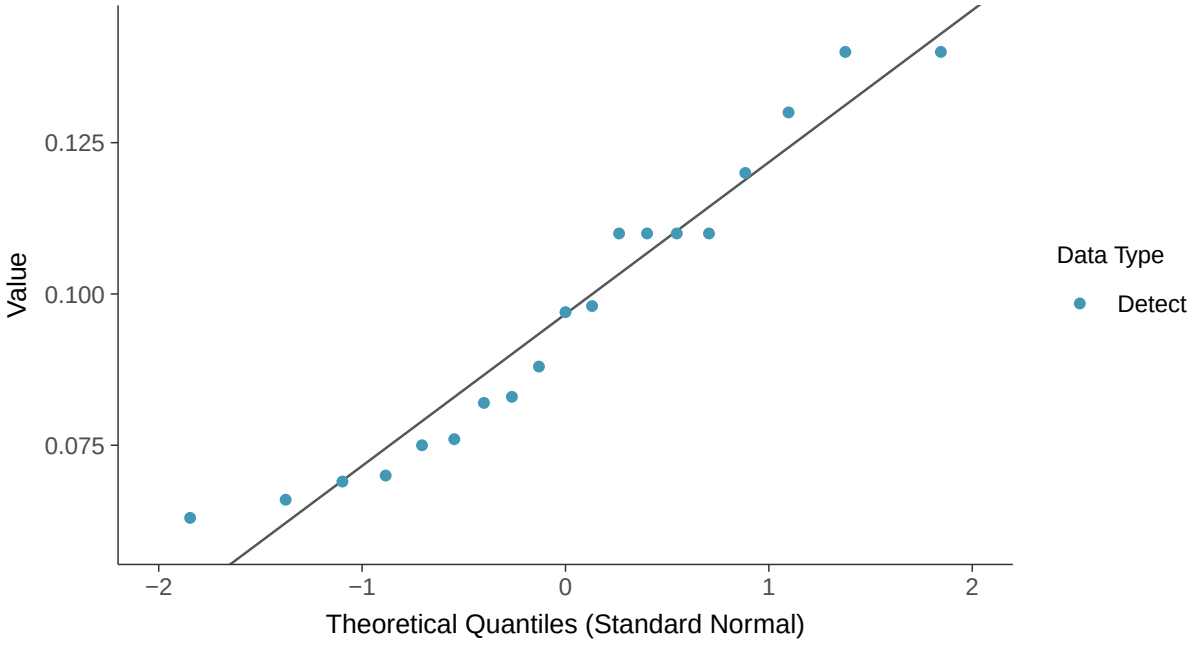
Boxplot by Season

Lithium, MW-08 (mg/L)



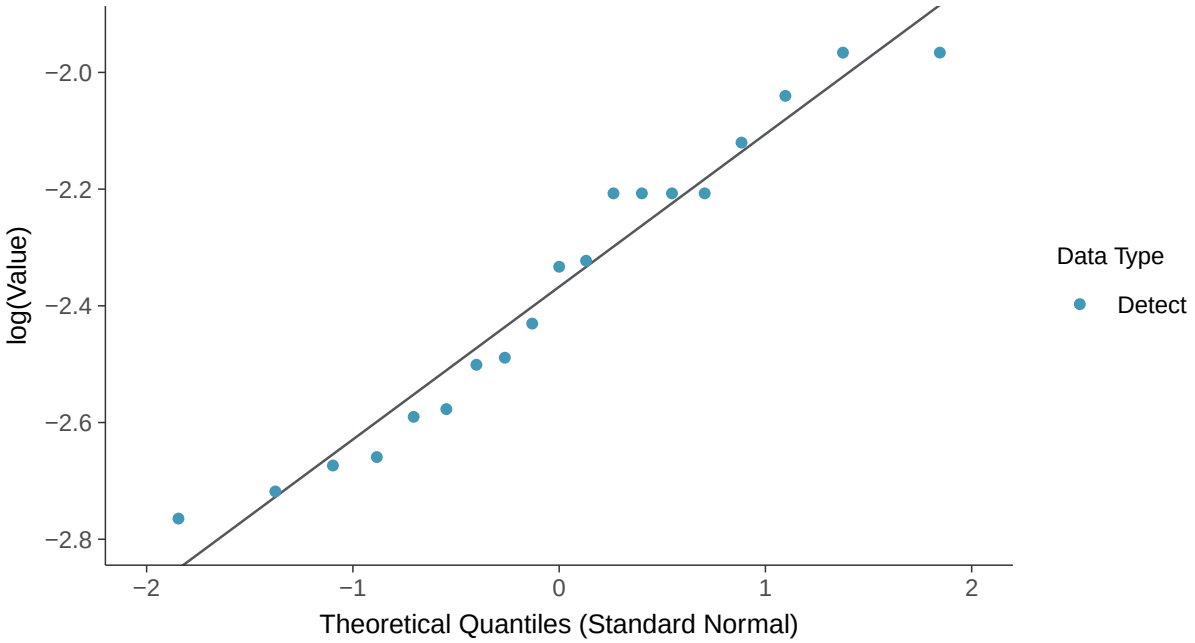
Normal Q-Q plot

Lithium, MW-08 (mg/L)



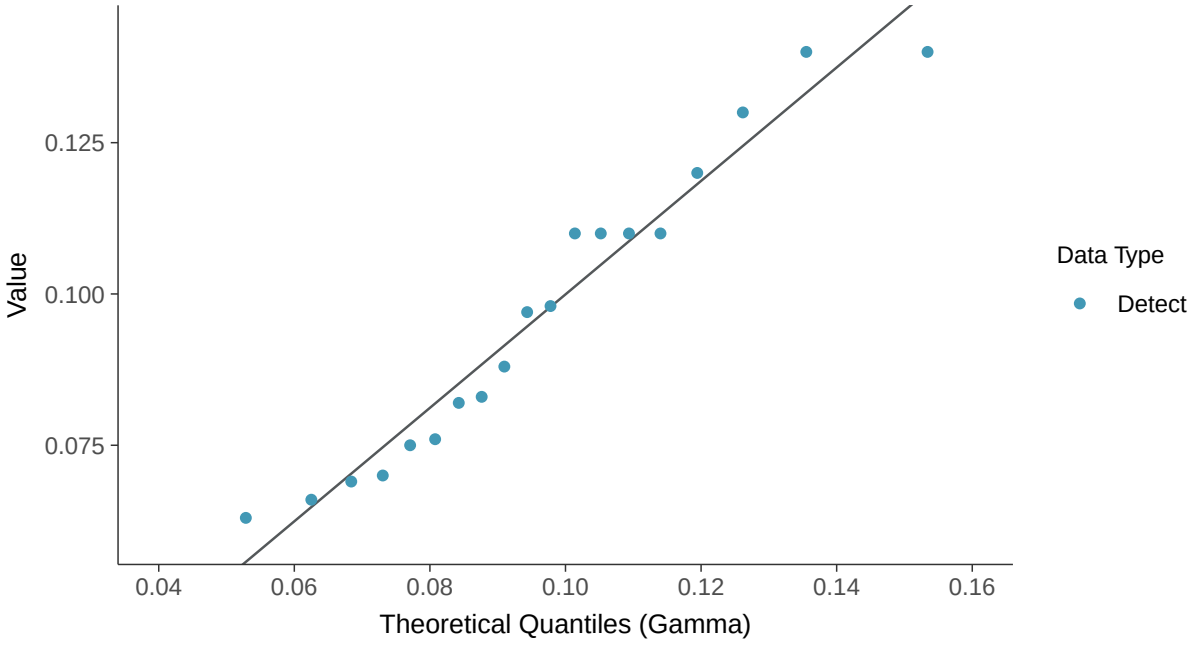
Lognormal Q-Q plot

Lithium, MW-08 (mg/L)



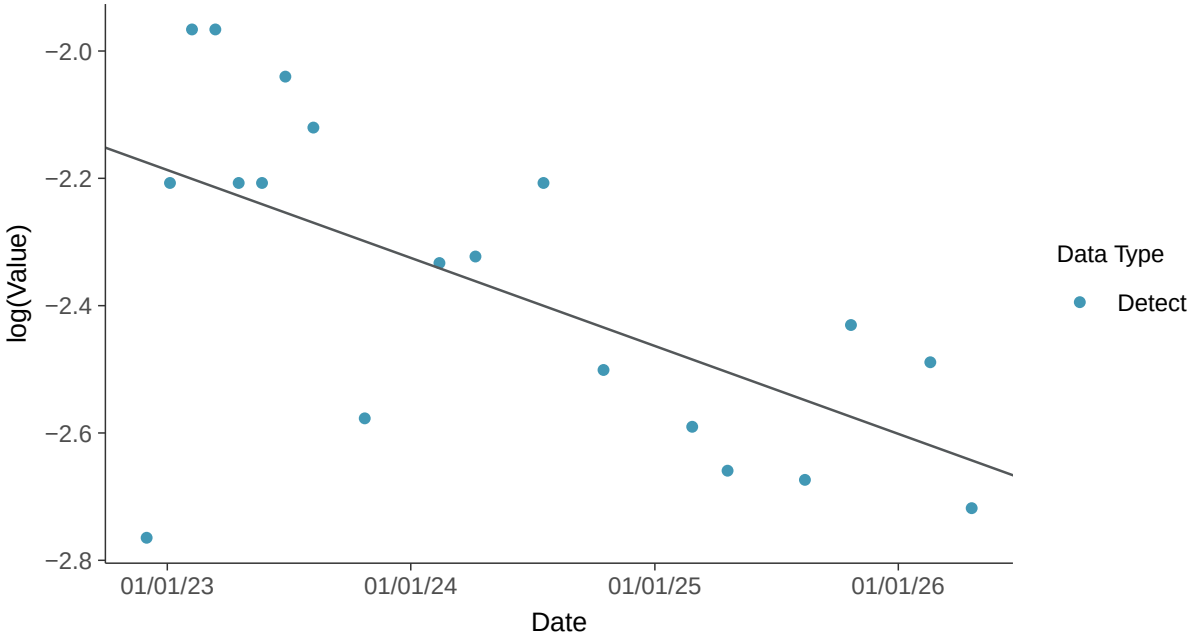
Gamma Q-Q plot

Lithium, MW-08 (mg/L)



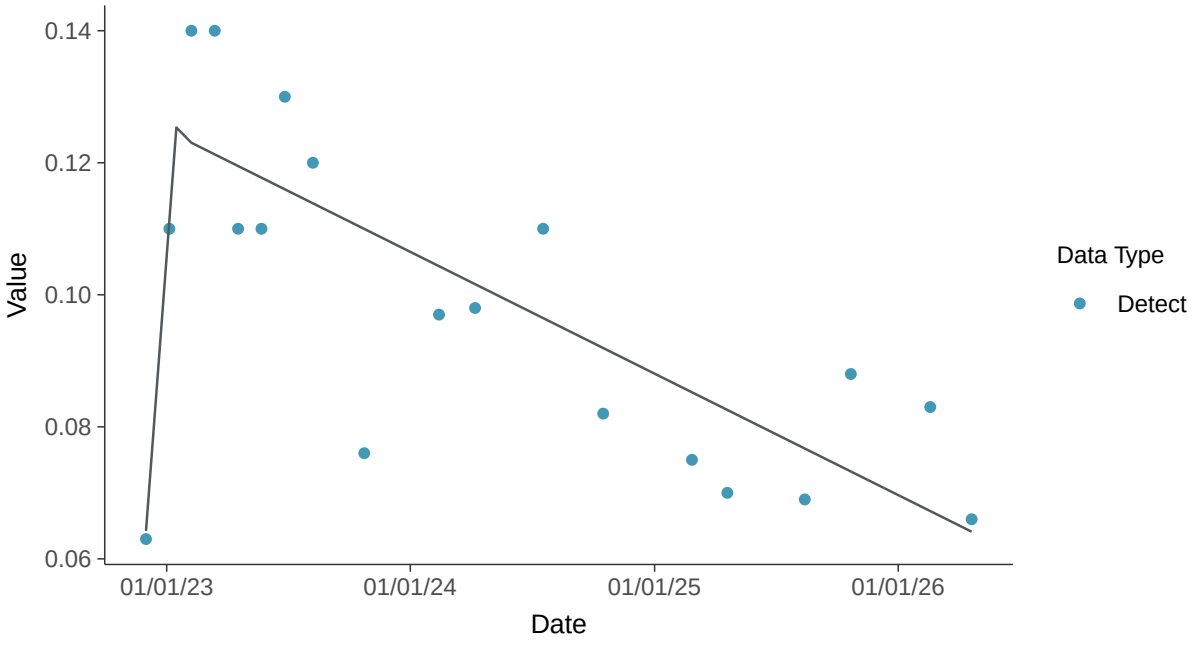
Trend Regression: Lognormal MLE

Lithium, MW-08 (mg/L)



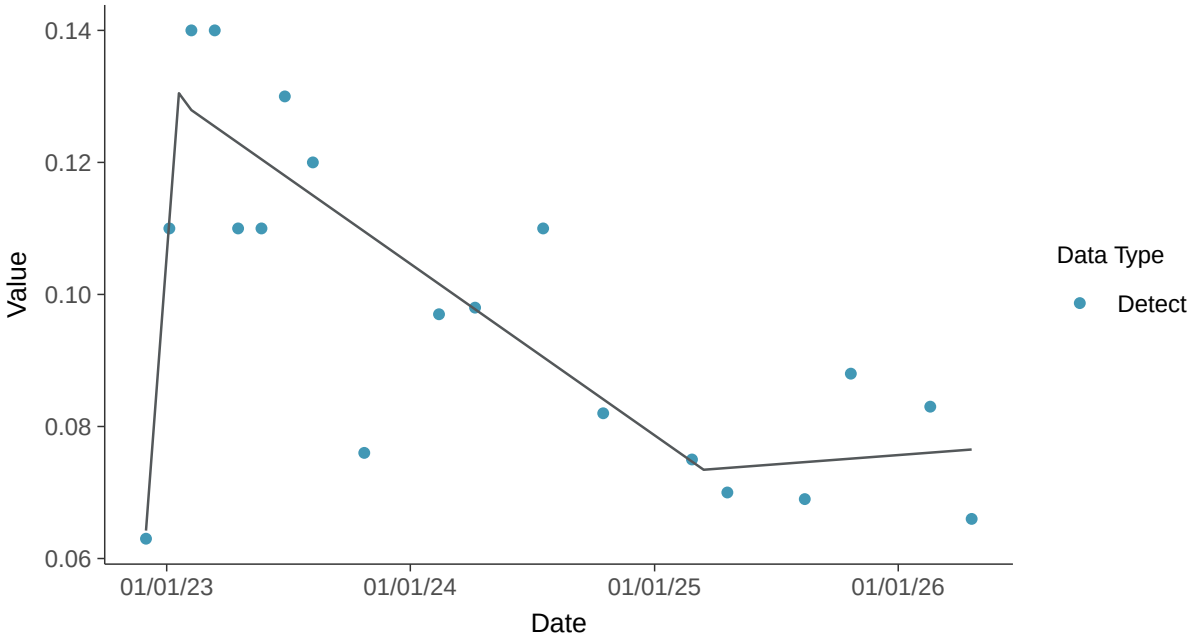
Trend Regression: Piecewise Linear-Linear

Lithium, MW-08 (mg/L)



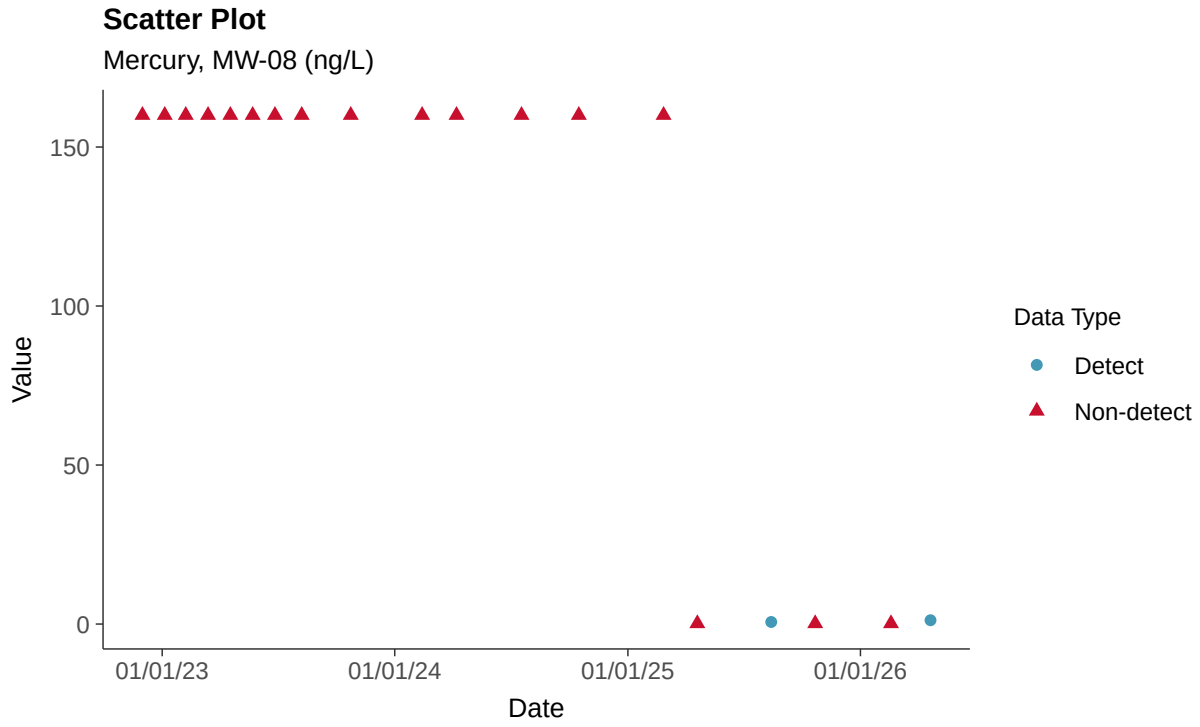
Trend Regression: Piecewise Linear-Linear-Linear

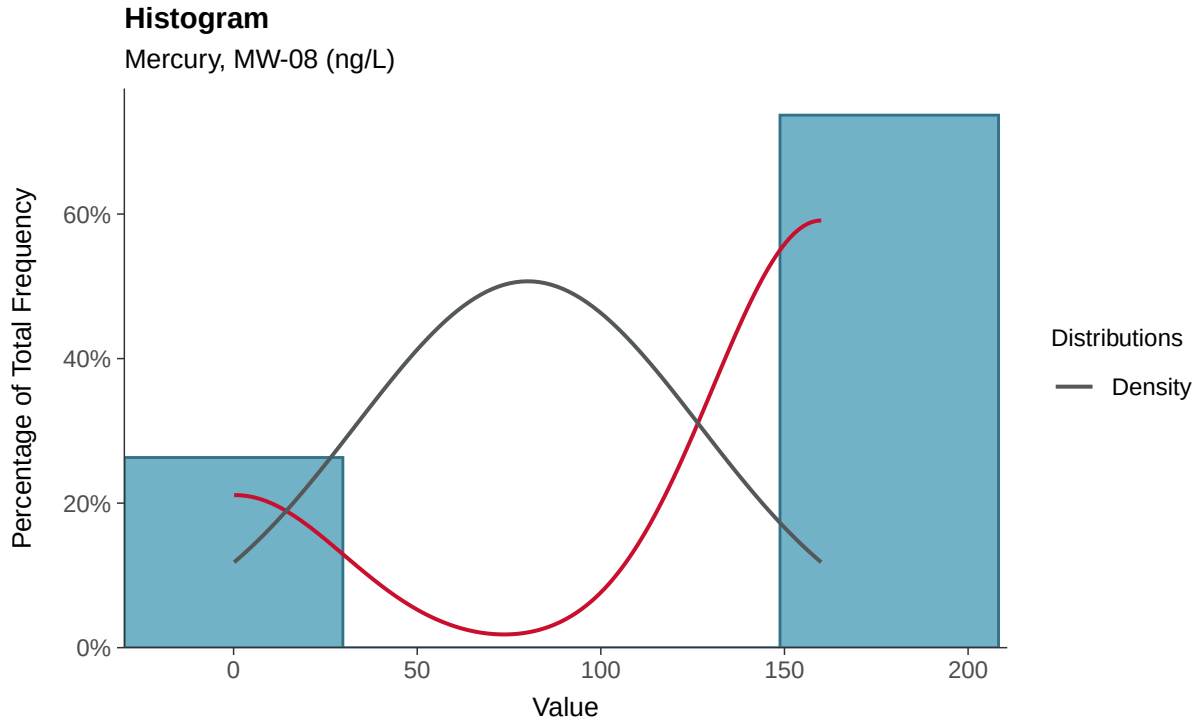
Lithium, MW-08 (mg/L)



Appendix IV: Mercury, MW-08

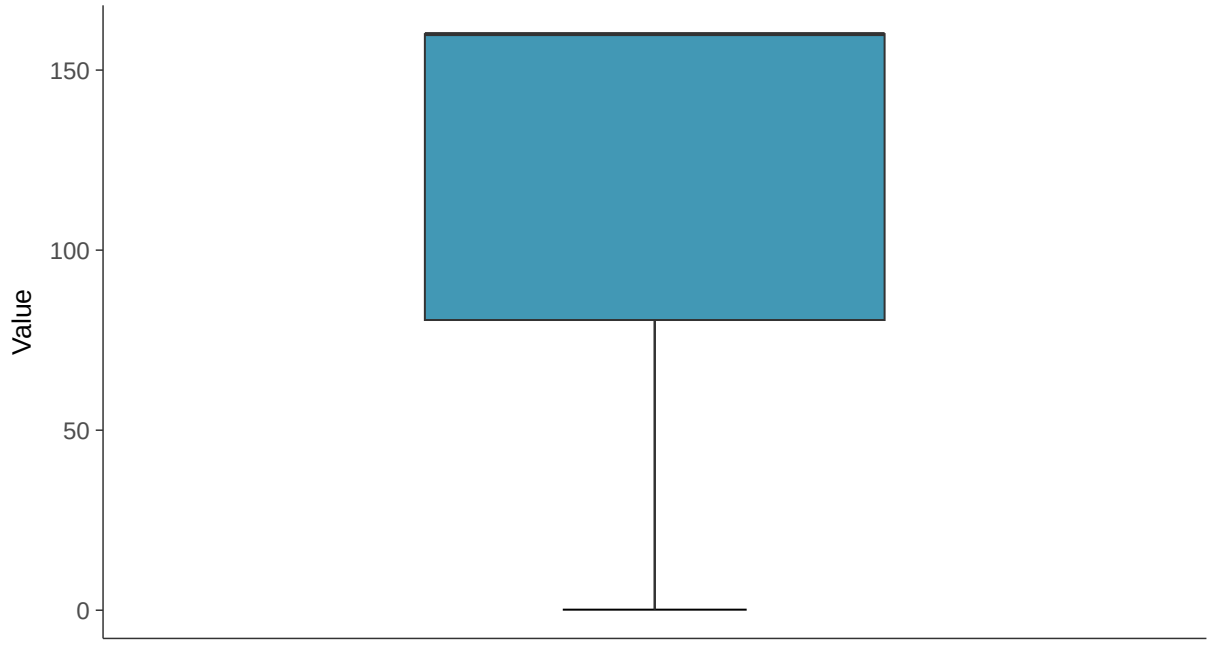
ID: 18_1_4_117





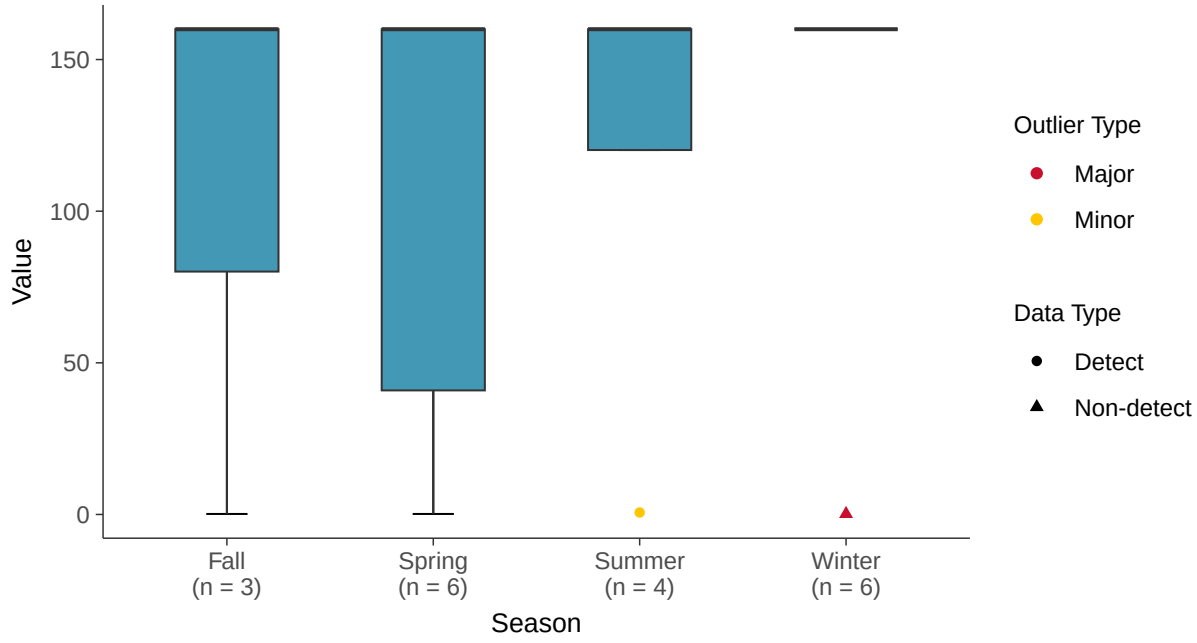
Boxplot

Mercury, MW-08 (ng/L)



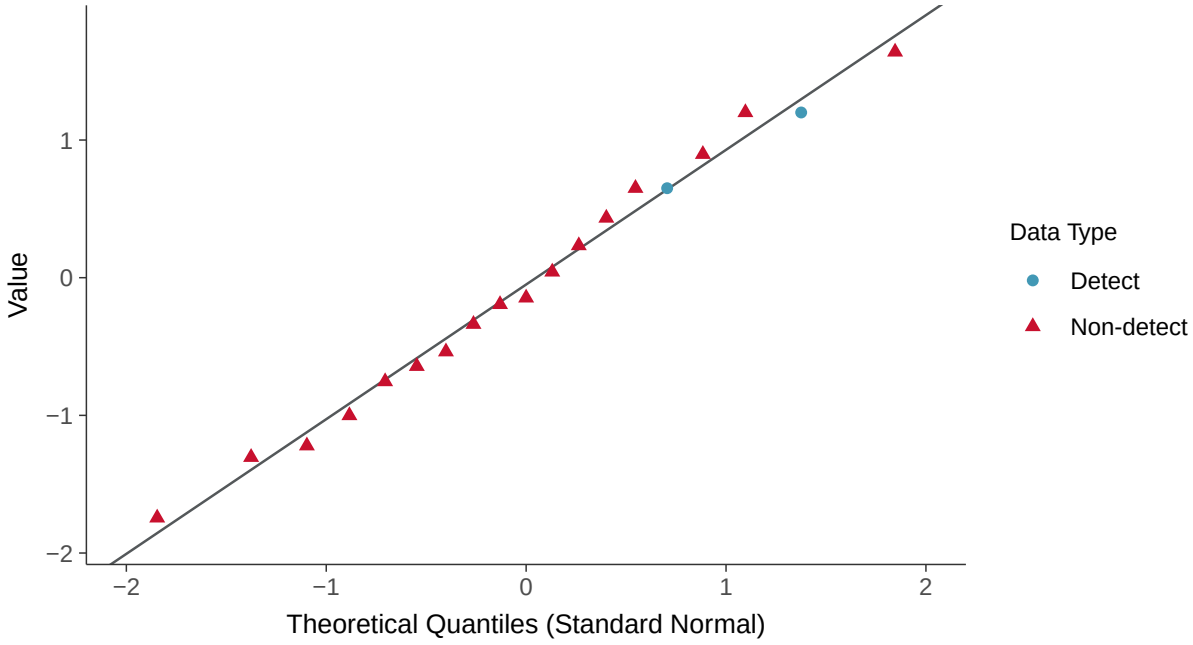
Boxplot by Season

Mercury, MW-08 (ng/L)



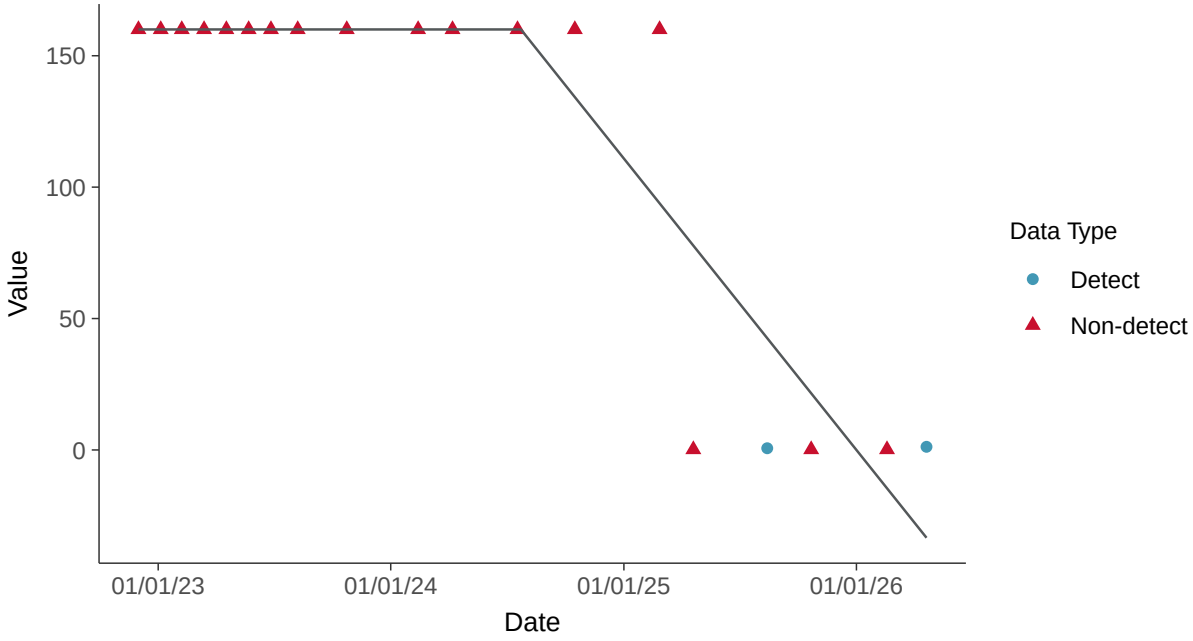
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-08 (ng/L)



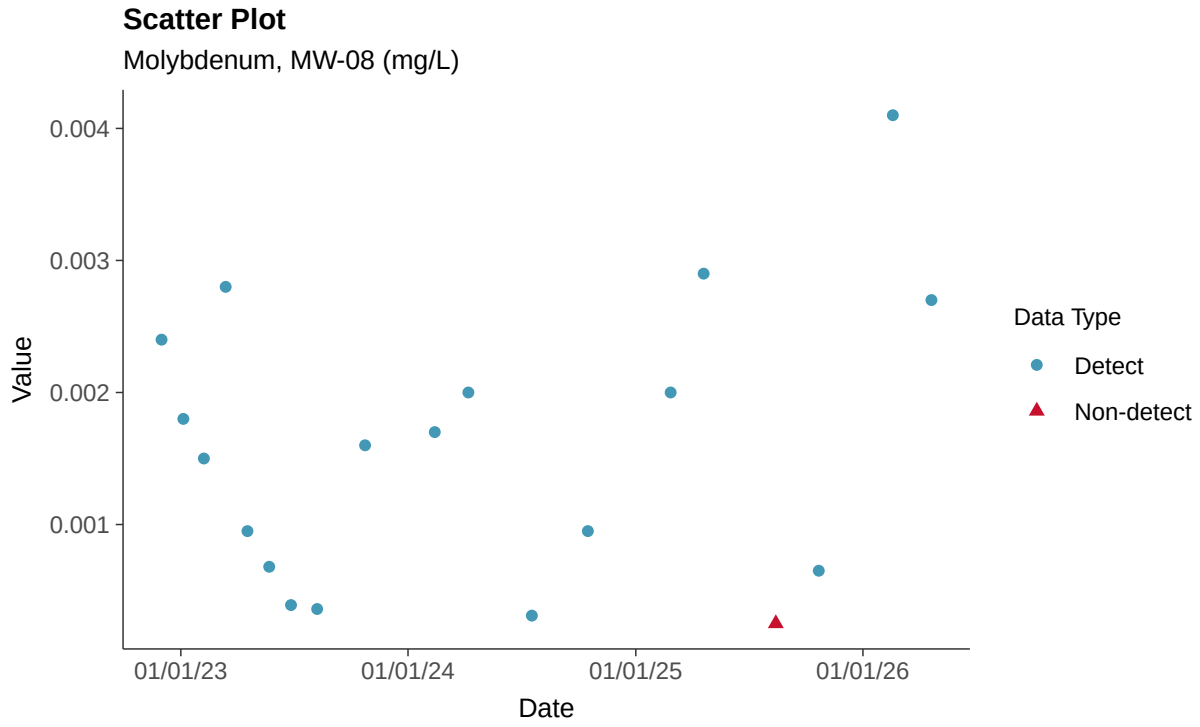
Trend Regression: Piecewise Linear-Linear

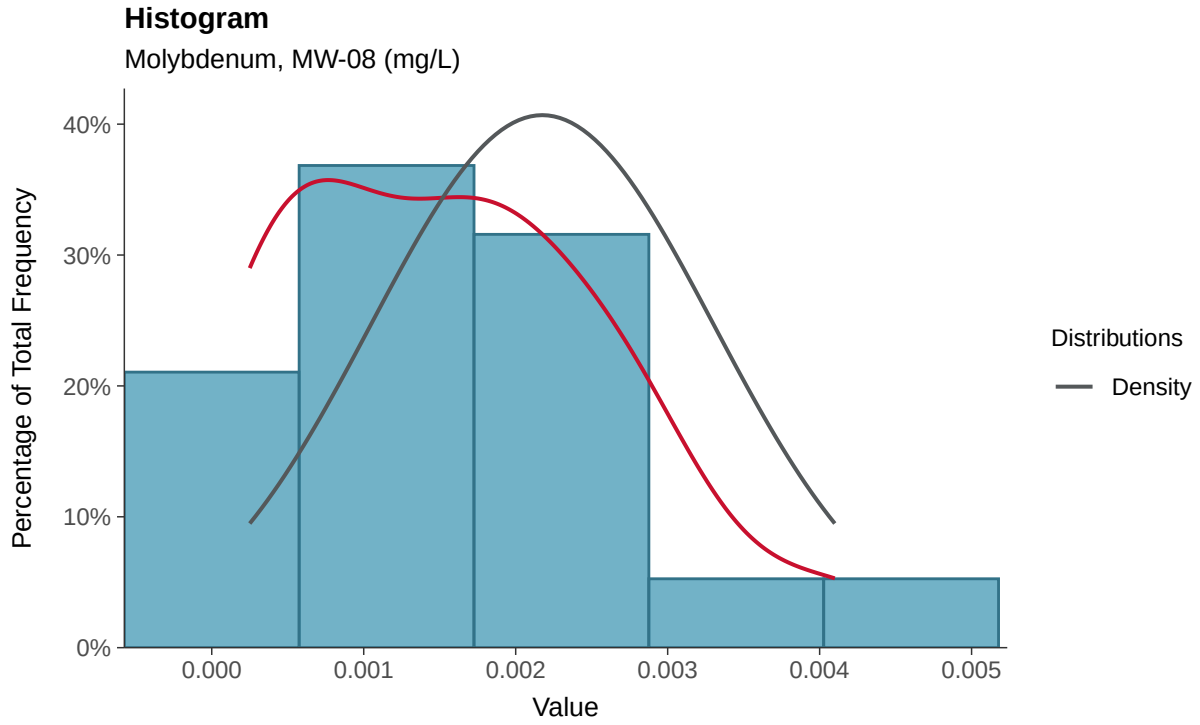
Mercury, MW-08 (ng/L)



Appendix IV: Molybdenum, MW-08

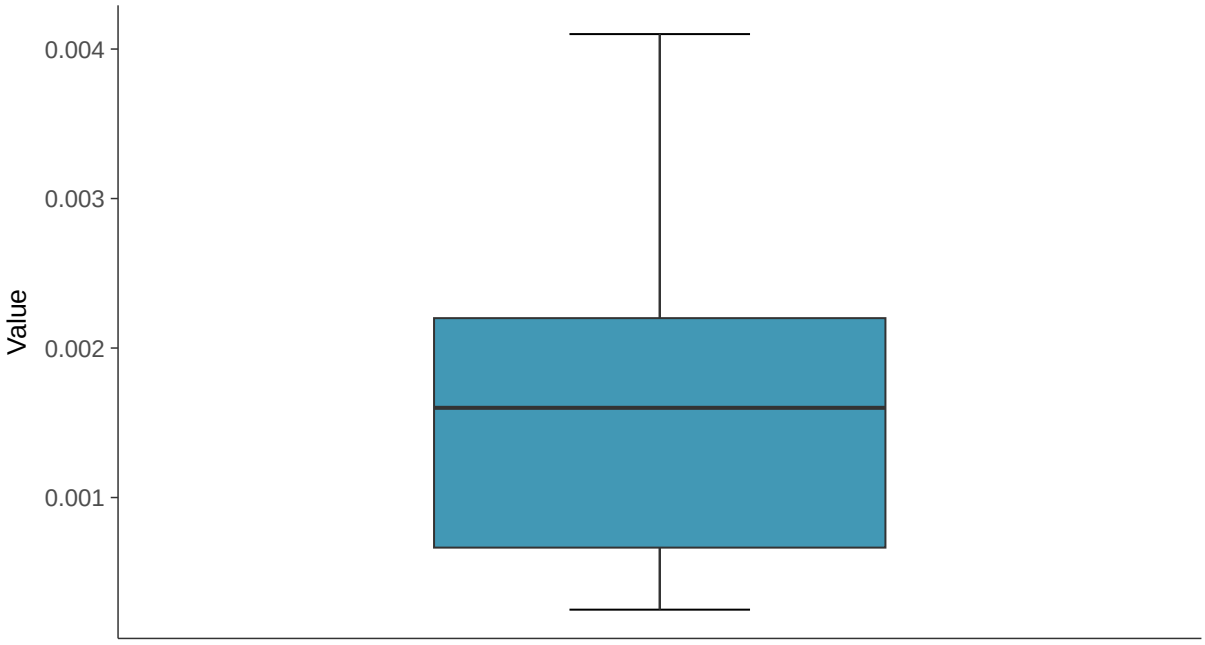
ID: 18_1_4_118





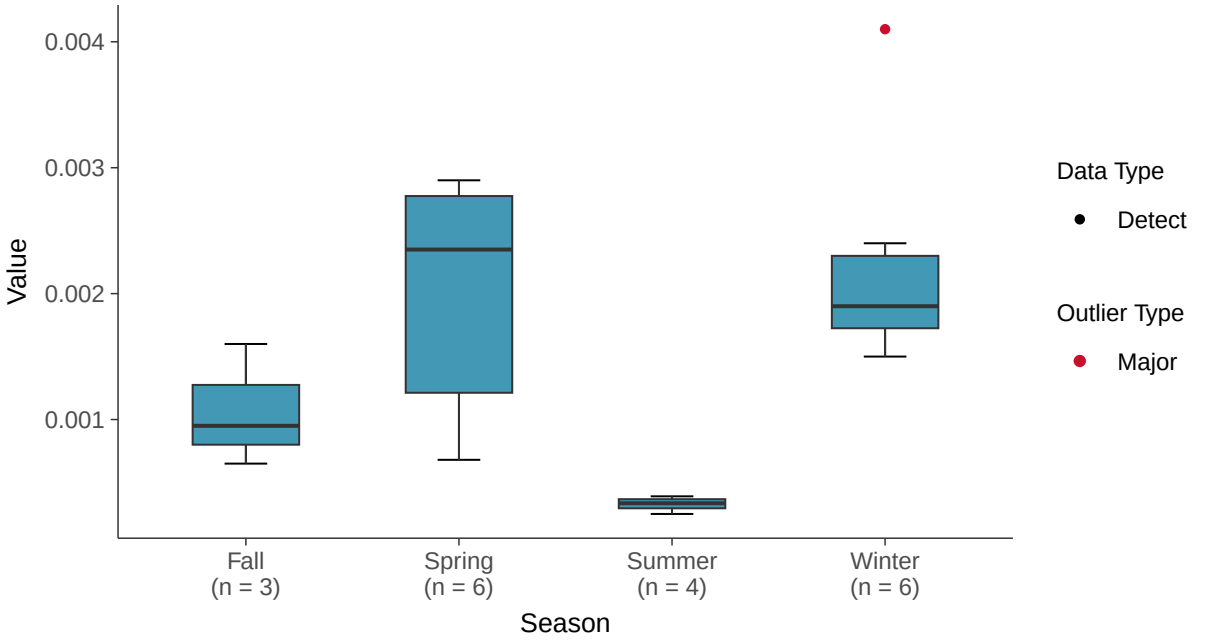
Boxplot

Molybdenum, MW-08 (mg/L)



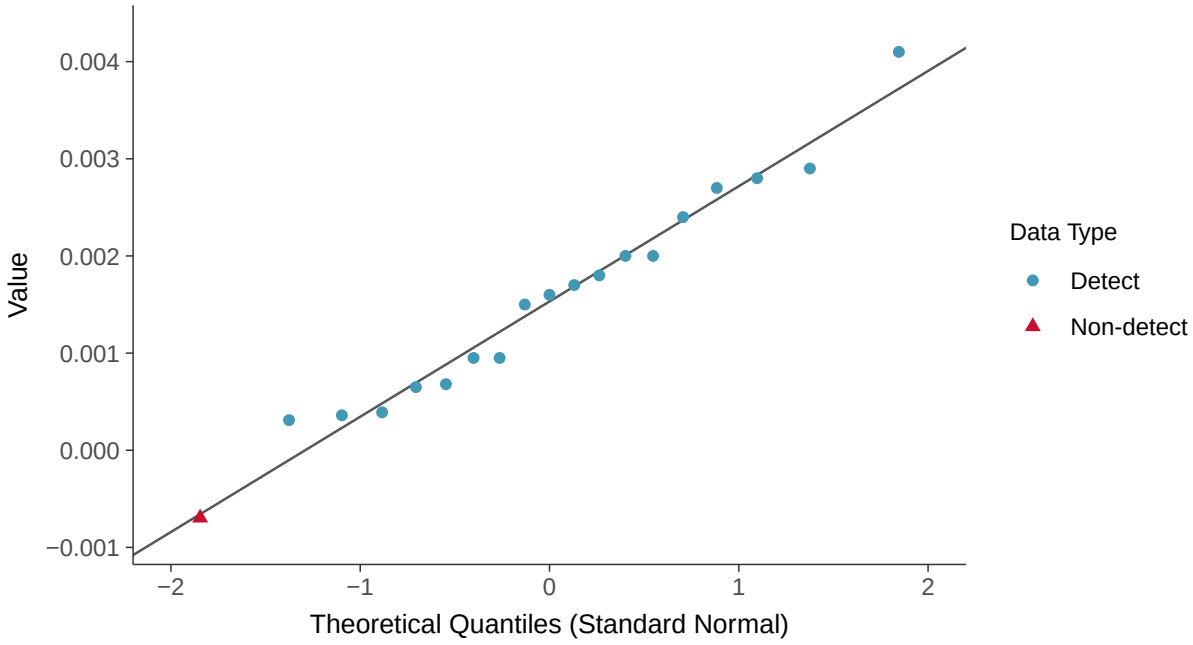
Boxplot by Season

Molybdenum, MW-08 (mg/L)



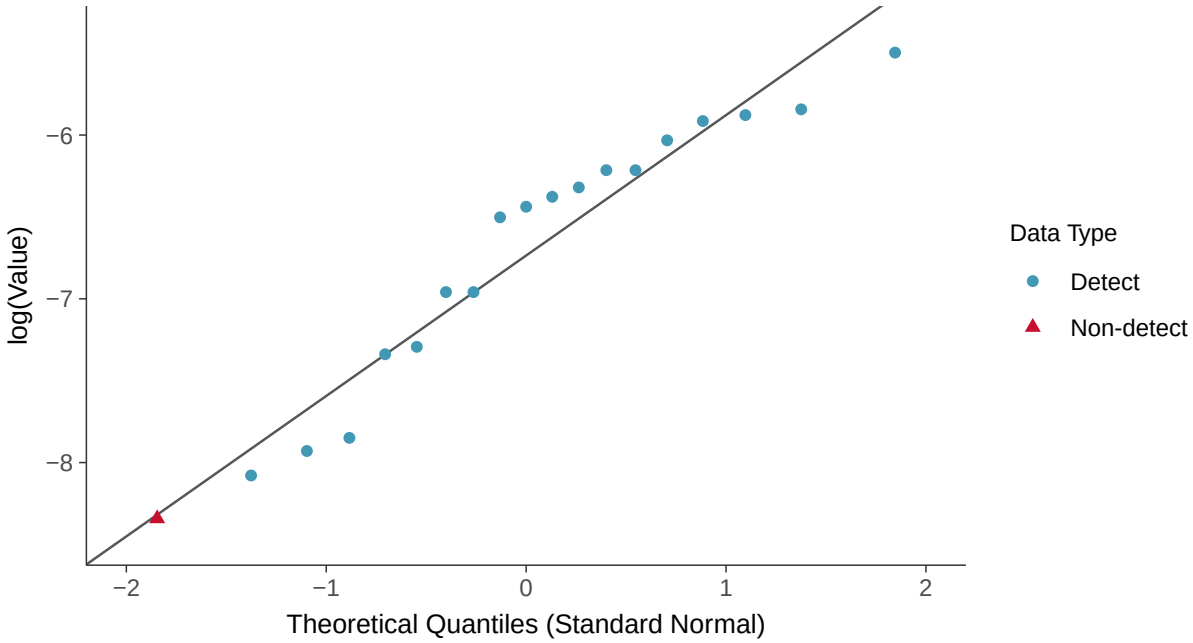
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-08 (mg/L)



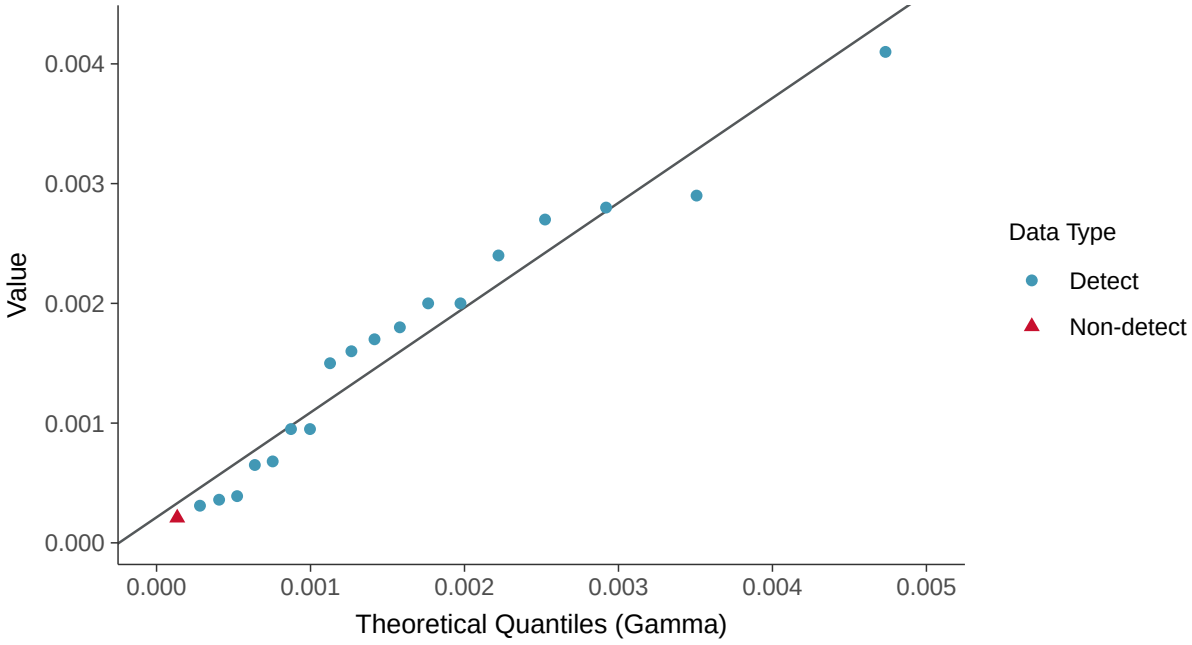
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-08 (mg/L)



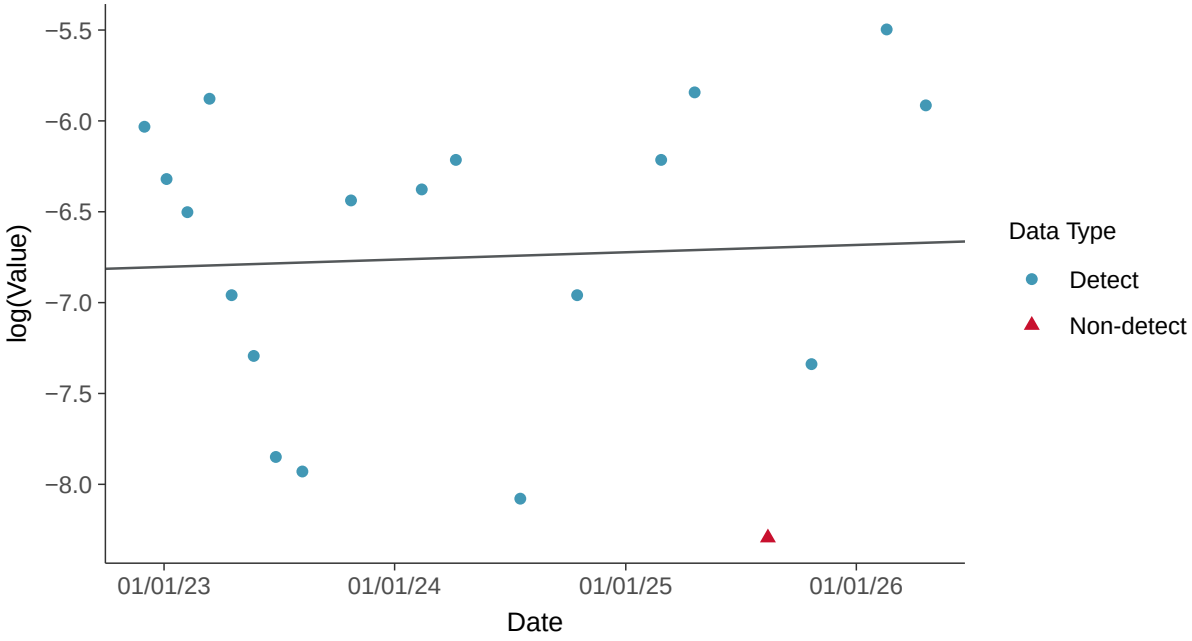
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-08 (mg/L)



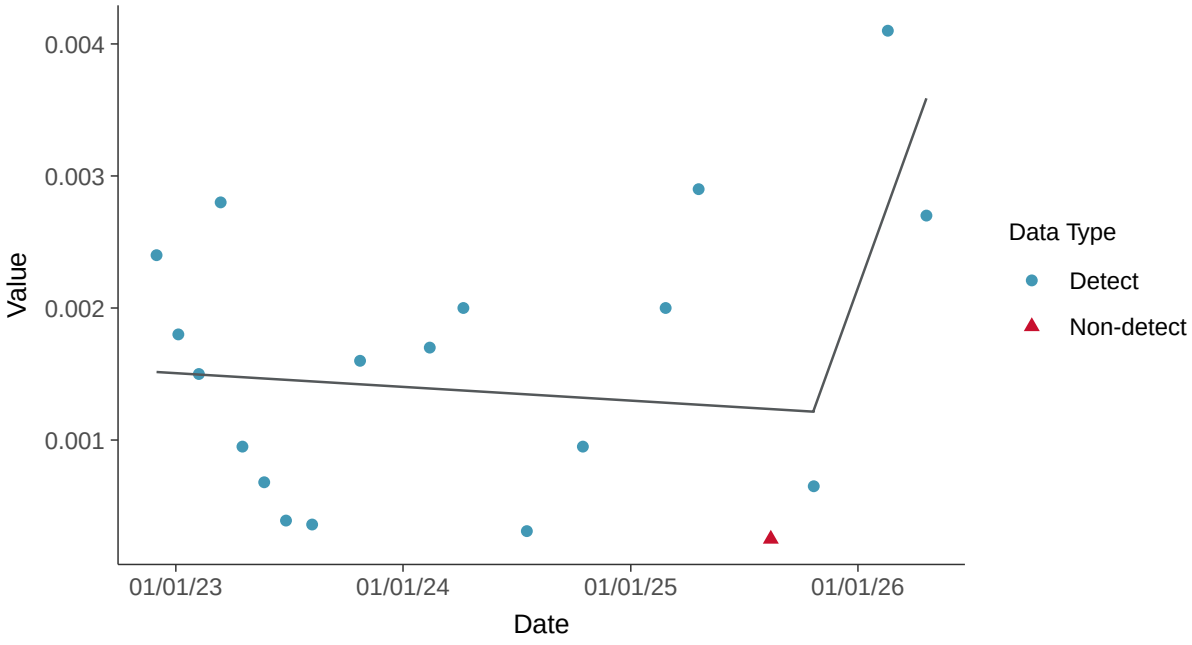
Trend Regression: Lognormal MLE

Molybdenum, MW-08 (mg/L)



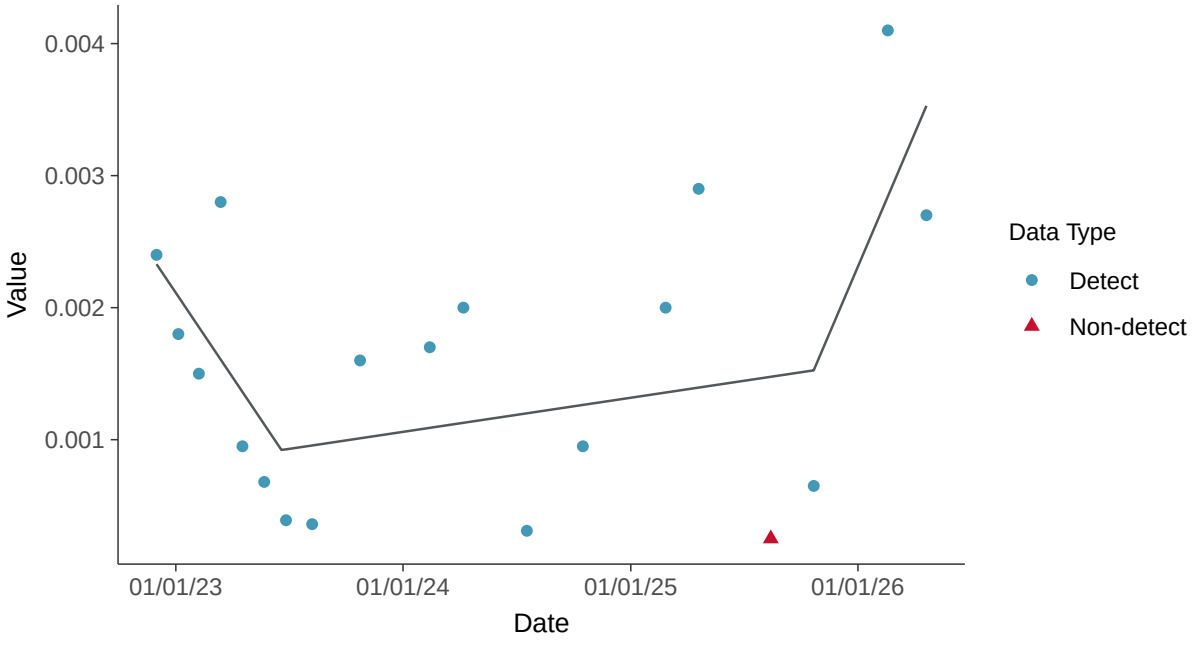
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-08 (mg/L)

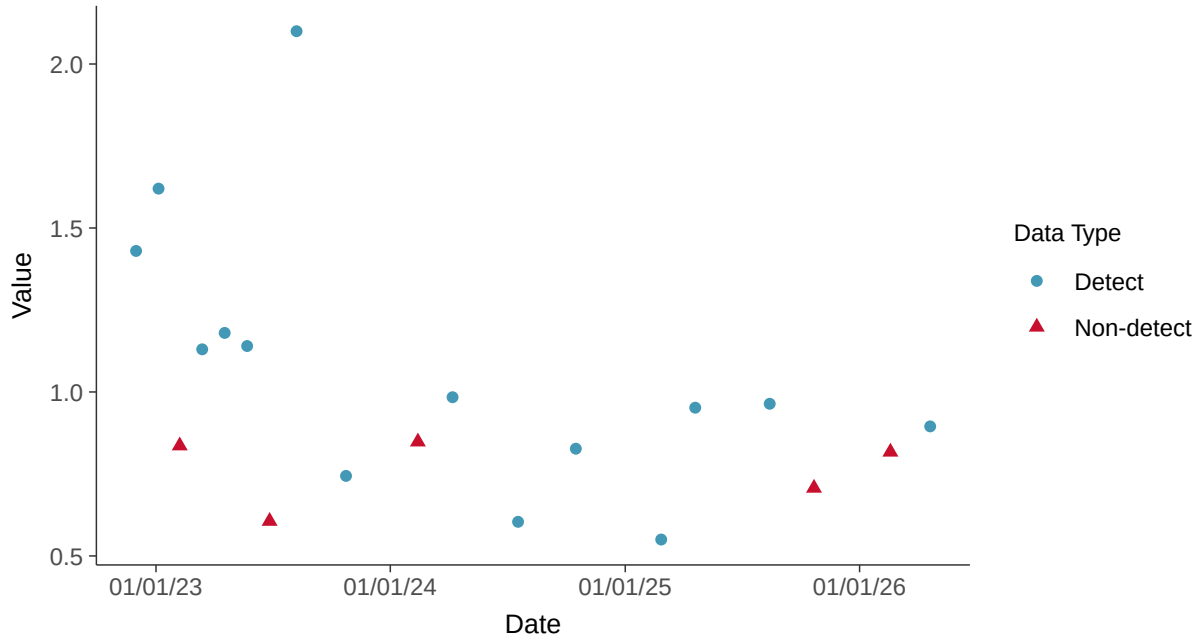


Appendix IV: Radium 226 and 228, MW-08

ID: 18_1_4_121

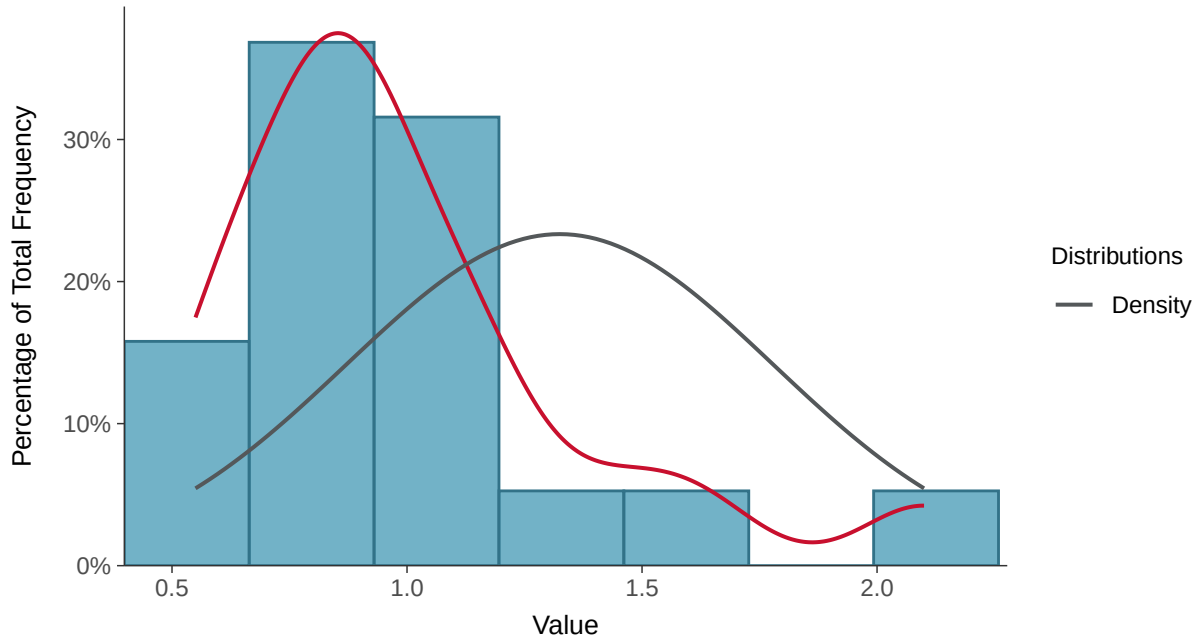
Scatter Plot

Radium 226 and 228, MW-08 (pCi/L)



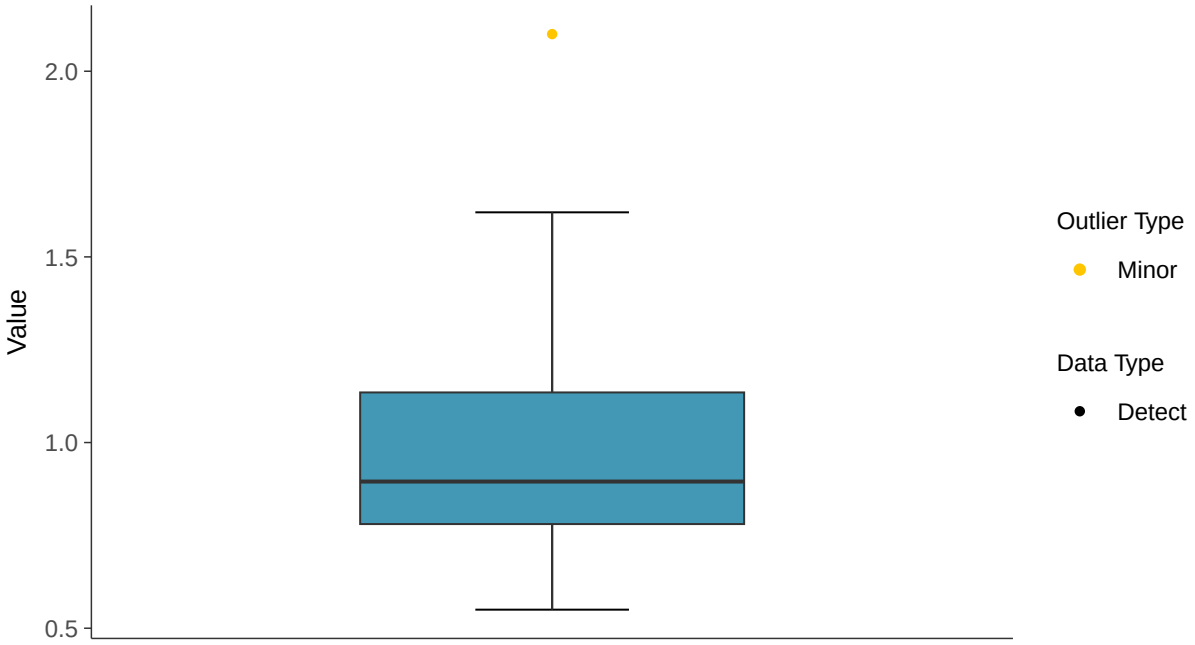
Histogram

Radium 226 and 228, MW-08 (pCi/L)



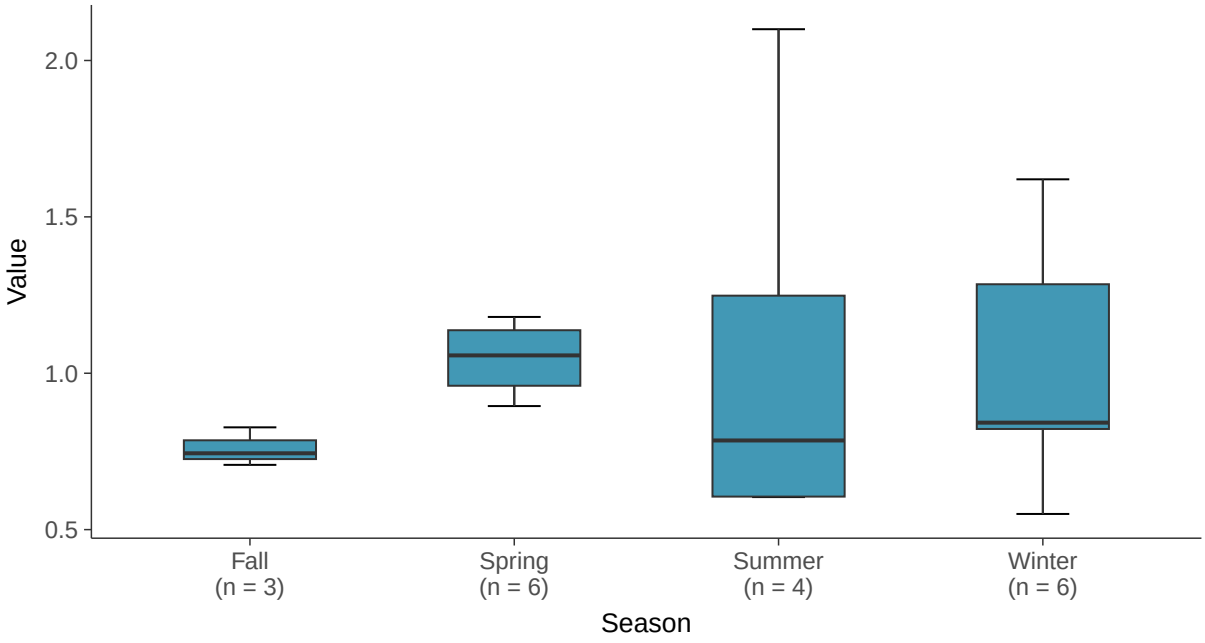
Boxplot

Radium 226 and 228, MW-08 (pCi/L)



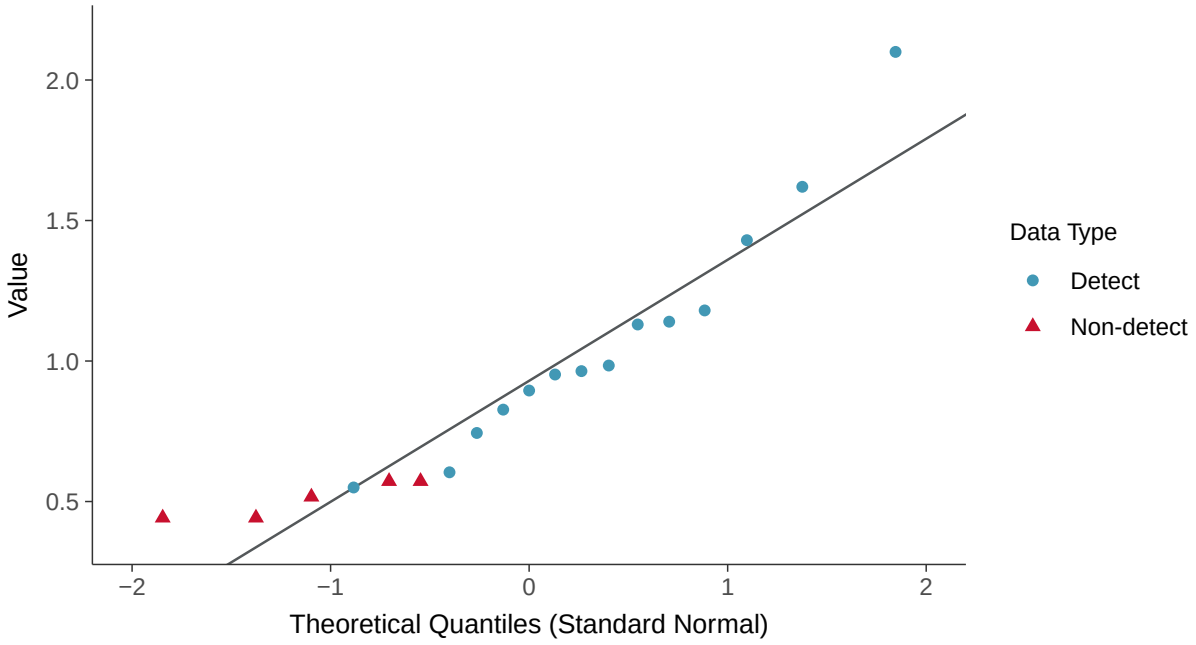
Boxplot by Season

Radium 226 and 228, MW-08 (pCi/L)



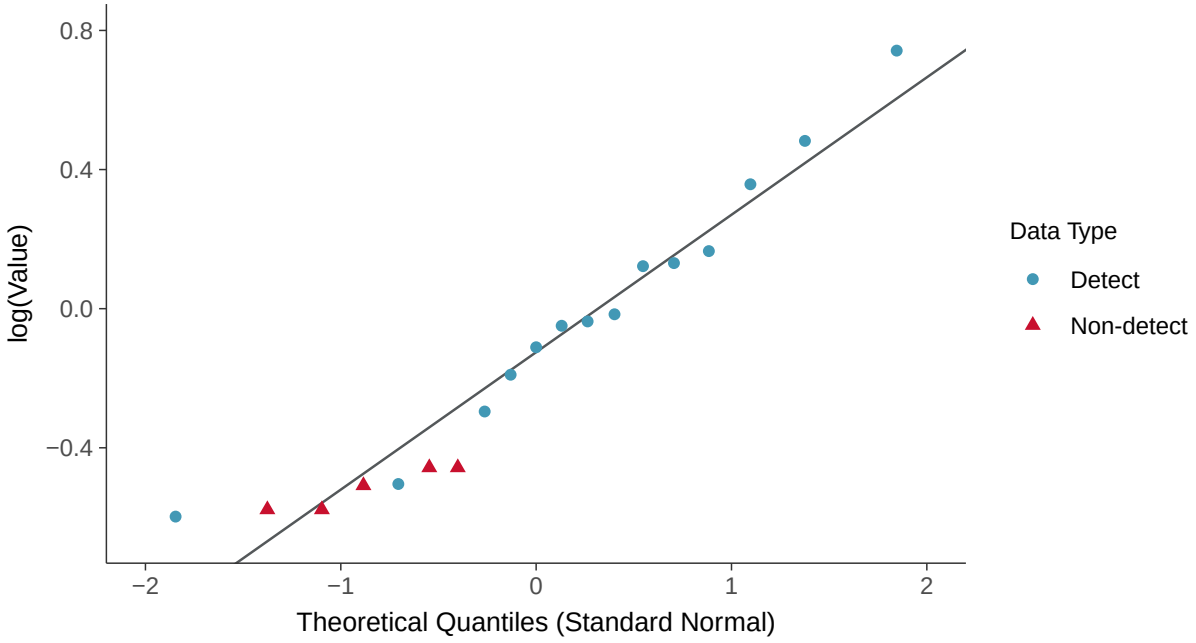
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



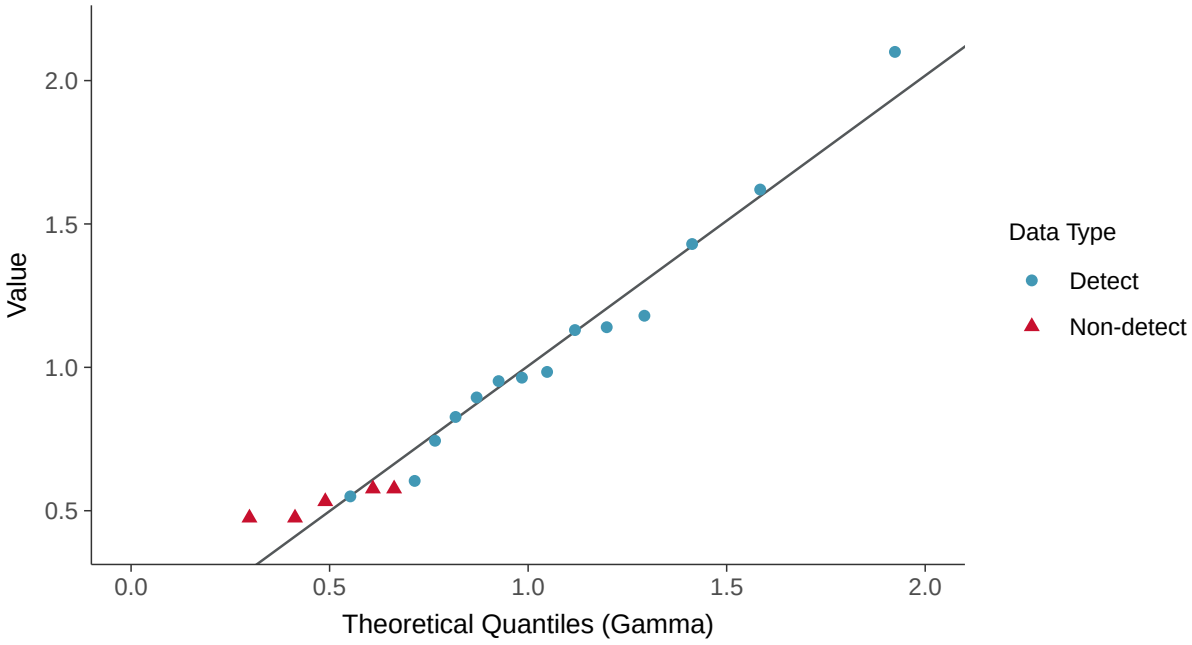
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



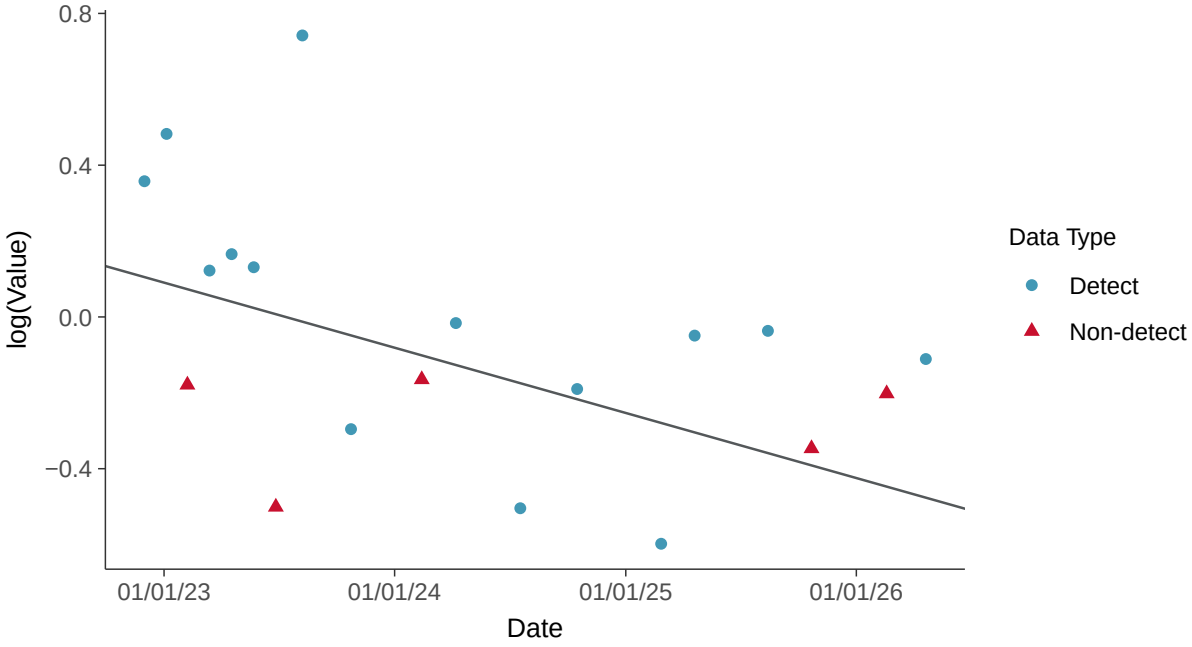
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-08 (pCi/L)



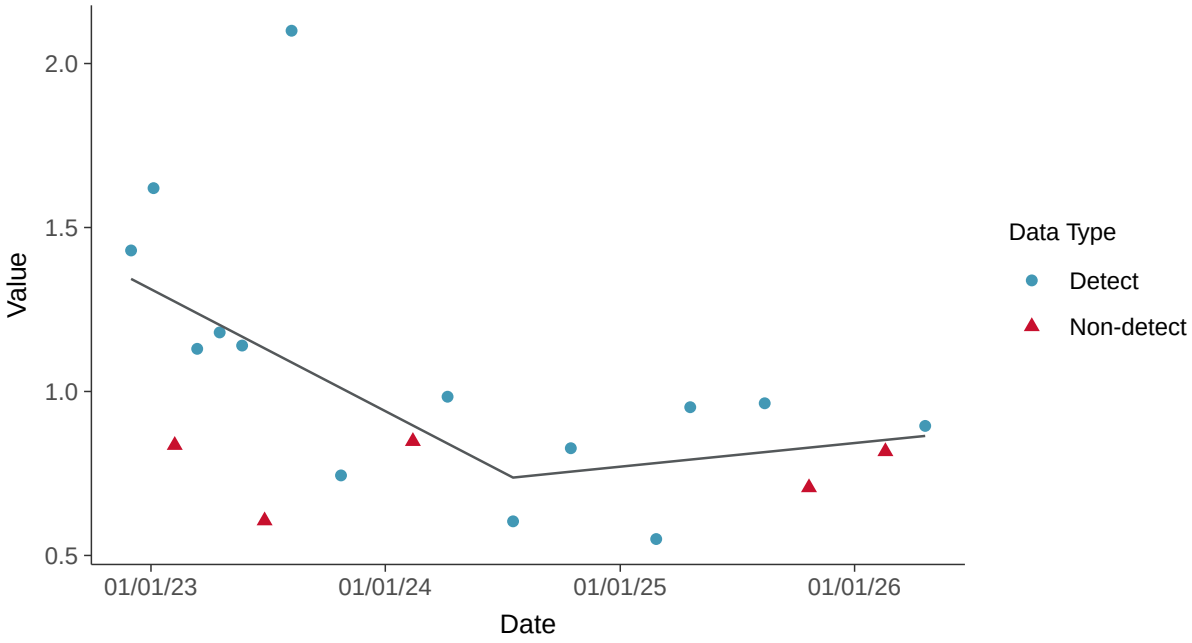
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-08 (pCi/L)



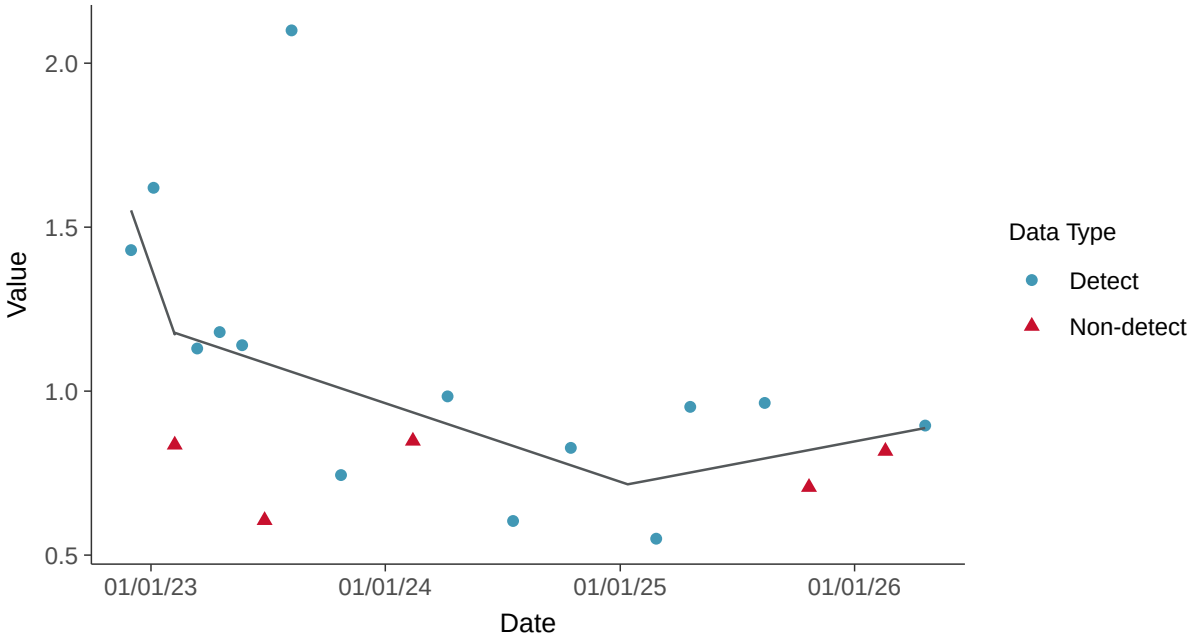
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-08 (pCi/L)



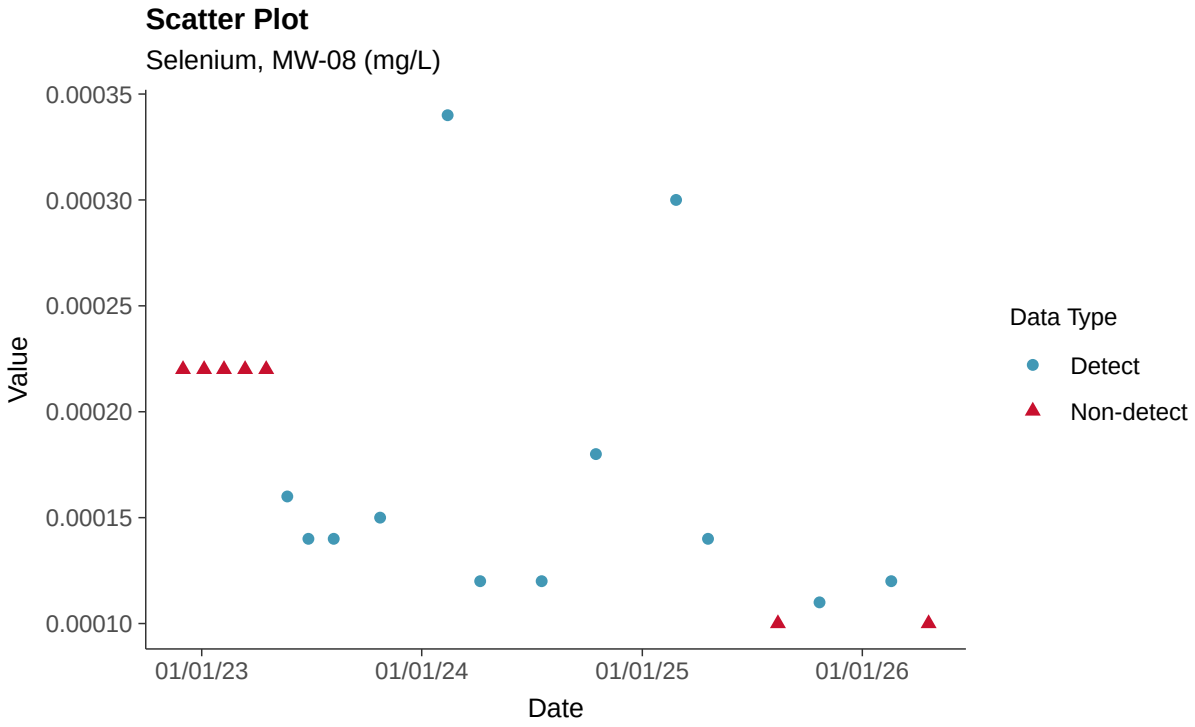
Trend Regression: Piecewise Linear-Linear-Linear

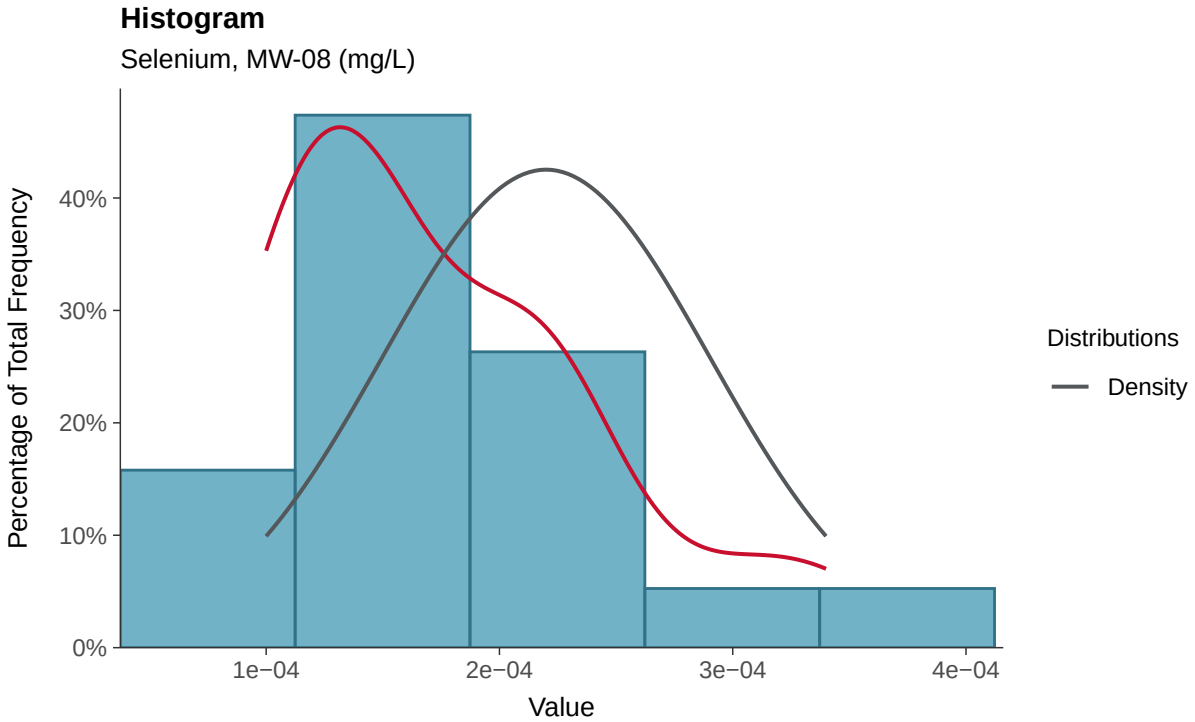
Radium 226 and 228, MW-08 (pCi/L)



Appendix IV: Selenium, MW-08

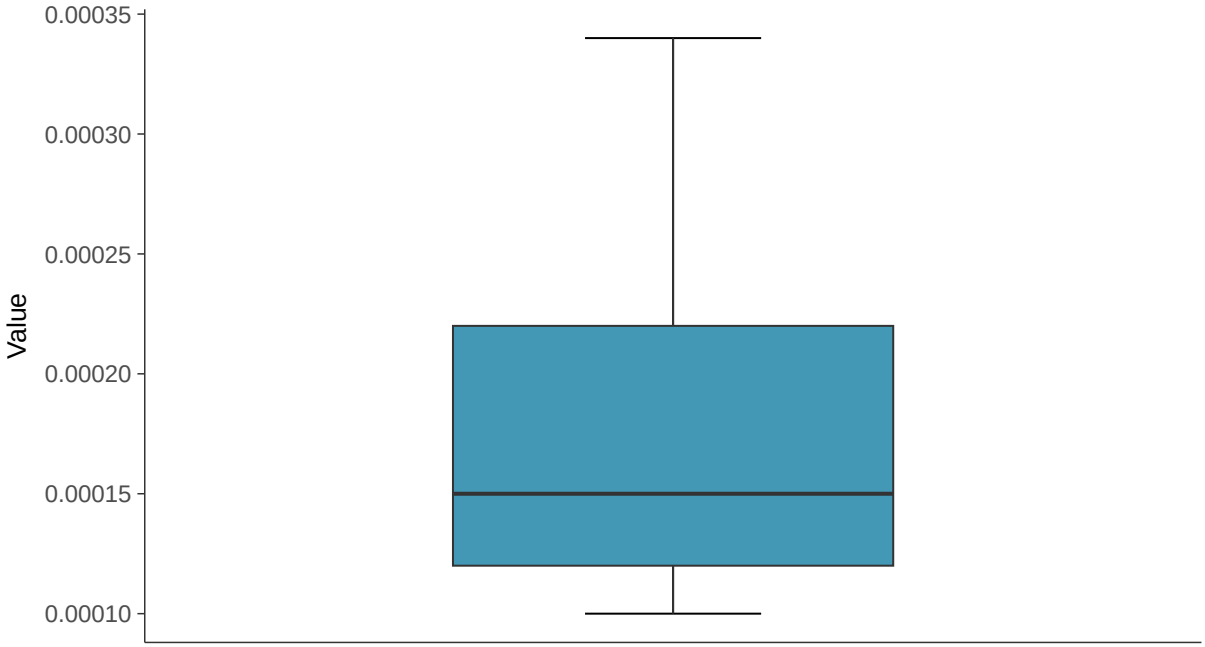
ID: 18_1_4_122





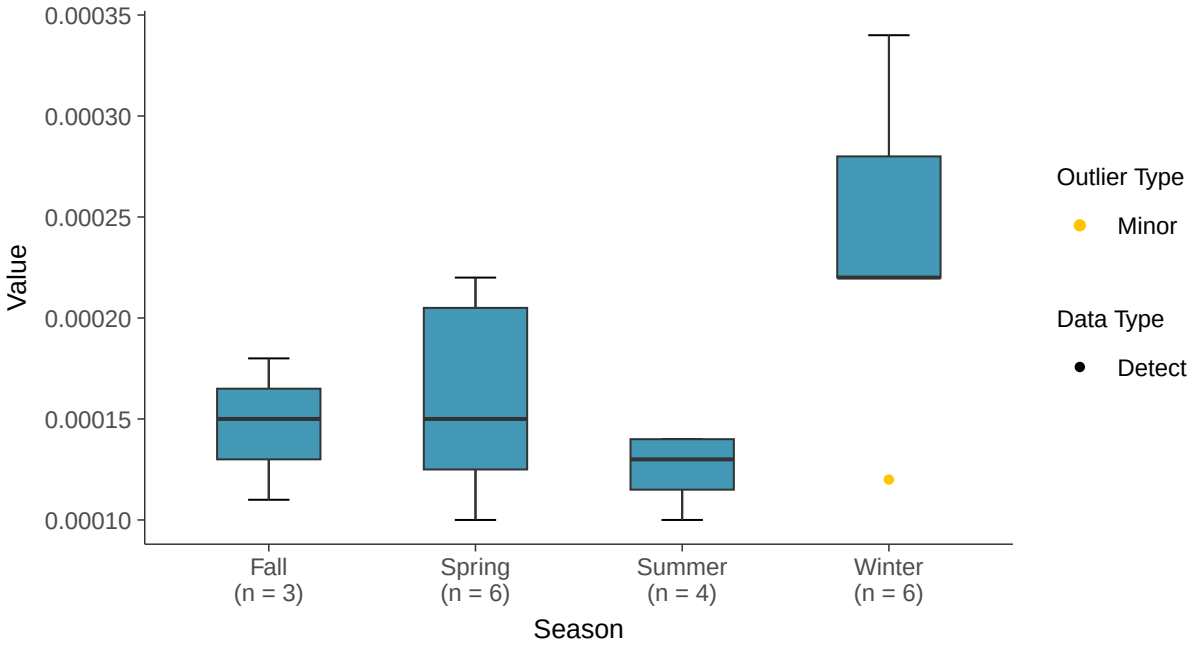
Boxplot

Selenium, MW-08 (mg/L)



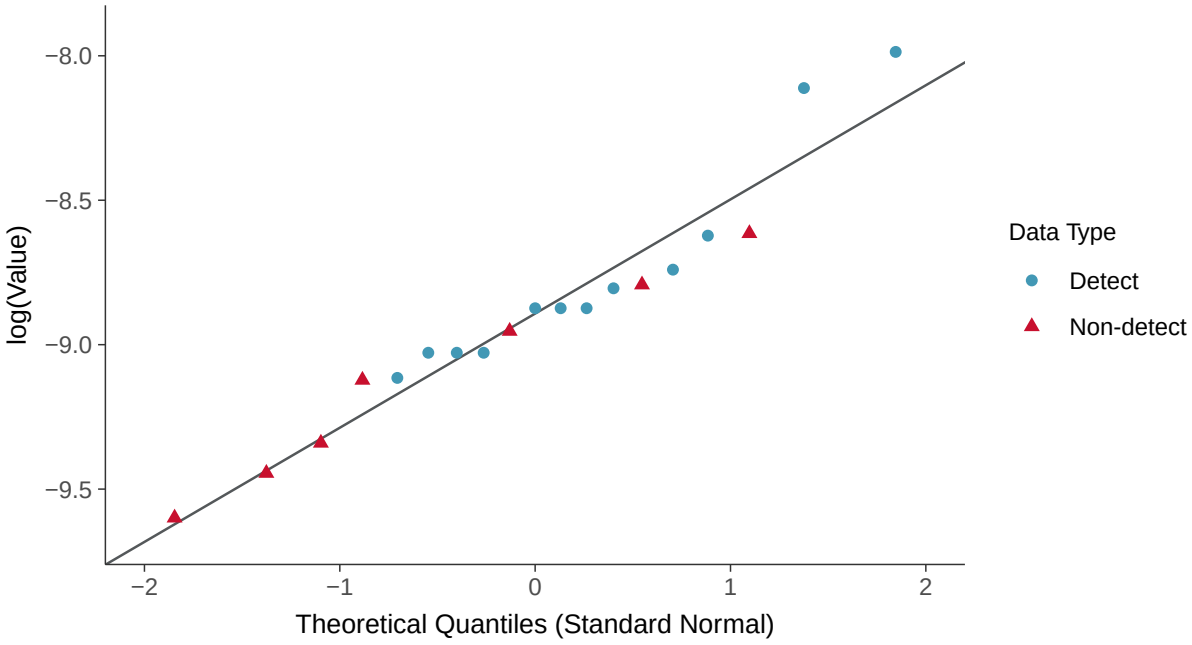
Boxplot by Season

Selenium, MW-08 (mg/L)



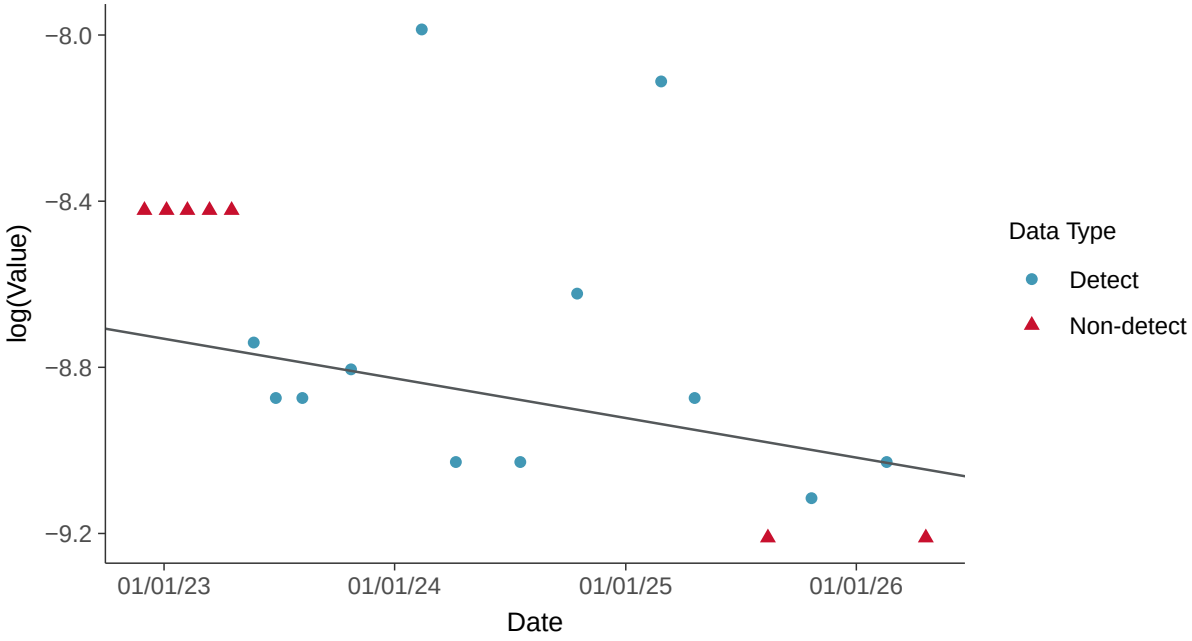
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-08 (mg/L)



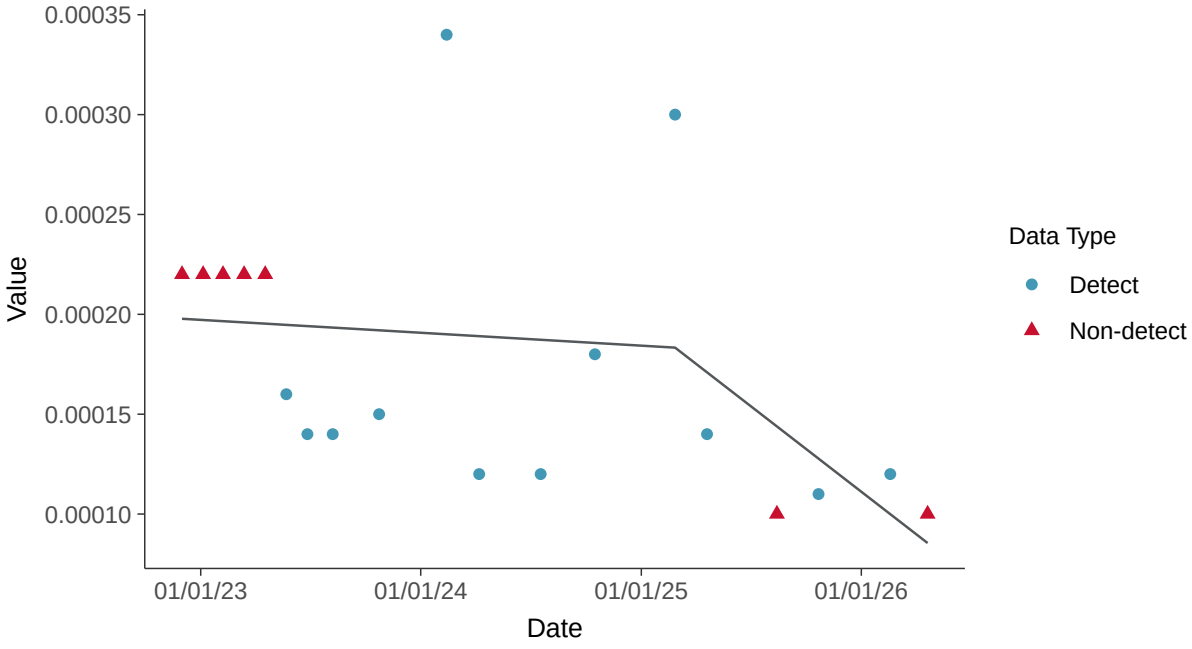
Trend Regression: Lognormal MLE

Selenium, MW-08 (mg/L)



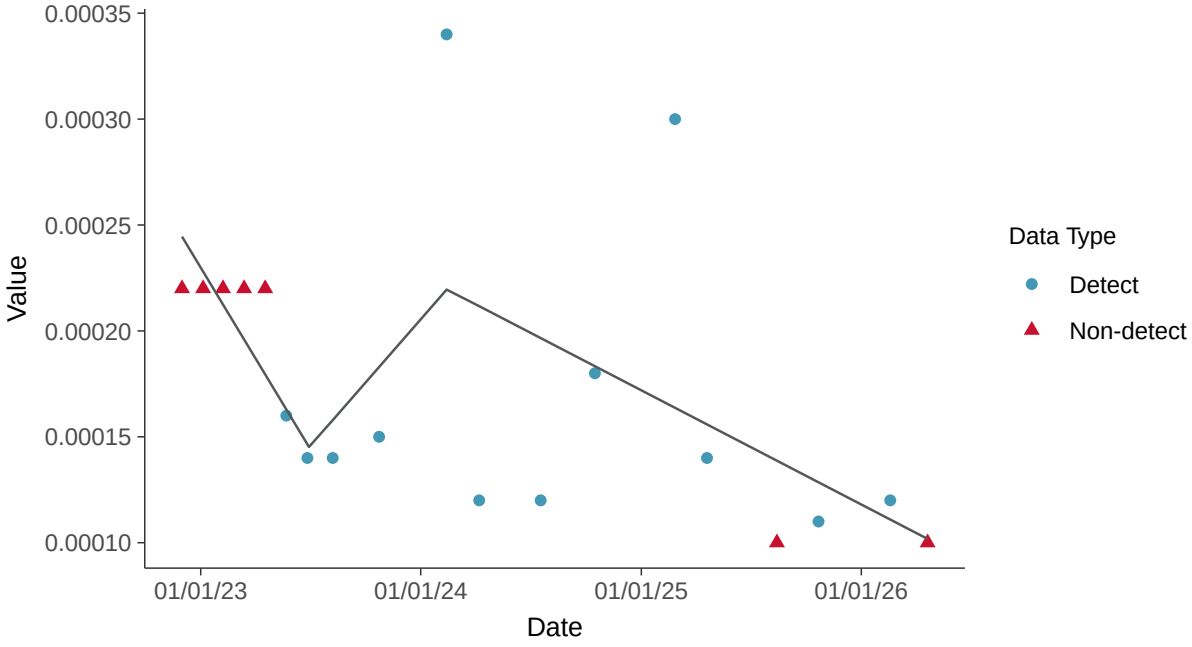
Trend Regression: Piecewise Linear-Linear

Selenium, MW-08 (mg/L)



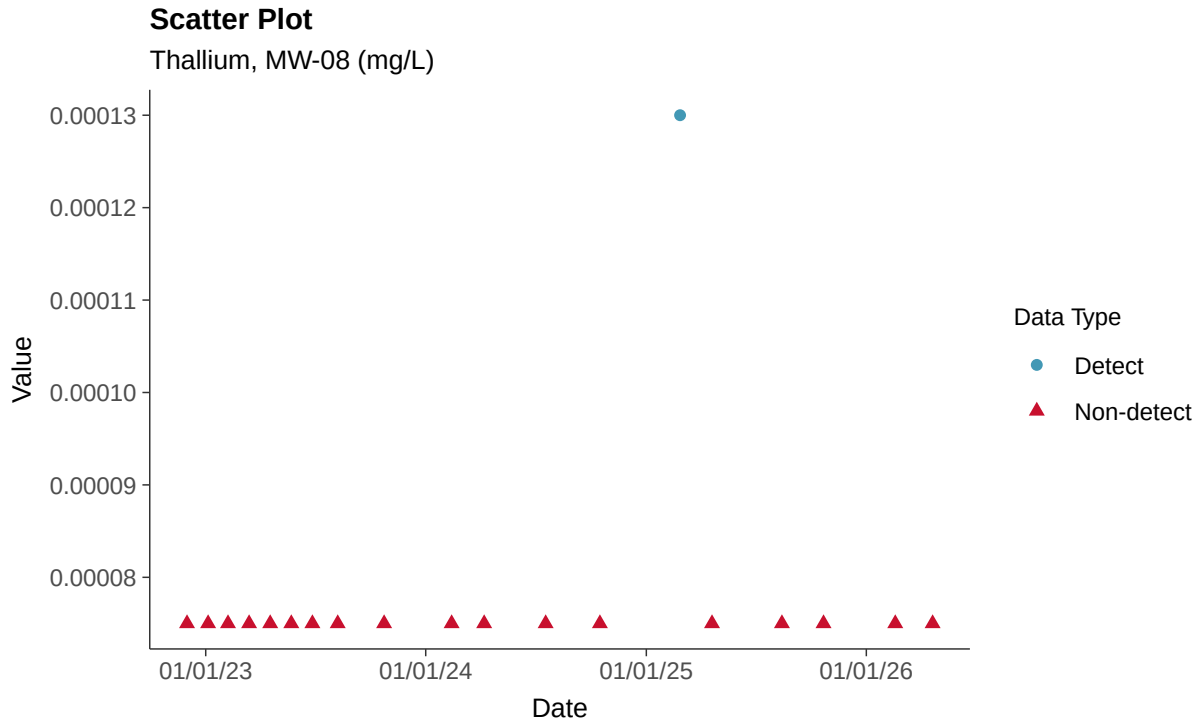
Trend Regression: Piecewise Linear-Linear-Linear

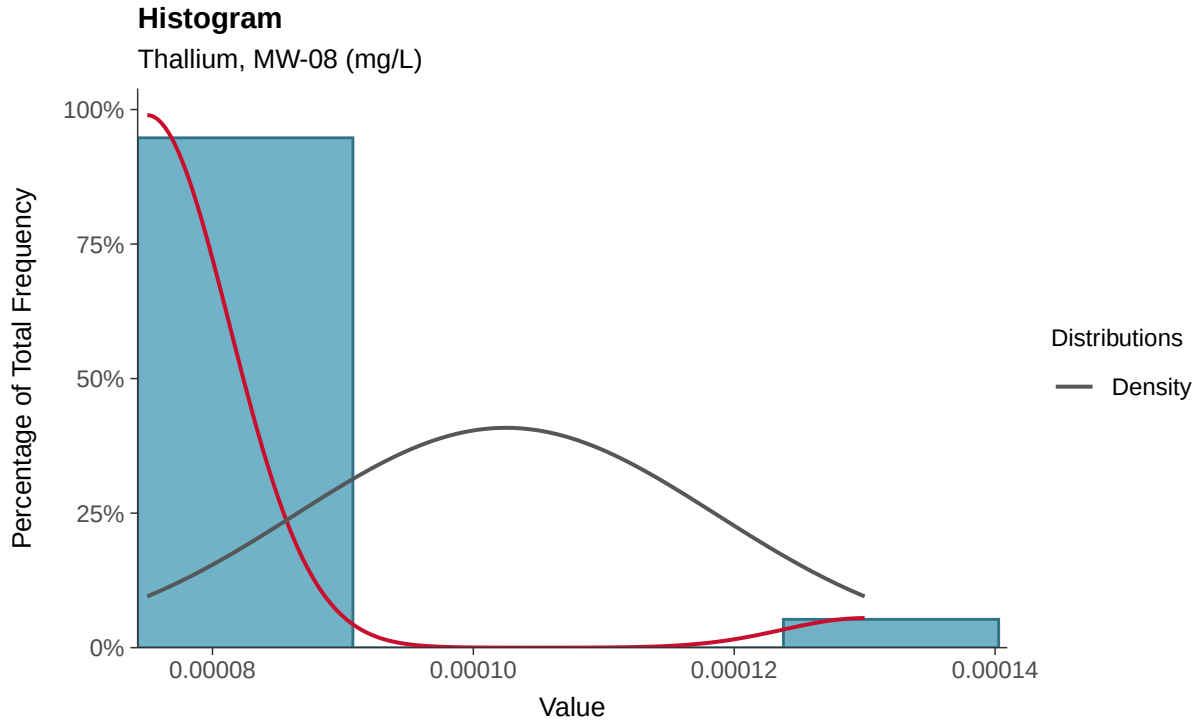
Selenium, MW-08 (mg/L)



Appendix IV: Thallium, MW-08

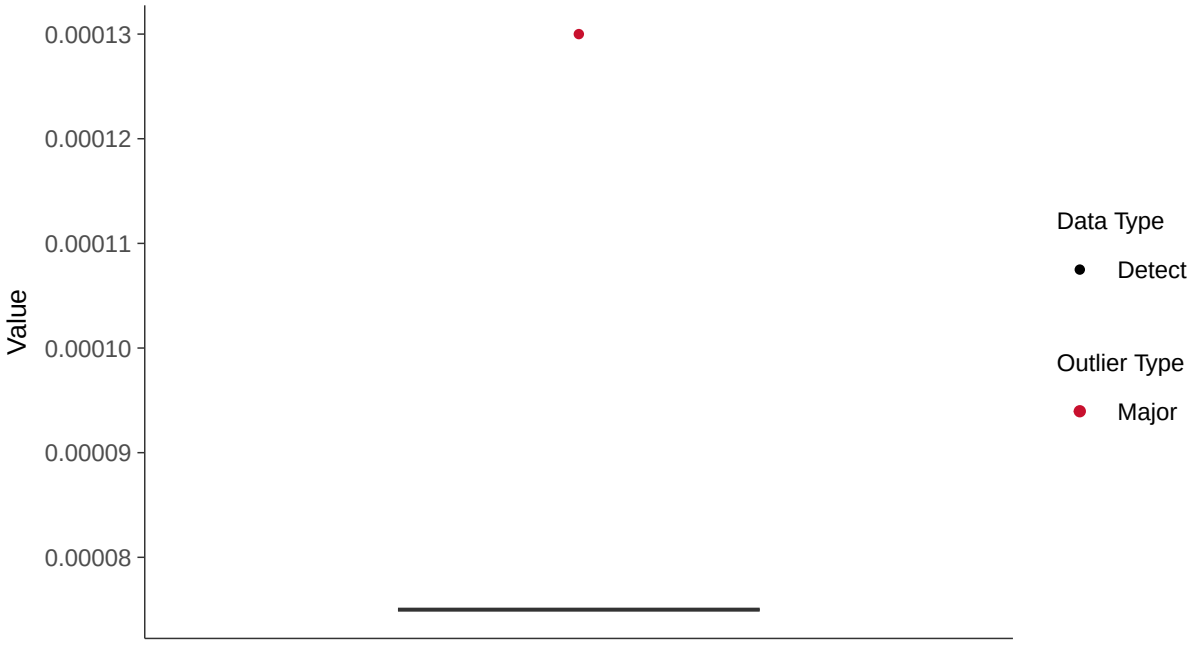
ID: 18_1_4_125





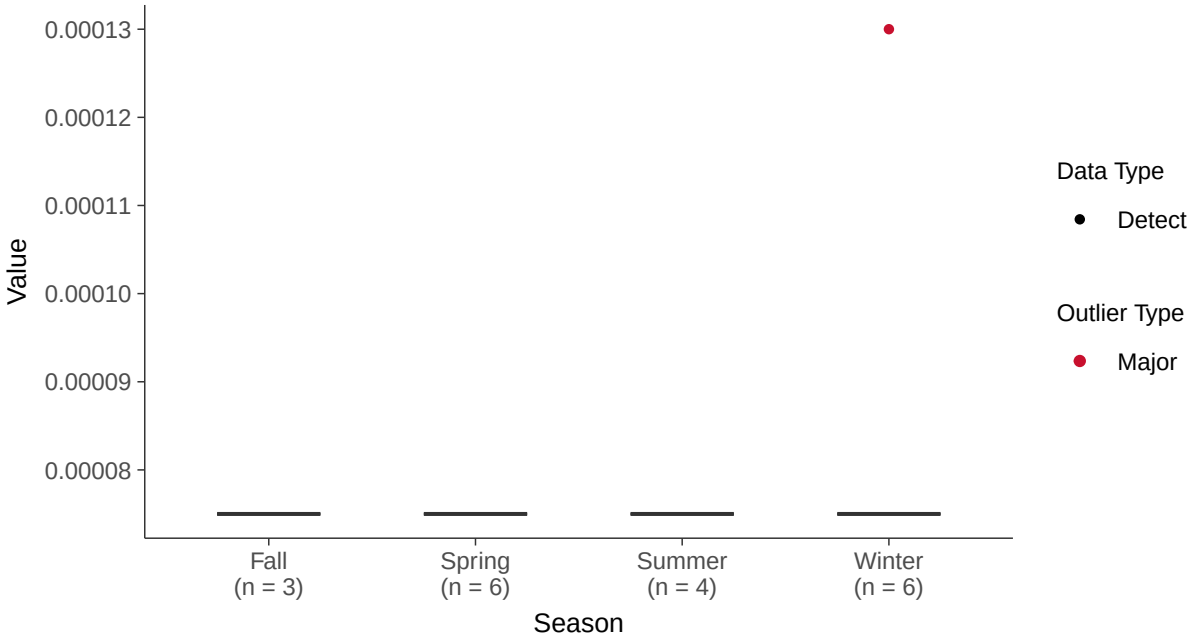
Boxplot

Thallium, MW-08 (mg/L)



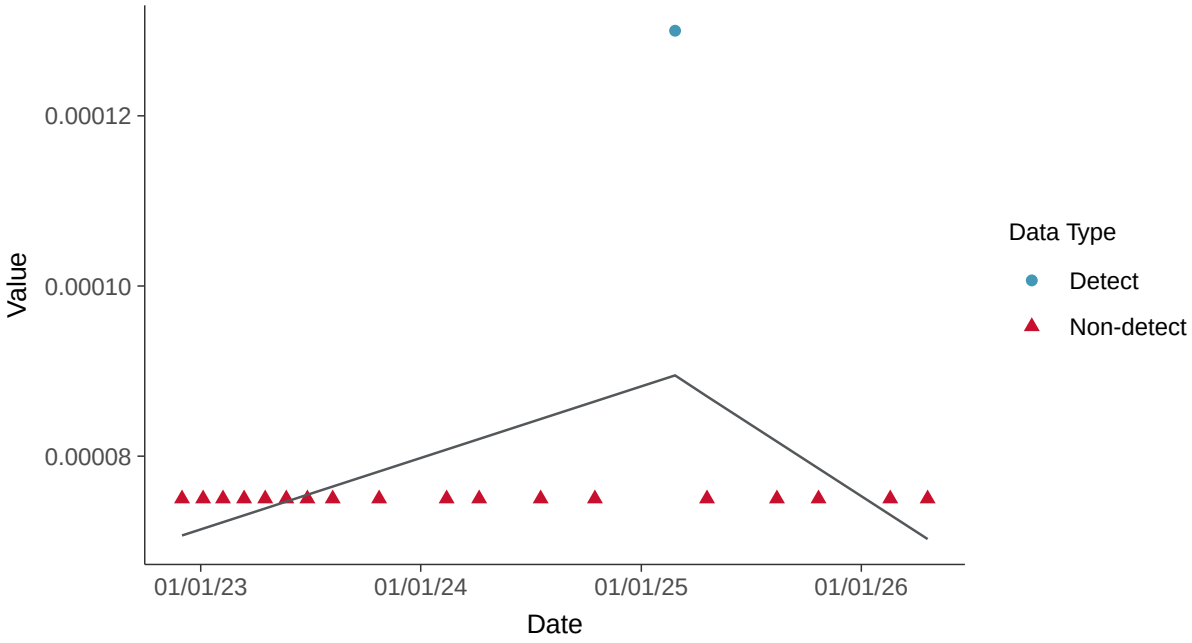
Boxplot by Season

Thallium, MW-08 (mg/L)



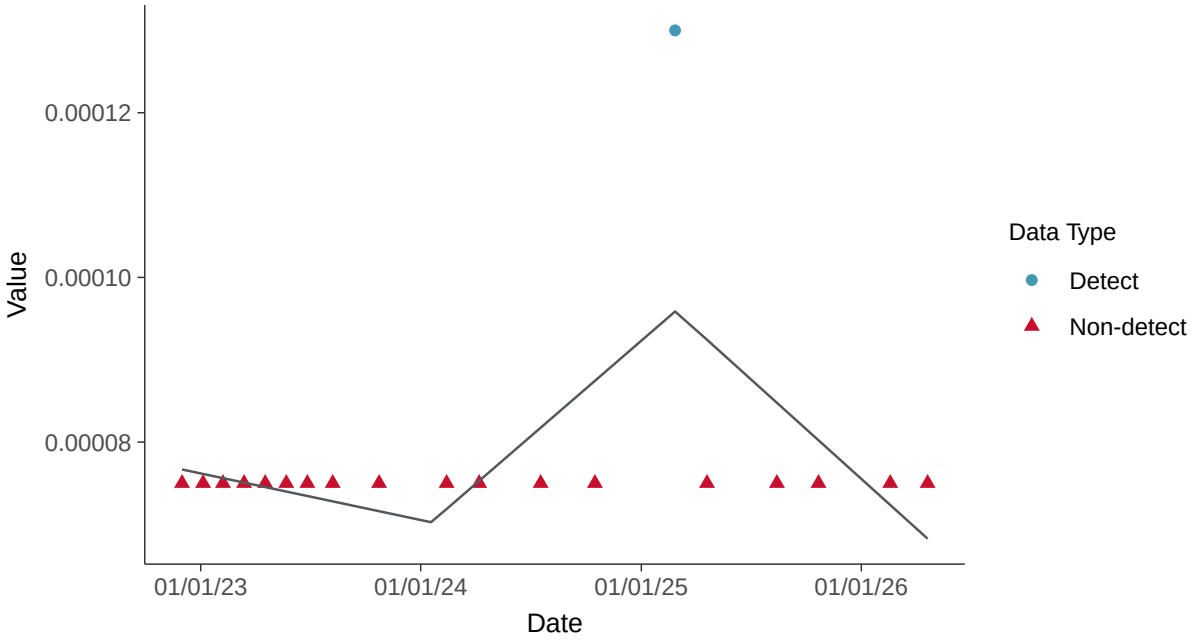
Trend Regression: Piecewise Linear-Linear

Thallium, MW-08 (mg/L)



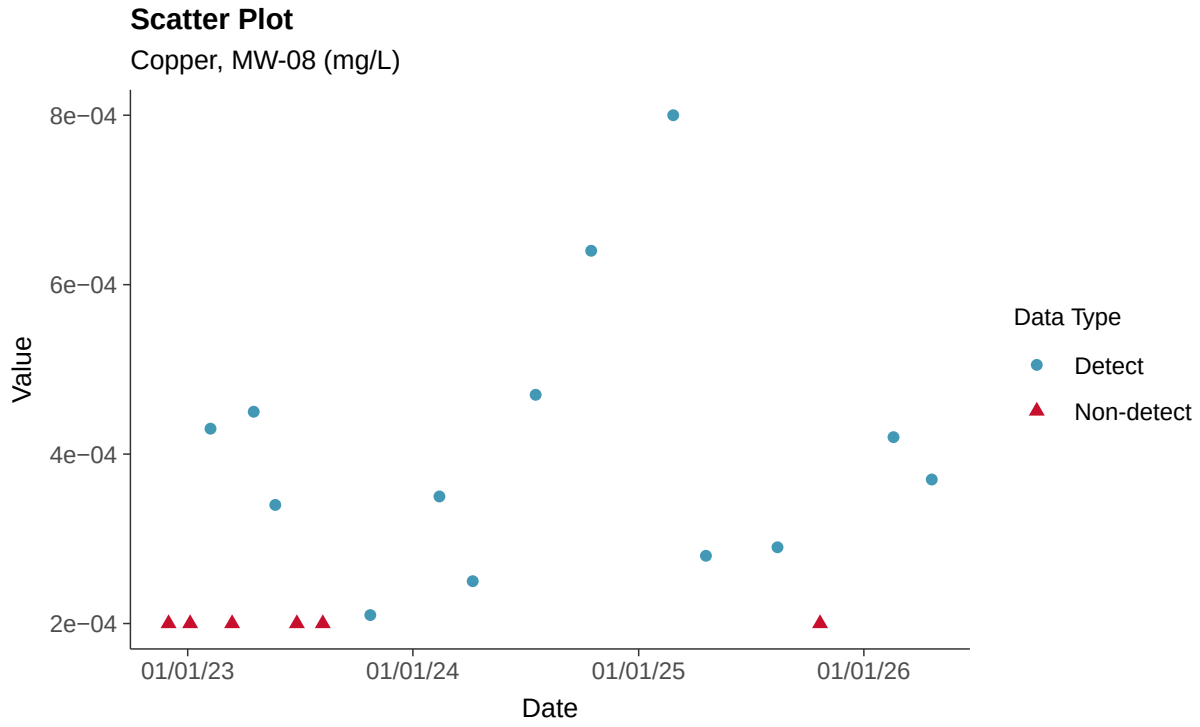
Trend Regression: Piecewise Linear-Linear-Linear

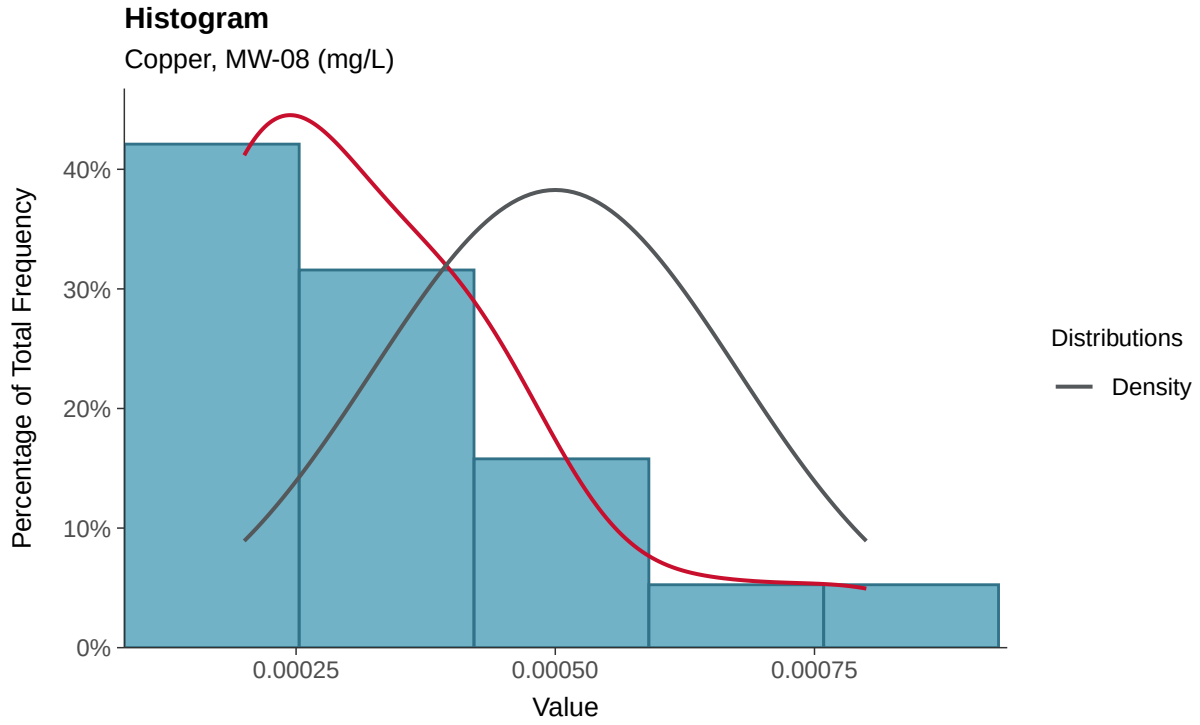
Thallium, MW-08 (mg/L)



Part 115: Copper, MW-08

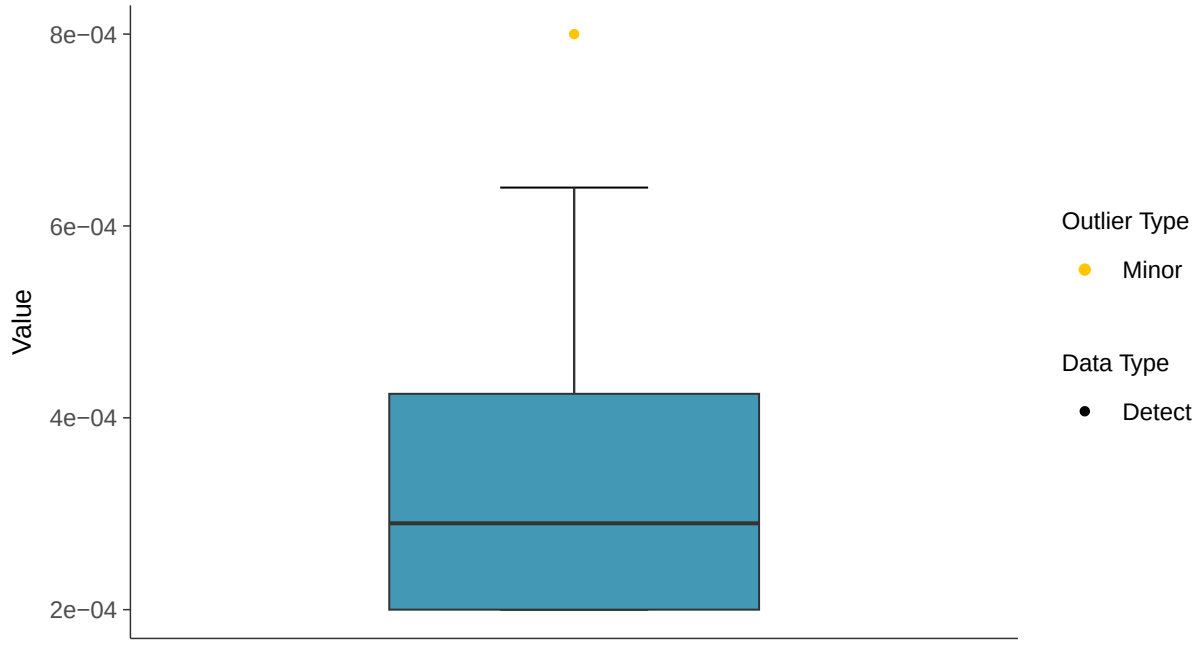
ID: 18_1_5_111





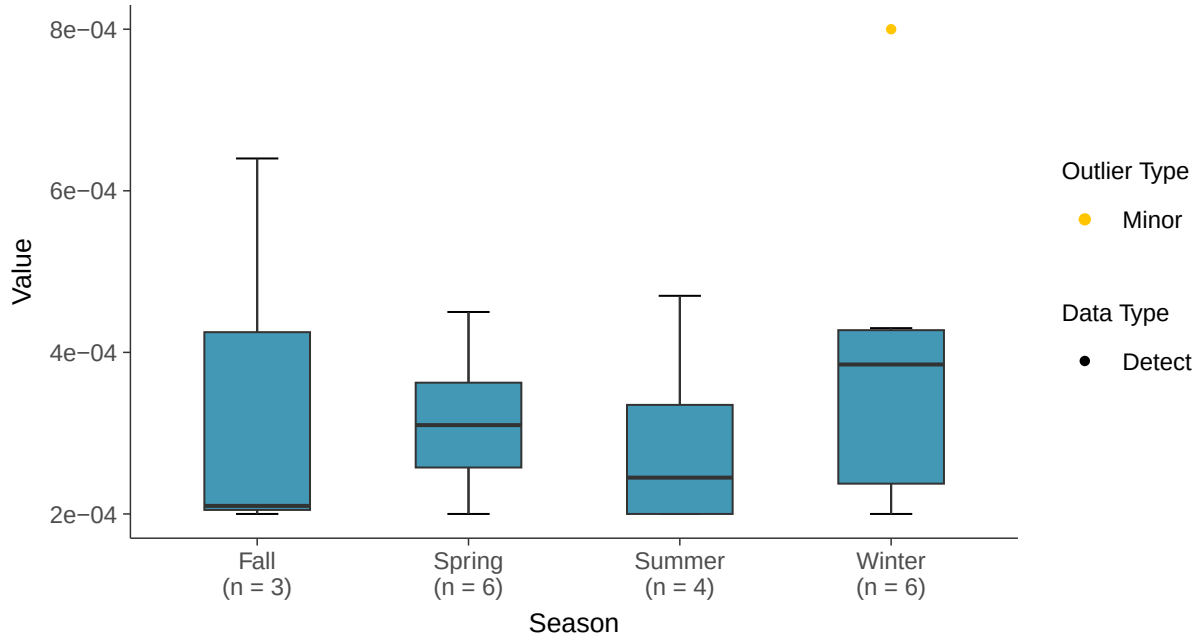
Boxplot

Copper, MW-08 (mg/L)



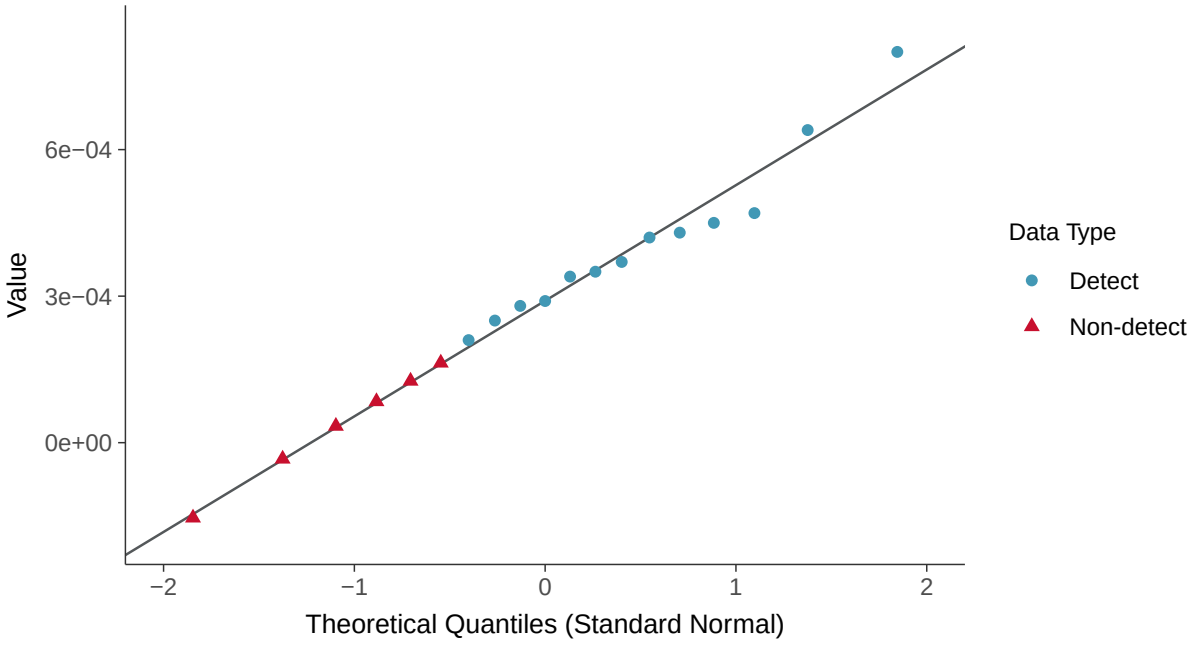
Boxplot by Season

Copper, MW-08 (mg/L)



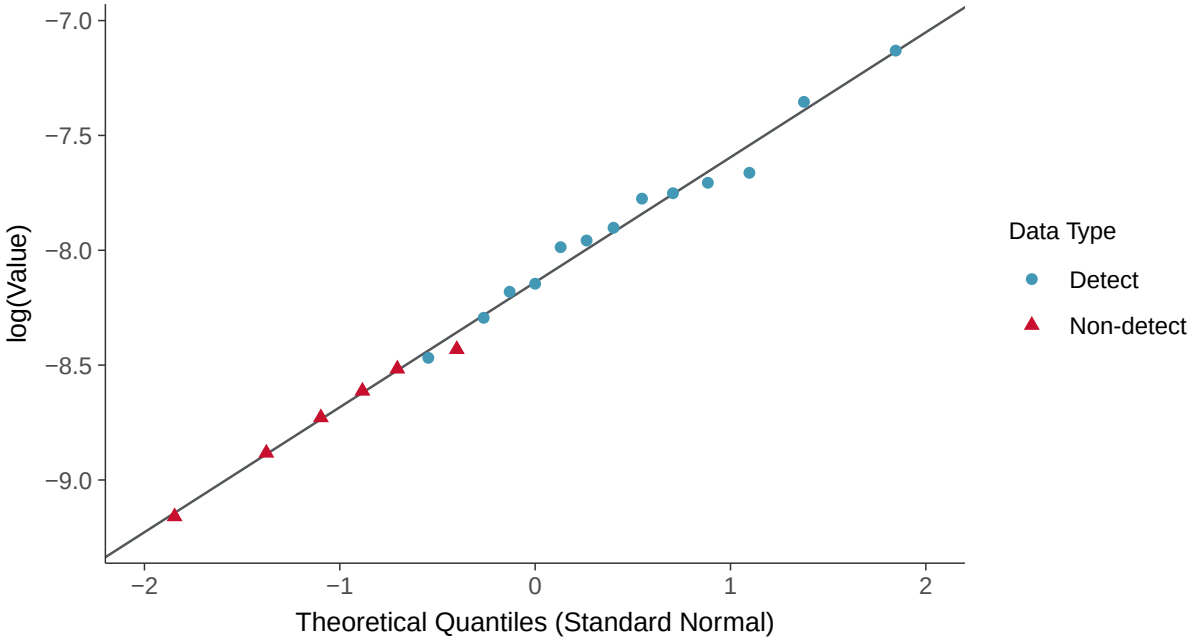
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)



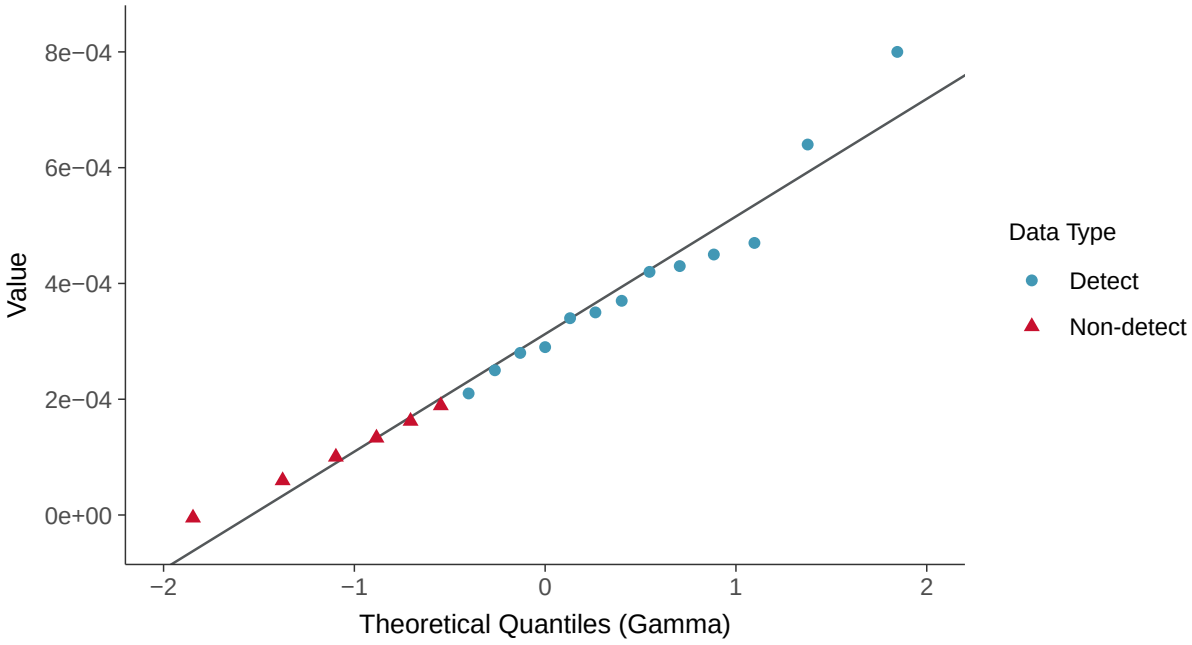
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)



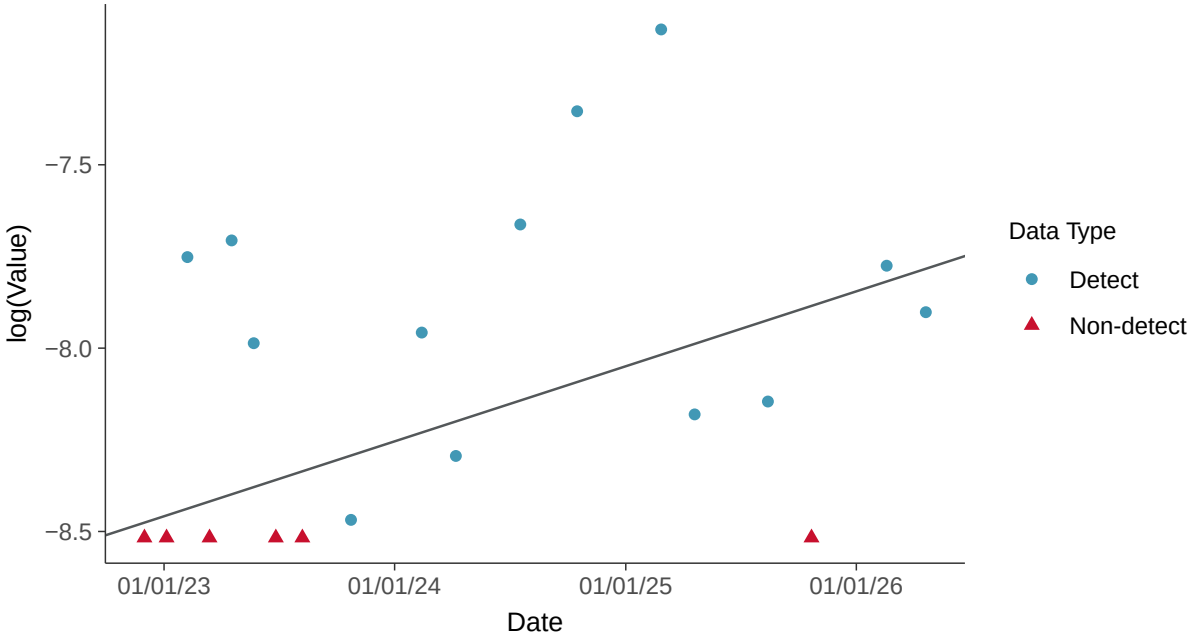
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-08 (mg/L)



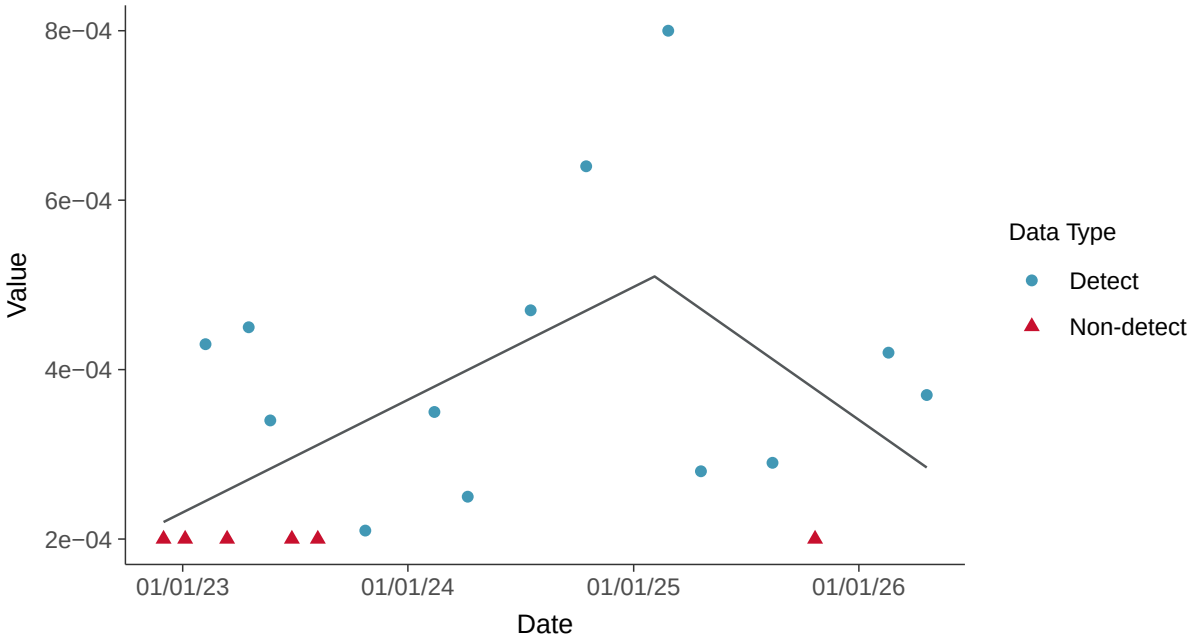
Trend Regression: Lognormal MLE

Copper, MW-08 (mg/L)



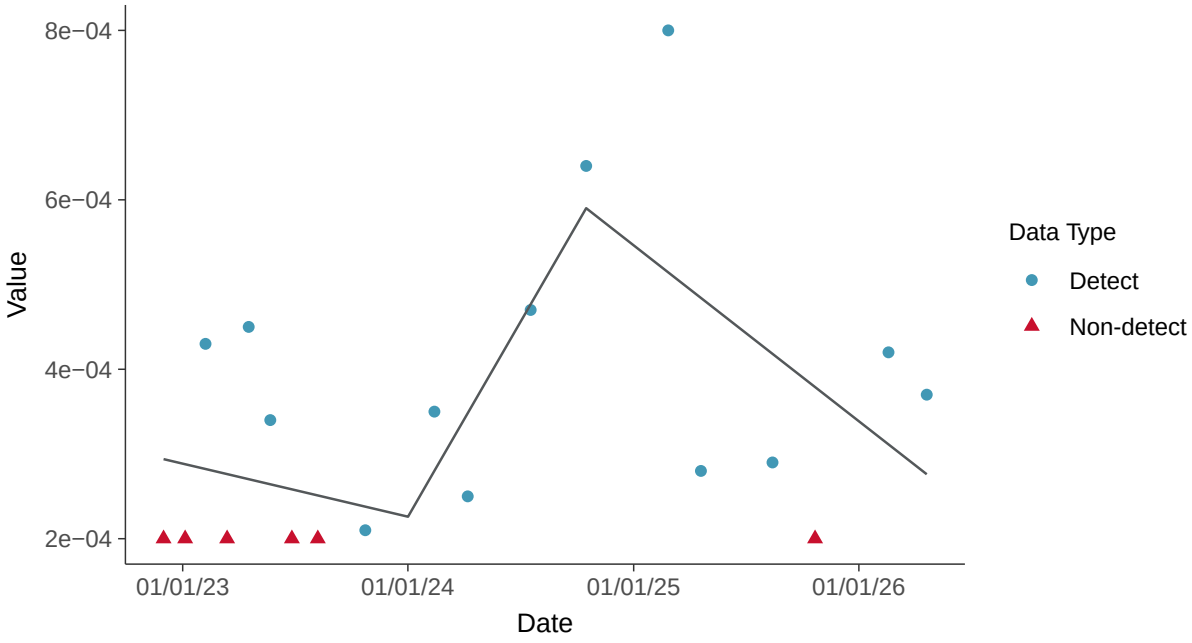
Trend Regression: Piecewise Linear-Linear

Copper, MW-08 (mg/L)



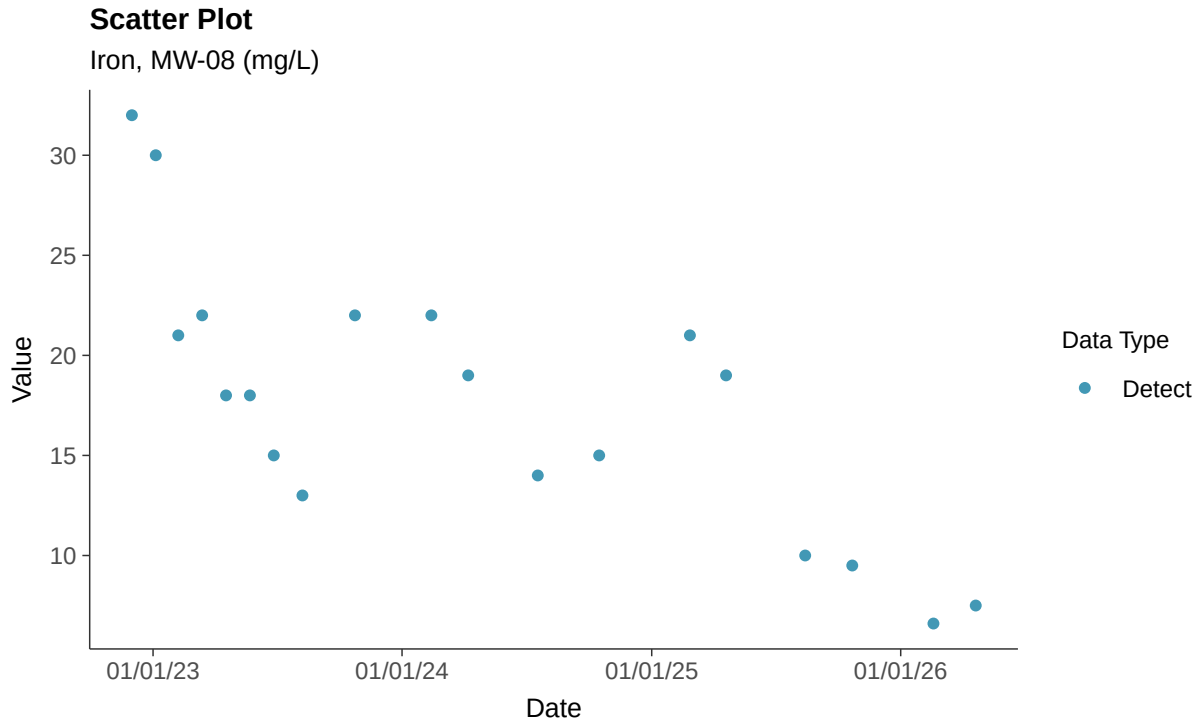
Trend Regression: Piecewise Linear-Linear-Linear

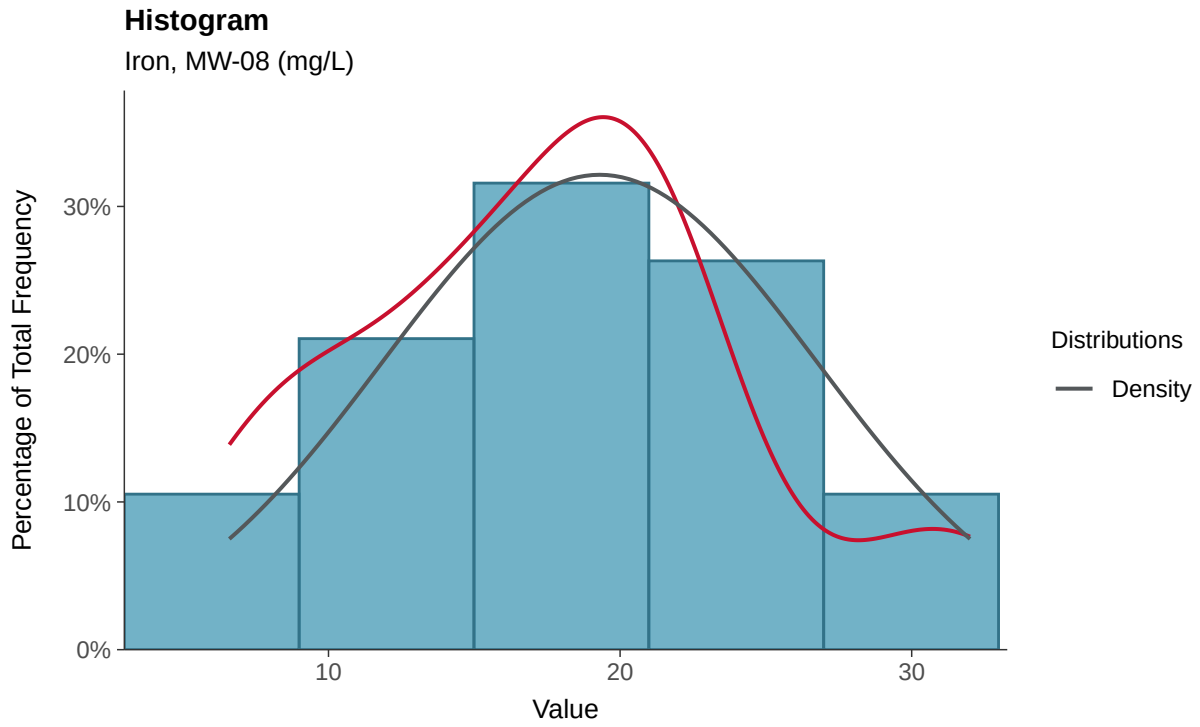
Copper, MW-08 (mg/L)



Part 115: Iron, MW-08

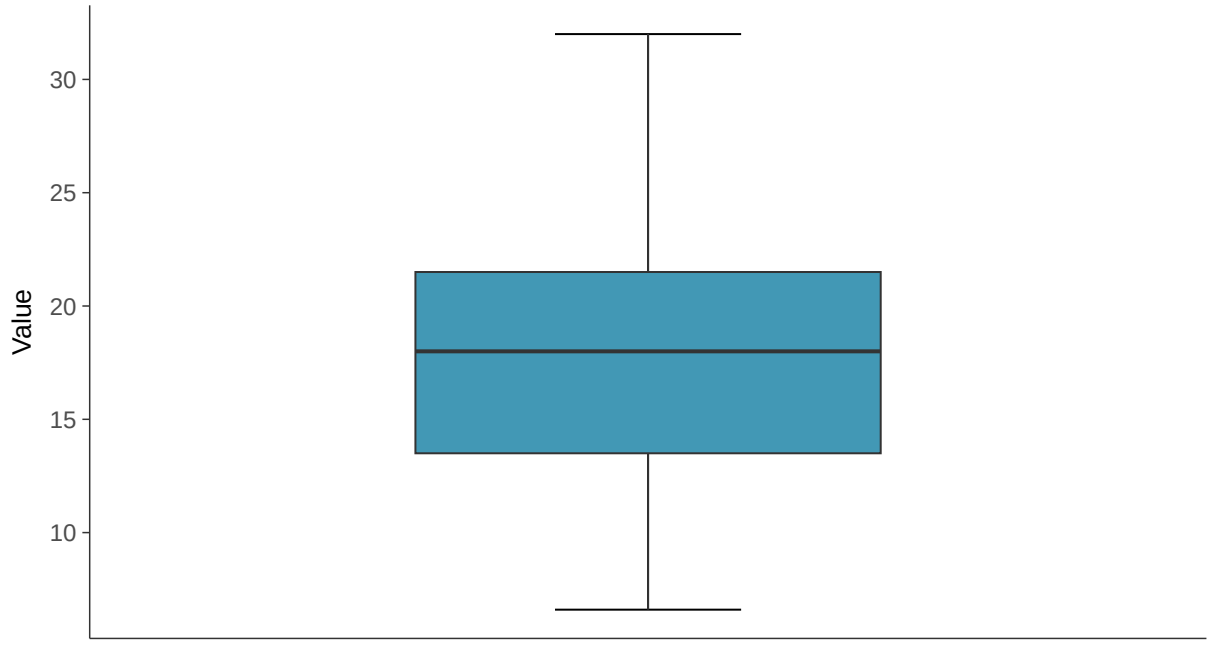
ID: 18_1_5_114





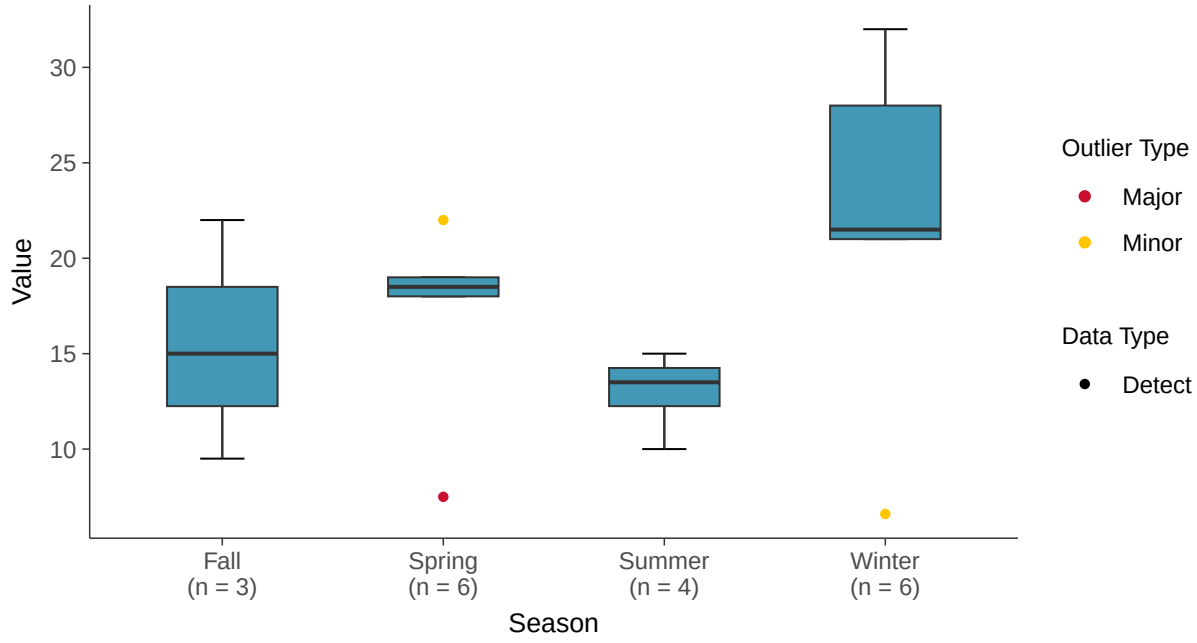
Boxplot

Iron, MW-08 (mg/L)



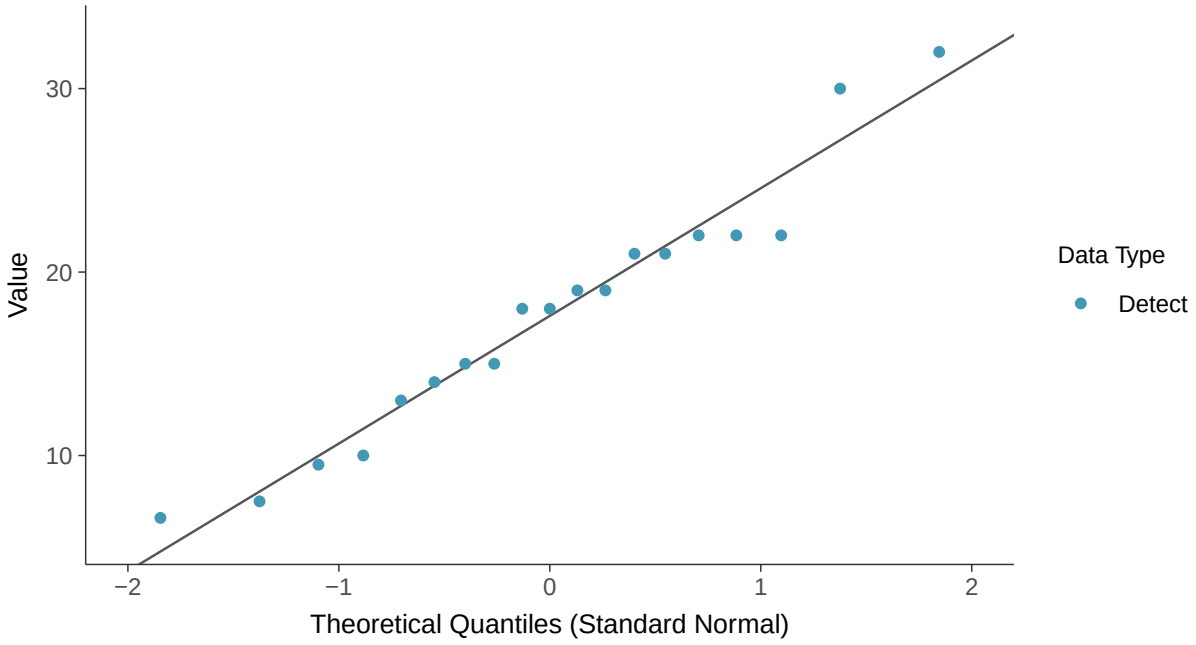
Boxplot by Season

Iron, MW-08 (mg/L)



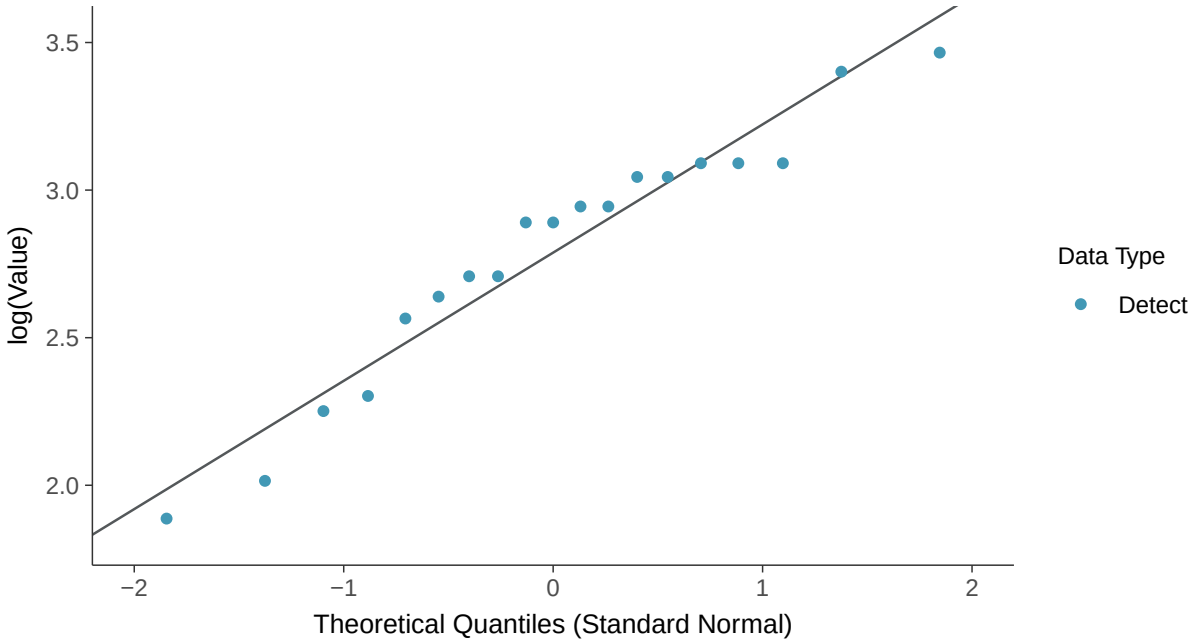
Normal Q-Q plot

Iron, MW-08 (mg/L)



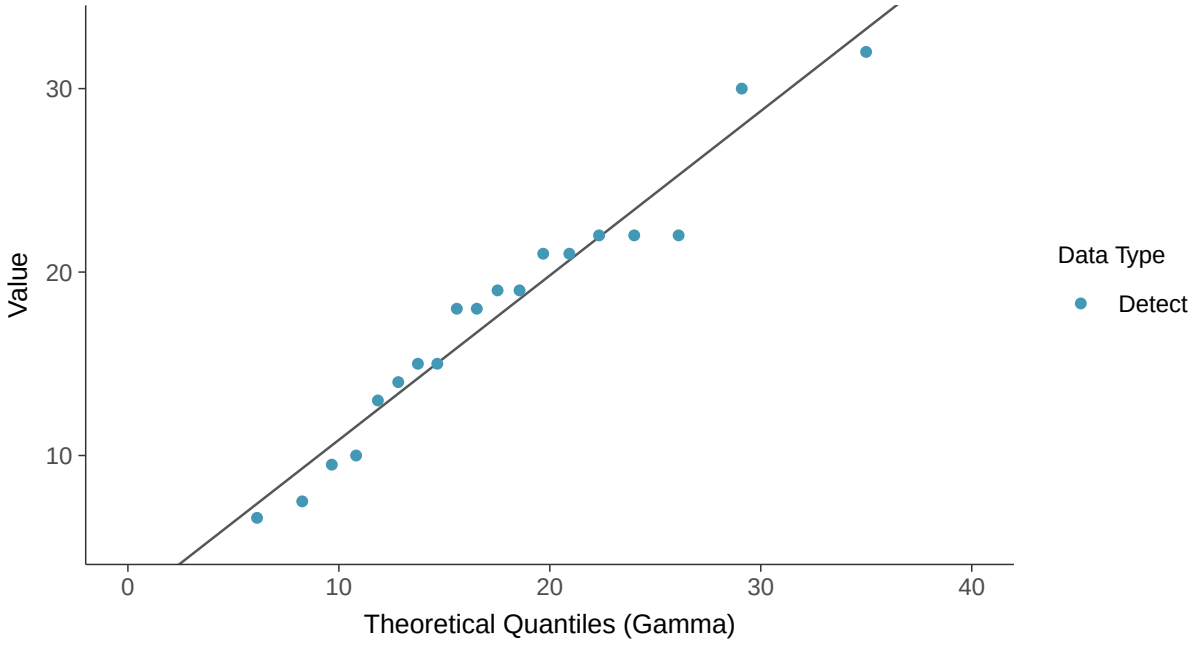
Lognormal Q-Q plot

Iron, MW-08 (mg/L)



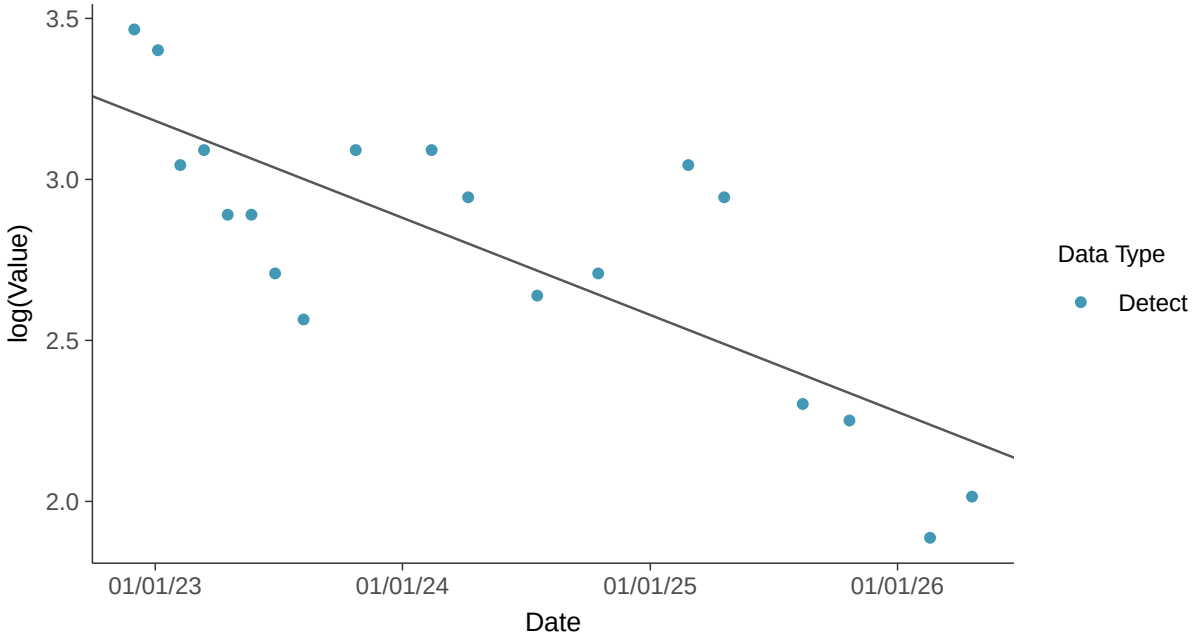
Gamma Q-Q plot

Iron, MW-08 (mg/L)



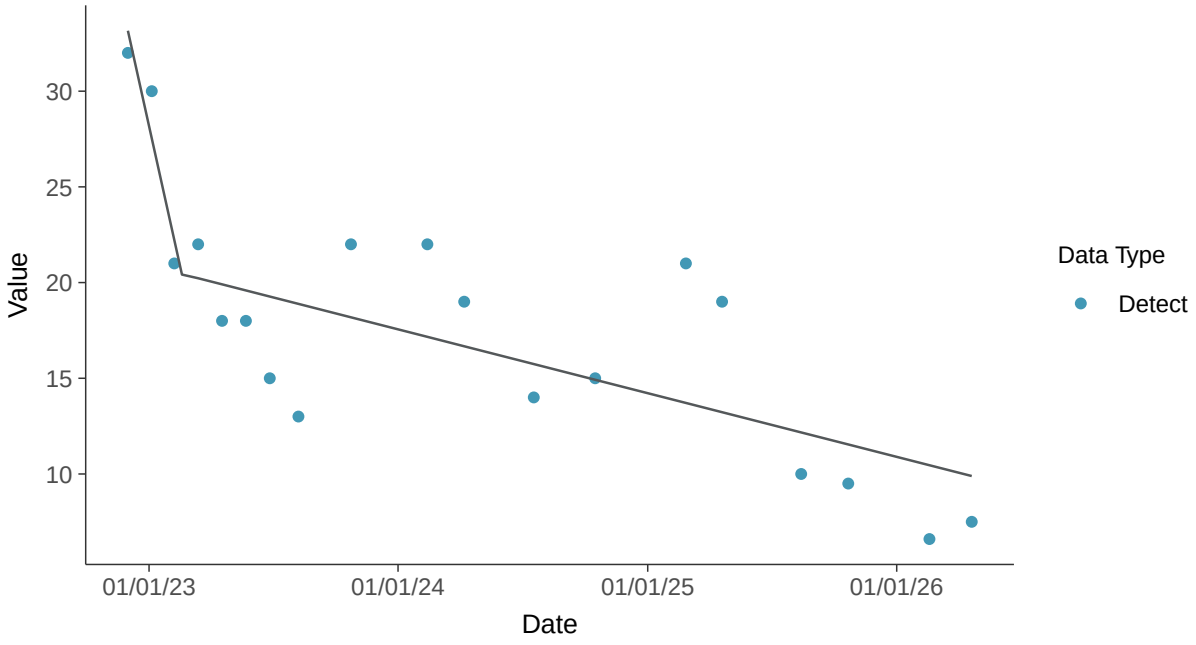
Trend Regression: Lognormal MLE

Iron, MW-08 (mg/L)



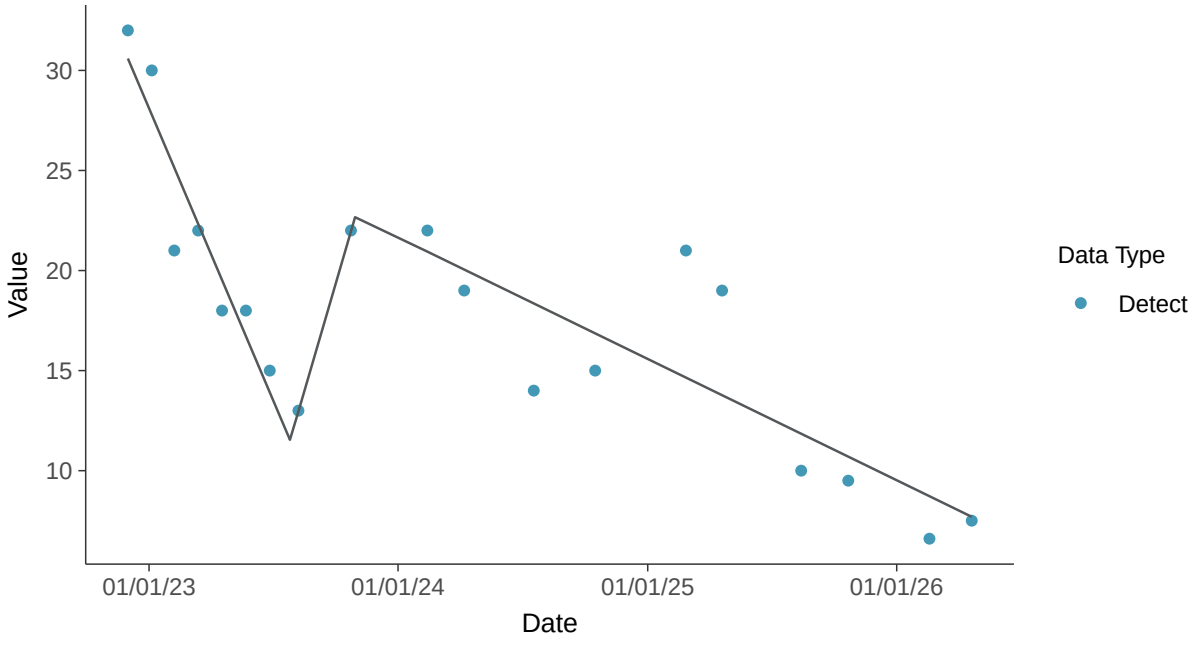
Trend Regression: Piecewise Linear-Linear

Iron, MW-08 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-08 (mg/L)

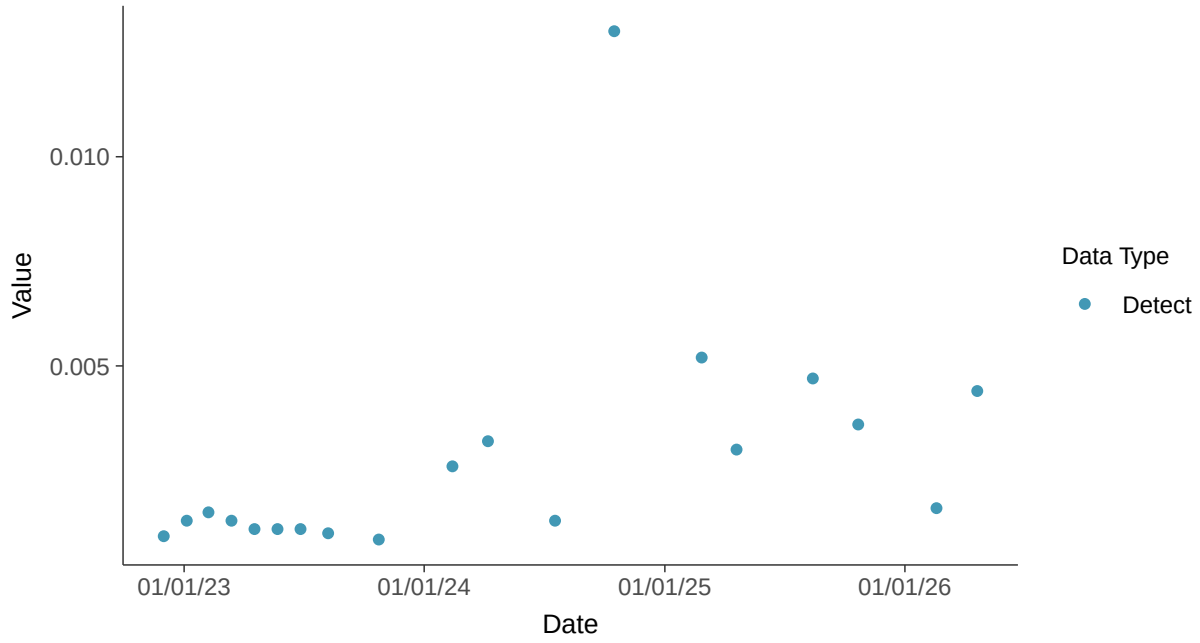


Part 115: Nickel, MW-08

ID: 18_1_5_119

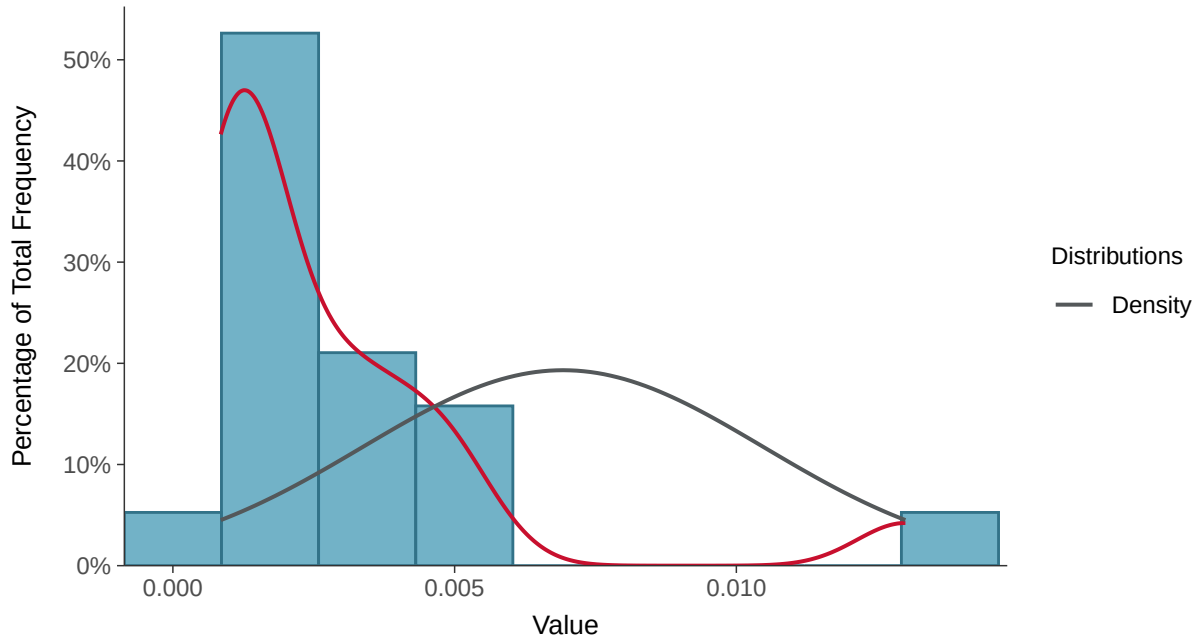
Scatter Plot

Nickel, MW-08 (mg/L)



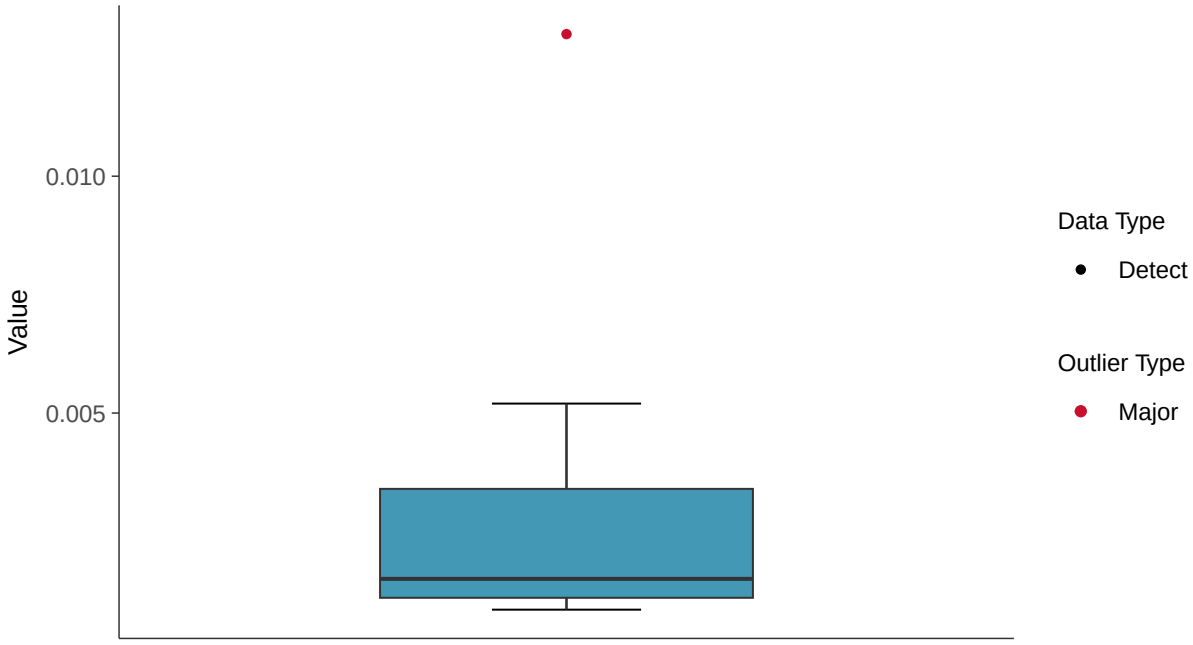
Histogram

Nickel, MW-08 (mg/L)



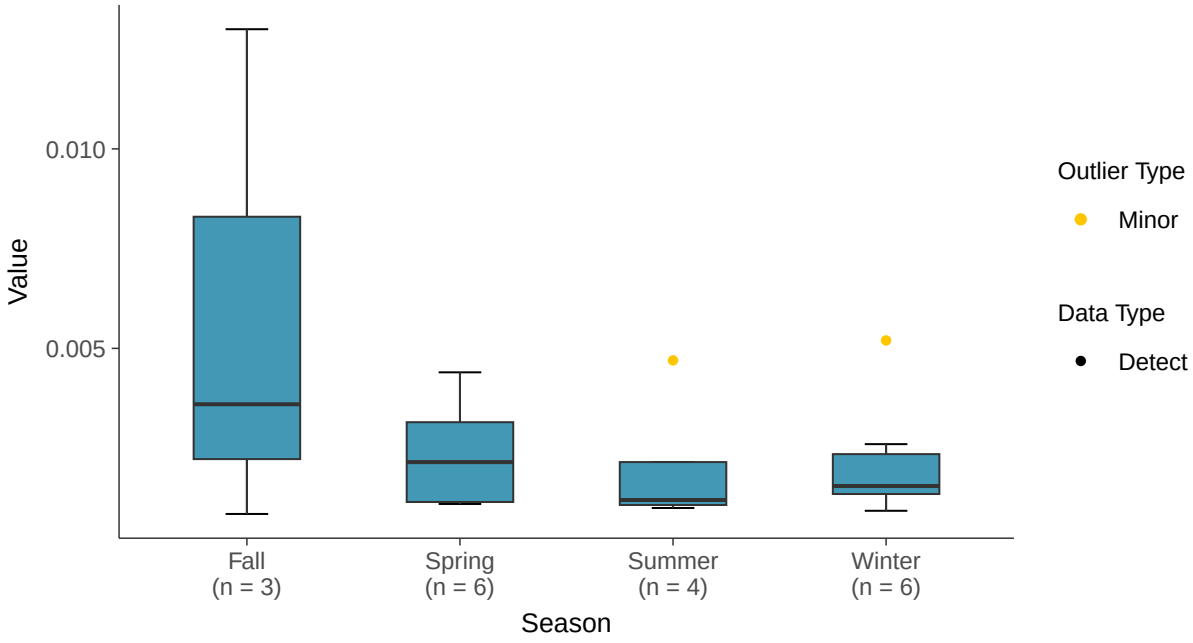
Boxplot

Nickel, MW-08 (mg/L)



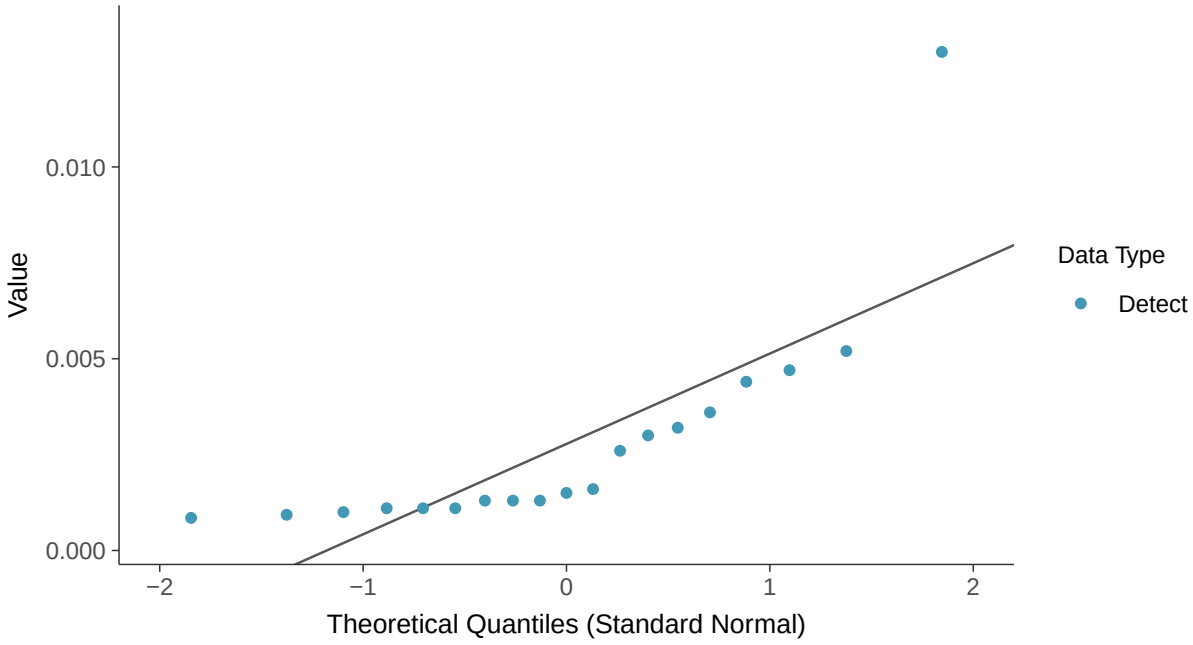
Boxplot by Season

Nickel, MW-08 (mg/L)



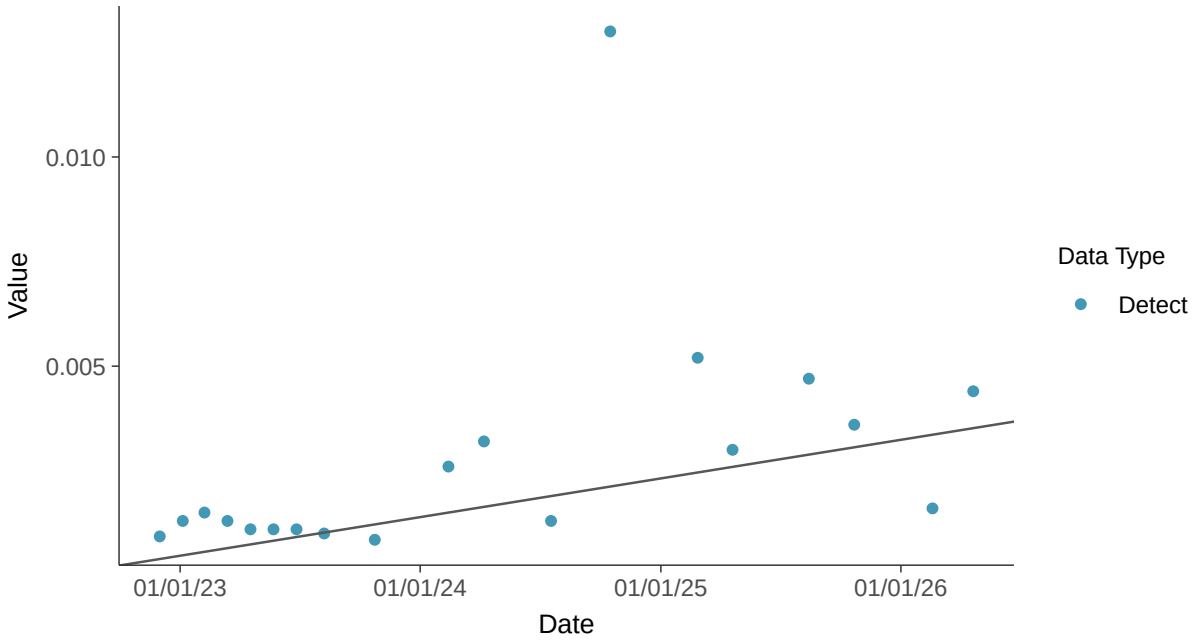
Normal Q-Q plot

Nickel, MW-08 (mg/L)



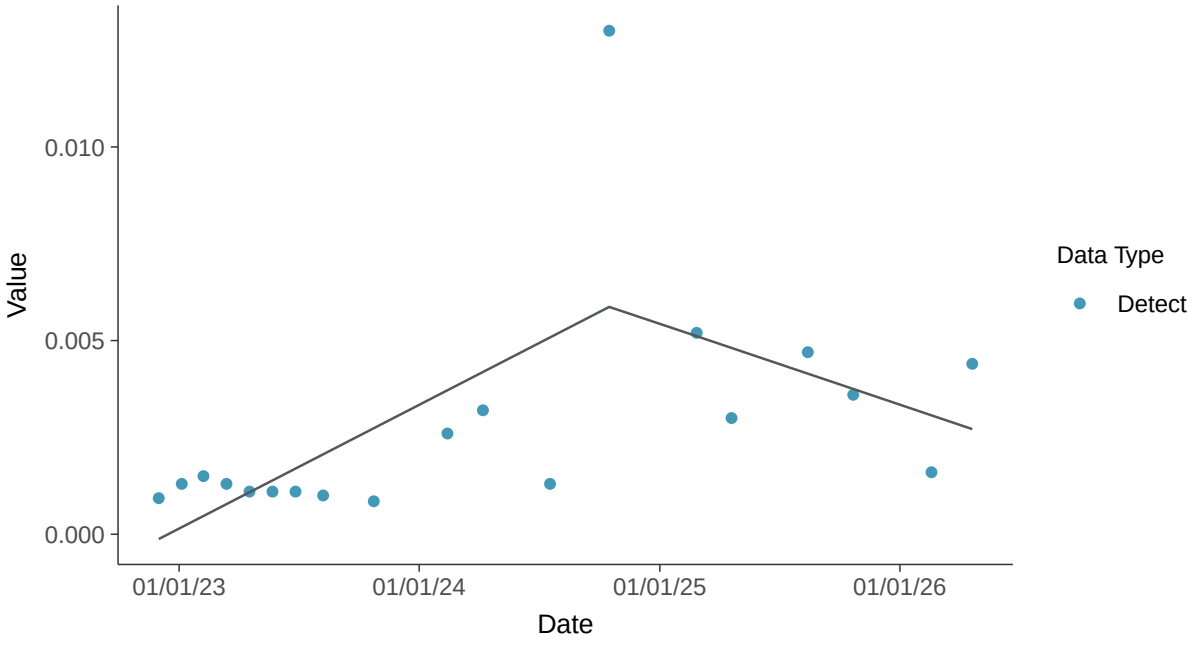
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-08 (mg/L)



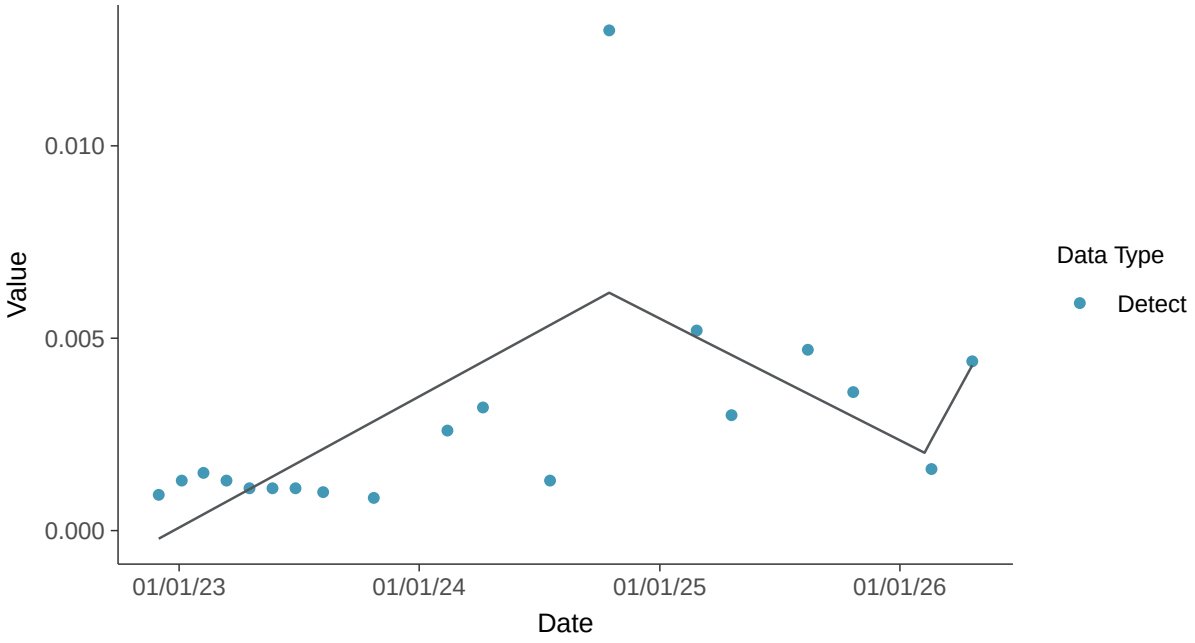
Trend Regression: Piecewise Linear-Linear

Nickel, MW-08 (mg/L)



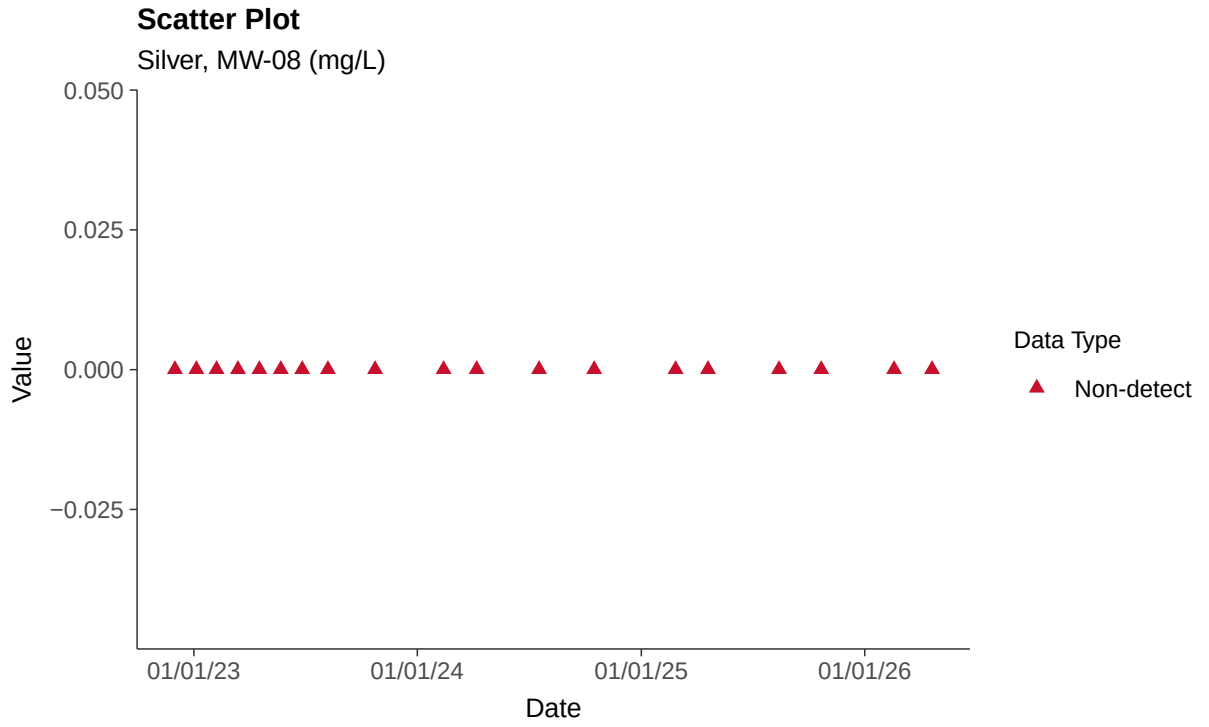
Trend Regression: Piecewise Linear-Linear-Linear

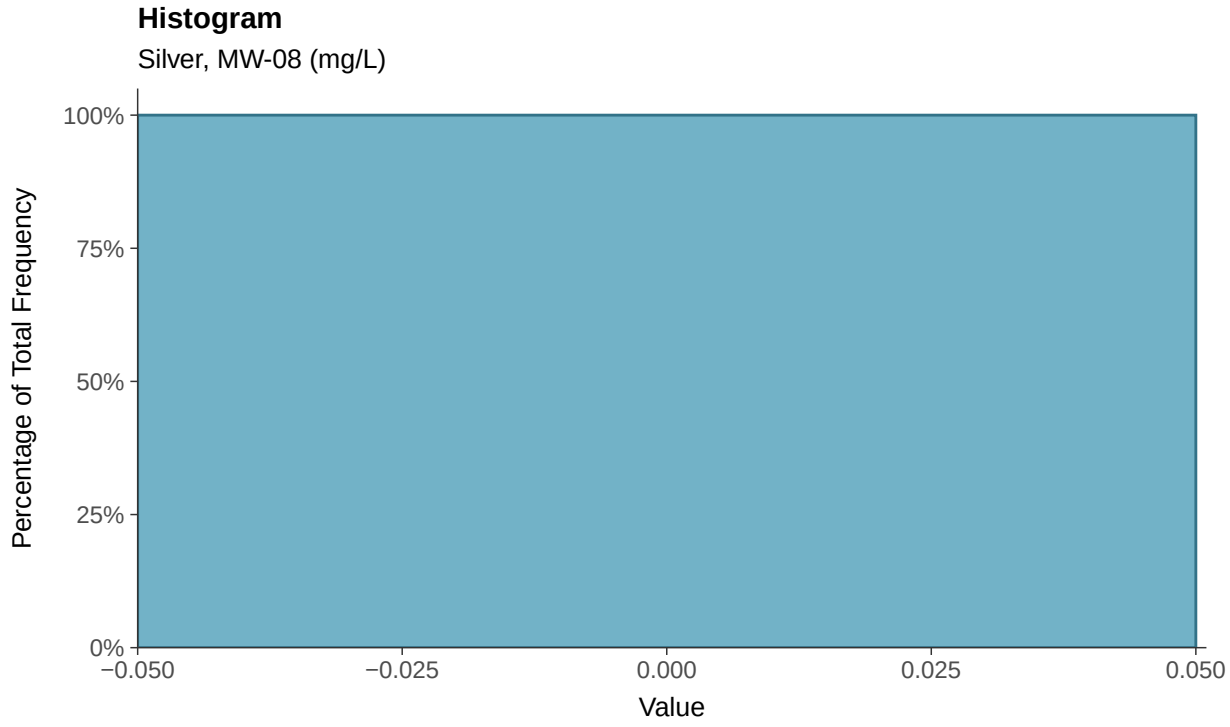
Nickel, MW-08 (mg/L)



Part 115: Silver, MW-08

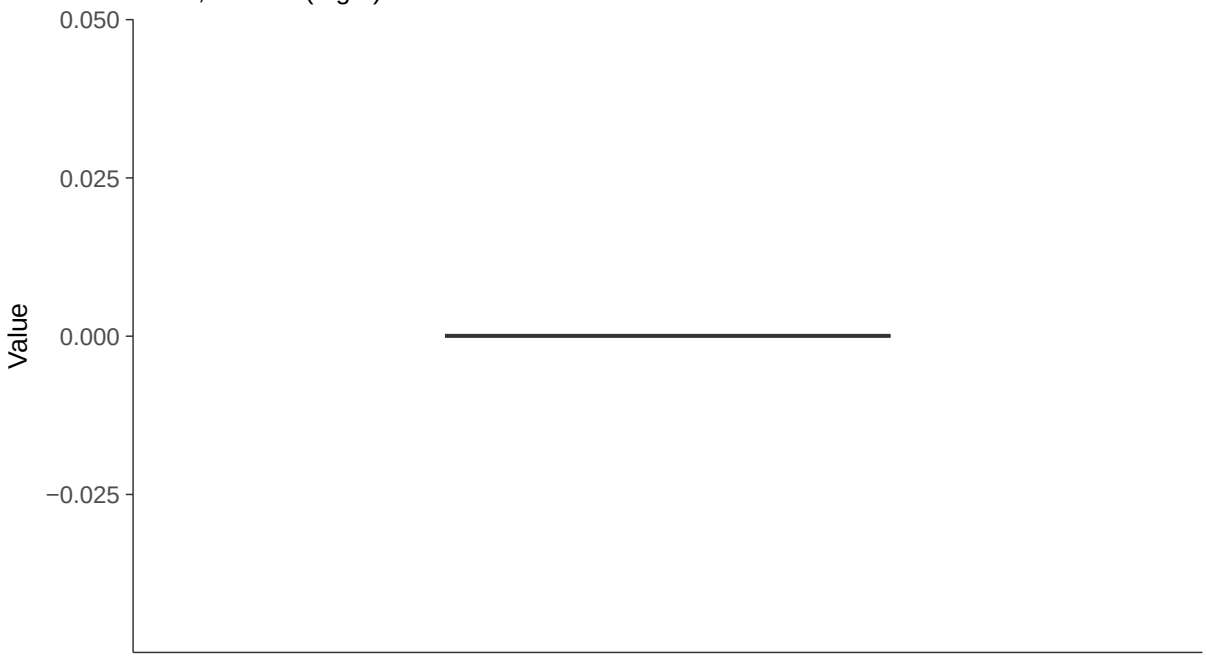
ID: 18_1_5_123





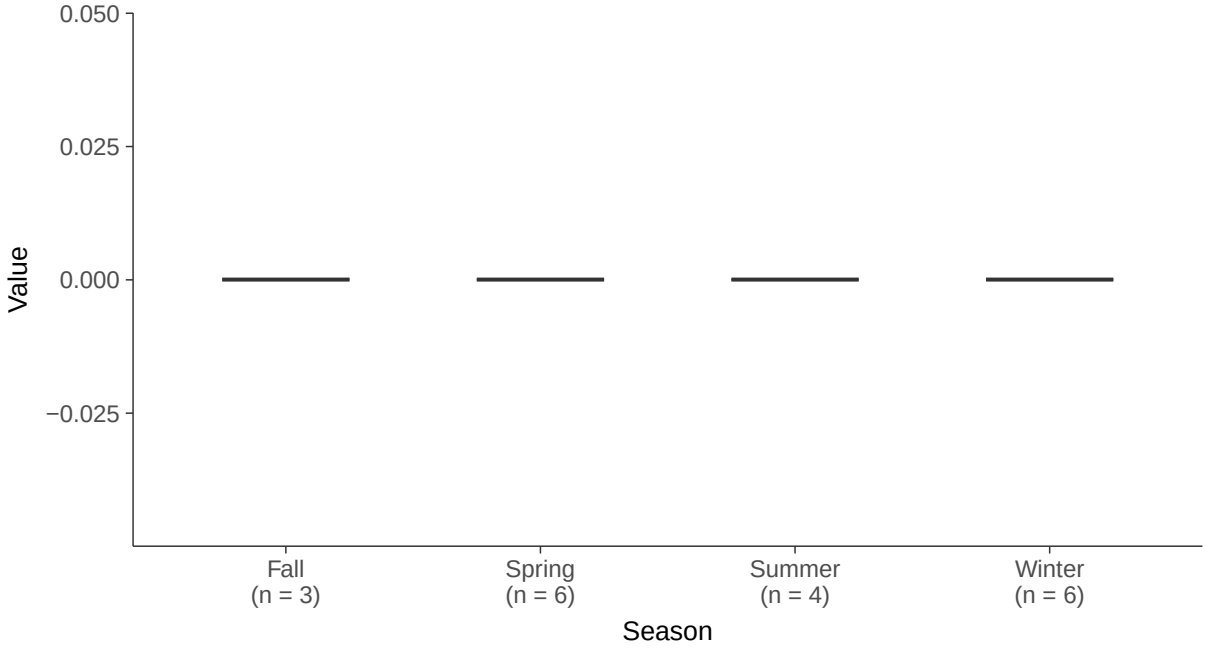
Boxplot

Silver, MW-08 (mg/L)



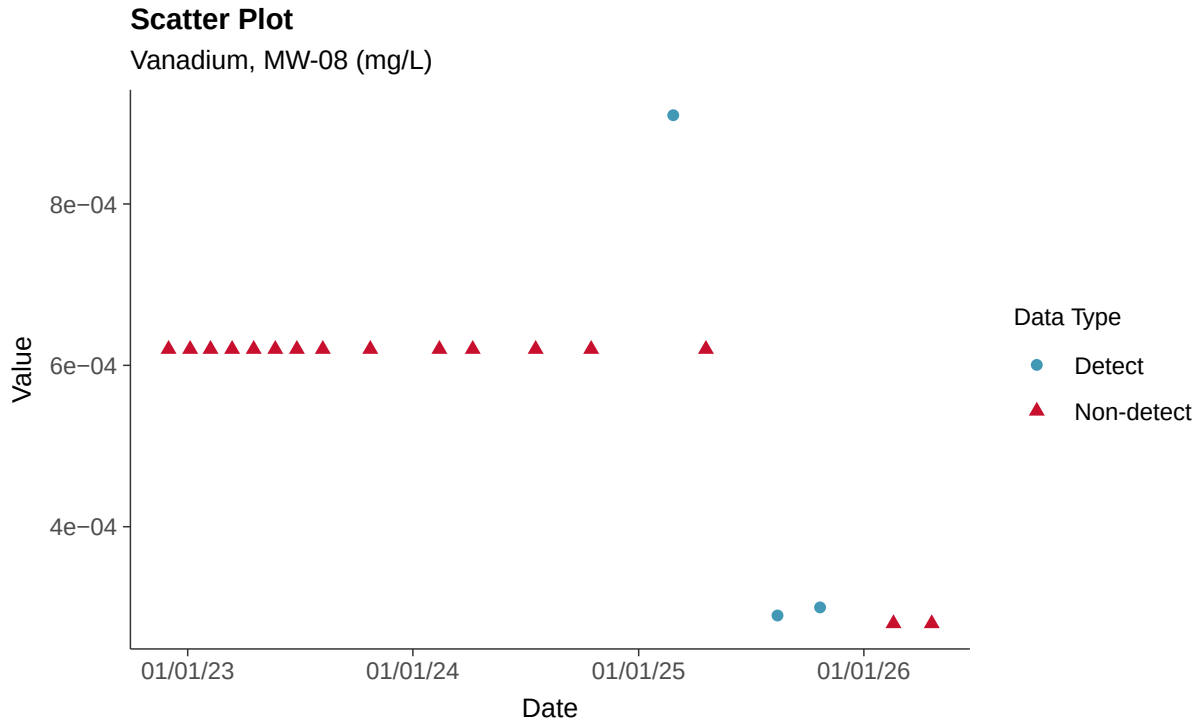
Boxplot by Season

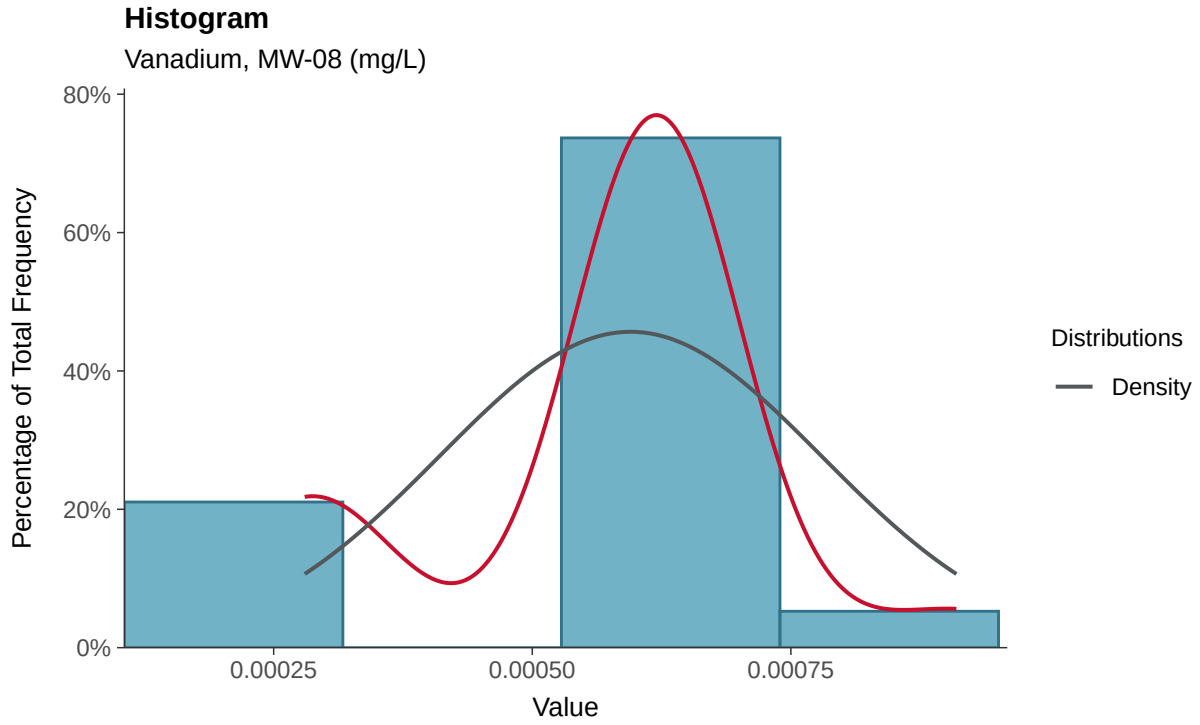
Silver, MW-08 (mg/L)



Part 115: Vanadium, MW-08

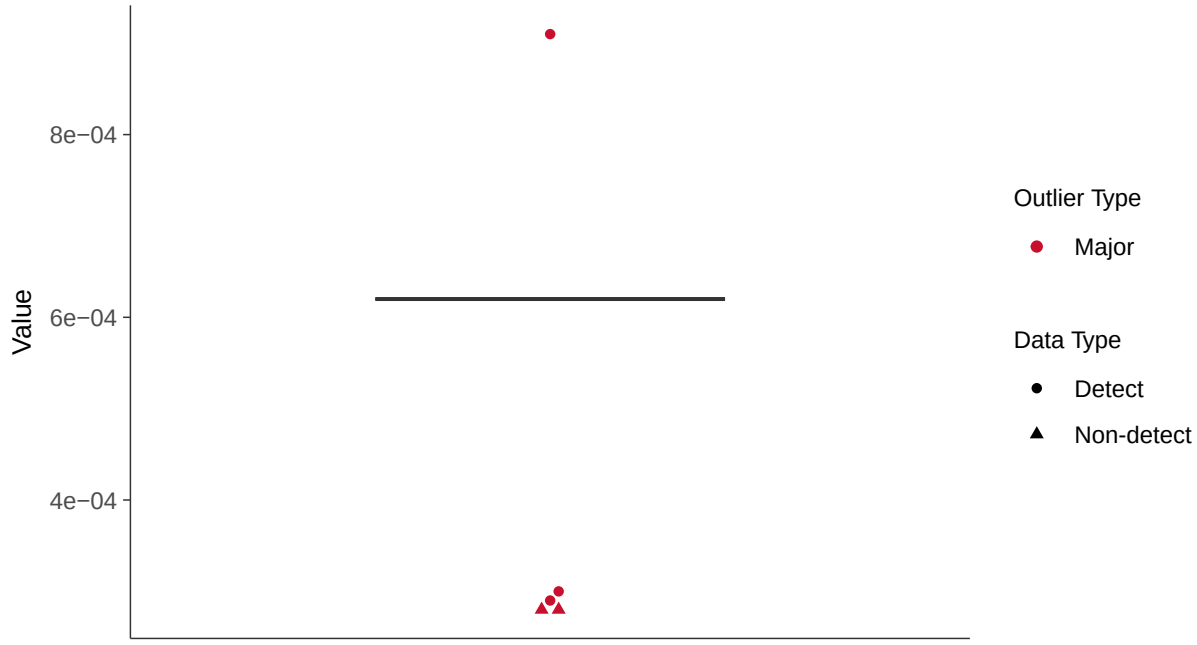
ID: 18_1_5_128





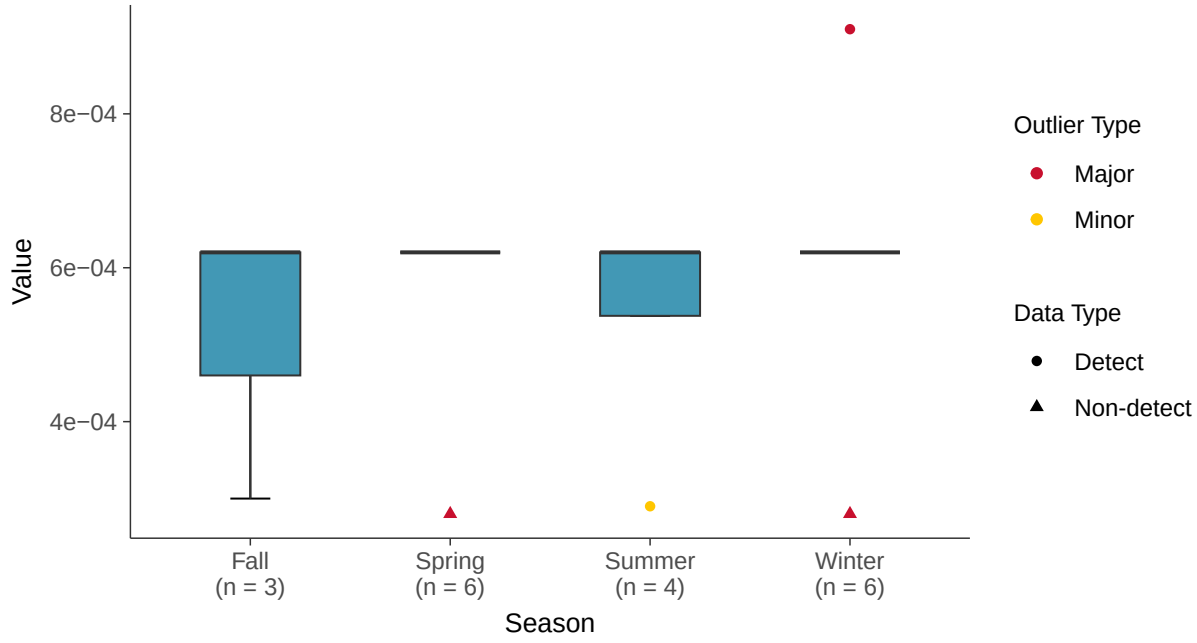
Boxplot

Vanadium, MW-08 (mg/L)



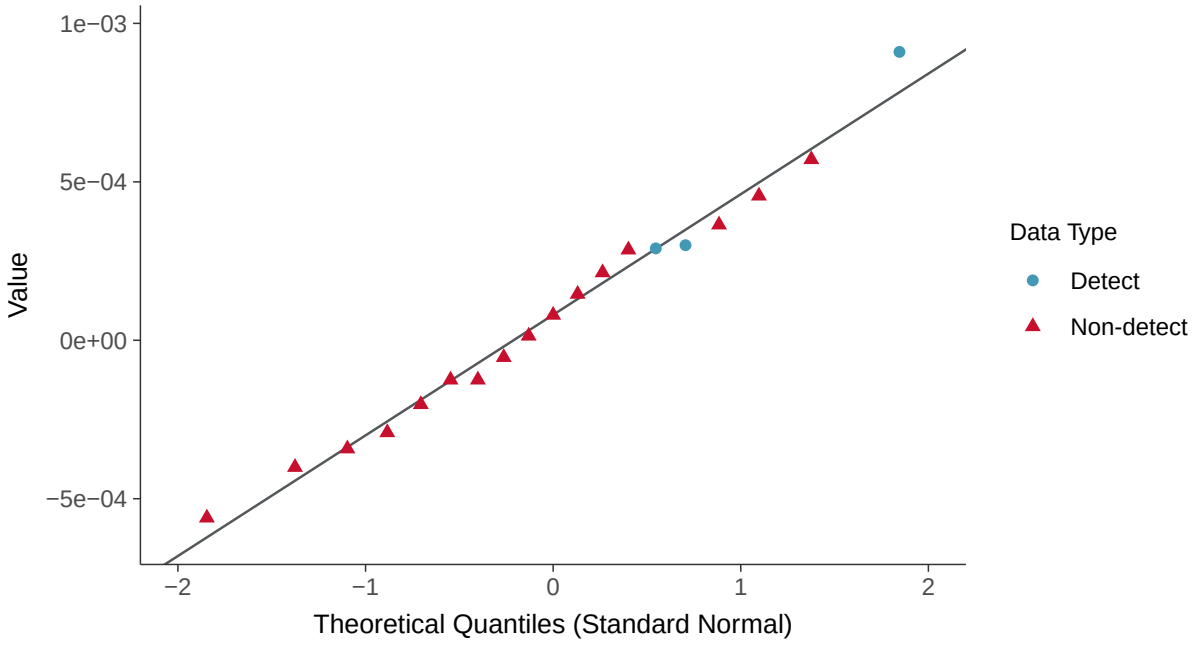
Boxplot by Season

Vanadium, MW-08 (mg/L)



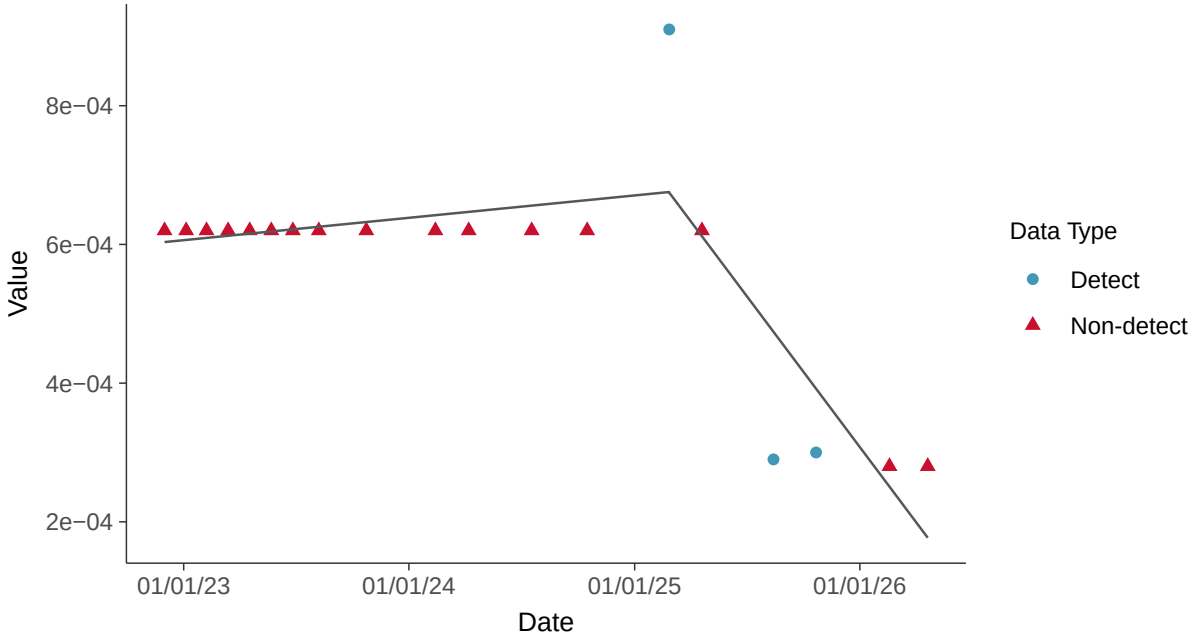
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-08 (mg/L)



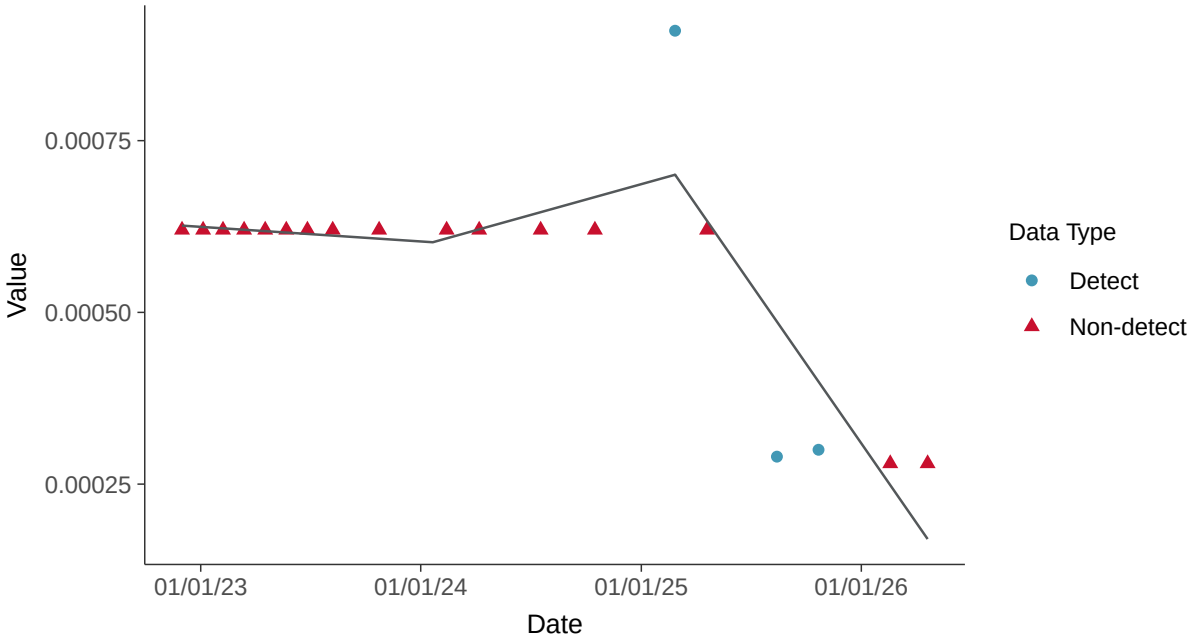
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-08 (mg/L)



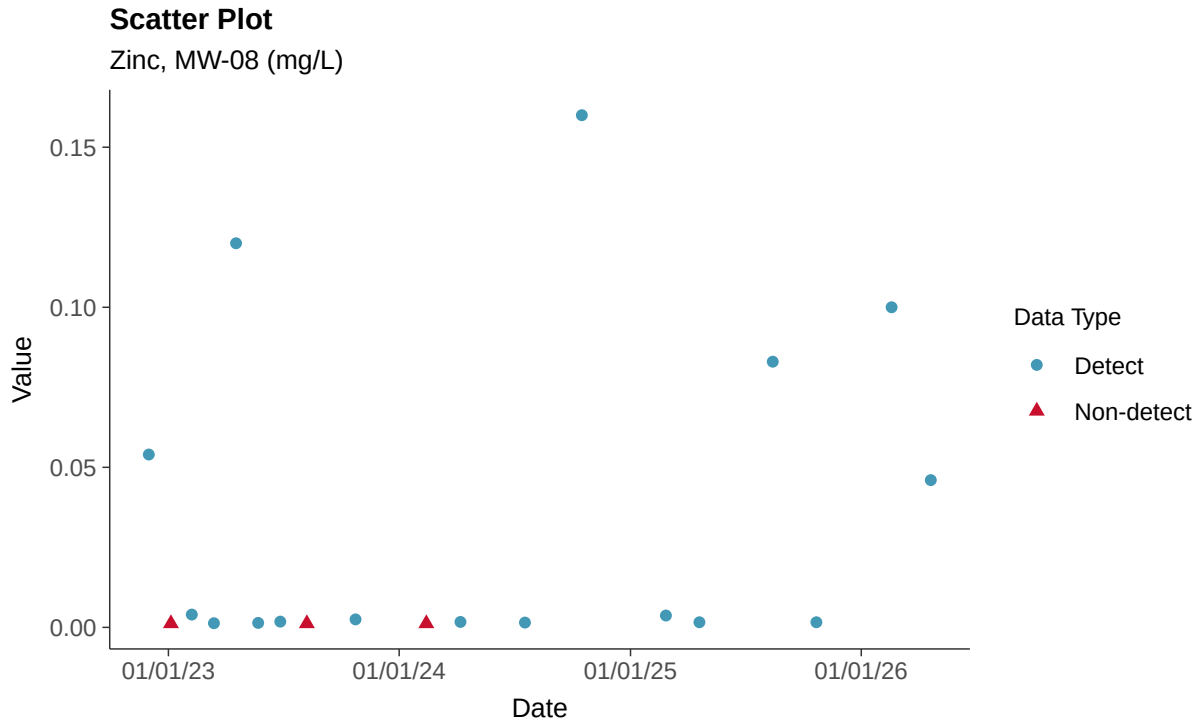
Trend Regression: Piecewise Linear-Linear-Linear

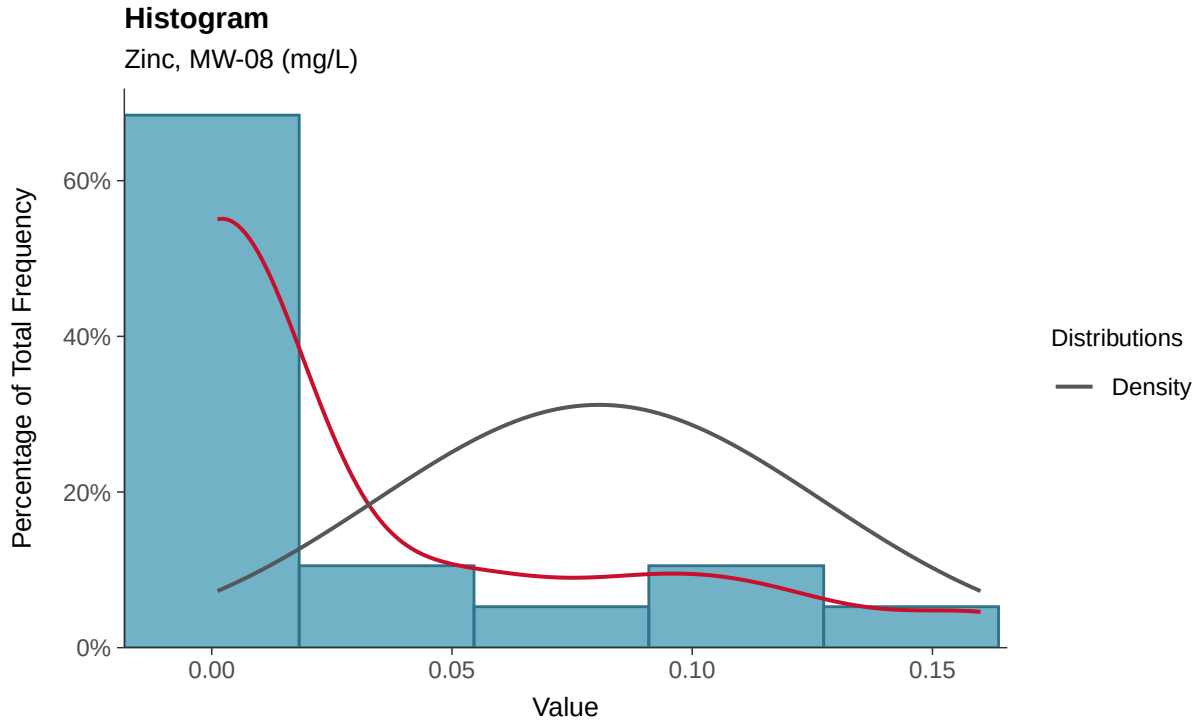
Vanadium, MW-08 (mg/L)



Part 115: Zinc, MW-08

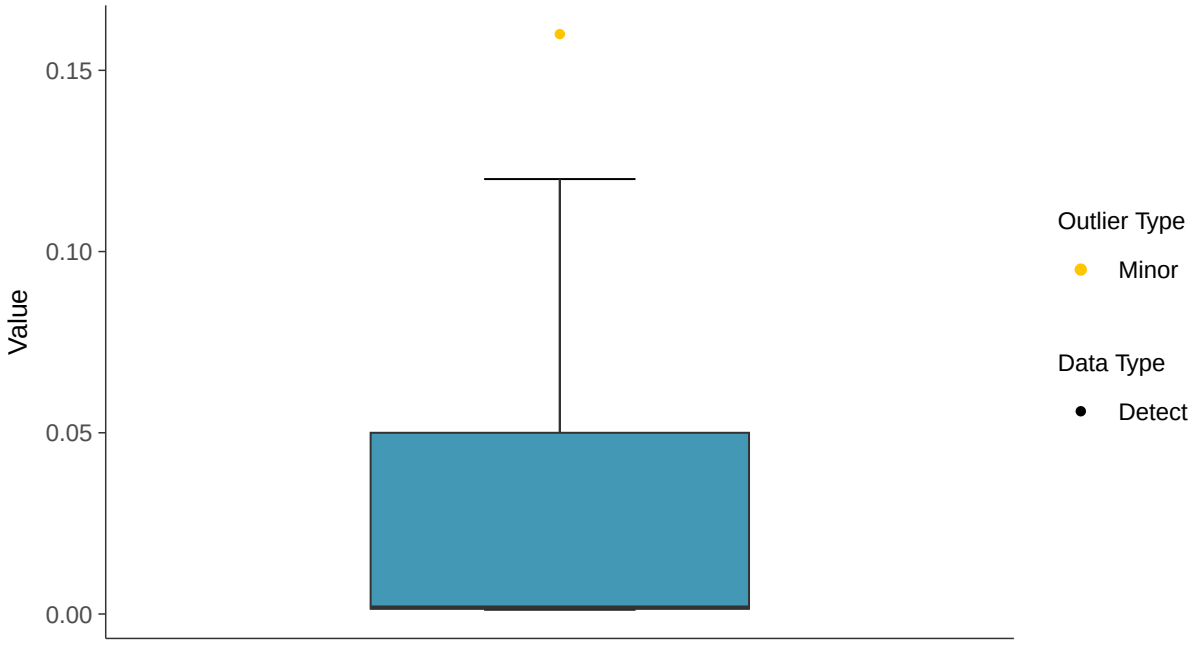
ID: 18_1_5_129





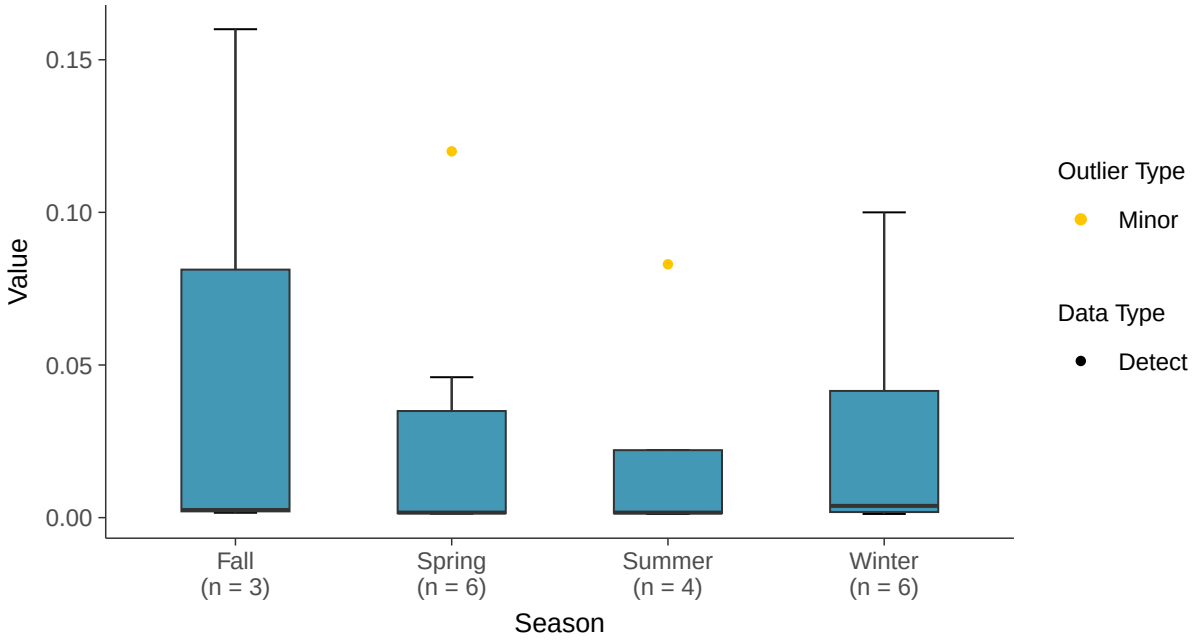
Boxplot

Zinc, MW-08 (mg/L)



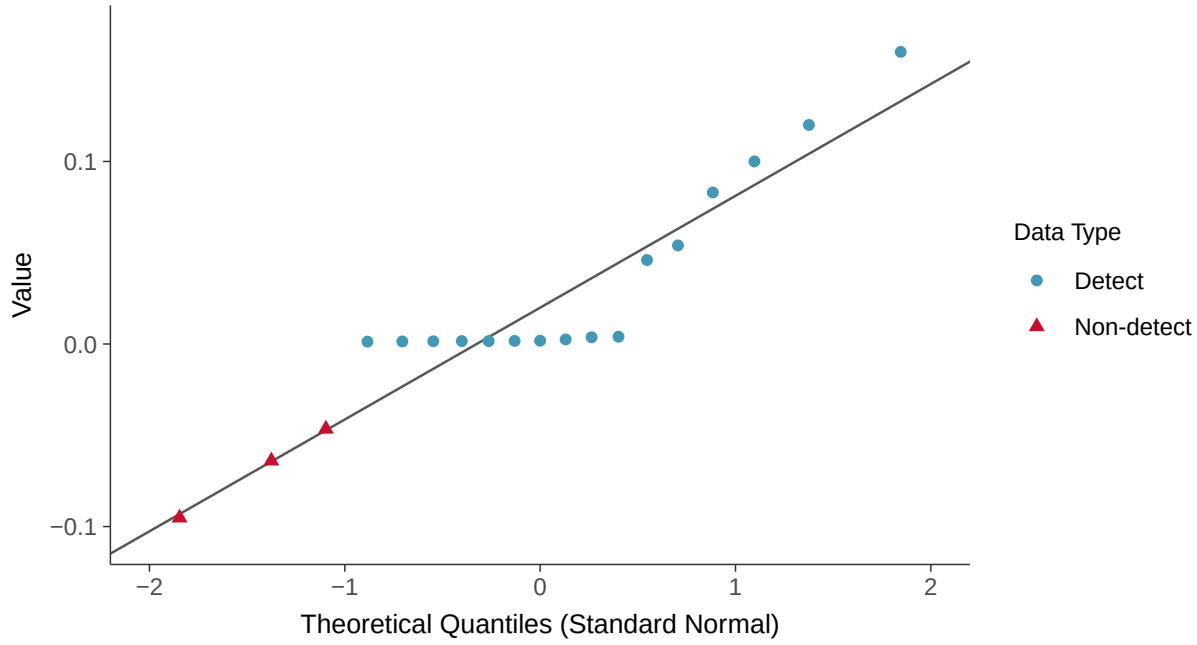
Boxplot by Season

Zinc, MW-08 (mg/L)



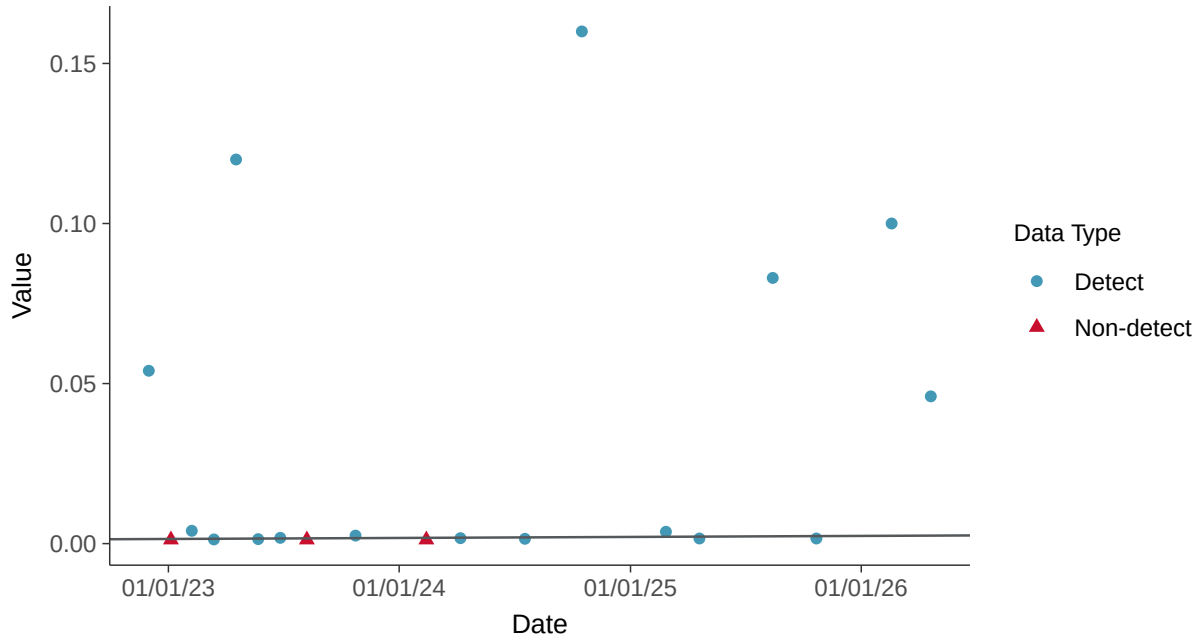
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-08 (mg/L)



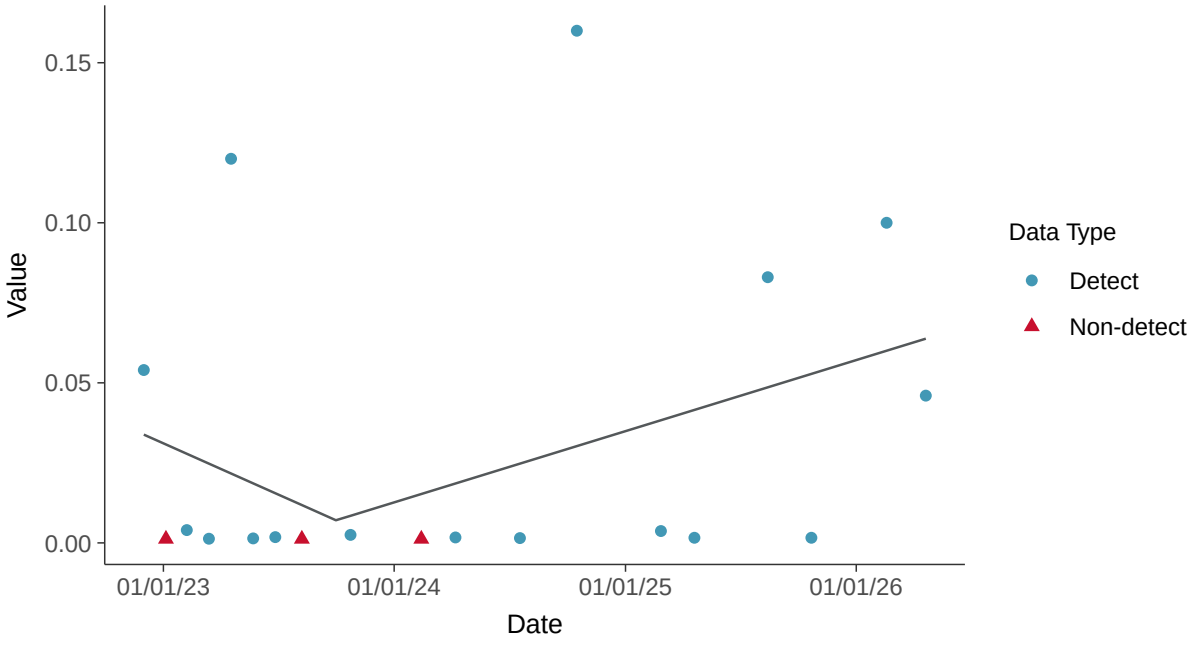
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-08 (mg/L)



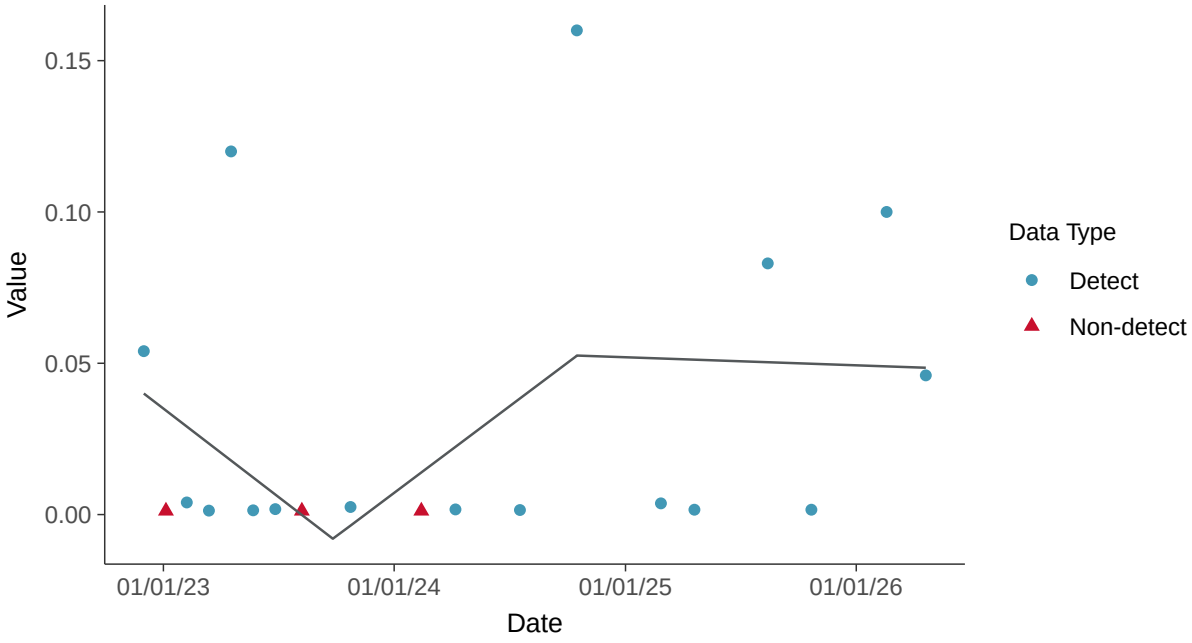
Trend Regression: Piecewise Linear-Linear

Zinc, MW-08 (mg/L)



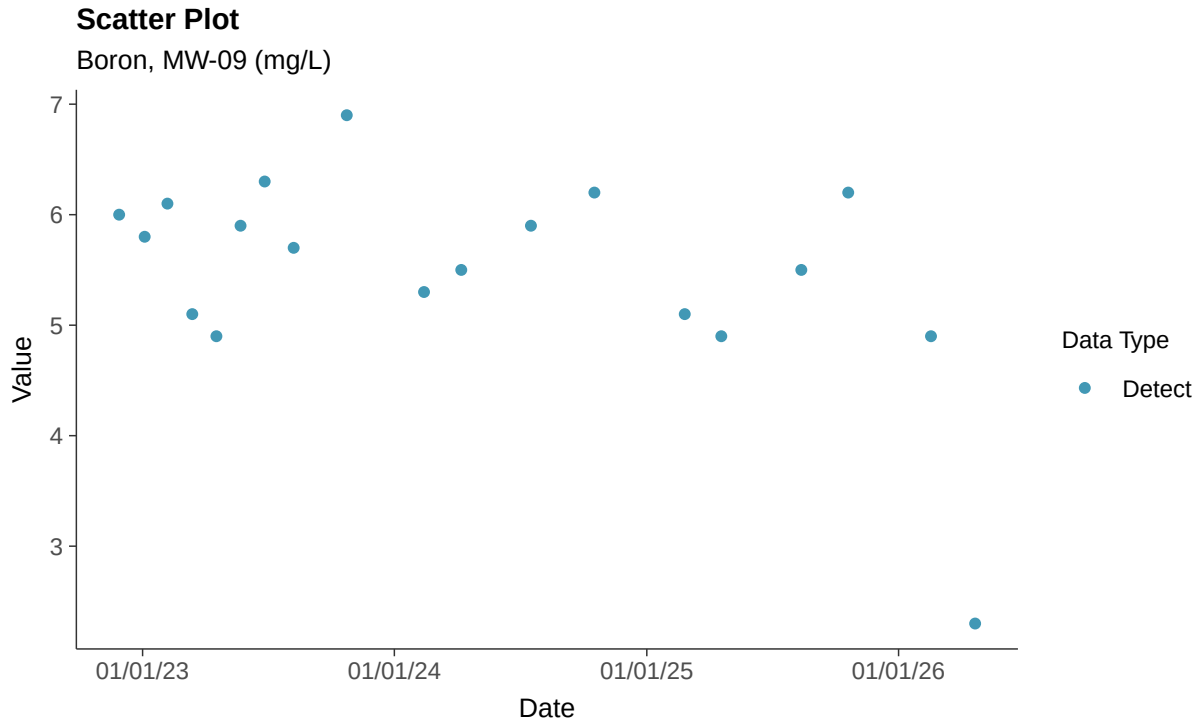
Trend Regression: Piecewise Linear-Linear-Linear

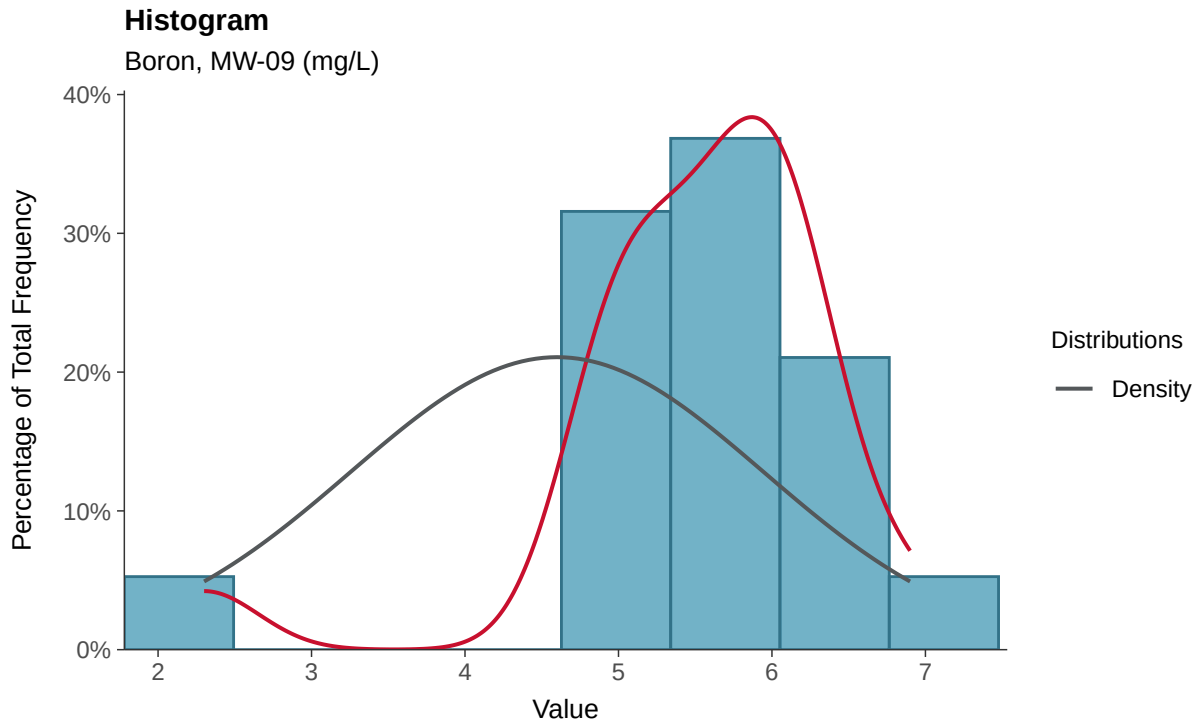
Zinc, MW-08 (mg/L)



Appendix III: Boron, MW-09

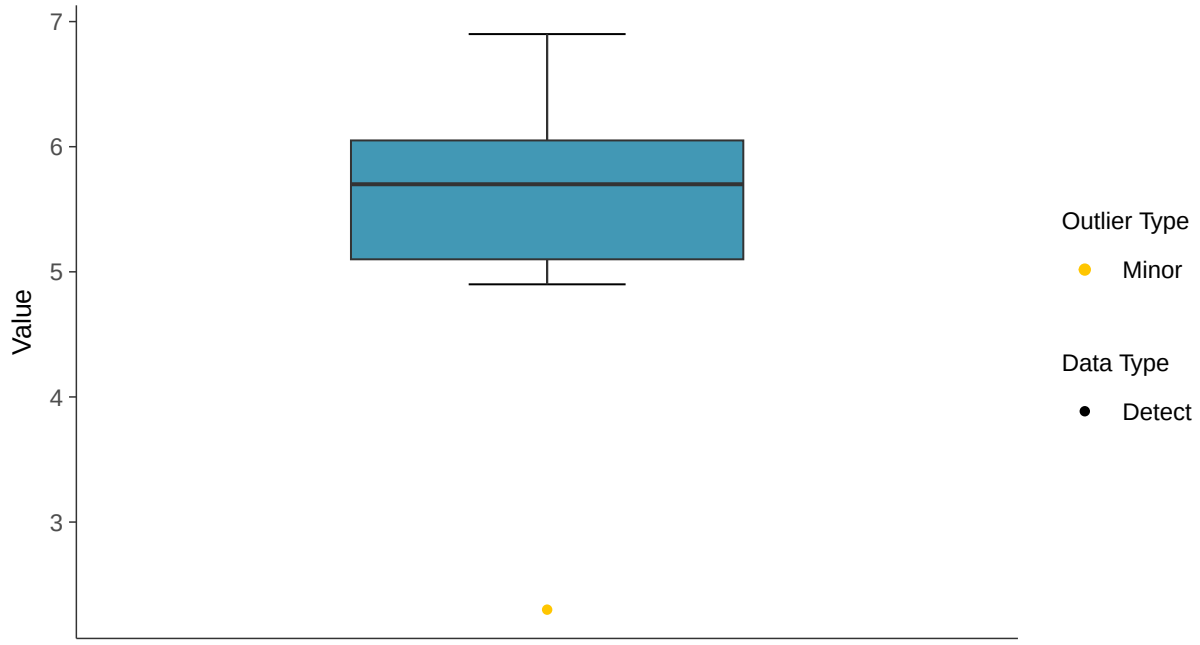
ID: 19_2_3_105





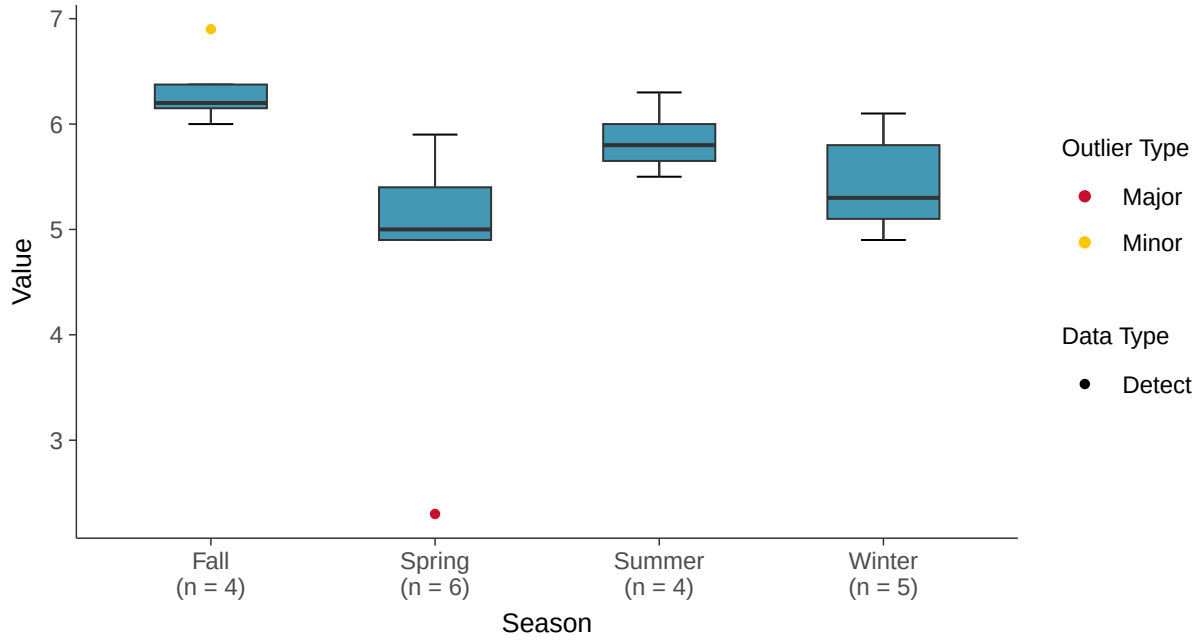
Boxplot

Boron, MW-09 (mg/L)



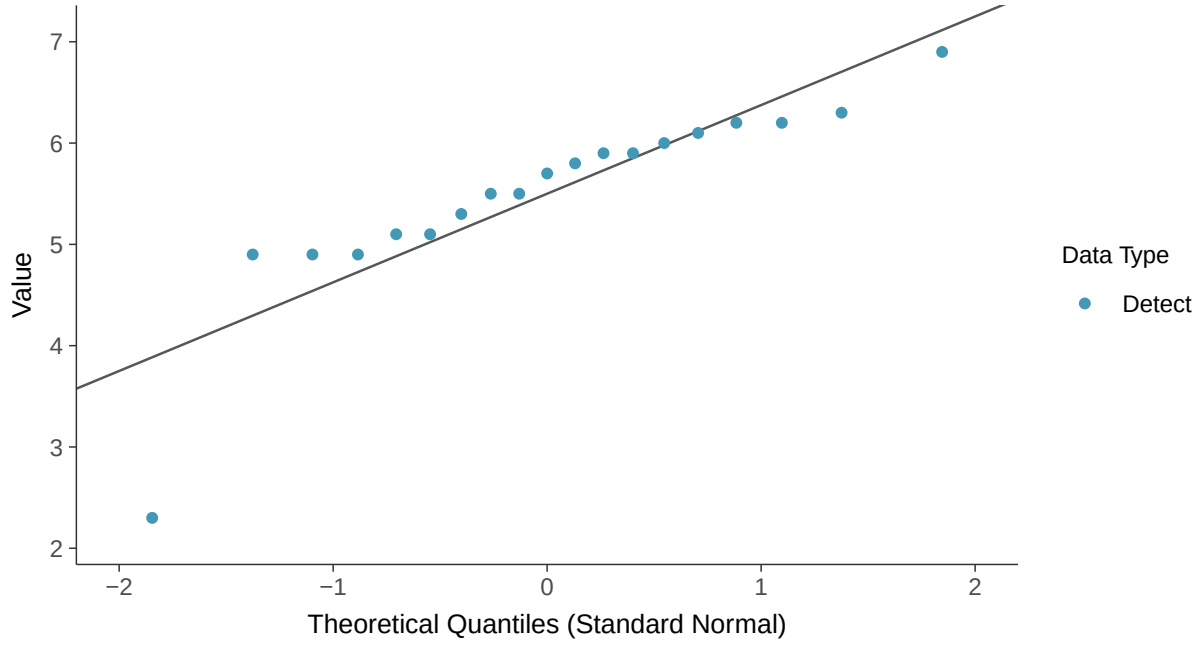
Boxplot by Season

Boron, MW-09 (mg/L)



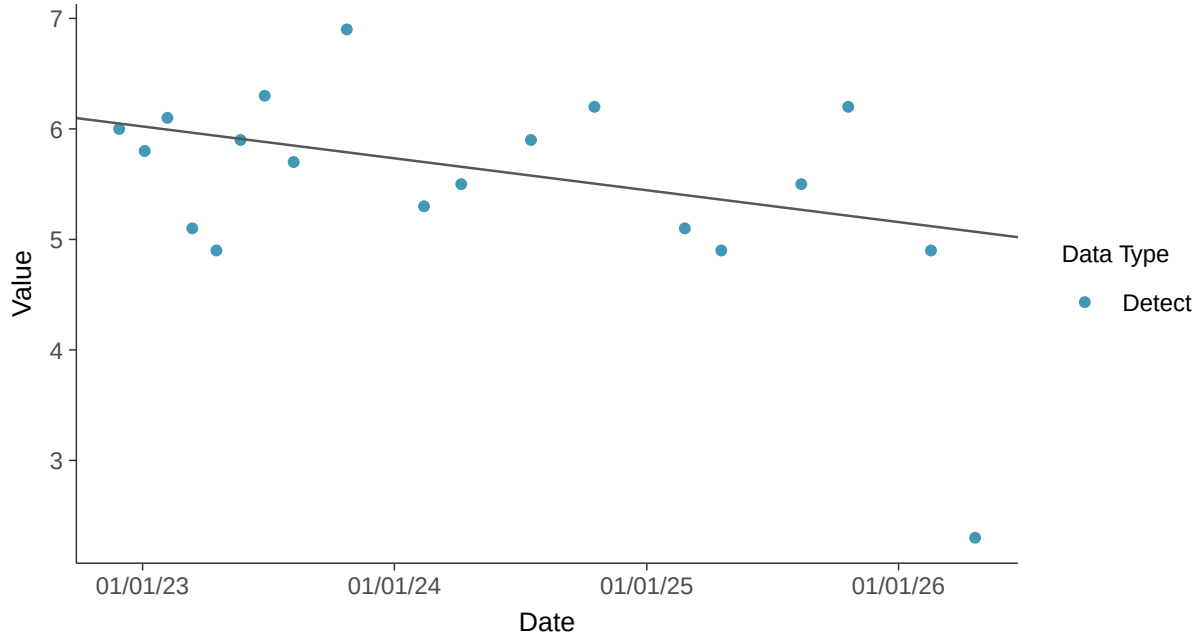
Normal Q-Q plot

Boron, MW-09 (mg/L)



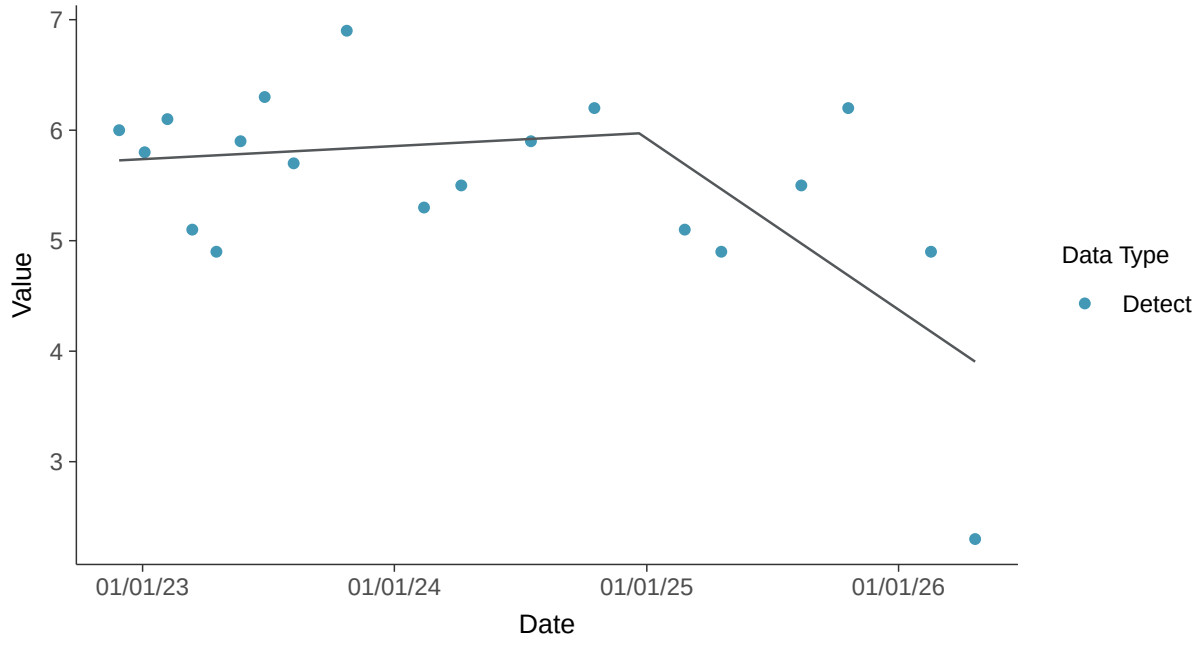
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Boron, MW-09 (mg/L)



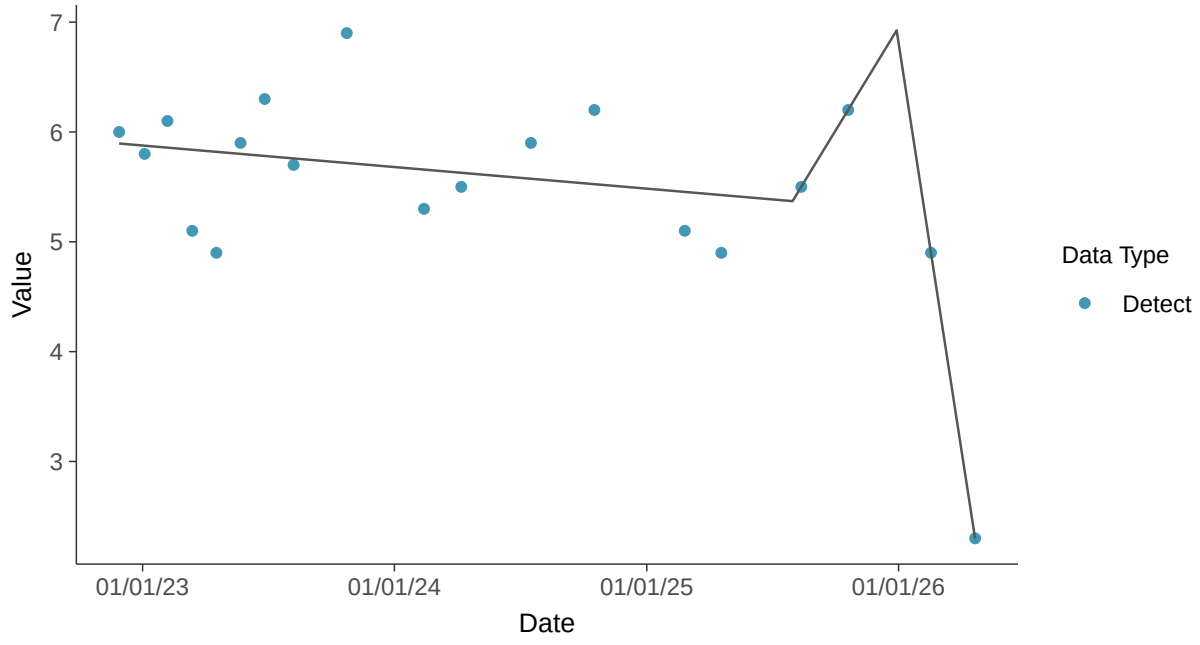
Trend Regression: Piecewise Linear-Linear

Boron, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-09 (mg/L)

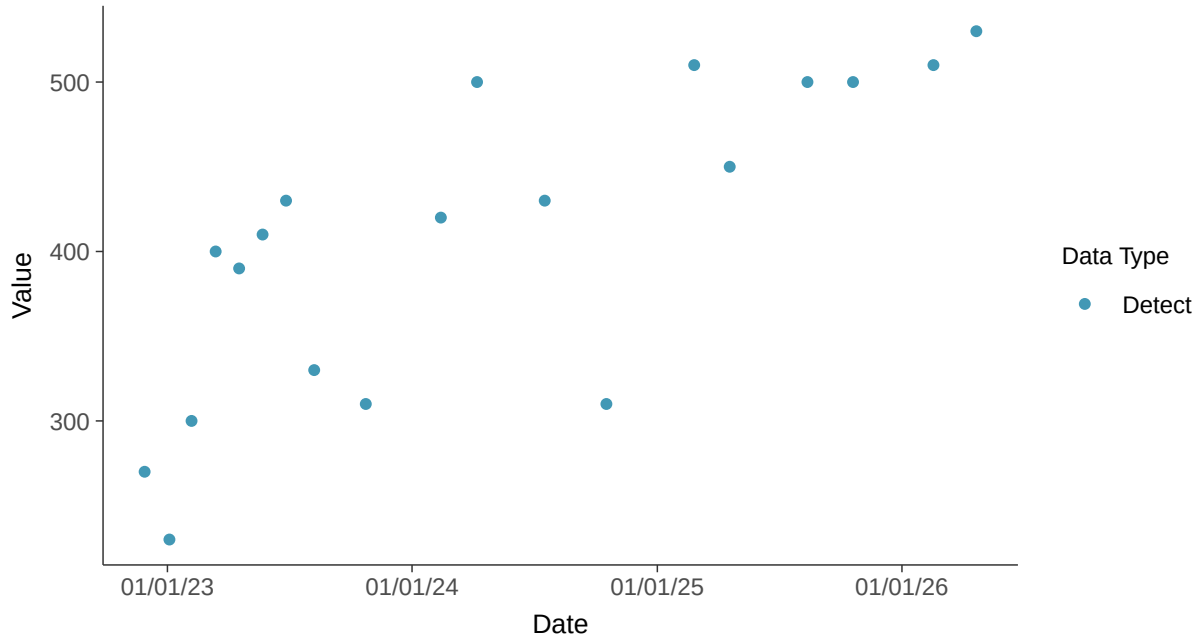


Appendix III: Calcium, MW-09

ID: 19_2_3_107

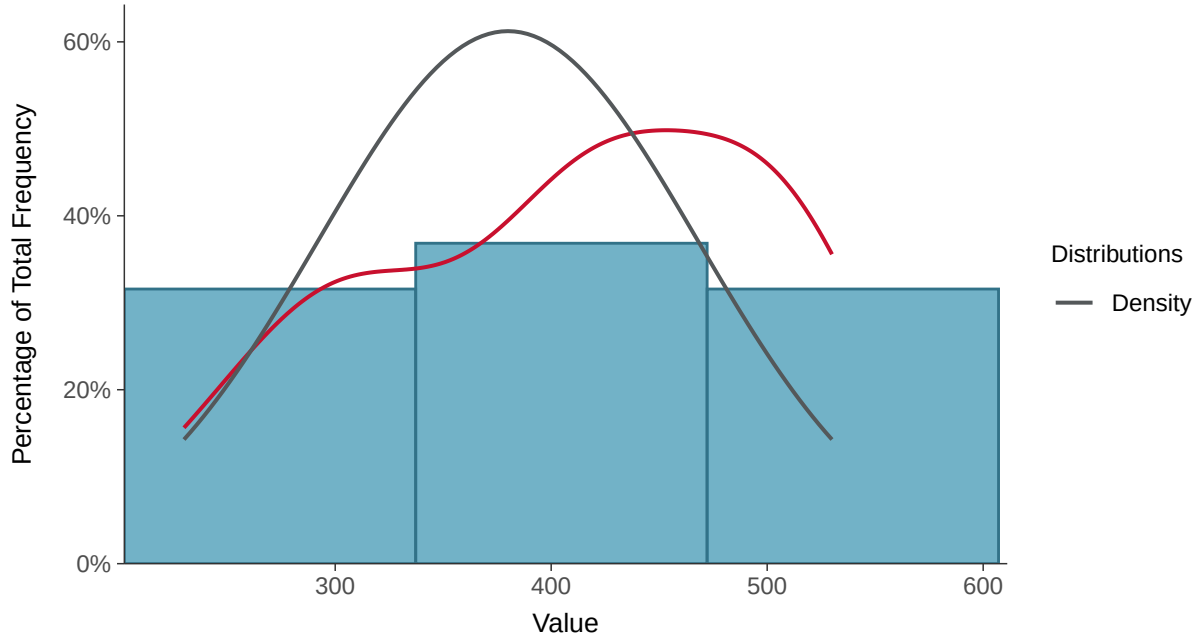
Scatter Plot

Calcium, MW-09 (mg/L)



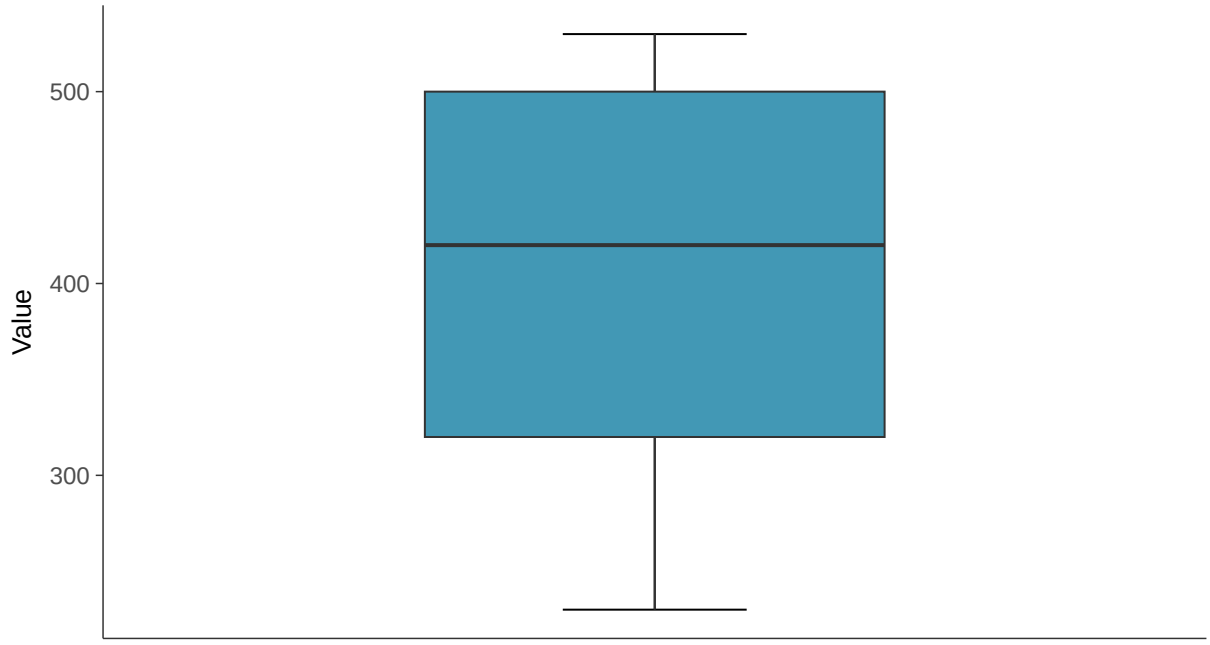
Histogram

Calcium, MW-09 (mg/L)



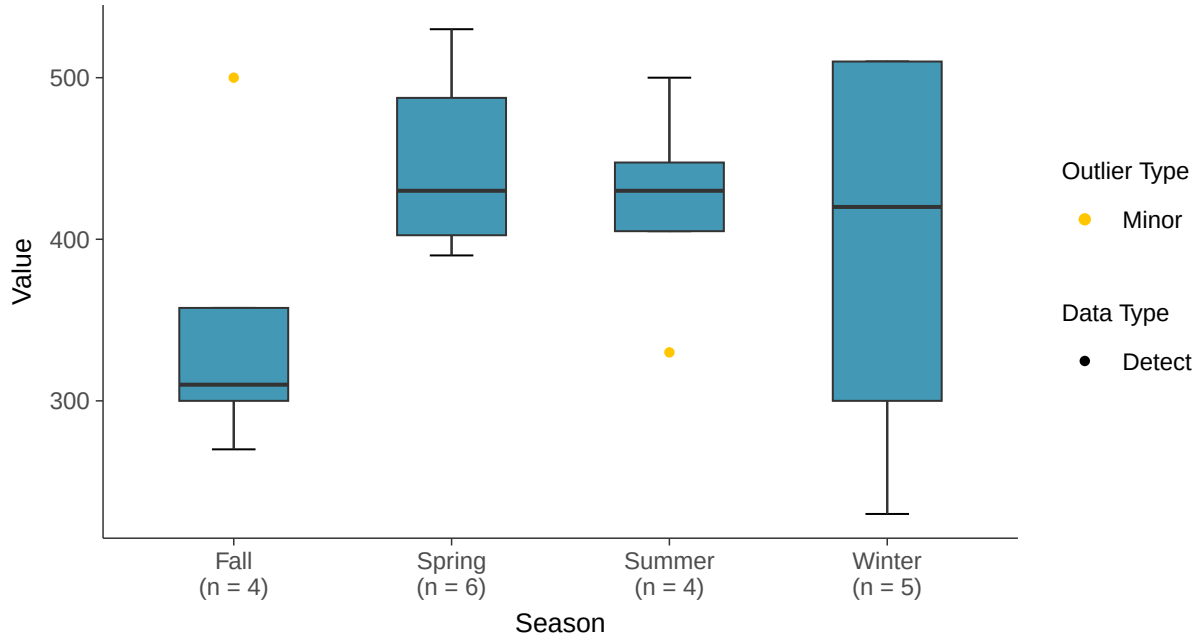
Boxplot

Calcium, MW-09 (mg/L)



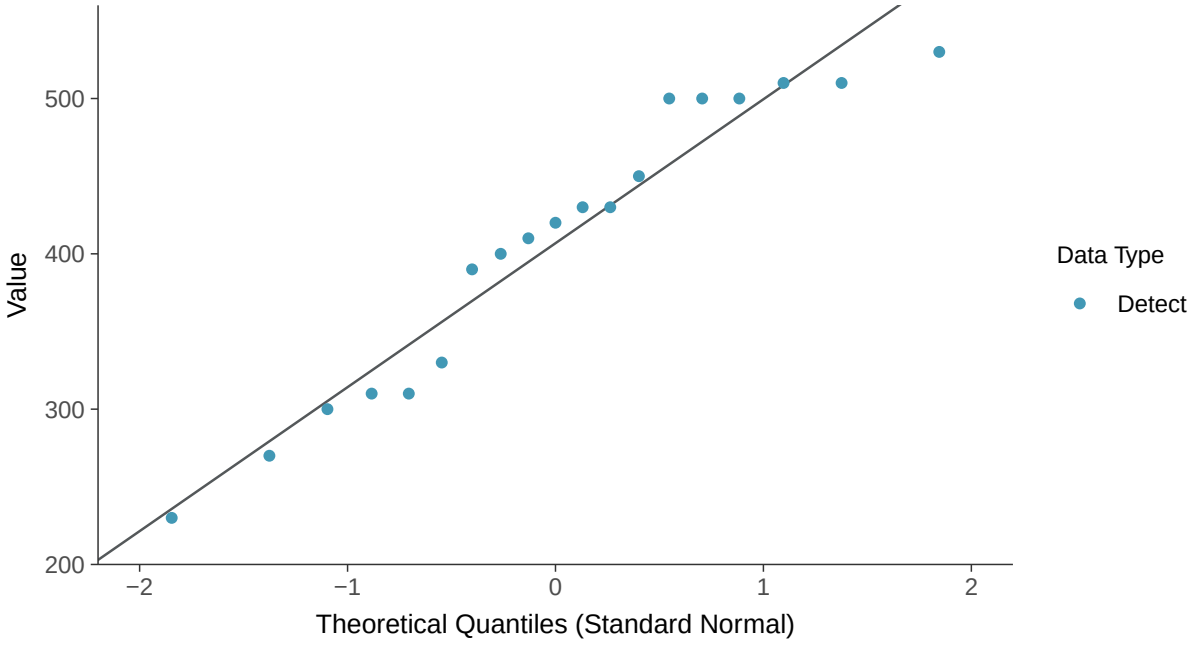
Boxplot by Season

Calcium, MW-09 (mg/L)



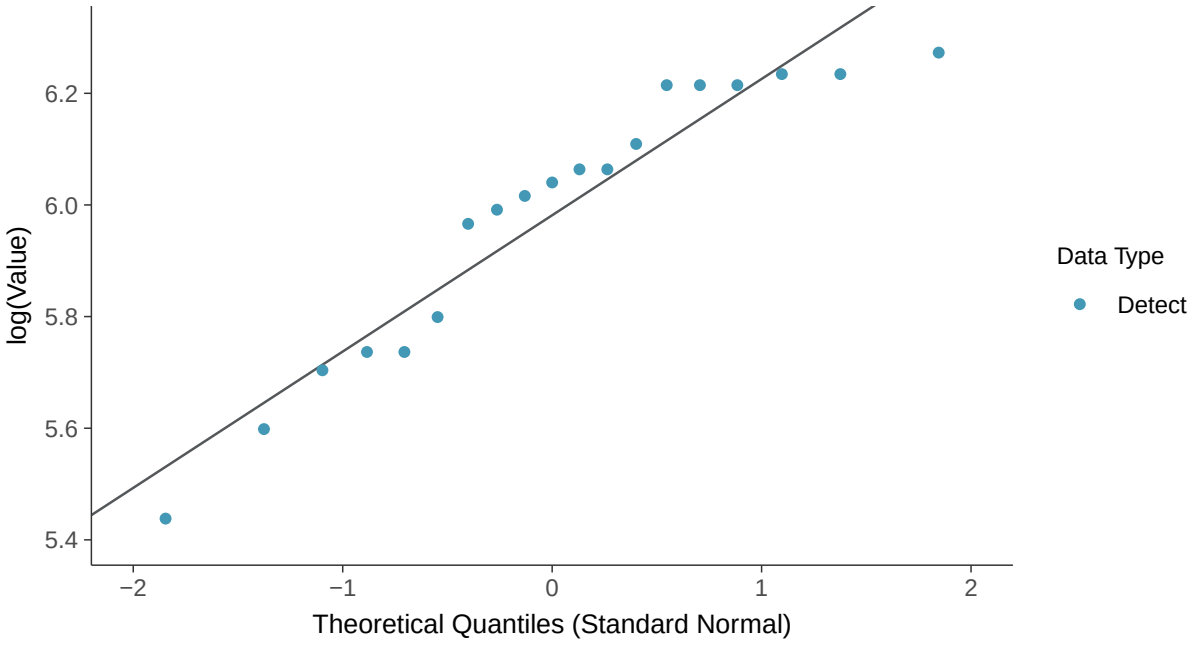
Normal Q-Q plot

Calcium, MW-09 (mg/L)



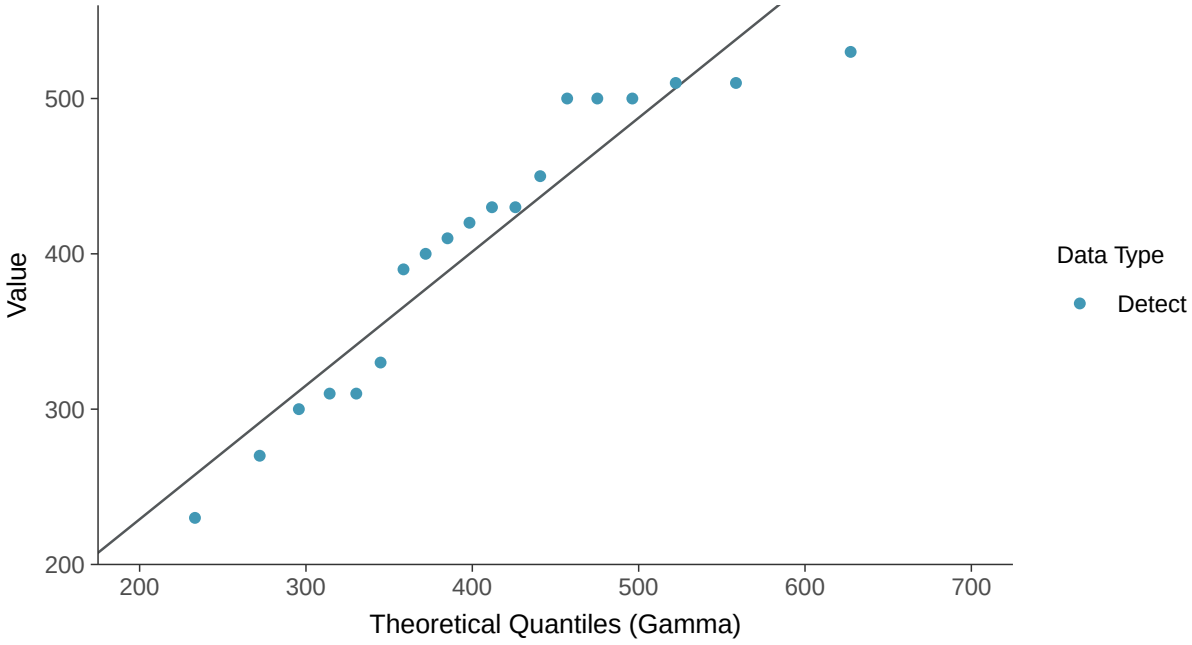
Lognormal Q-Q plot

Calcium, MW-09 (mg/L)



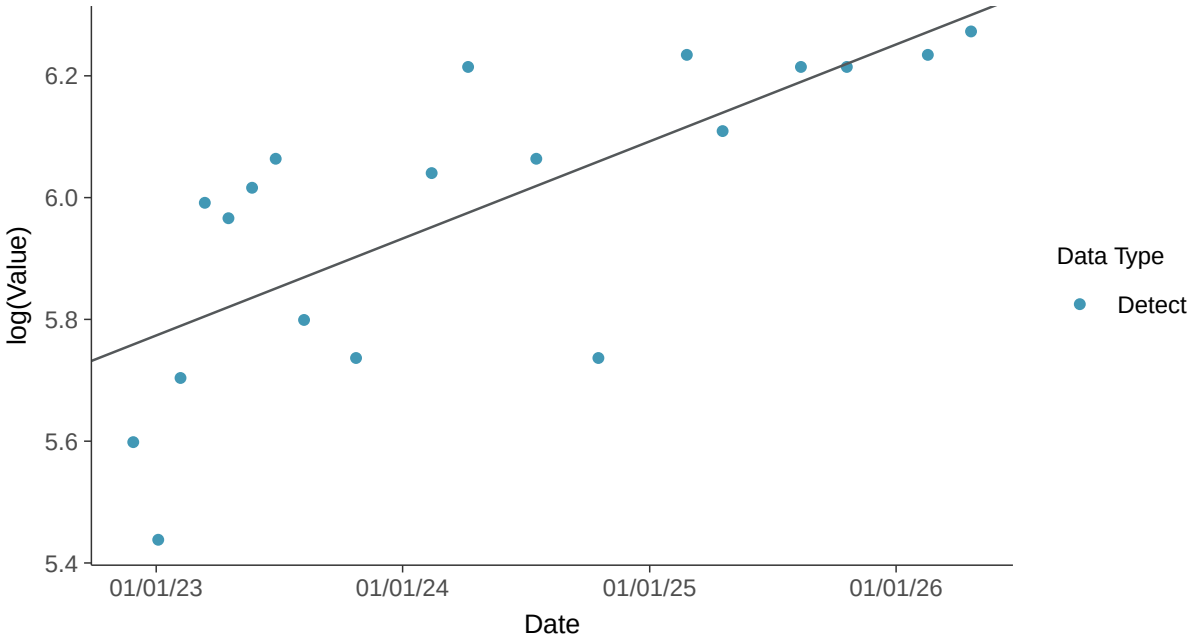
Gamma Q-Q plot

Calcium, MW-09 (mg/L)



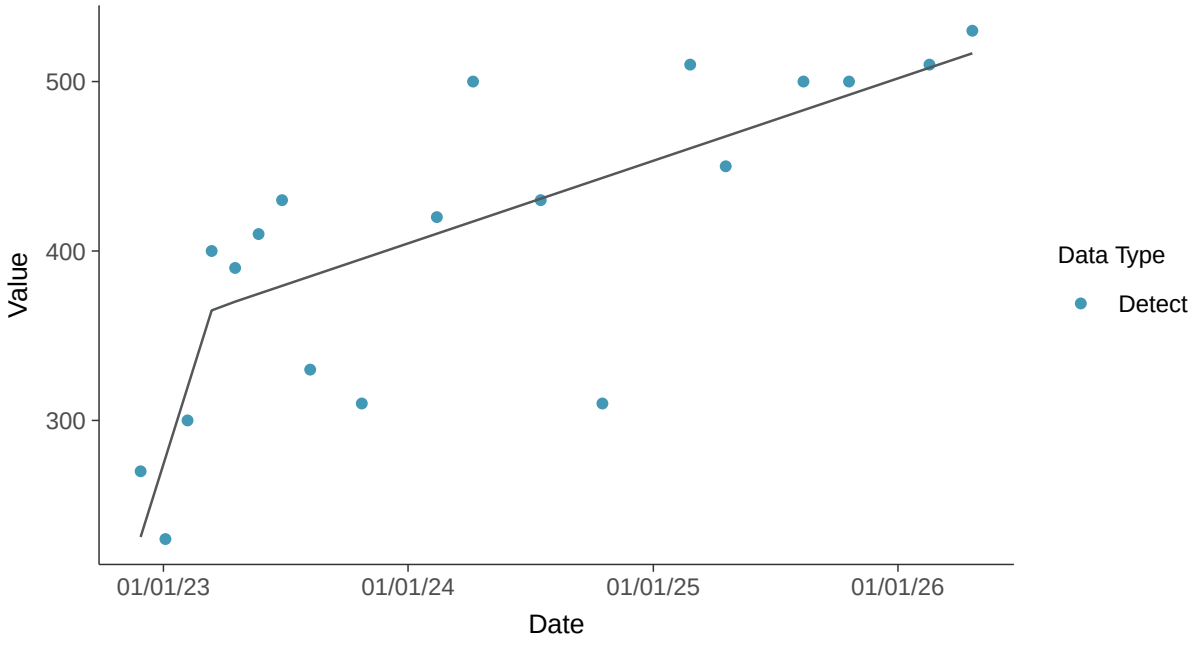
Trend Regression: Lognormal MLE

Calcium, MW-09 (mg/L)



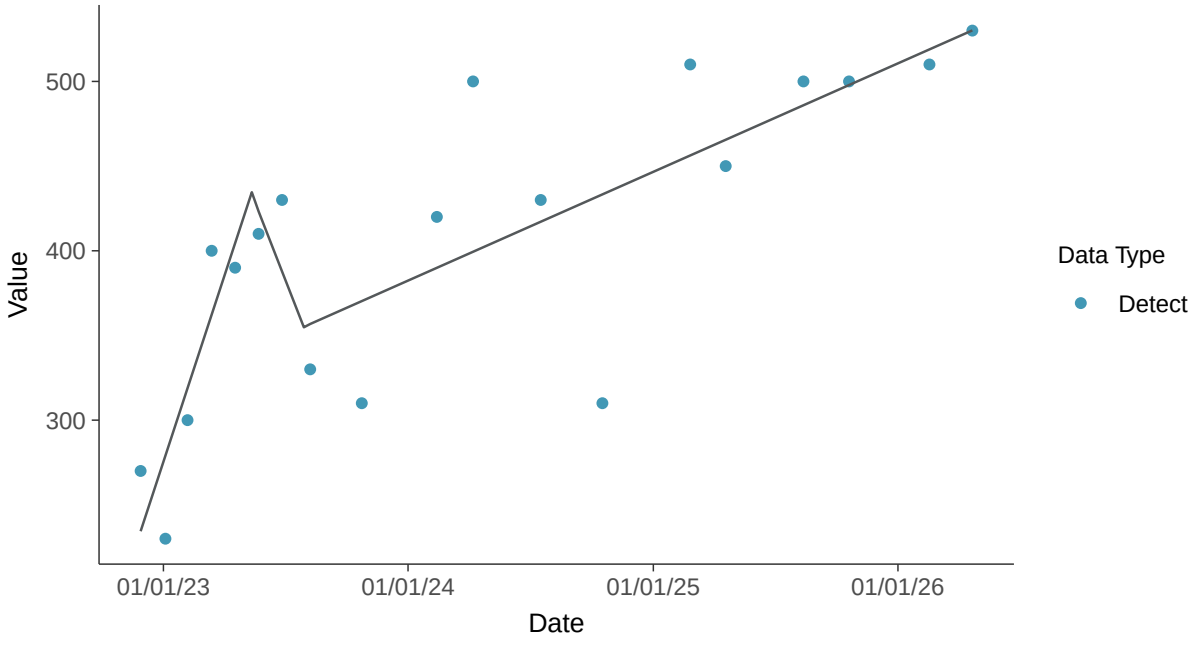
Trend Regression: Piecewise Linear-Linear

Calcium, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-09 (mg/L)

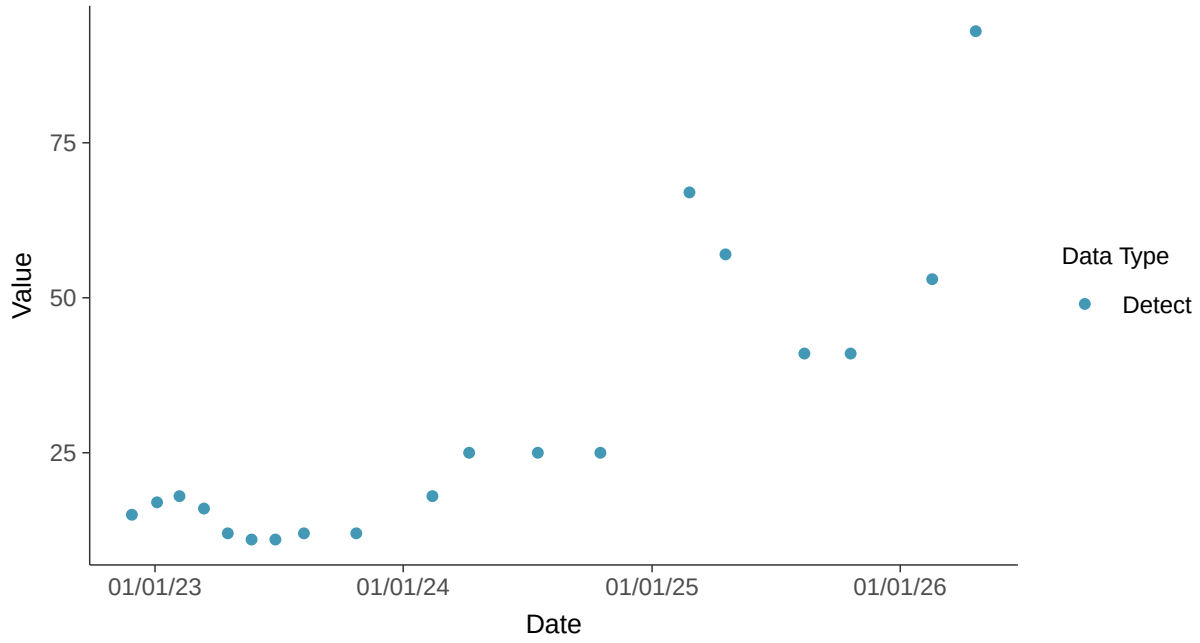


Appendix III: Chloride (as Cl), MW-09

ID: 19_2_3_108

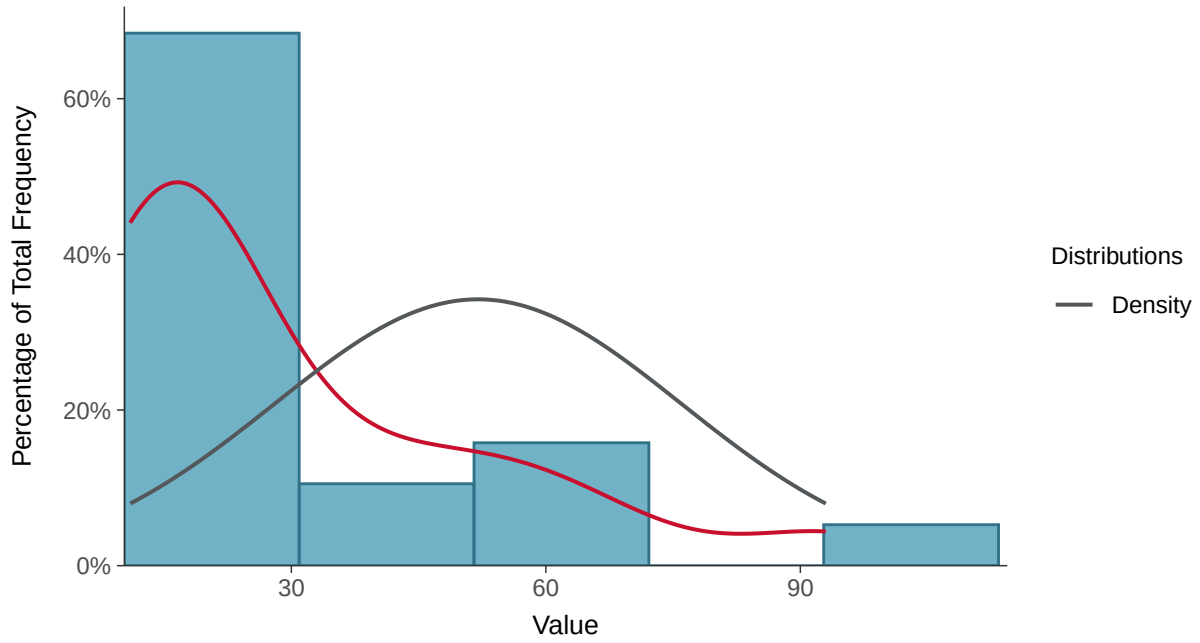
Scatter Plot

Chloride (as Cl), MW-09 (mg/L)



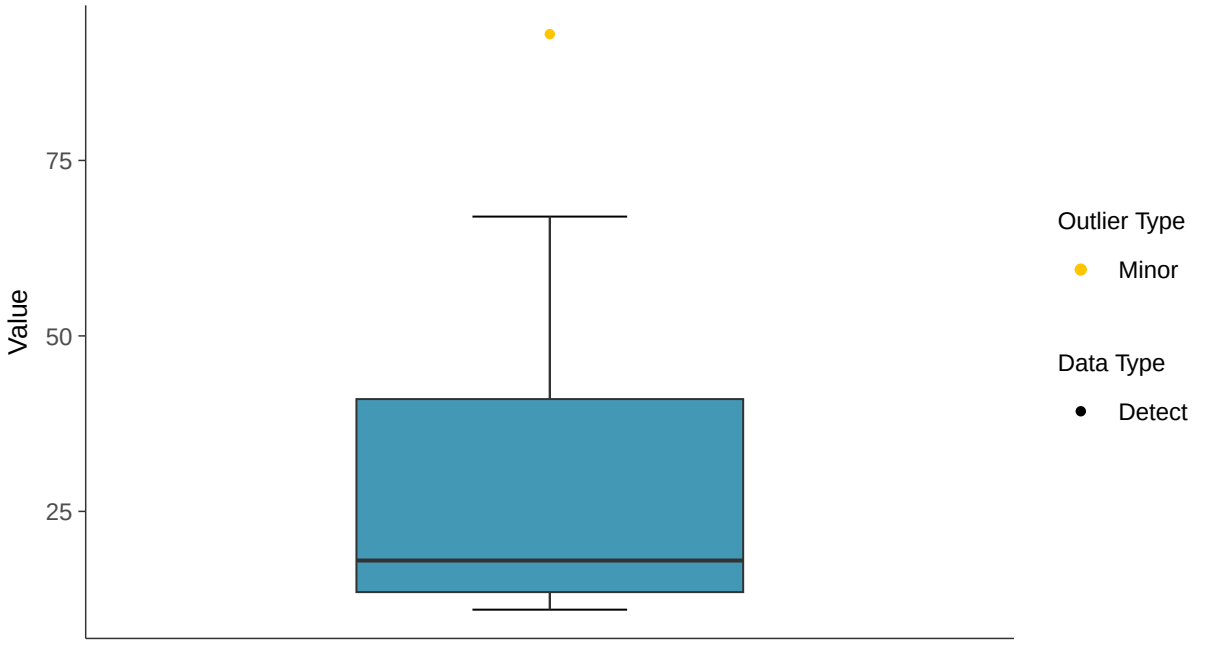
Histogram

Chloride (as Cl), MW-09 (mg/L)



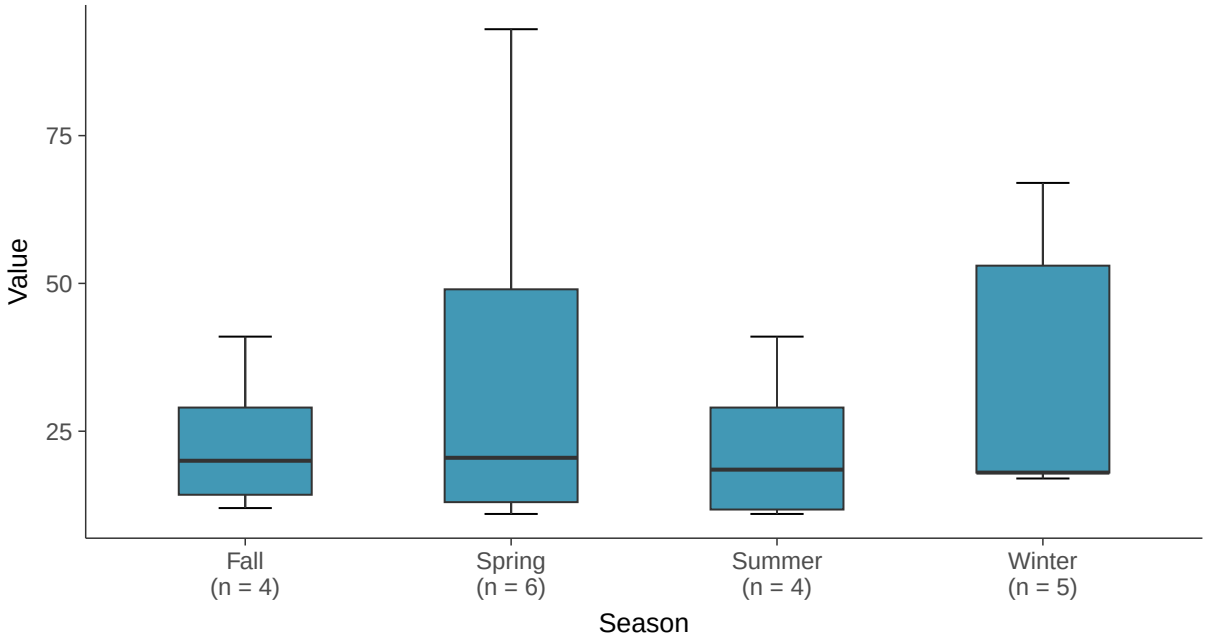
Boxplot

Chloride (as Cl), MW-09 (mg/L)



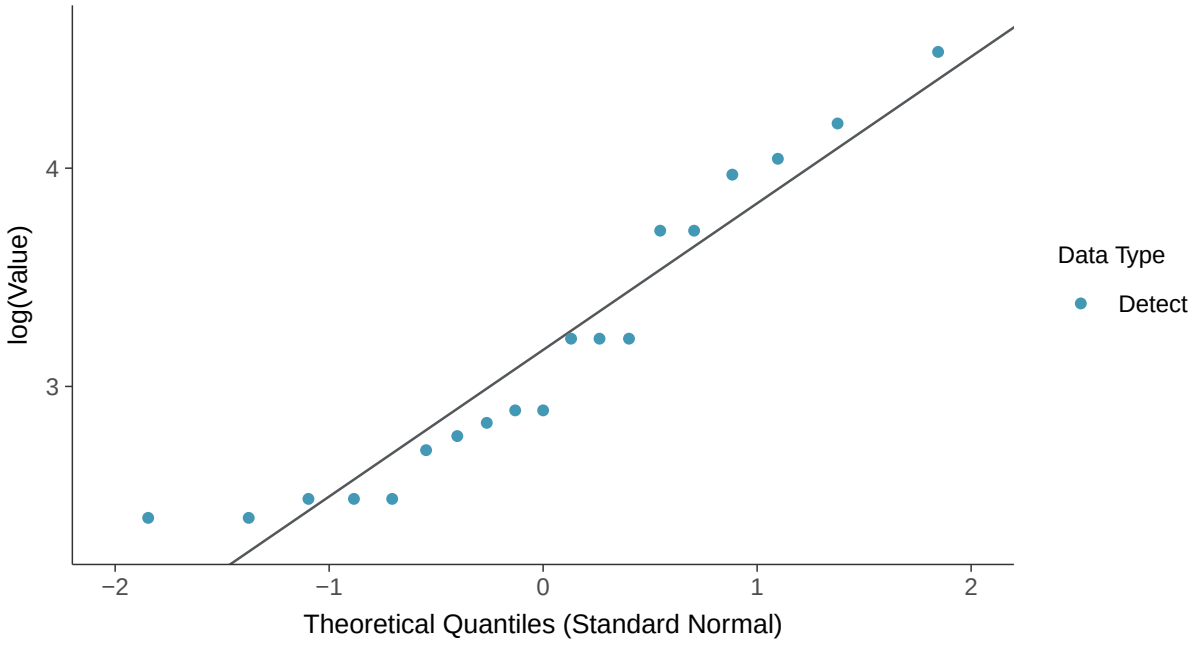
Boxplot by Season

Chloride (as Cl), MW-09 (mg/L)



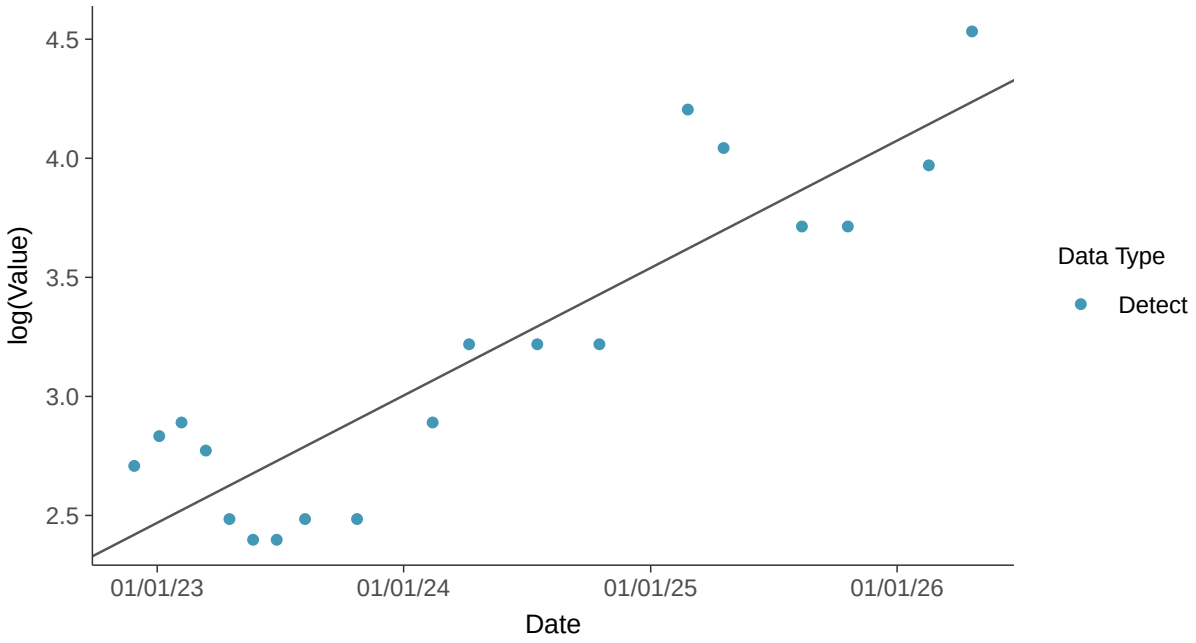
Lognormal Q-Q plot

Chloride (as Cl), MW-09 (mg/L)



Trend Regression: Lognormal MLE

Chloride (as Cl), MW-09 (mg/L)

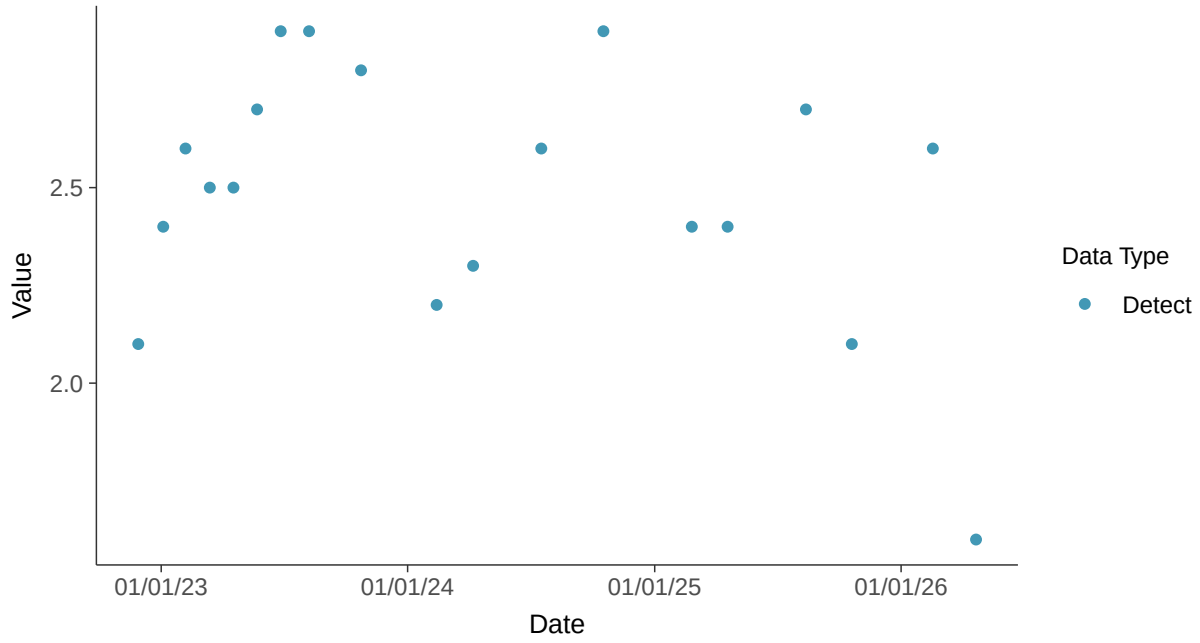


Appendix III: Fluoride, MW-09

ID: 19_2_3_112

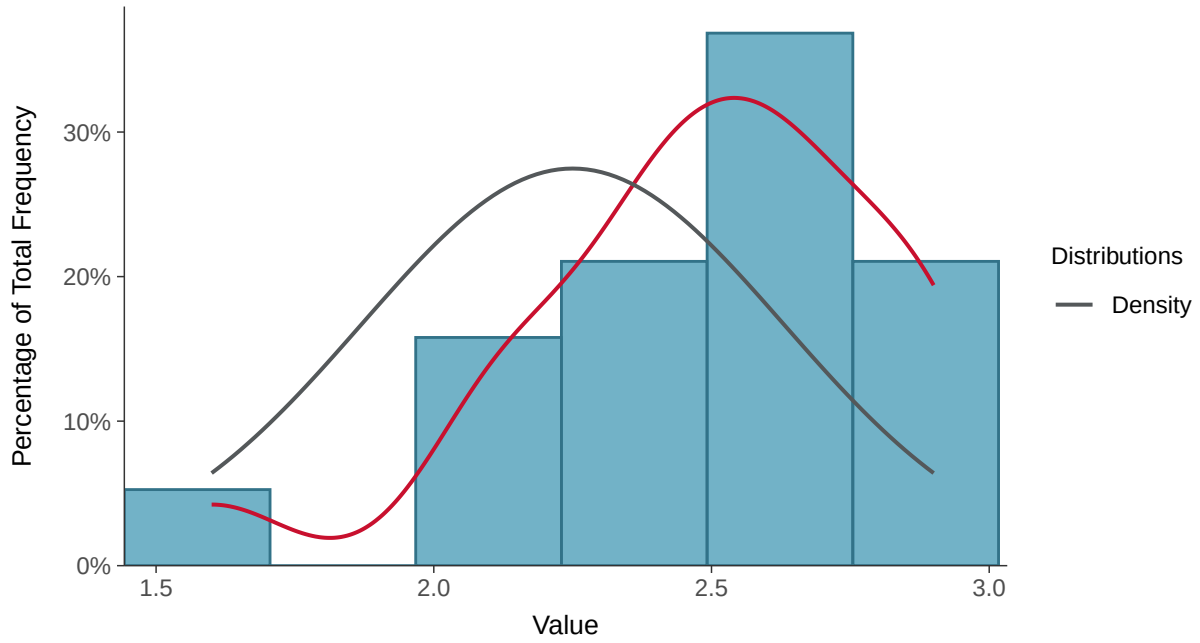
Scatter Plot

Fluoride, MW-09 (mg/L)



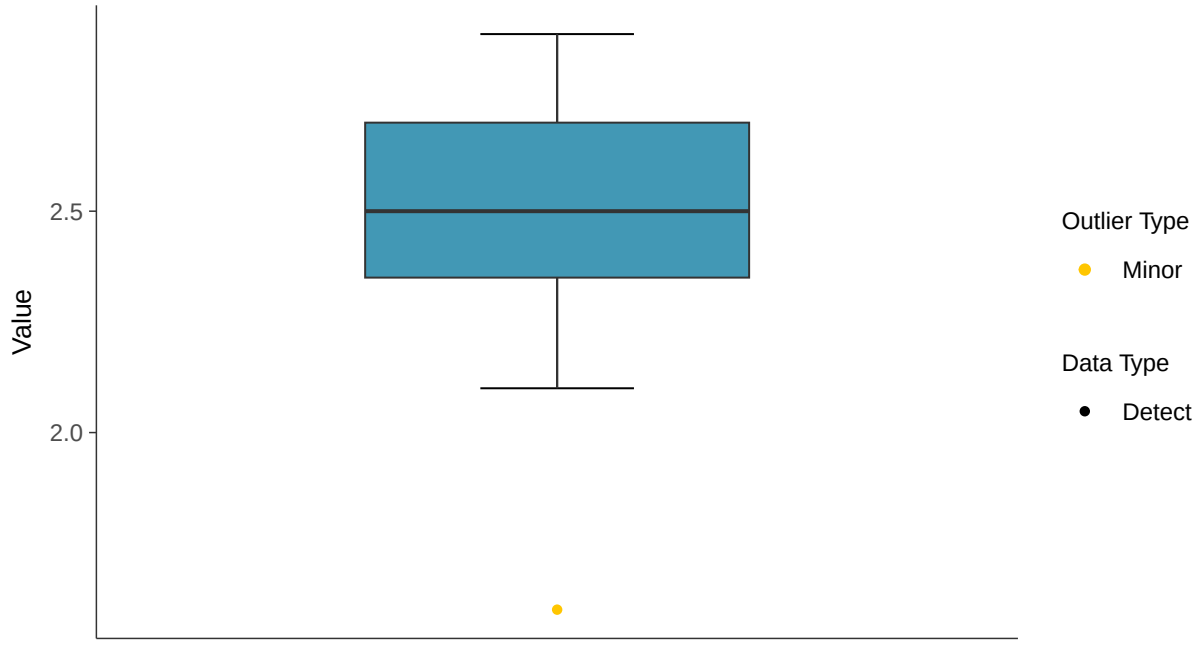
Histogram

Fluoride, MW-09 (mg/L)



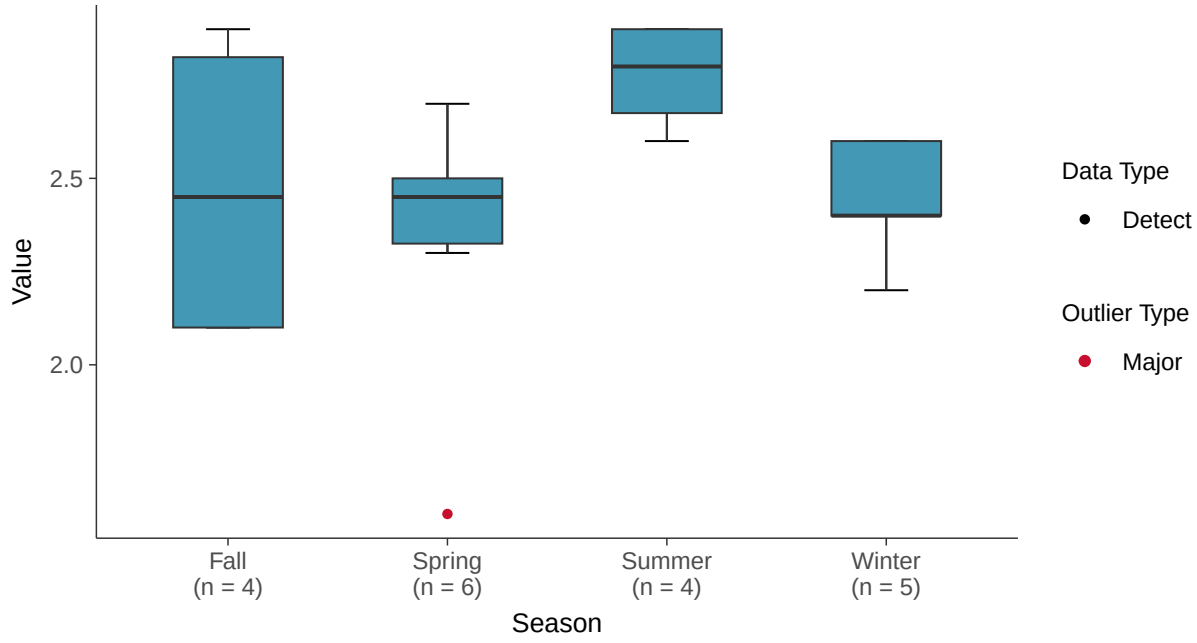
Boxplot

Fluoride, MW-09 (mg/L)



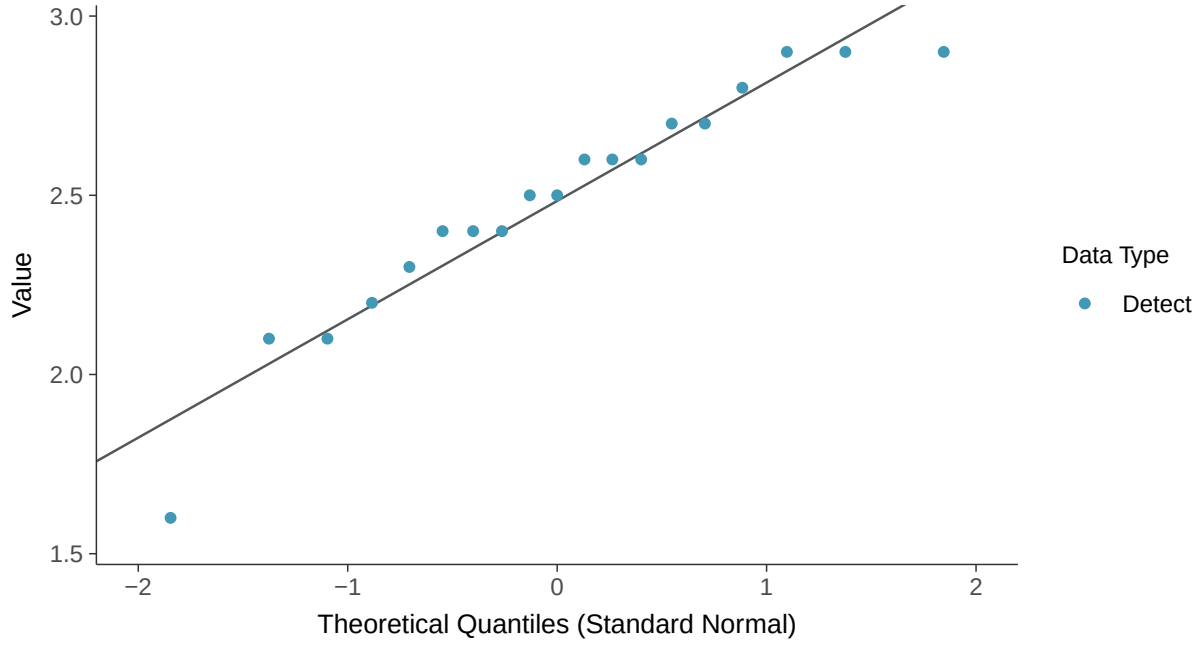
Boxplot by Season

Fluoride, MW-09 (mg/L)



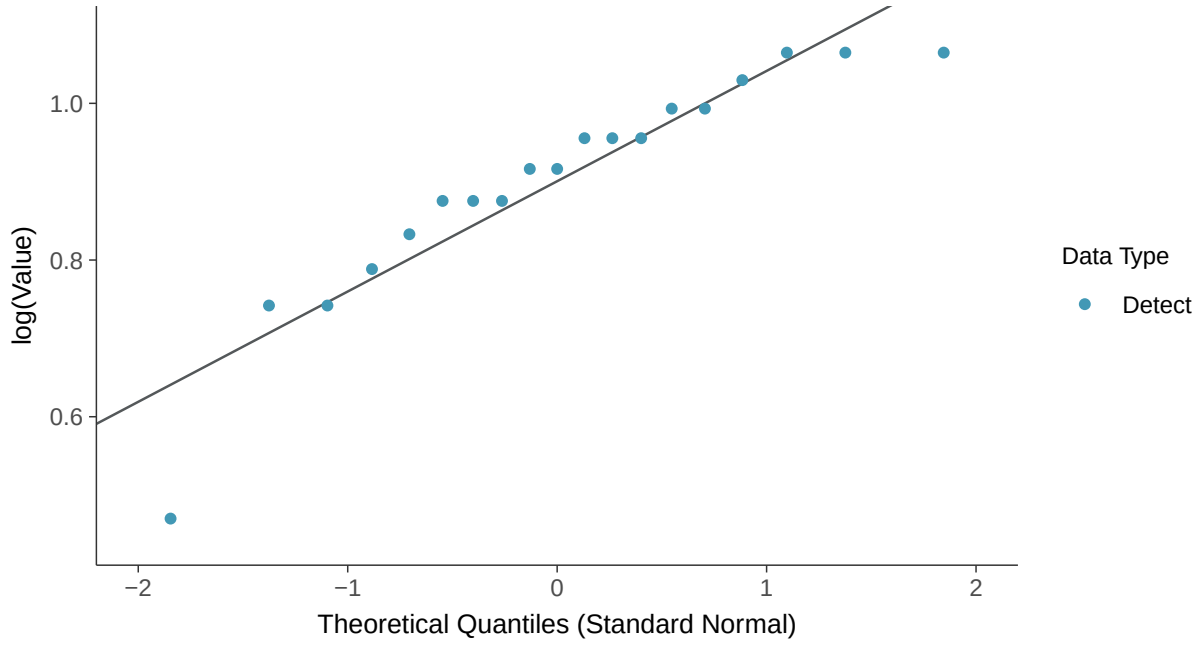
Normal Q-Q plot

Fluoride, MW-09 (mg/L)



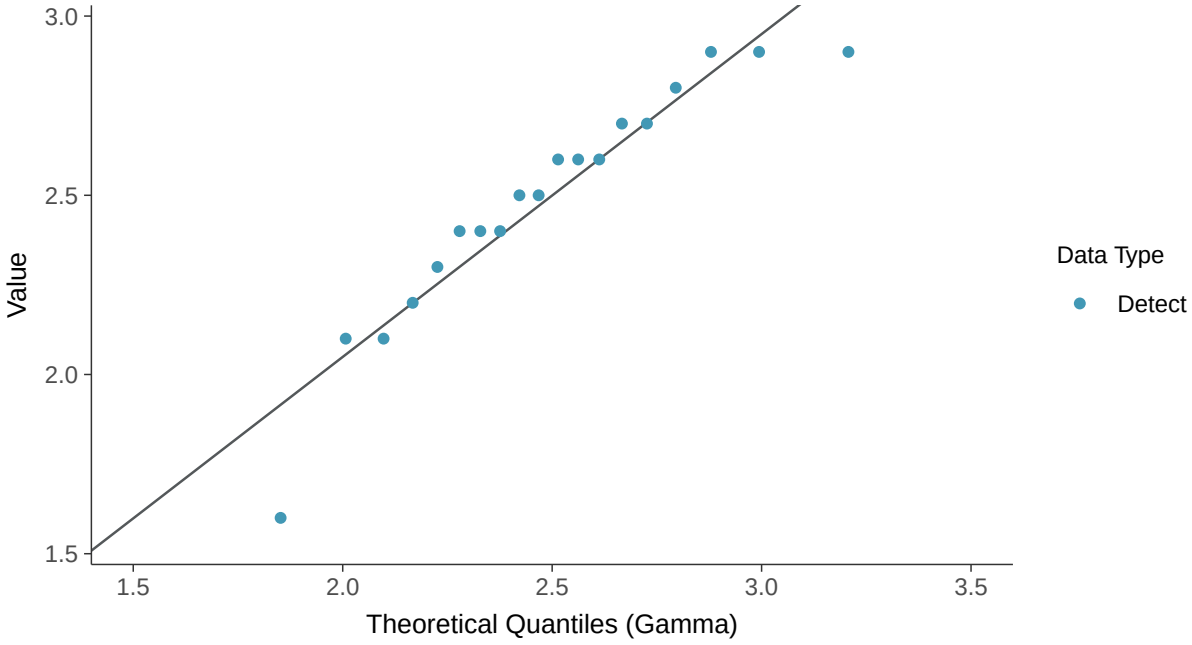
Lognormal Q-Q plot

Fluoride, MW-09 (mg/L)



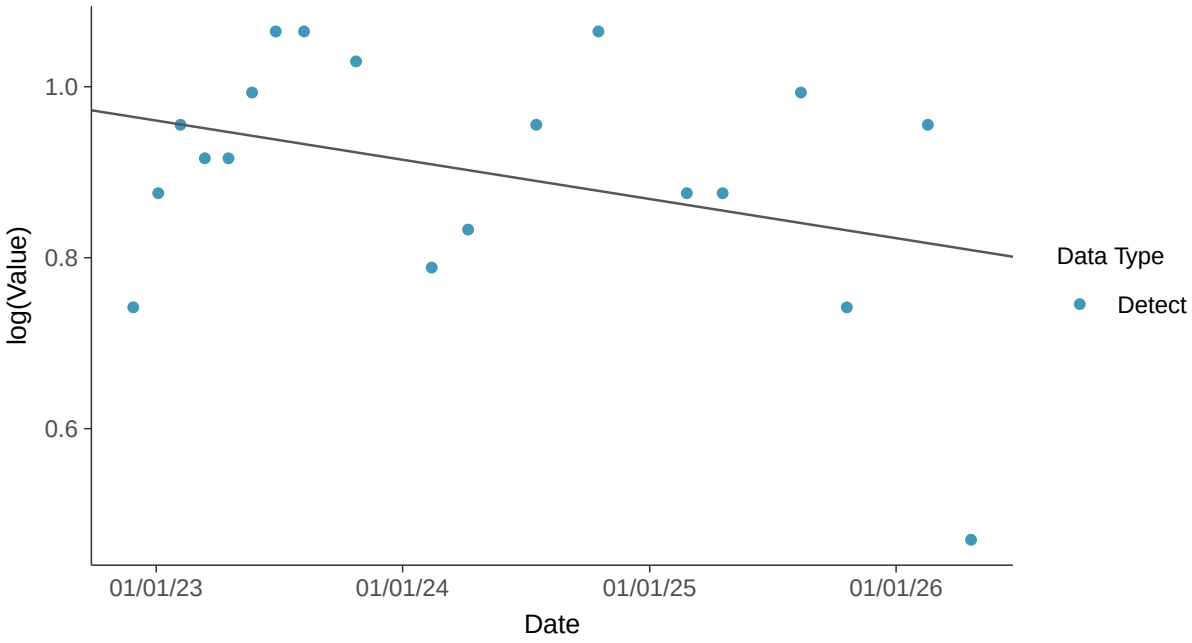
Gamma Q-Q plot

Fluoride, MW-09 (mg/L)



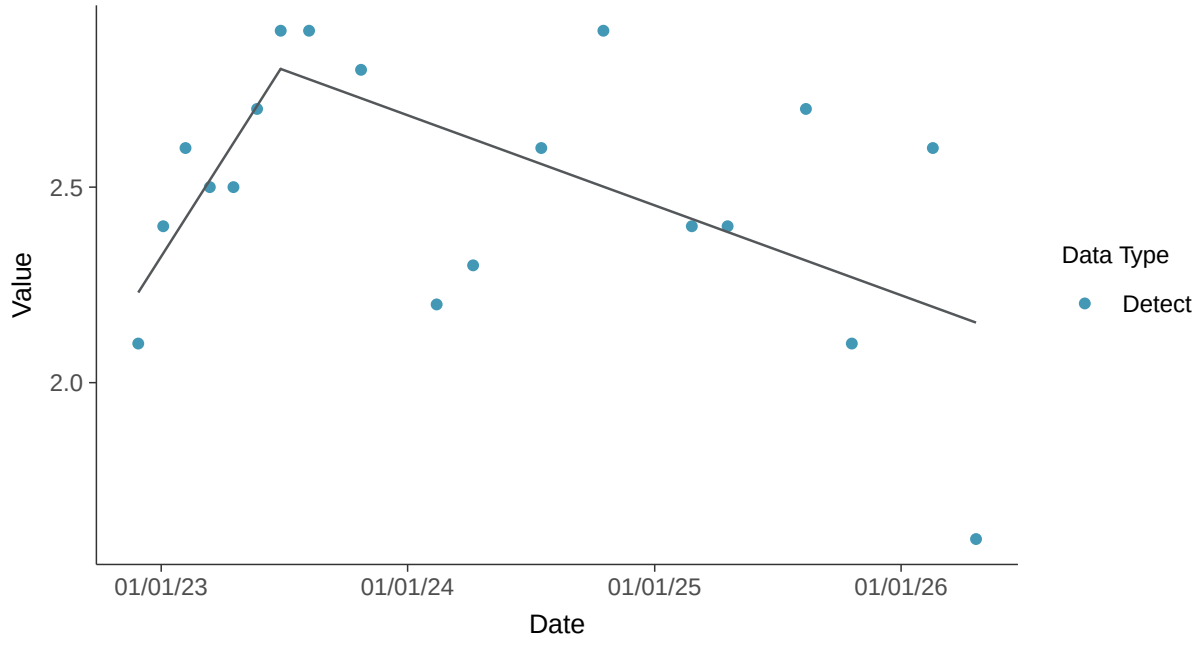
Trend Regression: Lognormal MLE

Fluoride, MW-09 (mg/L)



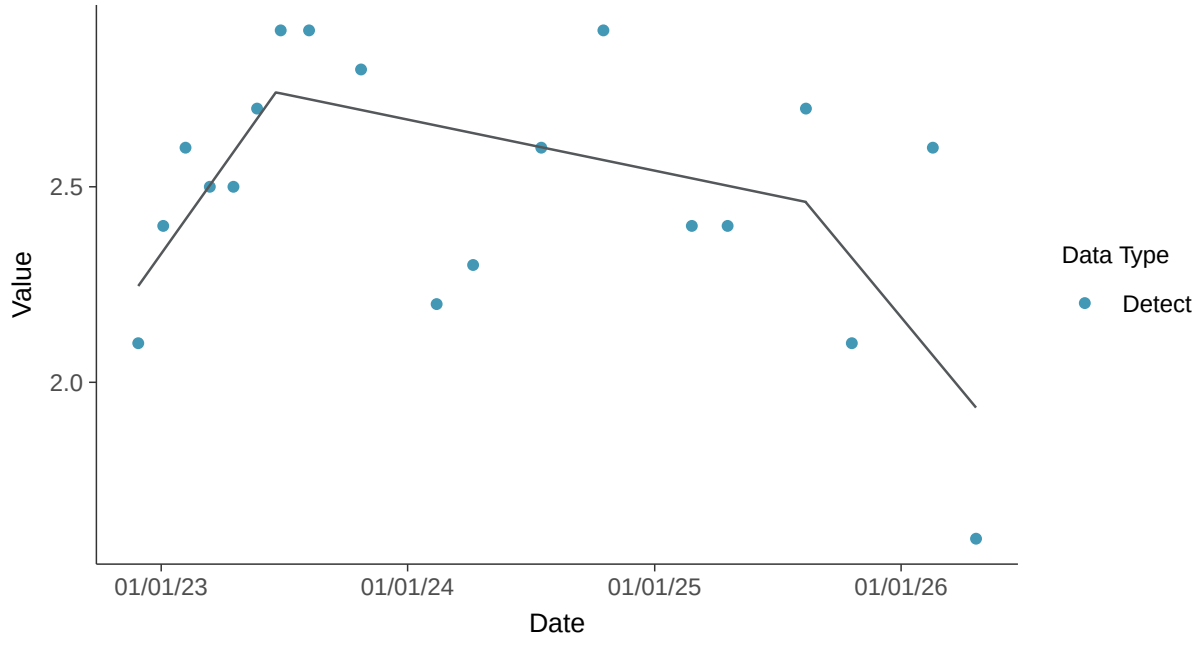
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-09 (mg/L)

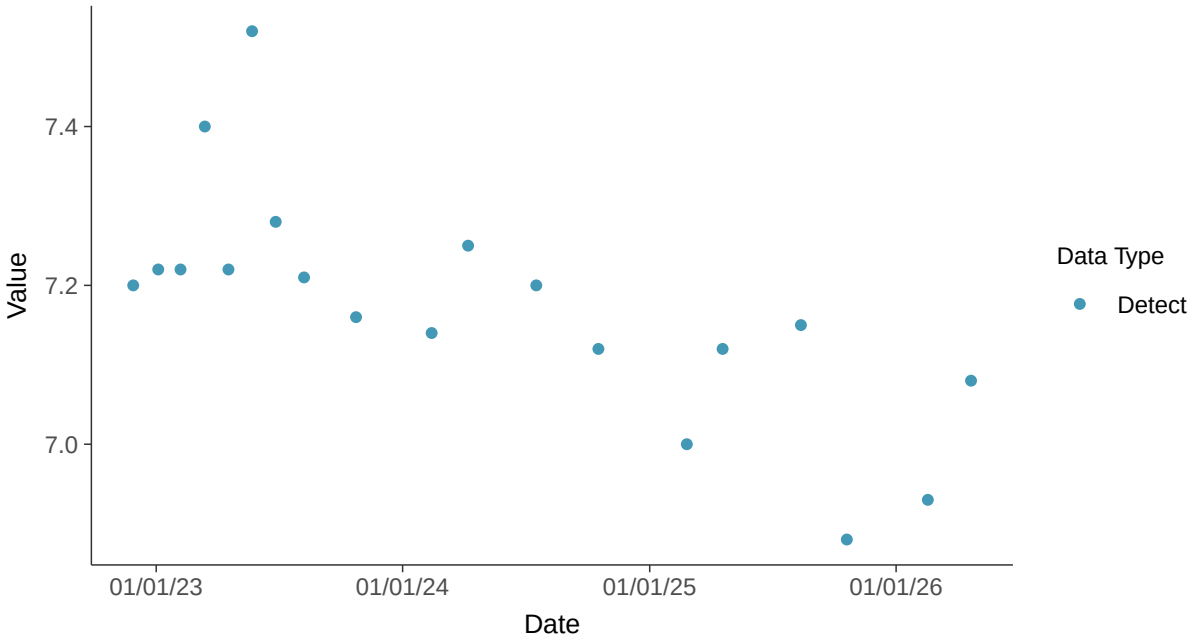


Appendix III: pH (field), MW-09

ID: 19_2_3_120

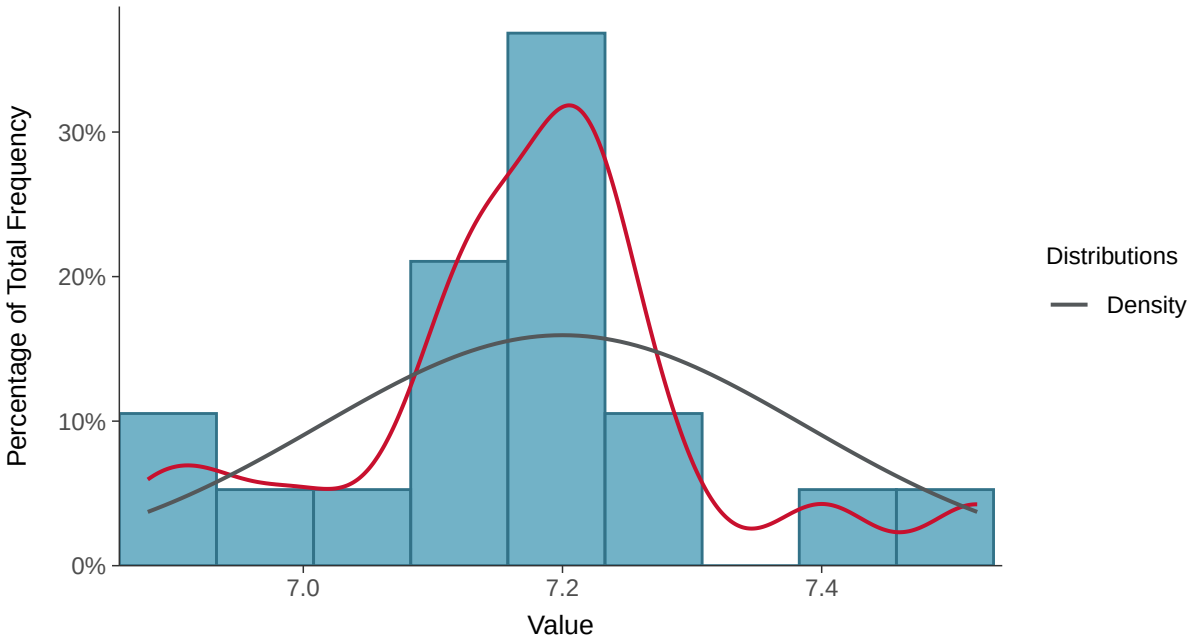
Scatter Plot

pH (field), MW-09 (su)



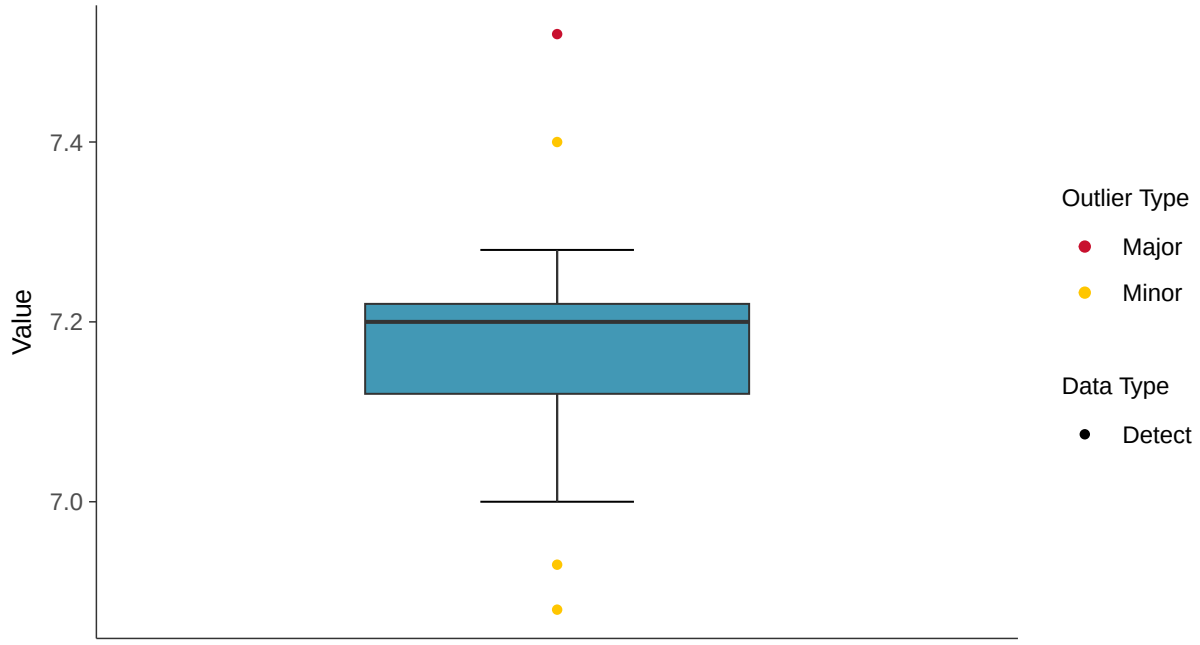
Histogram

pH (field), MW-09 (su)



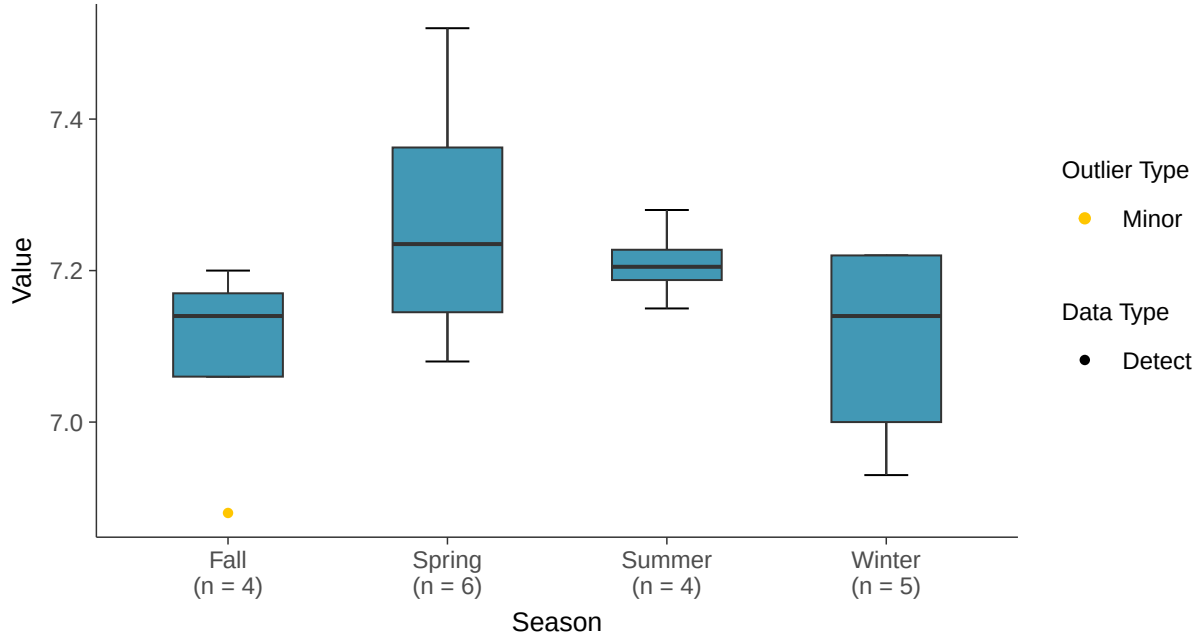
Boxplot

pH (field), MW-09 (su)



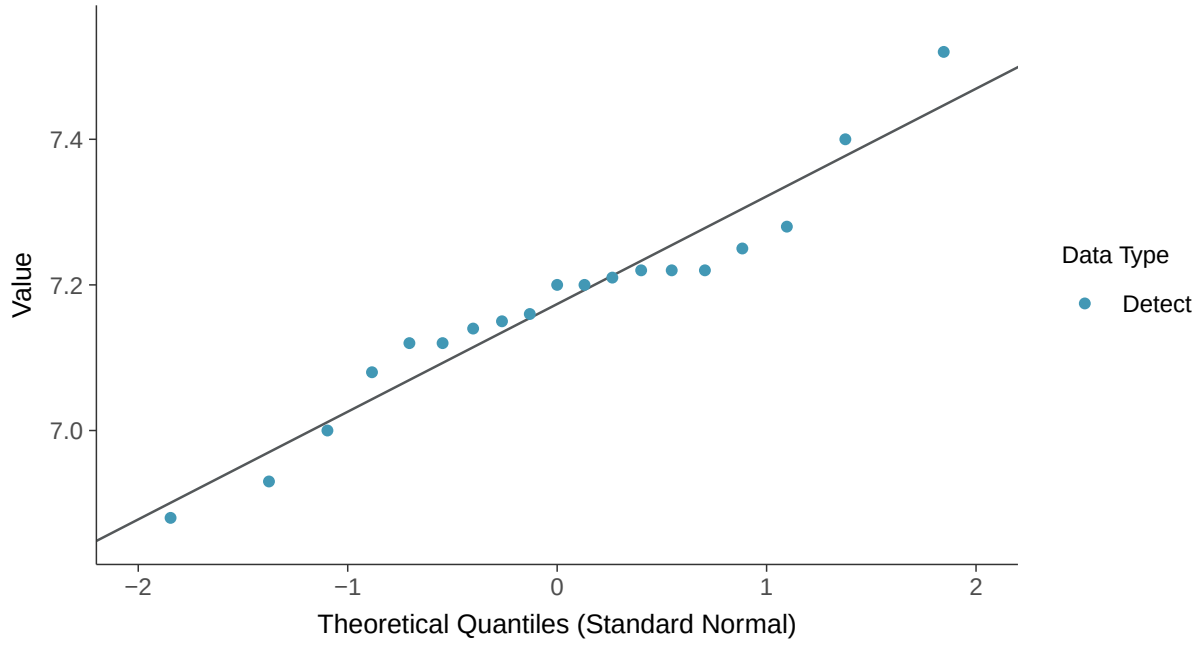
Boxplot by Season

pH (field), MW-09 (su)



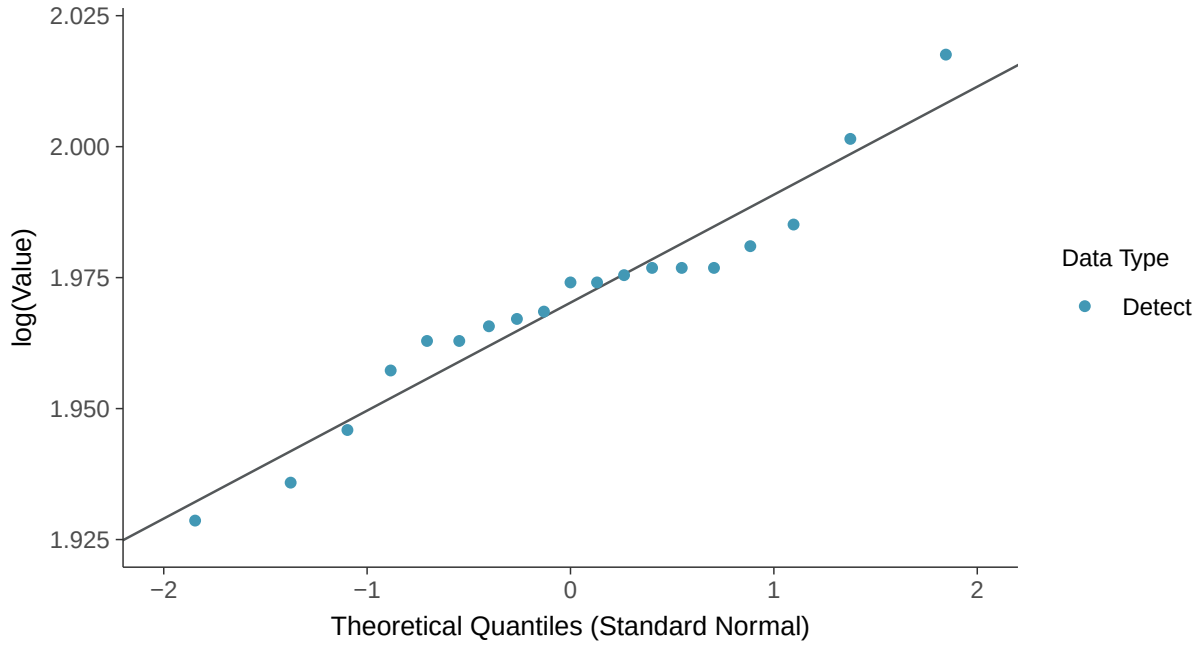
Normal Q-Q plot

pH (field), MW-09 (su)



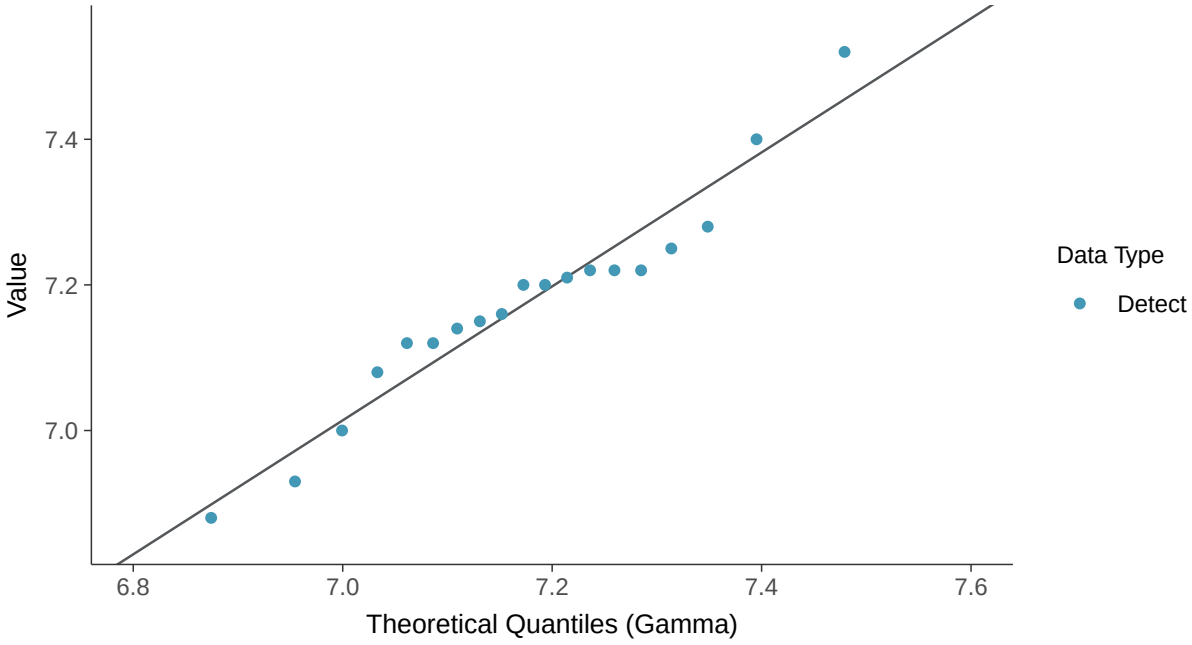
Lognormal Q-Q plot

pH (field), MW-09 (su)



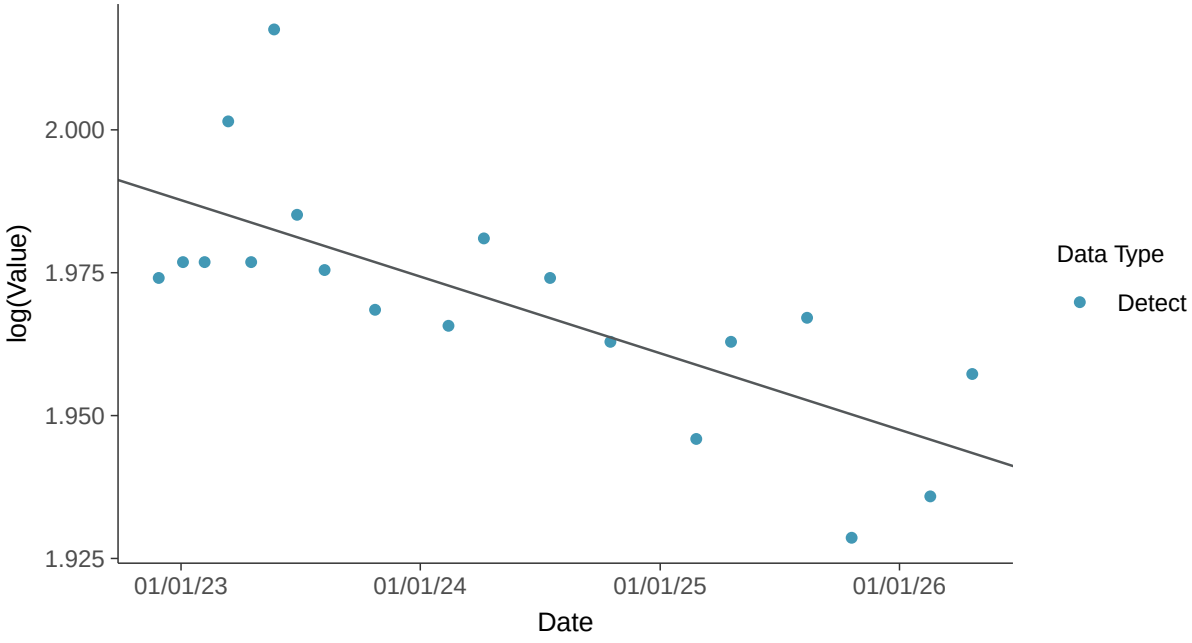
Gamma Q-Q plot

pH (field), MW-09 (su)



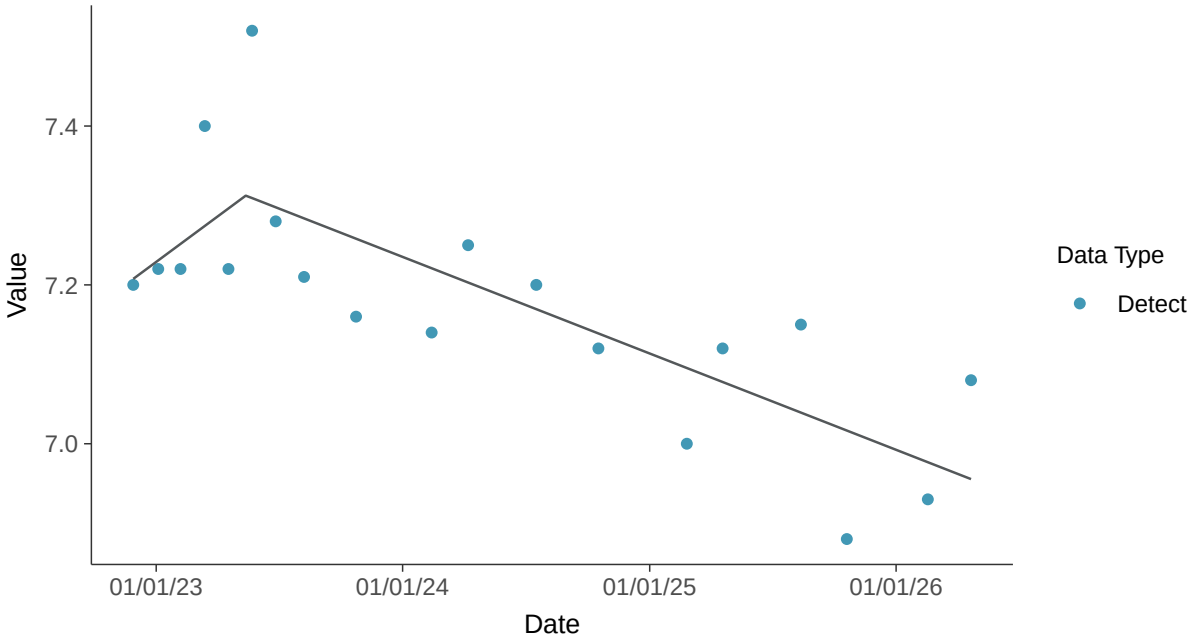
Trend Regression: Lognormal MLE

pH (field), MW-09 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-09 (su)

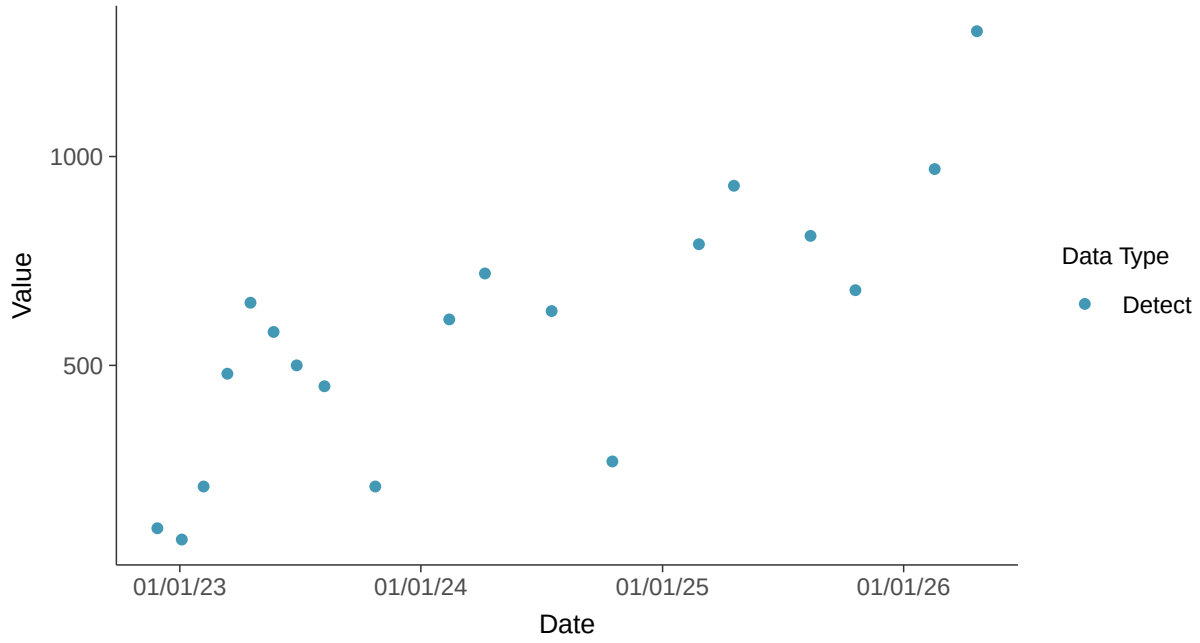


Appendix III: Sulfate (as SO4), MW-09

ID: 19_2_3_124

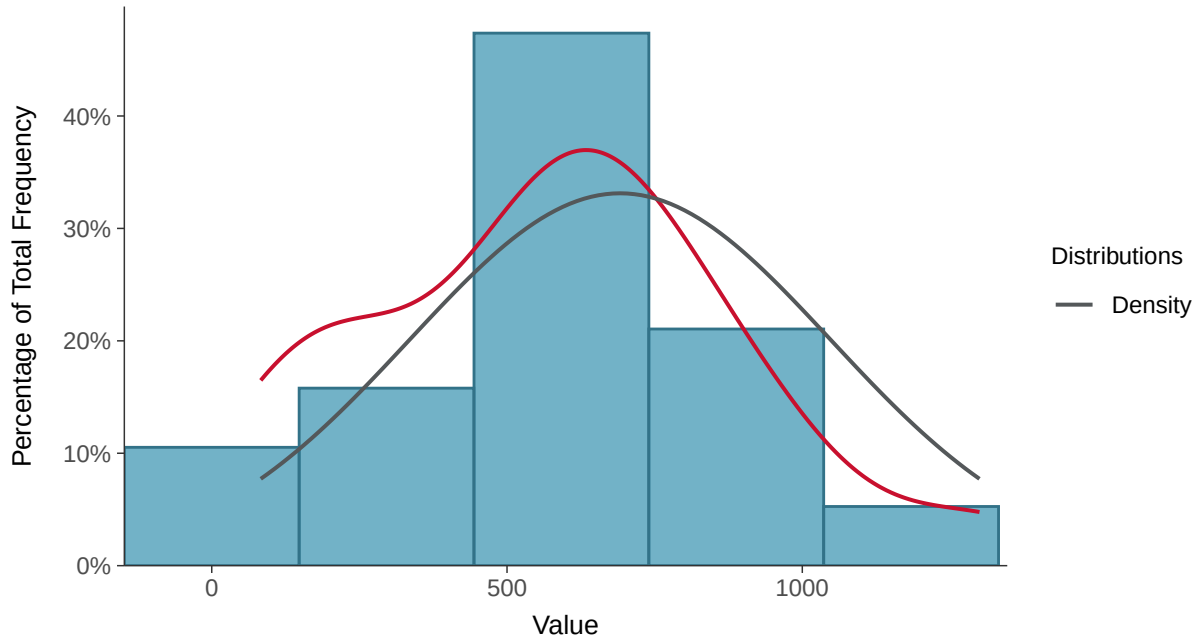
Scatter Plot

Sulfate (as SO4), MW-09 (mg/L)



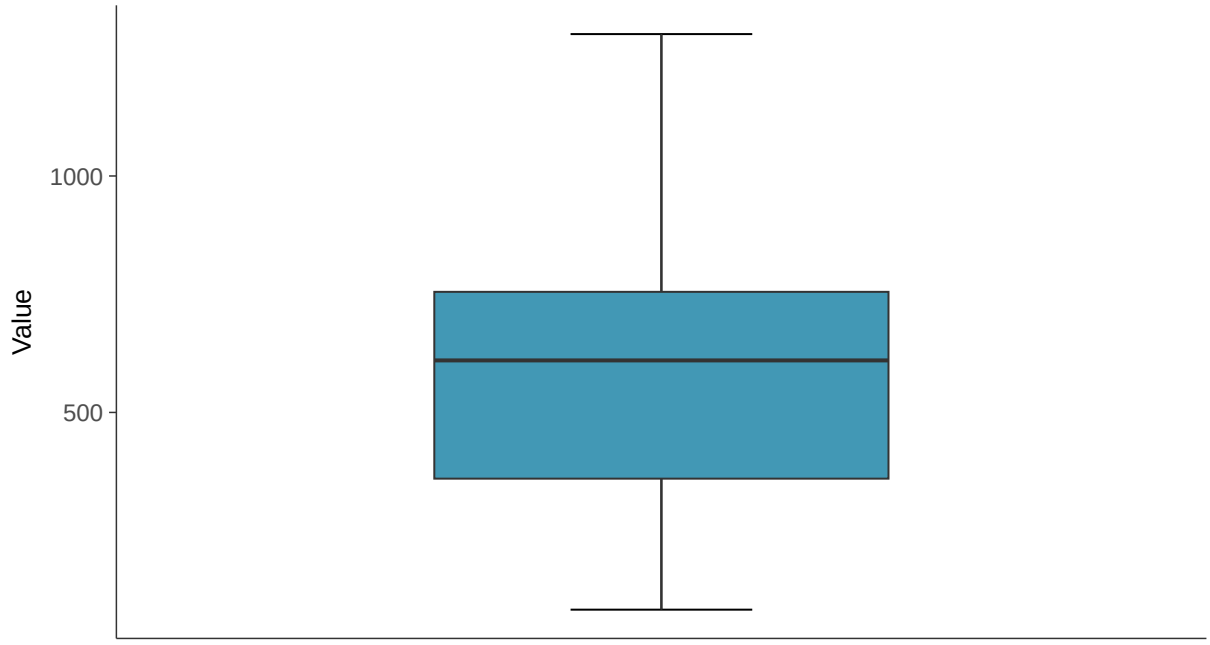
Histogram

Sulfate (as SO4), MW-09 (mg/L)



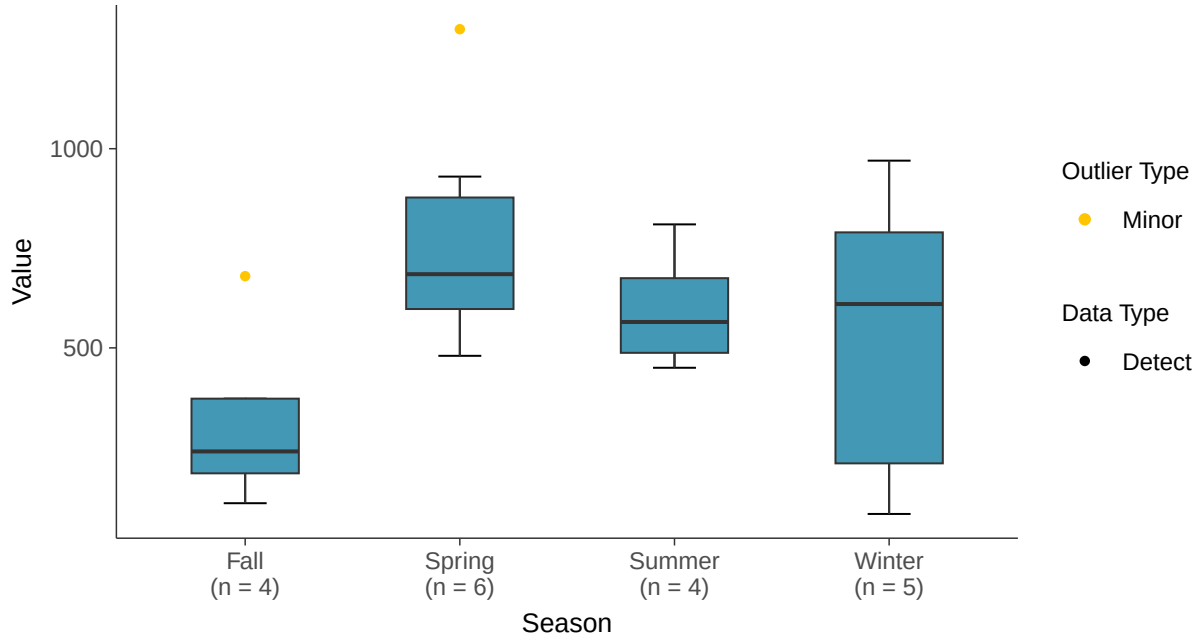
Boxplot

Sulfate (as SO4), MW-09 (mg/L)



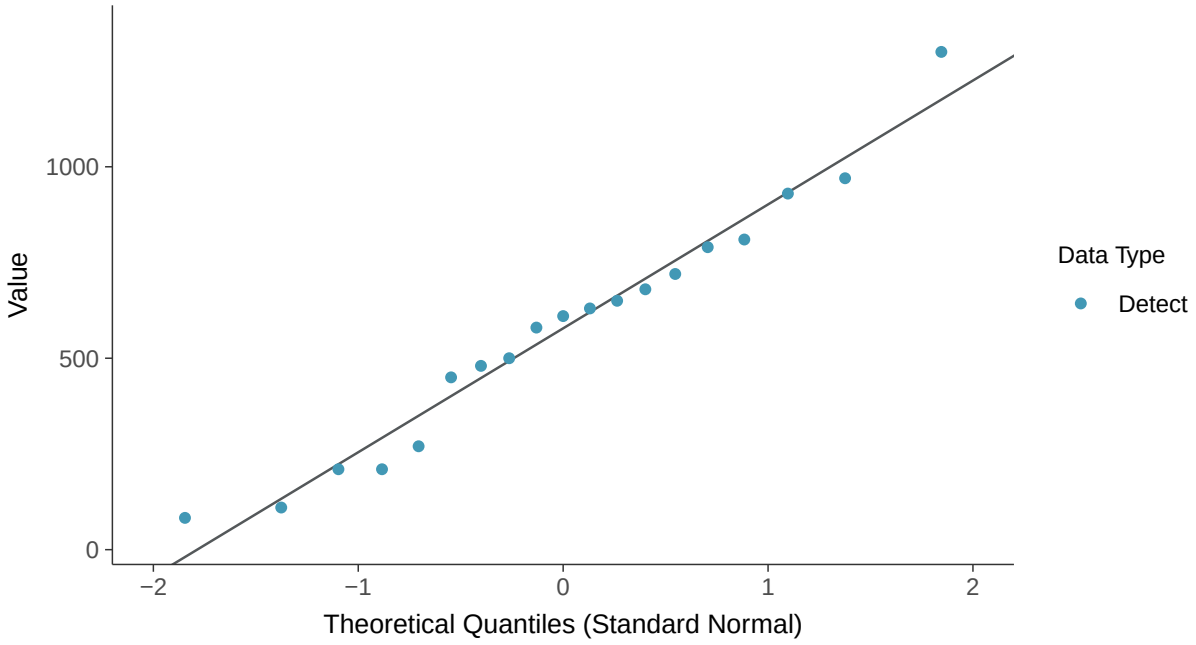
Boxplot by Season

Sulfate (as SO4), MW-09 (mg/L)



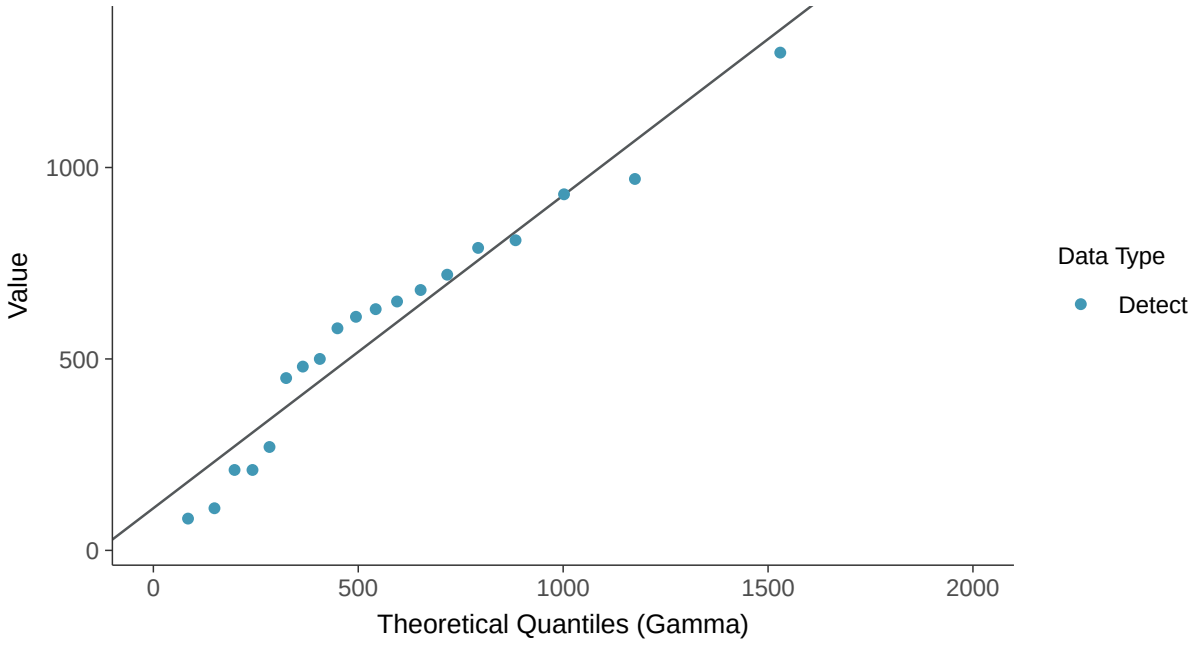
Normal Q-Q plot

Sulfate (as SO4), MW-09 (mg/L)



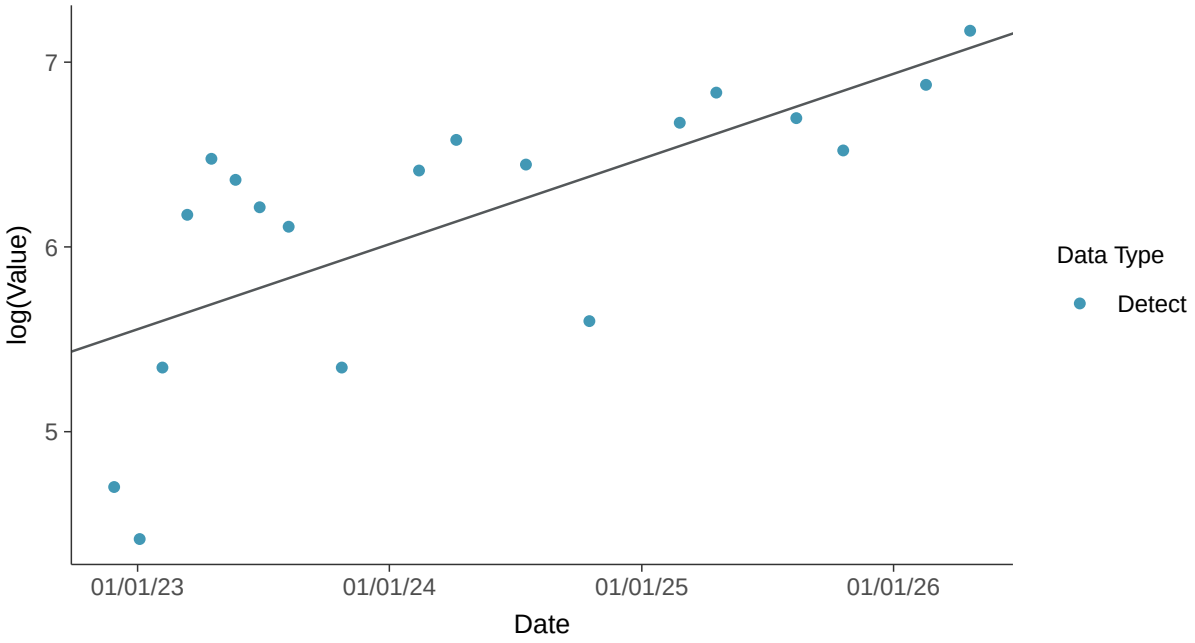
Gamma Q-Q plot

Sulfate (as SO4), MW-09 (mg/L)



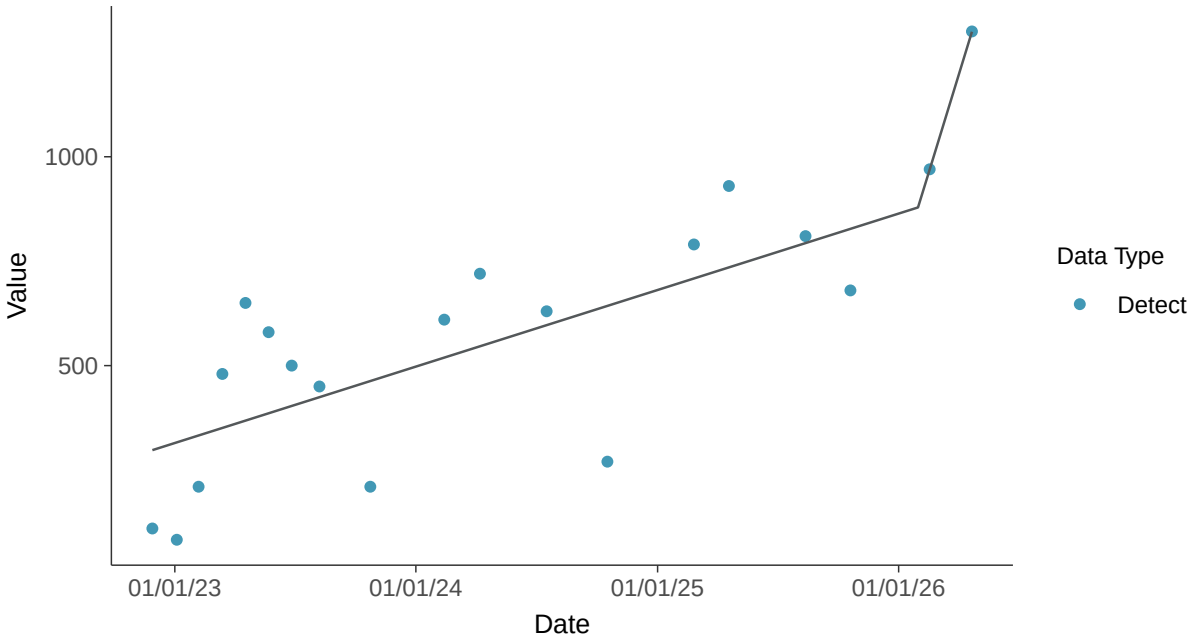
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-09 (mg/L)



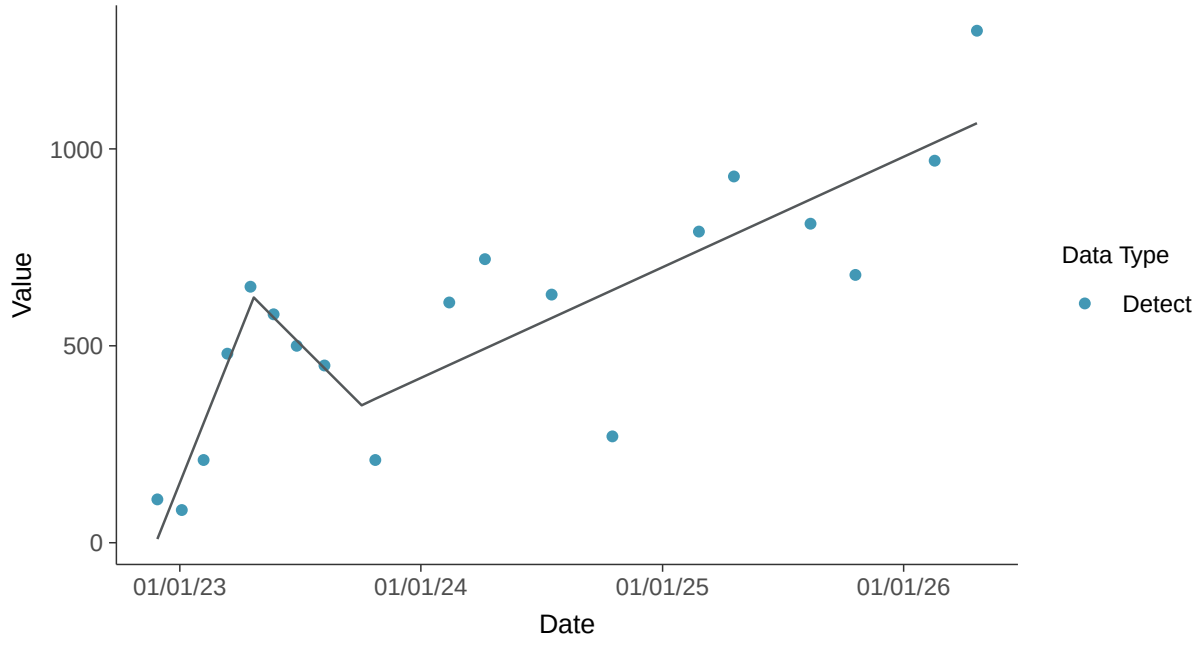
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-09 (mg/L)

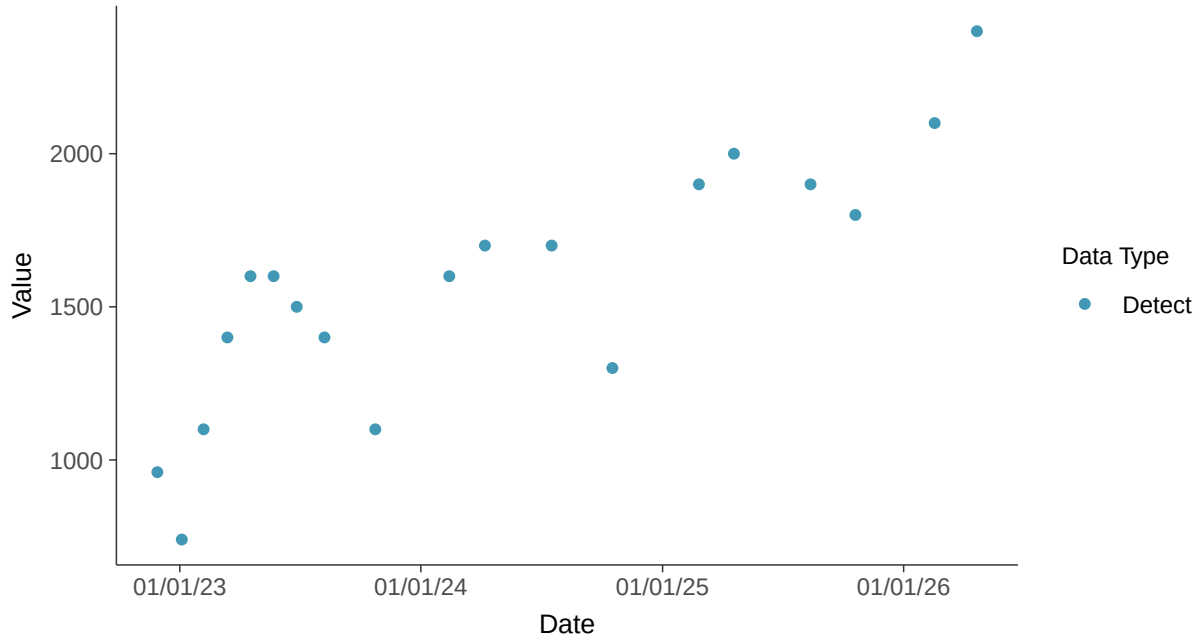


Appendix III: Total Dissolved Solids, MW-09

ID: 19_2_3_126

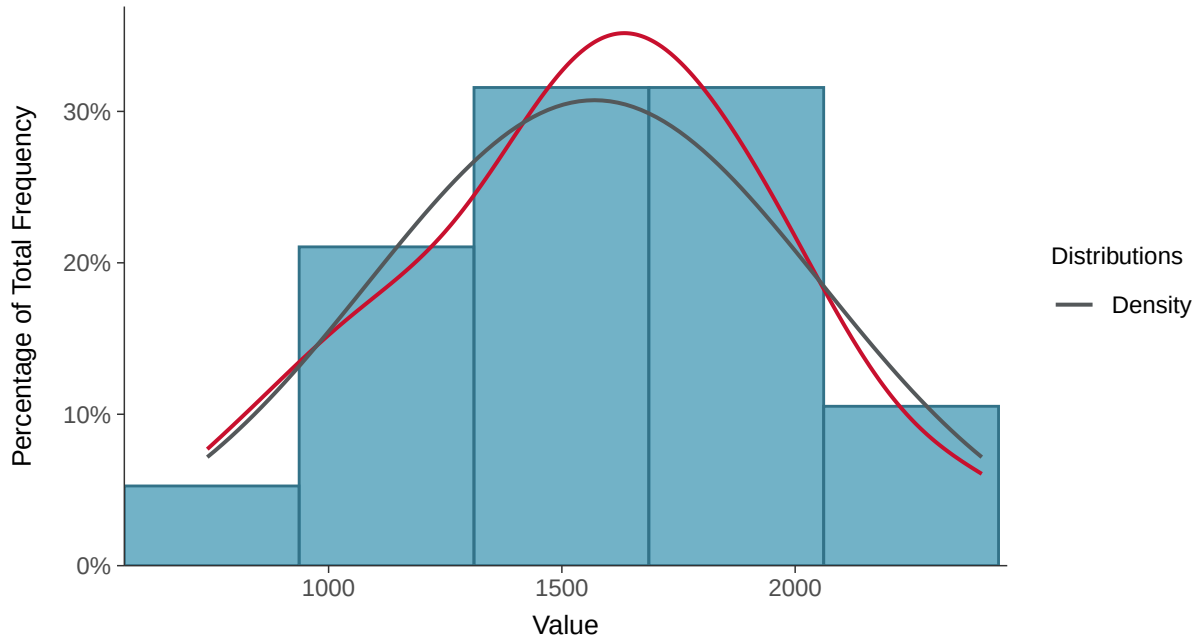
Scatter Plot

Total Dissolved Solids, MW-09 (mg/L)



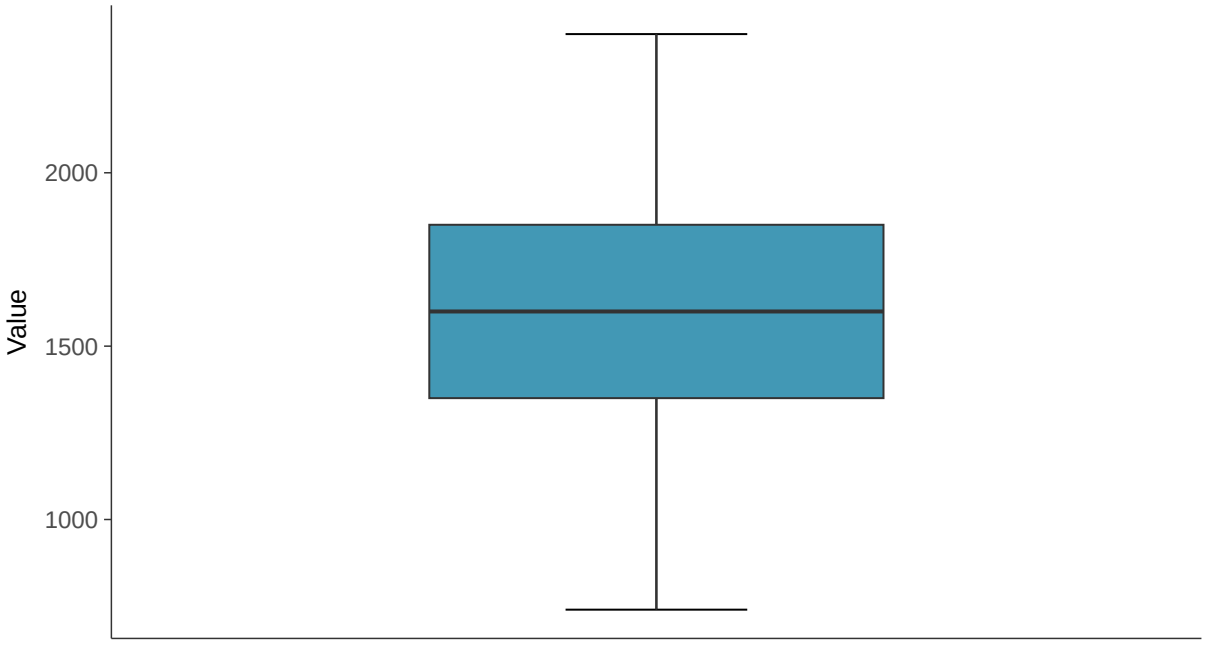
Histogram

Total Dissolved Solids, MW-09 (mg/L)



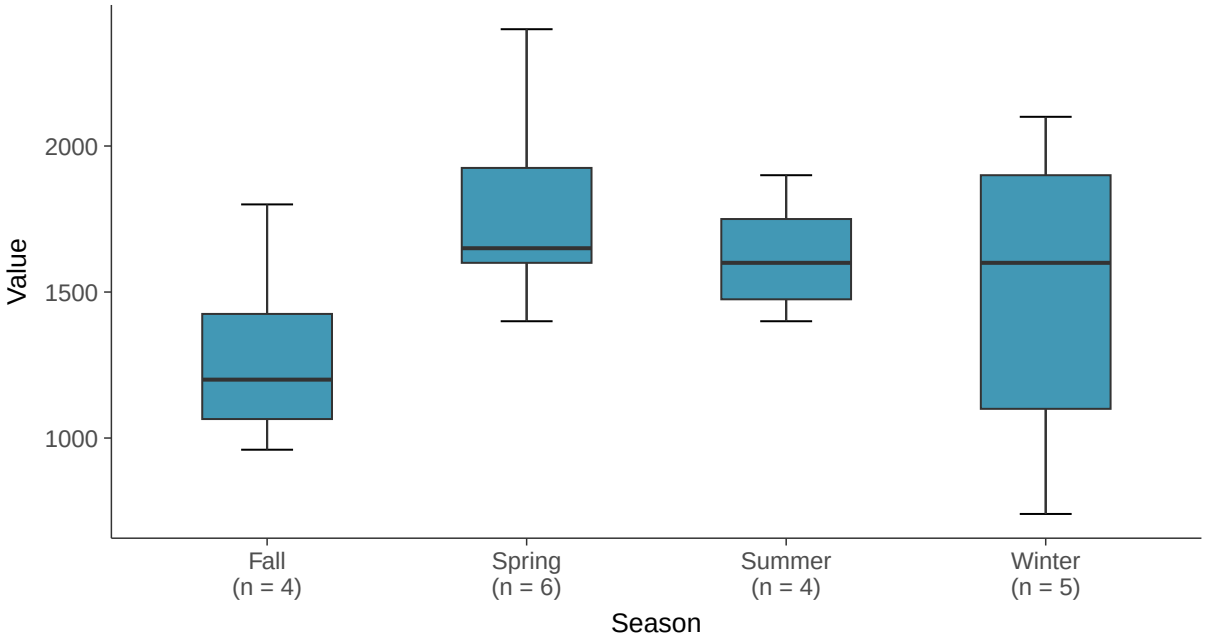
Boxplot

Total Dissolved Solids, MW-09 (mg/L)



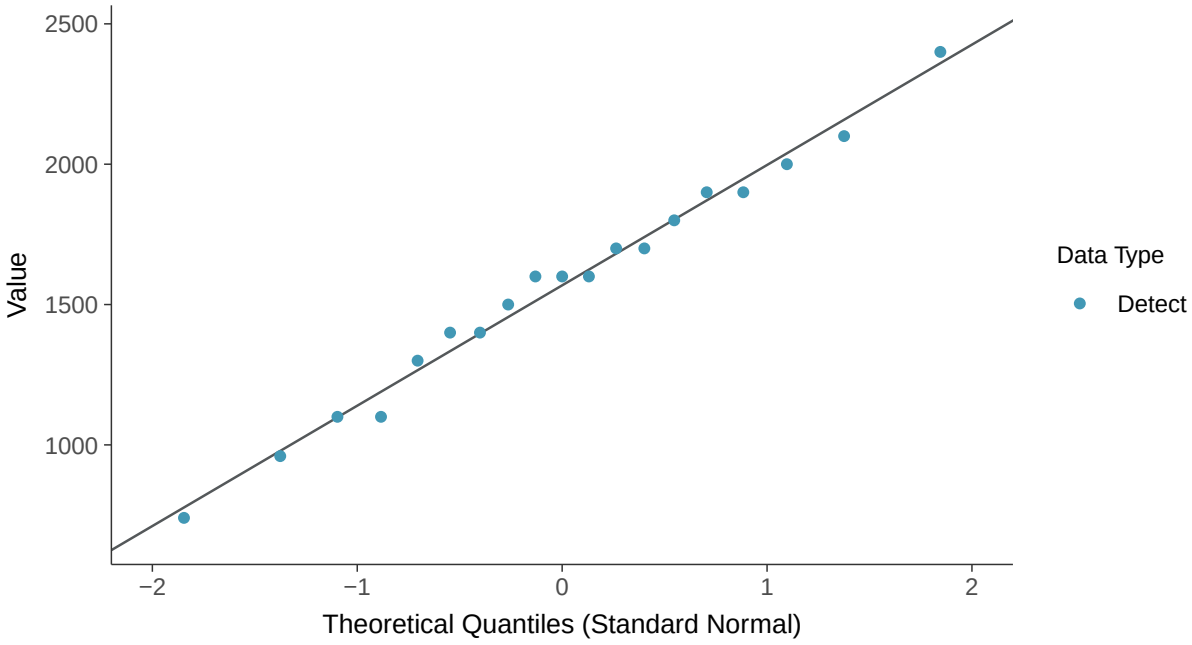
Boxplot by Season

Total Dissolved Solids, MW-09 (mg/L)



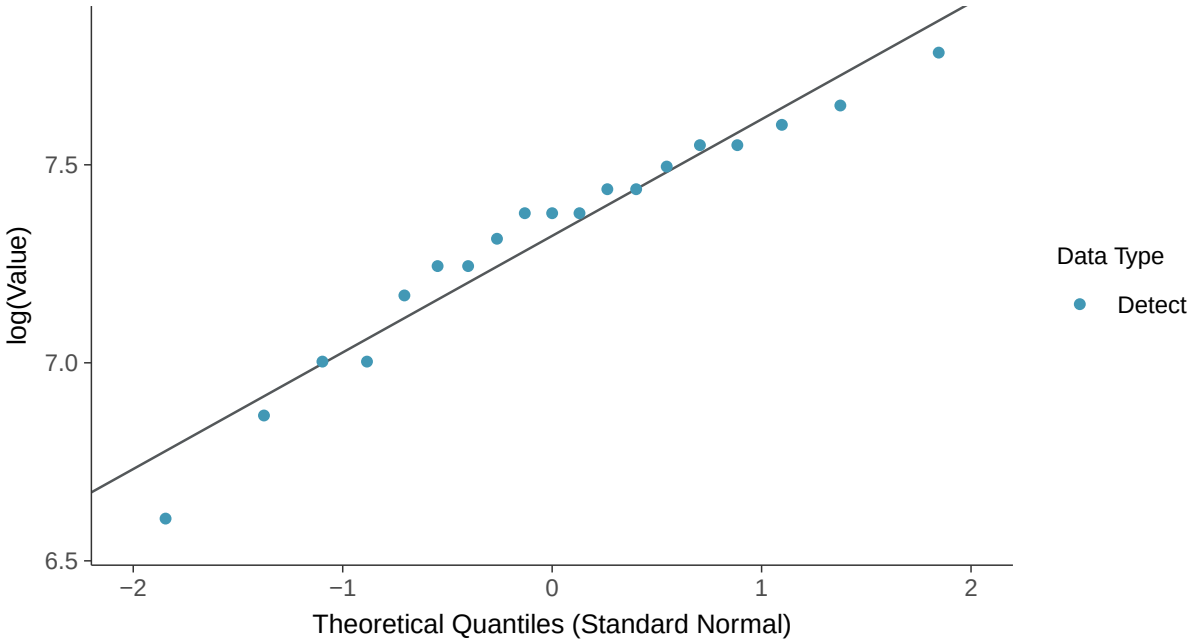
Normal Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



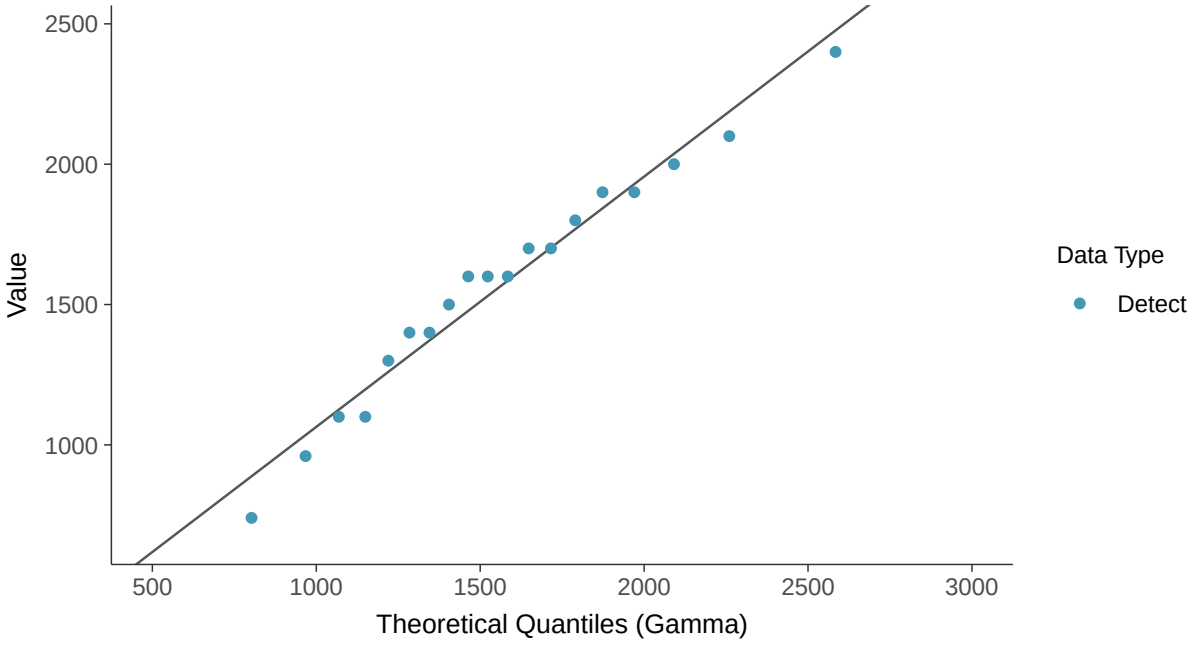
Lognormal Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



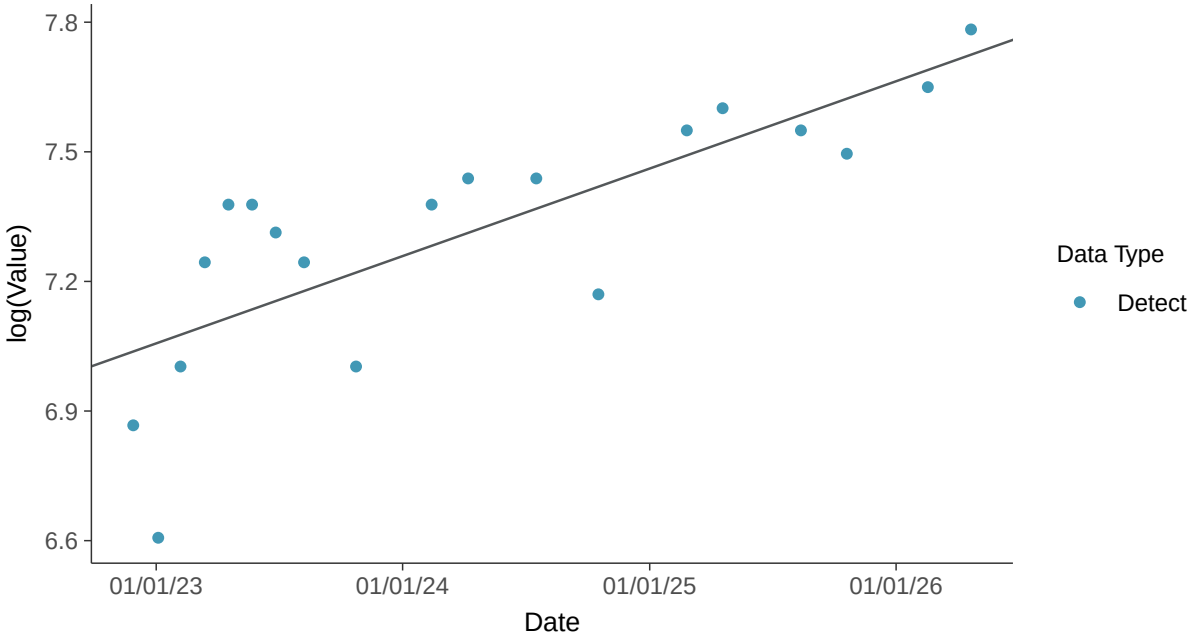
Gamma Q-Q plot

Total Dissolved Solids, MW-09 (mg/L)



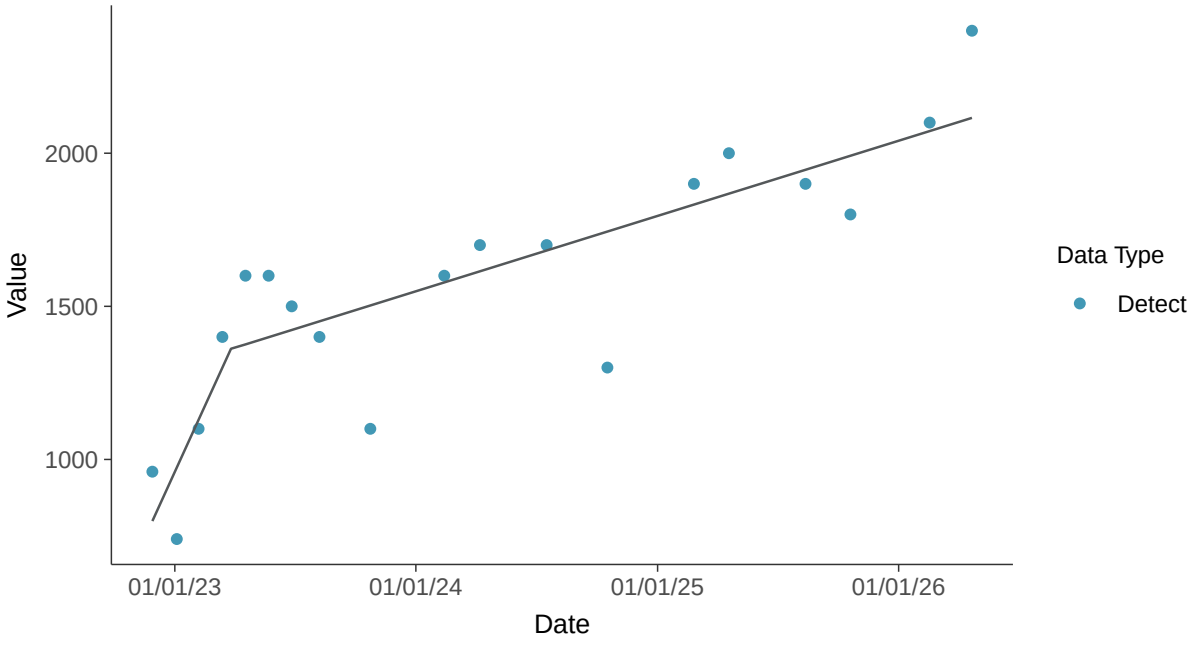
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-09 (mg/L)



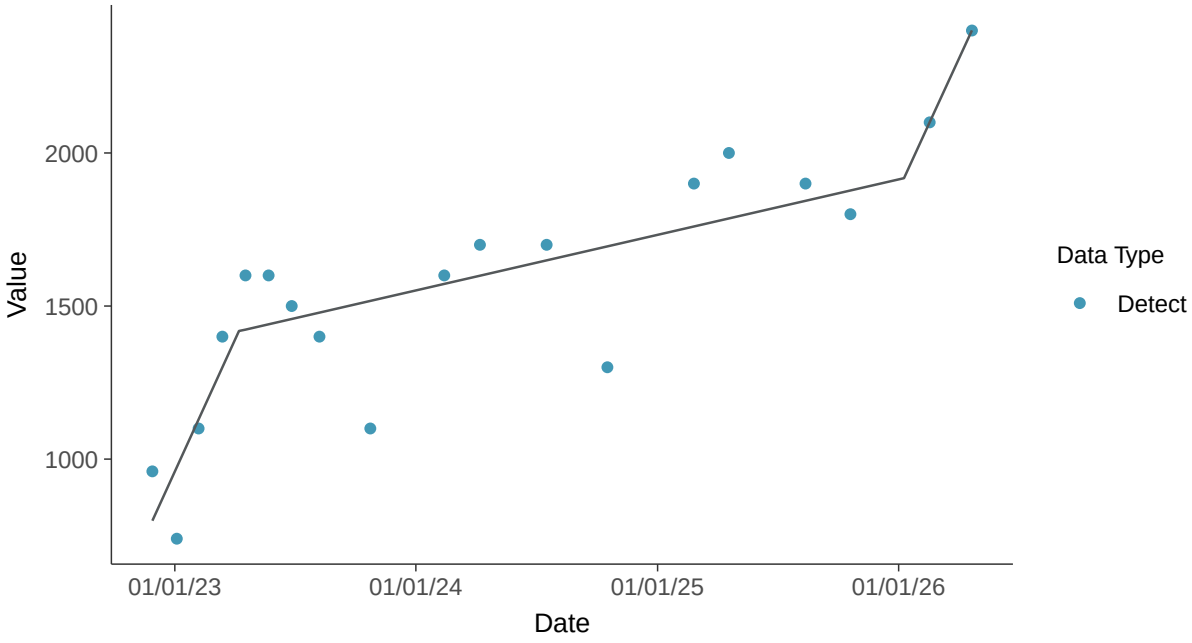
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-09 (mg/L)



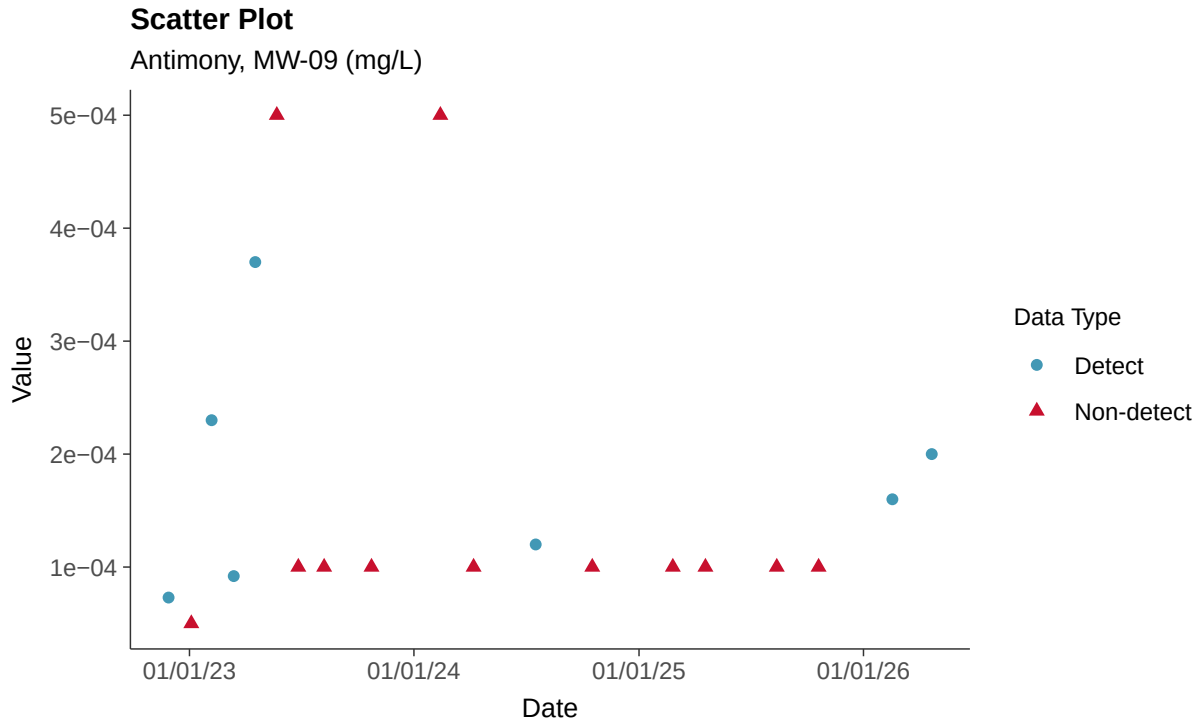
Trend Regression: Piecewise Linear-Linear-Linear

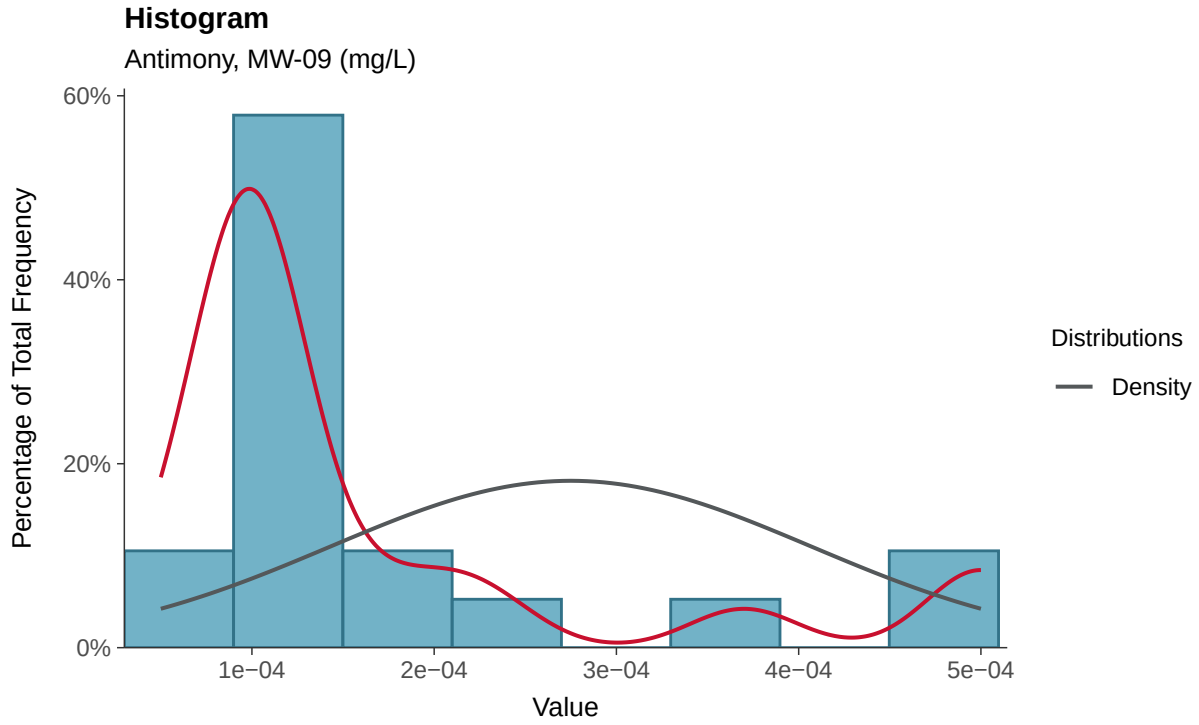
Total Dissolved Solids, MW-09 (mg/L)



Appendix IV: Antimony, MW-09

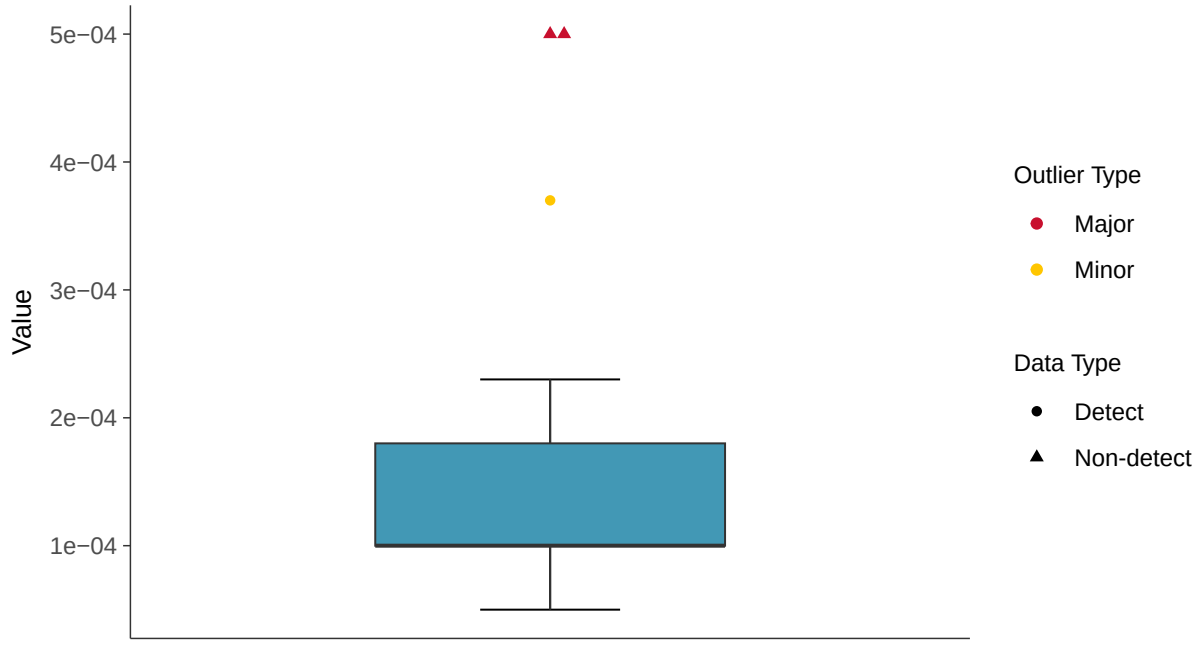
ID: 19_2_4_101





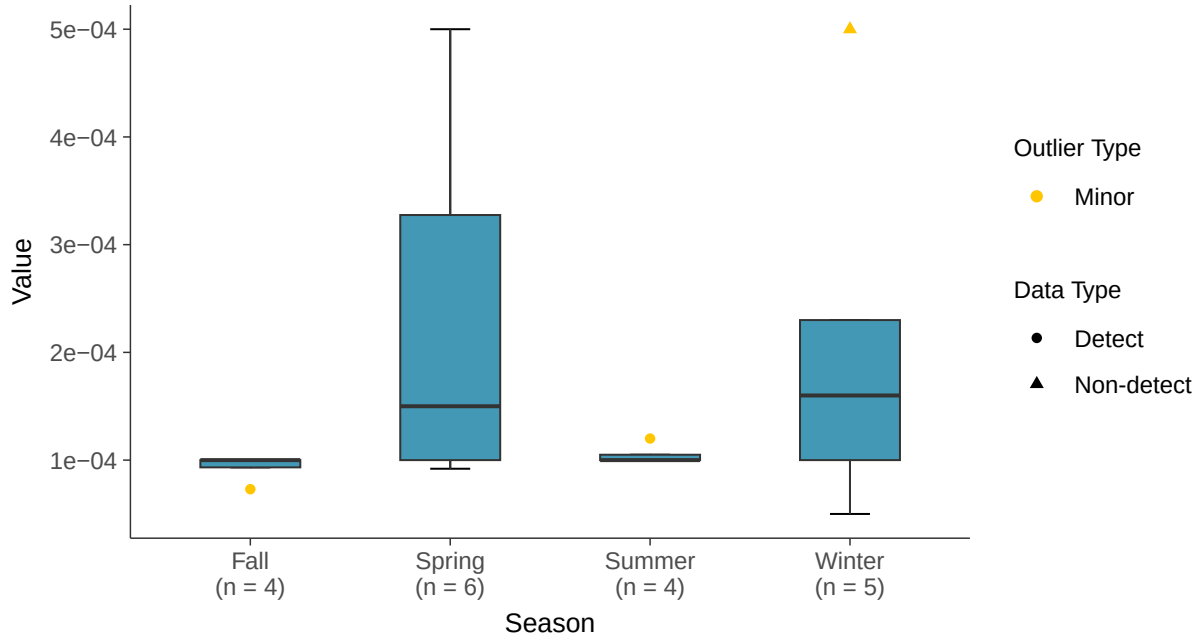
Boxplot

Antimony, MW-09 (mg/L)



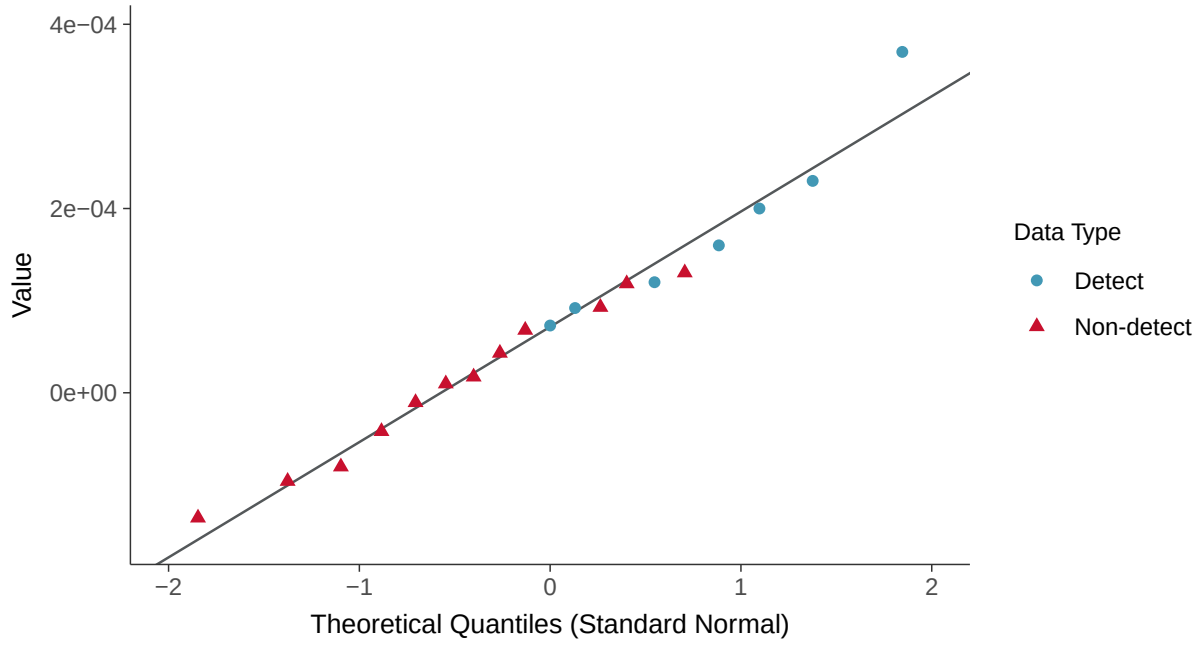
Boxplot by Season

Antimony, MW-09 (mg/L)



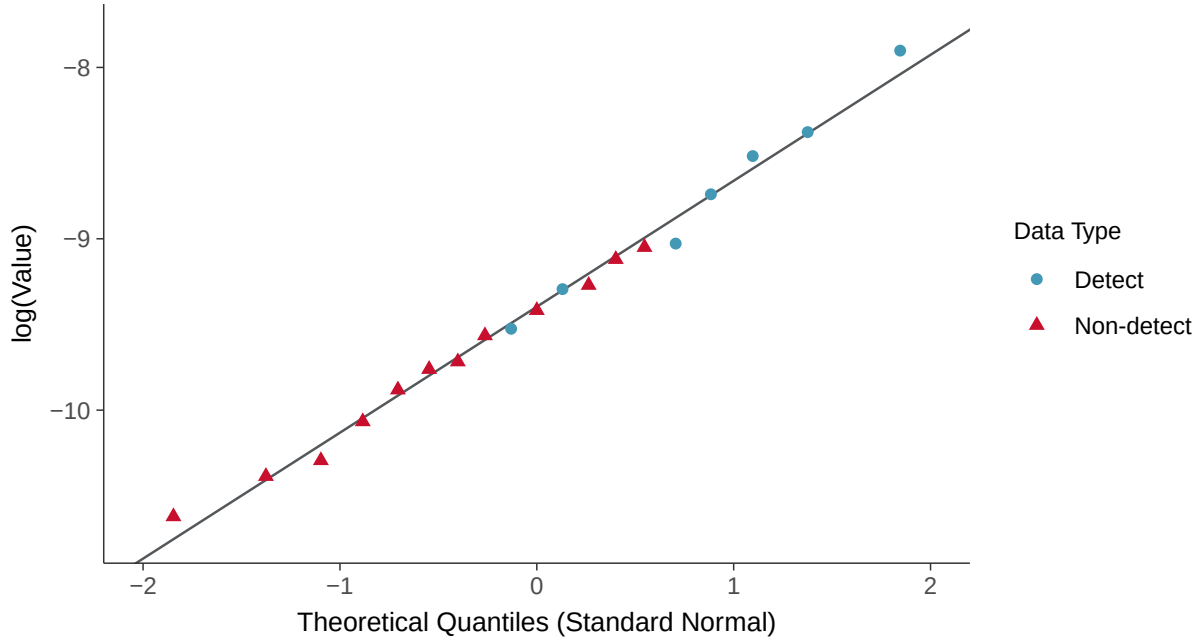
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



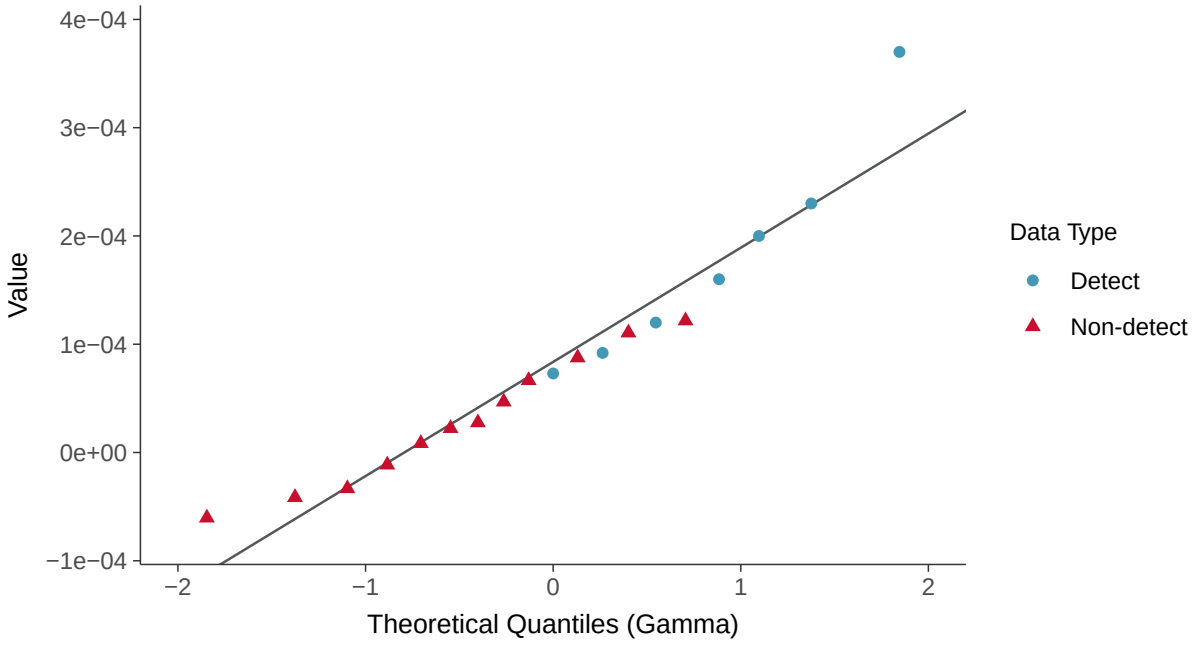
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



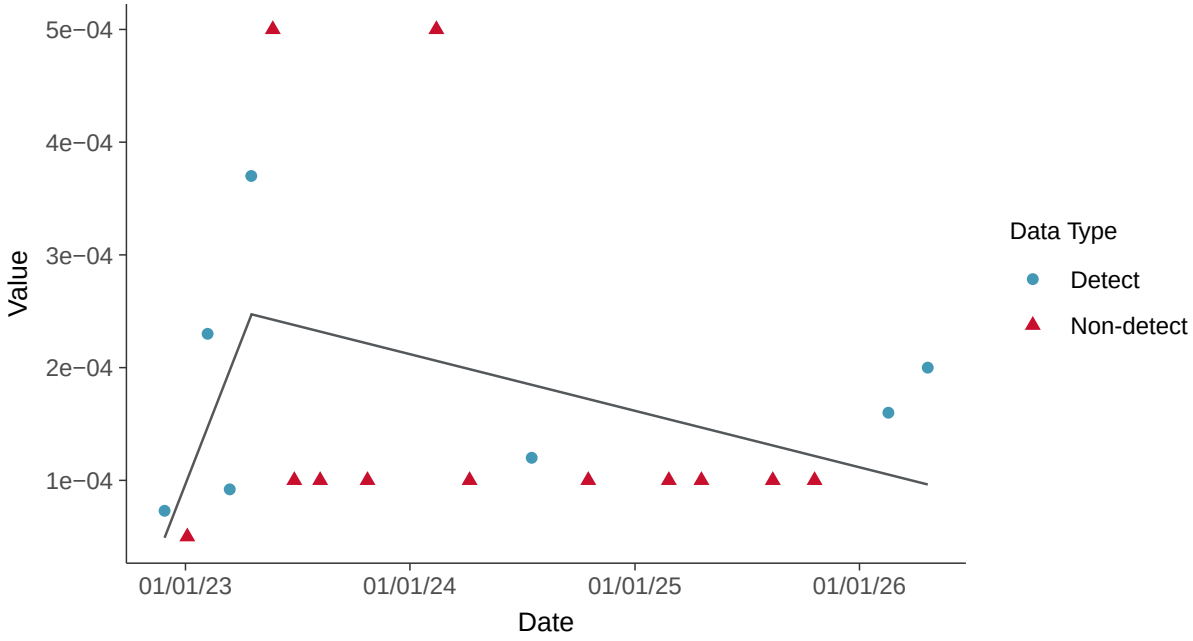
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-09 (mg/L)



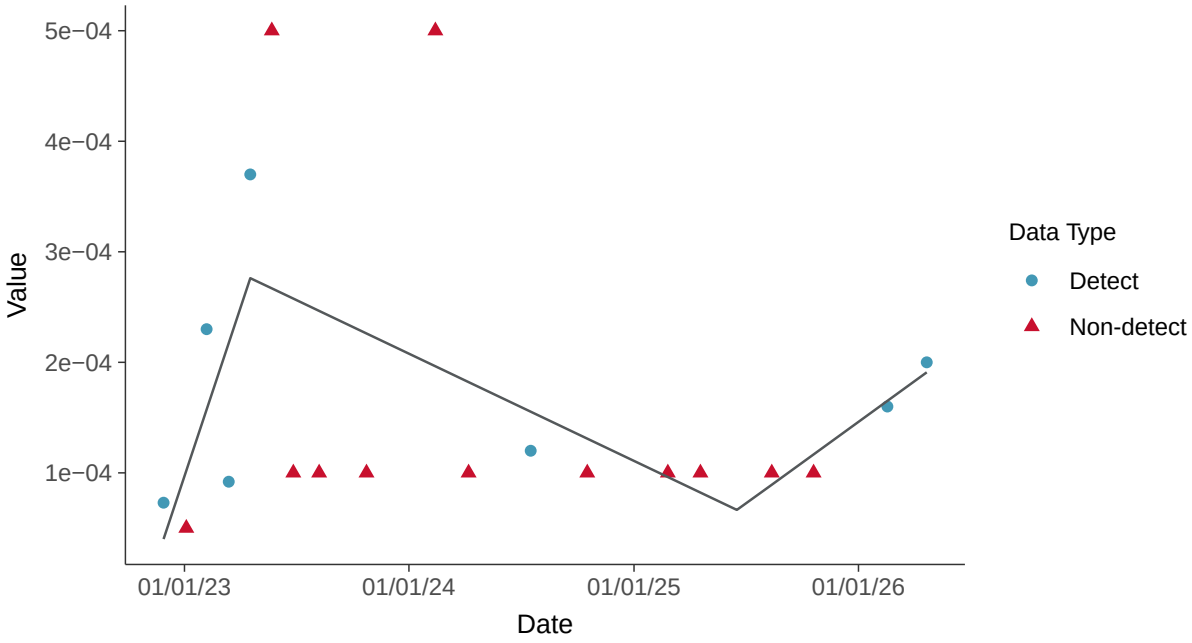
Trend Regression: Piecewise Linear-Linear

Antimony, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-09 (mg/L)

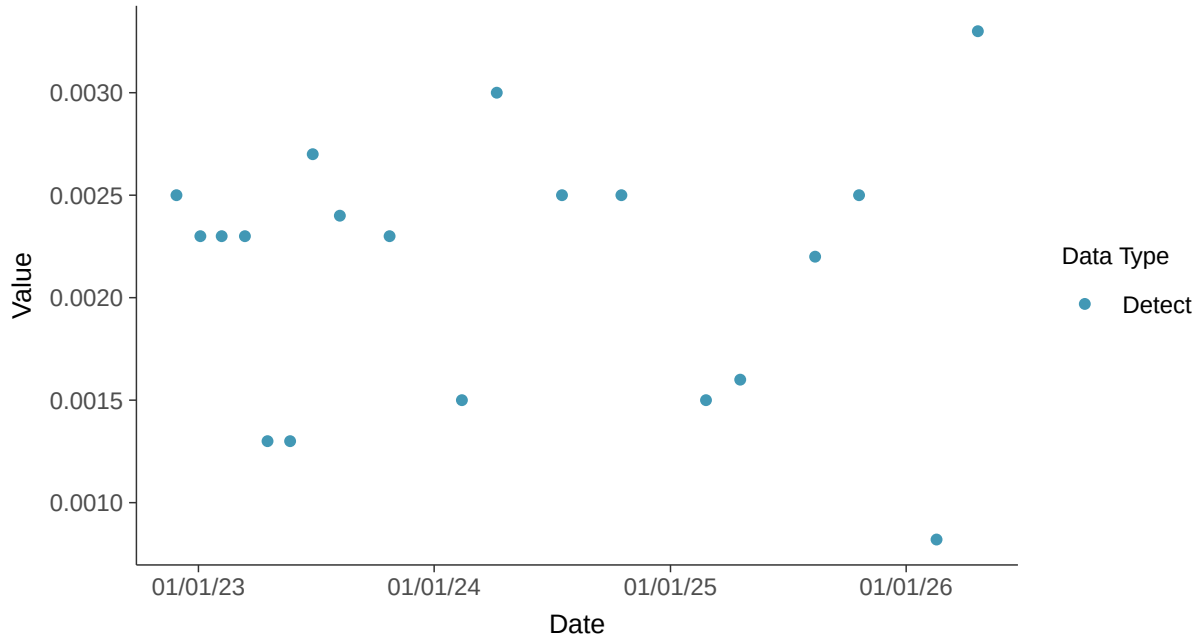


Appendix IV: Arsenic, MW-09

ID: 19_2_4_102

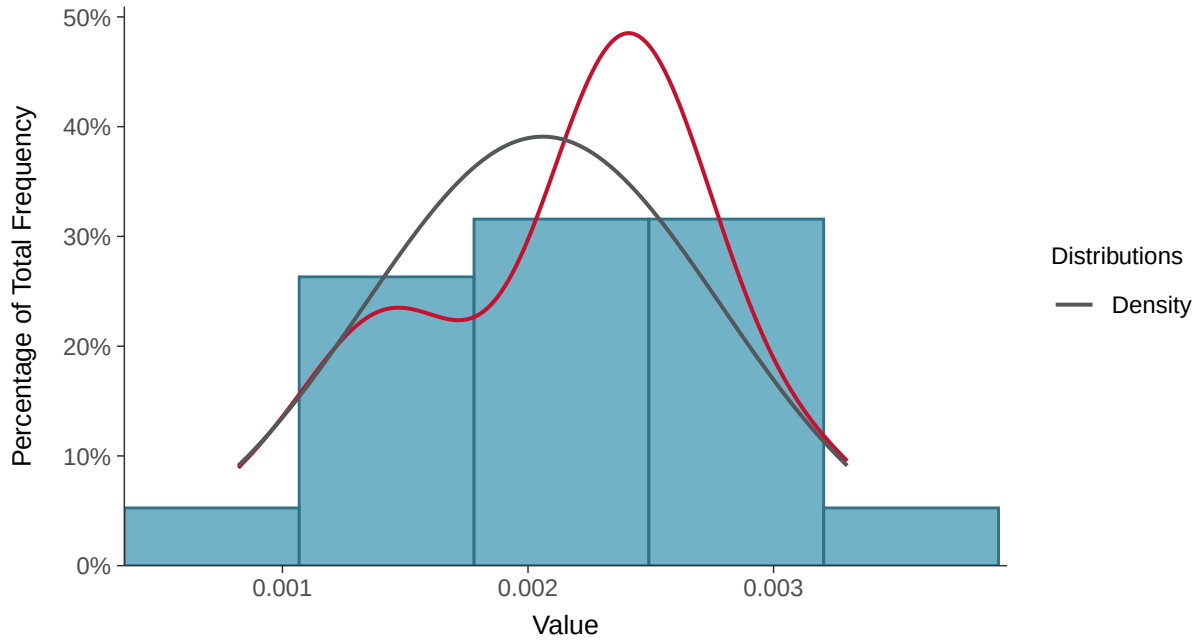
Scatter Plot

Arsenic, MW-09 (mg/L)



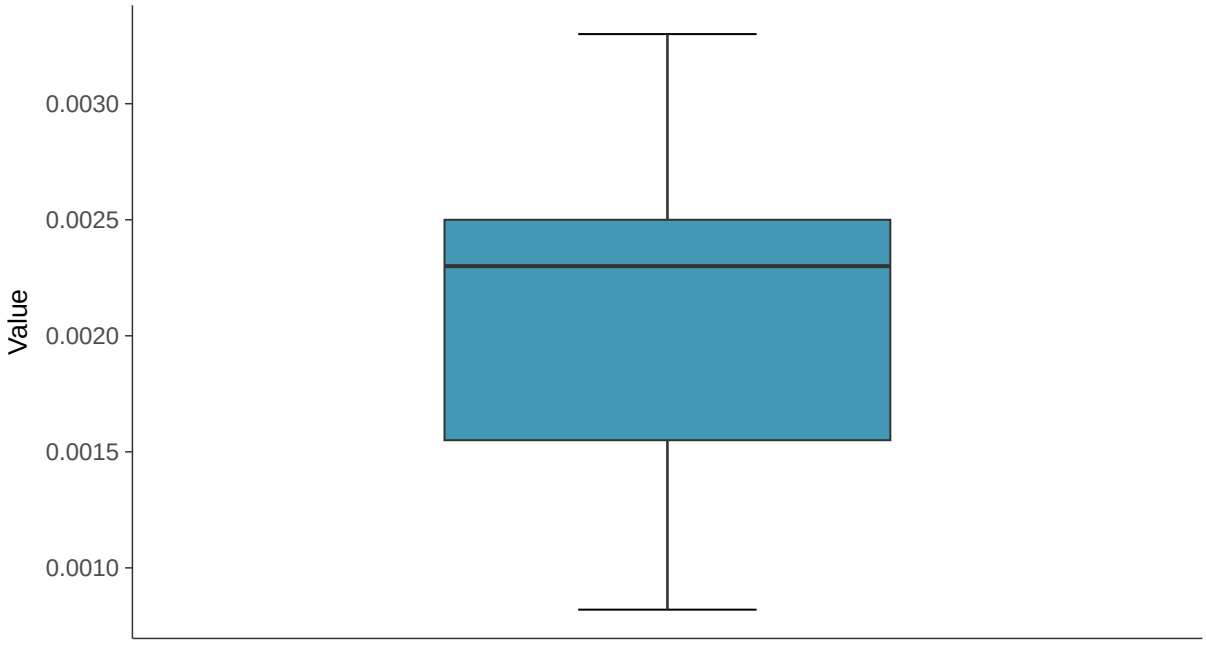
Histogram

Arsenic, MW-09 (mg/L)



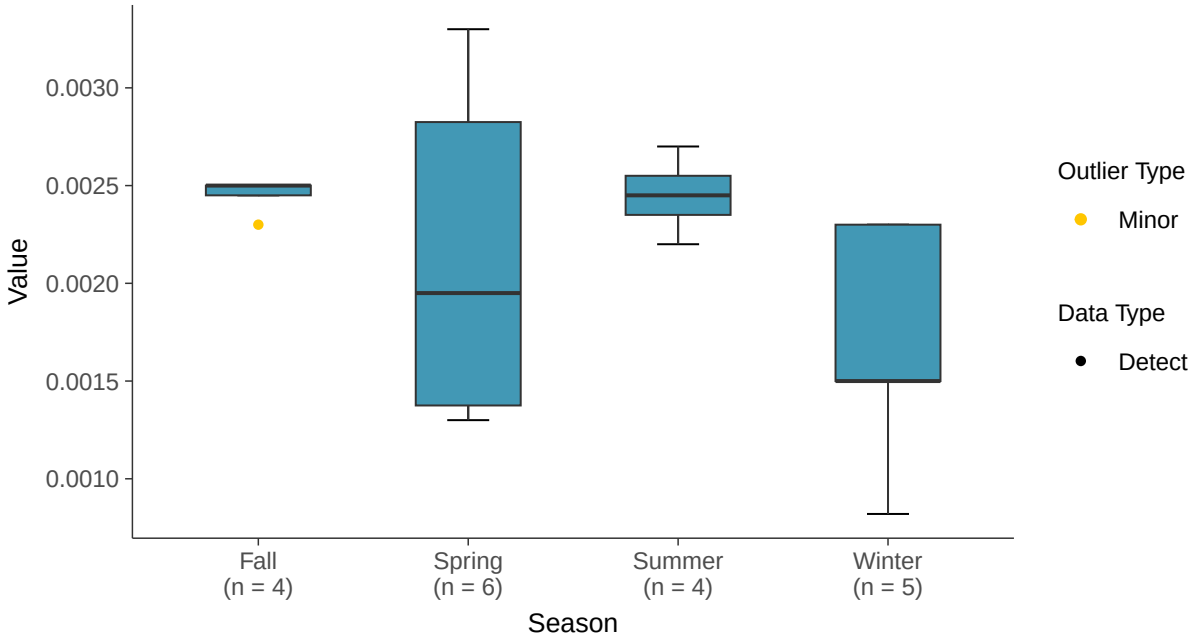
Boxplot

Arsenic, MW-09 (mg/L)



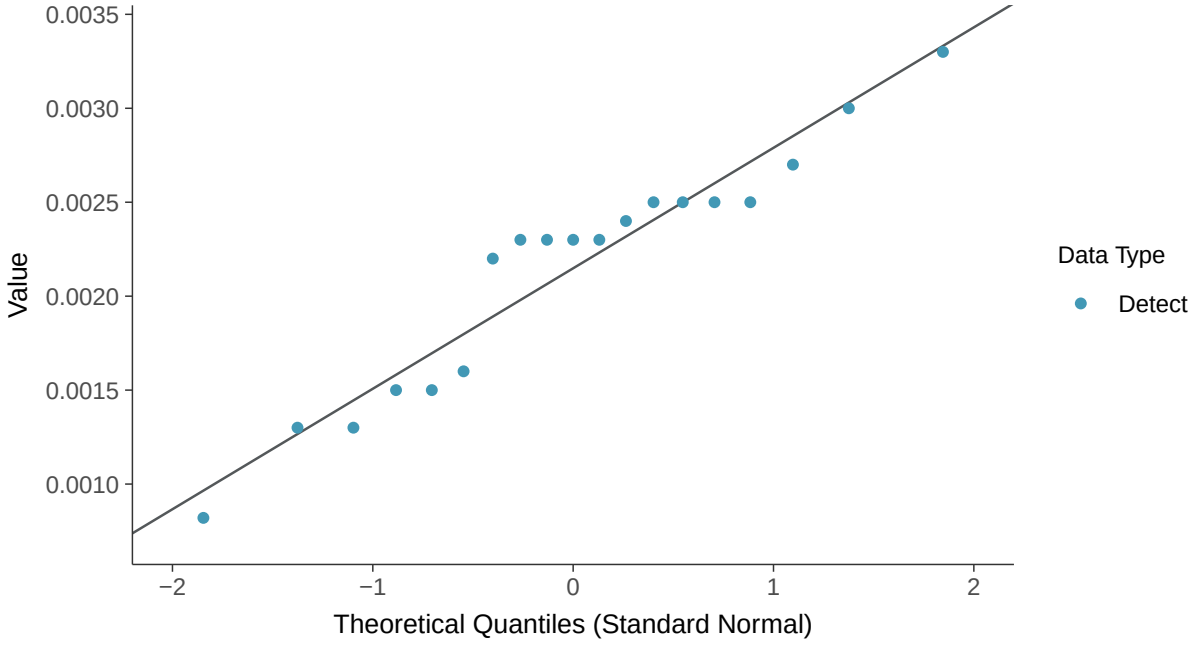
Boxplot by Season

Arsenic, MW-09 (mg/L)



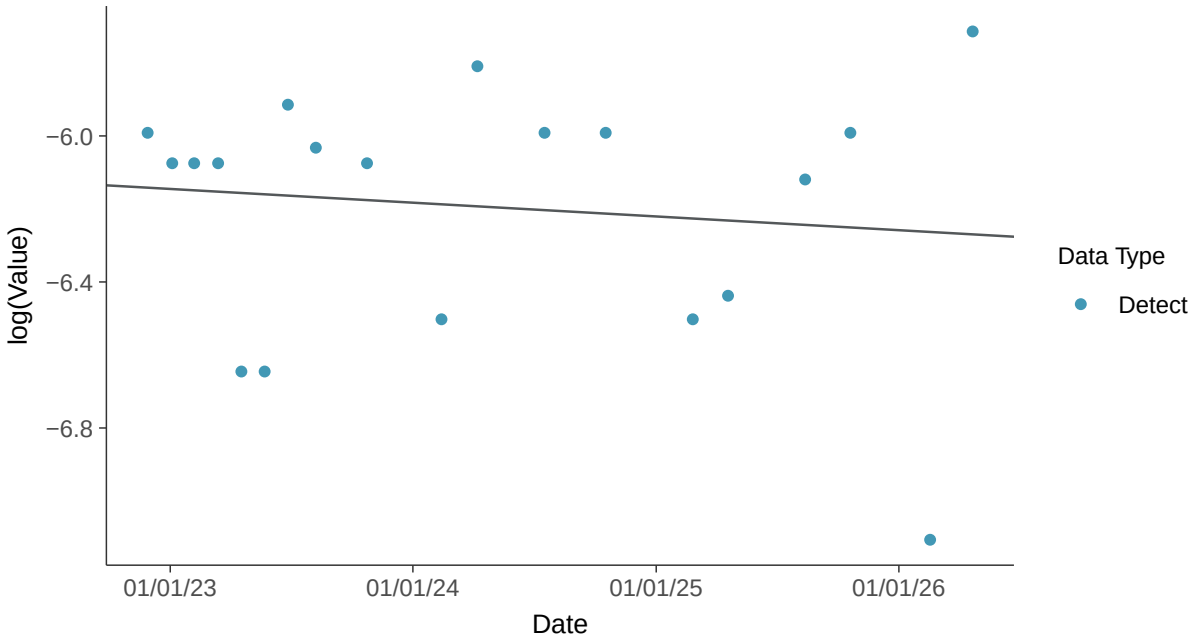
Normal Q-Q plot

Arsenic, MW-09 (mg/L)



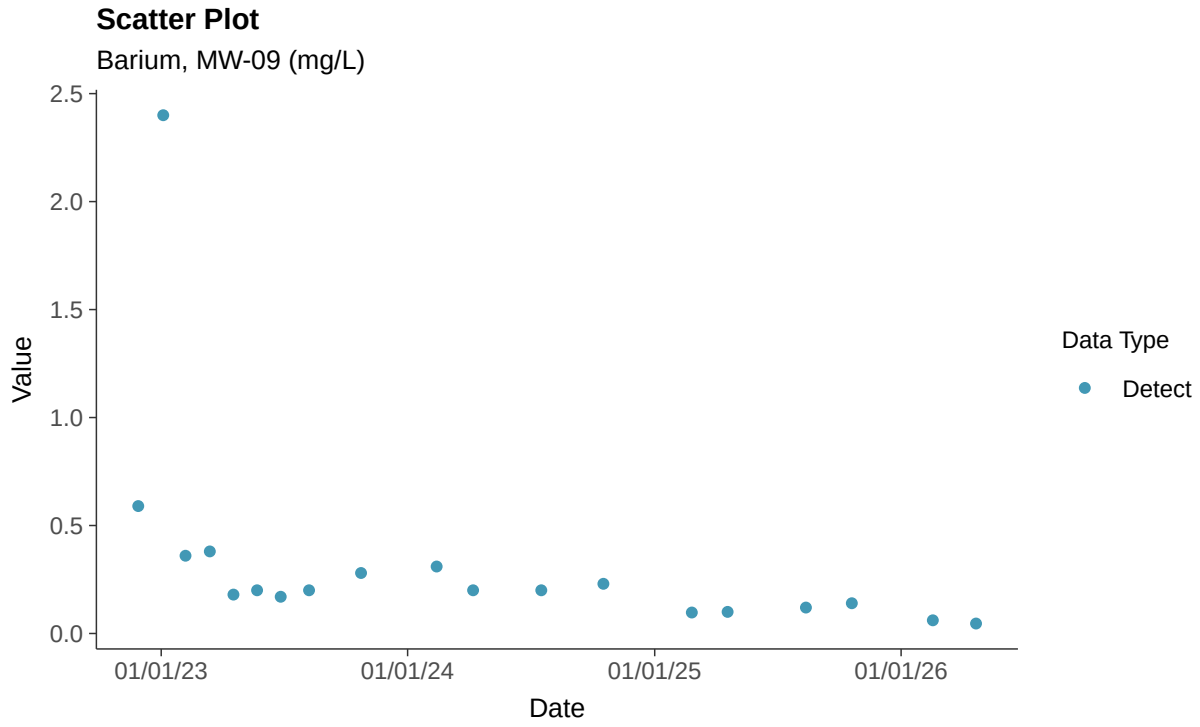
Trend Regression: Lognormal MLE

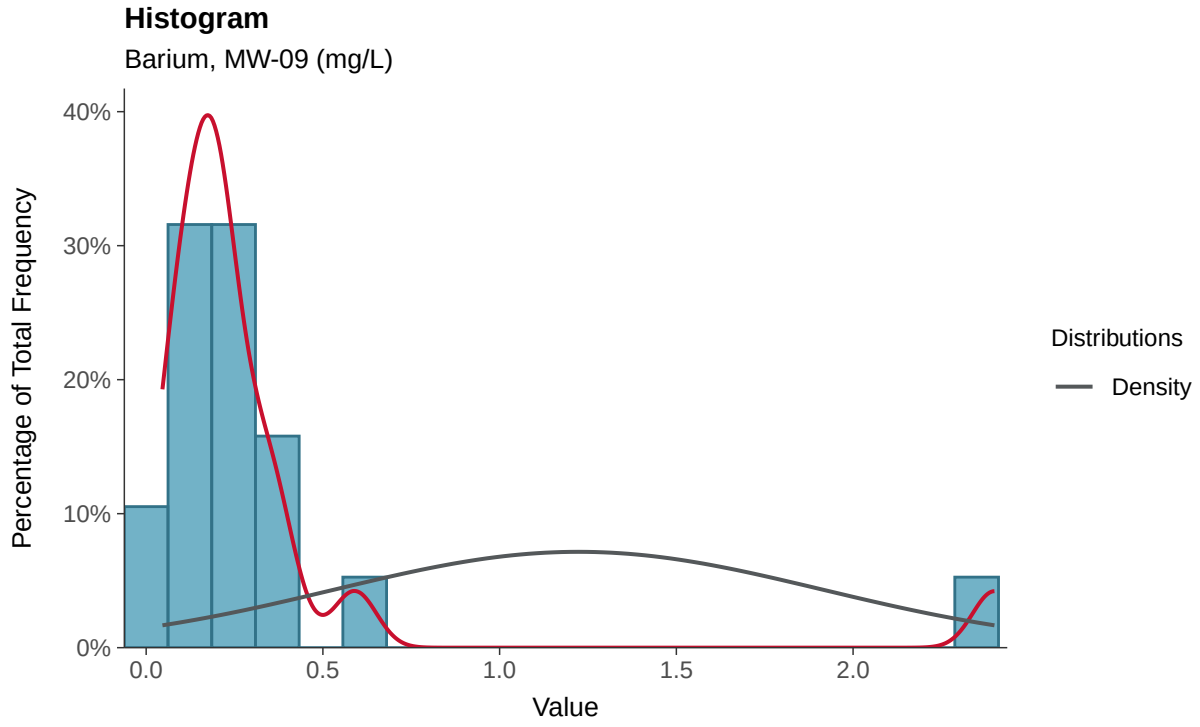
Arsenic, MW-09 (mg/L)



Appendix IV: Barium, MW-09

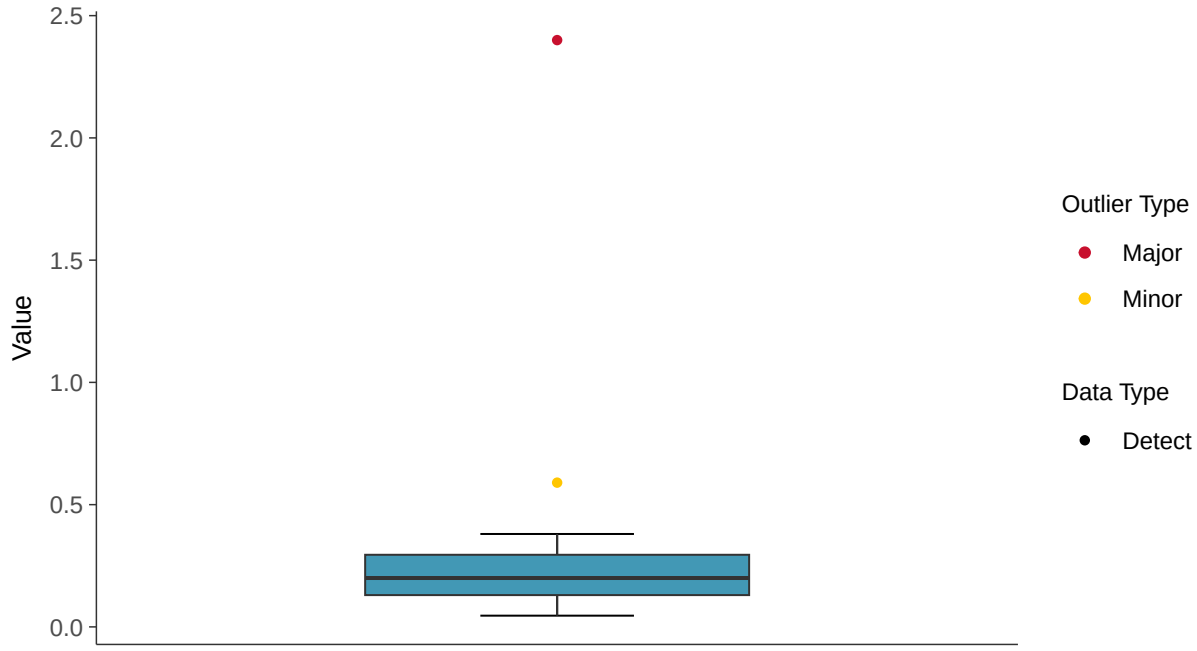
ID: 19_2_4_103





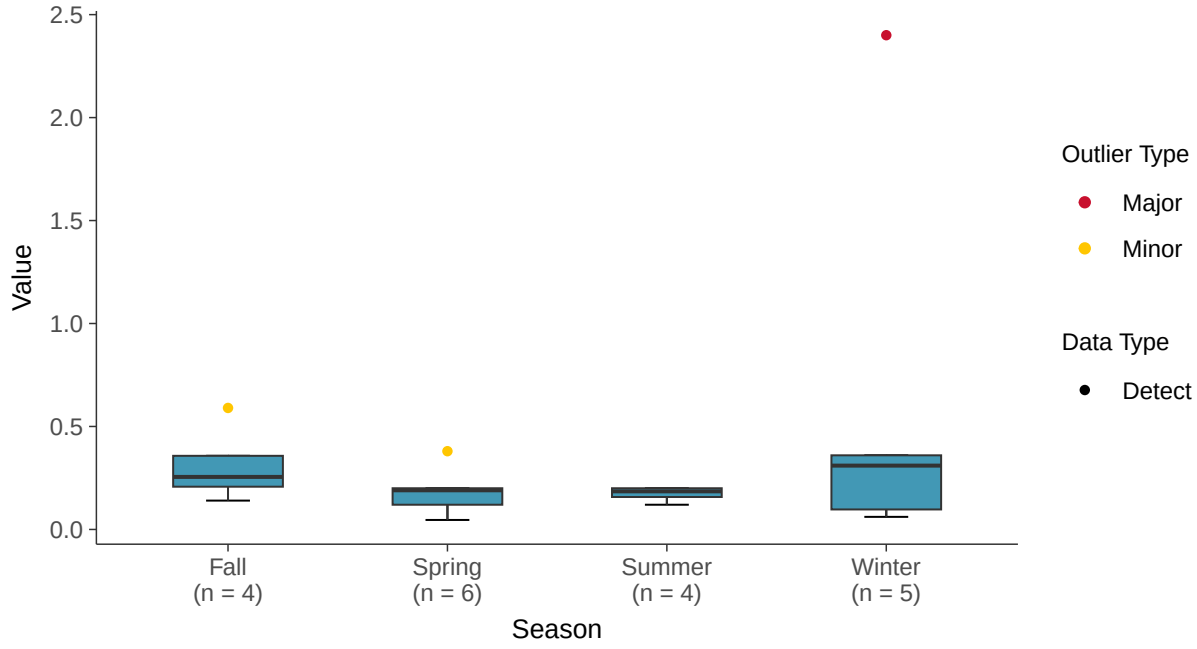
Boxplot

Barium, MW-09 (mg/L)



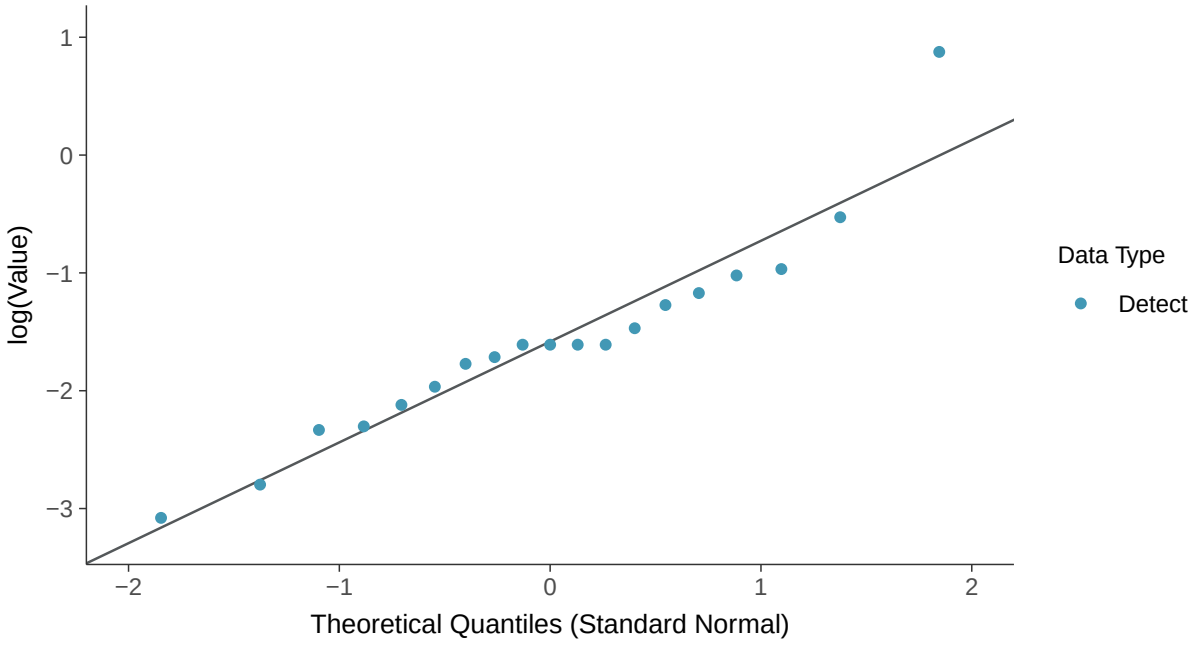
Boxplot by Season

Barium, MW-09 (mg/L)



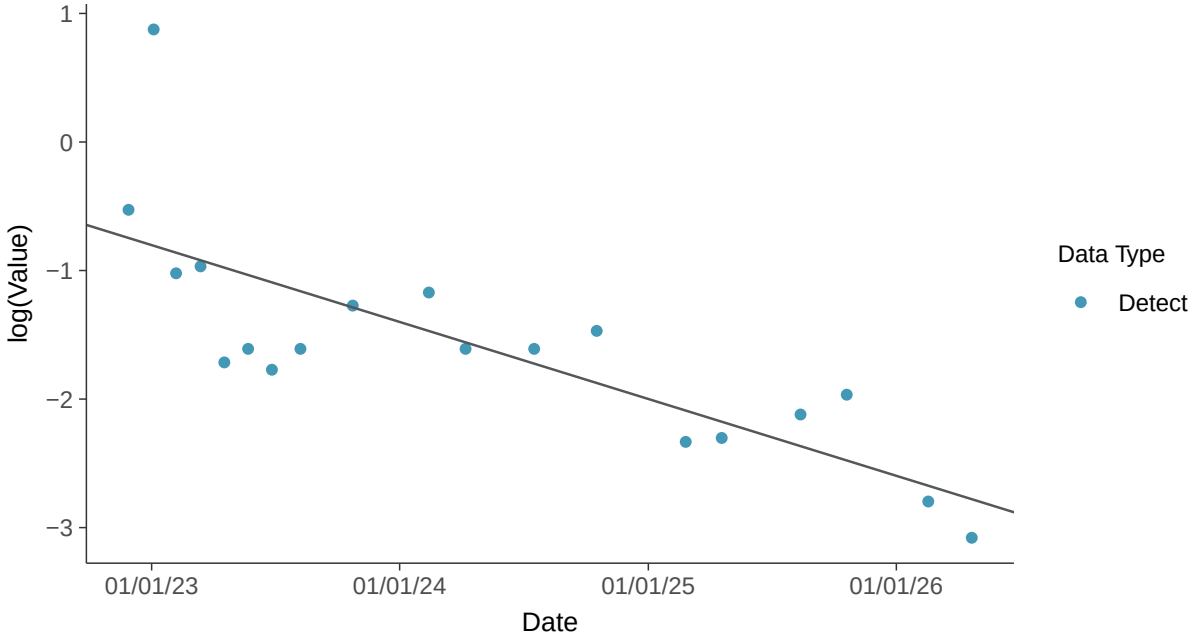
Lognormal Q-Q plot

Barium, MW-09 (mg/L)



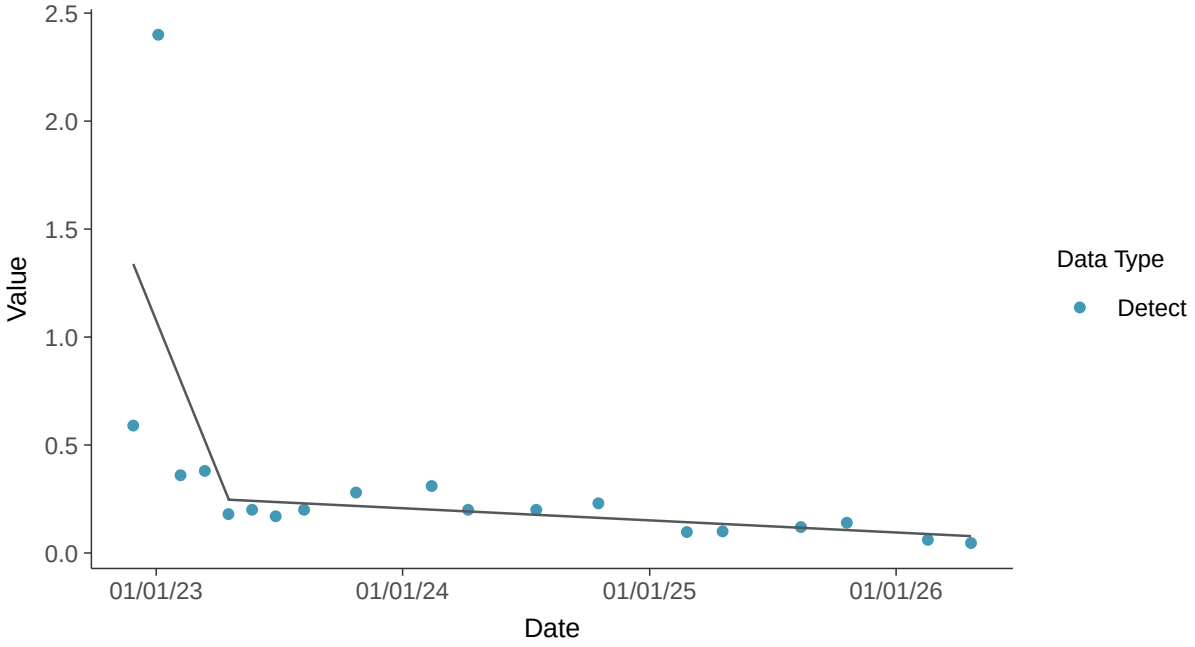
Trend Regression: Lognormal MLE

Barium, MW-09 (mg/L)



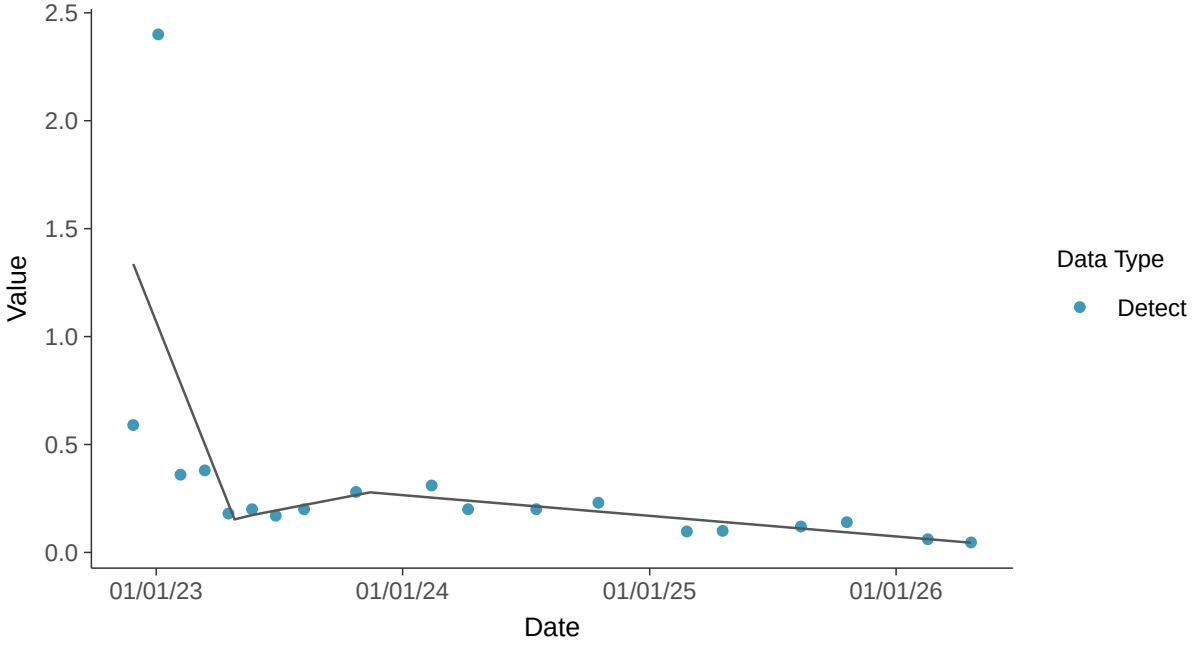
Trend Regression: Piecewise Linear-Linear

Barium, MW-09 (mg/L)



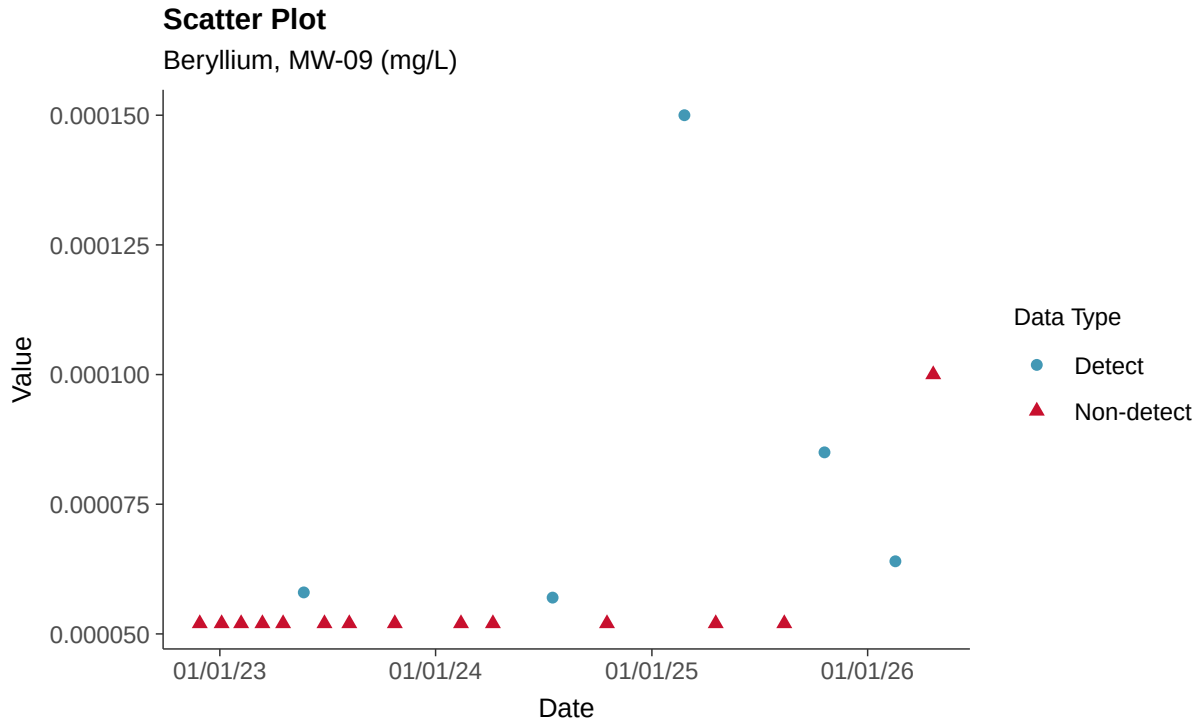
Trend Regression: Piecewise Linear-Linear-Linear

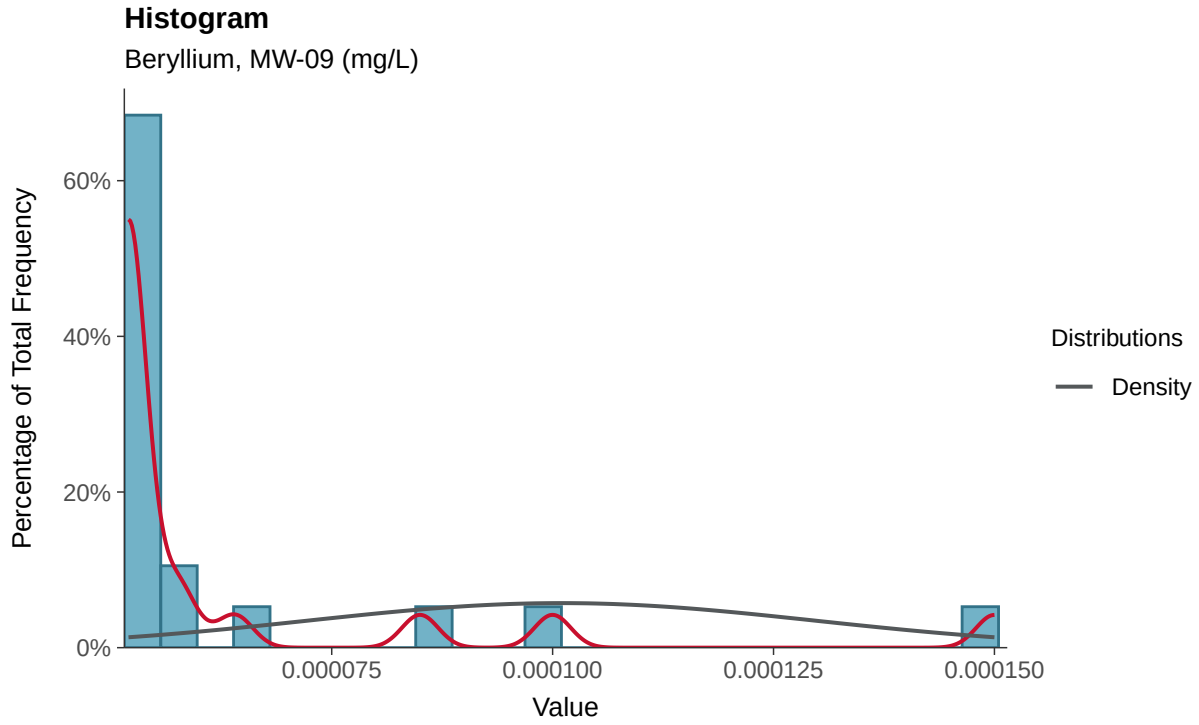
Barium, MW-09 (mg/L)



Appendix IV: Beryllium, MW-09

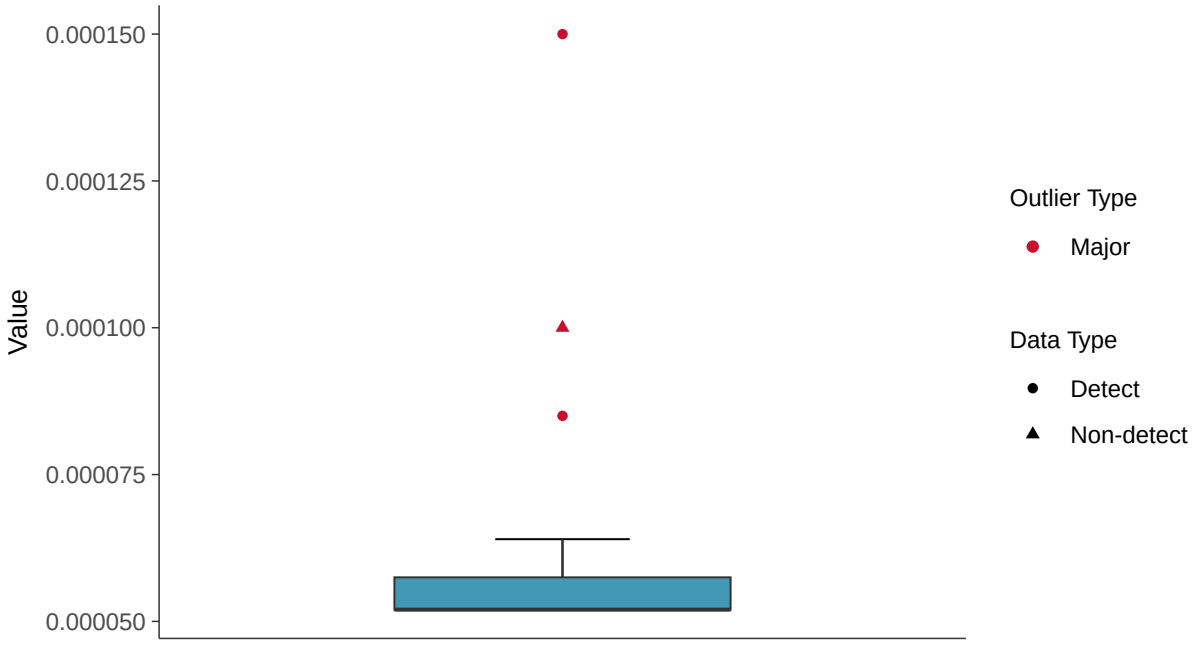
ID: 19_2_4_104





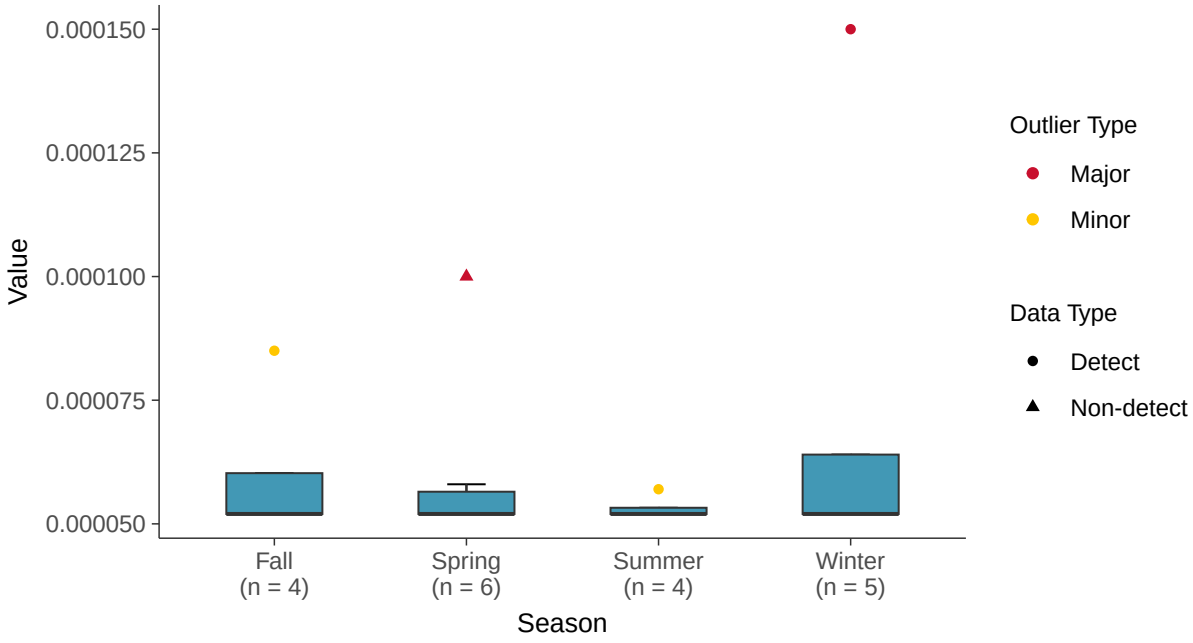
Boxplot

Beryllium, MW-09 (mg/L)



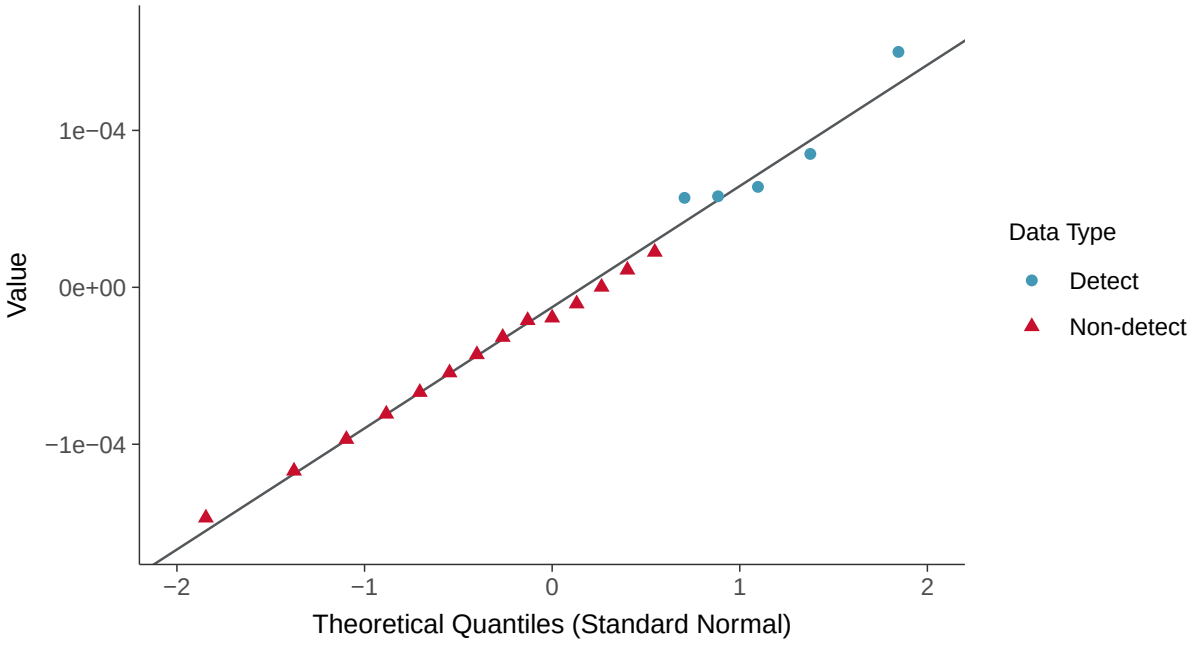
Boxplot by Season

Beryllium, MW-09 (mg/L)



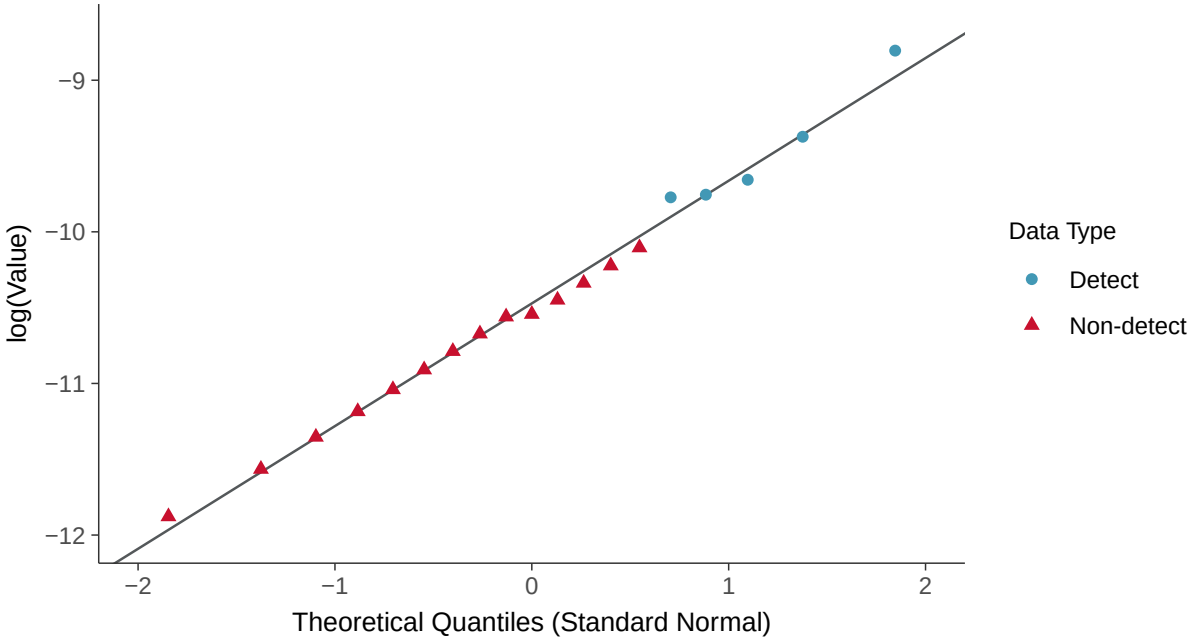
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-09 (mg/L)



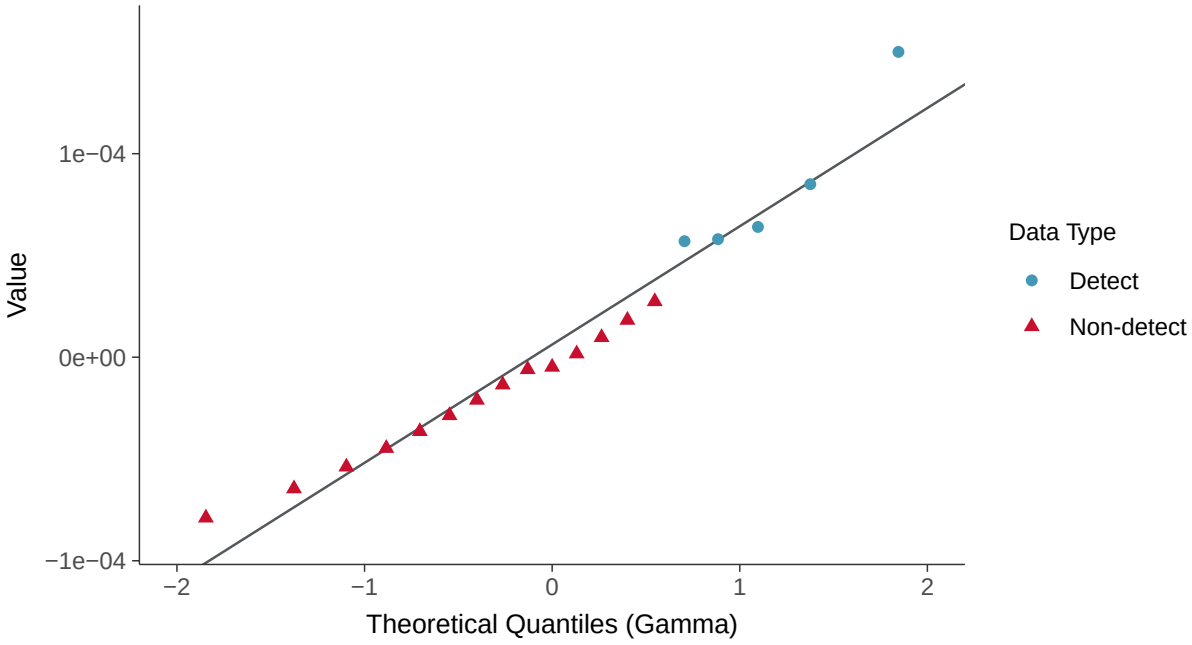
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-09 (mg/L)



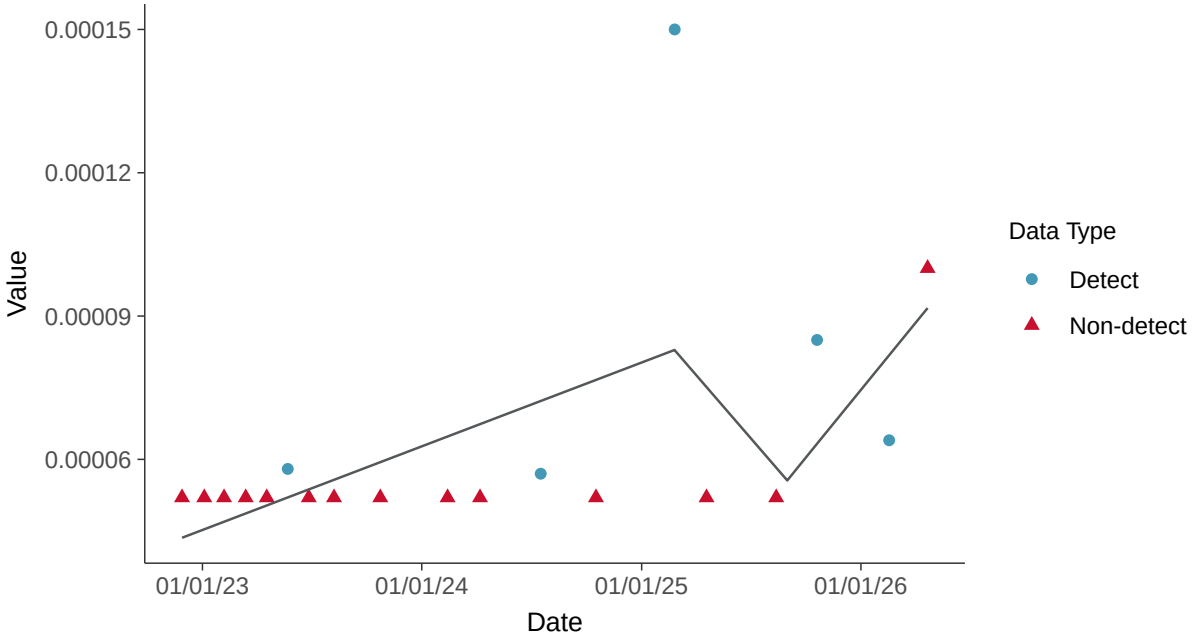
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-09 (mg/L)



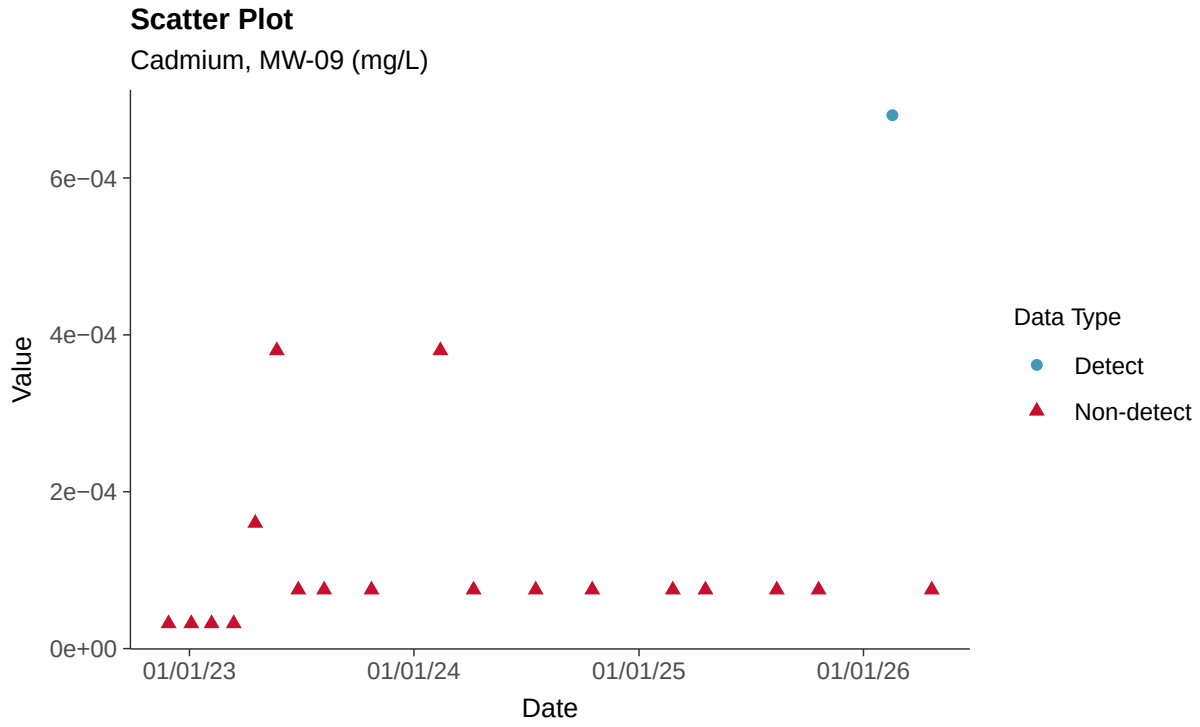
Trend Regression: Piecewise Linear-Linear-Linear

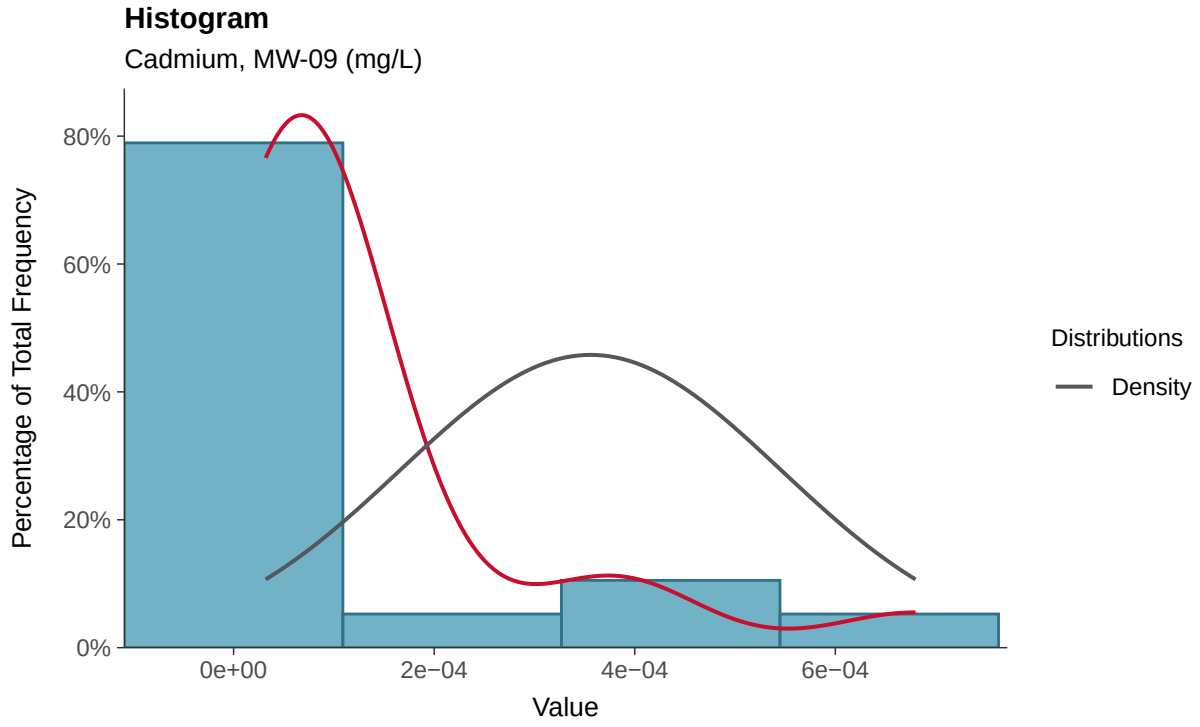
Beryllium, MW-09 (mg/L)



Appendix IV: Cadmium, MW-09

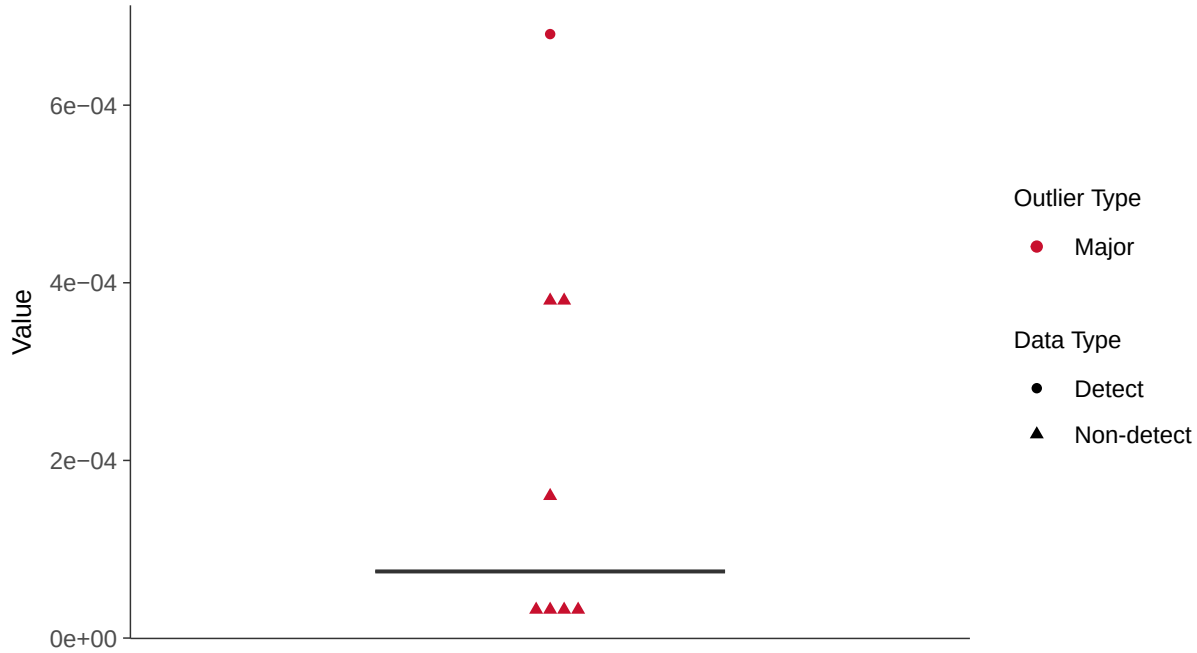
ID: 19_2_4_106





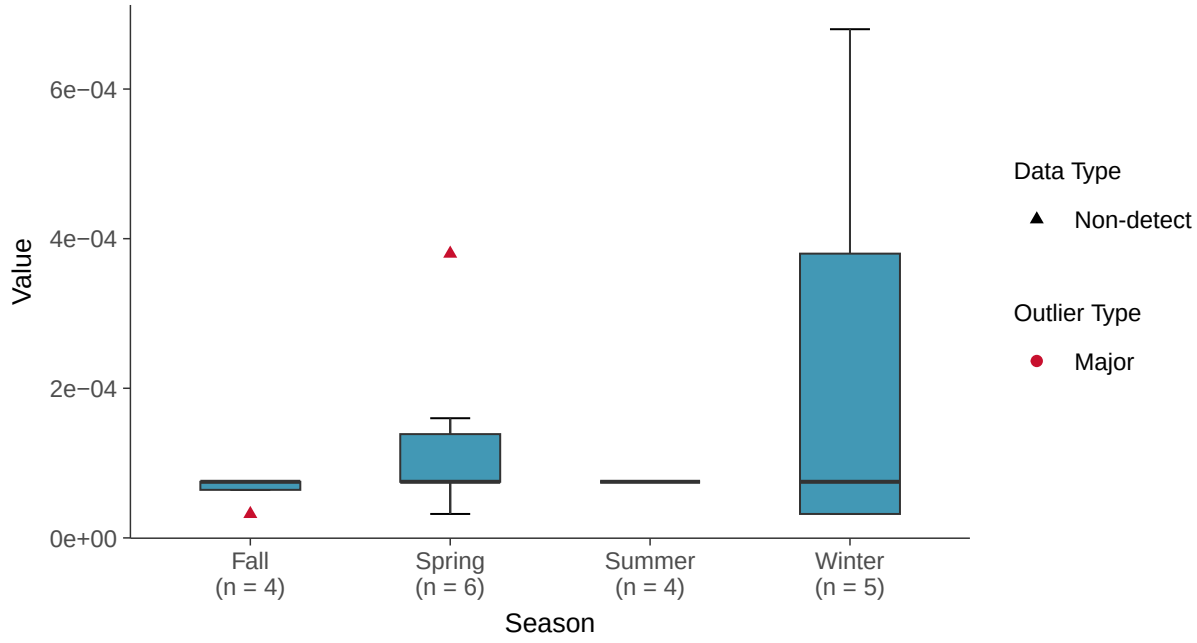
Boxplot

Cadmium, MW-09 (mg/L)



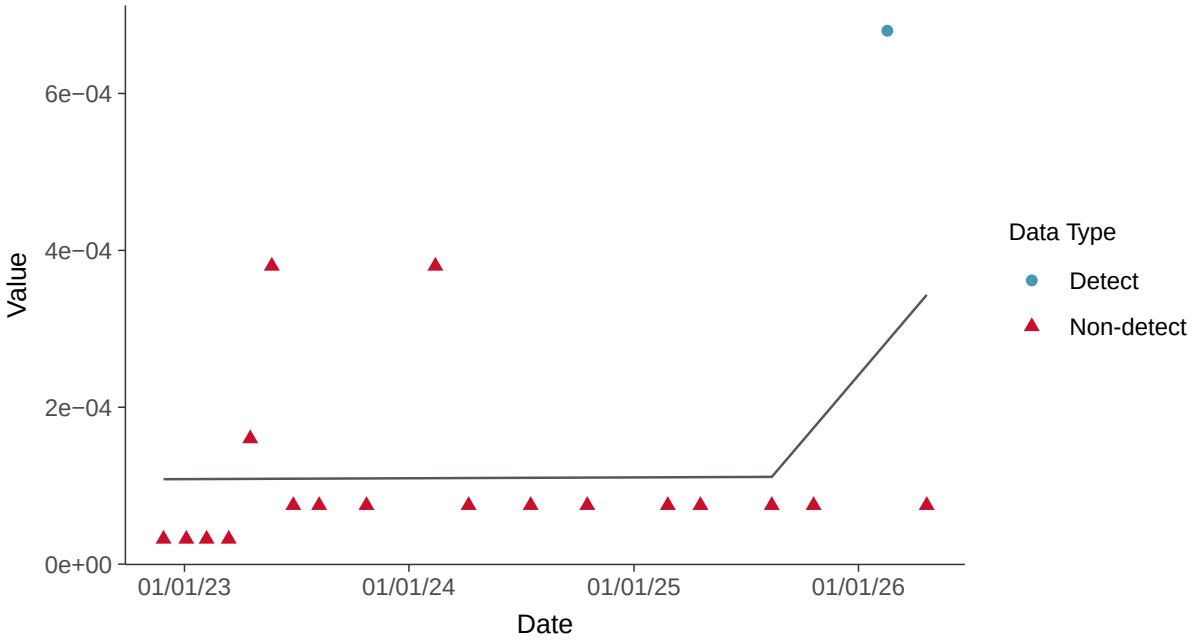
Boxplot by Season

Cadmium, MW-09 (mg/L)



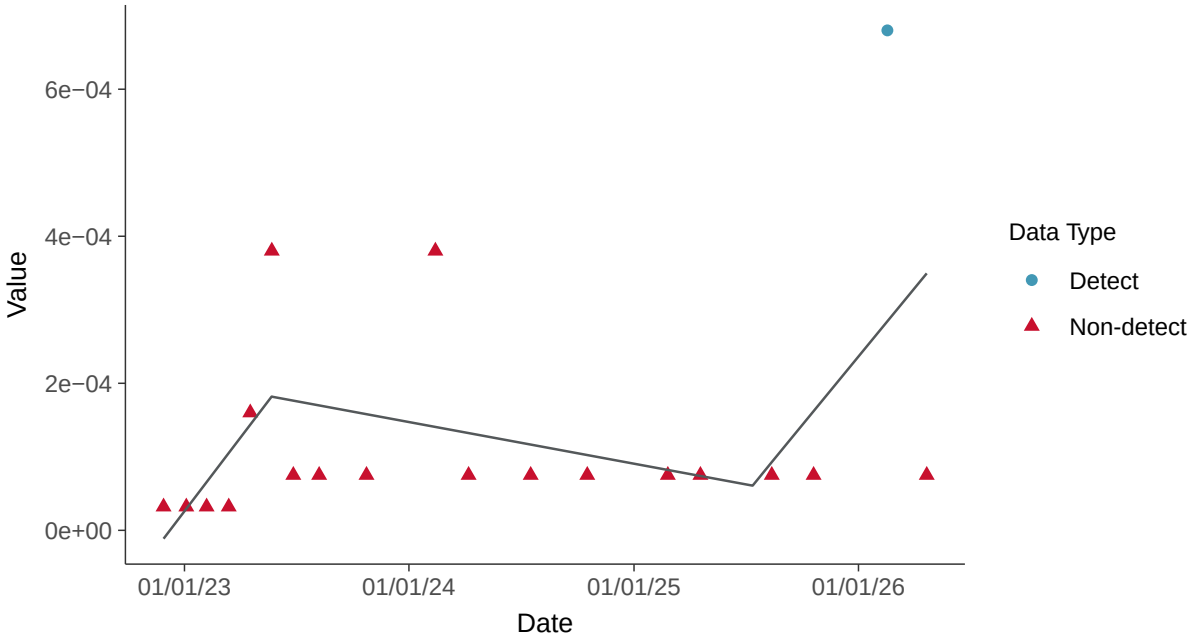
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-09 (mg/L)

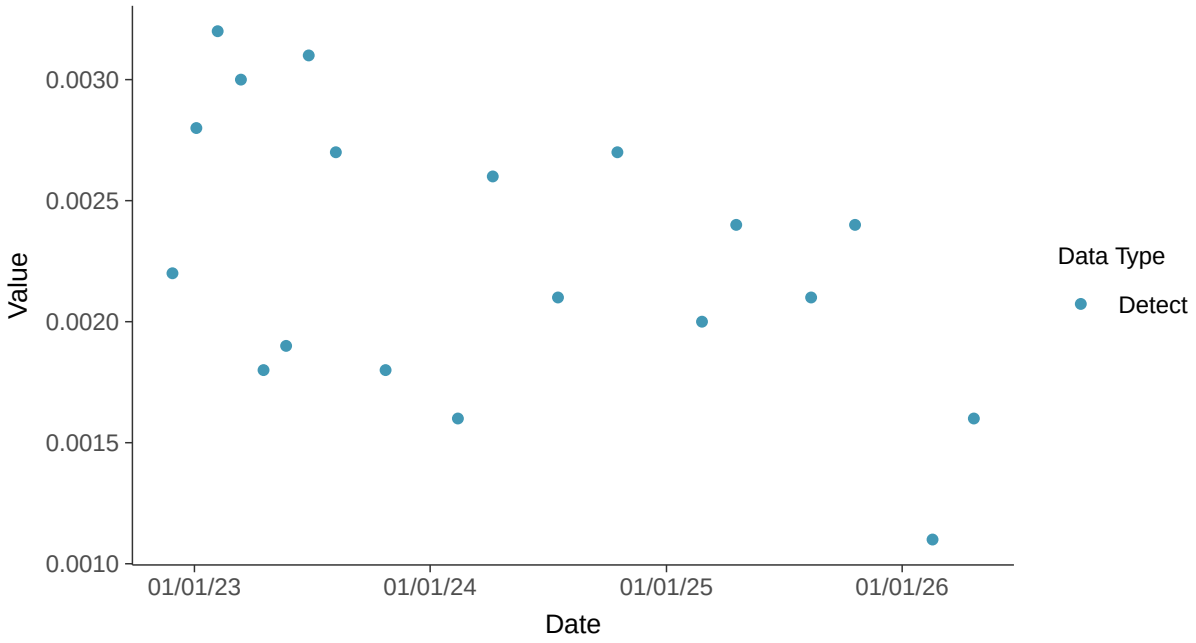


Appendix IV: Chromium, Total, MW-09

ID: 19_2_4_109

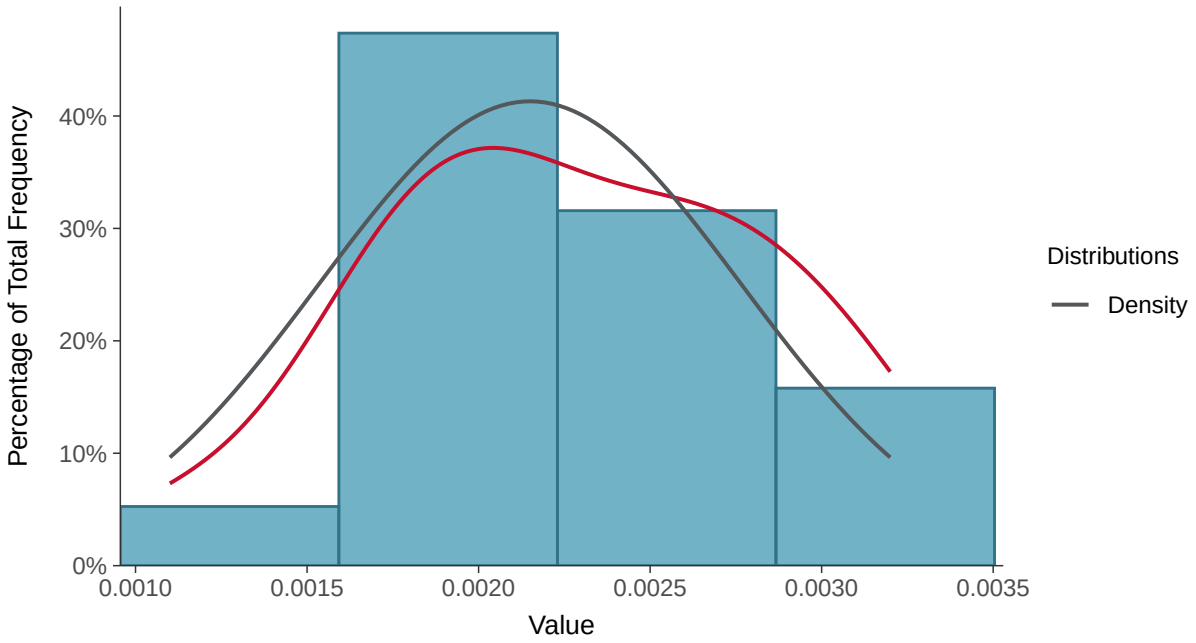
Scatter Plot

Chromium, Total, MW-09 (mg/L)



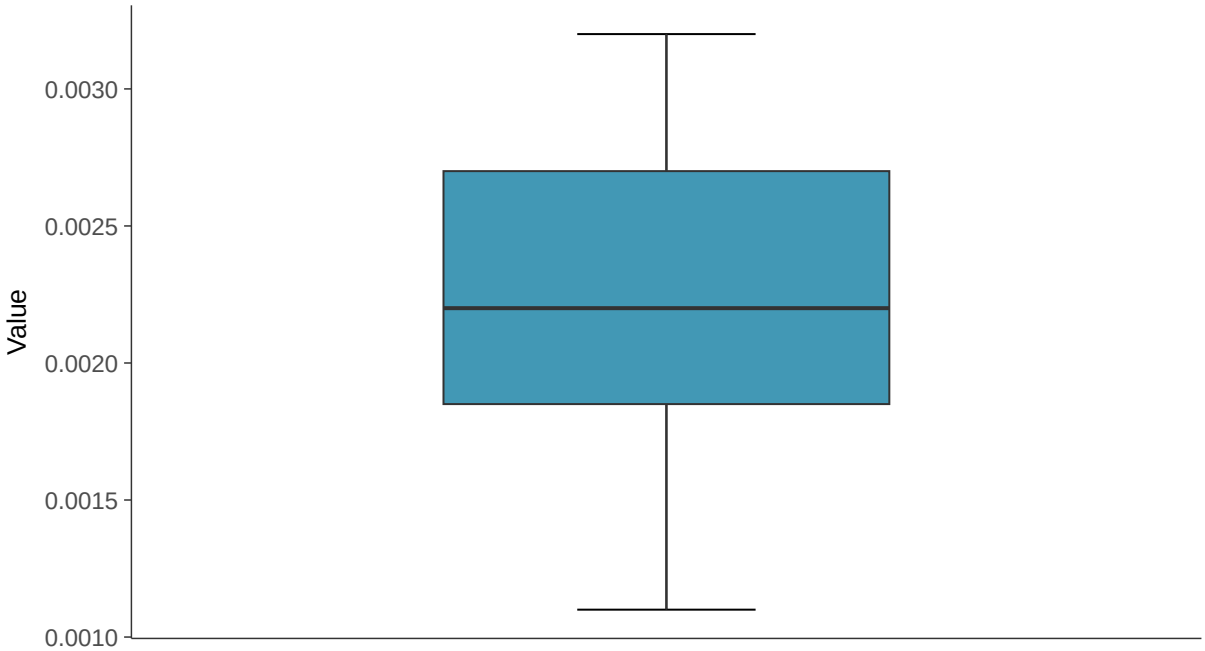
Histogram

Chromium, Total, MW-09 (mg/L)



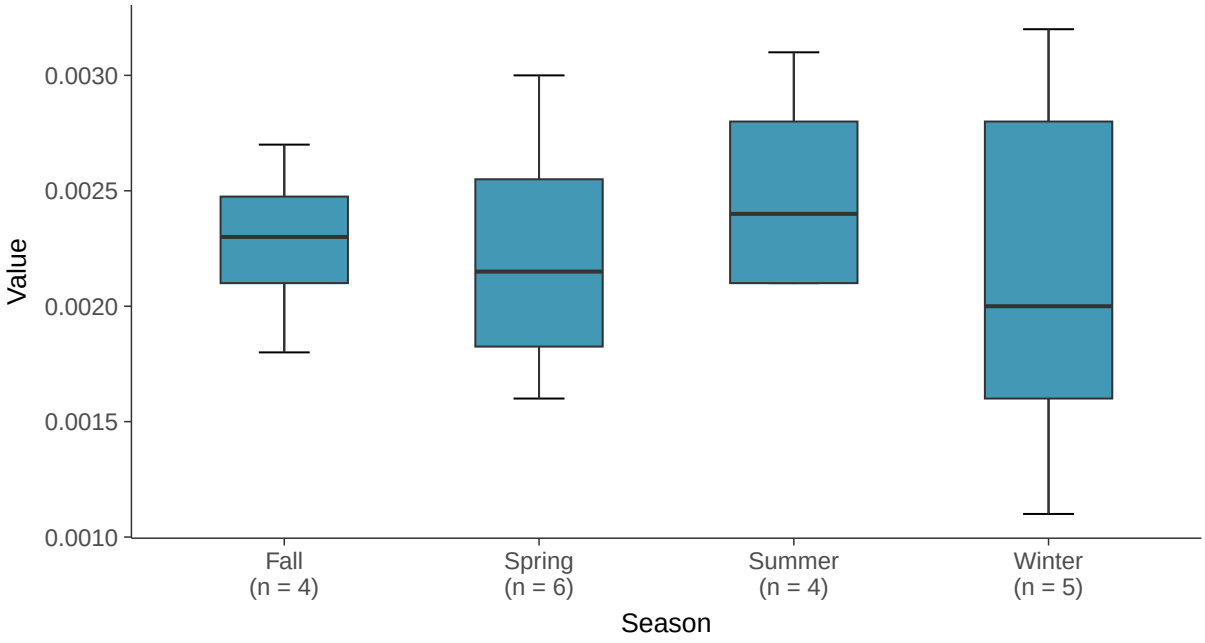
Boxplot

Chromium, Total, MW-09 (mg/L)



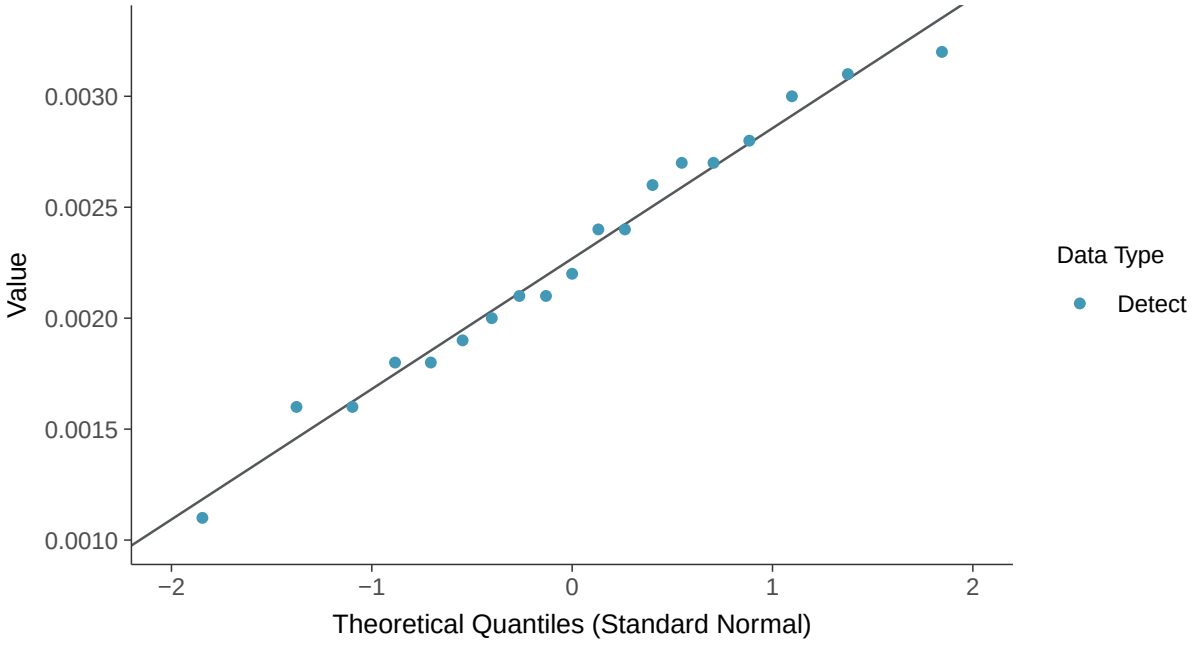
Boxplot by Season

Chromium, Total, MW-09 (mg/L)



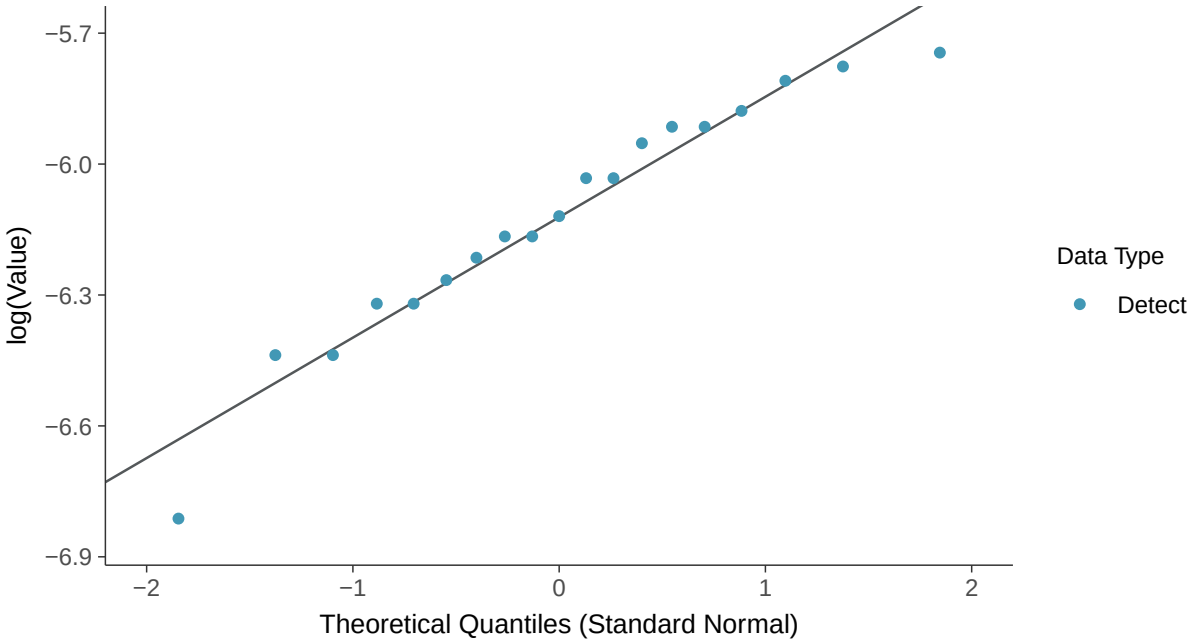
Normal Q-Q plot

Chromium, Total, MW-09 (mg/L)



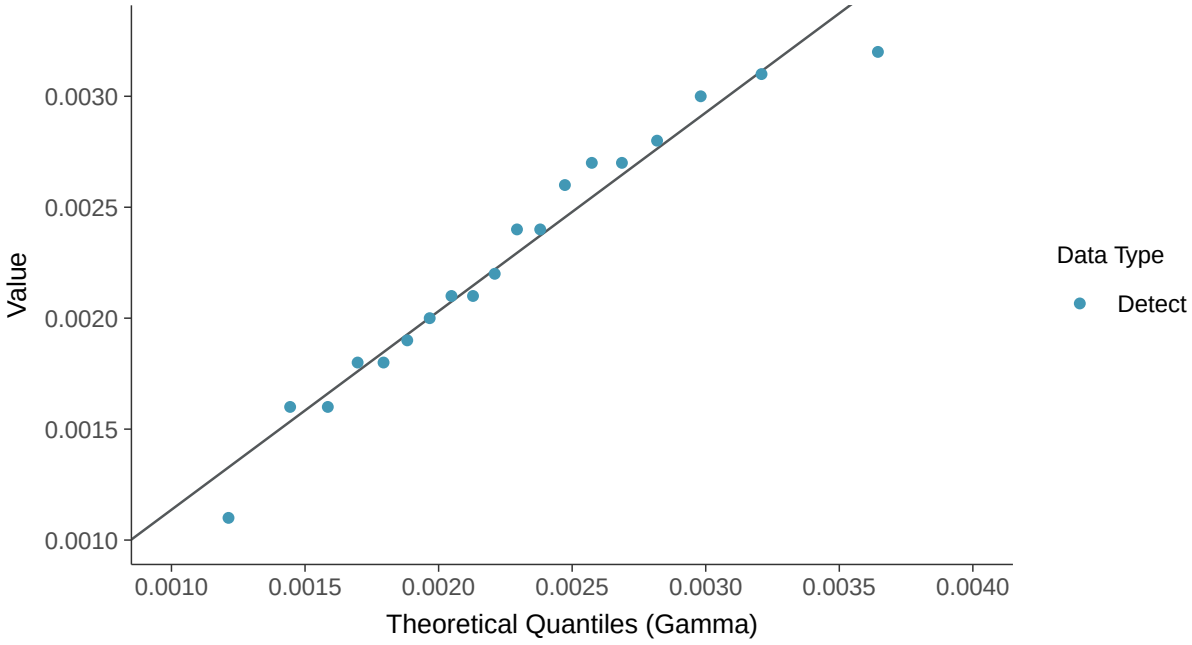
Lognormal Q-Q plot

Chromium, Total, MW-09 (mg/L)



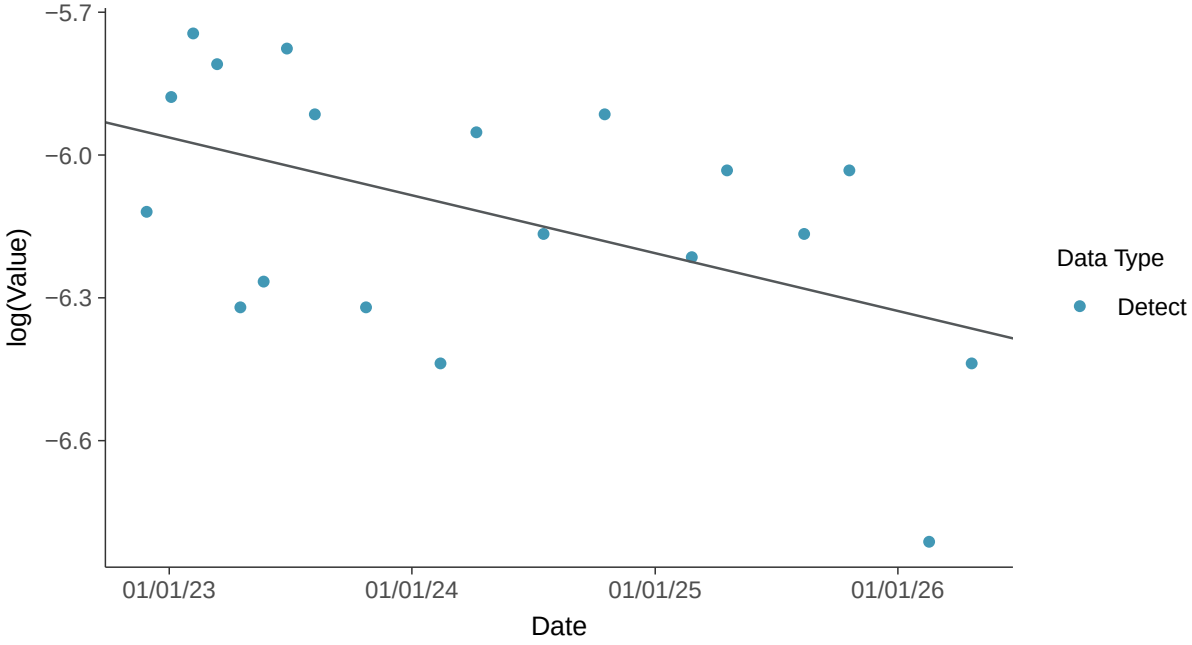
Gamma Q-Q plot

Chromium, Total, MW-09 (mg/L)



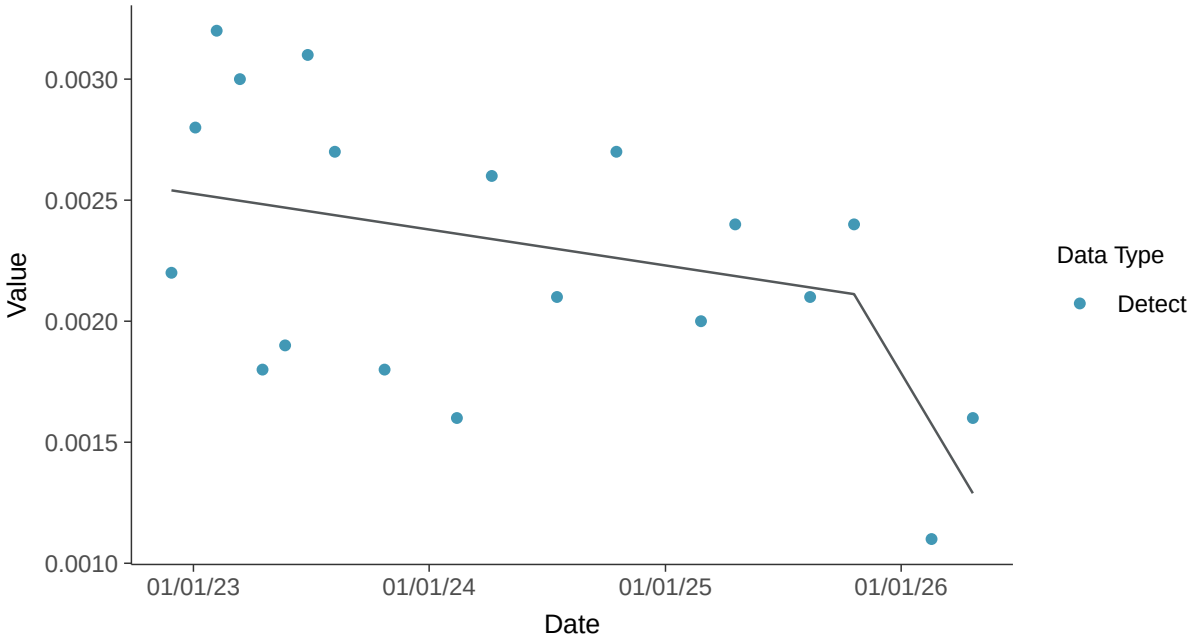
Trend Regression: Lognormal MLE

Chromium, Total, MW-09 (mg/L)



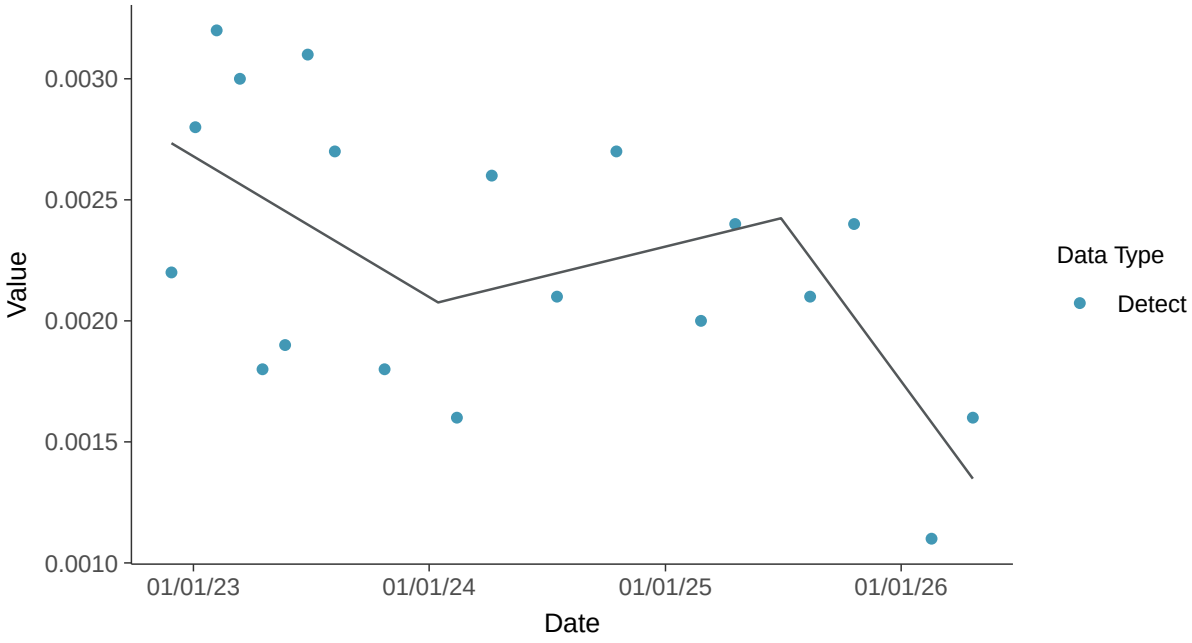
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-09 (mg/L)

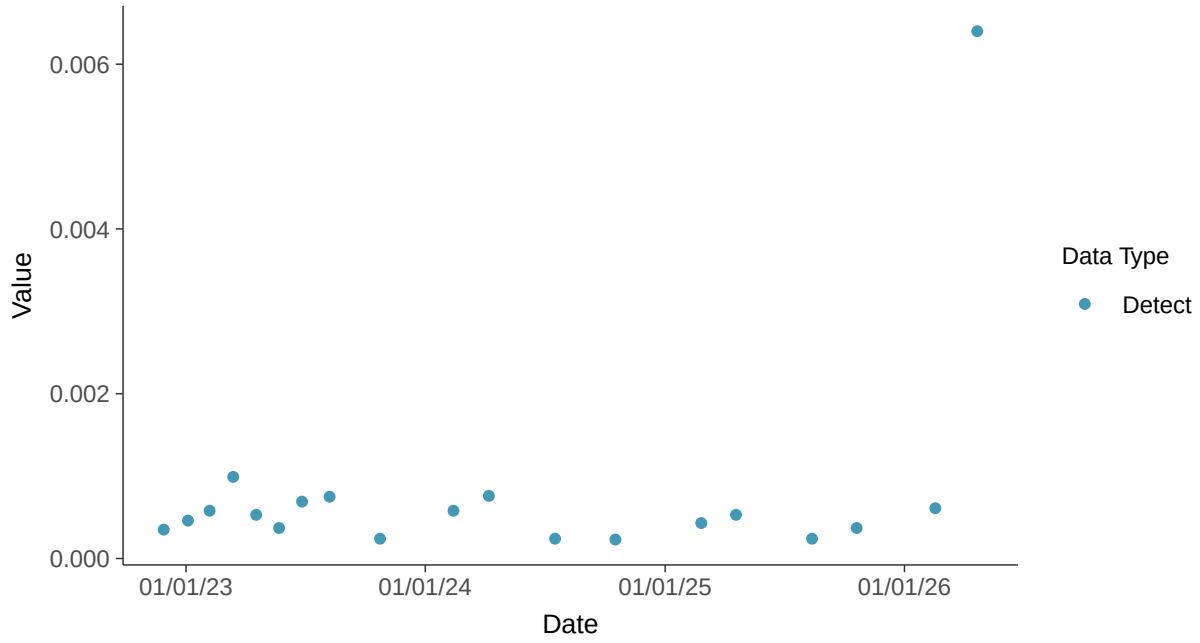


Appendix IV: Cobalt, MW-09

ID: 19_2_4_110

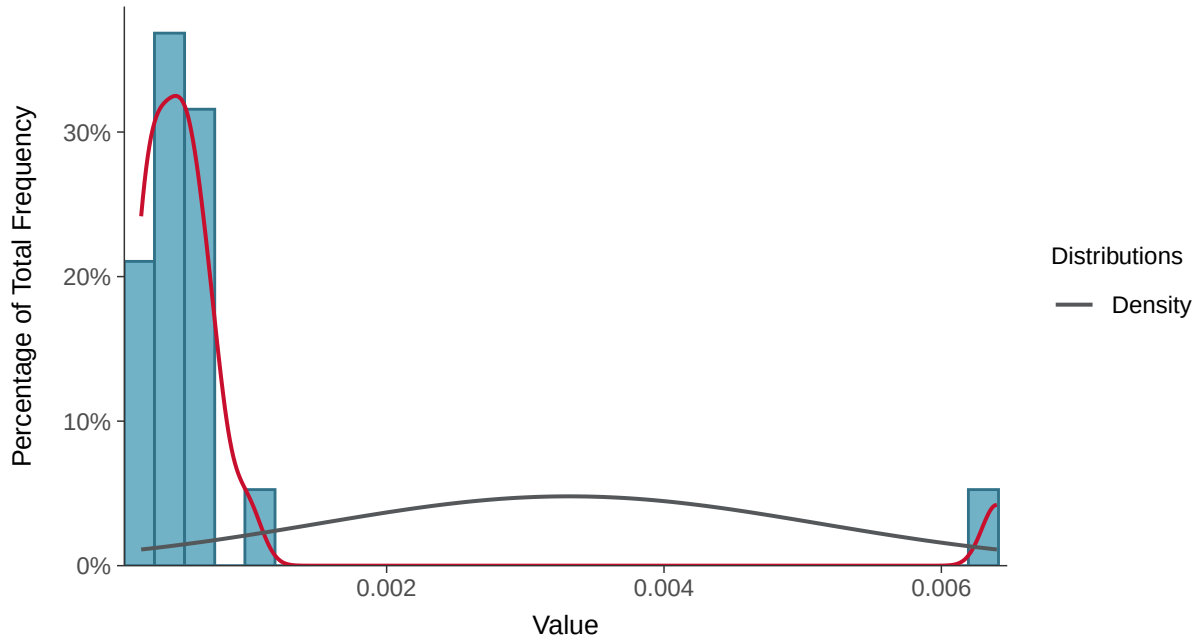
Scatter Plot

Cobalt, MW-09 (mg/L)



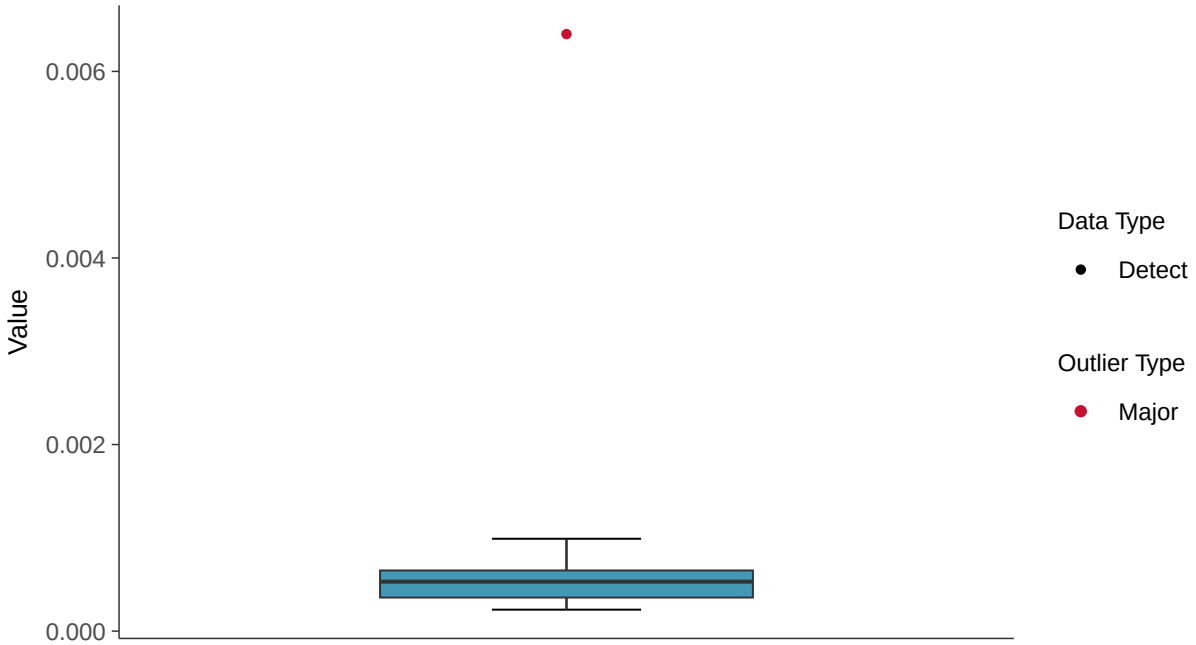
Histogram

Cobalt, MW-09 (mg/L)



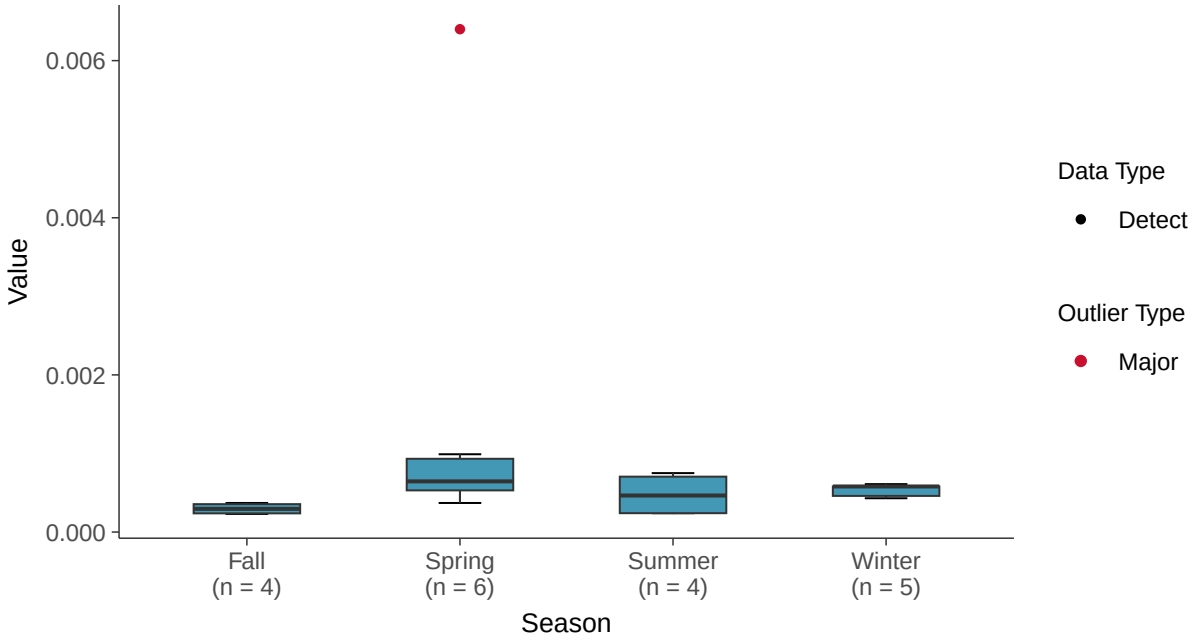
Boxplot

Cobalt, MW-09 (mg/L)



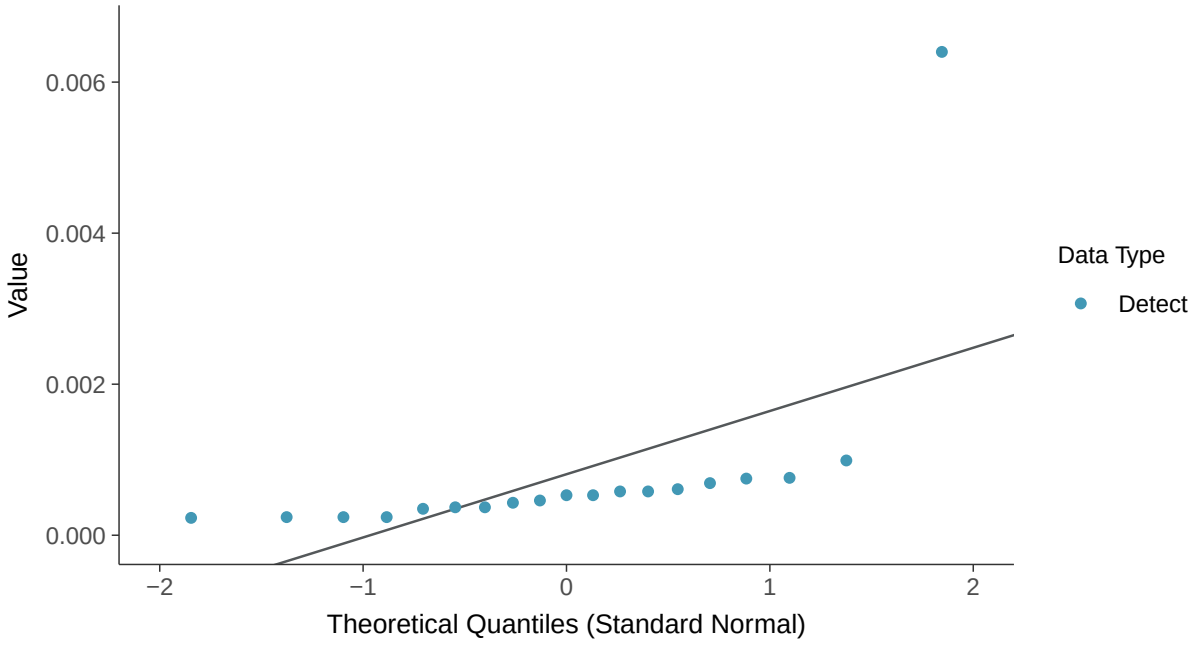
Boxplot by Season

Cobalt, MW-09 (mg/L)



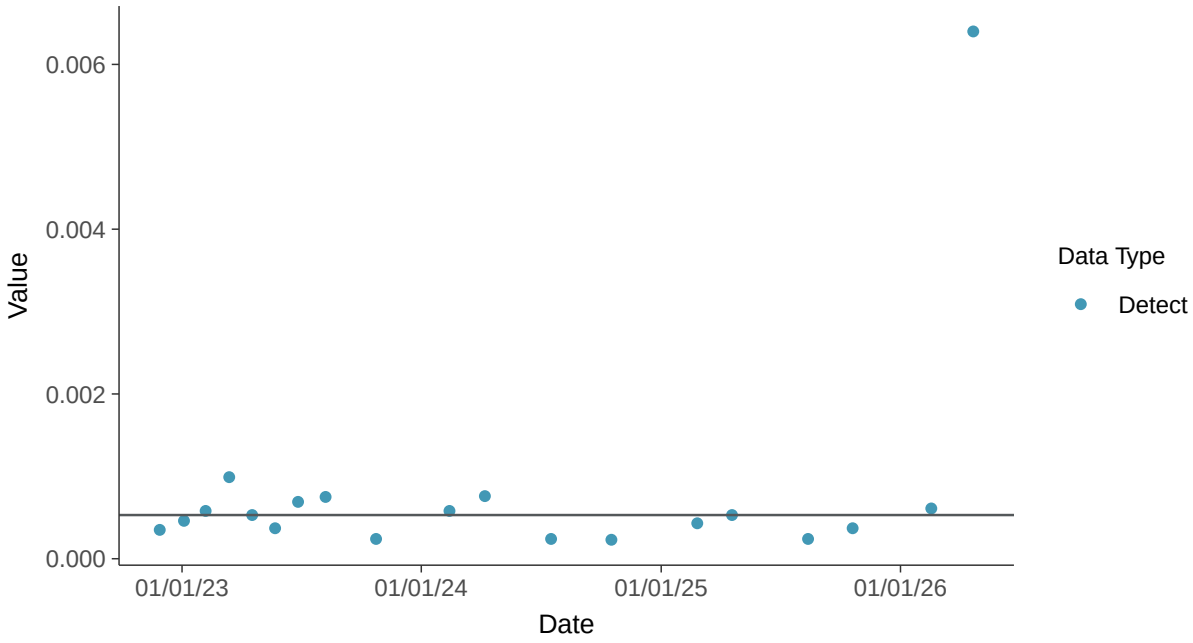
Normal Q-Q plot

Cobalt, MW-09 (mg/L)



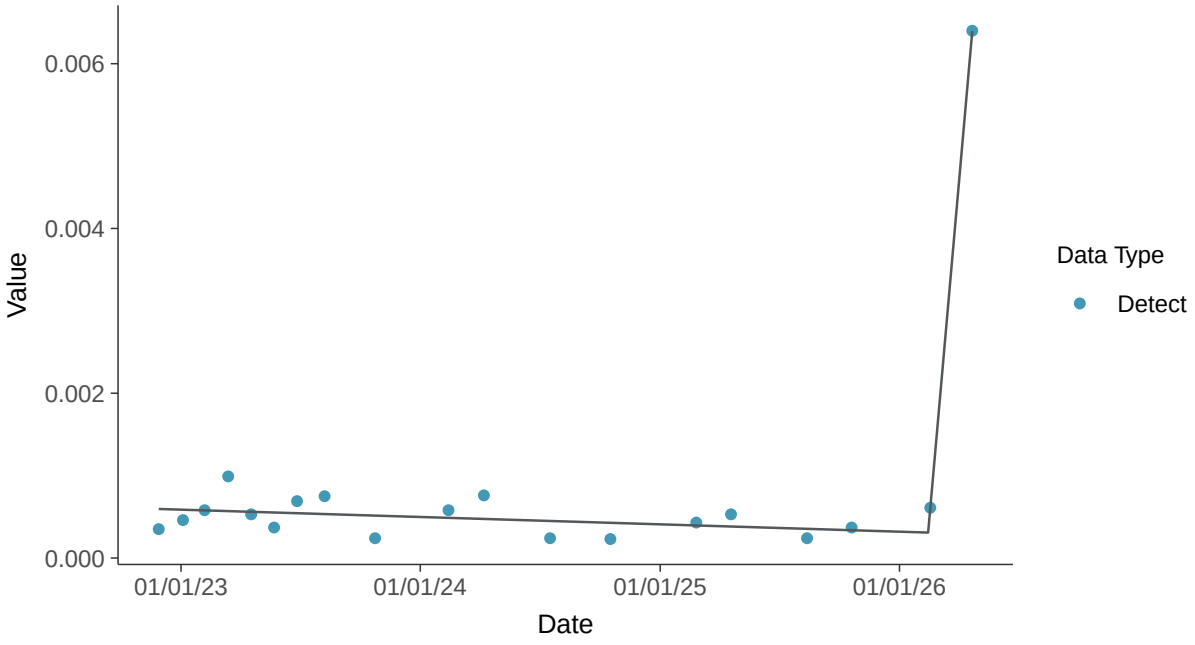
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-09 (mg/L)



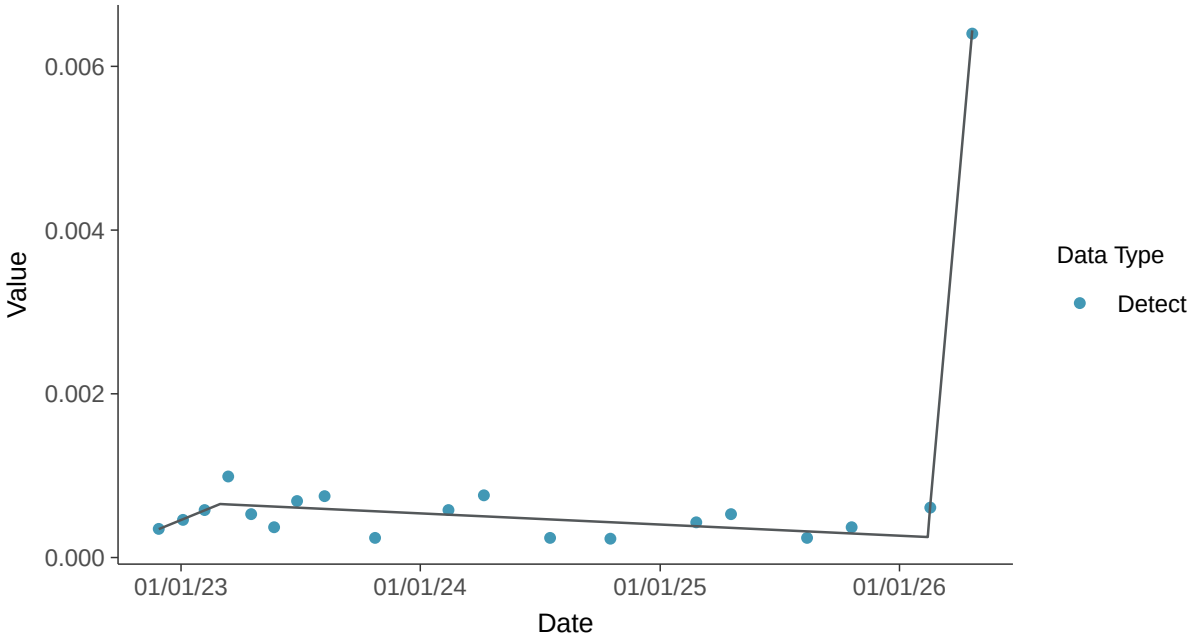
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-09 (mg/L)

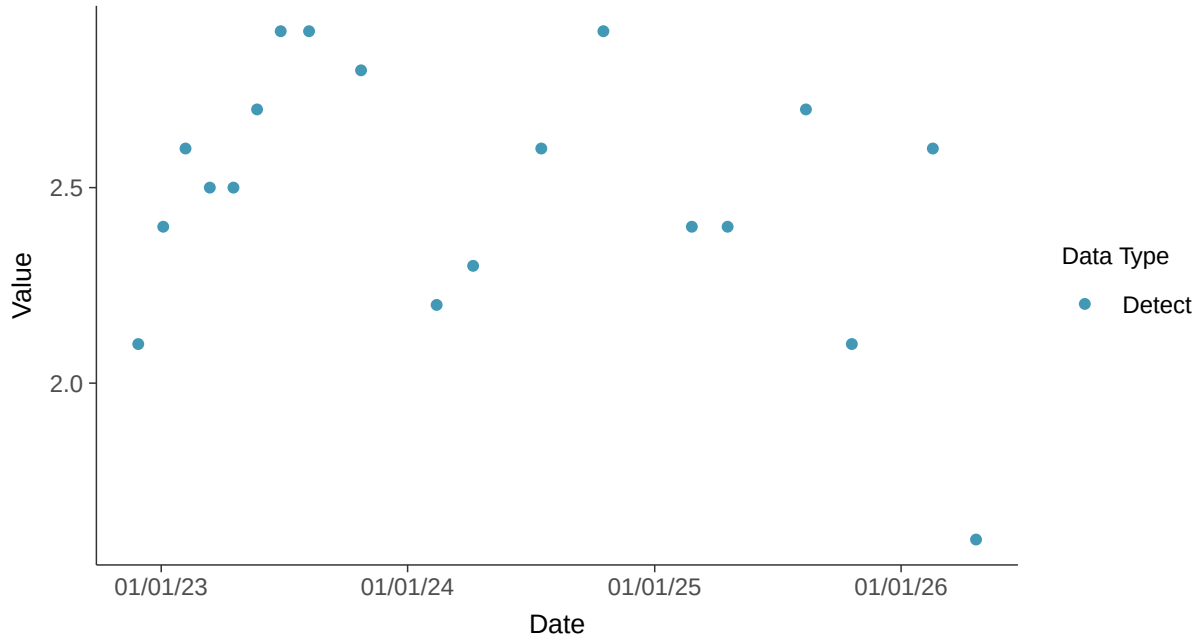


Appendix IV: Fluoride (App IV), MW-09

ID: 19_2_4_113

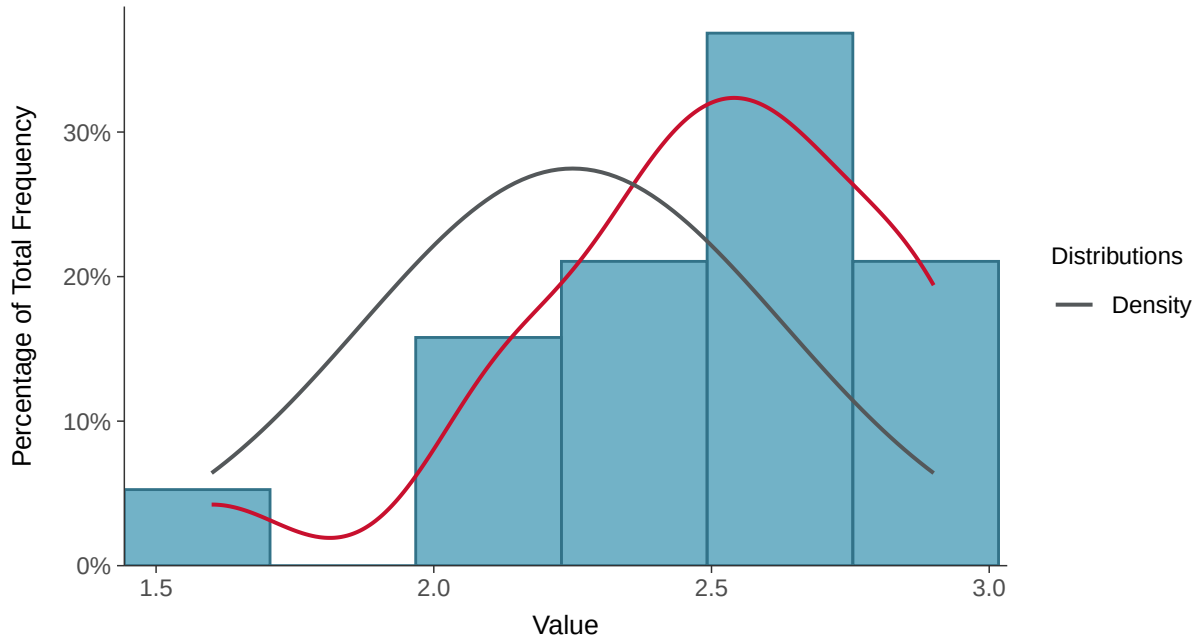
Scatter Plot

Fluoride (App IV), MW-09 (mg/L)



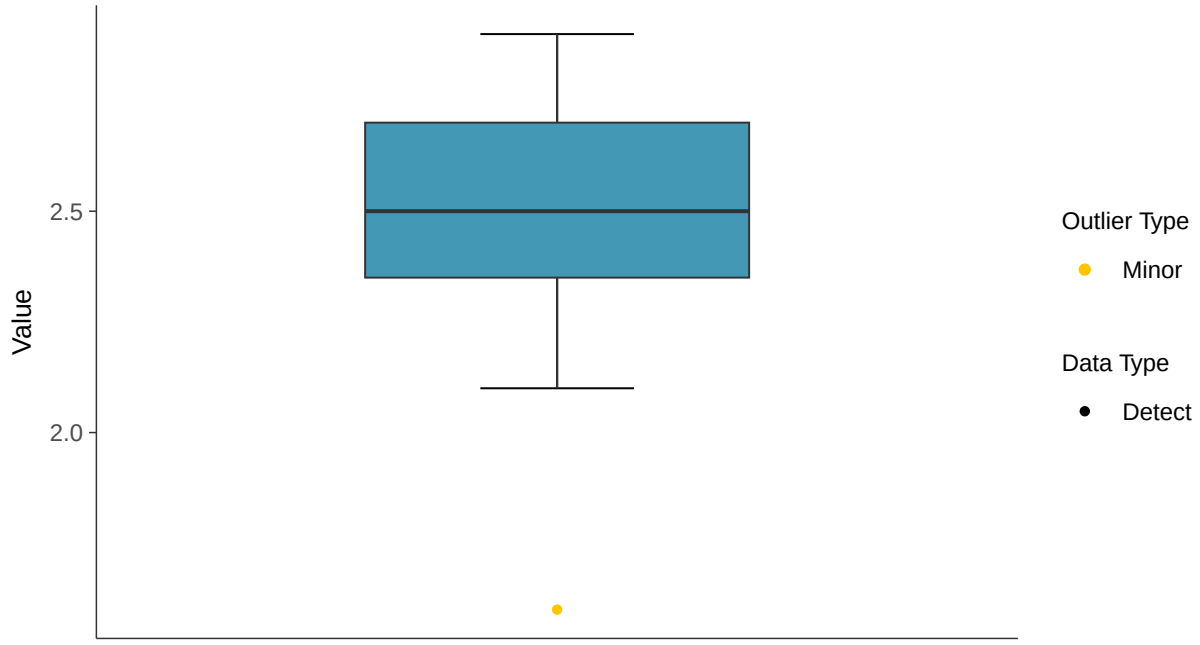
Histogram

Fluoride (App IV), MW-09 (mg/L)



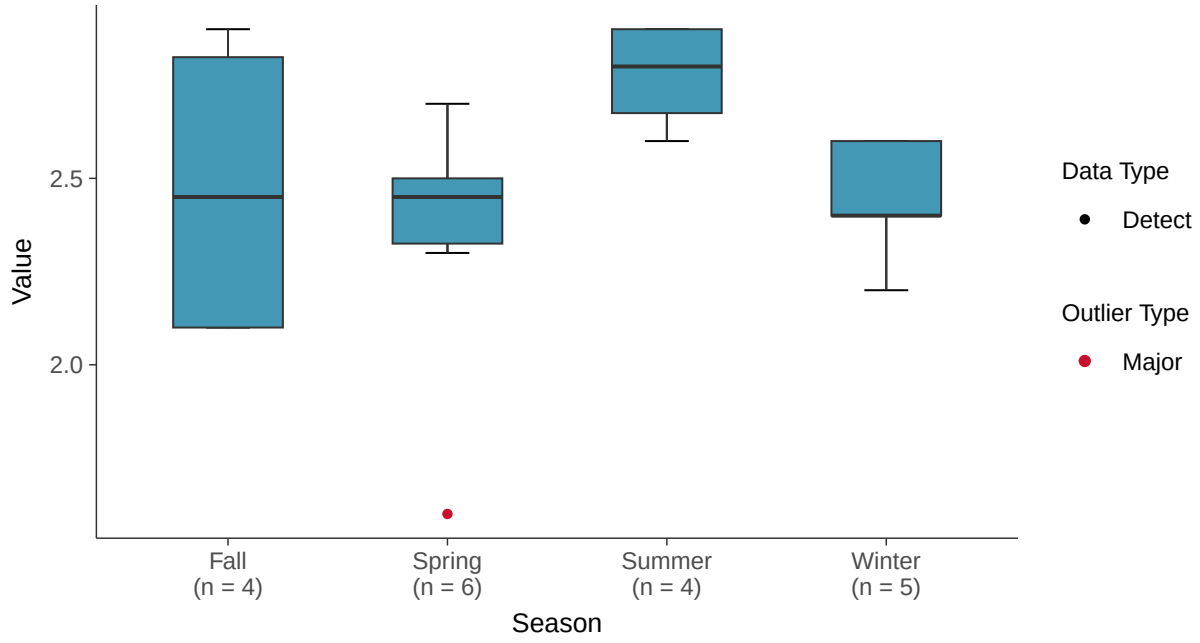
Boxplot

Fluoride (App IV), MW-09 (mg/L)



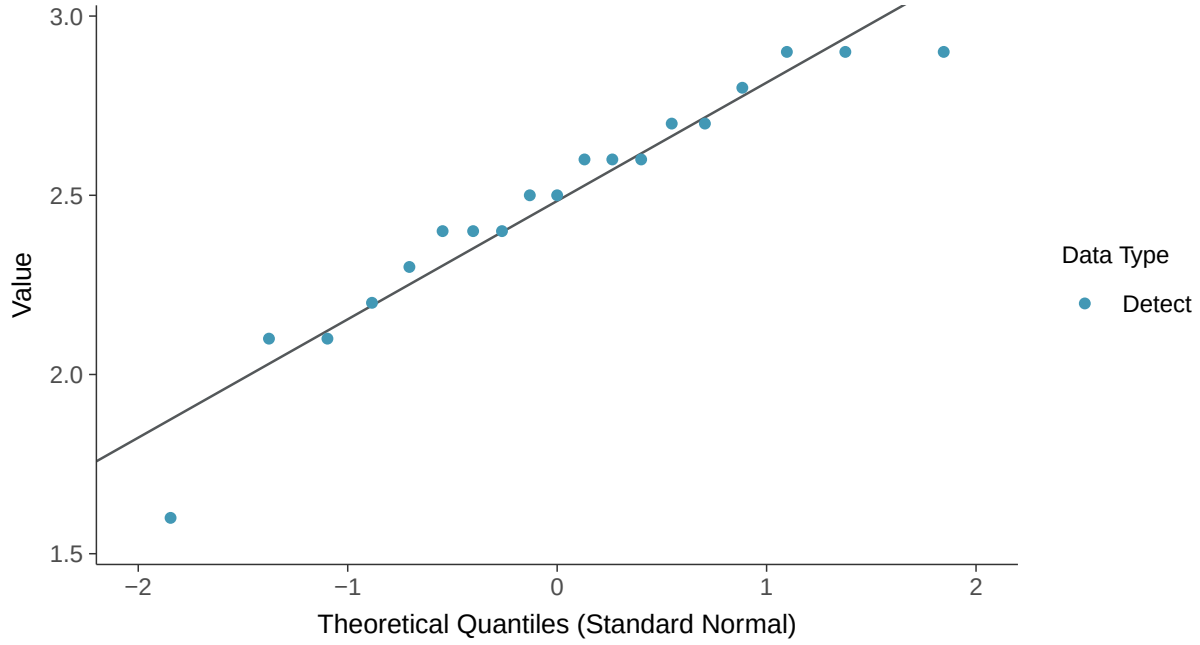
Boxplot by Season

Fluoride (App IV), MW-09 (mg/L)



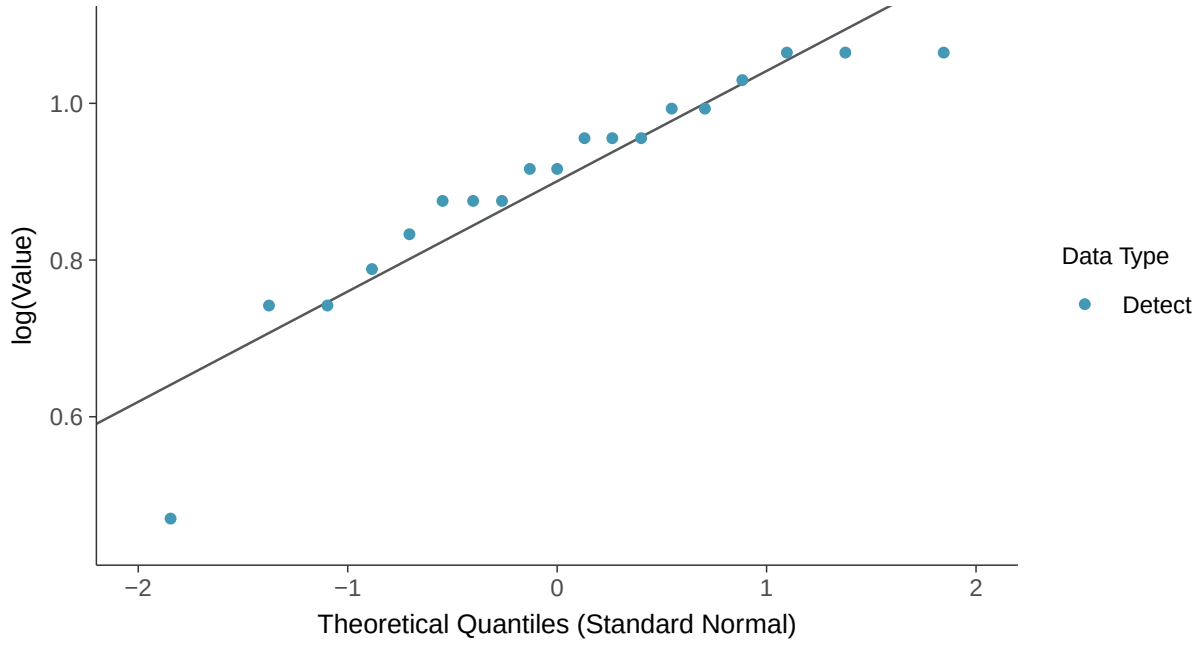
Normal Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



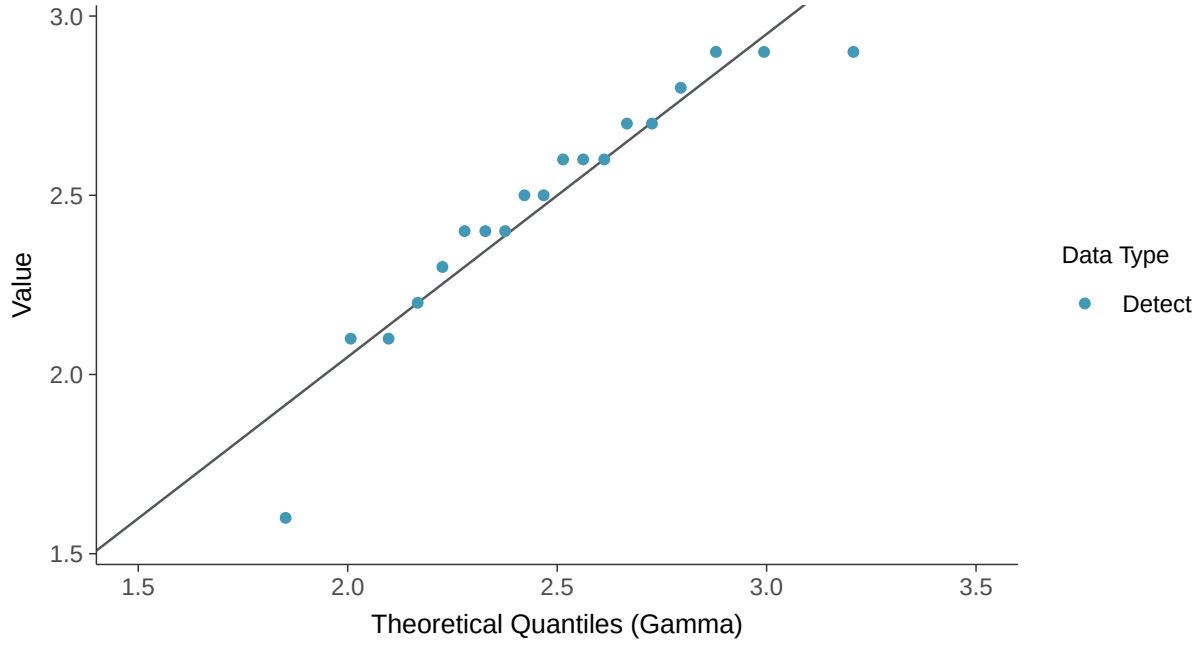
Lognormal Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



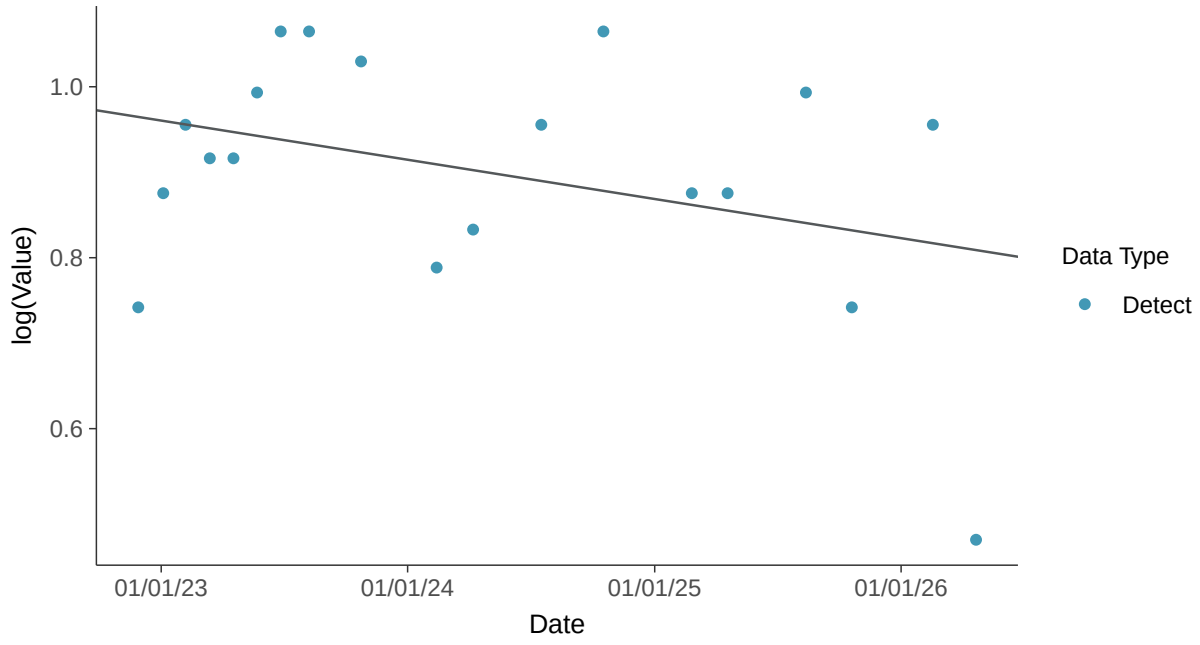
Gamma Q-Q plot

Fluoride (App IV), MW-09 (mg/L)



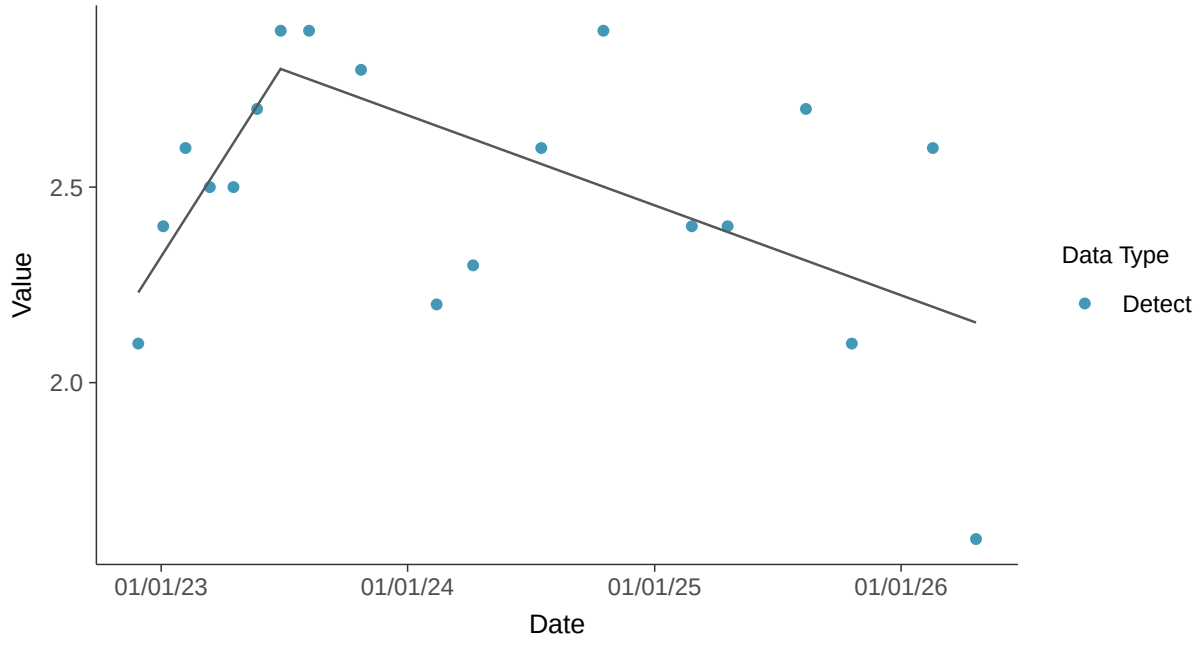
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-09 (mg/L)



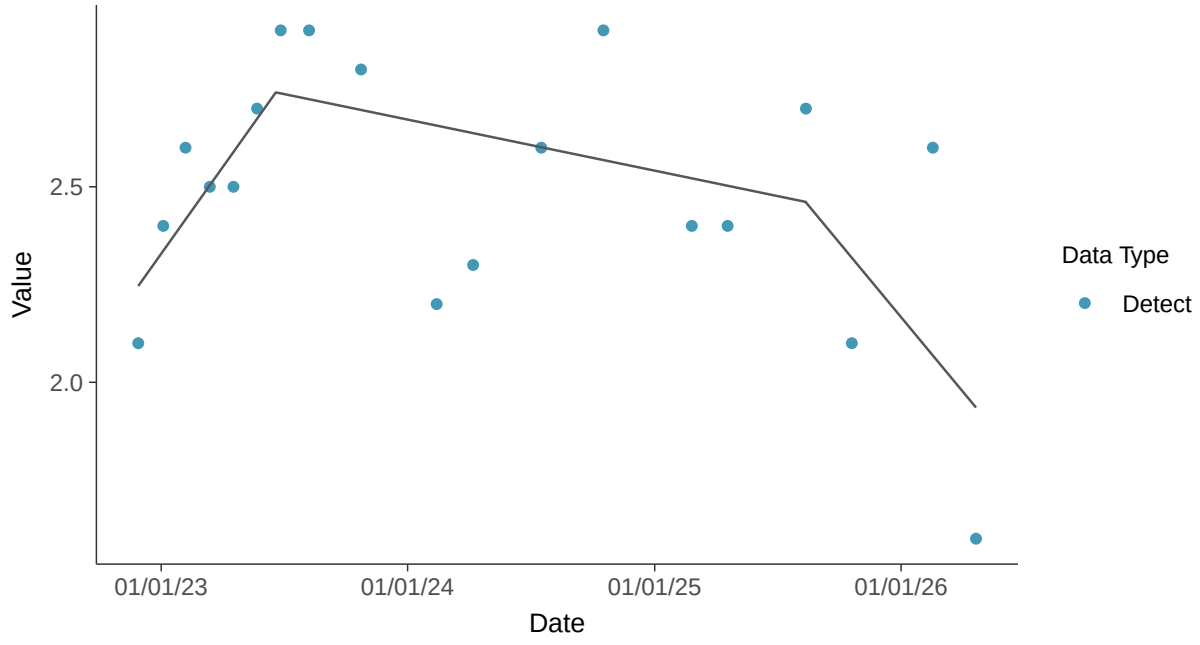
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-09 (mg/L)



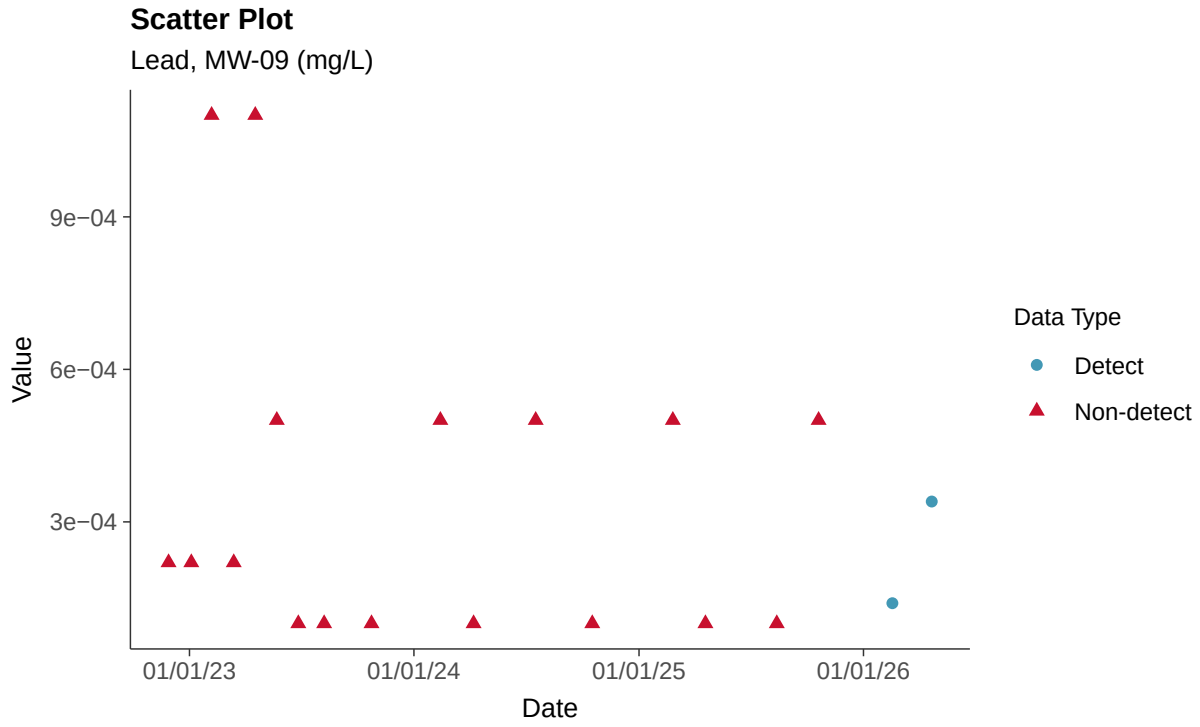
Trend Regression: Piecewise Linear-Linear-Linear

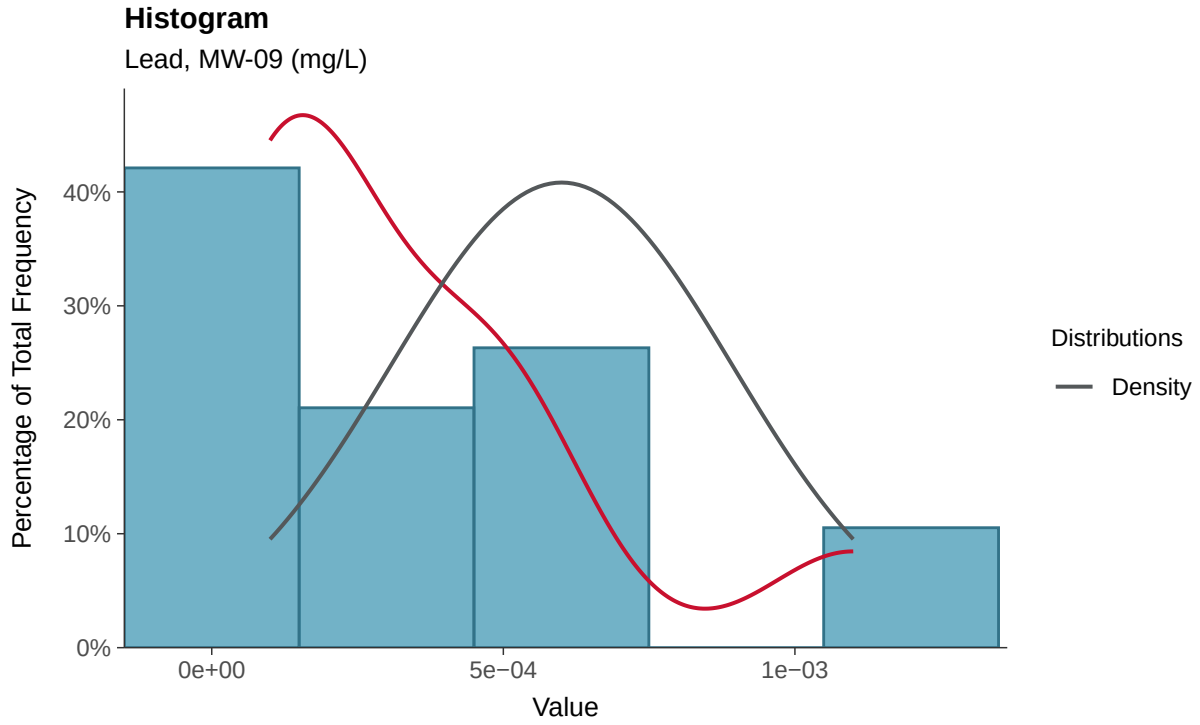
Fluoride (App IV), MW-09 (mg/L)



Appendix IV: Lead, MW-09

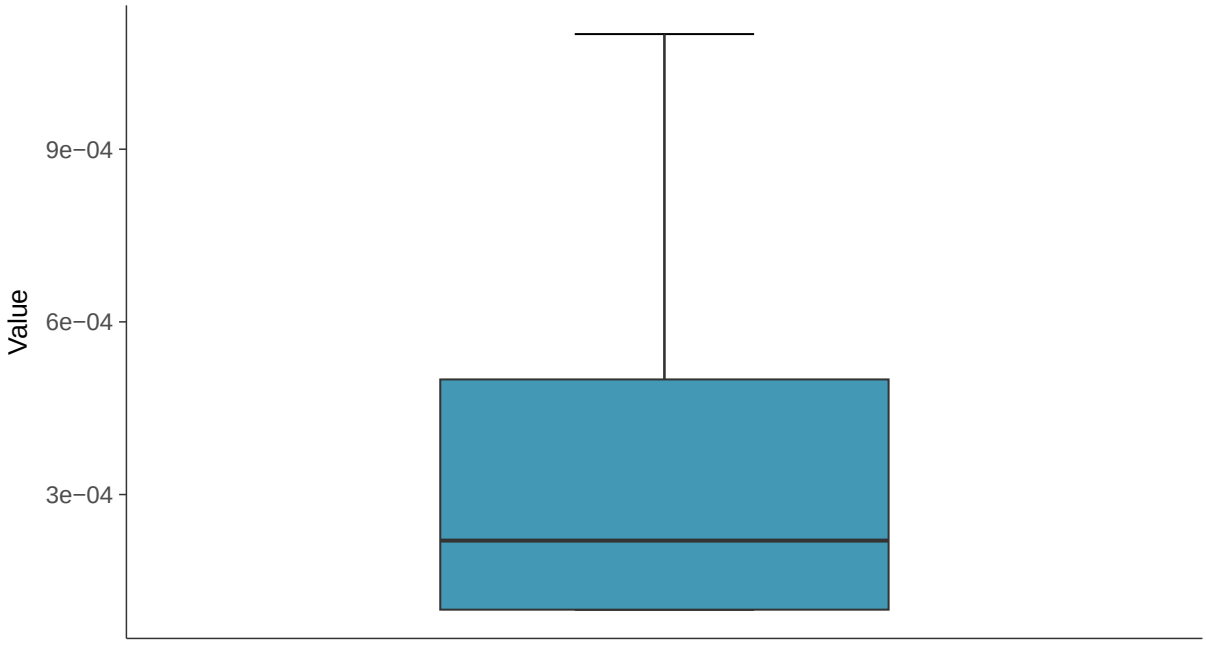
ID: 19_2_4_115





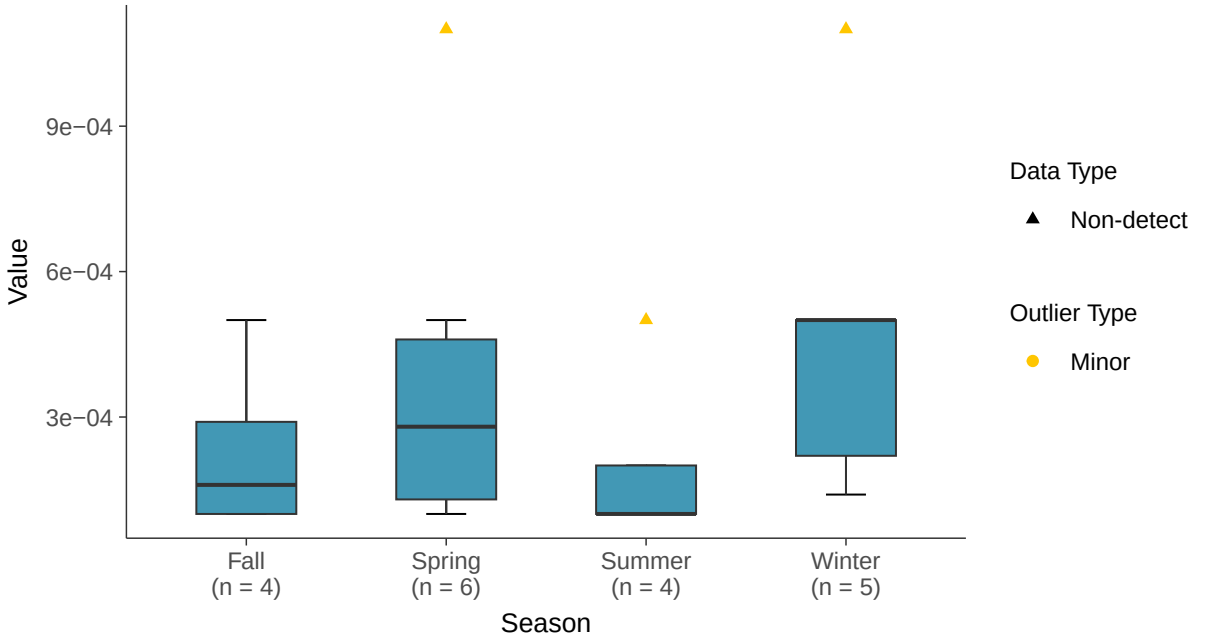
Boxplot

Lead, MW-09 (mg/L)



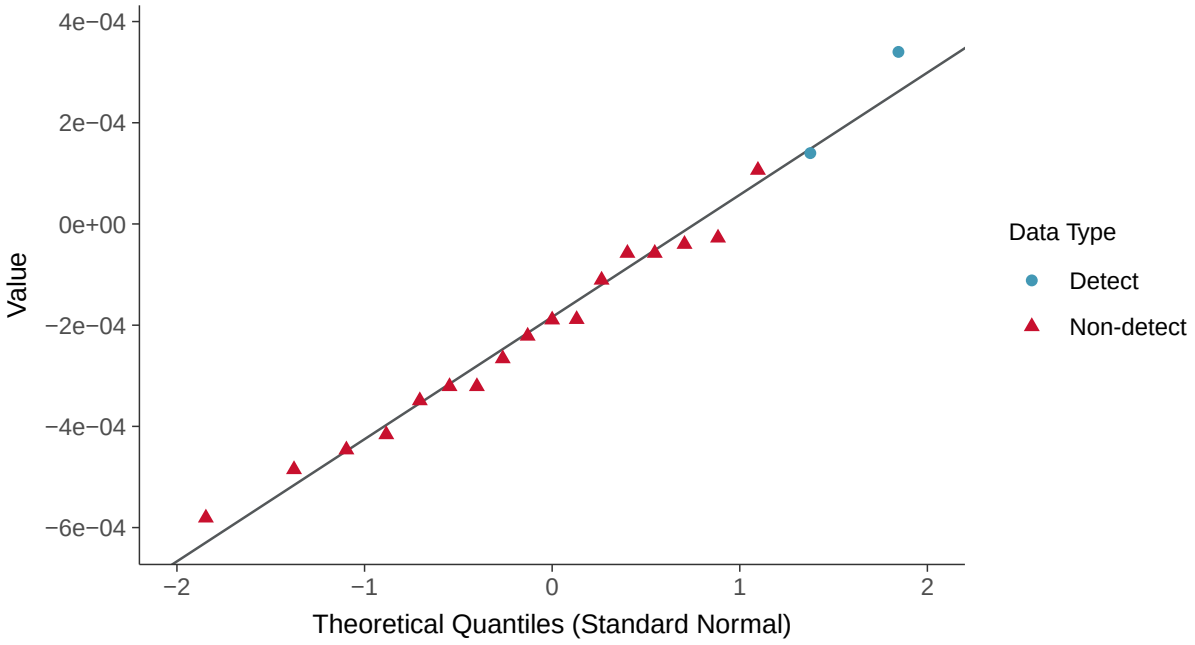
Boxplot by Season

Lead, MW-09 (mg/L)



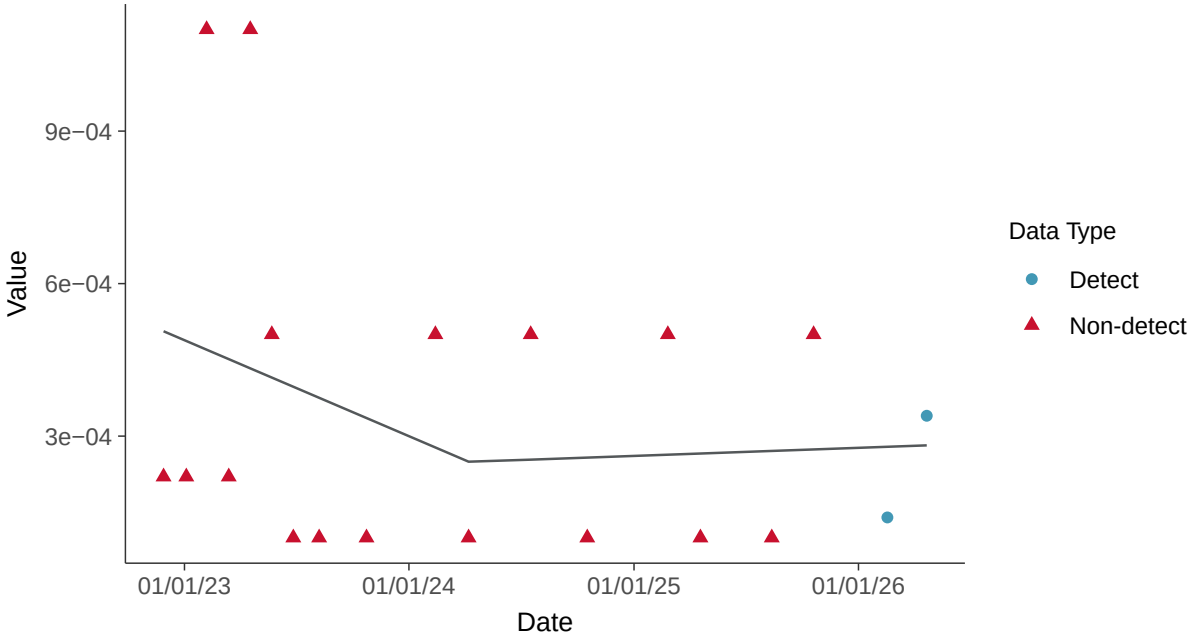
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-09 (mg/L)



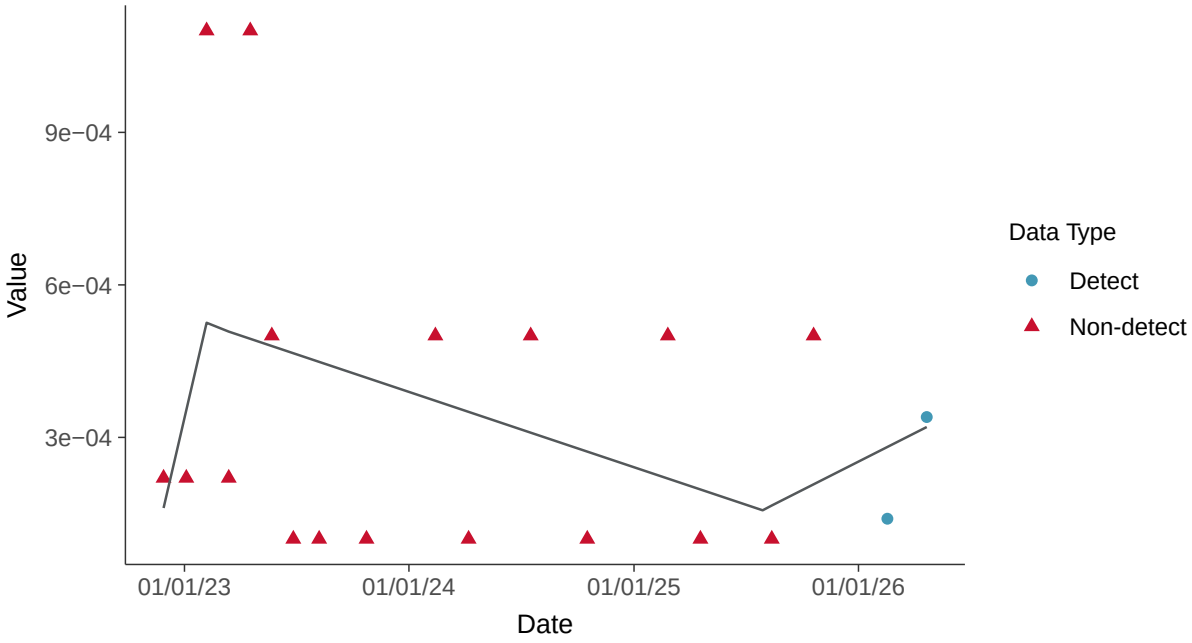
Trend Regression: Piecewise Linear-Linear

Lead, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-09 (mg/L)

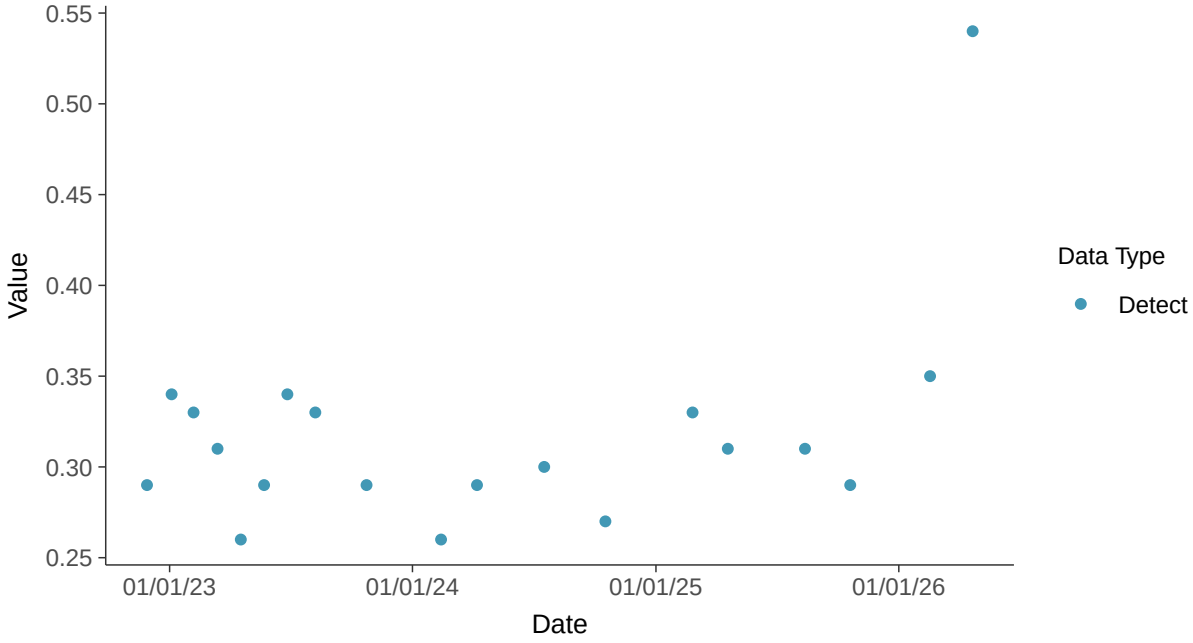


Appendix IV: Lithium, MW-09

ID: 19_2_4_116

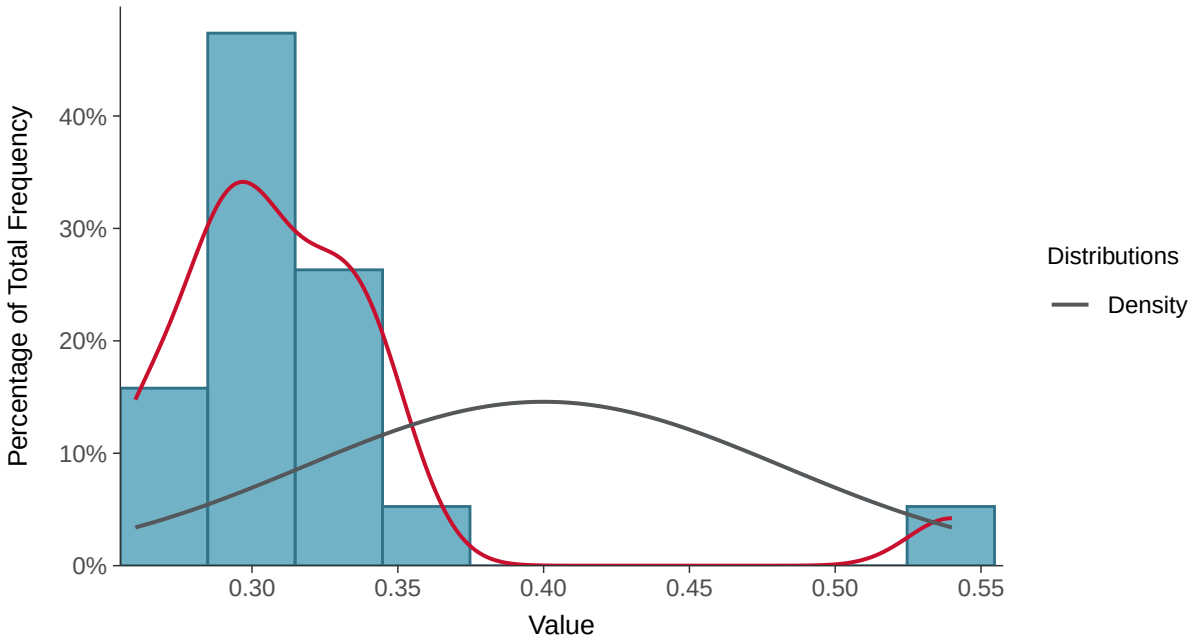
Scatter Plot

Lithium, MW-09 (mg/L)



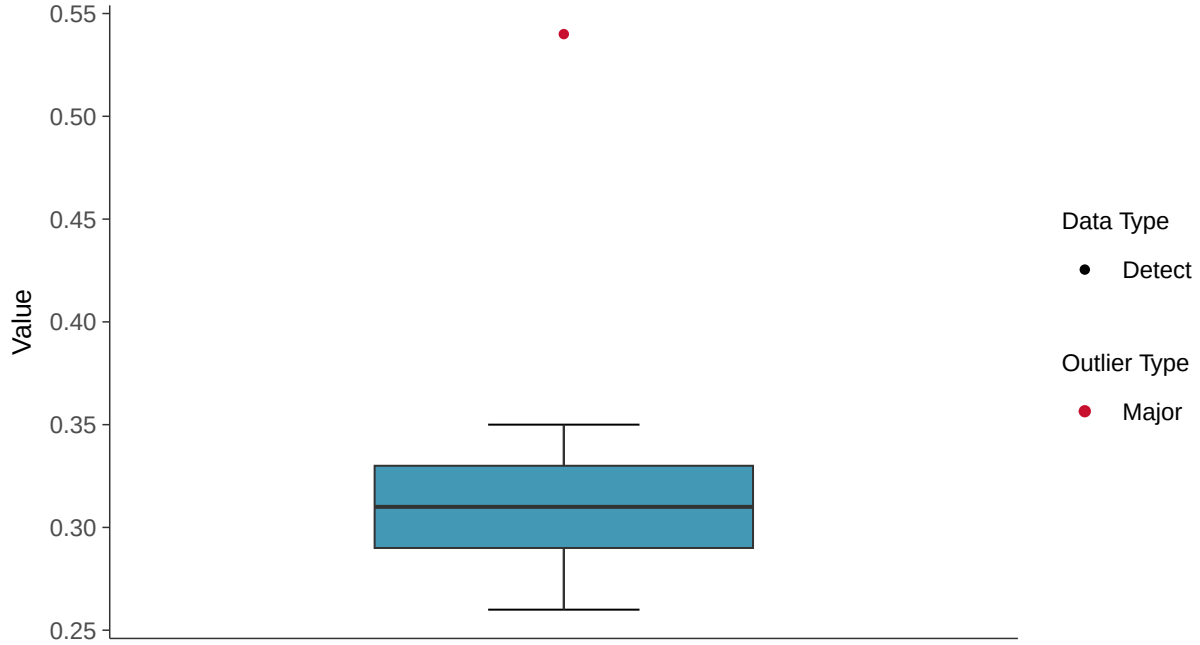
Histogram

Lithium, MW-09 (mg/L)



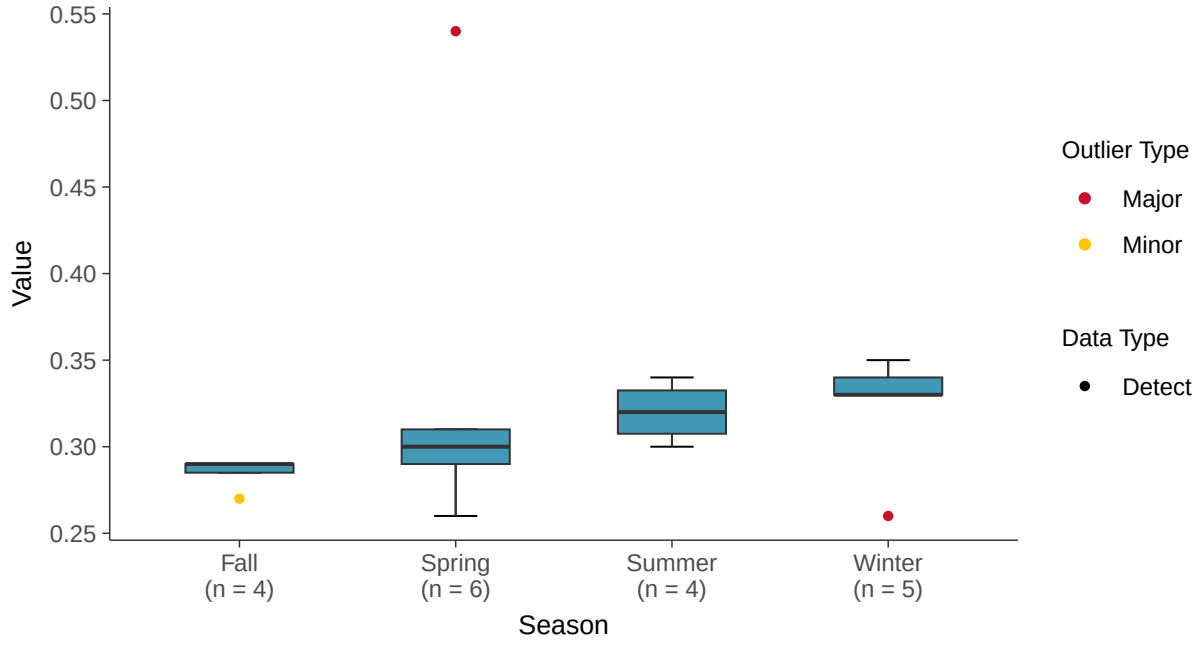
Boxplot

Lithium, MW-09 (mg/L)



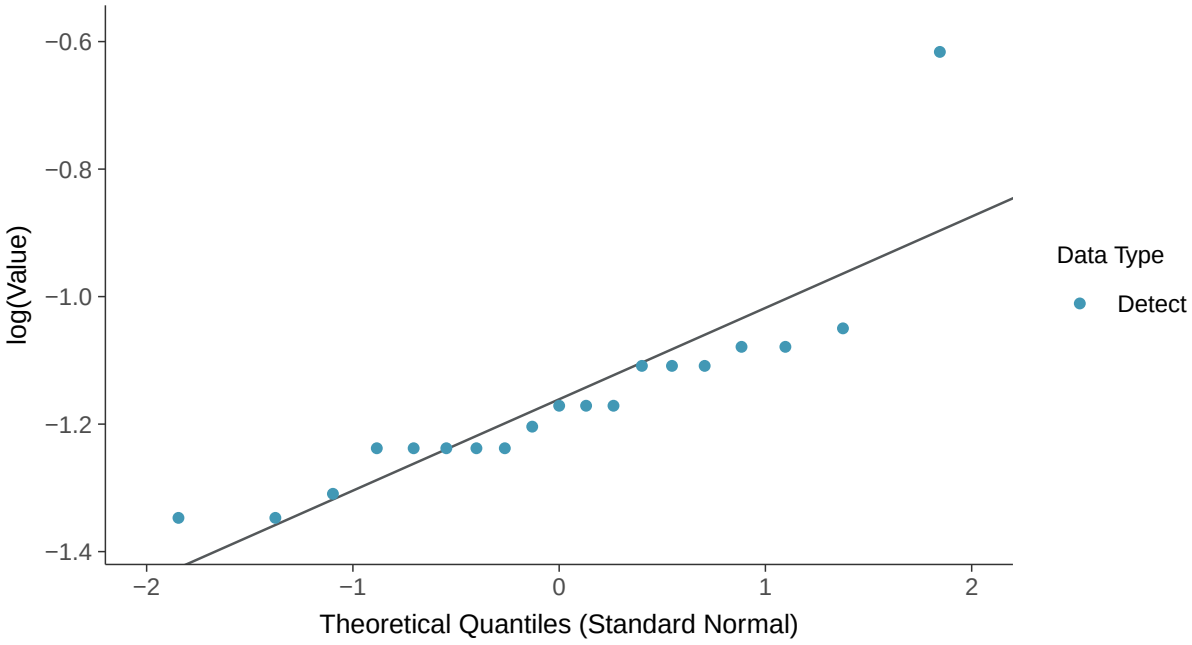
Boxplot by Season

Lithium, MW-09 (mg/L)



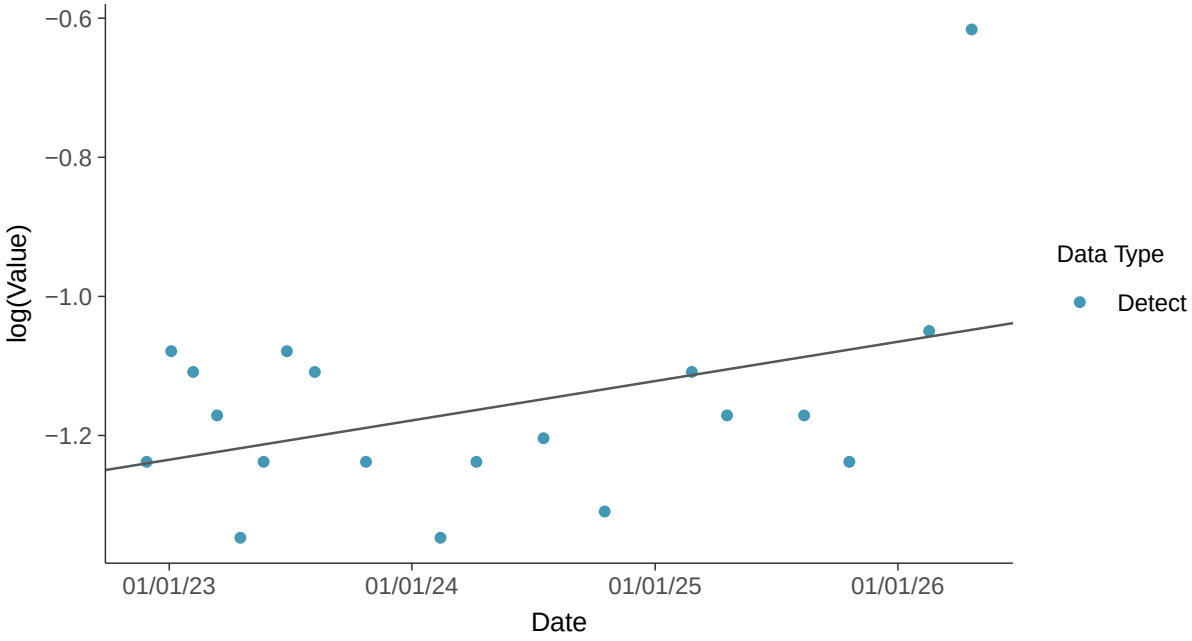
Lognormal Q-Q plot

Lithium, MW-09 (mg/L)



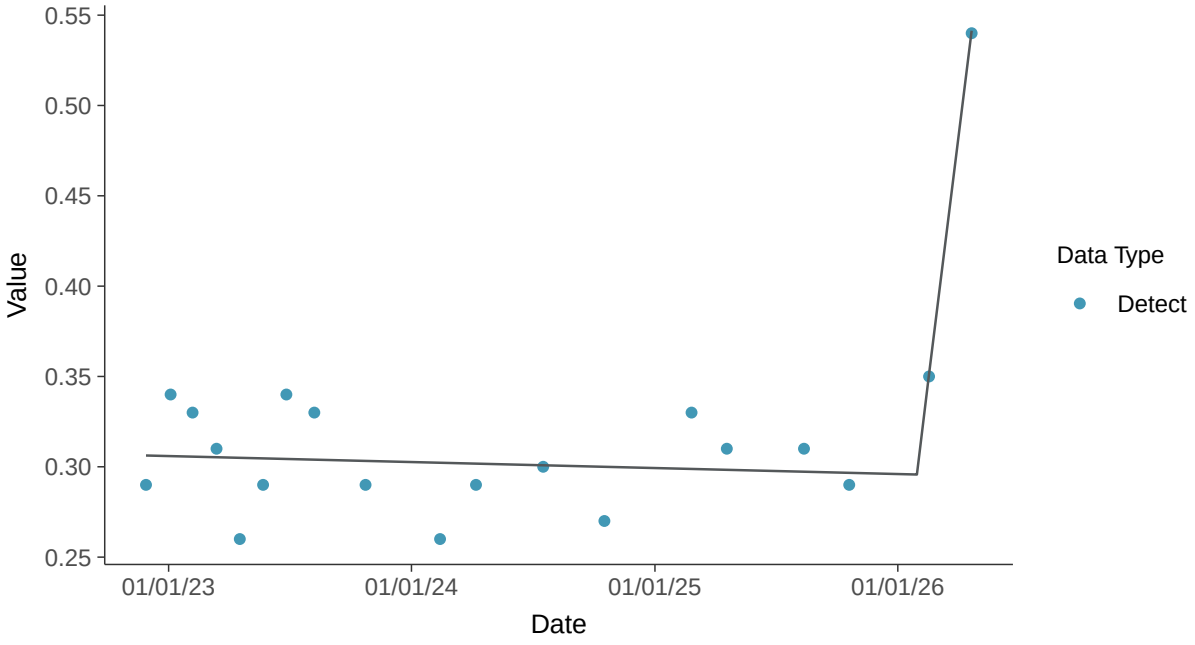
Trend Regression: Lognormal MLE

Lithium, MW-09 (mg/L)



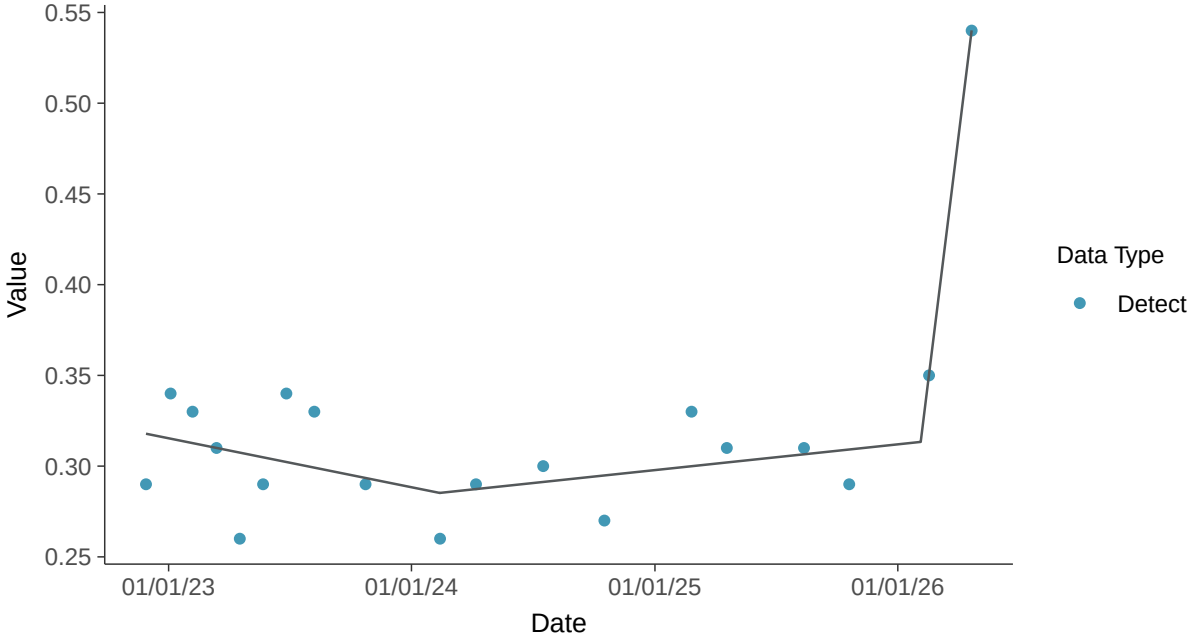
Trend Regression: Piecewise Linear-Linear

Lithium, MW-09 (mg/L)



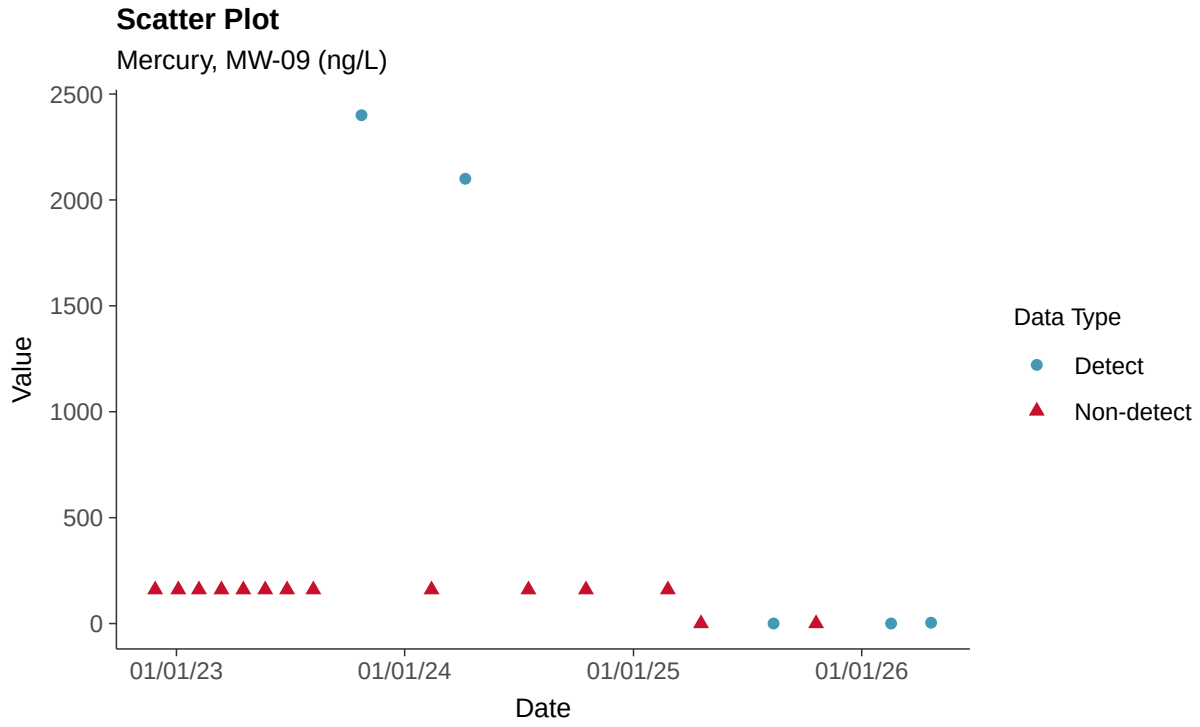
Trend Regression: Piecewise Linear-Linear-Linear

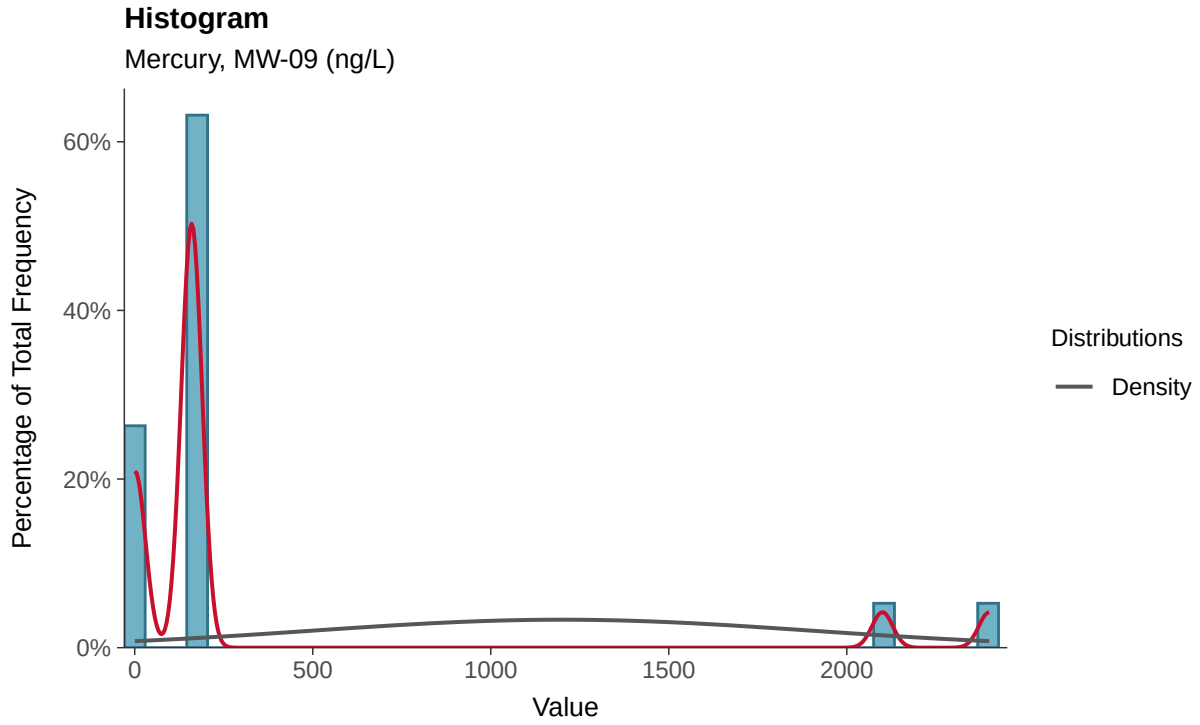
Lithium, MW-09 (mg/L)



Appendix IV: Mercury, MW-09

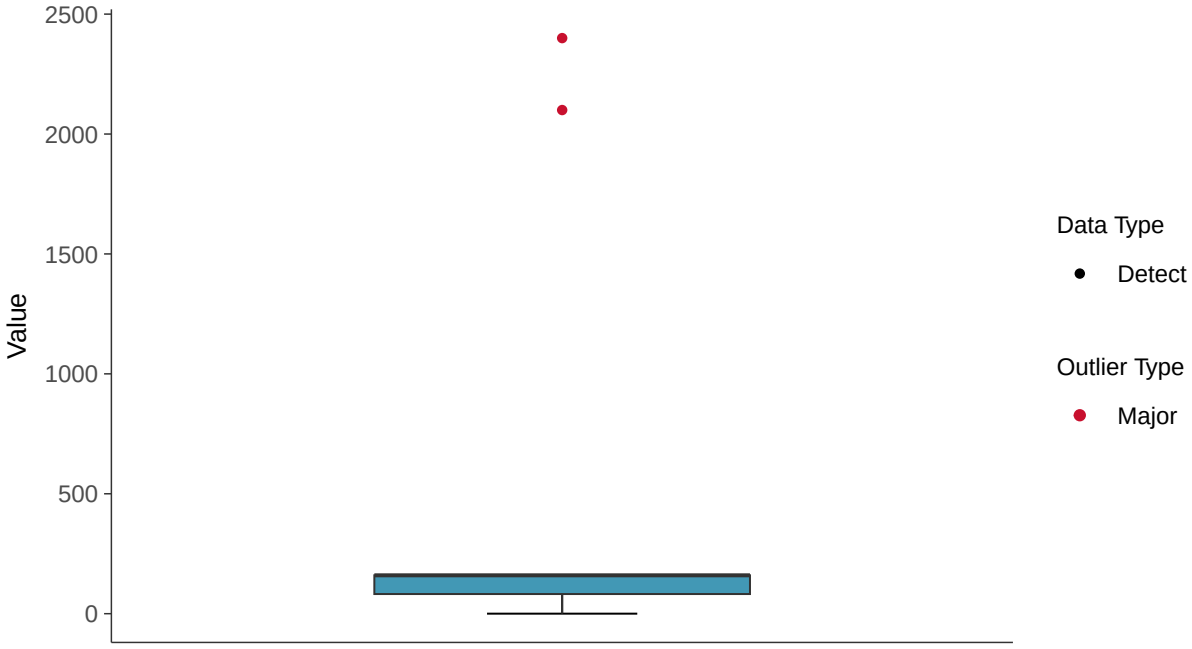
ID: 19_2_4_117





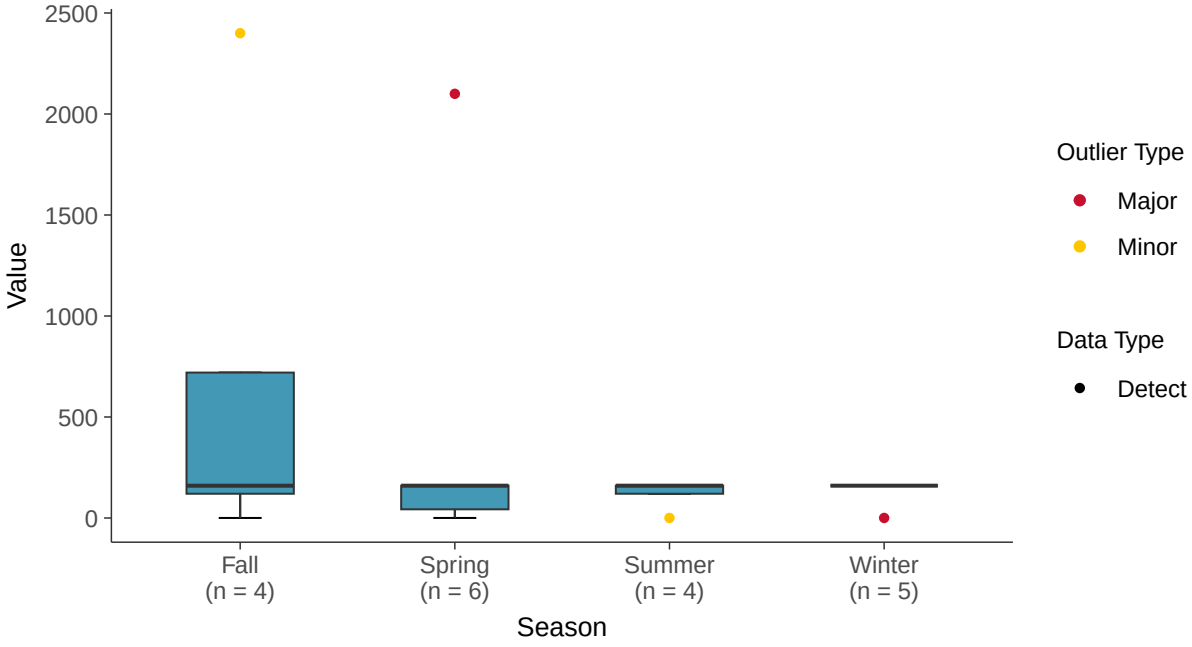
Boxplot

Mercury, MW-09 (ng/L)



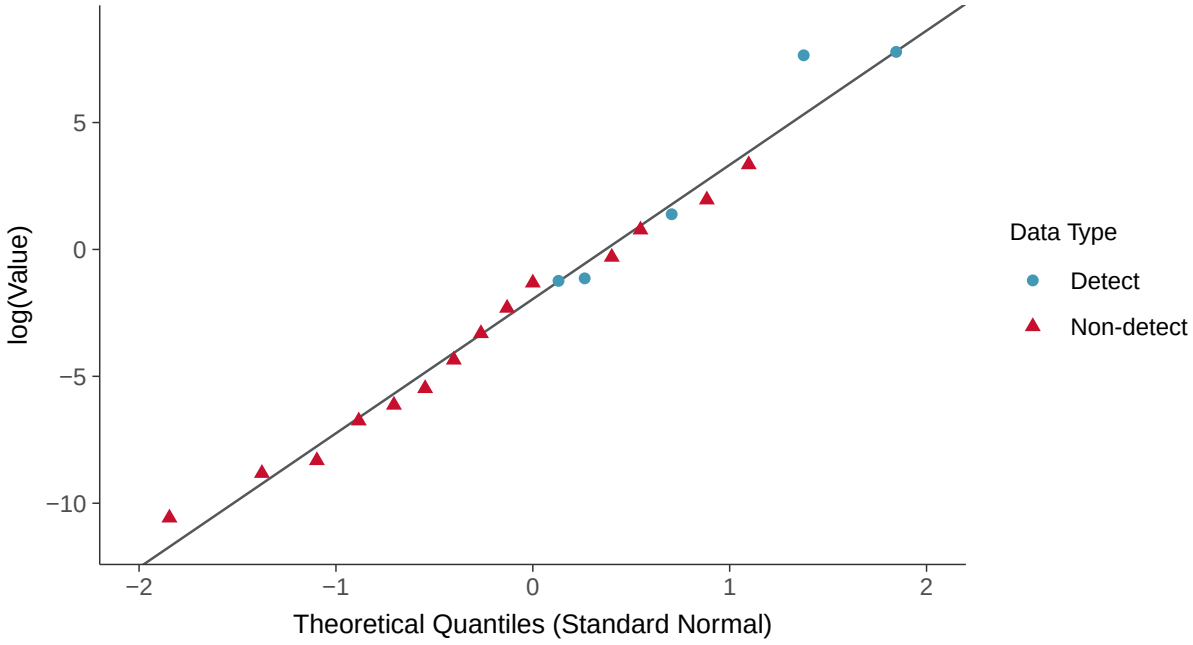
Boxplot by Season

Mercury, MW-09 (ng/L)



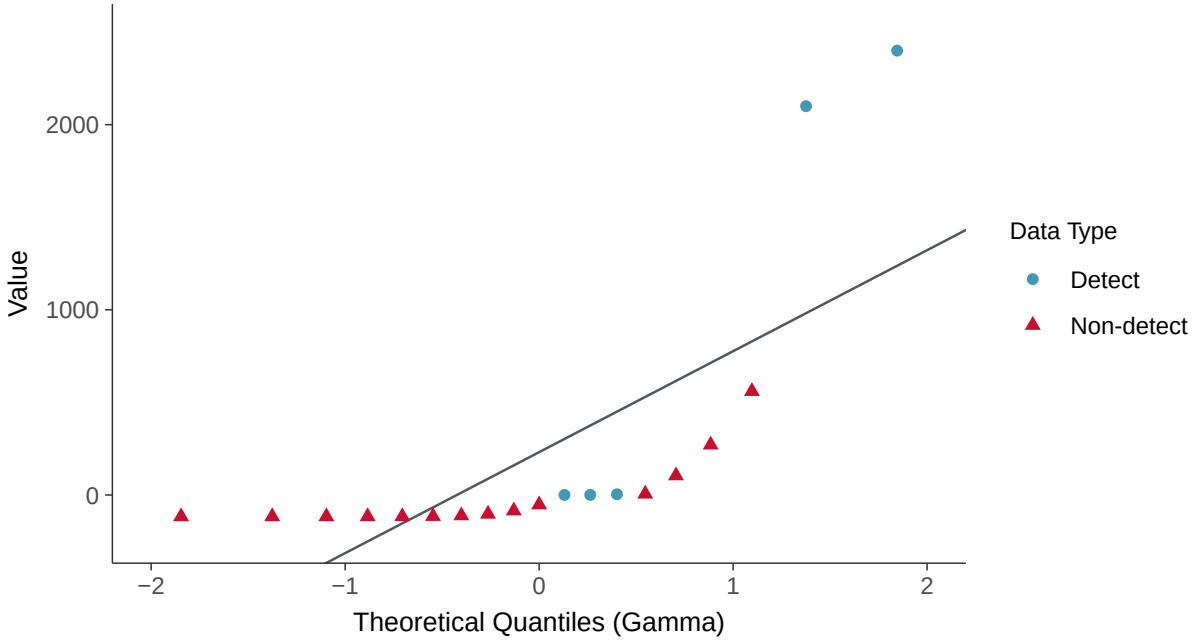
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-09 (ng/L)



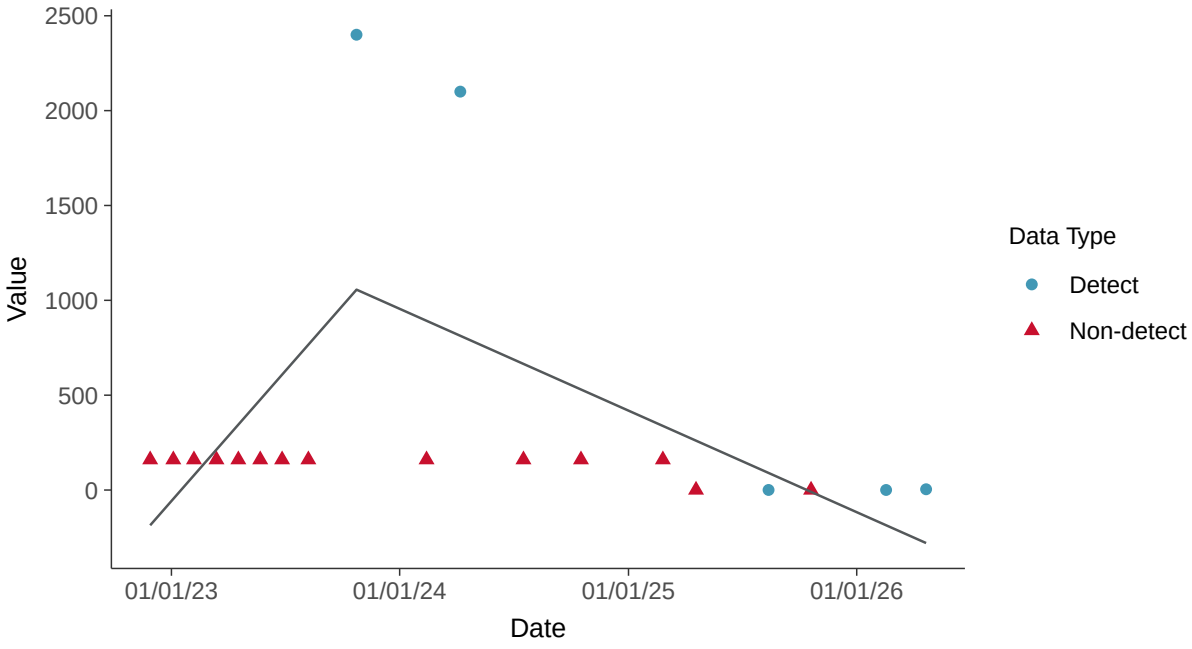
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-09 (ng/L)



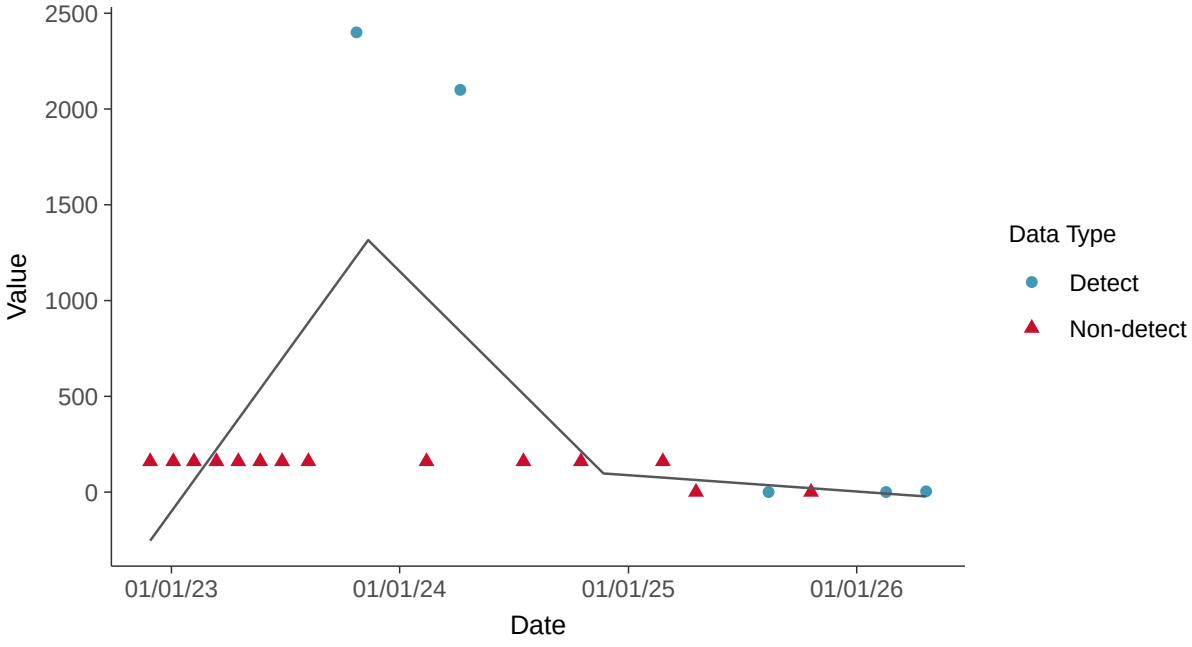
Trend Regression: Piecewise Linear-Linear

Mercury, MW-09 (ng/L)



Trend Regression: Piecewise Linear-Linear-Linear

Mercury, MW-09 (ng/L)

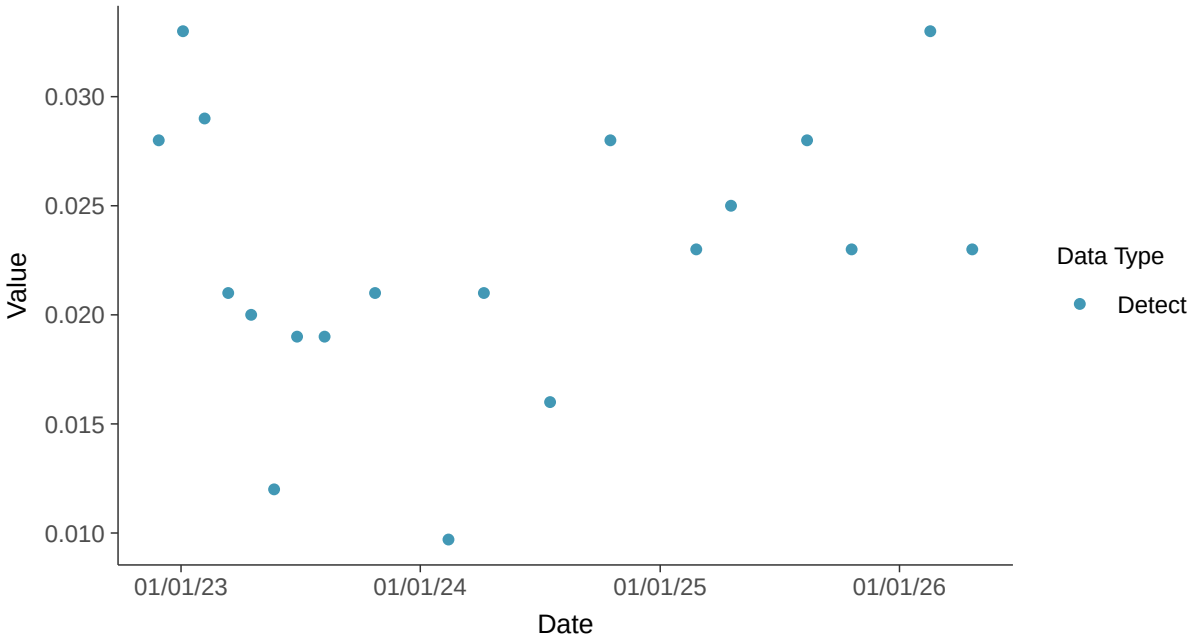


Appendix IV: Molybdenum, MW-09

ID: 19_2_4_118

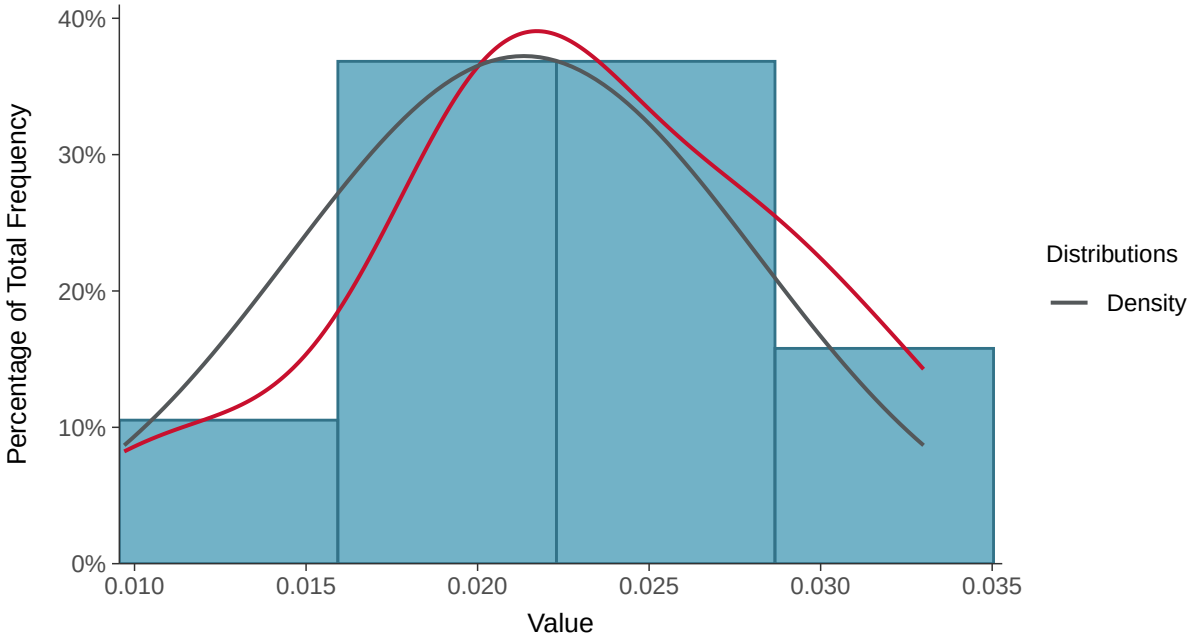
Scatter Plot

Molybdenum, MW-09 (mg/L)



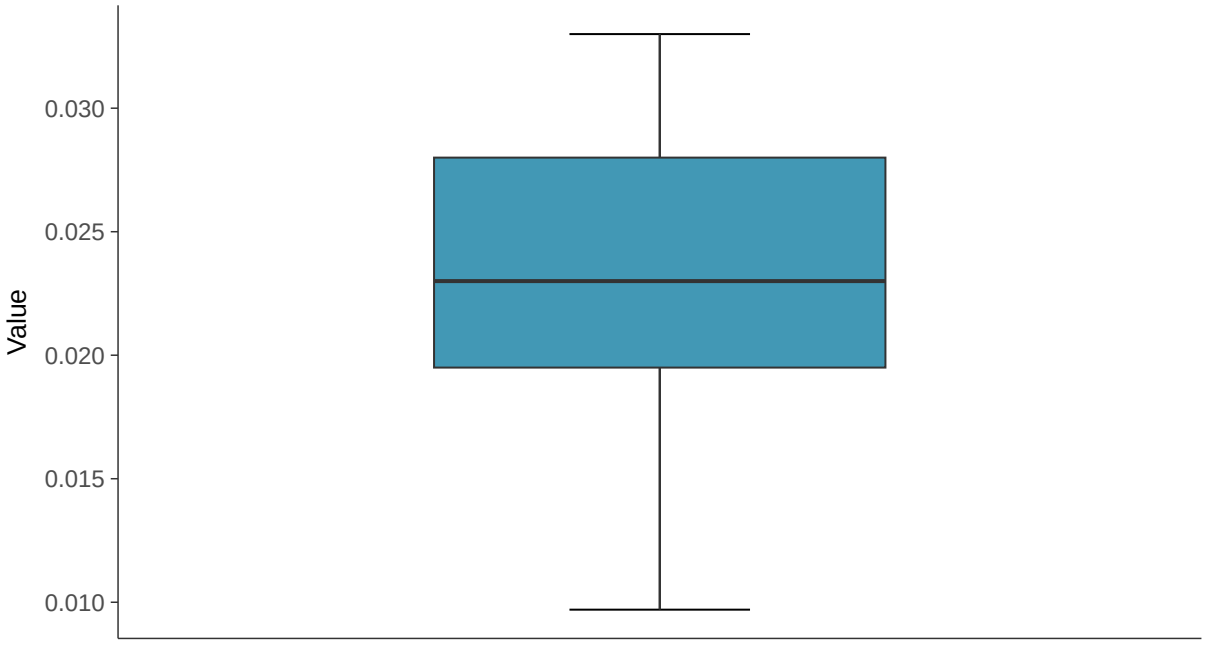
Histogram

Molybdenum, MW-09 (mg/L)



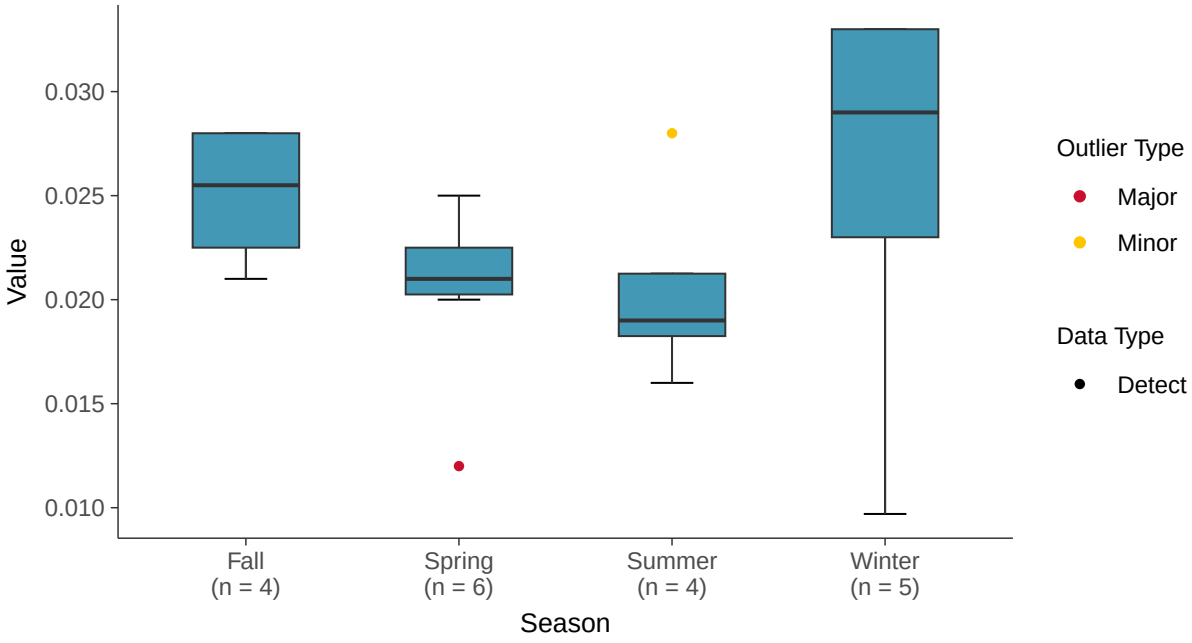
Boxplot

Molybdenum, MW-09 (mg/L)



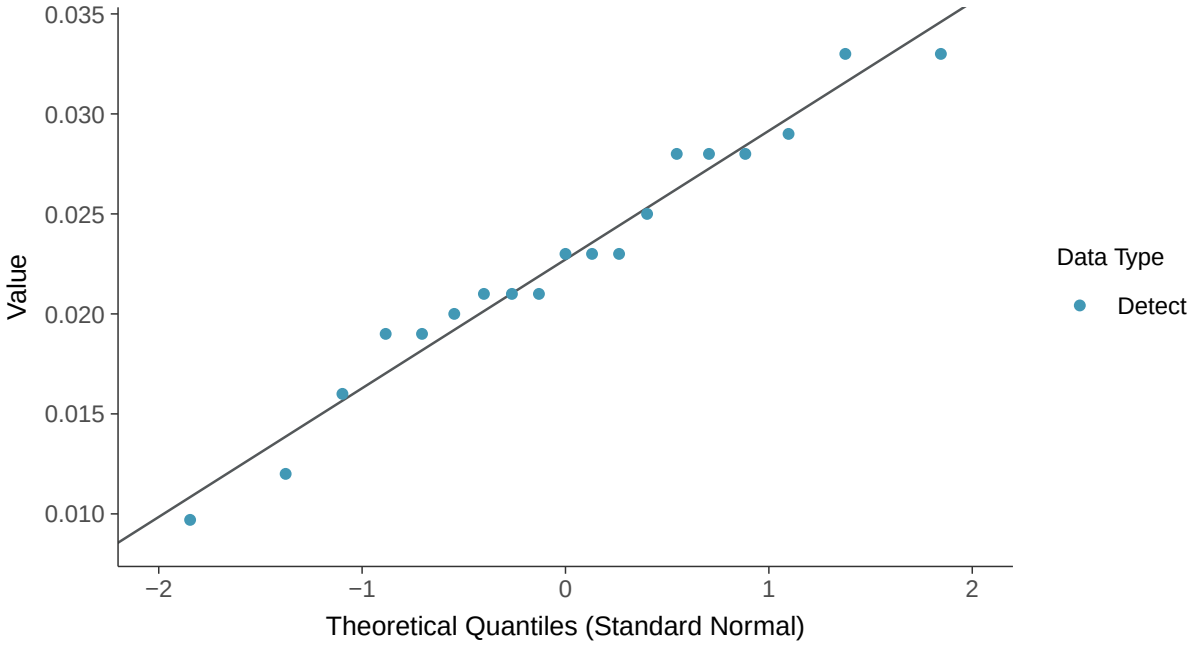
Boxplot by Season

Molybdenum, MW-09 (mg/L)



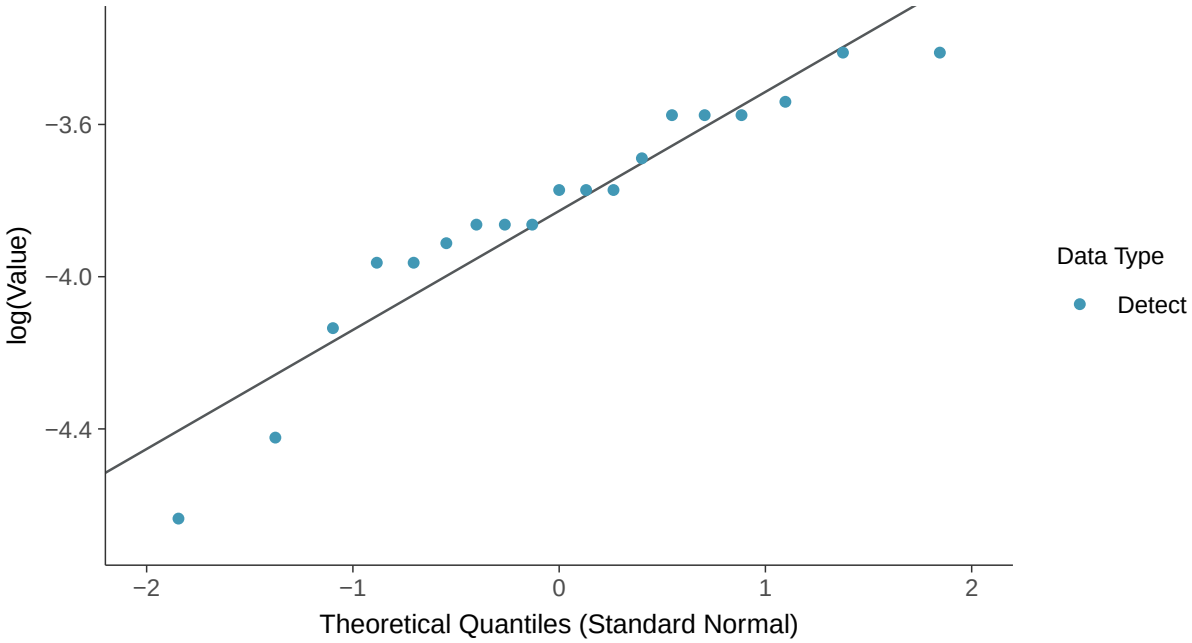
Normal Q-Q plot

Molybdenum, MW-09 (mg/L)



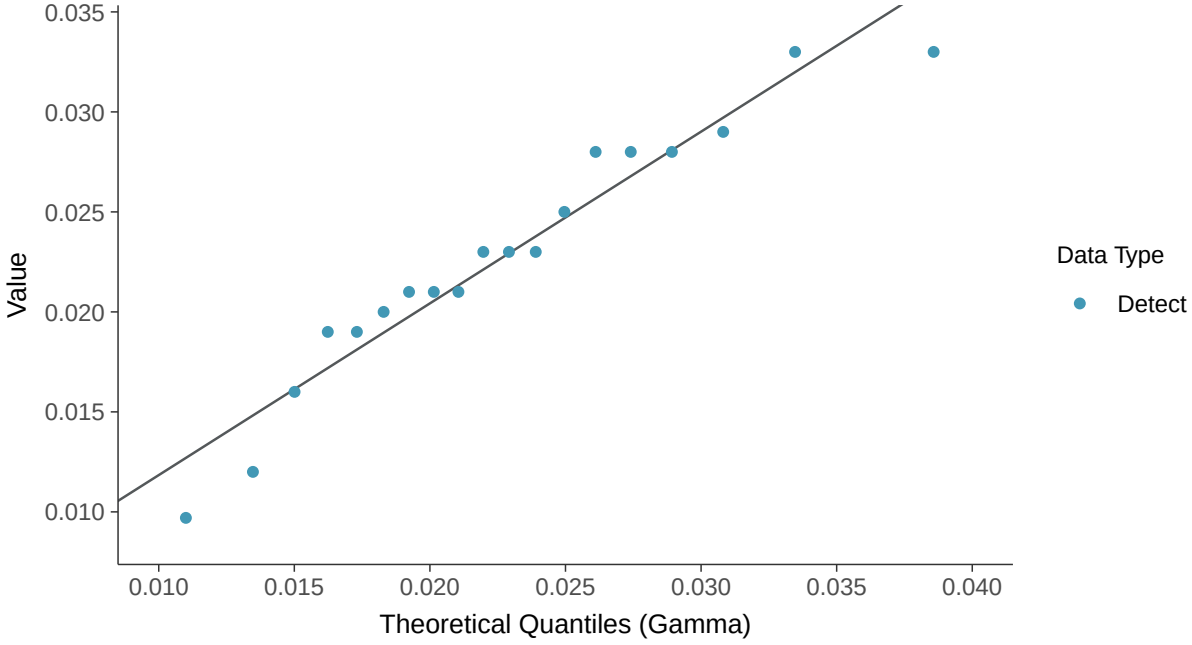
Lognormal Q-Q plot

Molybdenum, MW-09 (mg/L)



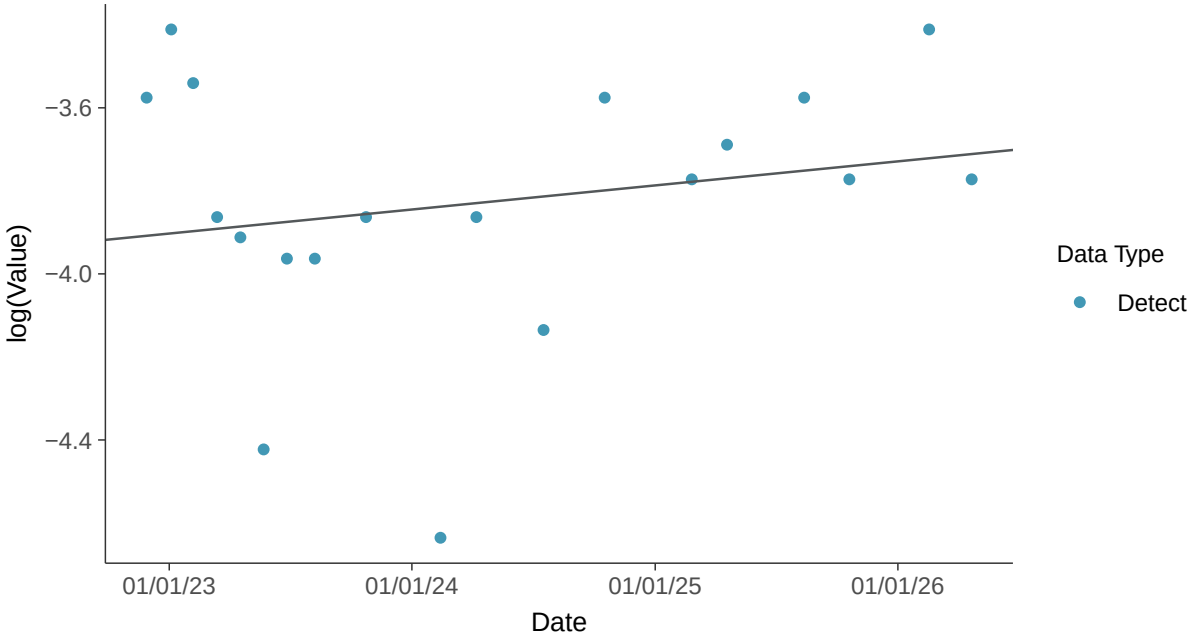
Gamma Q-Q plot

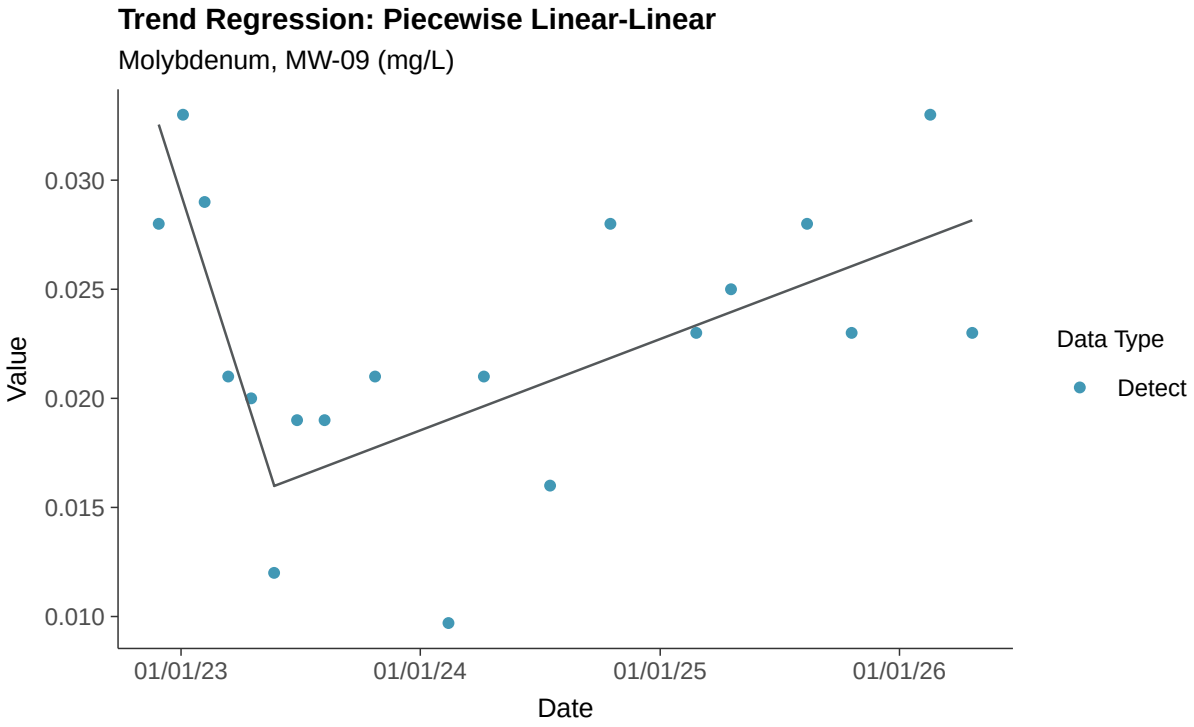
Molybdenum, MW-09 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-09 (mg/L)



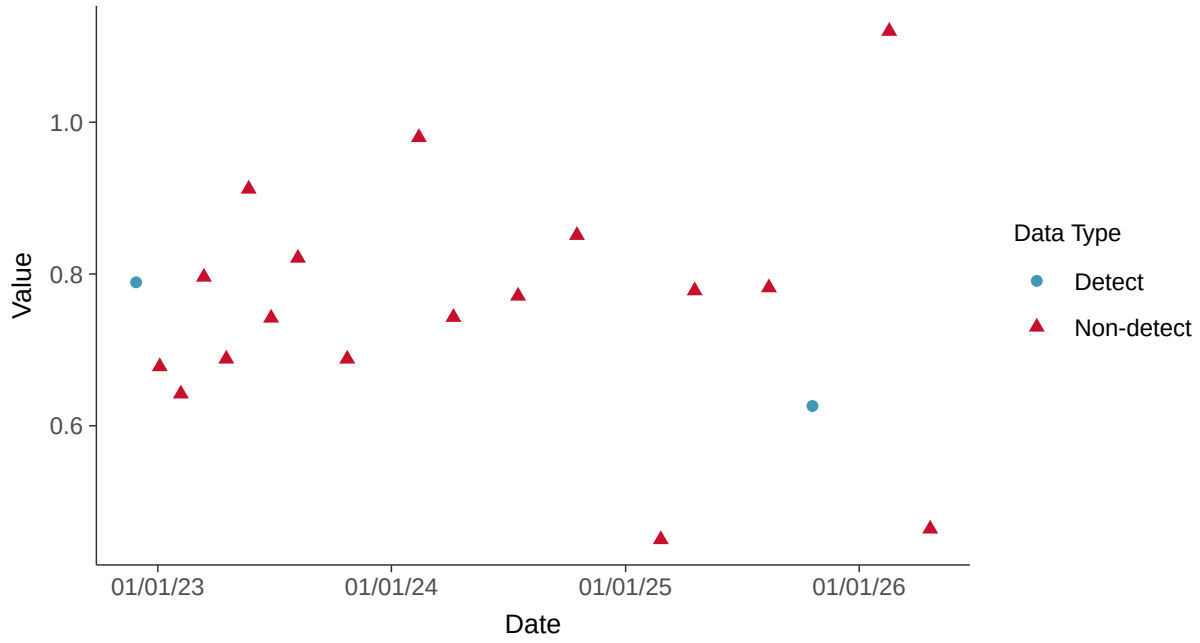

Trend Regression: Piecewise Linear-Linear
Molybdenum, MW-09 (mg/L)
Value
0.030
0.025
0.020
0.015
0.010
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Radium 226 and 228, MW-09

ID: 19_2_4_121

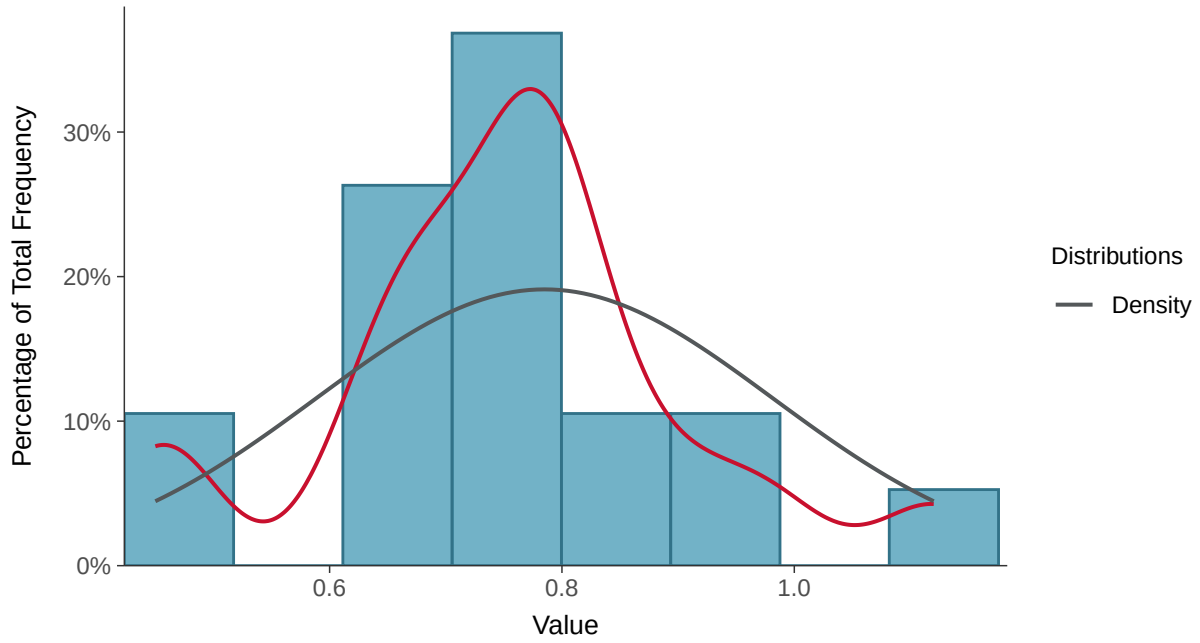
Scatter Plot

Radium 226 and 228, MW-09 (pCi/L)



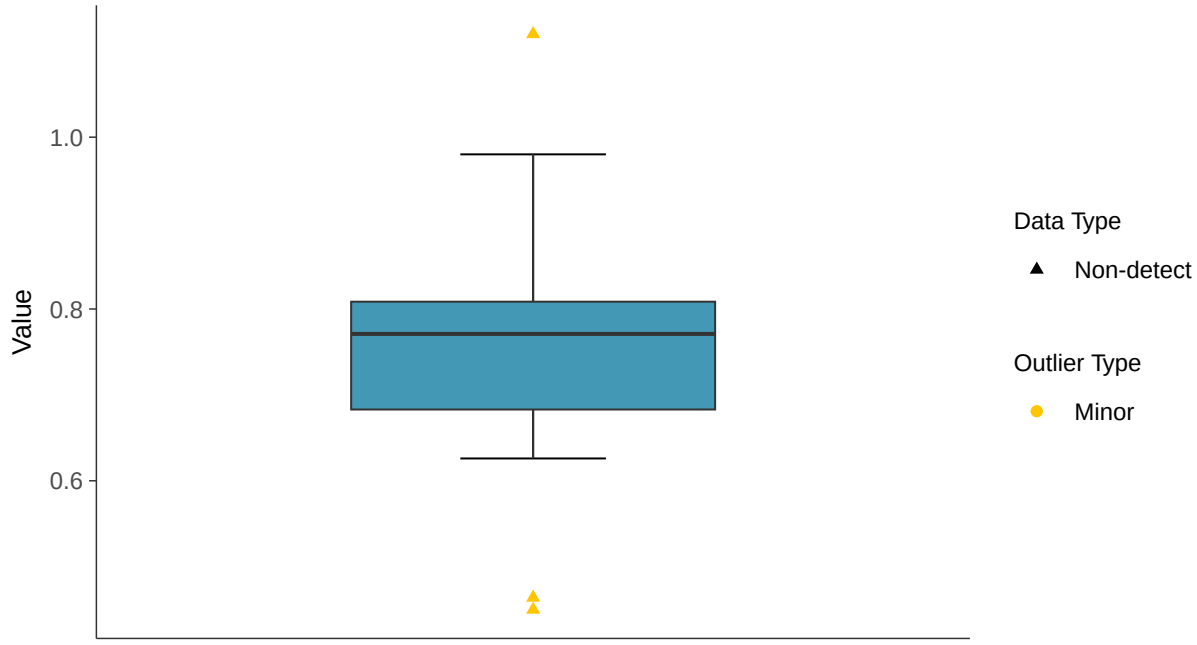
Histogram

Radium 226 and 228, MW-09 (pCi/L)



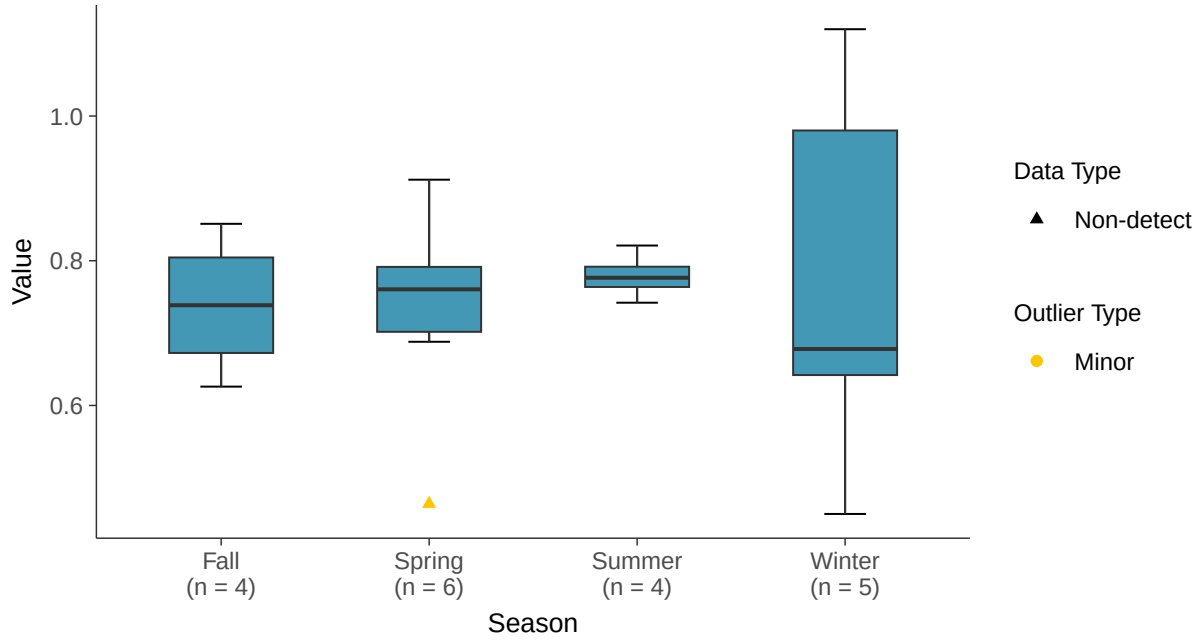
Boxplot

Radium 226 and 228, MW-09 (pCi/L)



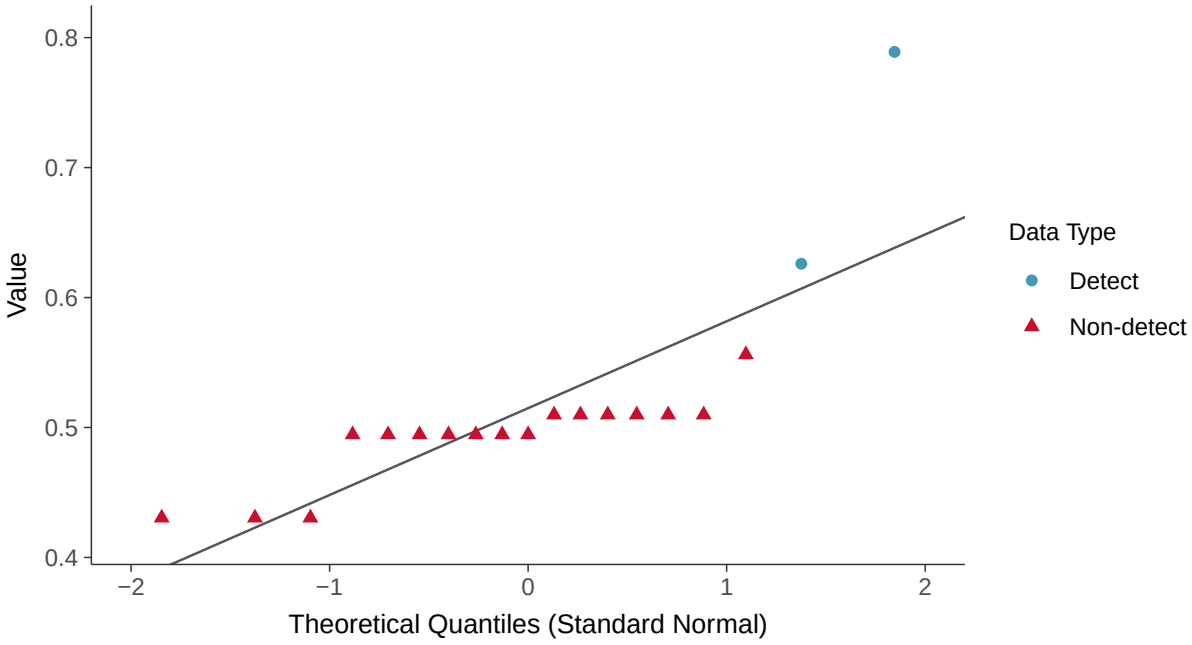
Boxplot by Season

Radium 226 and 228, MW-09 (pCi/L)



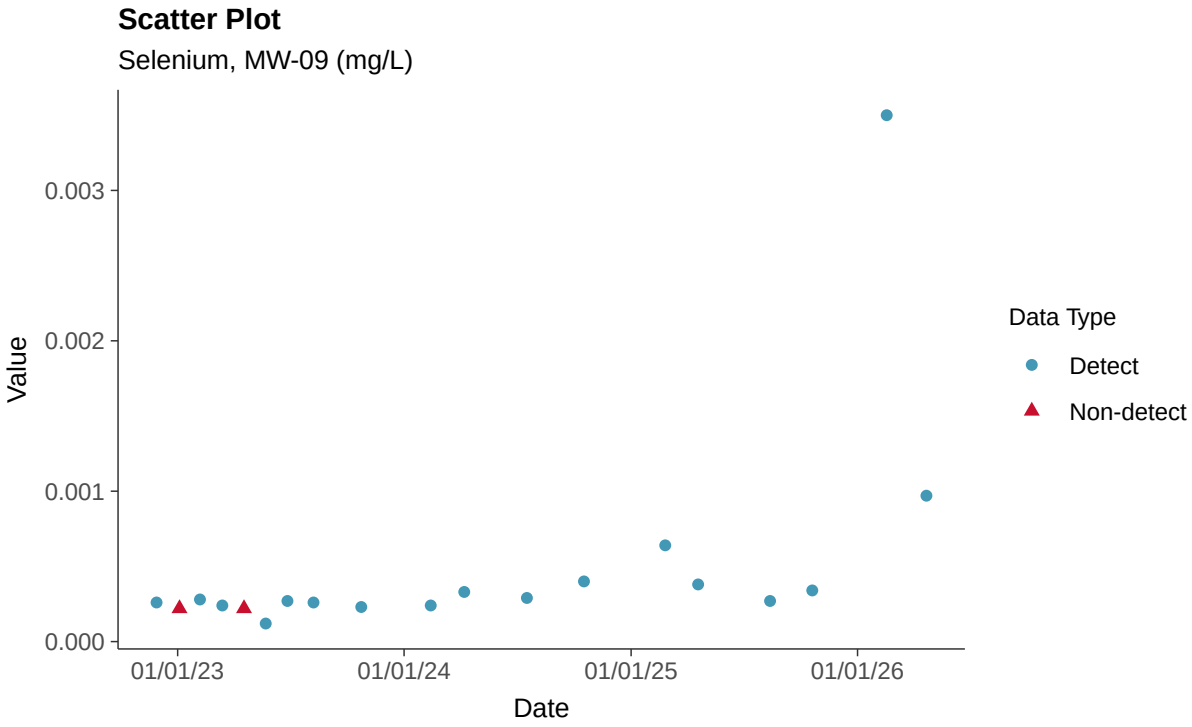
Normal Q-Q plot using ROS Imputed Estimates

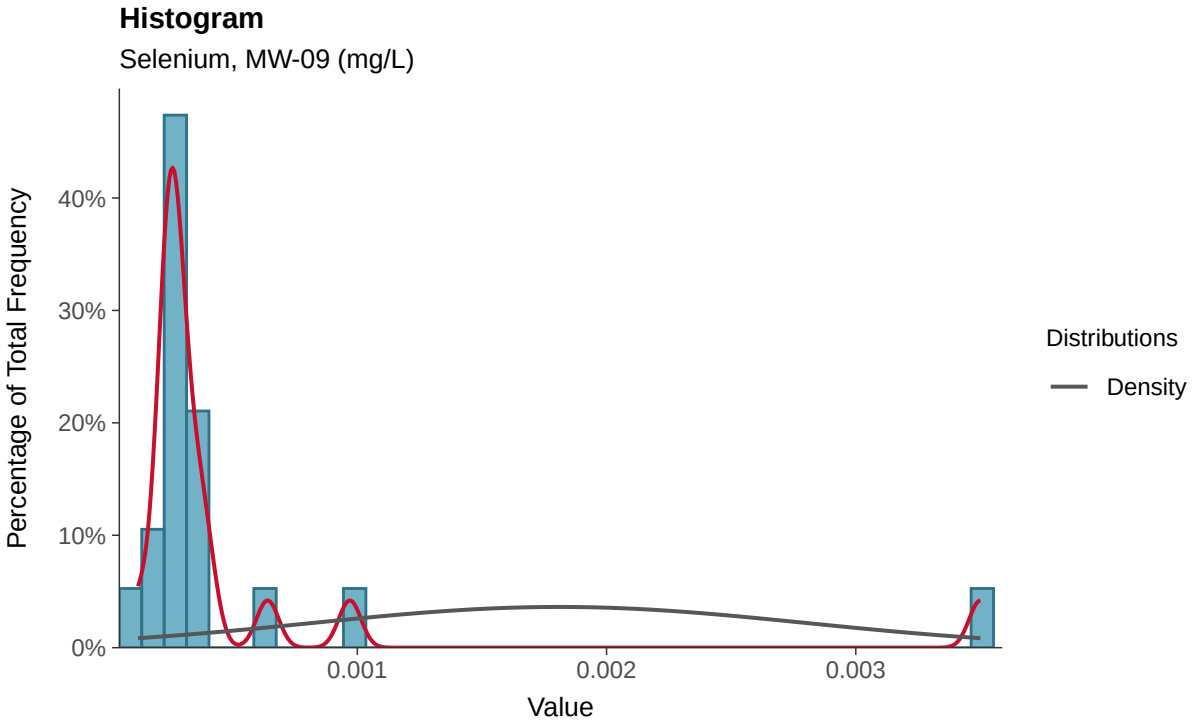
Radium 226 and 228, MW-09 (pCi/L)



Appendix IV: Selenium, MW-09

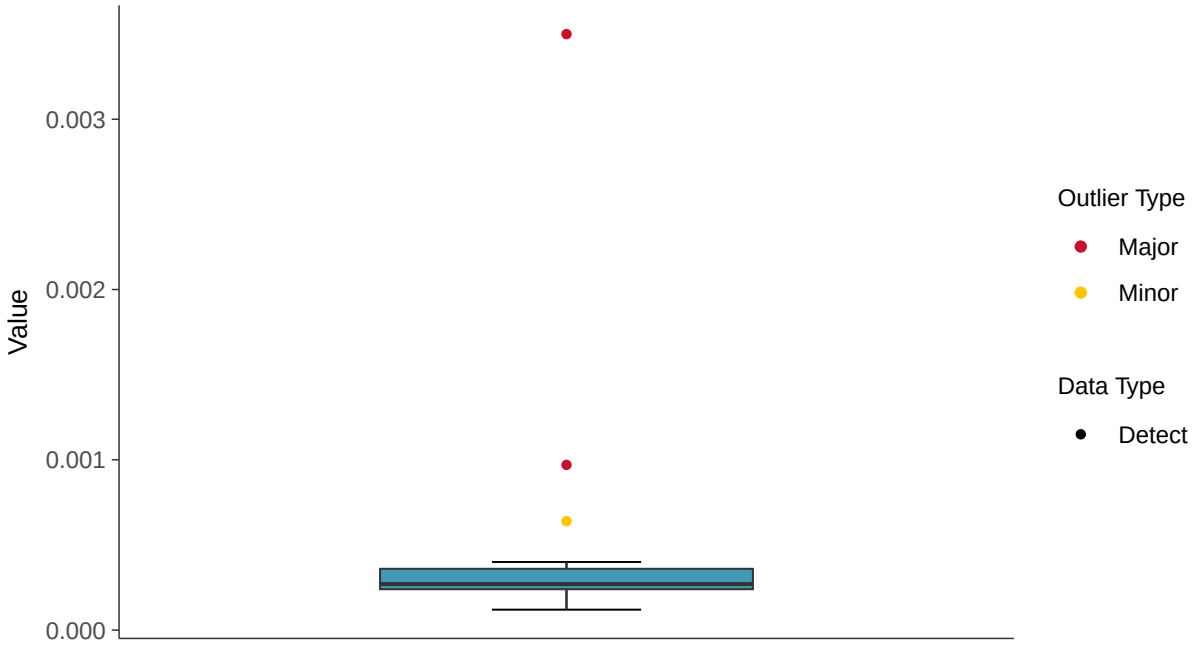
ID: 19_2_4_122





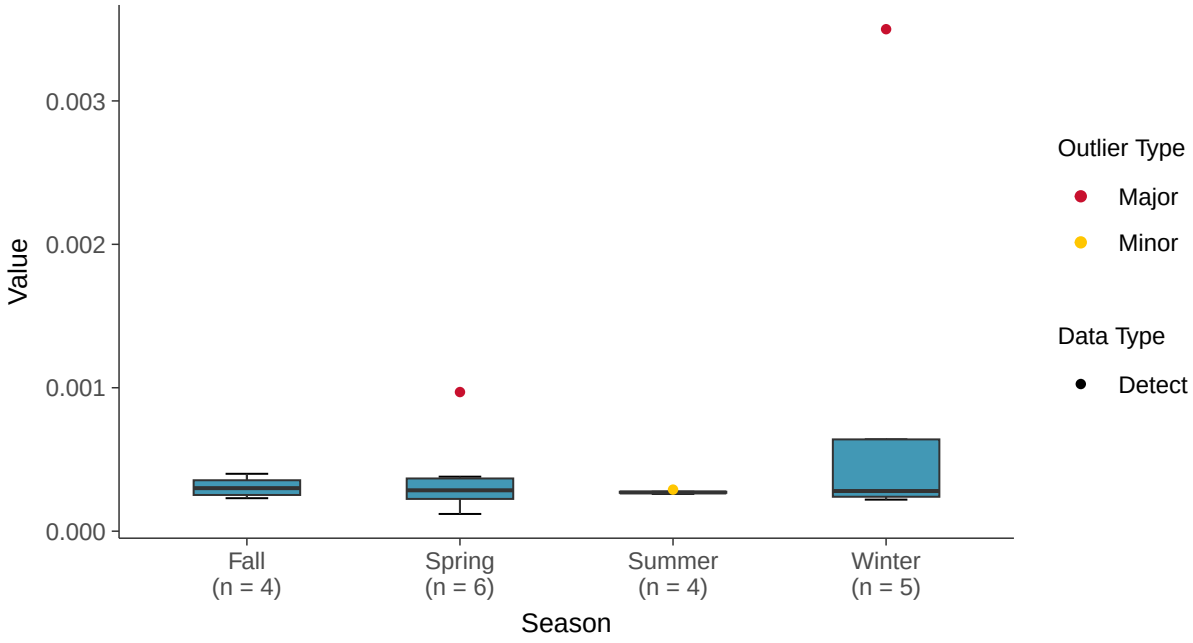
Boxplot

Selenium, MW-09 (mg/L)



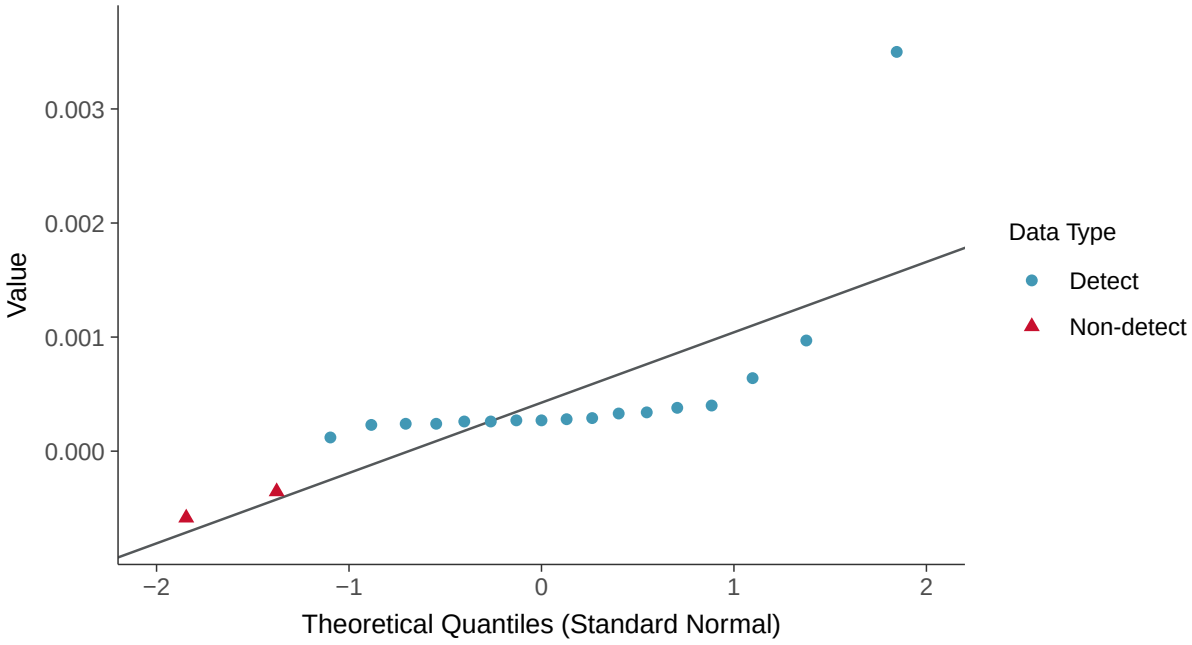
Boxplot by Season

Selenium, MW-09 (mg/L)



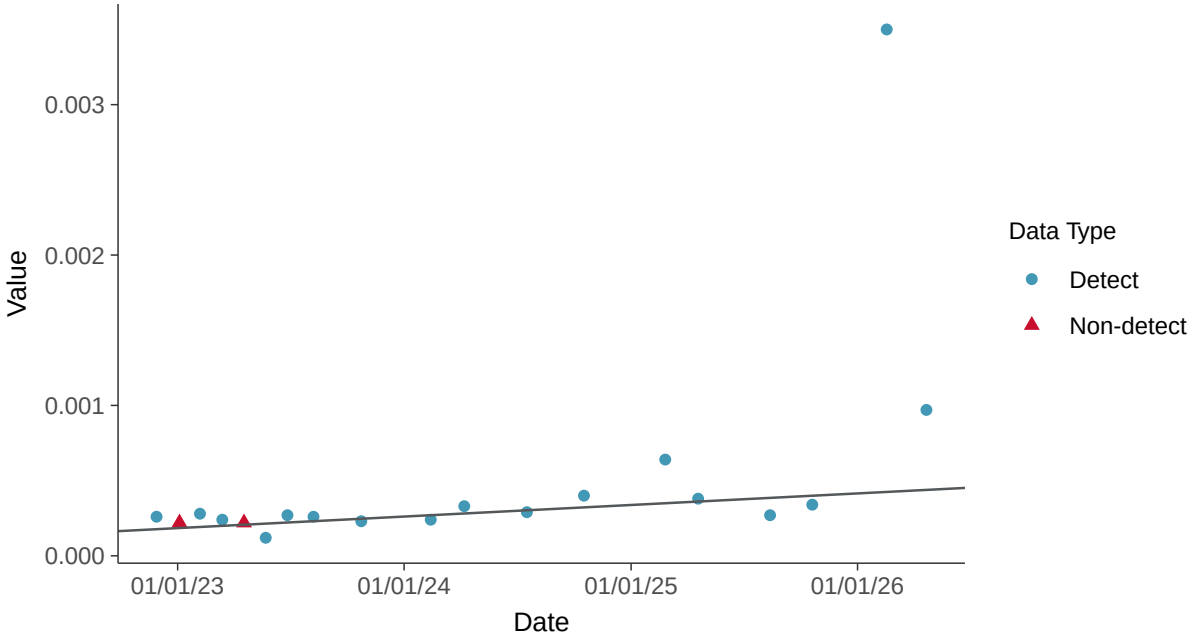
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-09 (mg/L)



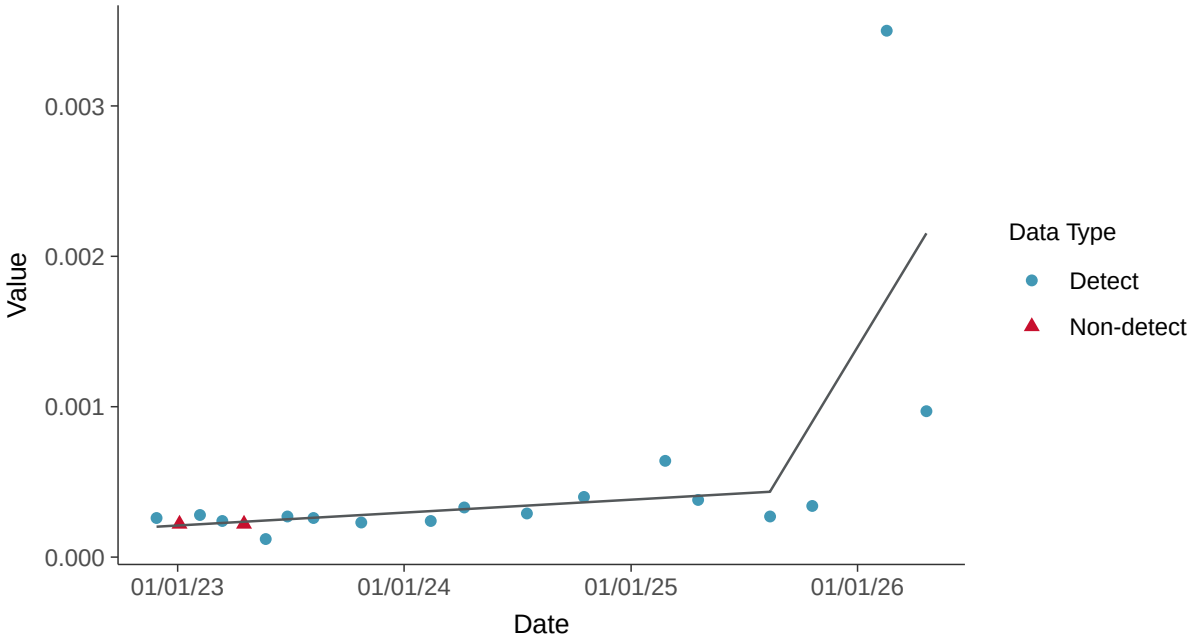
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-09 (mg/L)



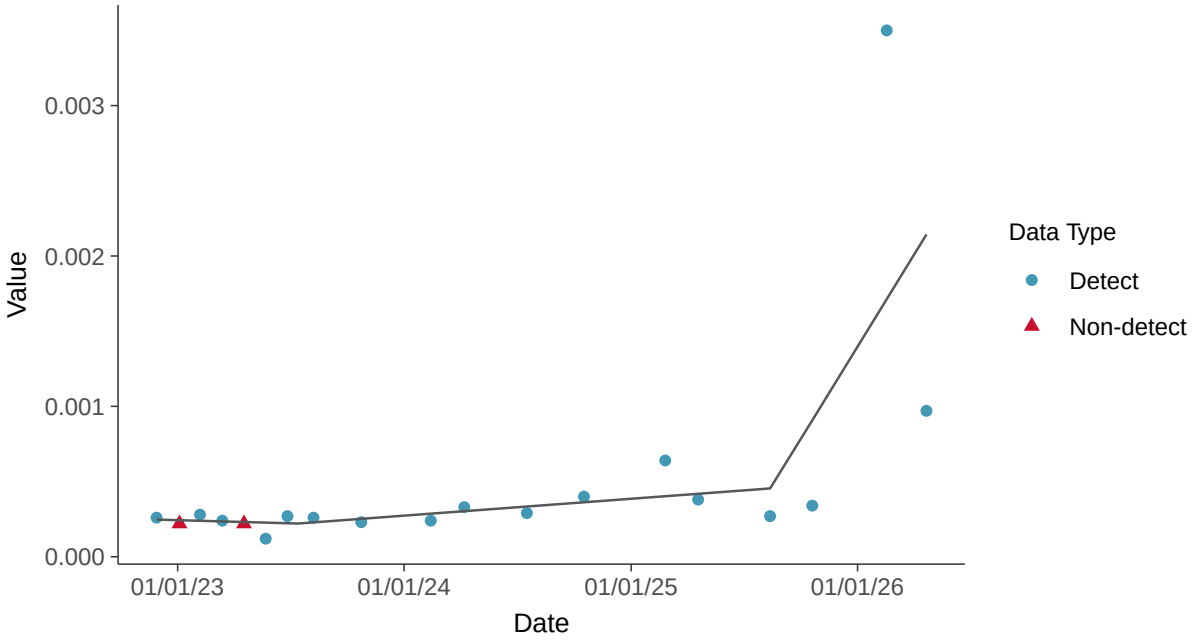
Trend Regression: Piecewise Linear-Linear

Selenium, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-09 (mg/L)

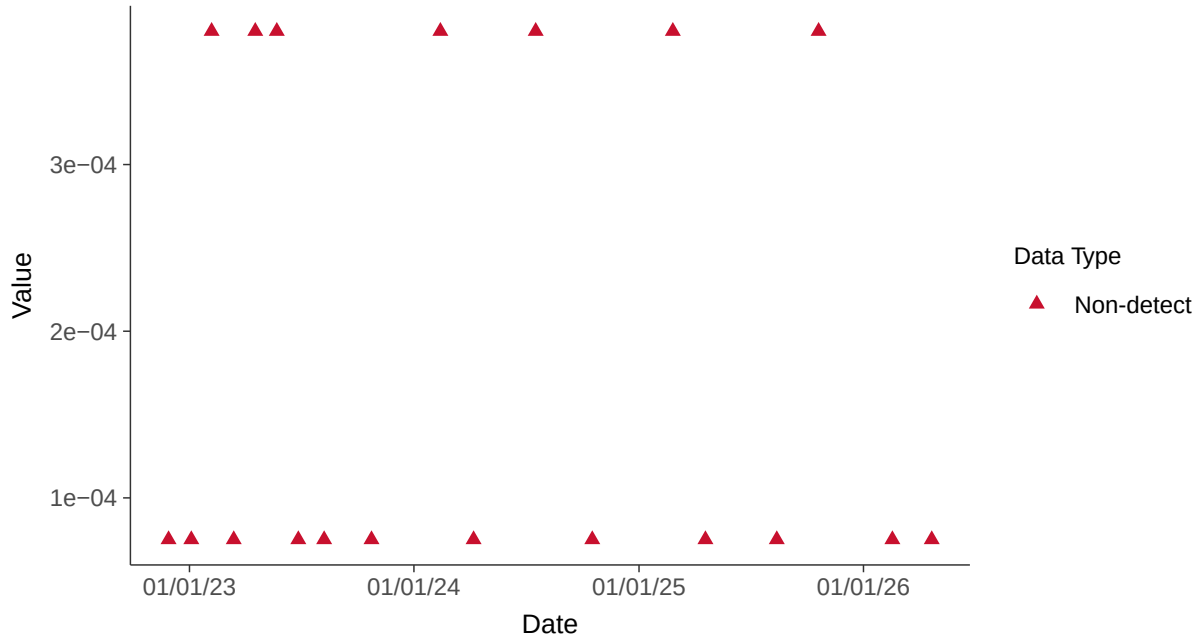


Appendix IV: Thallium, MW-09

ID: 19_2_4_125

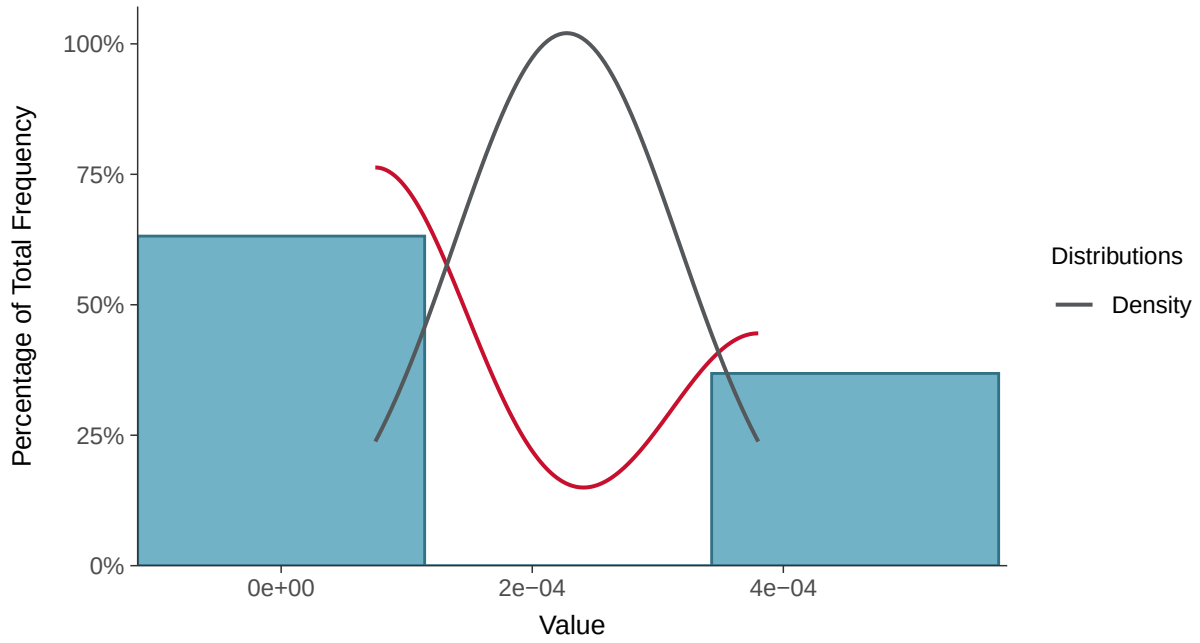
Scatter Plot

Thallium, MW-09 (mg/L)



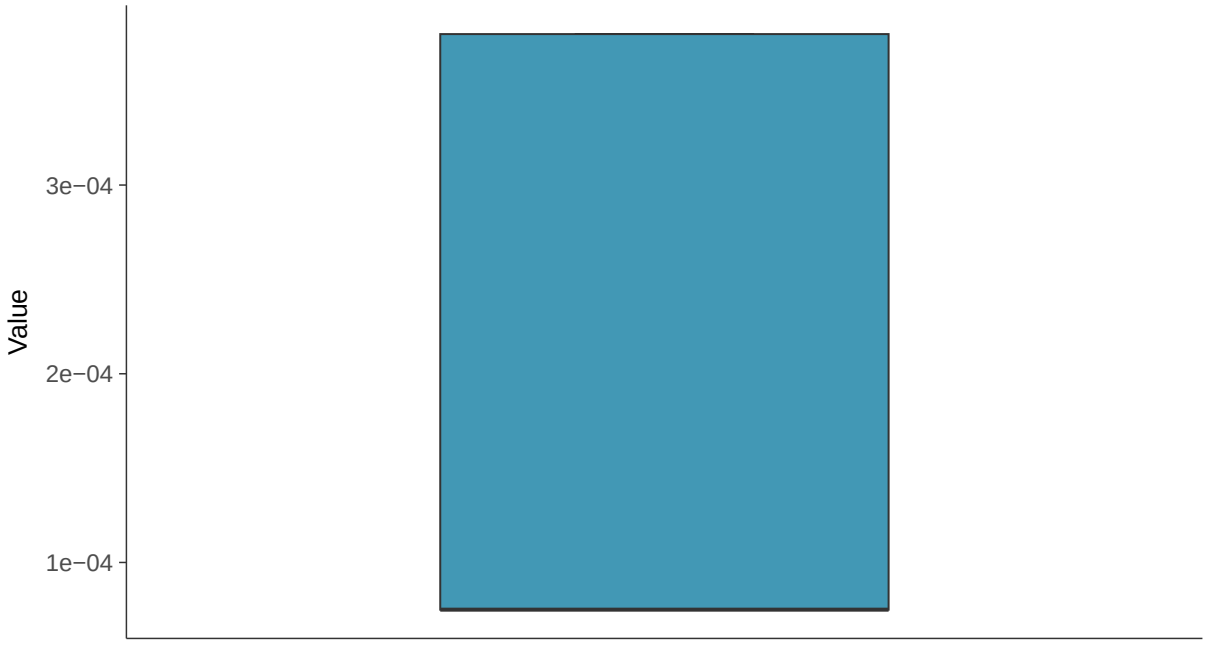
Histogram

Thallium, MW-09 (mg/L)



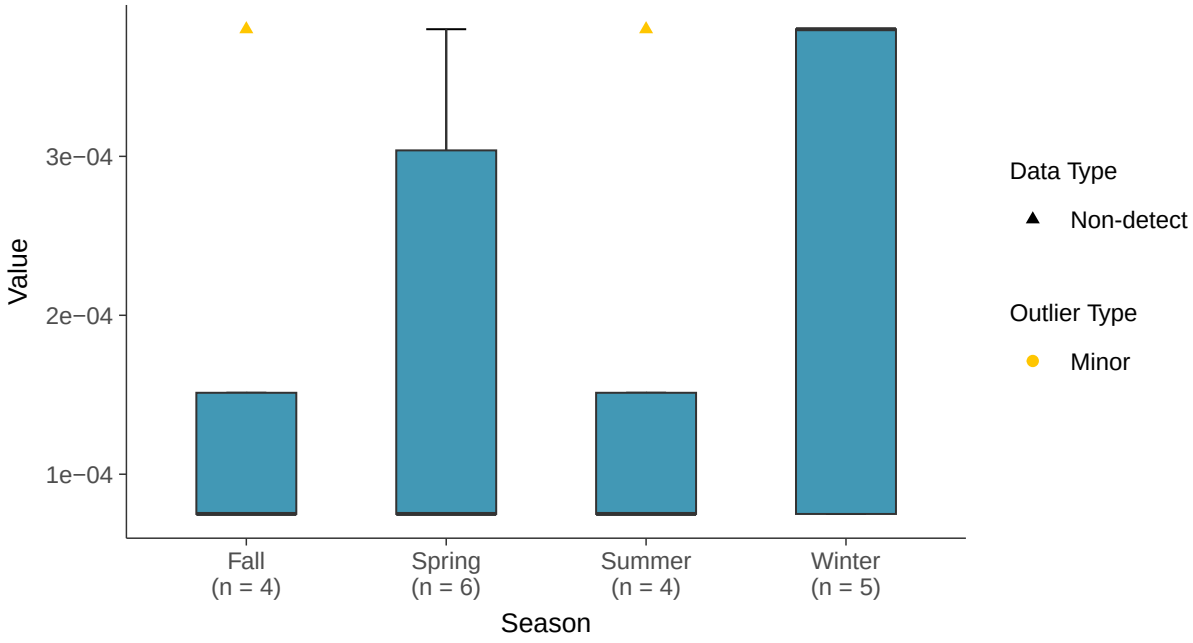
Boxplot

Thallium, MW-09 (mg/L)



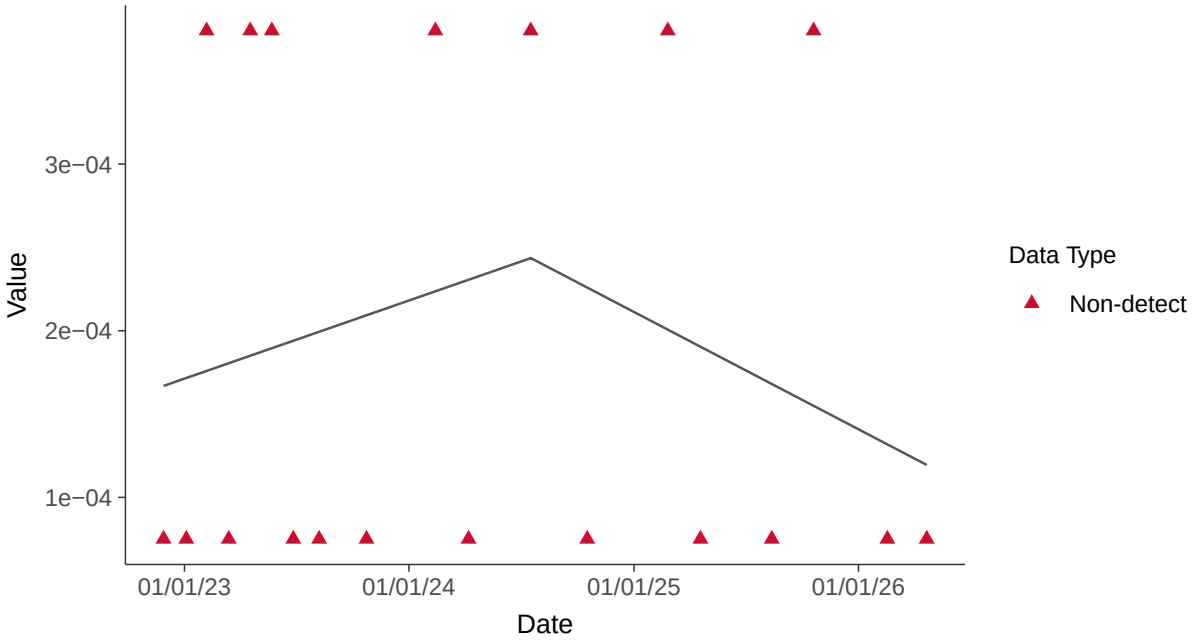
Boxplot by Season

Thallium, MW-09 (mg/L)



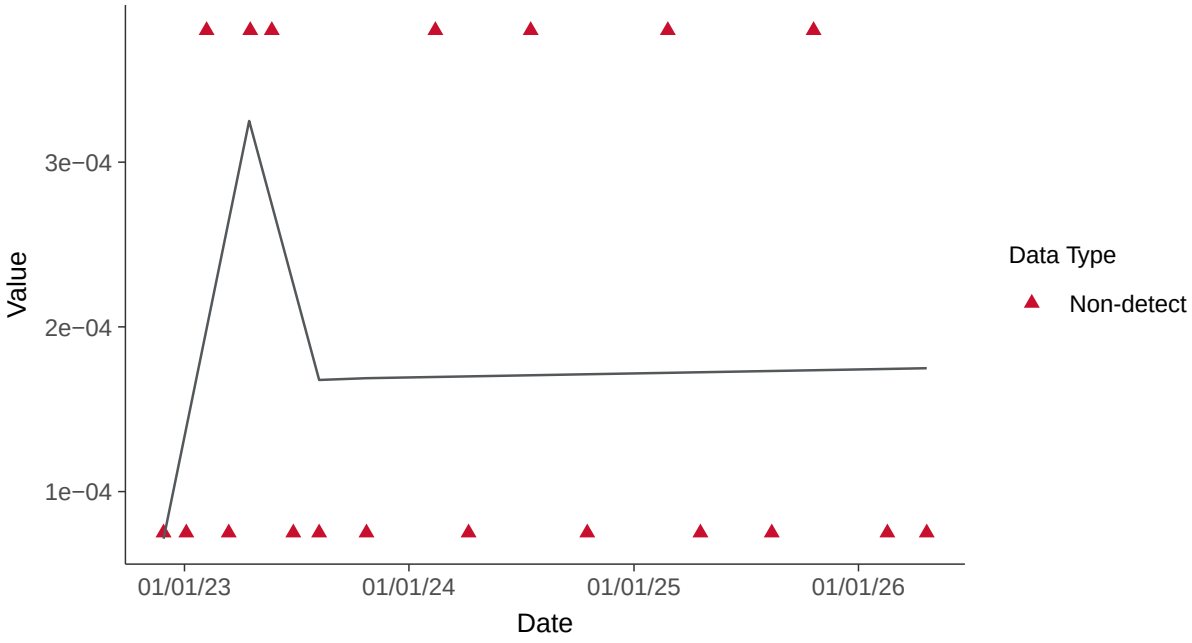
Trend Regression: Piecewise Linear-Linear

Thallium, MW-09 (mg/L)



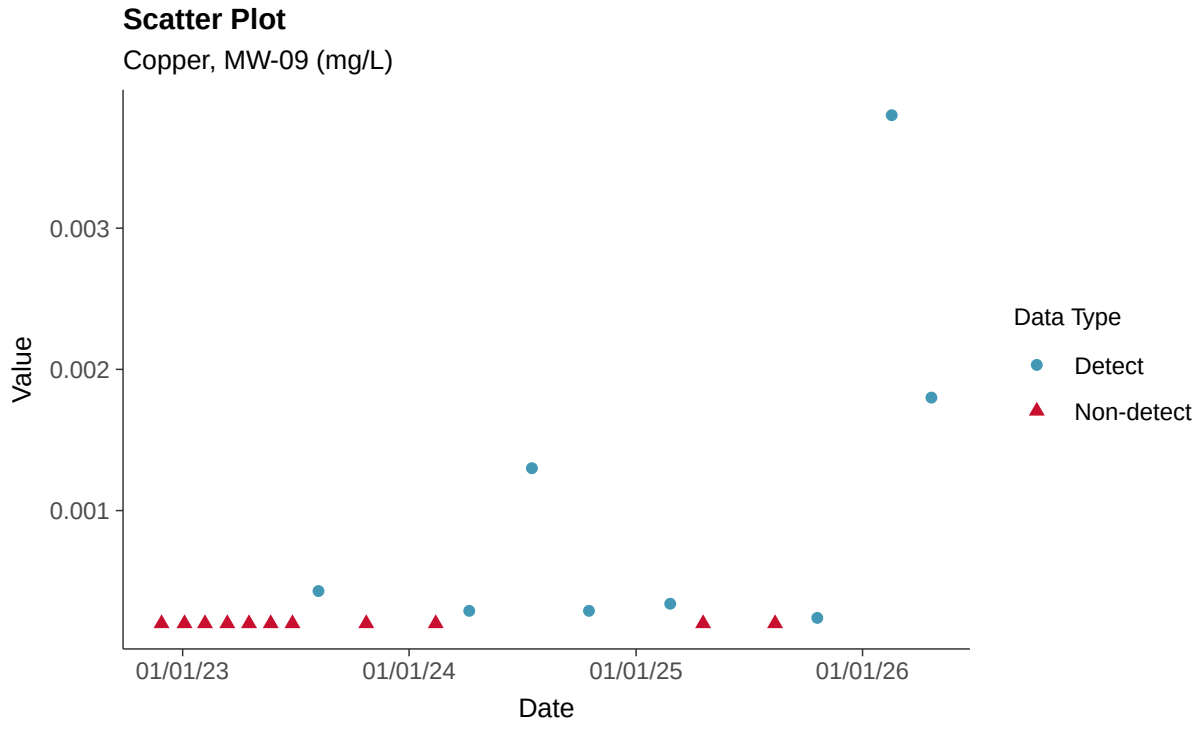
Trend Regression: Piecewise Linear-Linear-Linear

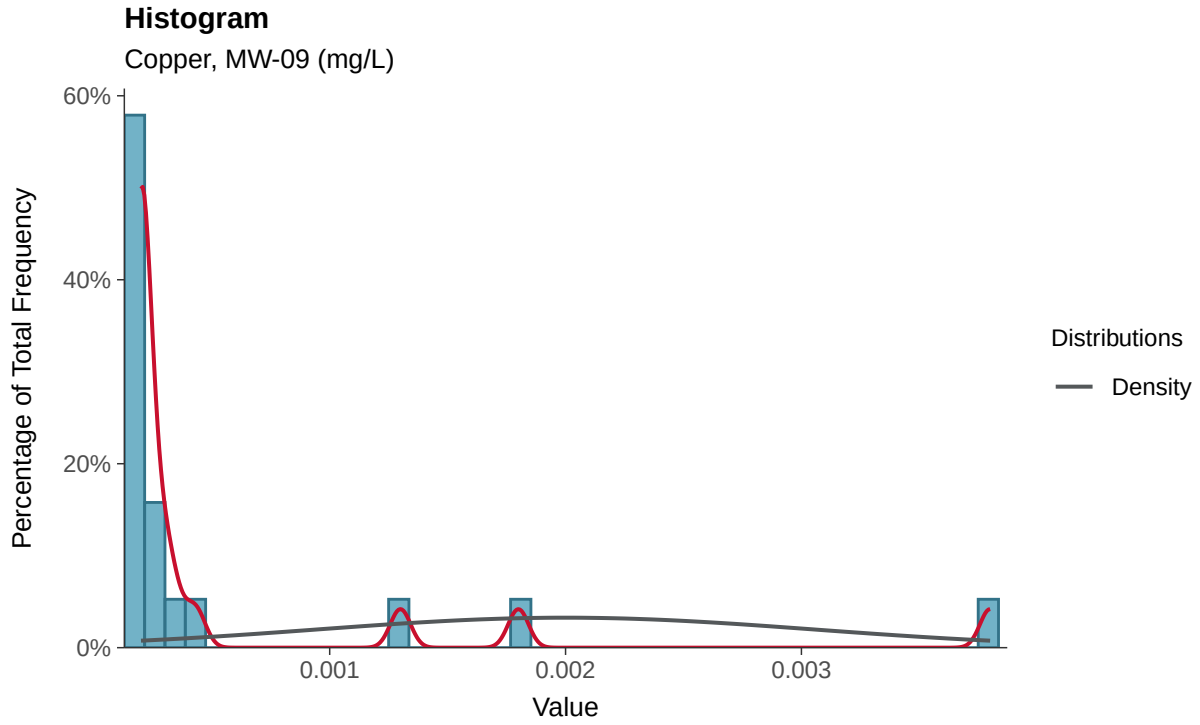
Thallium, MW-09 (mg/L)



Part 115: Copper, MW-09

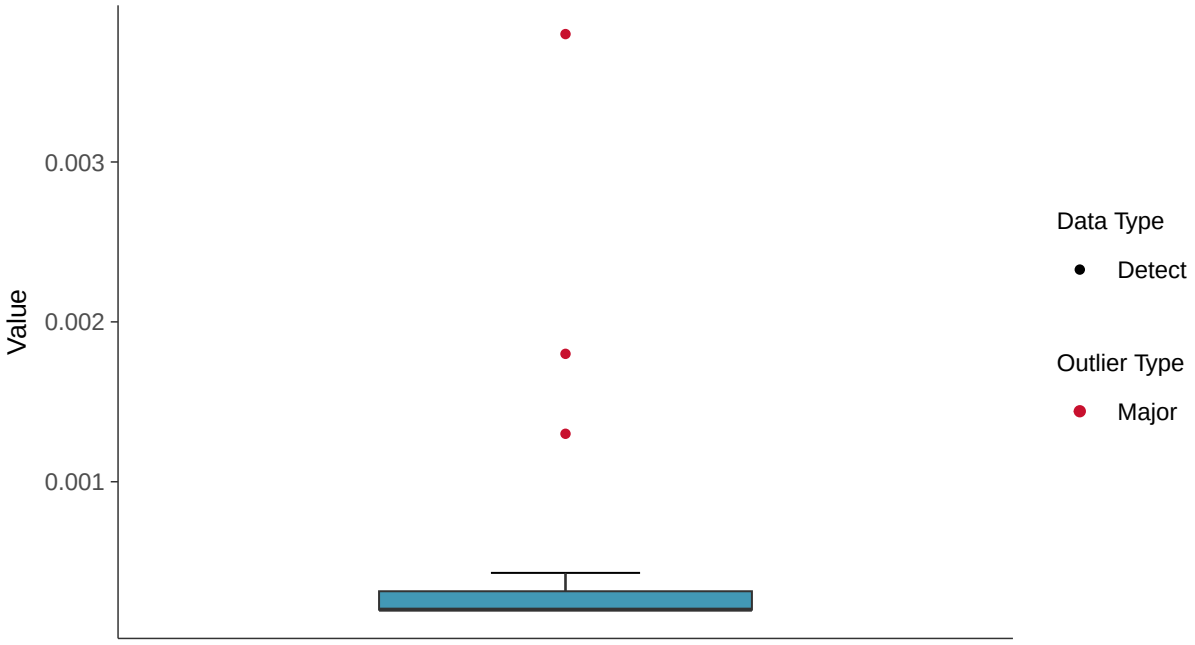
ID: 19_2_5_111





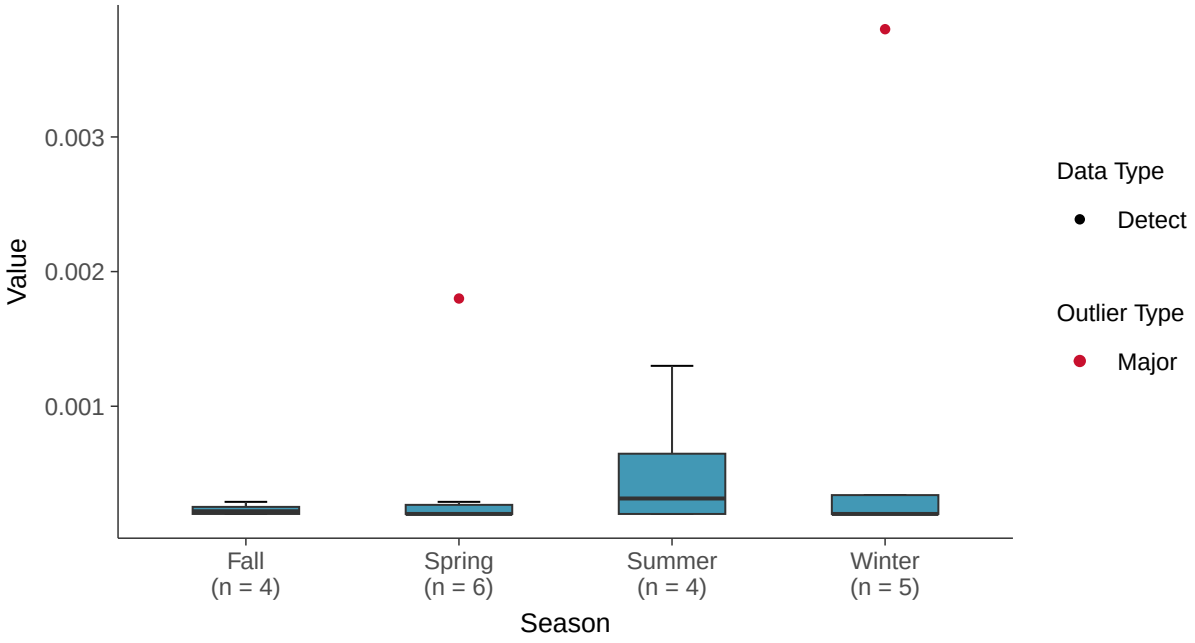
Boxplot

Copper, MW-09 (mg/L)



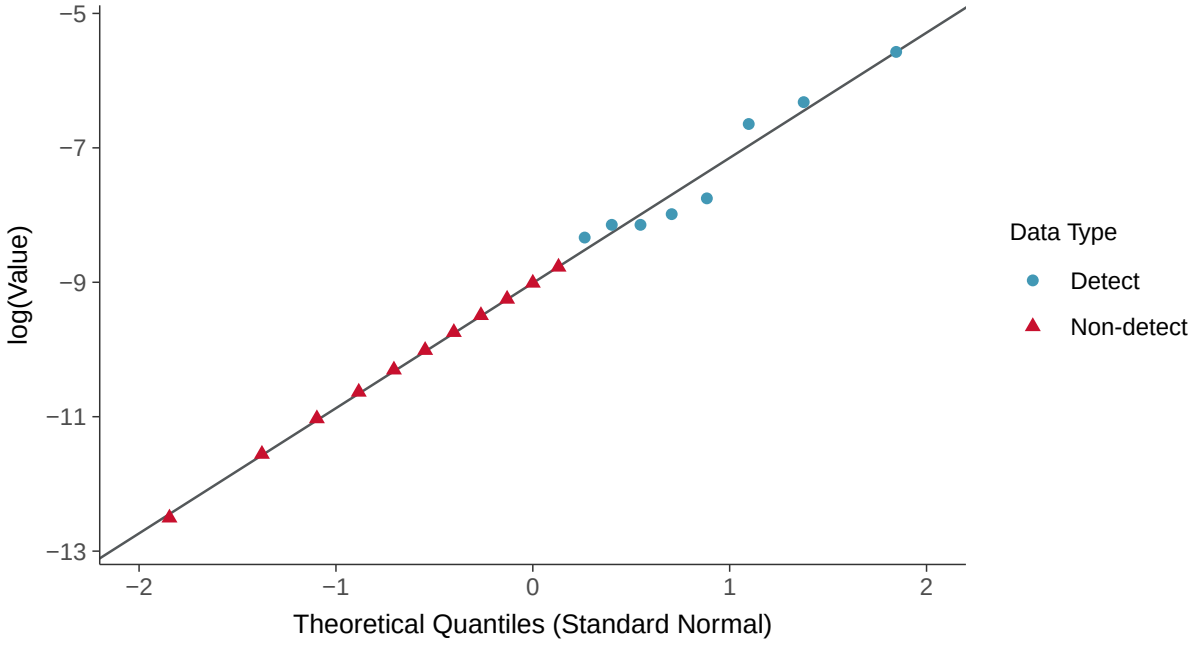
Boxplot by Season

Copper, MW-09 (mg/L)



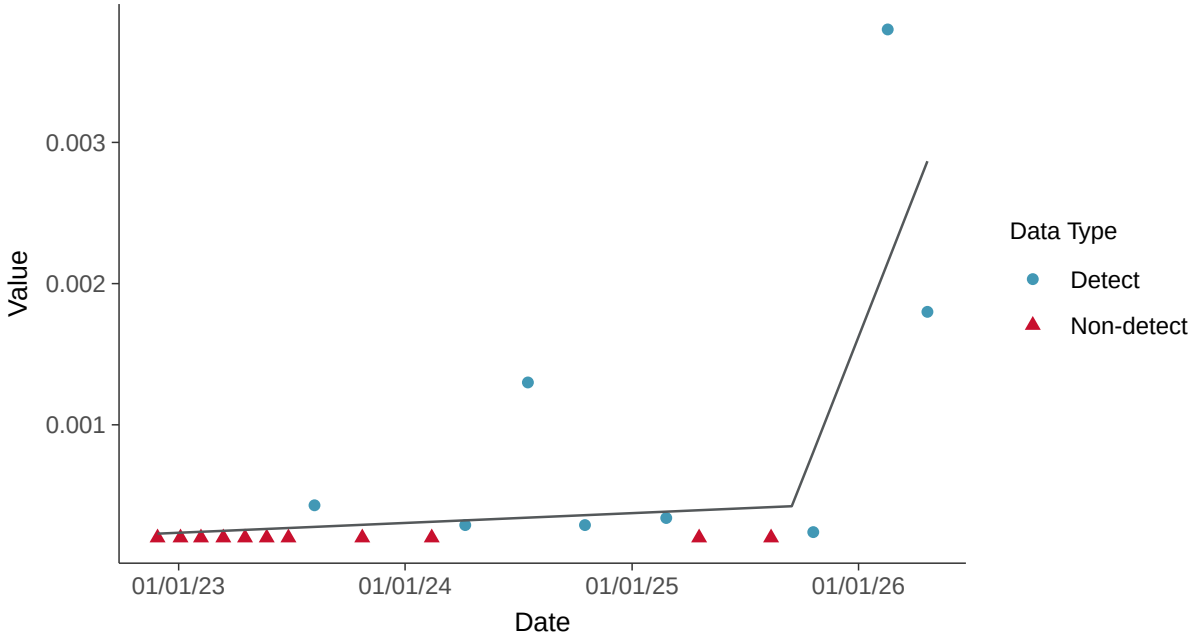
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-09 (mg/L)



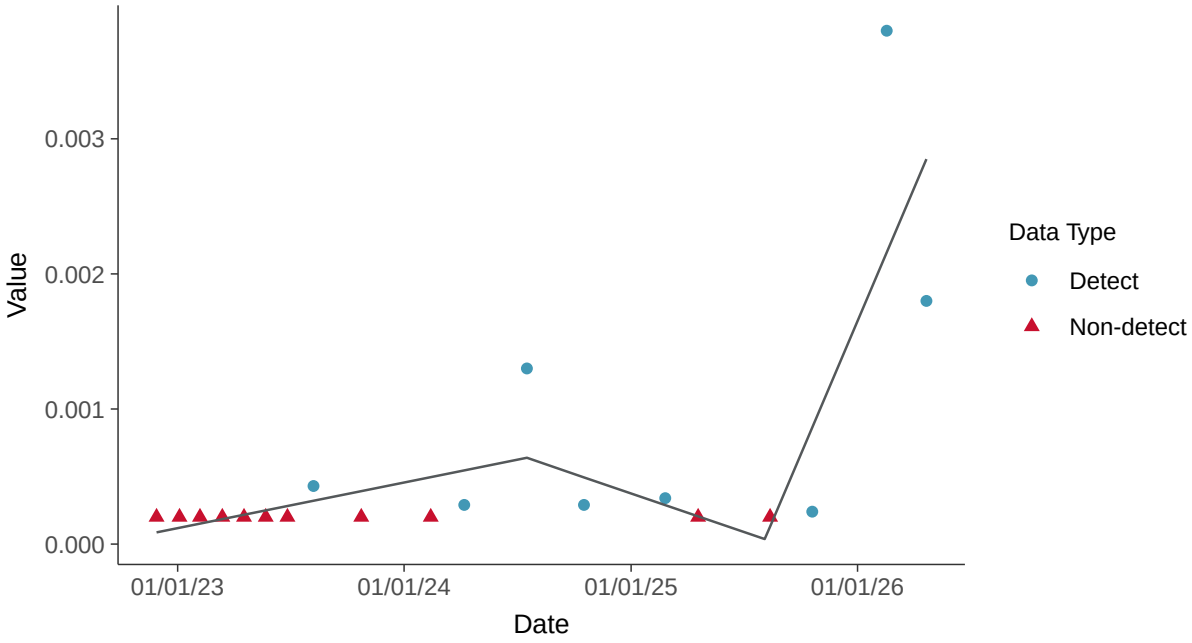
Trend Regression: Piecewise Linear-Linear

Copper, MW-09 (mg/L)



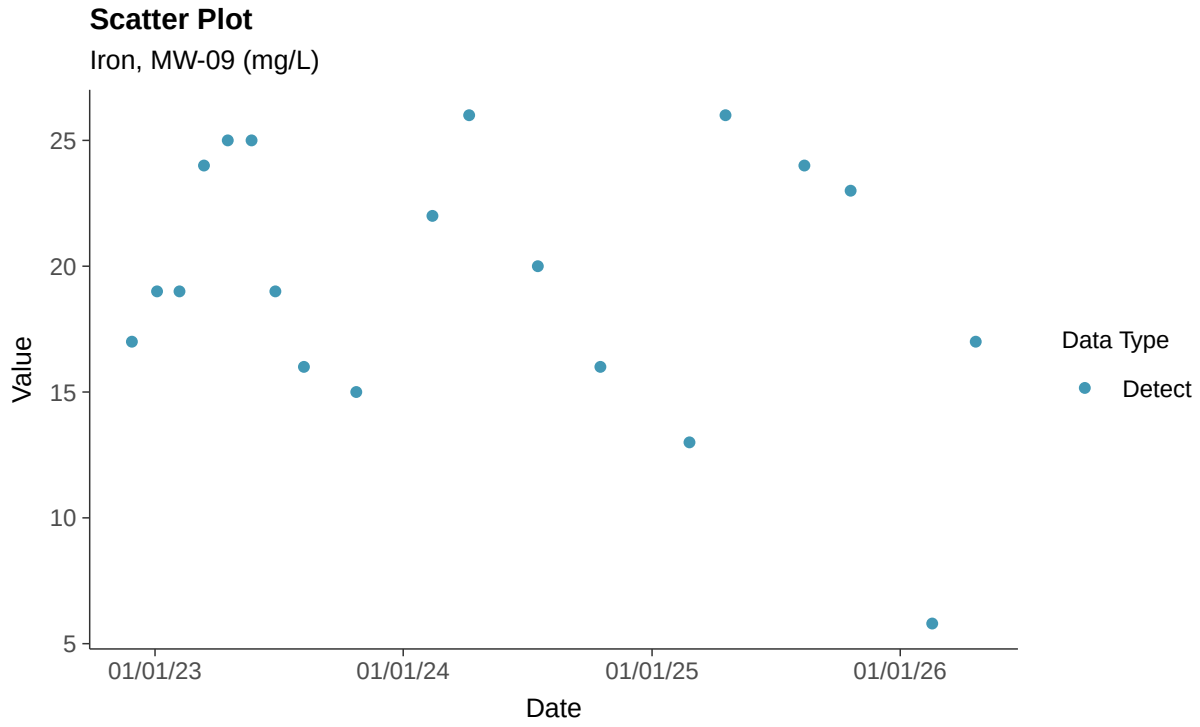
Trend Regression: Piecewise Linear-Linear-Linear

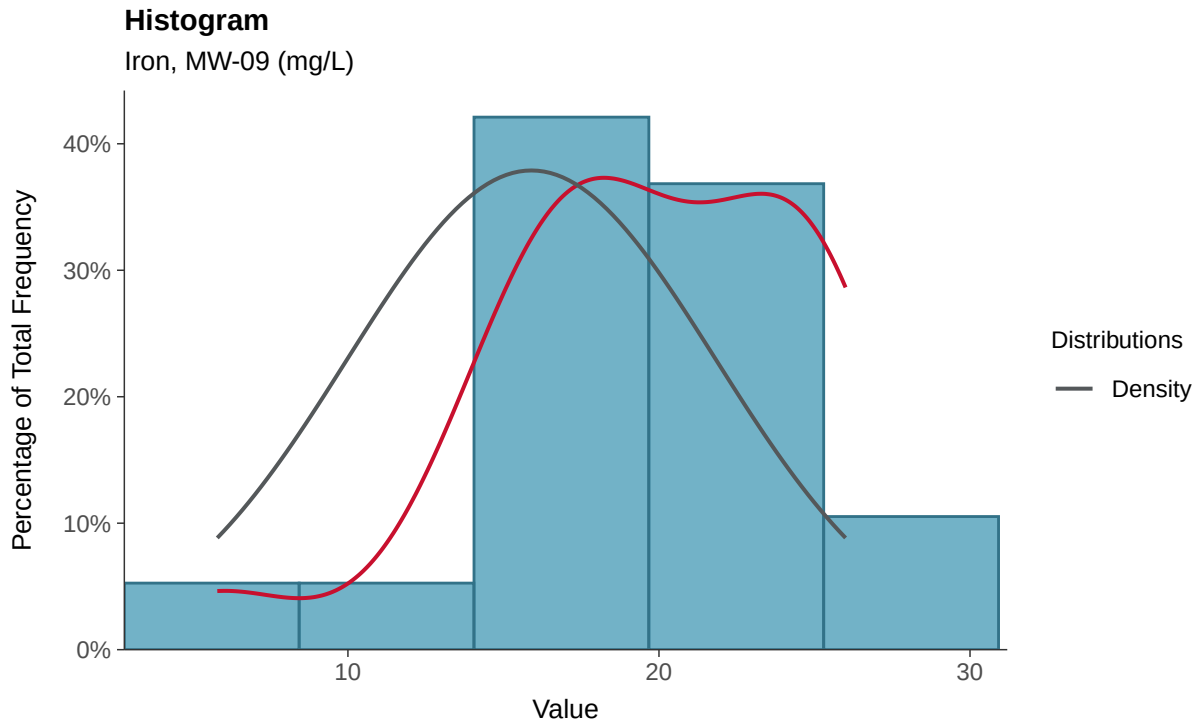
Copper, MW-09 (mg/L)



Part 115: Iron, MW-09

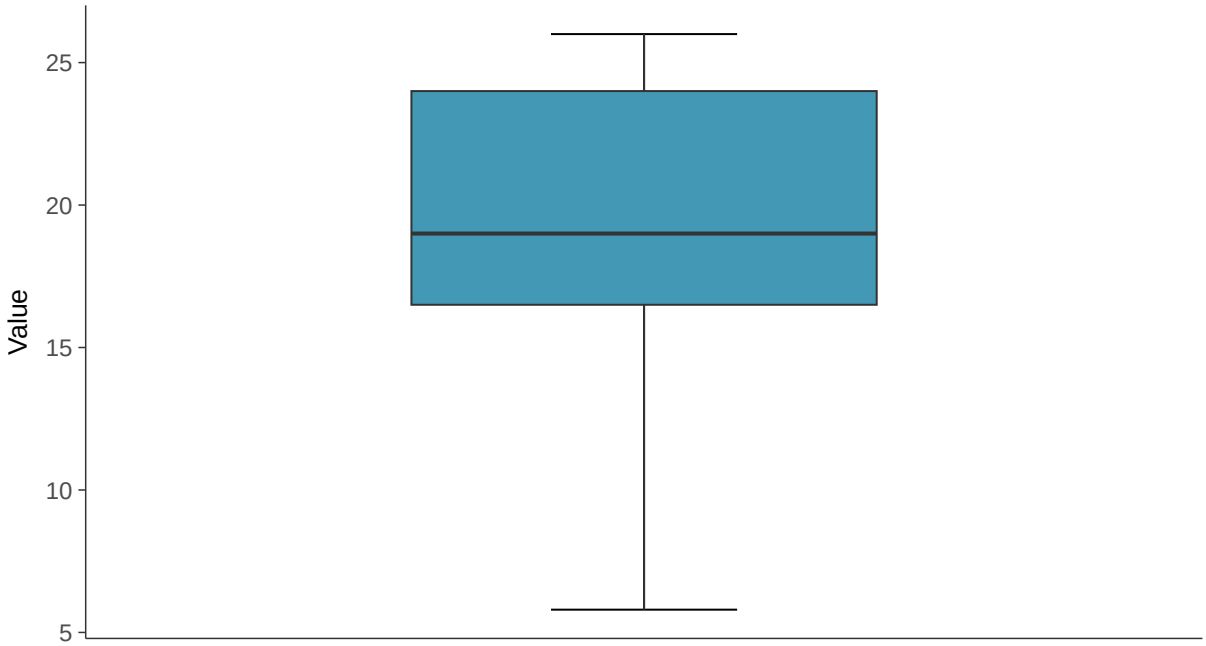
ID: 19_2_5_114





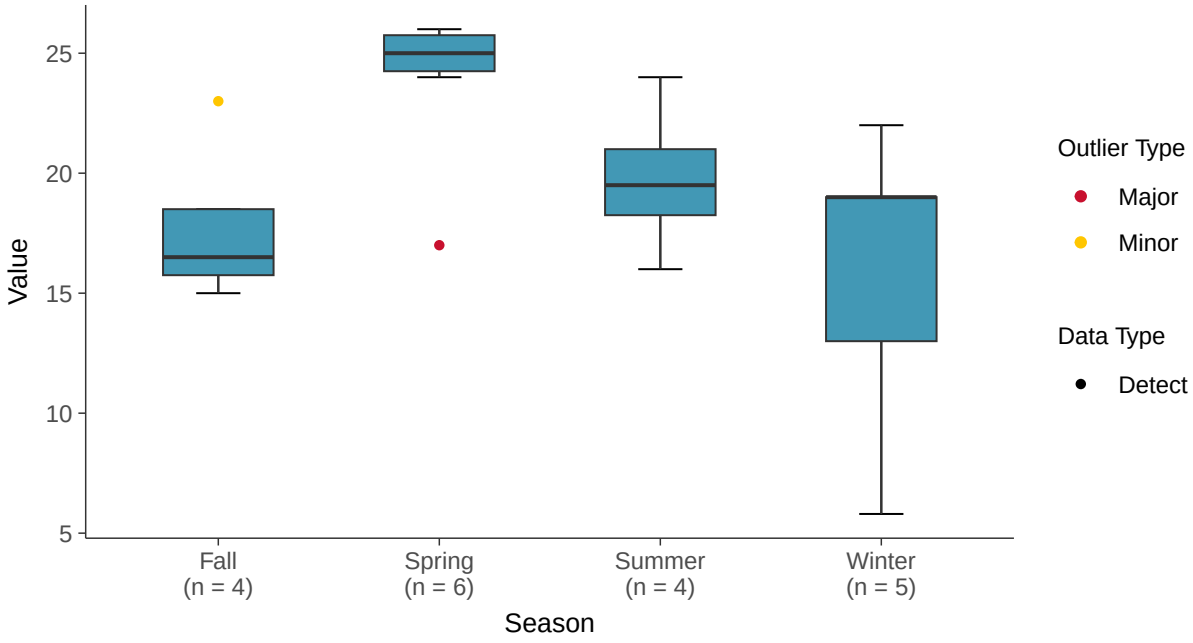
Boxplot

Iron, MW-09 (mg/L)



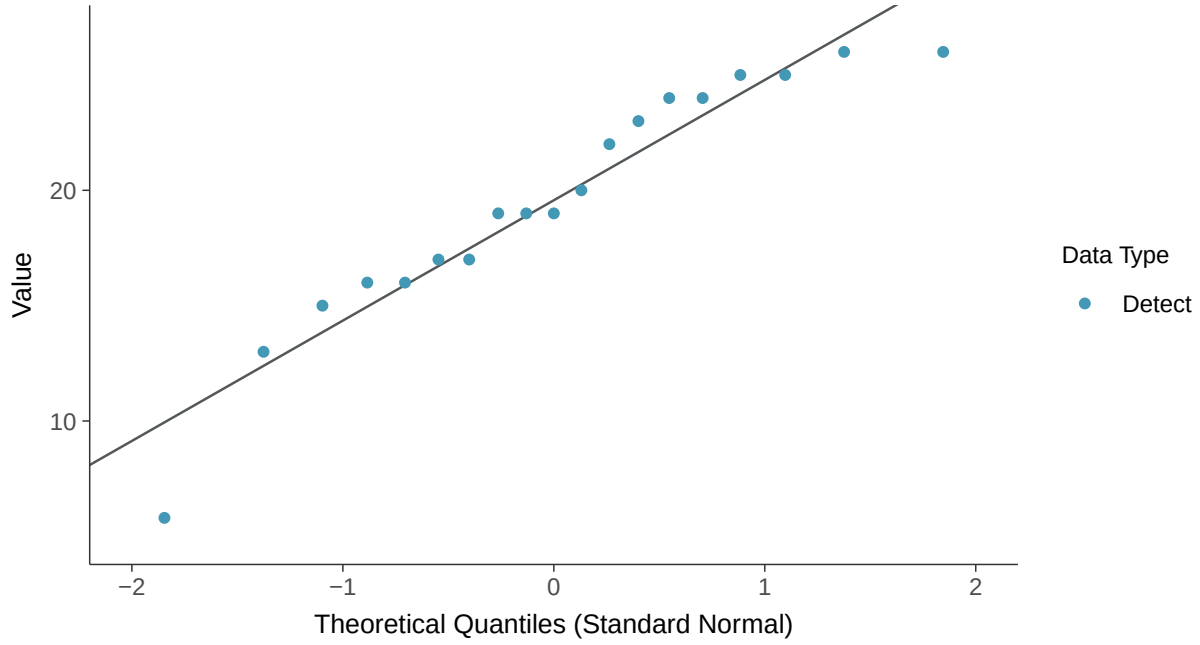
Boxplot by Season

Iron, MW-09 (mg/L)



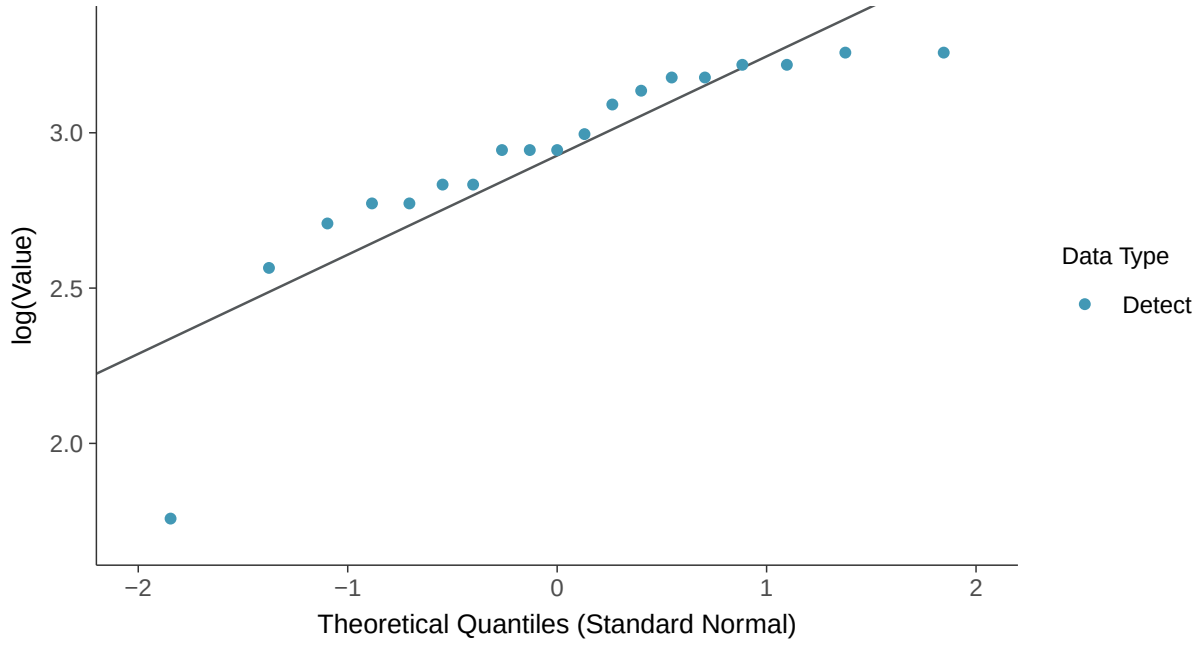
Normal Q-Q plot

Iron, MW-09 (mg/L)



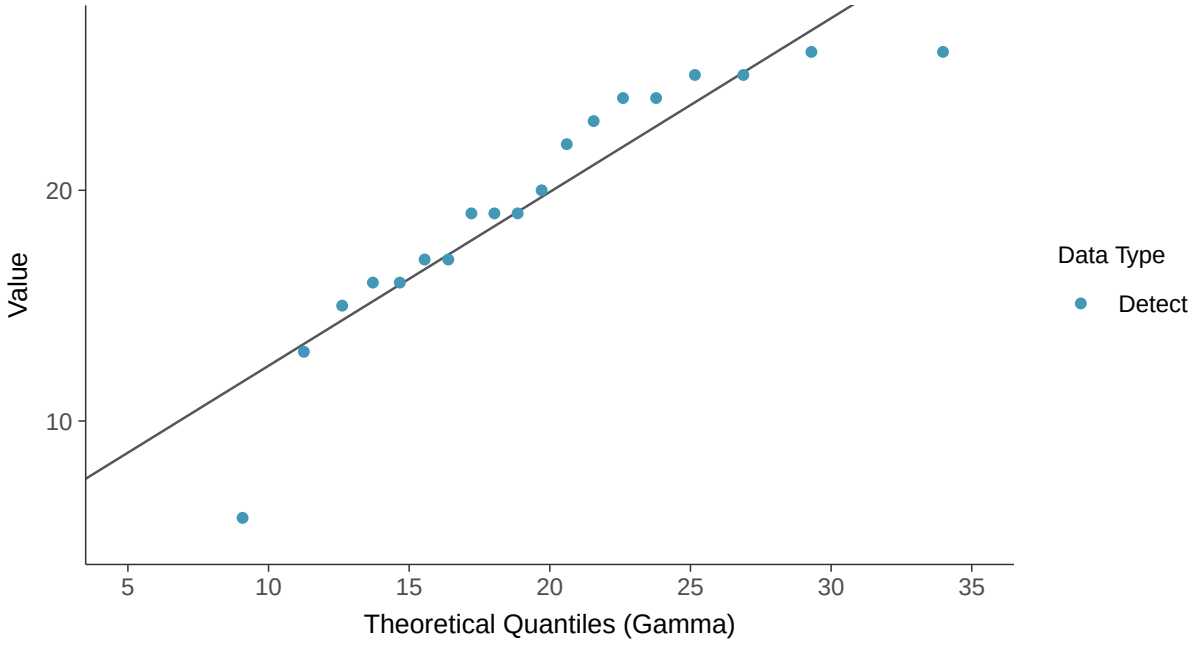
Lognormal Q-Q plot

Iron, MW-09 (mg/L)



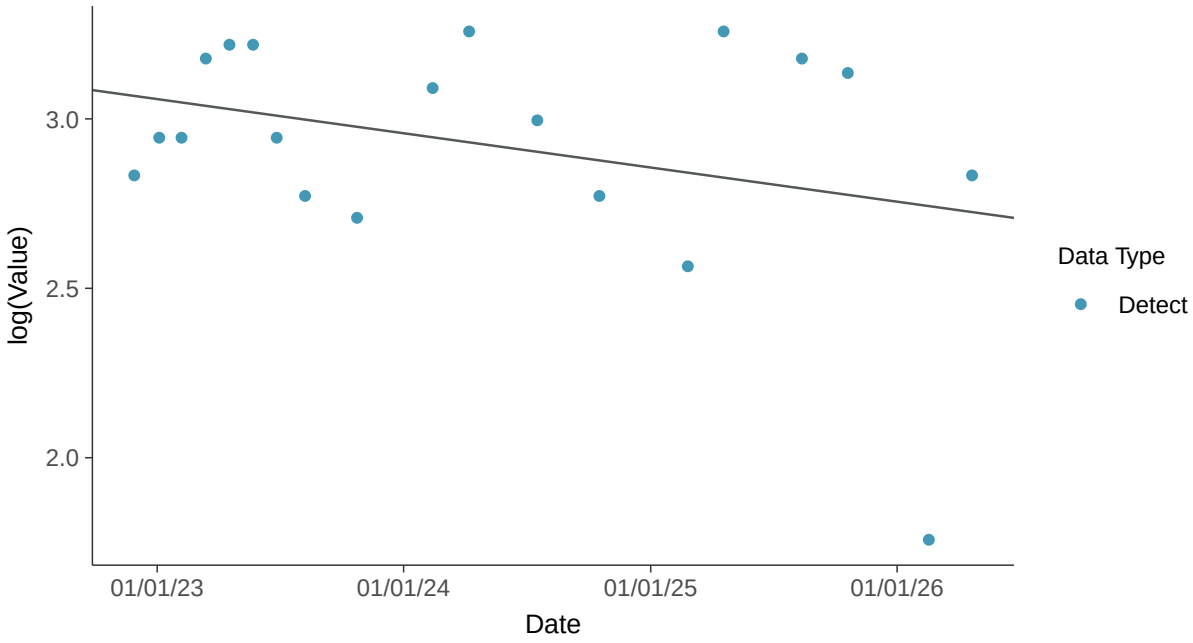
Gamma Q-Q plot

Iron, MW-09 (mg/L)



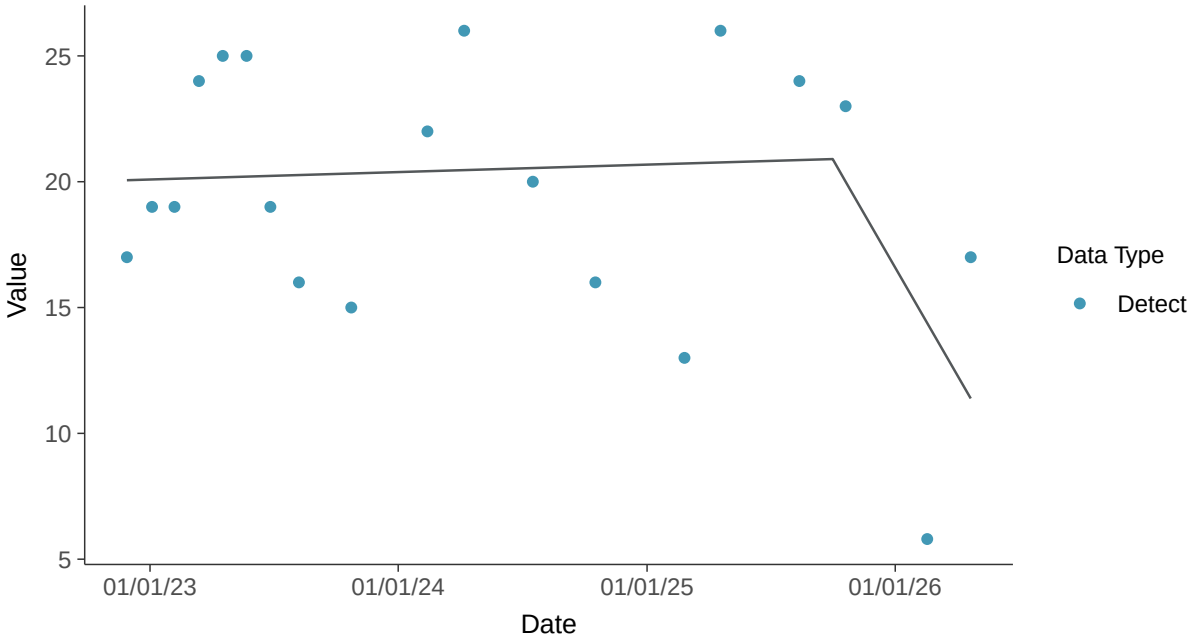
Trend Regression: Lognormal MLE

Iron, MW-09 (mg/L)



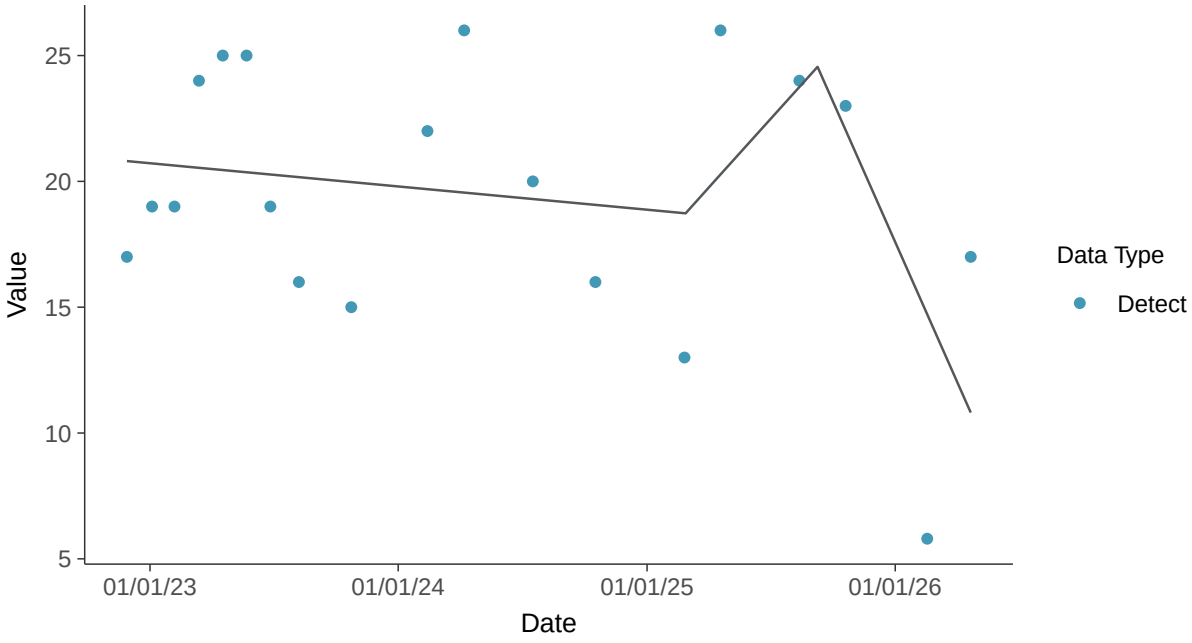
Trend Regression: Piecewise Linear-Linear

Iron, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-09 (mg/L)

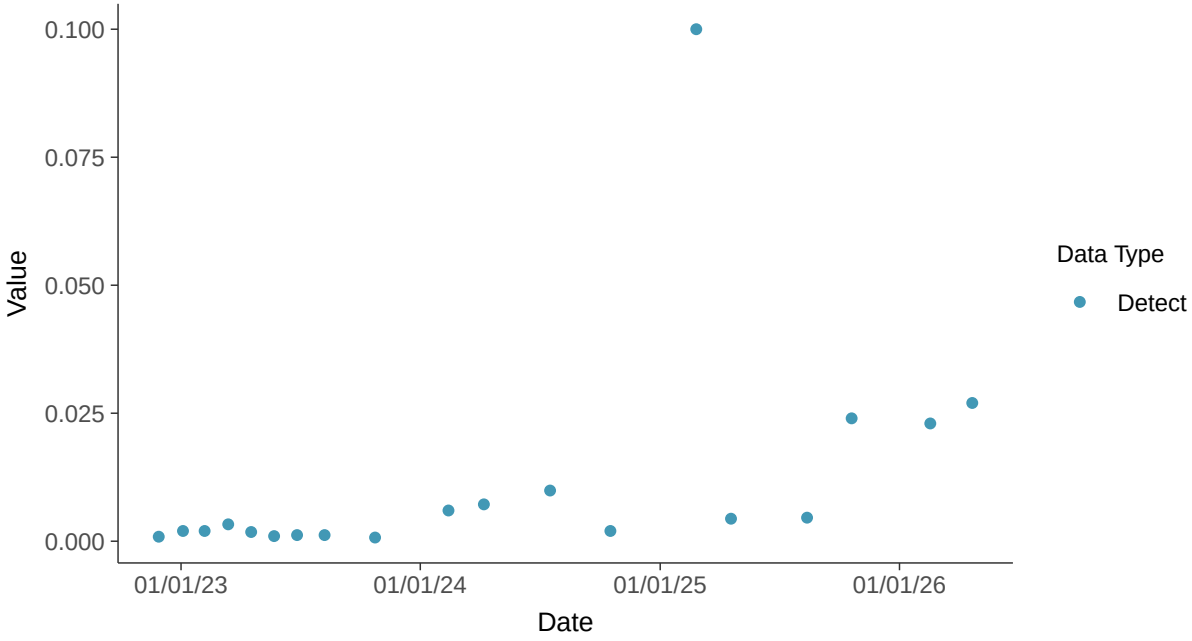


Part 115: Nickel, MW-09

ID: 19_2_5_119

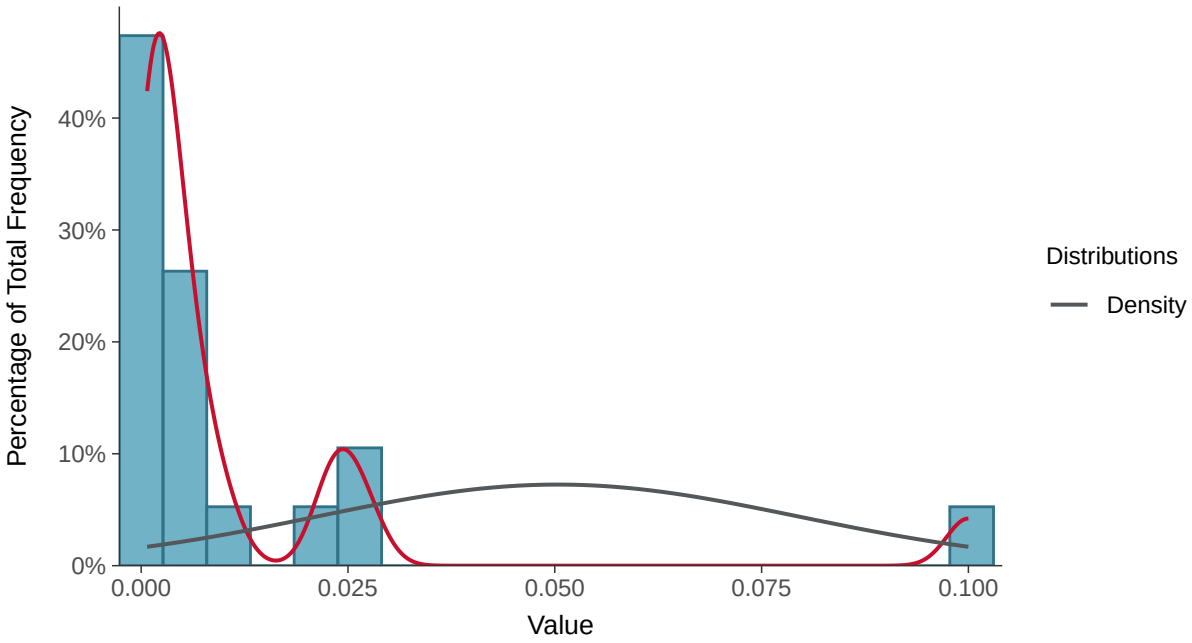
Scatter Plot

Nickel, MW-09 (mg/L)



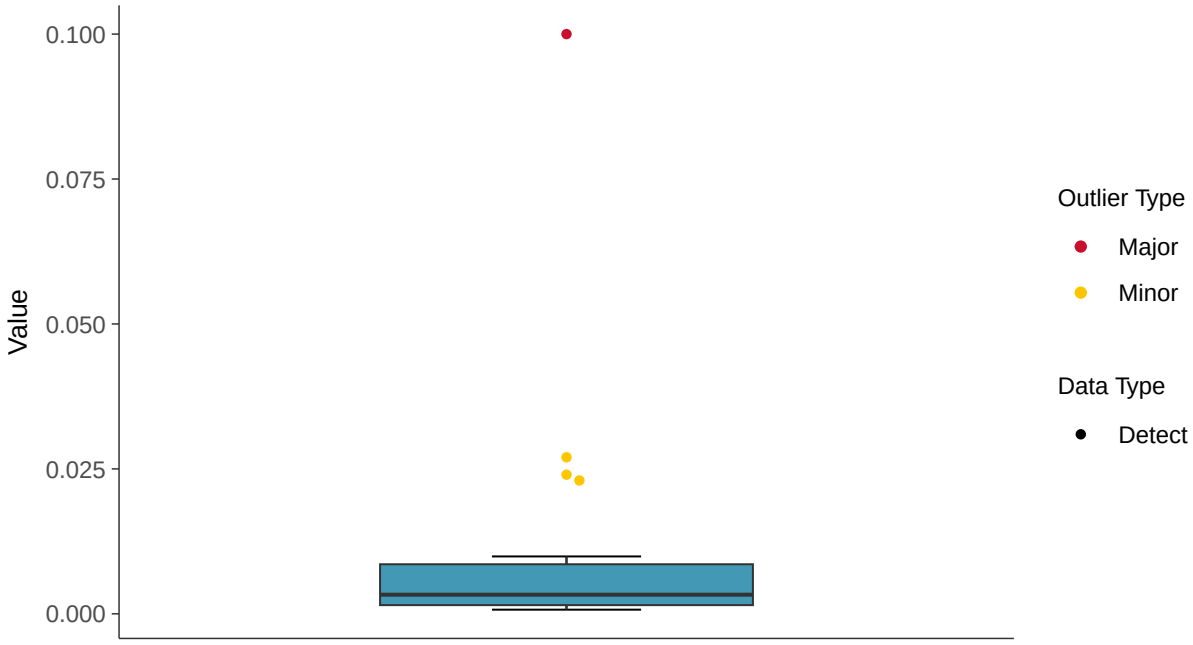
Histogram

Nickel, MW-09 (mg/L)



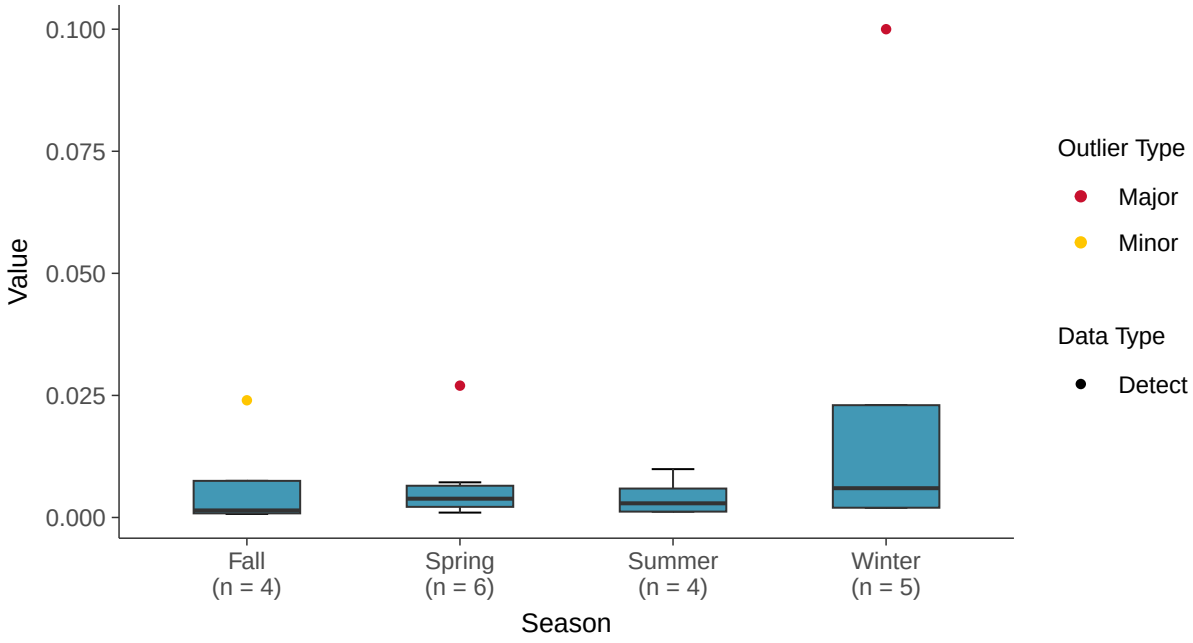
Boxplot

Nickel, MW-09 (mg/L)



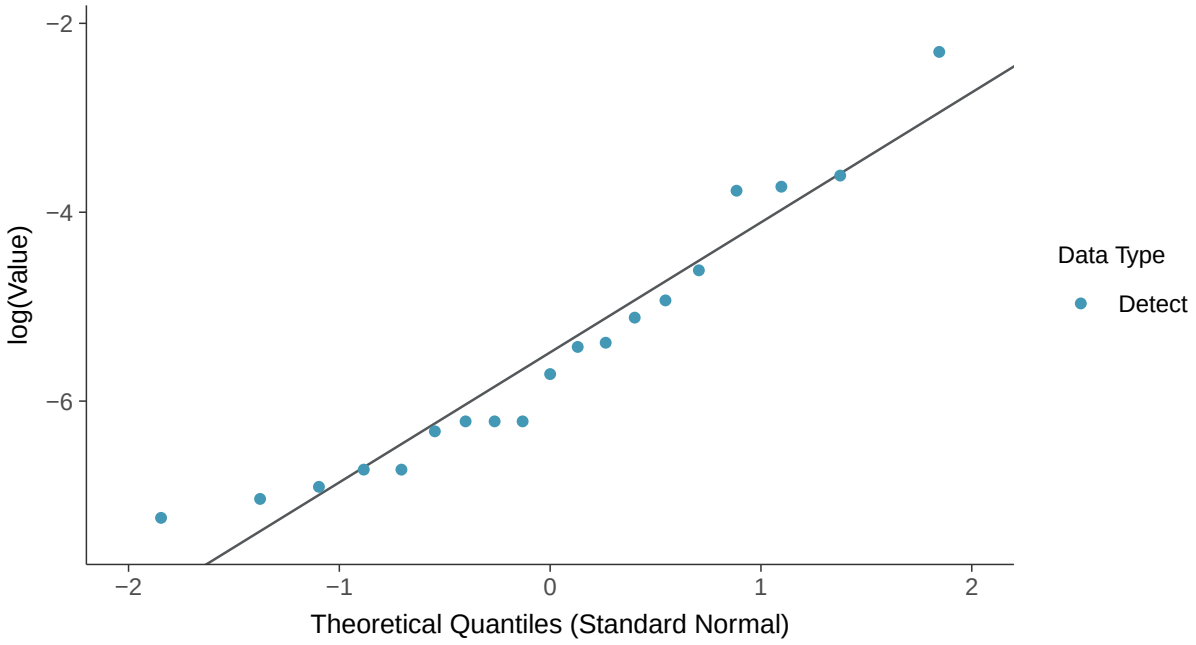
Boxplot by Season

Nickel, MW-09 (mg/L)



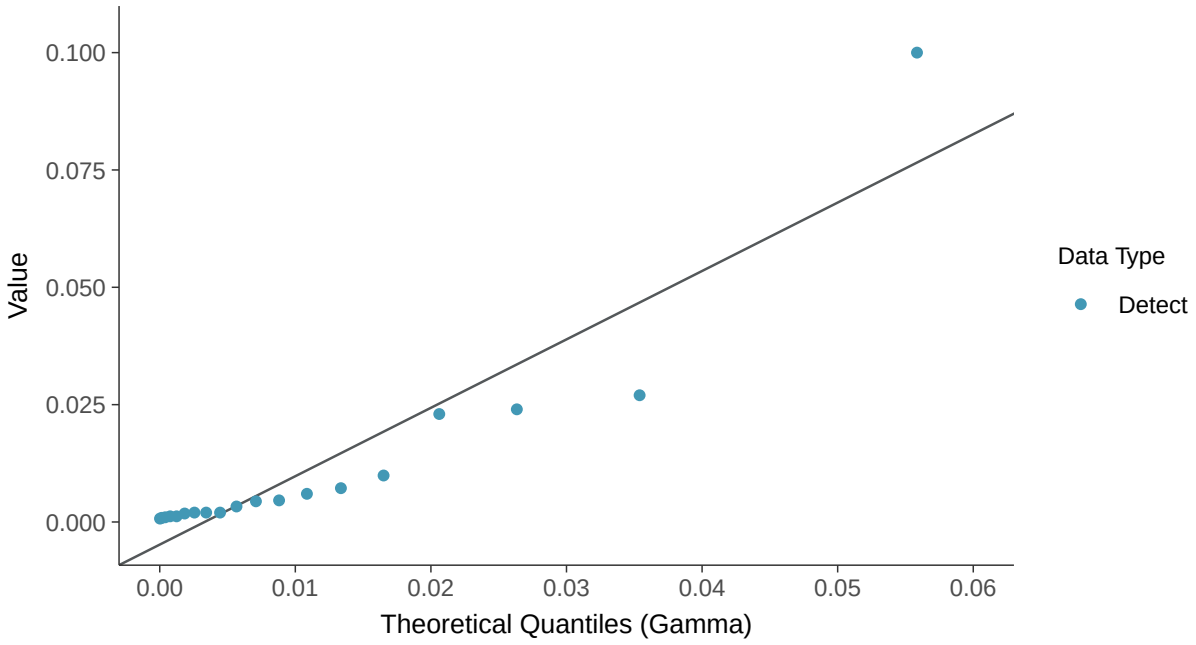
Lognormal Q-Q plot

Nickel, MW-09 (mg/L)



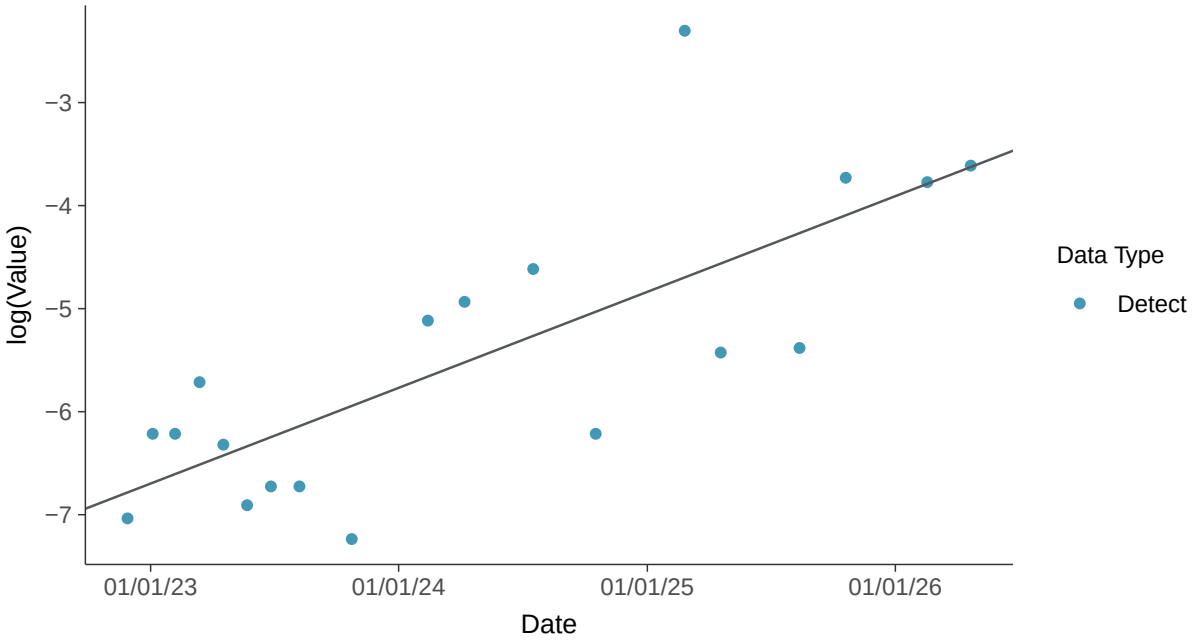
Gamma Q-Q plot

Nickel, MW-09 (mg/L)



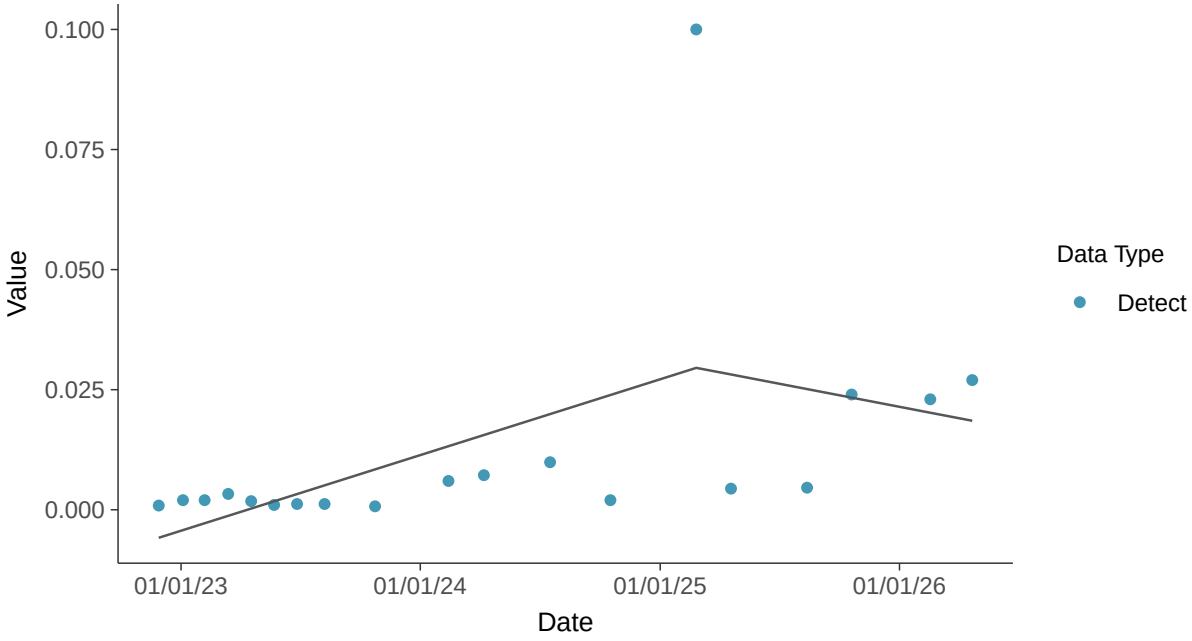
Trend Regression: Lognormal MLE

Nickel, MW-09 (mg/L)



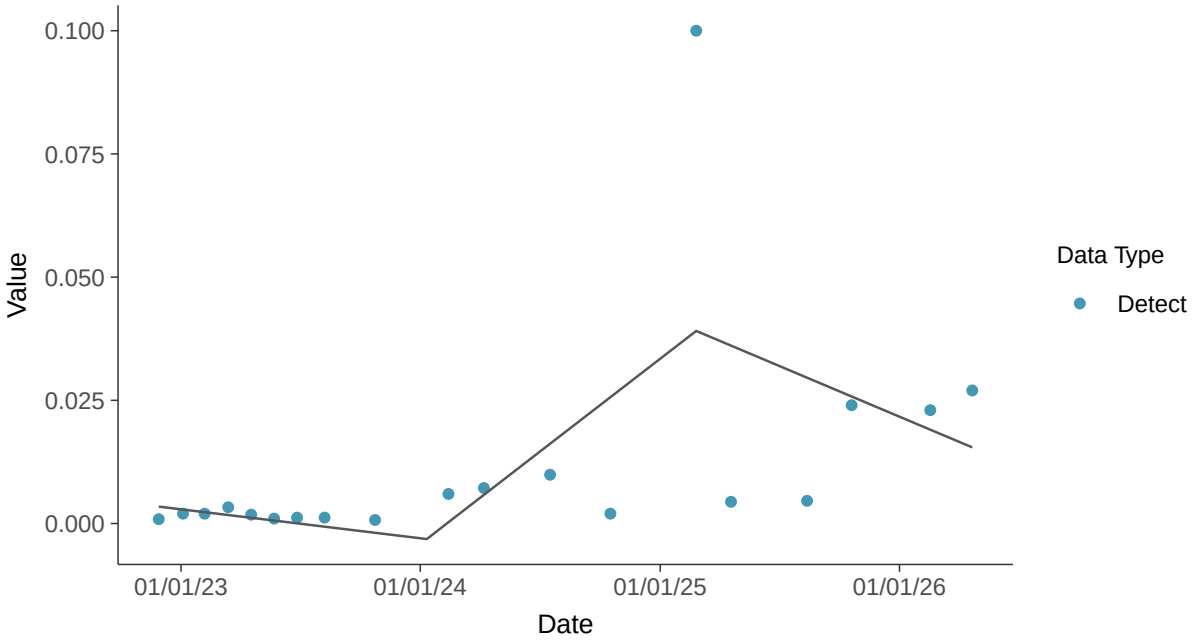
Trend Regression: Piecewise Linear-Linear

Nickel, MW-09 (mg/L)



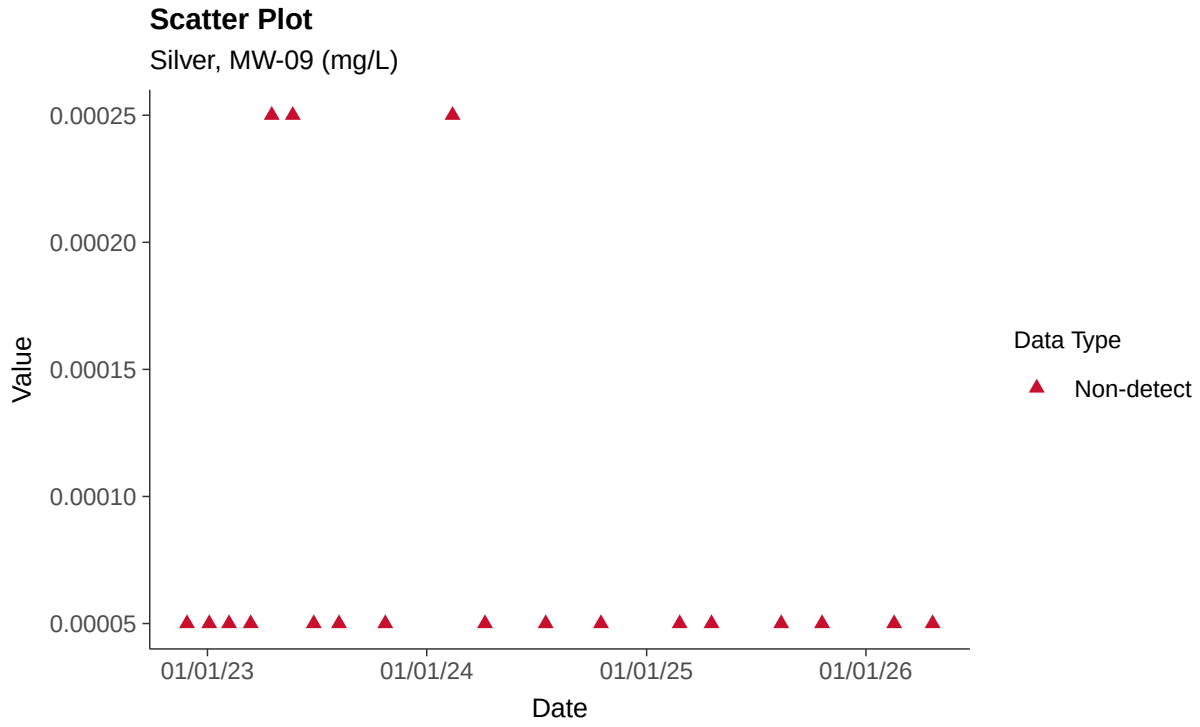
Trend Regression: Piecewise Linear-Linear-Linear

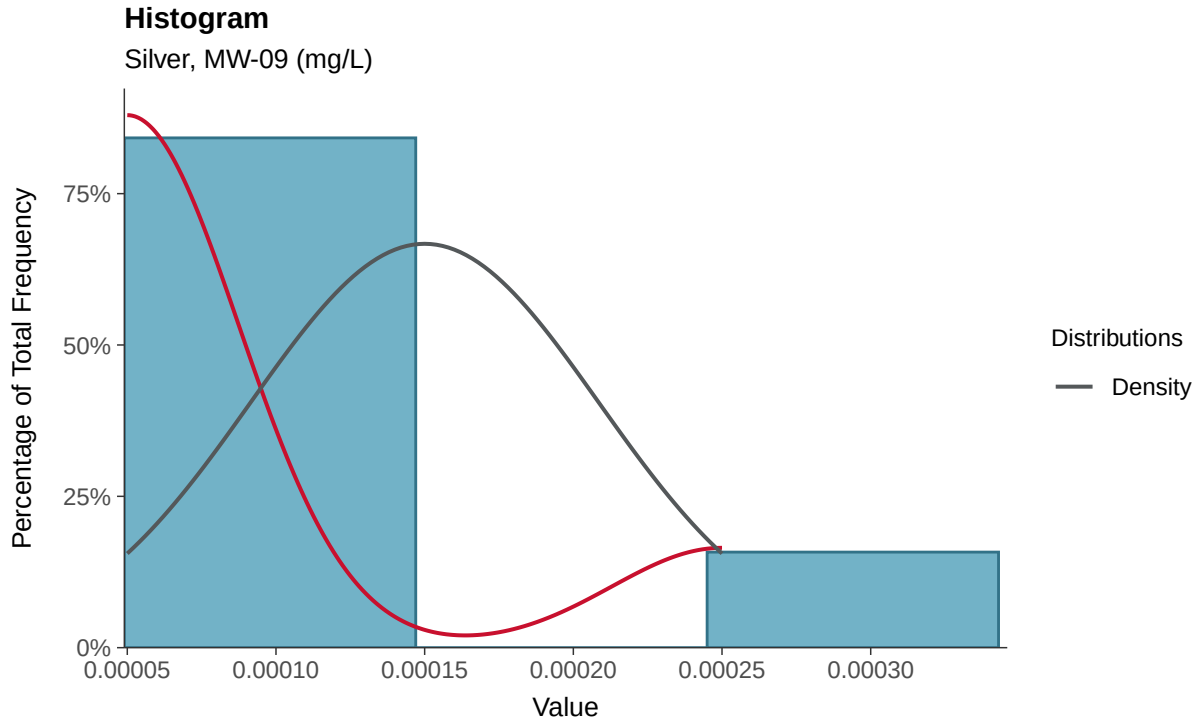
Nickel, MW-09 (mg/L)



Part 115: Silver, MW-09

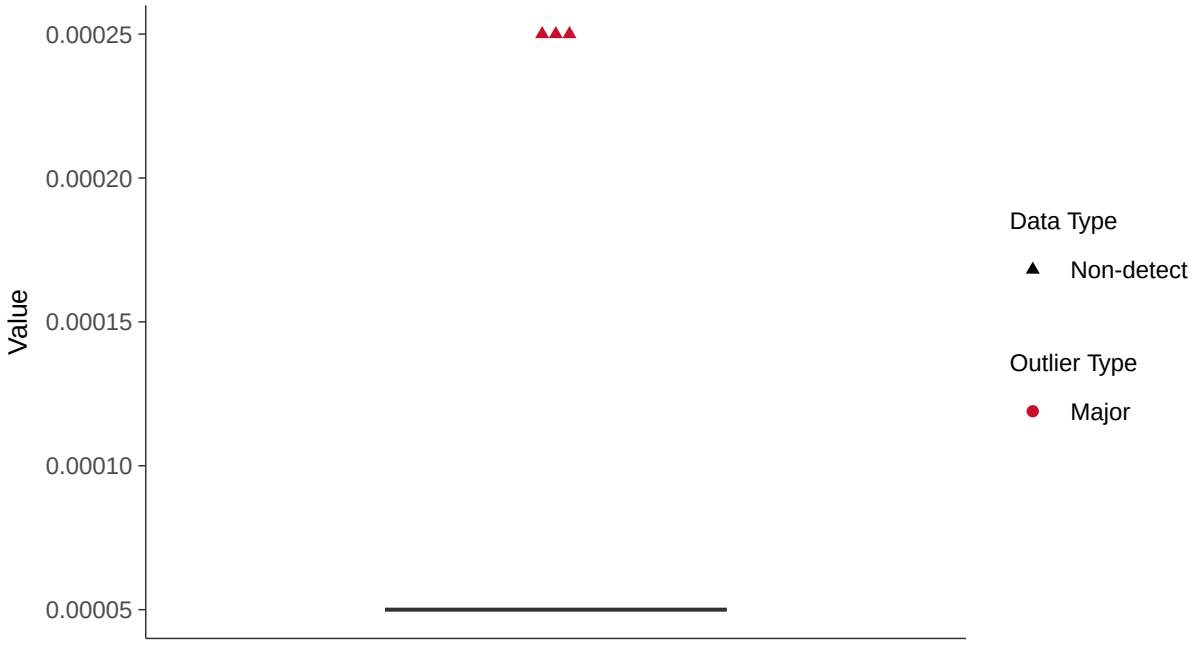
ID: 19_2_5_123





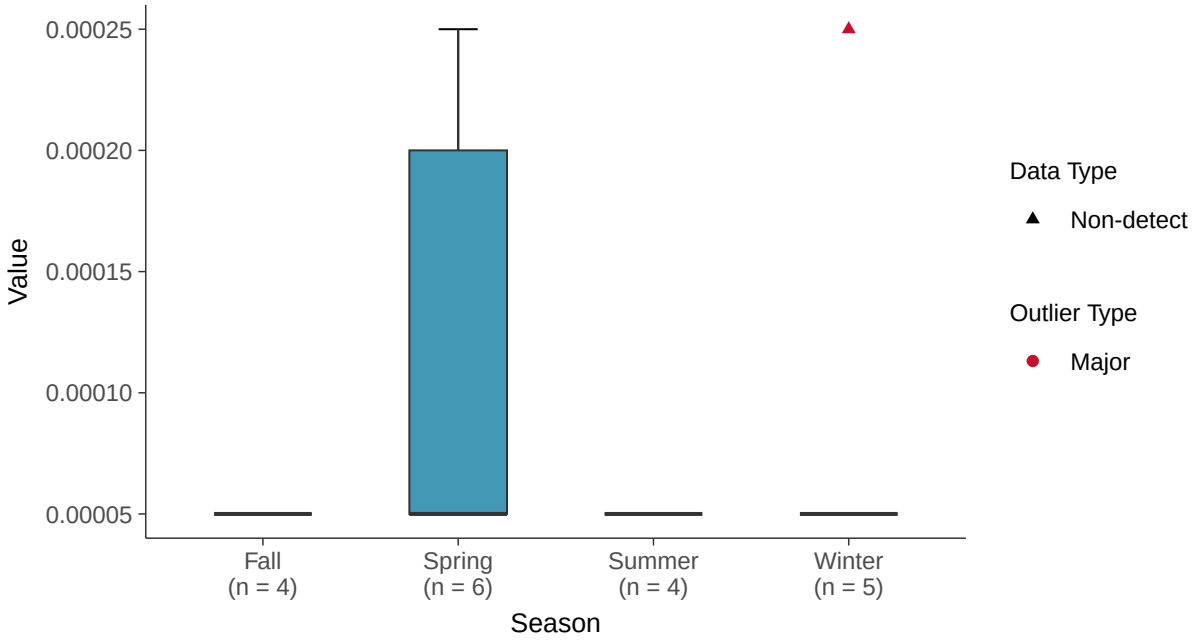
Boxplot

Silver, MW-09 (mg/L)



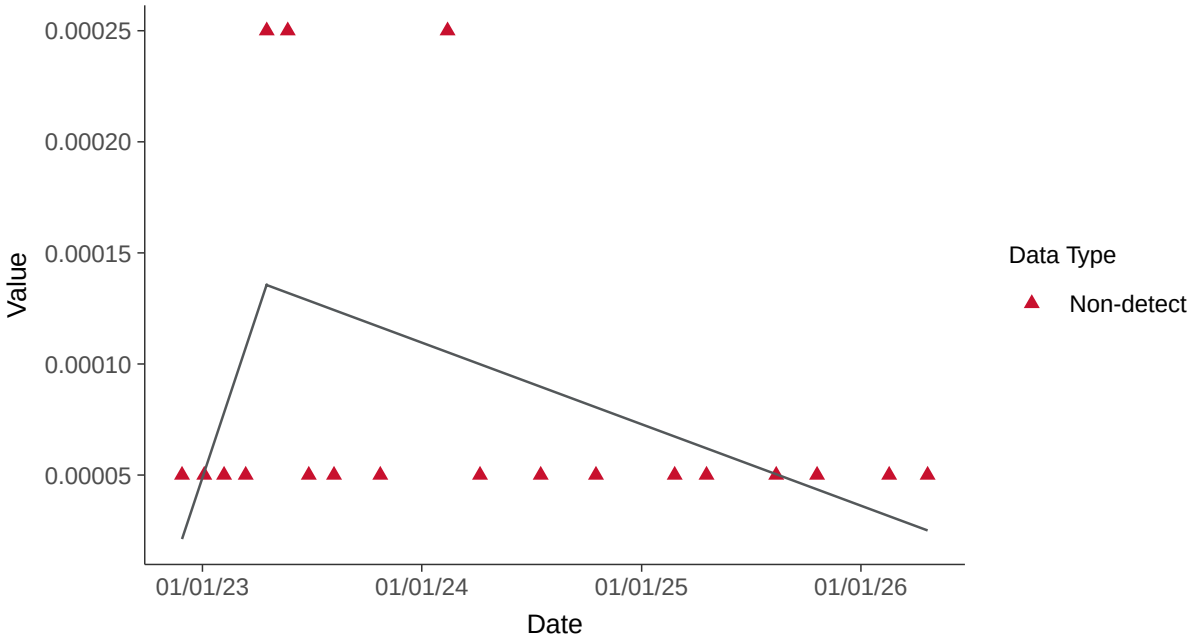
Boxplot by Season

Silver, MW-09 (mg/L)



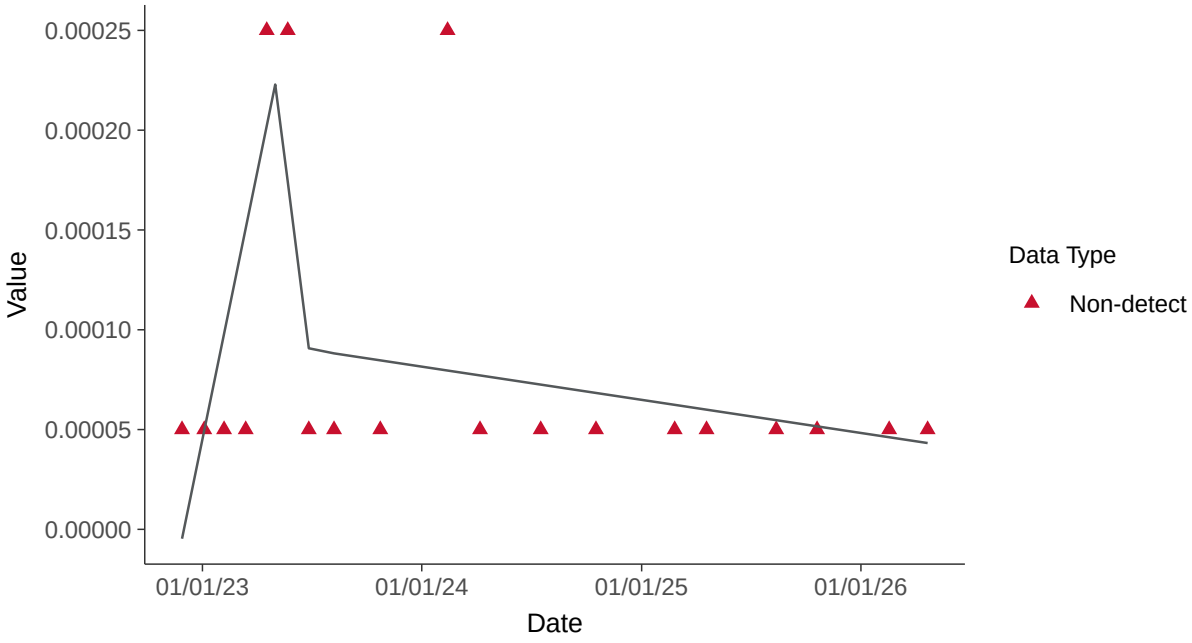
Trend Regression: Piecewise Linear-Linear

Silver, MW-09 (mg/L)



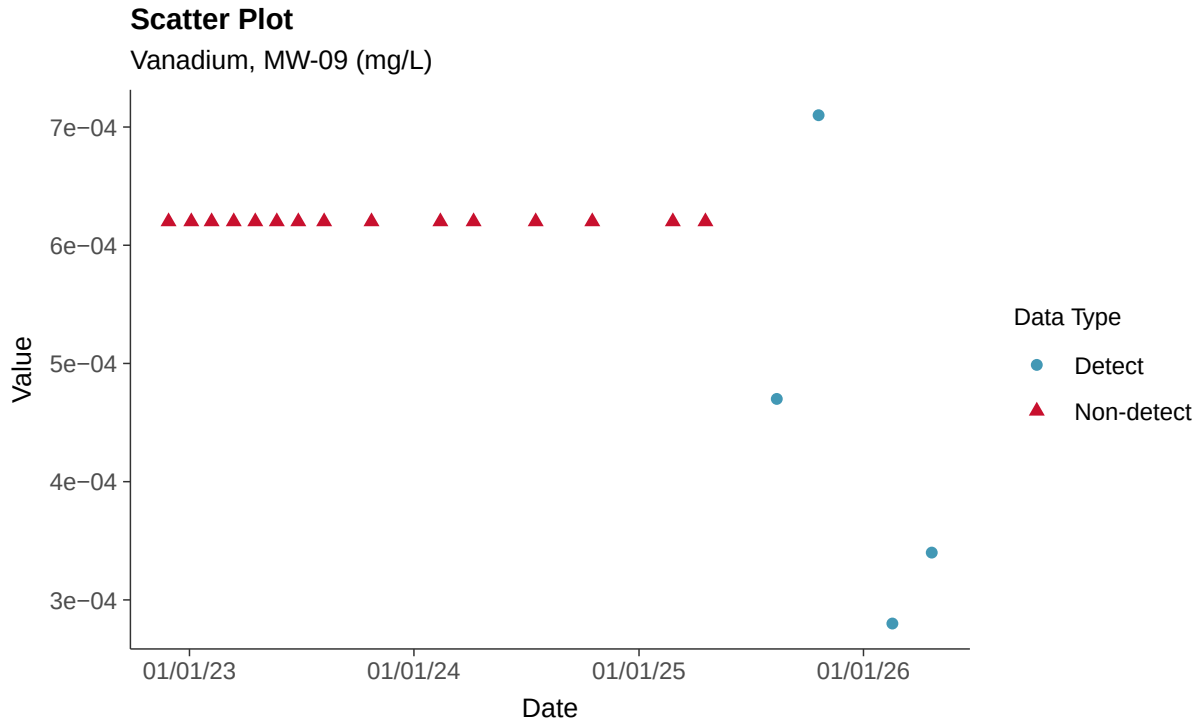
Trend Regression: Piecewise Linear-Linear-Linear

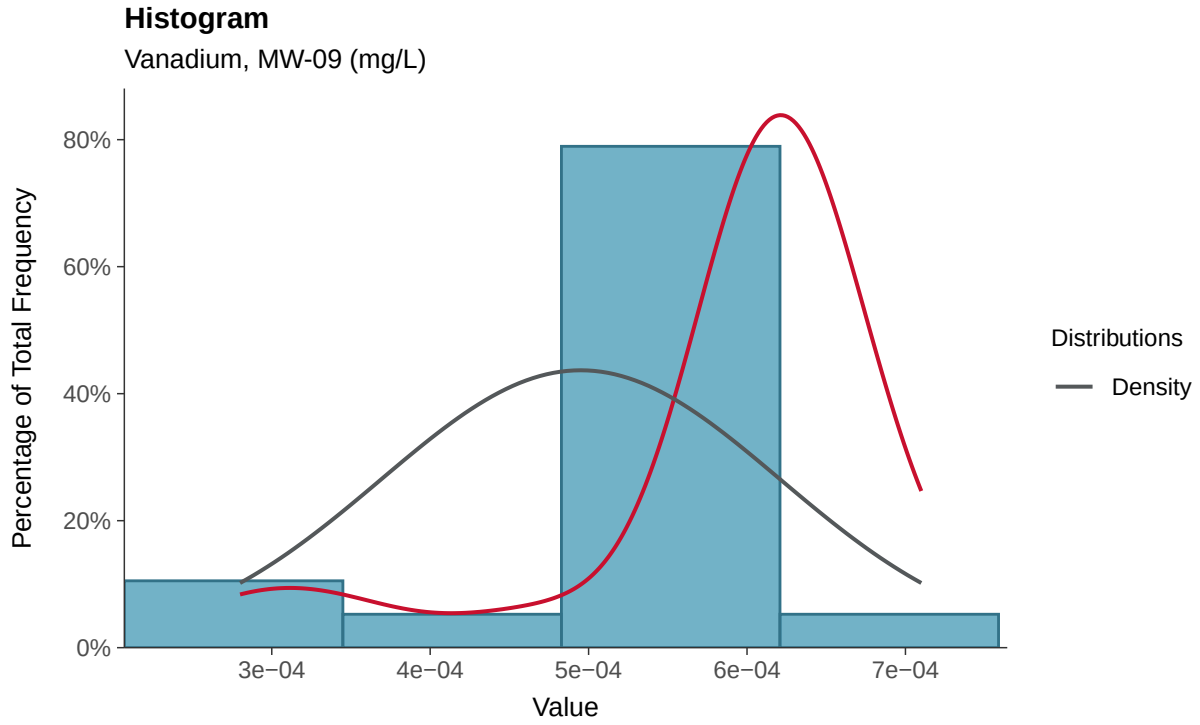
Silver, MW-09 (mg/L)



Part 115: Vanadium, MW-09

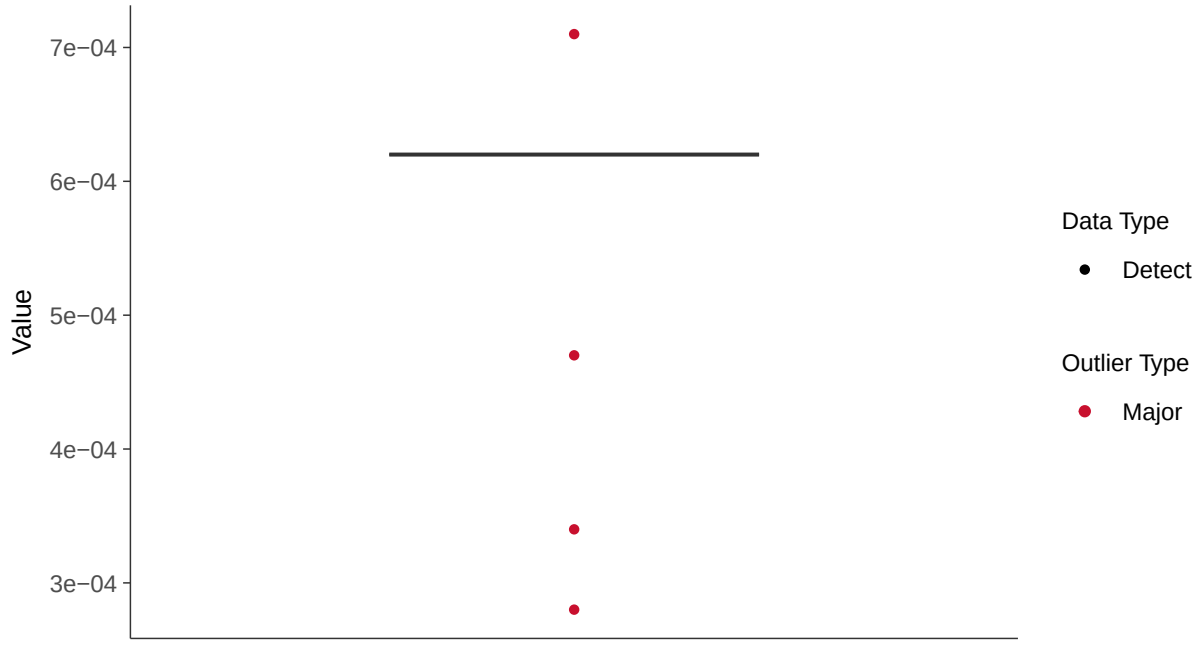
ID: 19_2_5_128





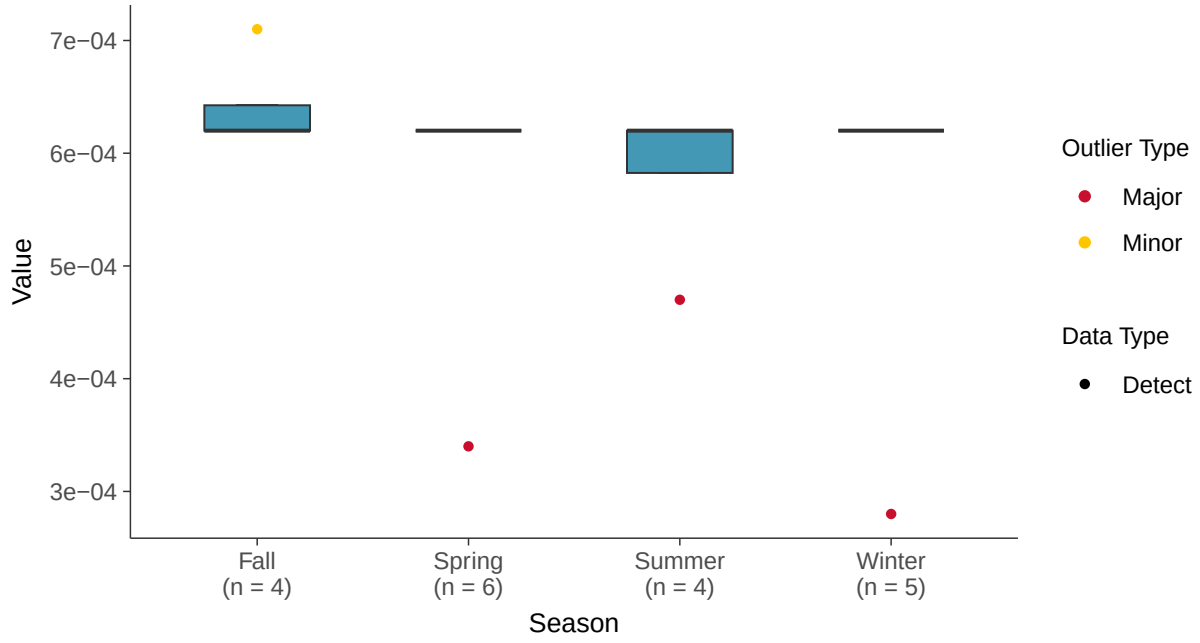
Boxplot

Vanadium, MW-09 (mg/L)



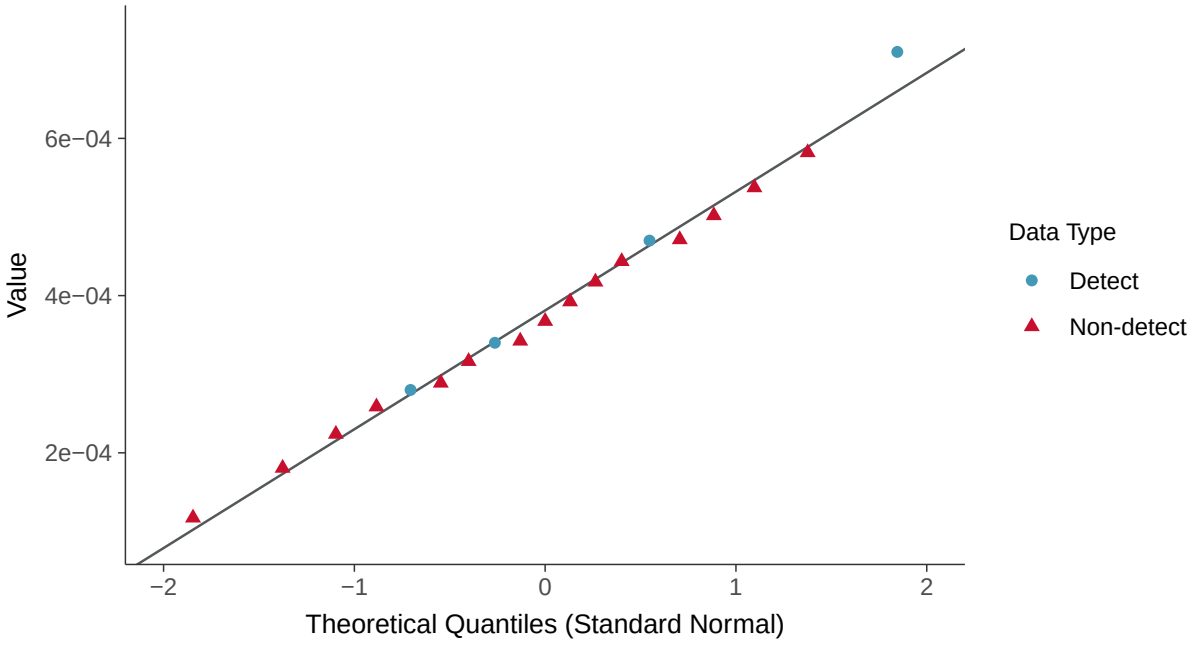
Boxplot by Season

Vanadium, MW-09 (mg/L)



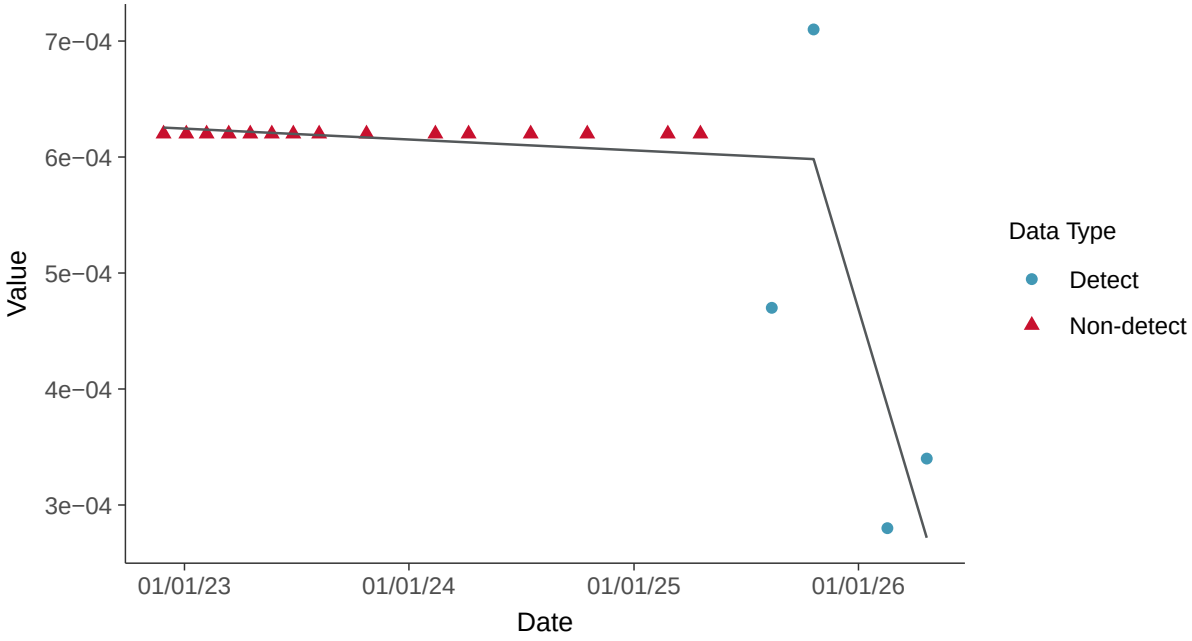
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-09 (mg/L)



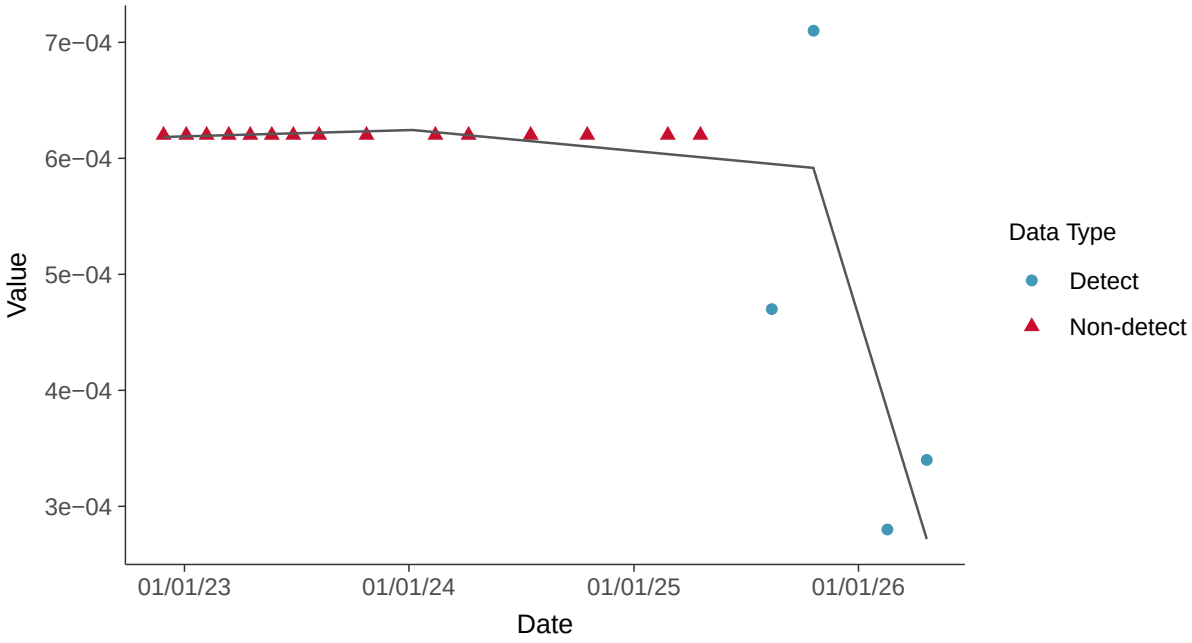
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-09 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-09 (mg/L)

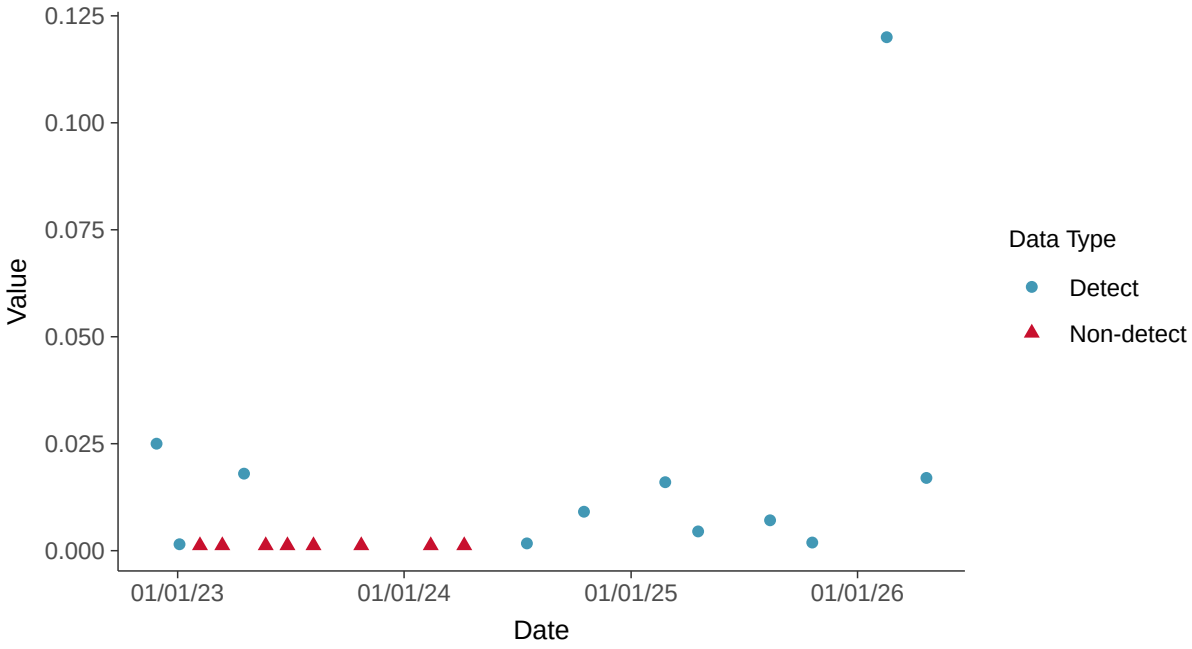


Part 115: Zinc, MW-09

ID: 19_2_5_129

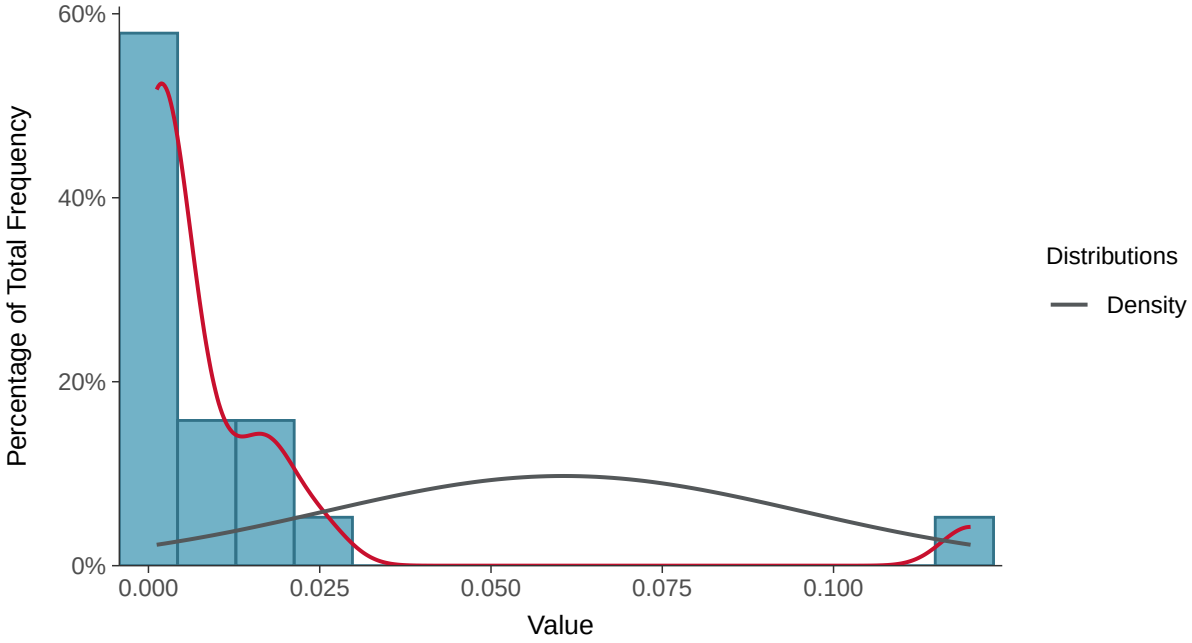
Scatter Plot

Zinc, MW-09 (mg/L)



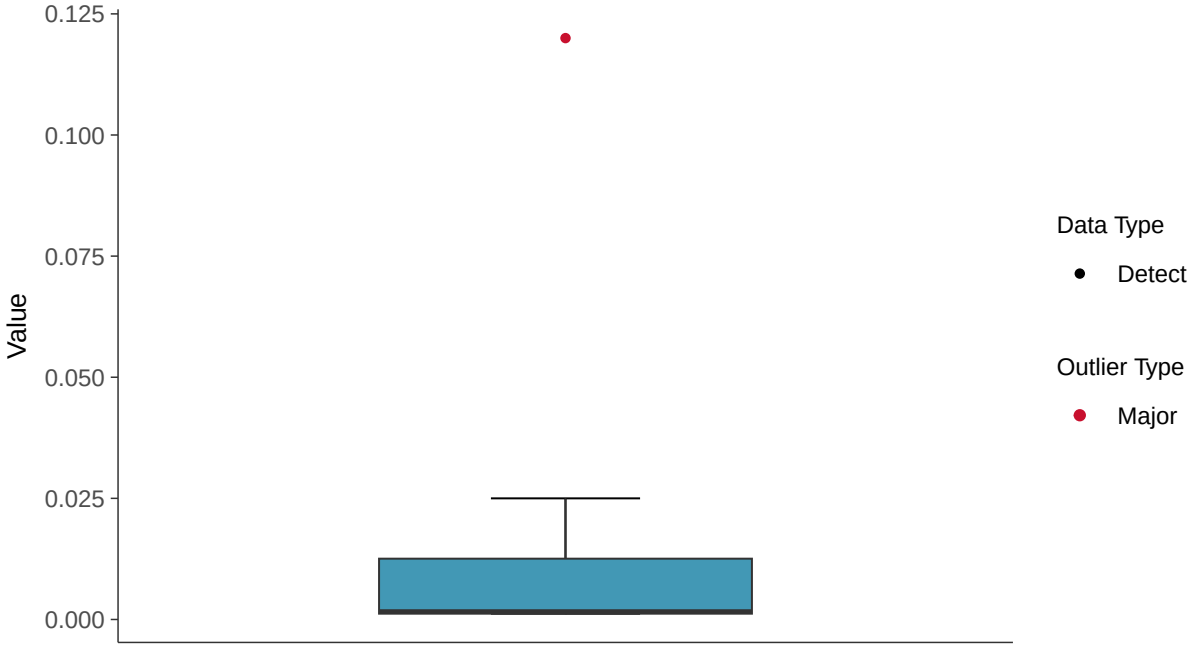
Histogram

Zinc, MW-09 (mg/L)



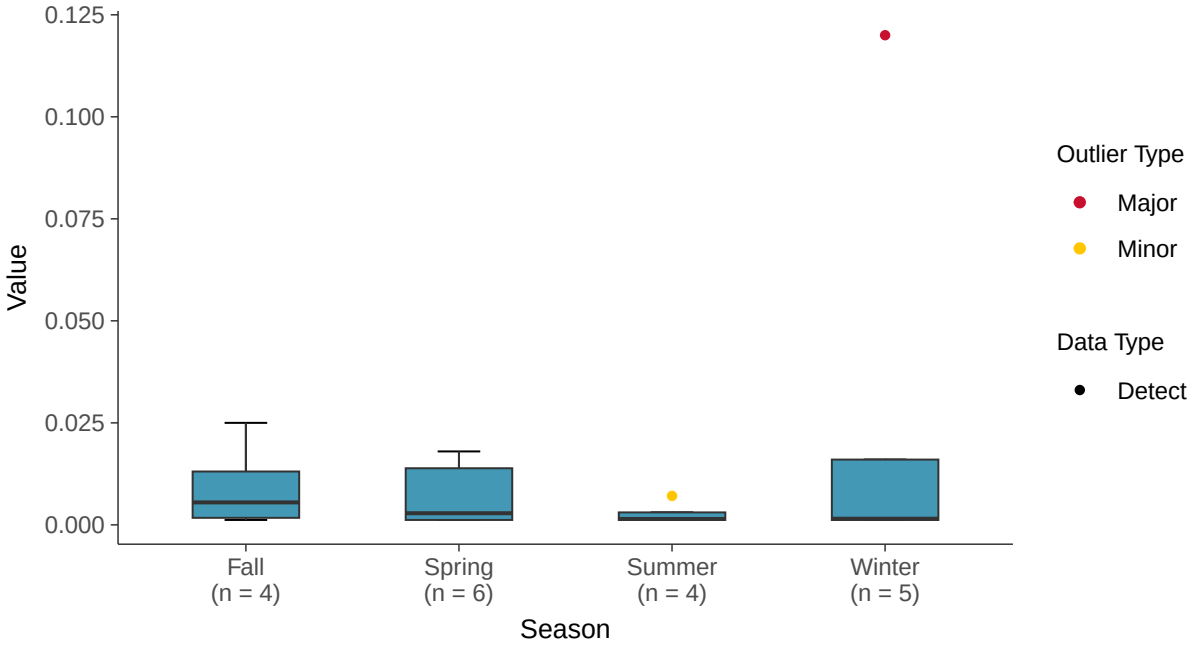
Boxplot

Zinc, MW-09 (mg/L)



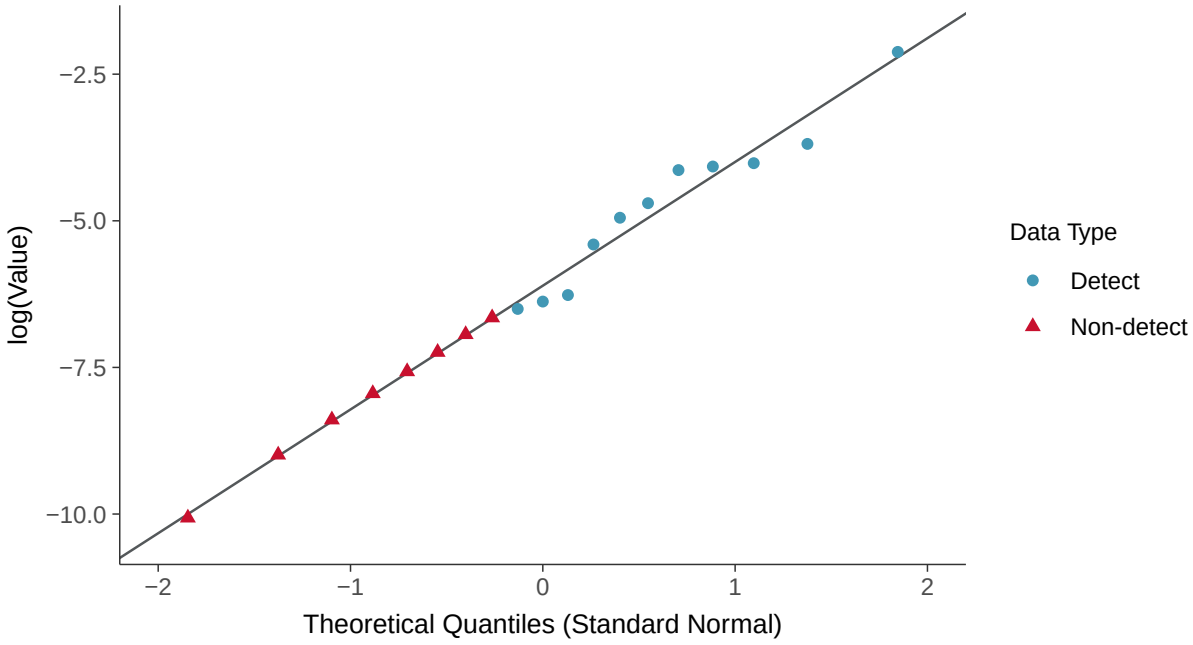
Boxplot by Season

Zinc, MW-09 (mg/L)



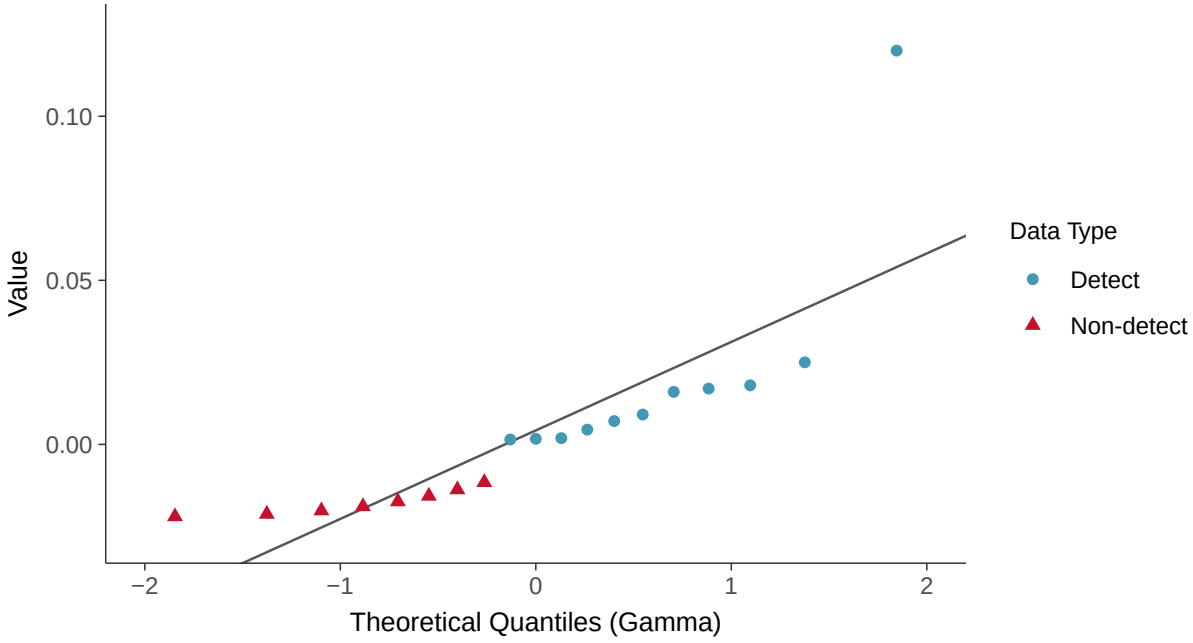
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-09 (mg/L)



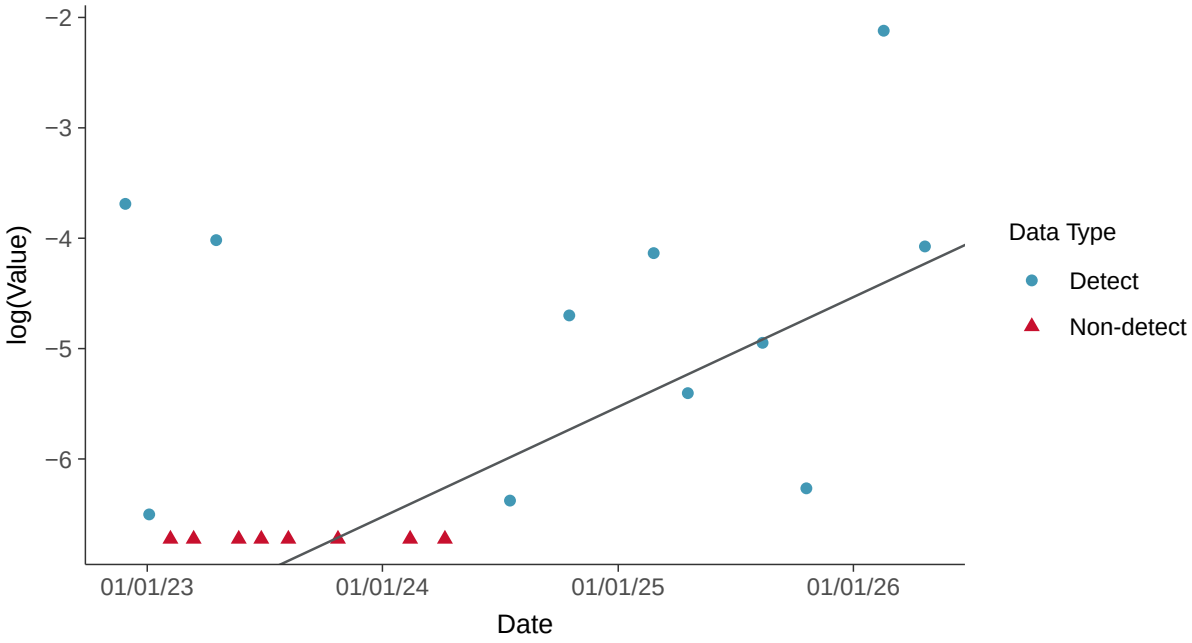
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-09 (mg/L)



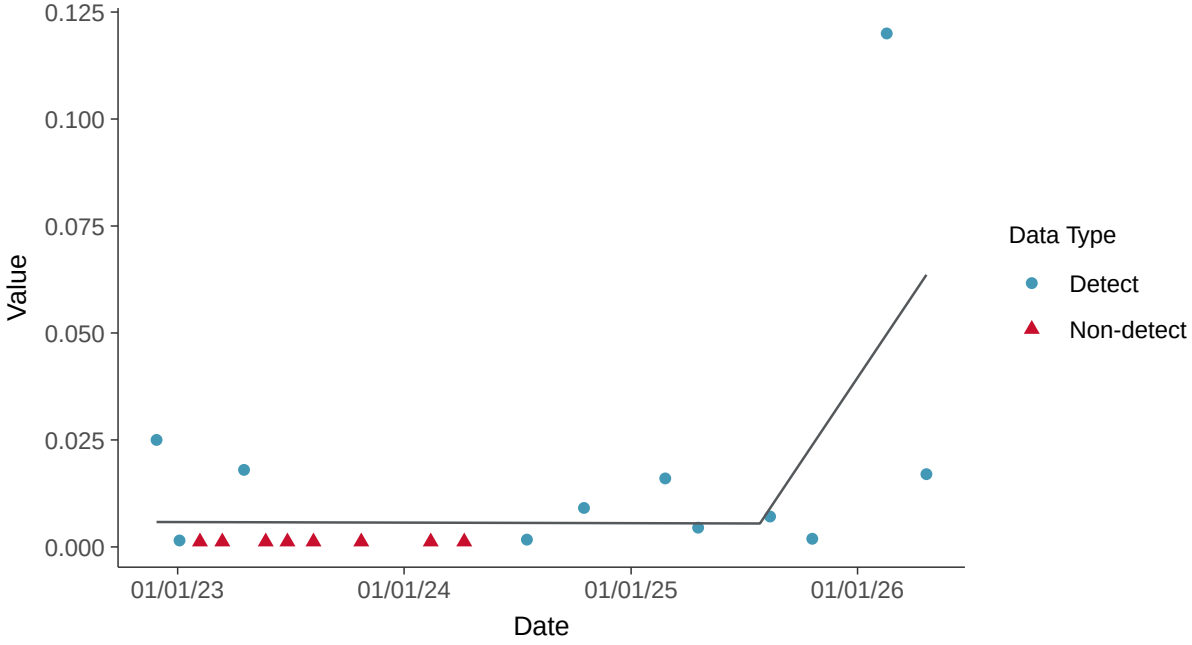
Trend Regression: Lognormal MLE

Zinc, MW-09 (mg/L)



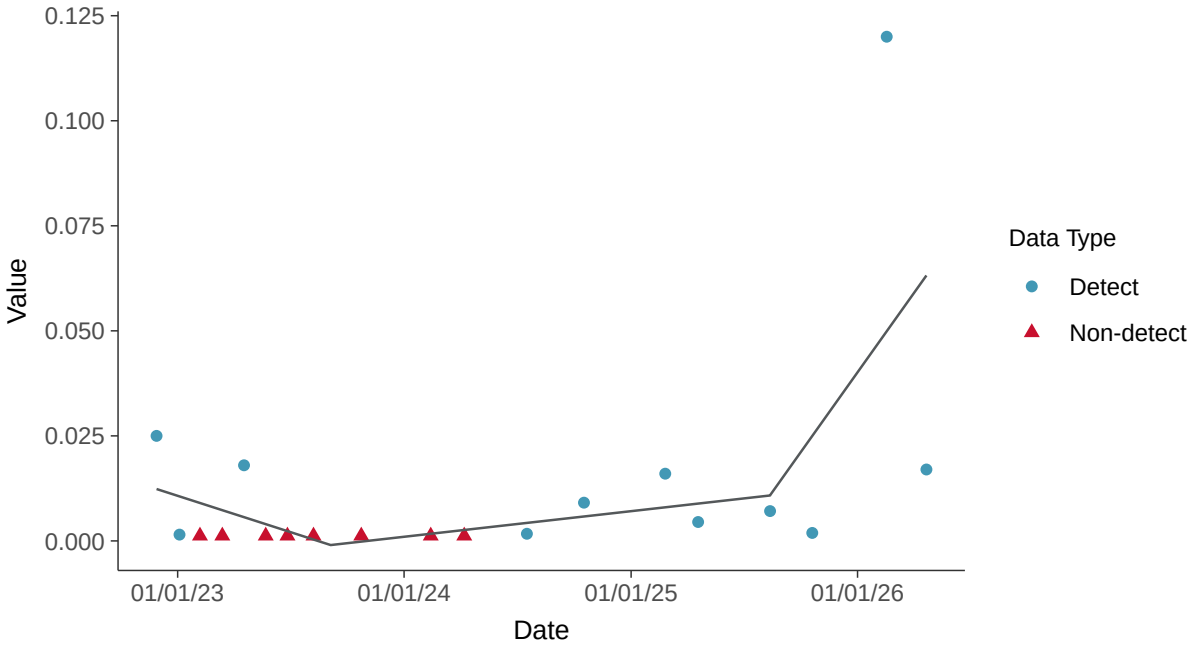
Trend Regression: Piecewise Linear-Linear

Zinc, MW-09 (mg/L)



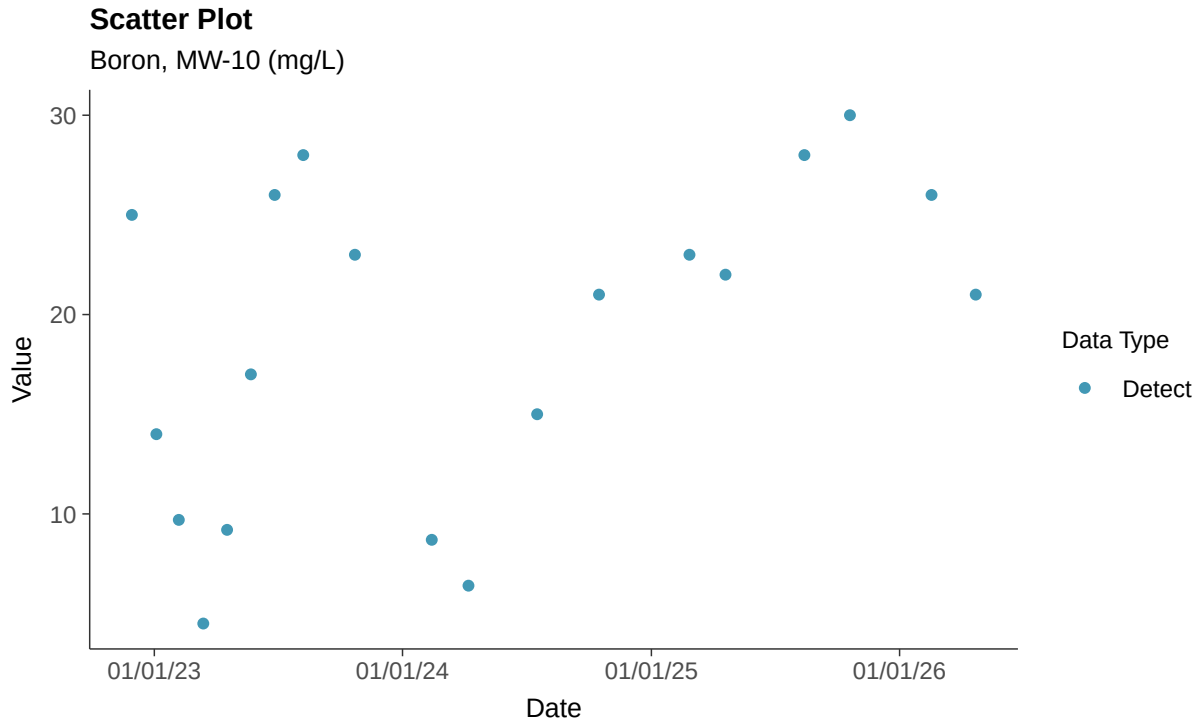
Trend Regression: Piecewise Linear-Linear-Linear

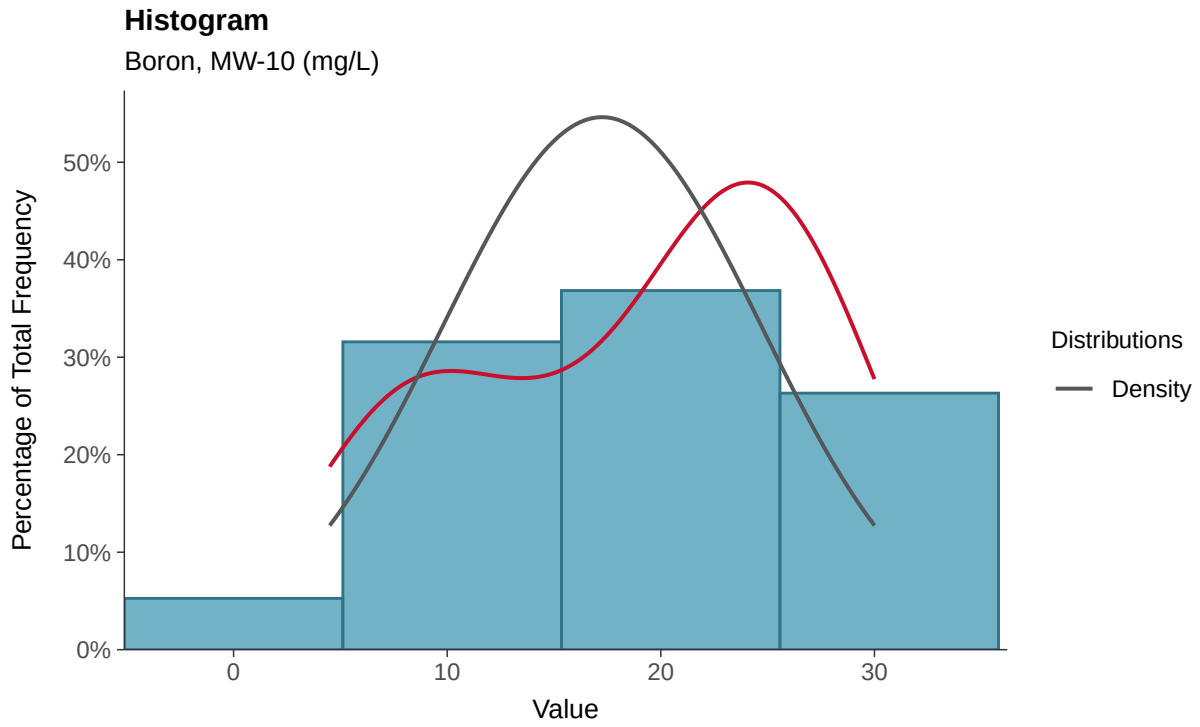
Zinc, MW-09 (mg/L)



Appendix III: Boron, MW-10

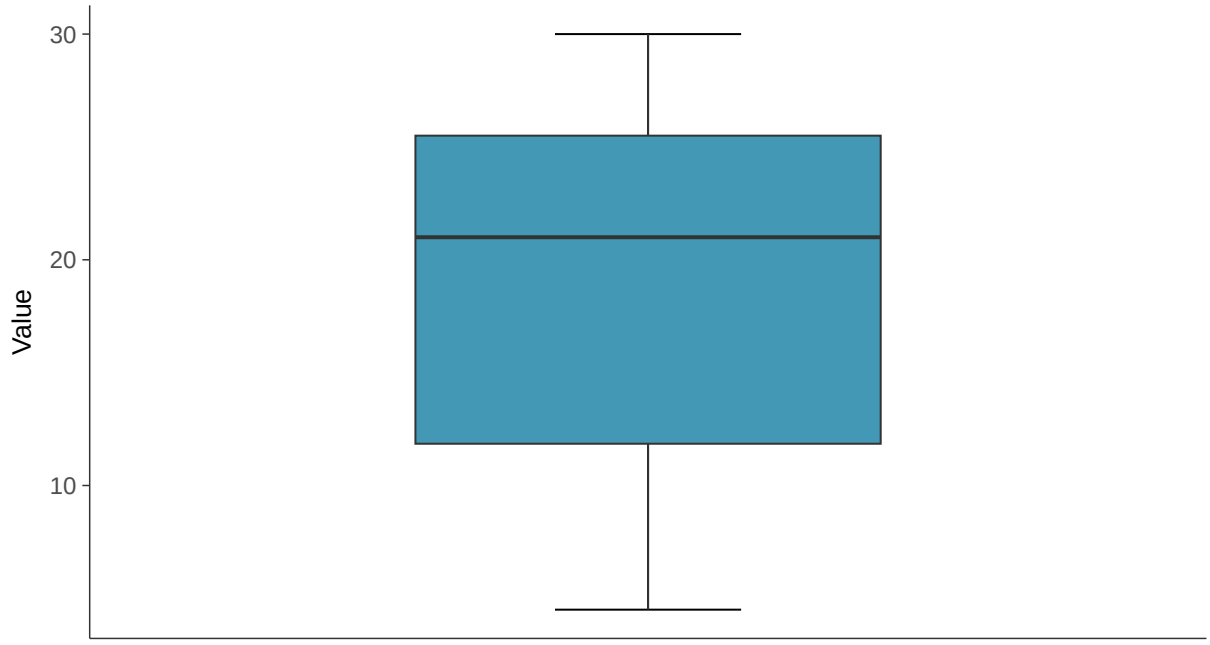
ID: 20_3_3_105





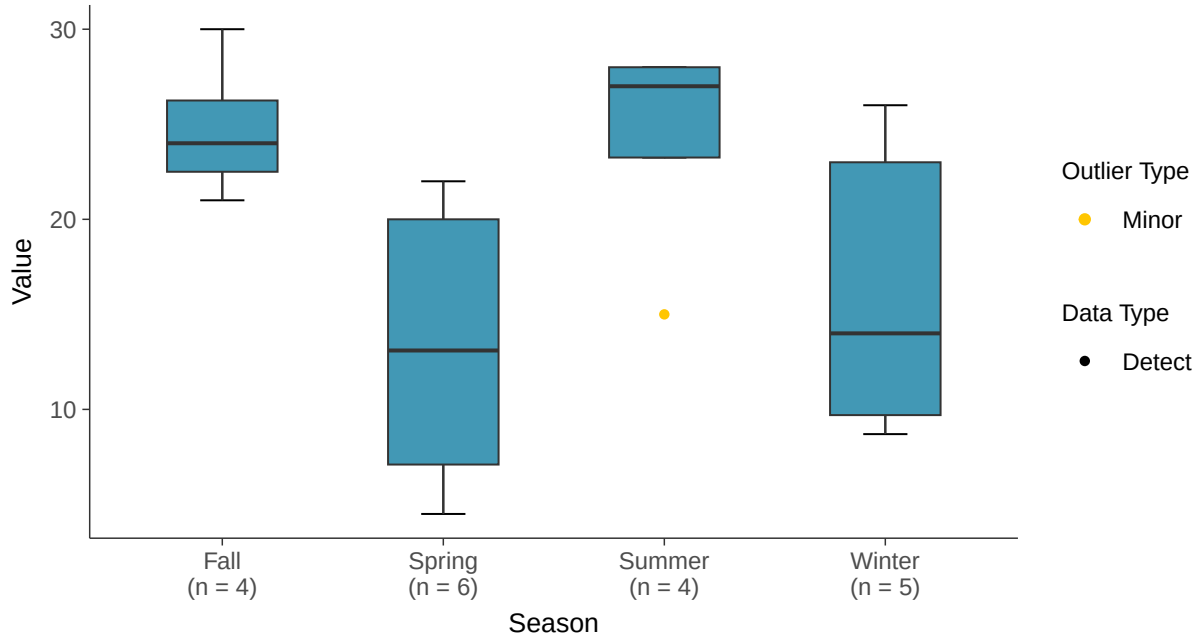
Boxplot

Boron, MW-10 (mg/L)



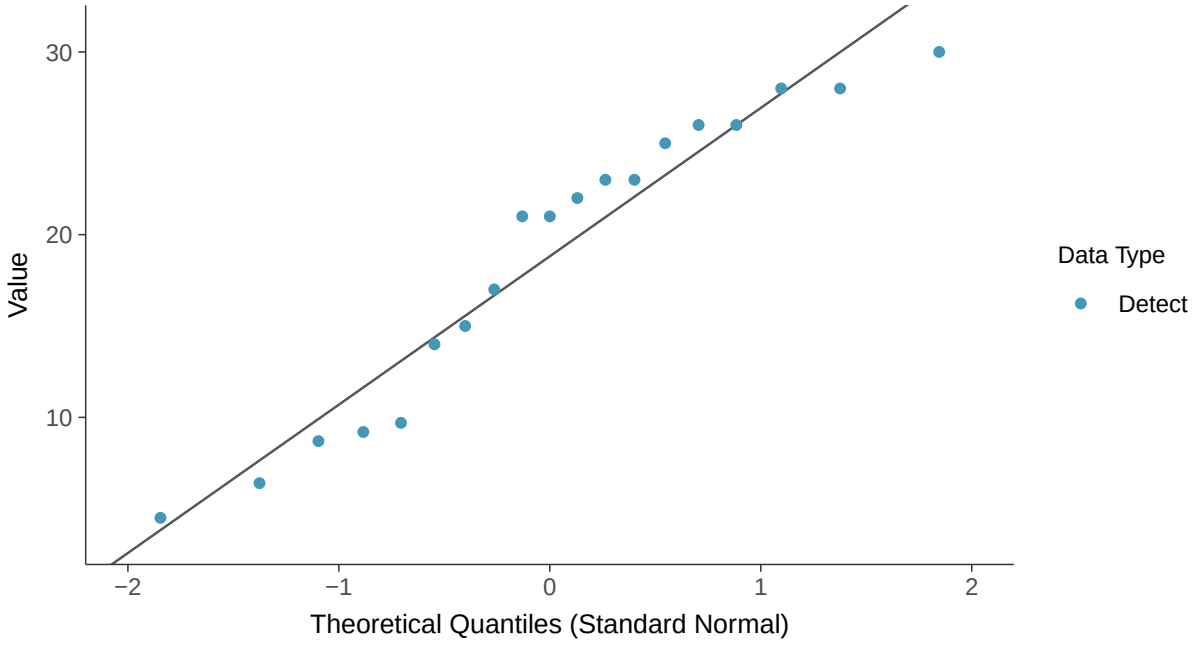
Boxplot by Season

Boron, MW-10 (mg/L)



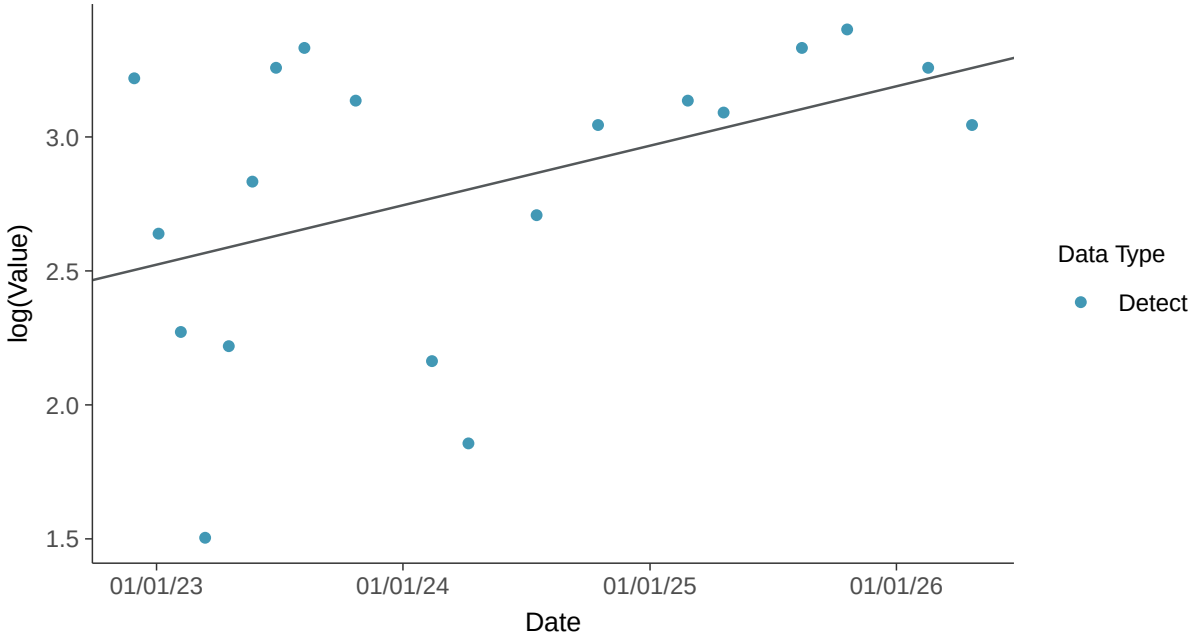
Normal Q-Q plot

Boron, MW-10 (mg/L)



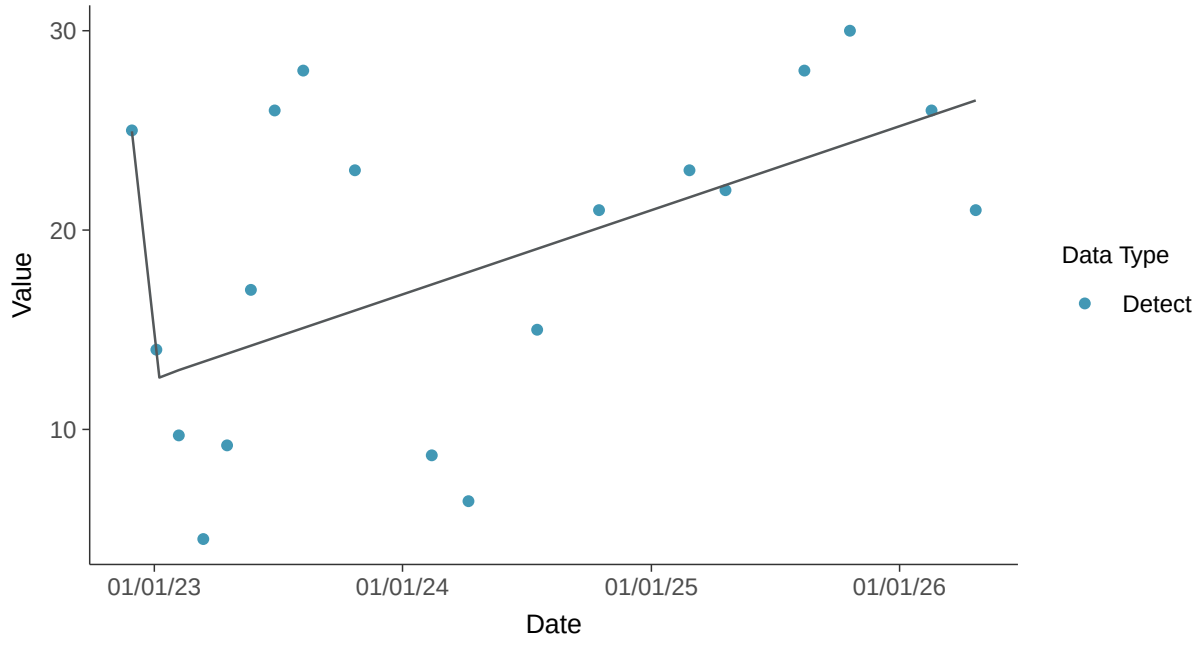
Trend Regression: Lognormal MLE

Boron, MW-10 (mg/L)



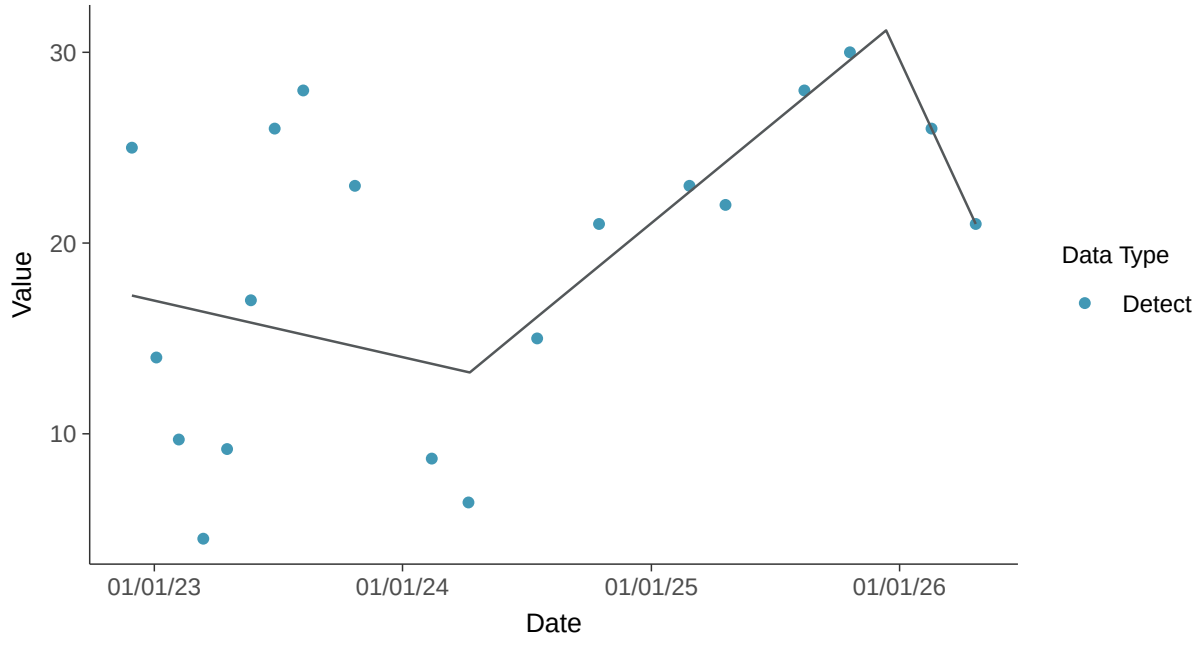
Trend Regression: Piecewise Linear-Linear

Boron, MW-10 (mg/L)



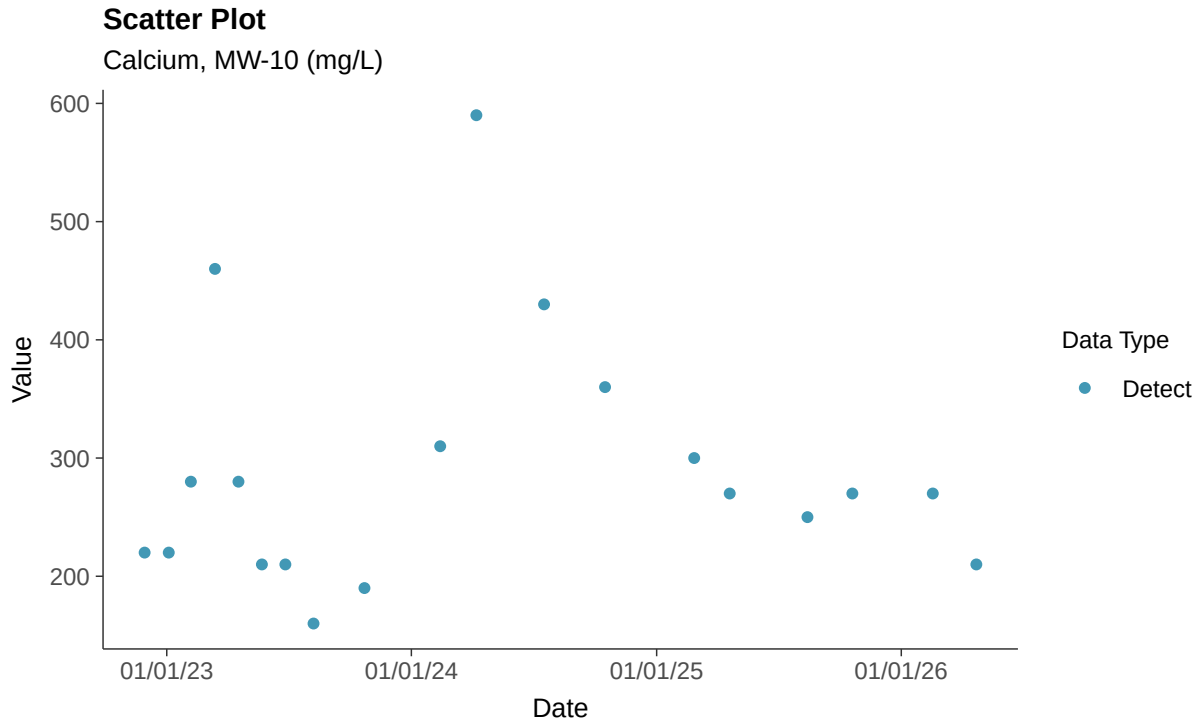
Trend Regression: Piecewise Linear-Linear-Linear

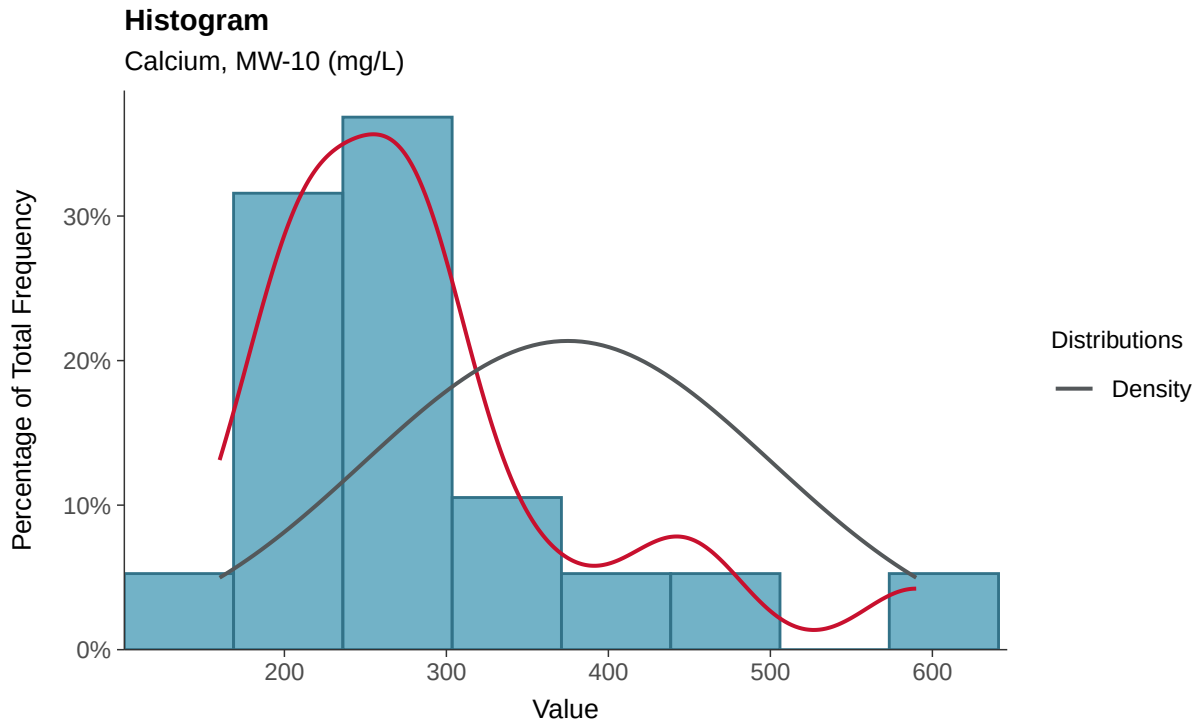
Boron, MW-10 (mg/L)



Appendix III: Calcium, MW-10

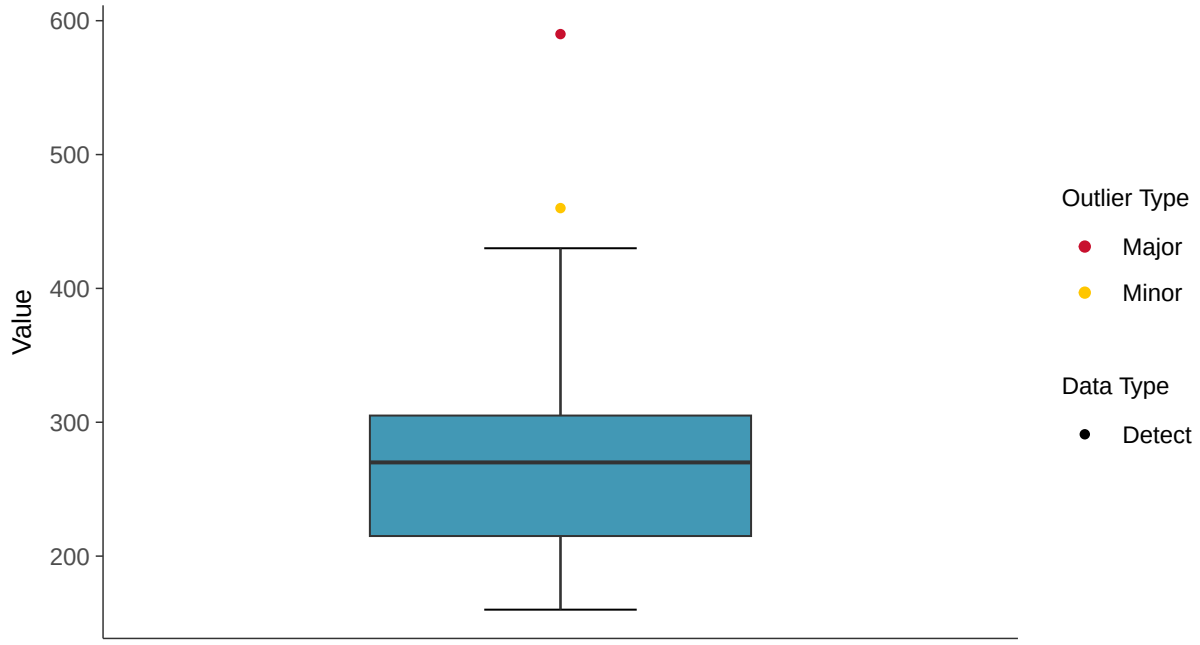
ID: 20_3_3_107





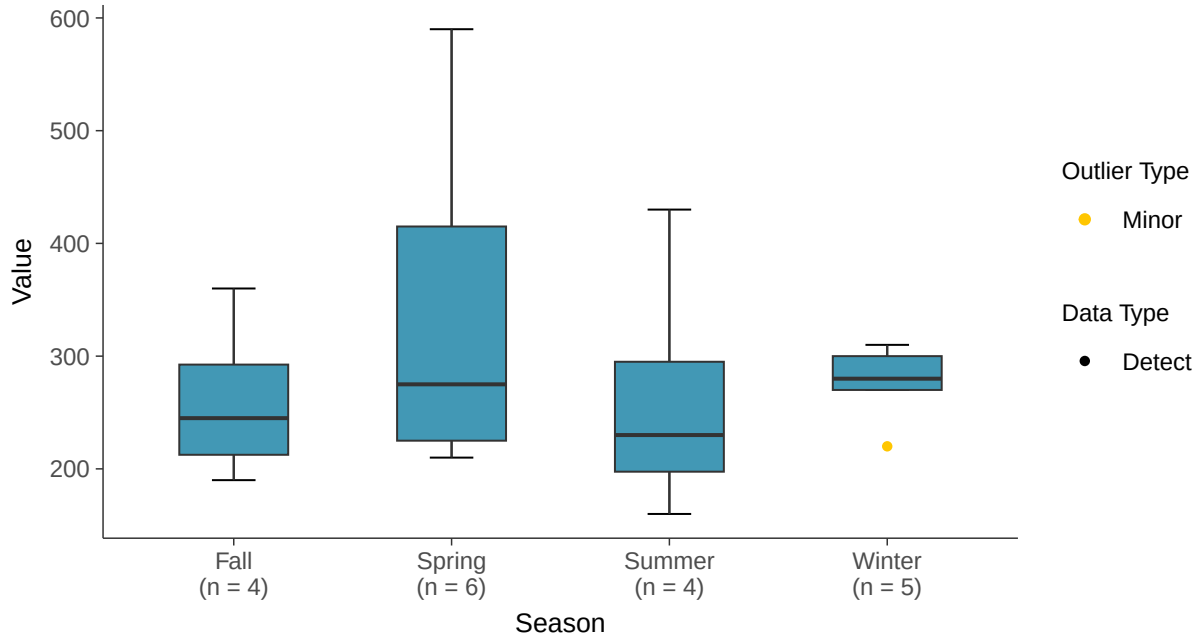
Boxplot

Calcium, MW-10 (mg/L)



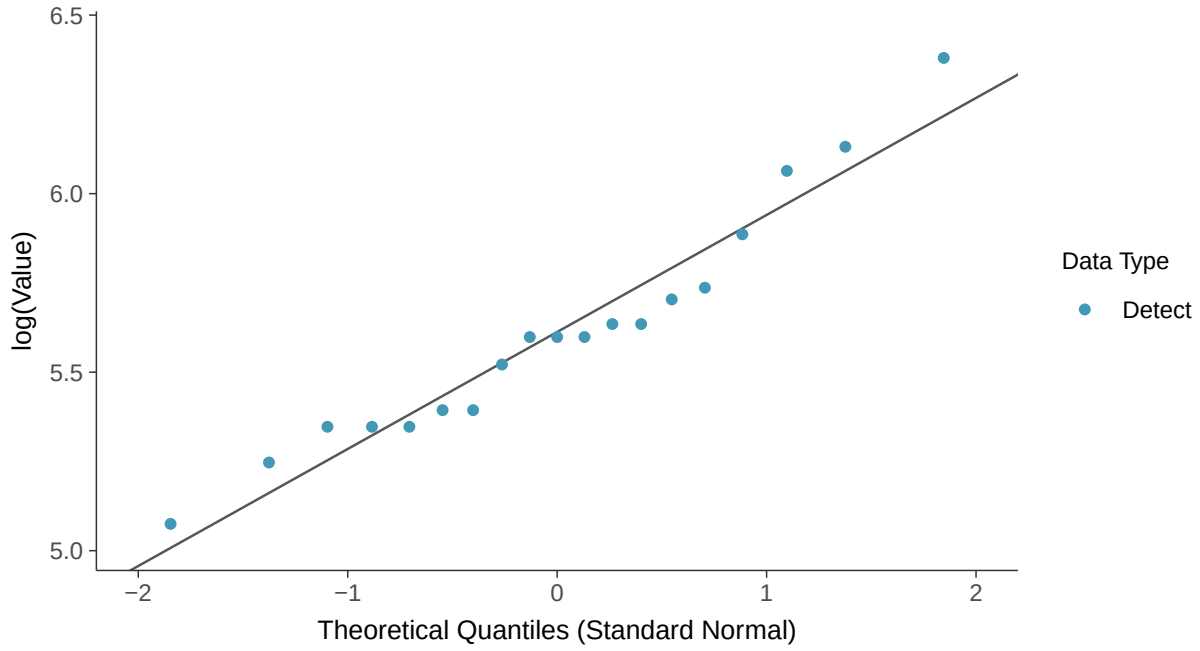
Boxplot by Season

Calcium, MW-10 (mg/L)



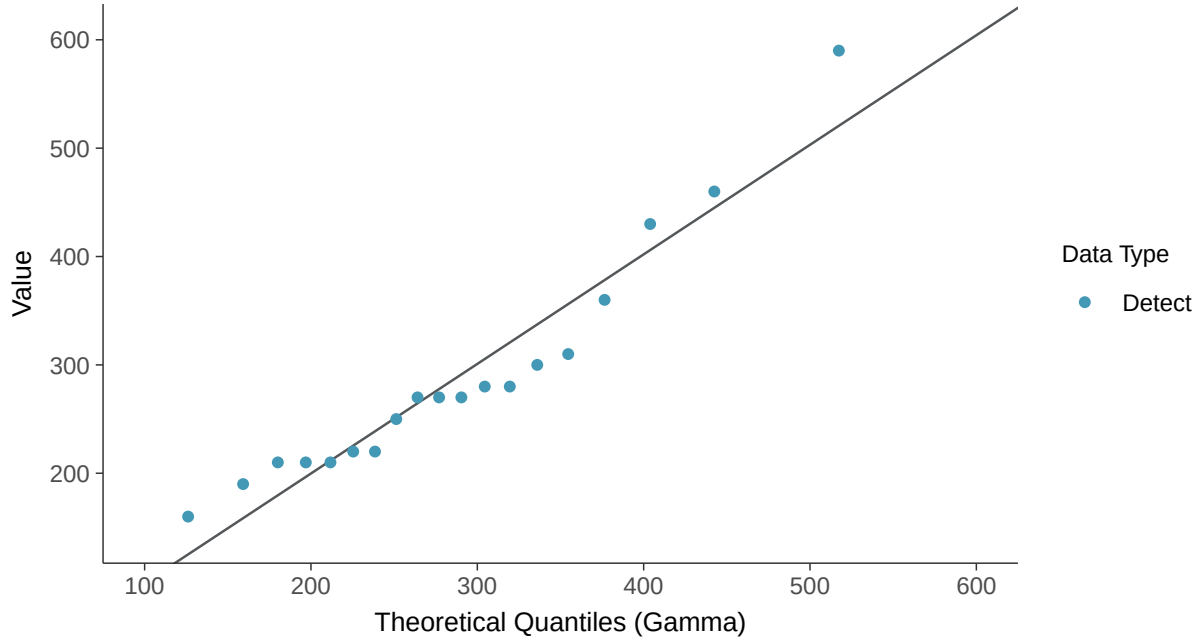
Lognormal Q-Q plot

Calcium, MW-10 (mg/L)



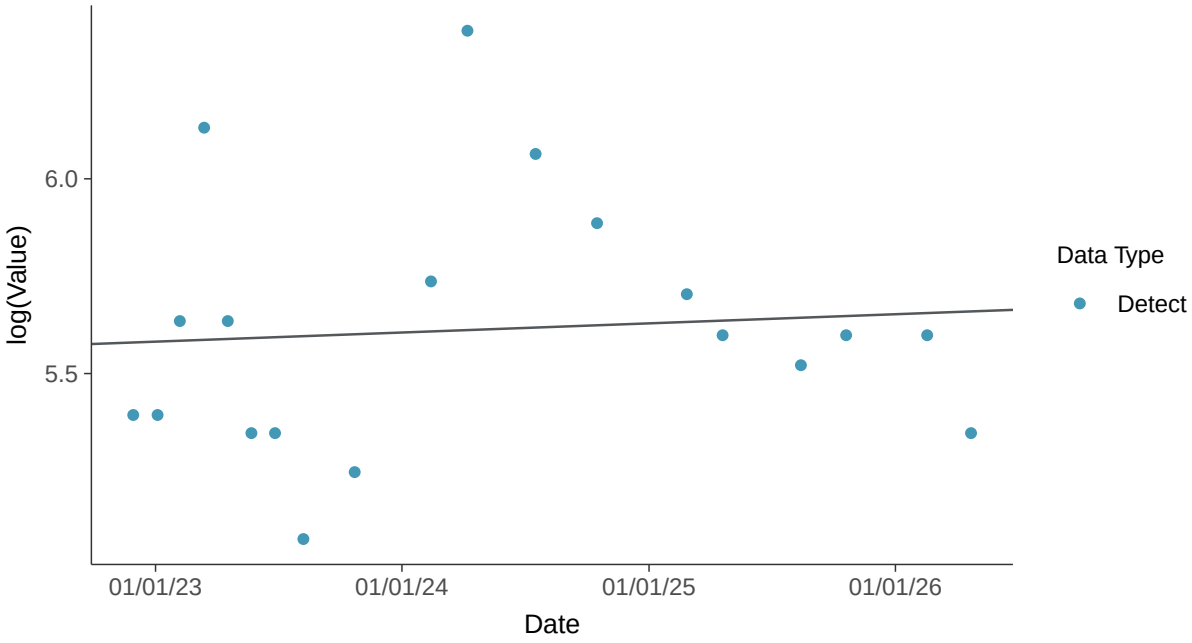
Gamma Q-Q plot

Calcium, MW-10 (mg/L)



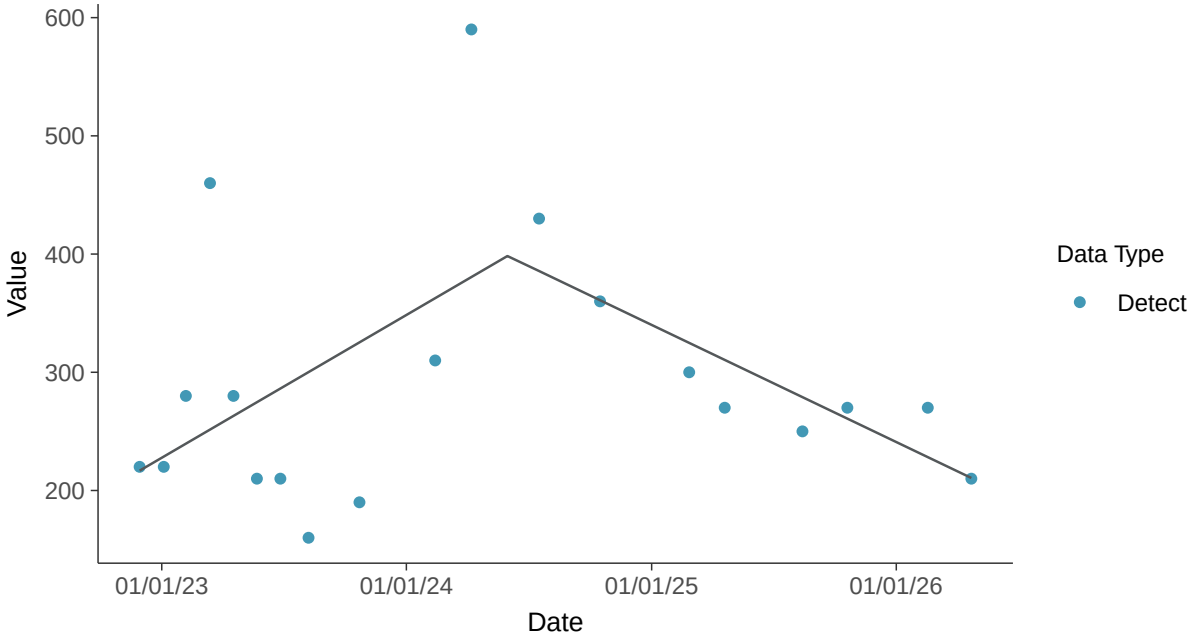
Trend Regression: Lognormal MLE

Calcium, MW-10 (mg/L)



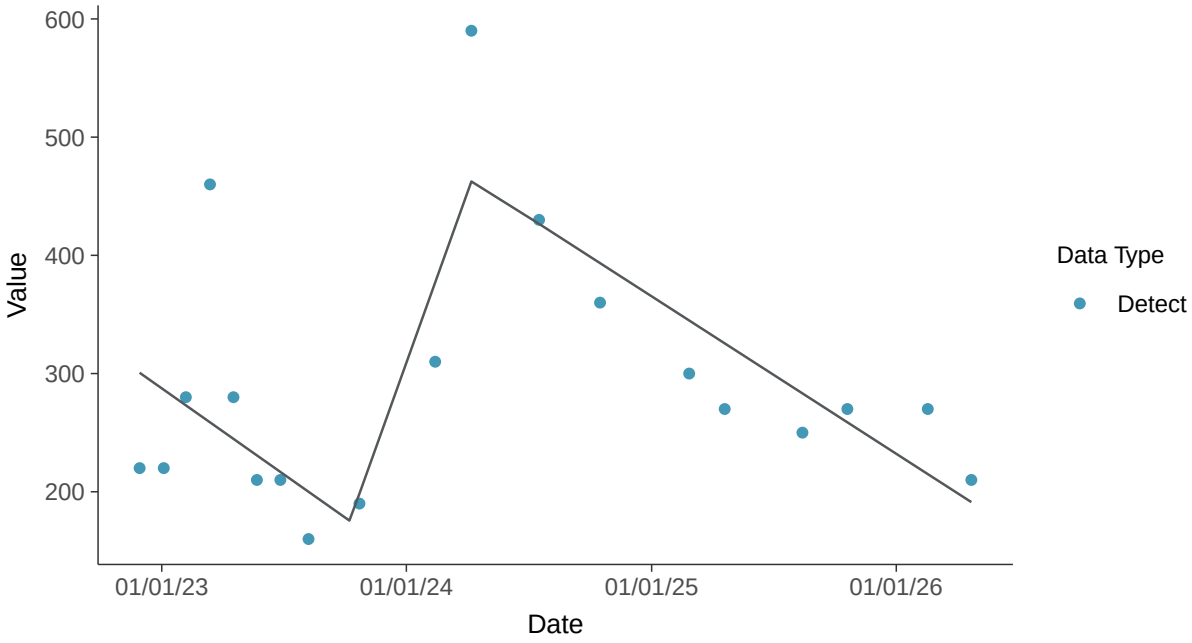
Trend Regression: Piecewise Linear-Linear

Calcium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-10 (mg/L)

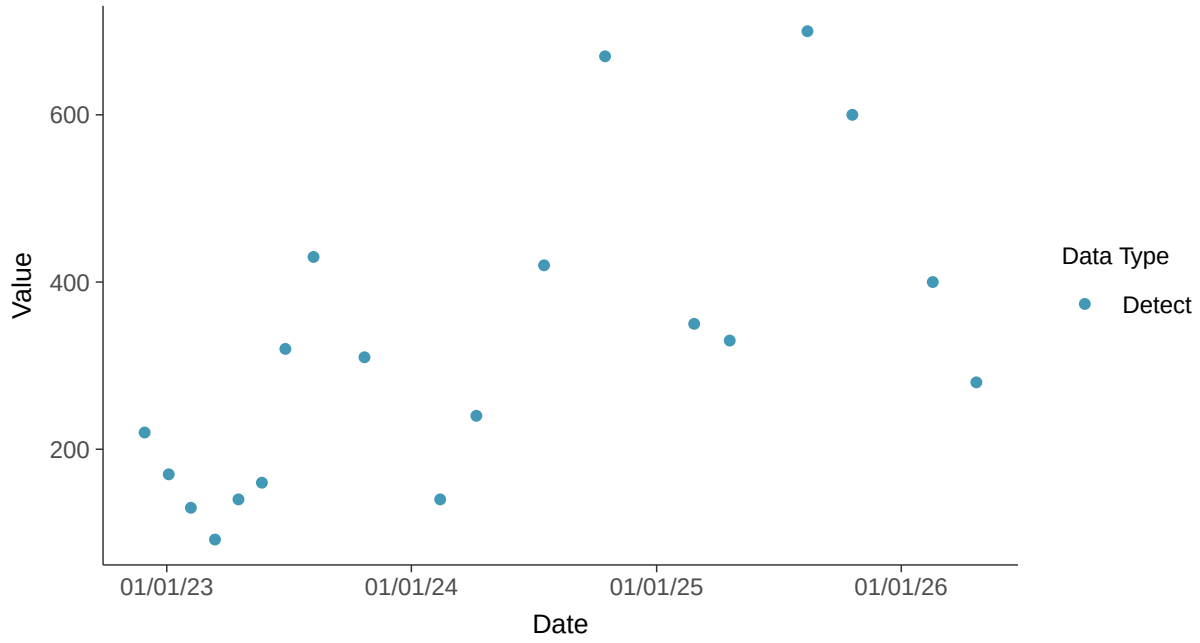


Appendix III: Chloride (as Cl), MW-10

ID: 20_3_3_108

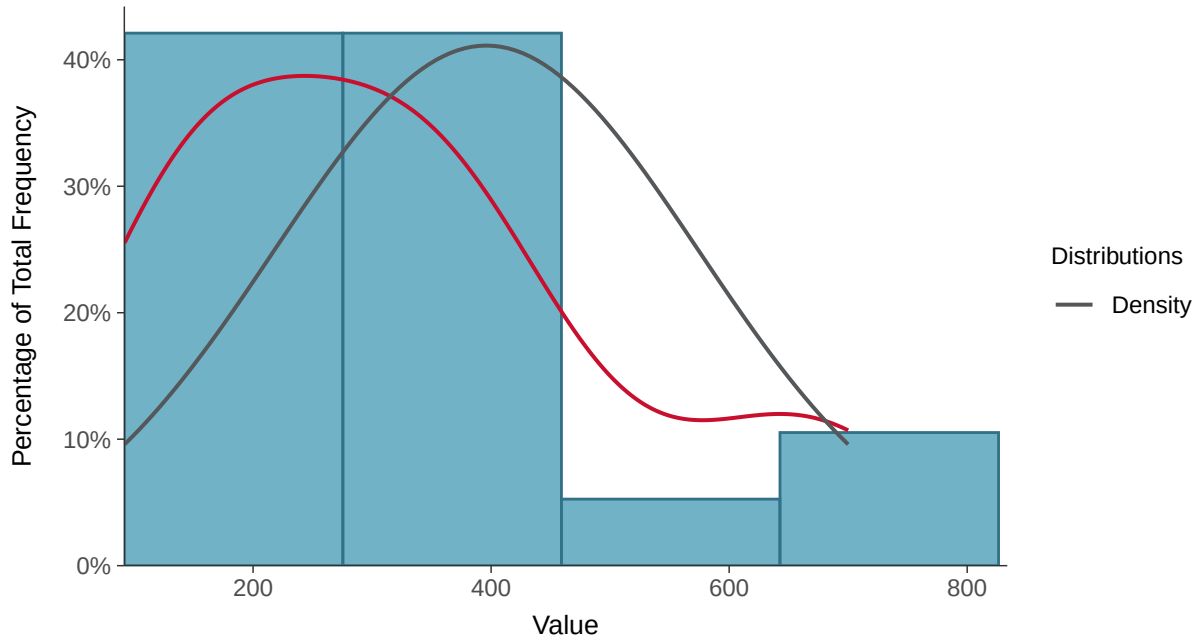
Scatter Plot

Chloride (as Cl), MW-10 (mg/L)



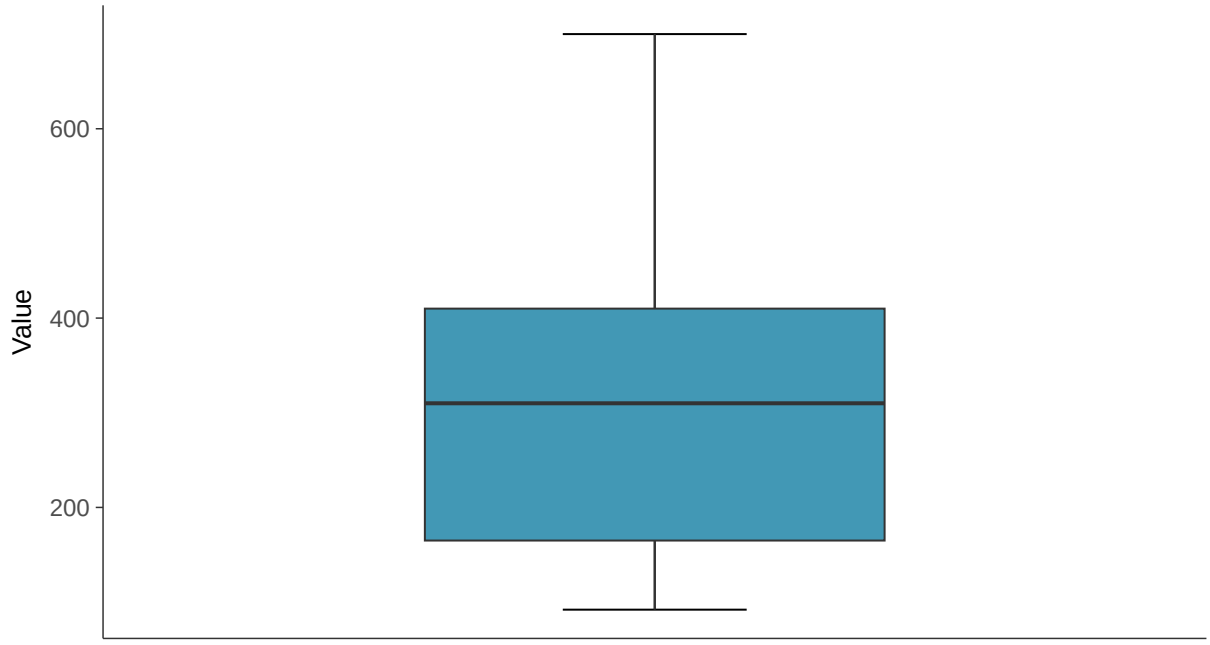
Histogram

Chloride (as Cl), MW-10 (mg/L)



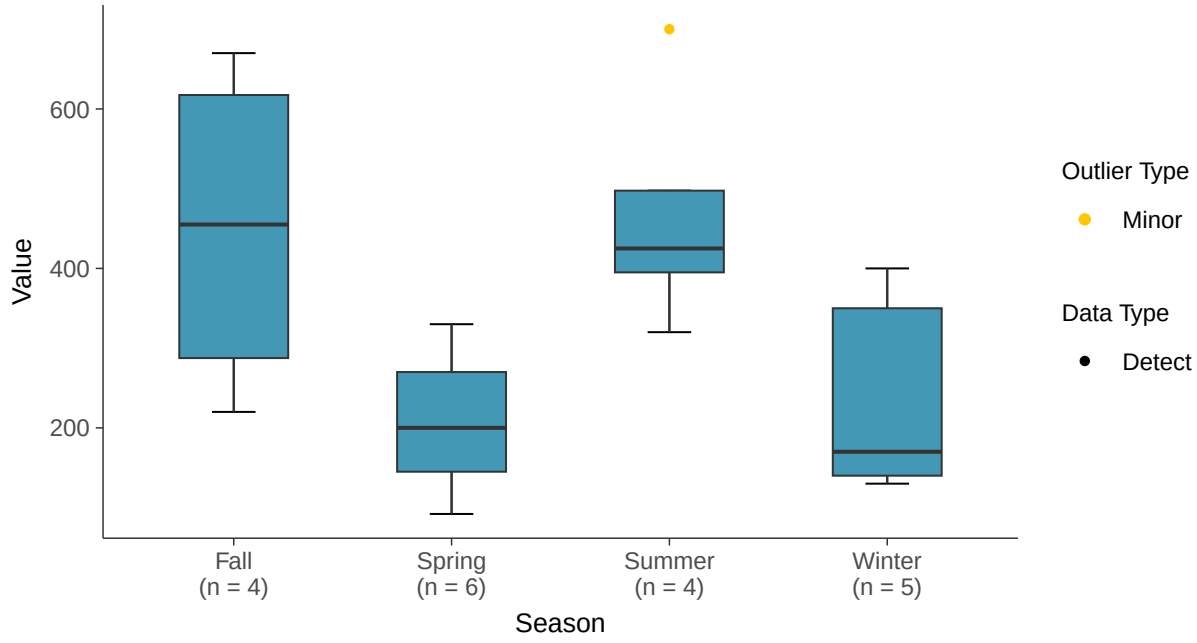
Boxplot

Chloride (as Cl), MW-10 (mg/L)



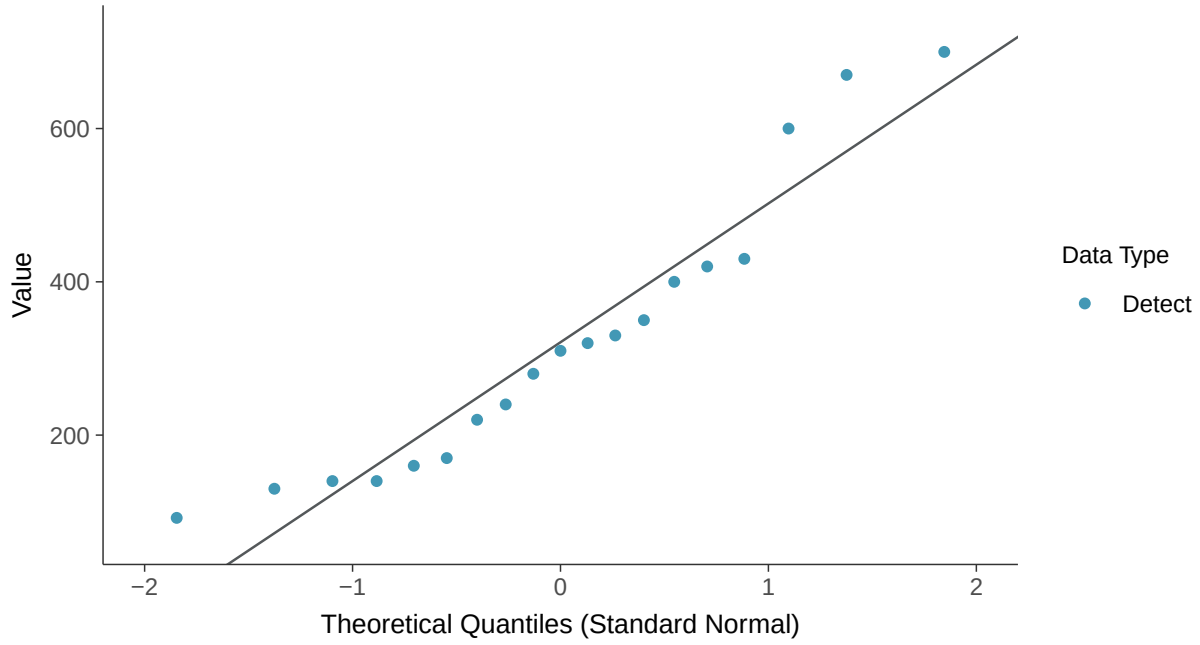
Boxplot by Season

Chloride (as Cl), MW-10 (mg/L)



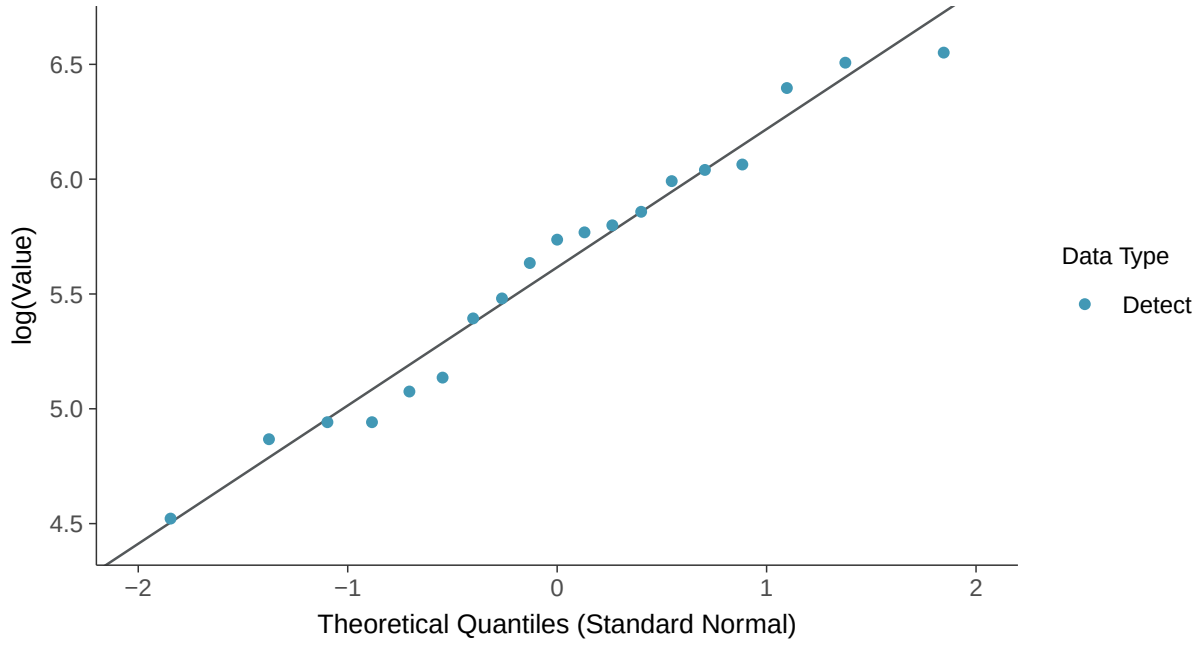
Normal Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



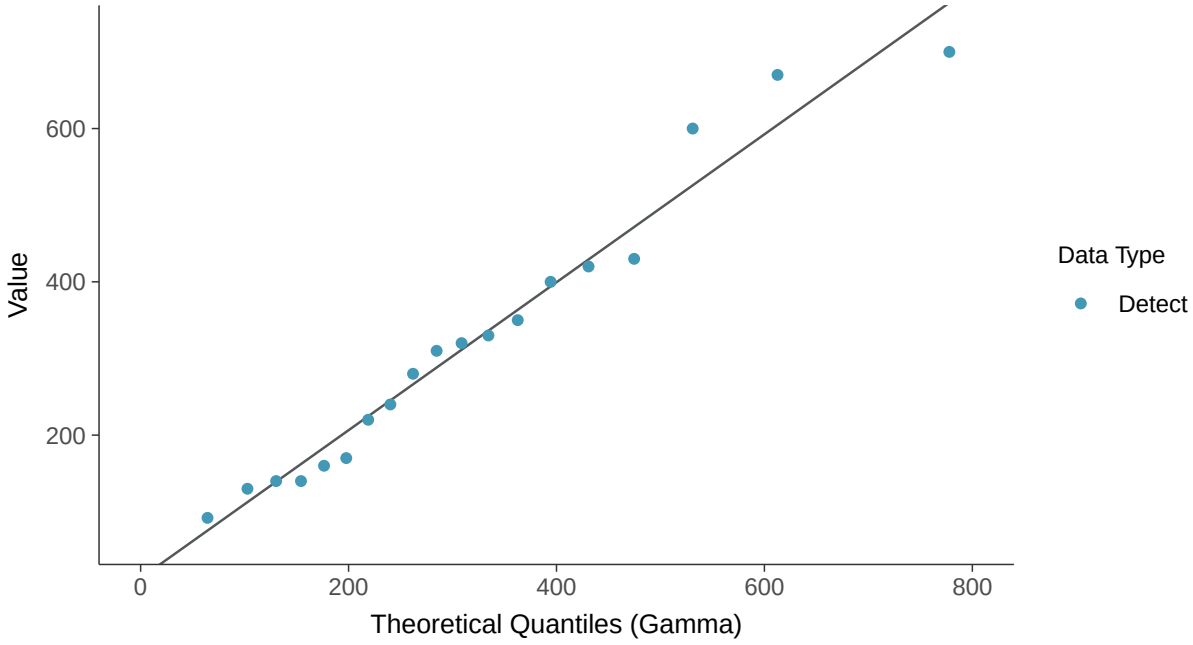
Lognormal Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



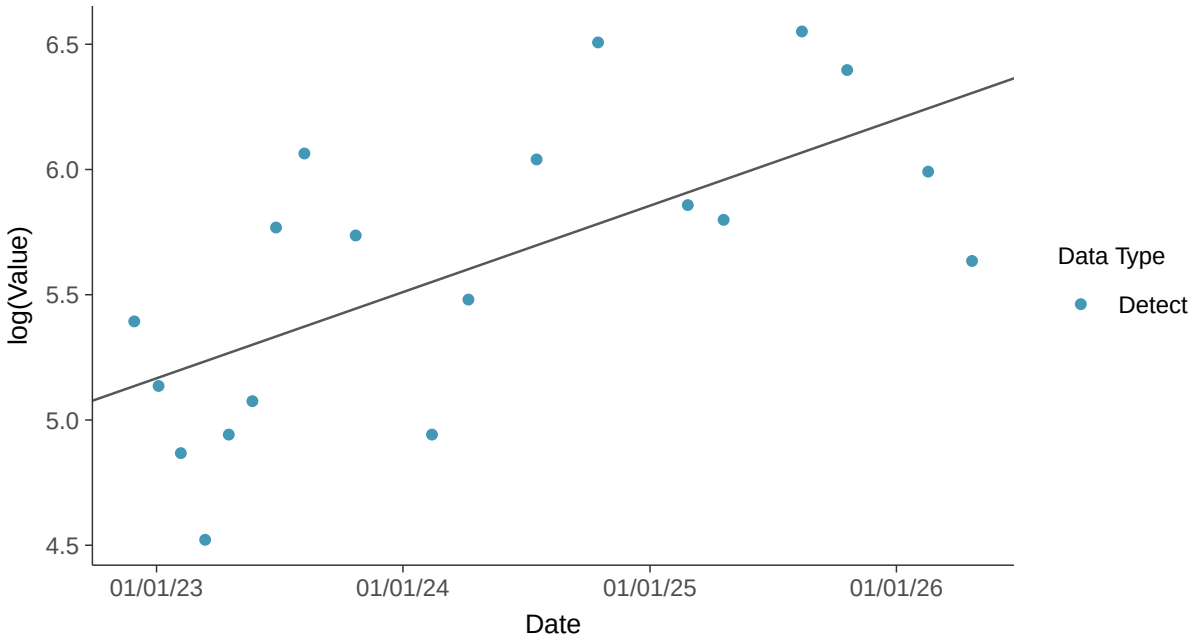
Gamma Q-Q plot

Chloride (as Cl), MW-10 (mg/L)



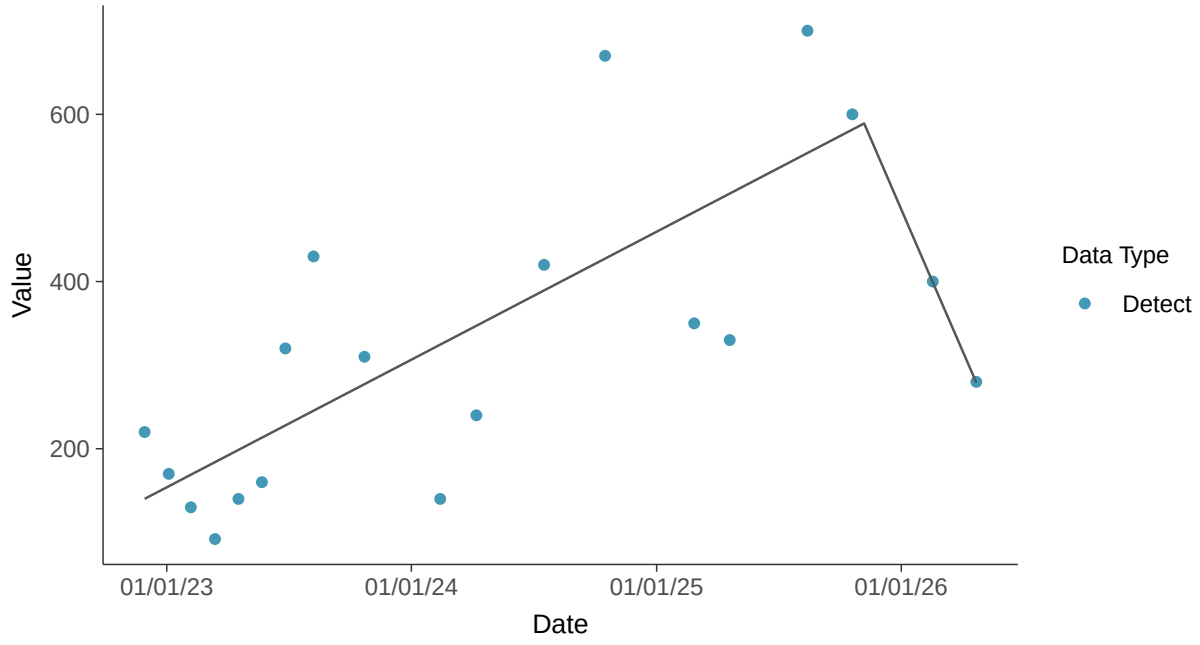
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-10 (mg/L)



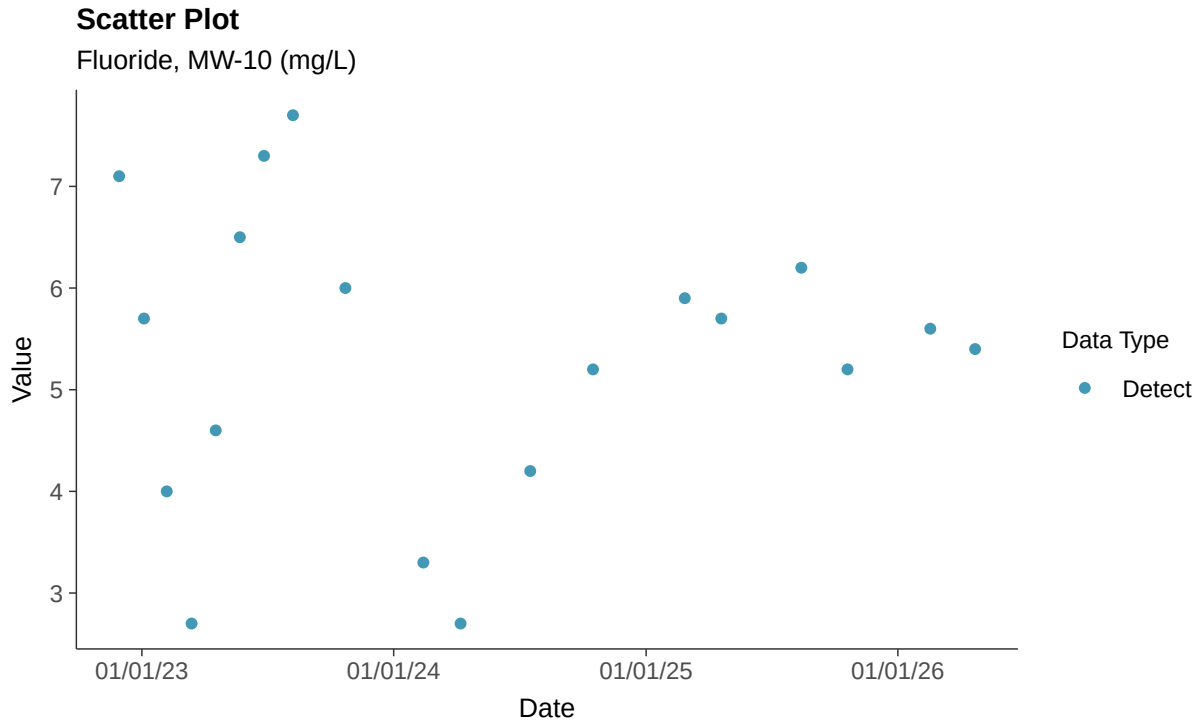
Trend Regression: Piecewise Linear-Linear

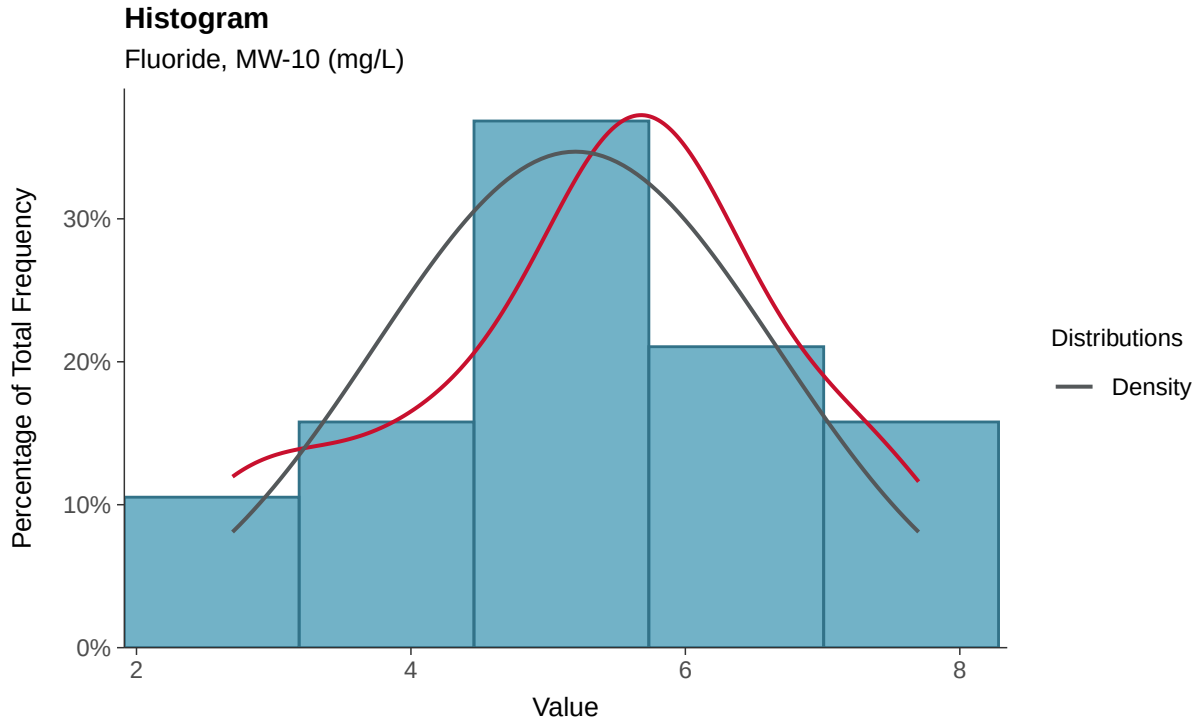
Chloride (as Cl), MW-10 (mg/L)



Appendix III: Fluoride, MW-10

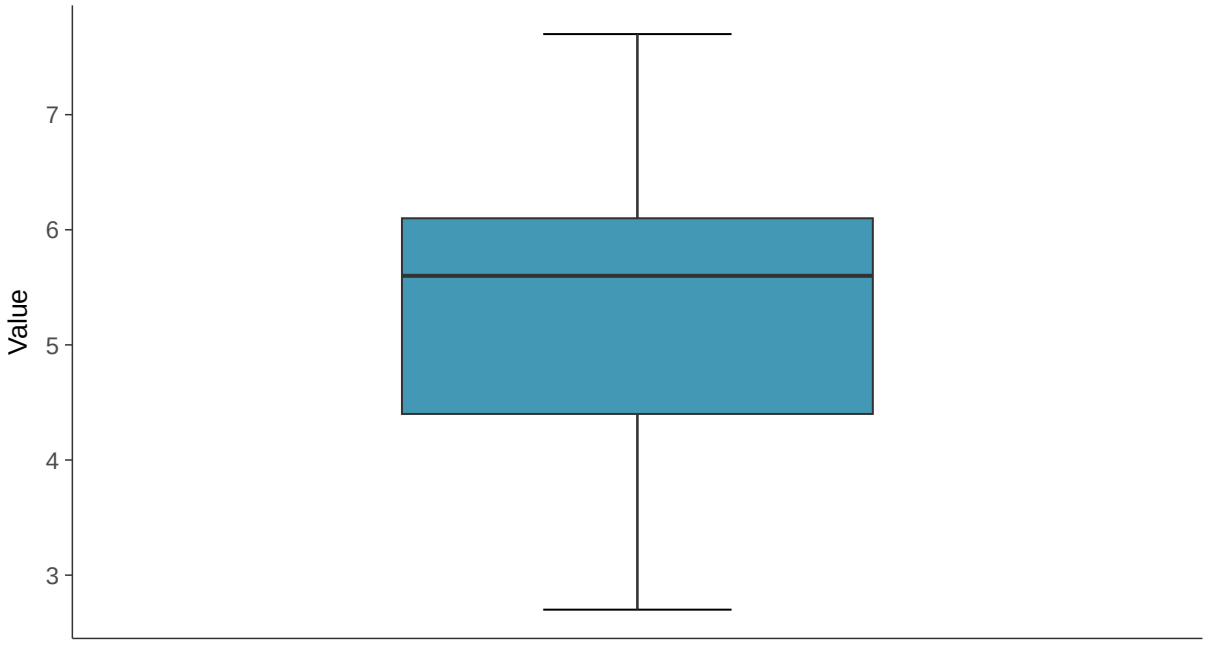
ID: 20_3_3_112





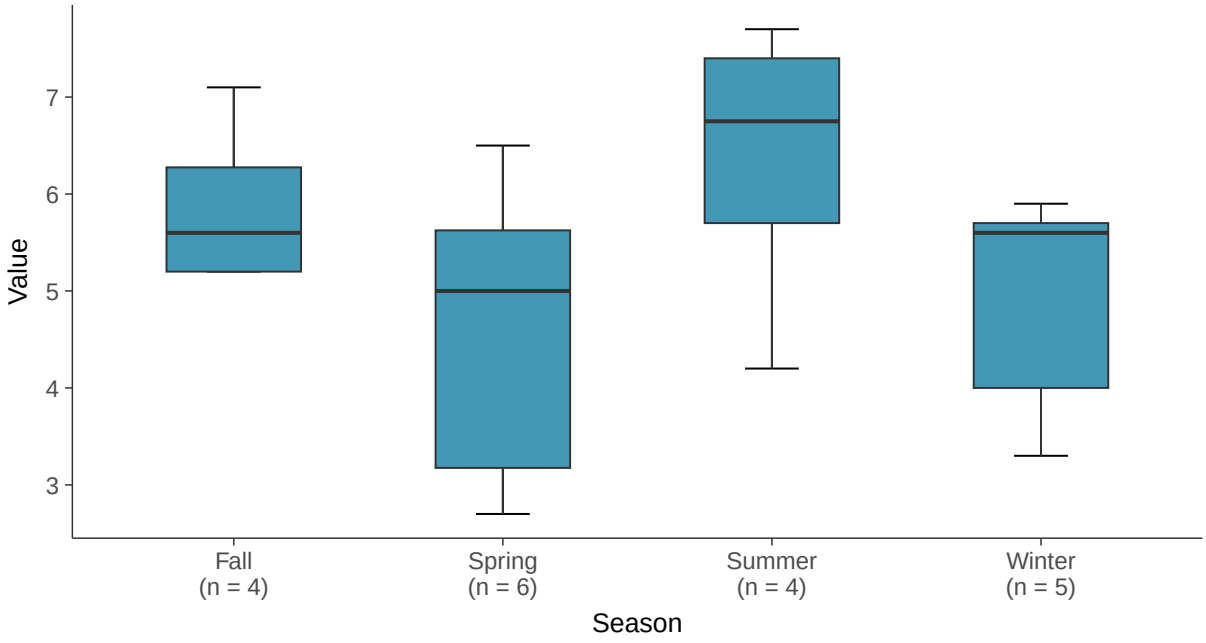
Boxplot

Fluoride, MW-10 (mg/L)



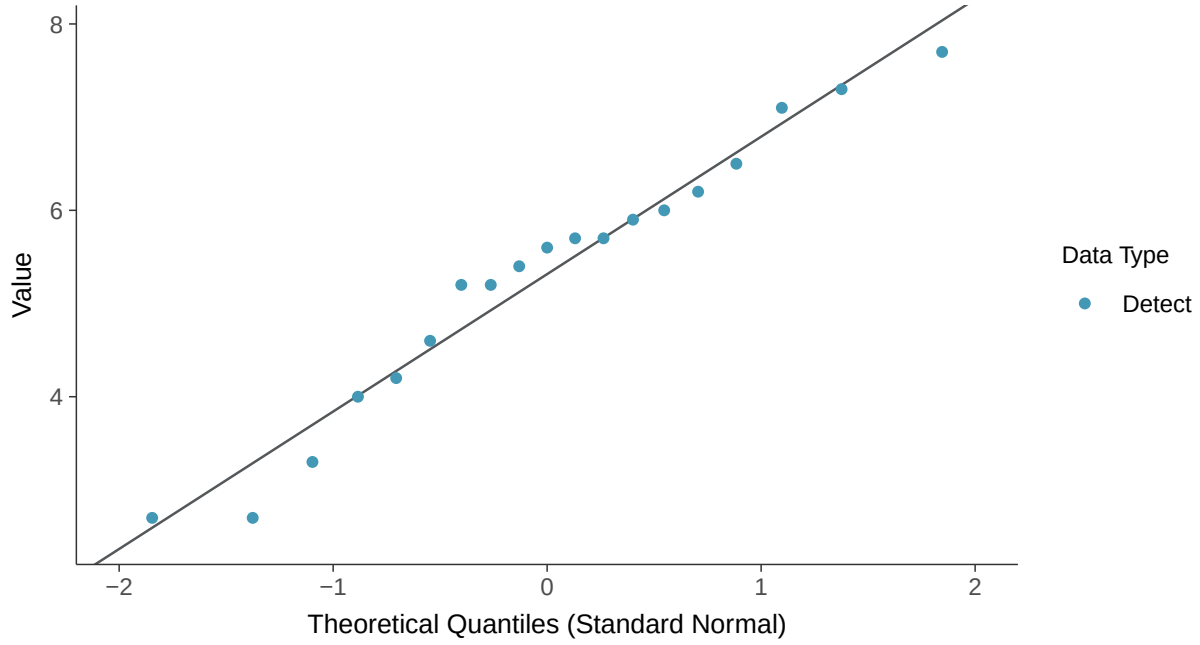
Boxplot by Season

Fluoride, MW-10 (mg/L)



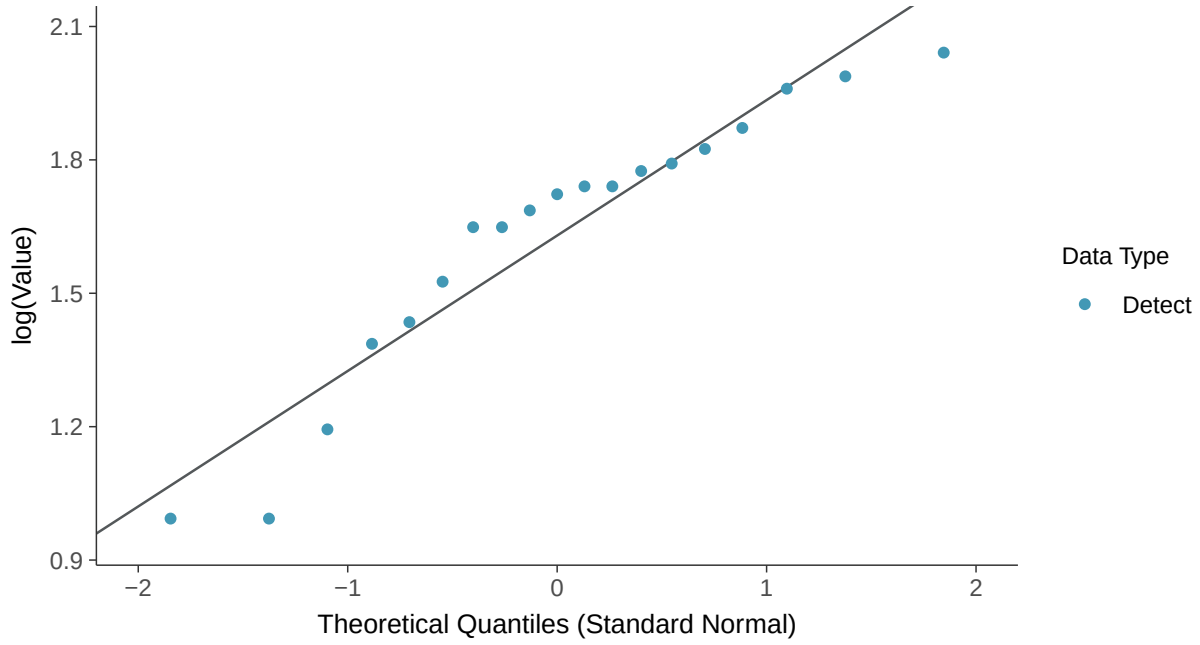
Normal Q-Q plot

Fluoride, MW-10 (mg/L)



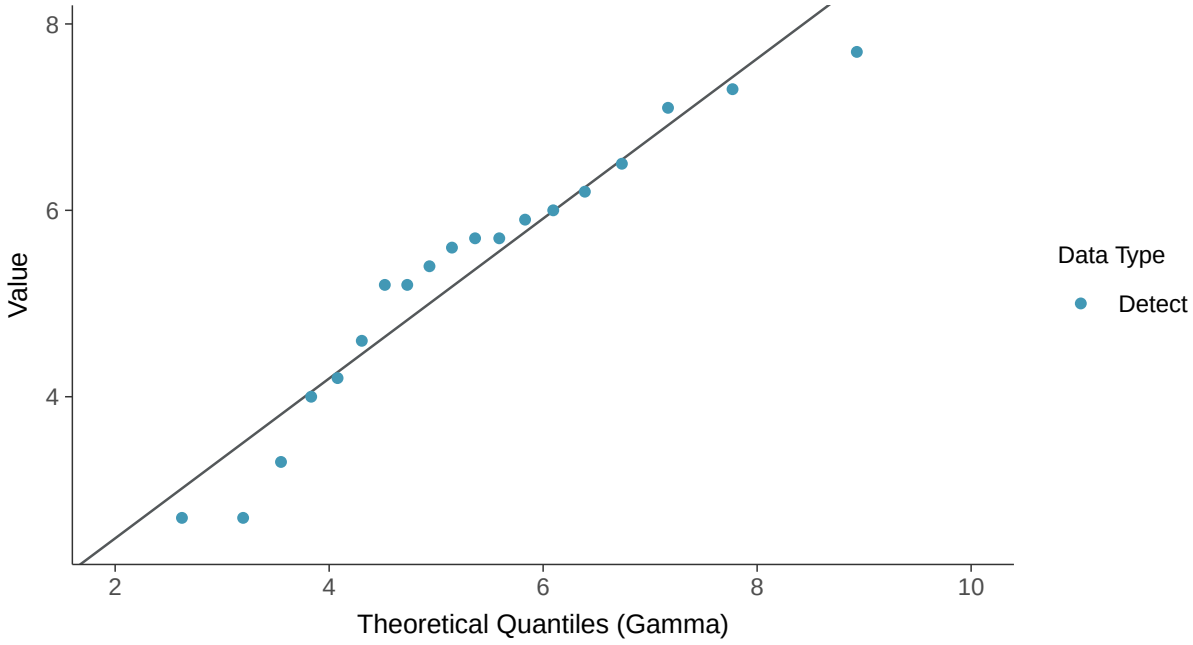
Lognormal Q-Q plot

Fluoride, MW-10 (mg/L)



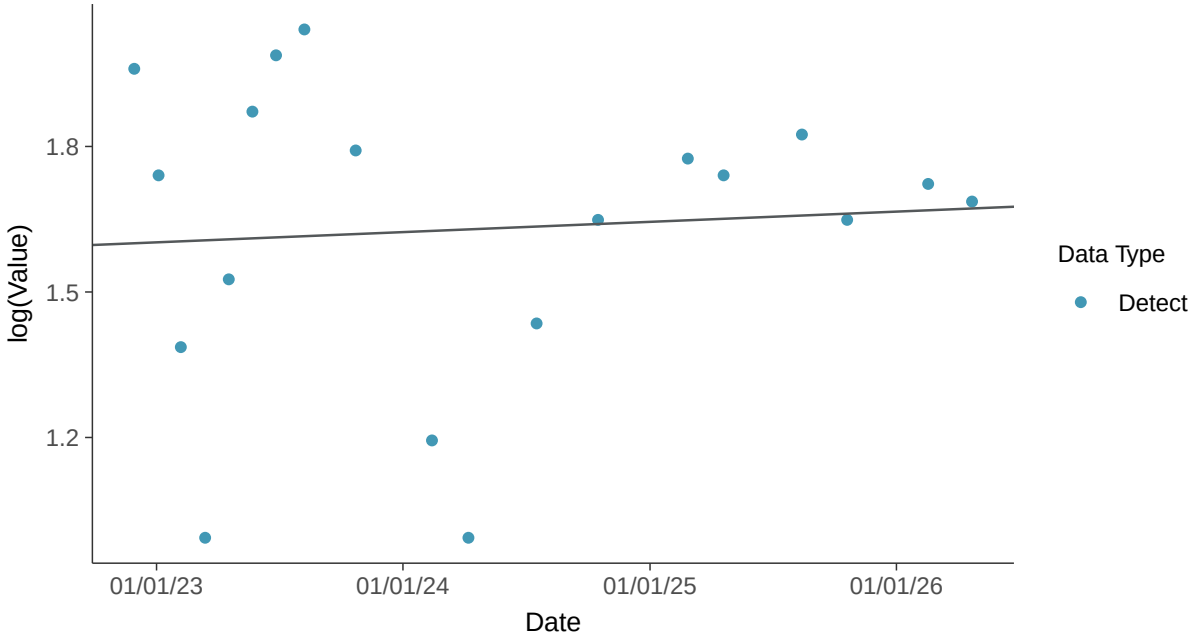
Gamma Q-Q plot

Fluoride, MW-10 (mg/L)



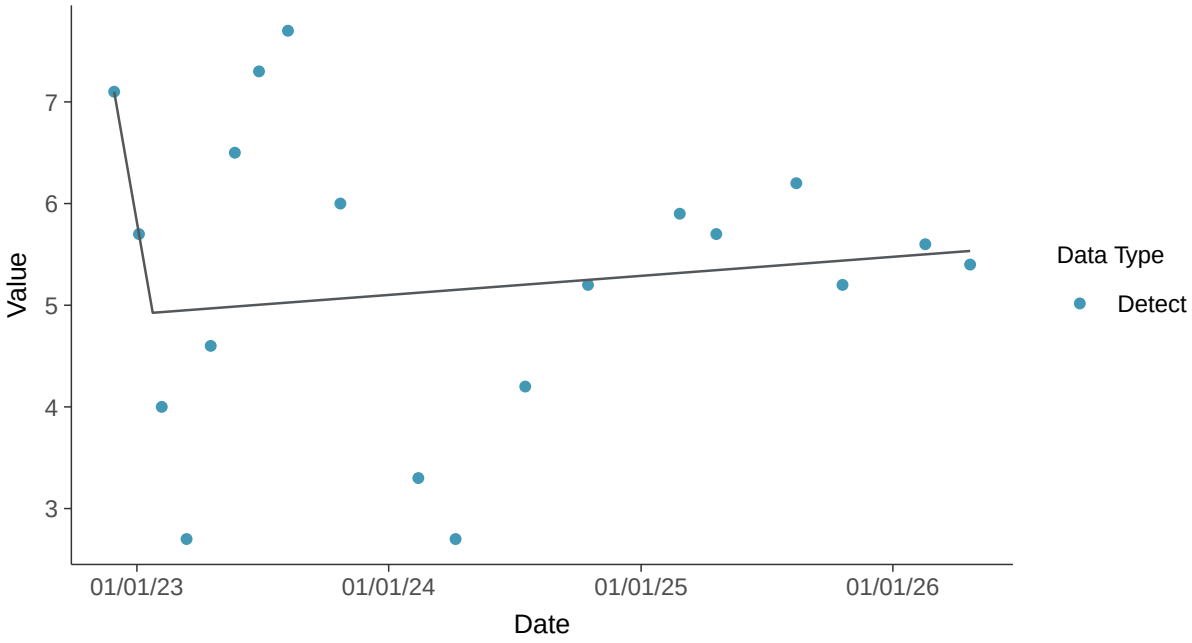
Trend Regression: Lognormal MLE

Fluoride, MW-10 (mg/L)



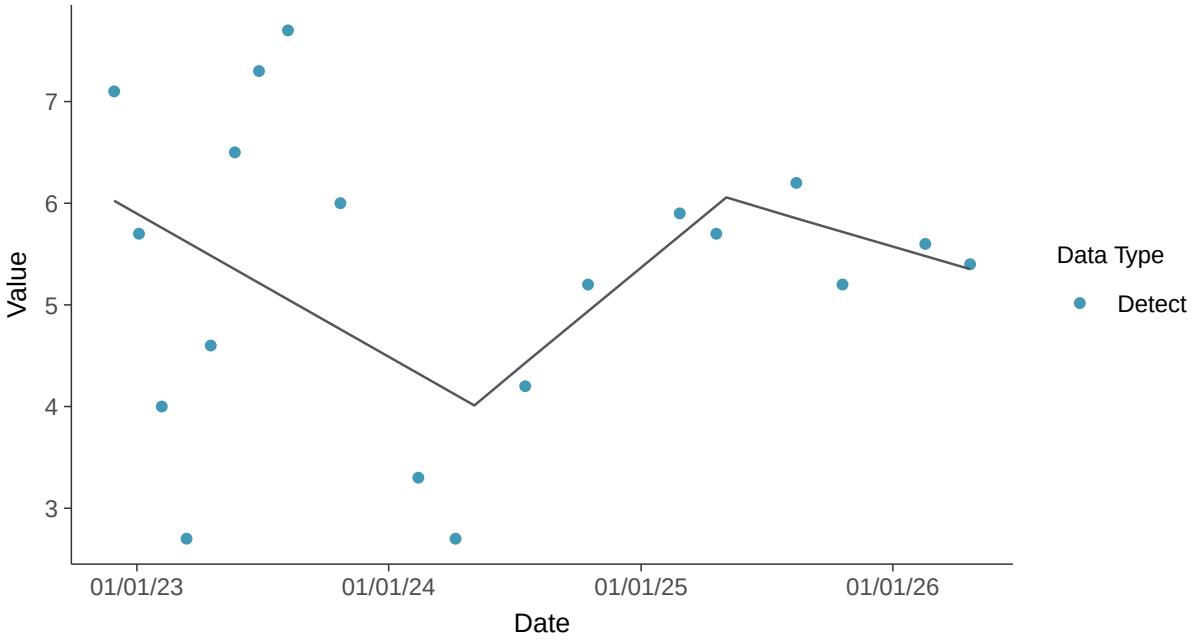
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-10 (mg/L)

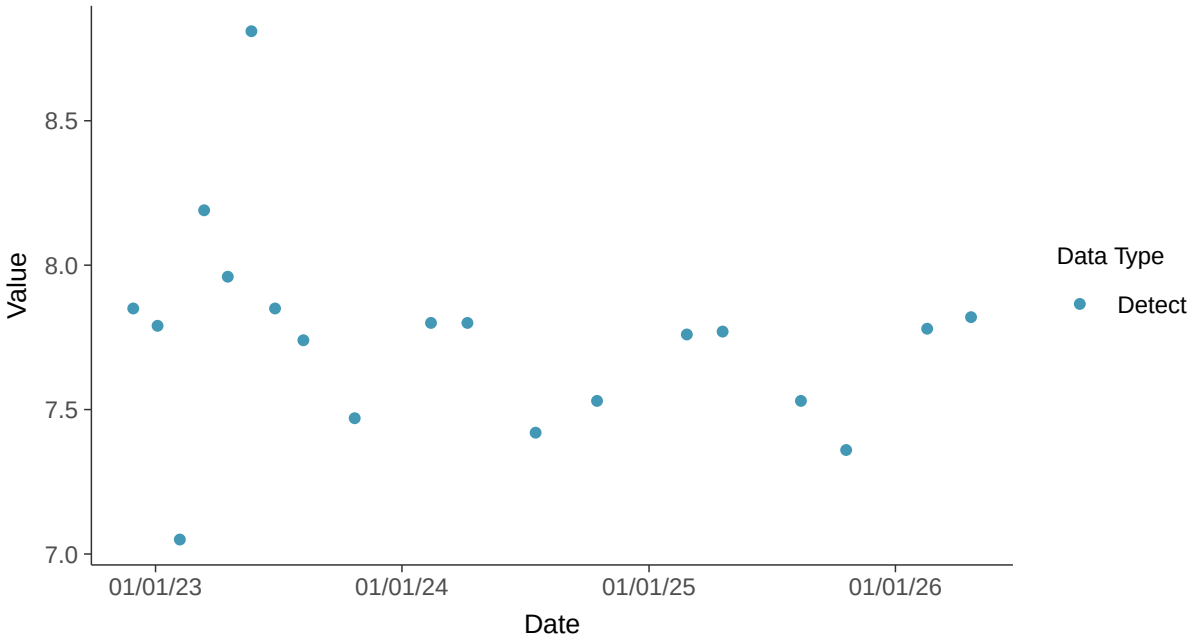


Appendix III: pH (field), MW-10

ID: 20_3_3_120

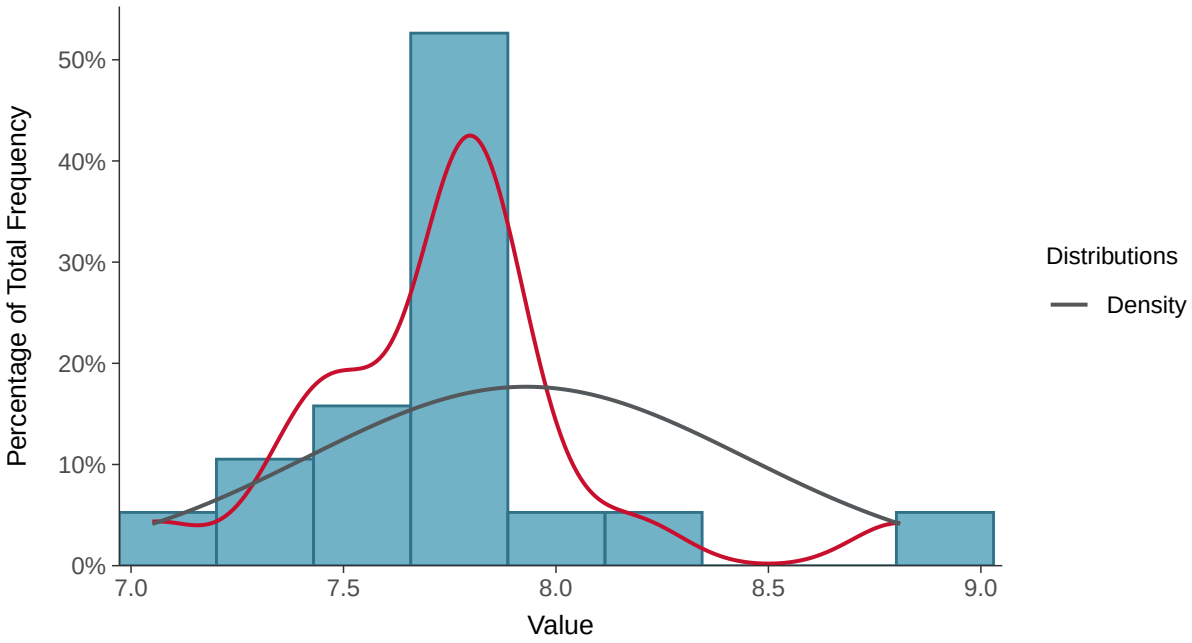
Scatter Plot

pH (field), MW-10 (su)



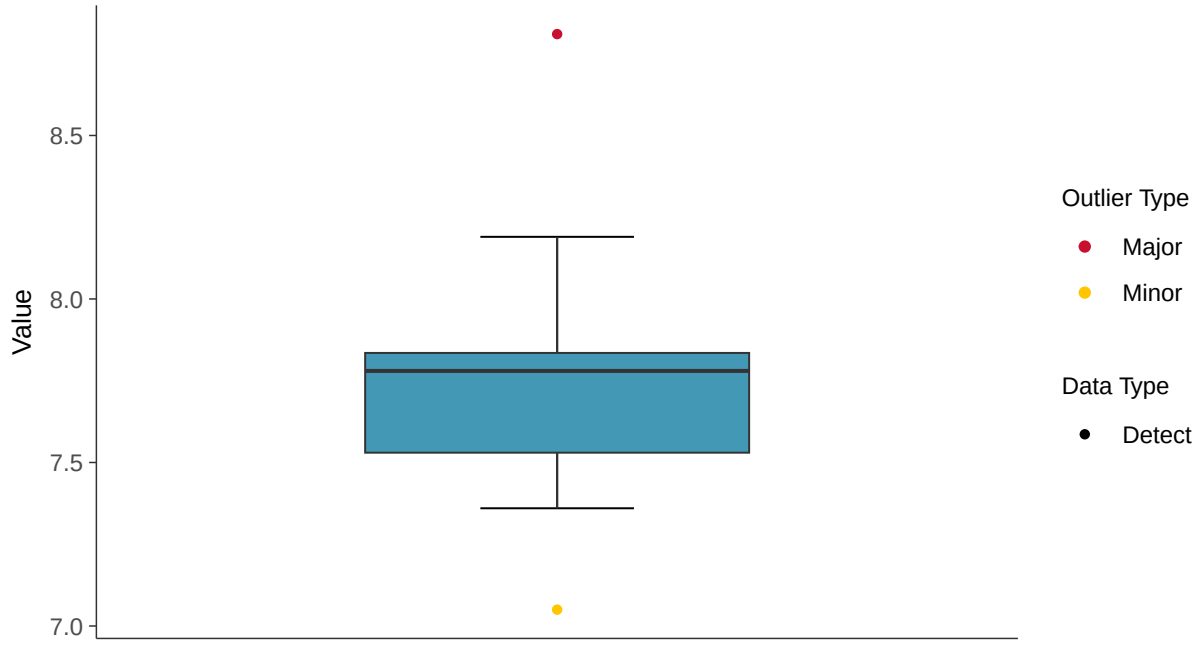
Histogram

pH (field), MW-10 (su)



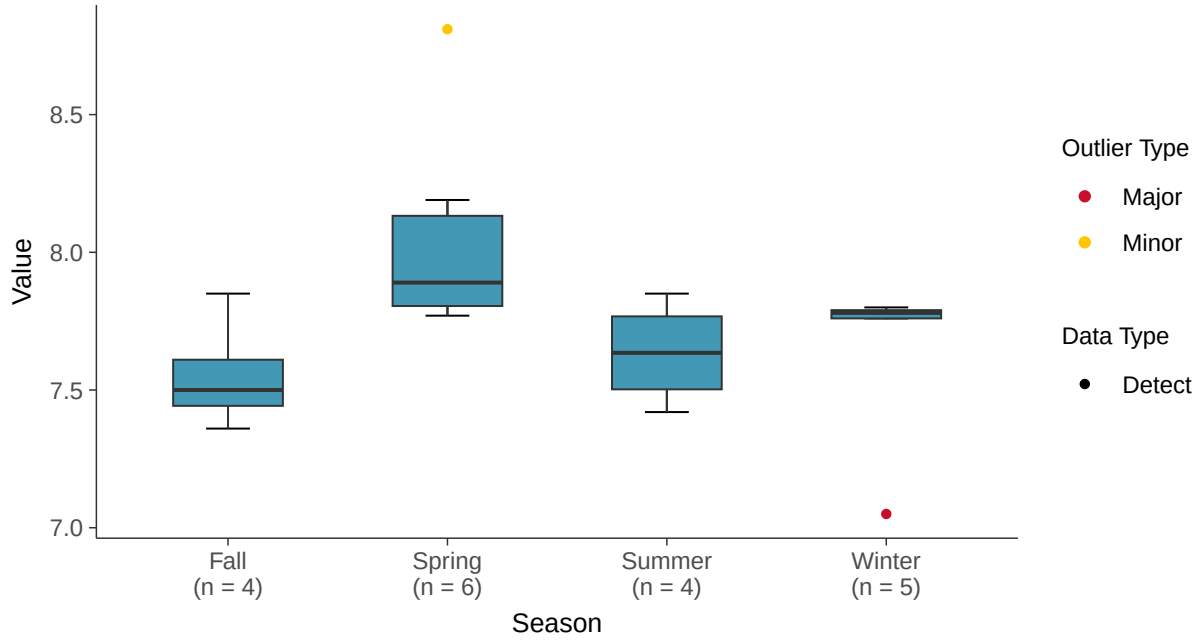
Boxplot

pH (field), MW-10 (su)



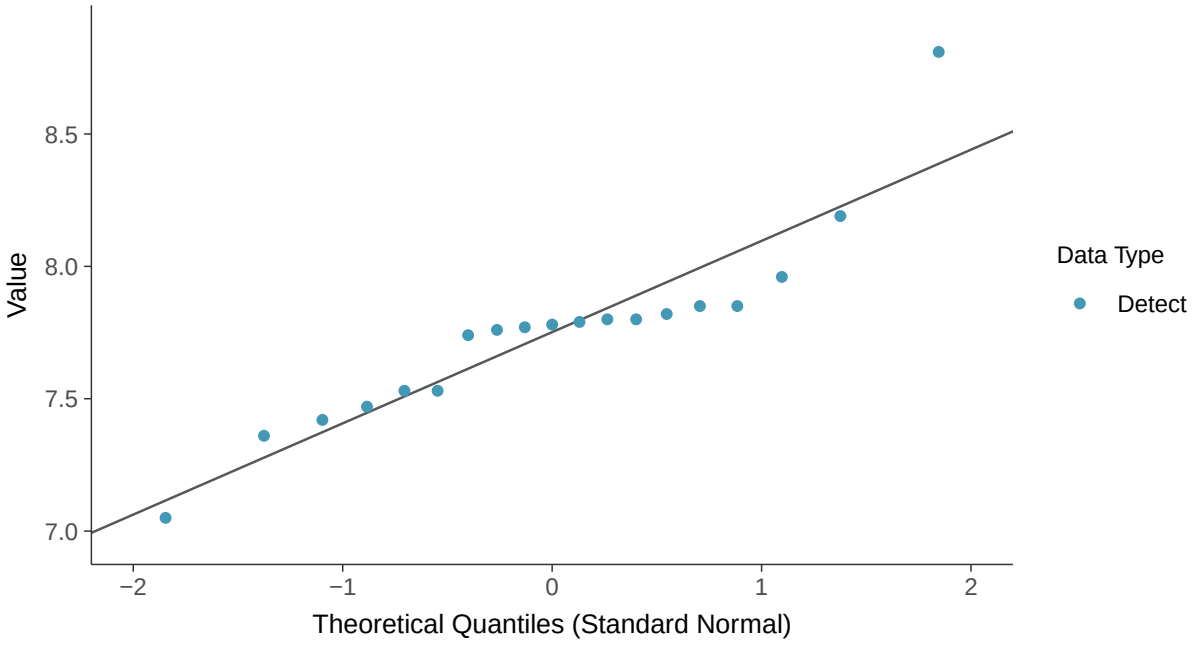
Boxplot by Season

pH (field), MW-10 (su)



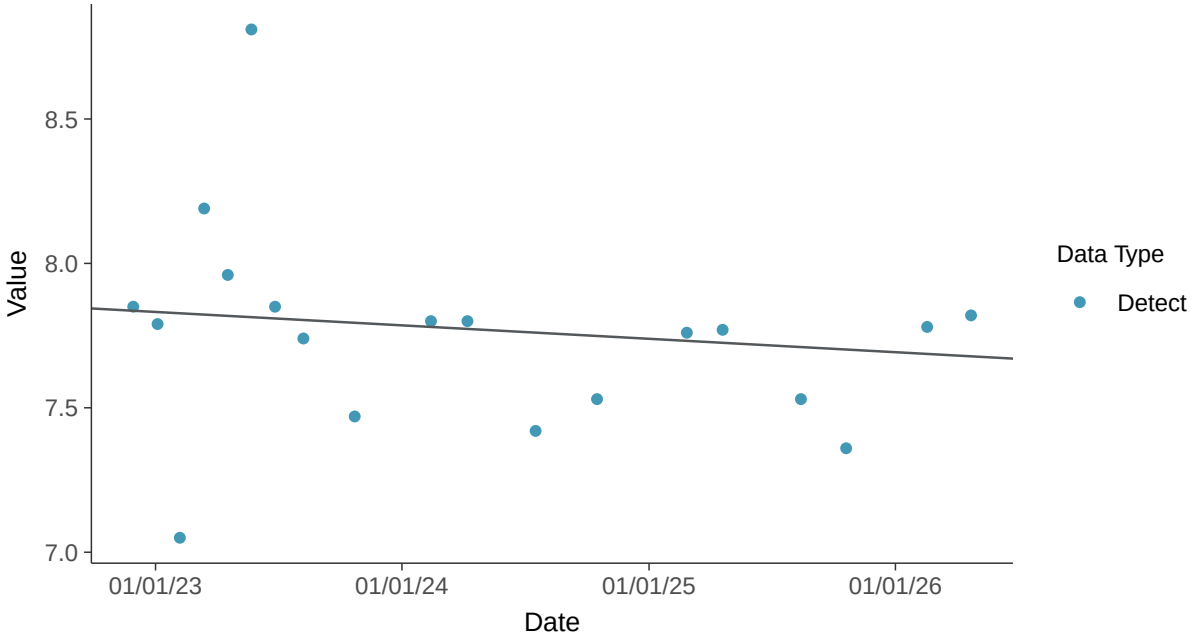
Normal Q-Q plot

pH (field), MW-10 (su)



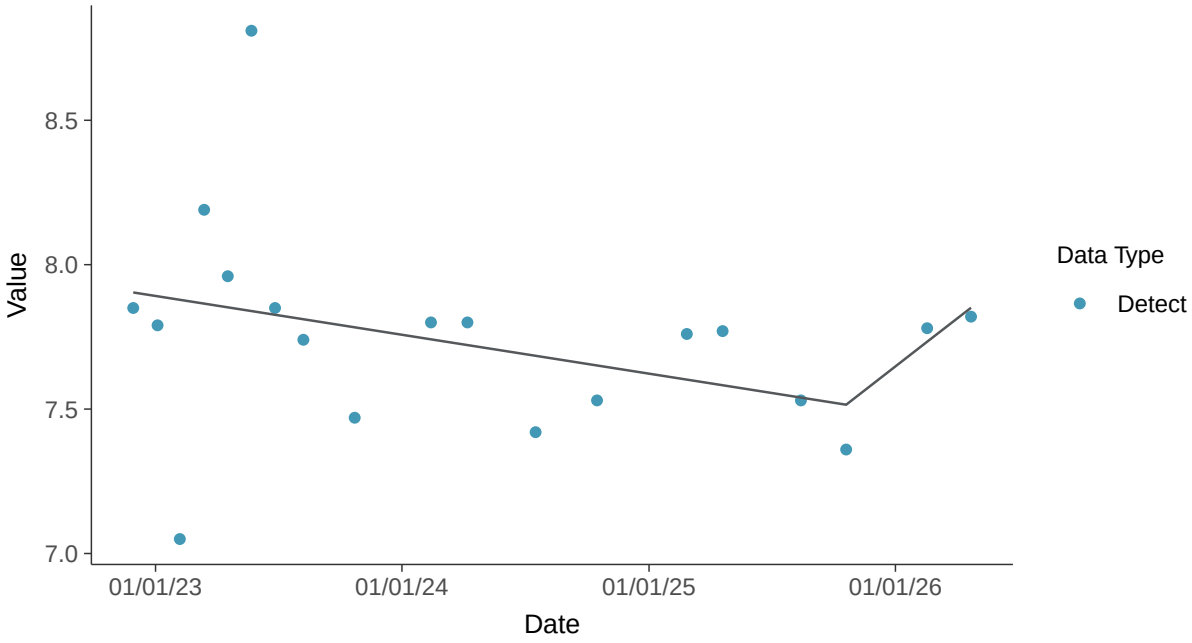
Trend Regression: Mann-Kendall/Theil-Sen Estimate

pH (field), MW-10 (su)



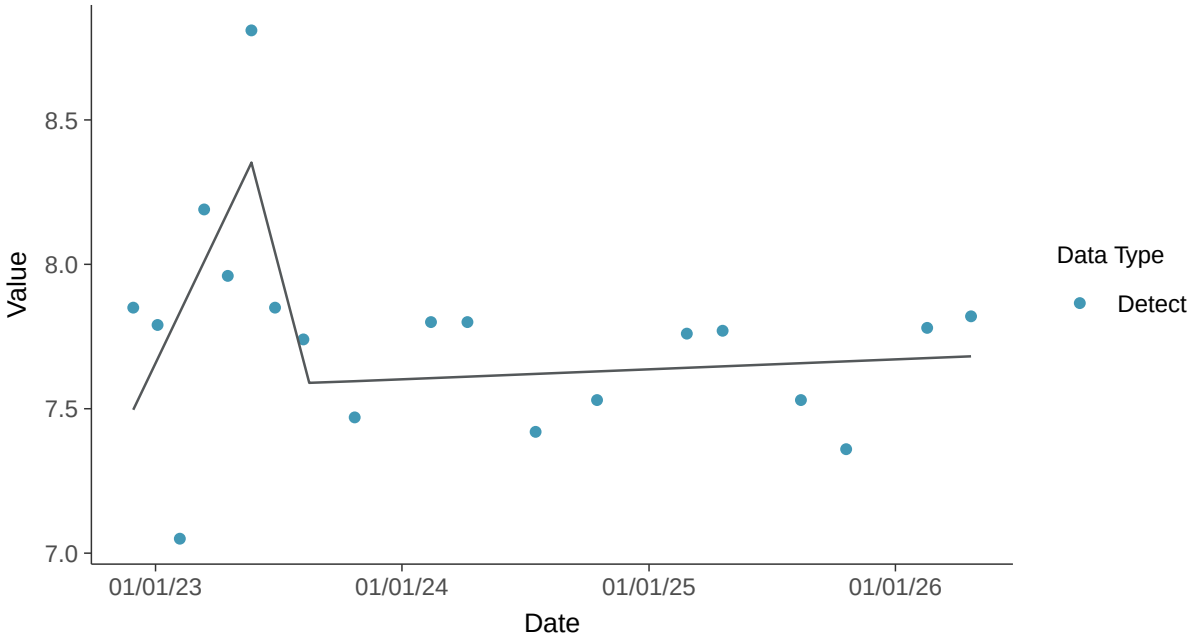
Trend Regression: Piecewise Linear-Linear

pH (field), MW-10 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-10 (su)

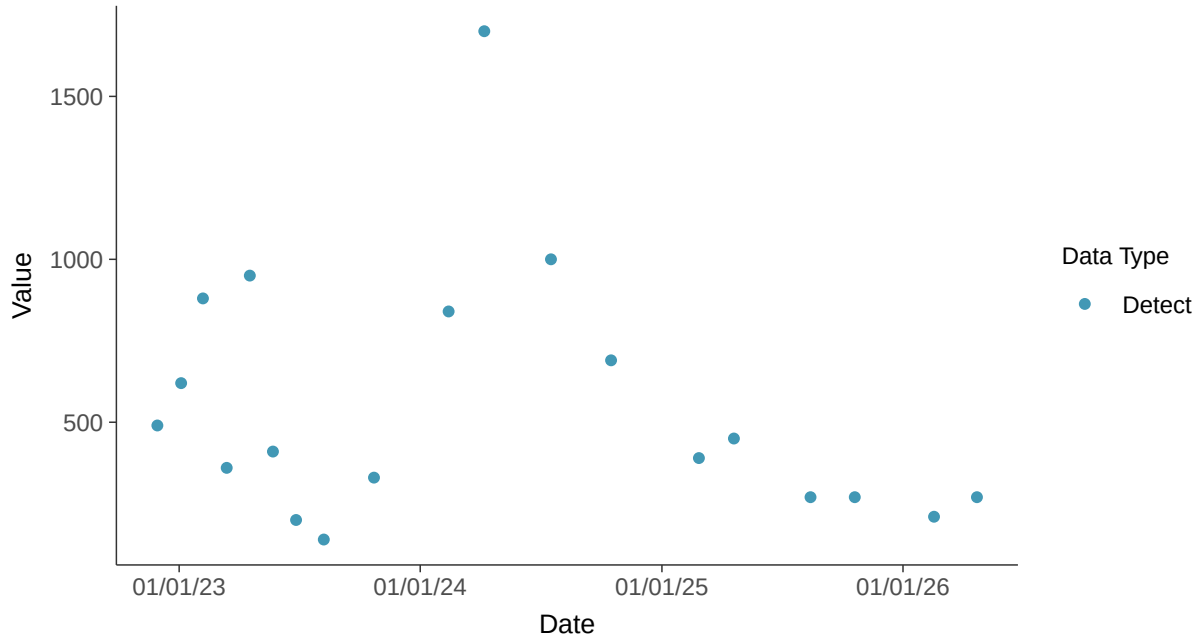


Appendix III: Sulfate (as SO4), MW-10

ID: 20_3_3_124

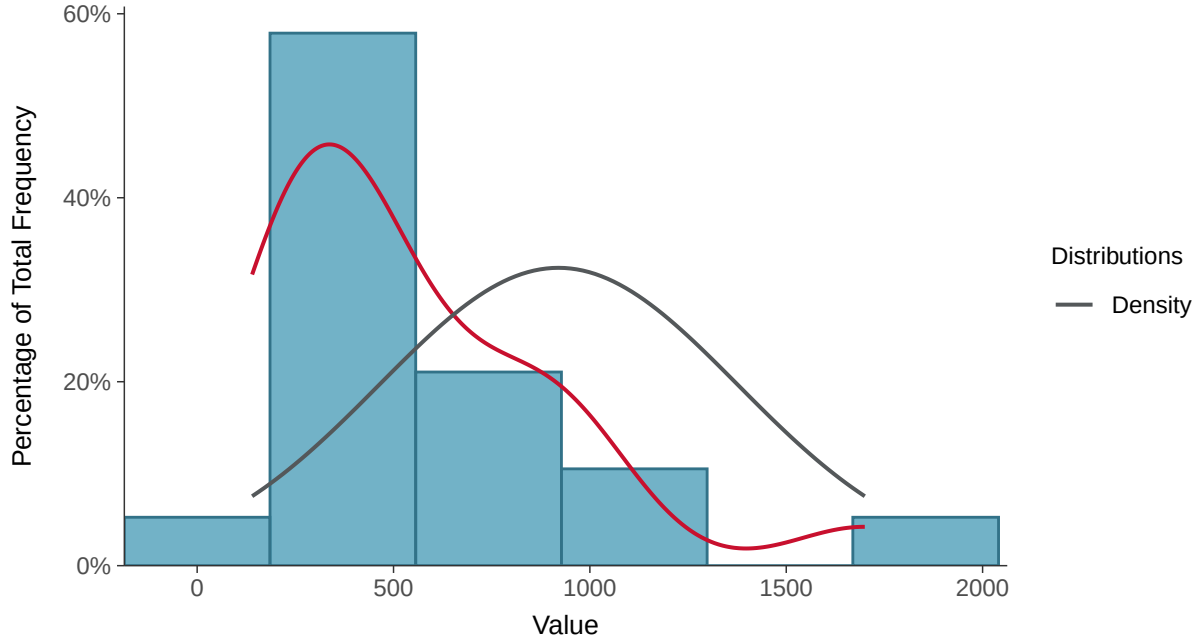
Scatter Plot

Sulfate (as SO4), MW-10 (mg/L)



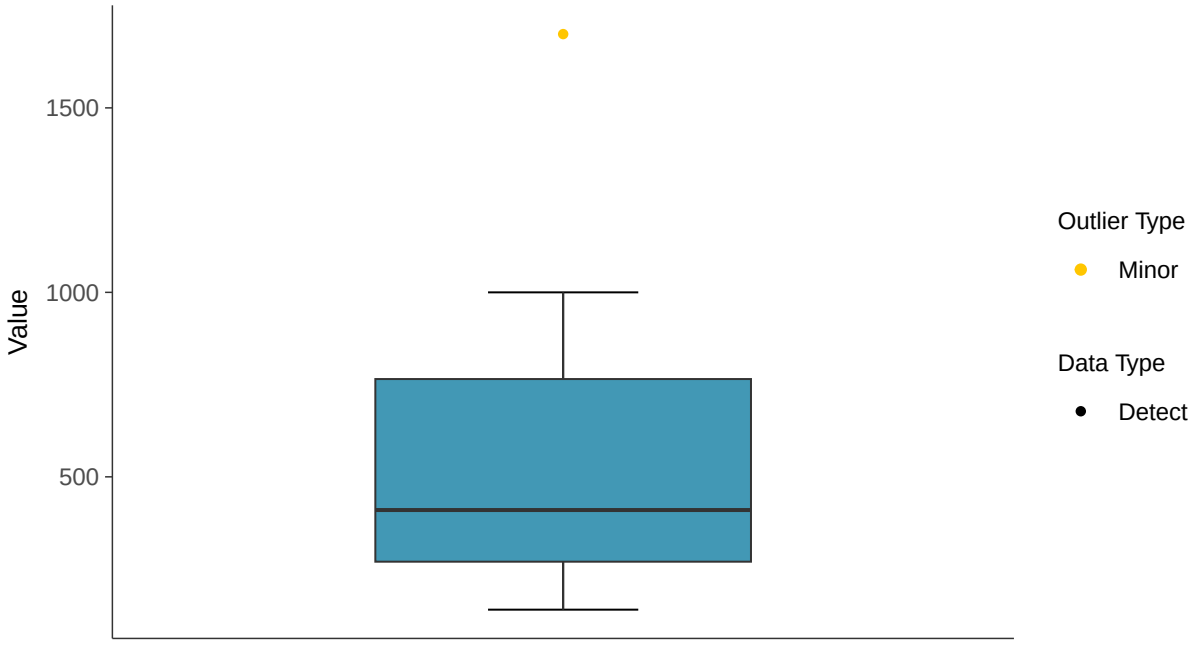
Histogram

Sulfate (as SO4), MW-10 (mg/L)



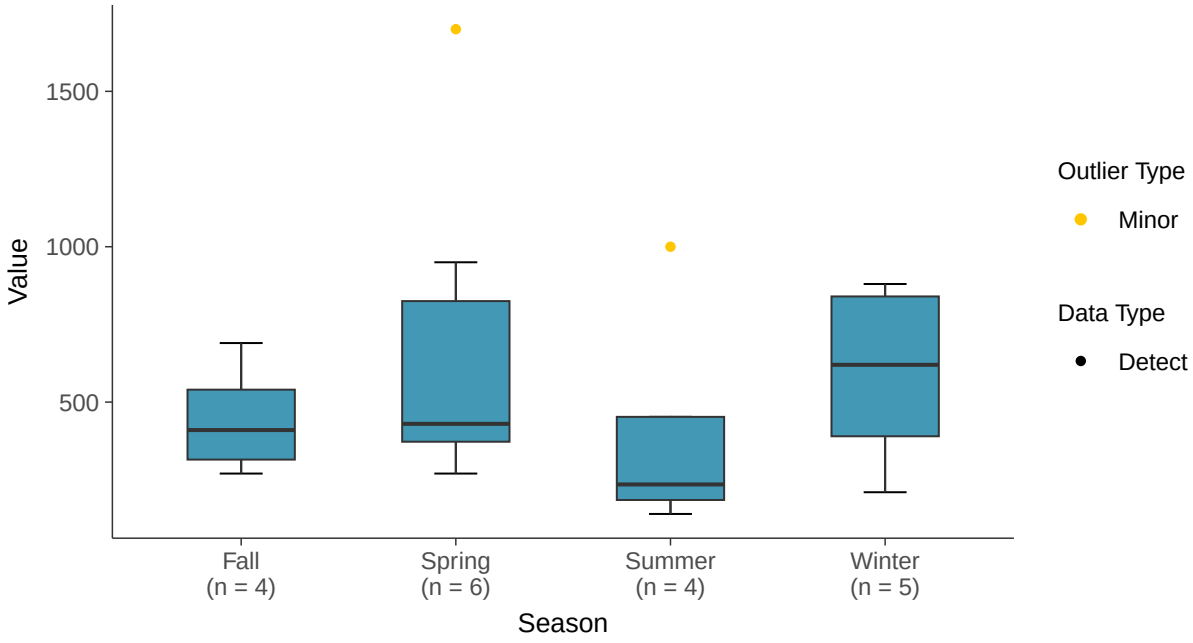
Boxplot

Sulfate (as SO4), MW-10 (mg/L)



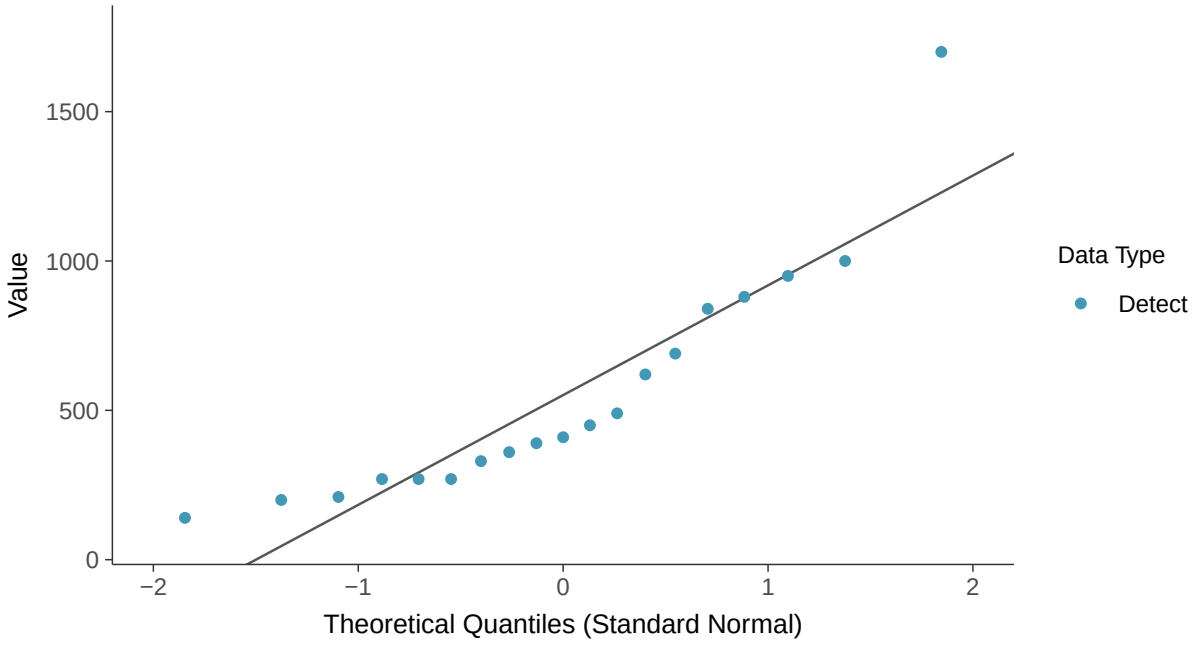
Boxplot by Season

Sulfate (as SO4), MW-10 (mg/L)



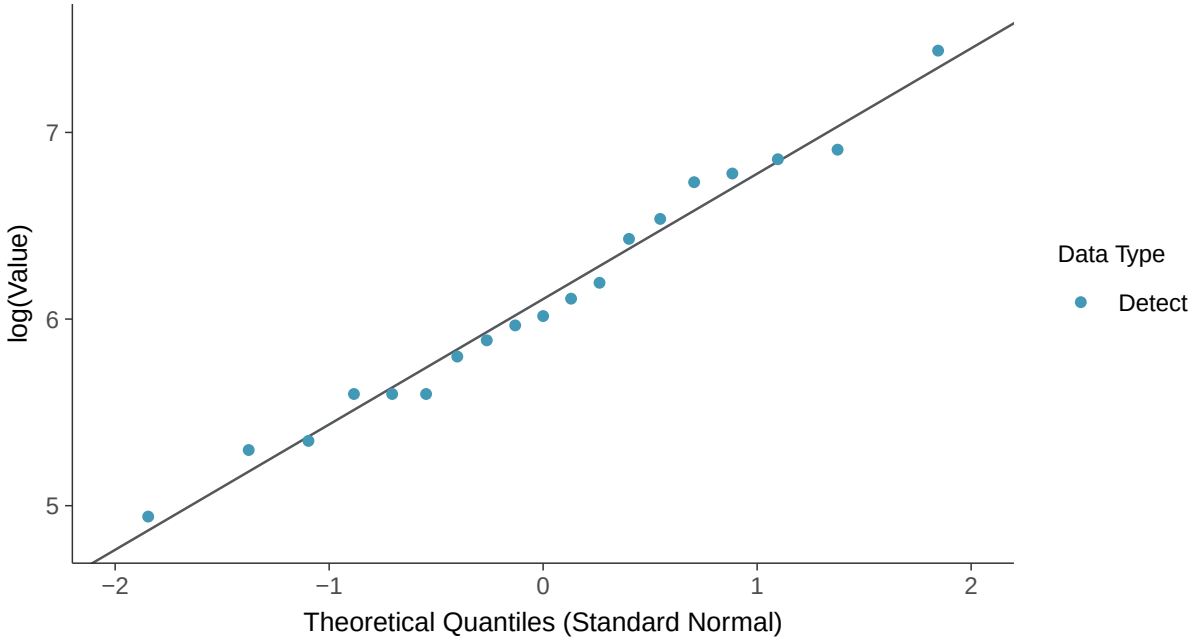
Normal Q-Q plot

Sulfate (as SO4), MW-10 (mg/L)



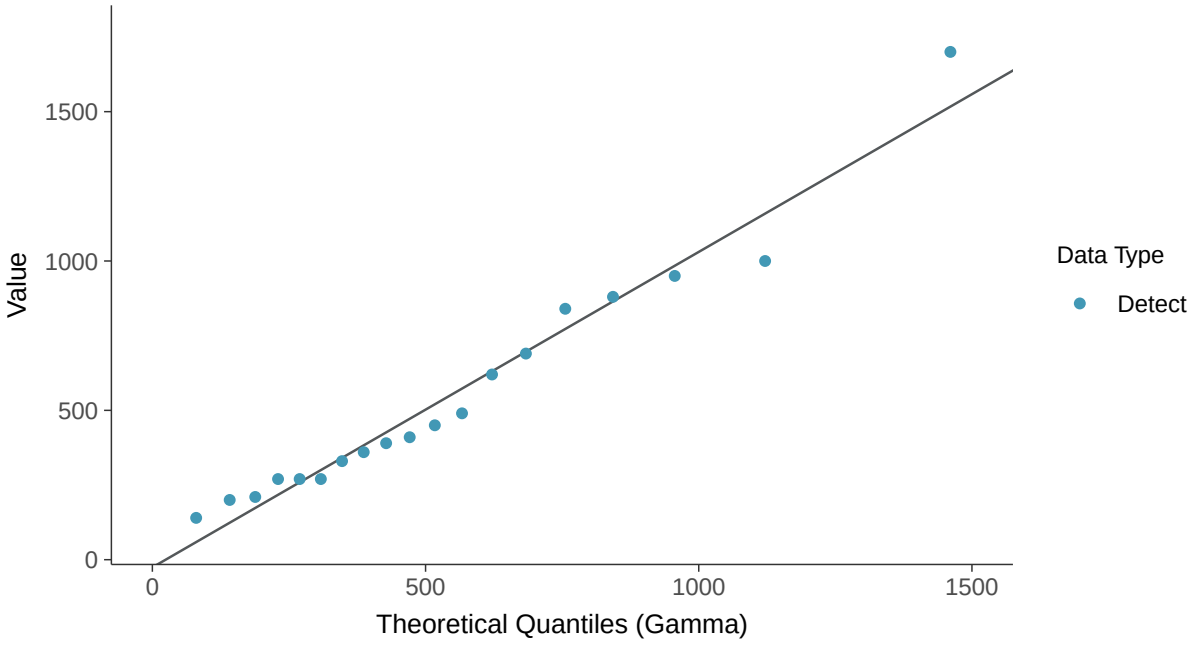
Lognormal Q-Q plot

Sulfate (as SO4), MW-10 (mg/L)



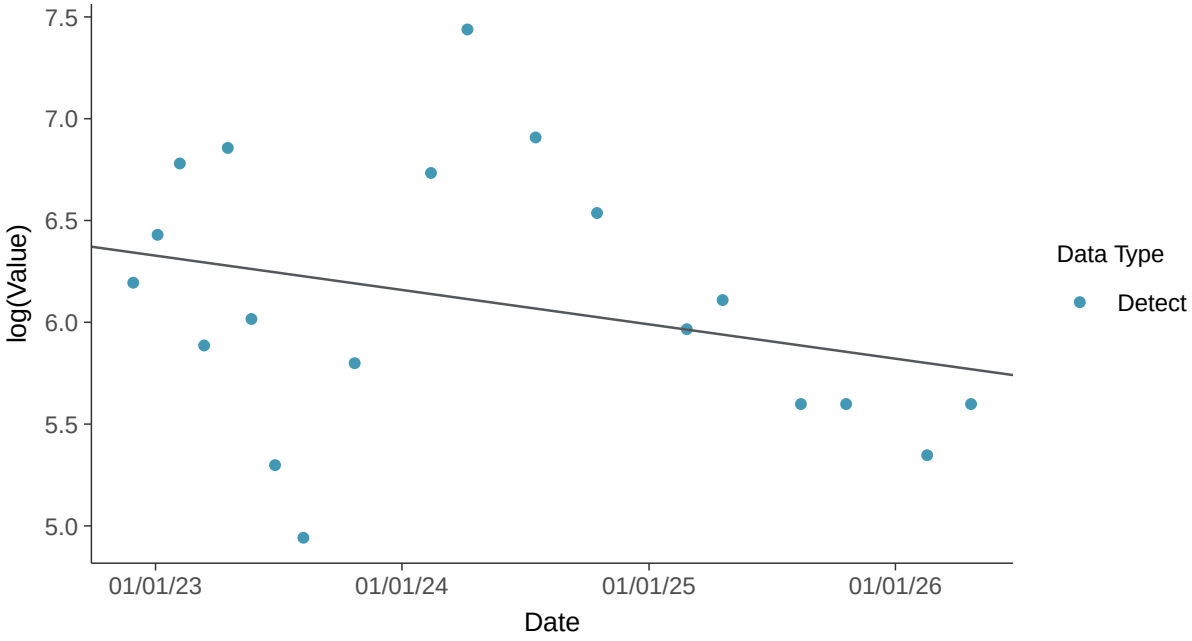
Gamma Q-Q plot

Sulfate (as SO4), MW-10 (mg/L)



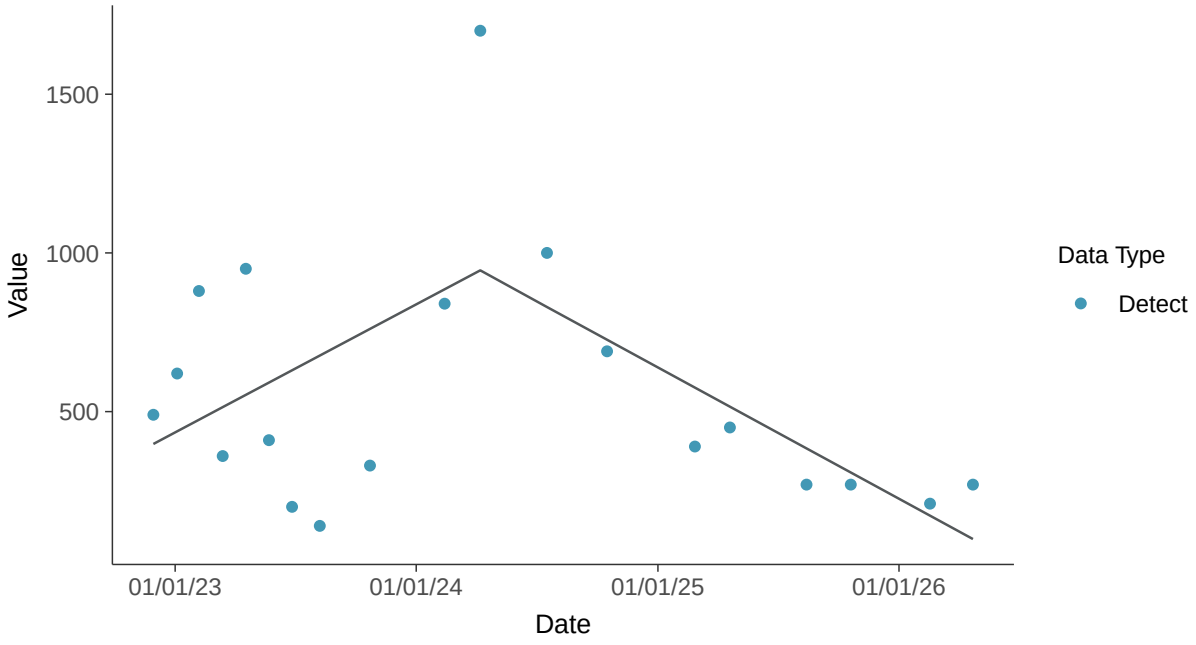
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-10 (mg/L)



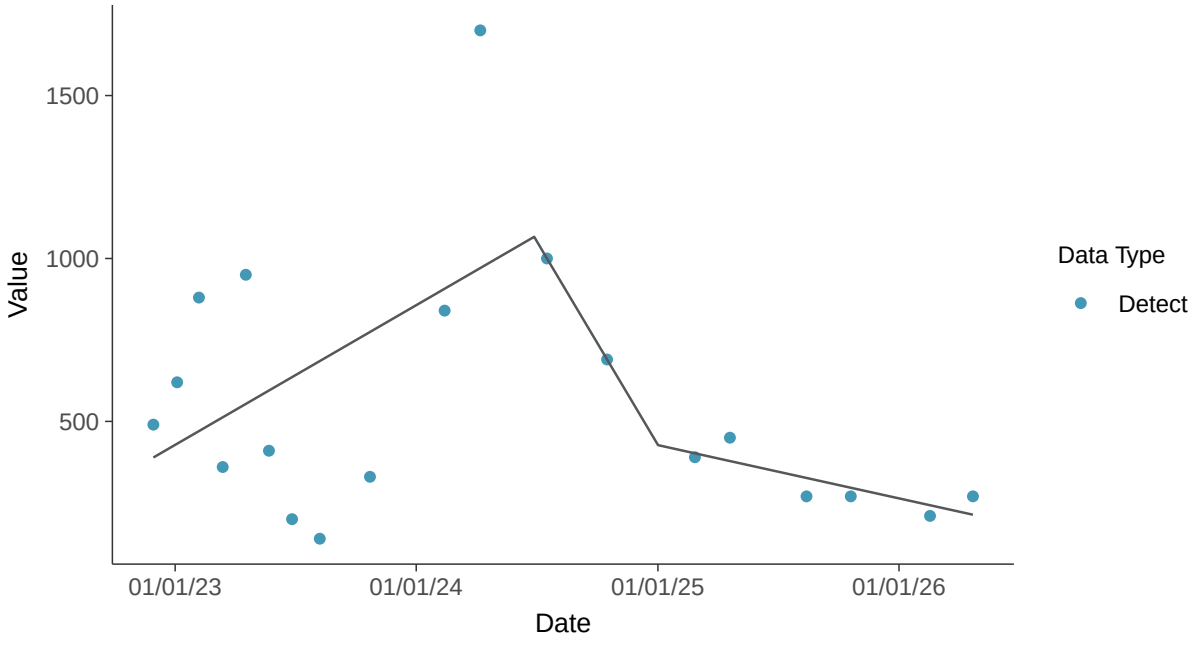
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-10 (mg/L)

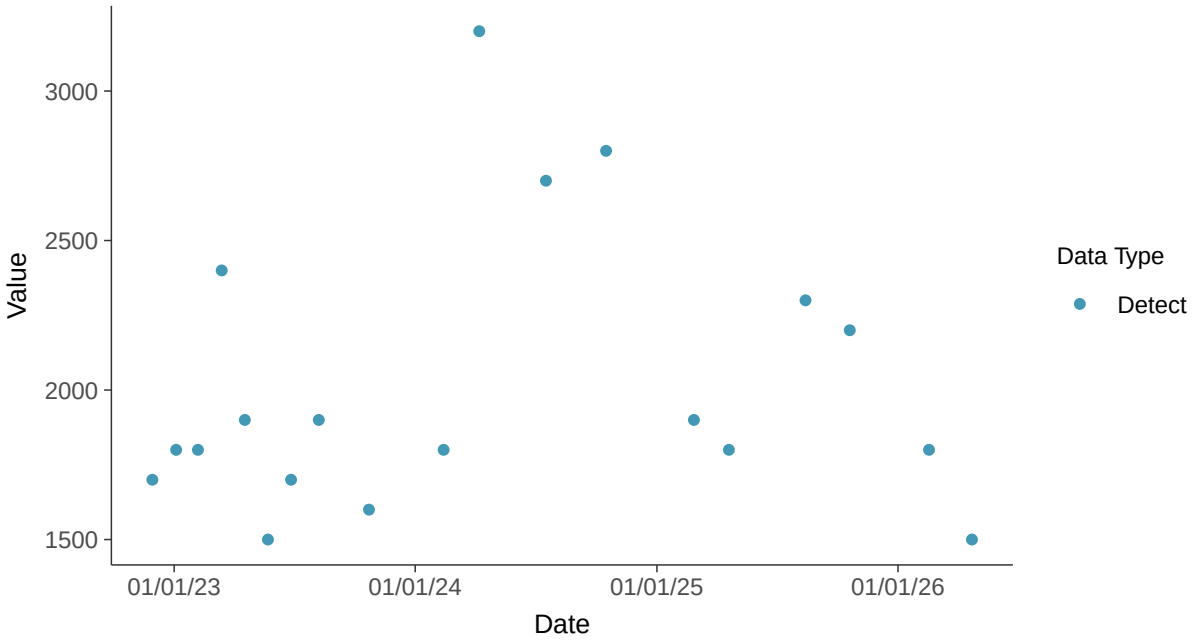


Appendix III: Total Dissolved Solids, MW-10

ID: 20_3_3_126

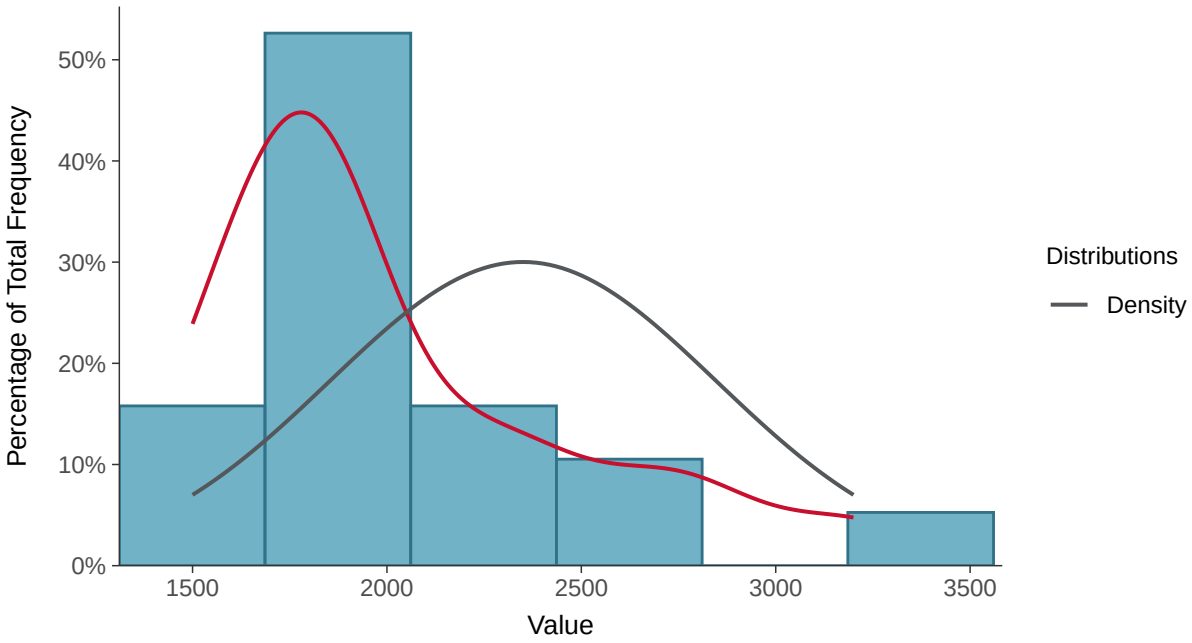
Scatter Plot

Total Dissolved Solids, MW-10 (mg/L)



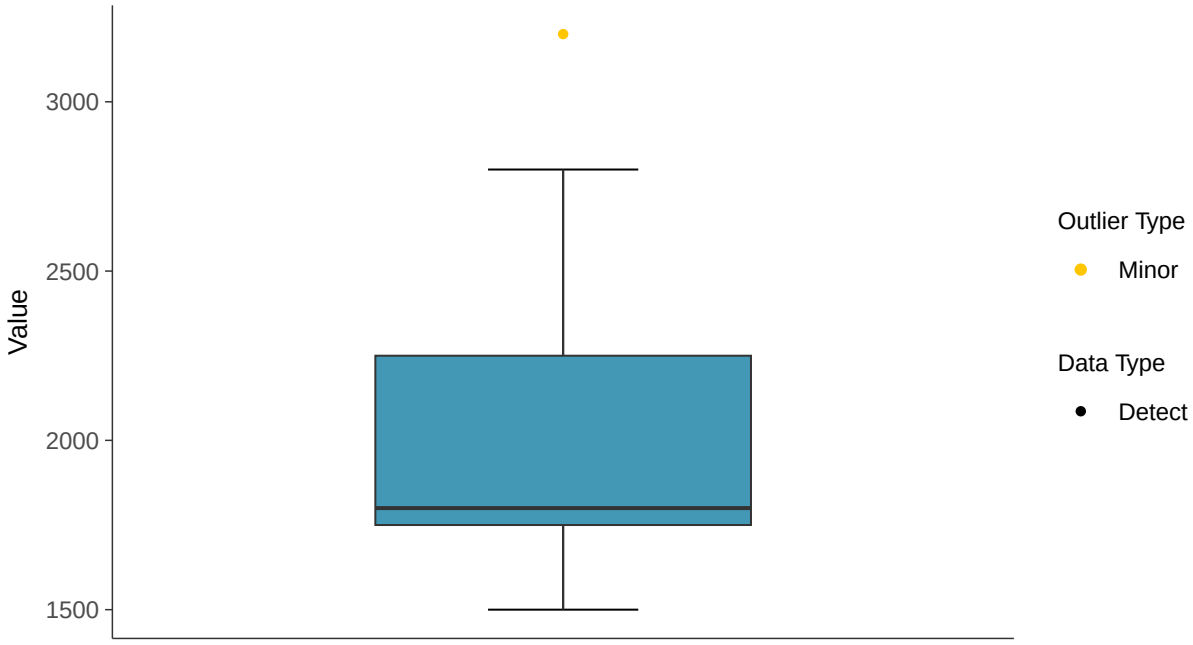
Histogram

Total Dissolved Solids, MW-10 (mg/L)



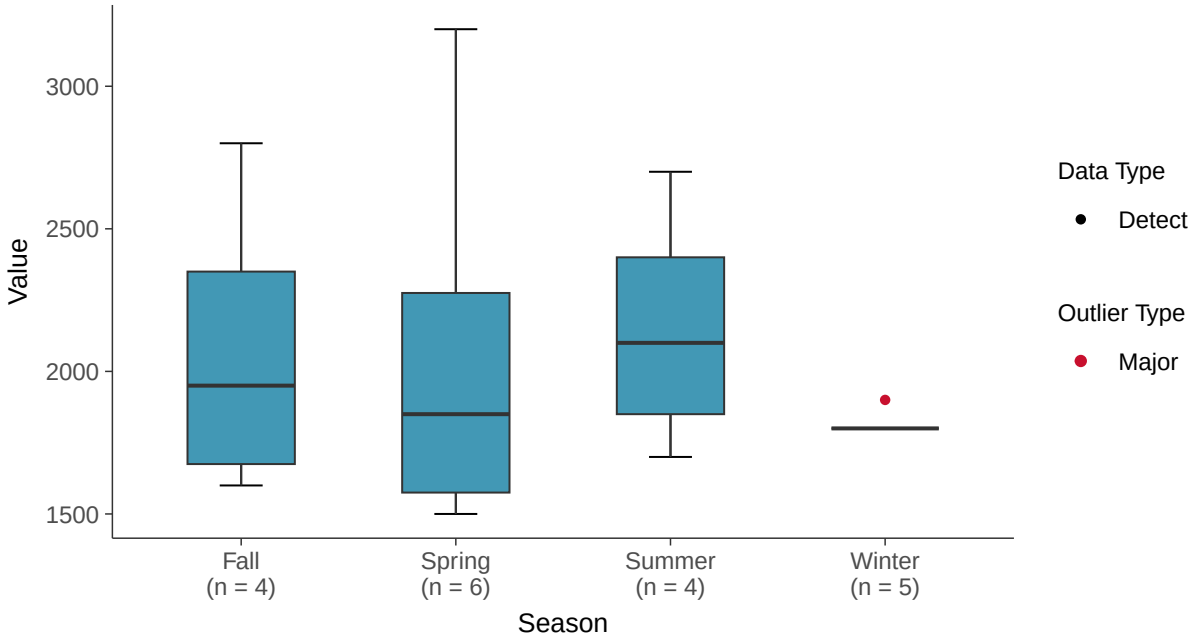
Boxplot

Total Dissolved Solids, MW-10 (mg/L)



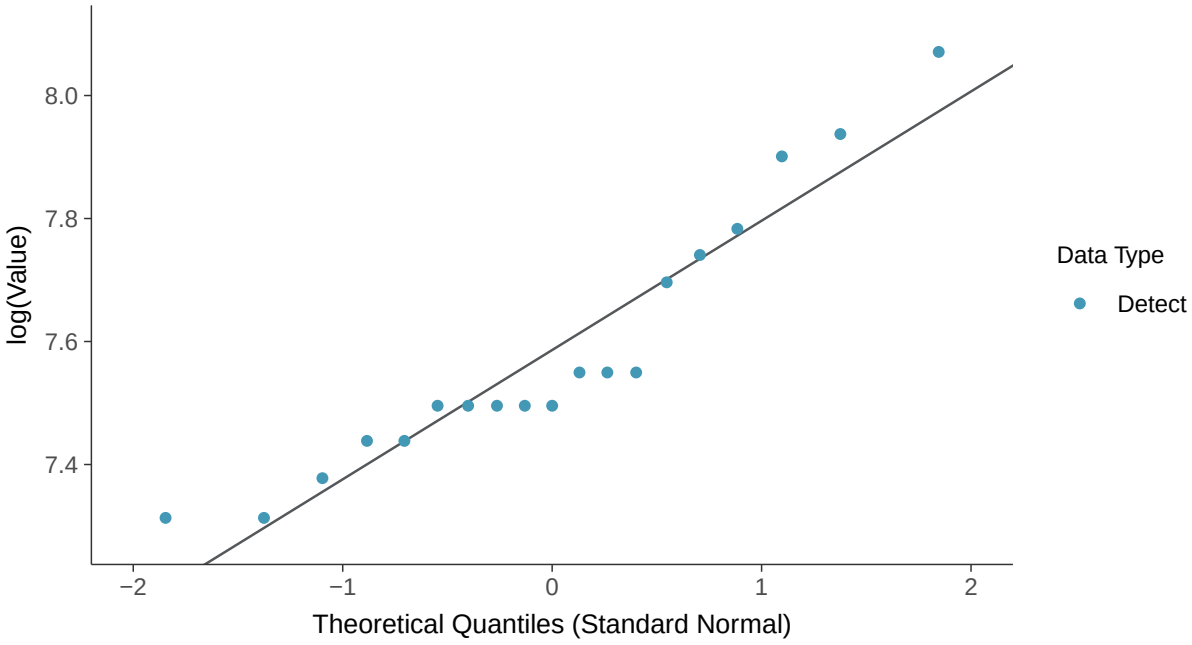
Boxplot by Season

Total Dissolved Solids, MW-10 (mg/L)



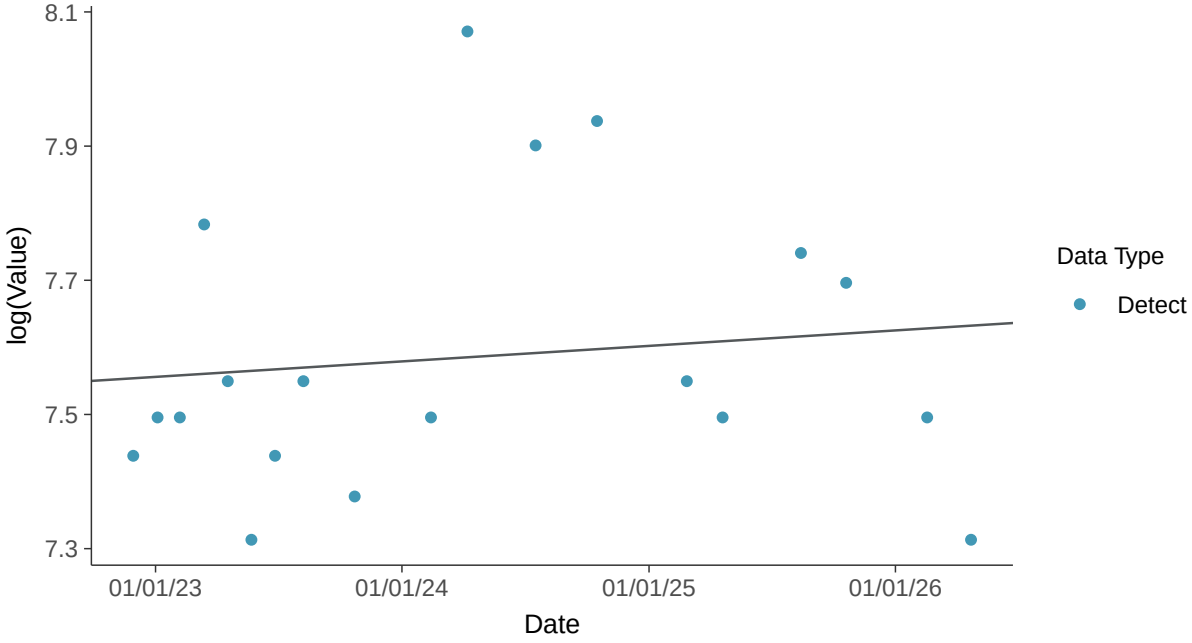
Lognormal Q-Q plot

Total Dissolved Solids, MW-10 (mg/L)



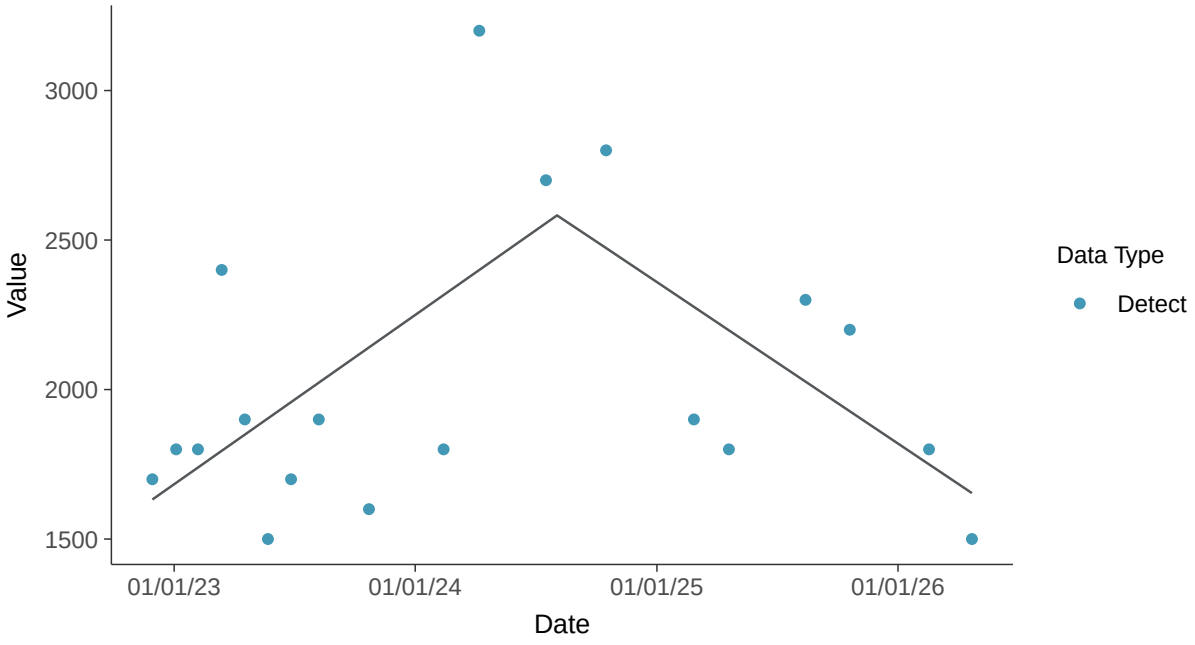
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-10 (mg/L)



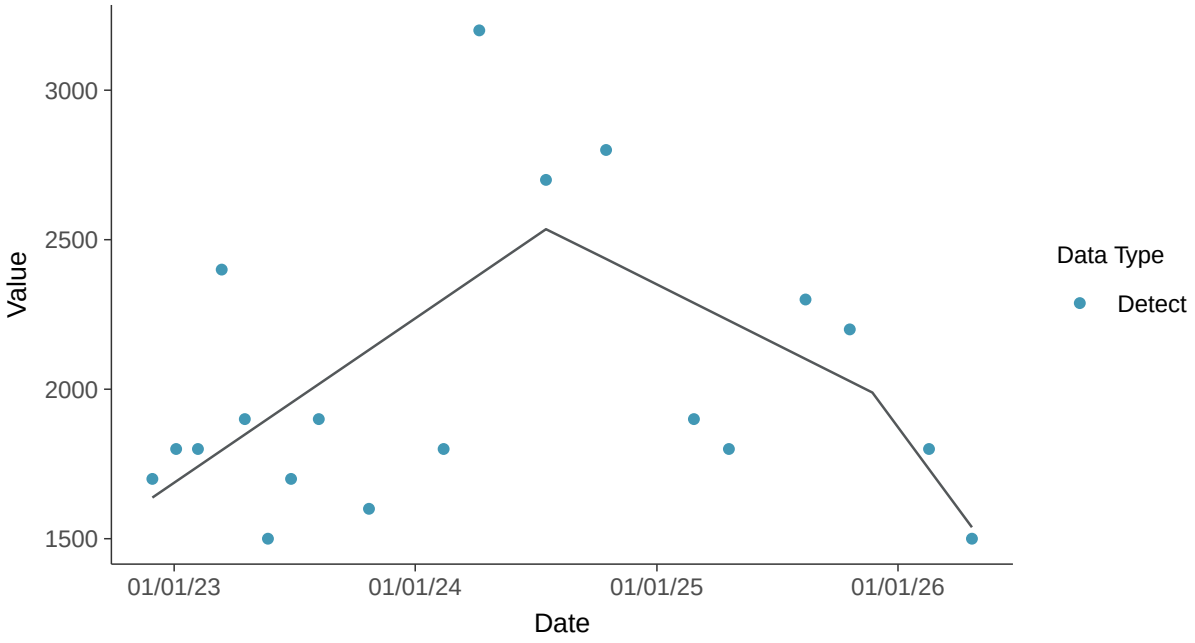
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-10 (mg/L)

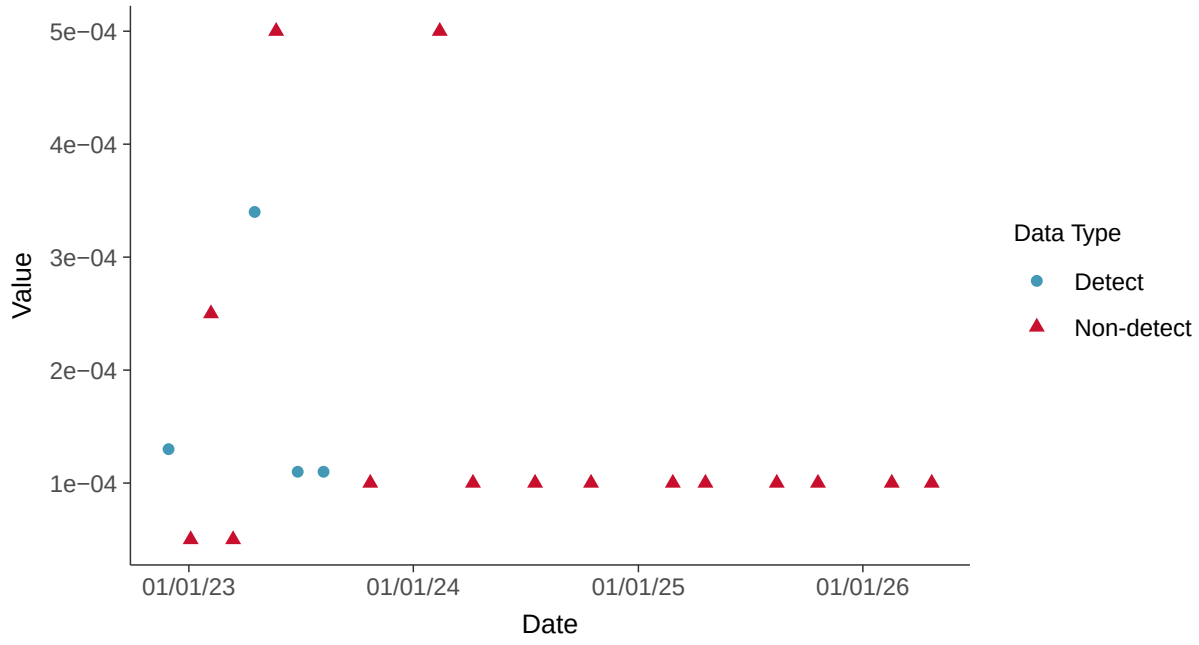


Appendix IV: Antimony, MW-10

ID: 20_3_4_101

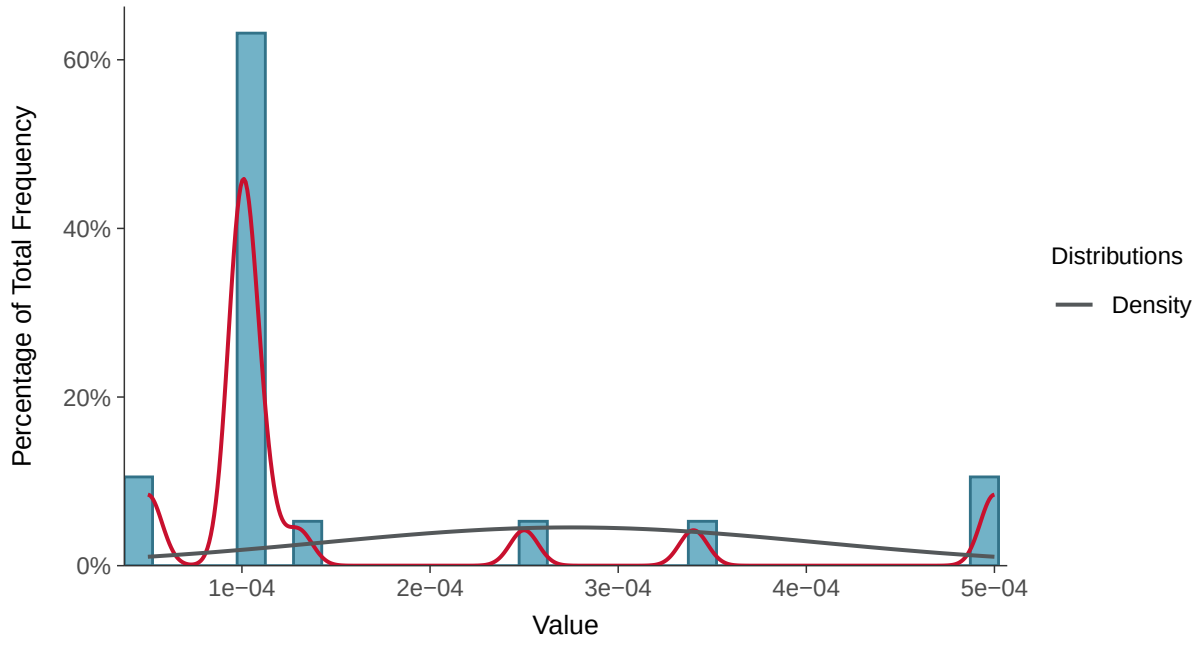
Scatter Plot

Antimony, MW-10 (mg/L)



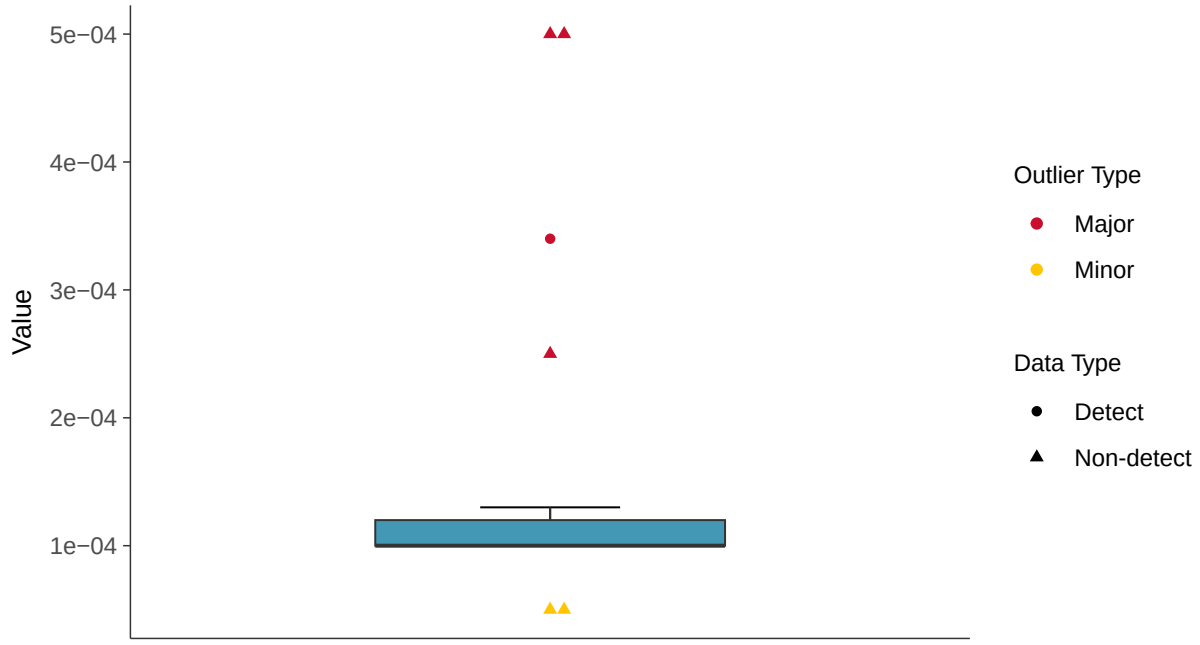
Histogram

Antimony, MW-10 (mg/L)



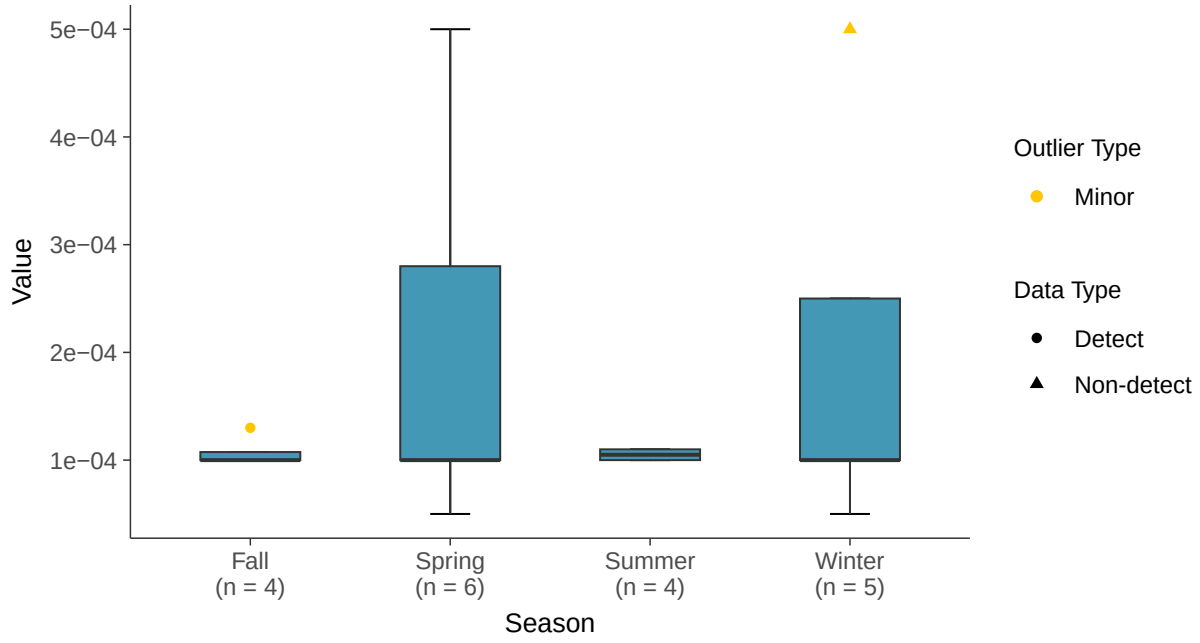
Boxplot

Antimony, MW-10 (mg/L)



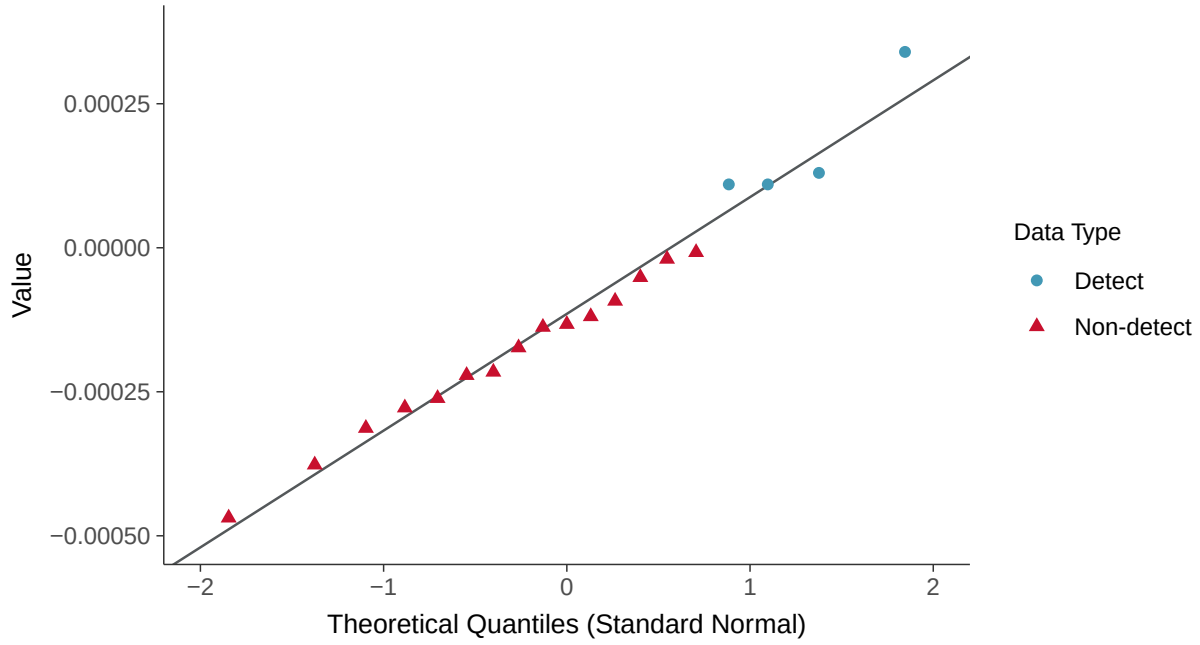
Boxplot by Season

Antimony, MW-10 (mg/L)



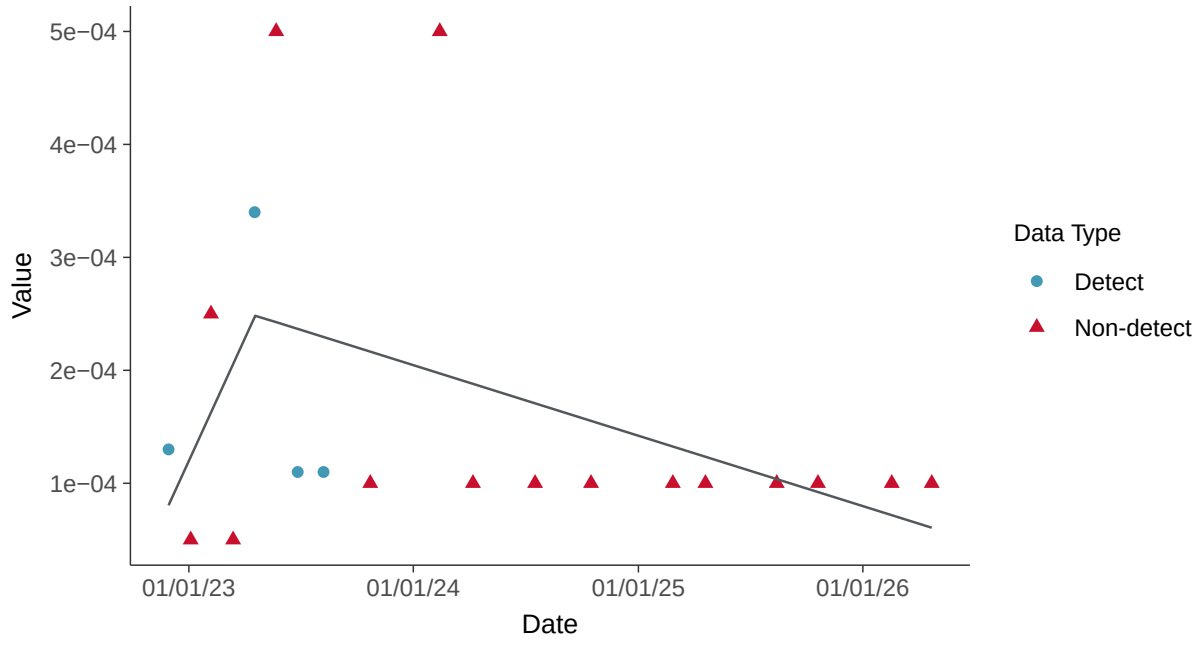
Normal Q-Q plot using ROS Imputed Estimates

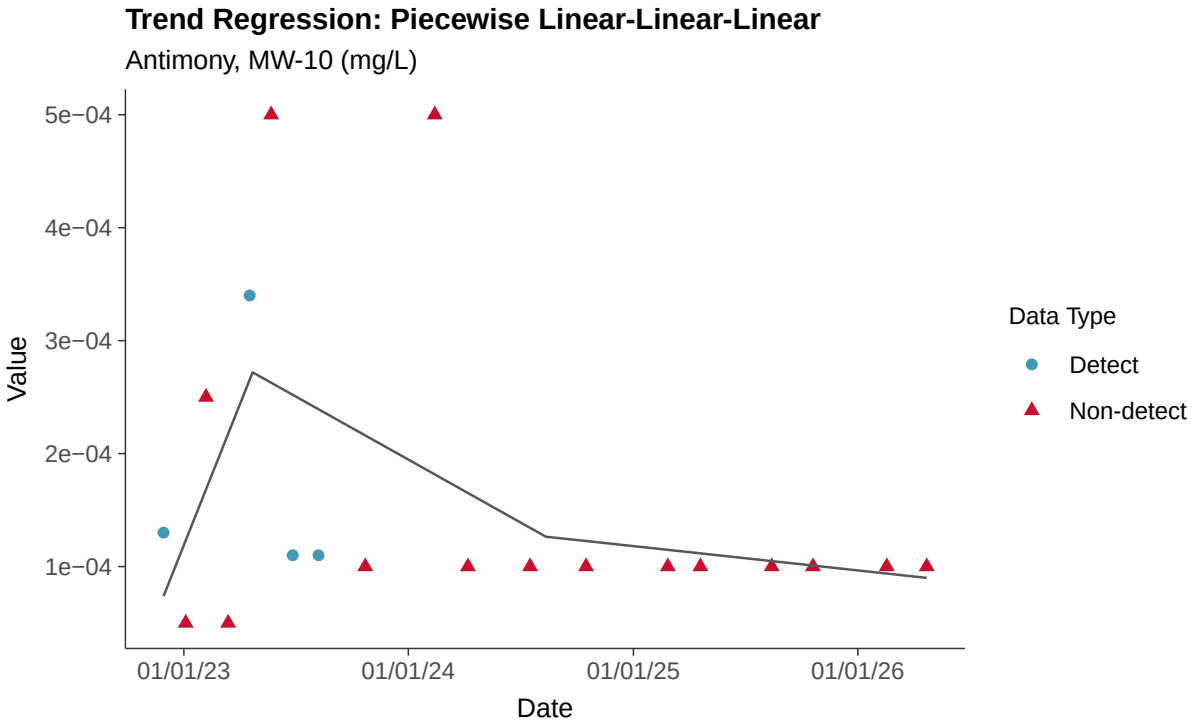
Antimony, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-10 (mg/L)



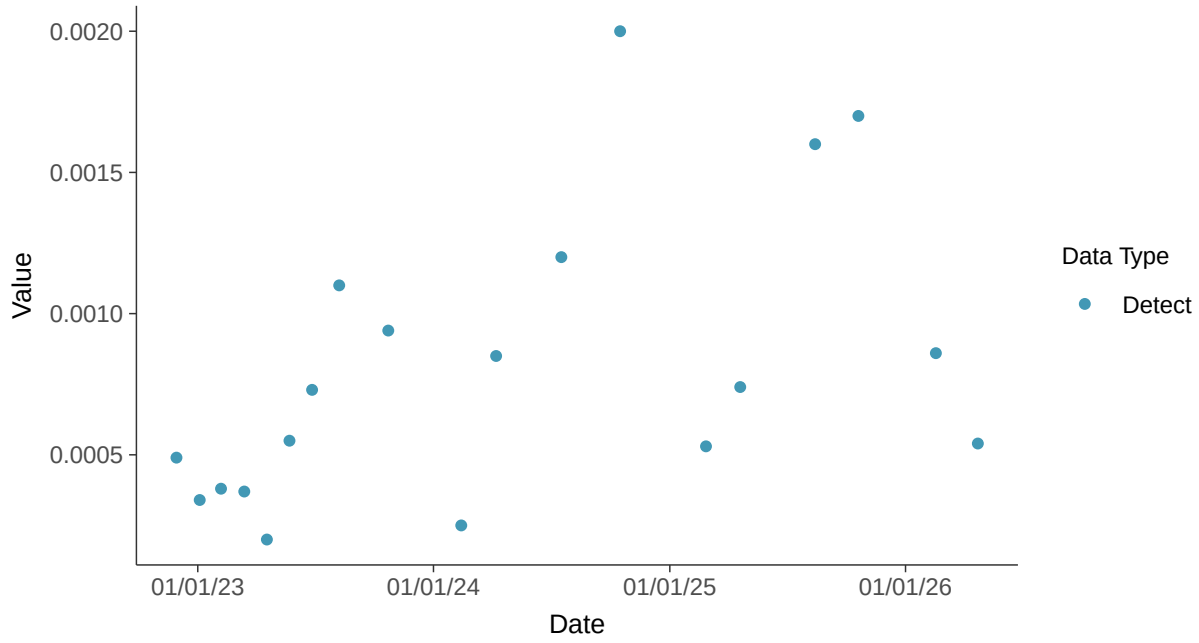

Trend Regression: Piecewise Linear-Linear-Linear
Antimony, MW-10 (mg/L)
5e−04
4e−04
3e−04
2e−04
1e−04
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Arsenic, MW-10

ID: 20_3_4_102

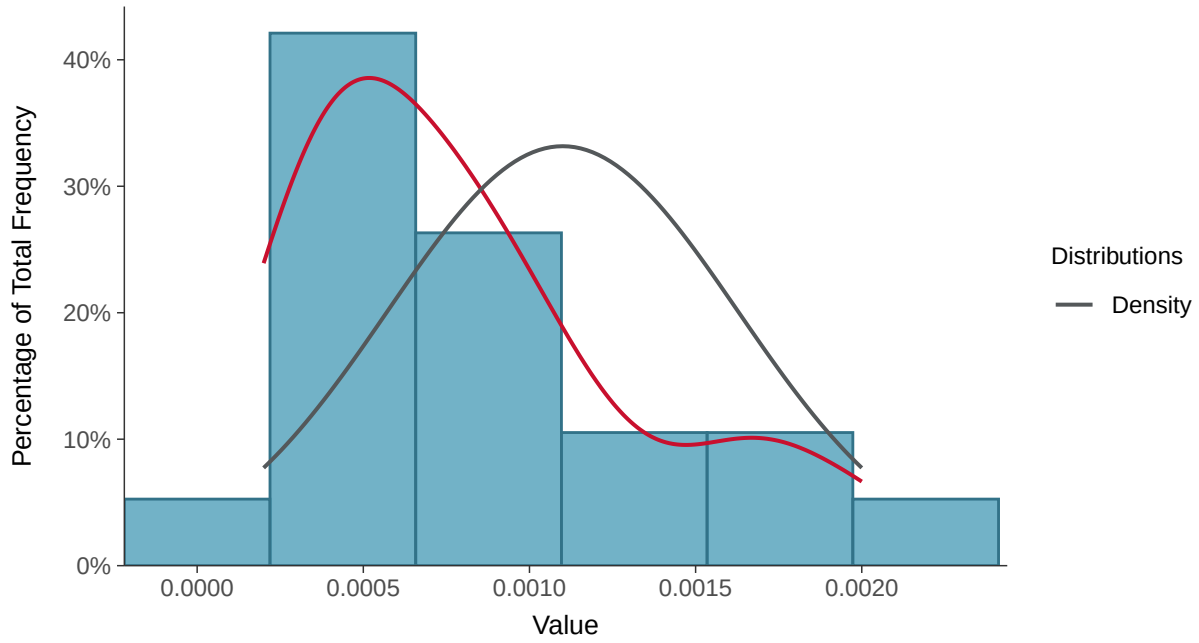
Scatter Plot

Arsenic, MW-10 (mg/L)



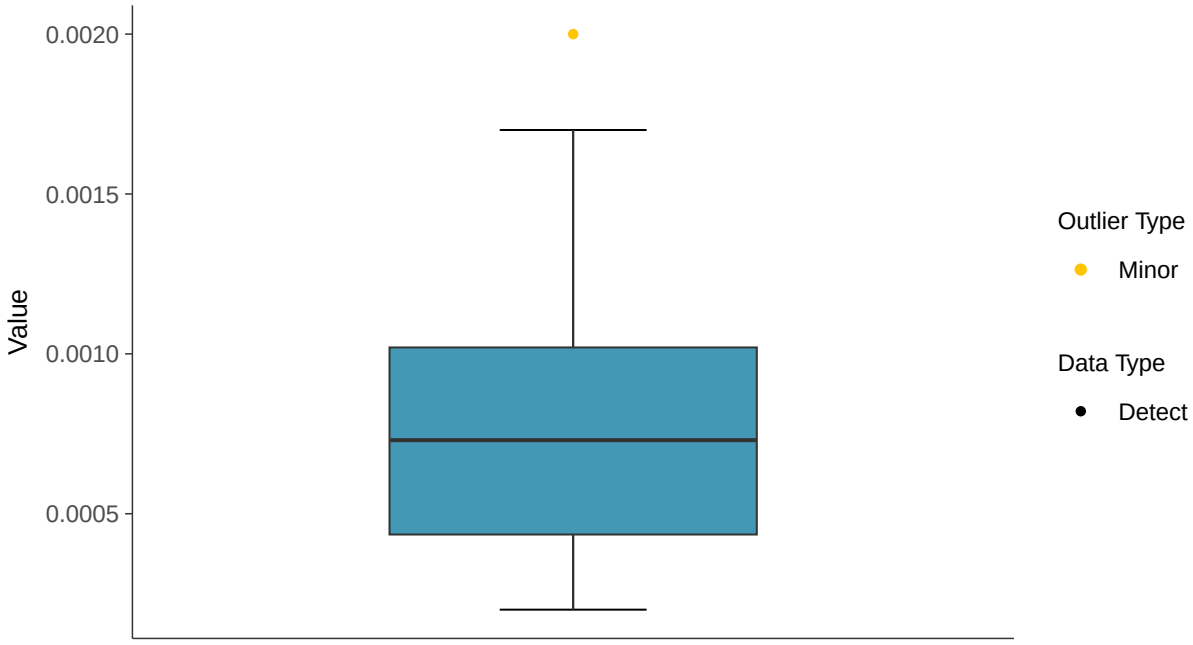
Histogram

Arsenic, MW-10 (mg/L)



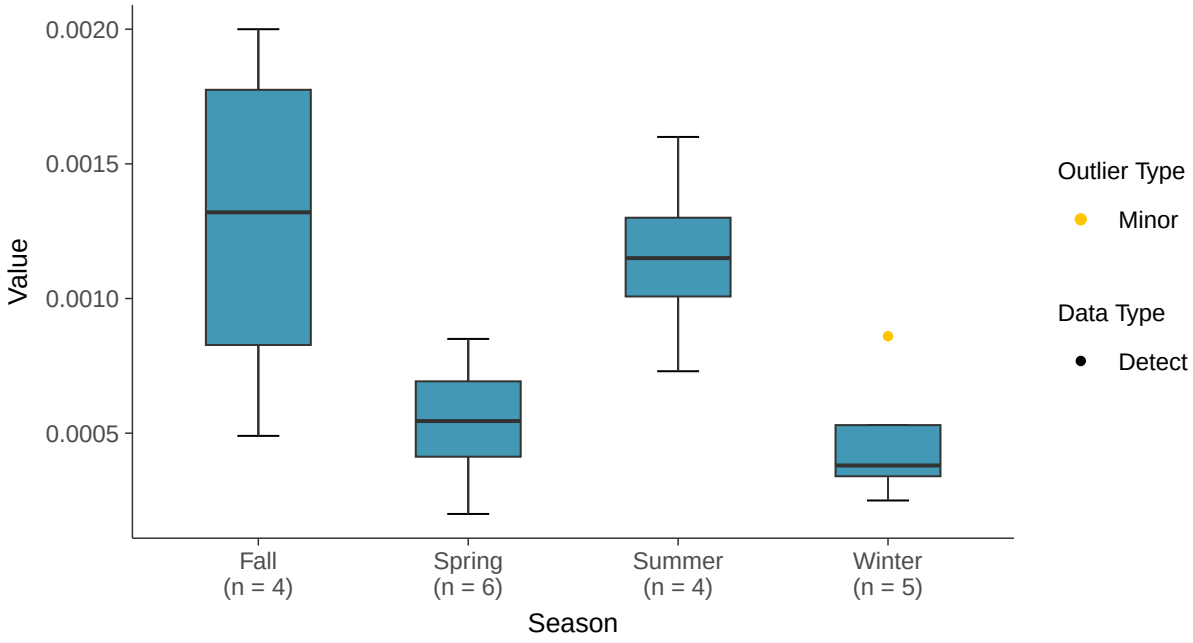
Boxplot

Arsenic, MW-10 (mg/L)



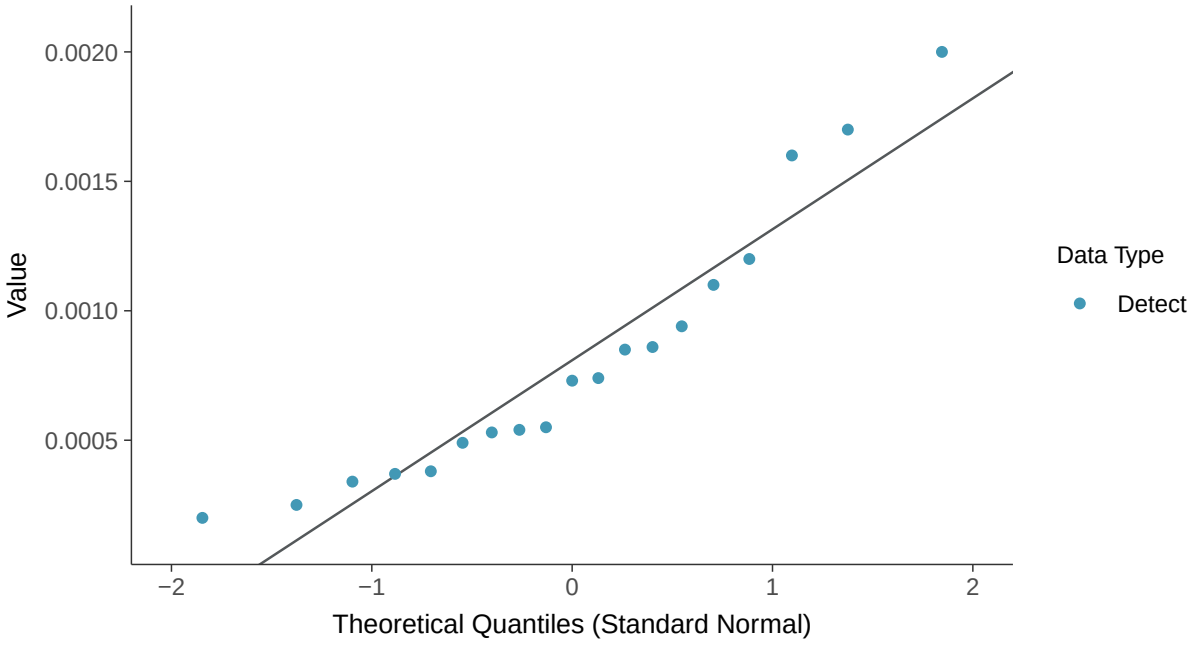
Boxplot by Season

Arsenic, MW-10 (mg/L)



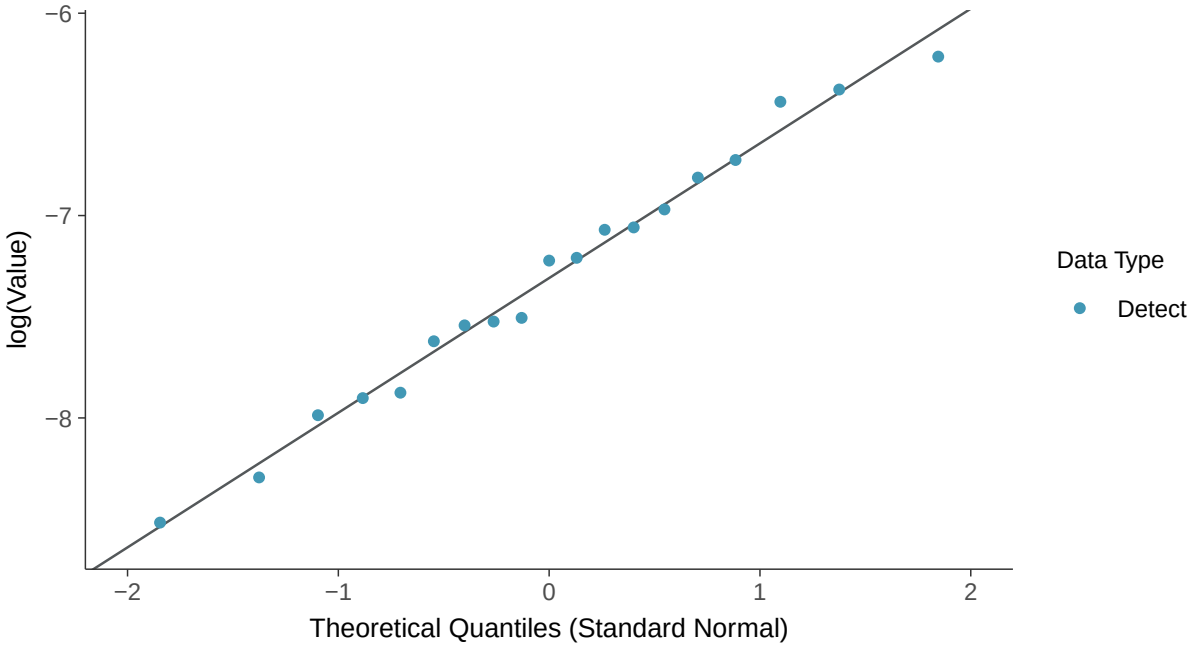
Normal Q-Q plot

Arsenic, MW-10 (mg/L)



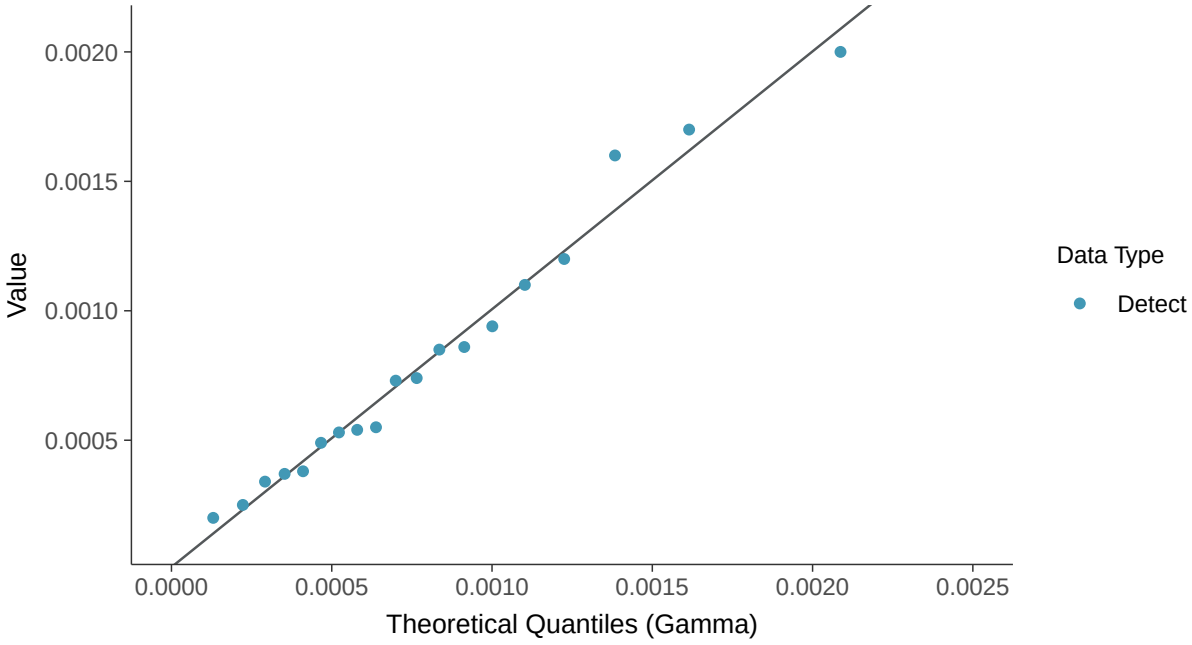
Lognormal Q-Q plot

Arsenic, MW-10 (mg/L)



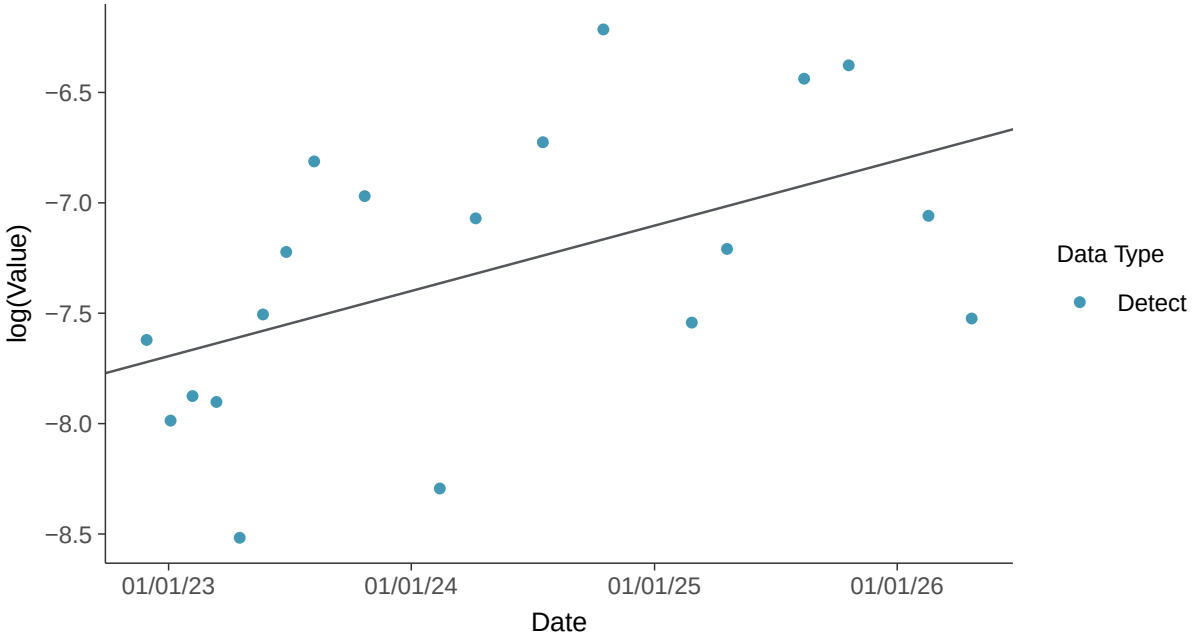
Gamma Q-Q plot

Arsenic, MW-10 (mg/L)



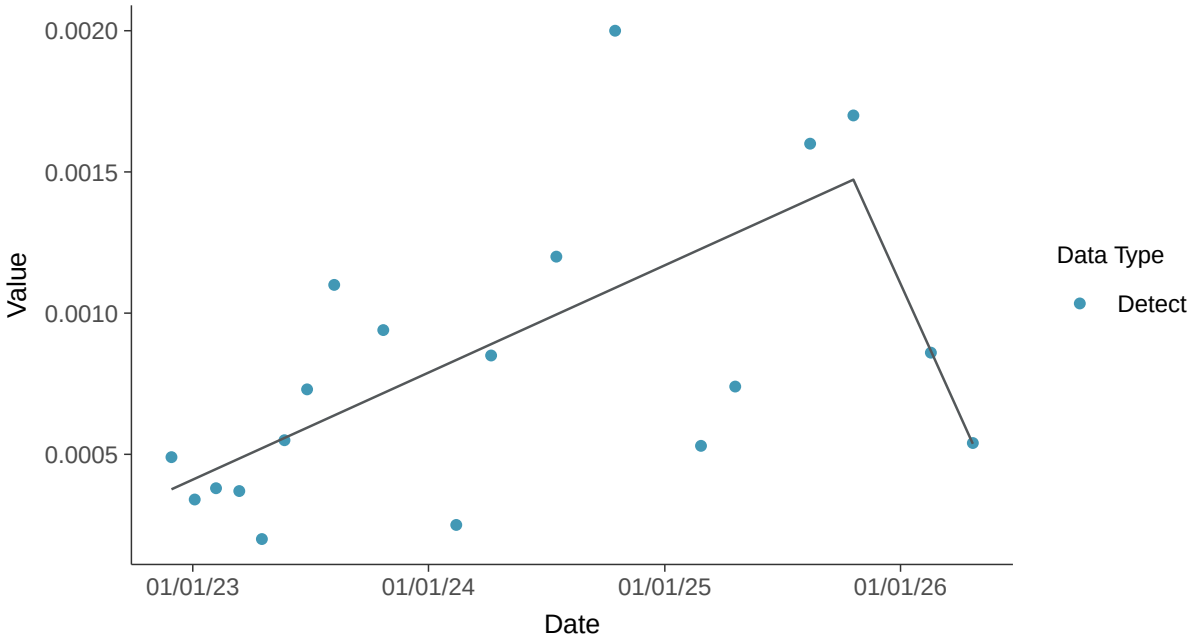
Trend Regression: Lognormal MLE

Arsenic, MW-10 (mg/L)



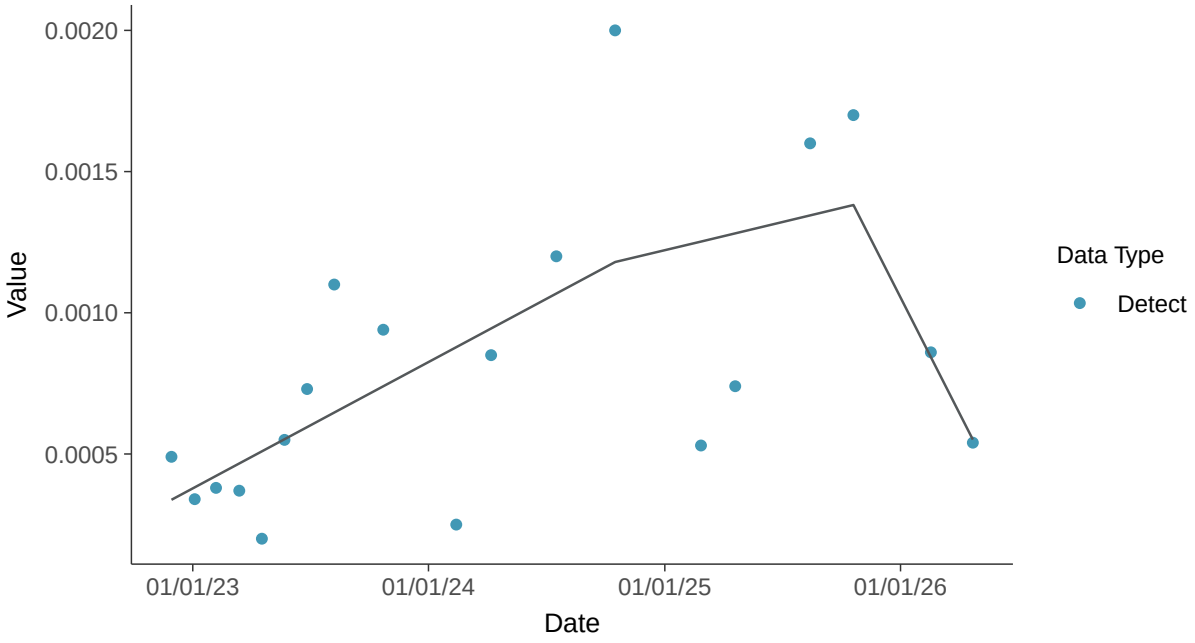
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-10 (mg/L)

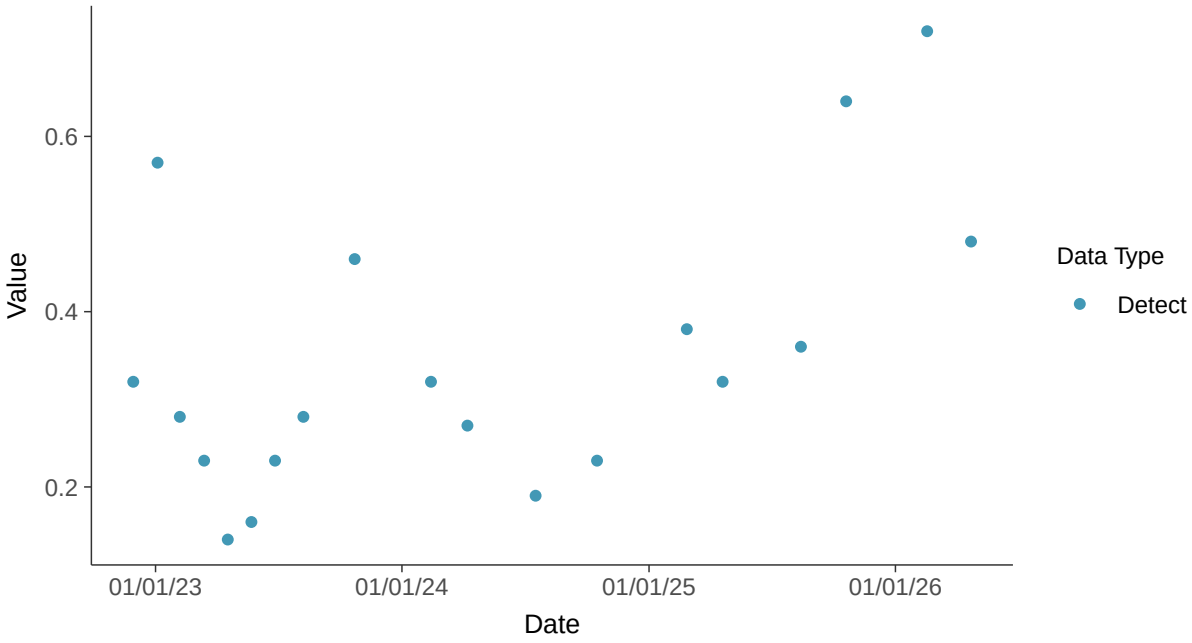


Appendix IV: Barium, MW-10

ID: 20_3_4_103

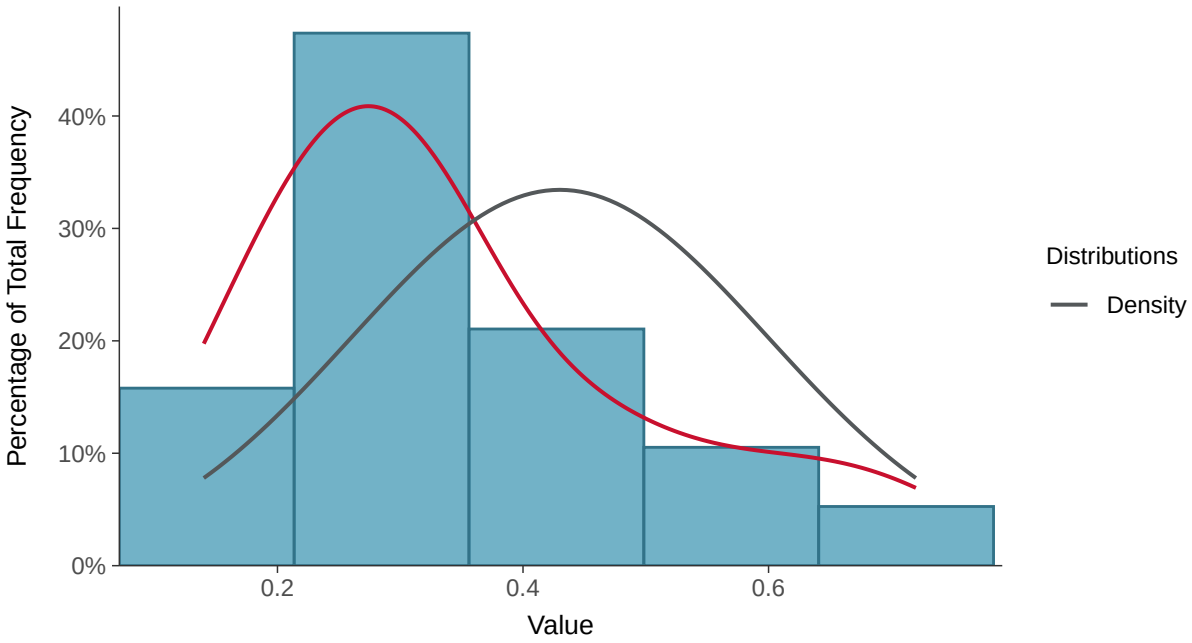
Scatter Plot

Barium, MW-10 (mg/L)



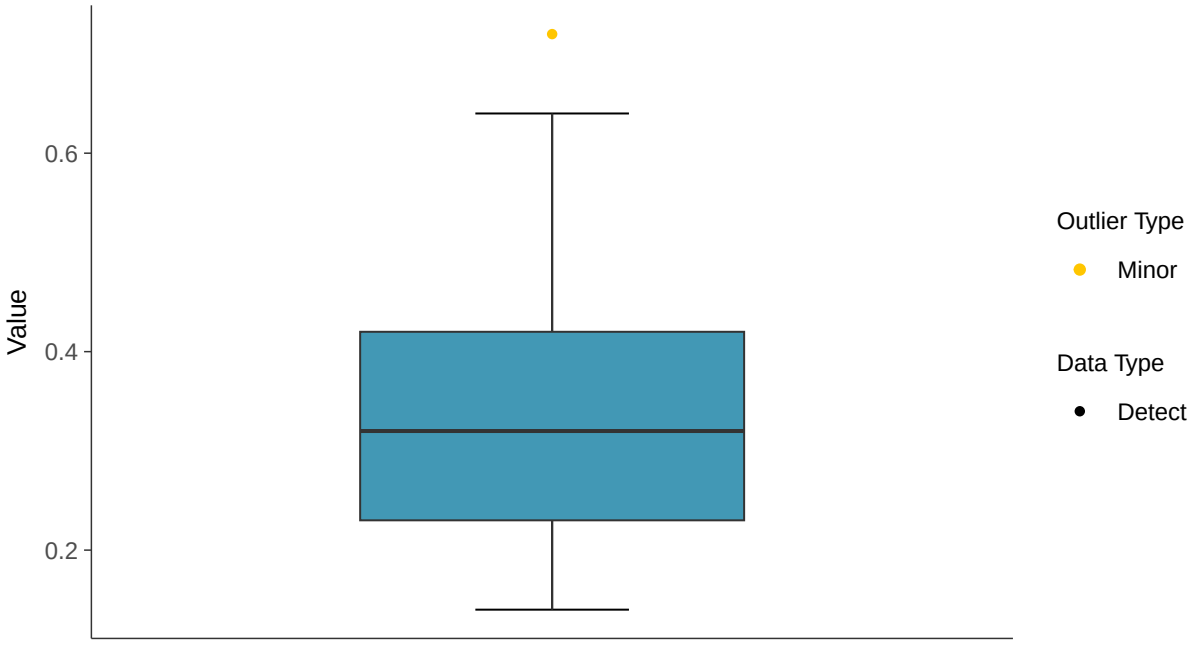
Histogram

Barium, MW-10 (mg/L)



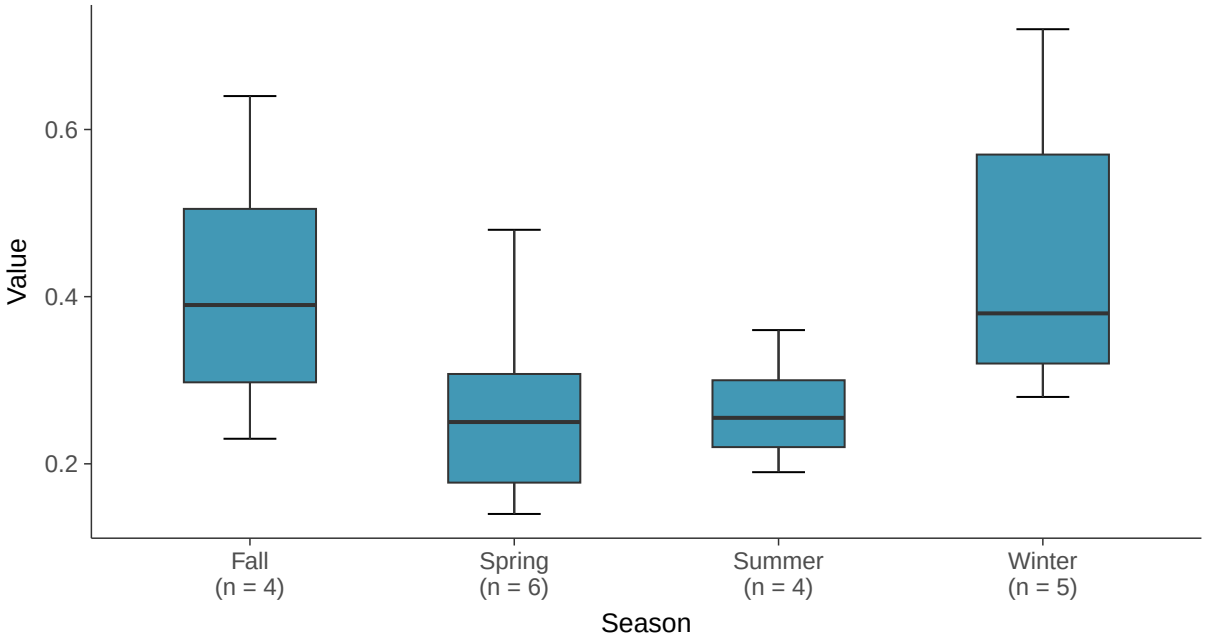
Boxplot

Barium, MW-10 (mg/L)



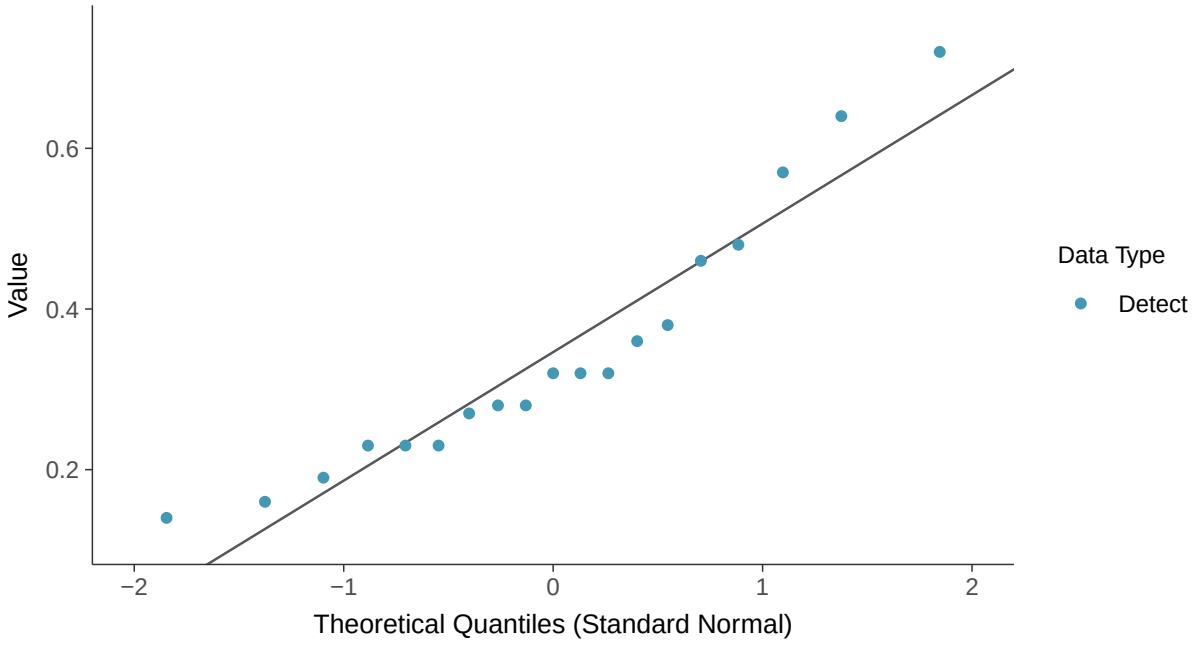
Boxplot by Season

Barium, MW-10 (mg/L)



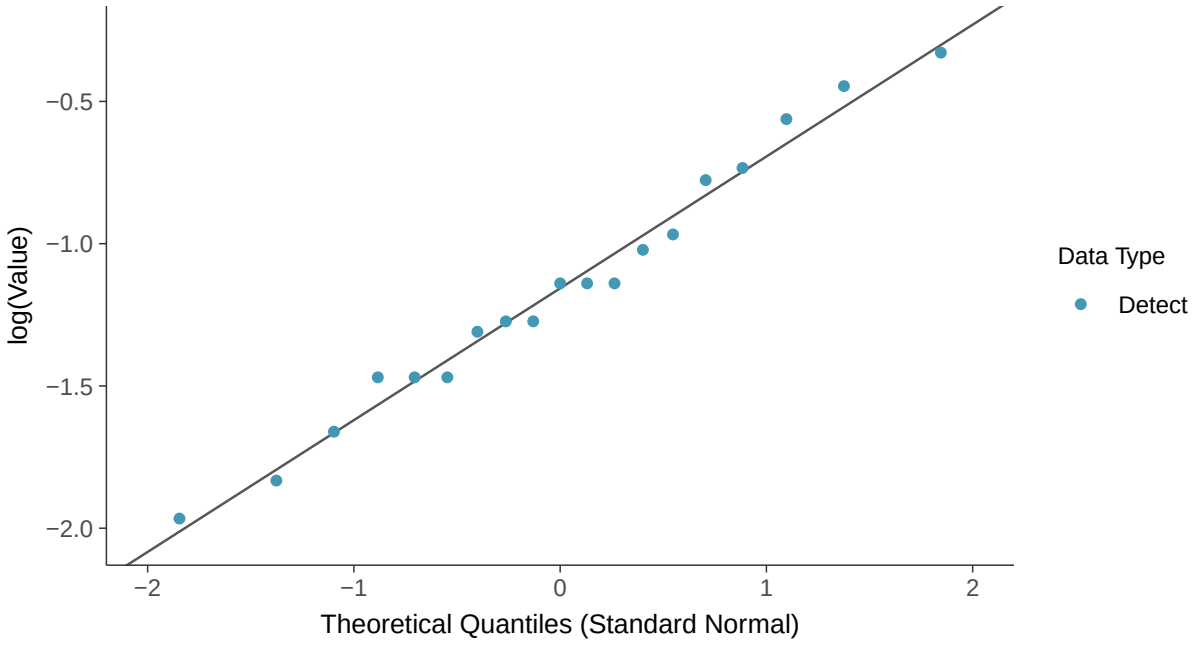
Normal Q-Q plot

Barium, MW-10 (mg/L)



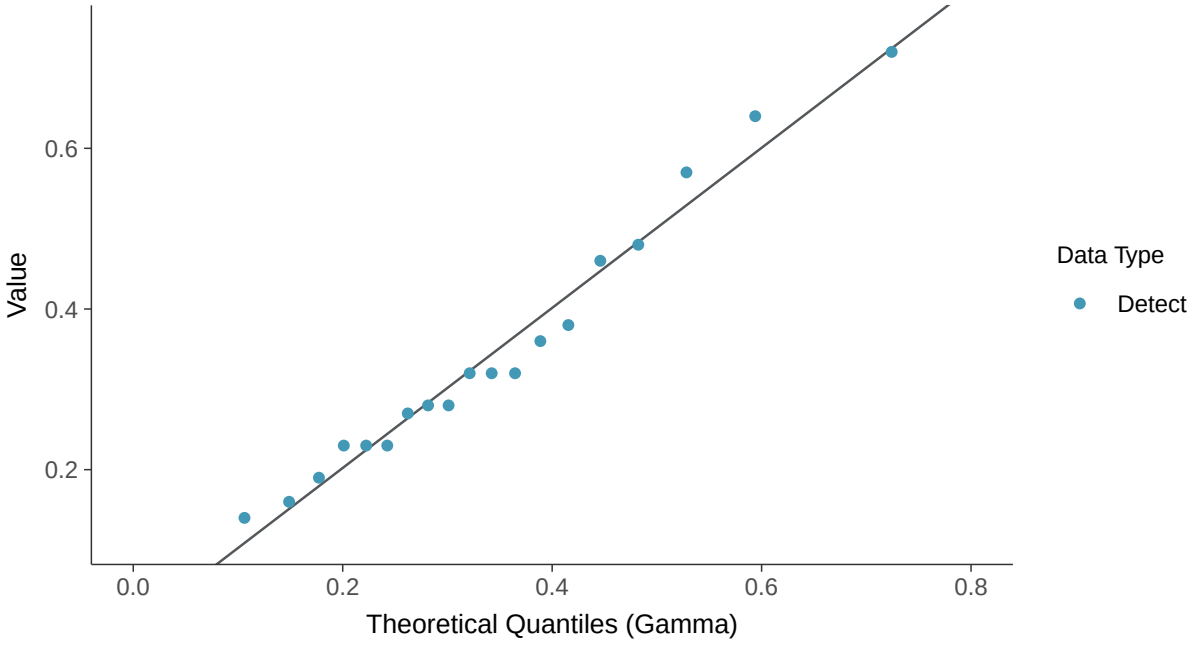
Lognormal Q-Q plot

Barium, MW-10 (mg/L)



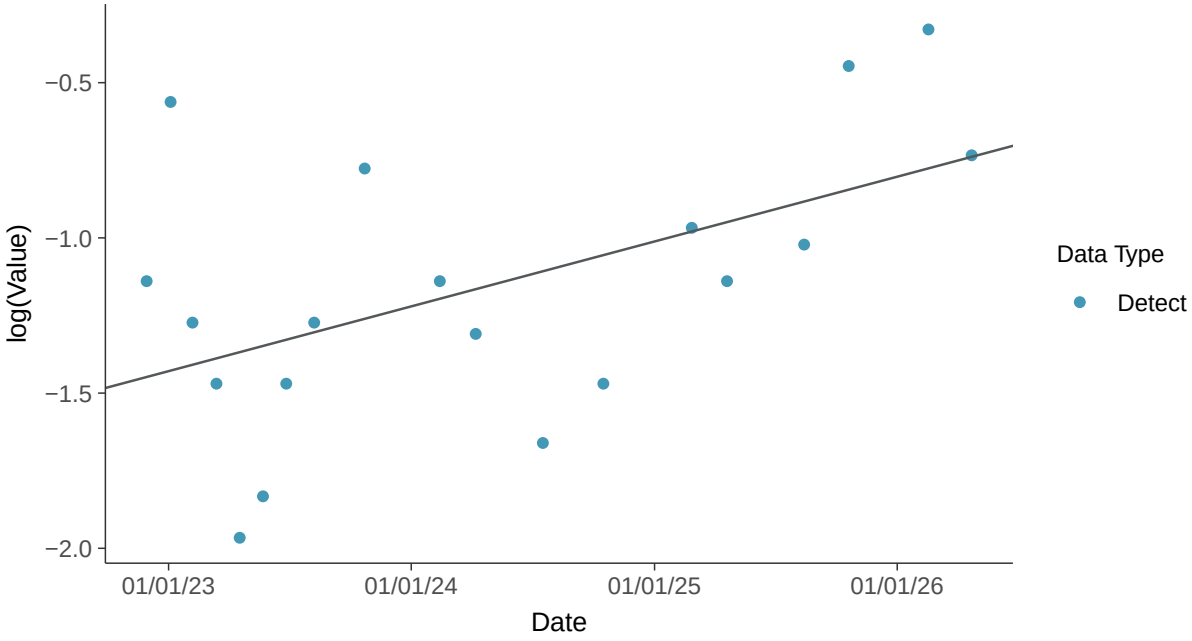
Gamma Q-Q plot

Barium, MW-10 (mg/L)



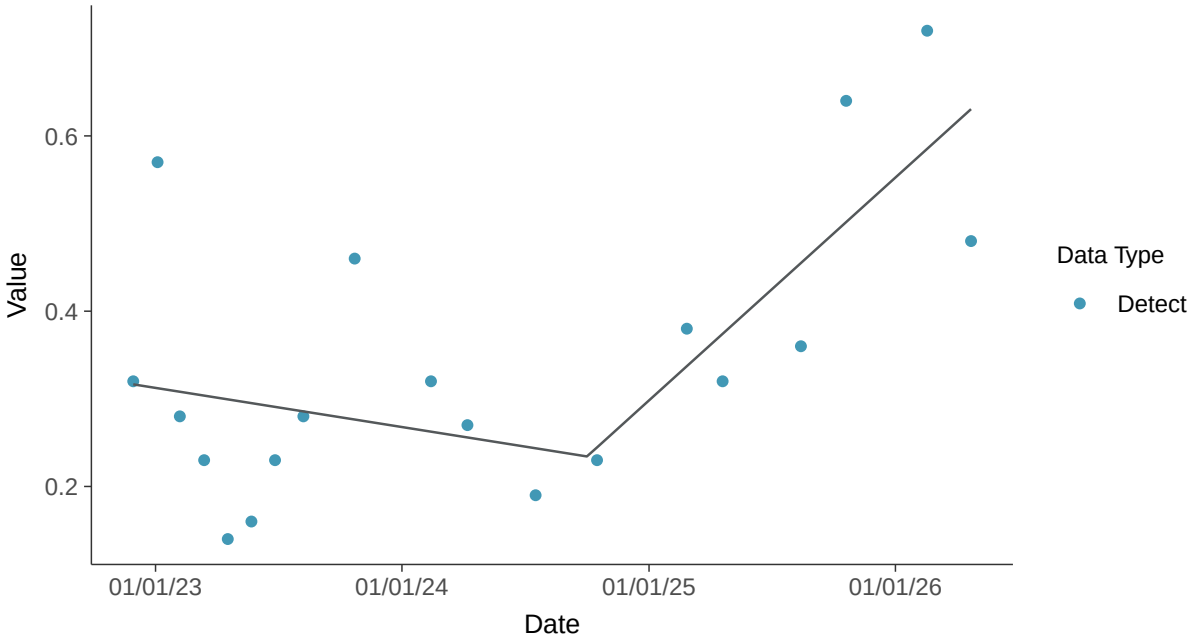
Trend Regression: Lognormal MLE

Barium, MW-10 (mg/L)



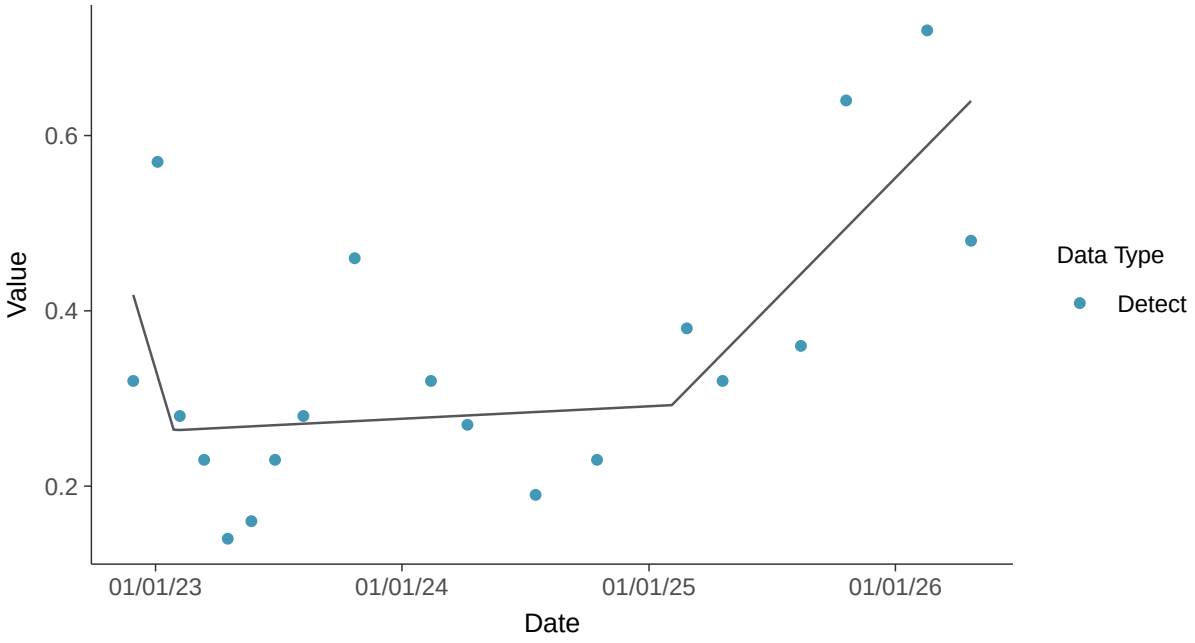
Trend Regression: Piecewise Linear-Linear

Barium, MW-10 (mg/L)



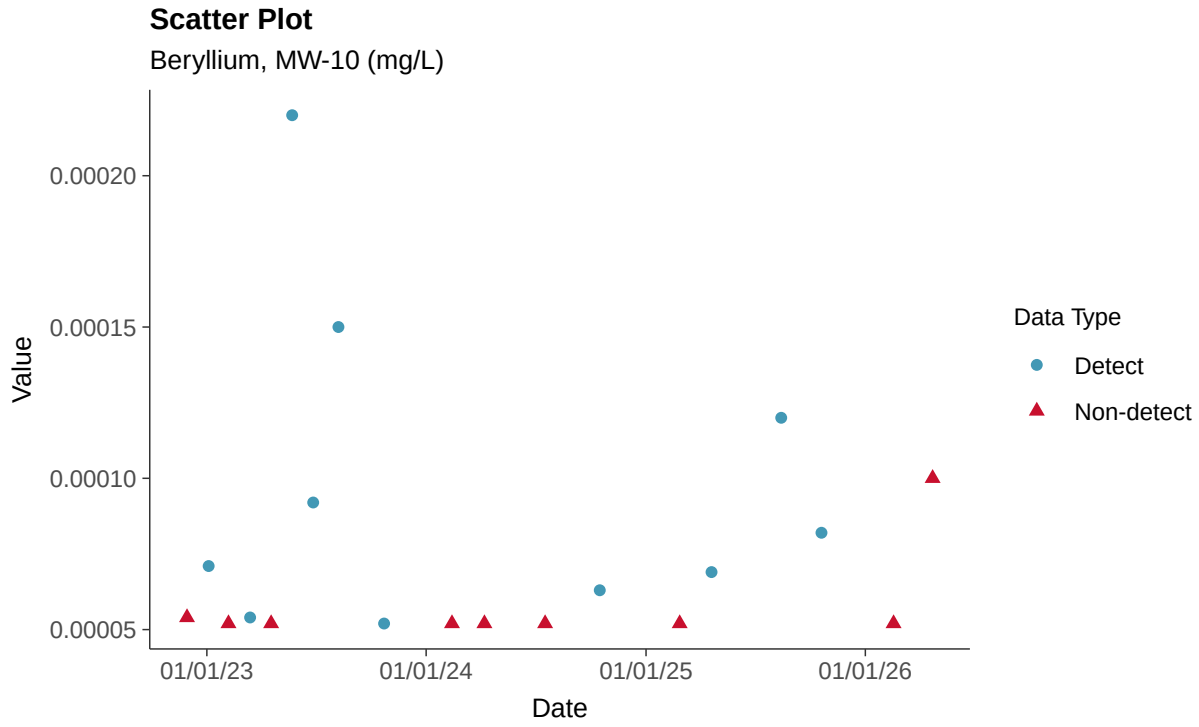
Trend Regression: Piecewise Linear-Linear-Linear

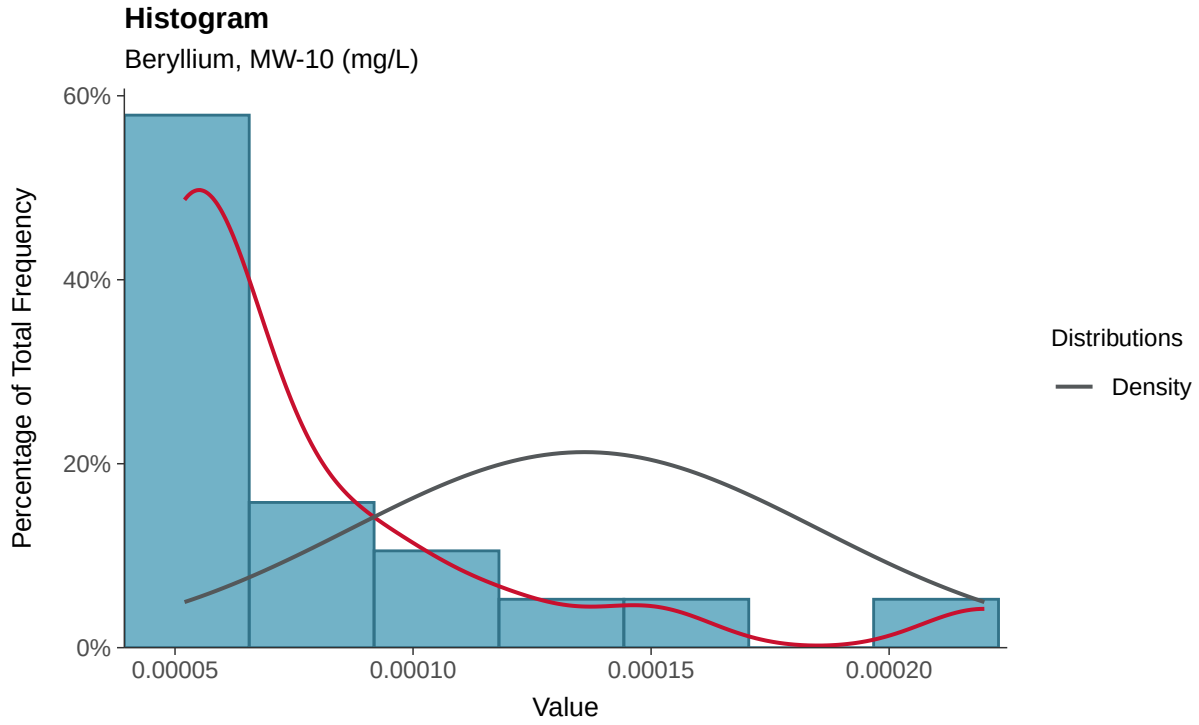
Barium, MW-10 (mg/L)



Appendix IV: Beryllium, MW-10

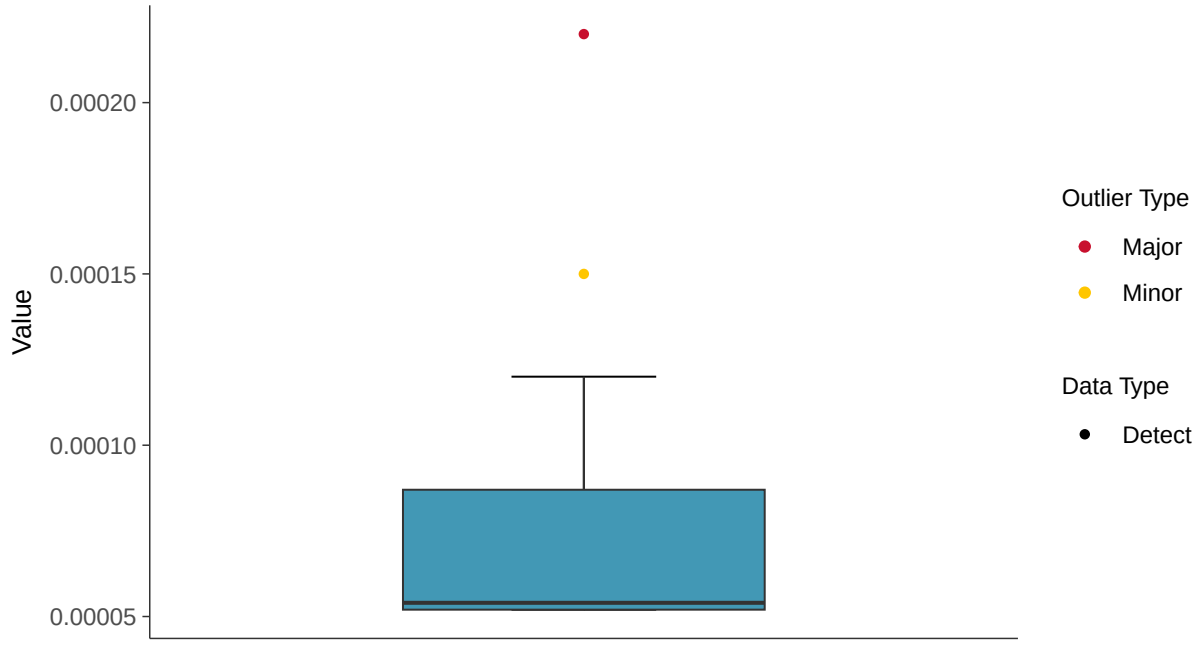
ID: 20_3_4_104





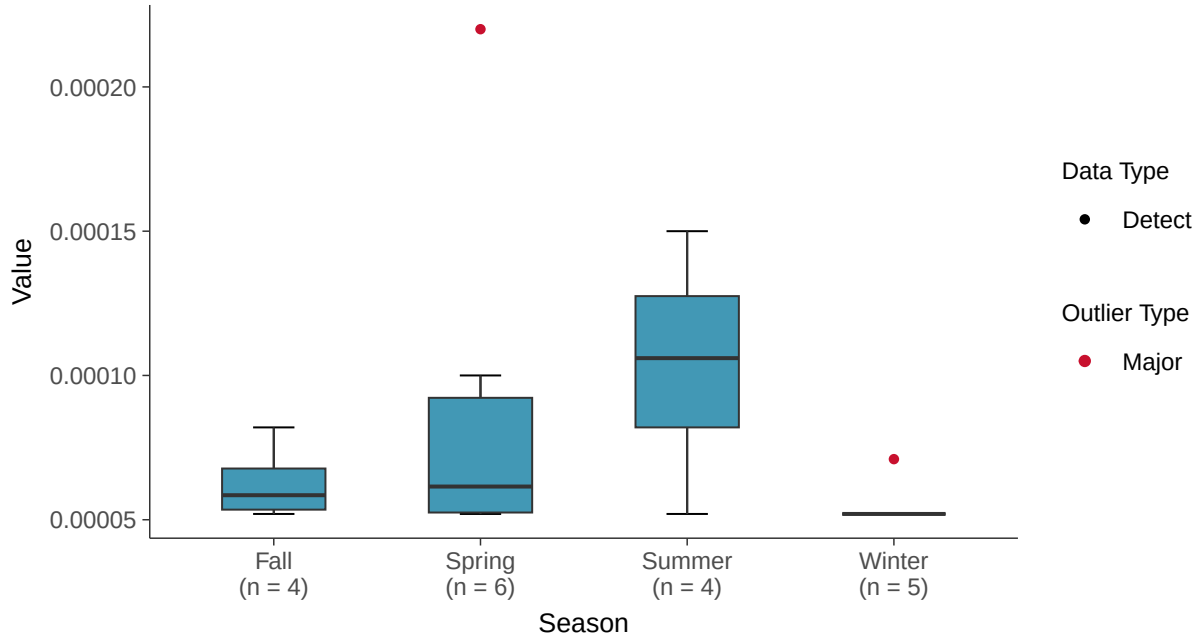
Boxplot

Beryllium, MW-10 (mg/L)



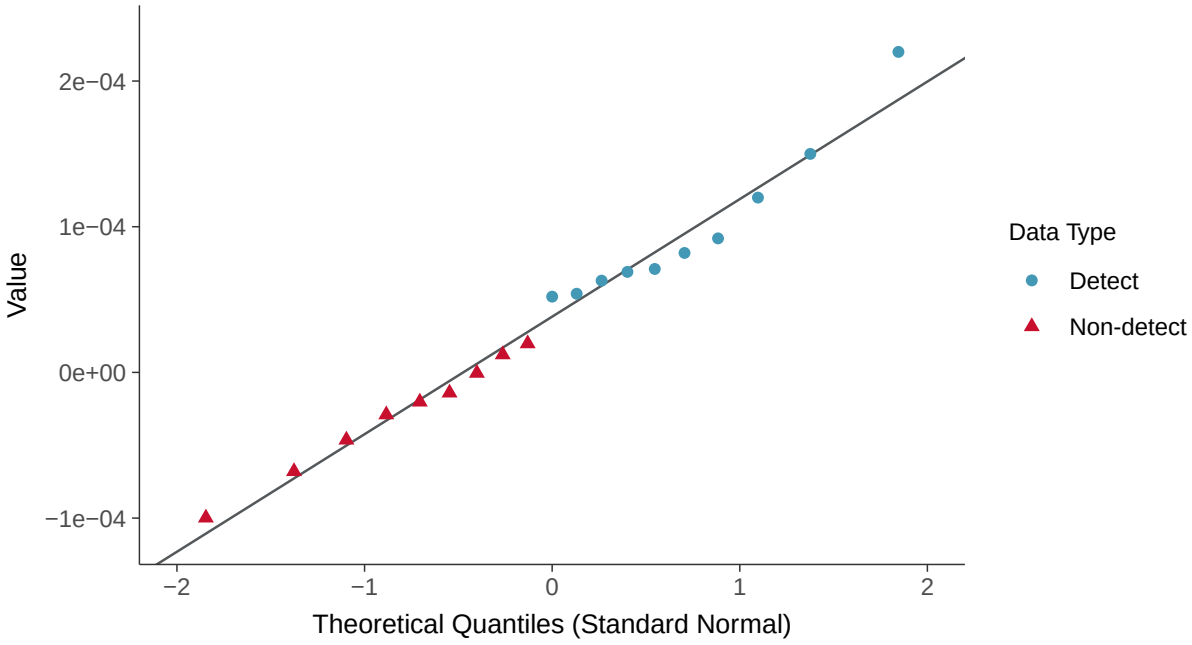
Boxplot by Season

Beryllium, MW-10 (mg/L)



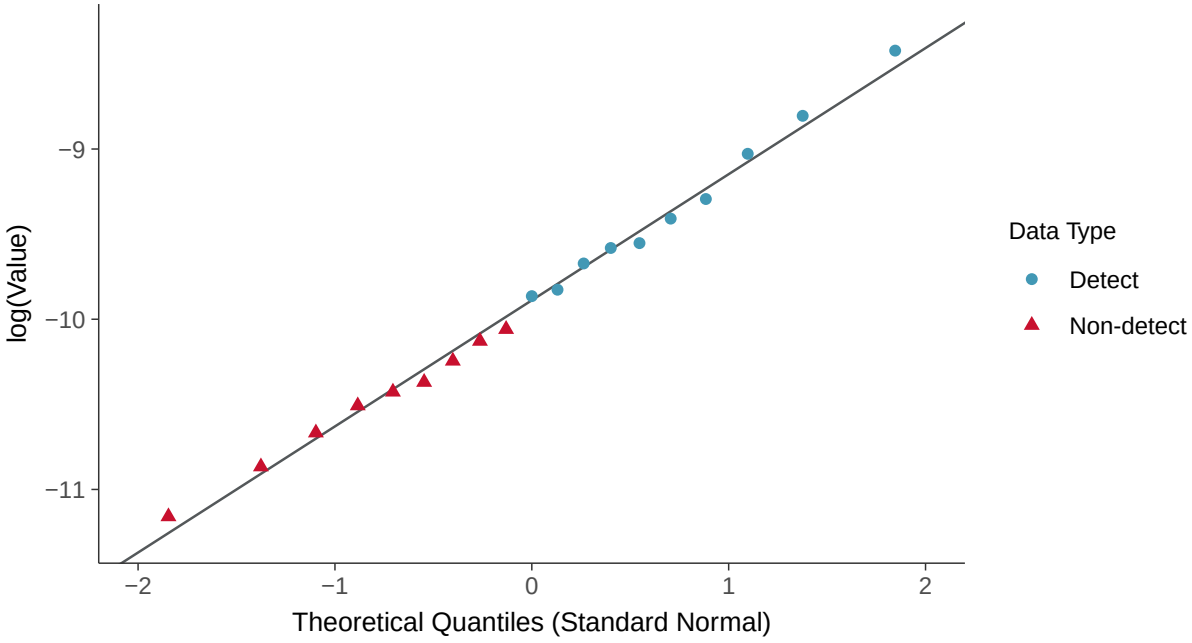
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-10 (mg/L)



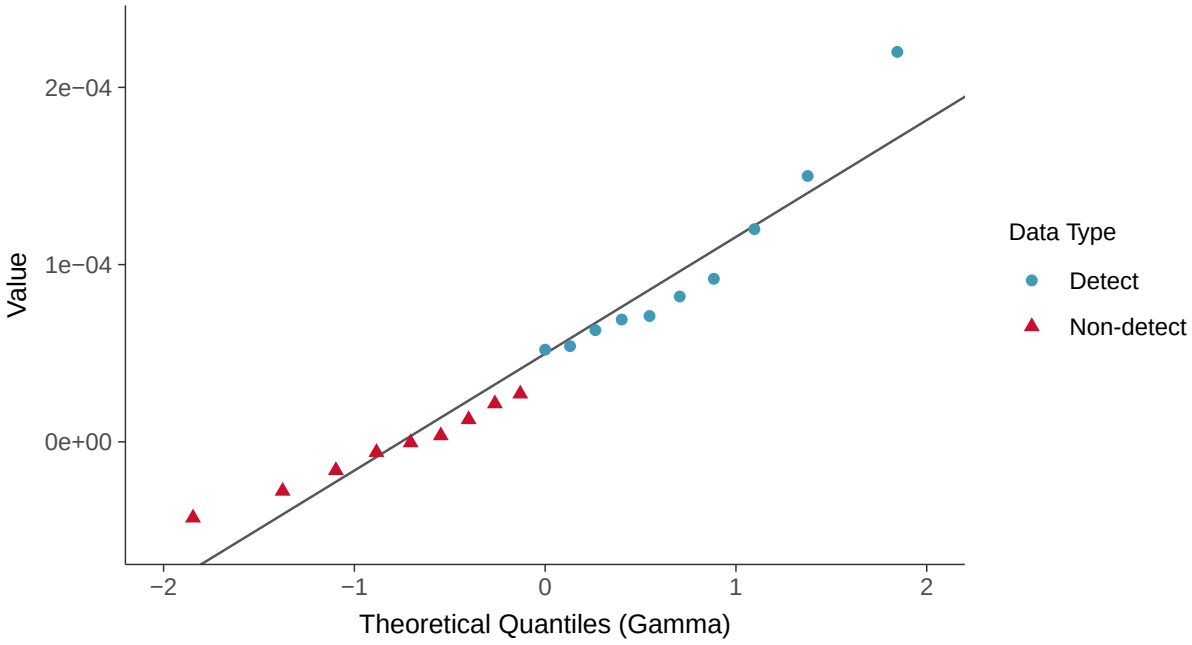
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-10 (mg/L)



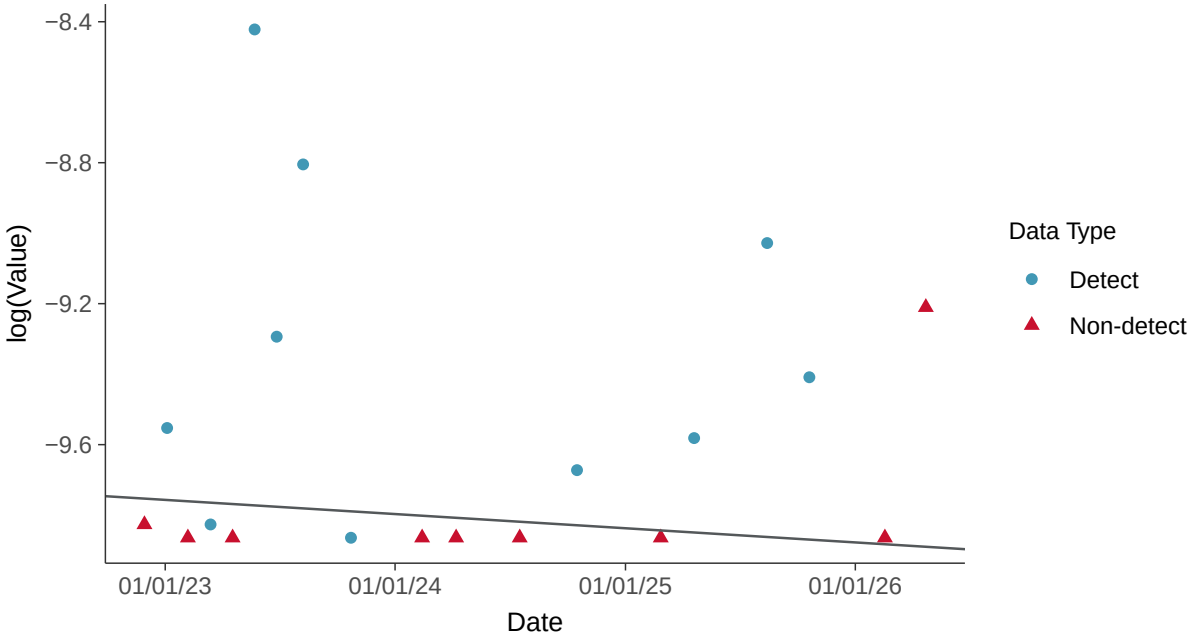
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-10 (mg/L)



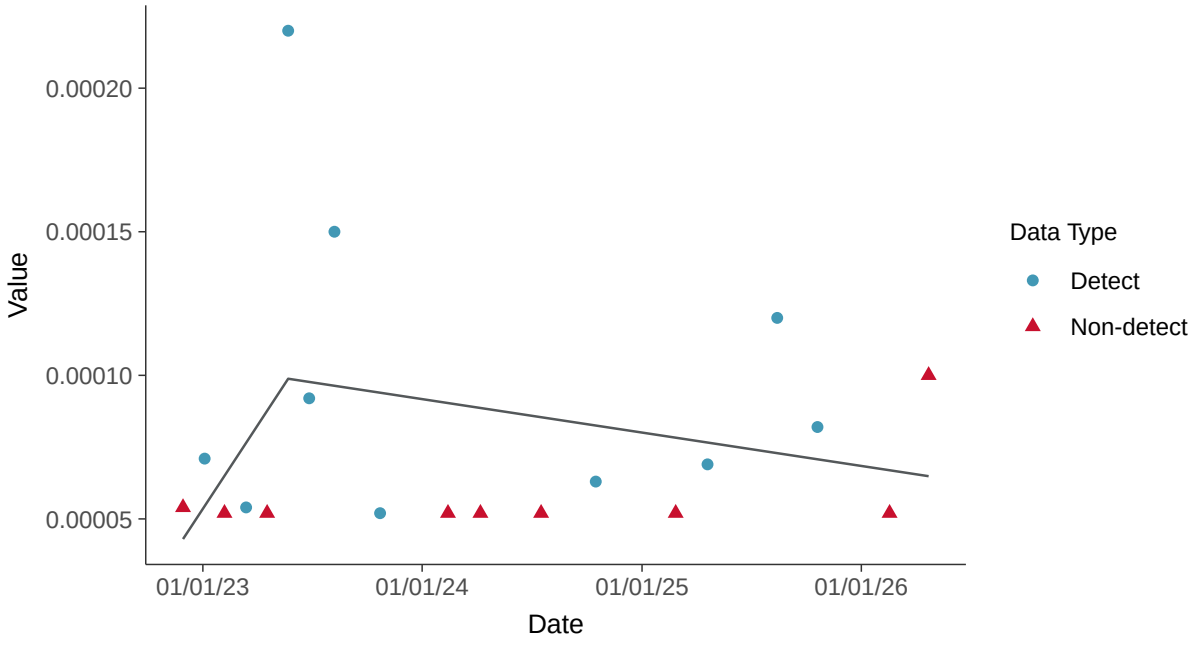
Trend Regression: Lognormal MLE

Beryllium, MW-10 (mg/L)



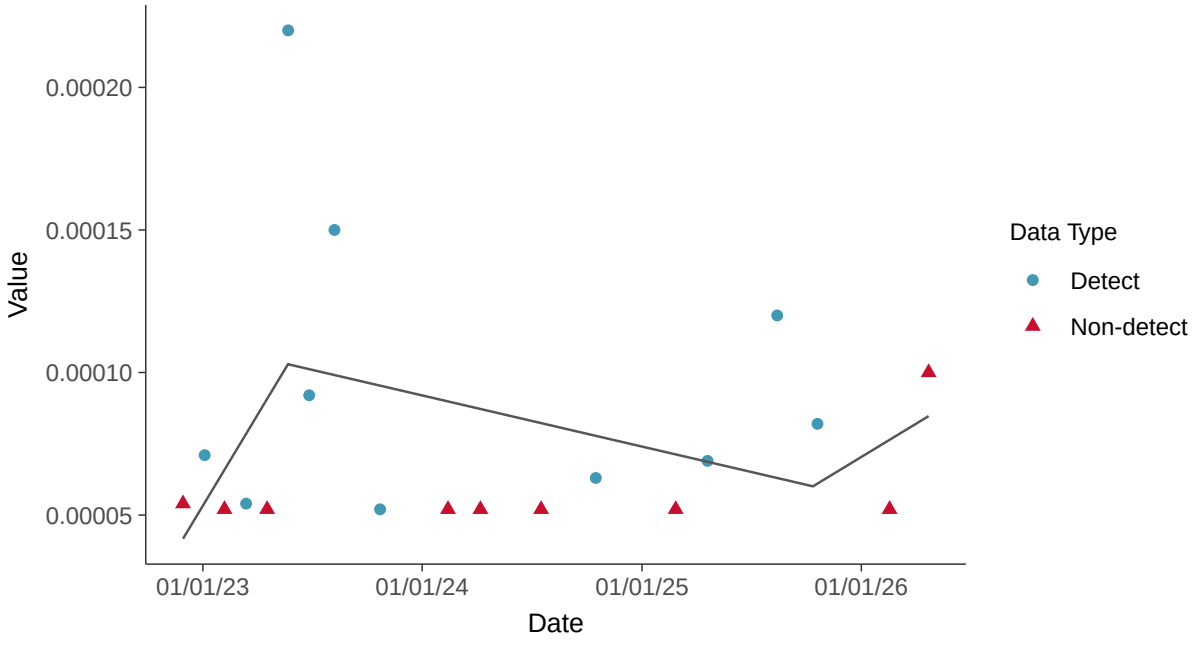
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Beryllium, MW-10 (mg/L)

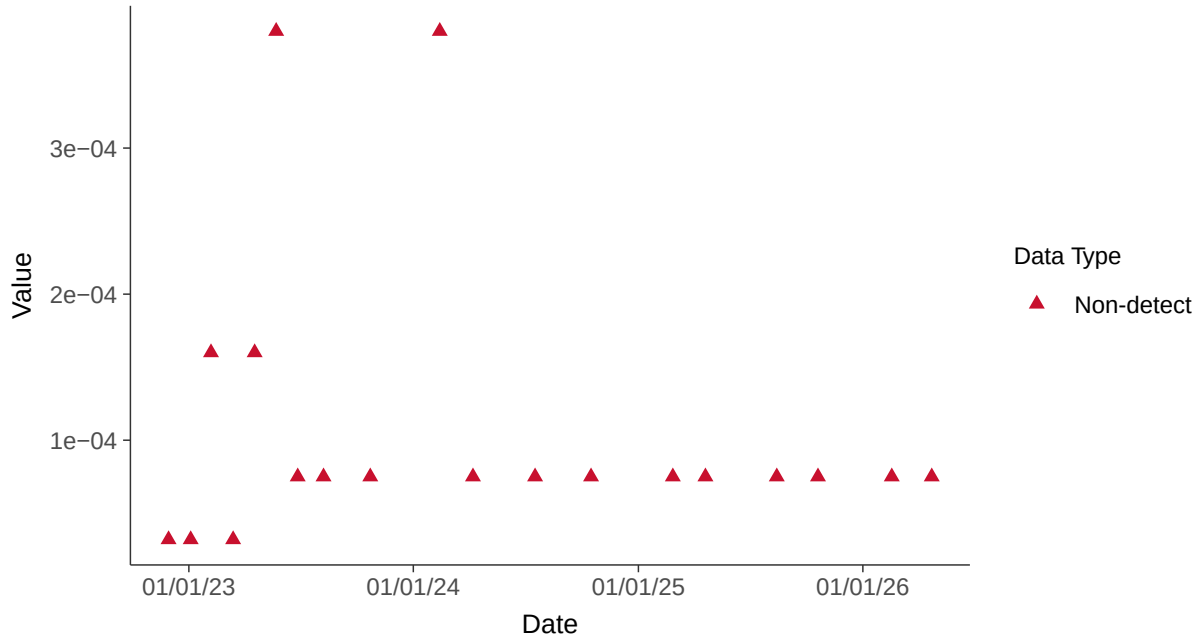


Appendix IV: Cadmium, MW-10

ID: 20_3_4_106

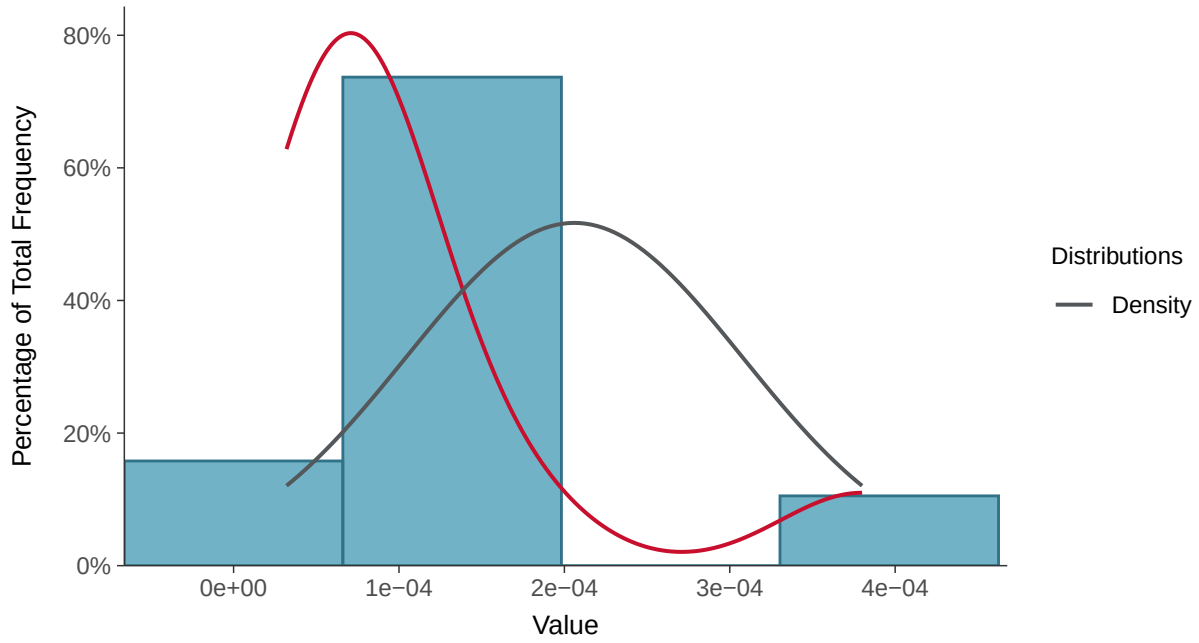
Scatter Plot

Cadmium, MW-10 (mg/L)



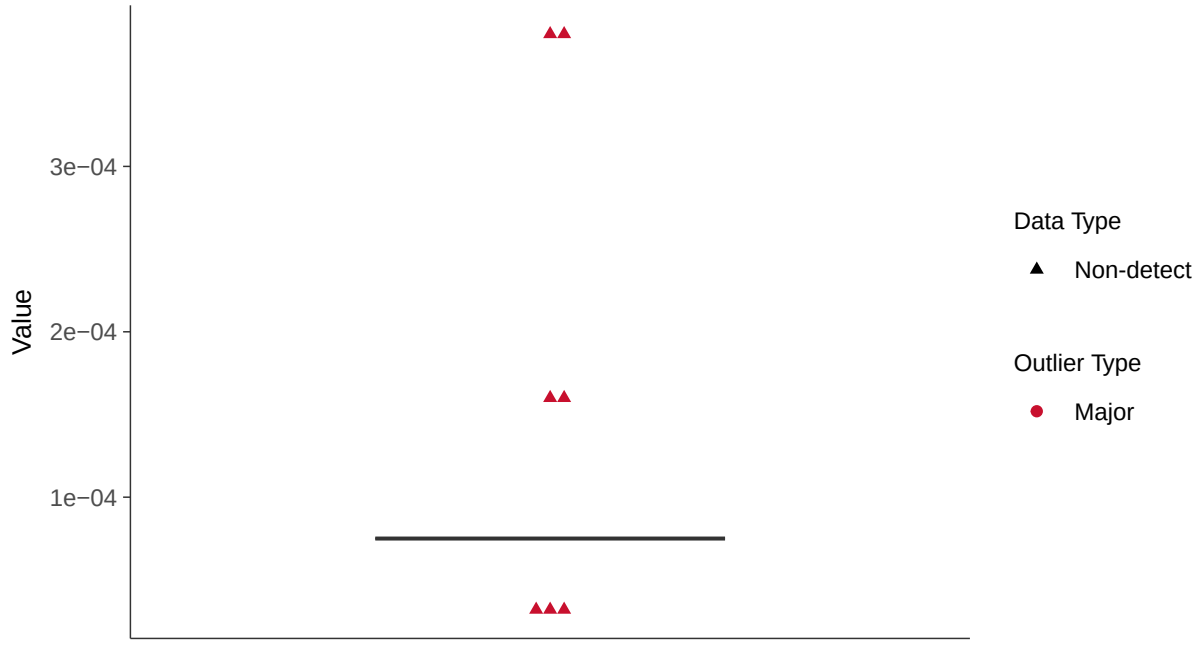
Histogram

Cadmium, MW-10 (mg/L)



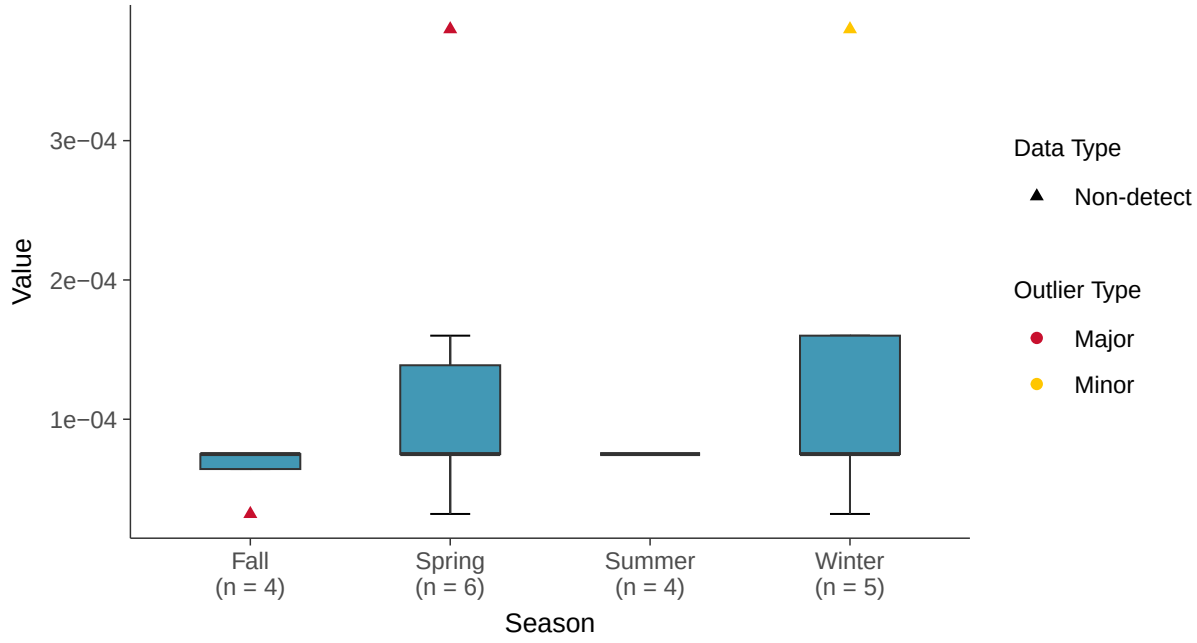
Boxplot

Cadmium, MW-10 (mg/L)



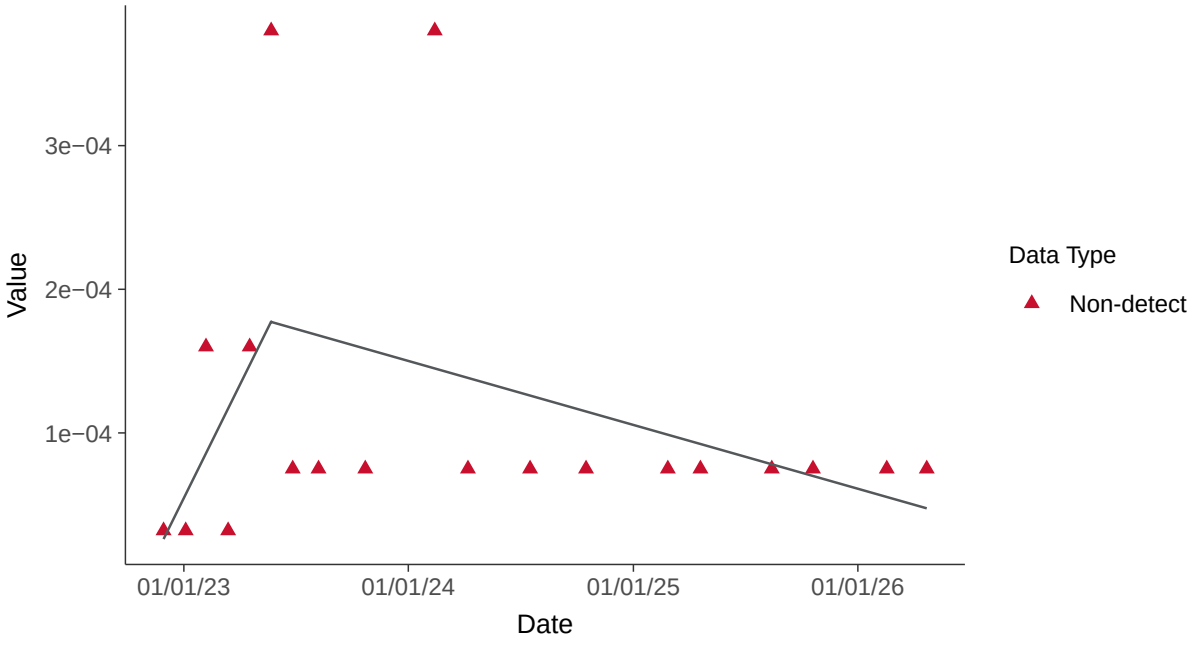
Boxplot by Season

Cadmium, MW-10 (mg/L)



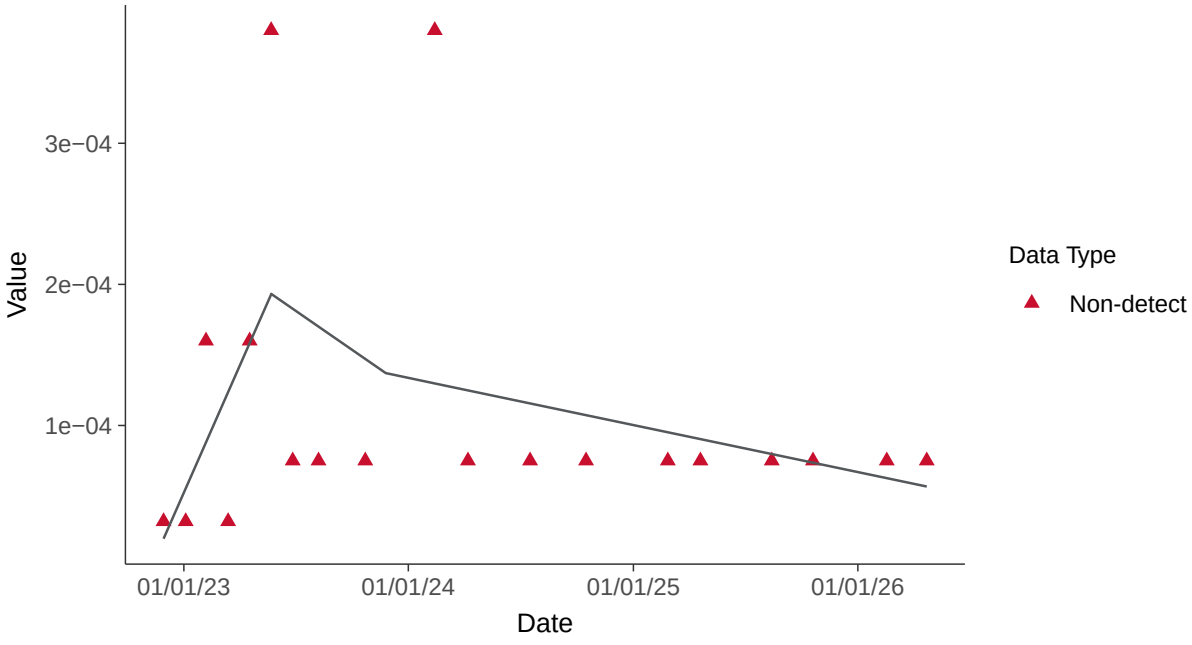
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-10 (mg/L)

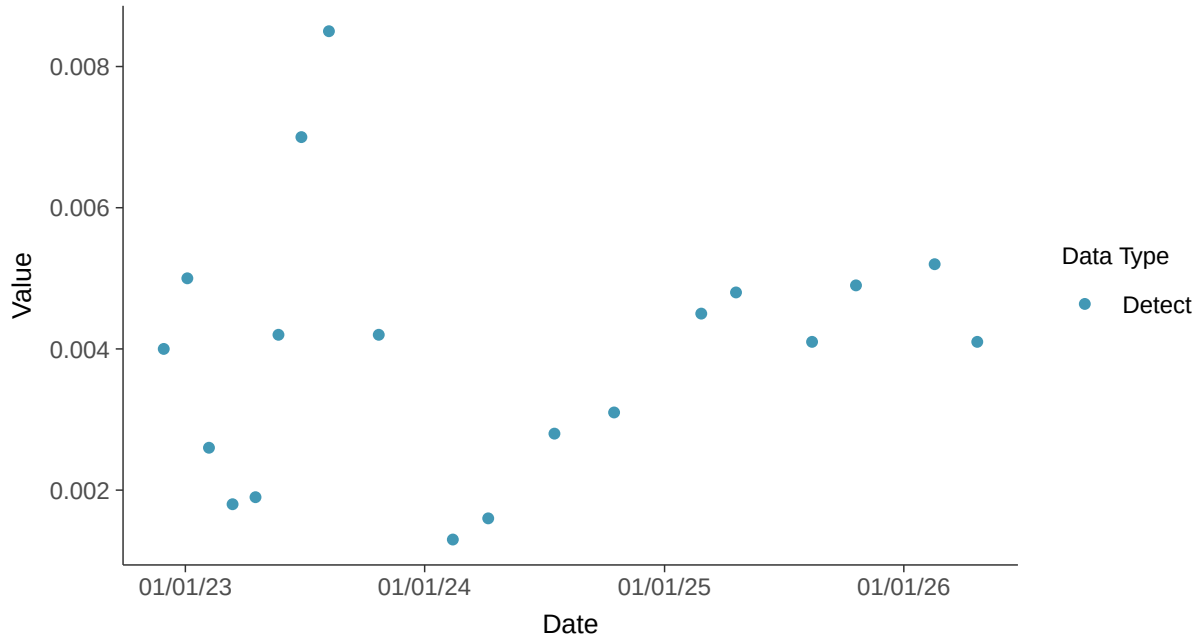


Appendix IV: Chromium, Total, MW-10

ID: 20_3_4_109

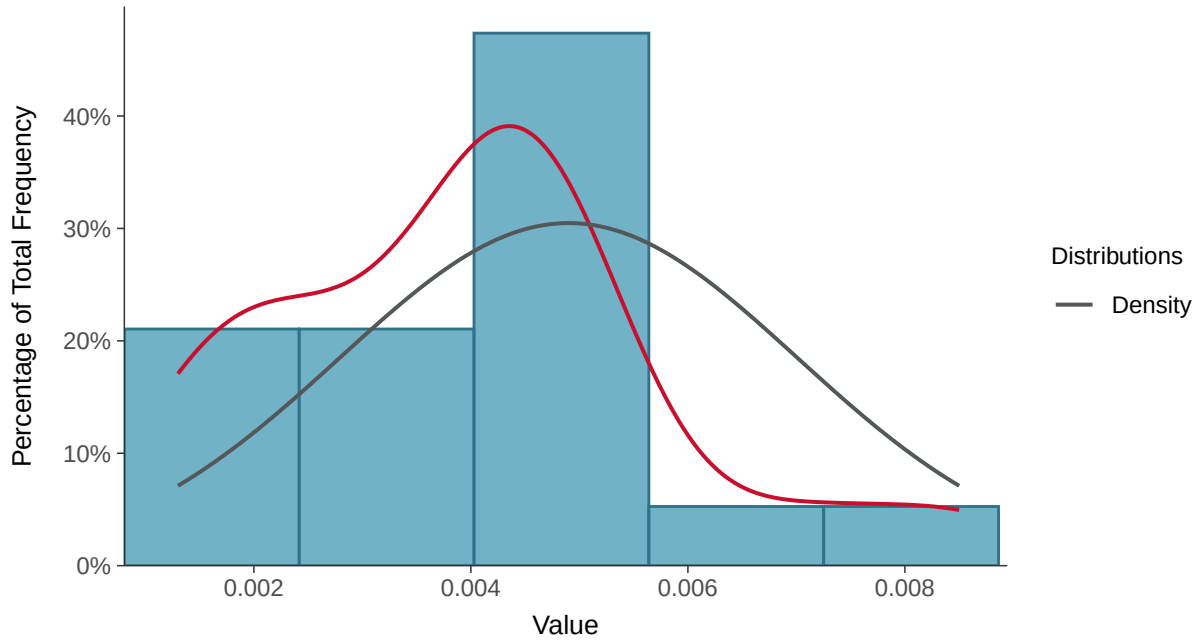
Scatter Plot

Chromium, Total, MW-10 (mg/L)



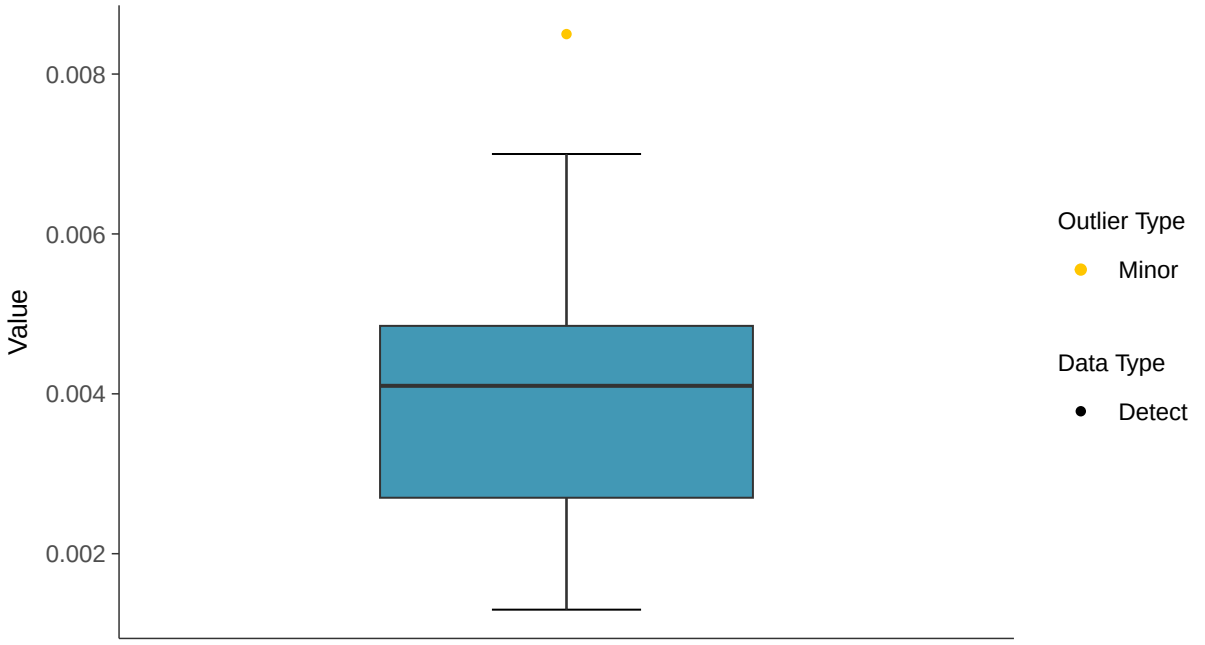
Histogram

Chromium, Total, MW-10 (mg/L)



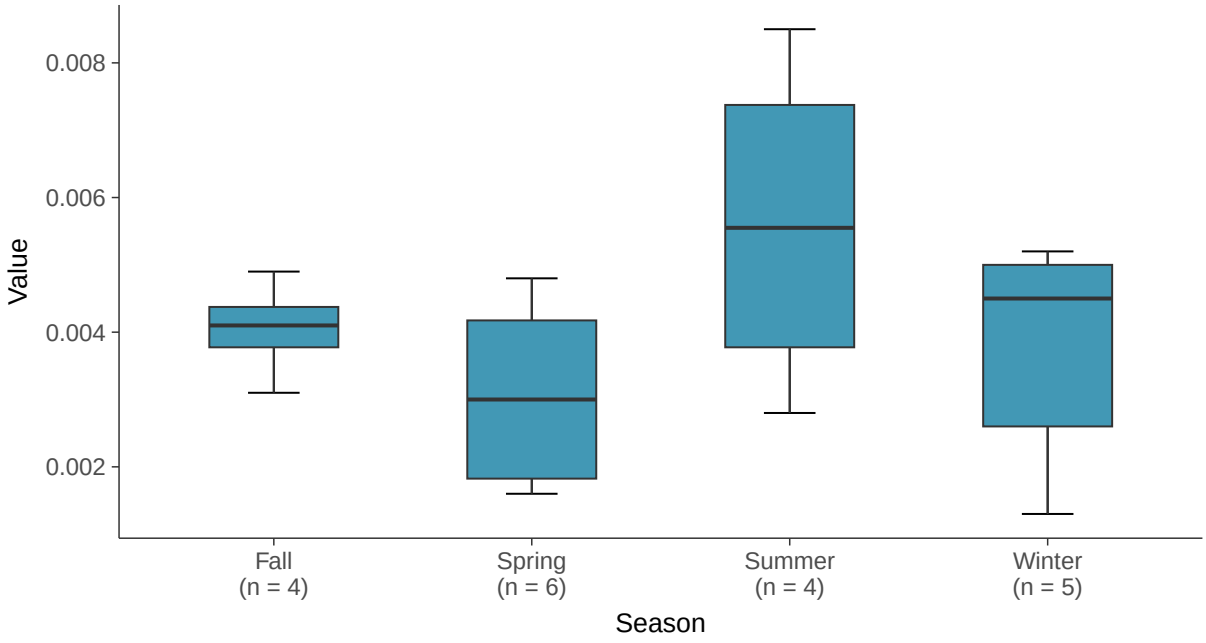
Boxplot

Chromium, Total, MW-10 (mg/L)



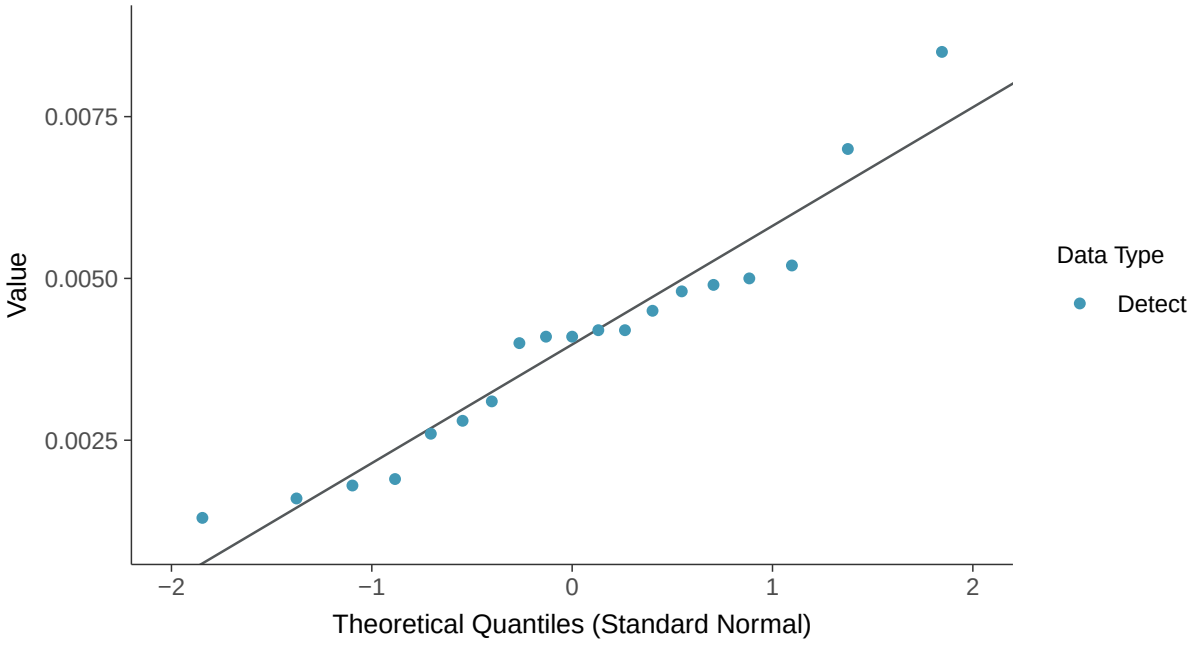
Boxplot by Season

Chromium, Total, MW-10 (mg/L)



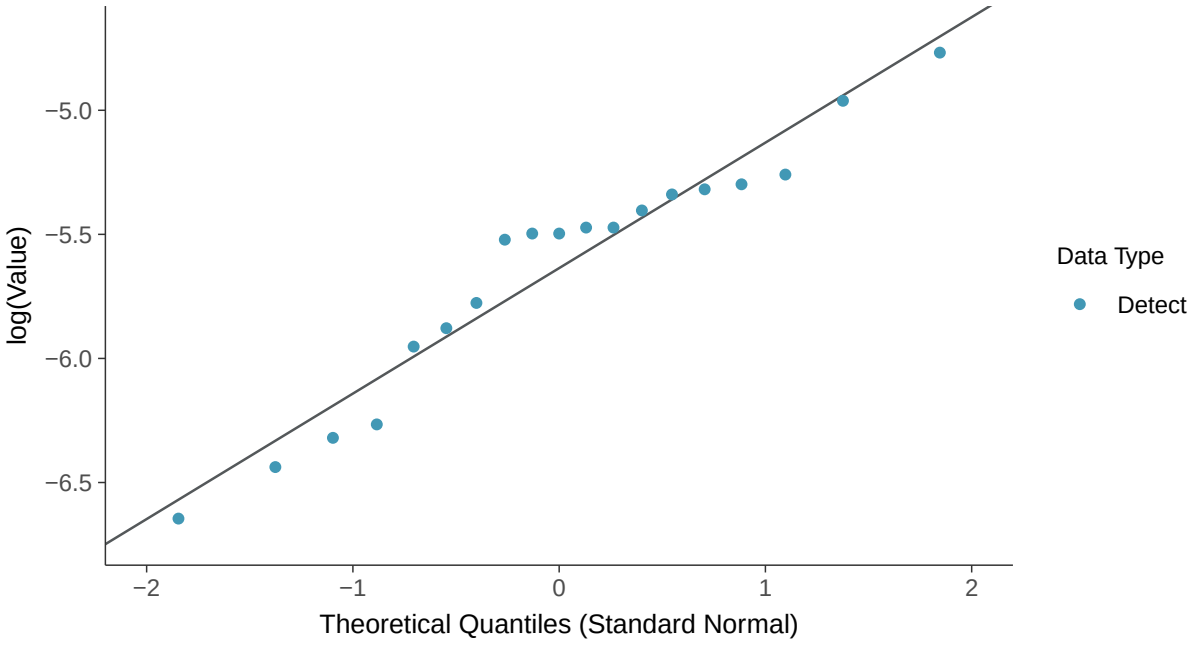
Normal Q-Q plot

Chromium, Total, MW-10 (mg/L)



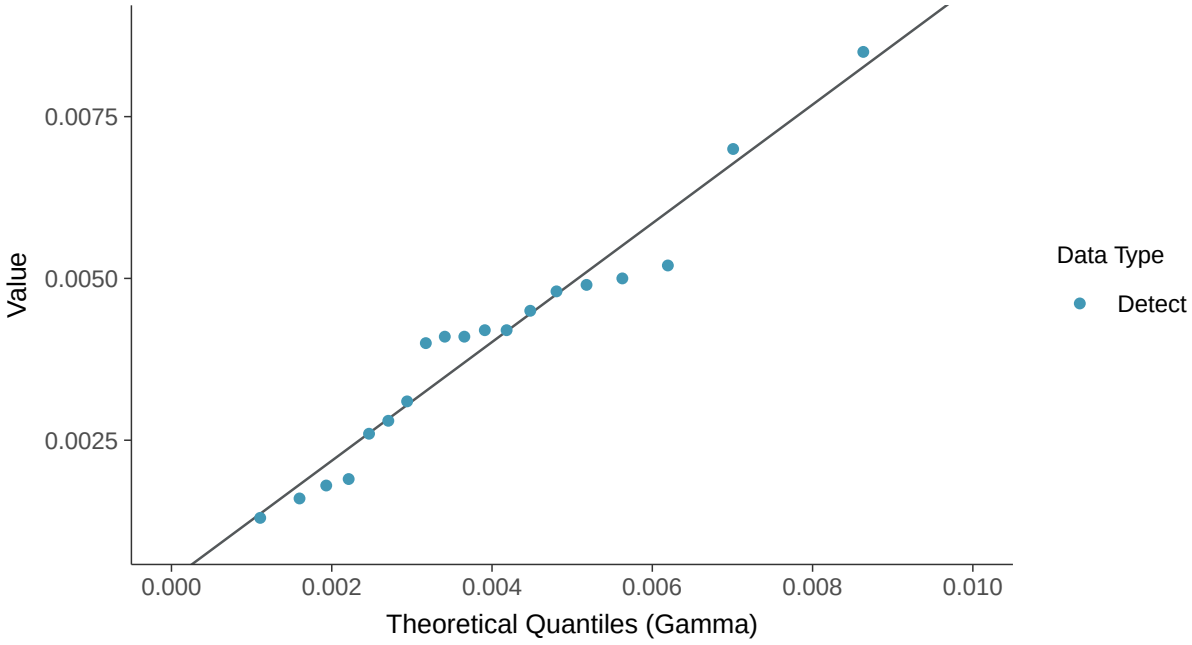
Lognormal Q-Q plot

Chromium, Total, MW-10 (mg/L)



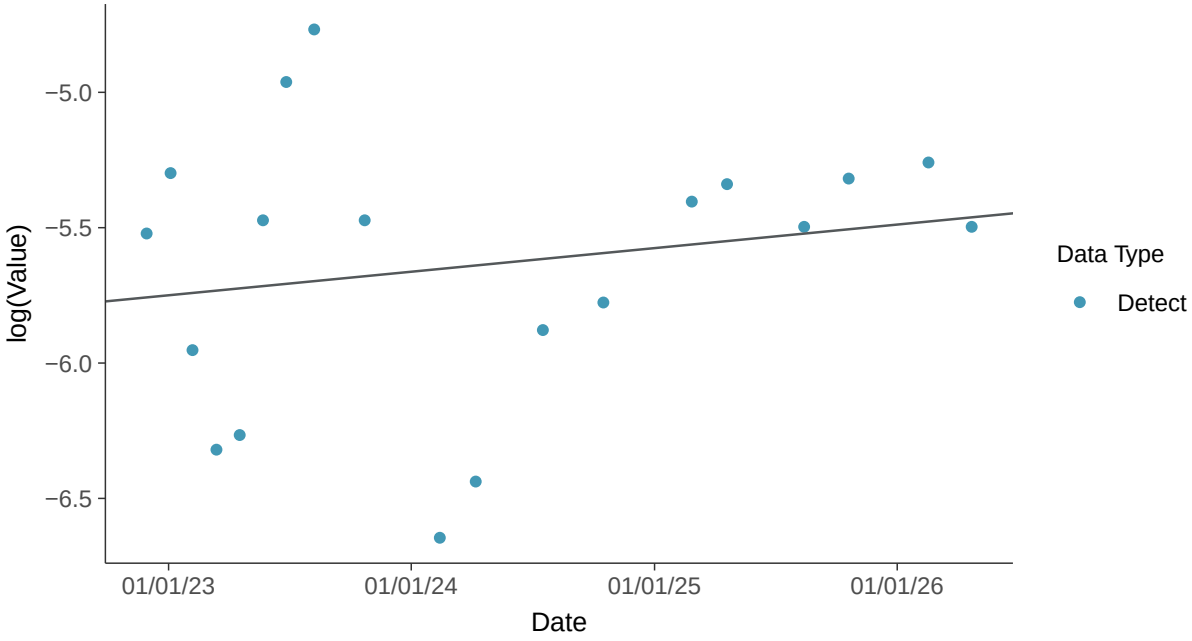
Gamma Q-Q plot

Chromium, Total, MW-10 (mg/L)



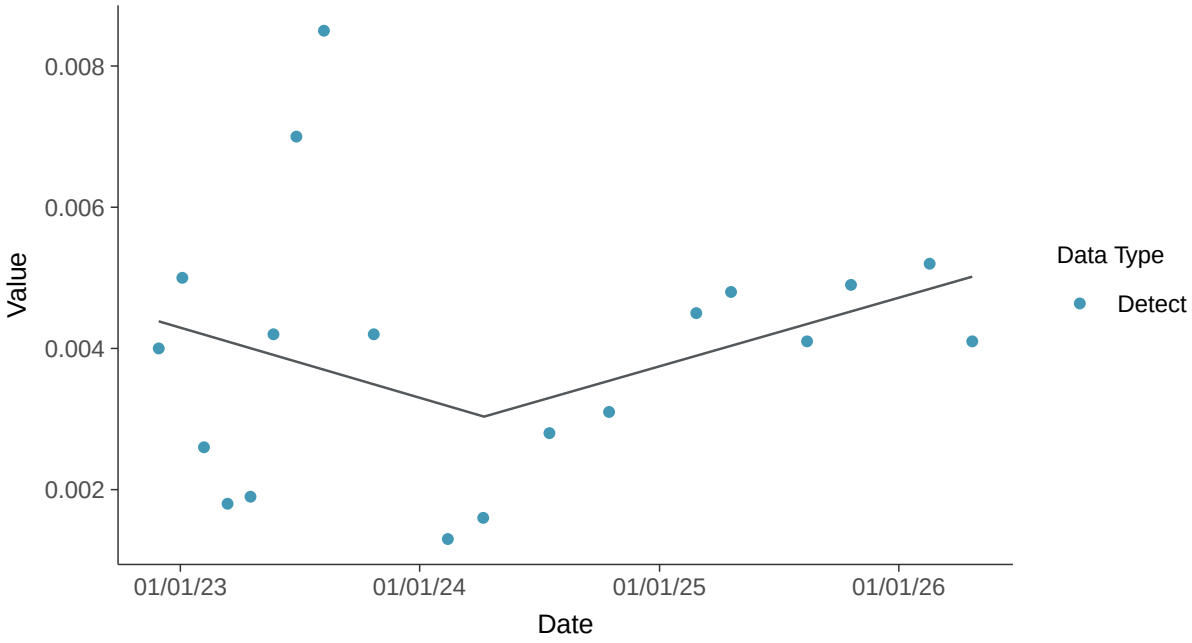
Trend Regression: Lognormal MLE

Chromium, Total, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-10 (mg/L)

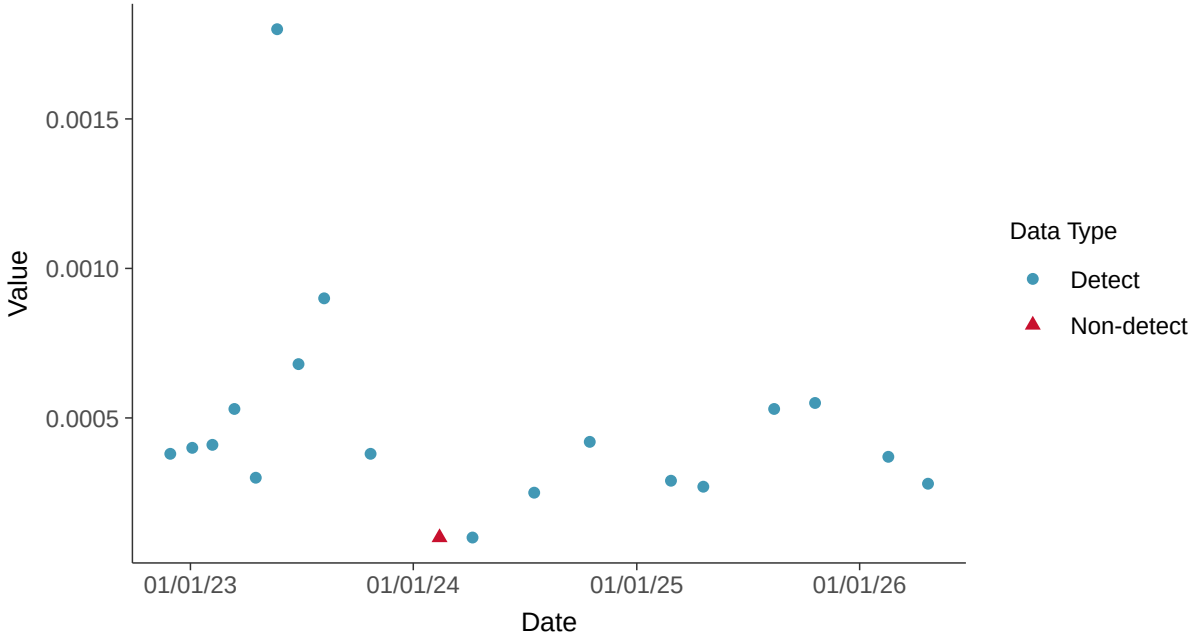


Appendix IV: Cobalt, MW-10

ID: 20_3_4_110

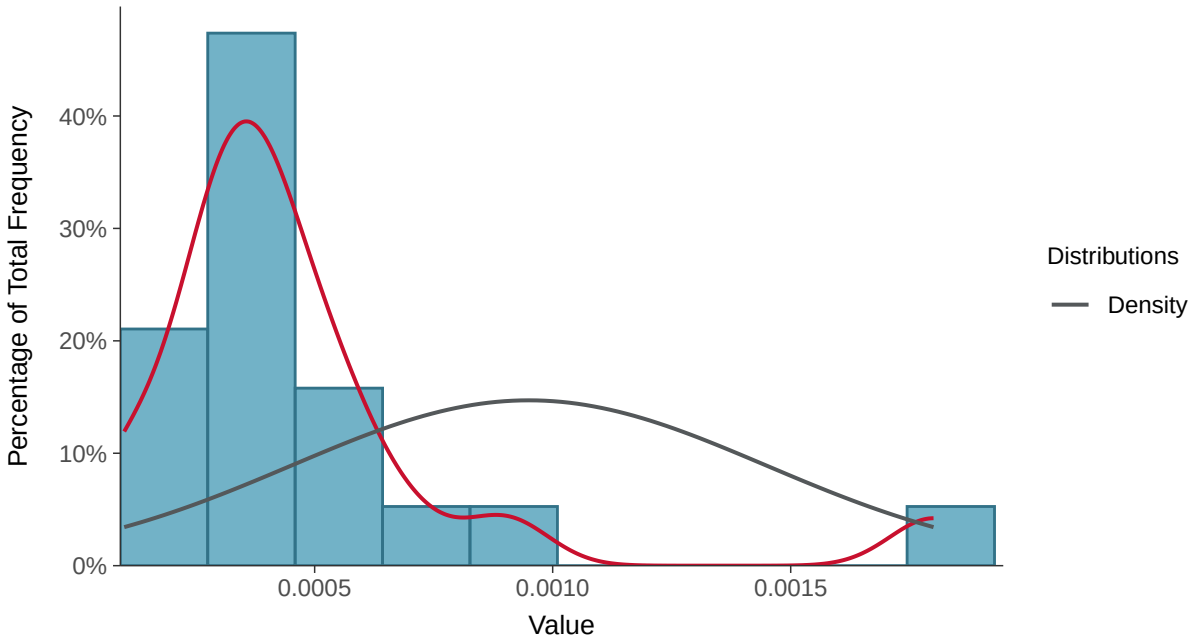
Scatter Plot

Cobalt, MW-10 (mg/L)



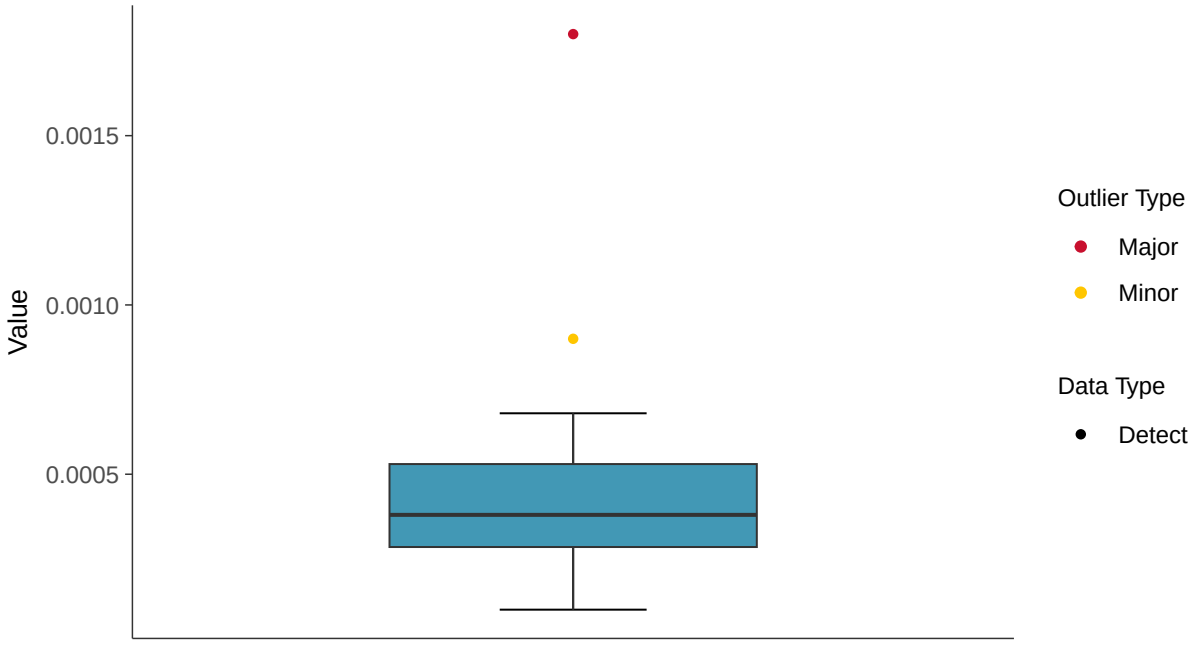
Histogram

Cobalt, MW-10 (mg/L)



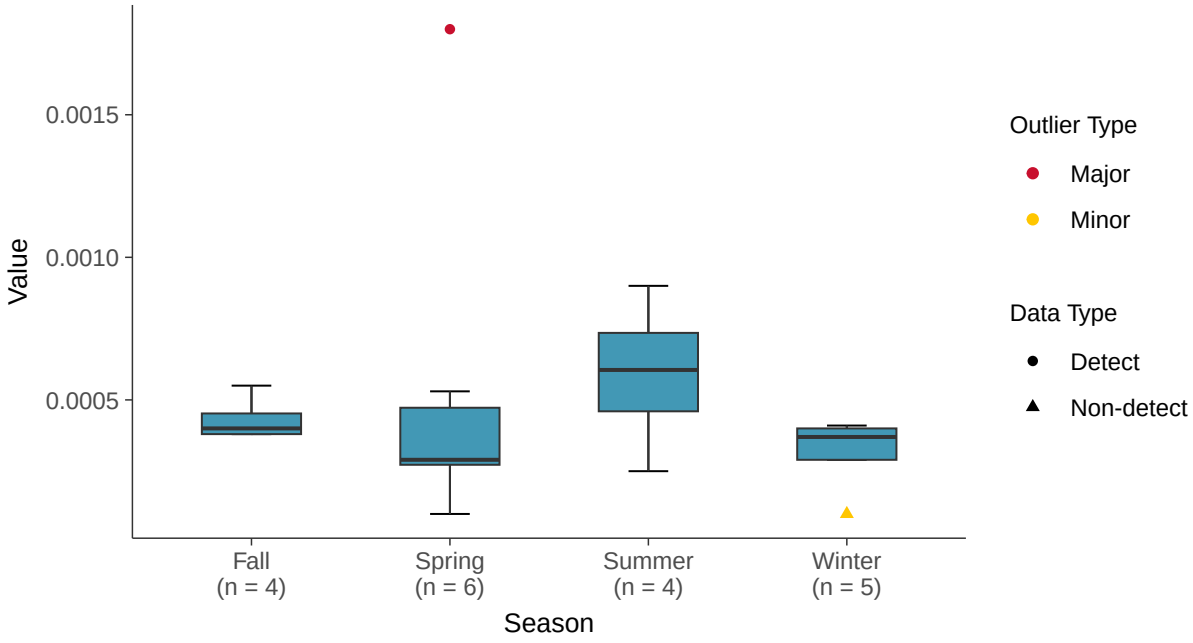
Boxplot

Cobalt, MW-10 (mg/L)



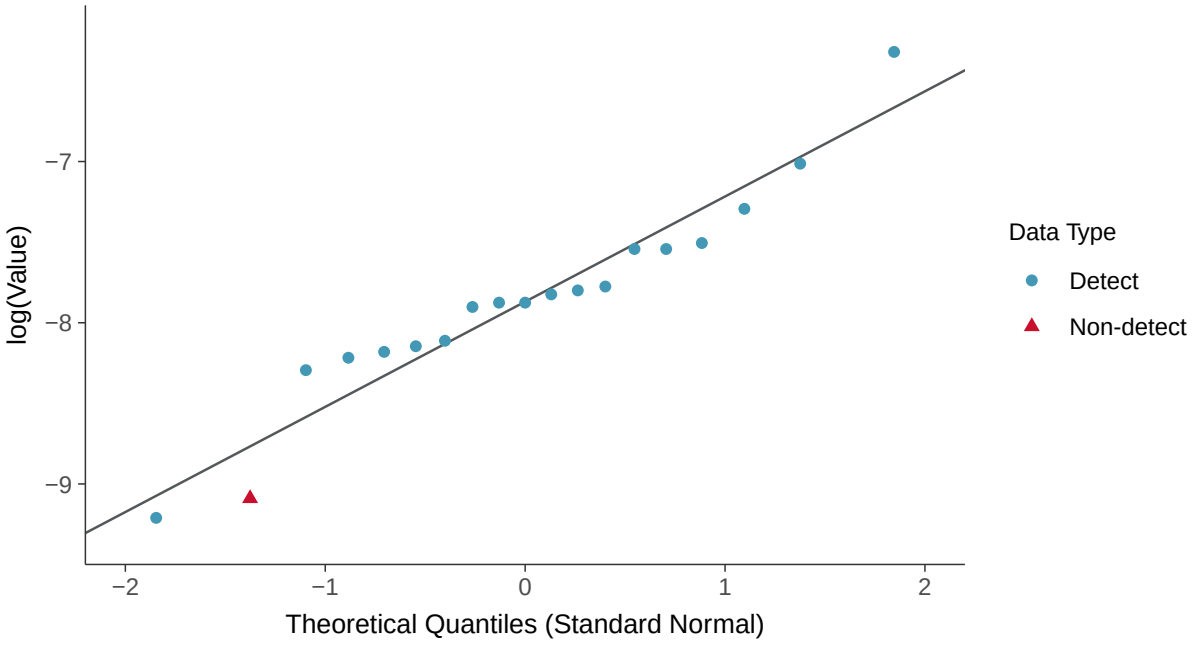
Boxplot by Season

Cobalt, MW-10 (mg/L)



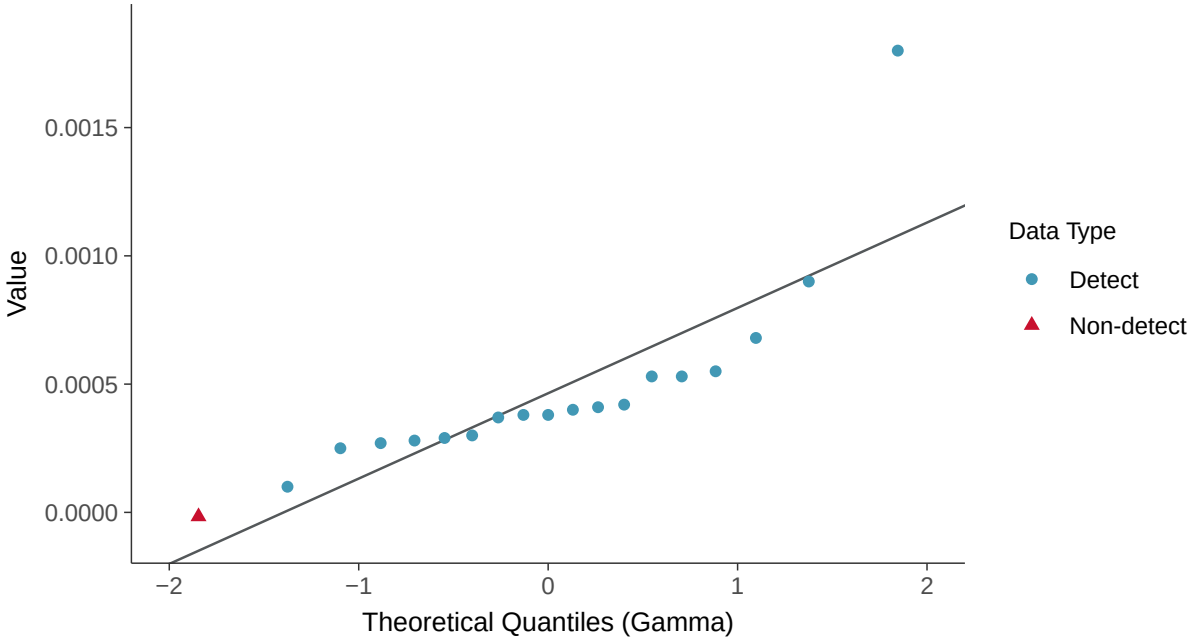
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-10 (mg/L)



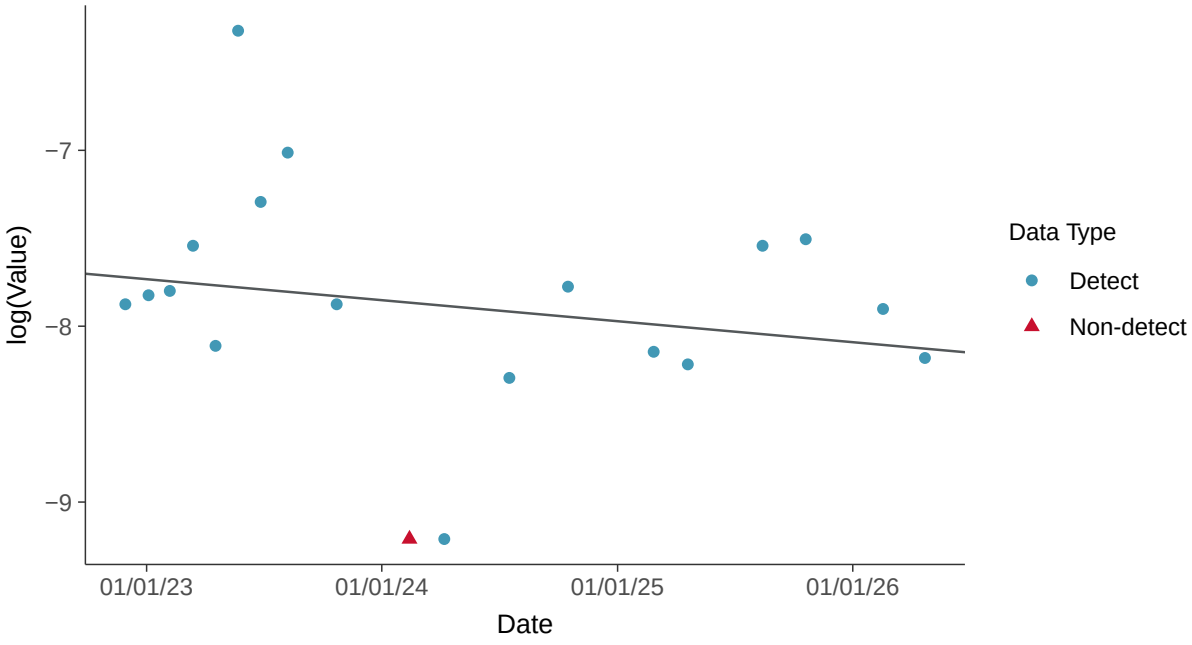
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-10 (mg/L)



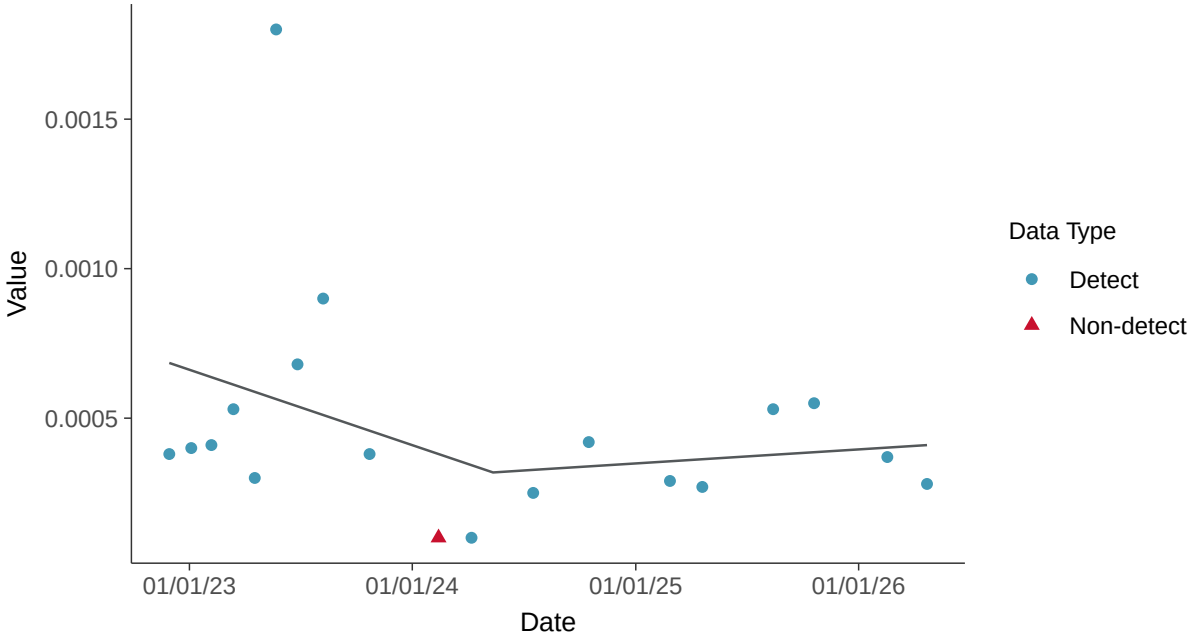
Trend Regression: Lognormal MLE

Cobalt, MW-10 (mg/L)



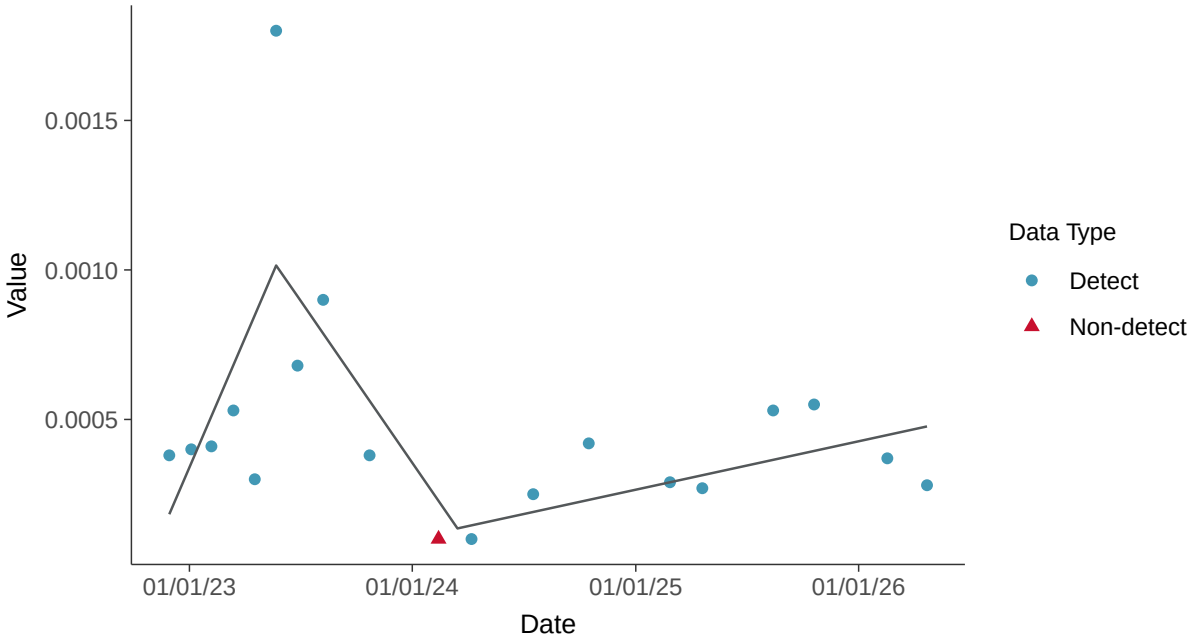
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-10 (mg/L)

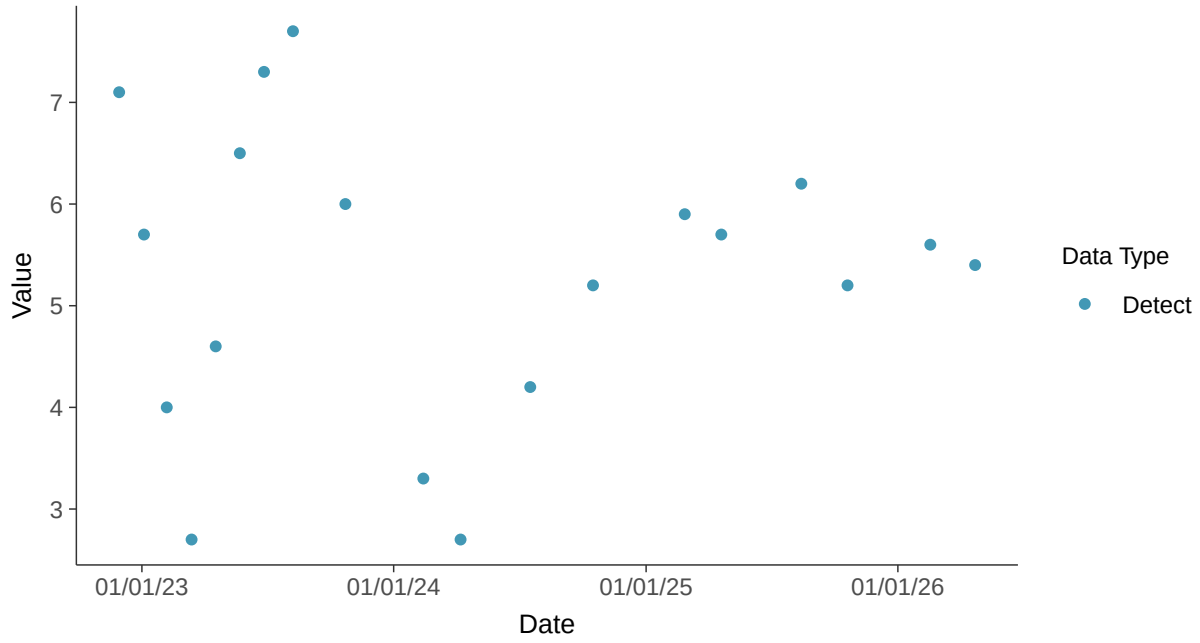


Appendix IV: Fluoride (App IV), MW-10

ID: 20_3_4_113

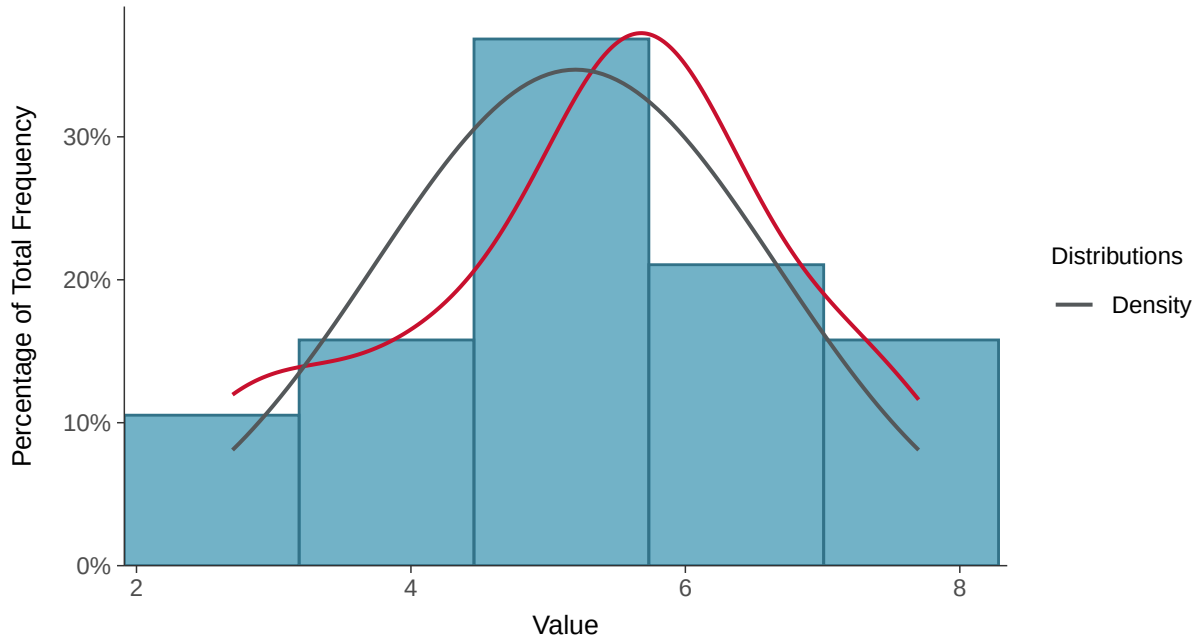
Scatter Plot

Fluoride (App IV), MW-10 (mg/L)



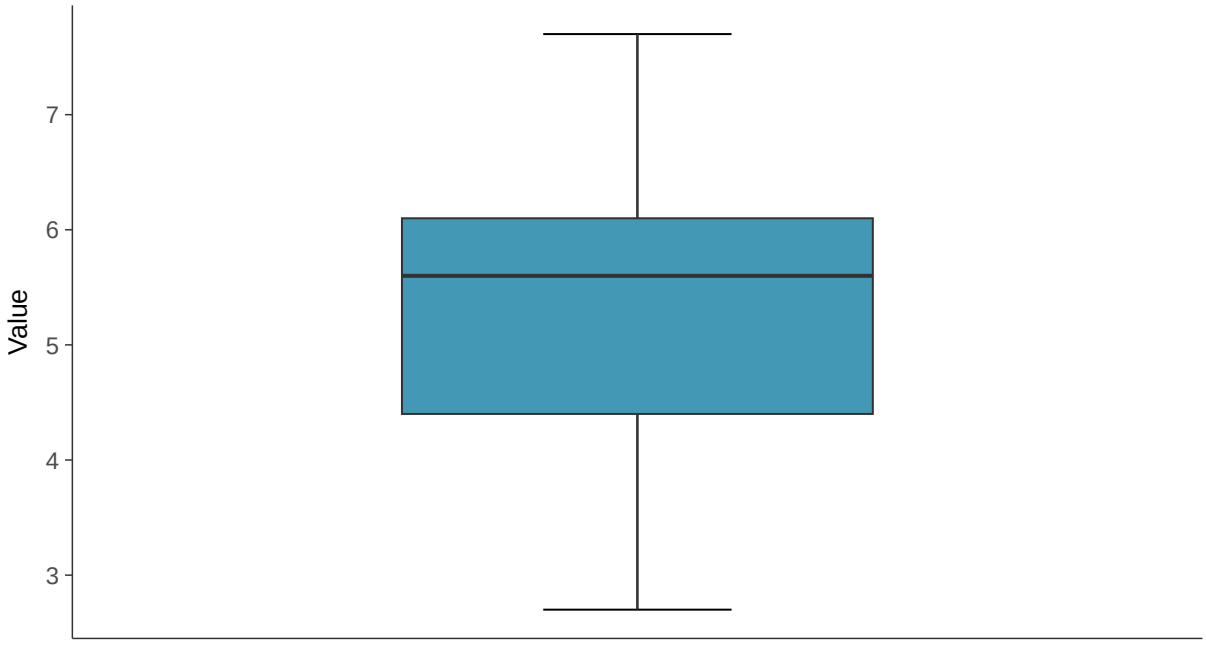
Histogram

Fluoride (App IV), MW-10 (mg/L)



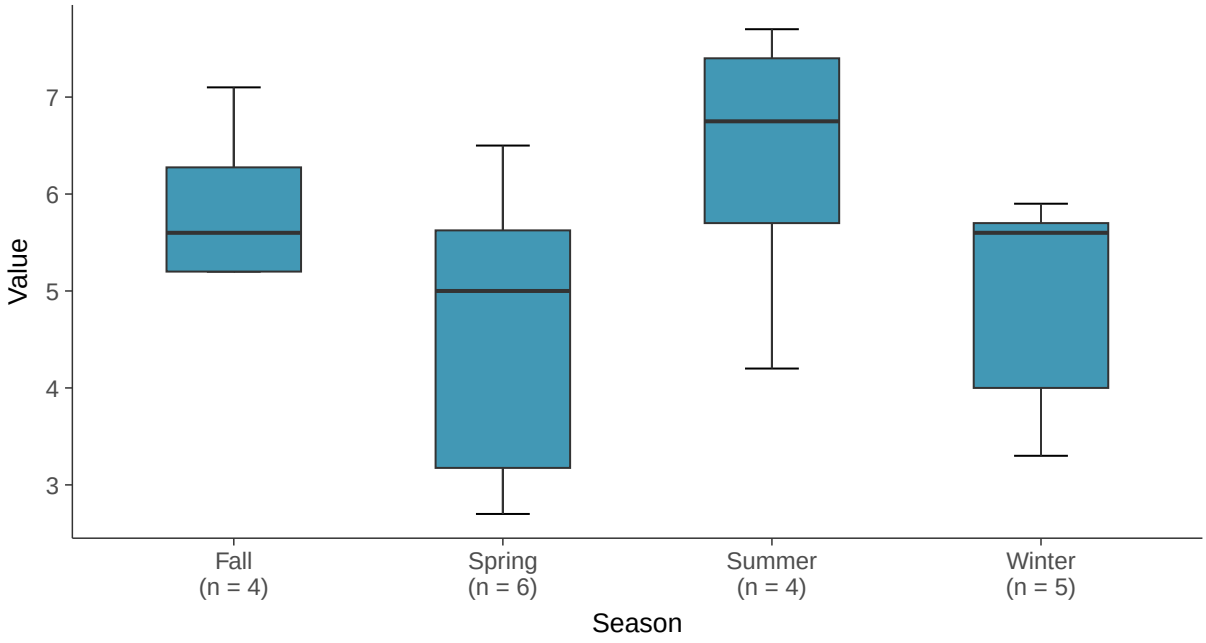
Boxplot

Fluoride (App IV), MW-10 (mg/L)



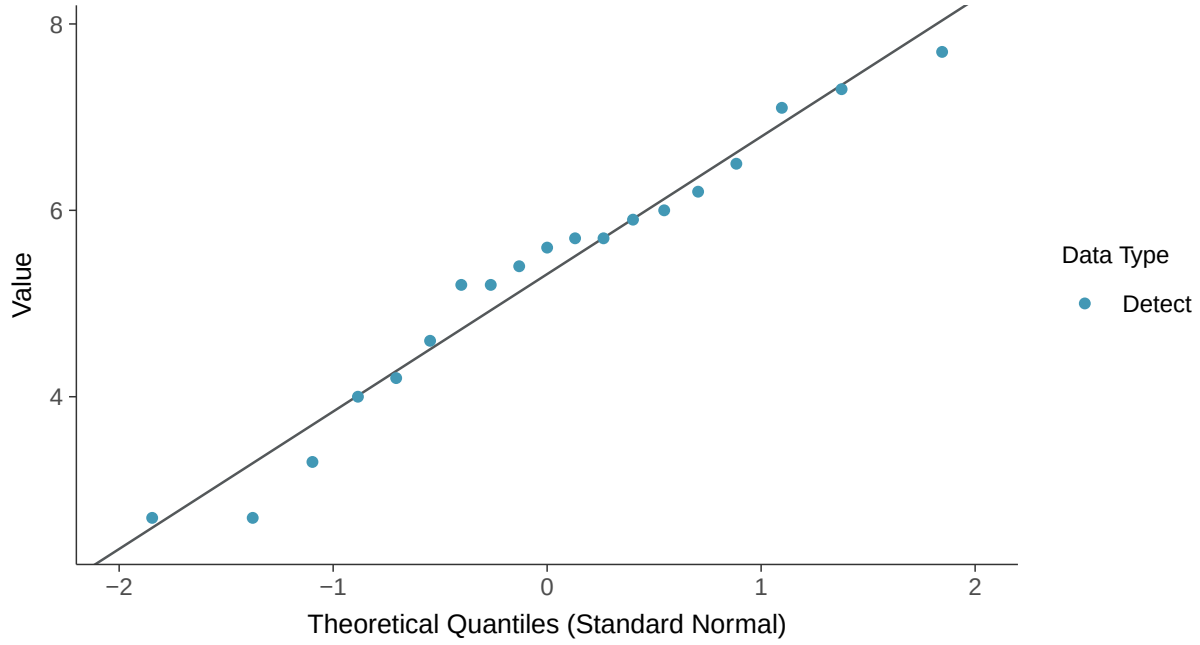
Boxplot by Season

Fluoride (App IV), MW-10 (mg/L)



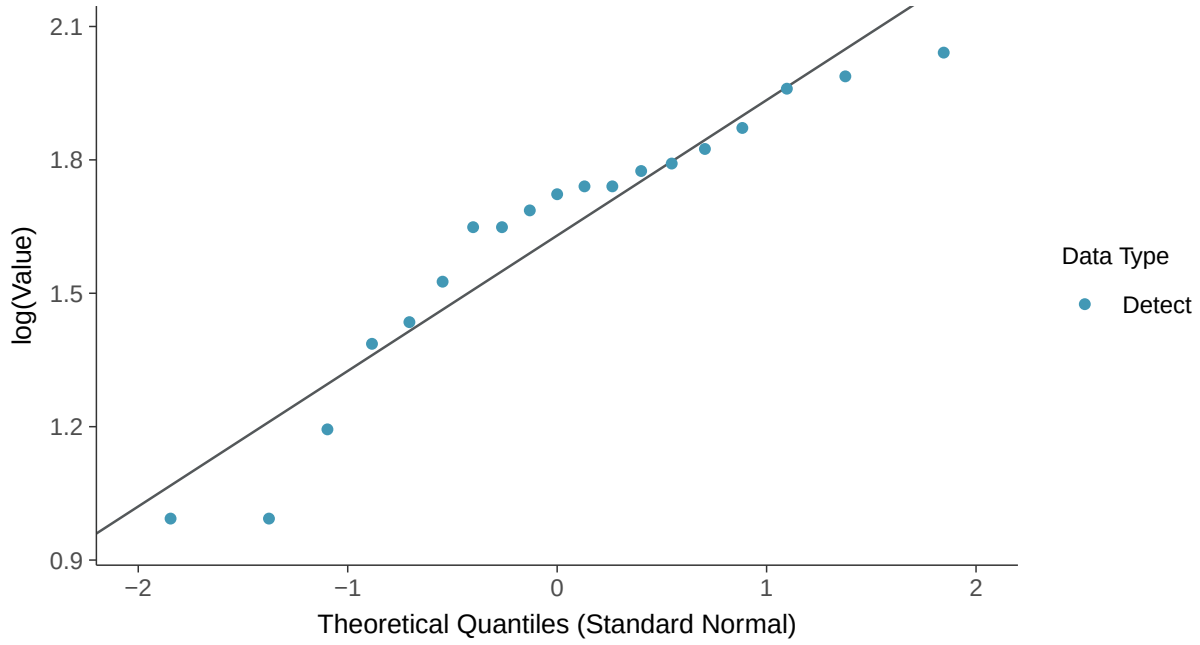
Normal Q-Q plot

Fluoride (App IV), MW-10 (mg/L)



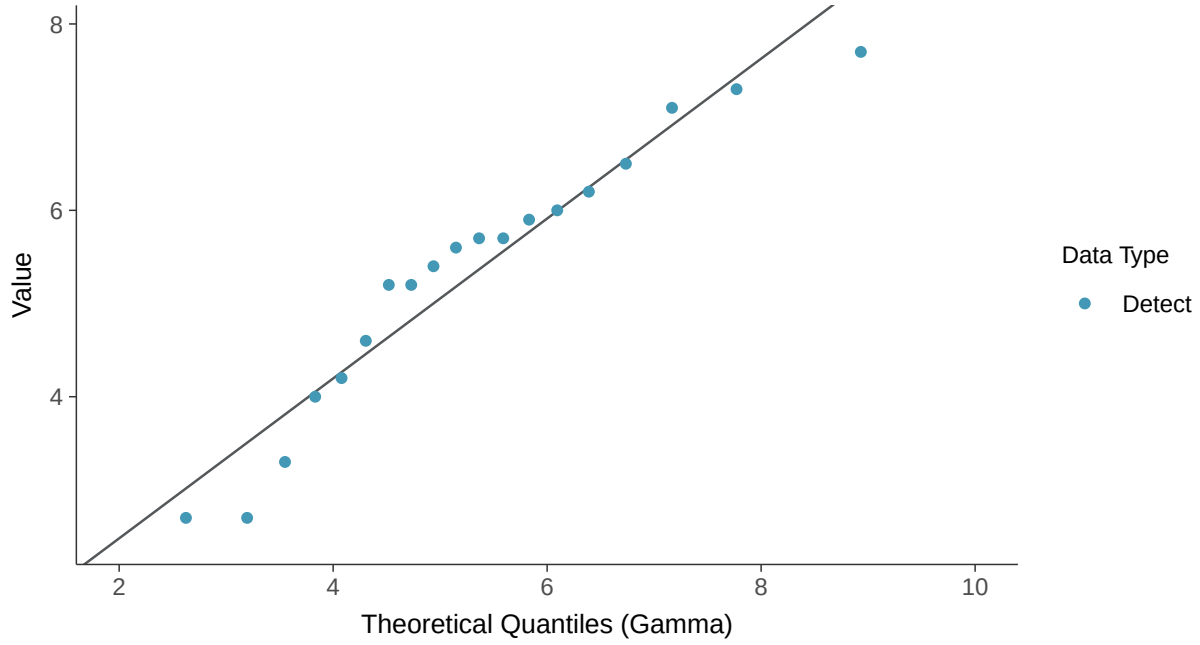
Lognormal Q-Q plot

Fluoride (App IV), MW-10 (mg/L)



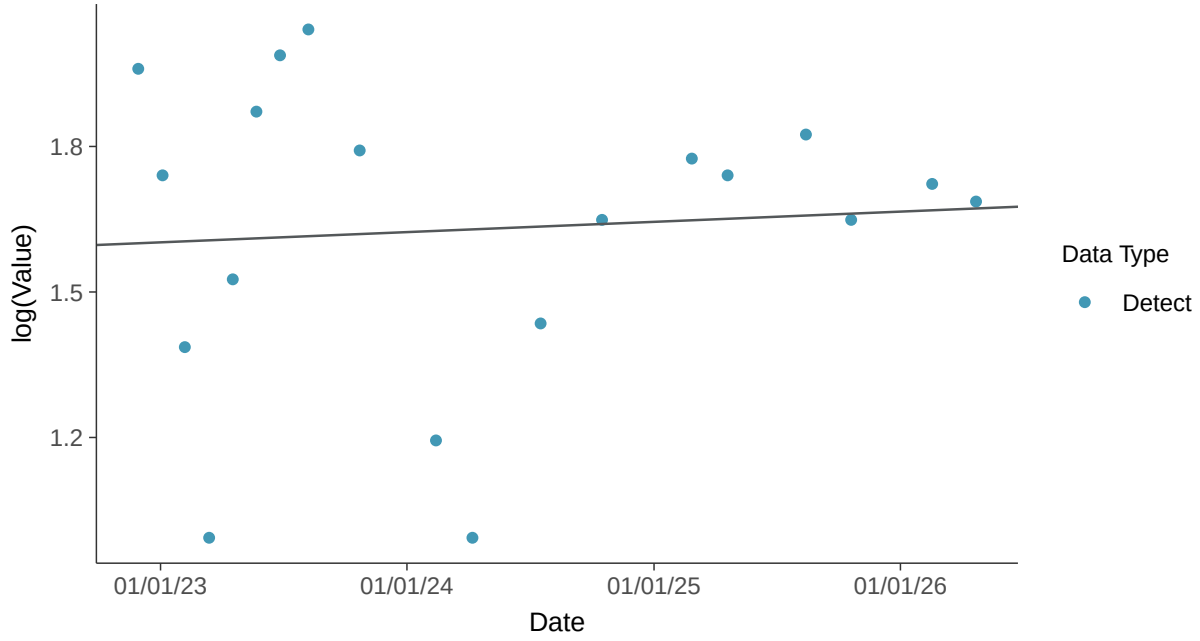
Gamma Q-Q plot

Fluoride (App IV), MW-10 (mg/L)



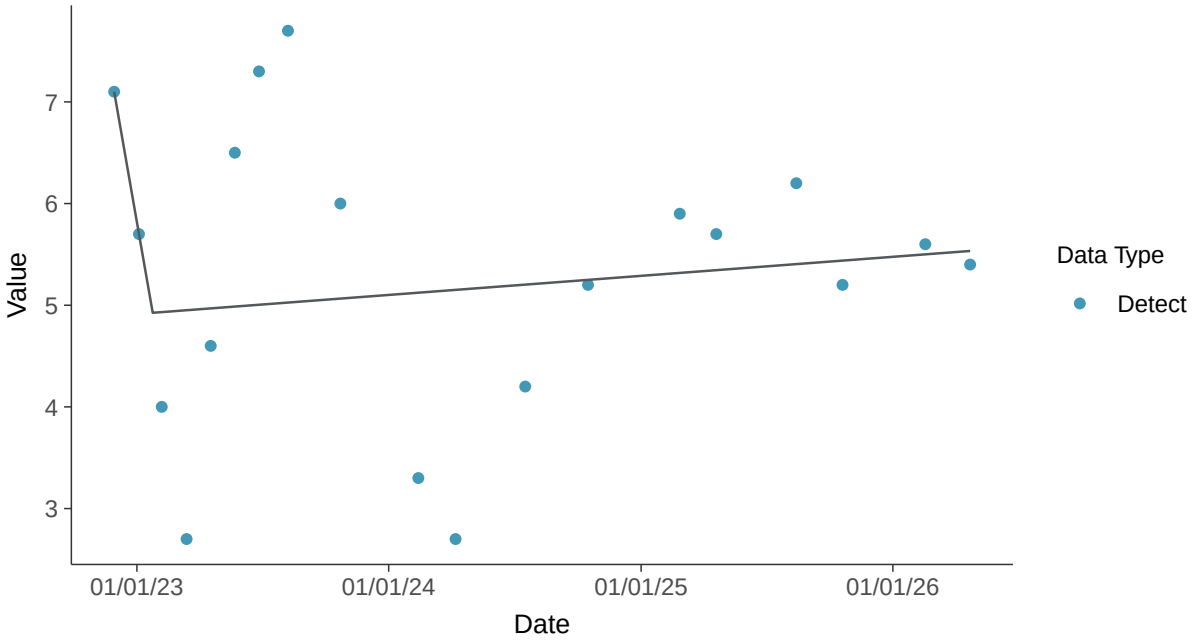
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-10 (mg/L)



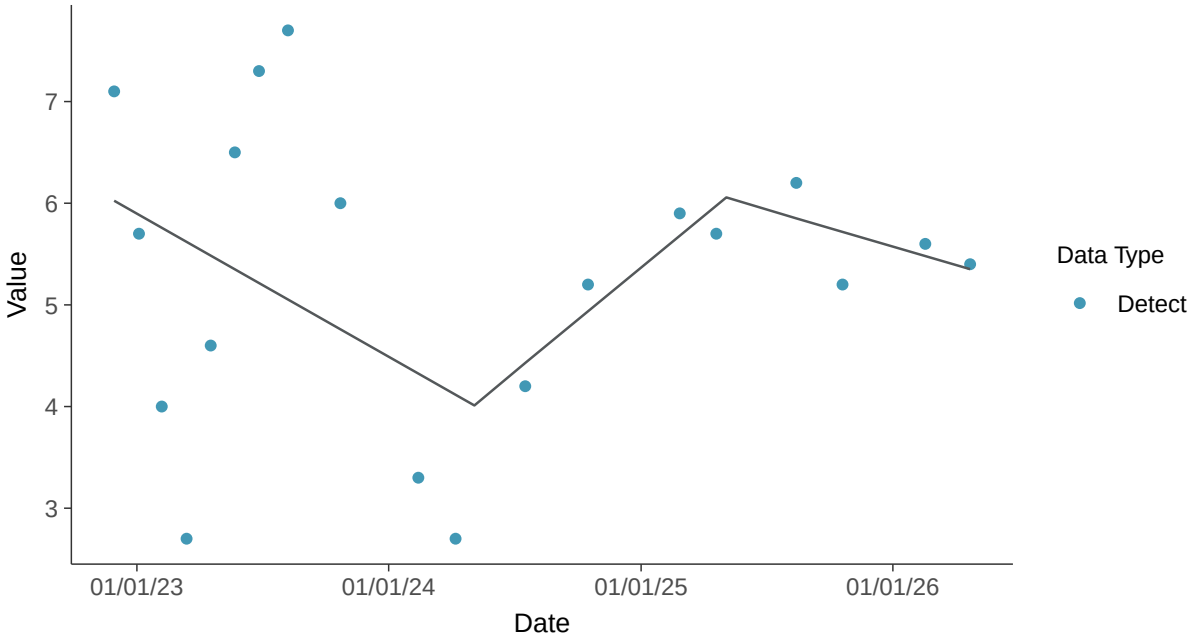
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-10 (mg/L)



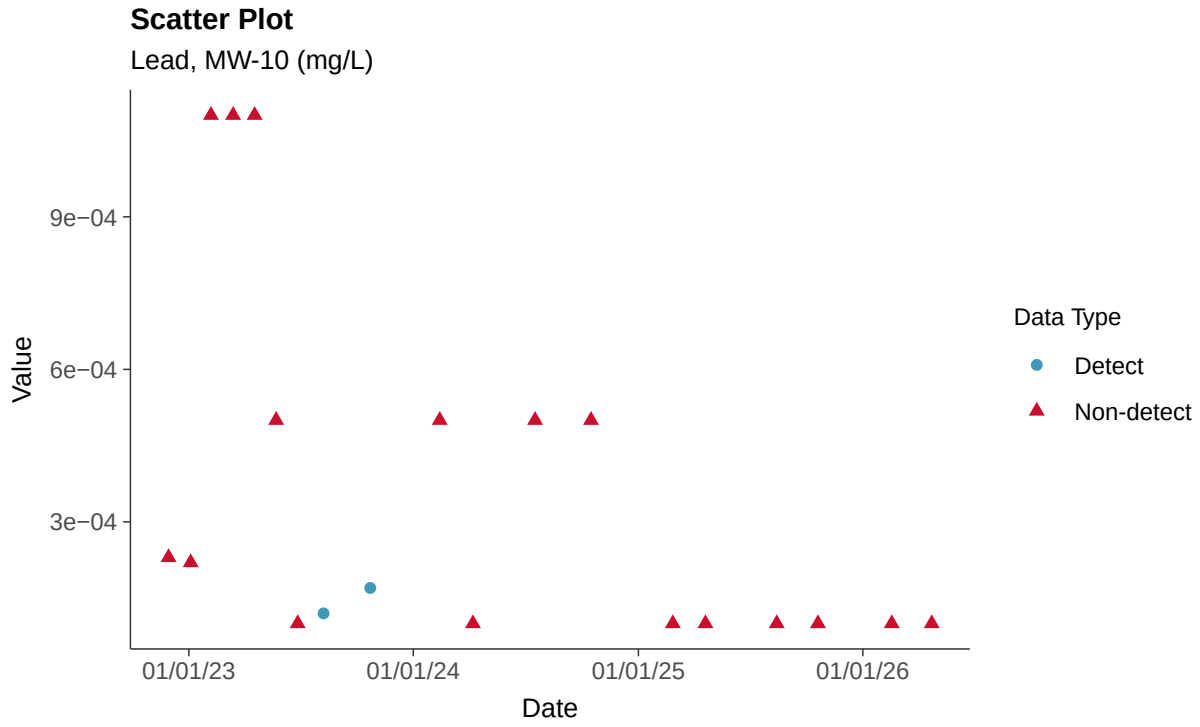
Trend Regression: Piecewise Linear-Linear-Linear

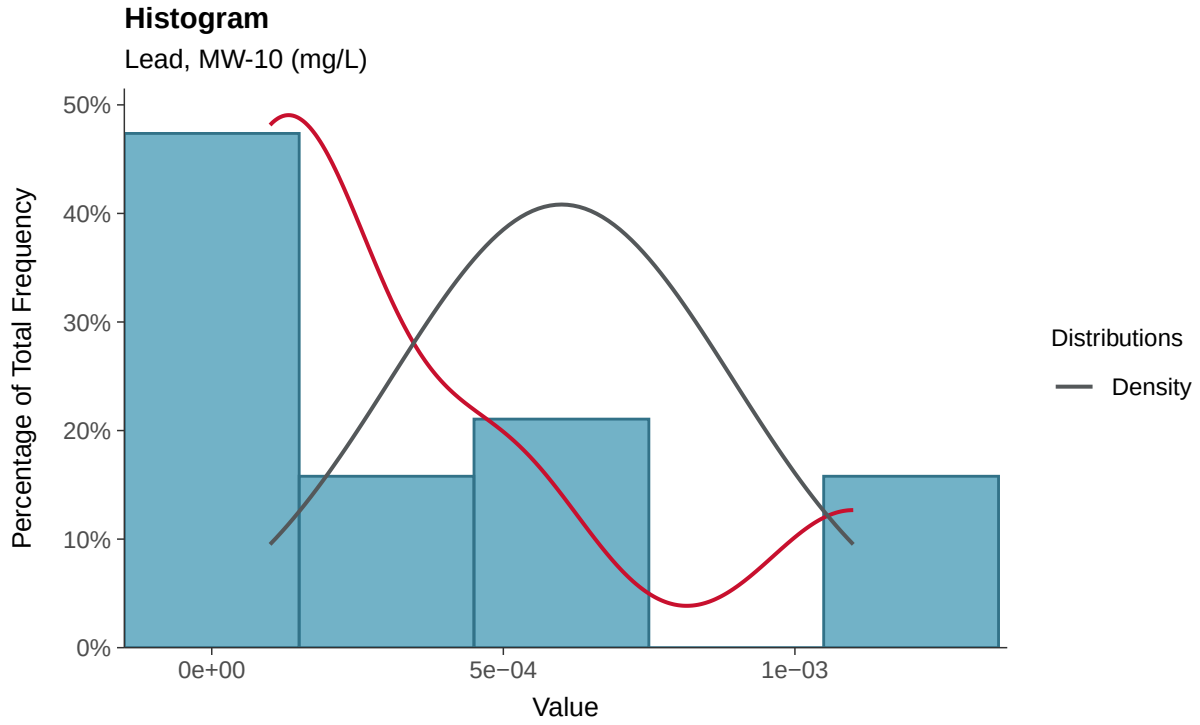
Fluoride (App IV), MW-10 (mg/L)



Appendix IV: Lead, MW-10

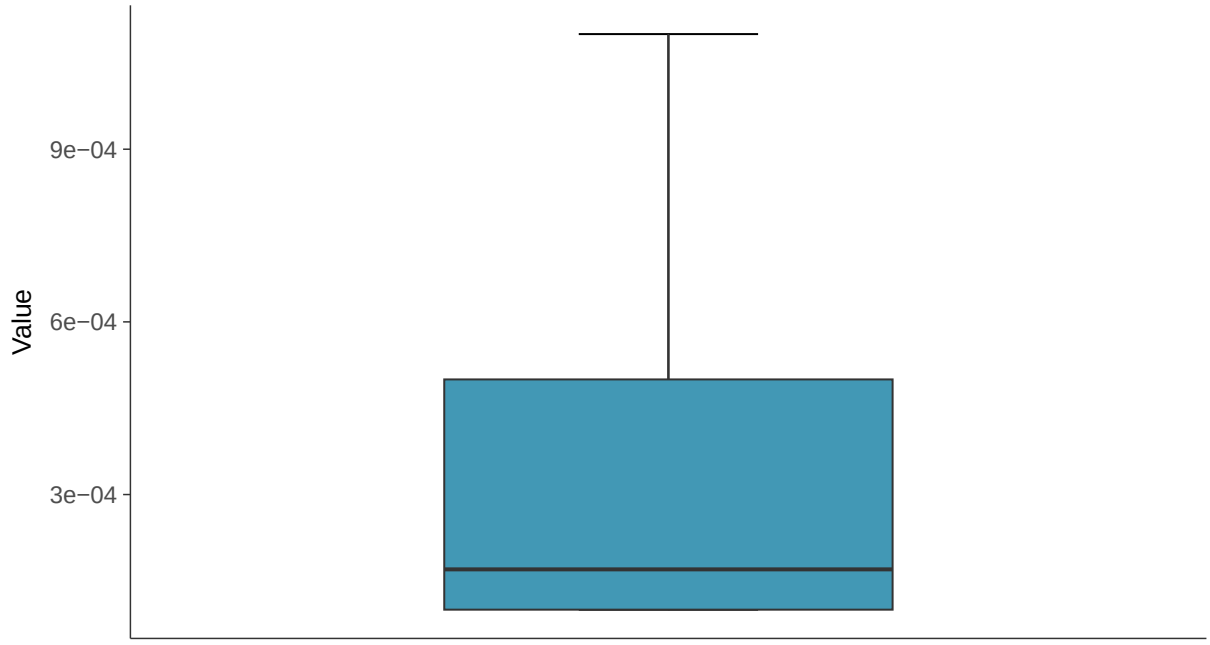
ID: 20_3_4_115





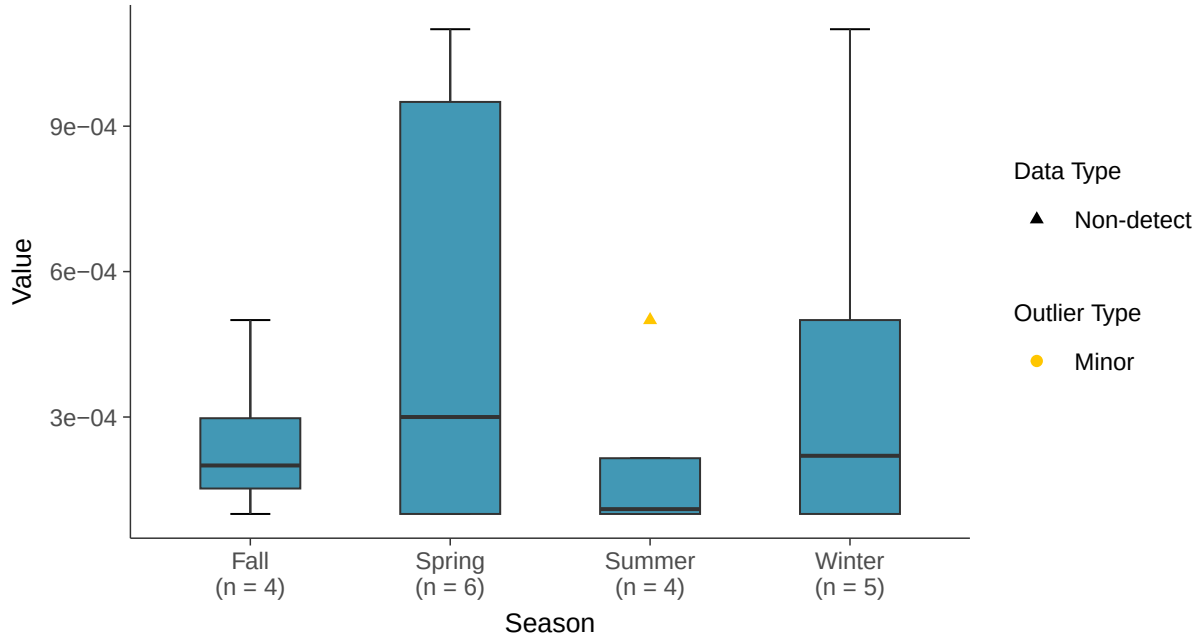
Boxplot

Lead, MW-10 (mg/L)



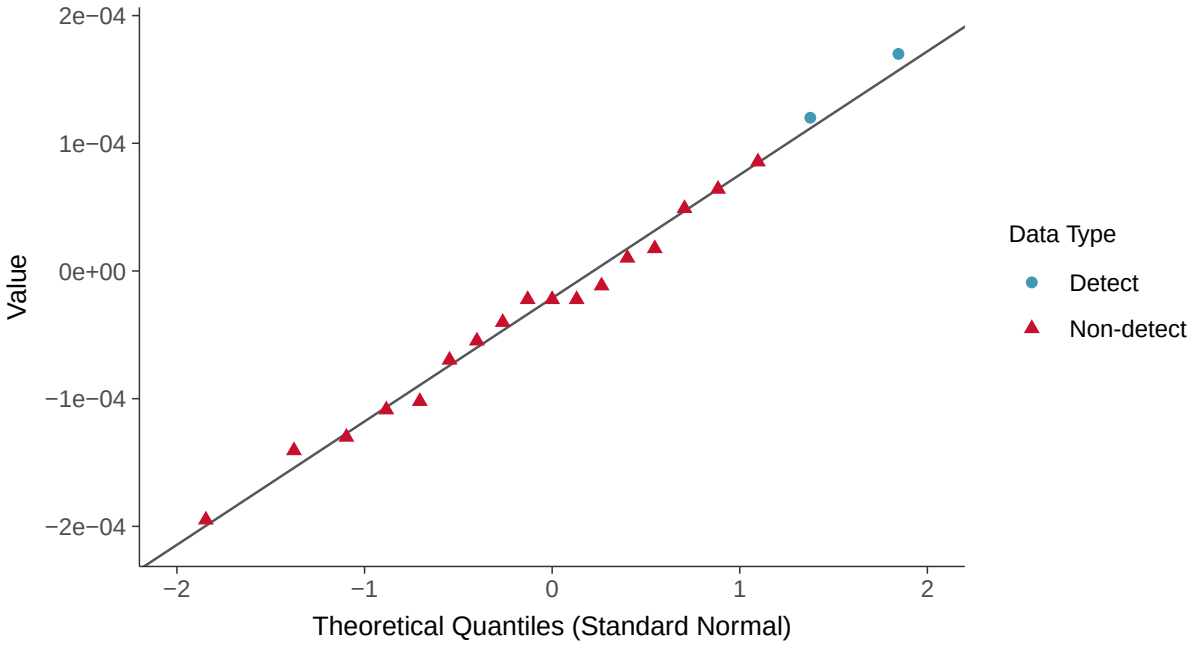
Boxplot by Season

Lead, MW-10 (mg/L)



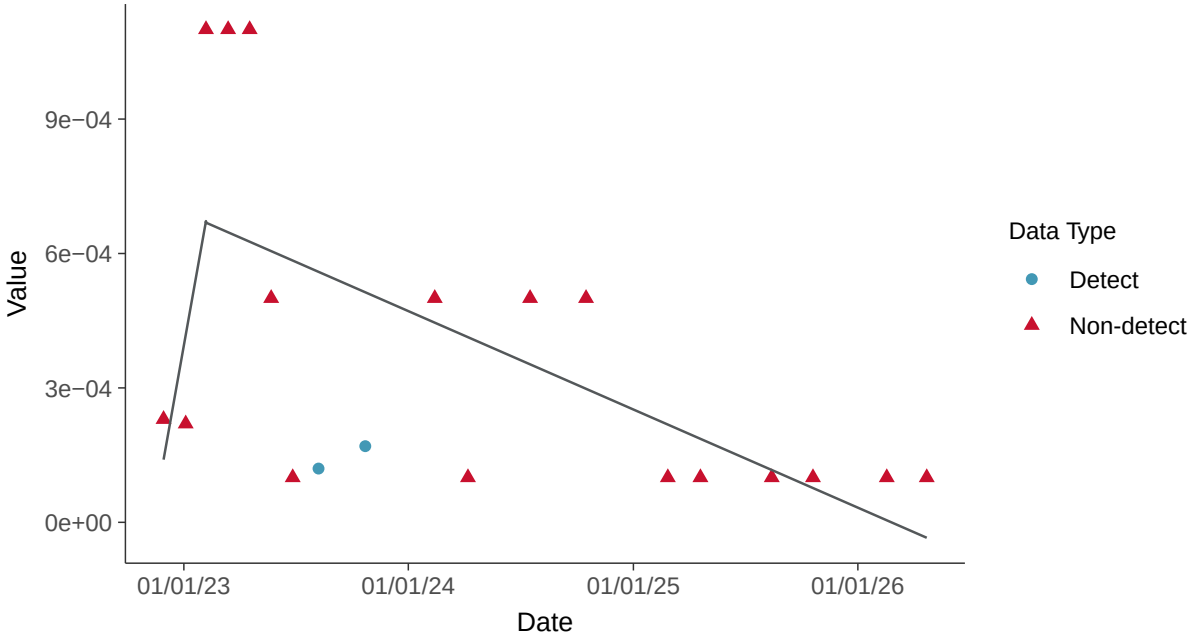
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-10 (mg/L)



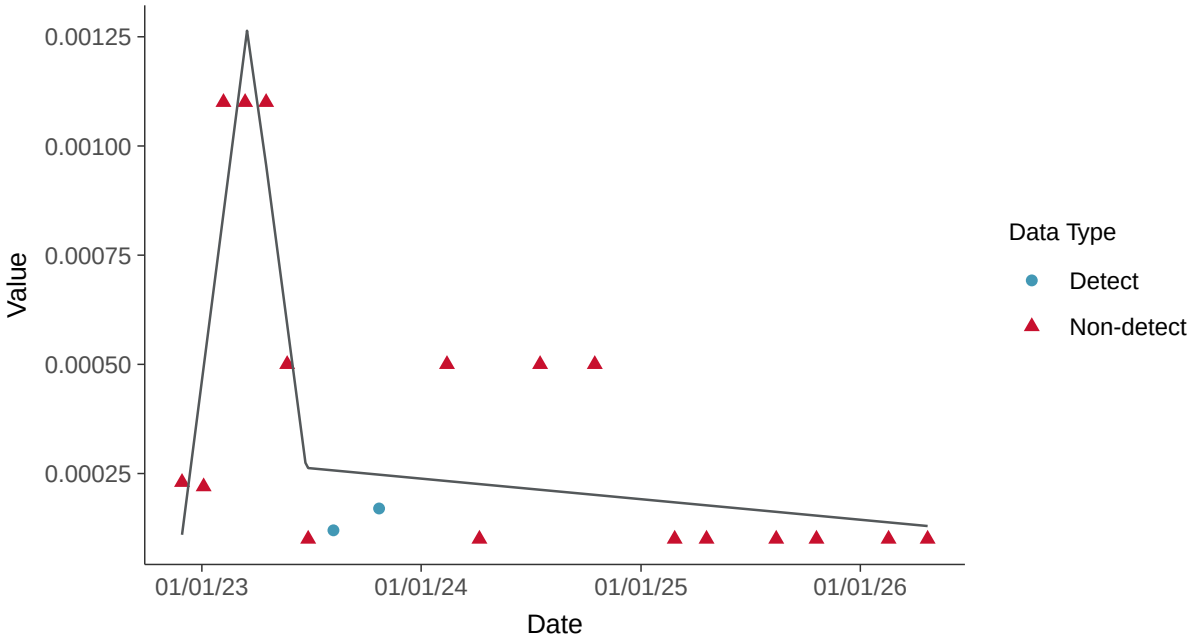
Trend Regression: Piecewise Linear-Linear

Lead, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-10 (mg/L)

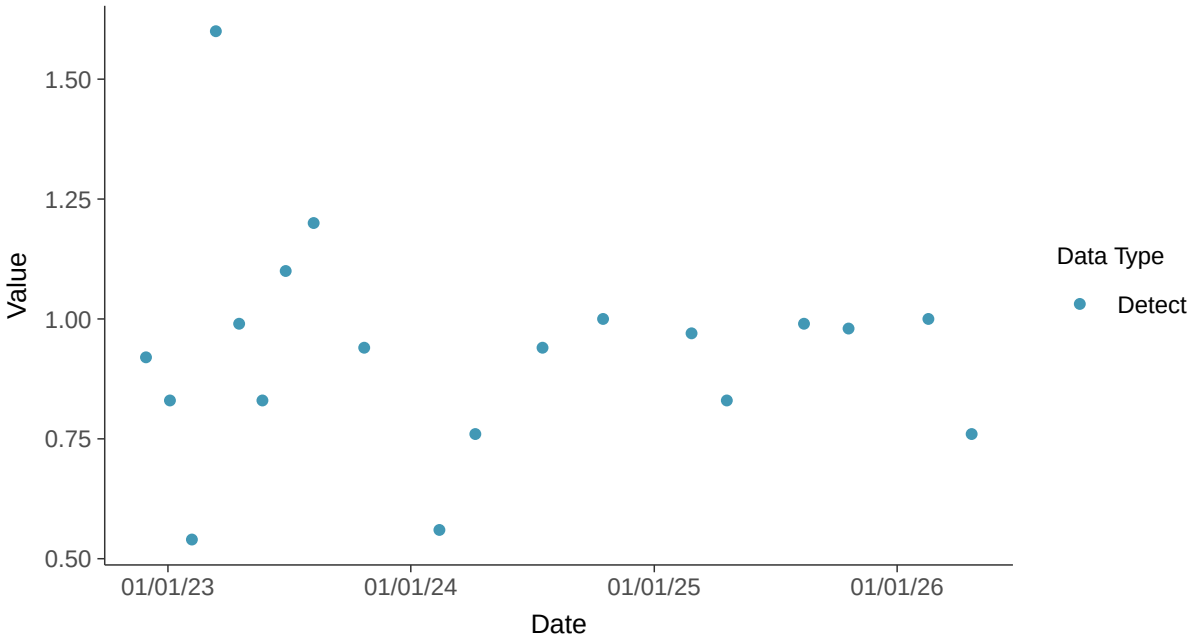


Appendix IV: Lithium, MW-10

ID: 20_3_4_116

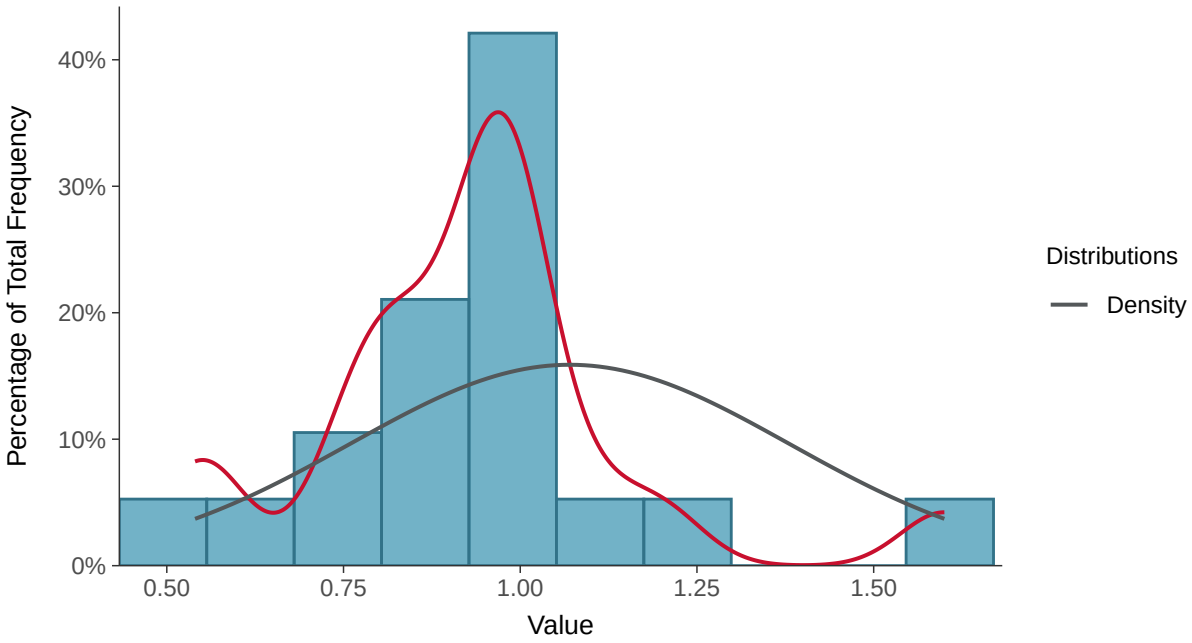
Scatter Plot

Lithium, MW-10 (mg/L)



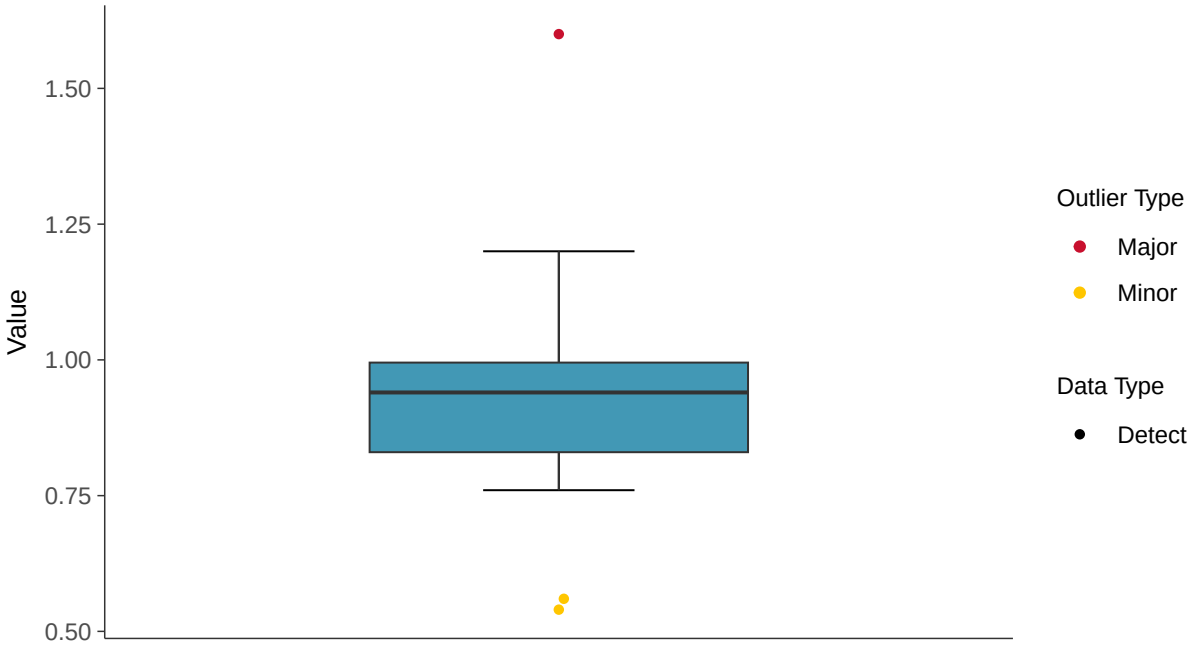
Histogram

Lithium, MW-10 (mg/L)



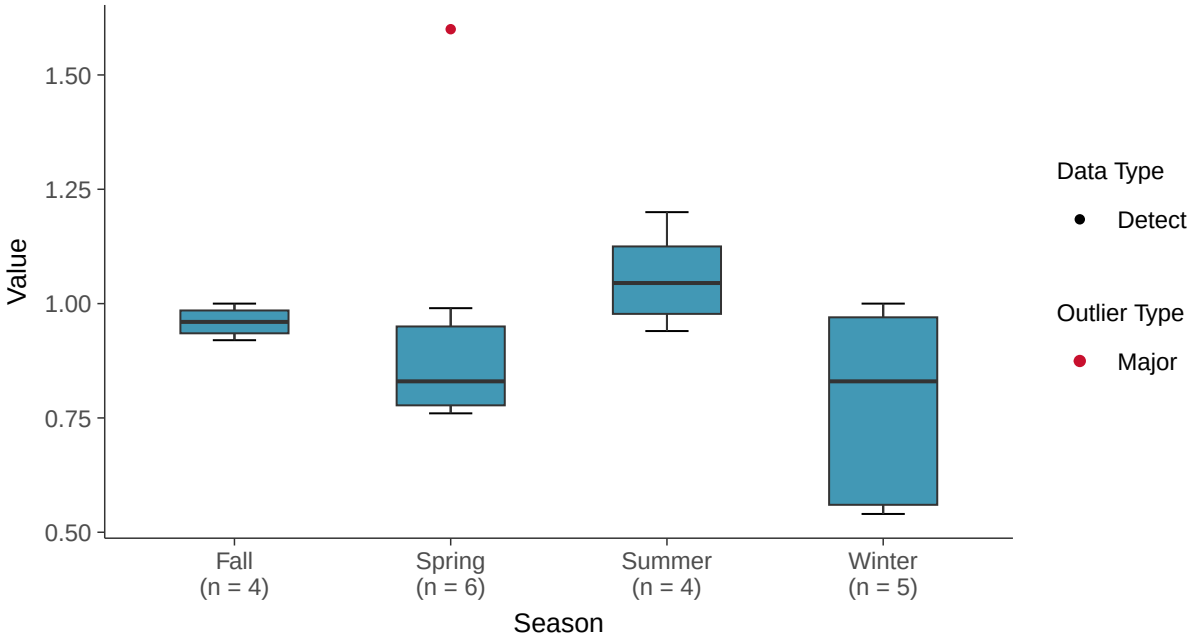
Boxplot

Lithium, MW-10 (mg/L)



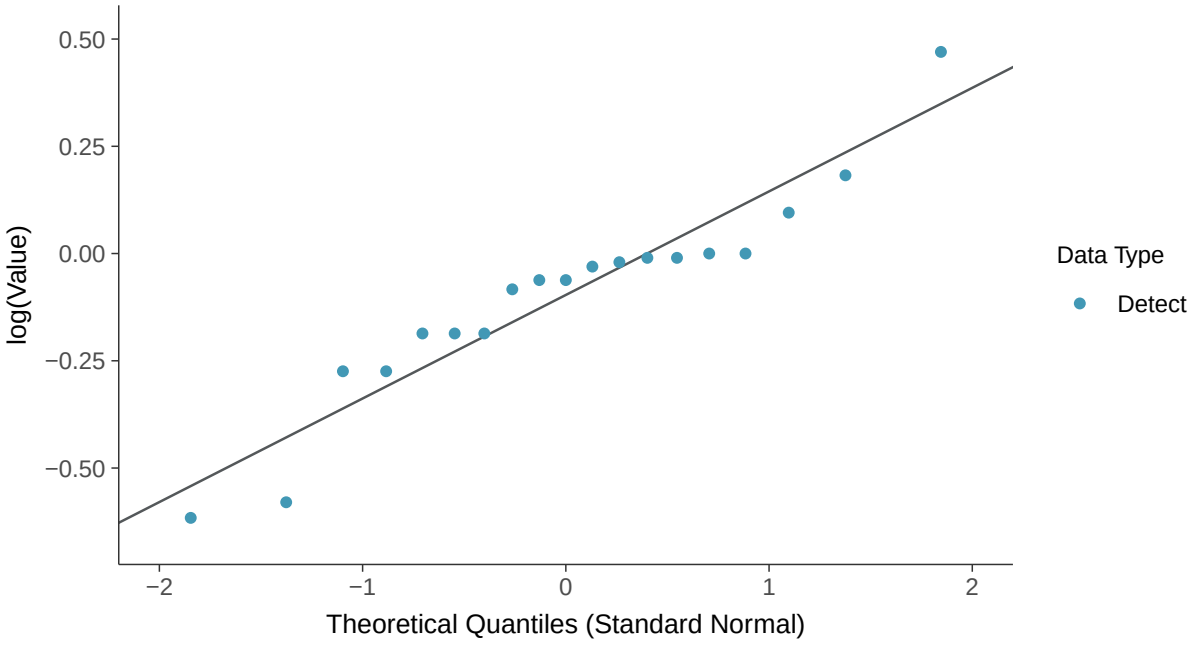
Boxplot by Season

Lithium, MW-10 (mg/L)



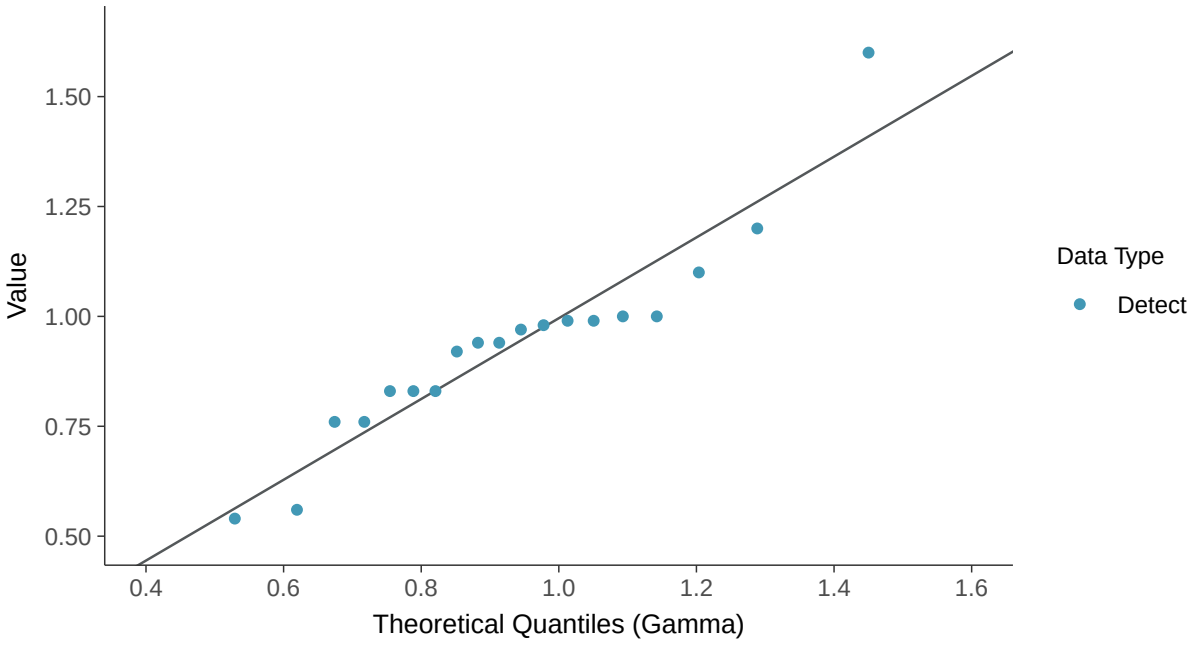
Lognormal Q-Q plot

Lithium, MW-10 (mg/L)



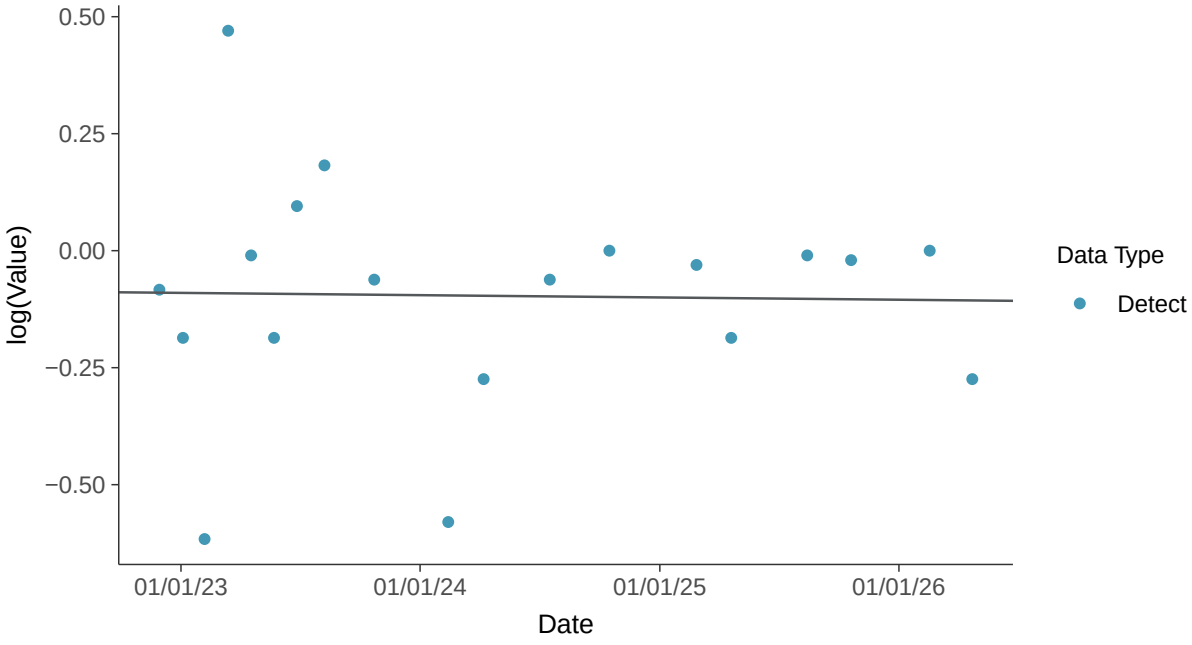
Gamma Q-Q plot

Lithium, MW-10 (mg/L)



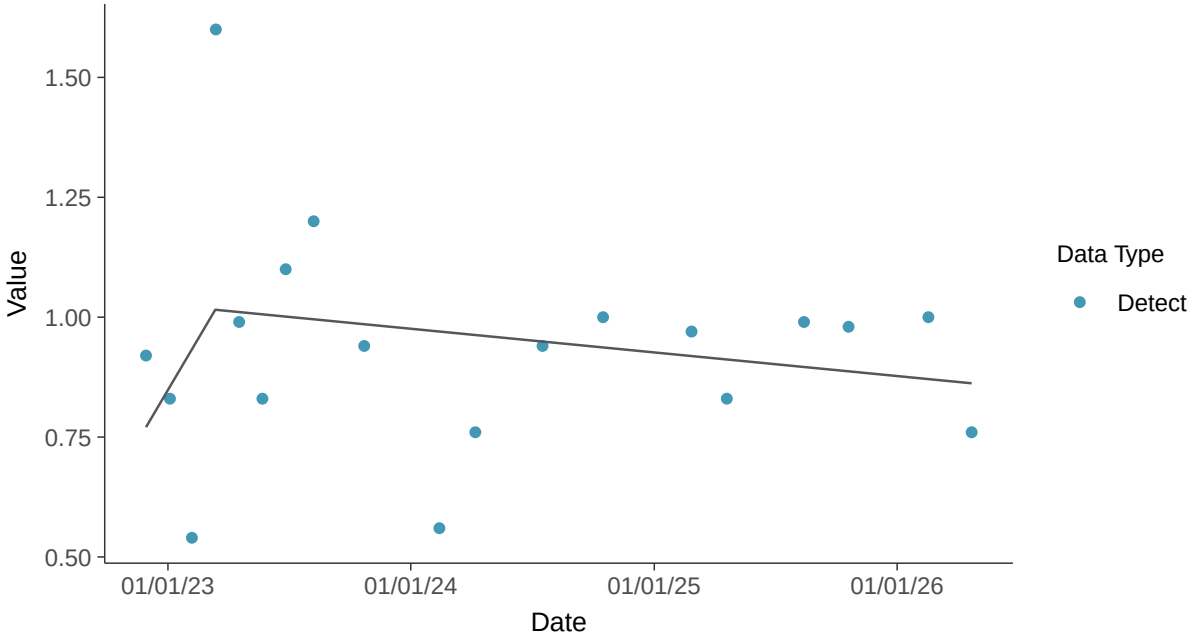
Trend Regression: Lognormal MLE

Lithium, MW-10 (mg/L)



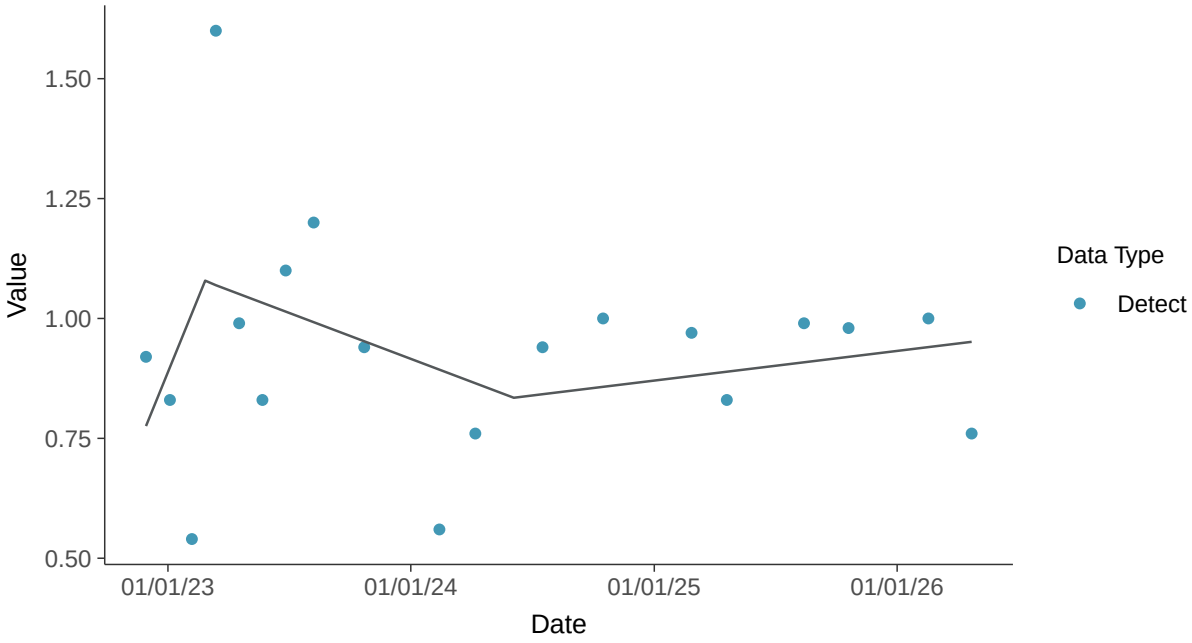
Trend Regression: Piecewise Linear-Linear

Lithium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lithium, MW-10 (mg/L)

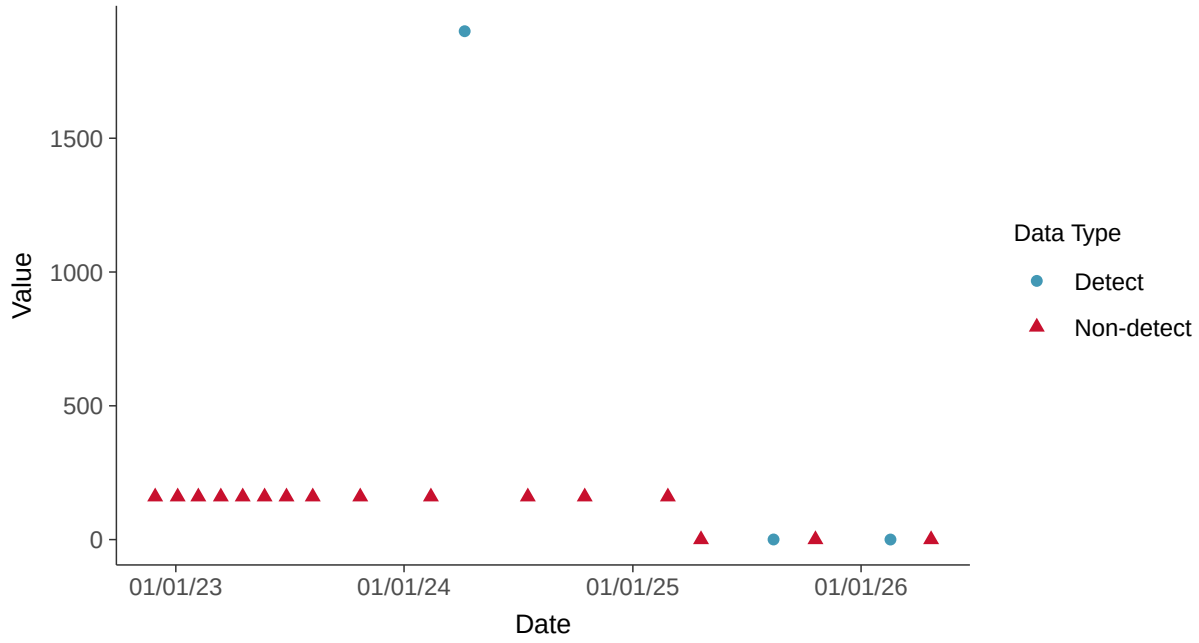


Appendix IV: Mercury, MW-10

ID: 20_3_4_117

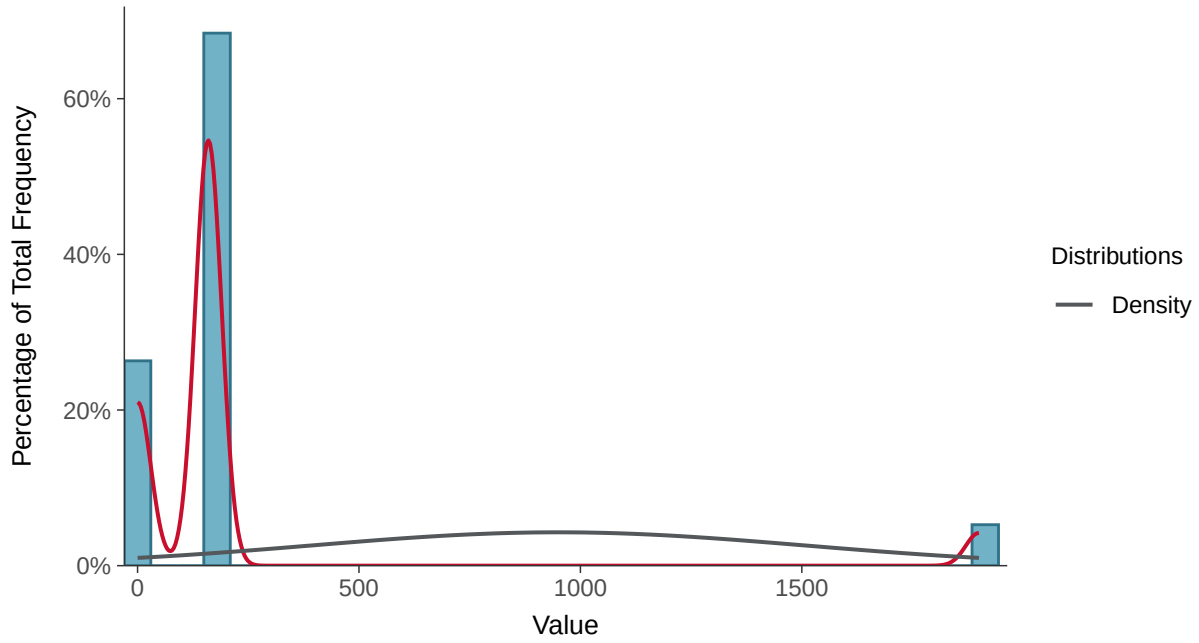
Scatter Plot

Mercury, MW-10 (ng/L)



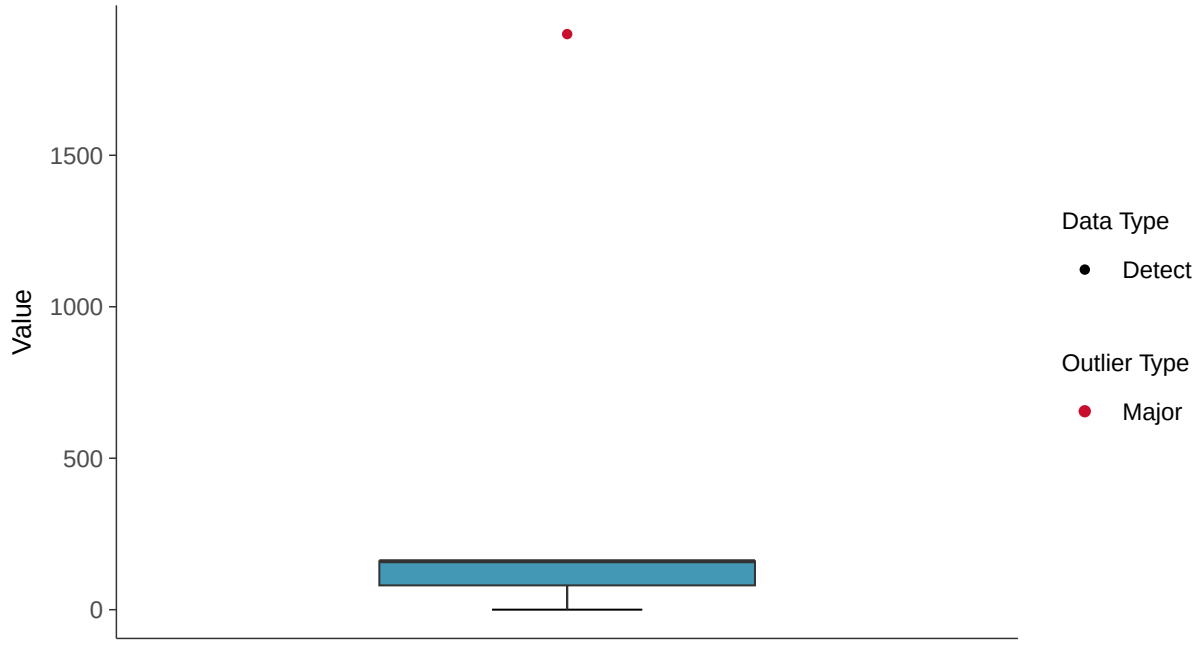
Histogram

Mercury, MW-10 (ng/L)



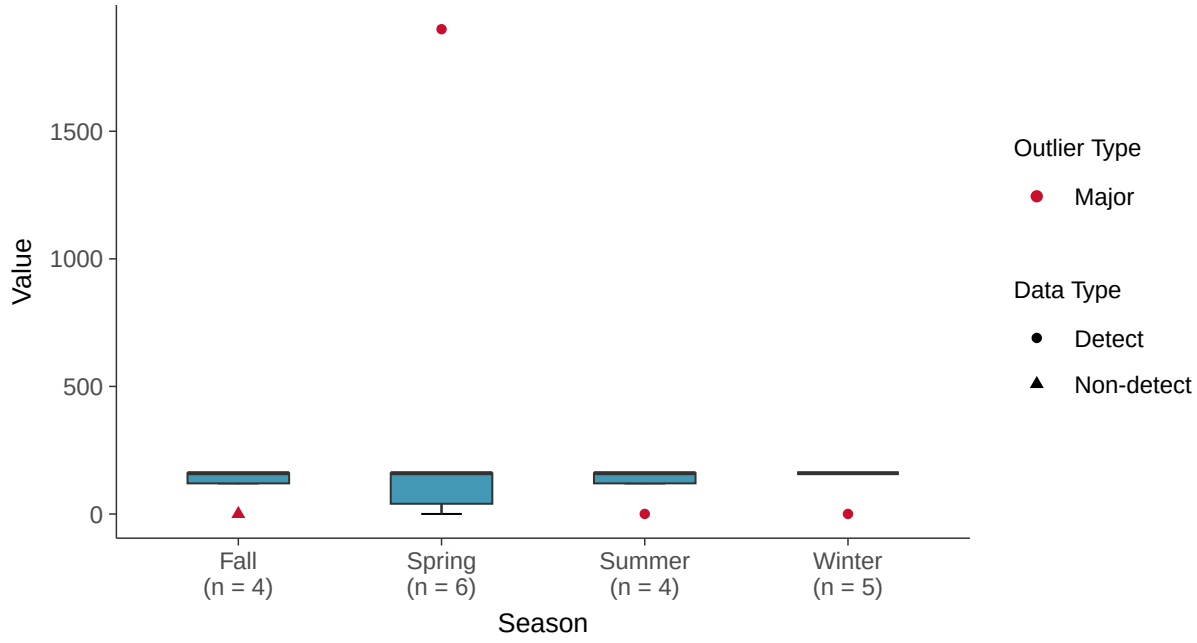
Boxplot

Mercury, MW-10 (ng/L)



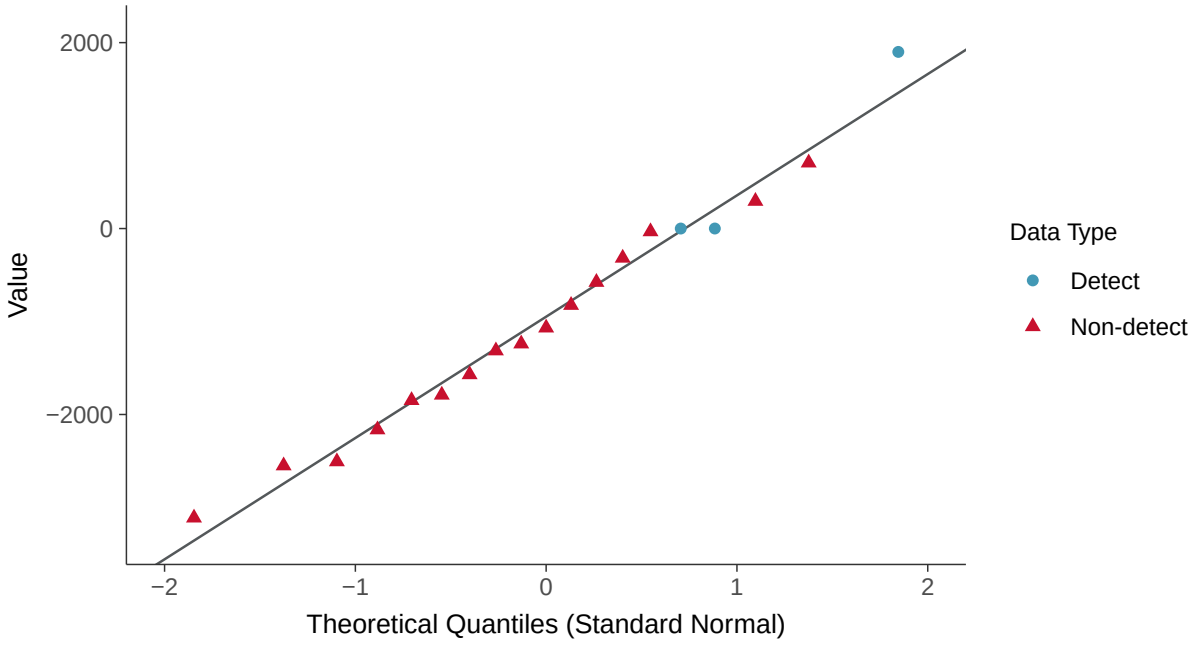
Boxplot by Season

Mercury, MW-10 (ng/L)



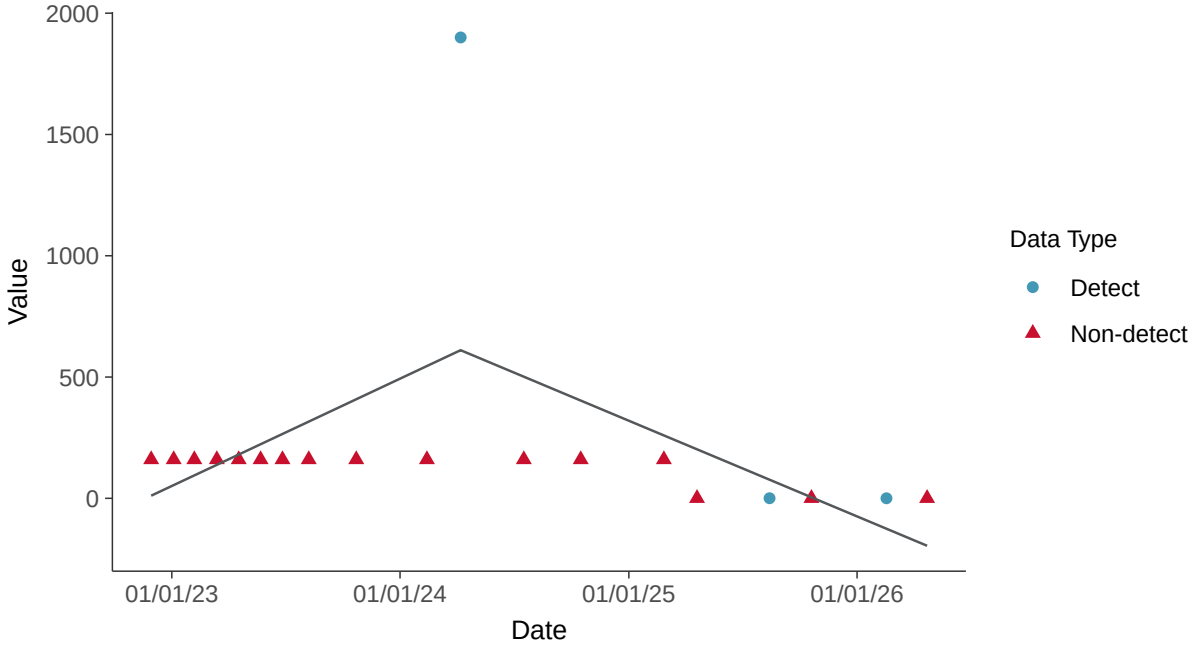
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-10 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-10 (ng/L)

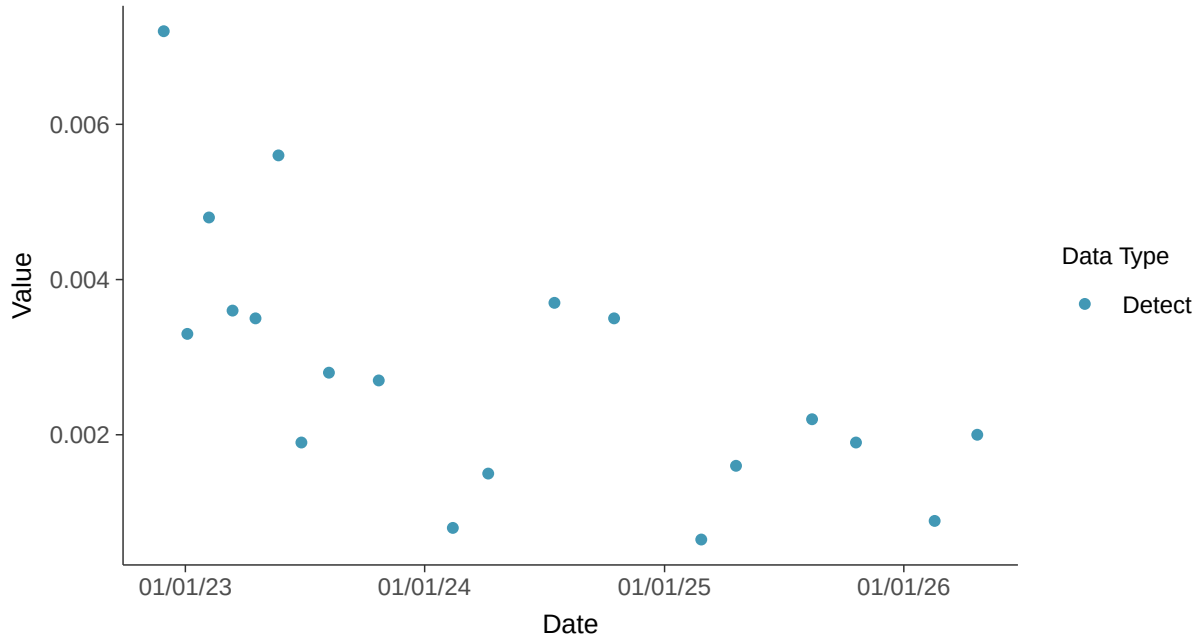


Appendix IV: Molybdenum, MW-10

ID: 20_3_4_118

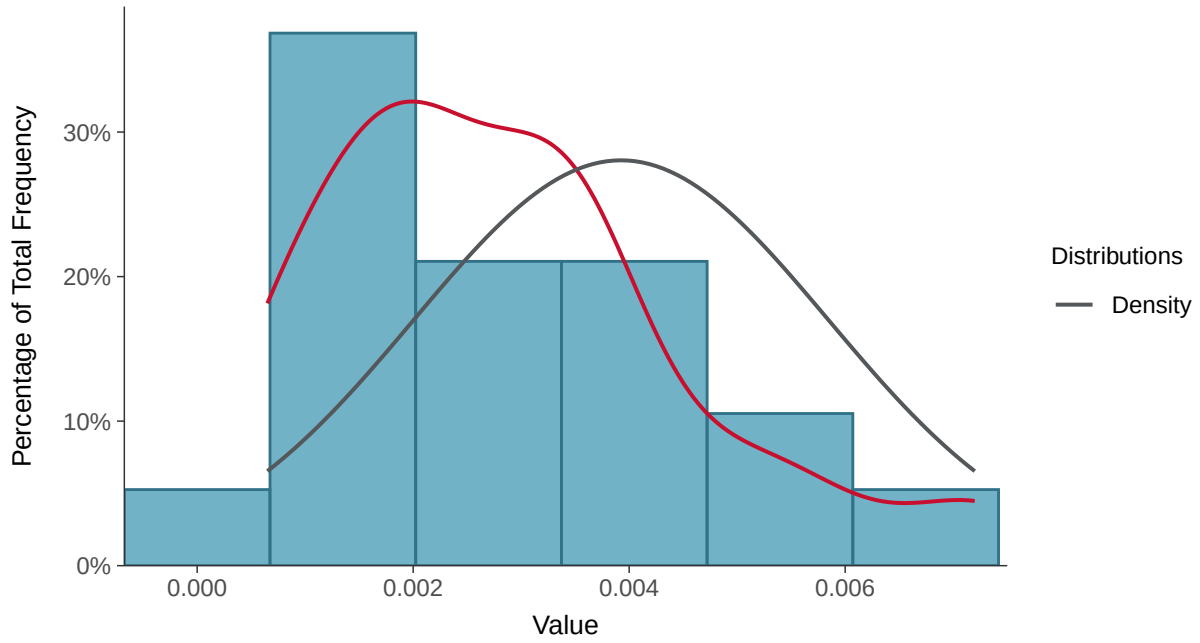
Scatter Plot

Molybdenum, MW-10 (mg/L)



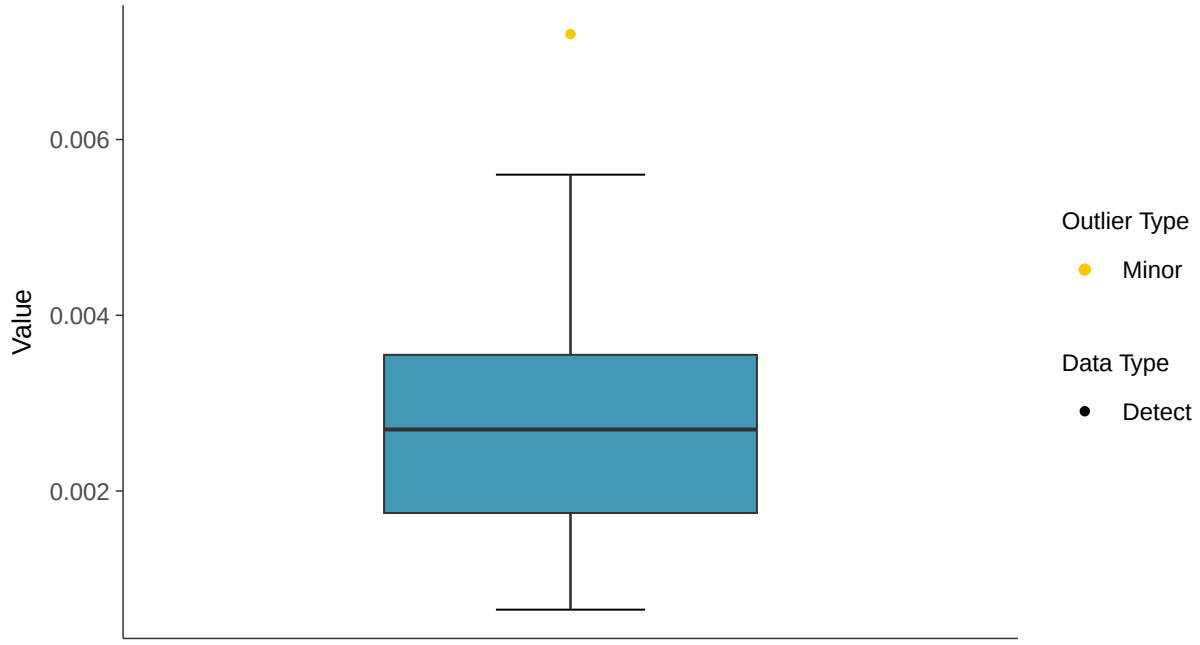
Histogram

Molybdenum, MW-10 (mg/L)



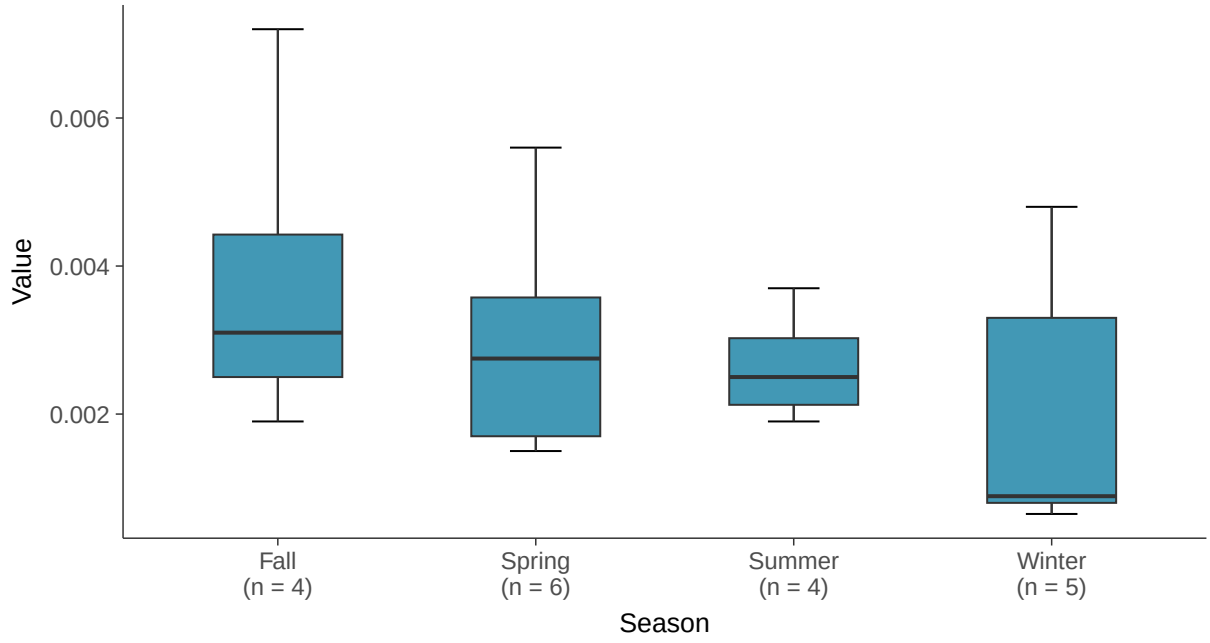
Boxplot

Molybdenum, MW-10 (mg/L)



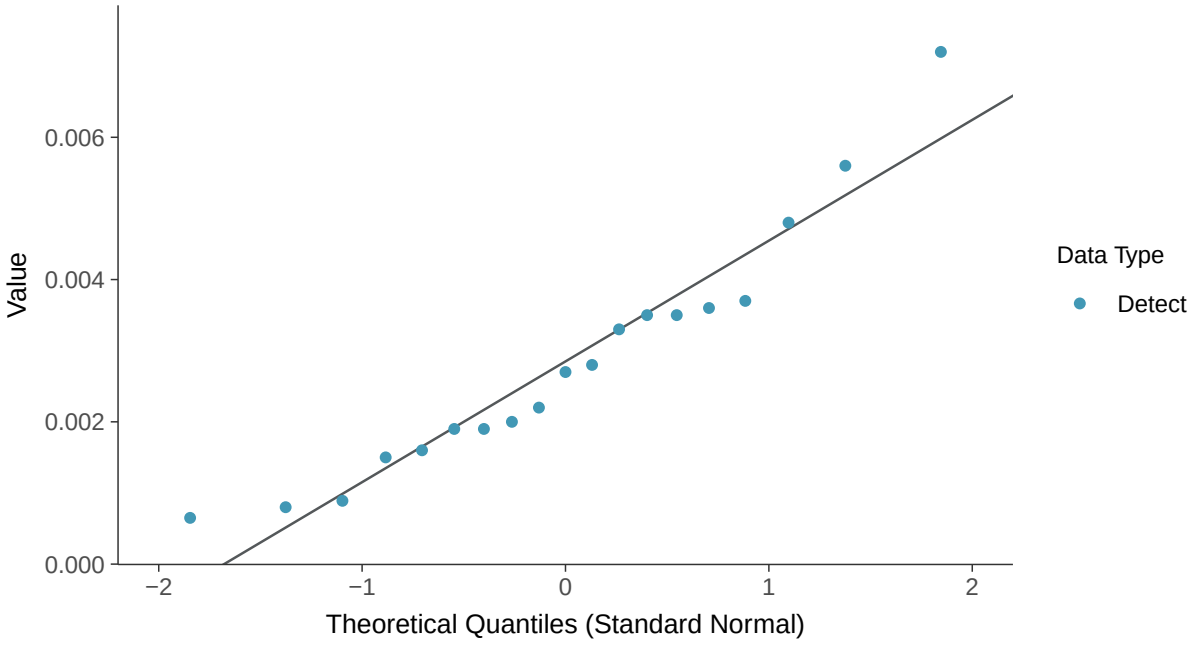
Boxplot by Season

Molybdenum, MW-10 (mg/L)



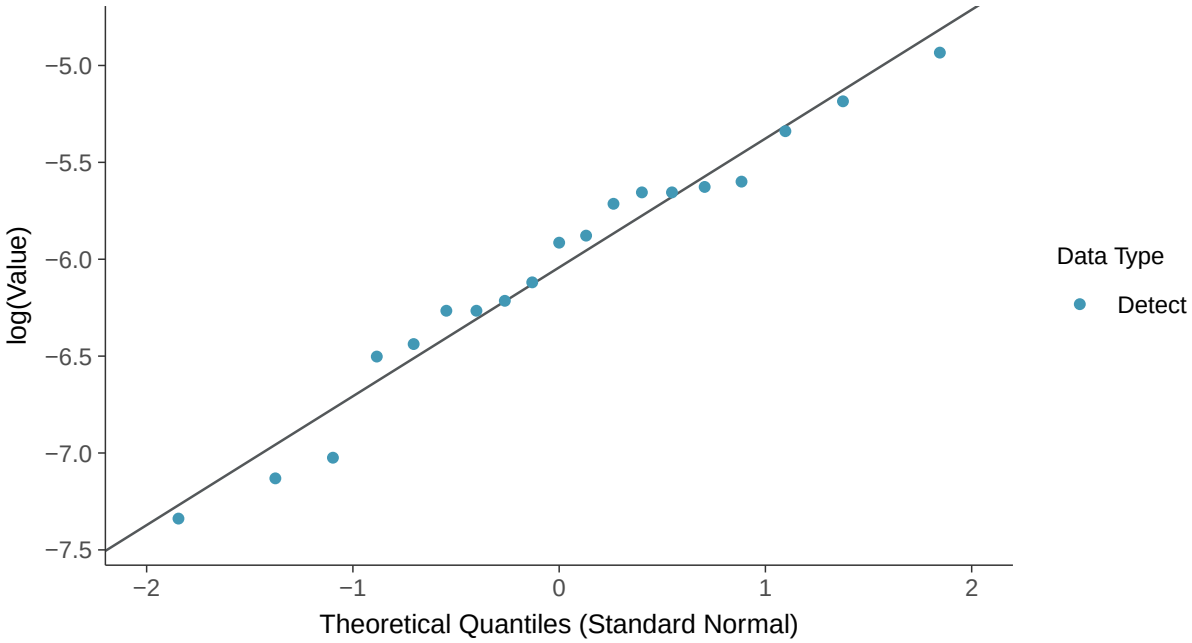
Normal Q-Q plot

Molybdenum, MW-10 (mg/L)



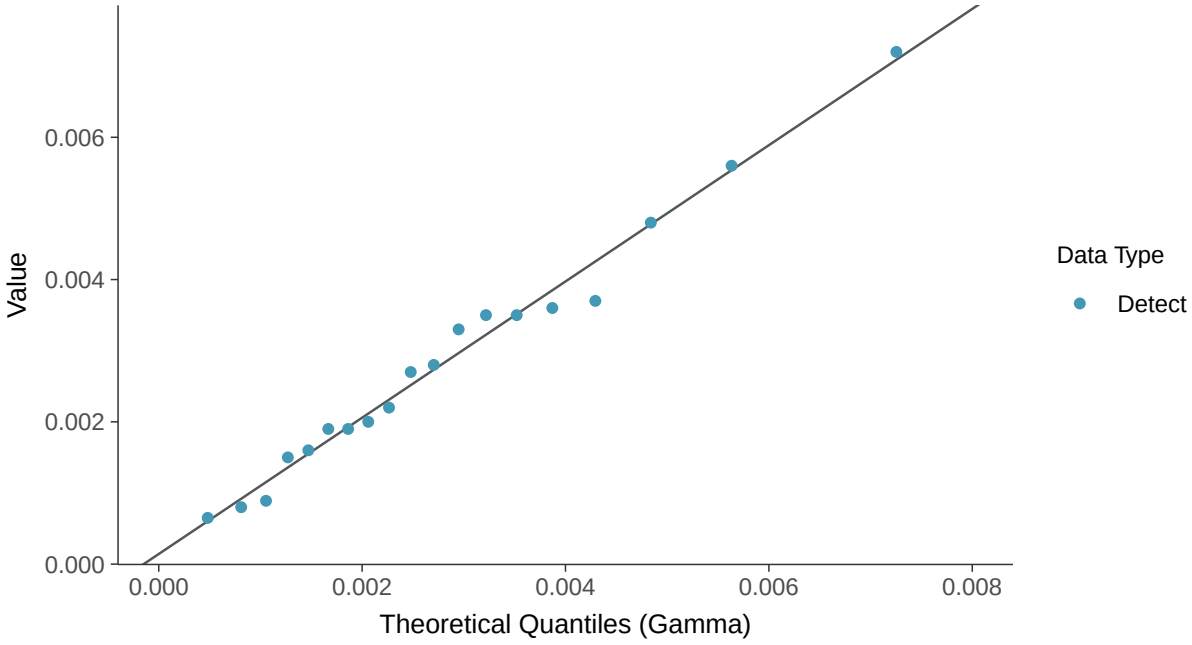
Lognormal Q-Q plot

Molybdenum, MW-10 (mg/L)



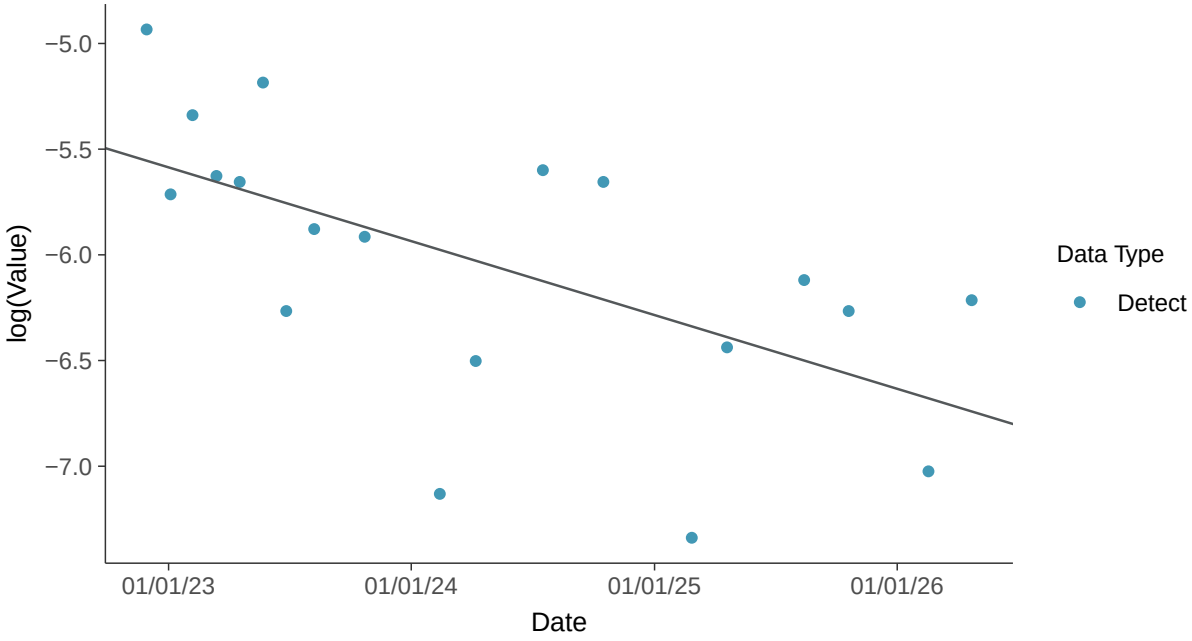
Gamma Q-Q plot

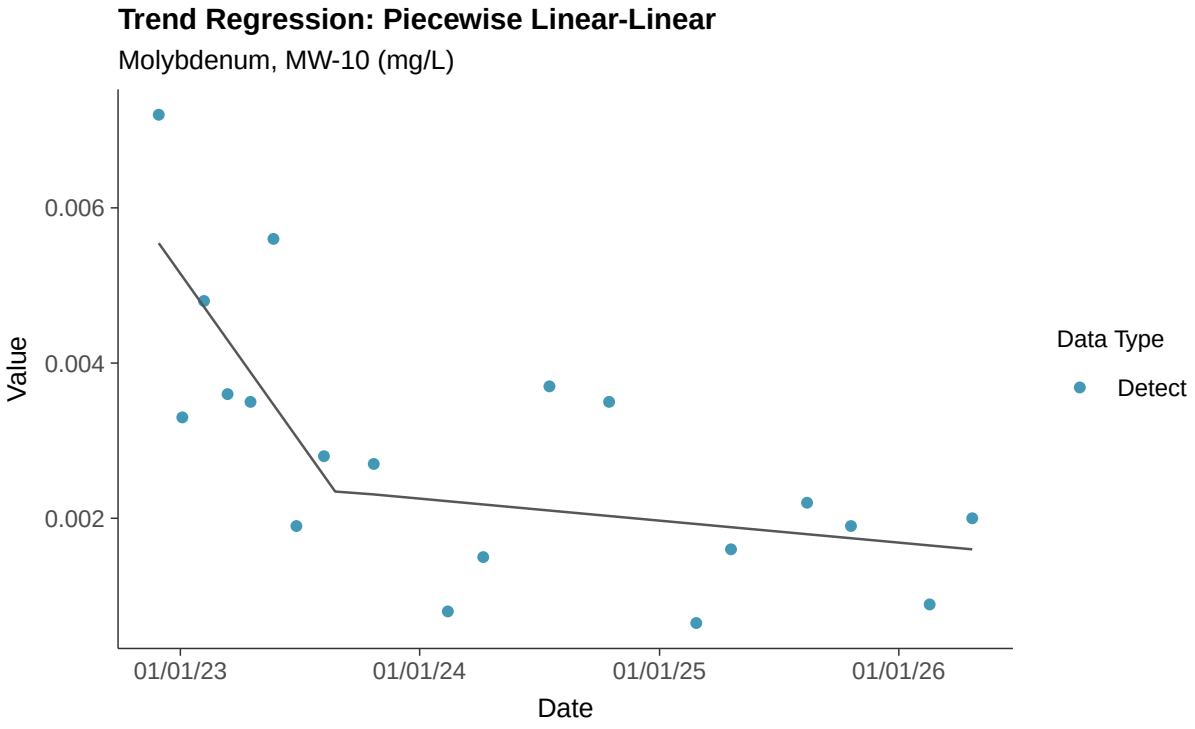
Molybdenum, MW-10 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-10 (mg/L)



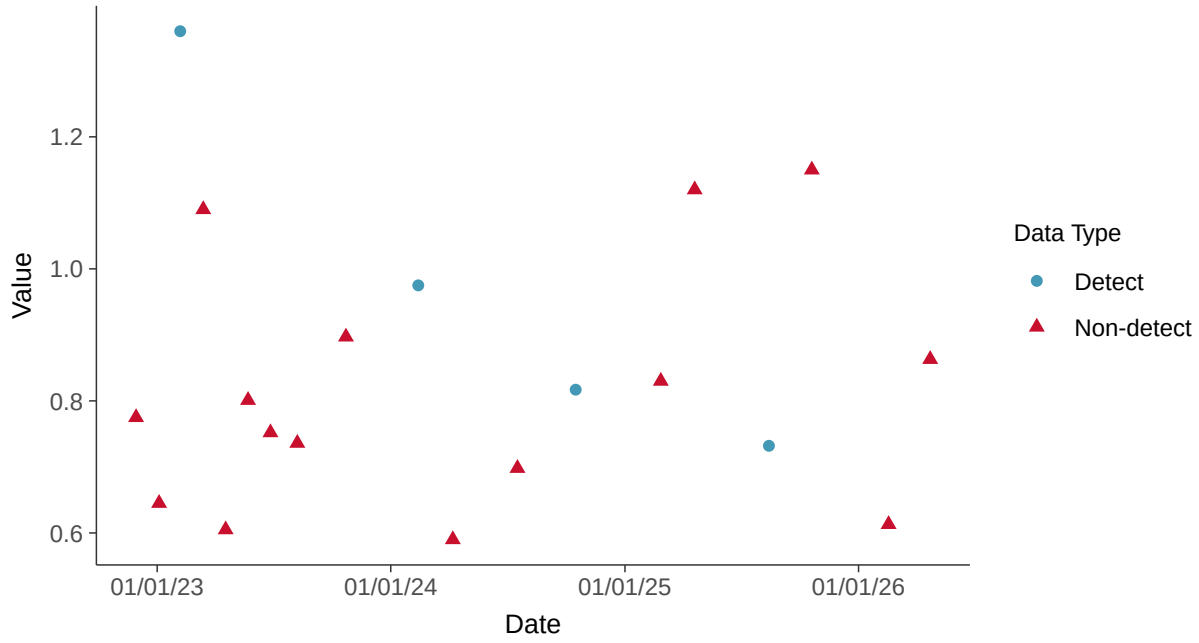

Trend Regression: Piecewise Linear-Linear
Molybdenum, MW-10 (mg/L)
Value
0.006
0.004
0.002
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Radium 226 and 228, MW-10

ID: 20_3_4_121

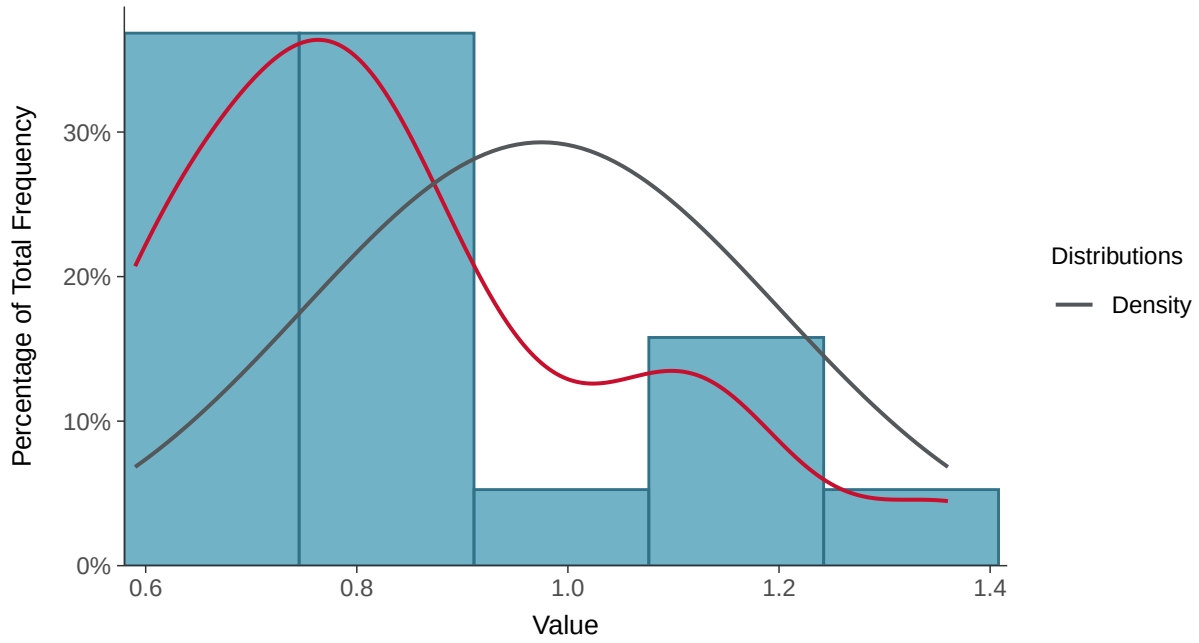
Scatter Plot

Radium 226 and 228, MW-10 (pCi/L)



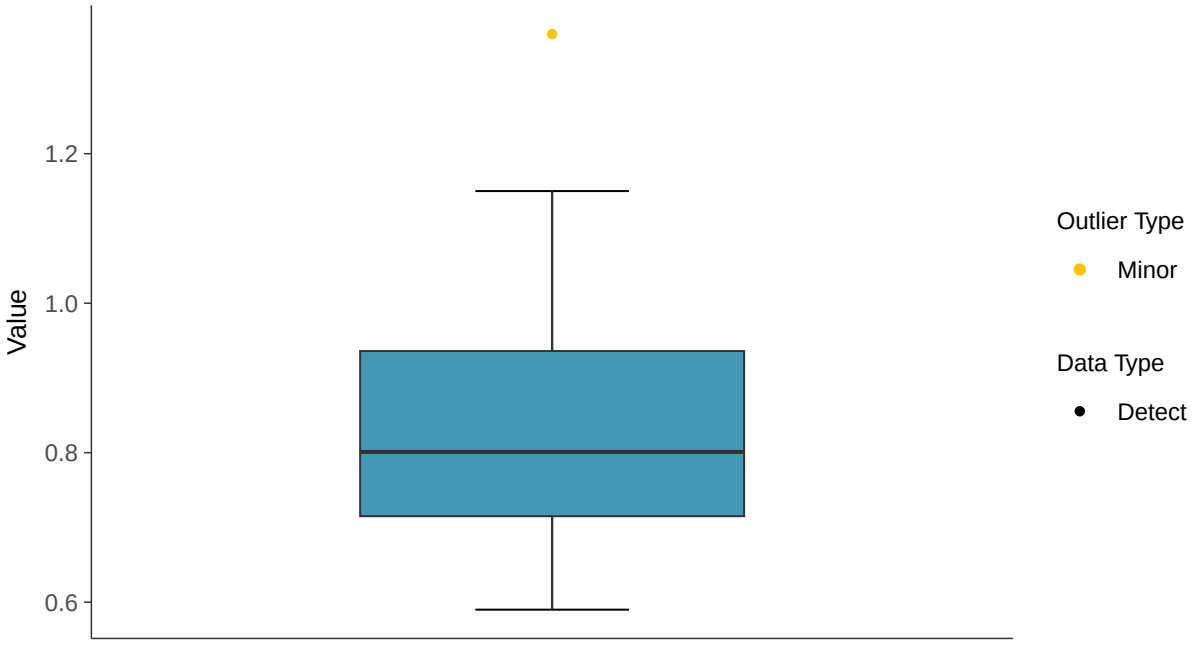
Histogram

Radium 226 and 228, MW-10 (pCi/L)



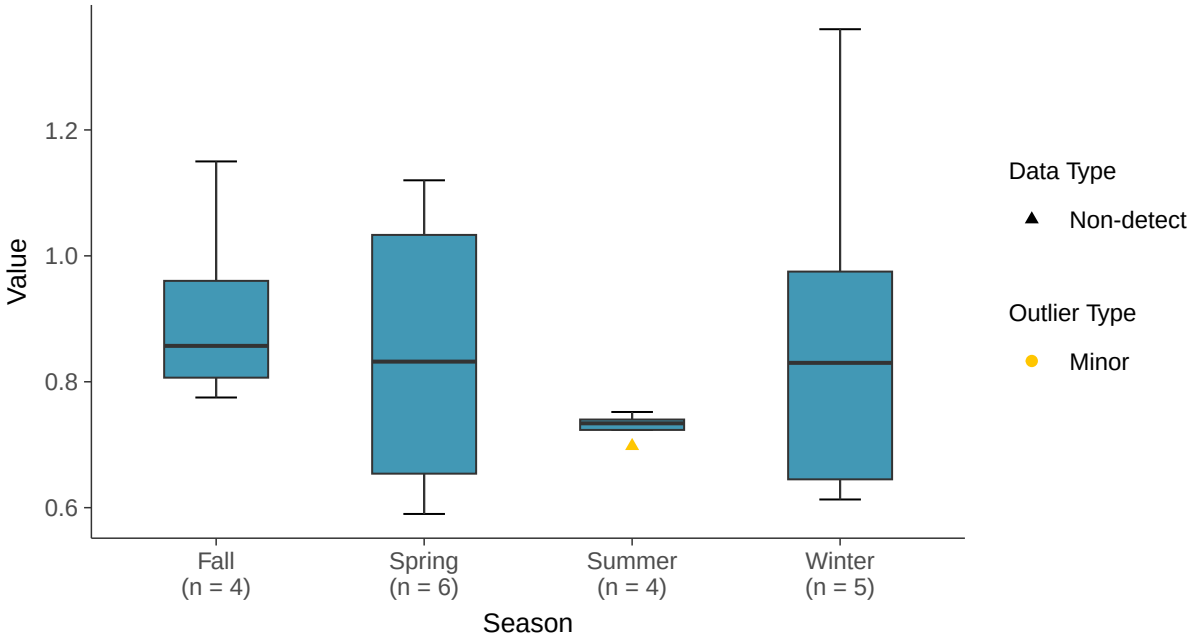
Boxplot

Radium 226 and 228, MW-10 (pCi/L)



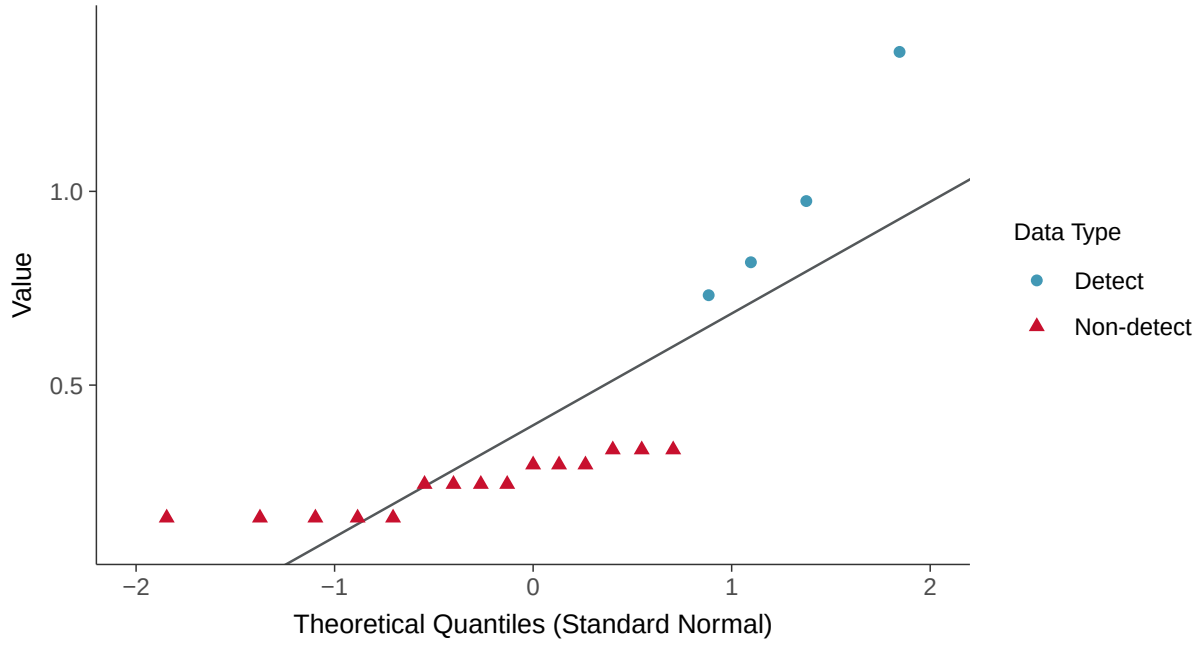
Boxplot by Season

Radium 226 and 228, MW-10 (pCi/L)



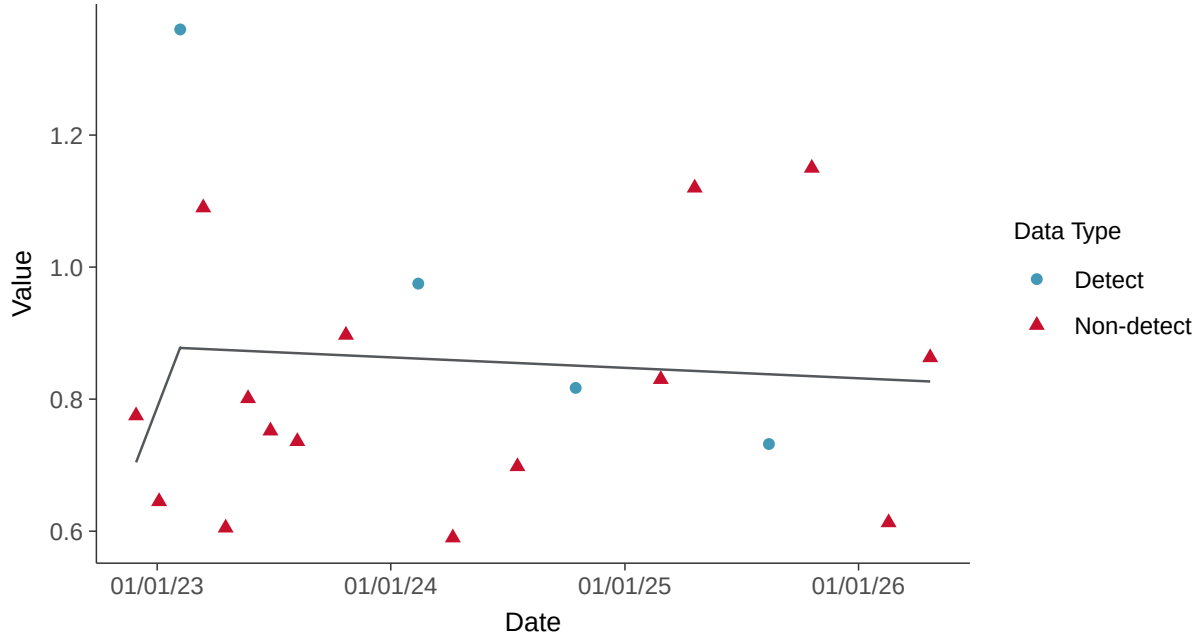
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-10 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-10 (pCi/L)

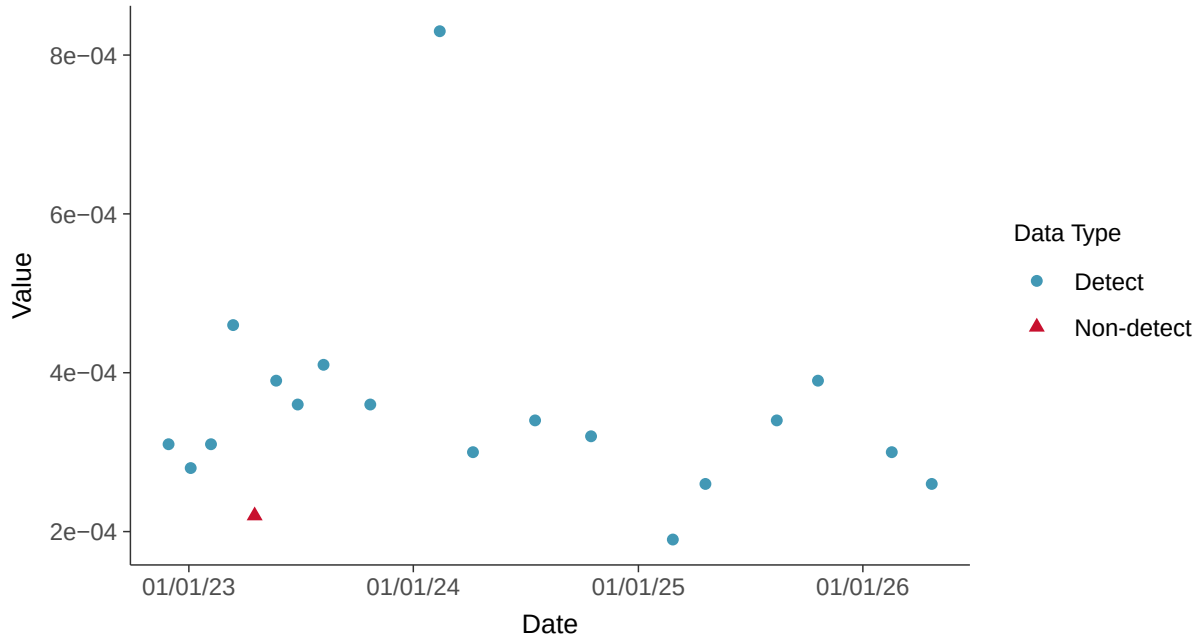


Appendix IV: Selenium, MW-10

ID: 20_3_4_122

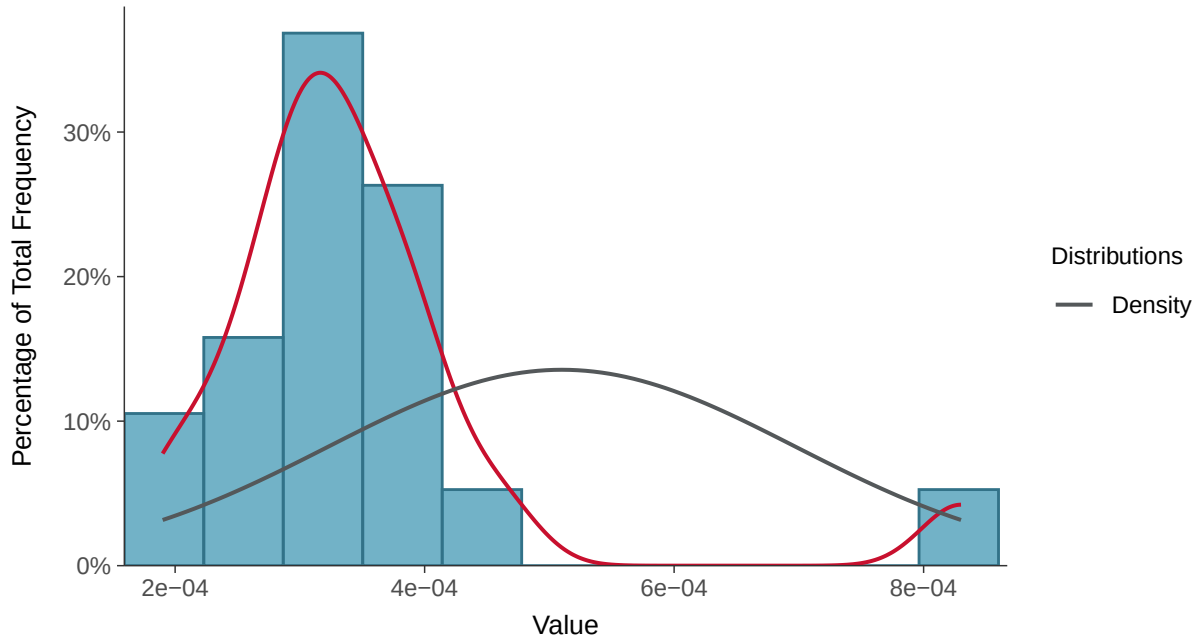
Scatter Plot

Selenium, MW-10 (mg/L)



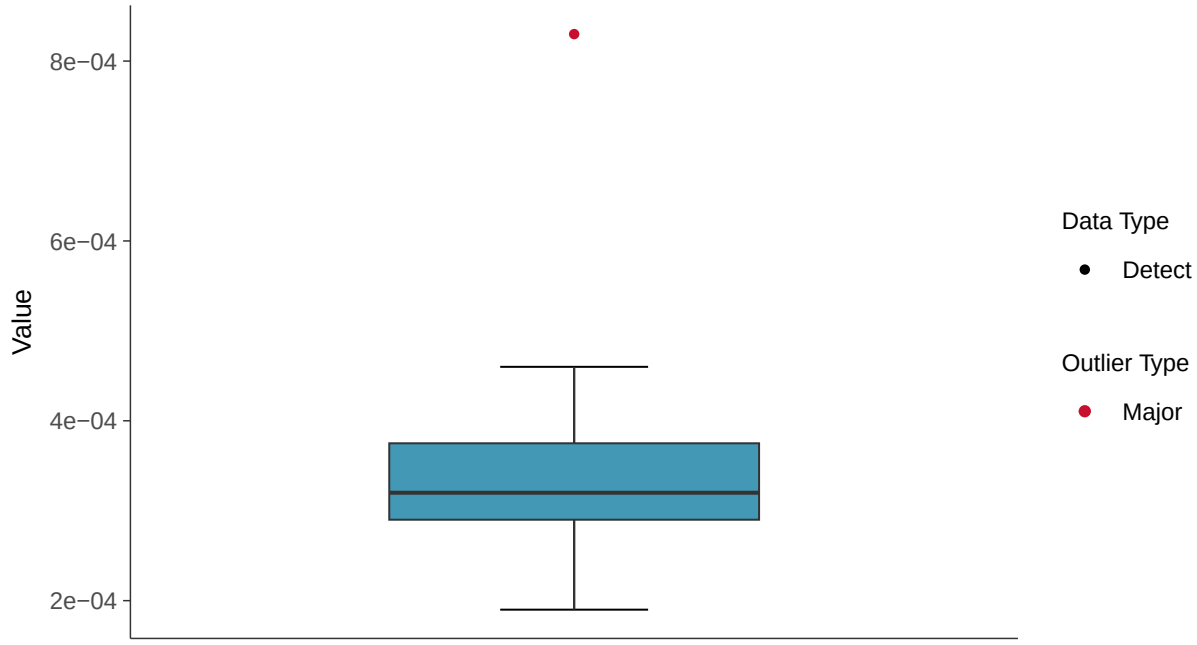
Histogram

Selenium, MW-10 (mg/L)



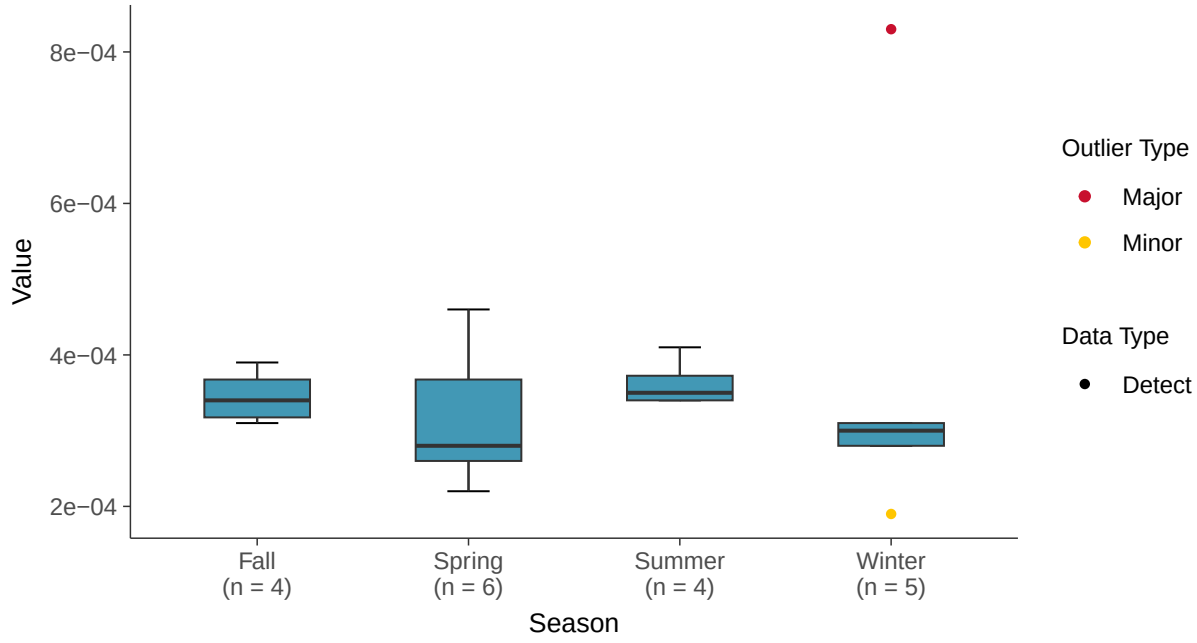
Boxplot

Selenium, MW-10 (mg/L)



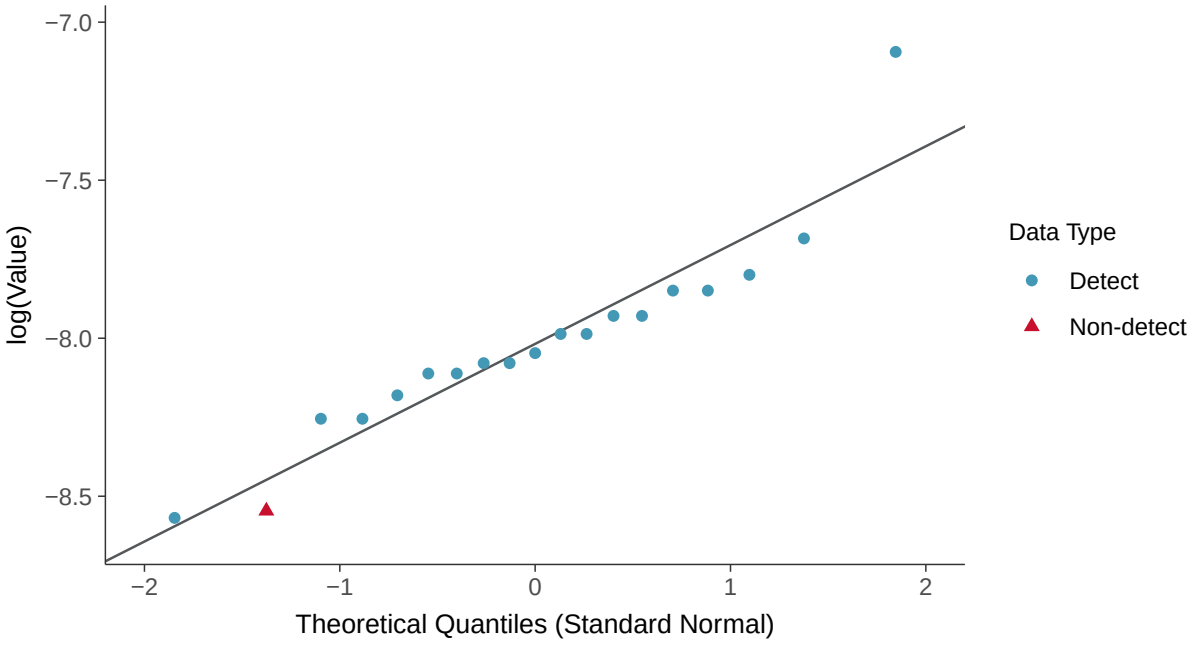
Boxplot by Season

Selenium, MW-10 (mg/L)



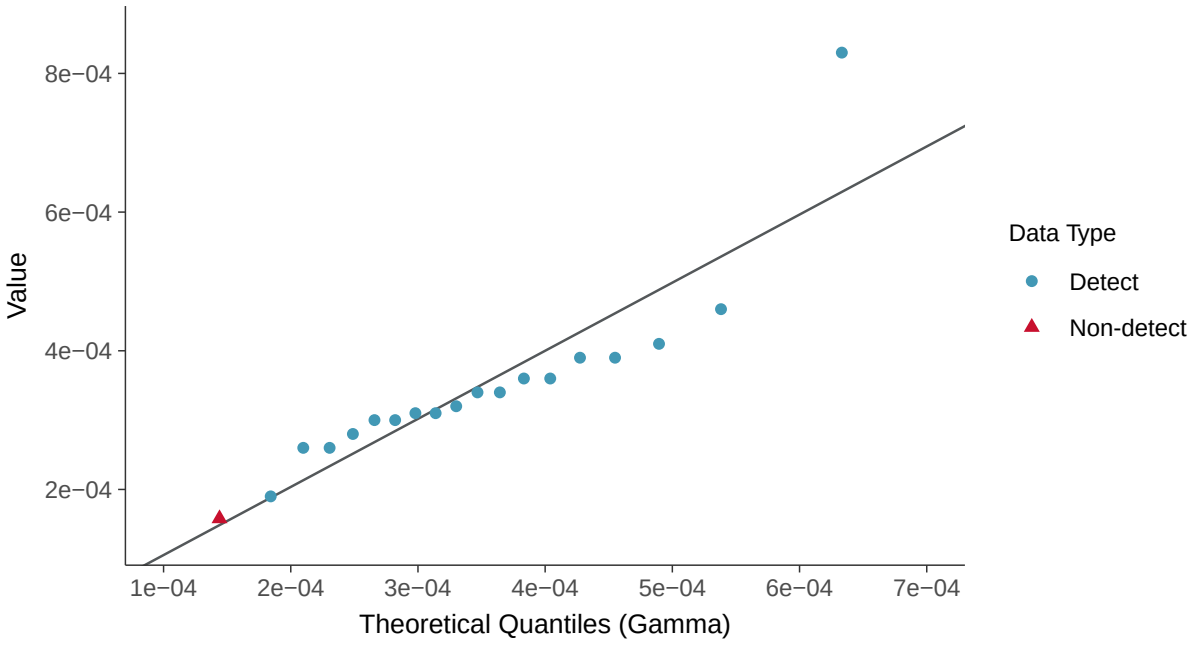
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-10 (mg/L)



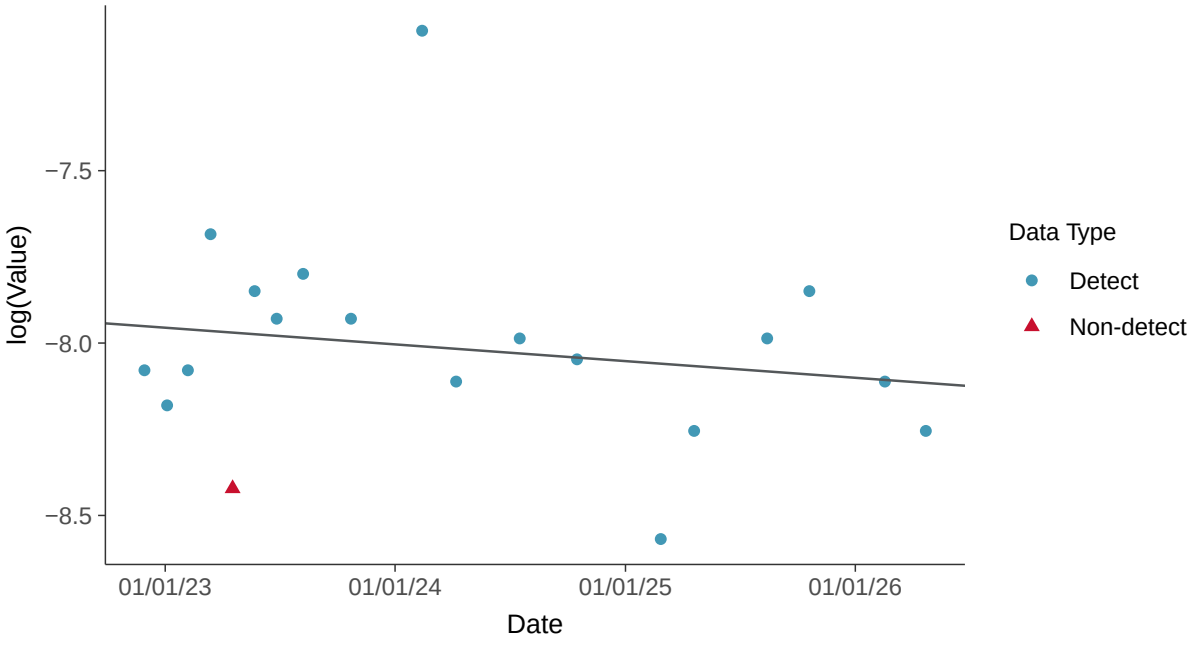
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-10 (mg/L)



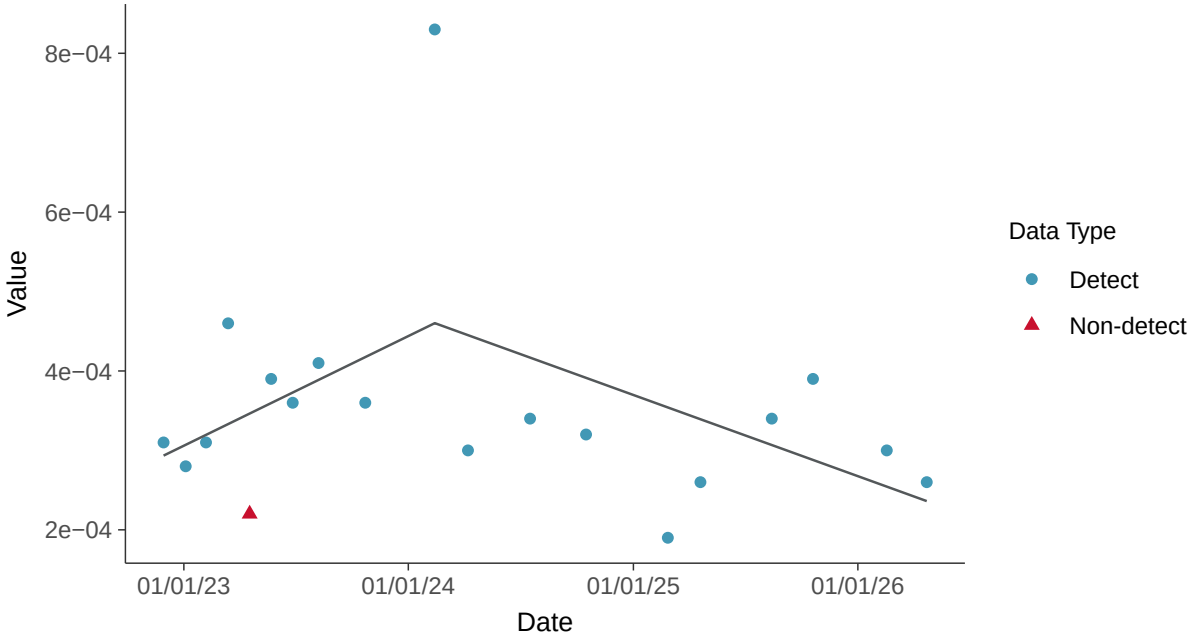
Trend Regression: Lognormal MLE

Selenium, MW-10 (mg/L)



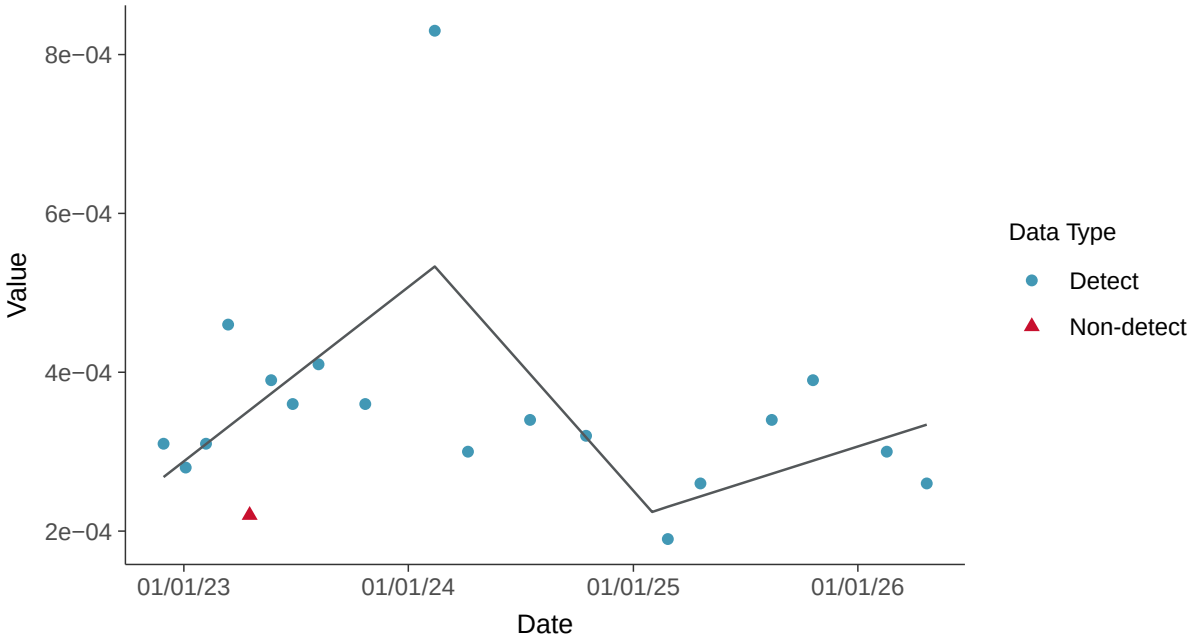
Trend Regression: Piecewise Linear-Linear

Selenium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-10 (mg/L)

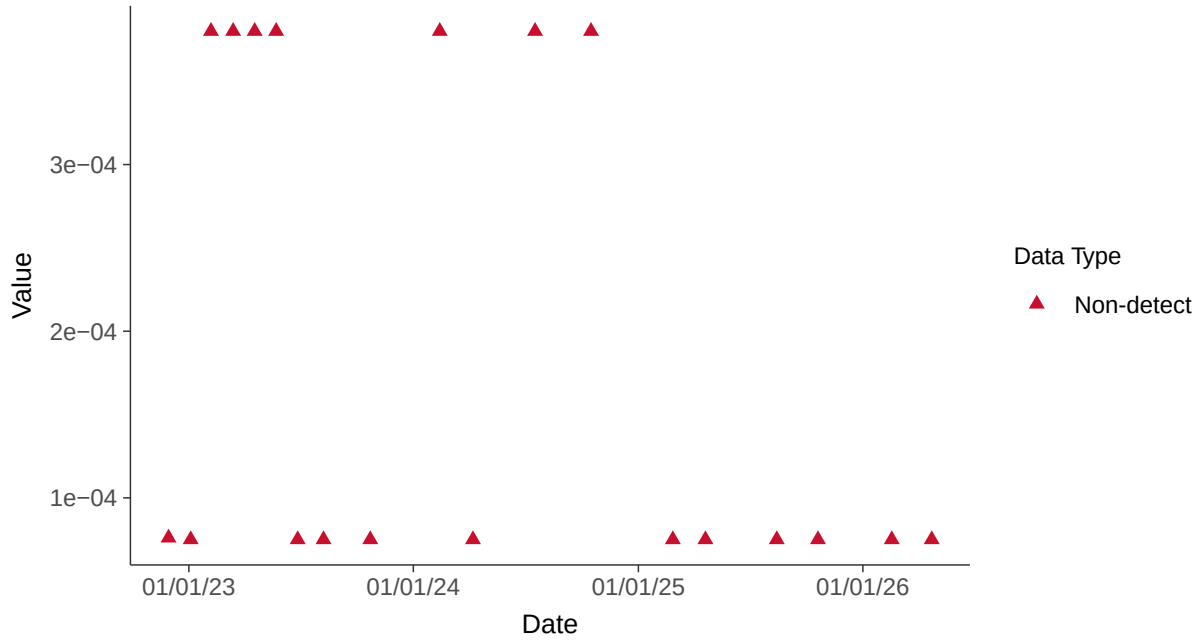


Appendix IV: Thallium, MW-10

ID: 20_3_4_125

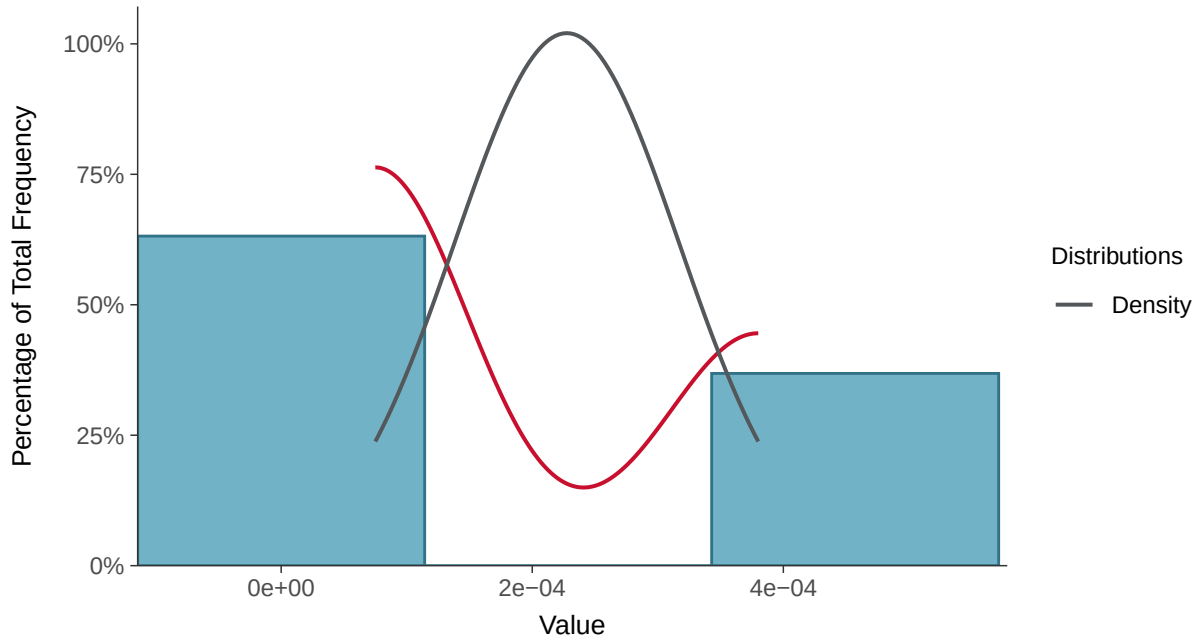
Scatter Plot

Thallium, MW-10 (mg/L)



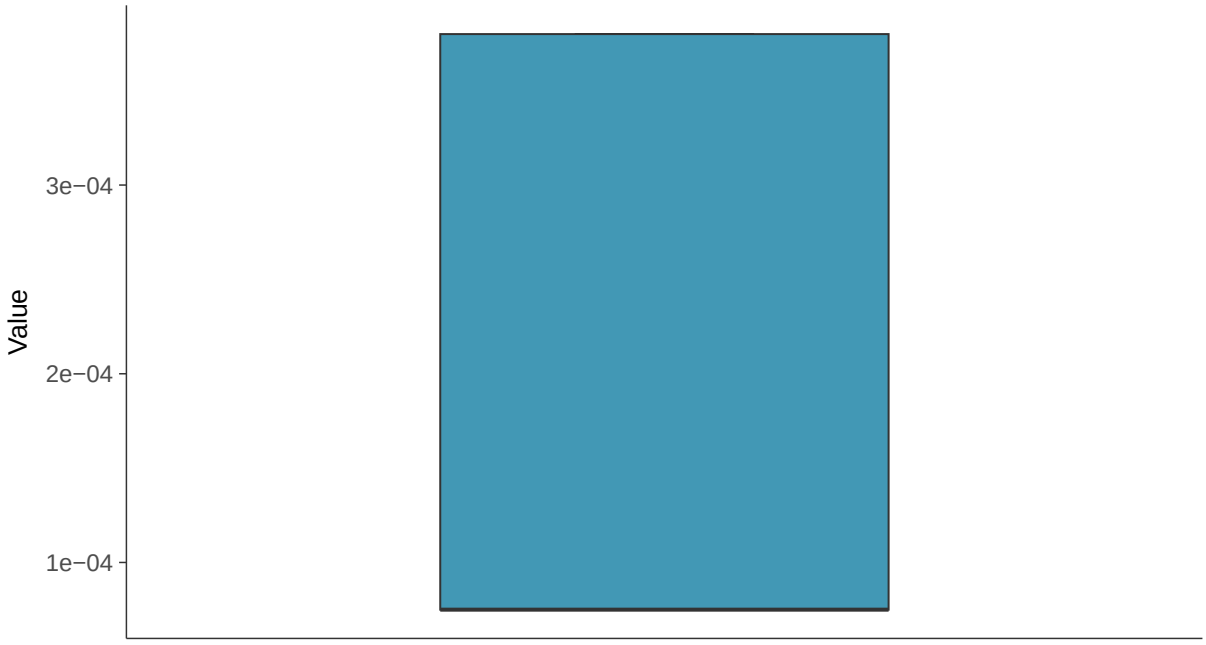
Histogram

Thallium, MW-10 (mg/L)



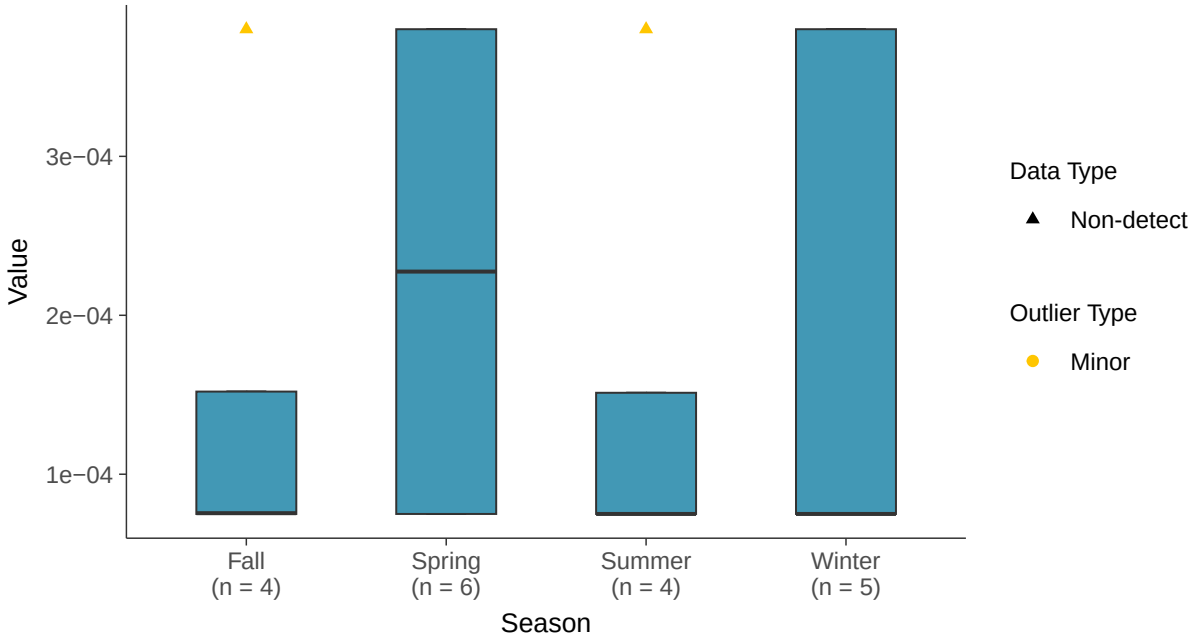
Boxplot

Thallium, MW-10 (mg/L)



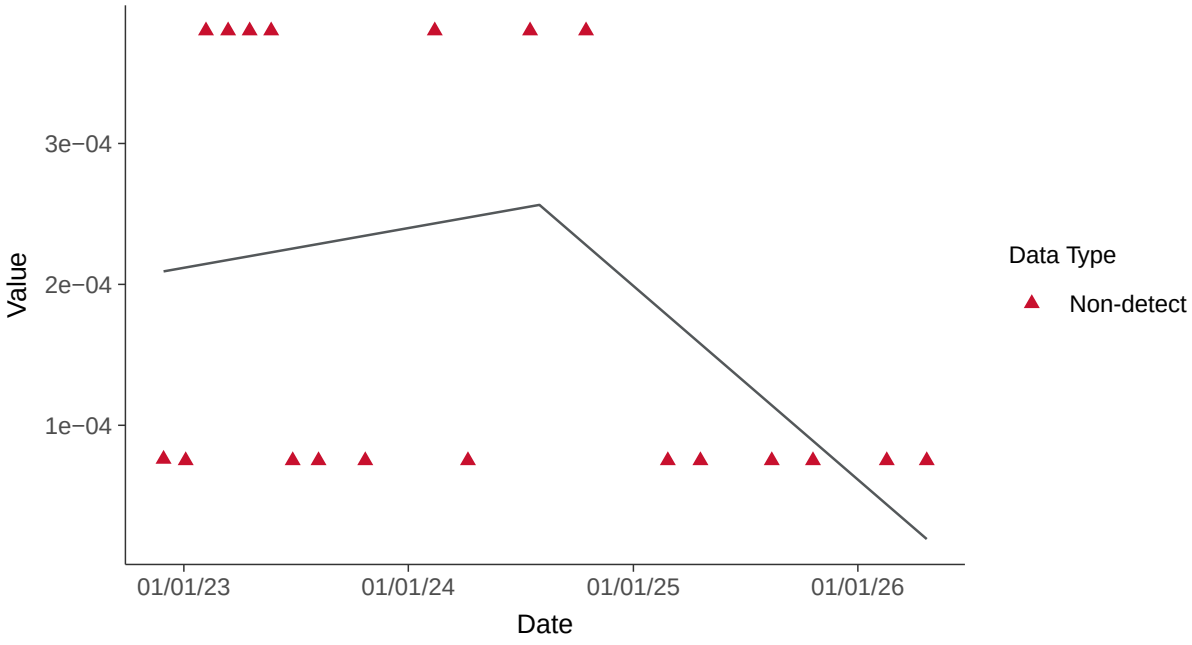
Boxplot by Season

Thallium, MW-10 (mg/L)



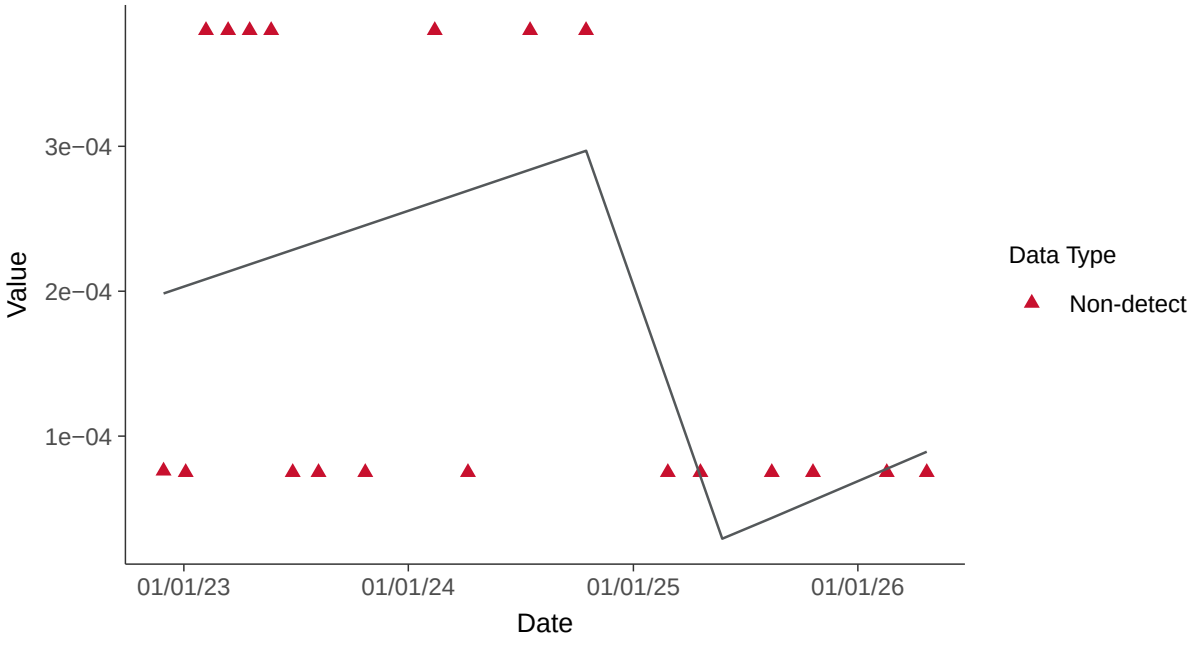
Trend Regression: Piecewise Linear-Linear

Thallium, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-10 (mg/L)

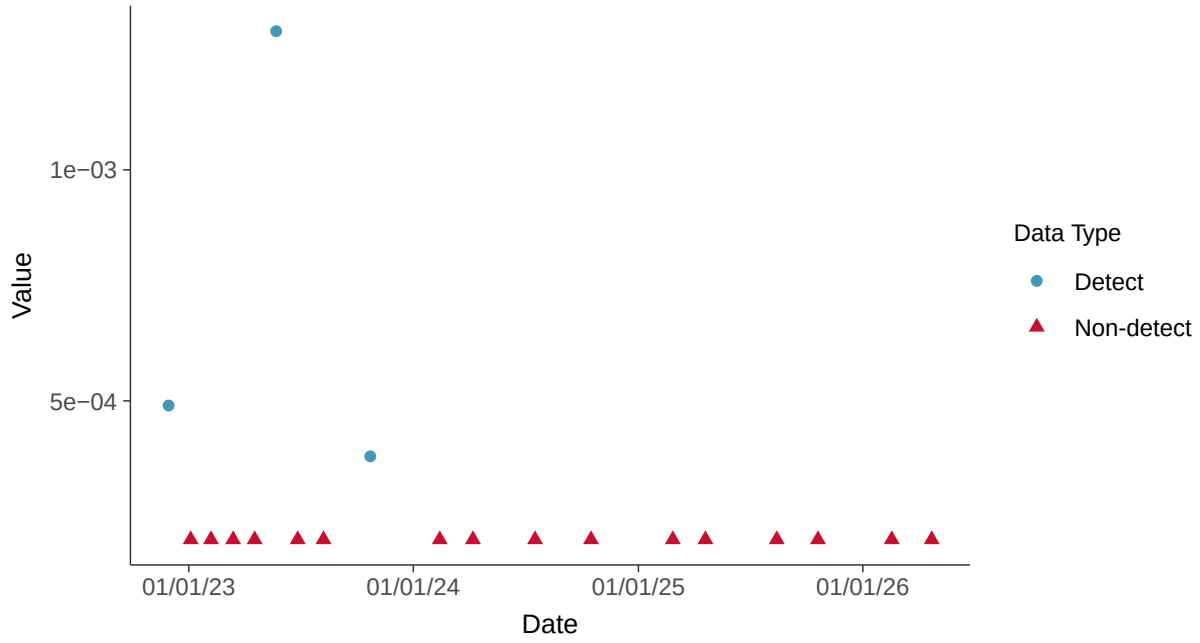


Part 115: Copper, MW-10

ID: 20_3_5_111

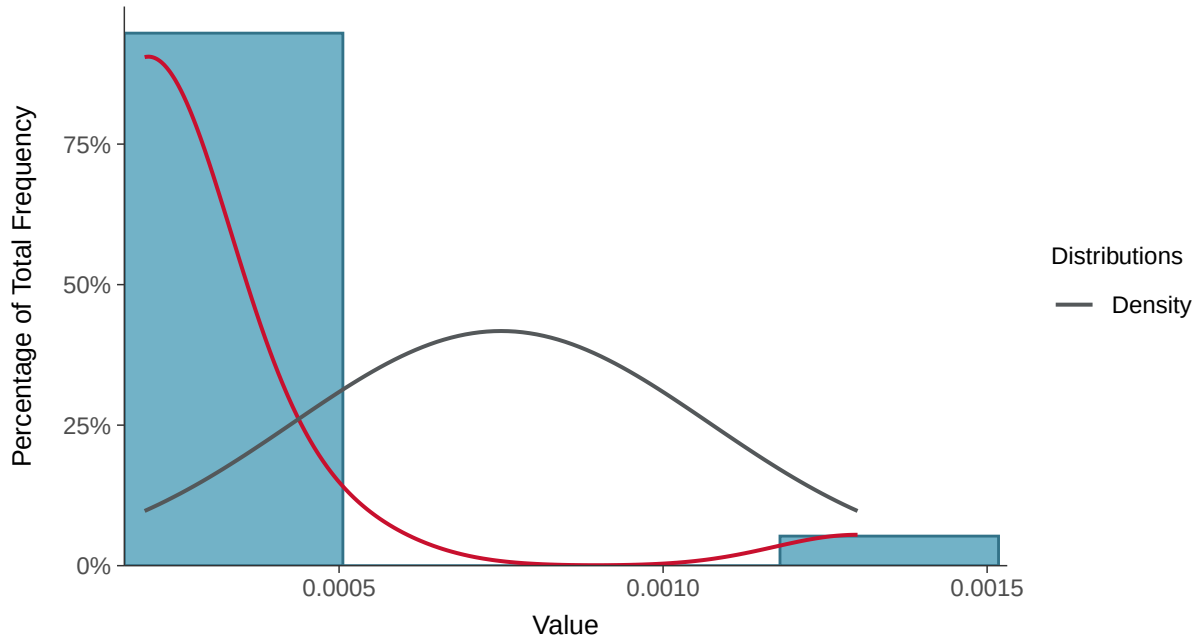
Scatter Plot

Copper, MW-10 (mg/L)



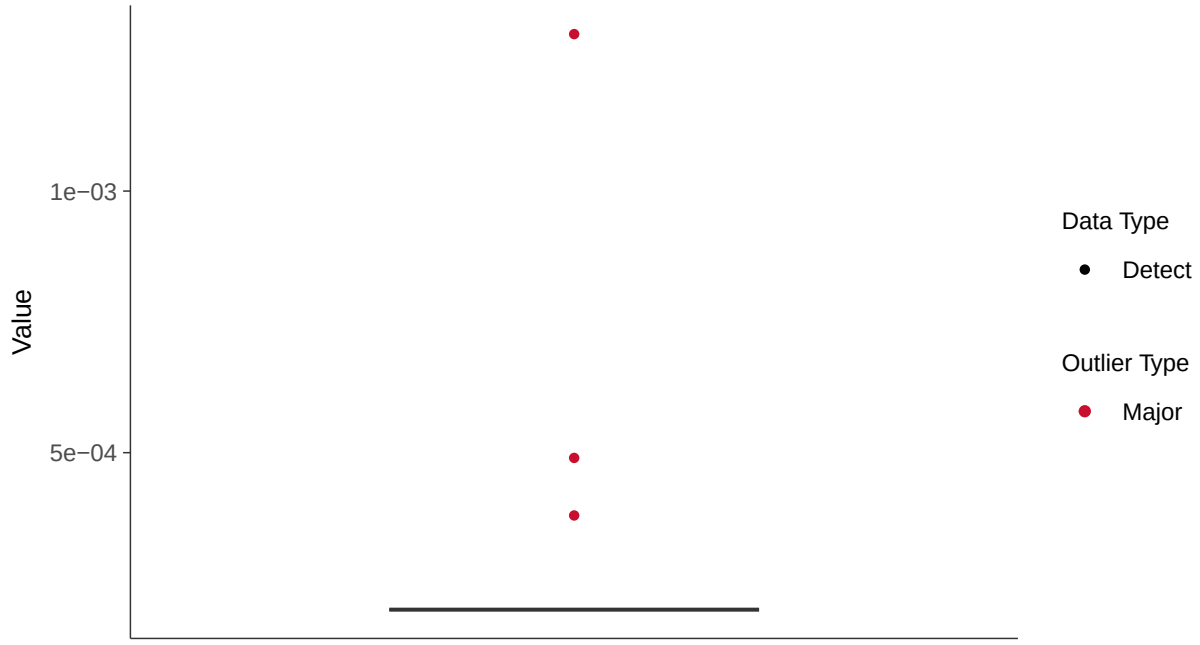
Histogram

Copper, MW-10 (mg/L)



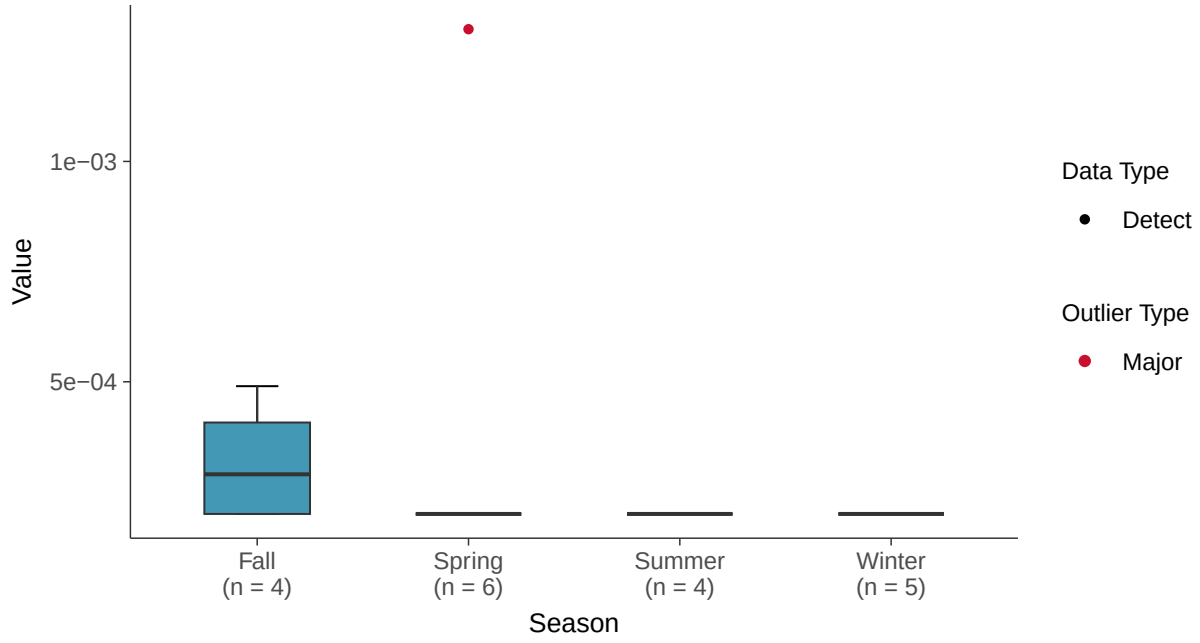
Boxplot

Copper, MW-10 (mg/L)



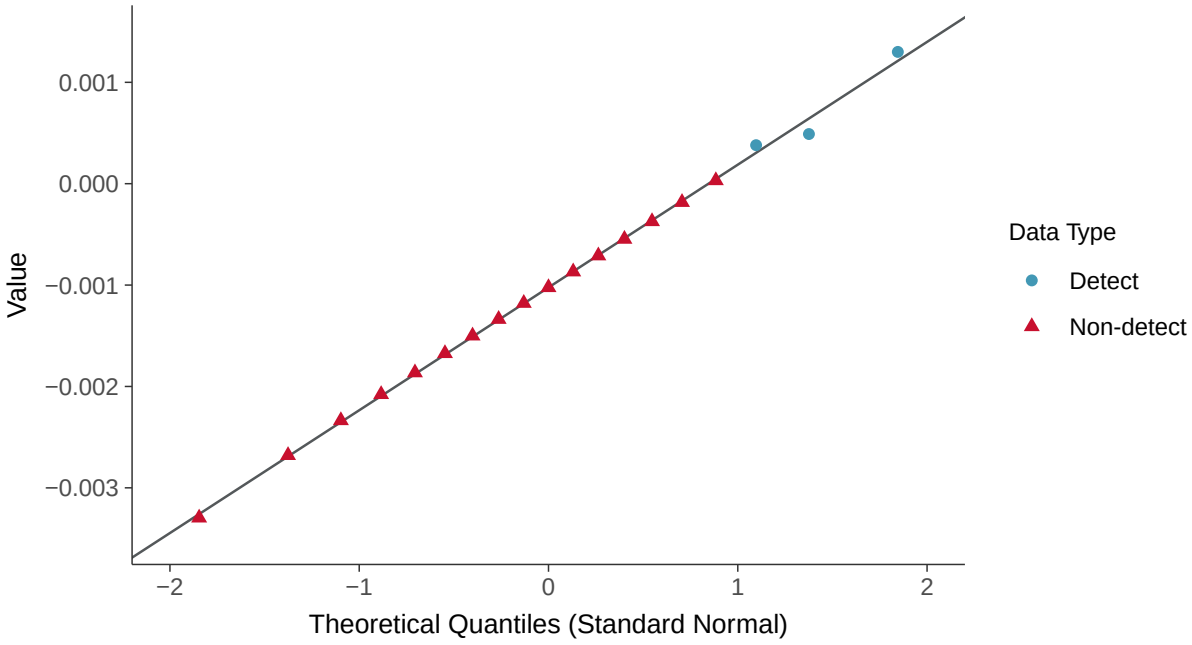
Boxplot by Season

Copper, MW-10 (mg/L)



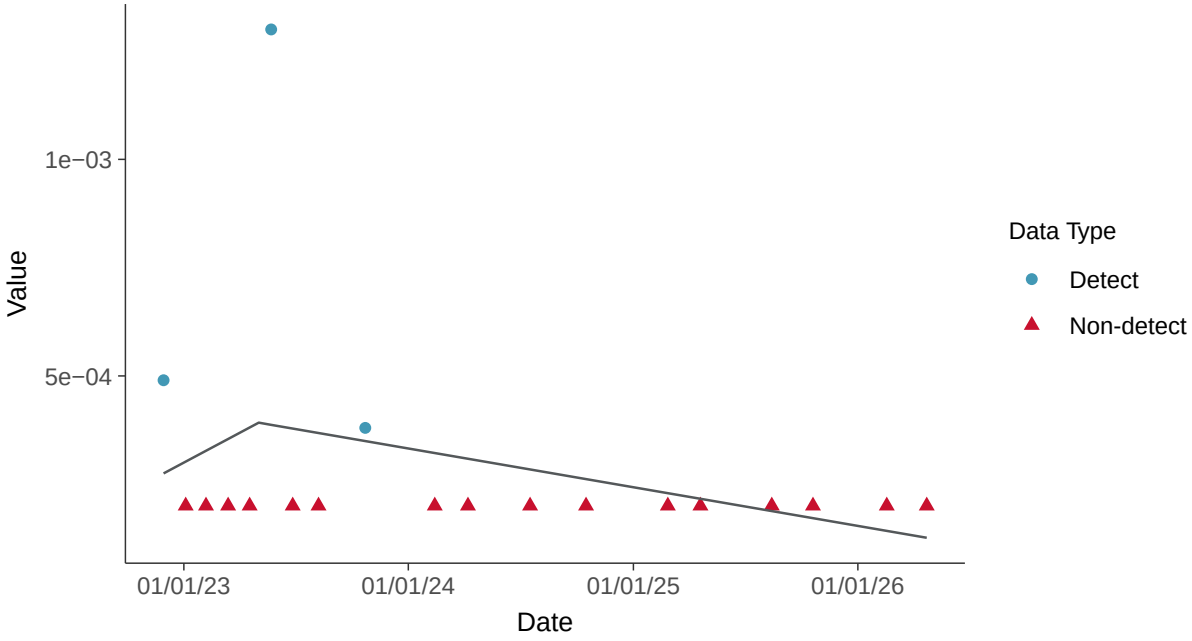
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-10 (mg/L)



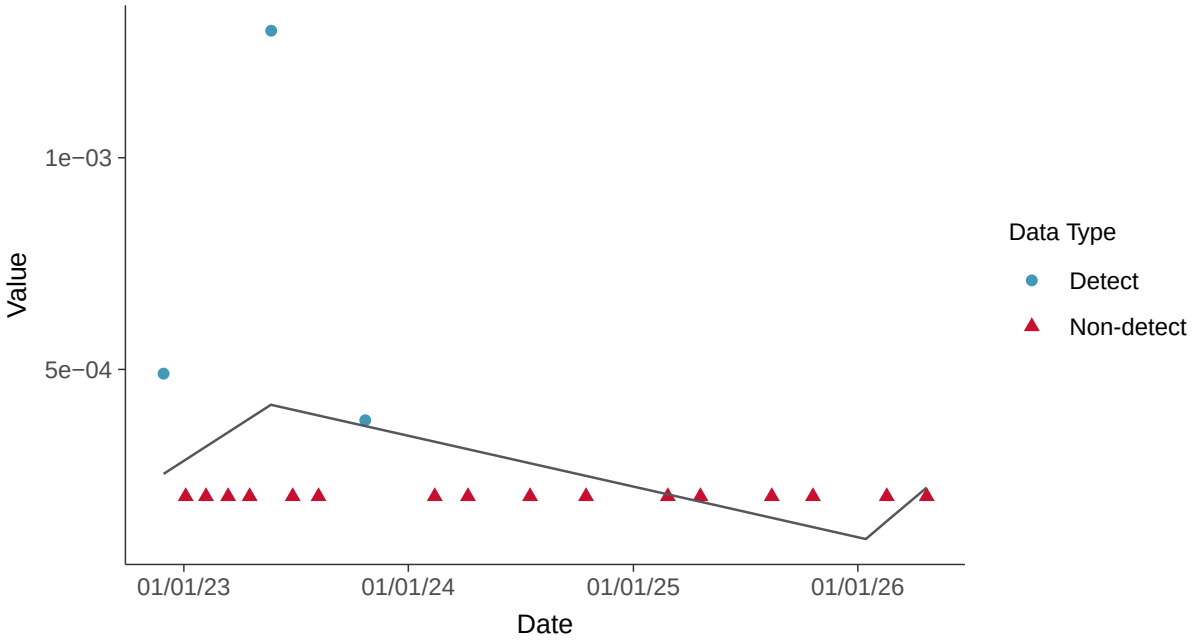
Trend Regression: Piecewise Linear-Linear

Copper, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-10 (mg/L)

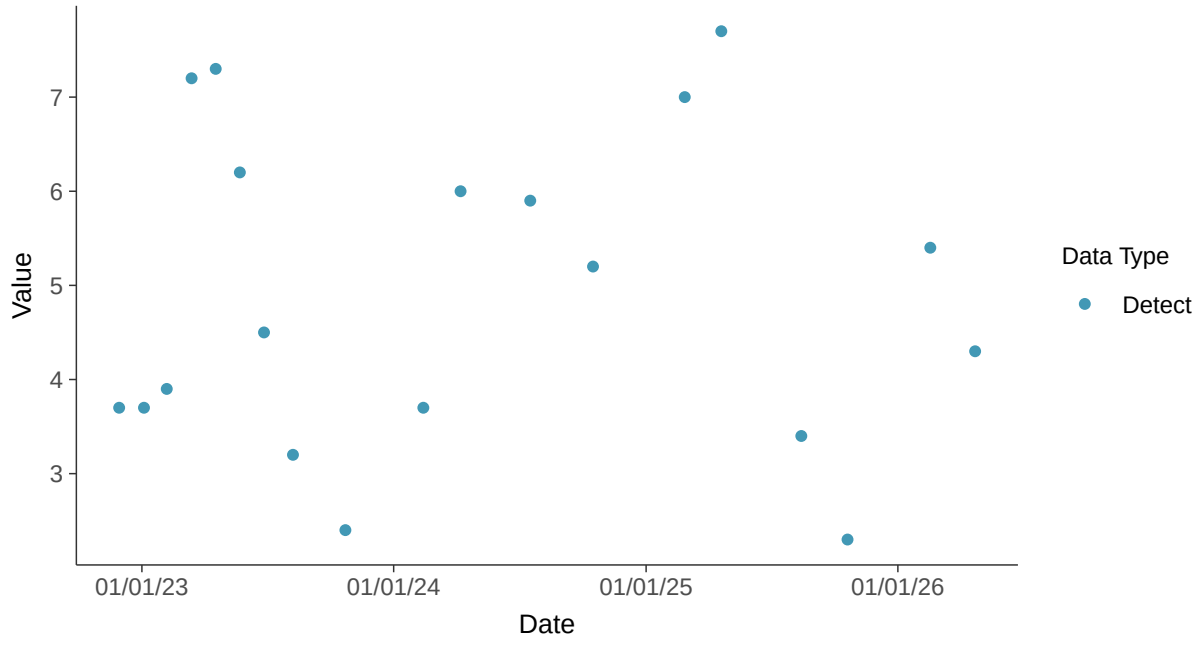


Part 115: Iron, MW-10

ID: 20_3_5_114

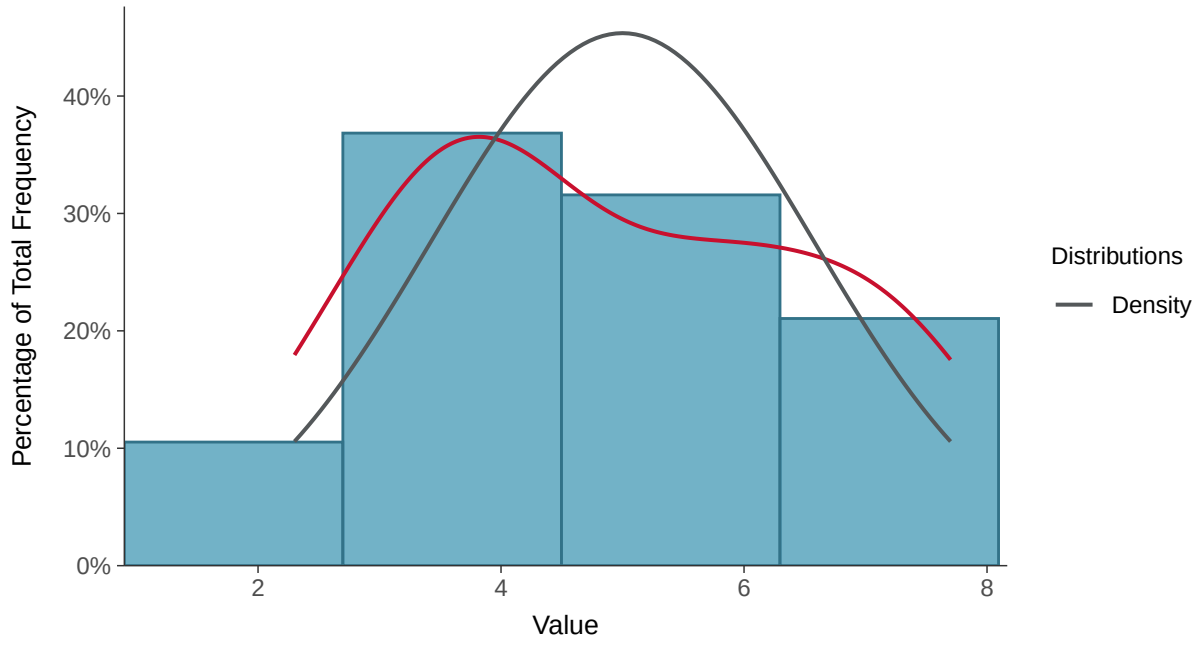
Scatter Plot

Iron, MW-10 (mg/L)



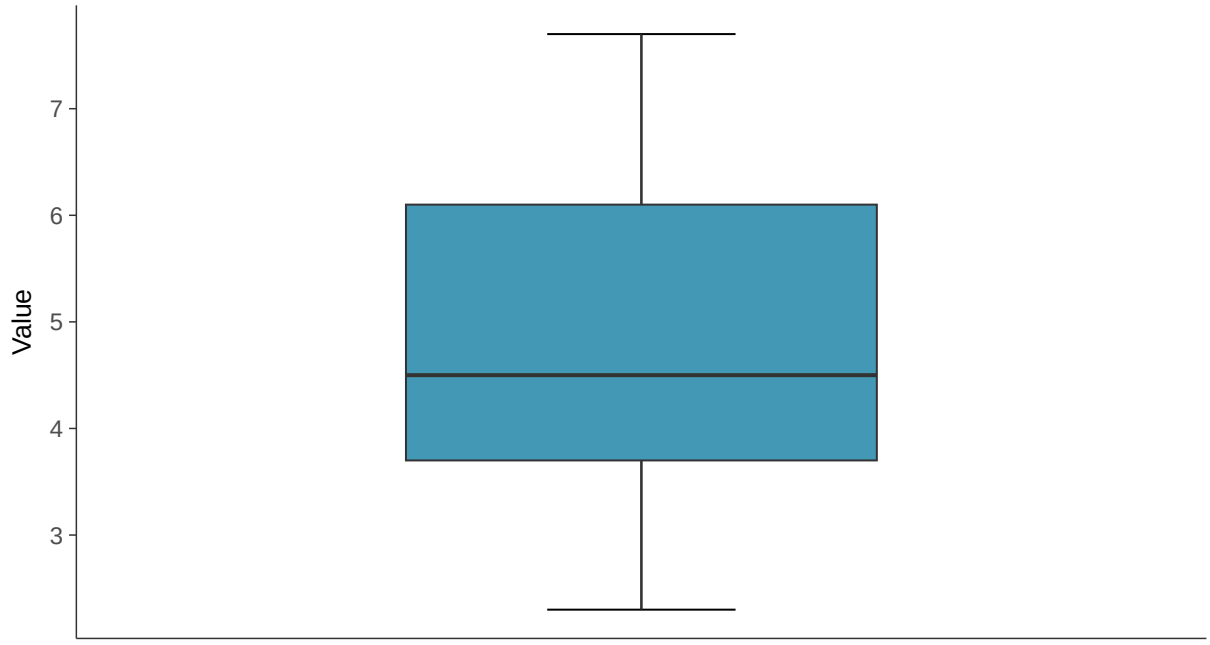
Histogram

Iron, MW-10 (mg/L)



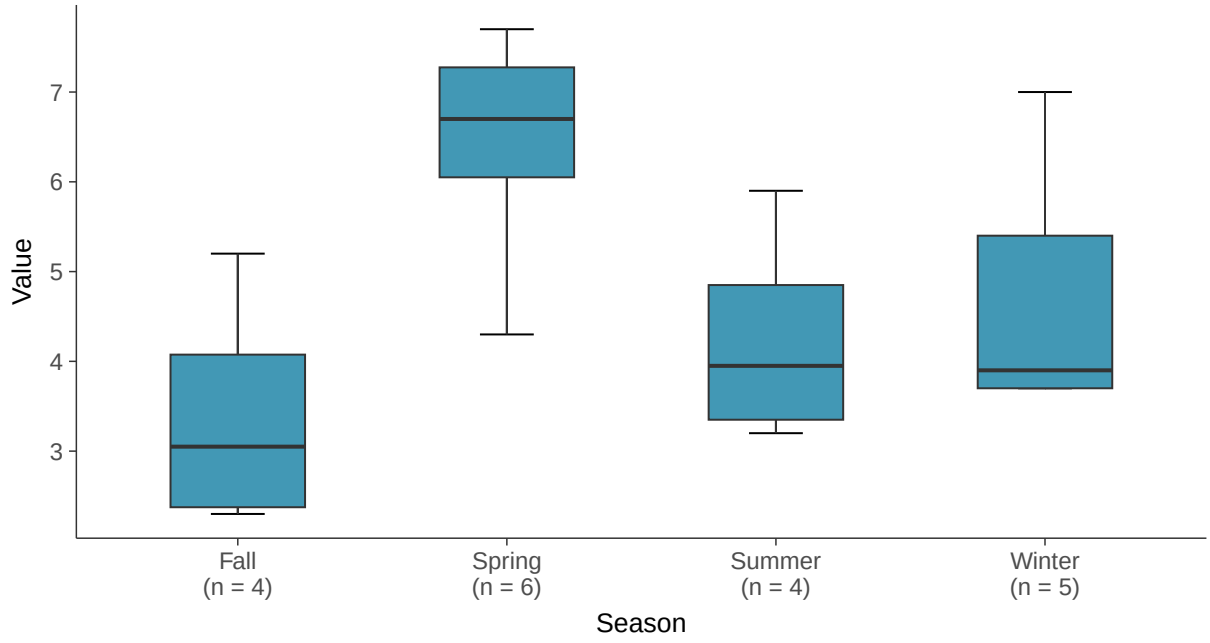
Boxplot

Iron, MW-10 (mg/L)



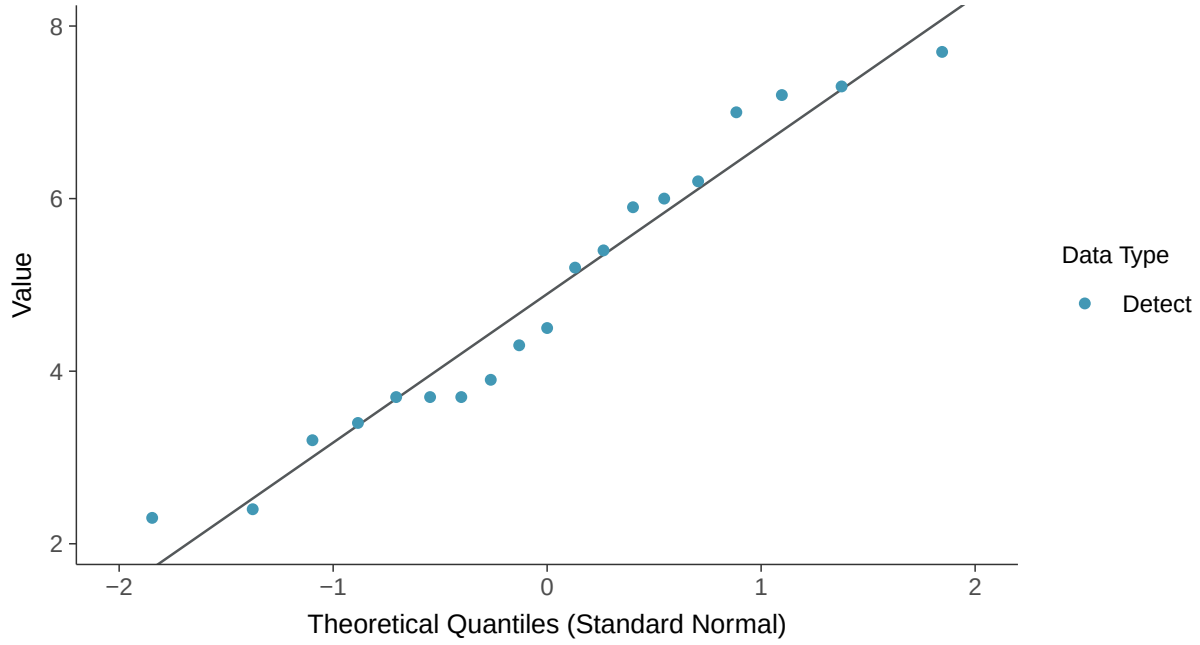
Boxplot by Season

Iron, MW-10 (mg/L)



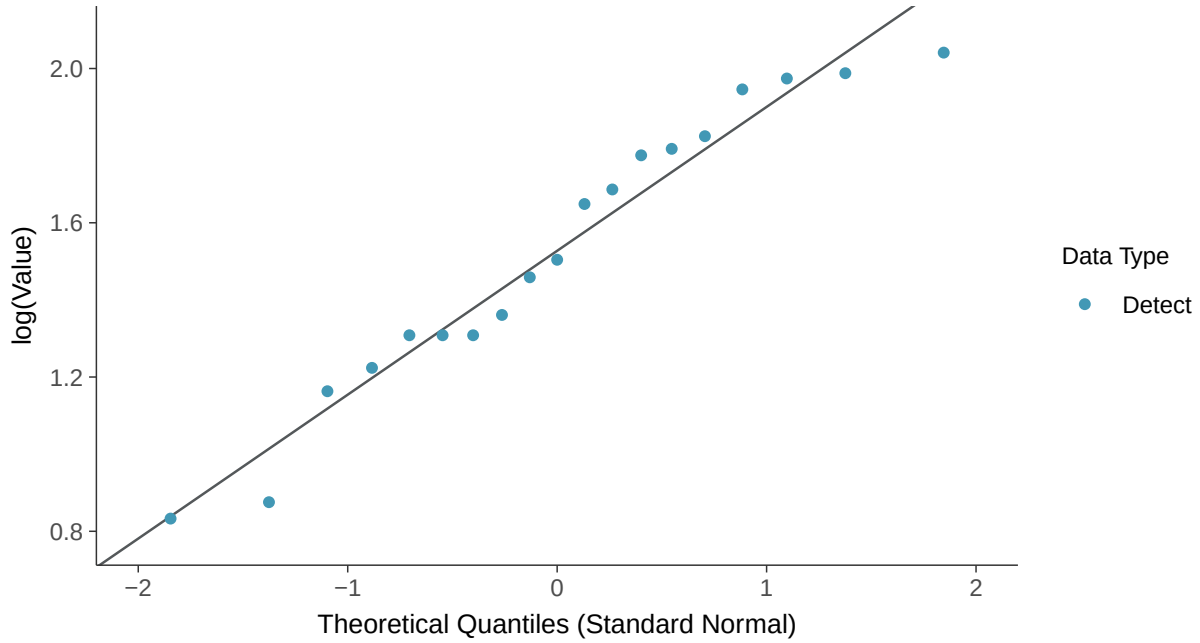
Normal Q-Q plot

Iron, MW-10 (mg/L)



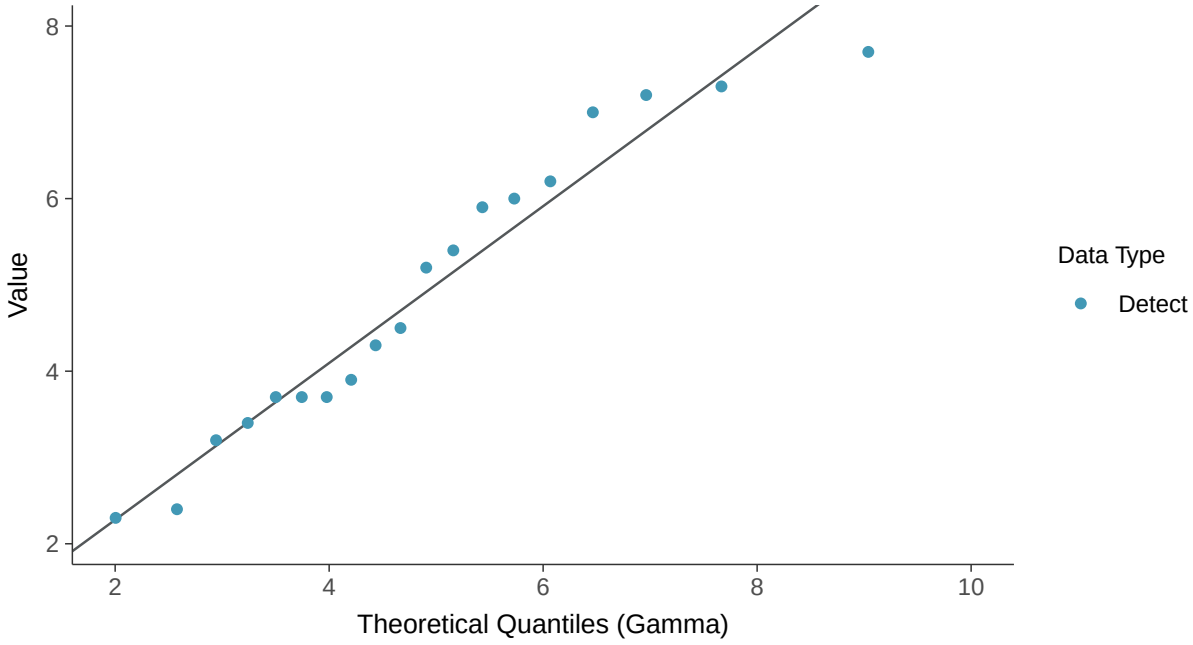
Lognormal Q-Q plot

Iron, MW-10 (mg/L)



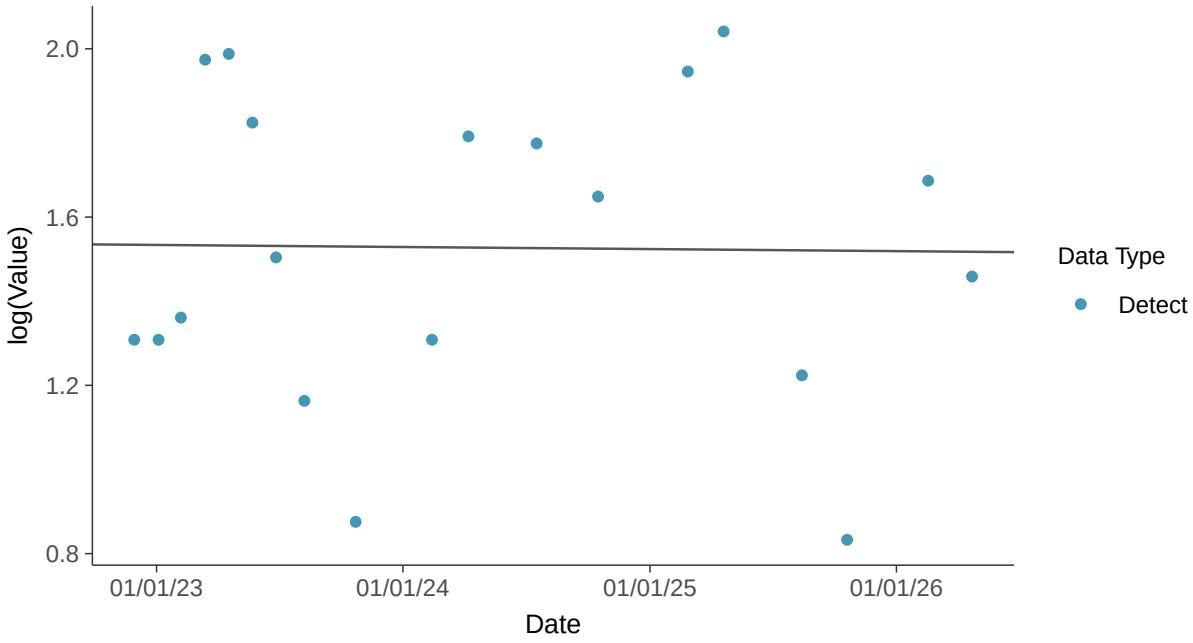
Gamma Q-Q plot

Iron, MW-10 (mg/L)



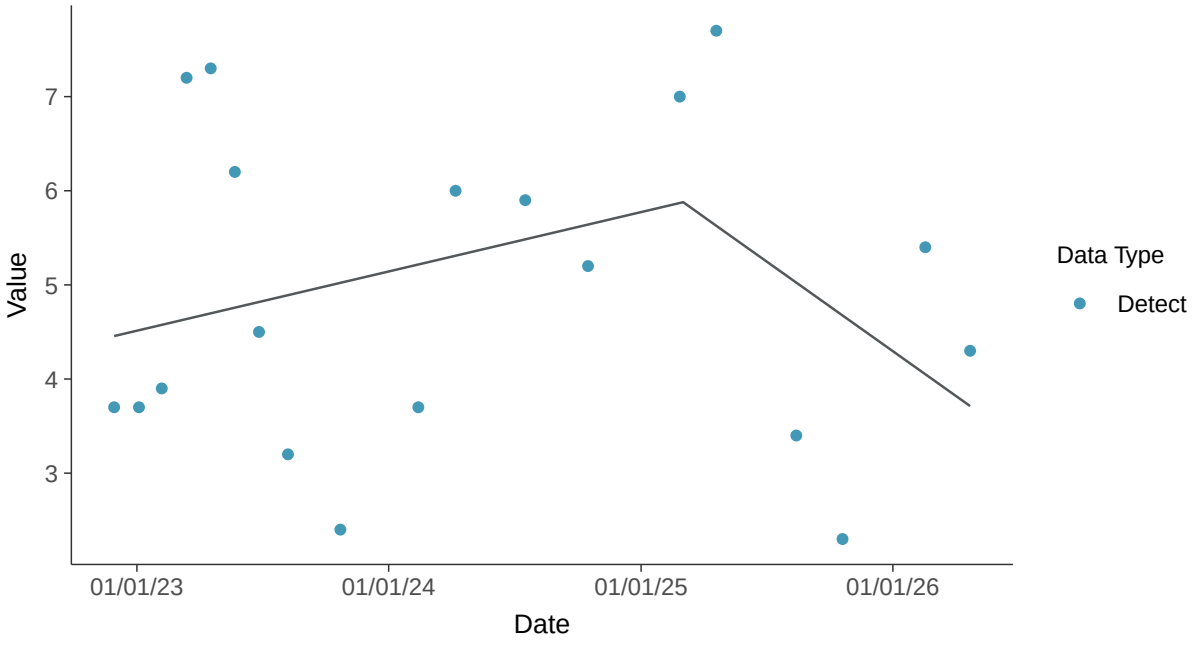
Trend Regression: Lognormal MLE

Iron, MW-10 (mg/L)



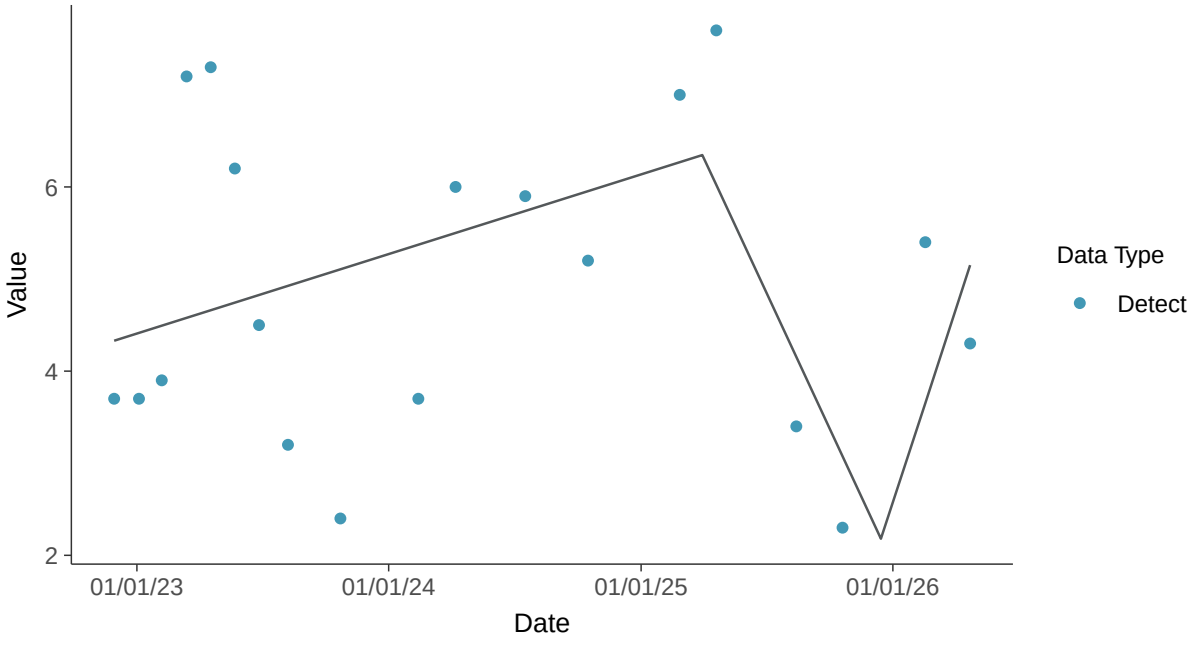
Trend Regression: Piecewise Linear-Linear

Iron, MW-10 (mg/L)



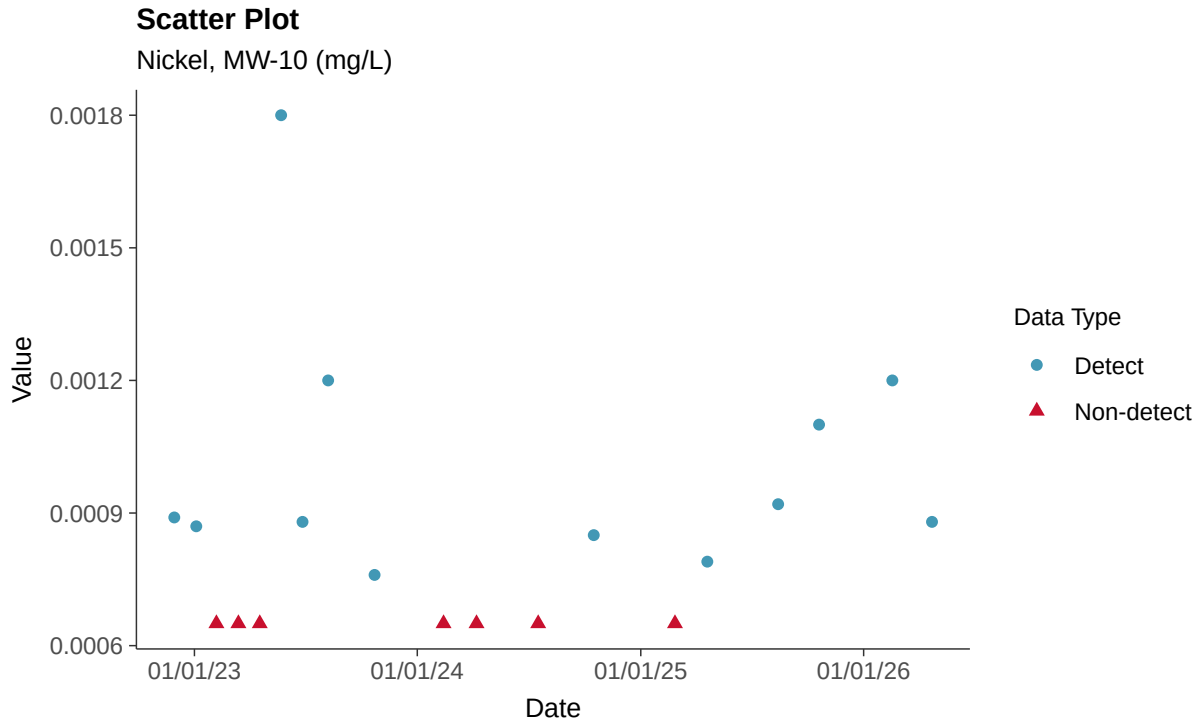
Trend Regression: Piecewise Linear-Linear-Linear

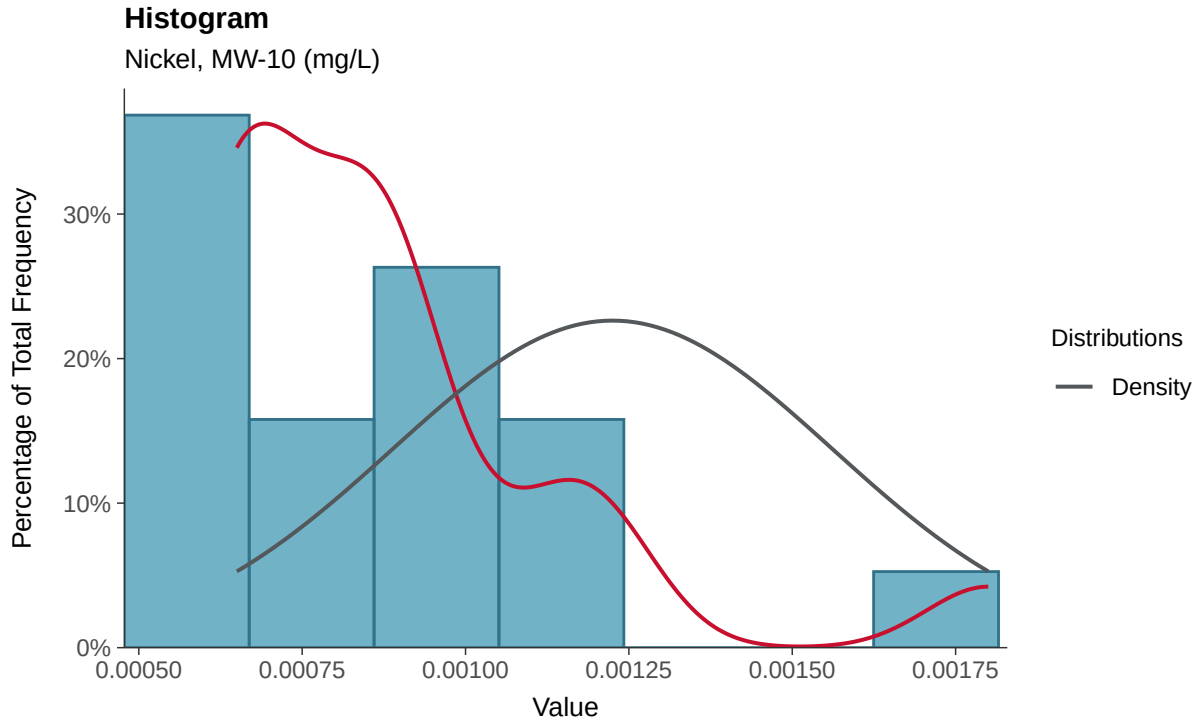
Iron, MW-10 (mg/L)



Part 115: Nickel, MW-10

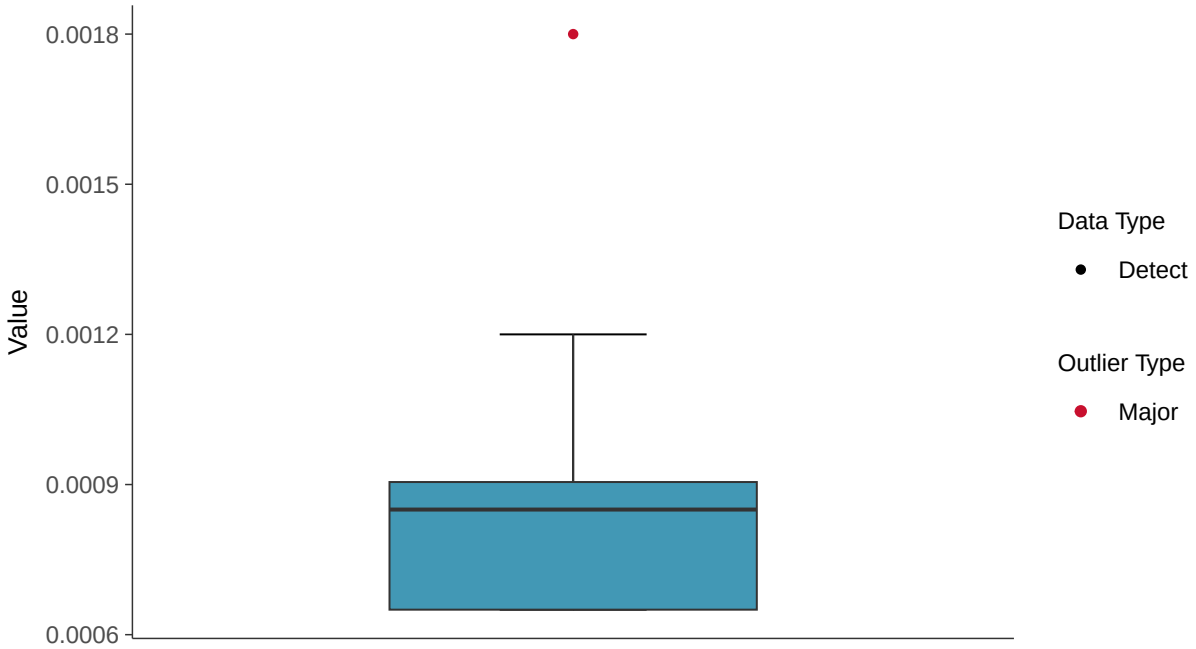
ID: 20_3_5_119





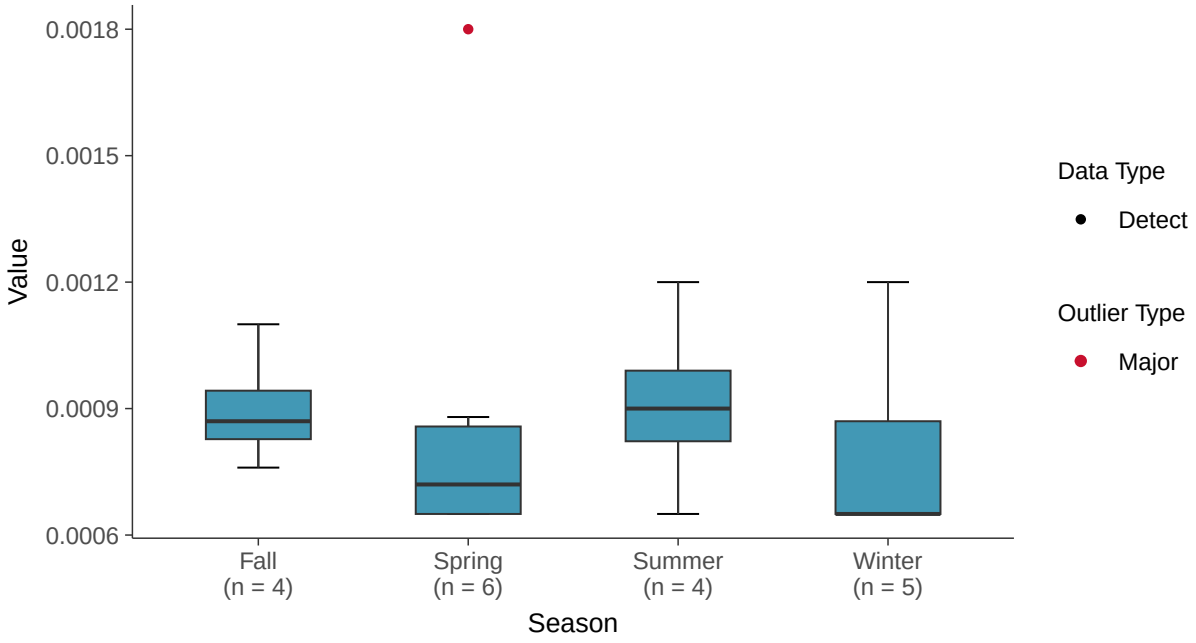
Boxplot

Nickel, MW-10 (mg/L)



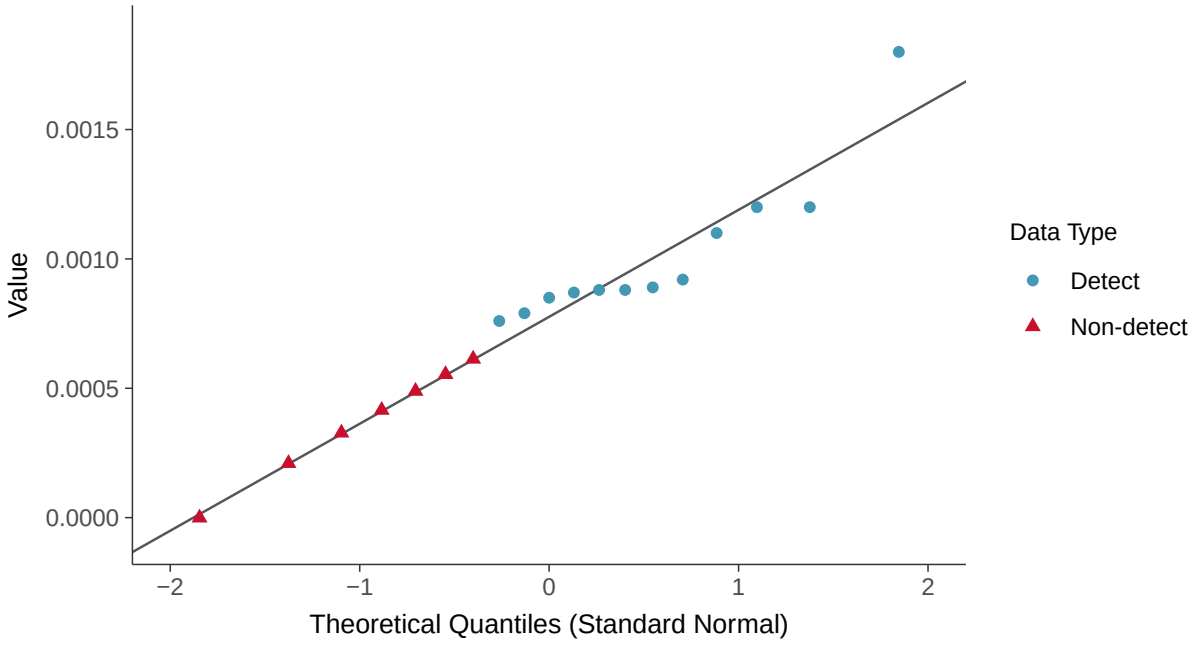
Boxplot by Season

Nickel, MW-10 (mg/L)



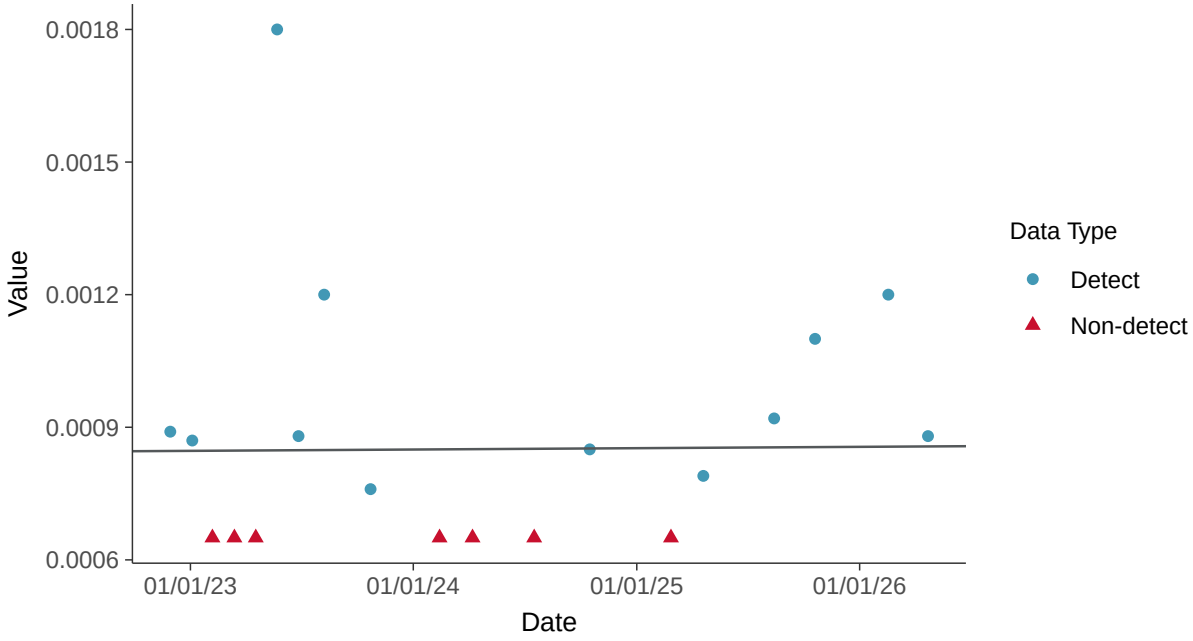
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-10 (mg/L)



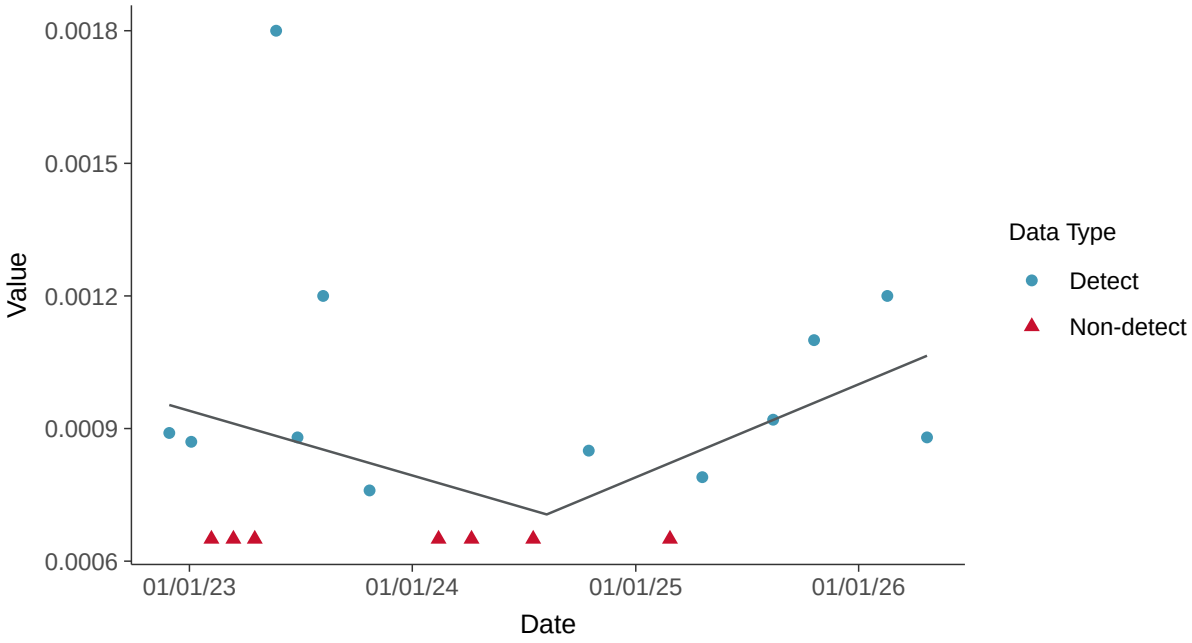
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-10 (mg/L)



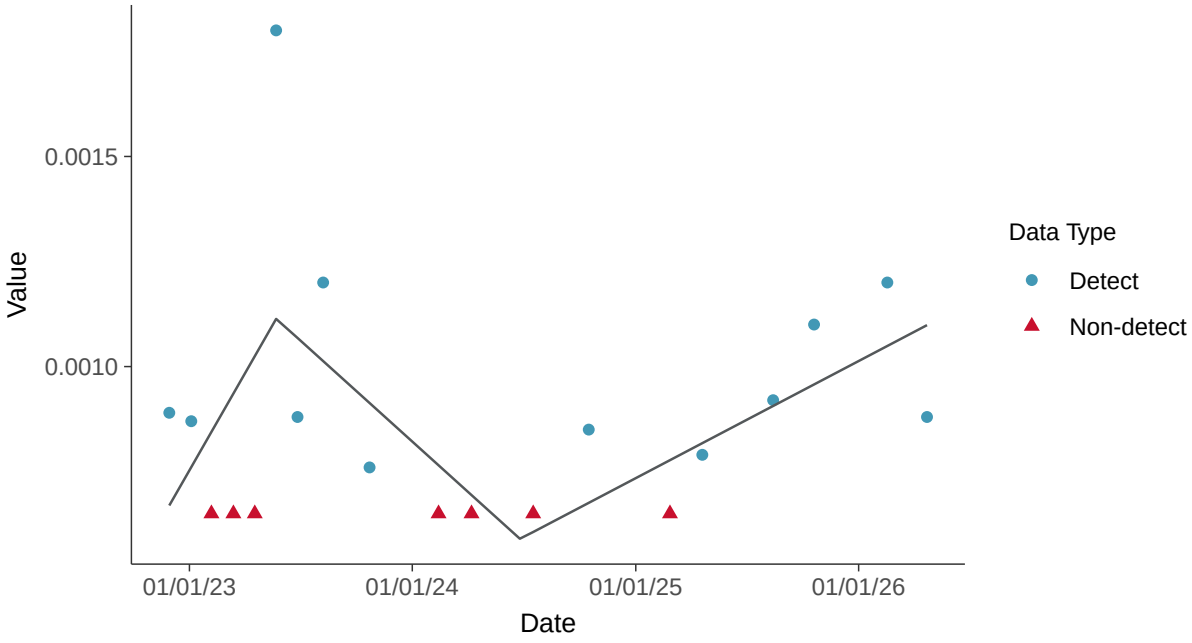
Trend Regression: Piecewise Linear-Linear

Nickel, MW-10 (mg/L)



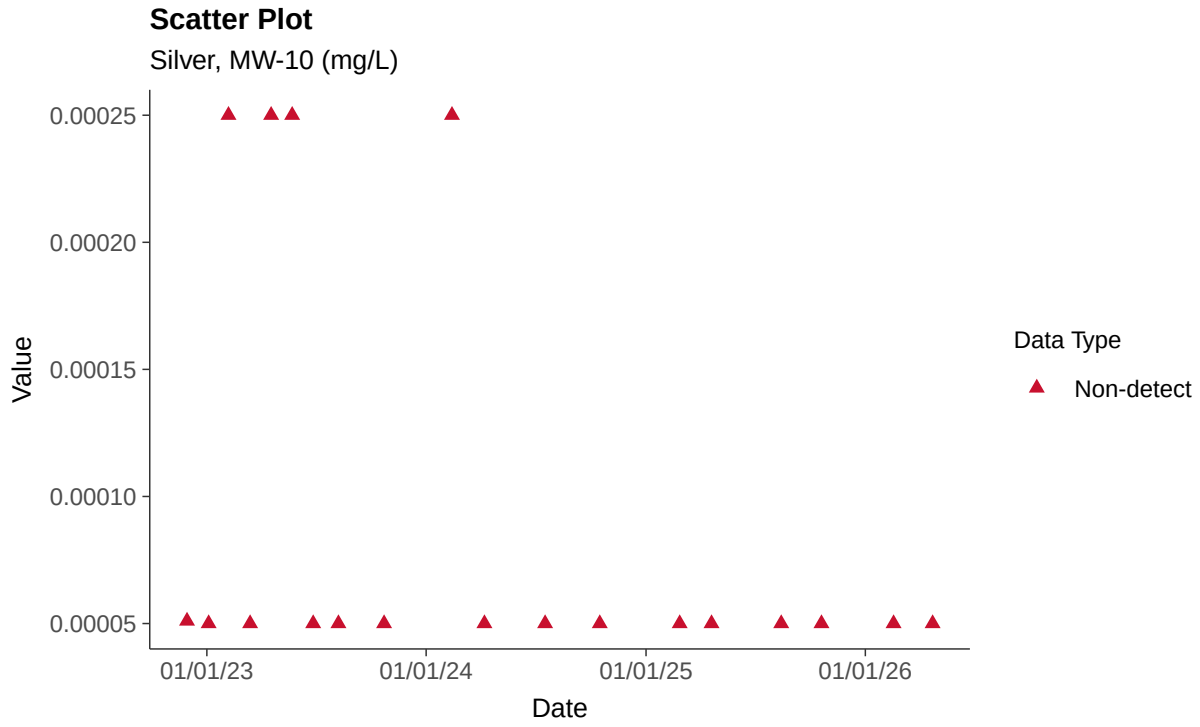
Trend Regression: Piecewise Linear-Linear-Linear

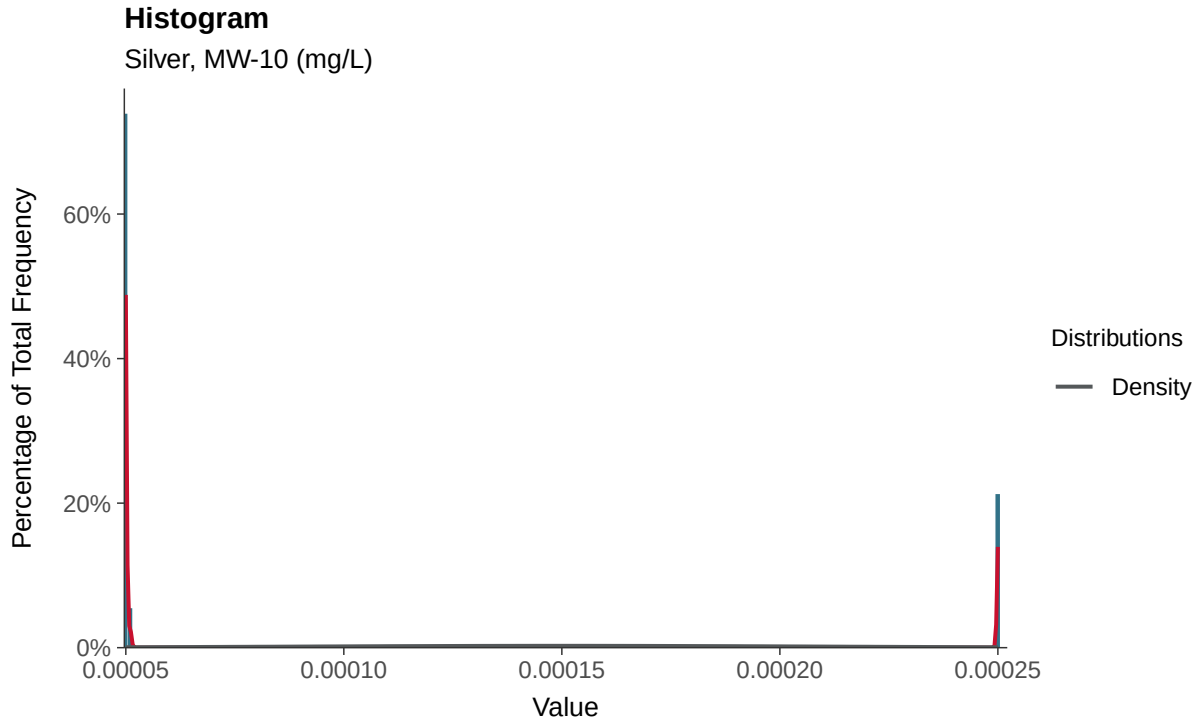
Nickel, MW-10 (mg/L)



Part 115: Silver, MW-10

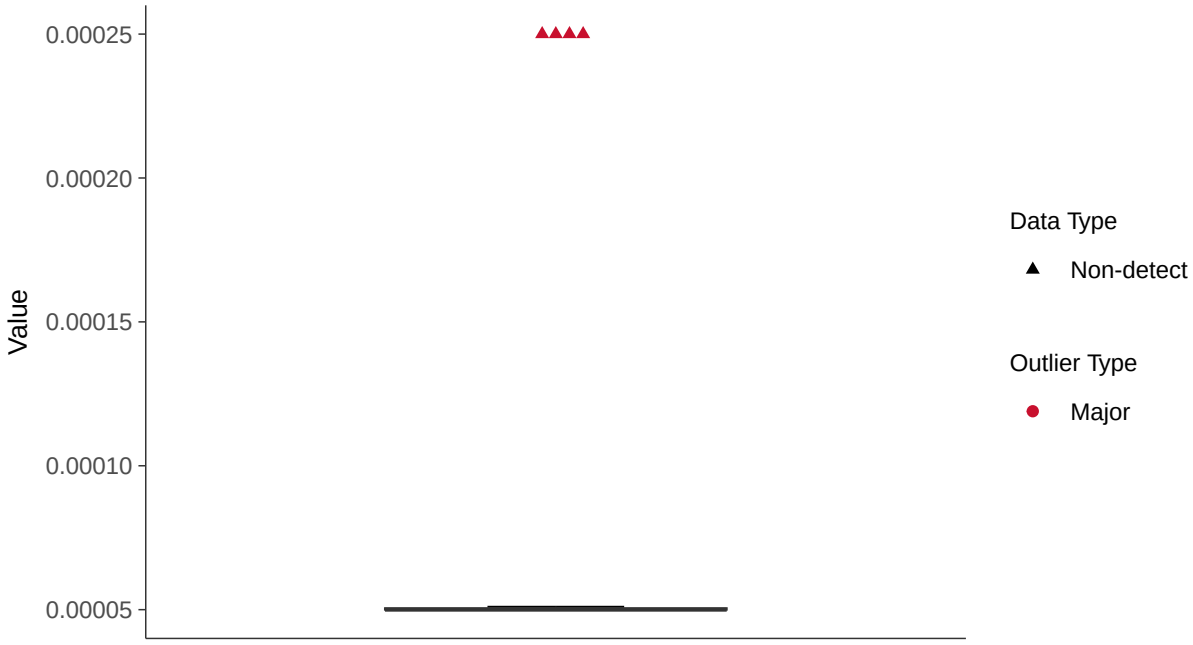
ID: 20_3_5_123





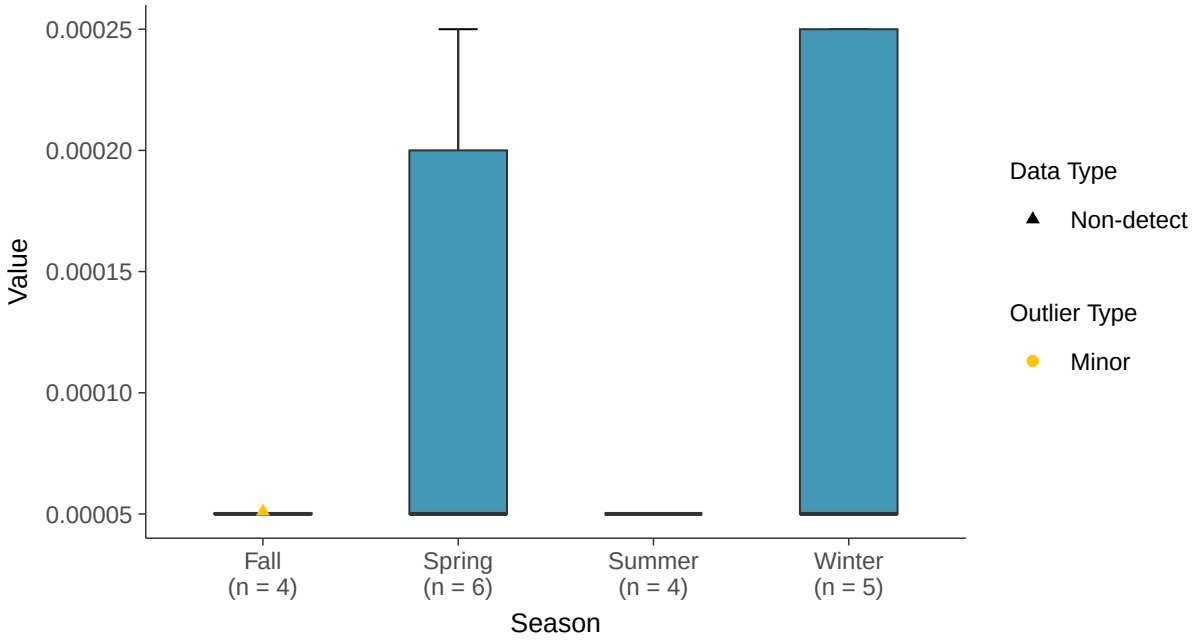
Boxplot

Silver, MW-10 (mg/L)



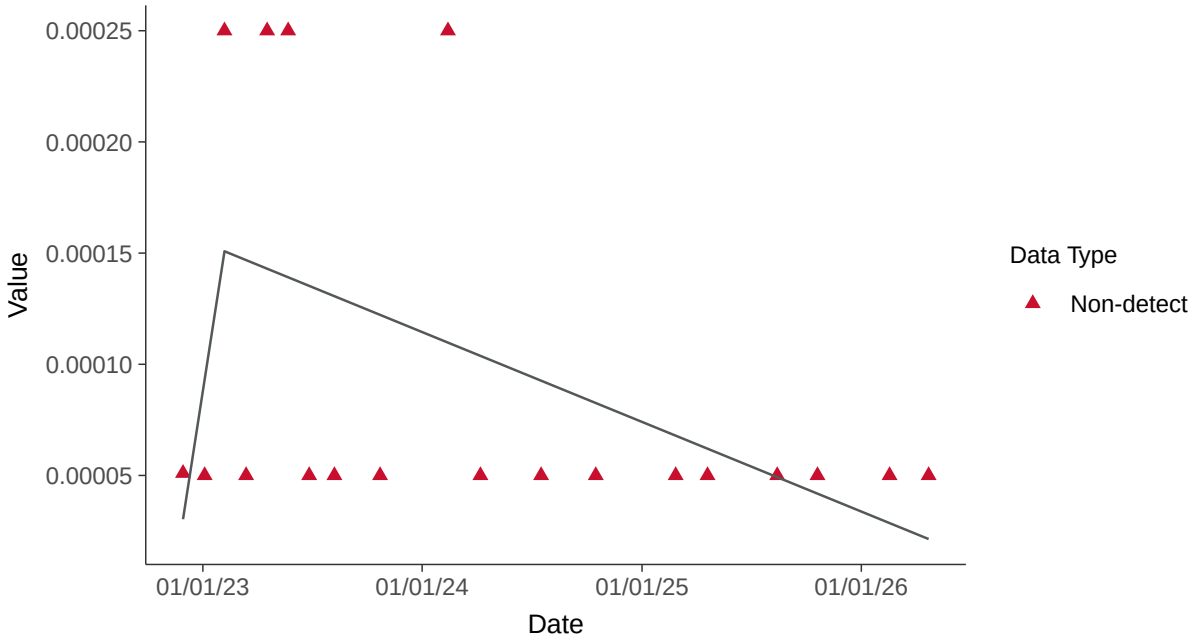
Boxplot by Season

Silver, MW-10 (mg/L)



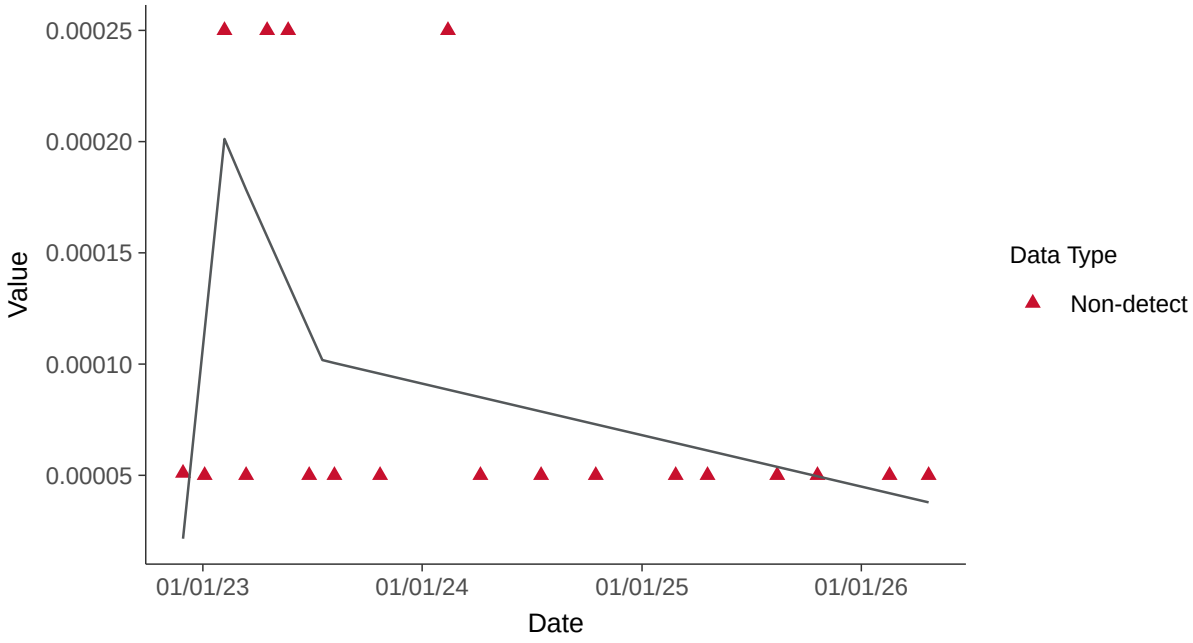
Trend Regression: Piecewise Linear-Linear

Silver, MW-10 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-10 (mg/L)

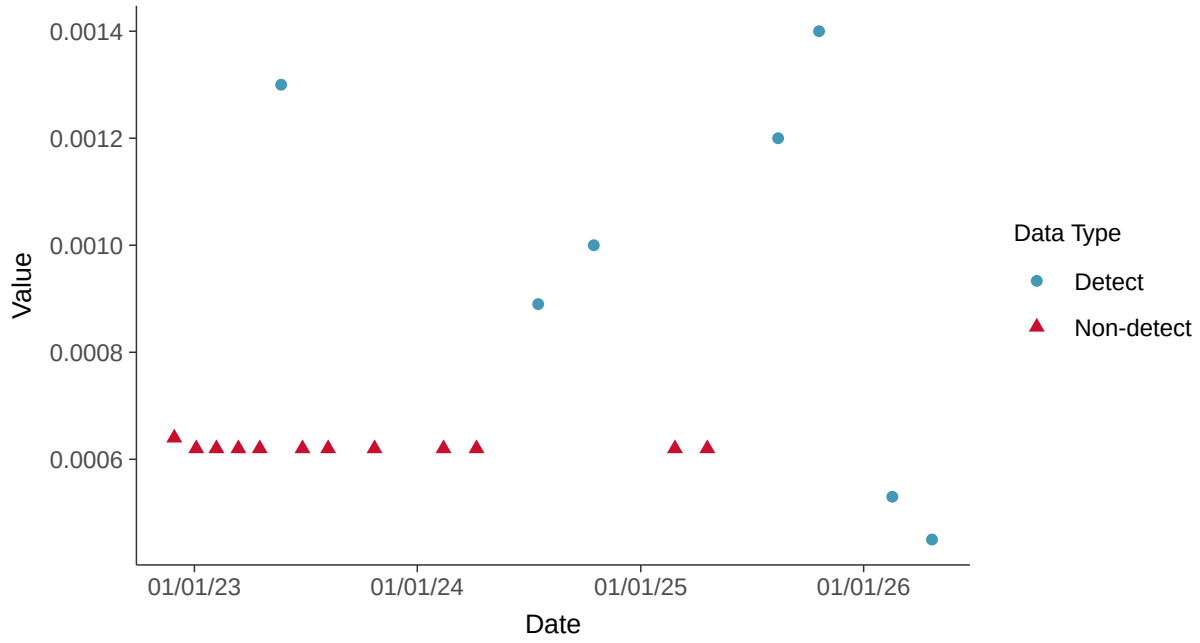


Part 115: Vanadium, MW-10

ID: 20_3_5_128

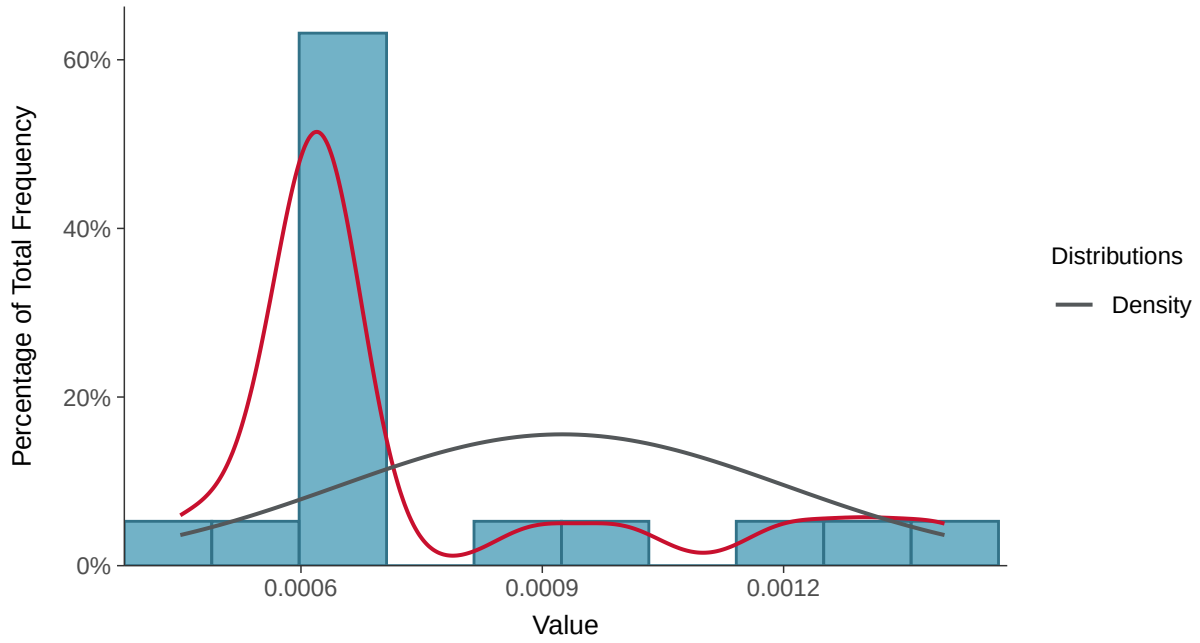
Scatter Plot

Vanadium, MW-10 (mg/L)



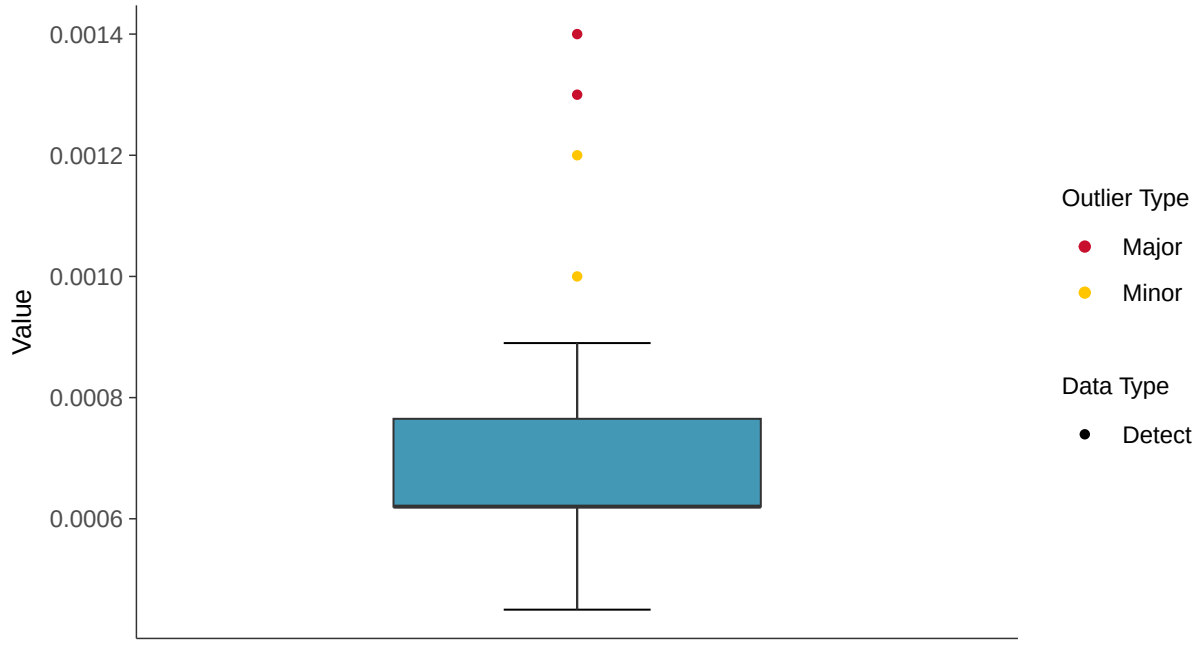
Histogram

Vanadium, MW-10 (mg/L)



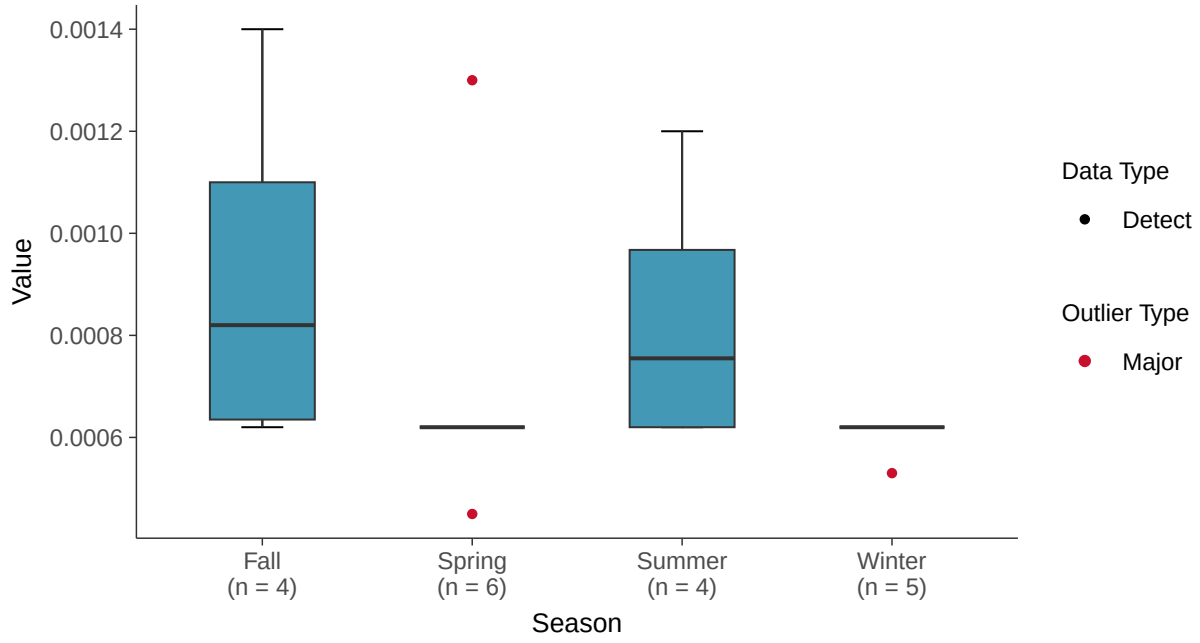
Boxplot

Vanadium, MW-10 (mg/L)



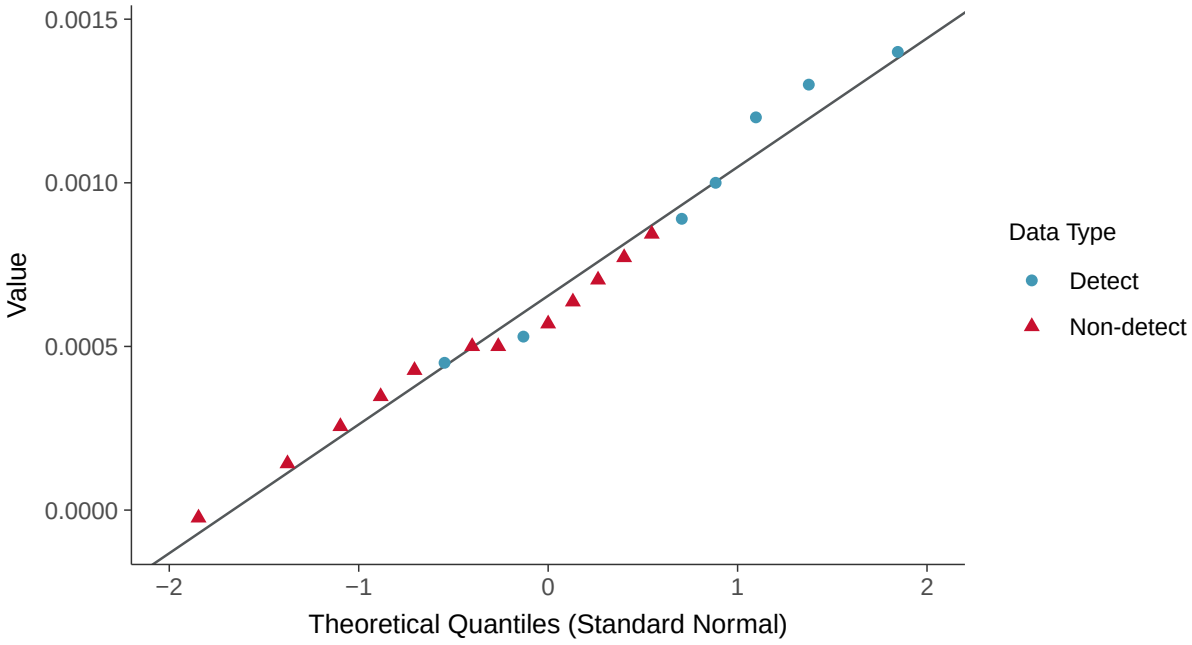
Boxplot by Season

Vanadium, MW-10 (mg/L)



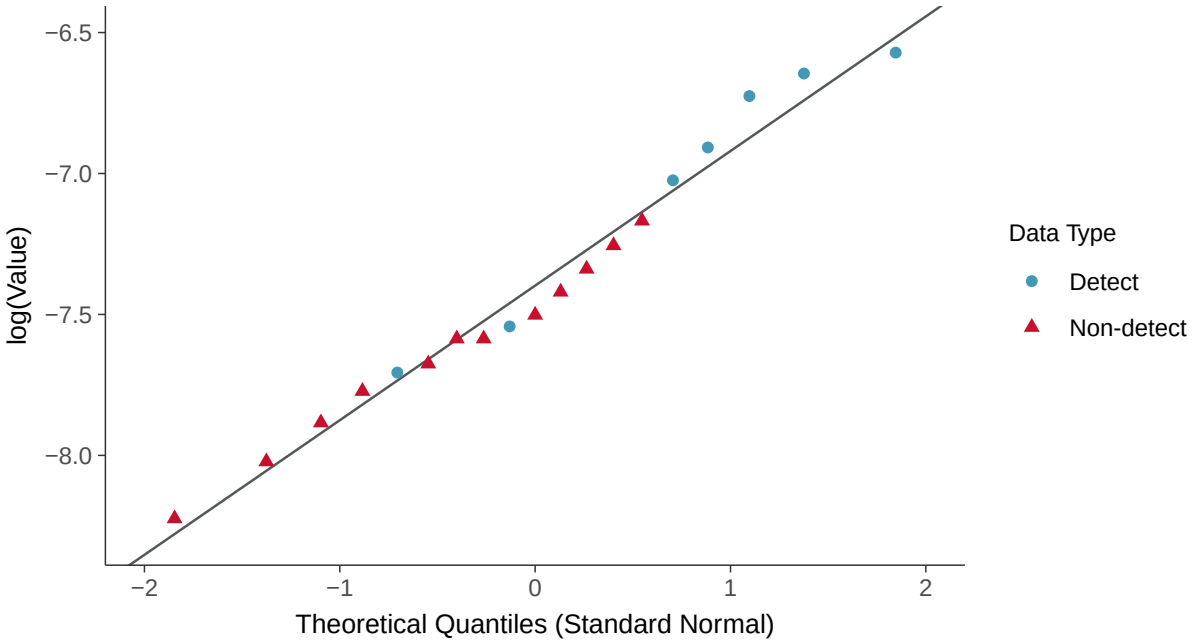
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-10 (mg/L)



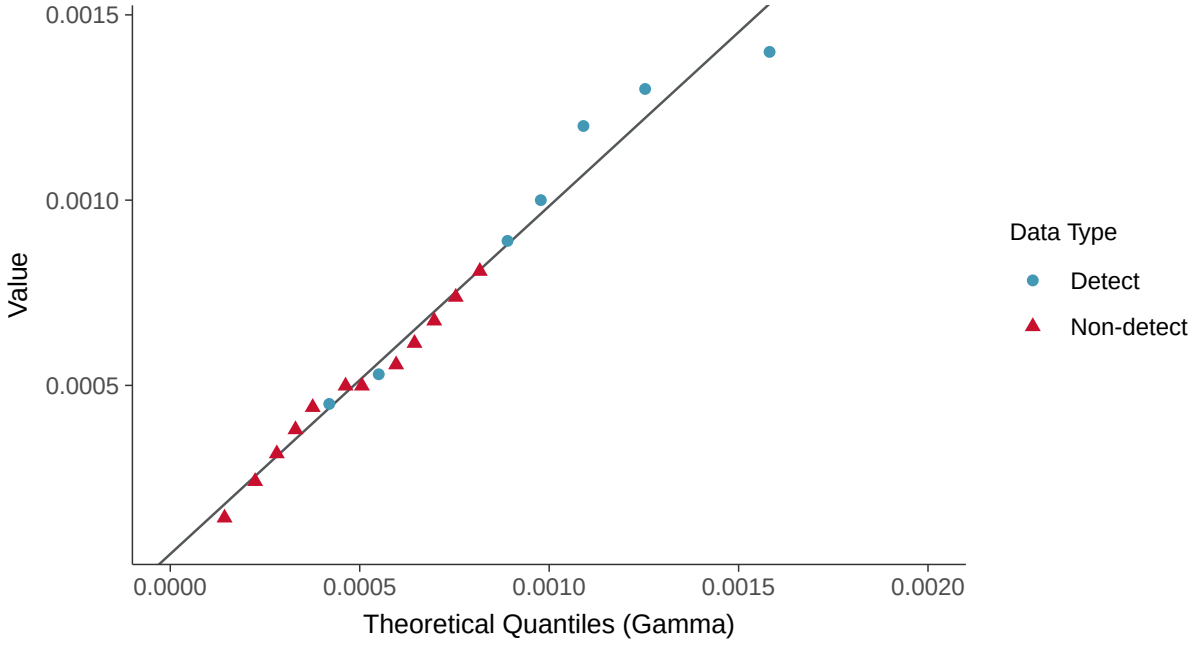
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-10 (mg/L)



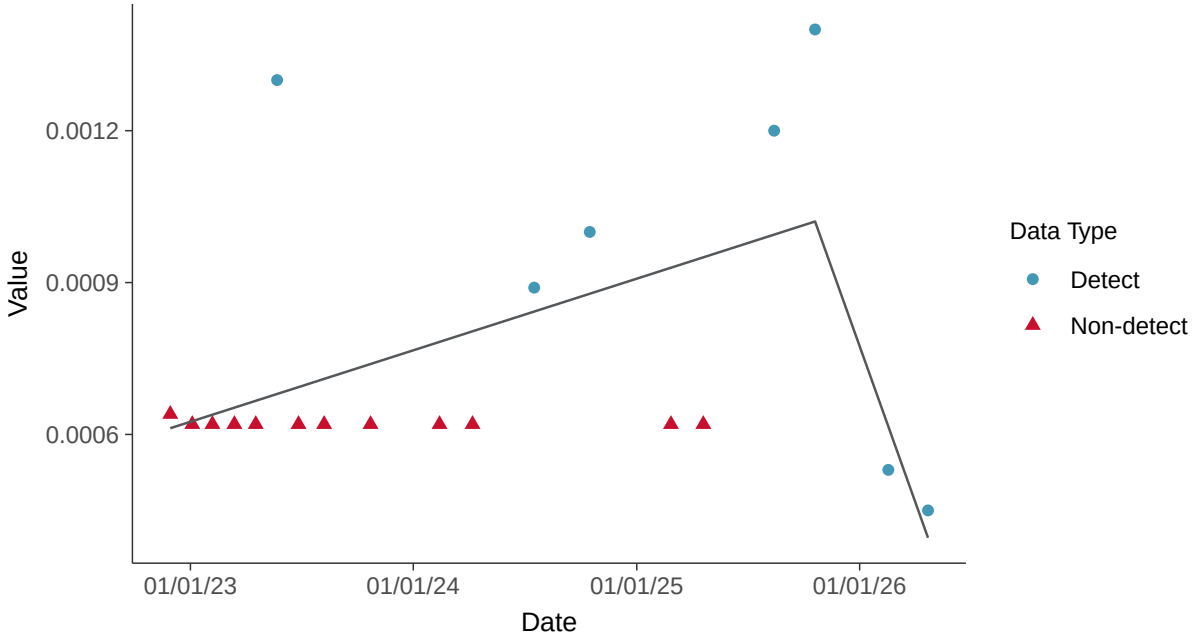
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-10 (mg/L)



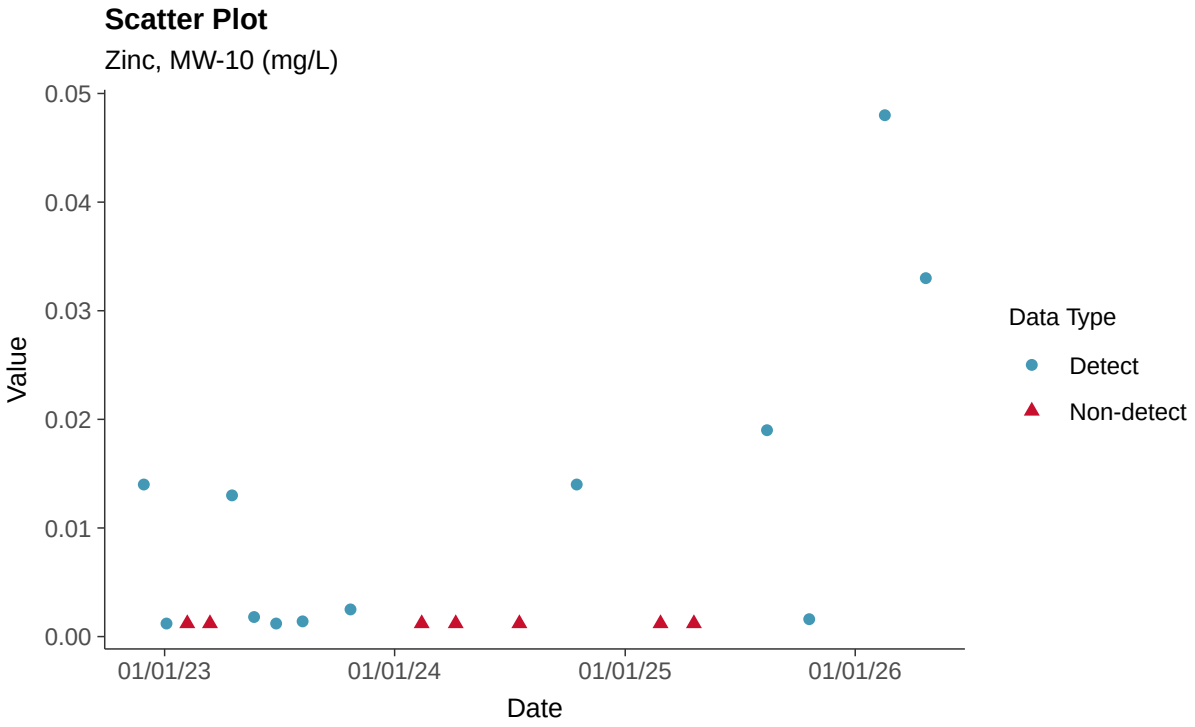
Trend Regression: Piecewise Linear-Linear

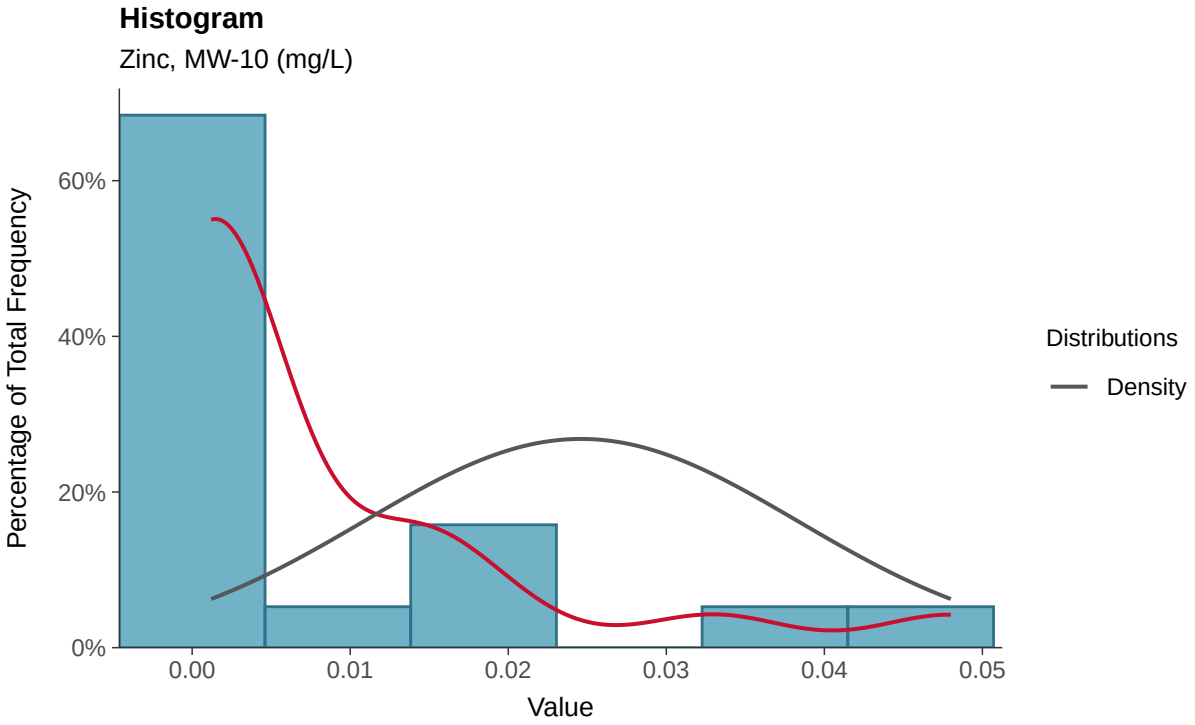
Vanadium, MW-10 (mg/L)



Part 115: Zinc, MW-10

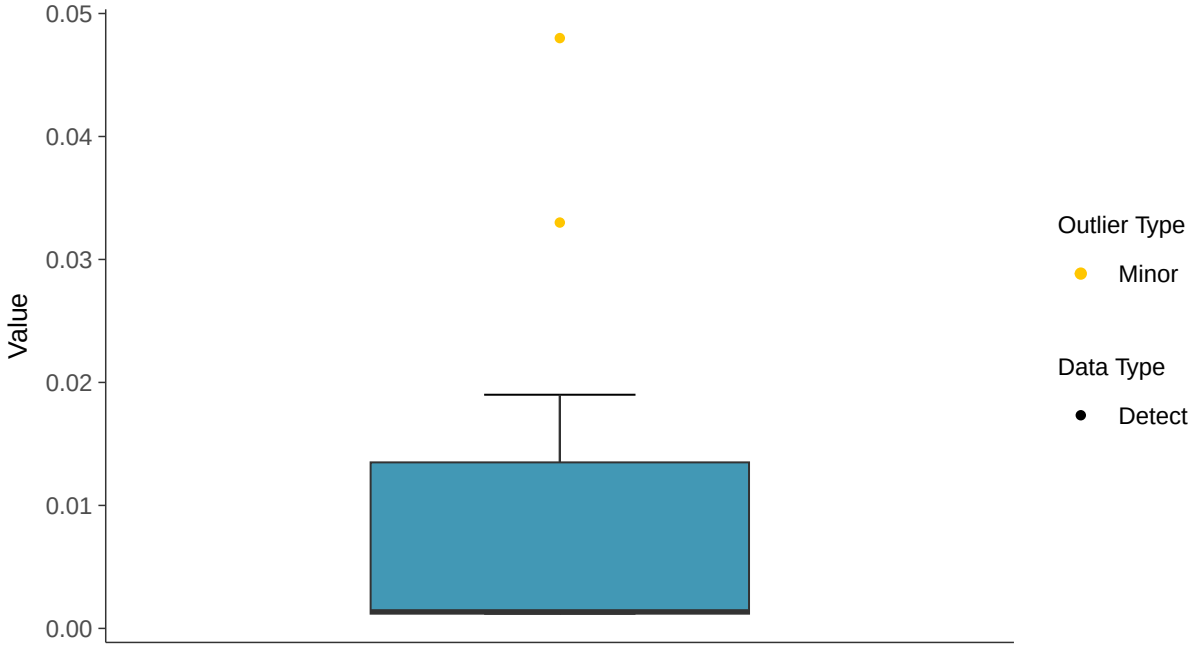
ID: 20_3_5_129





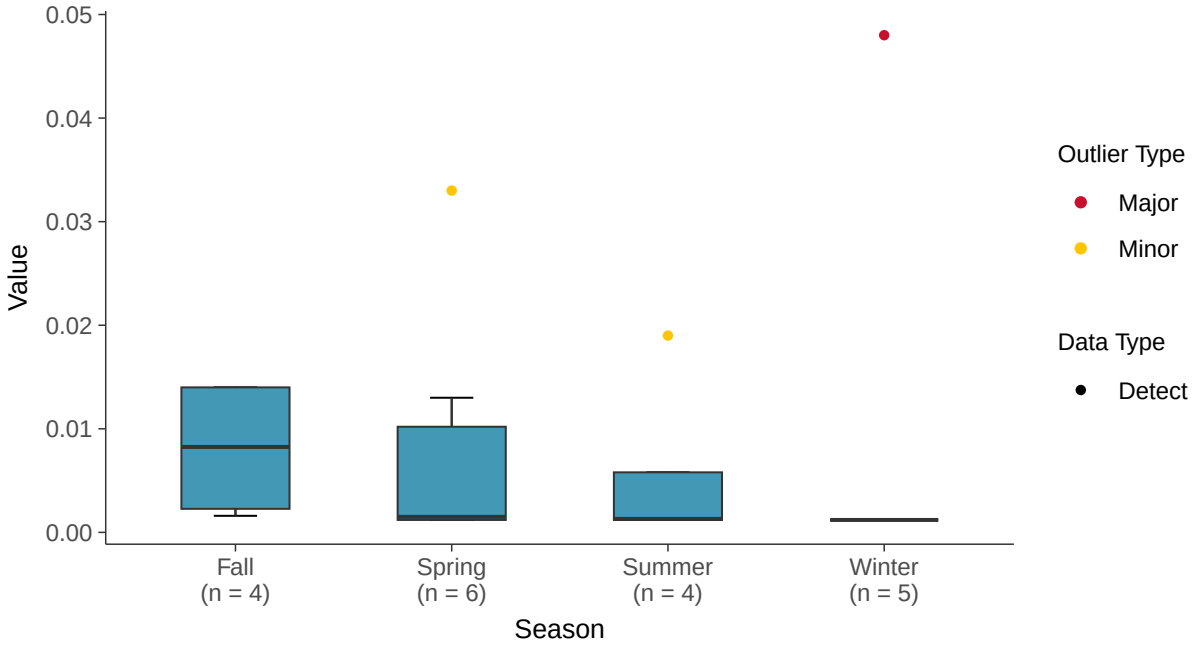
Boxplot

Zinc, MW-10 (mg/L)



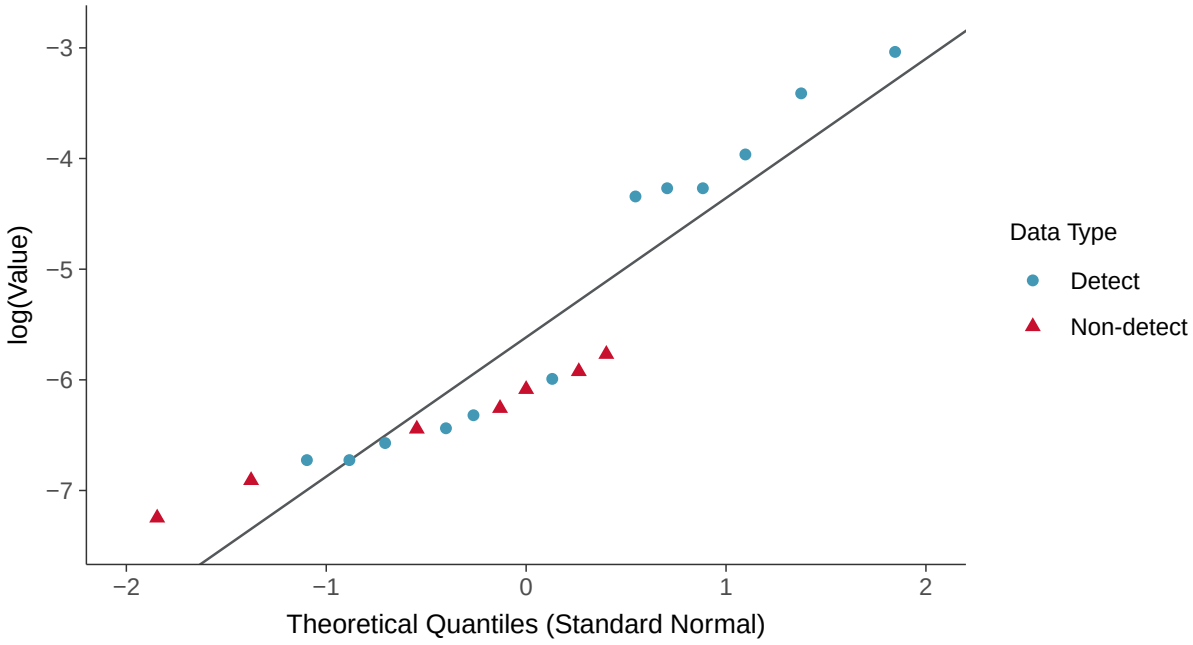
Boxplot by Season

Zinc, MW-10 (mg/L)



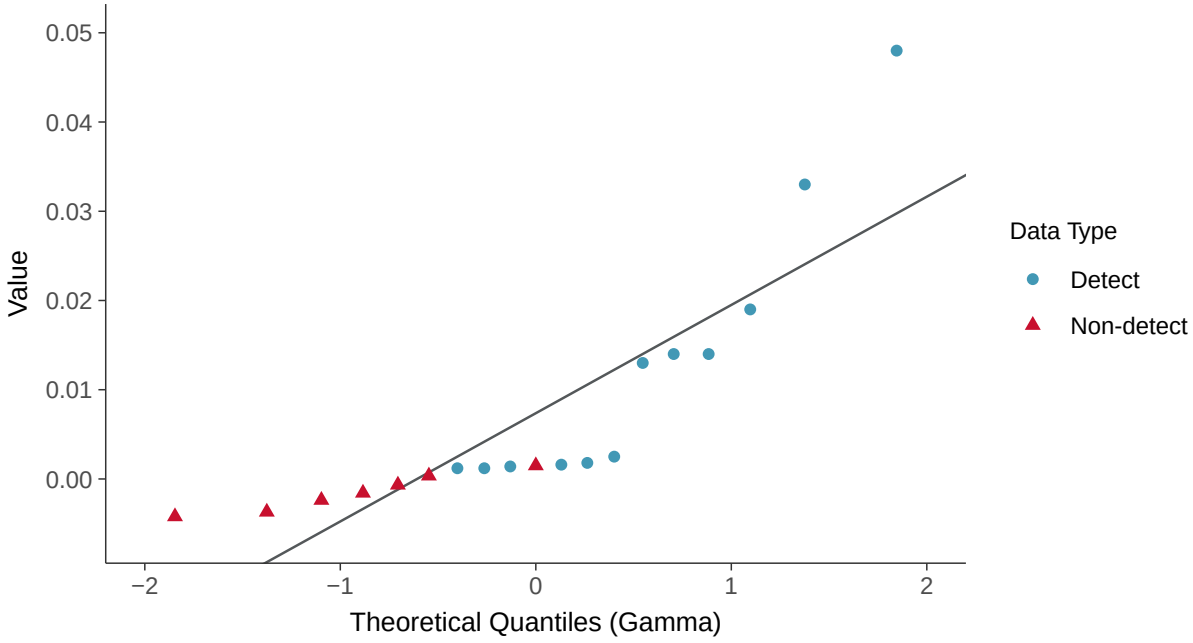
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-10 (mg/L)



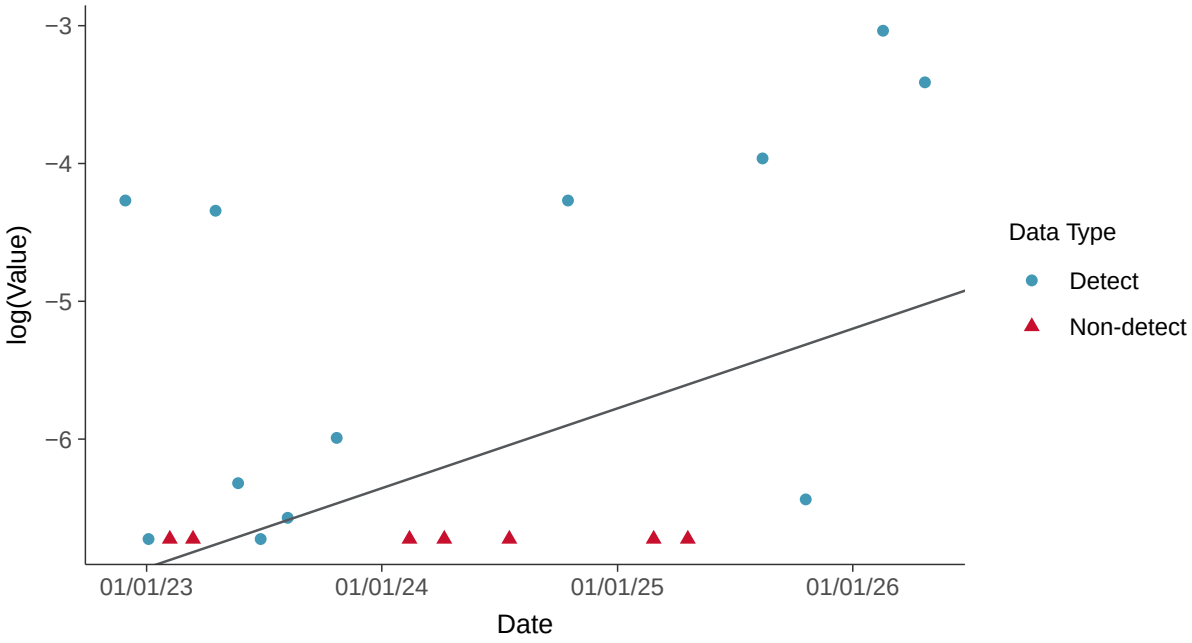
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-10 (mg/L)



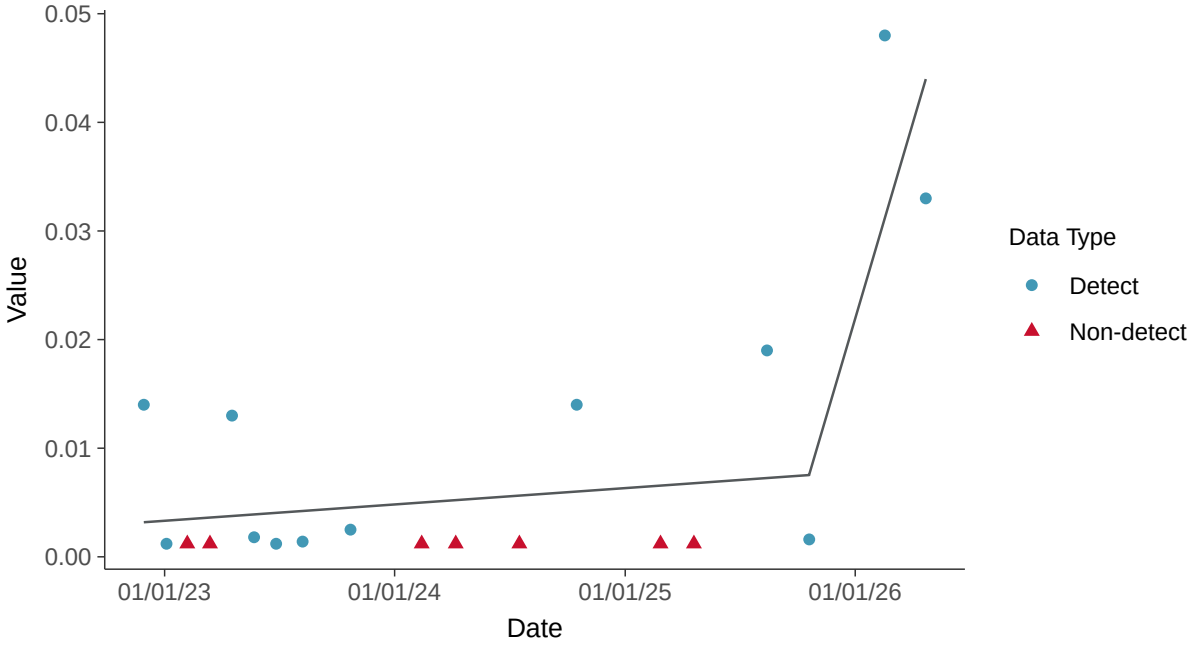
Trend Regression: Lognormal MLE

Zinc, MW-10 (mg/L)



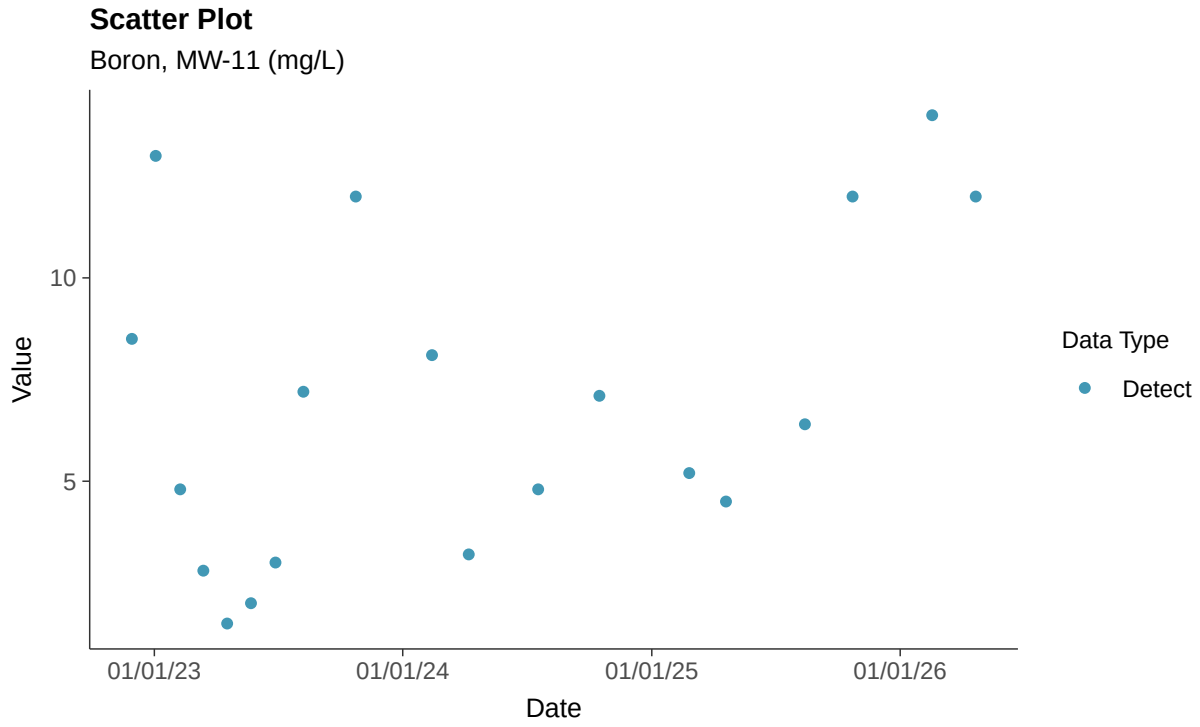
Trend Regression: Piecewise Linear-Linear

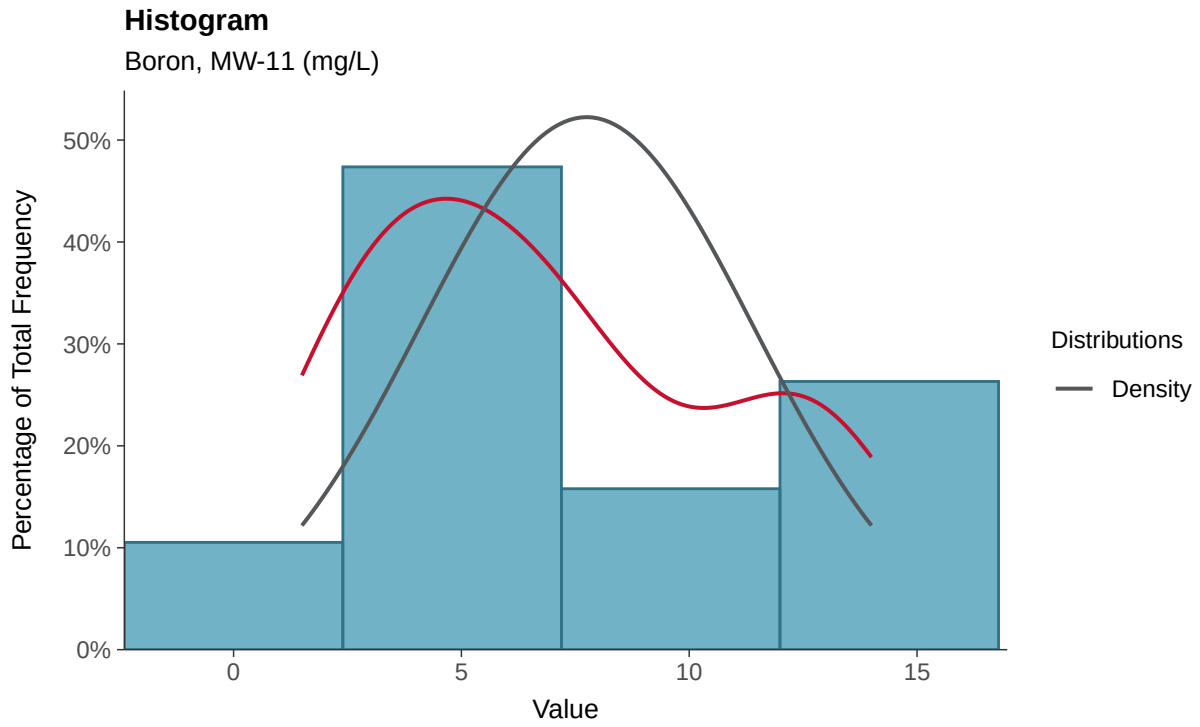
Zinc, MW-10 (mg/L)



Appendix III: Boron, MW-11

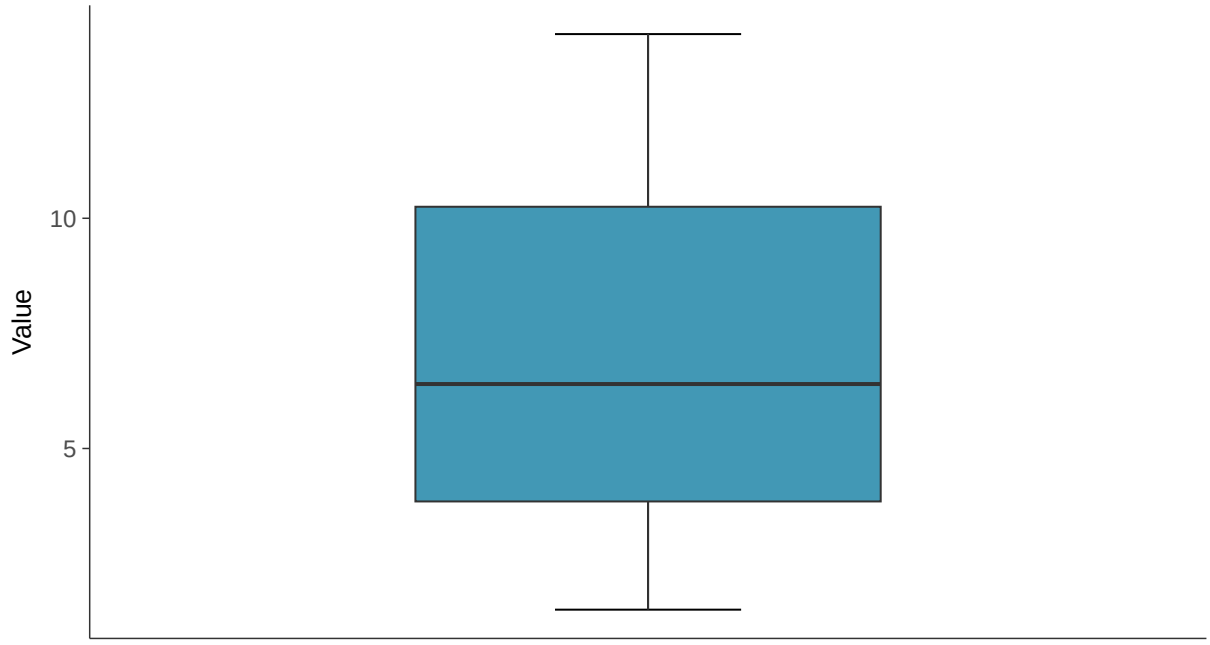
ID: 21_2_3_105





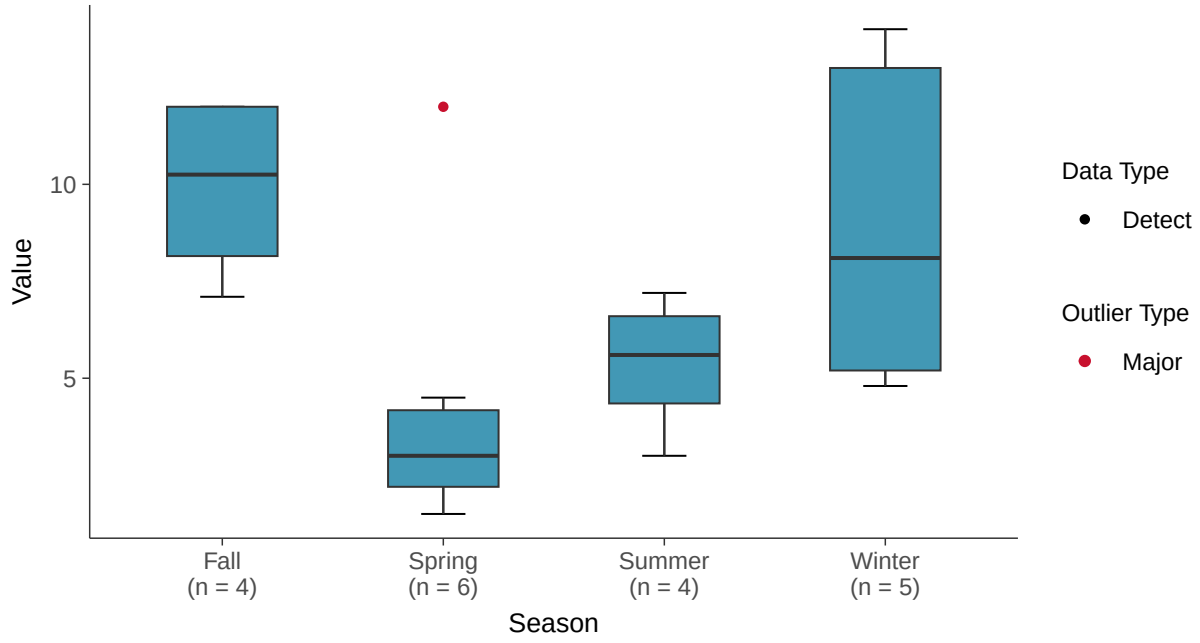
Boxplot

Boron, MW-11 (mg/L)



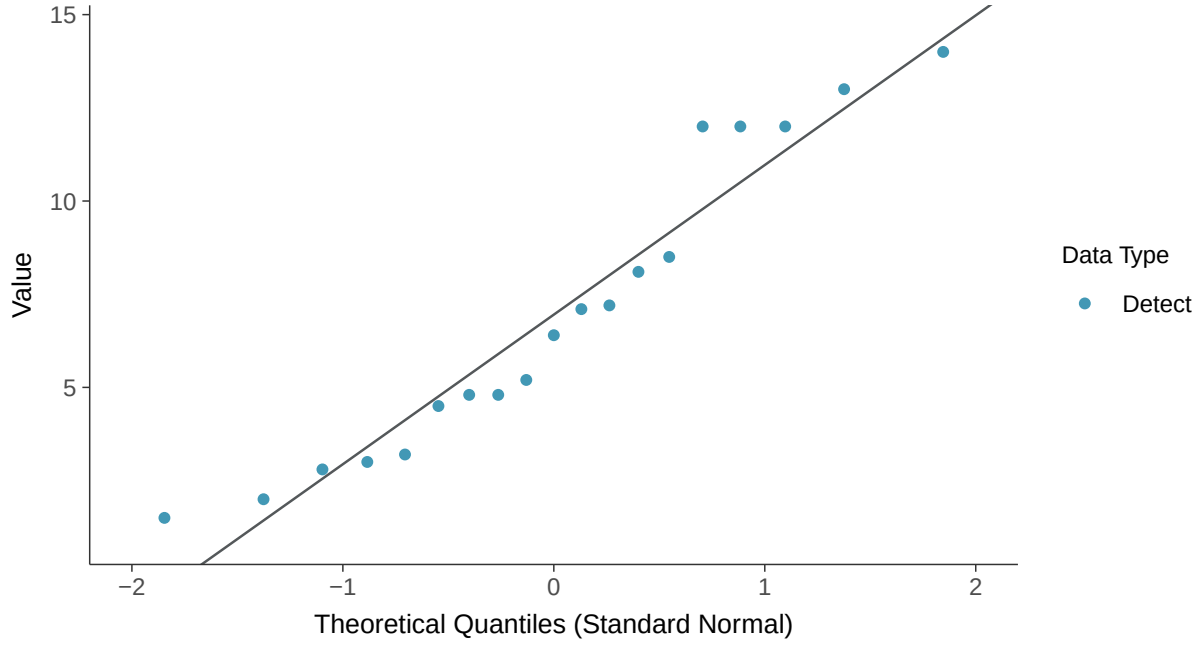
Boxplot by Season

Boron, MW-11 (mg/L)



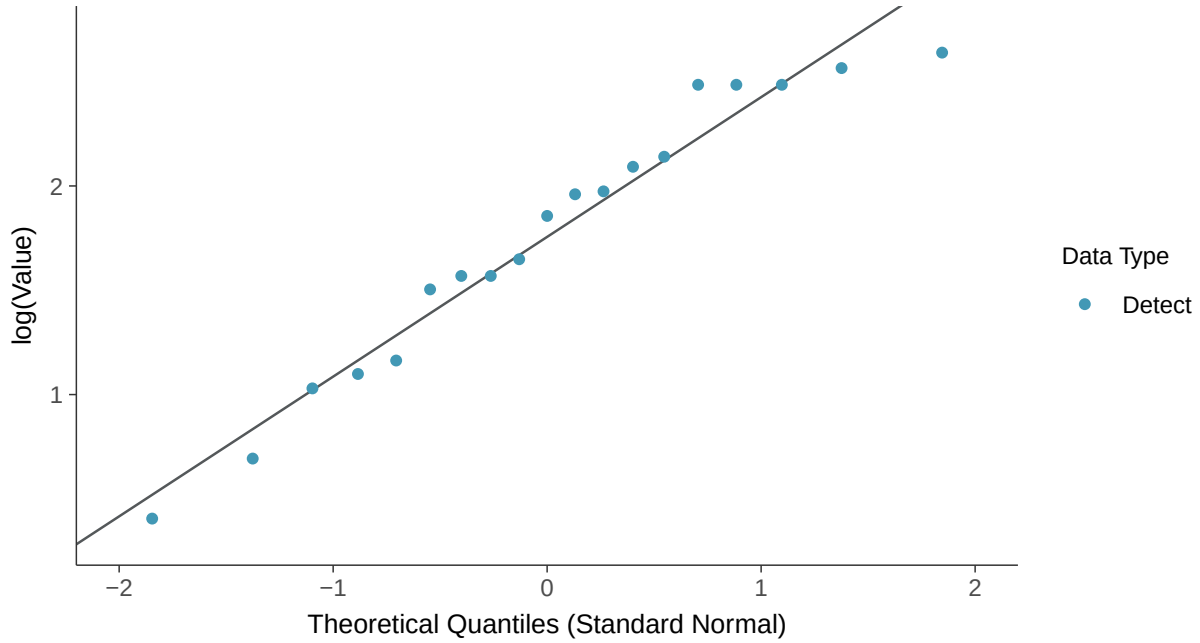
Normal Q-Q plot

Boron, MW-11 (mg/L)



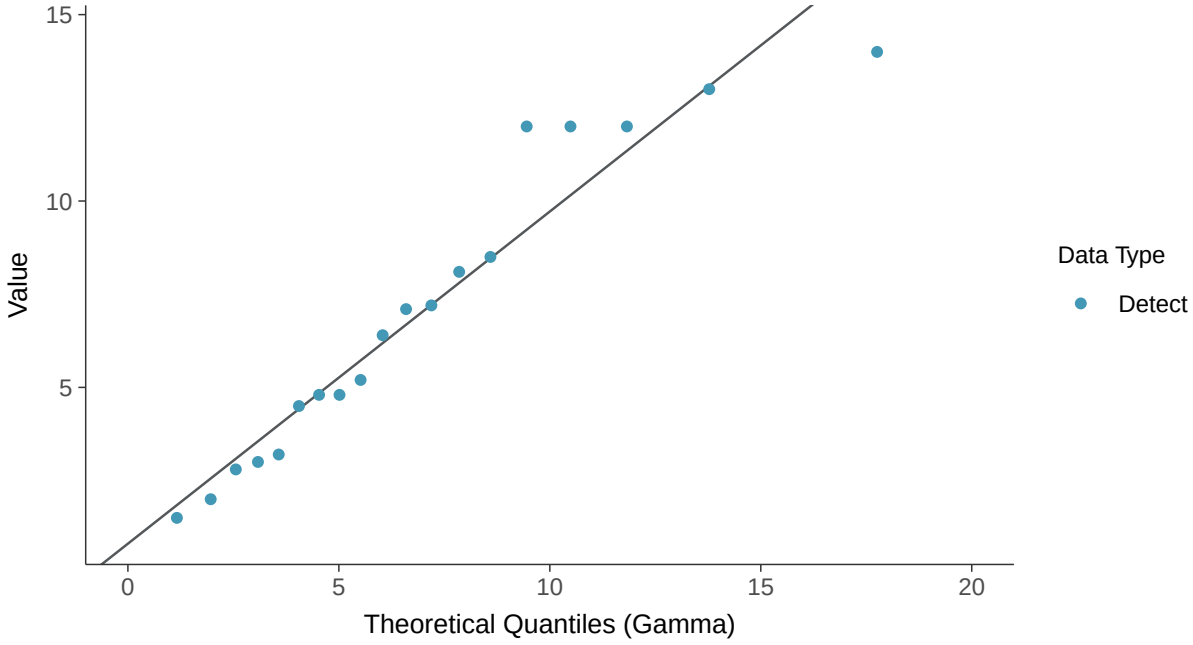
Lognormal Q-Q plot

Boron, MW-11 (mg/L)



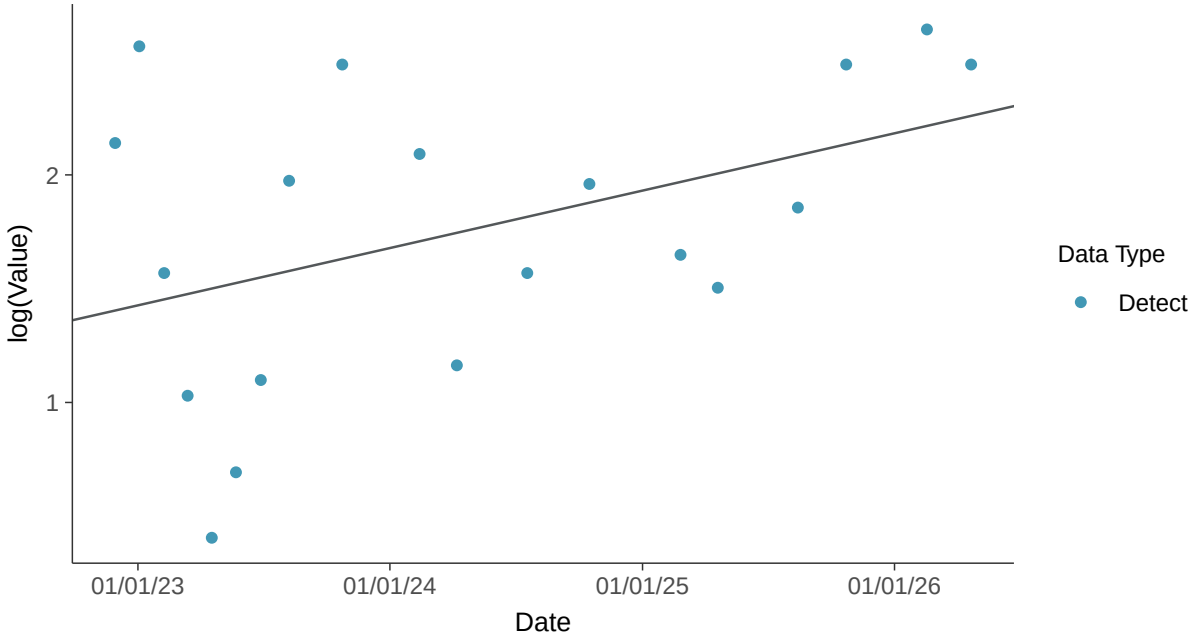
Gamma Q-Q plot

Boron, MW-11 (mg/L)



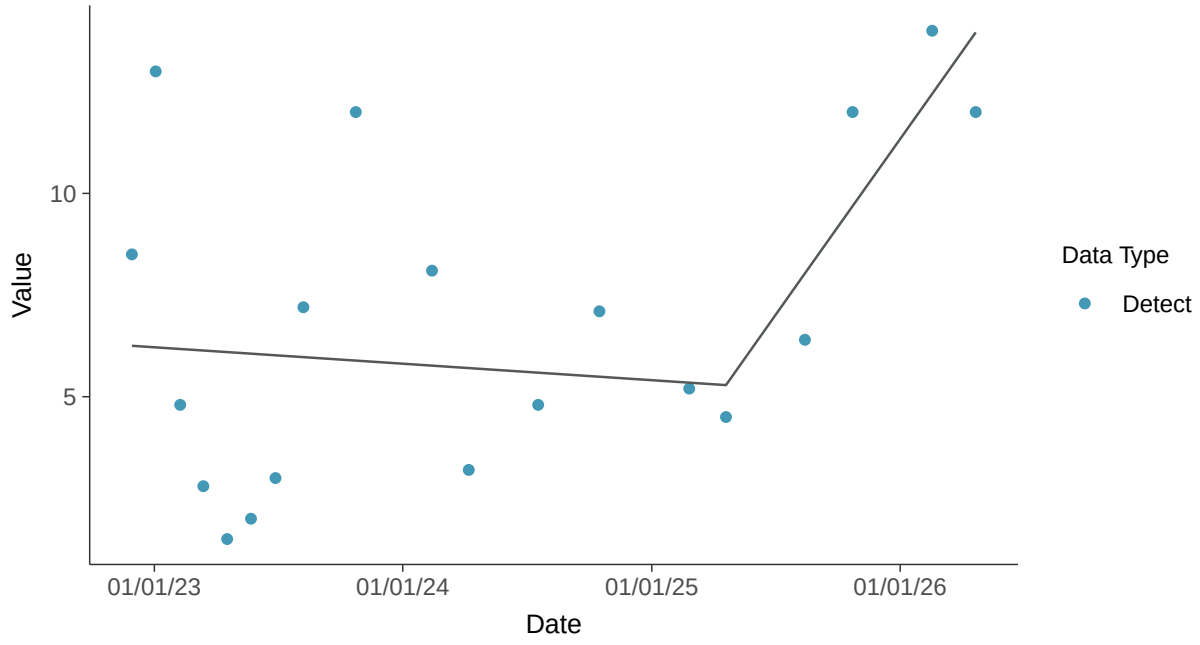
Trend Regression: Lognormal MLE

Boron, MW-11 (mg/L)



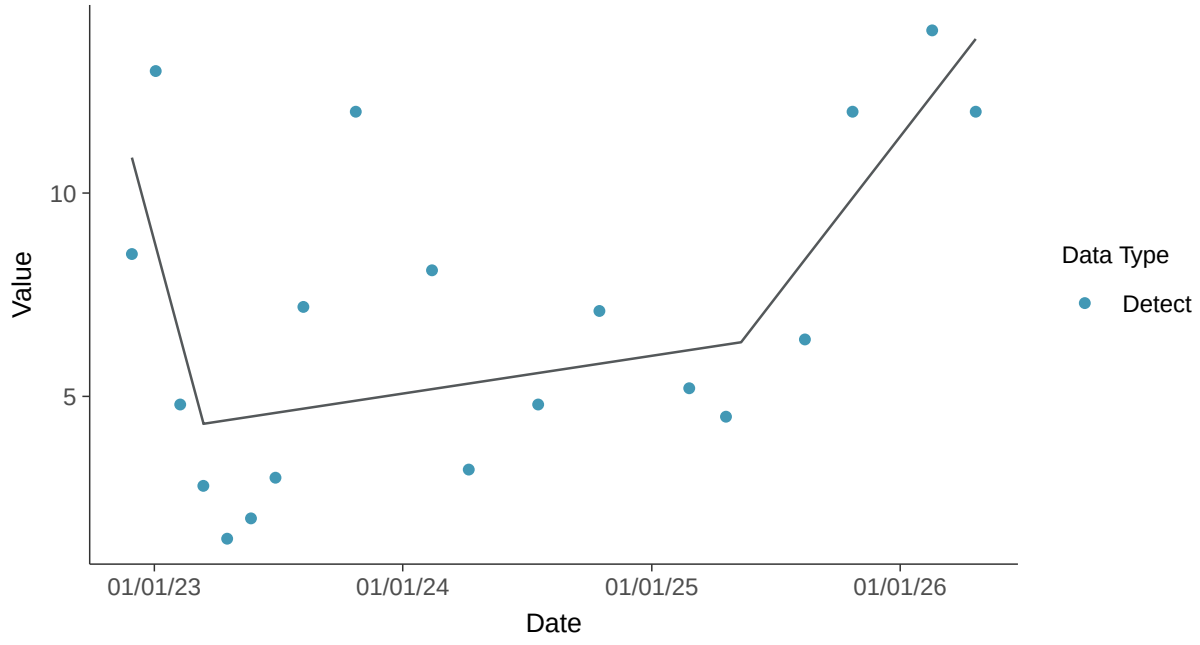
Trend Regression: Piecewise Linear-Linear

Boron, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-11 (mg/L)

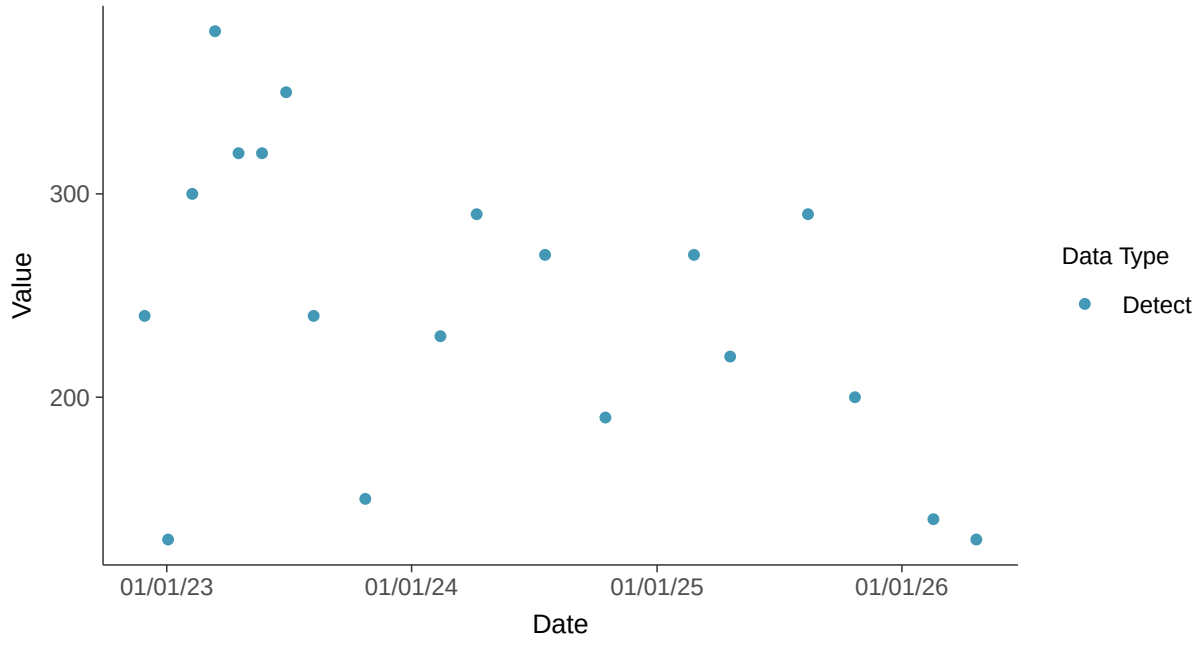


Appendix III: Calcium, MW-11

ID: 21_2_3_107

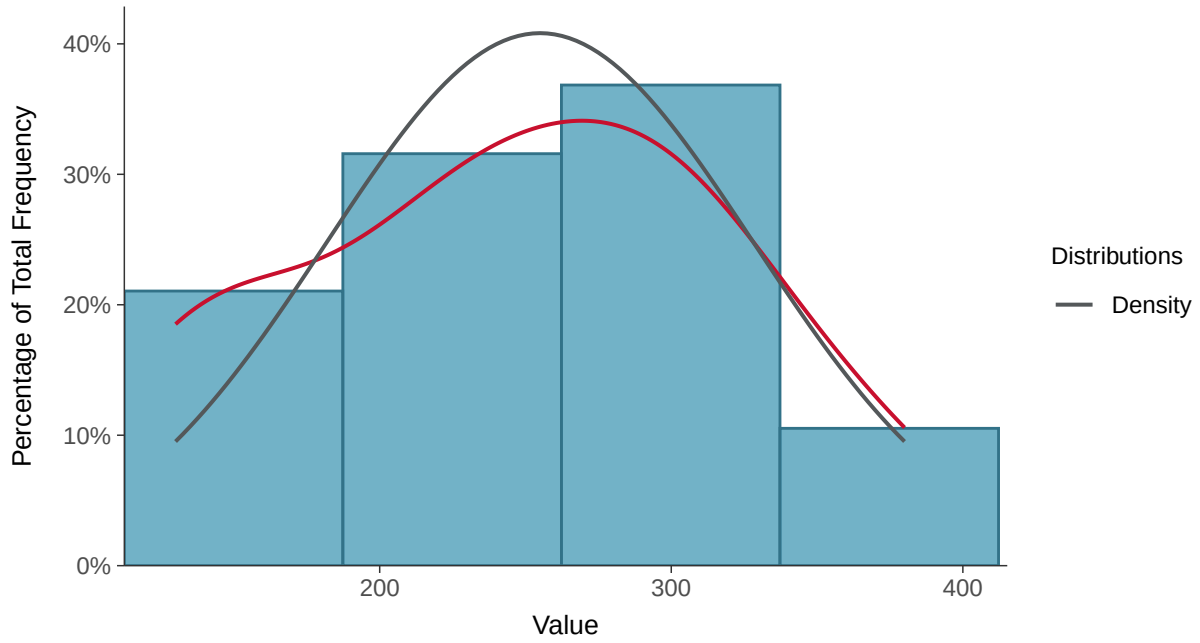
Scatter Plot

Calcium, MW-11 (mg/L)



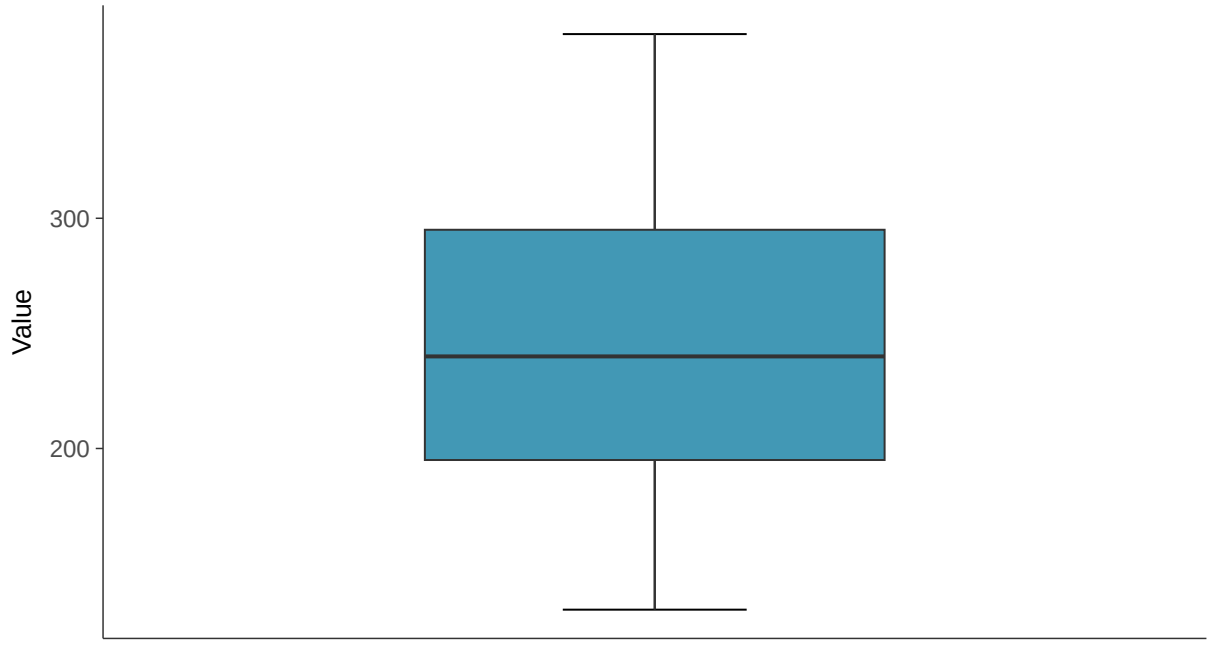
Histogram

Calcium, MW-11 (mg/L)



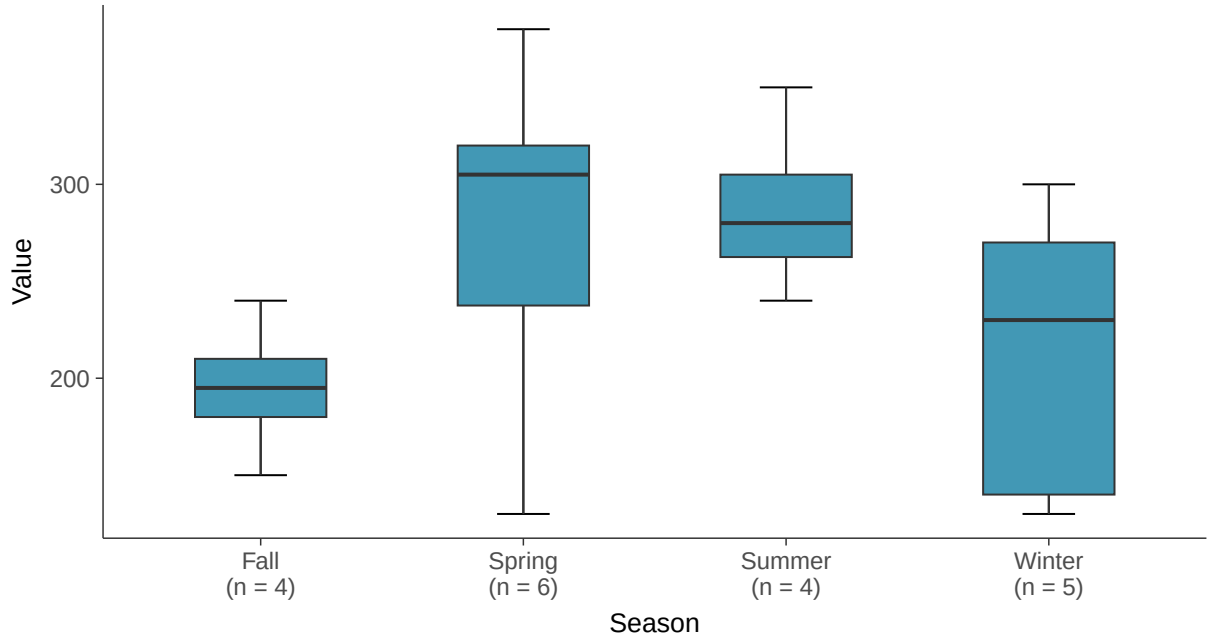
Boxplot

Calcium, MW-11 (mg/L)



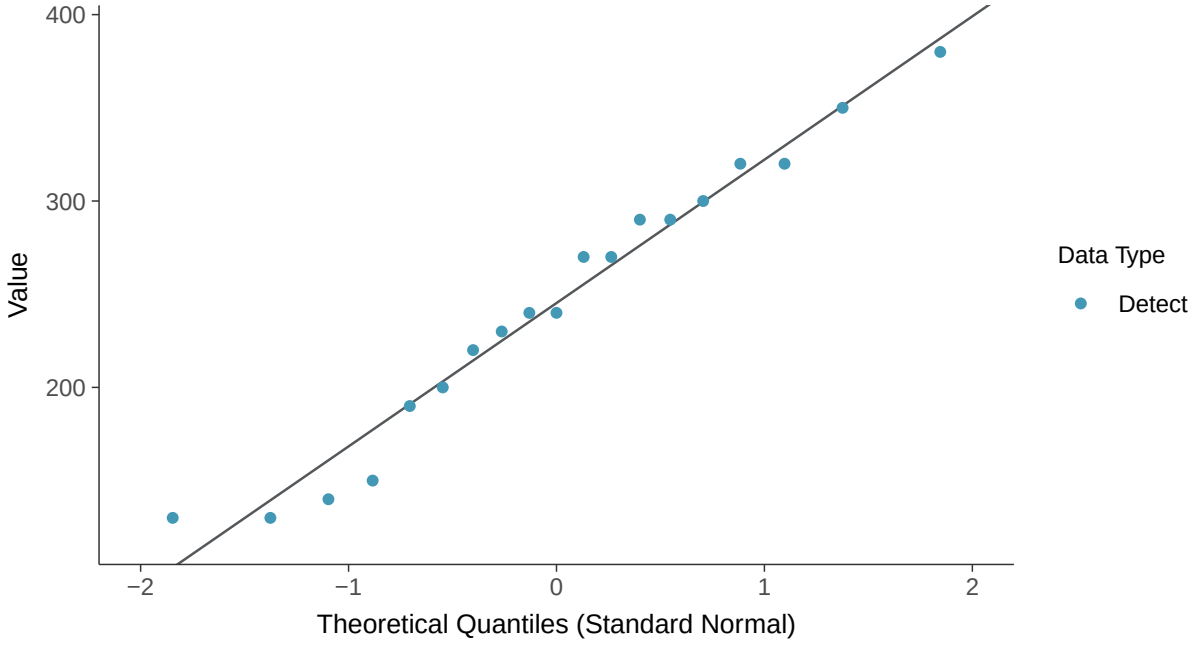
Boxplot by Season

Calcium, MW-11 (mg/L)



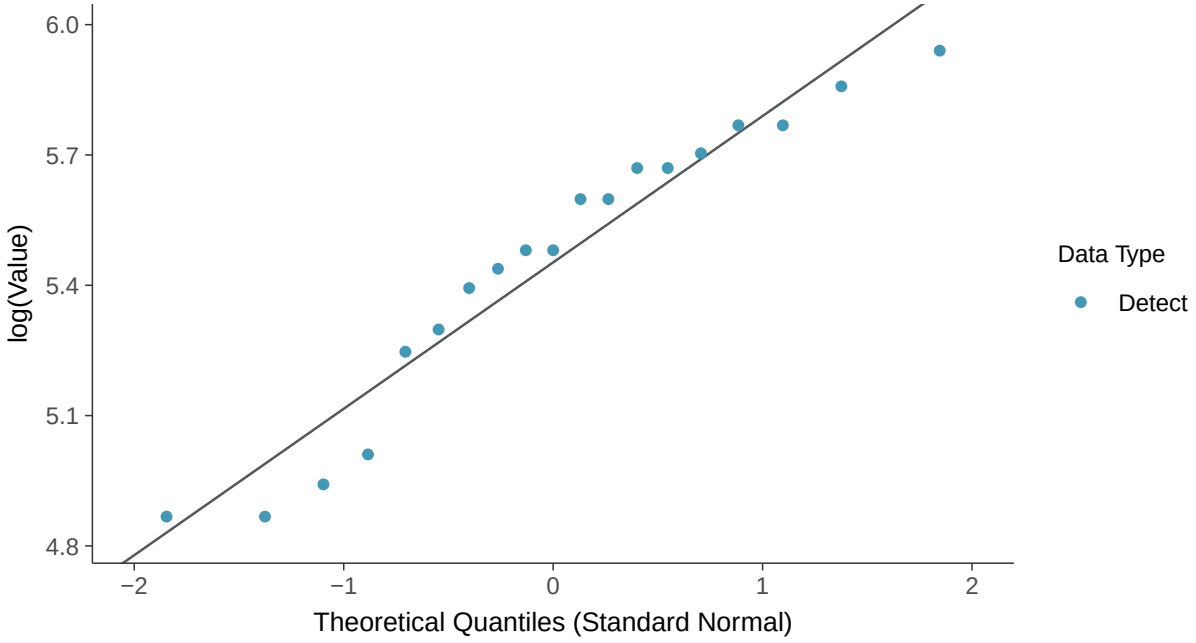
Normal Q-Q plot

Calcium, MW-11 (mg/L)



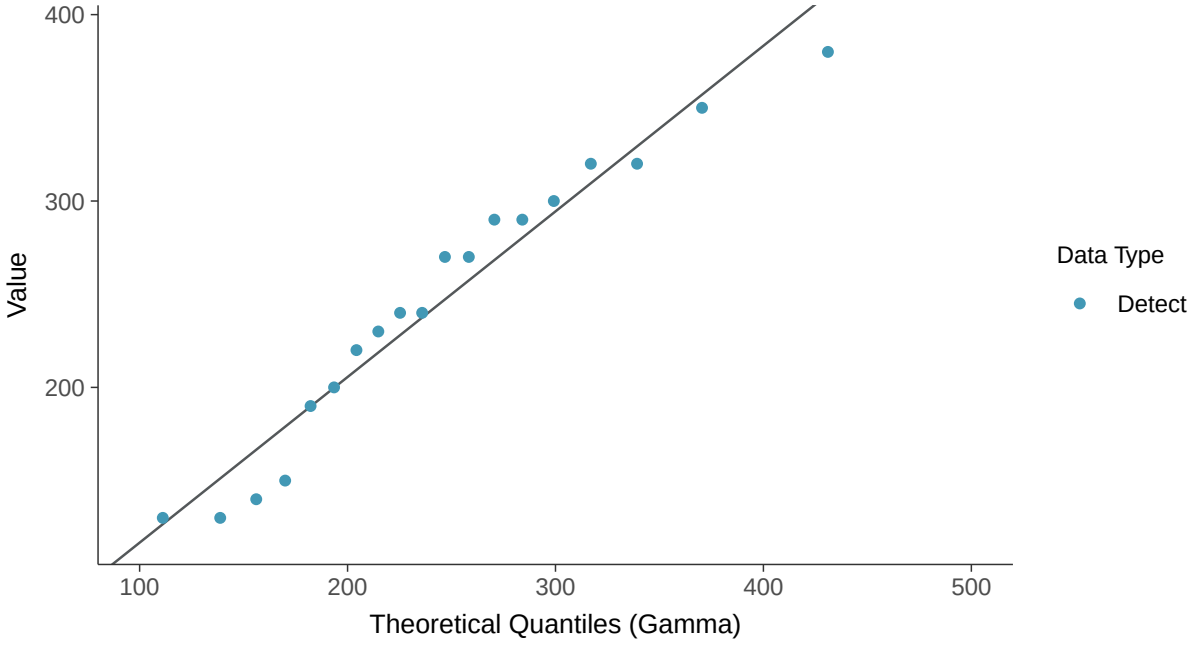
Lognormal Q-Q plot

Calcium, MW-11 (mg/L)



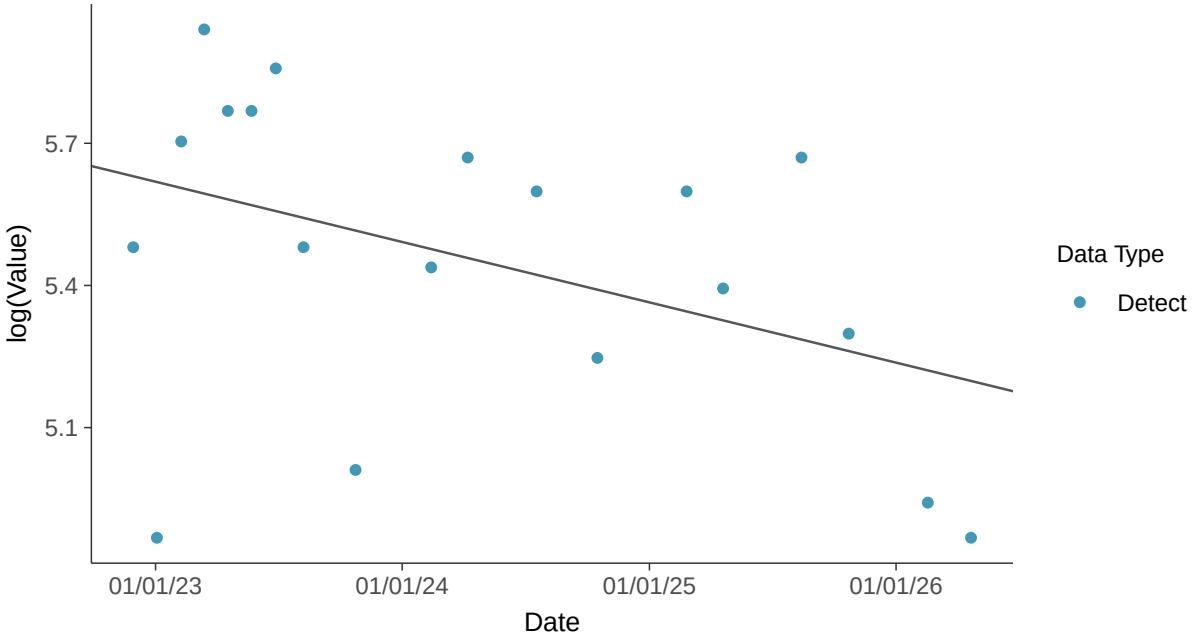
Gamma Q-Q plot

Calcium, MW-11 (mg/L)



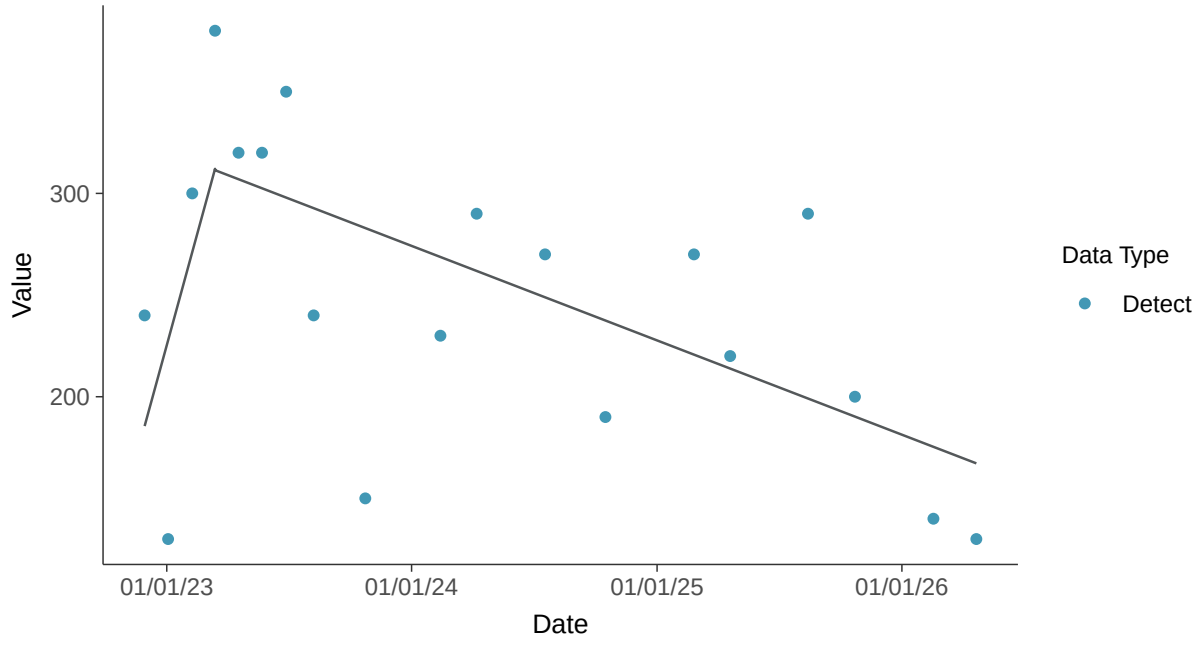
Trend Regression: Lognormal MLE

Calcium, MW-11 (mg/L)



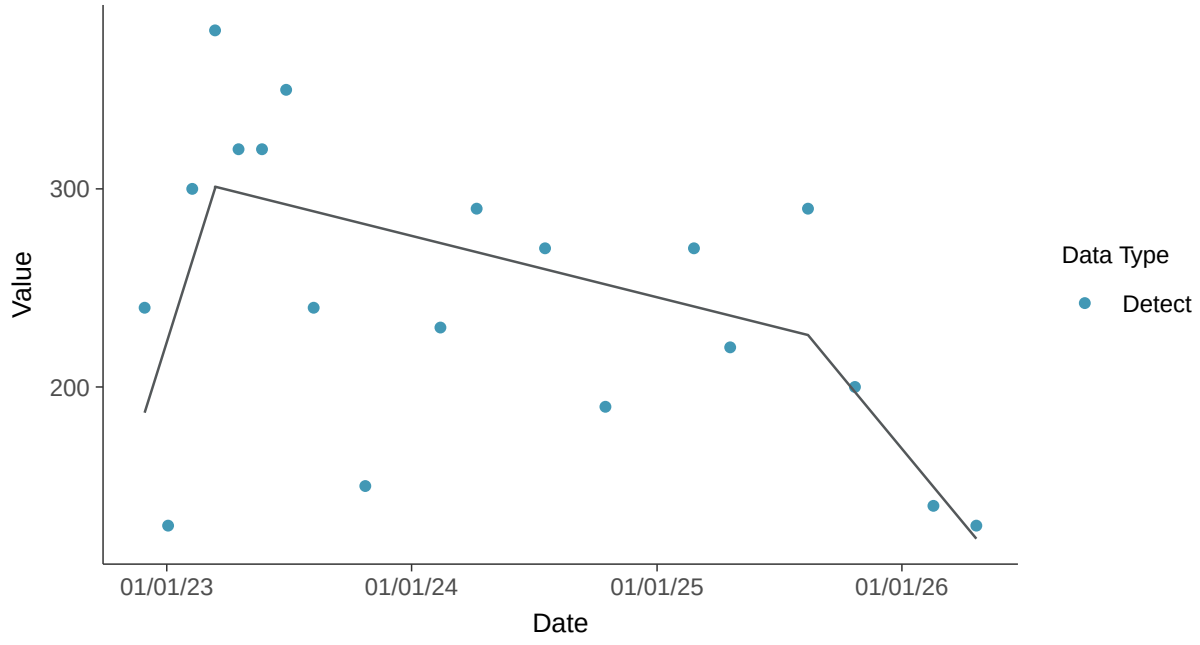
Trend Regression: Piecewise Linear-Linear

Calcium, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-11 (mg/L)

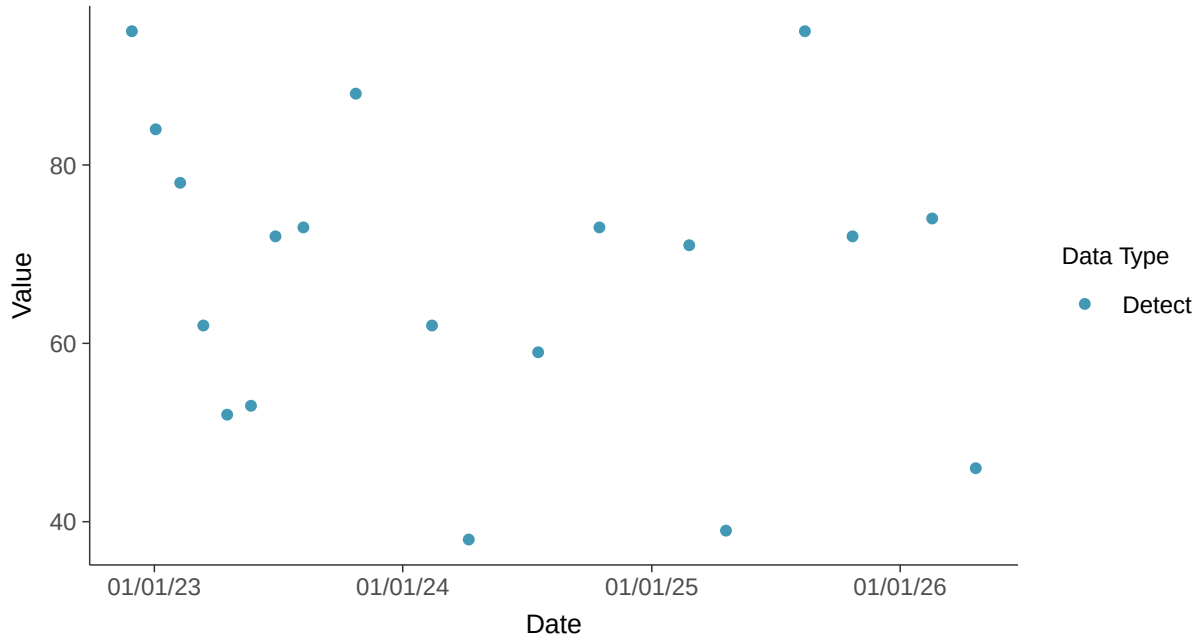


Appendix III: Chloride (as Cl), MW-11

ID: 21_2_3_108

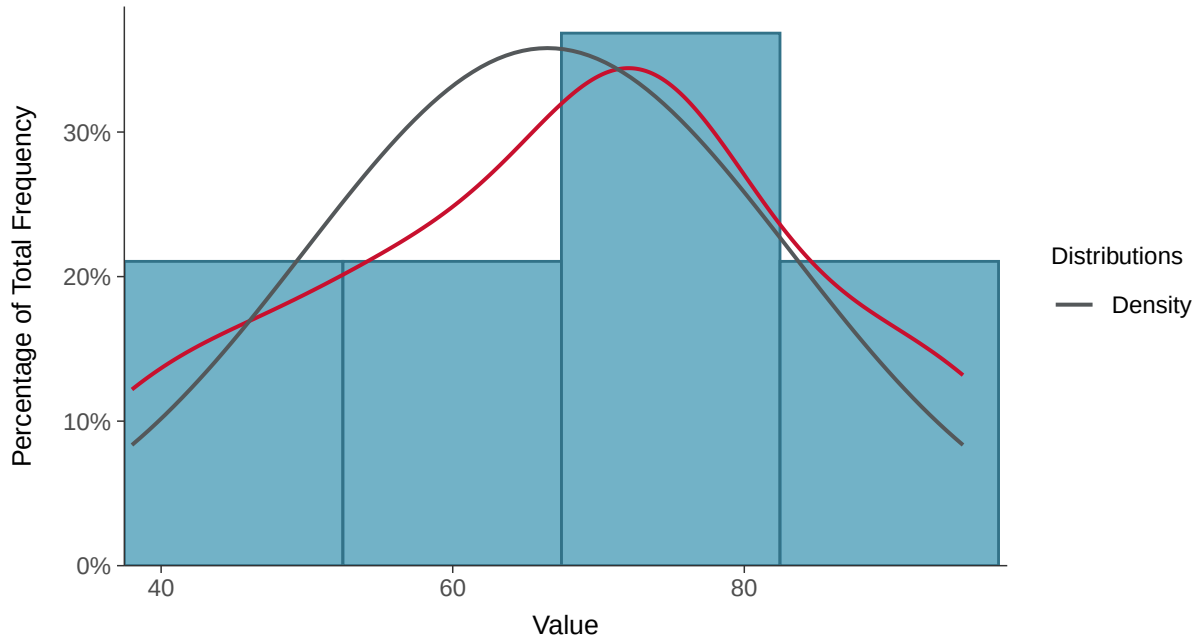
Scatter Plot

Chloride (as Cl), MW-11 (mg/L)



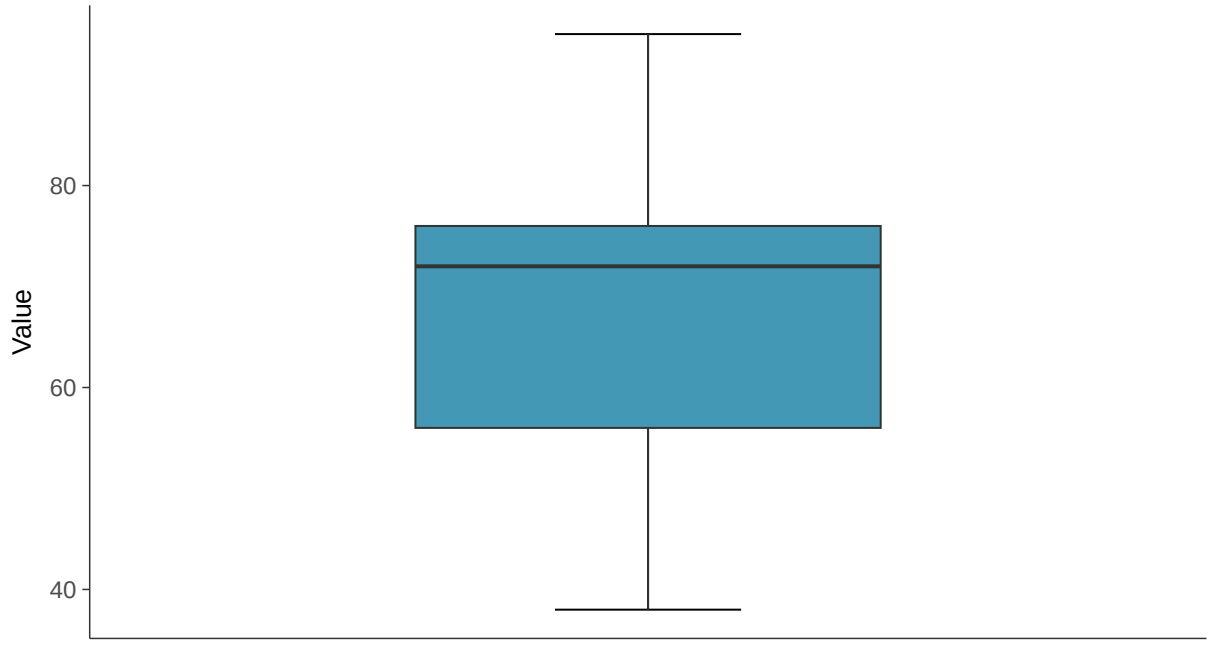
Histogram

Chloride (as Cl), MW-11 (mg/L)



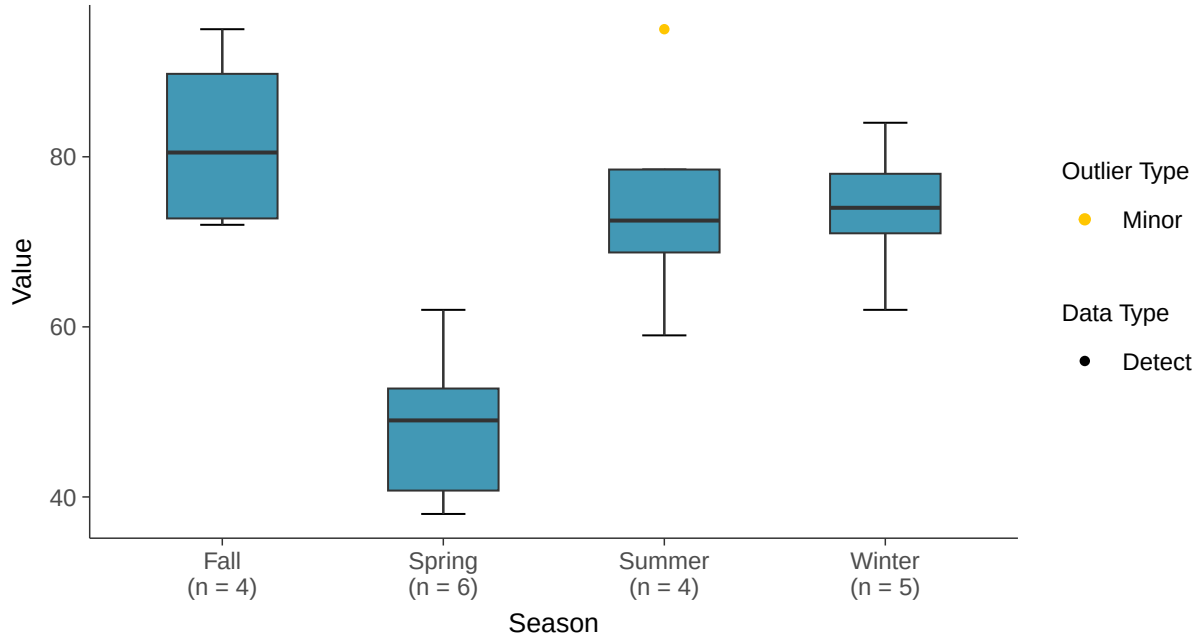
Boxplot

Chloride (as Cl), MW-11 (mg/L)



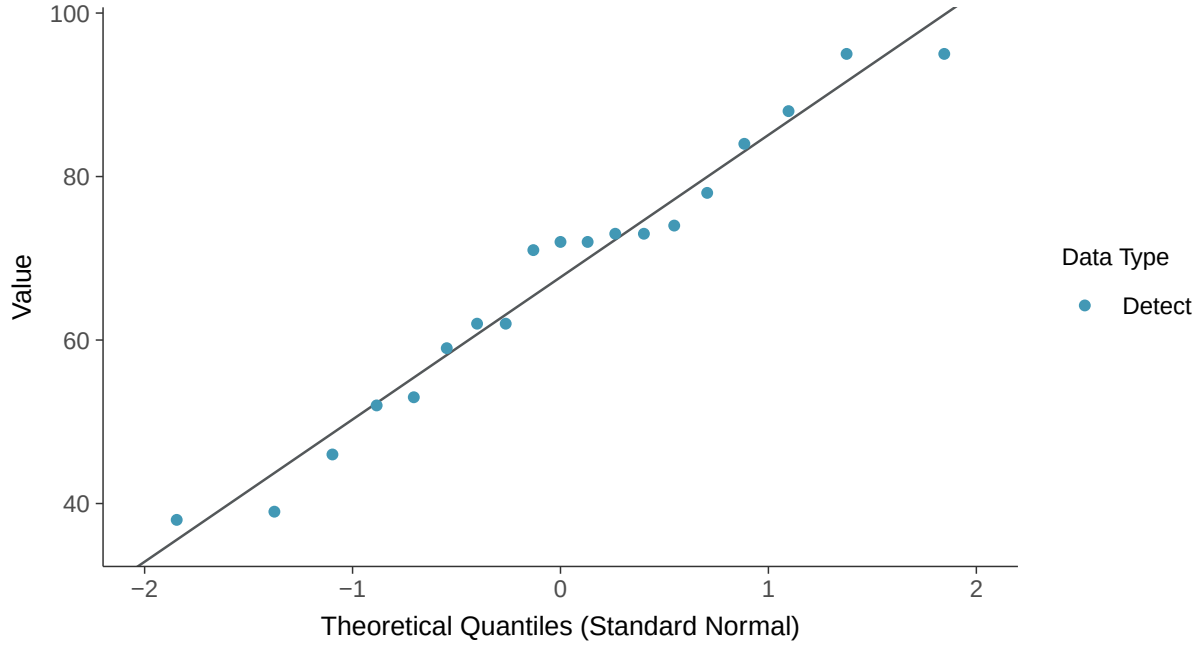
Boxplot by Season

Chloride (as Cl), MW-11 (mg/L)



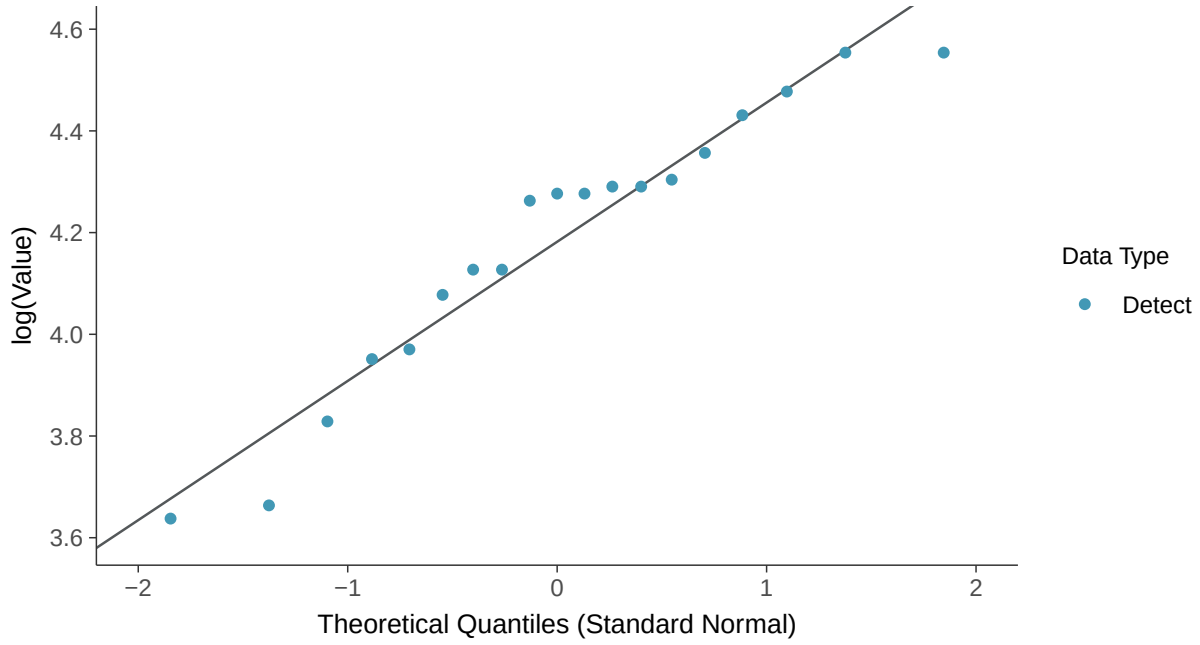
Normal Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



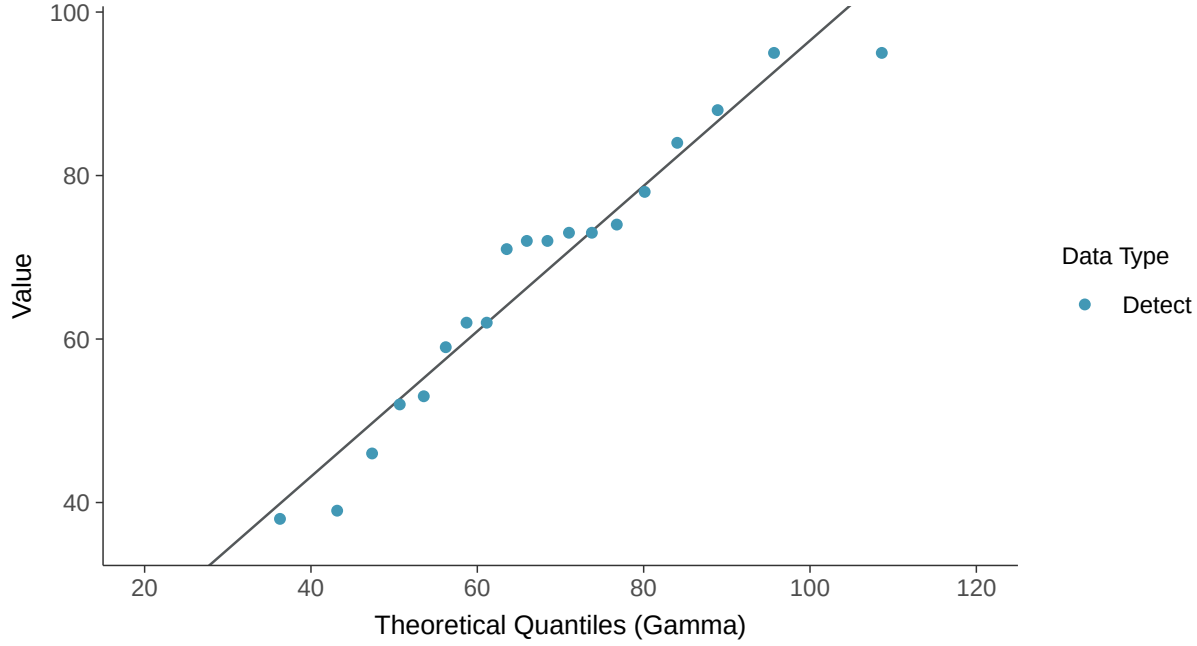
Lognormal Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



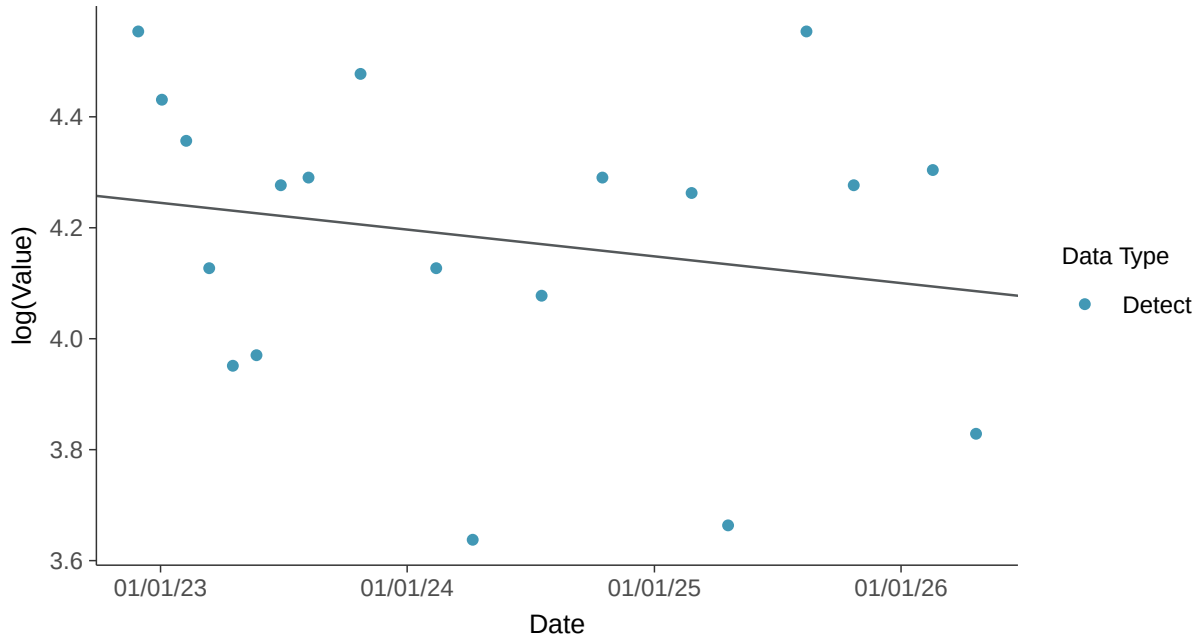
Gamma Q-Q plot

Chloride (as Cl), MW-11 (mg/L)



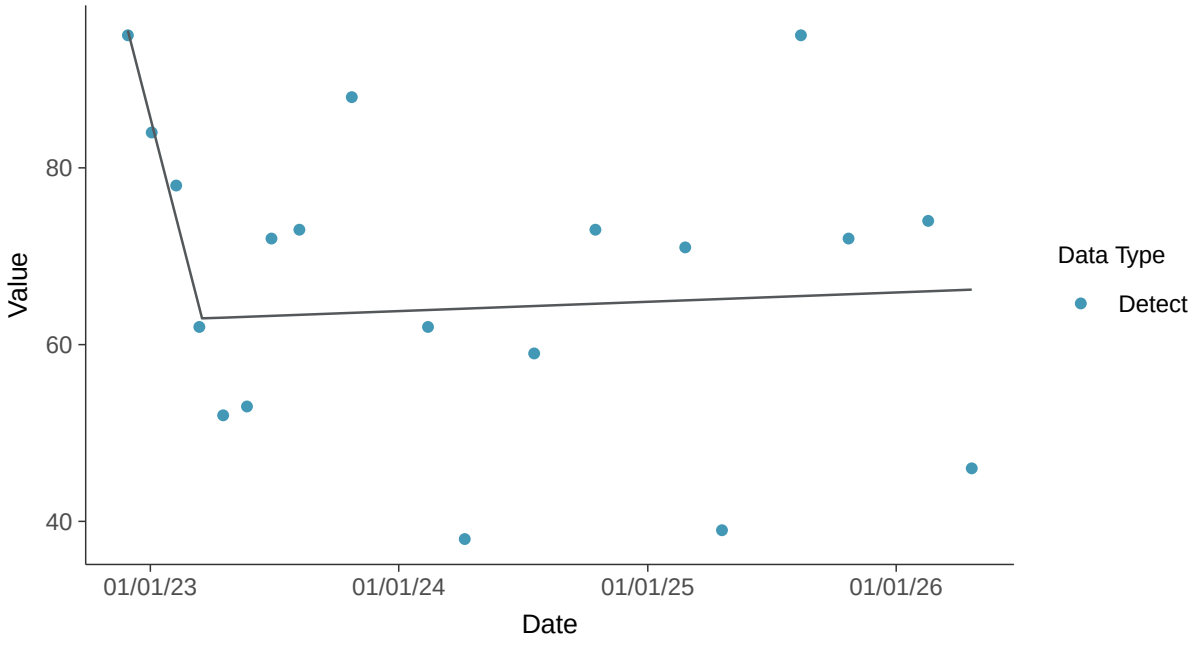
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-11 (mg/L)



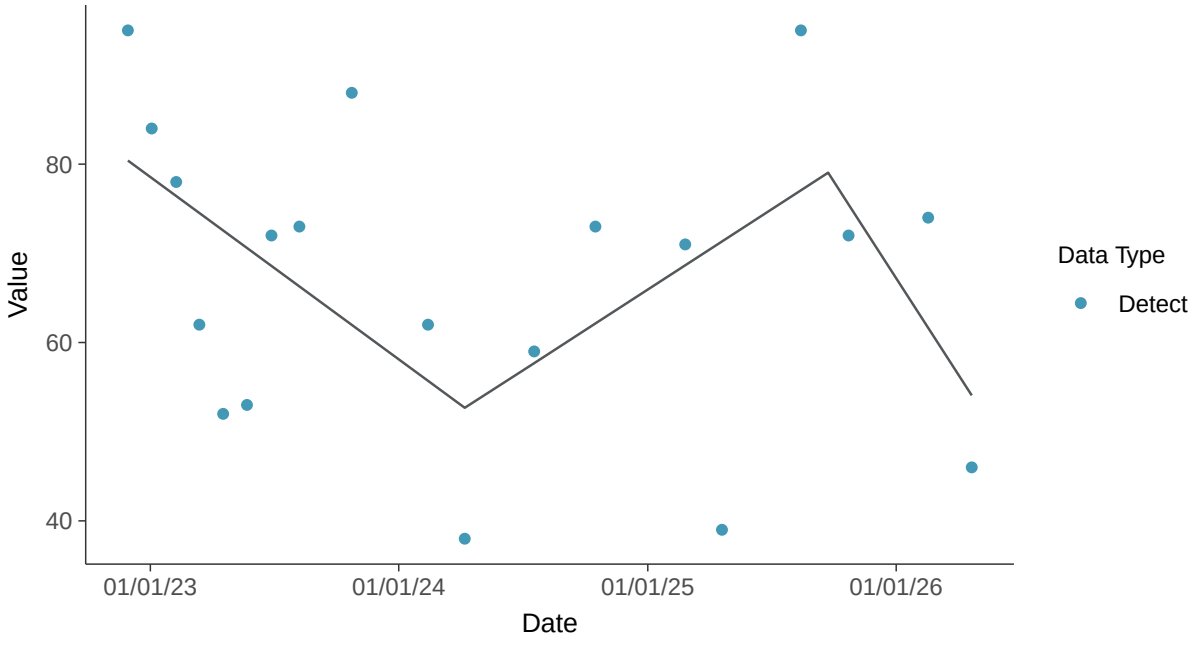
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-11 (mg/L)



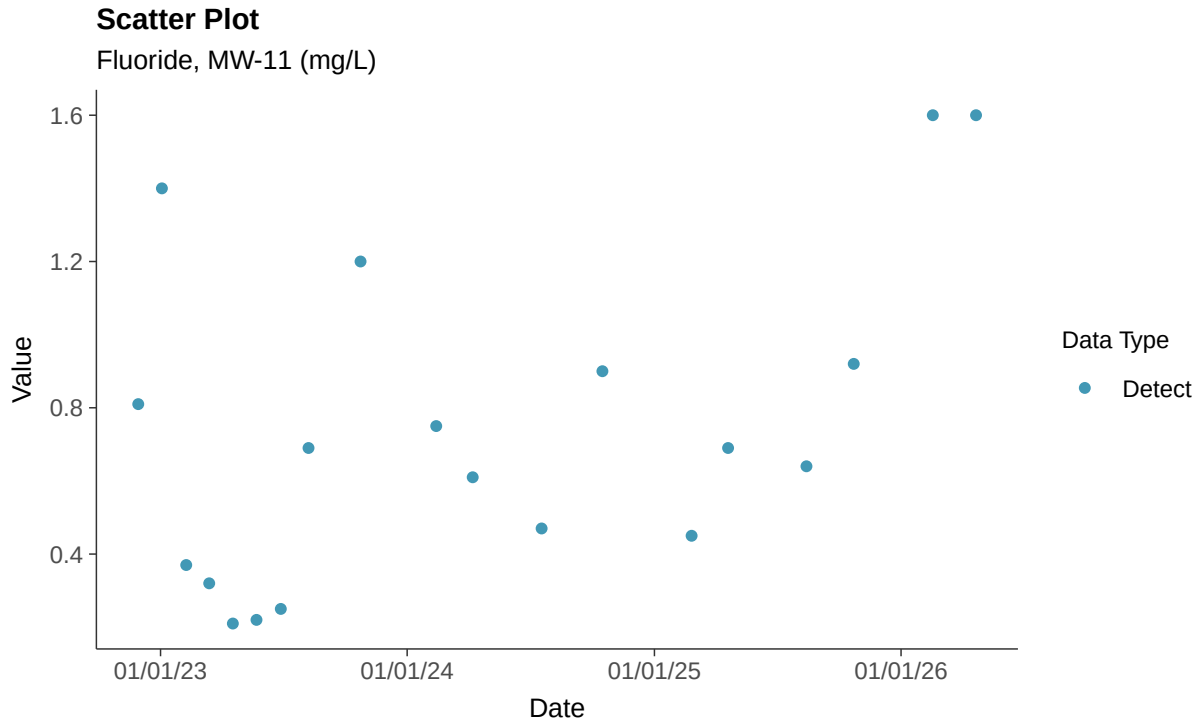
Trend Regression: Piecewise Linear-Linear-Linear

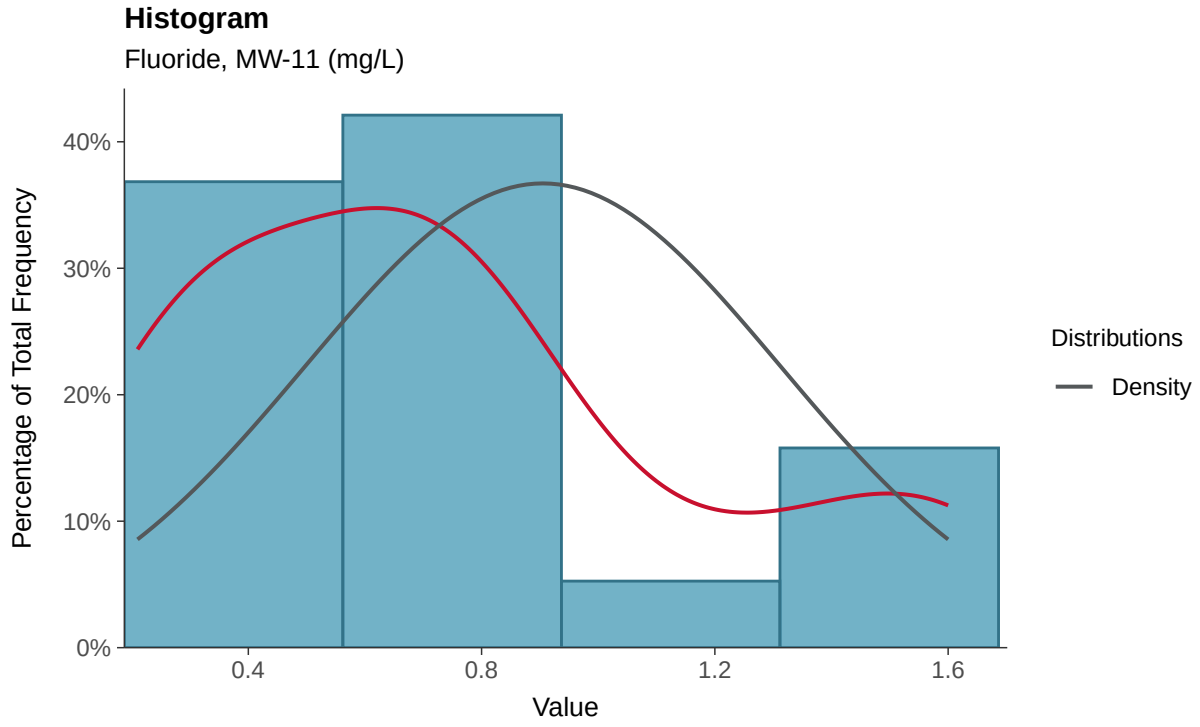
Chloride (as Cl), MW-11 (mg/L)



Appendix III: Fluoride, MW-11

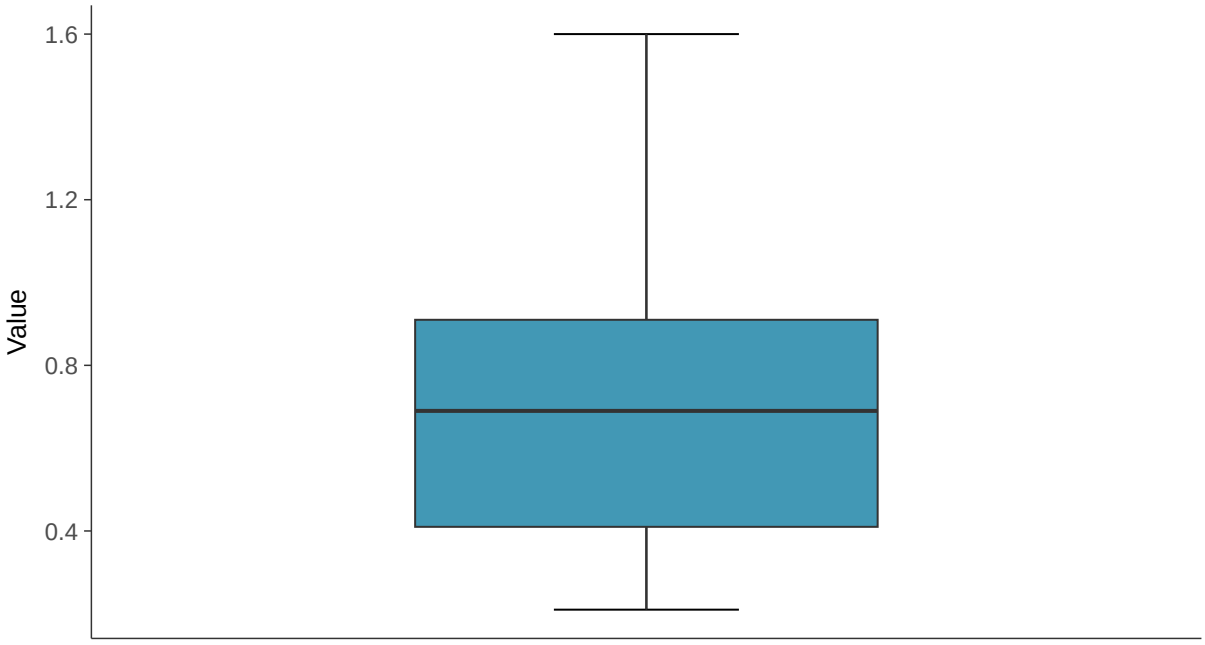
ID: 21_2_3_112





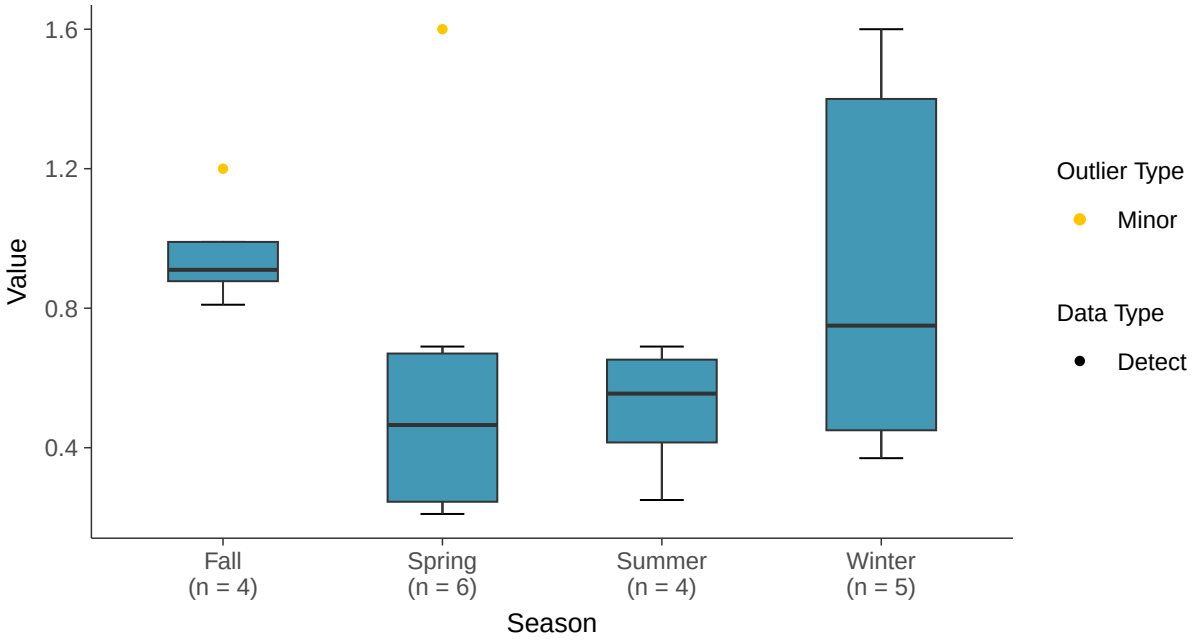
Boxplot

Fluoride, MW-11 (mg/L)



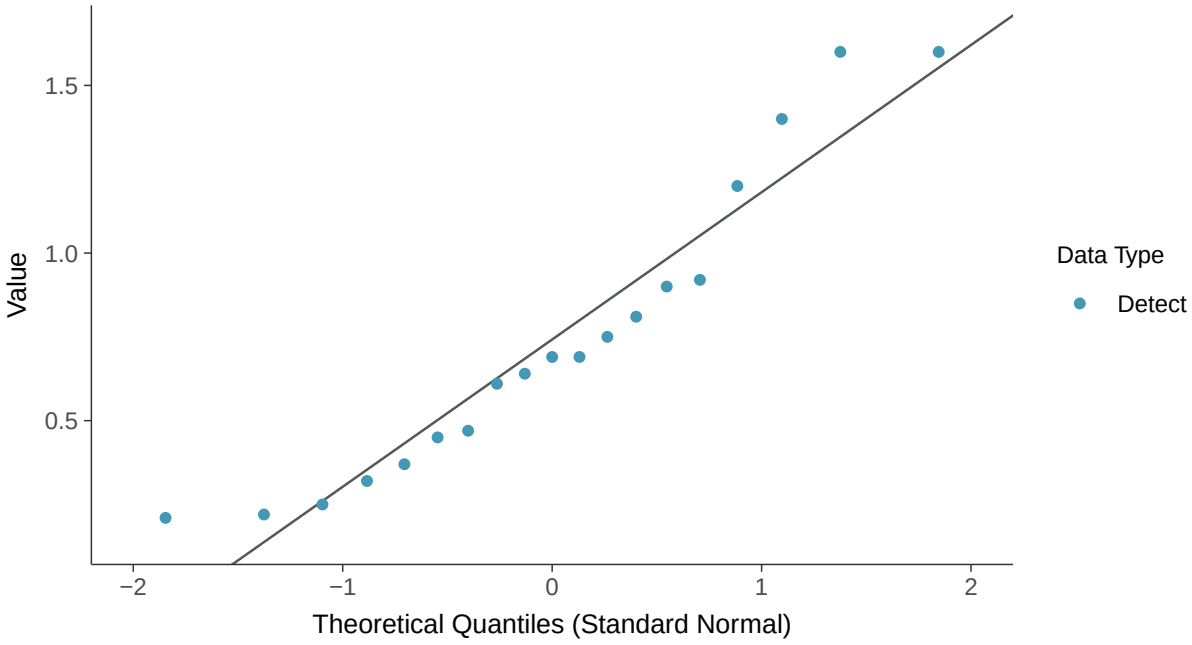
Boxplot by Season

Fluoride, MW-11 (mg/L)



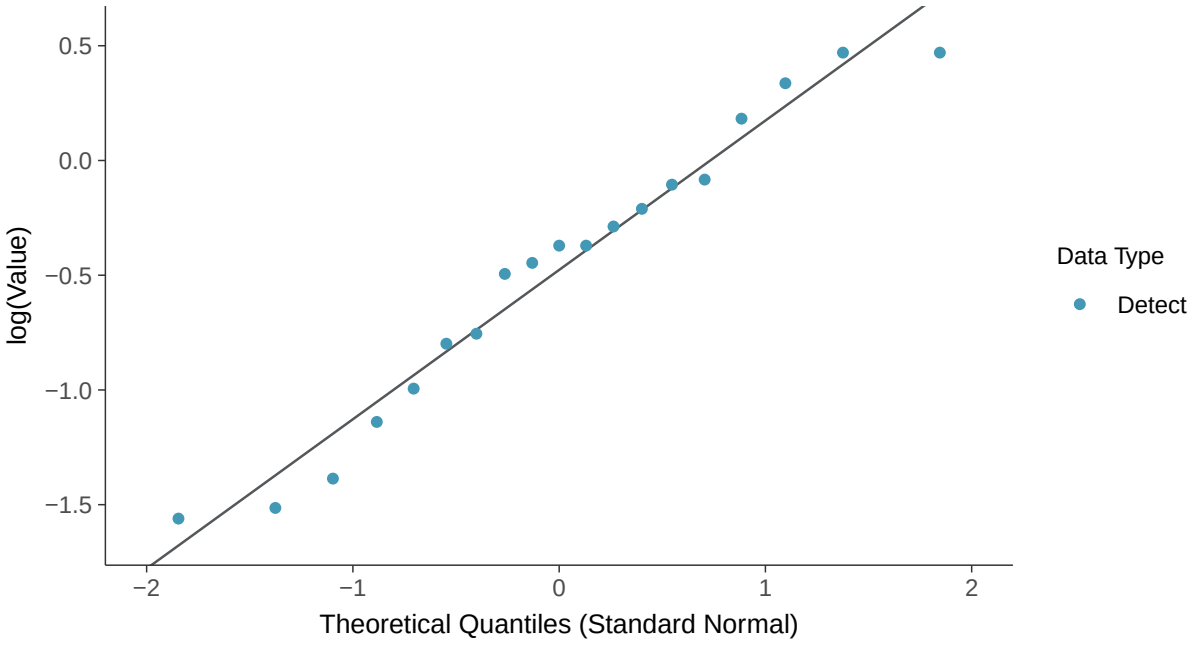
Normal Q-Q plot

Fluoride, MW-11 (mg/L)



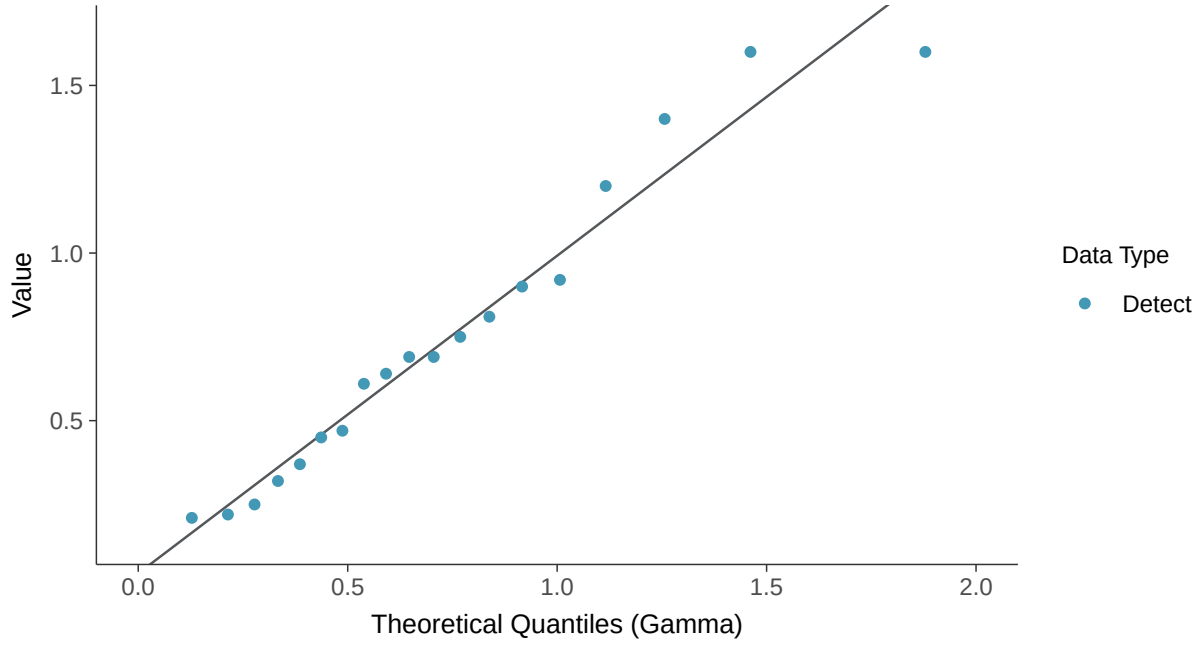
Lognormal Q-Q plot

Fluoride, MW-11 (mg/L)



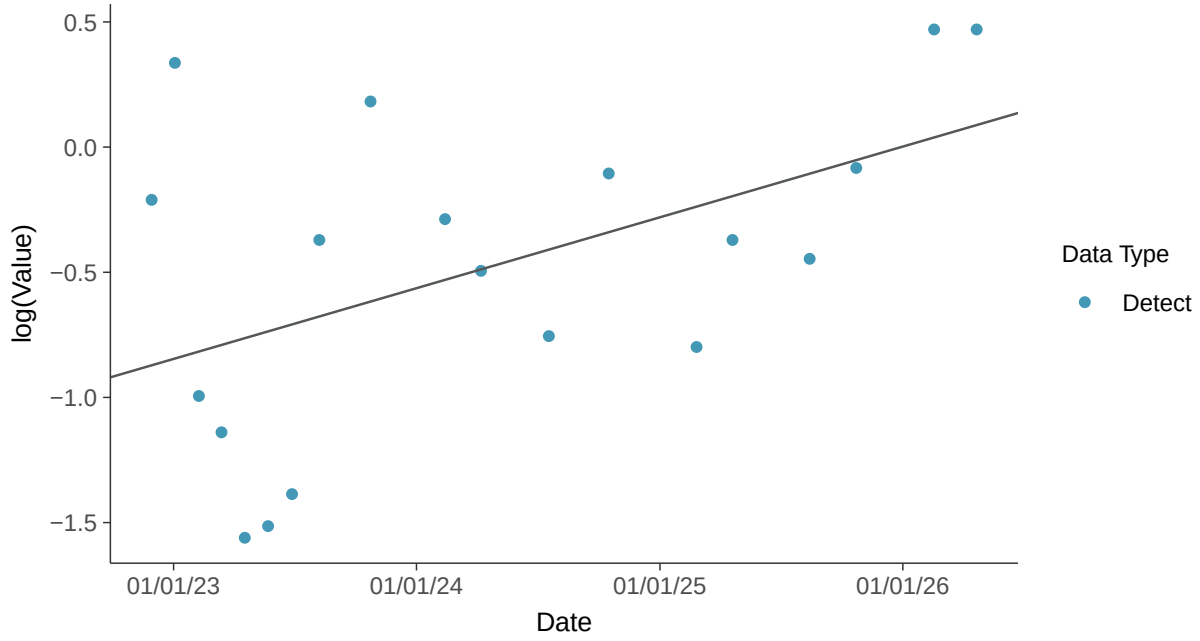
Gamma Q-Q plot

Fluoride, MW-11 (mg/L)



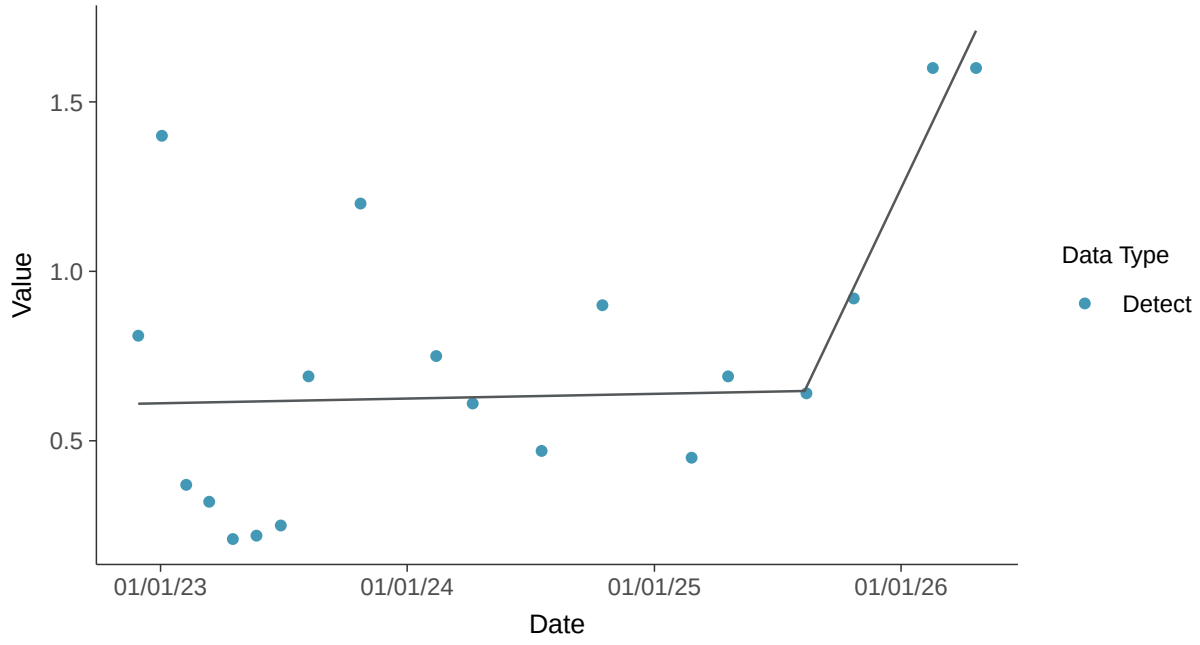
Trend Regression: Lognormal MLE

Fluoride, MW-11 (mg/L)



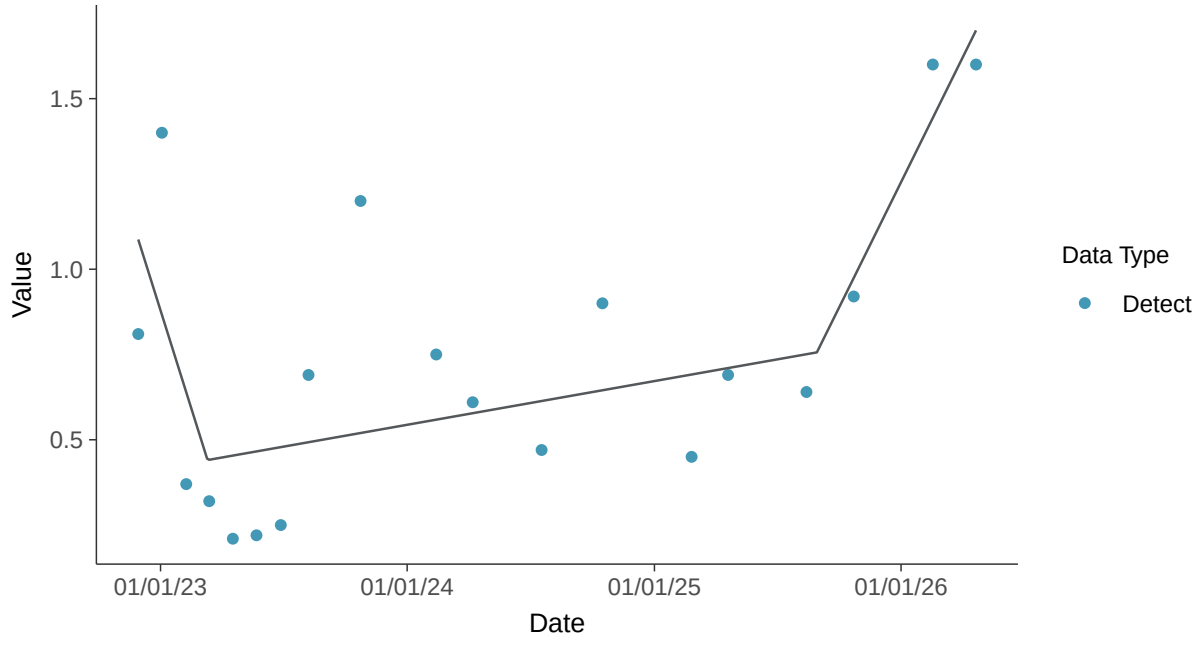
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-11 (mg/L)

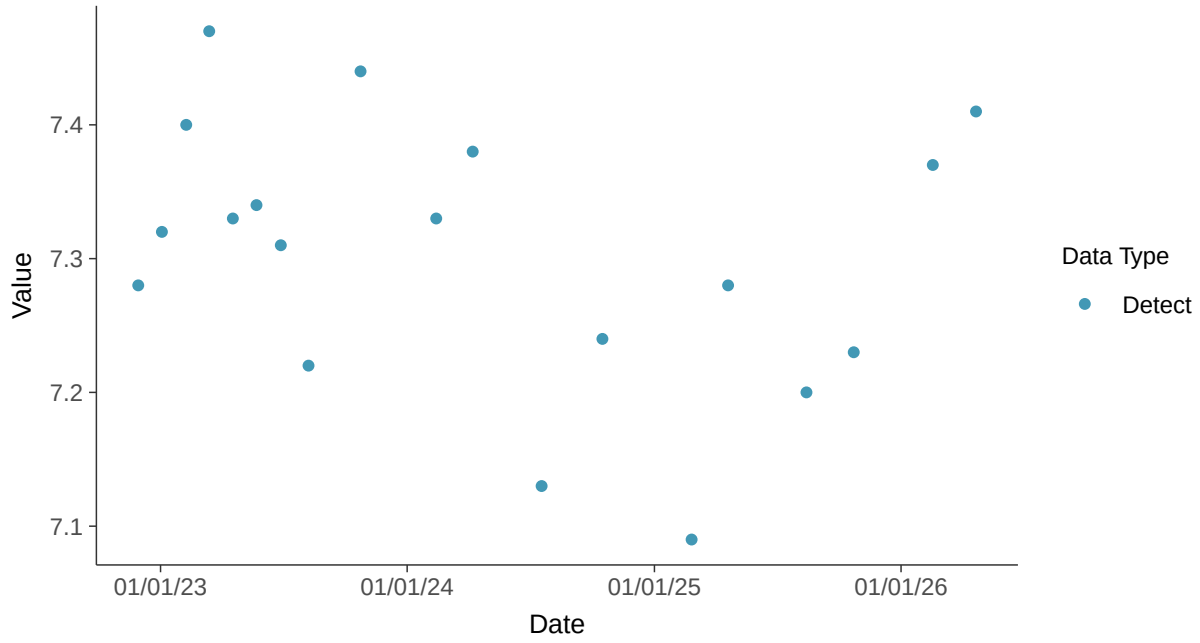


Appendix III: pH (field), MW-11

ID: 21_2_3_120

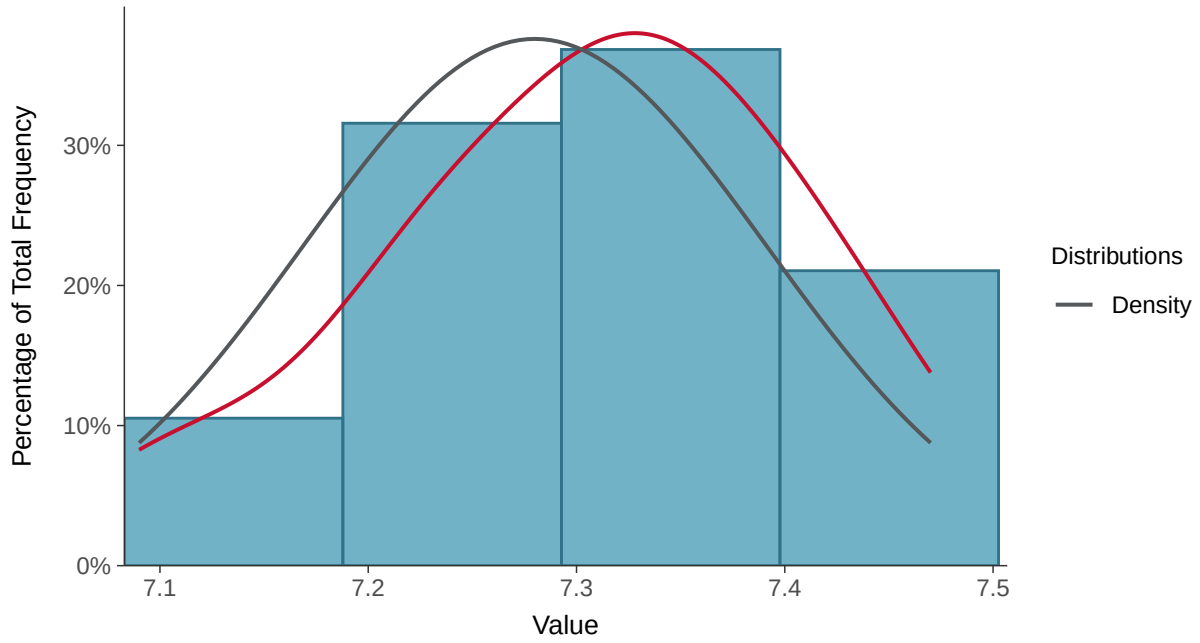
Scatter Plot

pH (field), MW-11 (su)



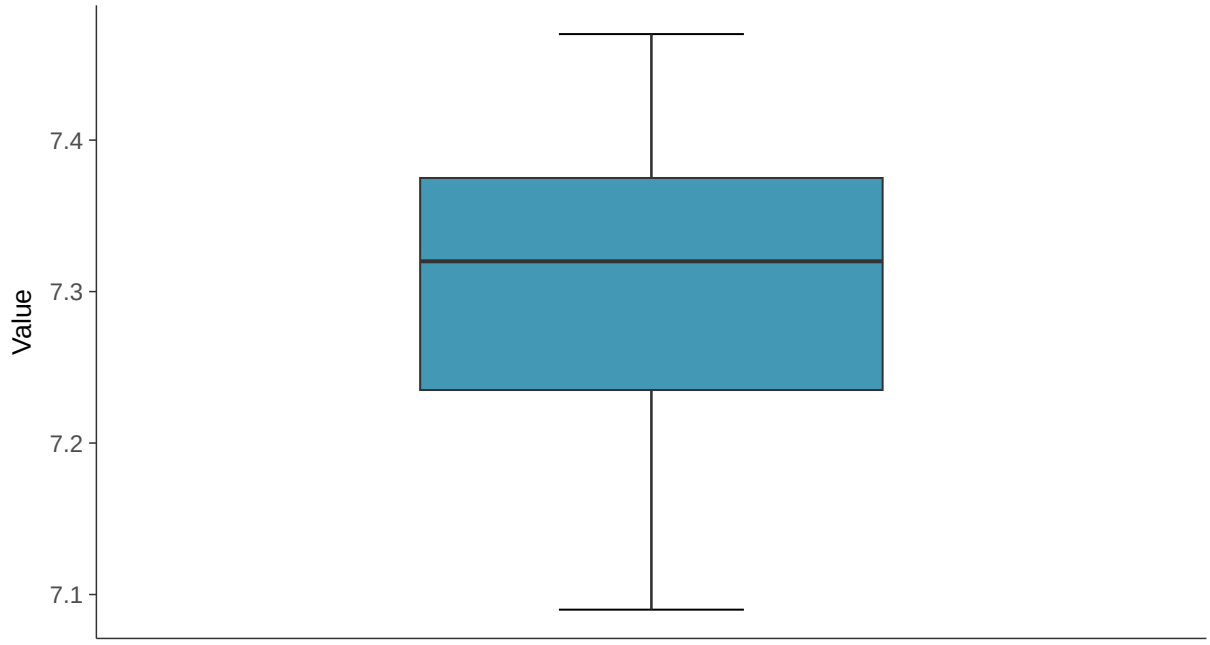
Histogram

pH (field), MW-11 (su)



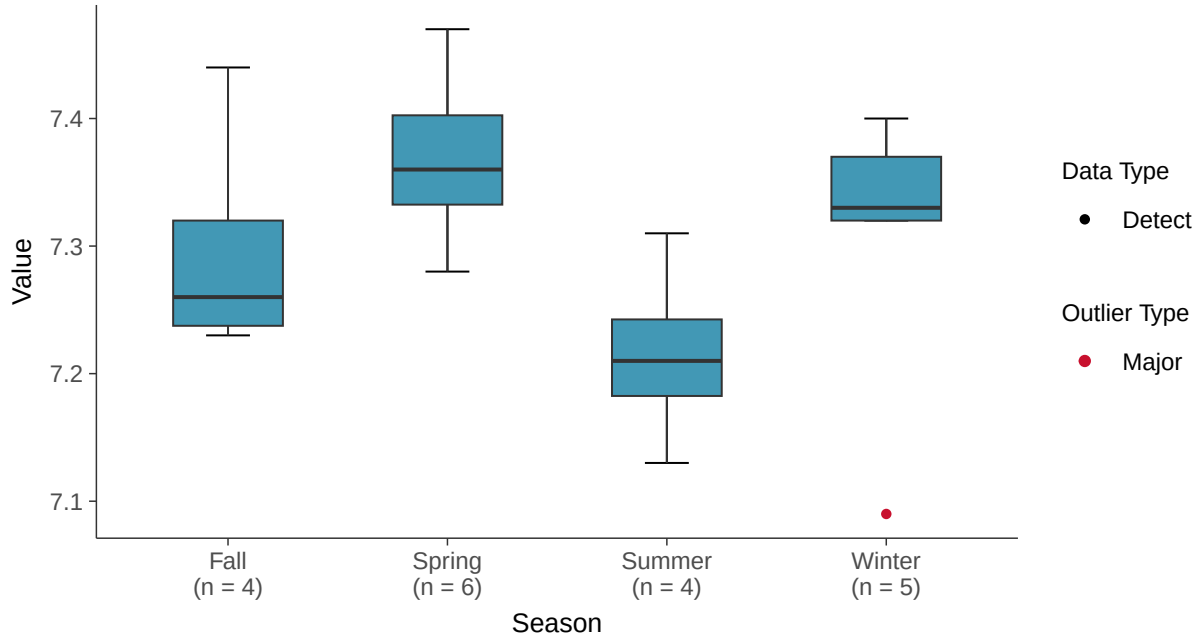
Boxplot

pH (field), MW-11 (su)



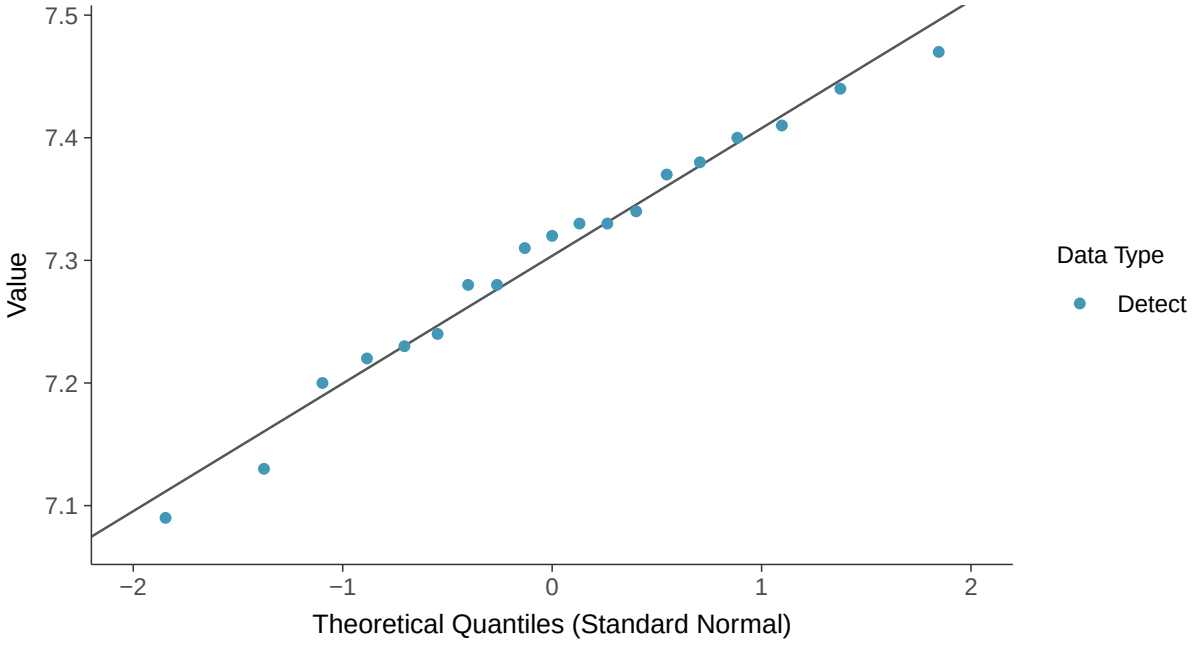
Boxplot by Season

pH (field), MW-11 (su)



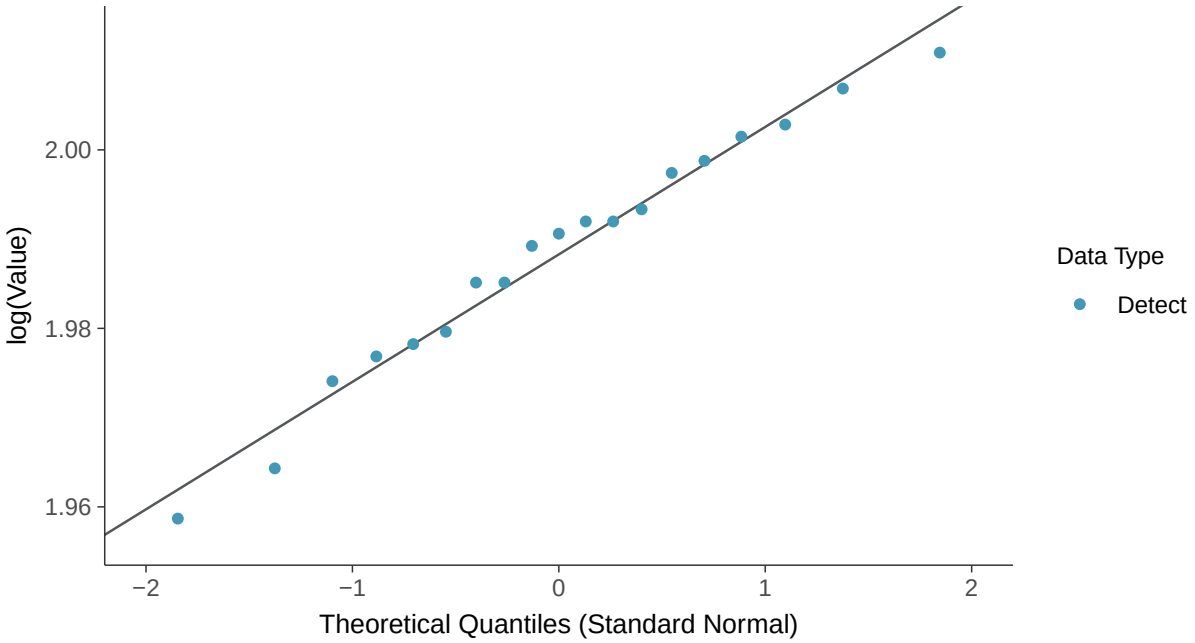
Normal Q-Q plot

pH (field), MW-11 (su)



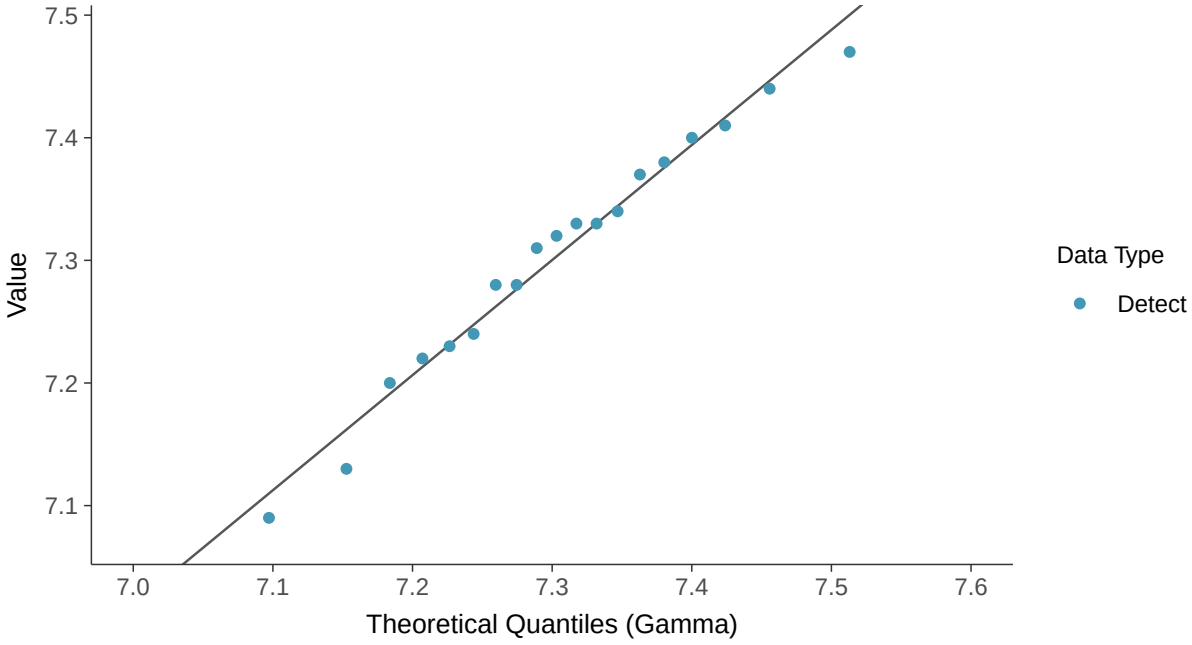
Lognormal Q-Q plot

pH (field), MW-11 (su)



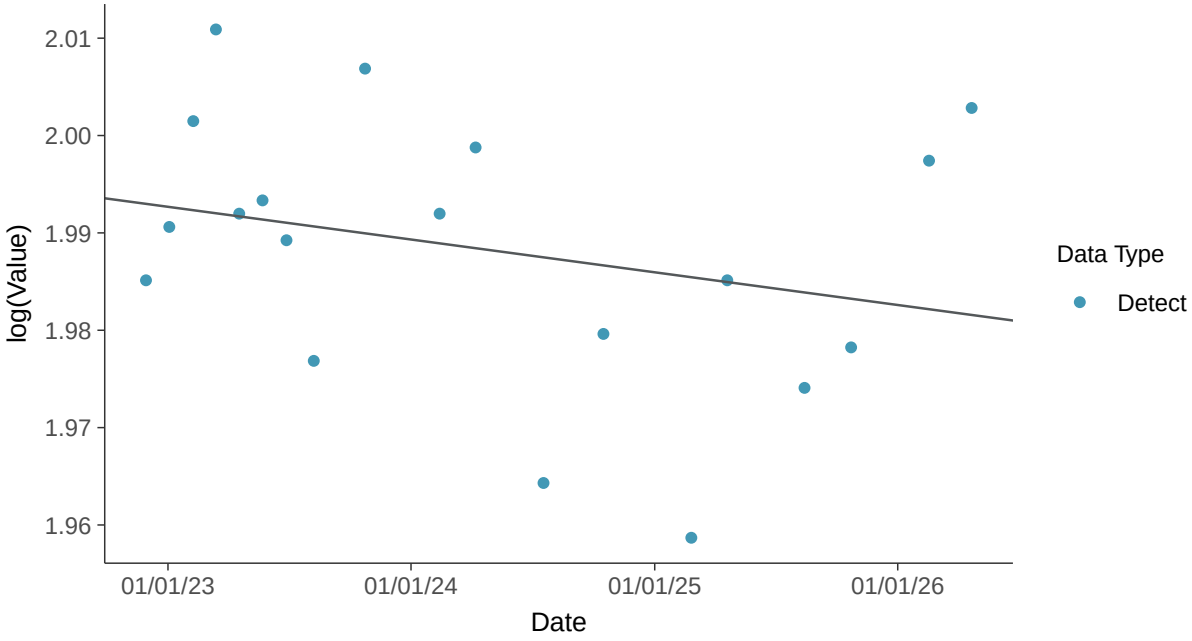
Gamma Q-Q plot

pH (field), MW-11 (su)



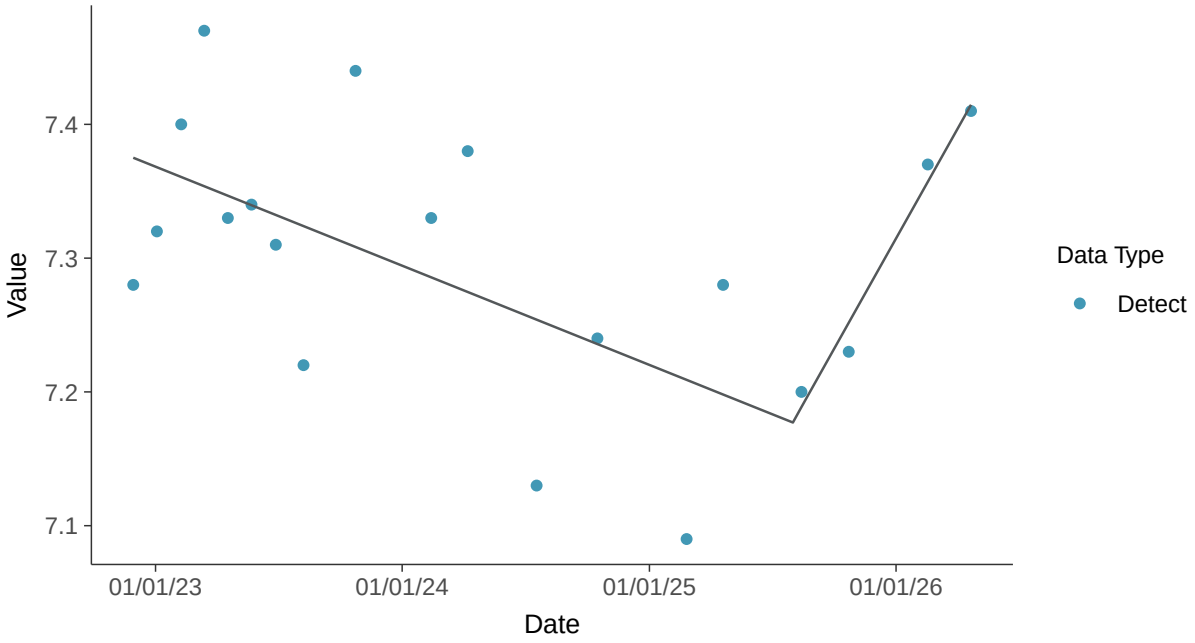
Trend Regression: Lognormal MLE

pH (field), MW-11 (su)



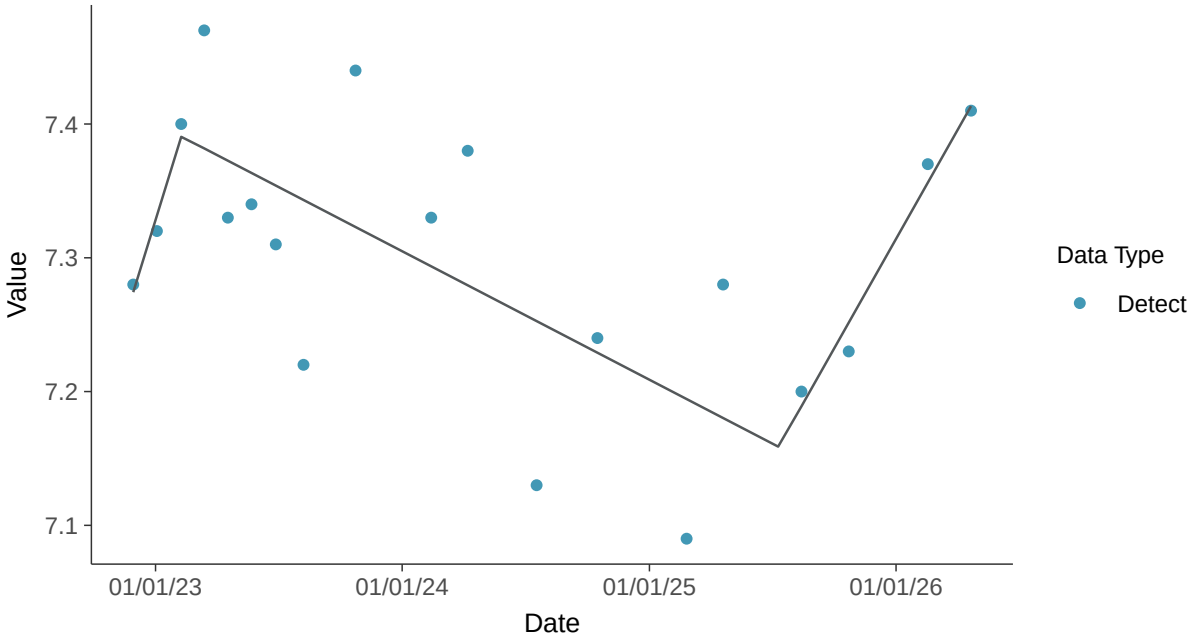
Trend Regression: Piecewise Linear-Linear

pH (field), MW-11 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-11 (su)

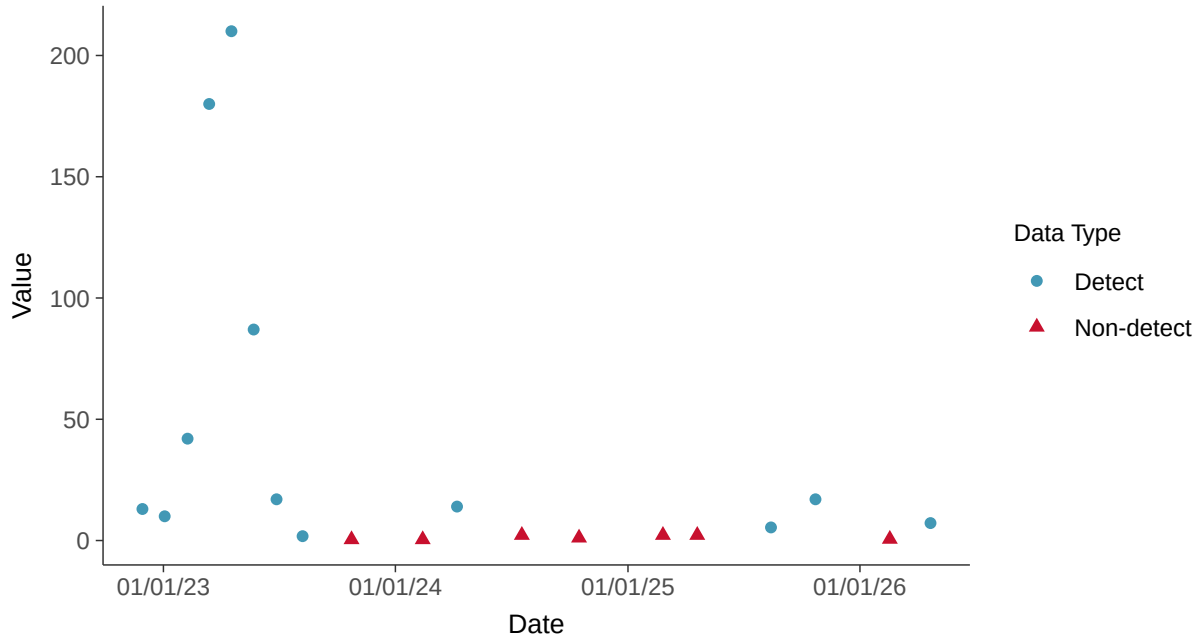


Appendix III: Sulfate (as SO4), MW-11

ID: 21_2_3_124

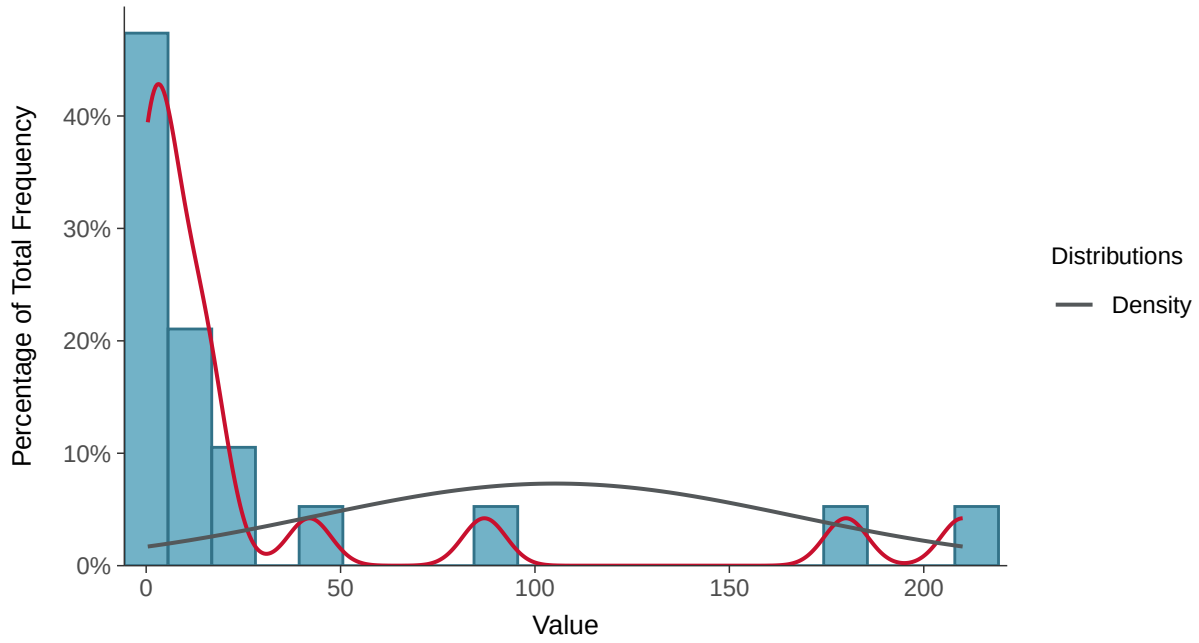
Scatter Plot

Sulfate (as SO4), MW-11 (mg/L)



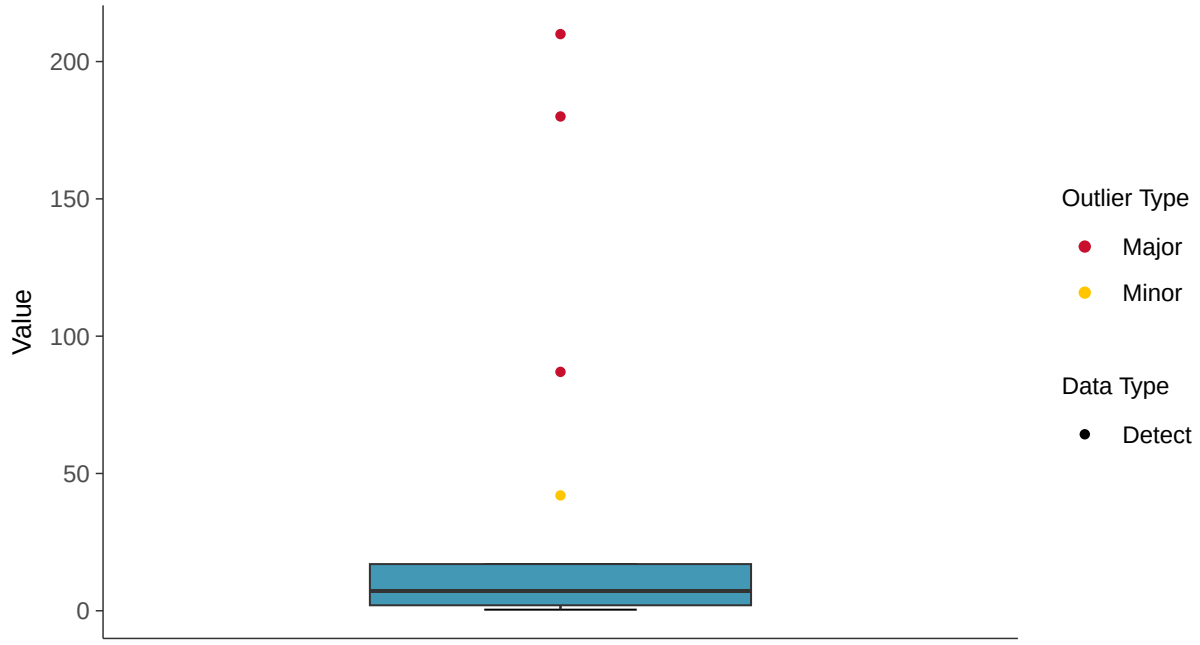
Histogram

Sulfate (as SO4), MW-11 (mg/L)



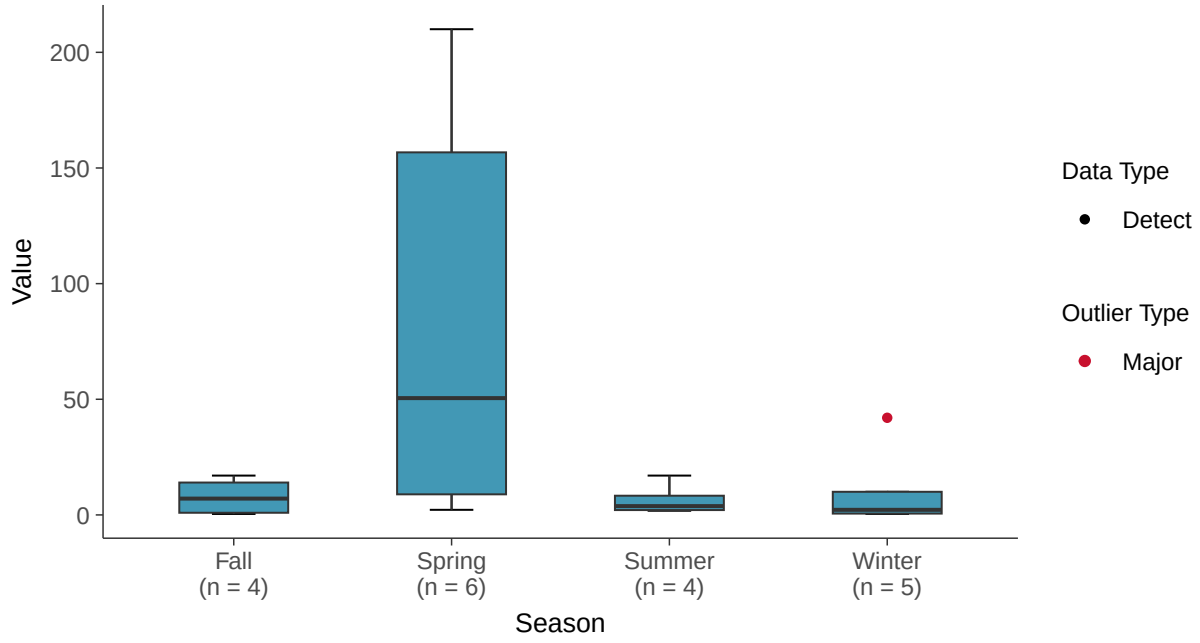
Boxplot

Sulfate (as SO4), MW-11 (mg/L)



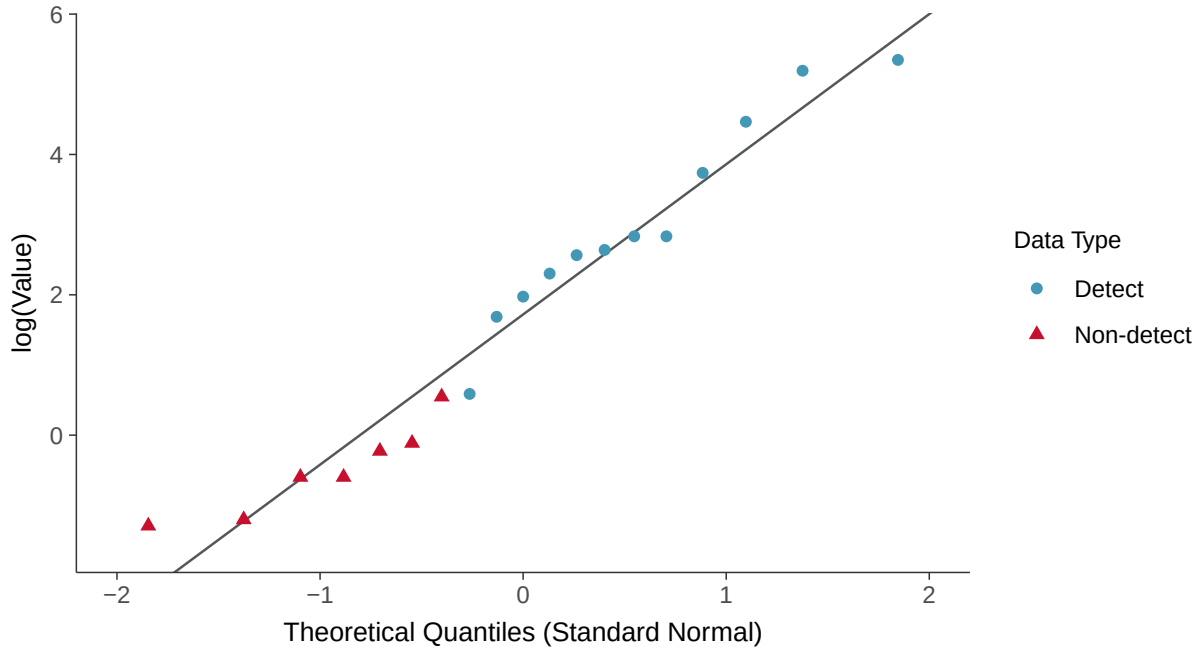
Boxplot by Season

Sulfate (as SO4), MW-11 (mg/L)



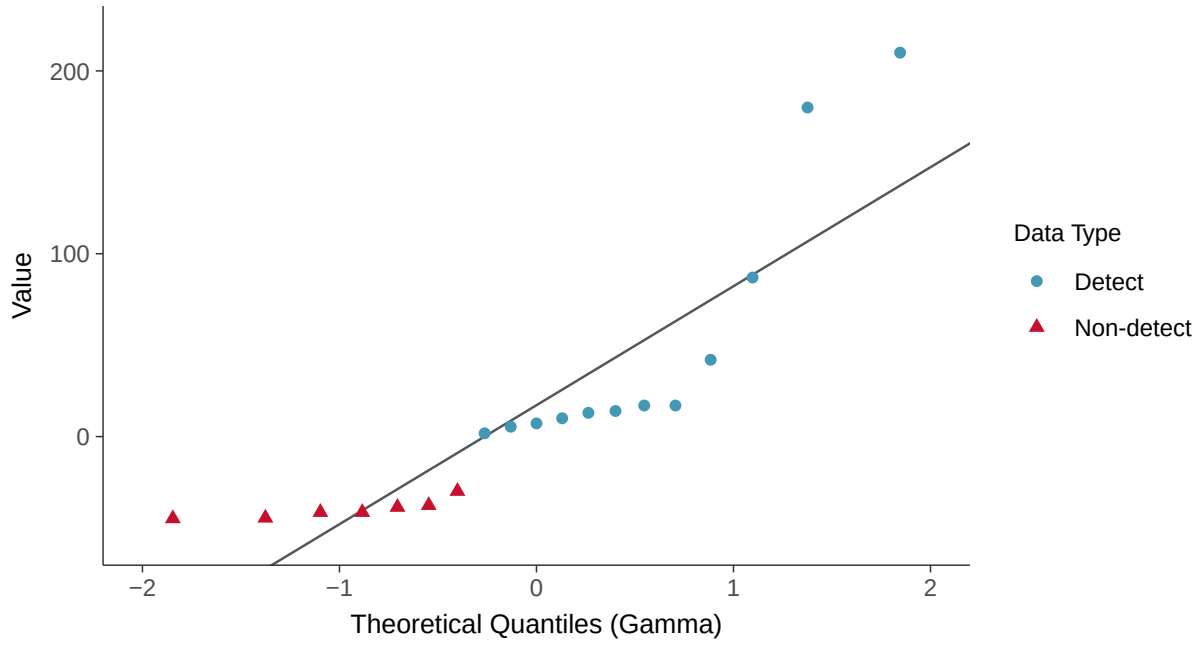
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-11 (mg/L)



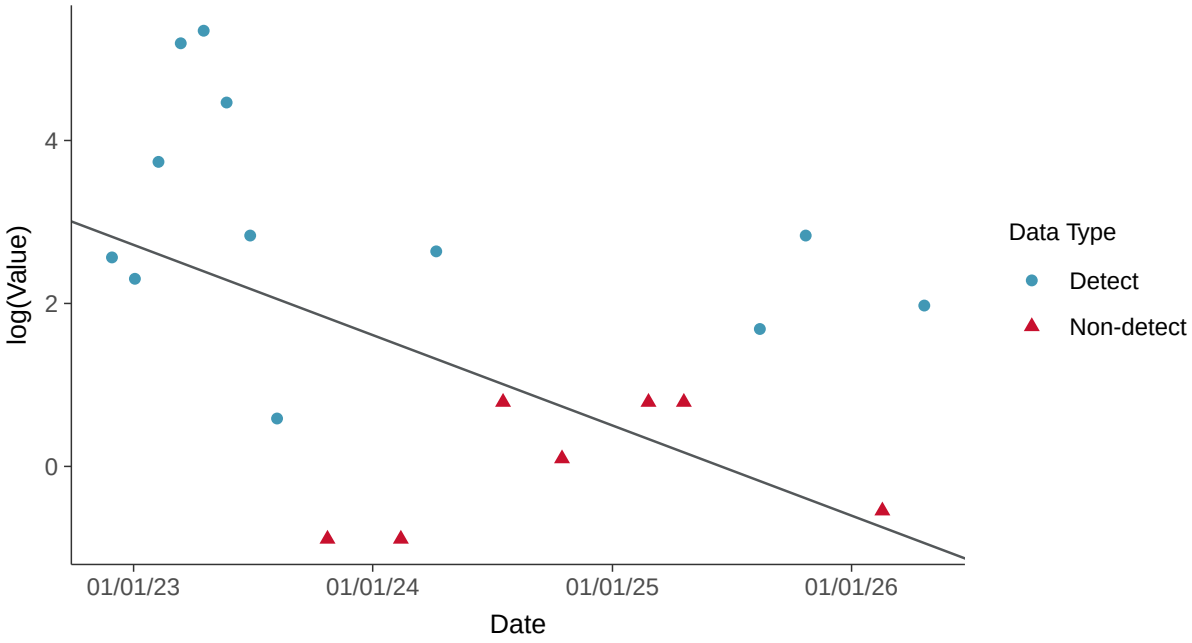
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-11 (mg/L)



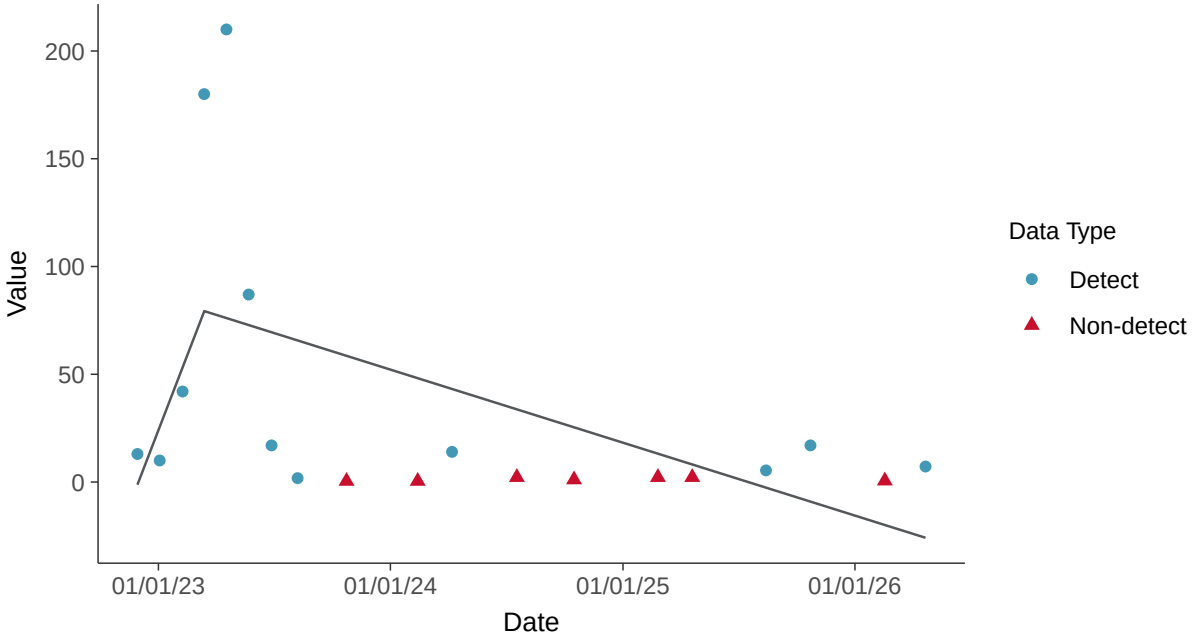
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-11 (mg/L)



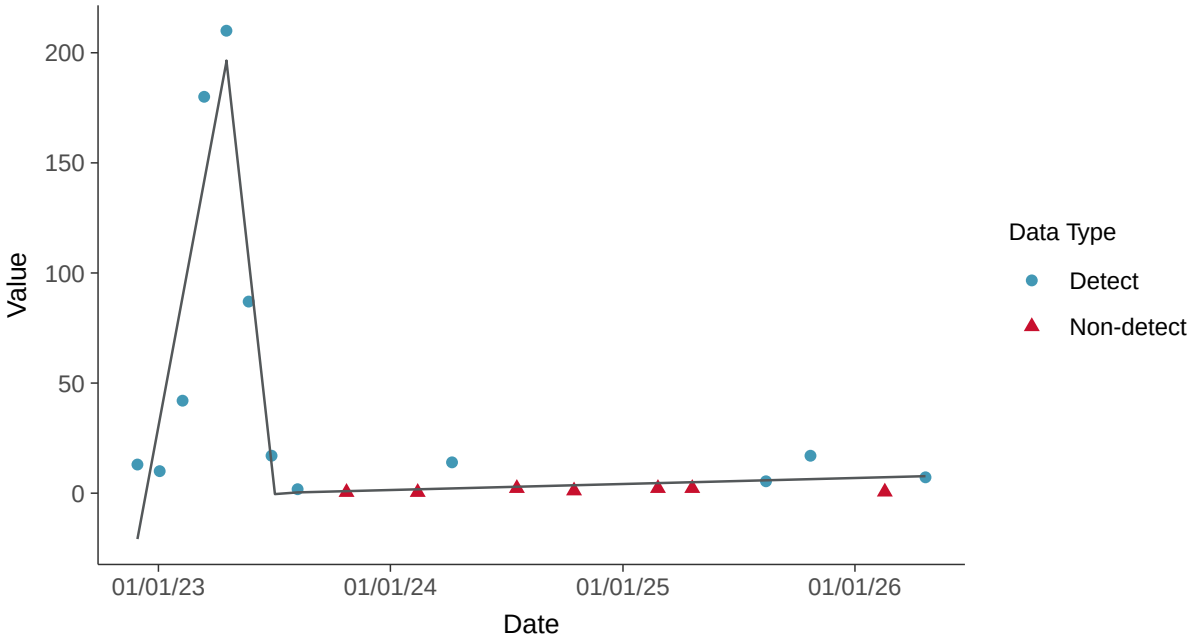
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-11 (mg/L)

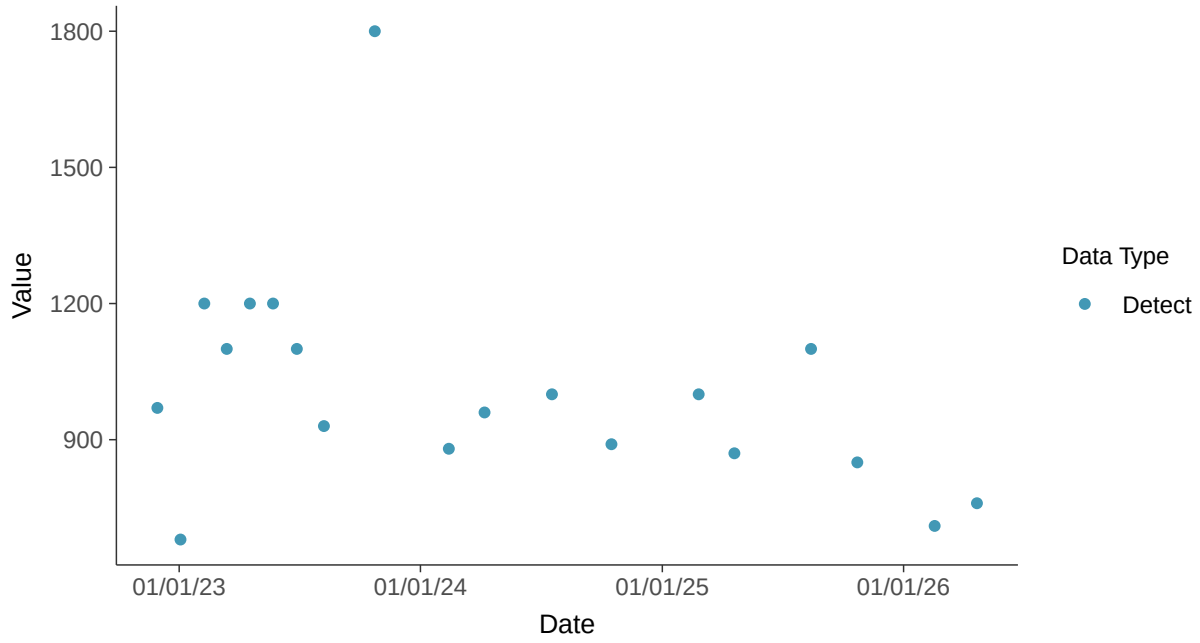


Appendix III: Total Dissolved Solids, MW-11

ID: 21_2_3_126

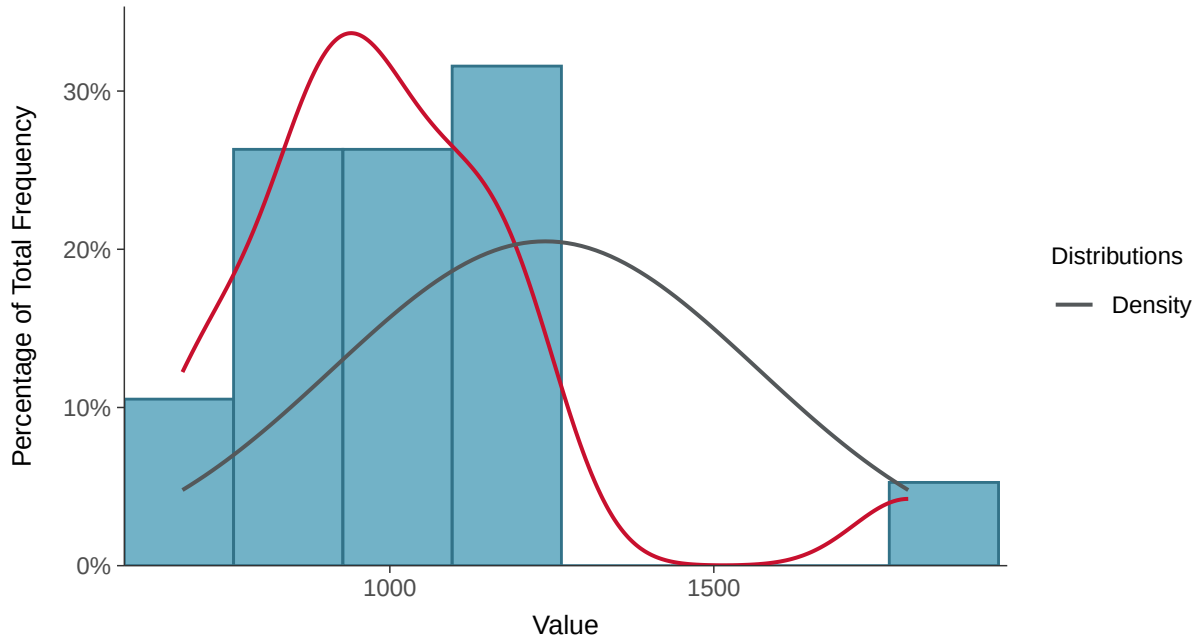
Scatter Plot

Total Dissolved Solids, MW-11 (mg/L)



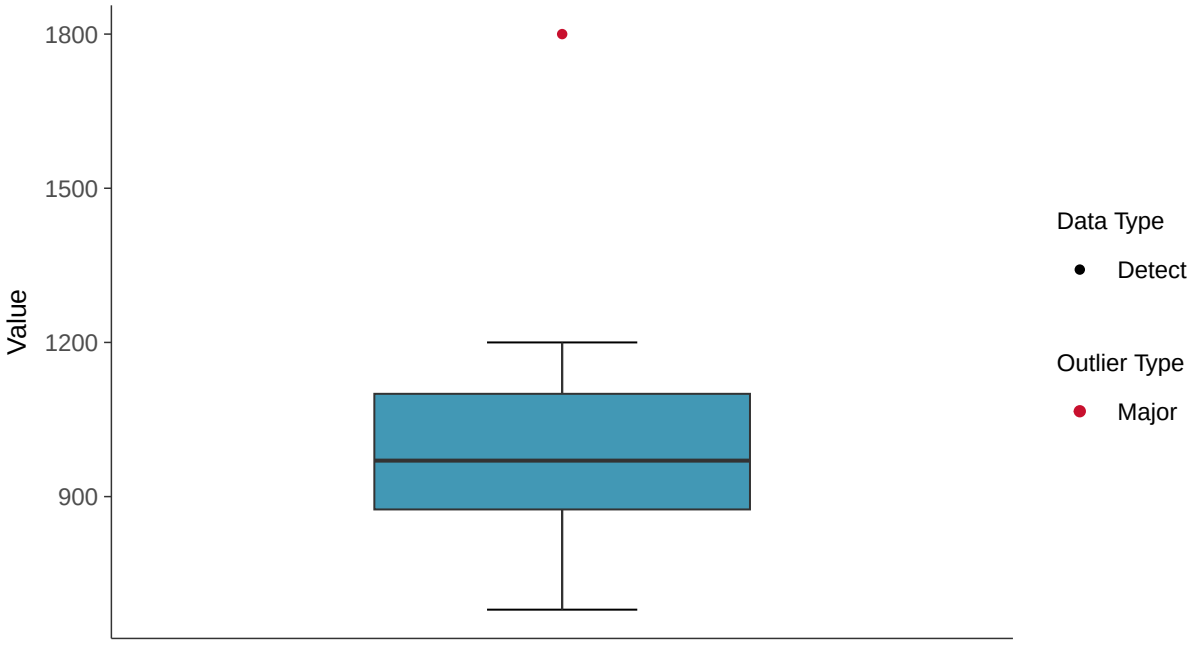
Histogram

Total Dissolved Solids, MW-11 (mg/L)



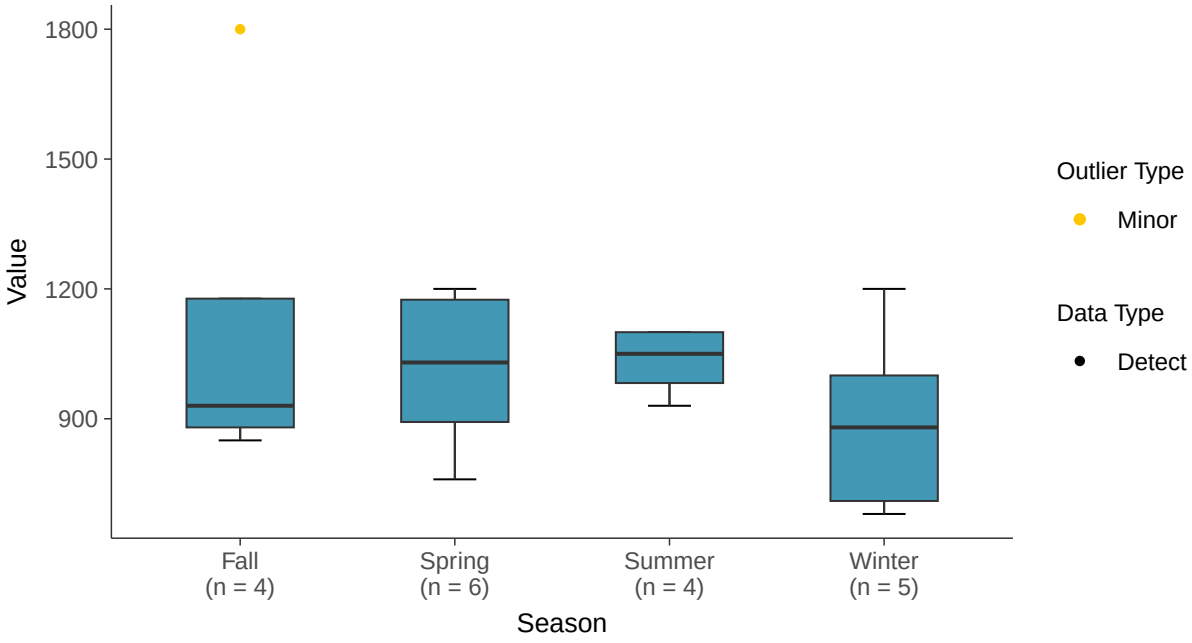
Boxplot

Total Dissolved Solids, MW-11 (mg/L)



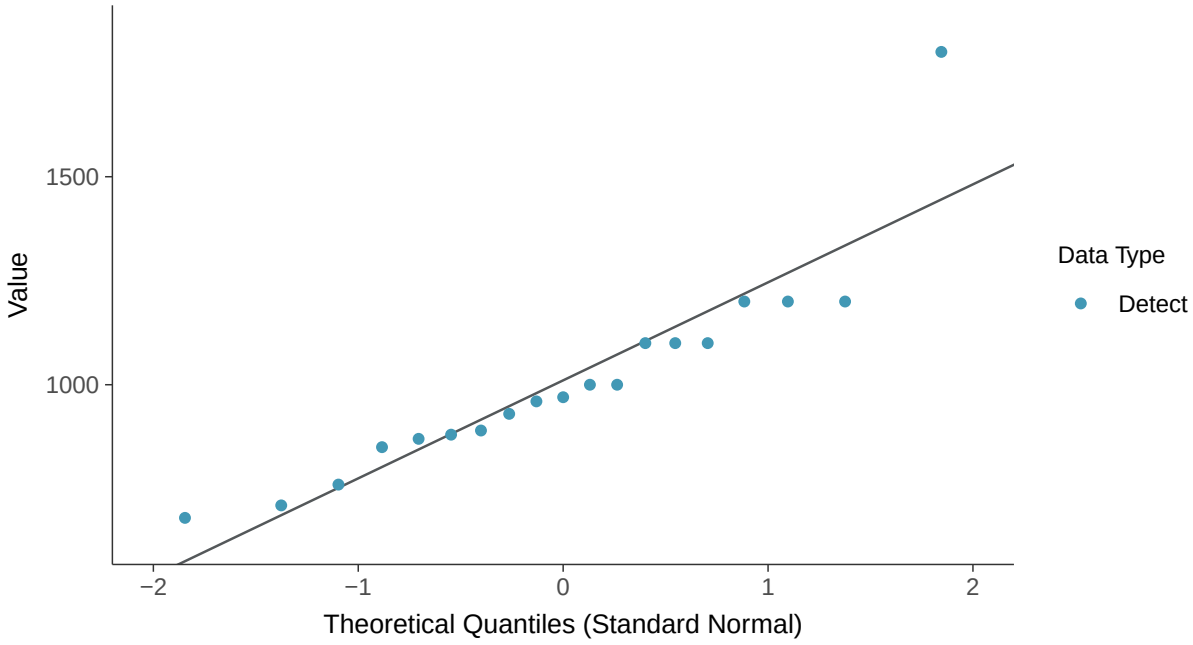
Boxplot by Season

Total Dissolved Solids, MW-11 (mg/L)



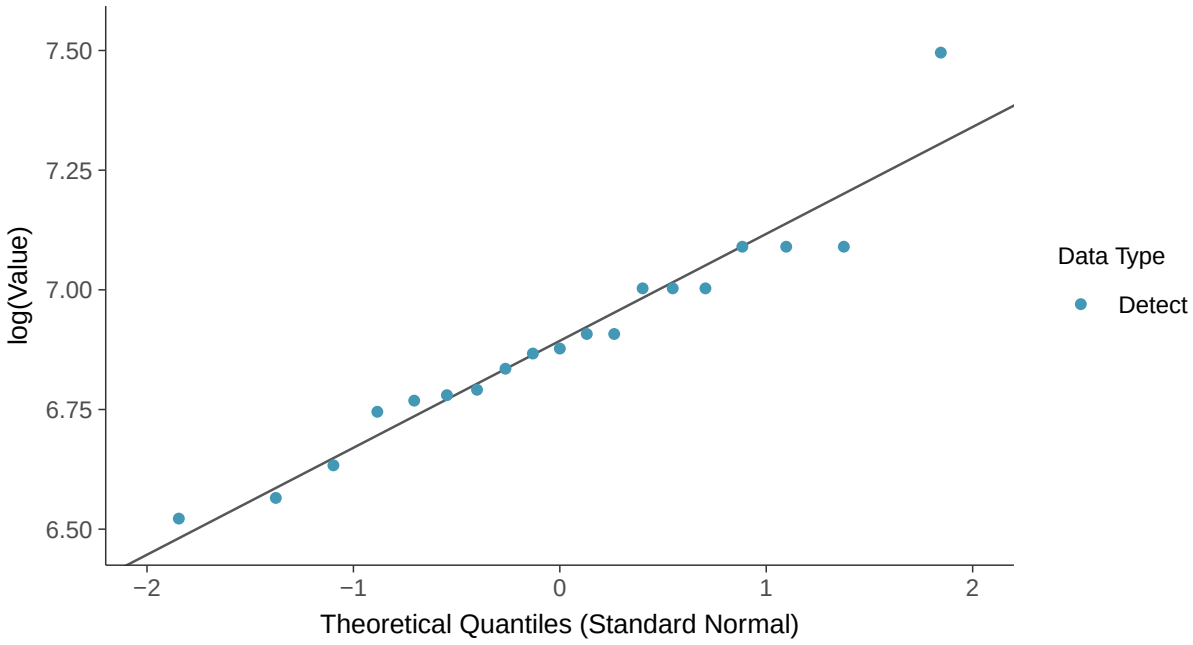
Normal Q-Q plot

Total Dissolved Solids, MW-11 (mg/L)



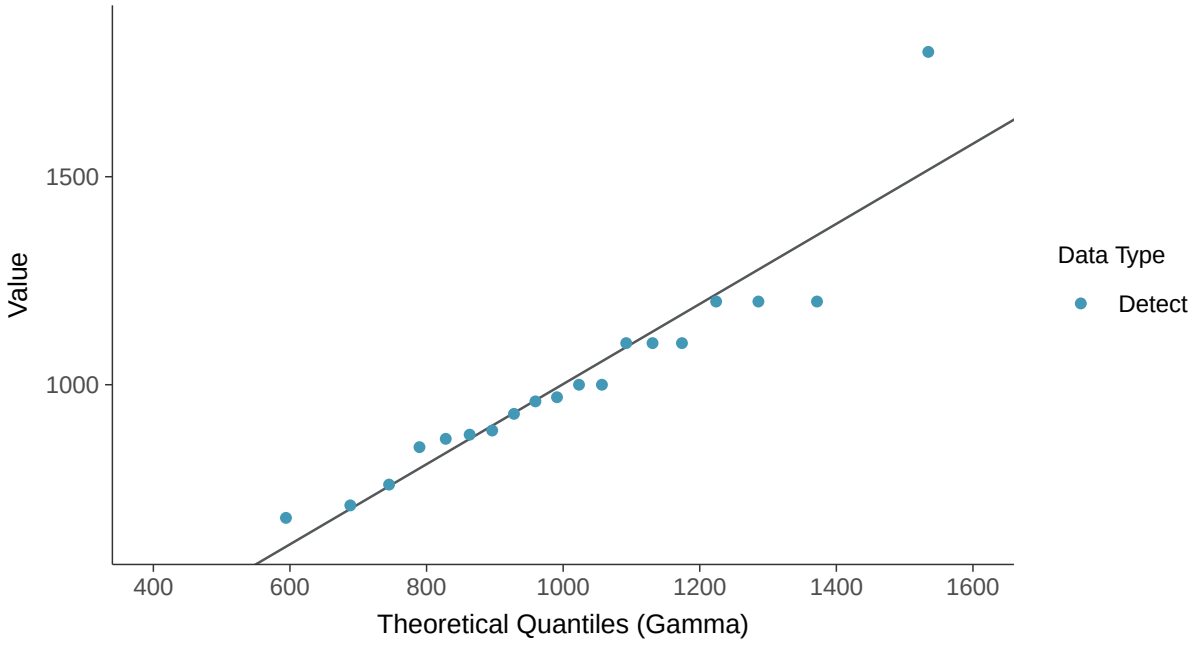
Lognormal Q-Q plot

Total Dissolved Solids, MW-11 (mg/L)



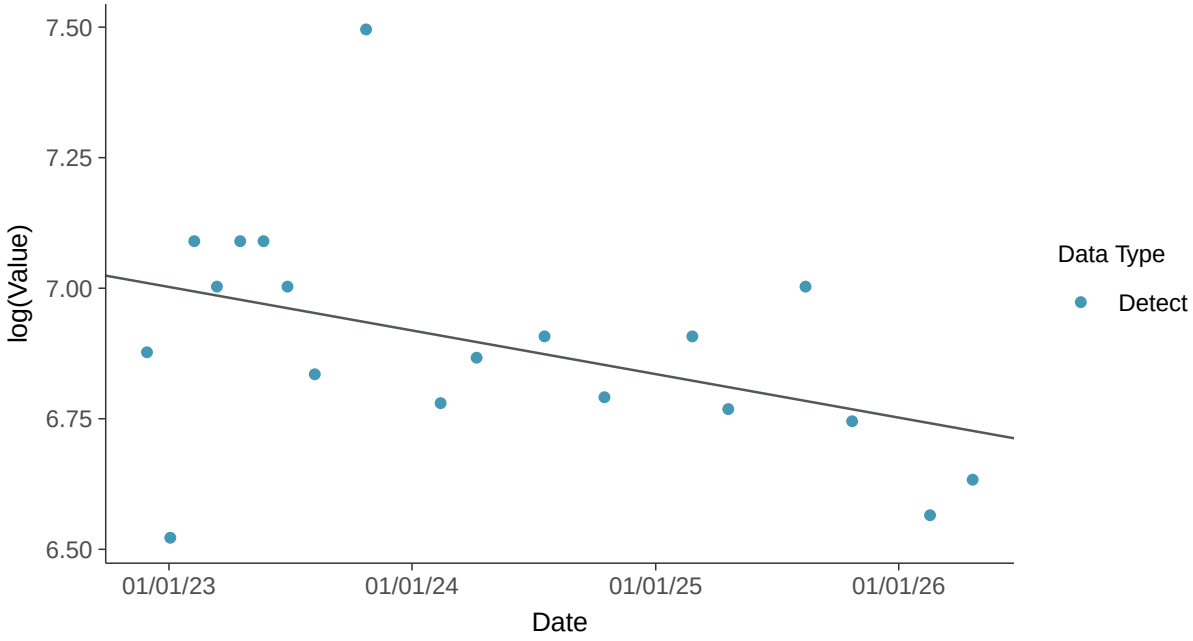
Gamma Q-Q plot

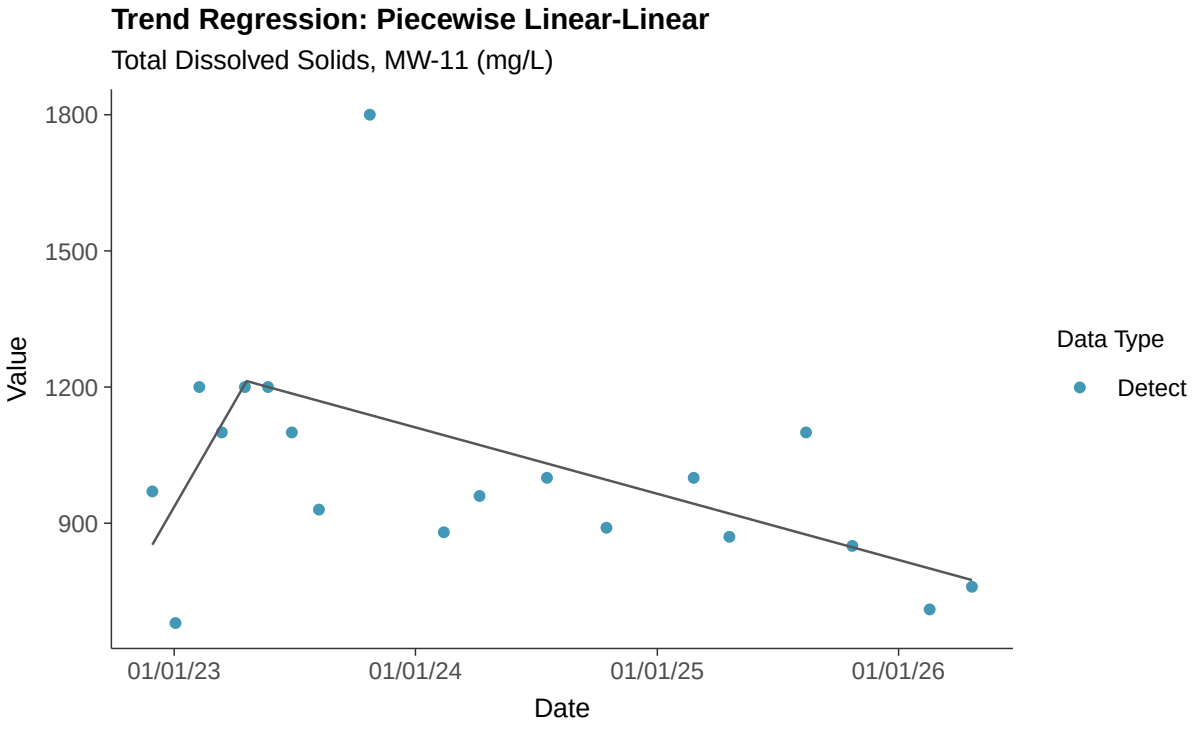
Total Dissolved Solids, MW-11 (mg/L)



Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-11 (mg/L)



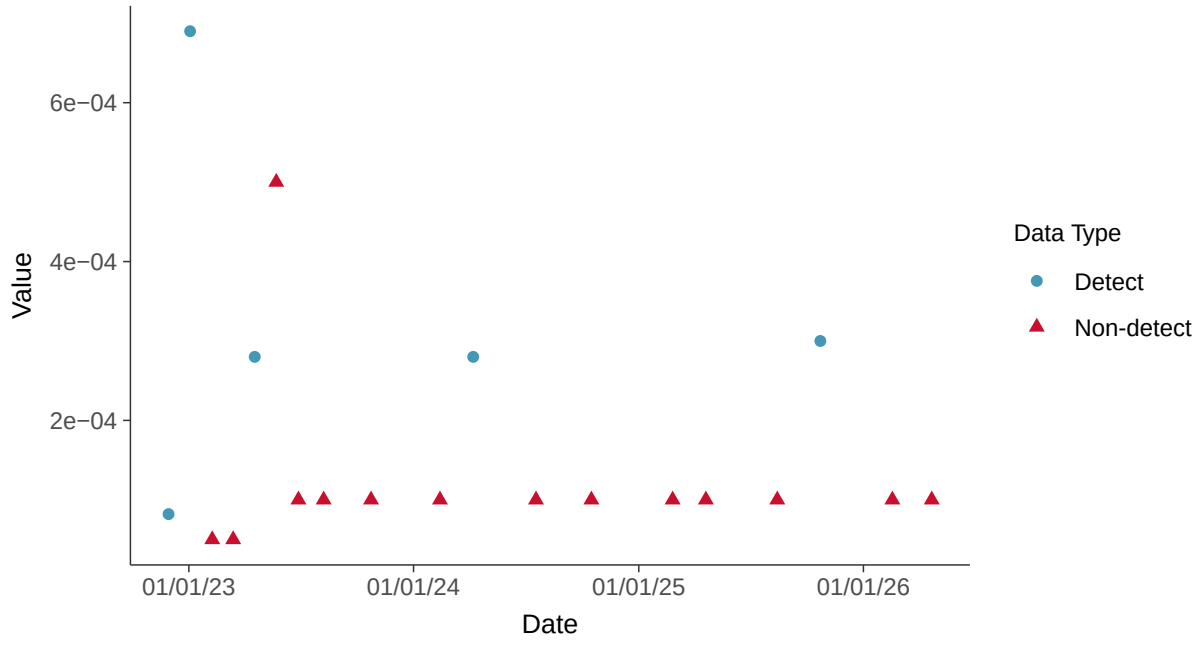

Trend Regression: Piecewise Linear-Linear
Total Dissolved Solids, MW-11 (mg/L)
1800
1500
1200
900
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Antimony, MW-11

ID: 21_2_4_101

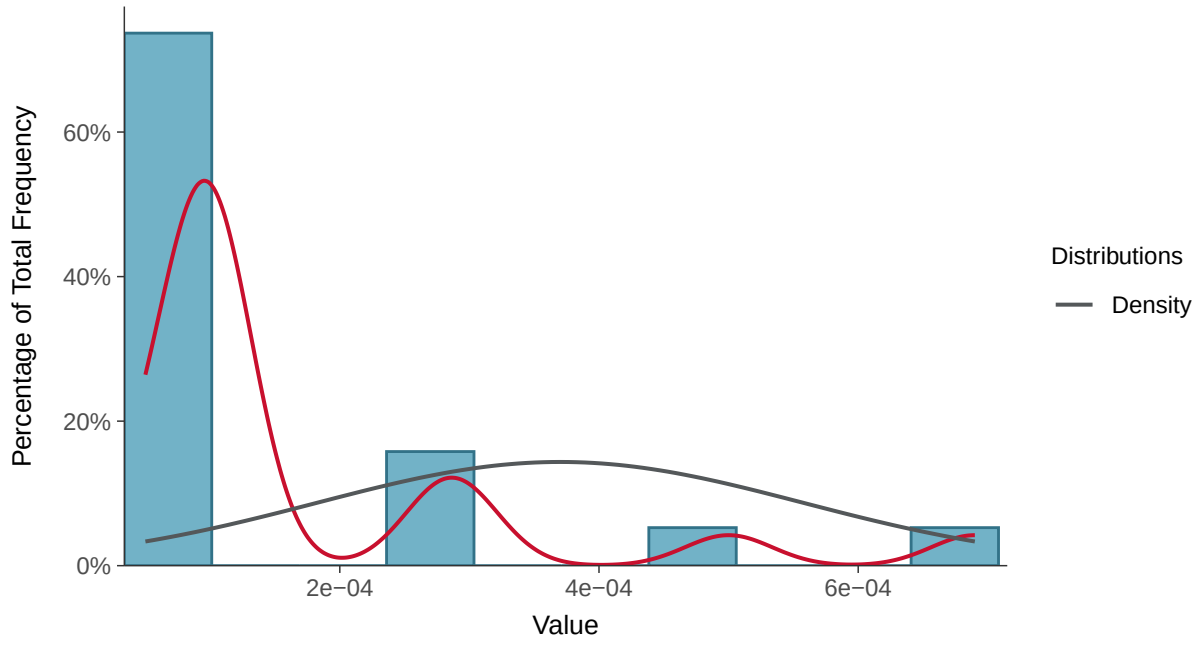
Scatter Plot

Antimony, MW-11 (mg/L)



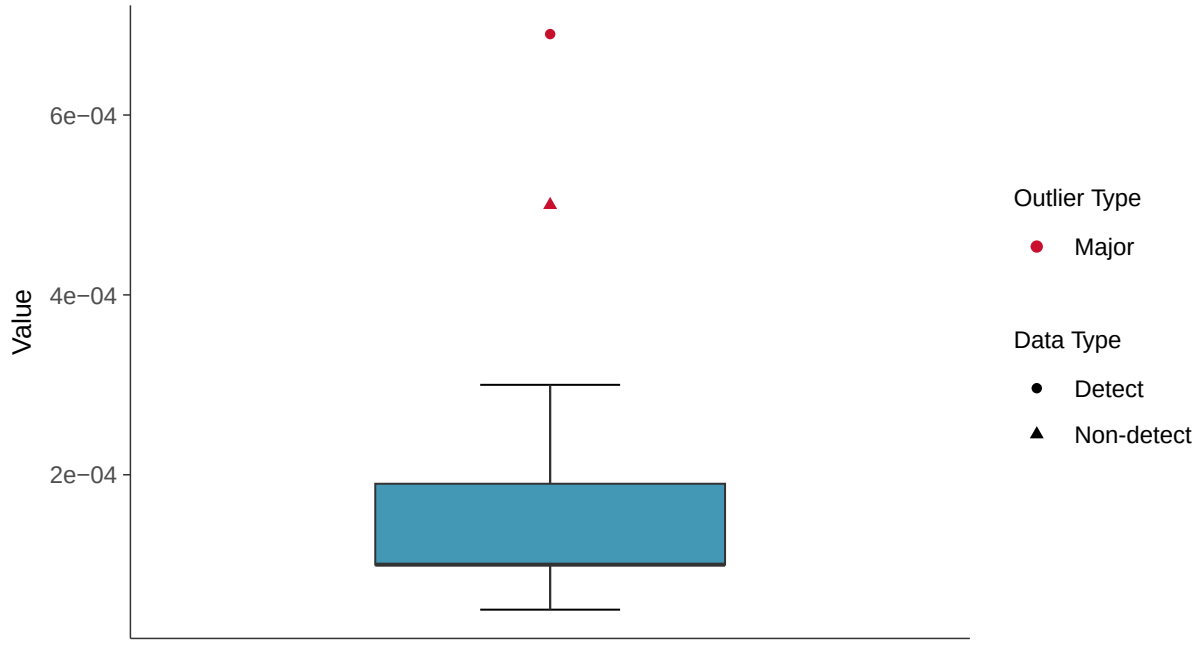
Histogram

Antimony, MW-11 (mg/L)



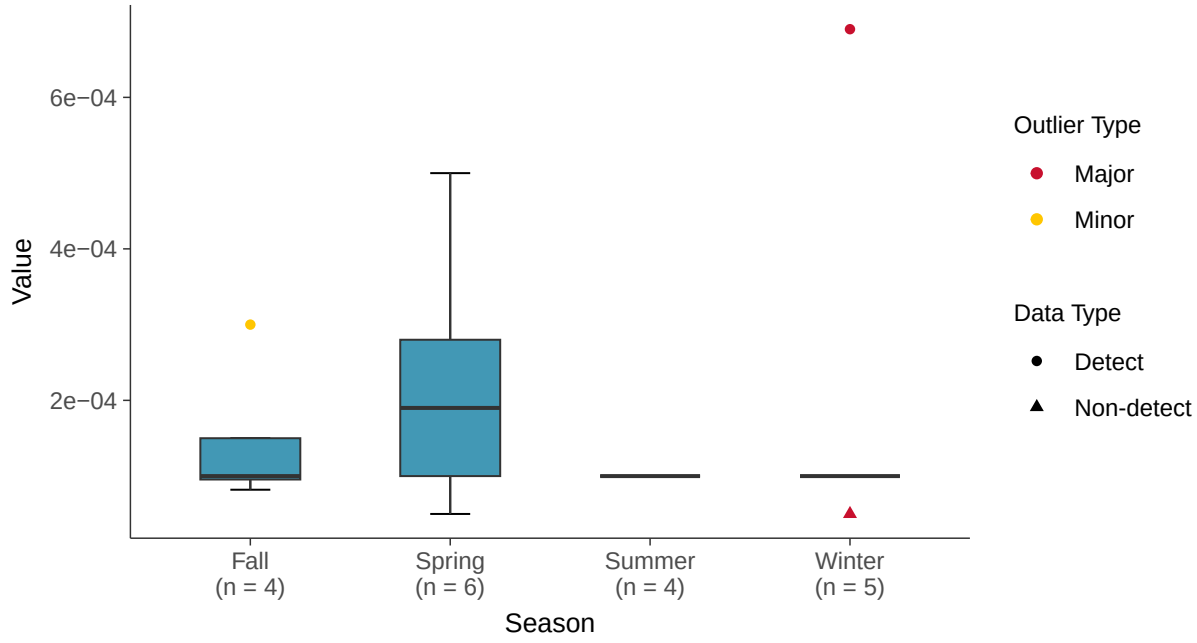
Boxplot

Antimony, MW-11 (mg/L)



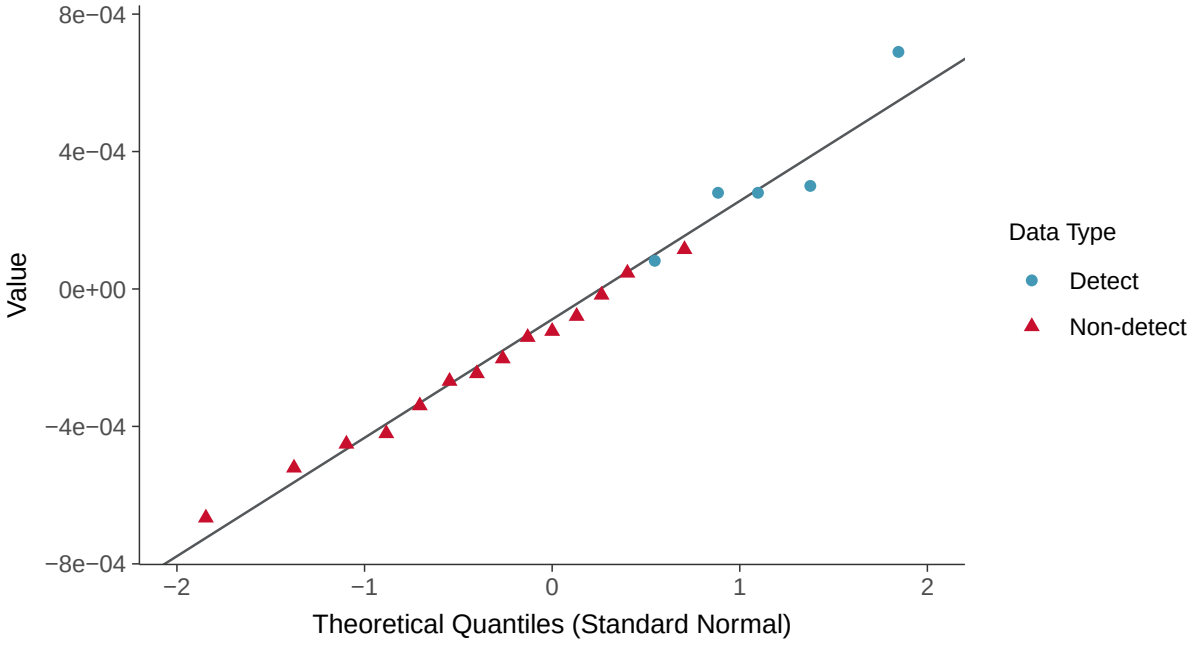
Boxplot by Season

Antimony, MW-11 (mg/L)



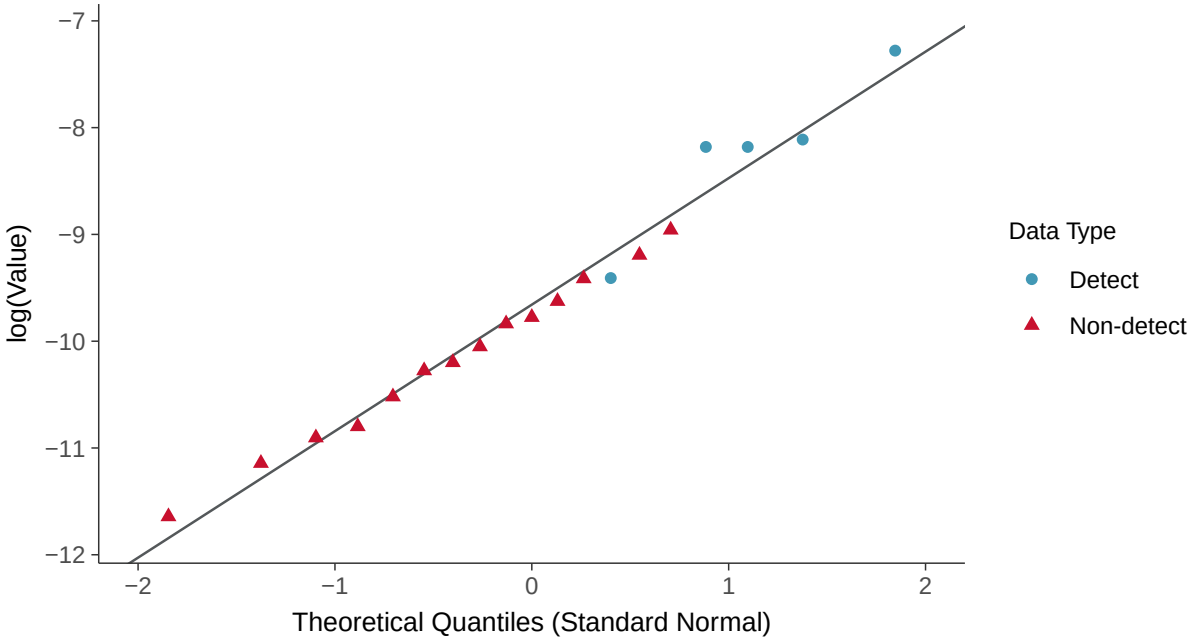
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-11 (mg/L)



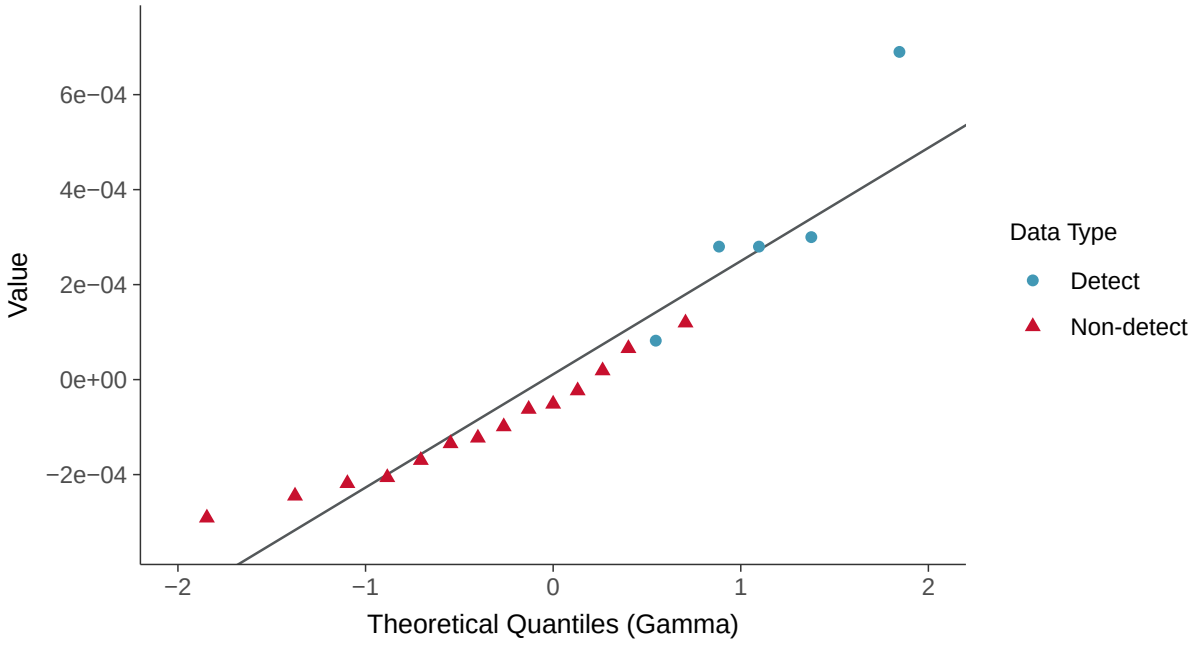
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-11 (mg/L)



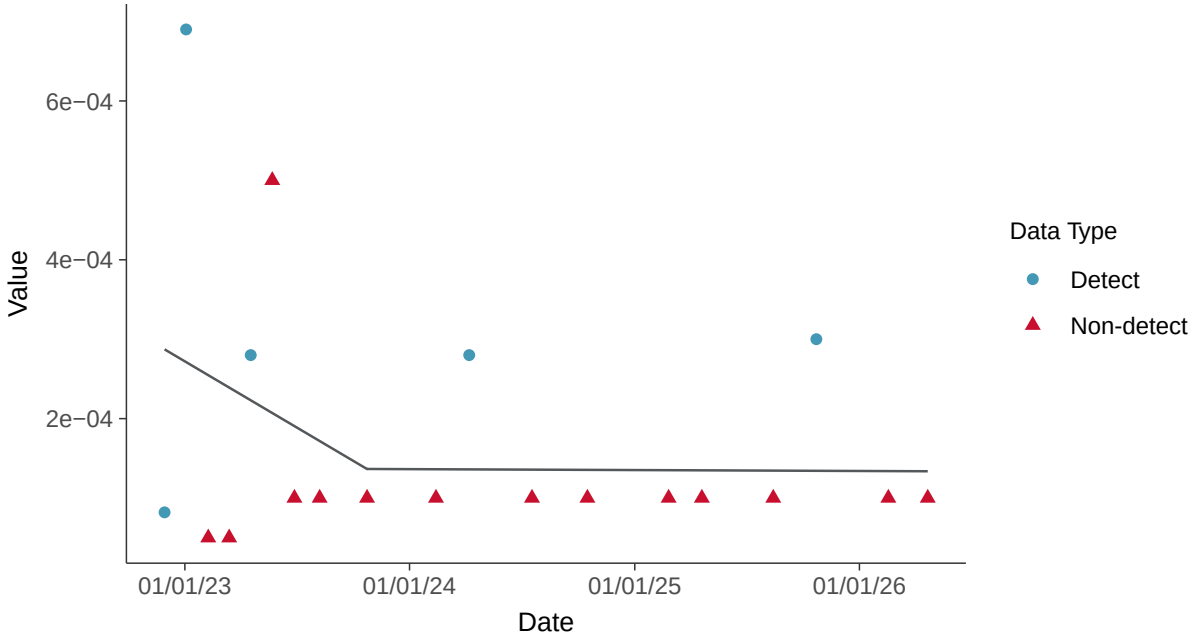
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-11 (mg/L)



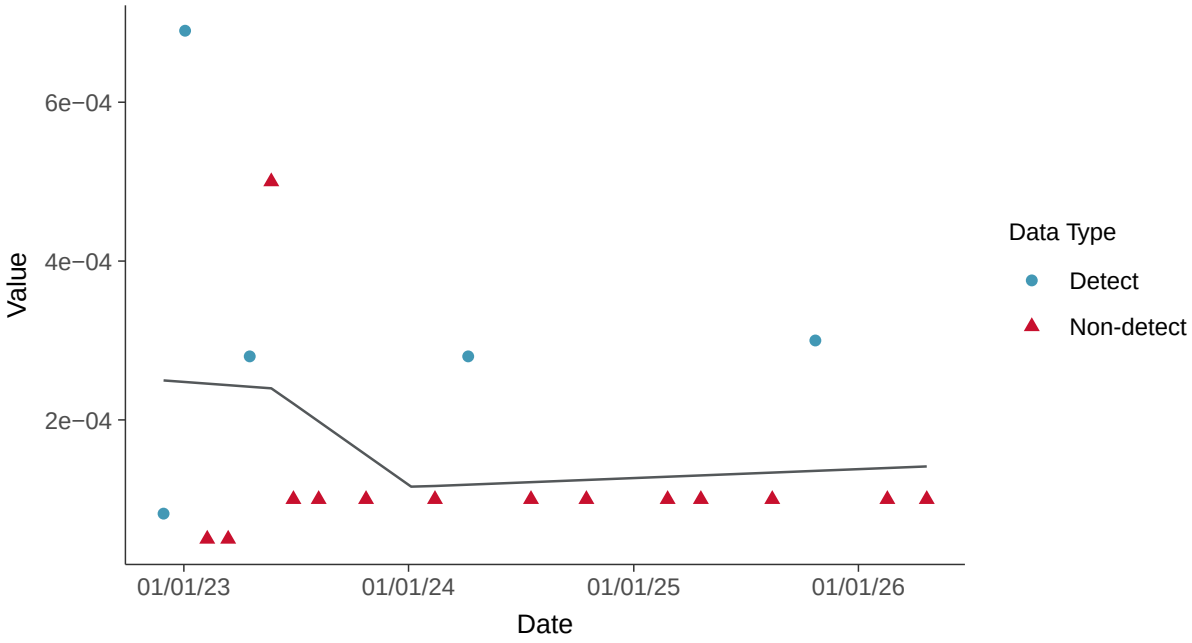
Trend Regression: Piecewise Linear-Linear

Antimony, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-11 (mg/L)

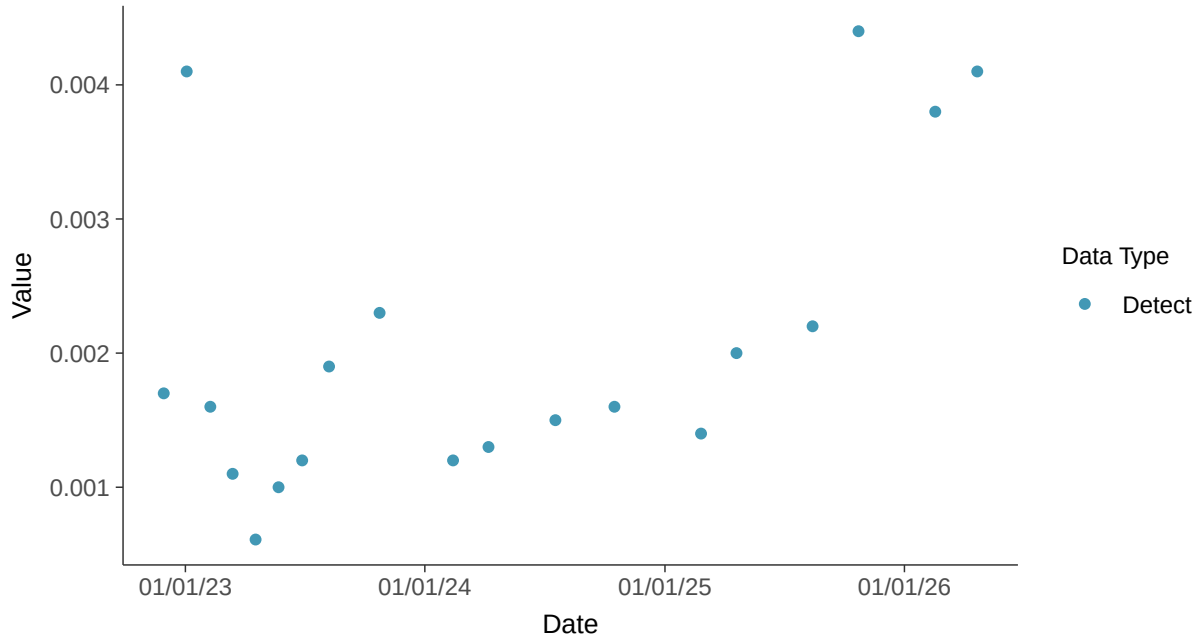


Appendix IV: Arsenic, MW-11

ID: 21_2_4_102

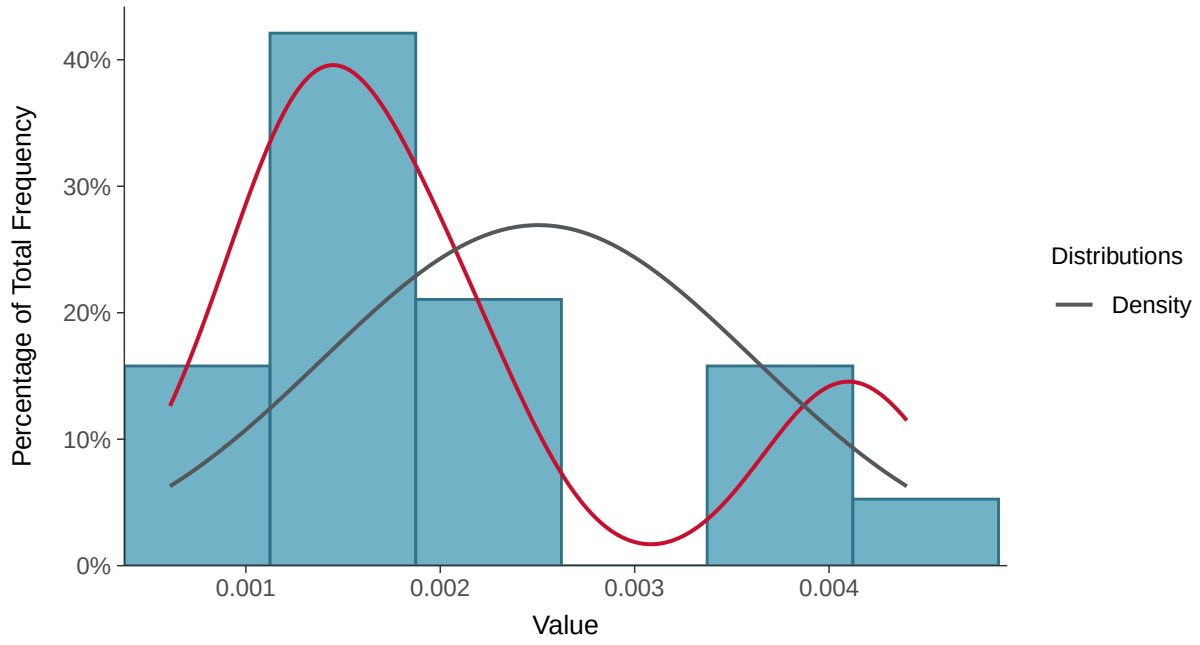
Scatter Plot

Arsenic, MW-11 (mg/L)



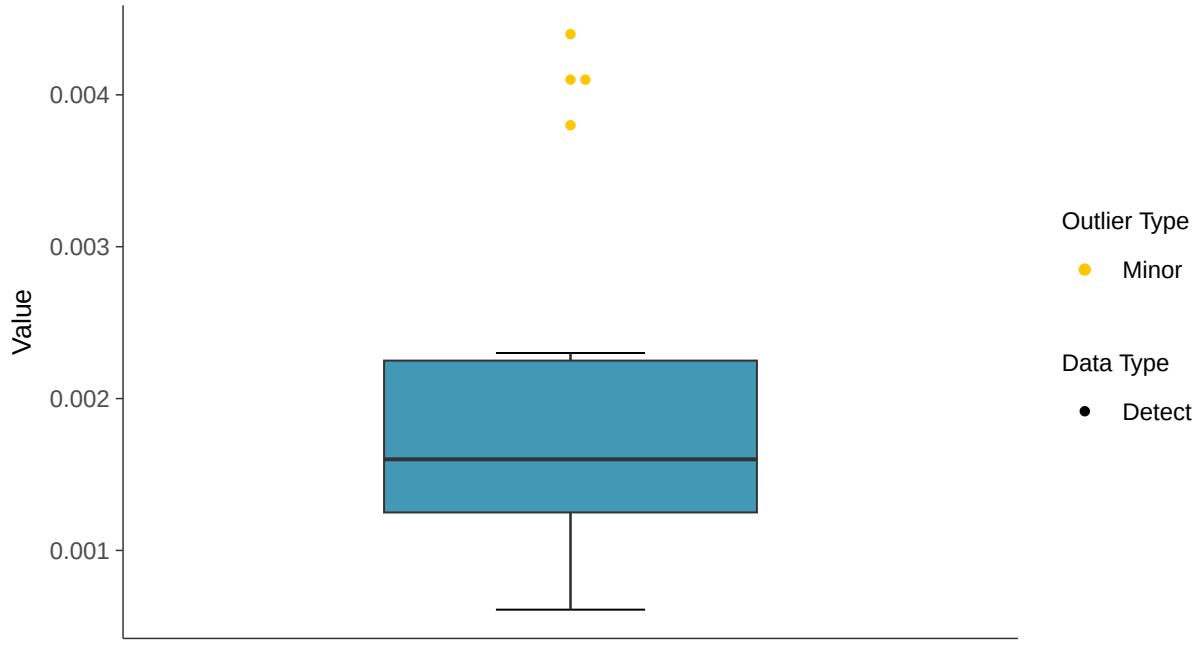
Histogram

Arsenic, MW-11 (mg/L)



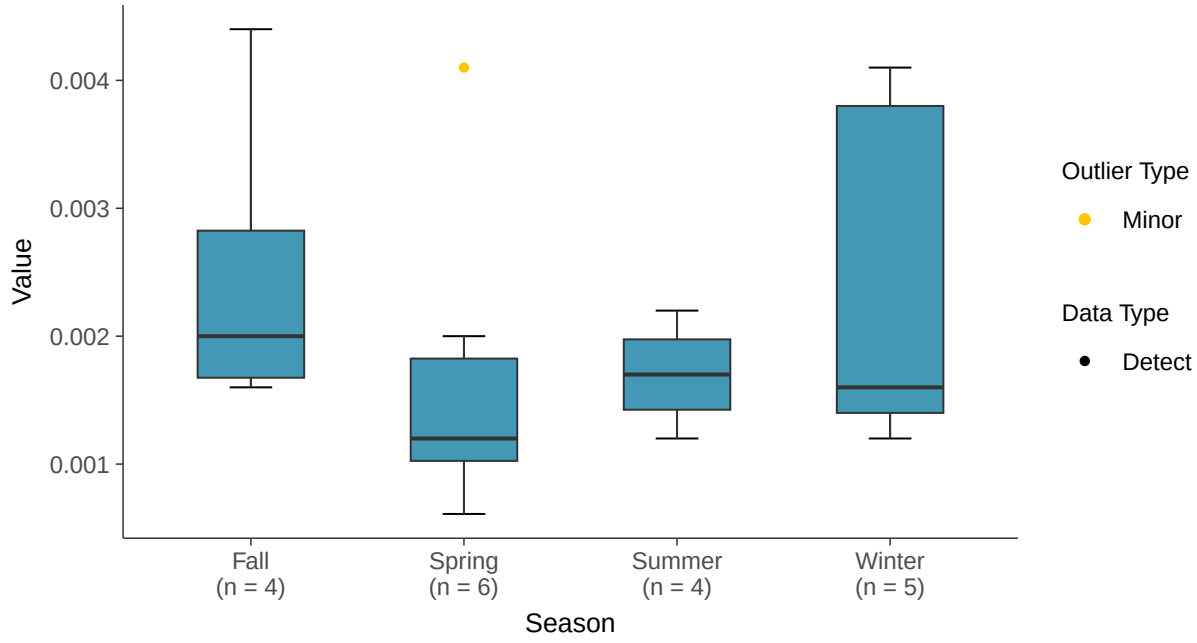
Boxplot

Arsenic, MW-11 (mg/L)



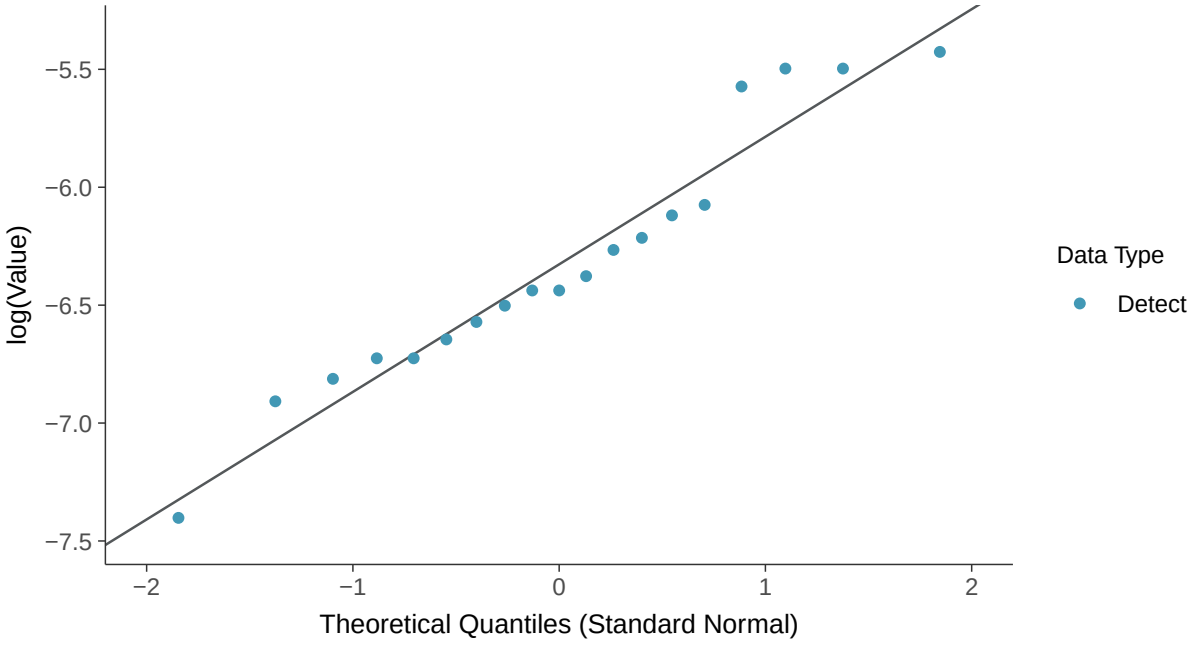
Boxplot by Season

Arsenic, MW-11 (mg/L)



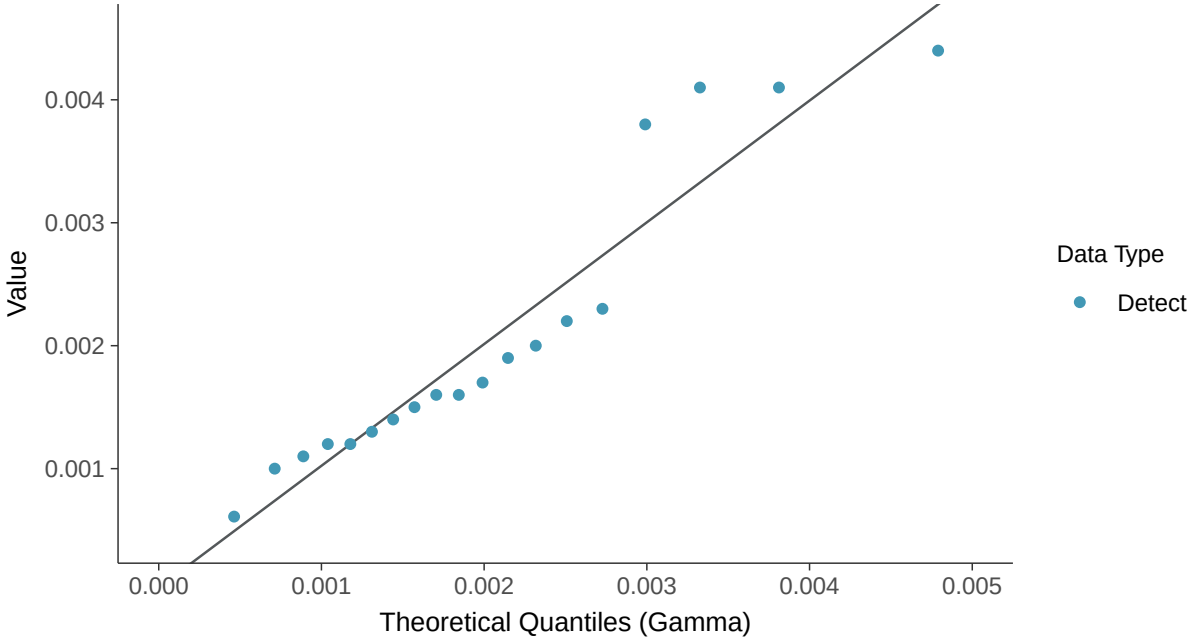
Lognormal Q-Q plot

Arsenic, MW-11 (mg/L)



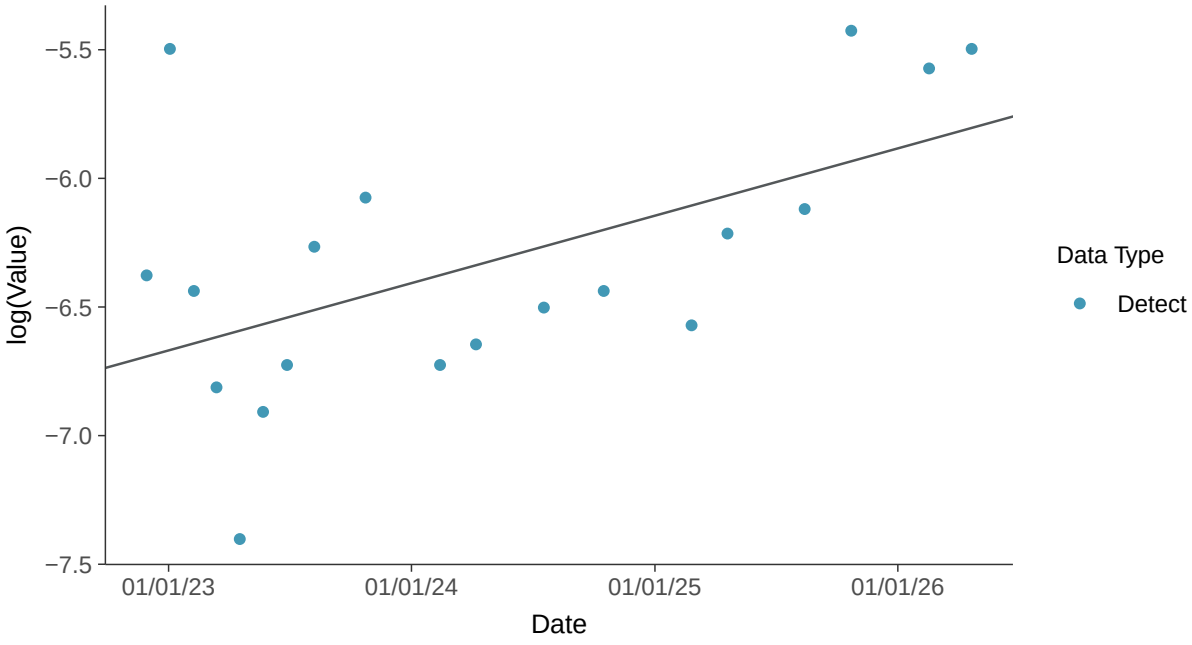
Gamma Q-Q plot

Arsenic, MW-11 (mg/L)



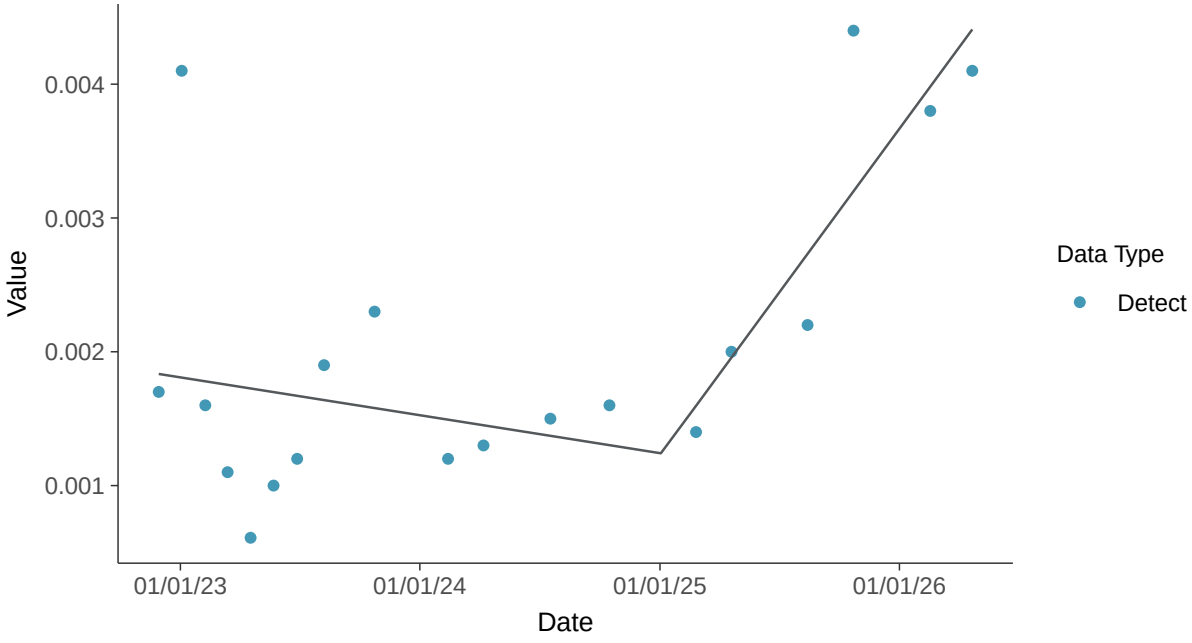
Trend Regression: Lognormal MLE

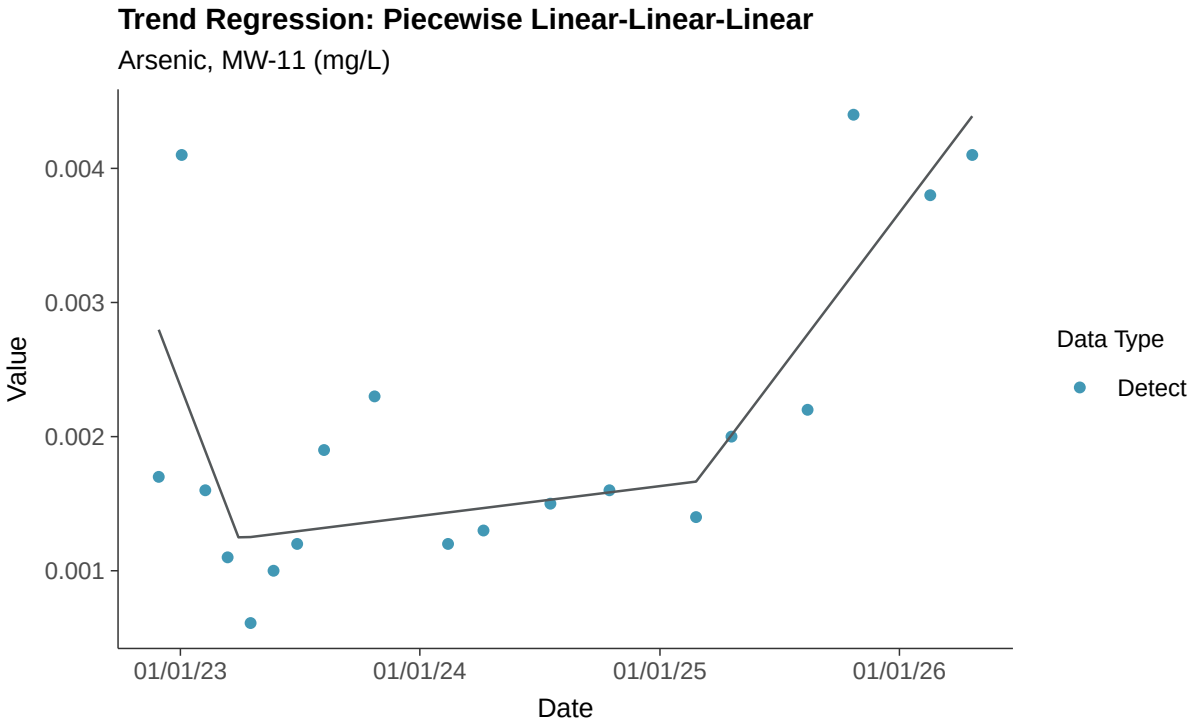
Arsenic, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-11 (mg/L)



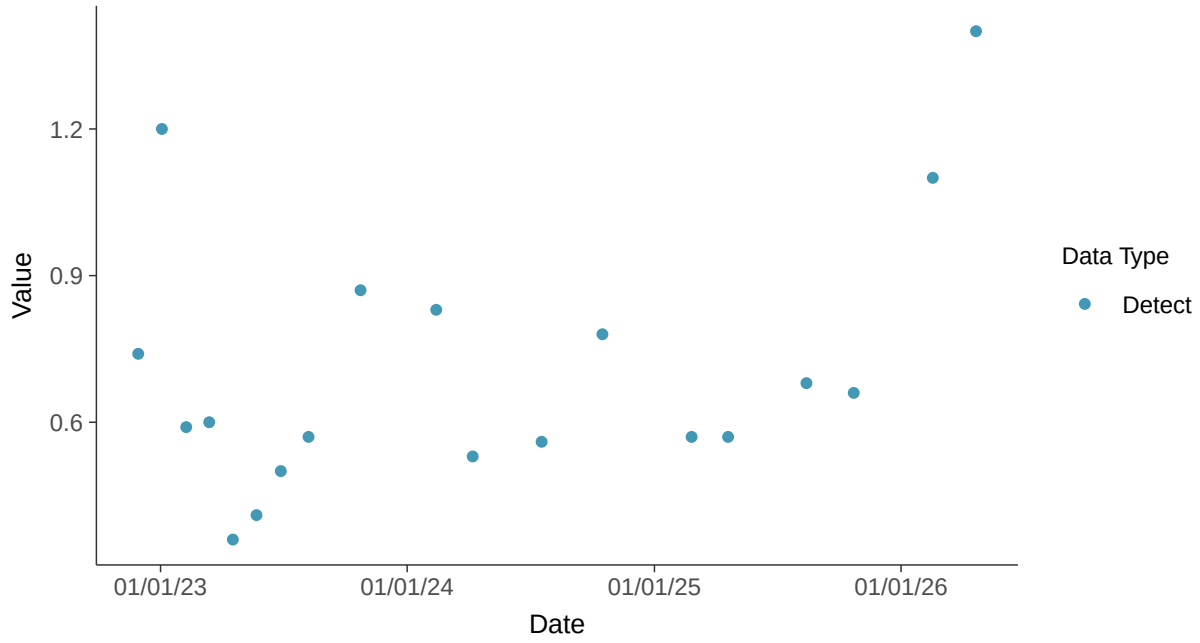

Trend Regression: Piecewise Linear-Linear-Linear
Arsenic, MW-11 (mg/L)
Value
0.004
0.003
0.002
0.001
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Barium, MW-11

ID: 21_2_4_103

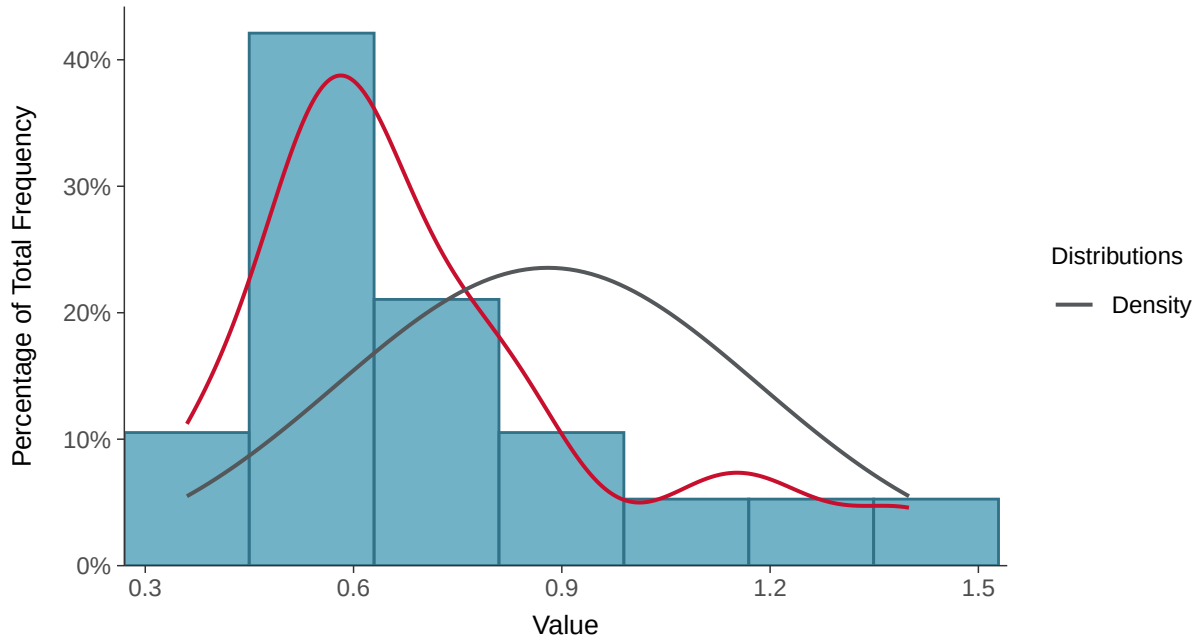
Scatter Plot

Barium, MW-11 (mg/L)



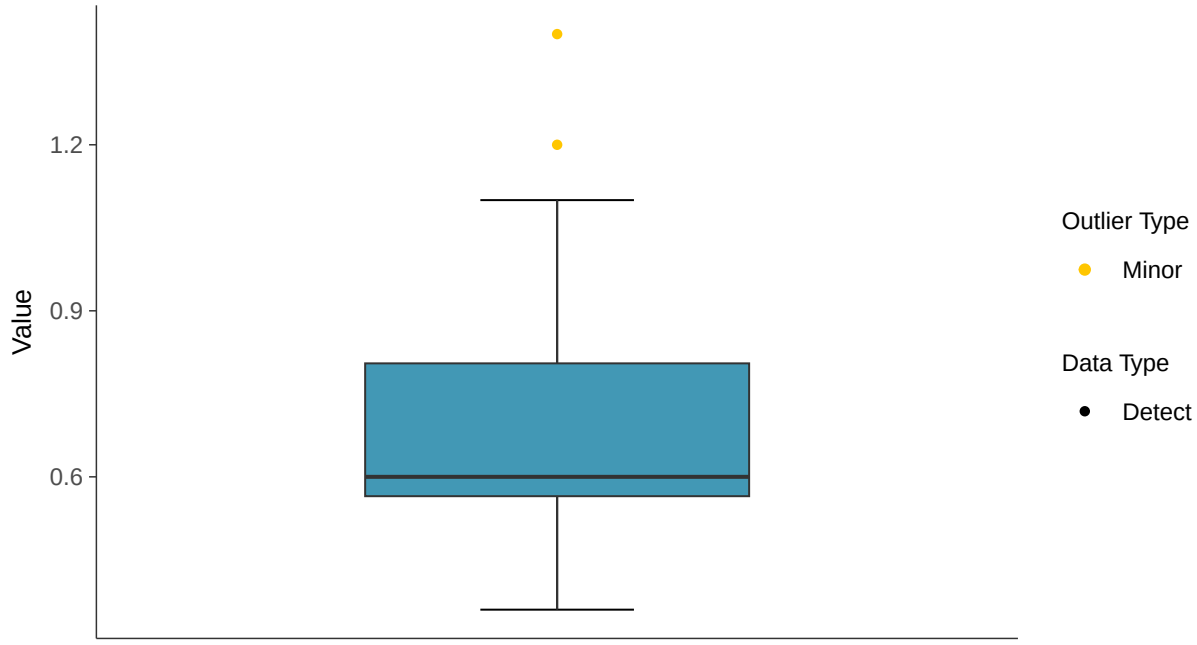
Histogram

Barium, MW-11 (mg/L)



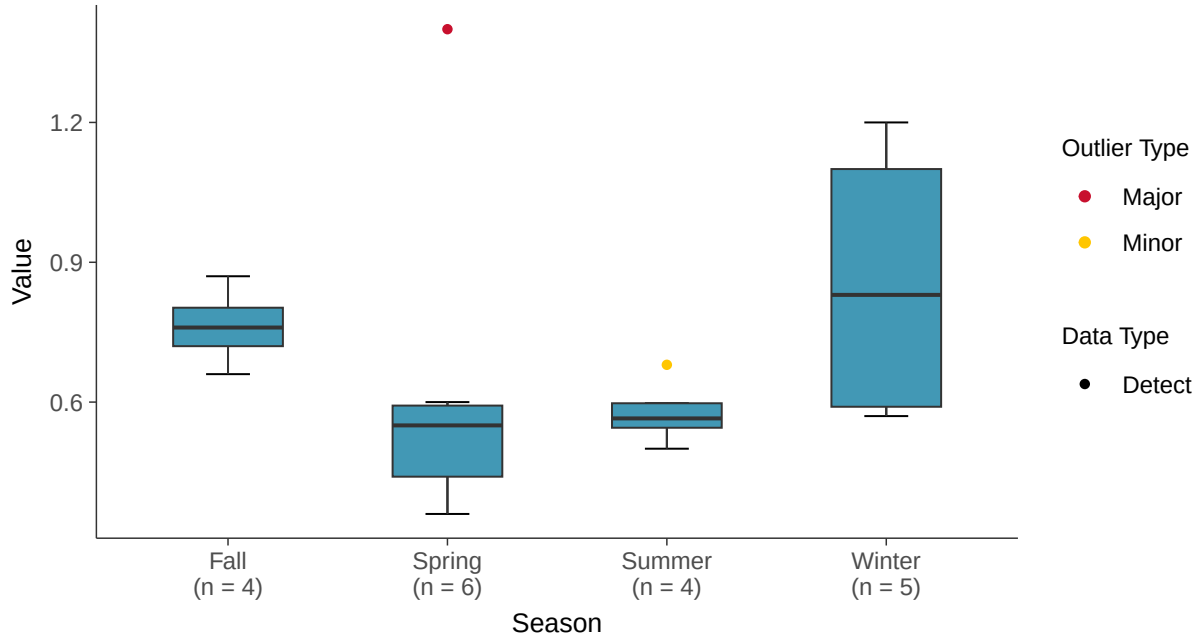
Boxplot

Barium, MW-11 (mg/L)



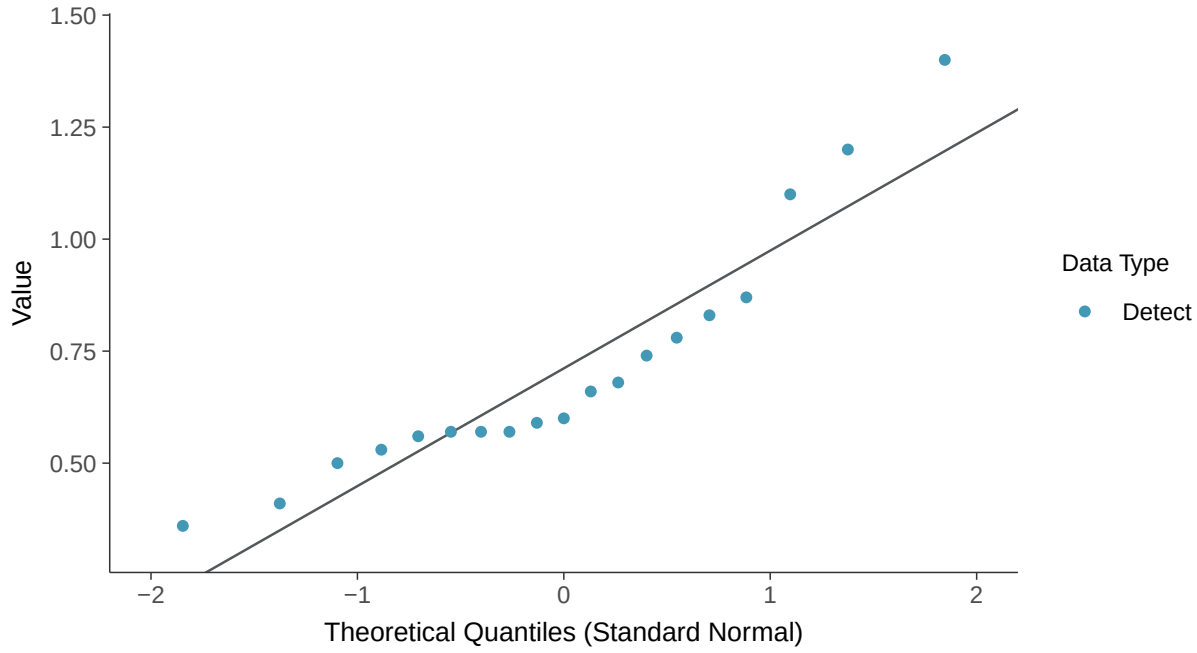
Boxplot by Season

Barium, MW-11 (mg/L)



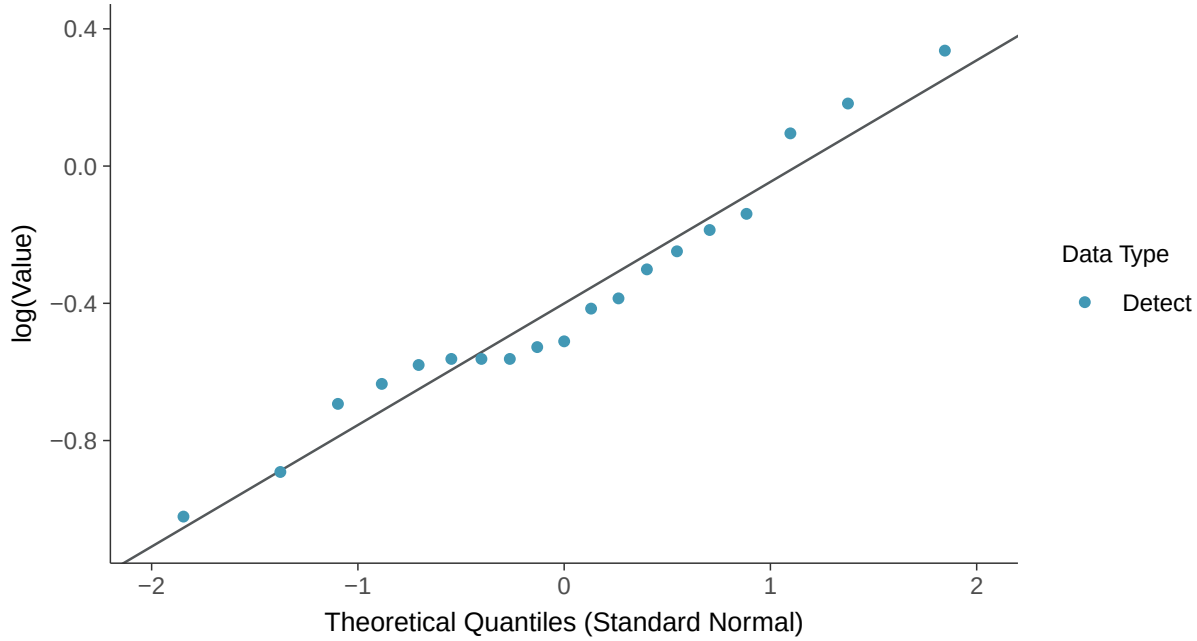
Normal Q-Q plot

Barium, MW-11 (mg/L)



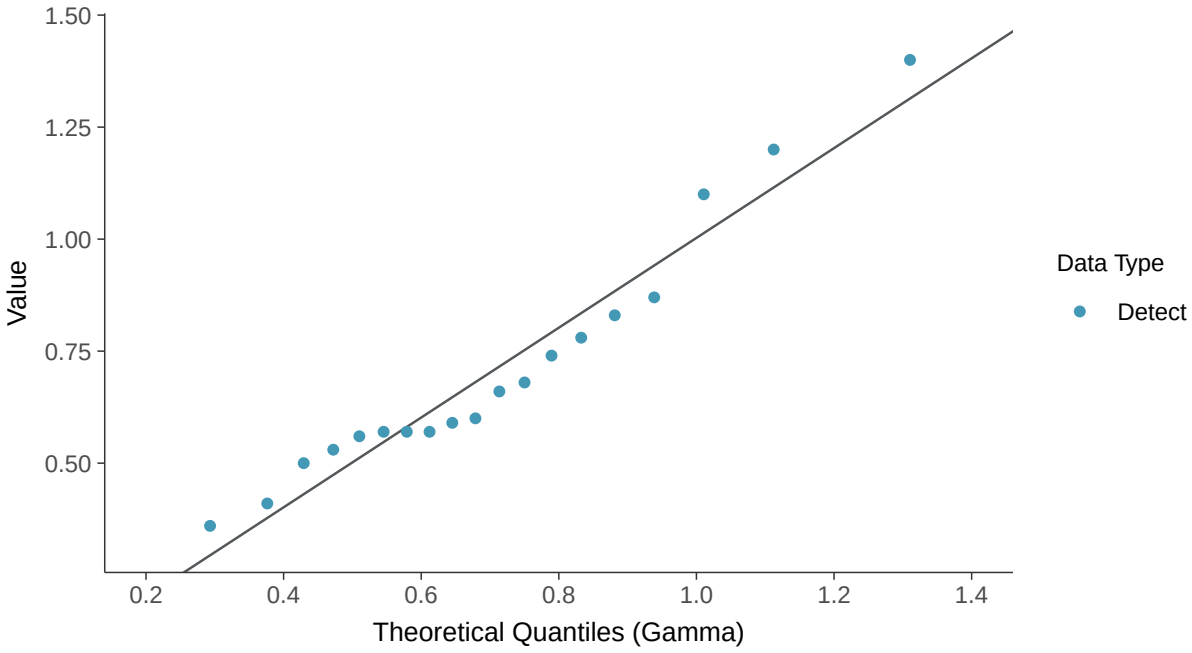
Lognormal Q-Q plot

Barium, MW-11 (mg/L)



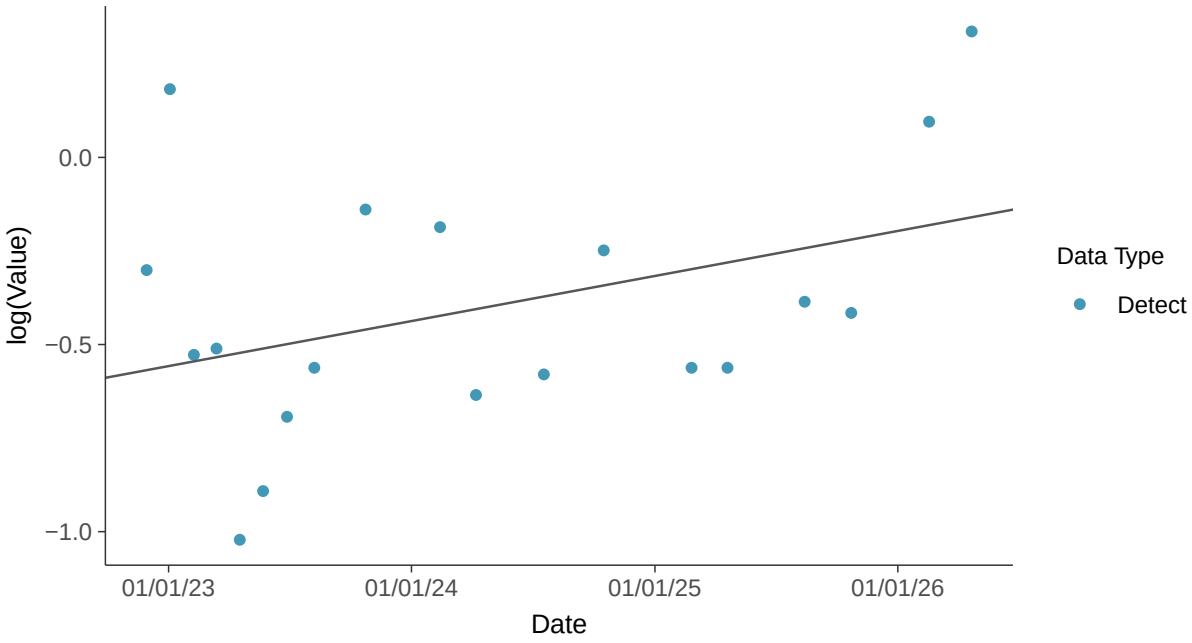
Gamma Q-Q plot

Barium, MW-11 (mg/L)



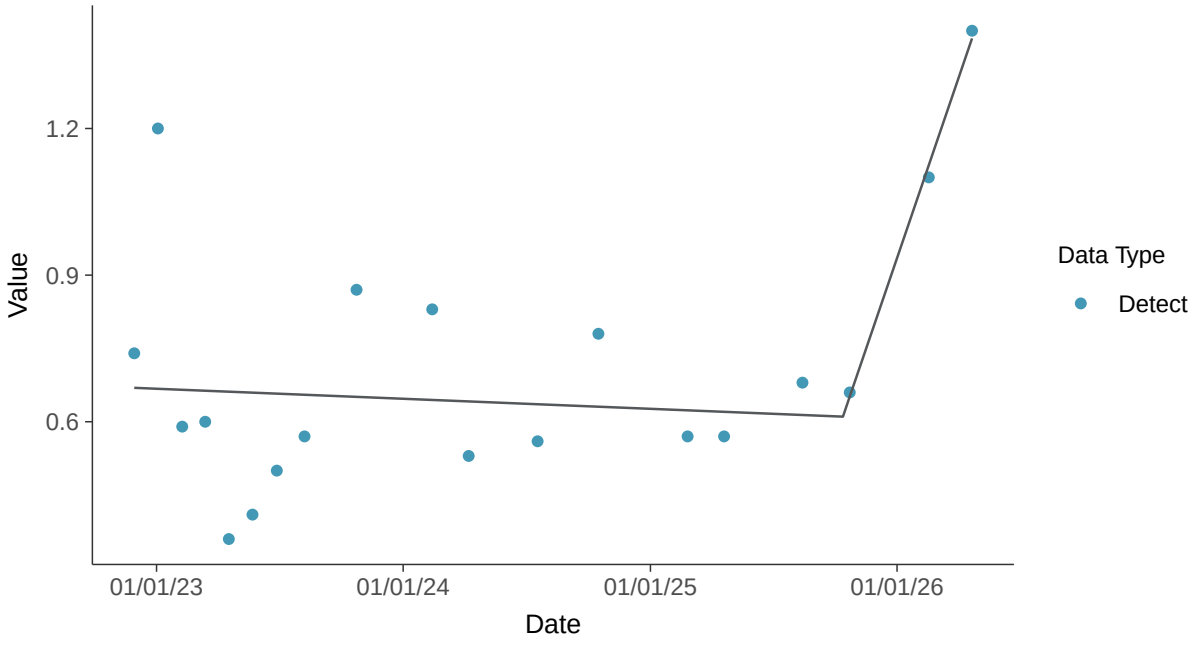
Trend Regression: Lognormal MLE

Barium, MW-11 (mg/L)



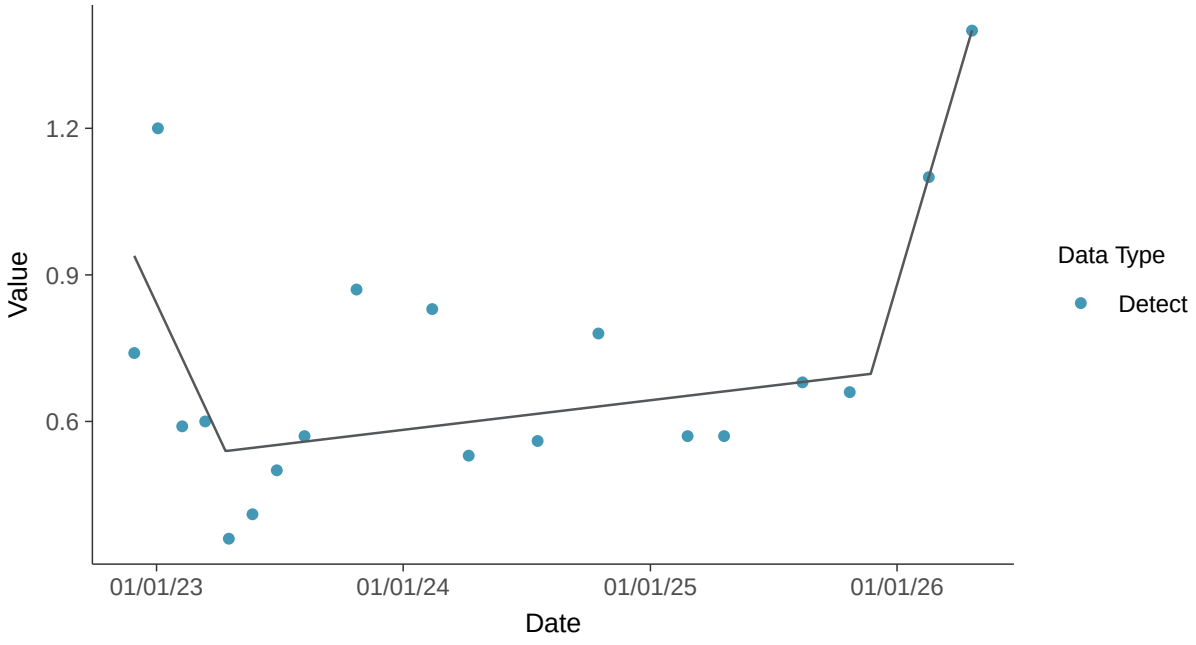
Trend Regression: Piecewise Linear-Linear

Barium, MW-11 (mg/L)



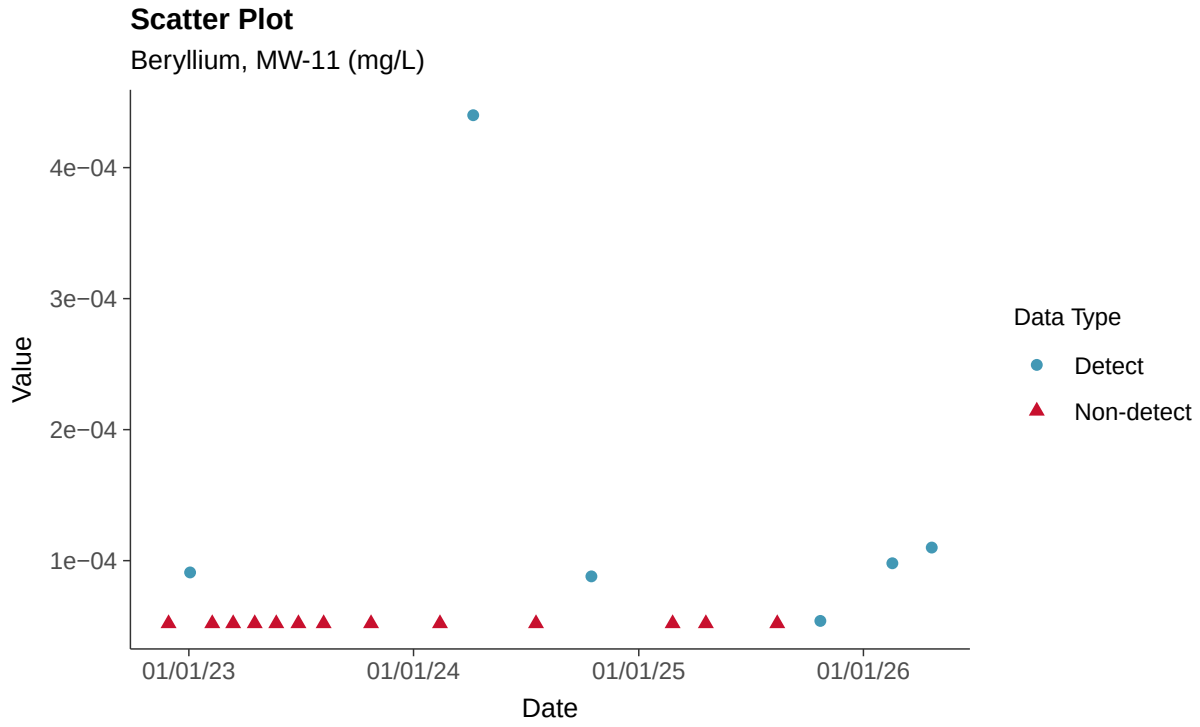
Trend Regression: Piecewise Linear-Linear-Linear

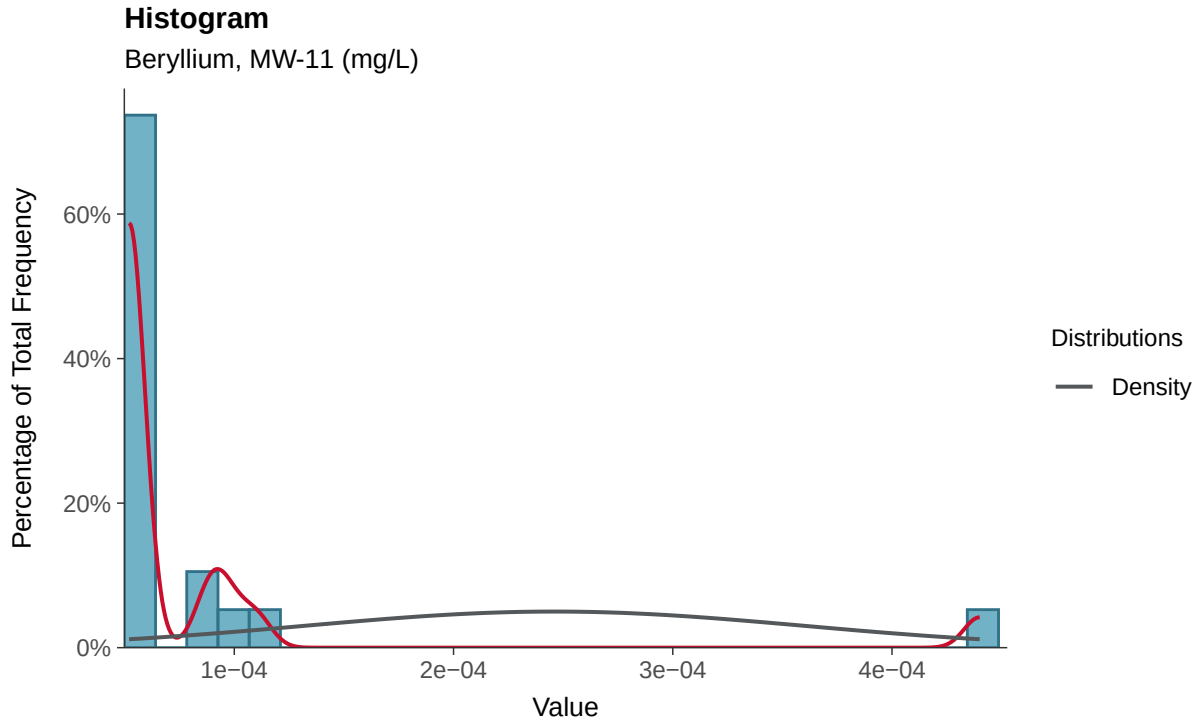
Barium, MW-11 (mg/L)



Appendix IV: Beryllium, MW-11

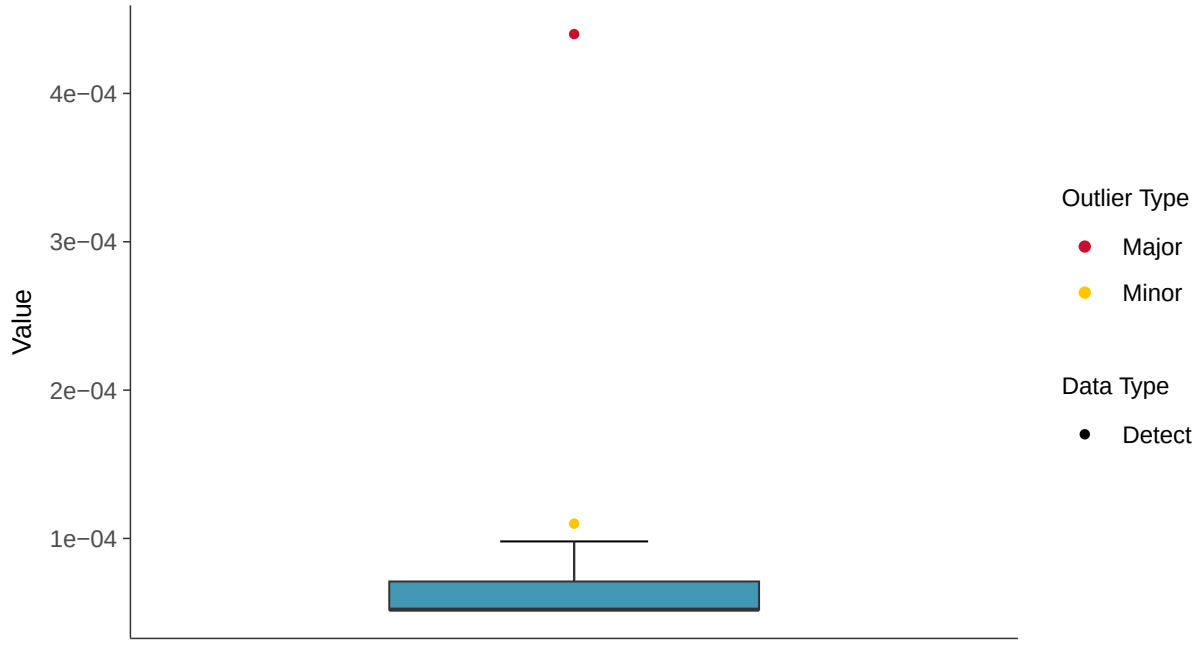
ID: 21_2_4_104





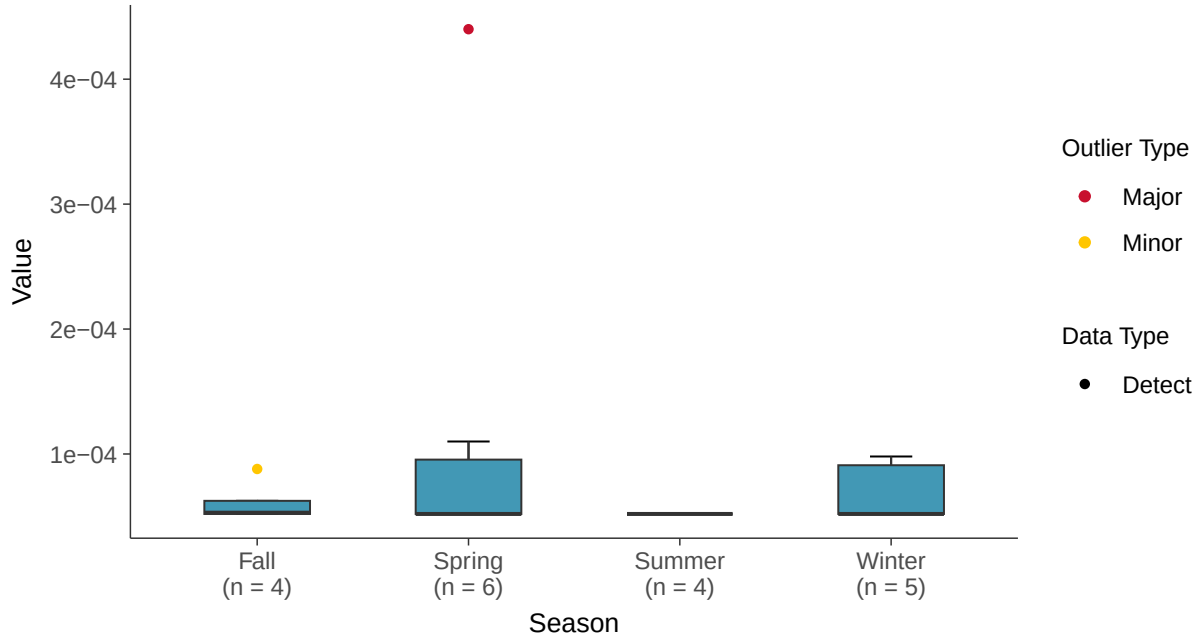
Boxplot

Beryllium, MW-11 (mg/L)



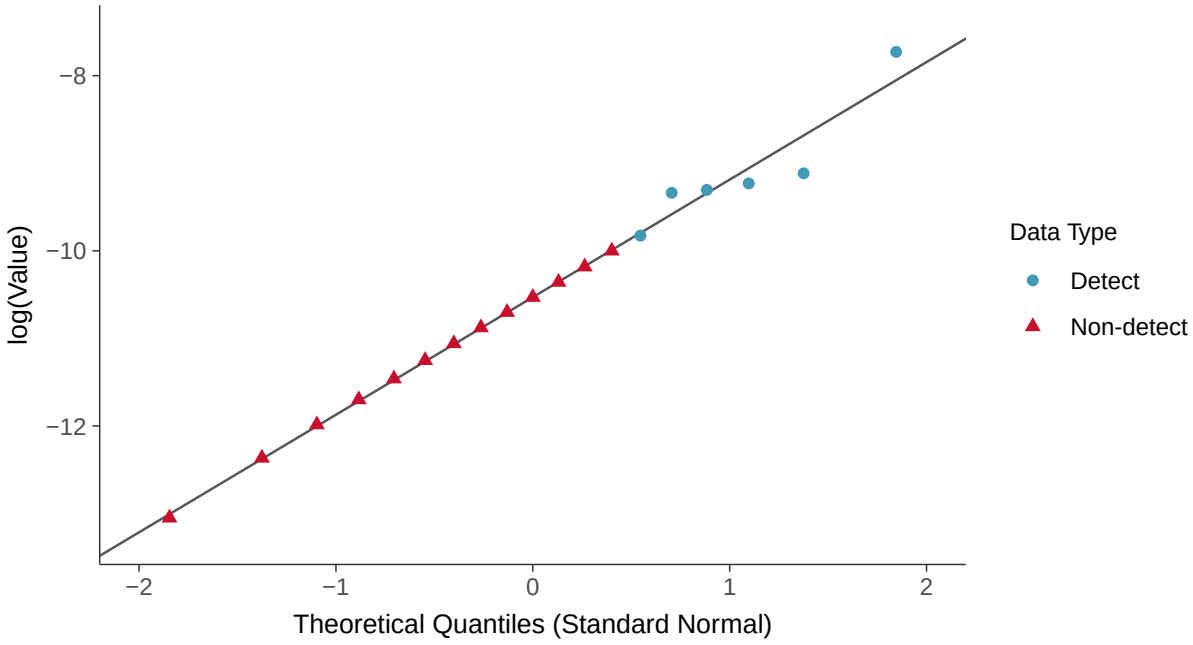
Boxplot by Season

Beryllium, MW-11 (mg/L)



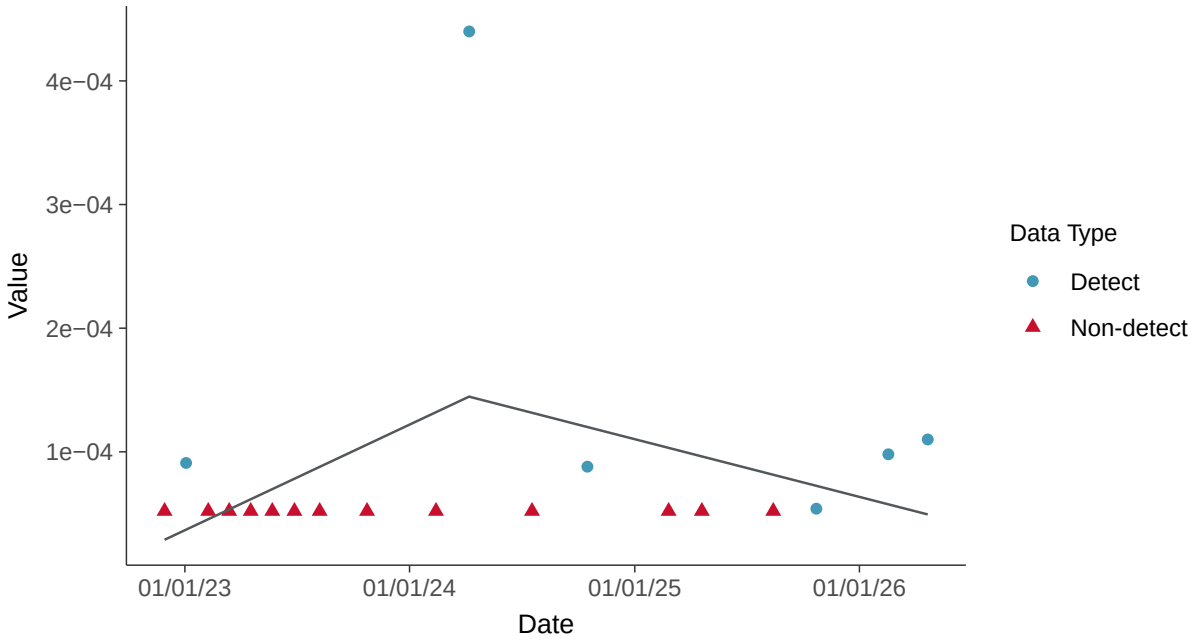
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-11 (mg/L)



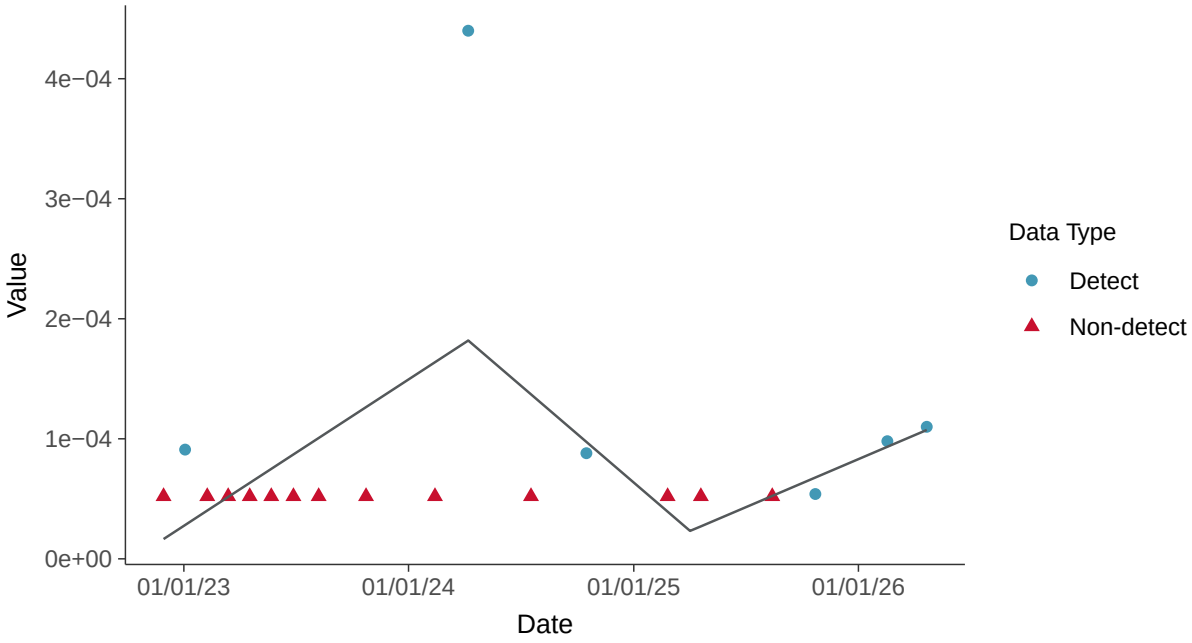
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-11 (mg/L)



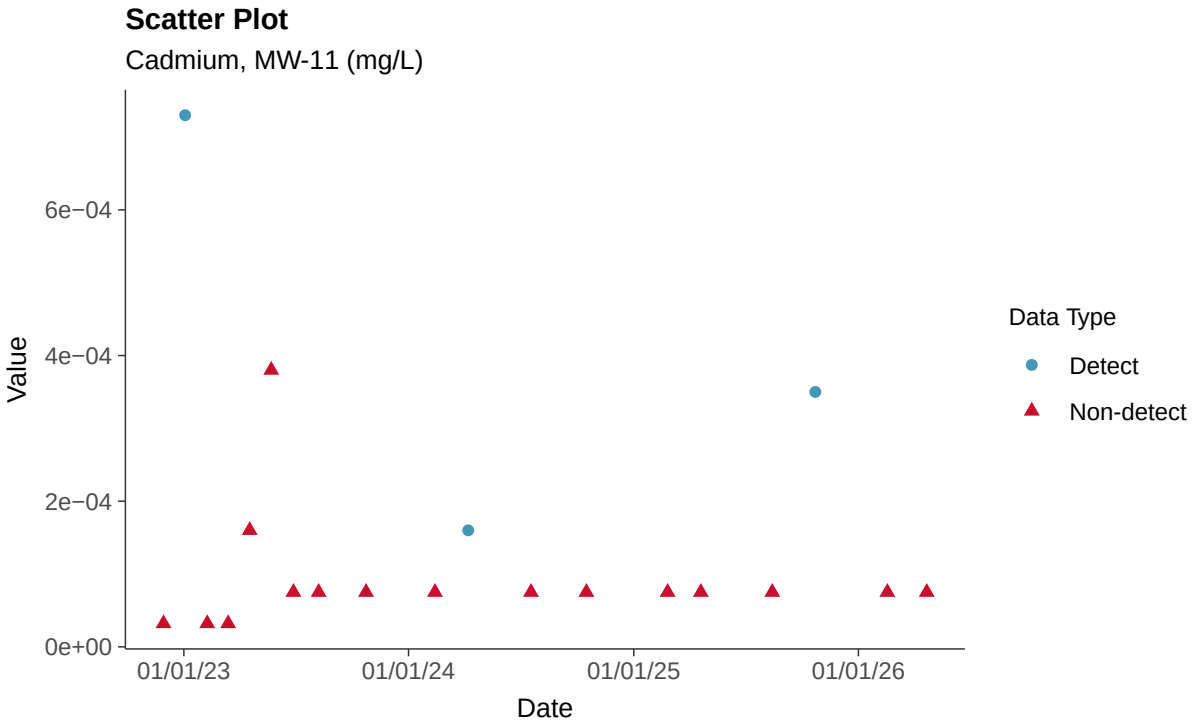
Trend Regression: Piecewise Linear-Linear-Linear

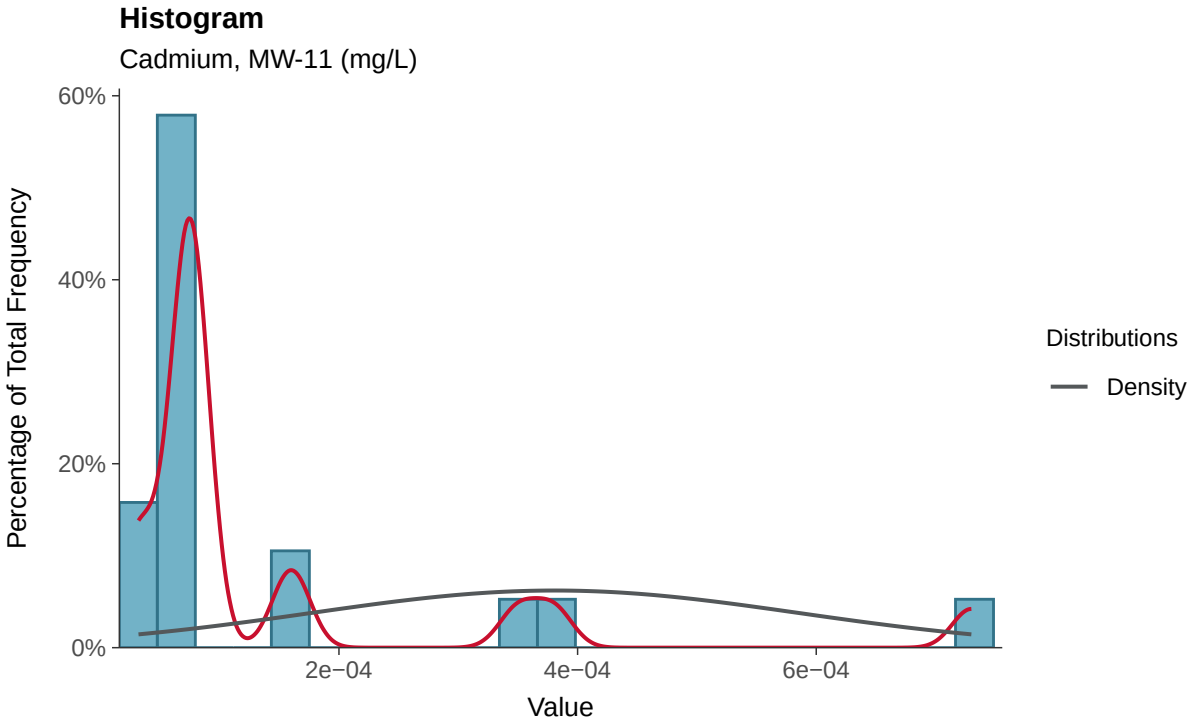
Beryllium, MW-11 (mg/L)



Appendix IV: Cadmium, MW-11

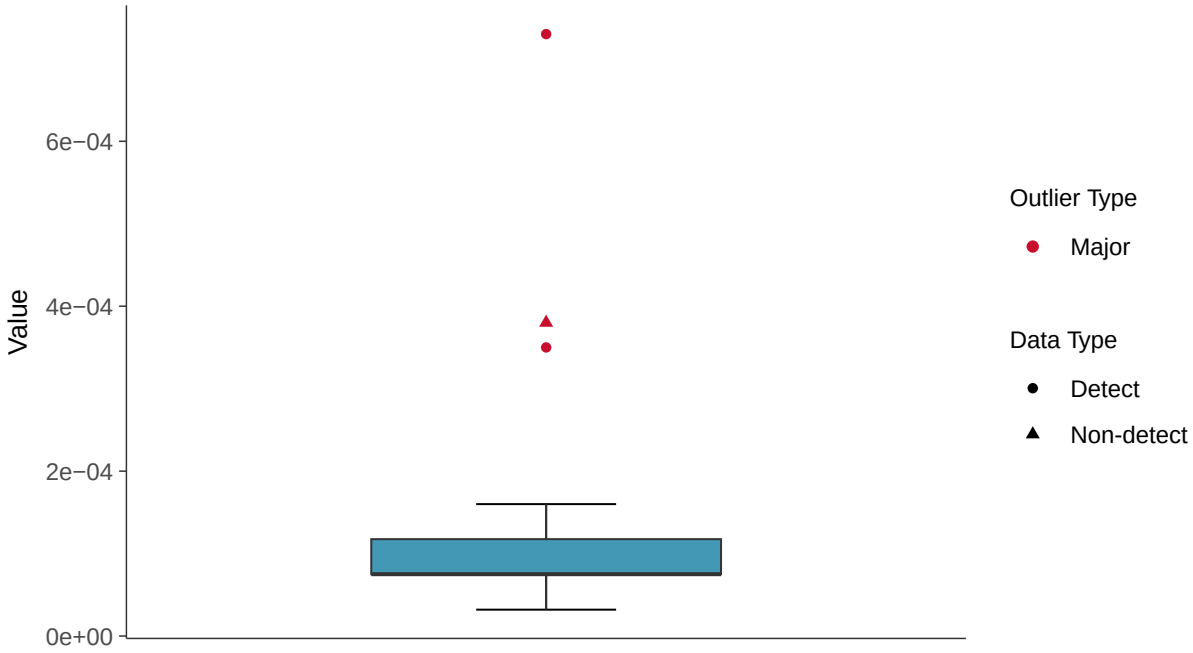
ID: 21_2_4_106





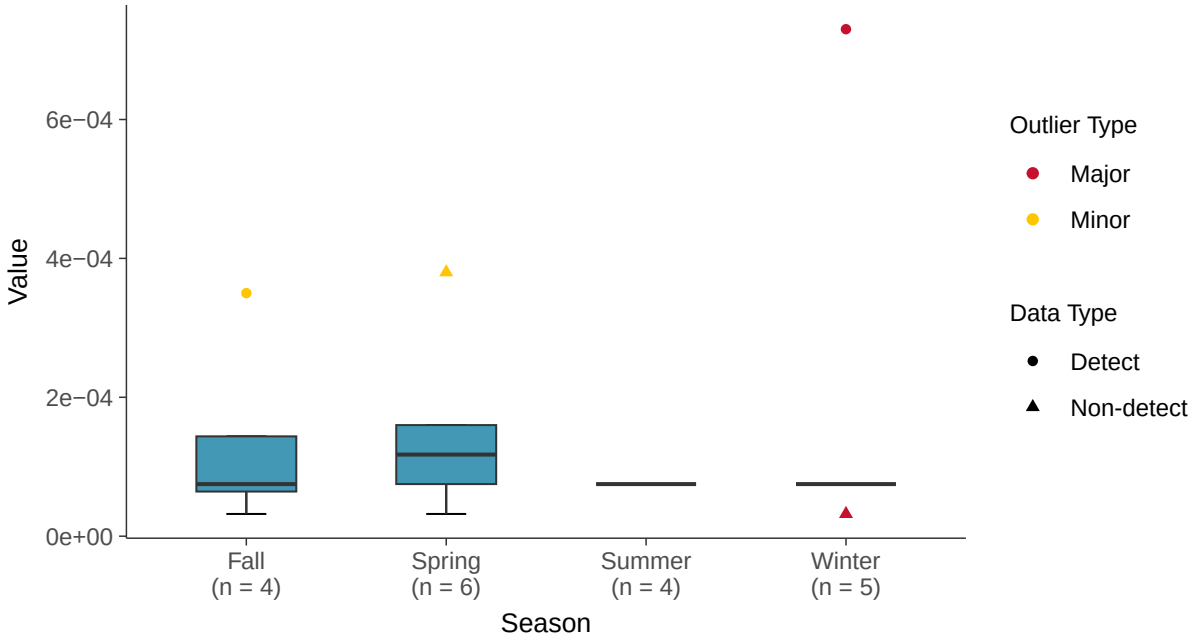
Boxplot

Cadmium, MW-11 (mg/L)



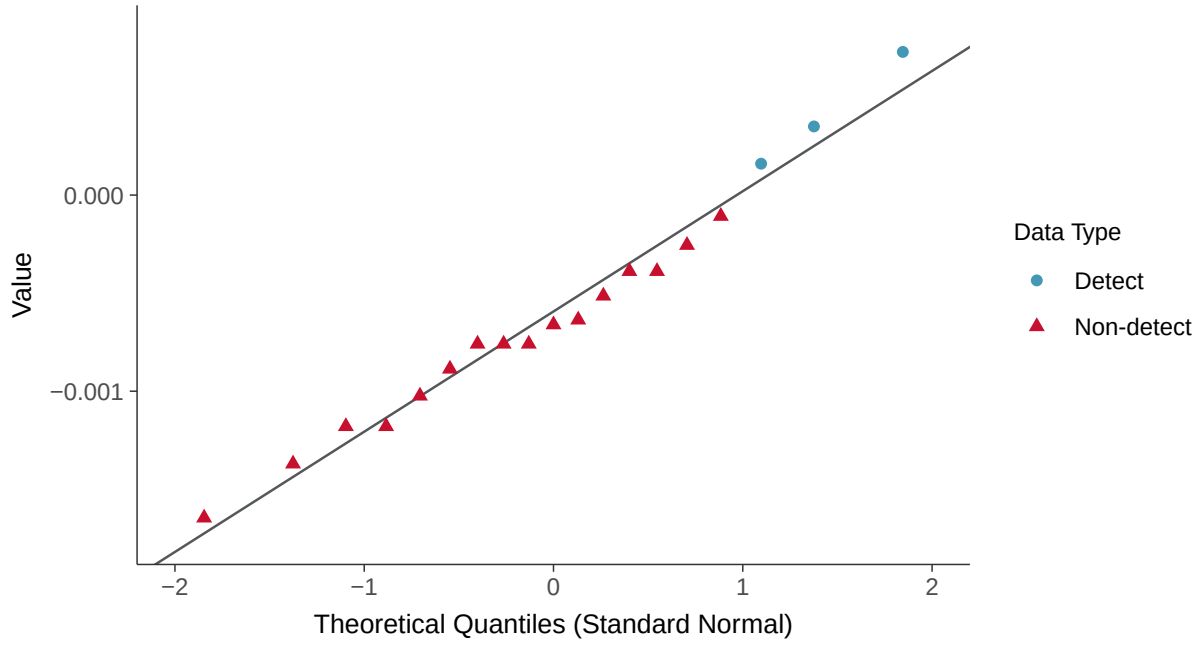
Boxplot by Season

Cadmium, MW-11 (mg/L)



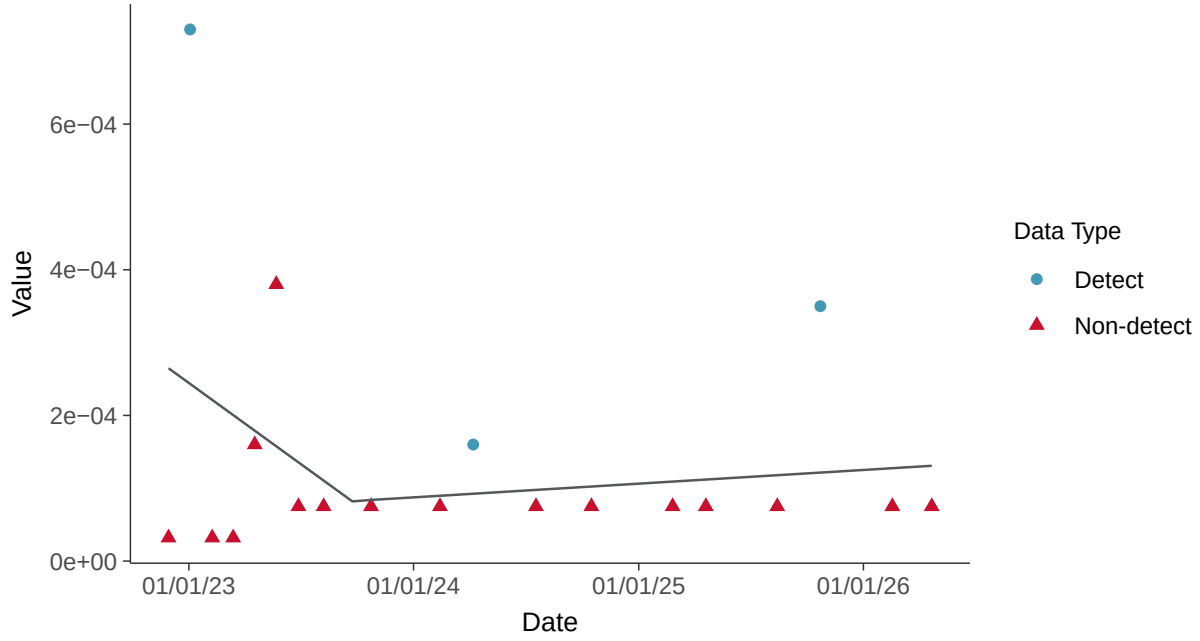
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-11 (mg/L)



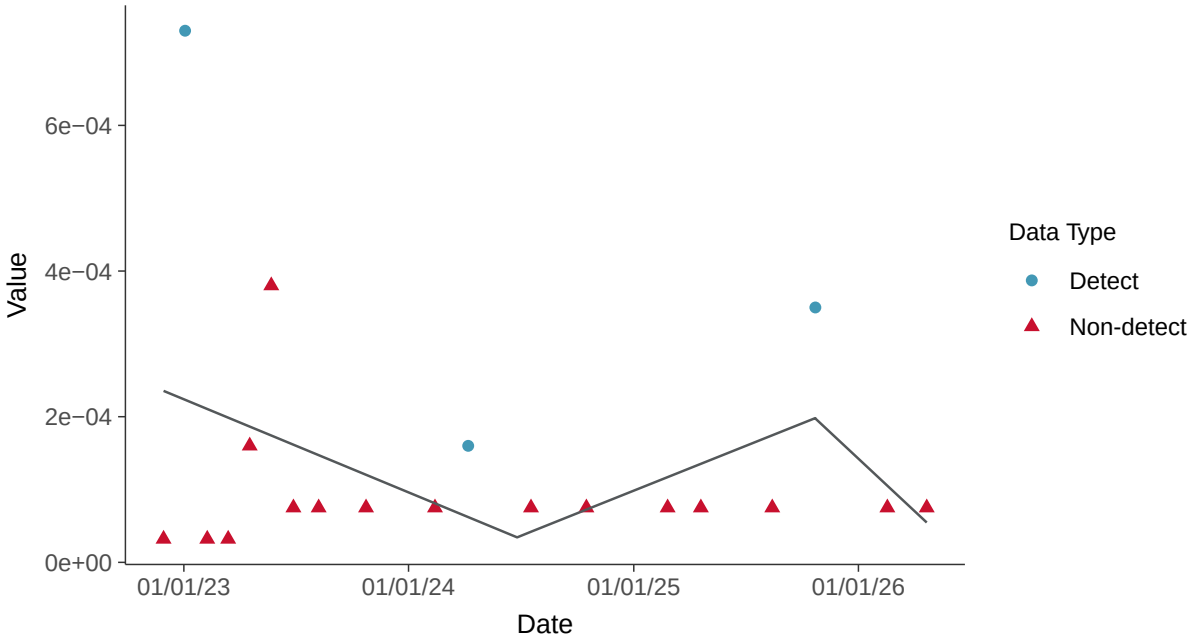
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-11 (mg/L)

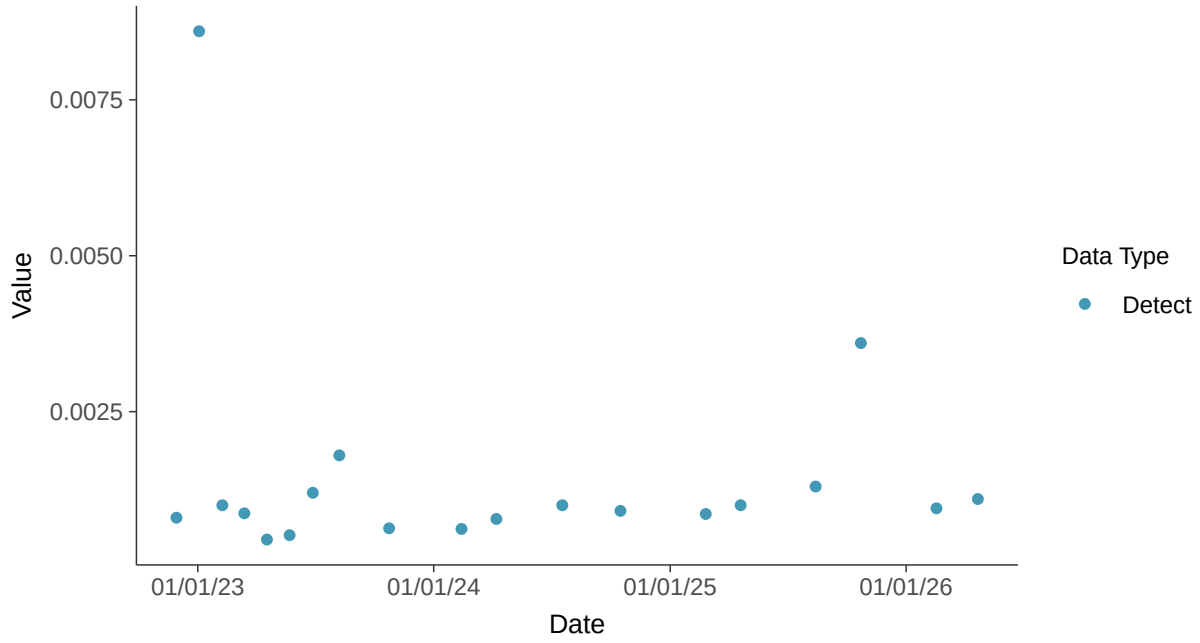


Appendix IV: Chromium, Total, MW-11

ID: 21_2_4_109

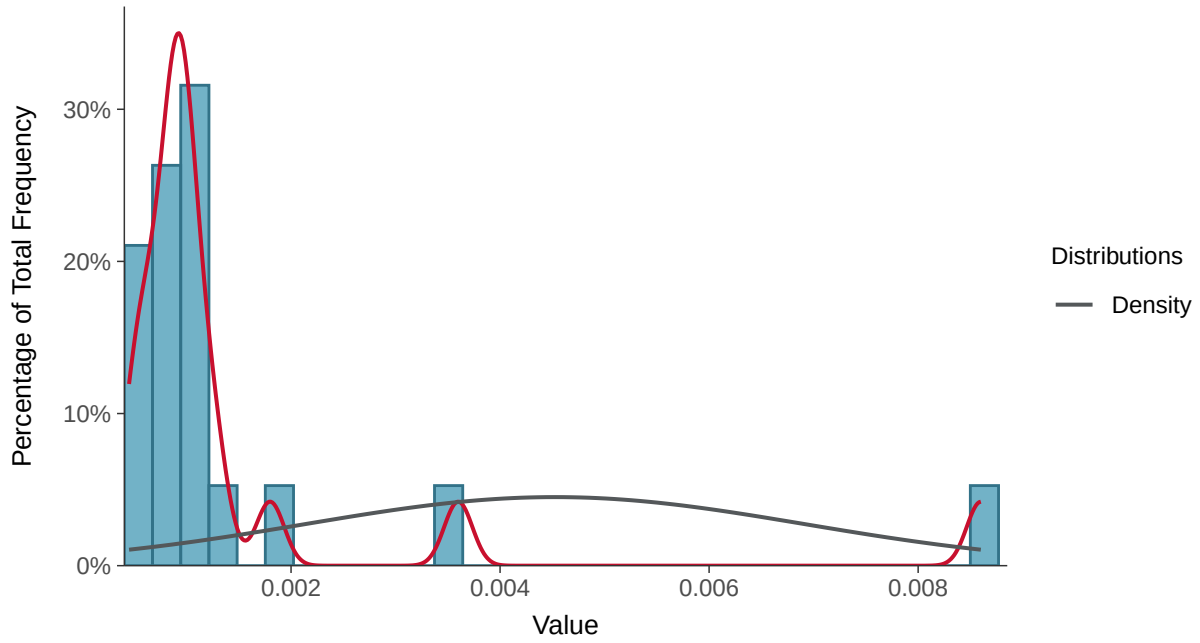
Scatter Plot

Chromium, Total, MW-11 (mg/L)



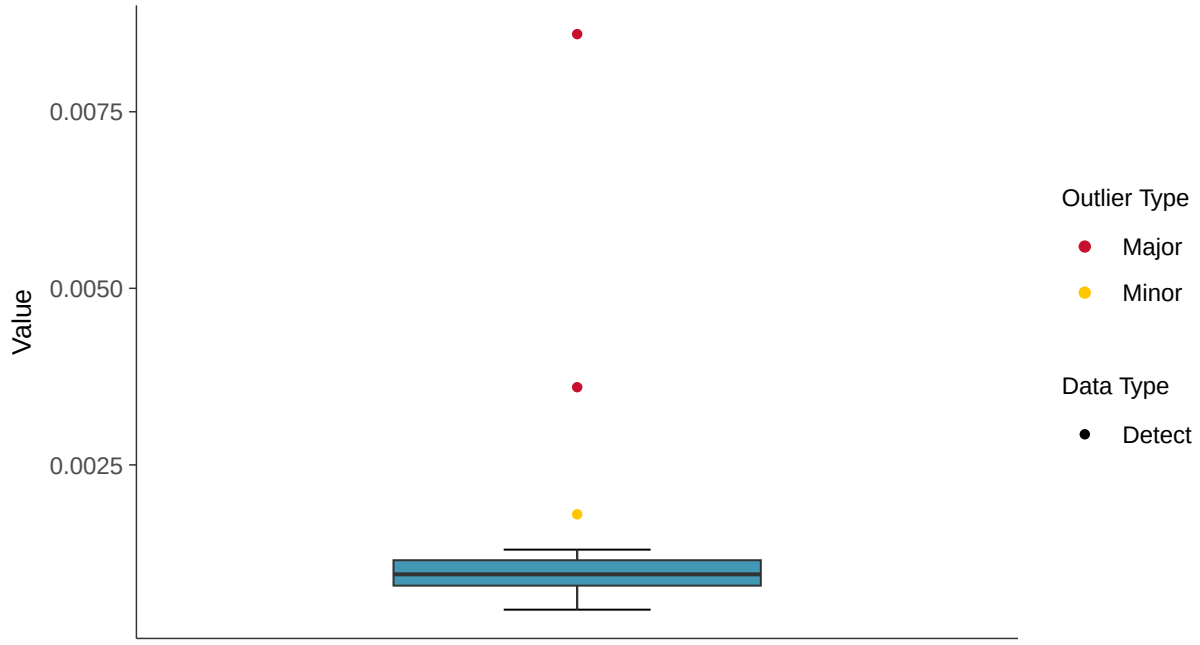
Histogram

Chromium, Total, MW-11 (mg/L)



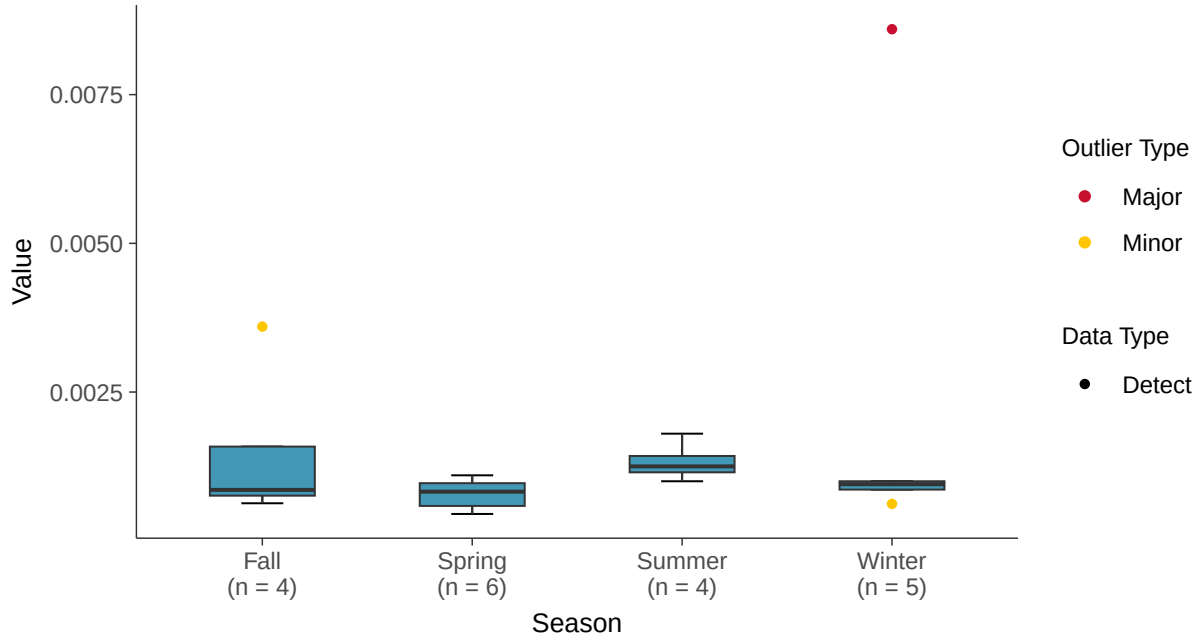
Boxplot

Chromium, Total, MW-11 (mg/L)



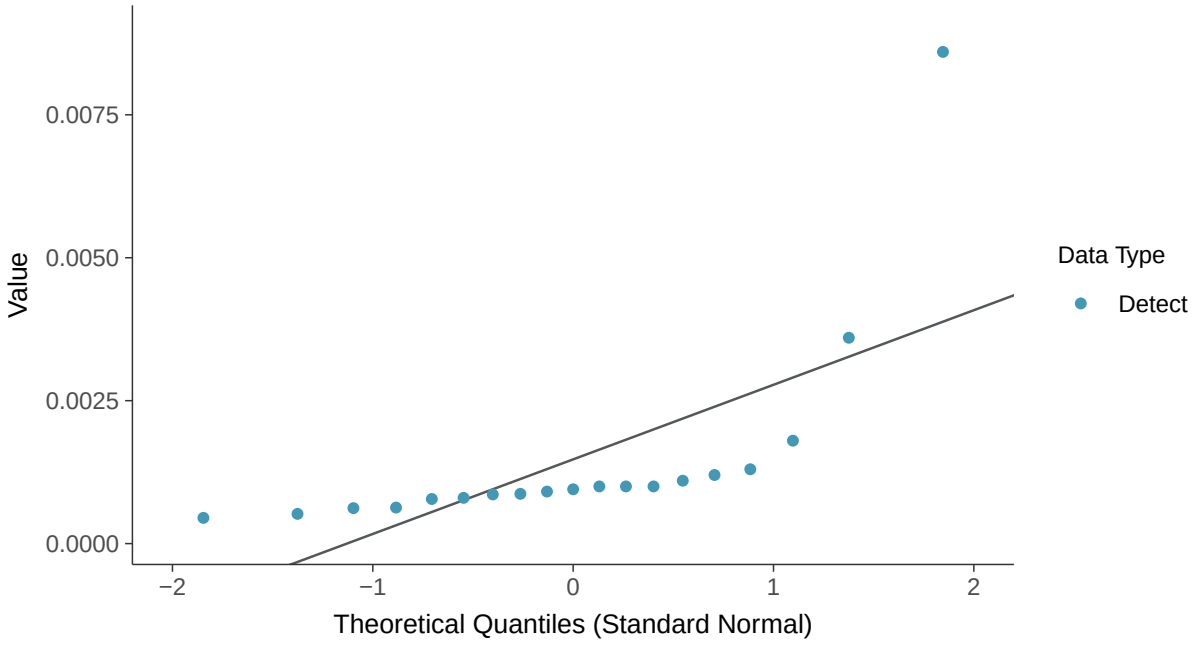
Boxplot by Season

Chromium, Total, MW-11 (mg/L)



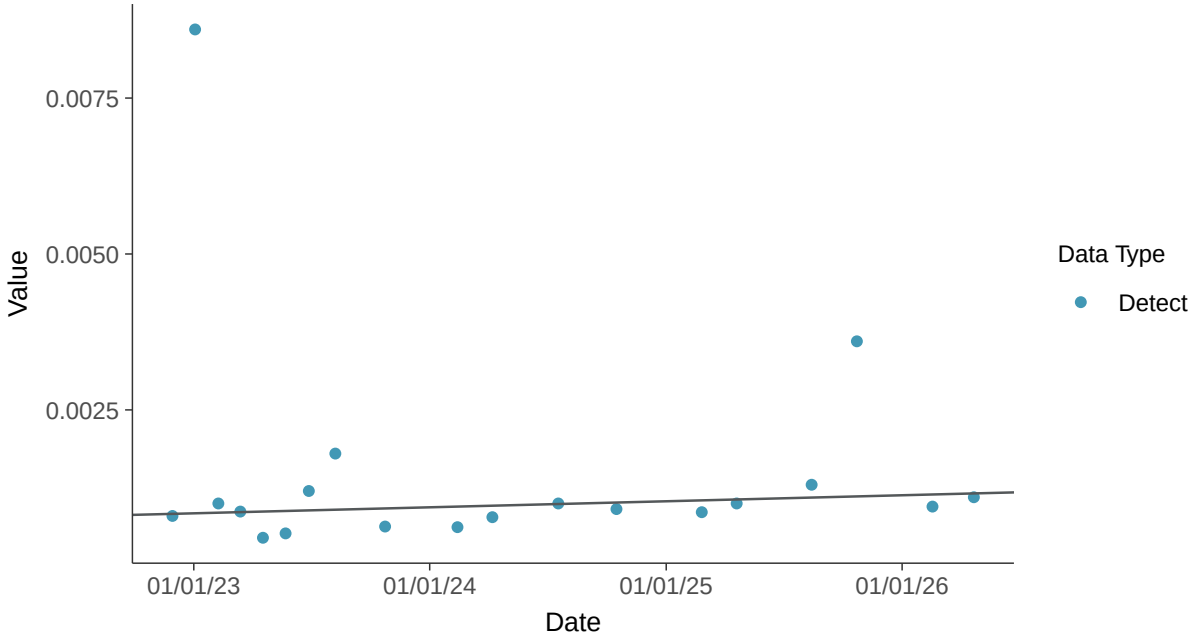
Normal Q-Q plot

Chromium, Total, MW-11 (mg/L)



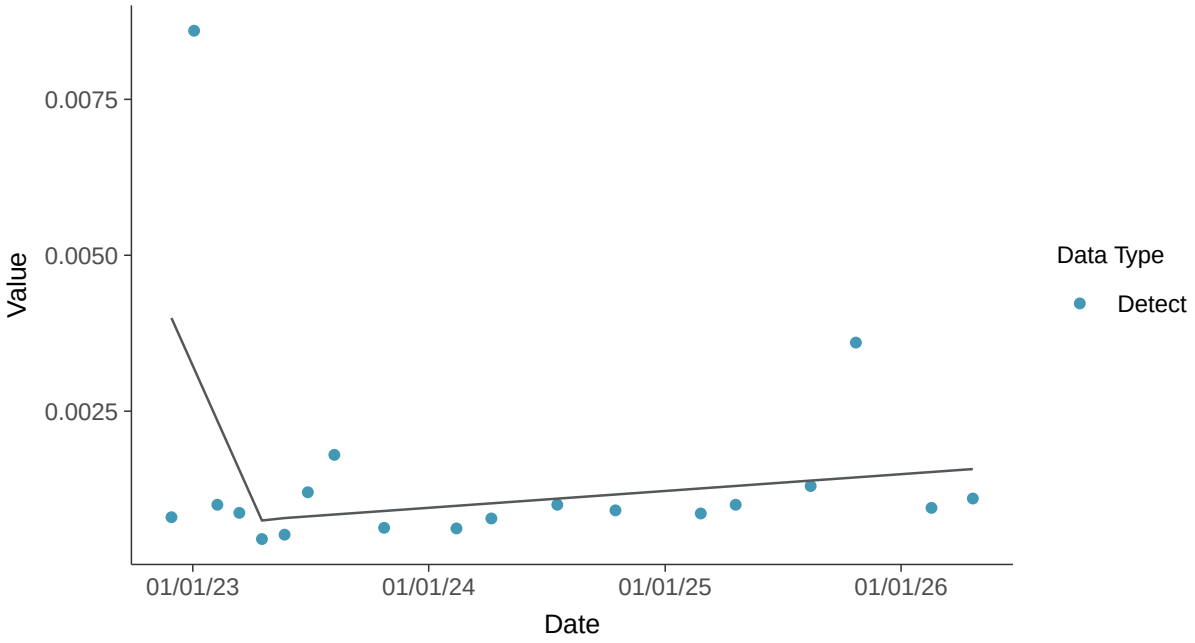
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chromium, Total, MW-11 (mg/L)



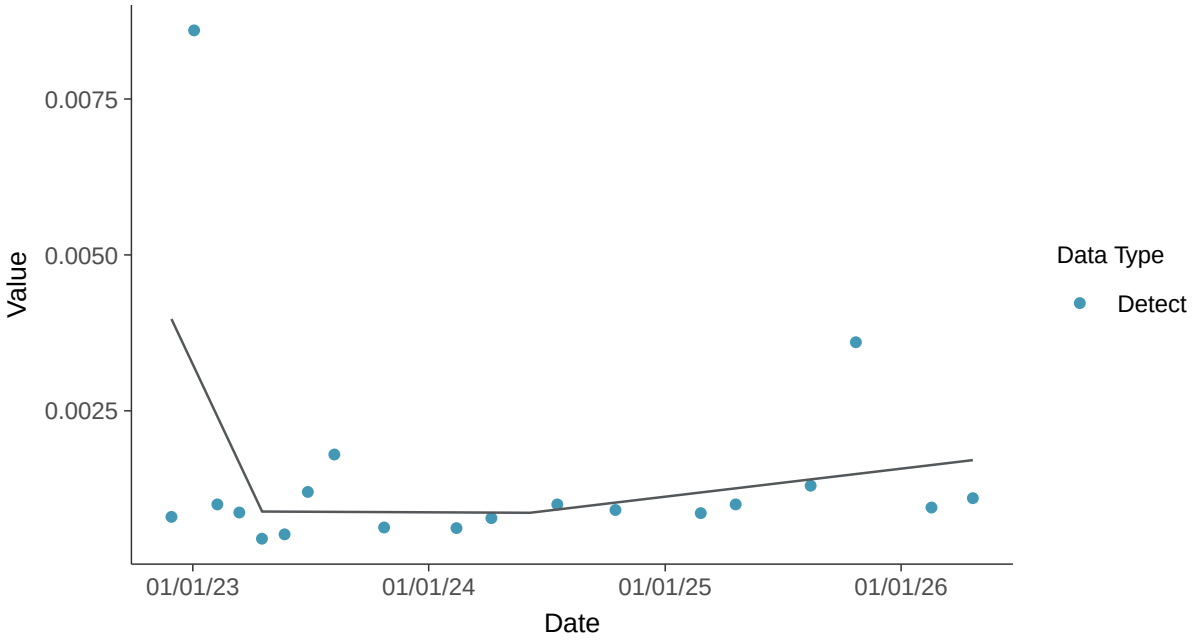
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-11 (mg/L)

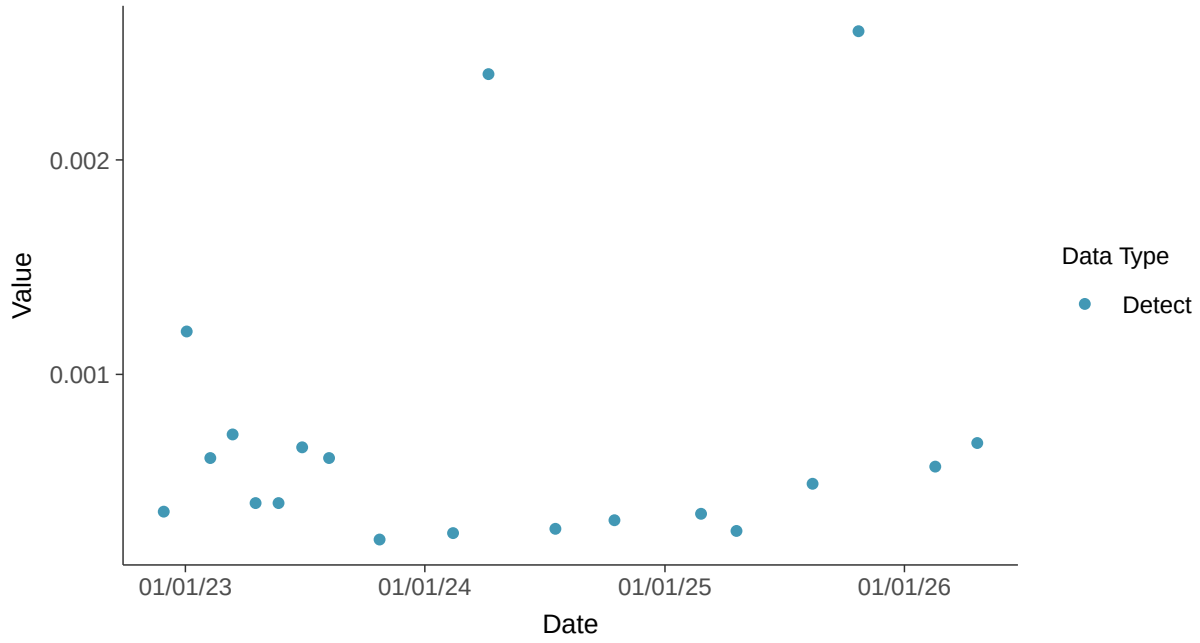


Appendix IV: Cobalt, MW-11

ID: 21_2_4_110

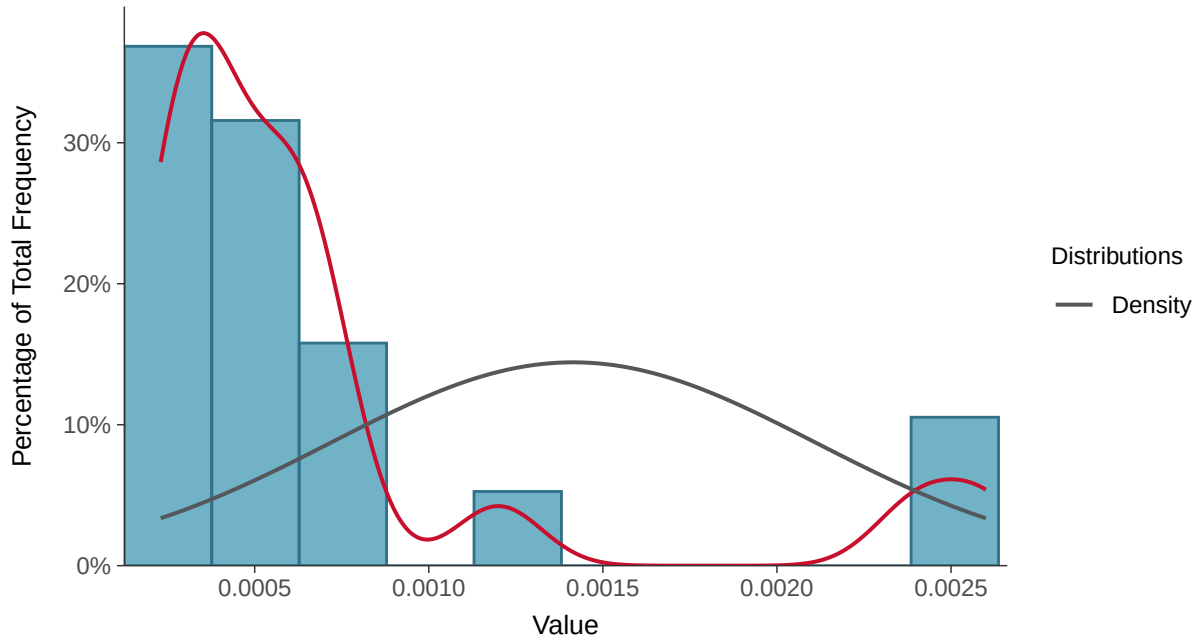
Scatter Plot

Cobalt, MW-11 (mg/L)



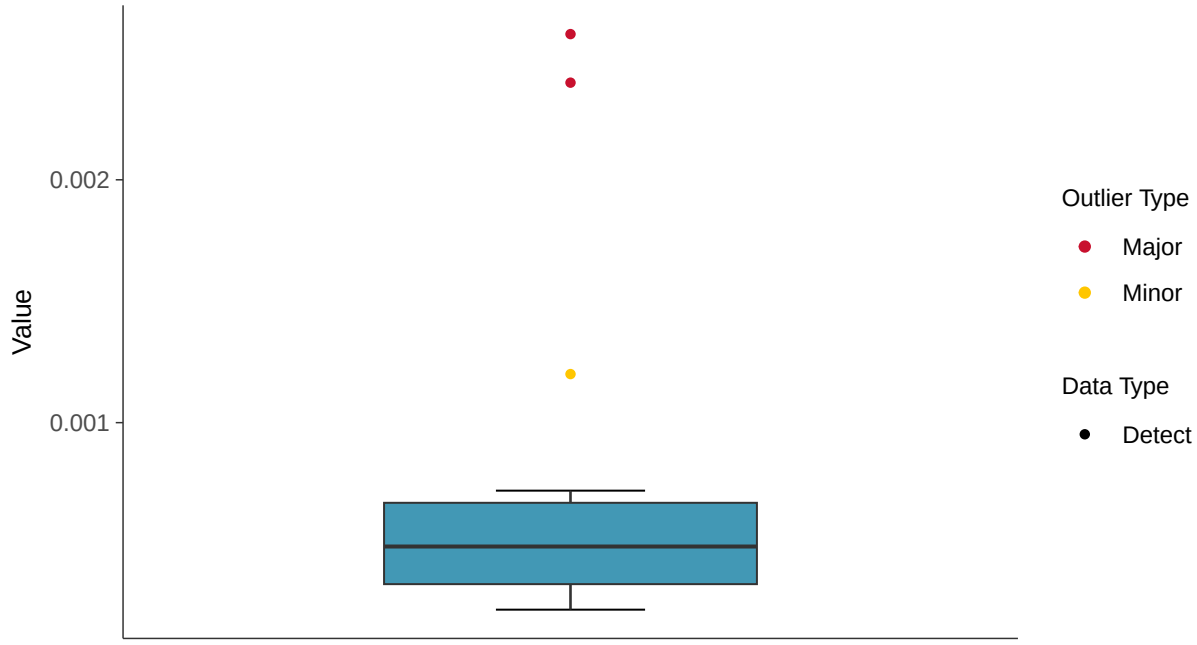
Histogram

Cobalt, MW-11 (mg/L)



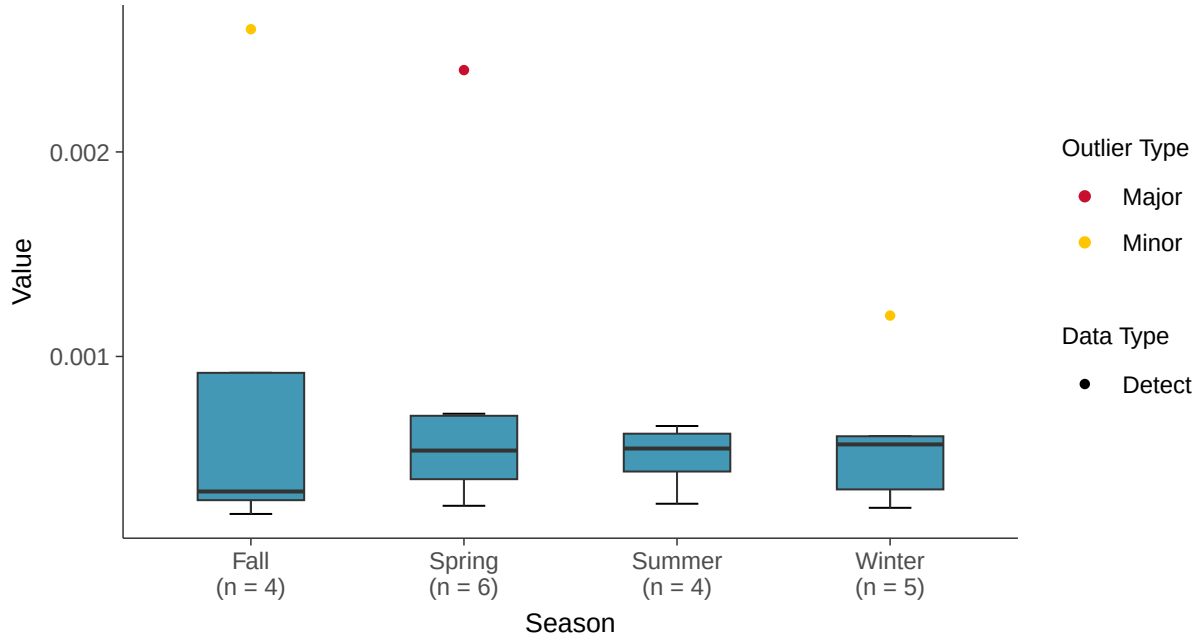
Boxplot

Cobalt, MW-11 (mg/L)



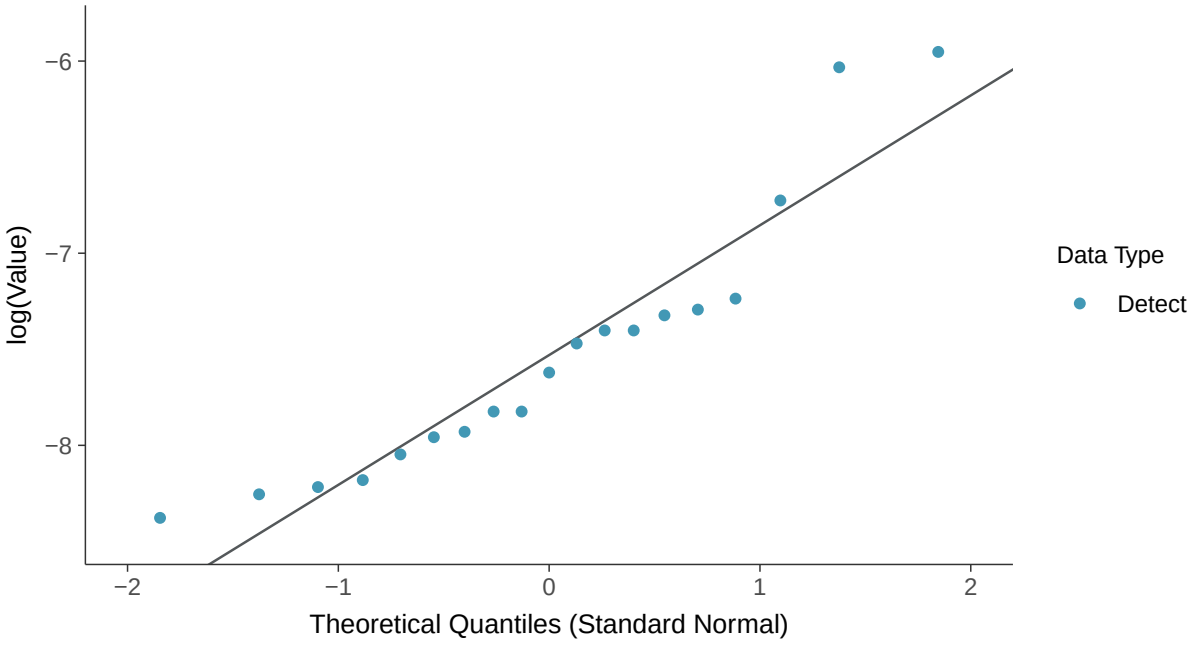
Boxplot by Season

Cobalt, MW-11 (mg/L)



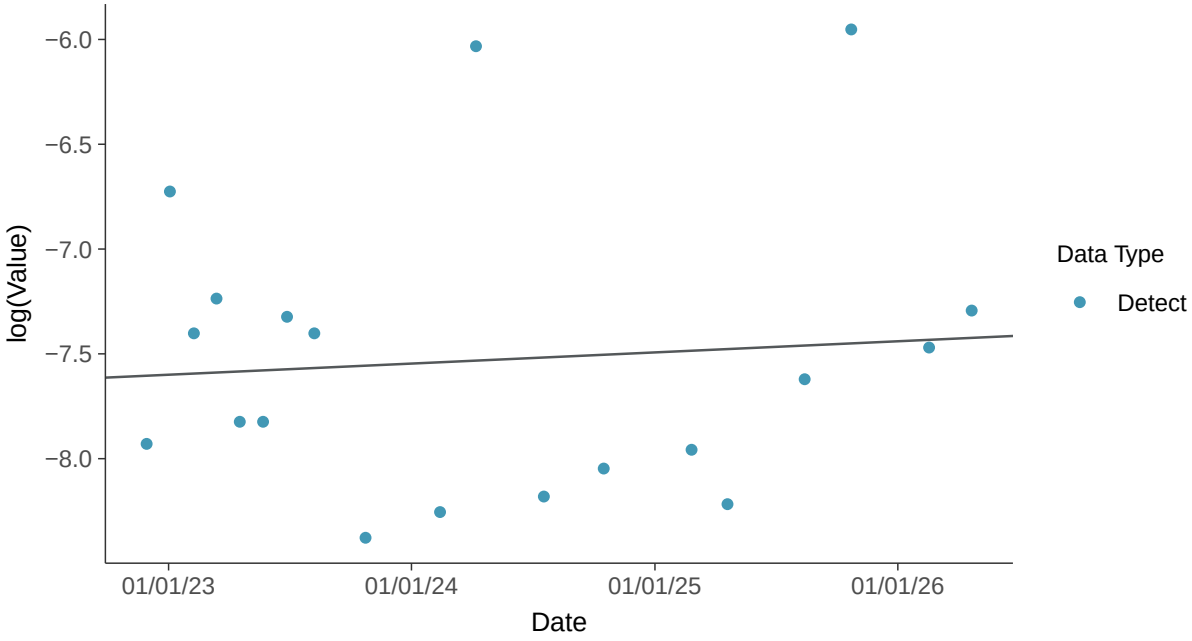
Lognormal Q-Q plot

Cobalt, MW-11 (mg/L)



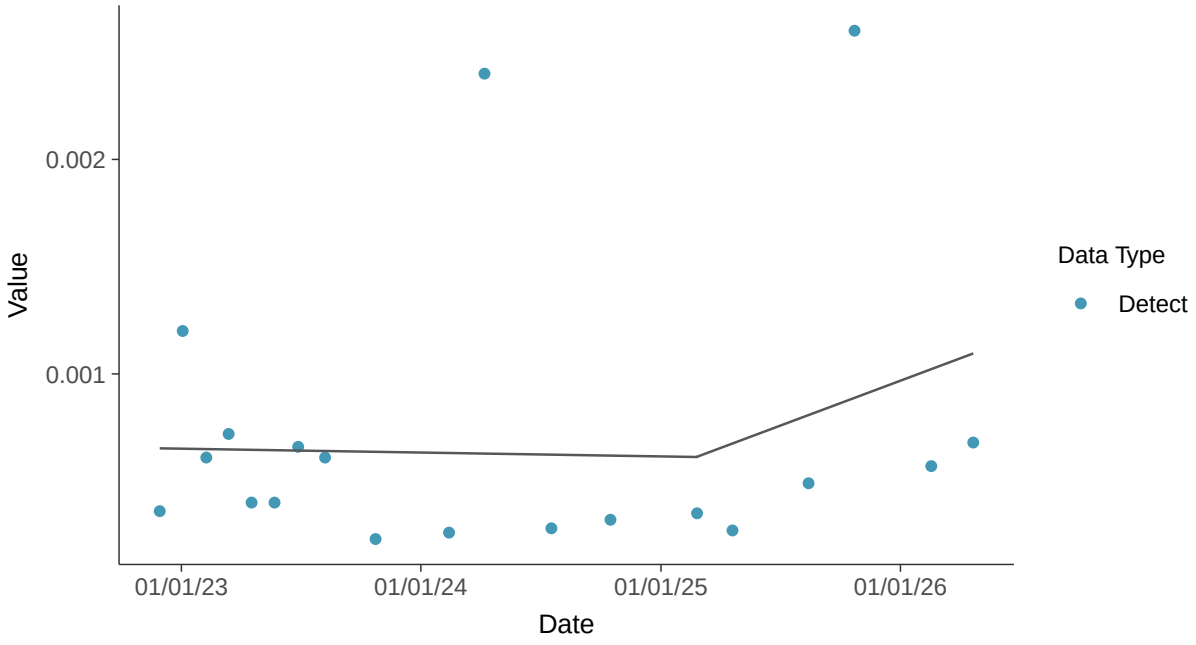
Trend Regression: Lognormal MLE

Cobalt, MW-11 (mg/L)



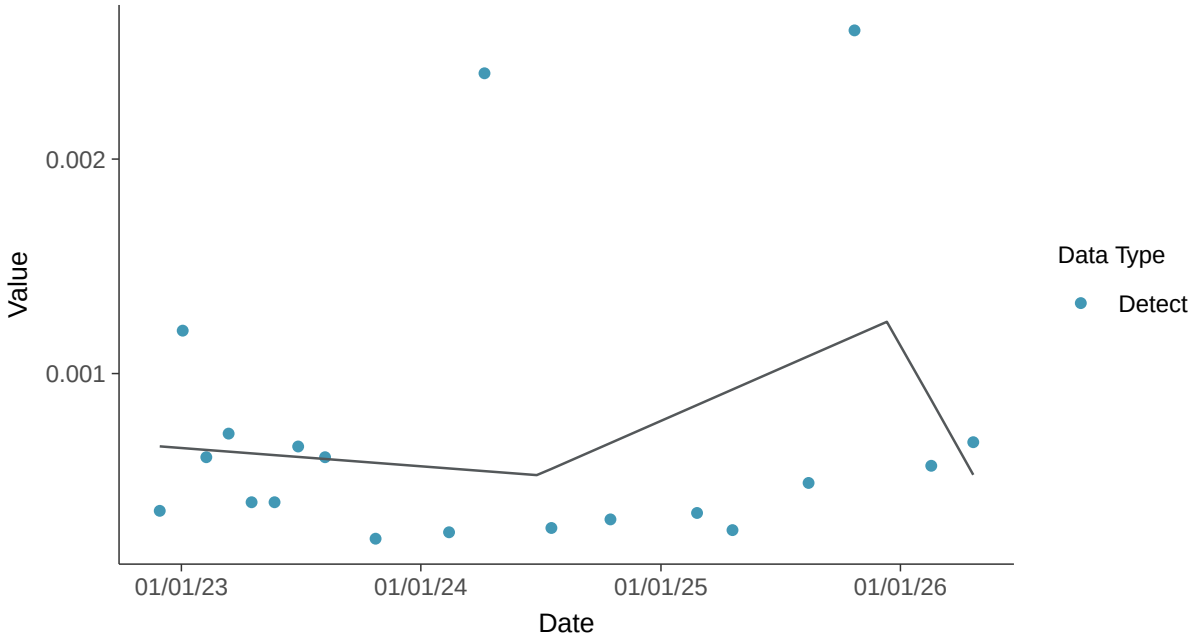
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-11 (mg/L)

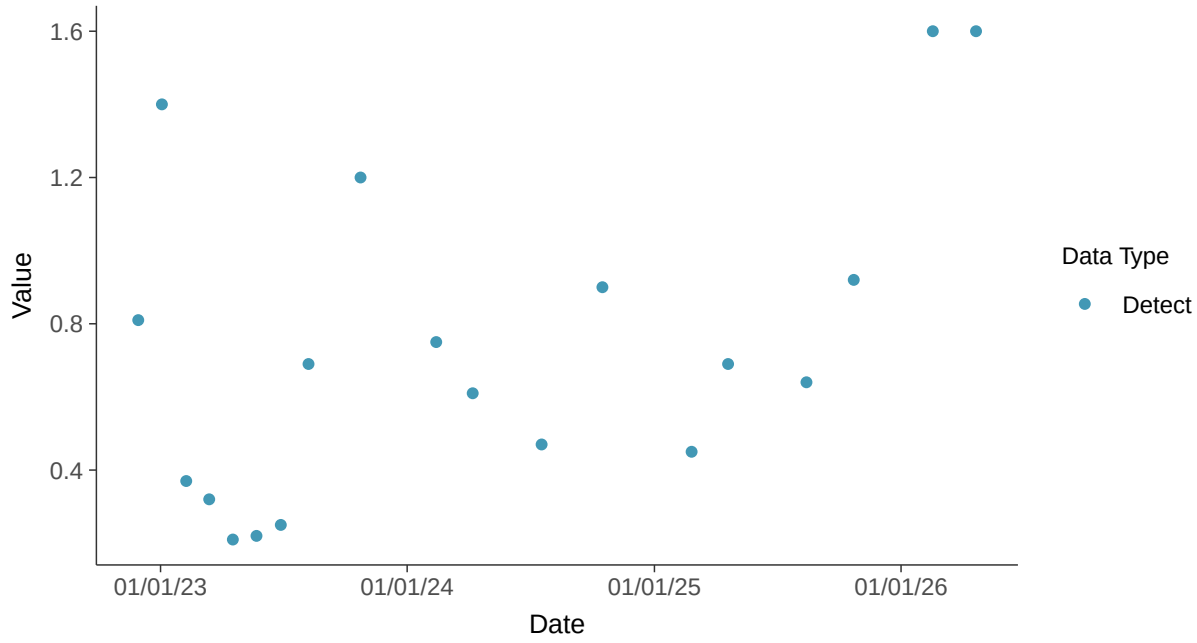


Appendix IV: Fluoride (App IV), MW-11

ID: 21_2_4_113

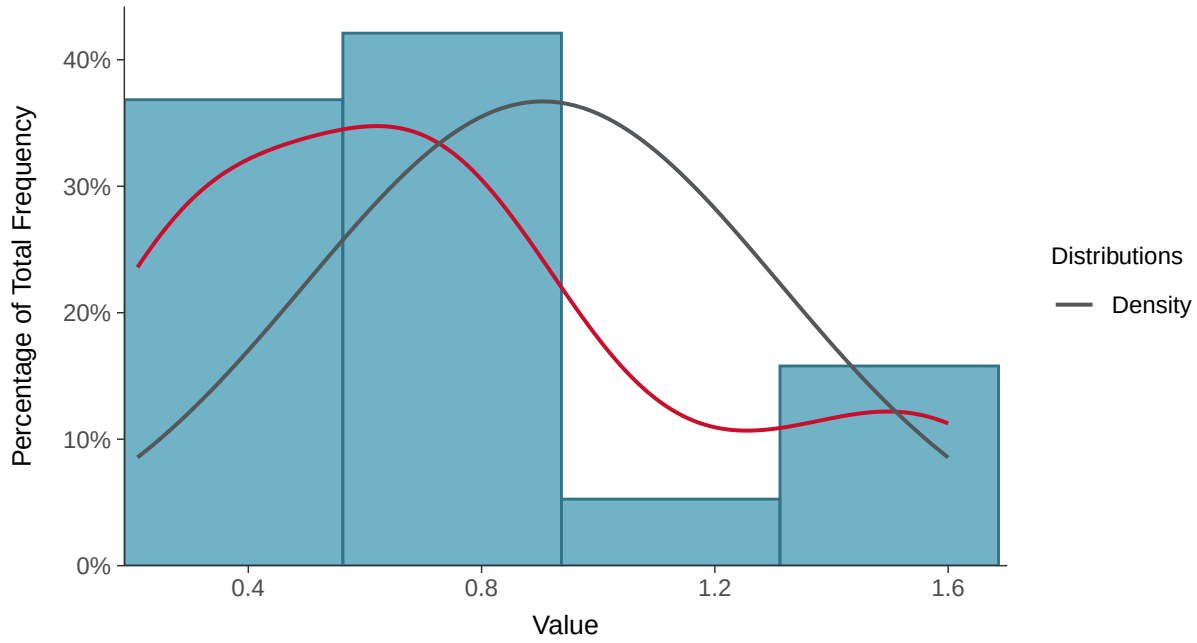
Scatter Plot

Fluoride (App IV), MW-11 (mg/L)



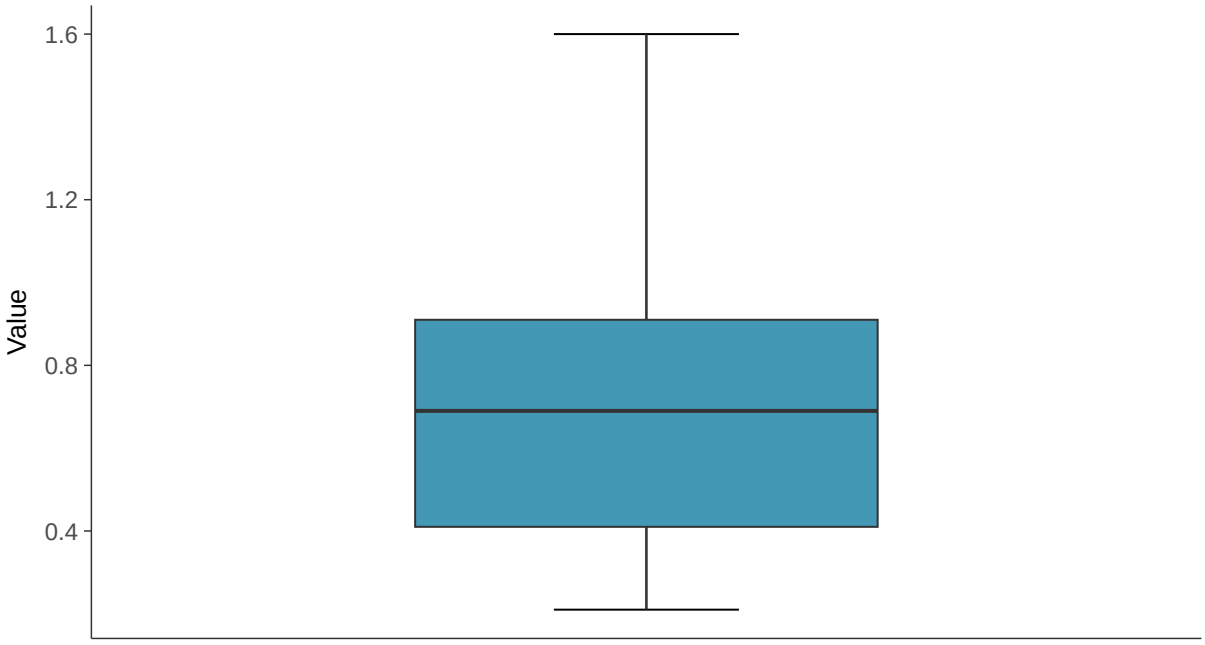
Histogram

Fluoride (App IV), MW-11 (mg/L)



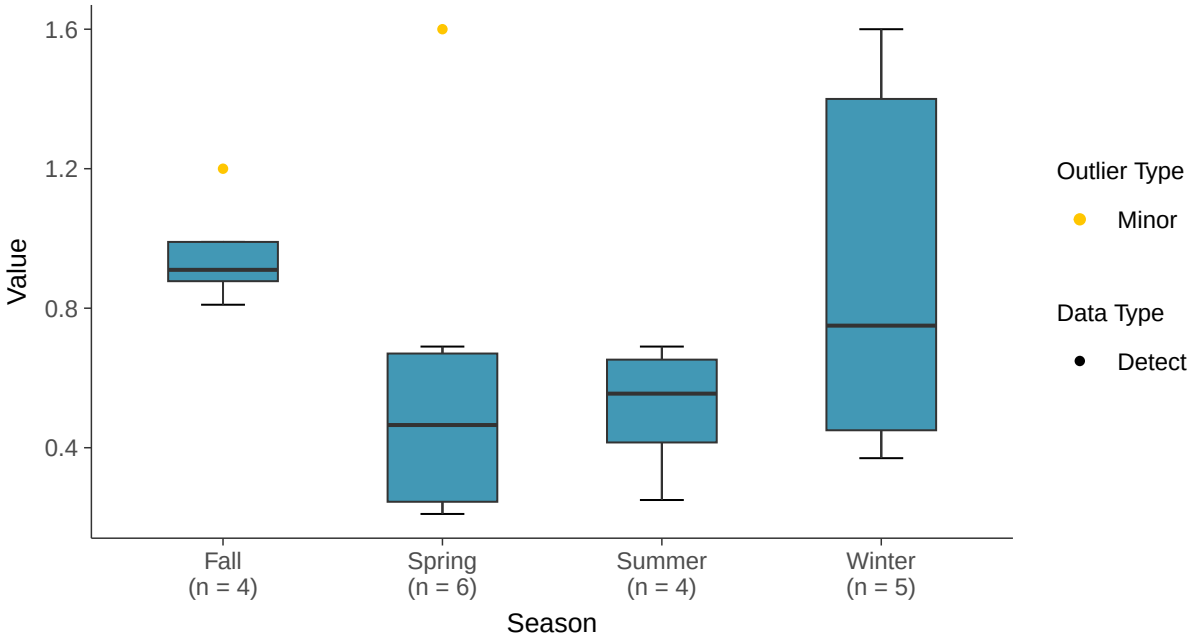
Boxplot

Fluoride (App IV), MW-11 (mg/L)



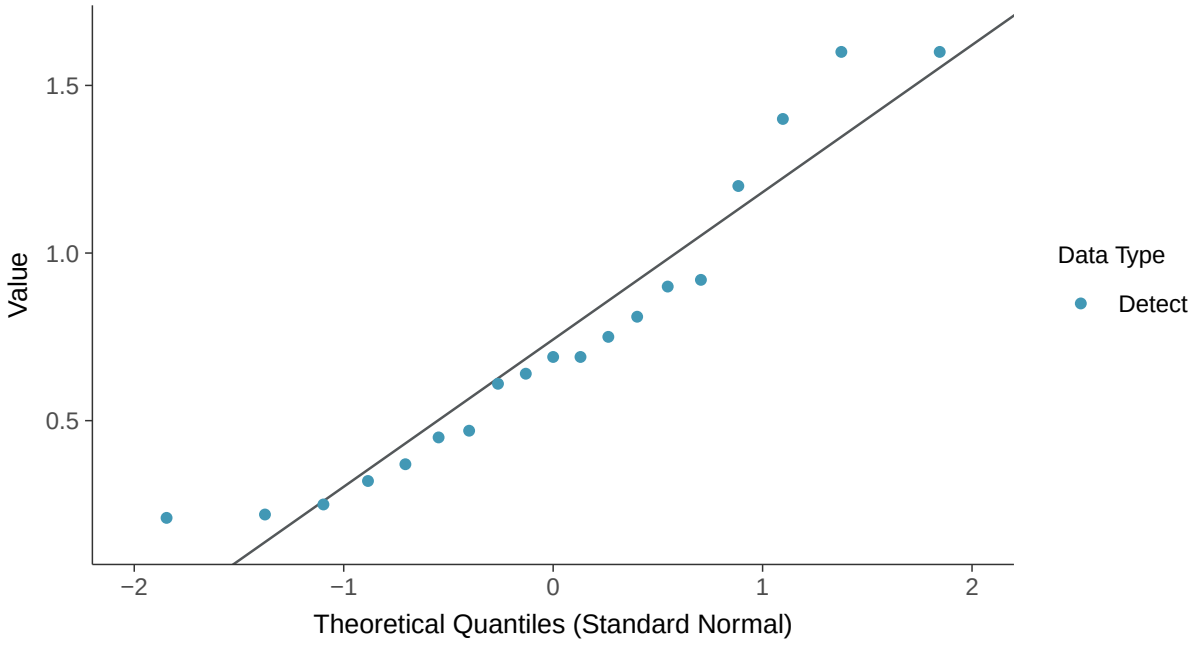
Boxplot by Season

Fluoride (App IV), MW-11 (mg/L)



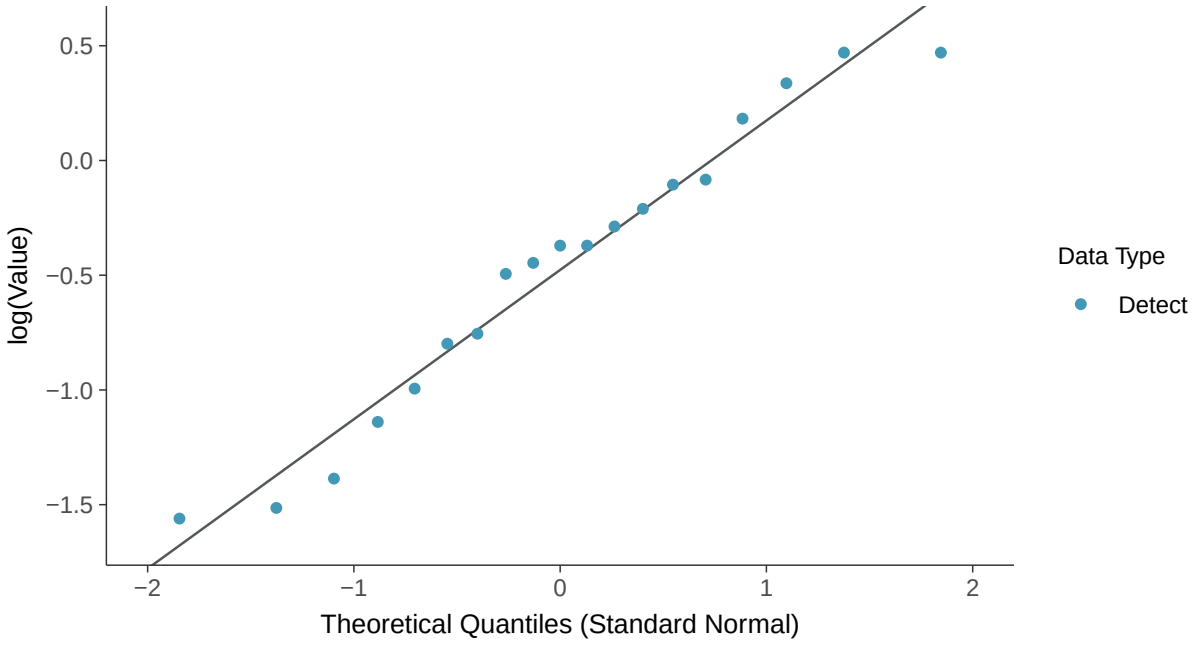
Normal Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



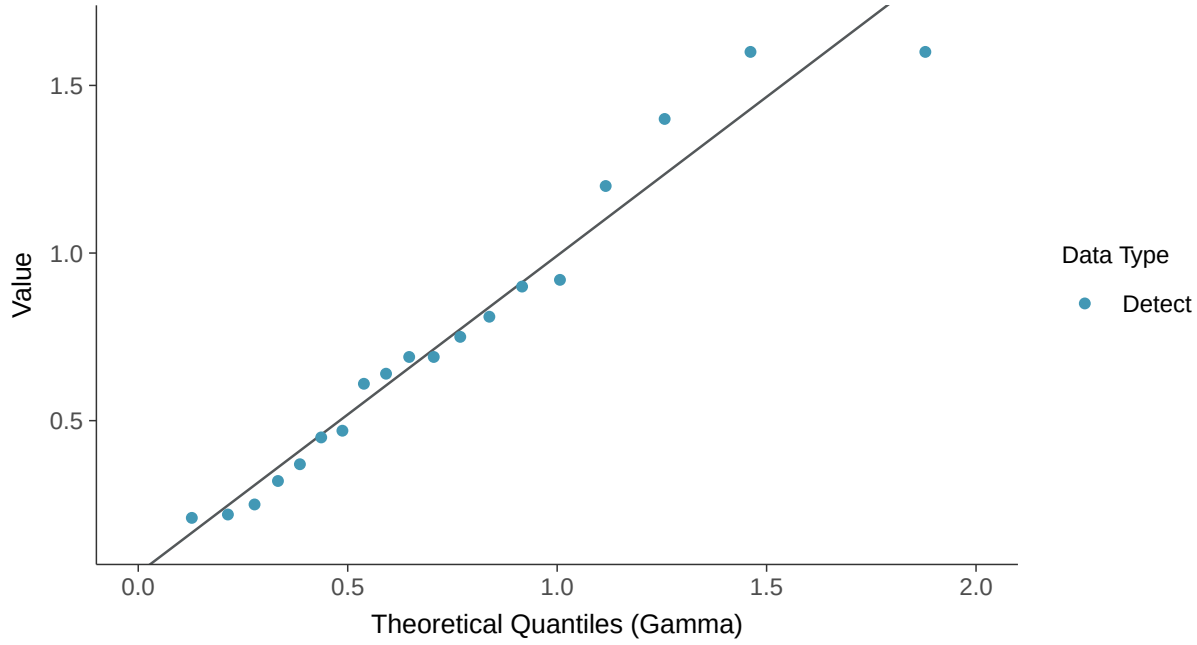
Lognormal Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



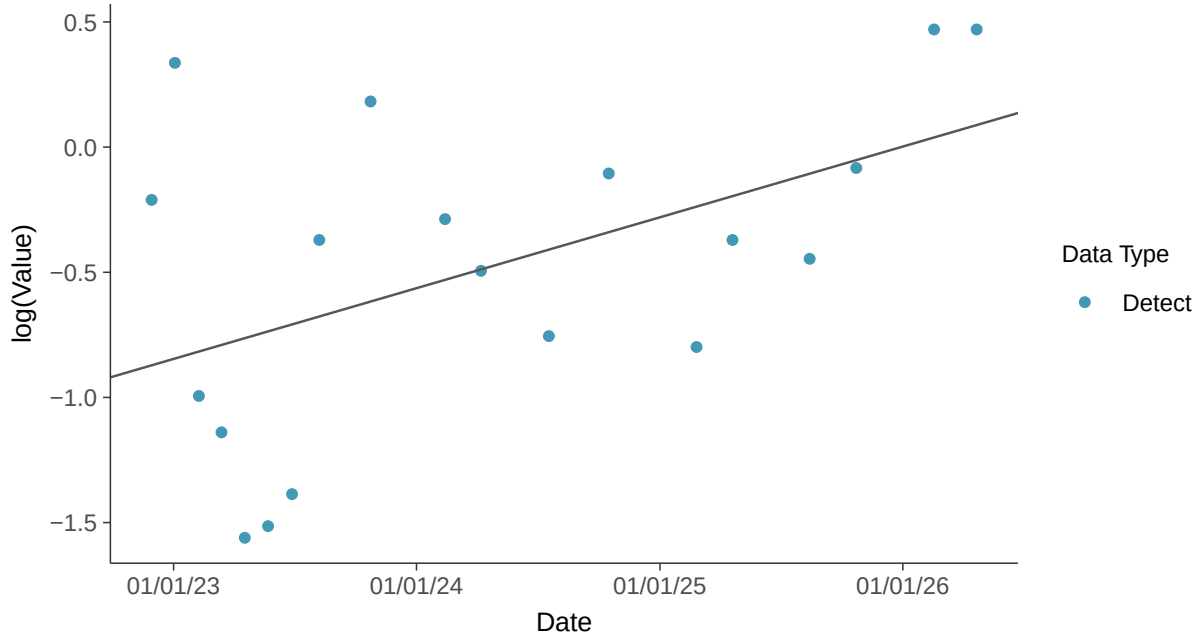
Gamma Q-Q plot

Fluoride (App IV), MW-11 (mg/L)



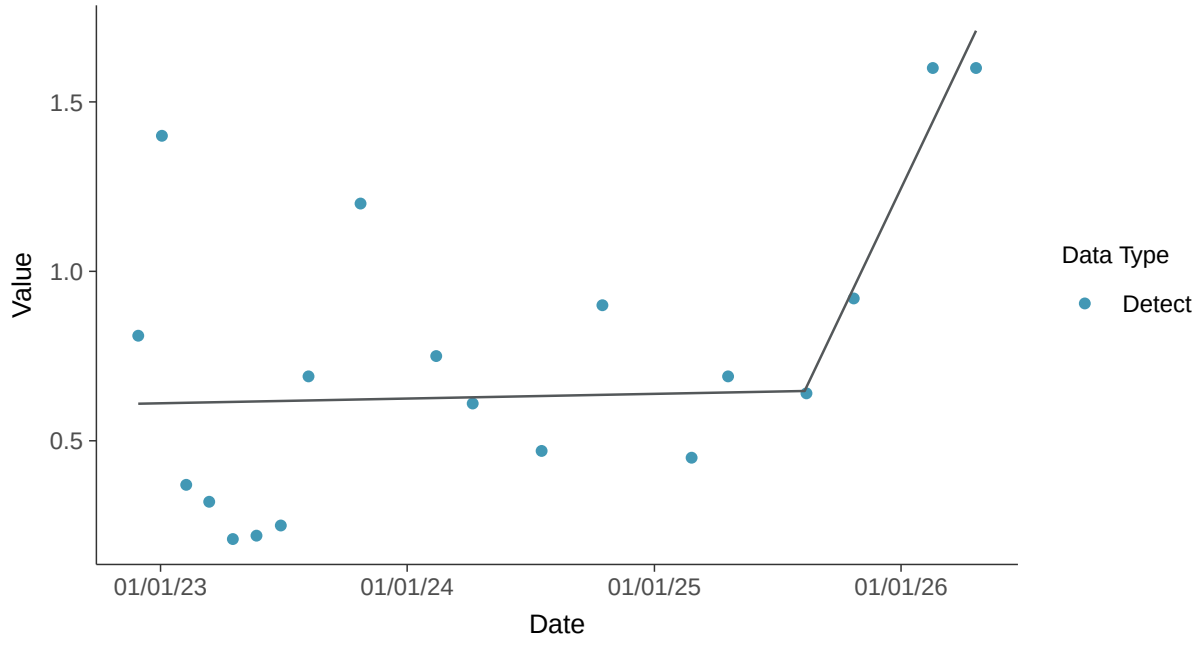
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-11 (mg/L)



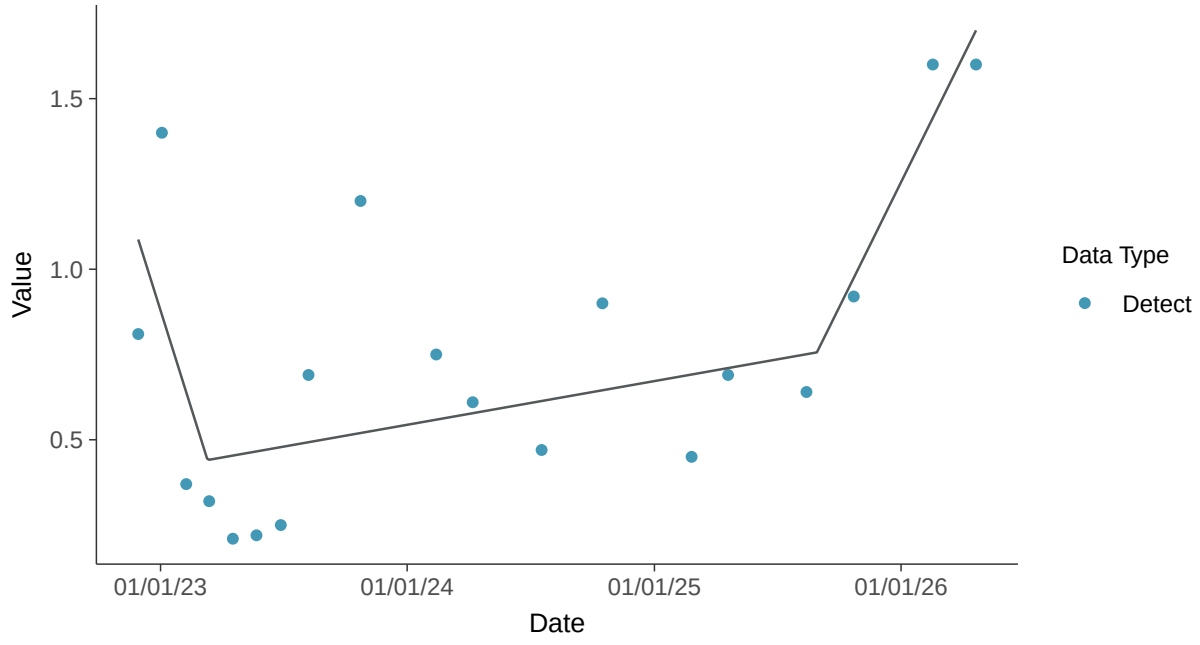
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-11 (mg/L)



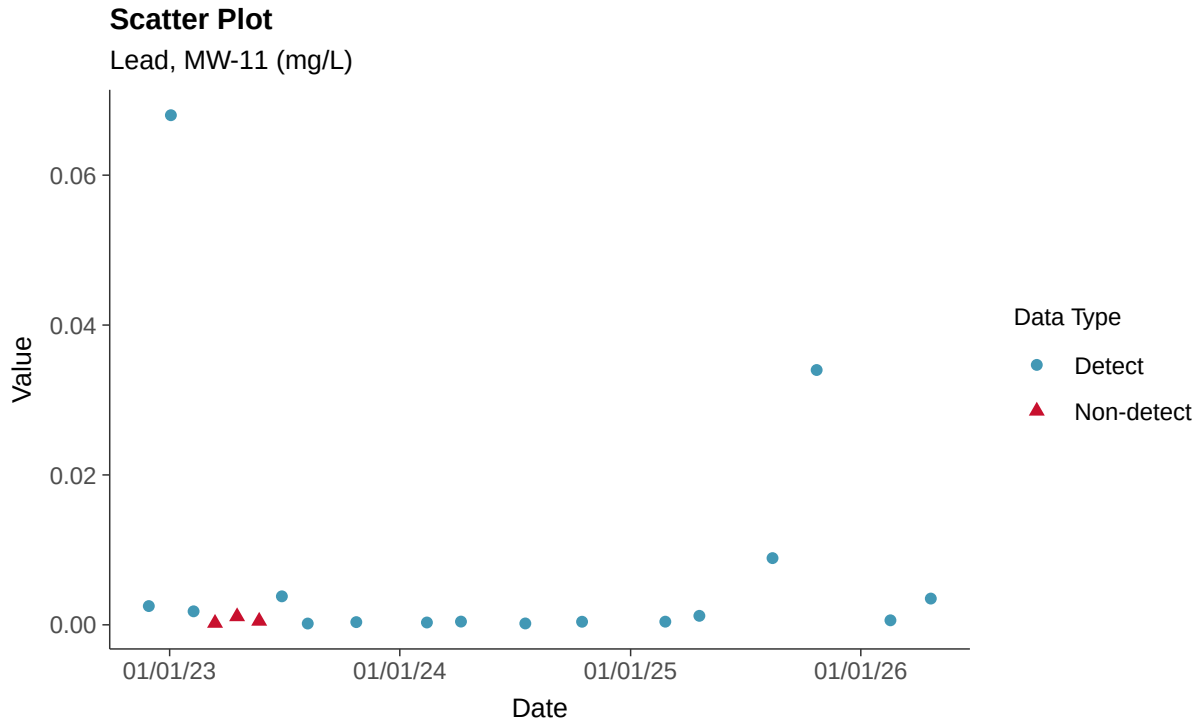
Trend Regression: Piecewise Linear-Linear-Linear

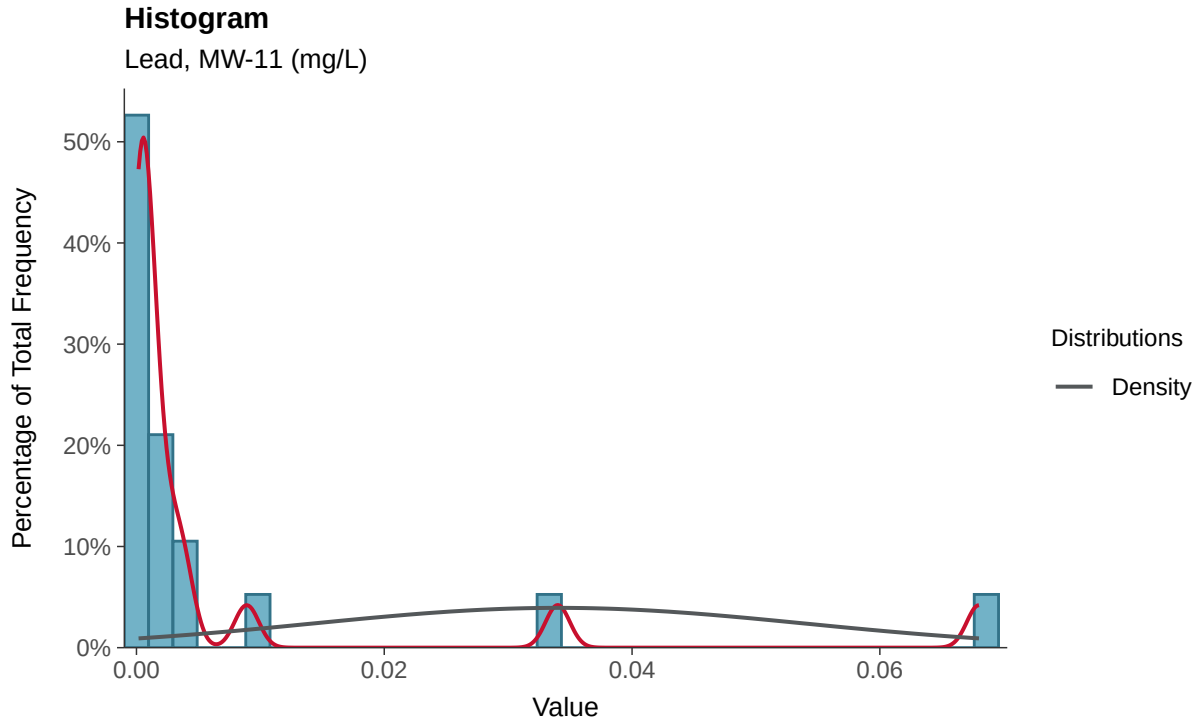
Fluoride (App IV), MW-11 (mg/L)



Appendix IV: Lead, MW-11

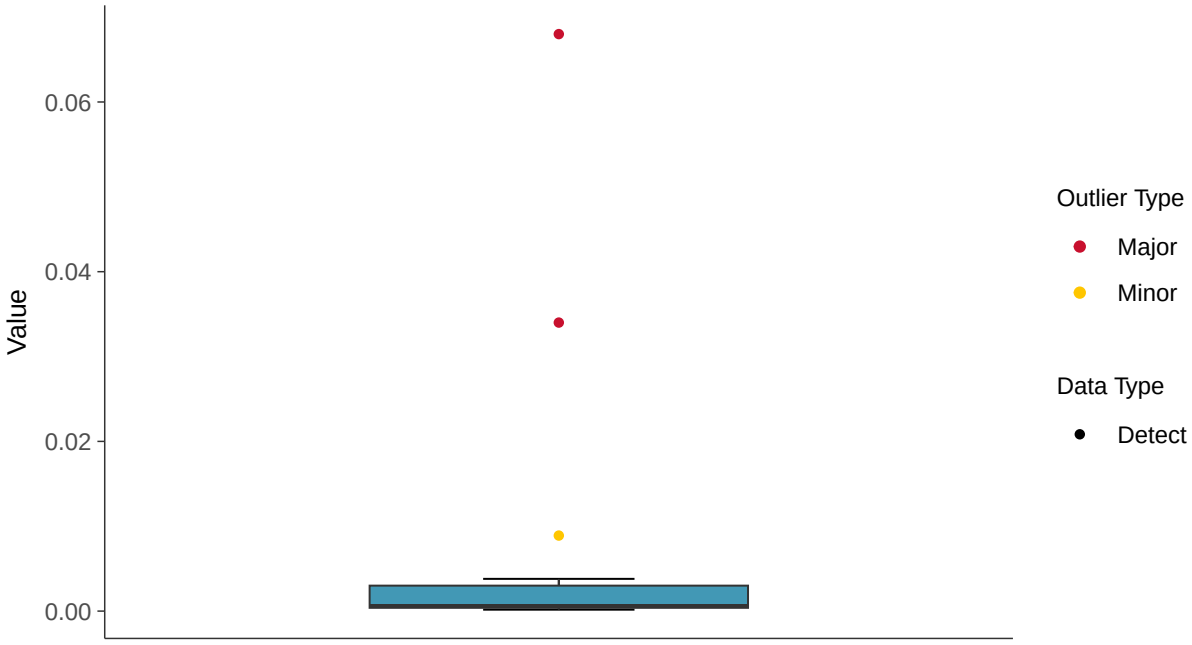
ID: 21_2_4_115





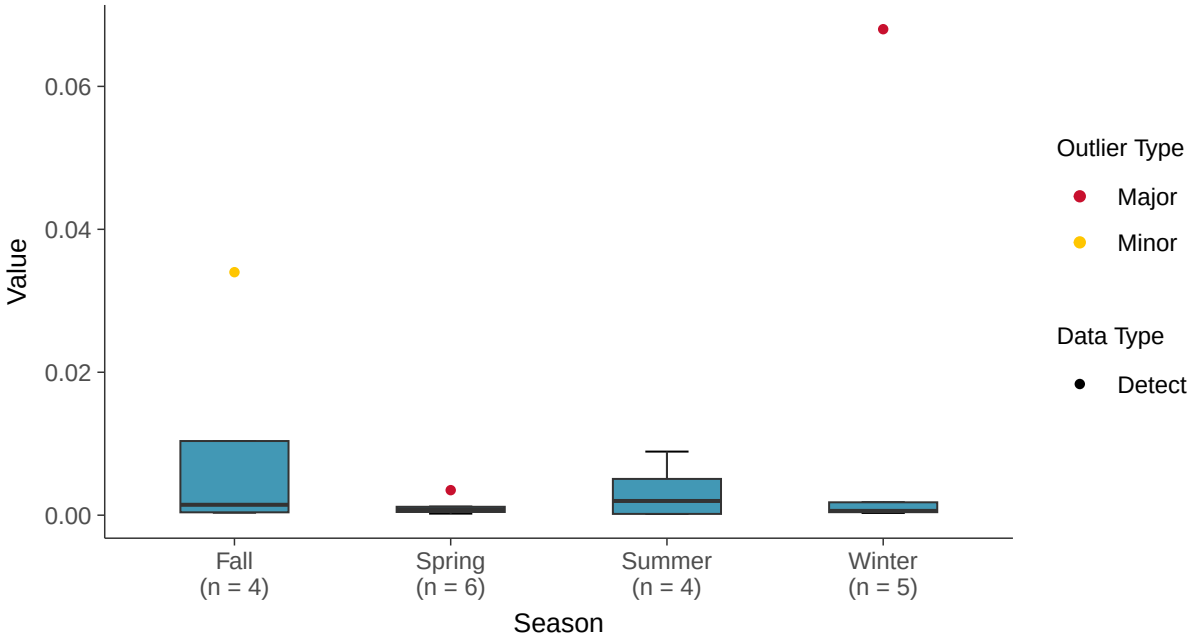
Boxplot

Lead, MW-11 (mg/L)



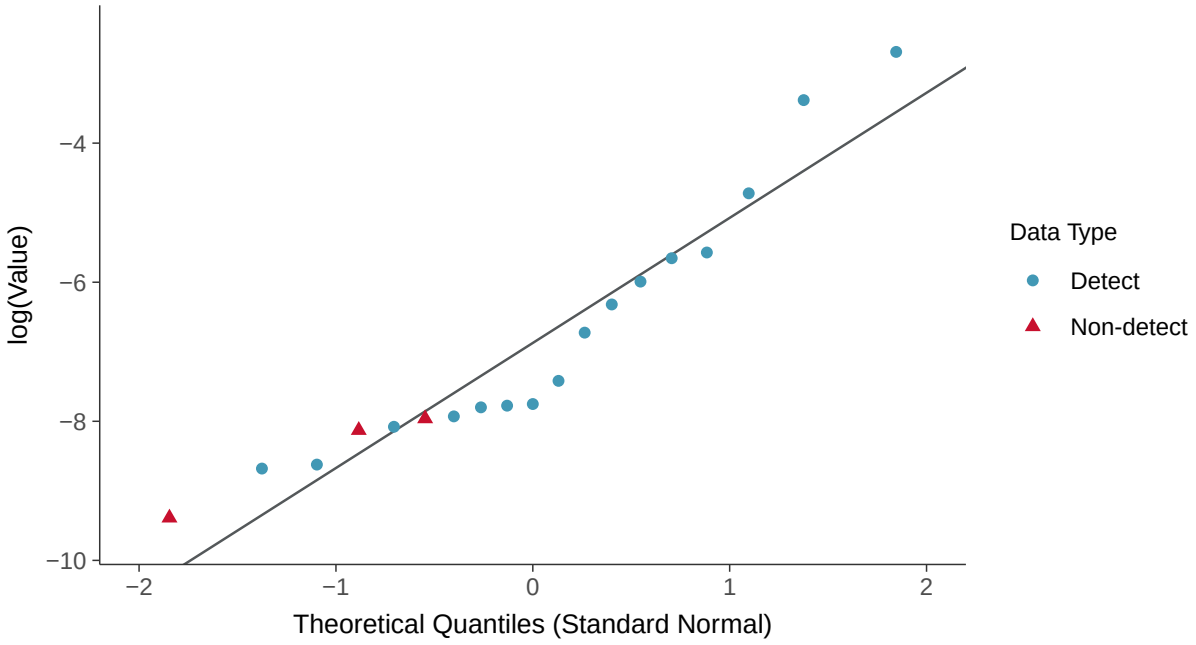
Boxplot by Season

Lead, MW-11 (mg/L)



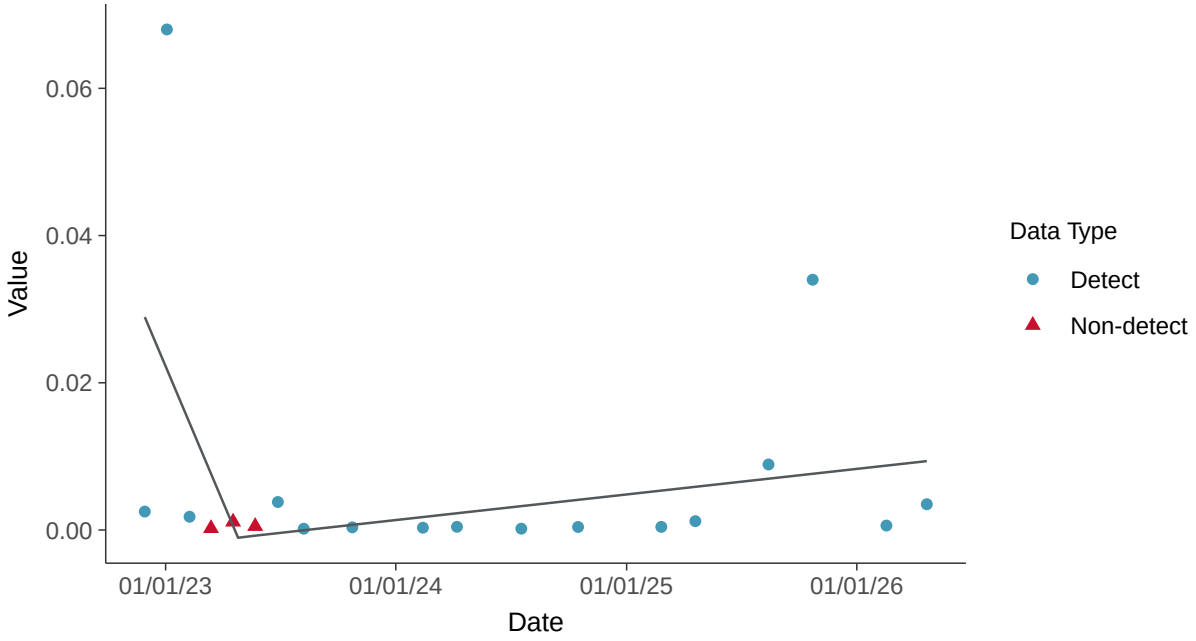
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-11 (mg/L)



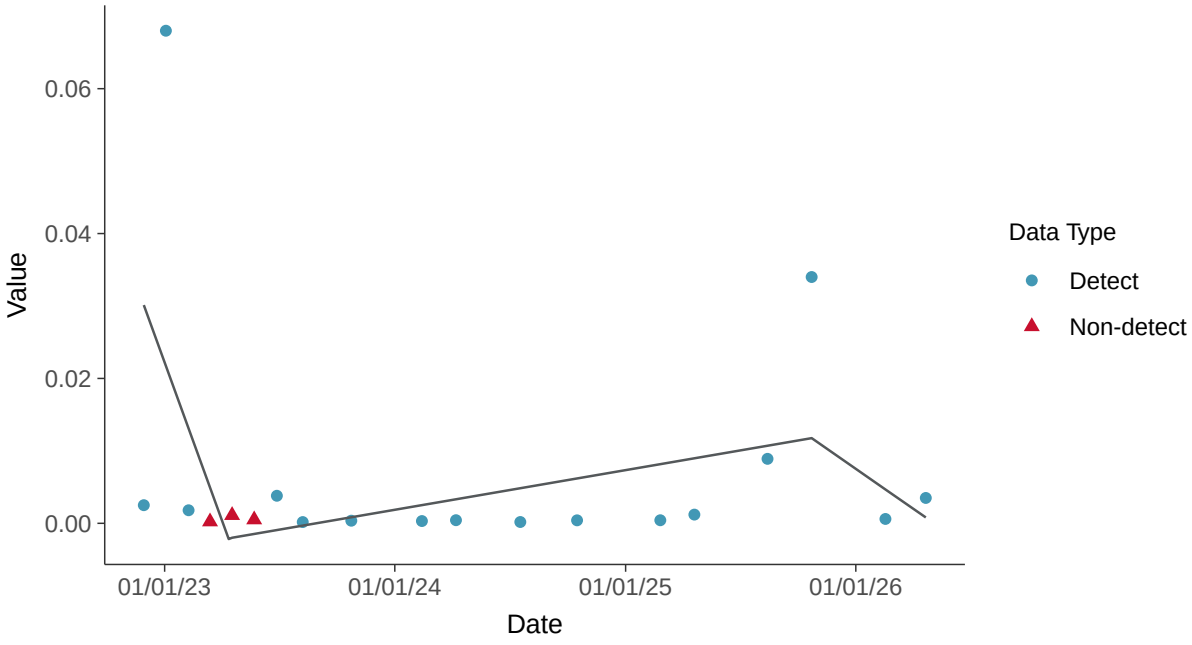
Trend Regression: Piecewise Linear-Linear

Lead, MW-11 (mg/L)



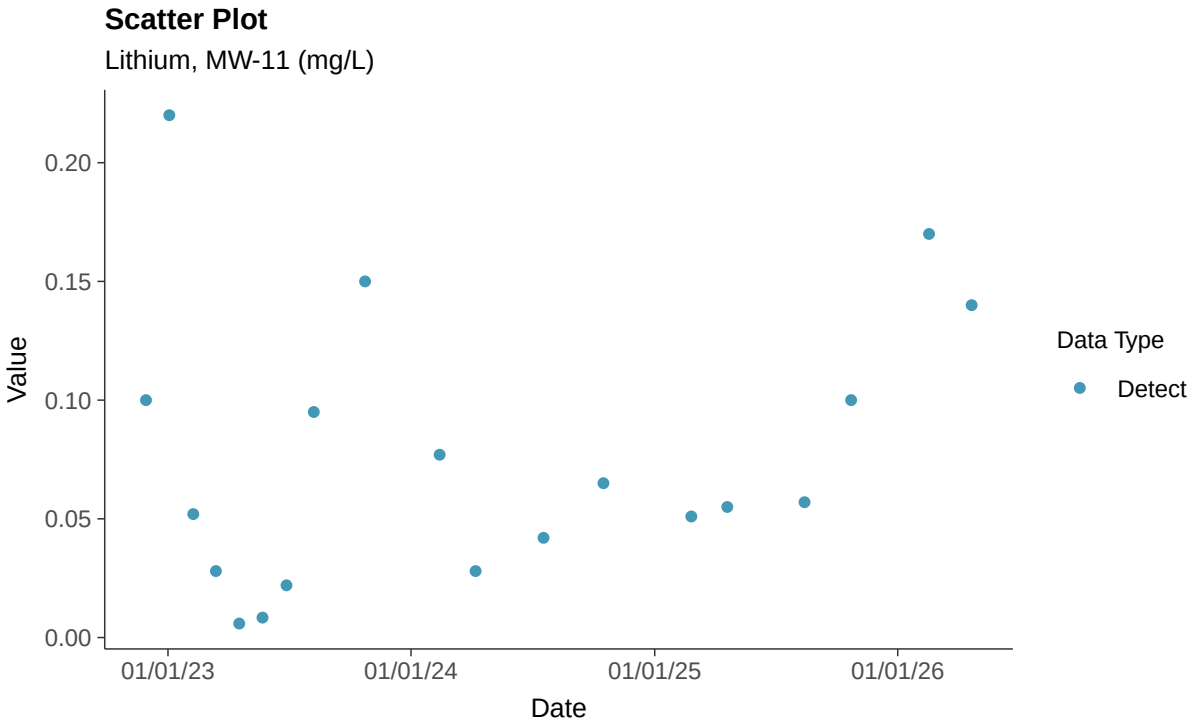
Trend Regression: Piecewise Linear-Linear-Linear

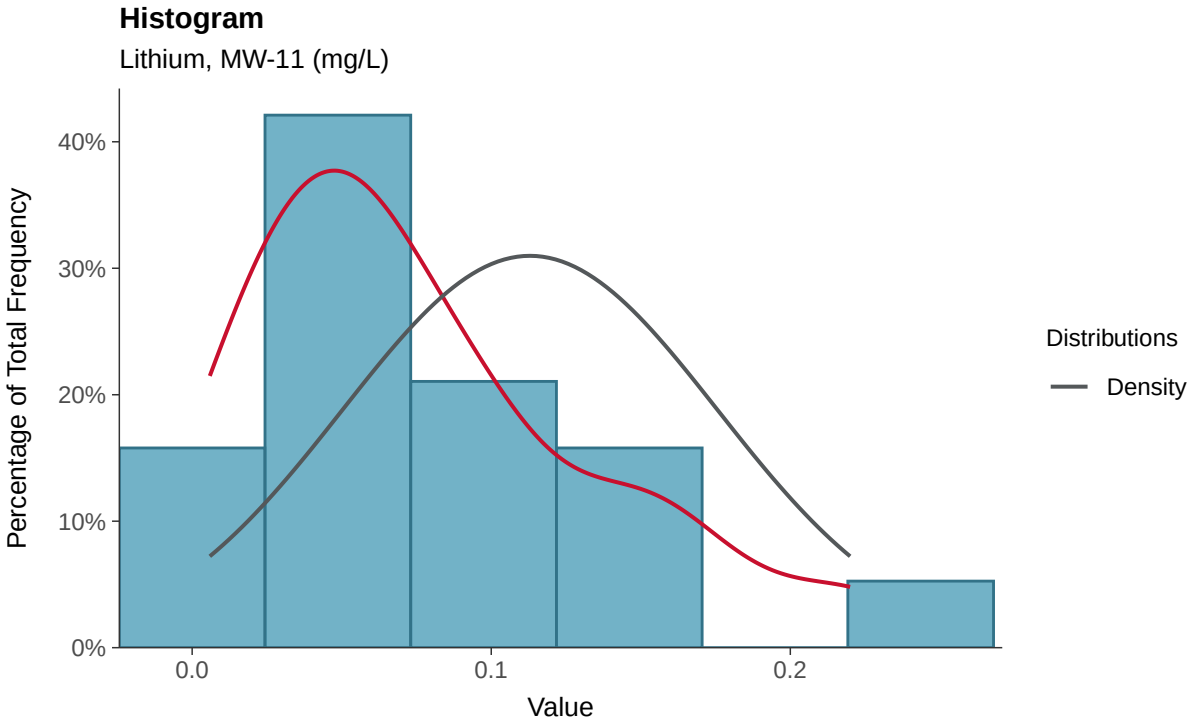
Lead, MW-11 (mg/L)



Appendix IV: Lithium, MW-11

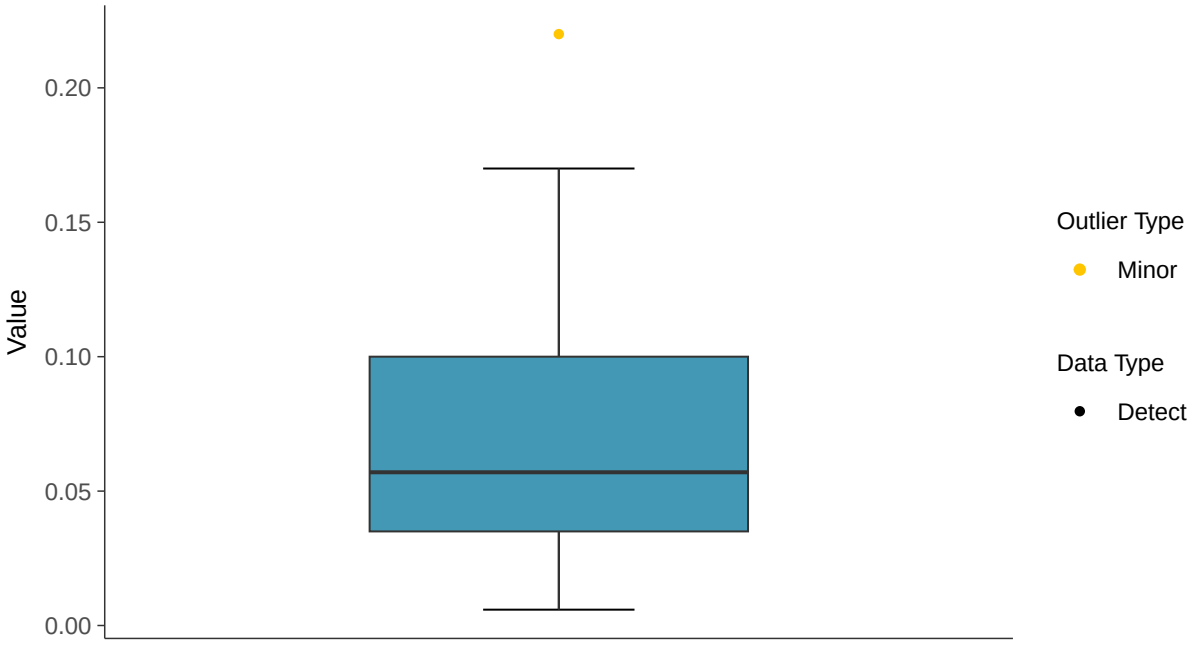
ID: 21_2_4_116





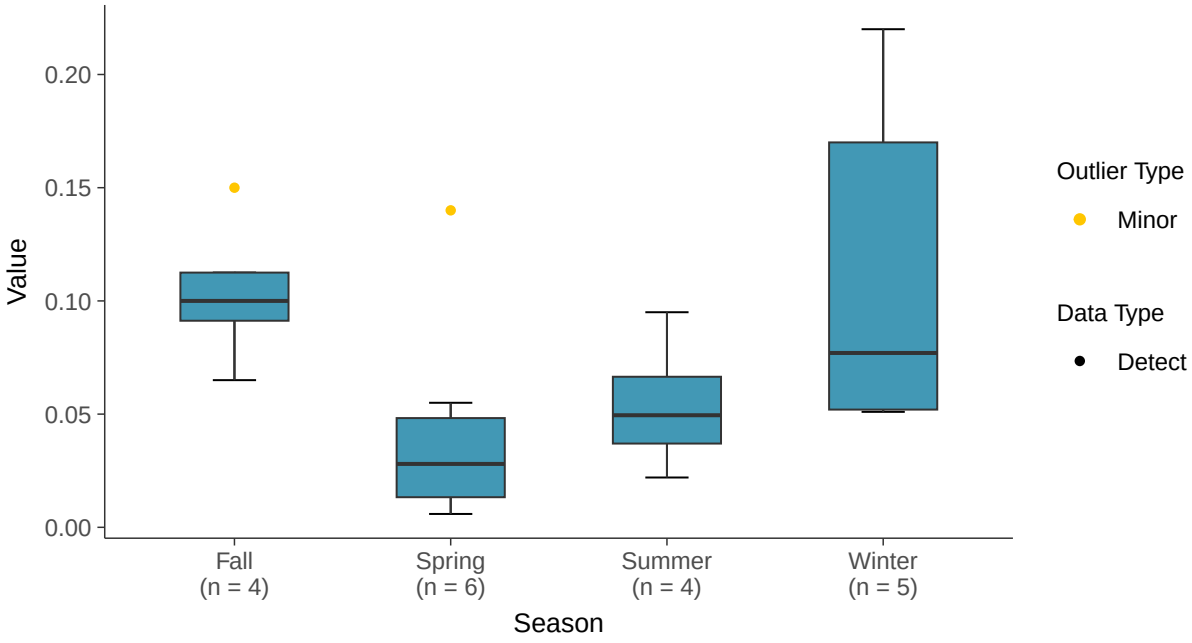
Boxplot

Lithium, MW-11 (mg/L)



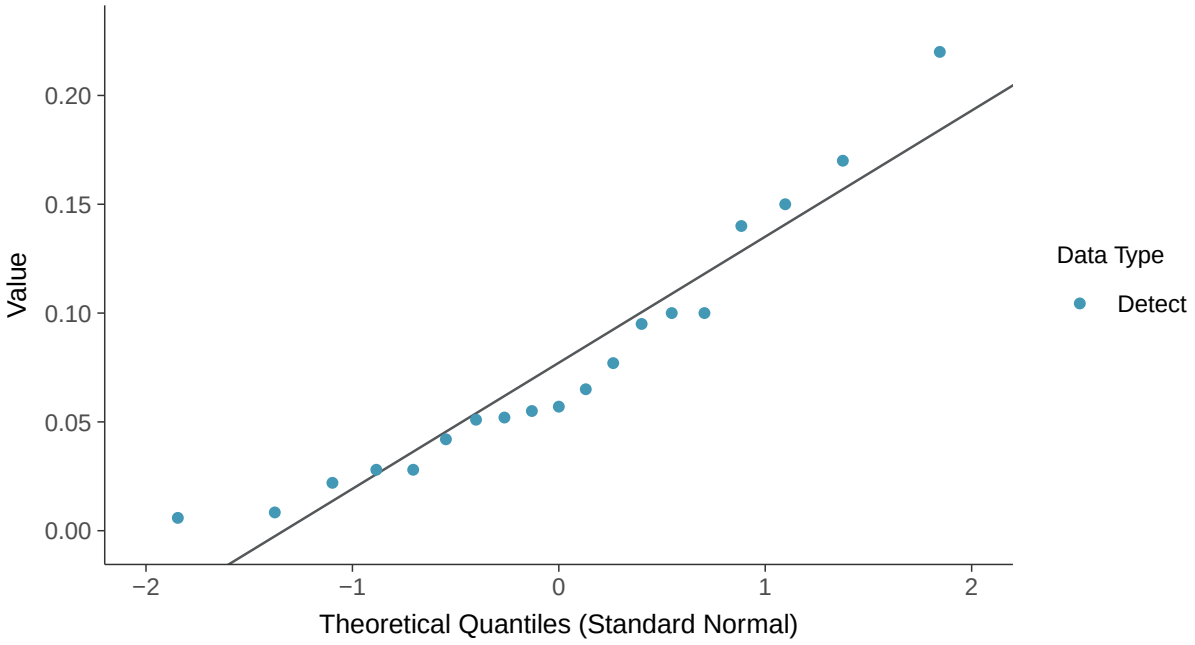
Boxplot by Season

Lithium, MW-11 (mg/L)



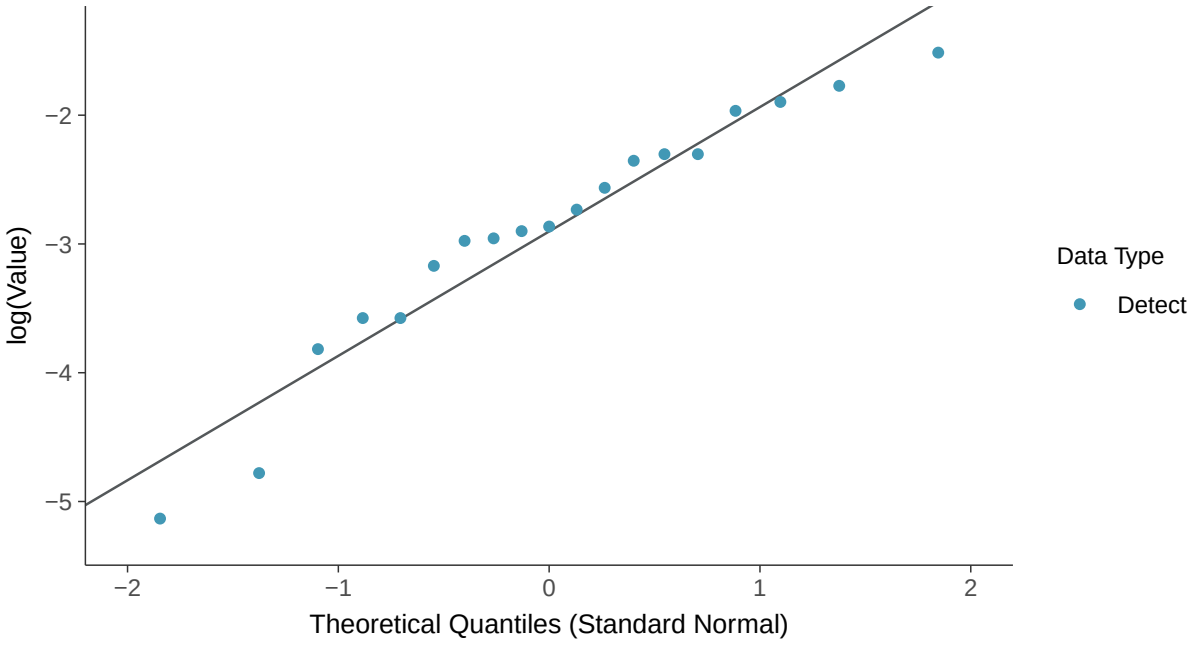
Normal Q-Q plot

Lithium, MW-11 (mg/L)



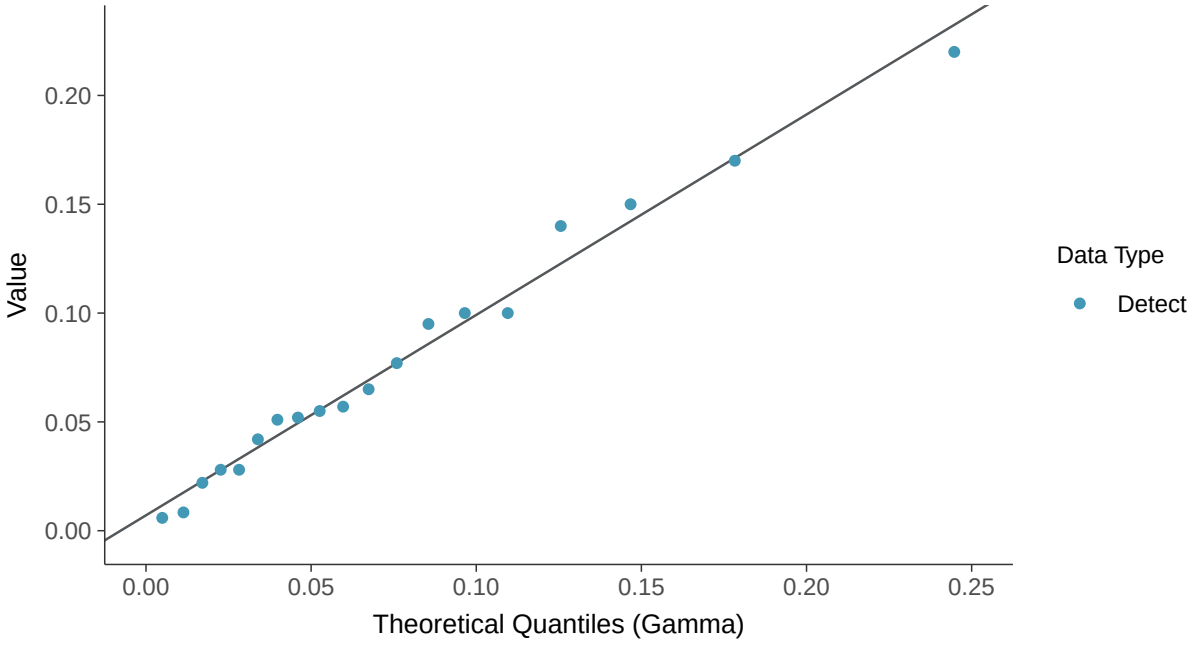
Lognormal Q-Q plot

Lithium, MW-11 (mg/L)



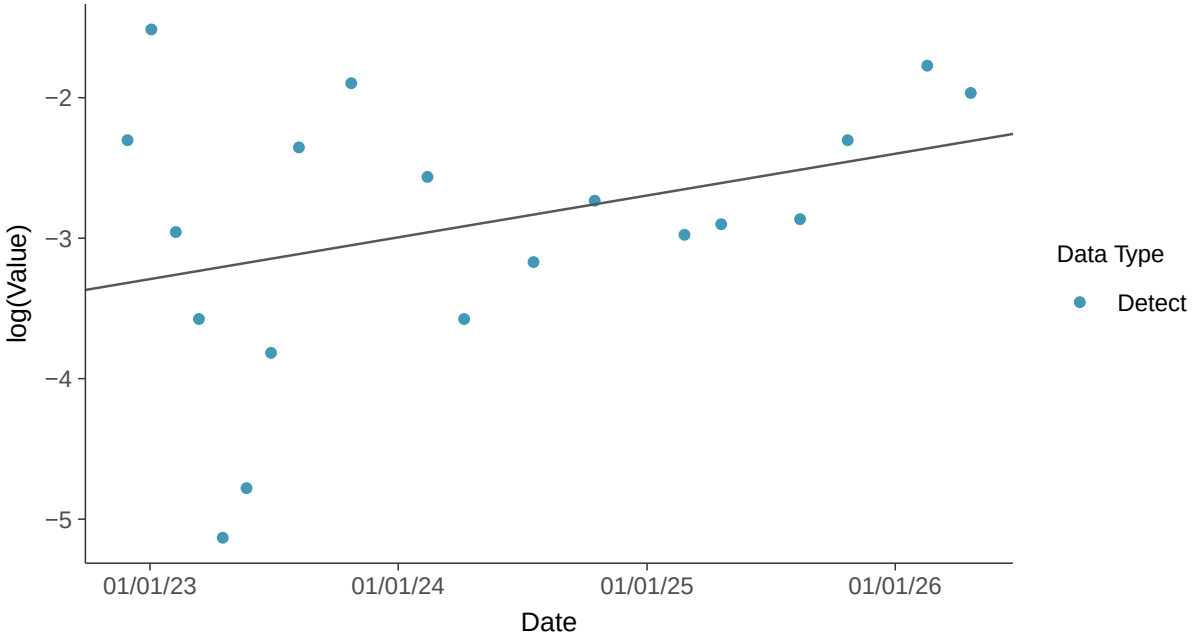
Gamma Q-Q plot

Lithium, MW-11 (mg/L)



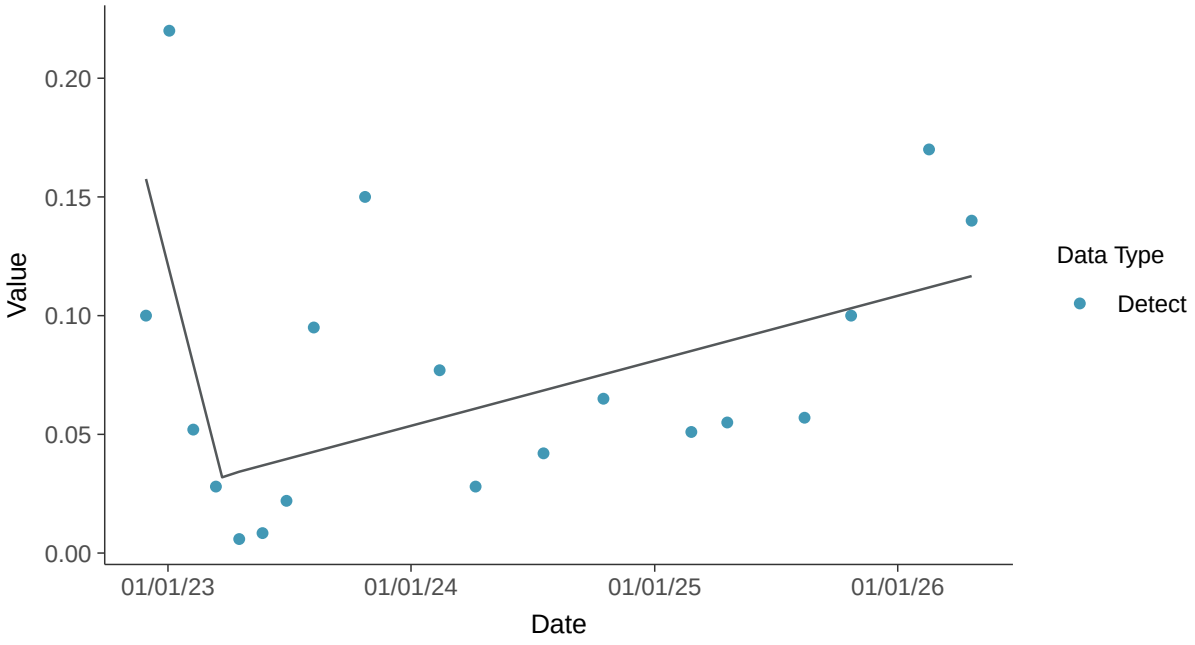
Trend Regression: Lognormal MLE

Lithium, MW-11 (mg/L)



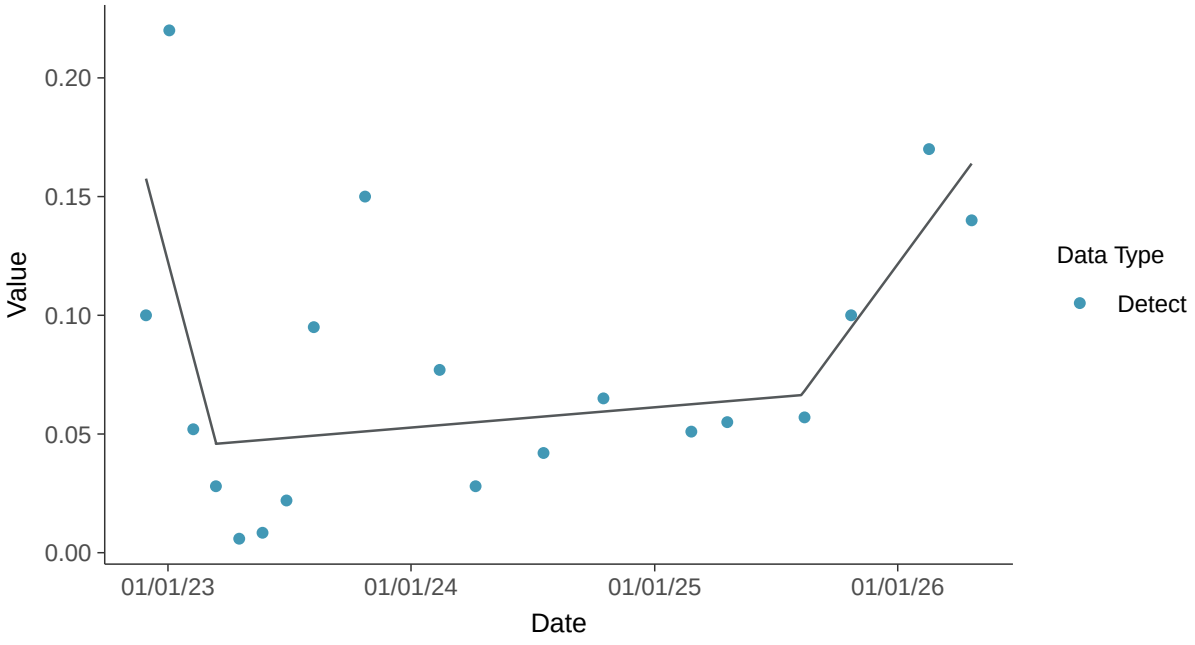
Trend Regression: Piecewise Linear-Linear

Lithium, MW-11 (mg/L)



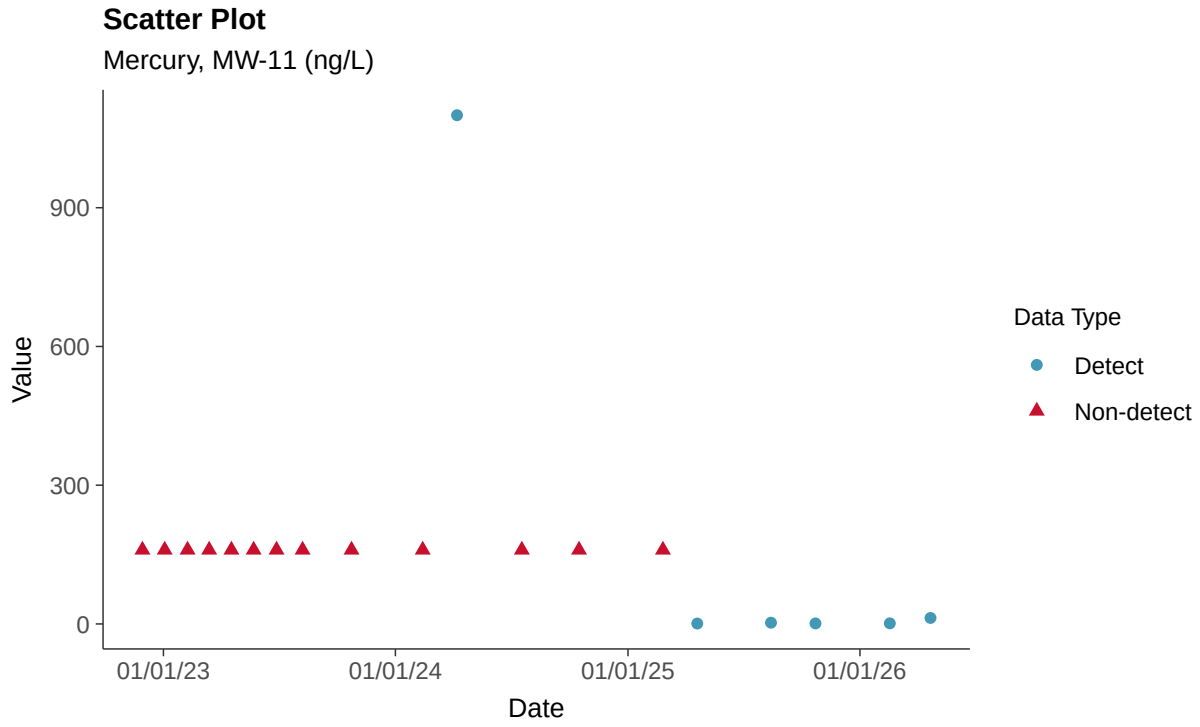
Trend Regression: Piecewise Linear-Linear-Linear

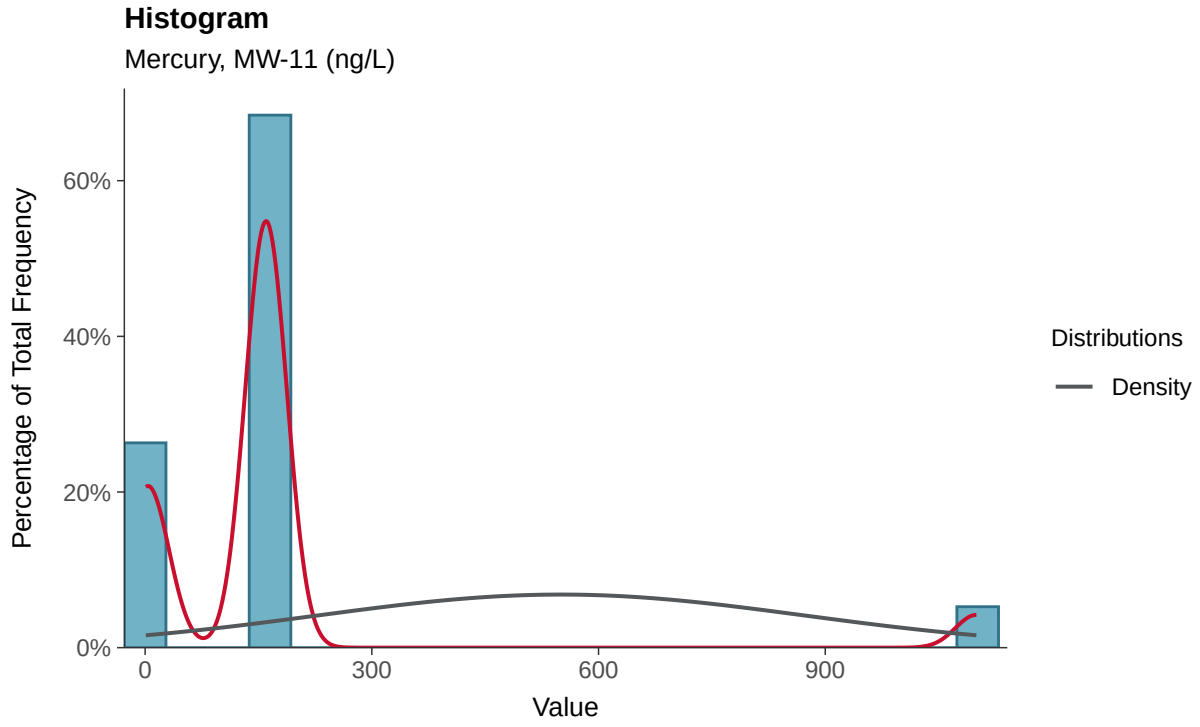
Lithium, MW-11 (mg/L)



Appendix IV: Mercury, MW-11

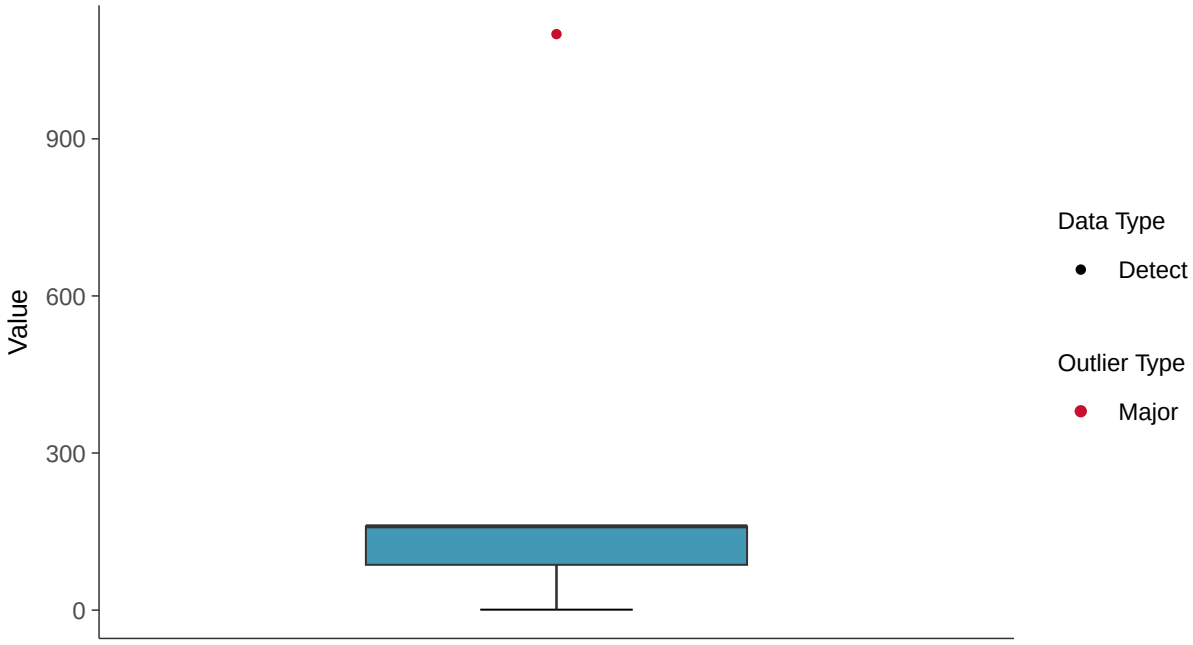
ID: 21_2_4_117





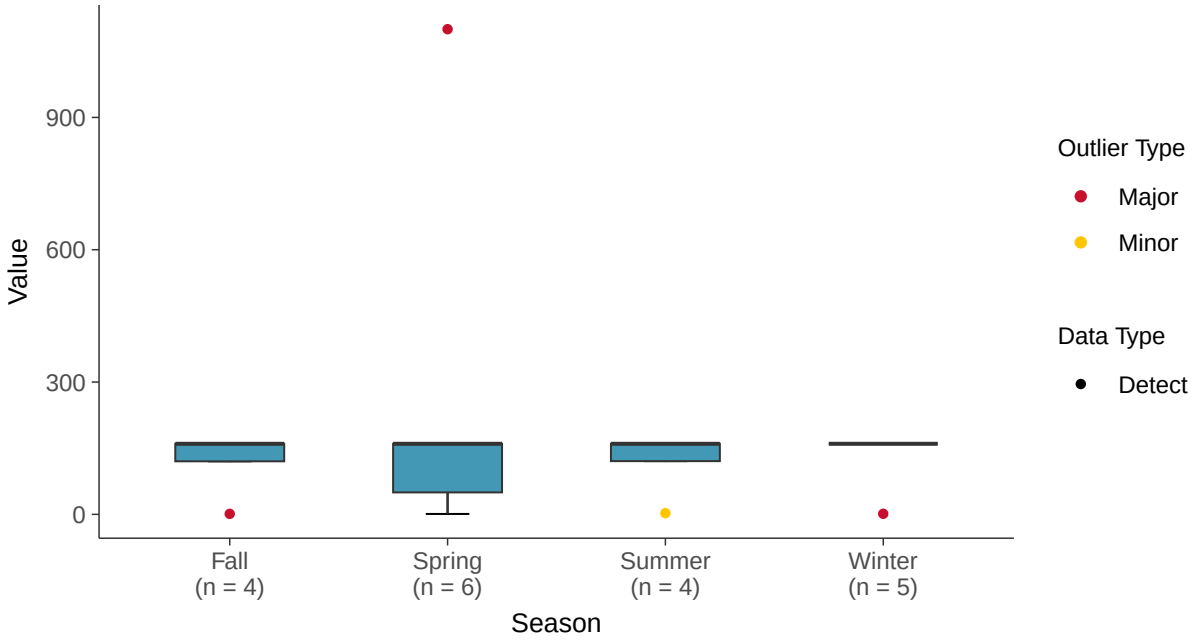
Boxplot

Mercury, MW-11 (ng/L)



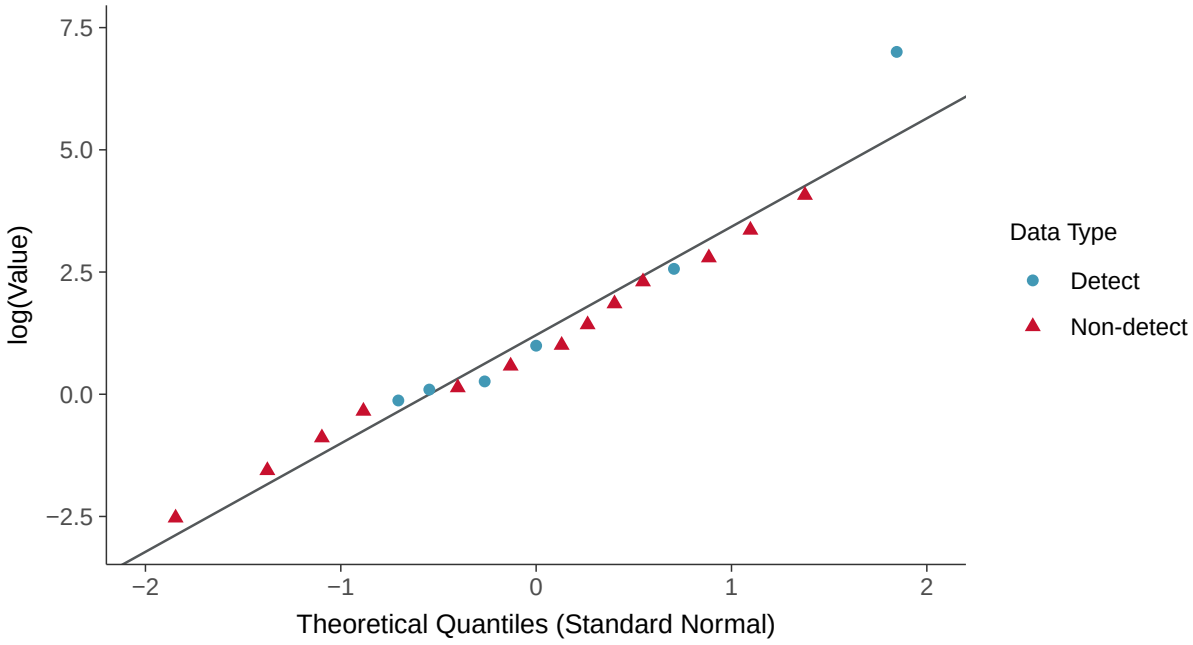
Boxplot by Season

Mercury, MW-11 (ng/L)



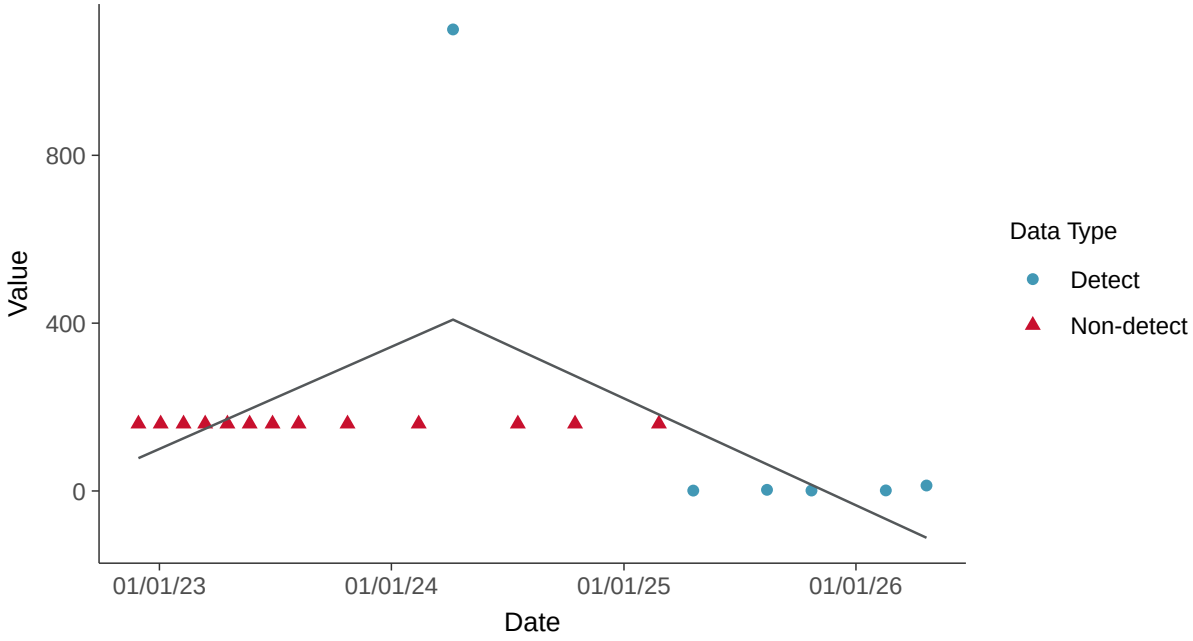
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-11 (ng/L)



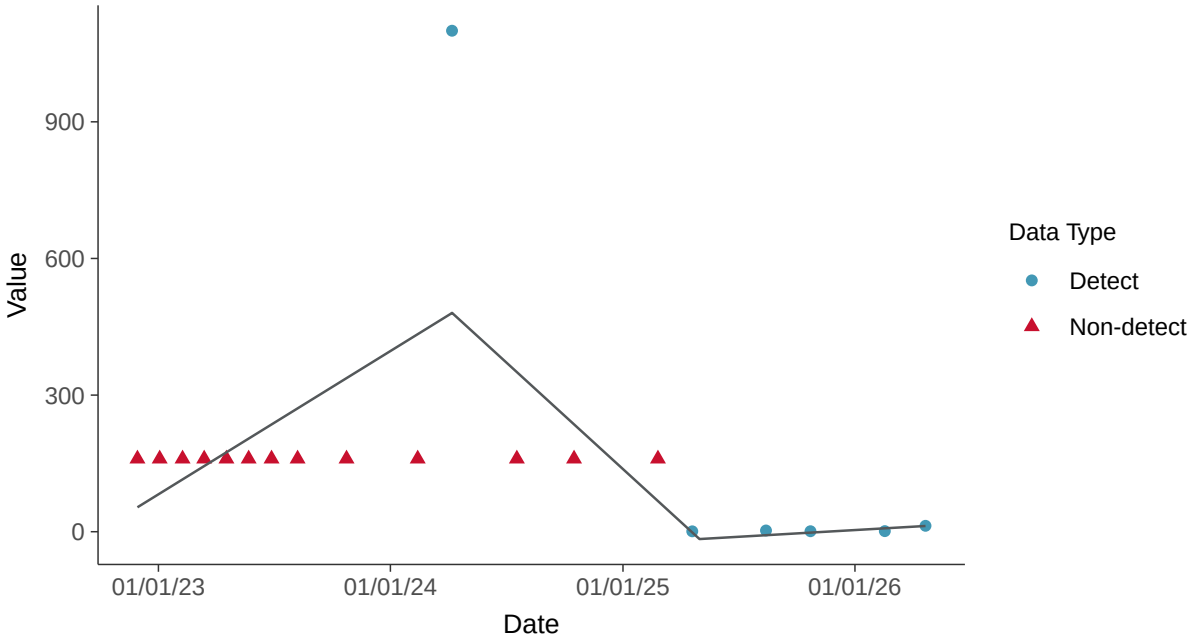
Trend Regression: Piecewise Linear-Linear

Mercury, MW-11 (ng/L)



Trend Regression: Piecewise Linear-Linear-Linear

Mercury, MW-11 (ng/L)

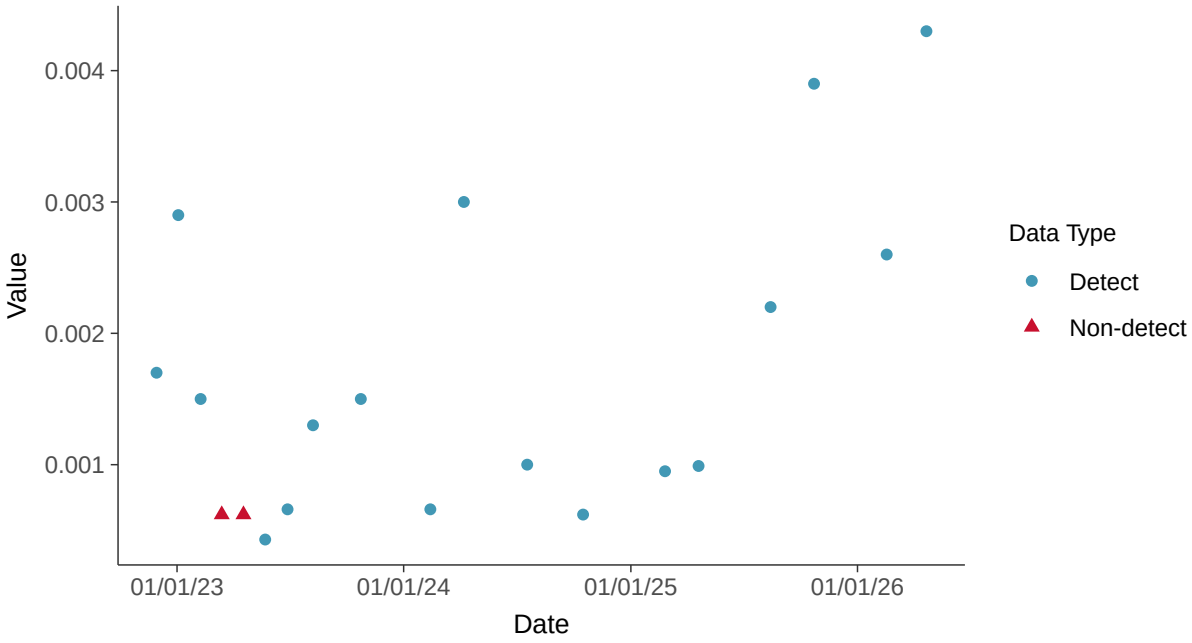


Appendix IV: Molybdenum, MW-11

ID: 21_2_4_118

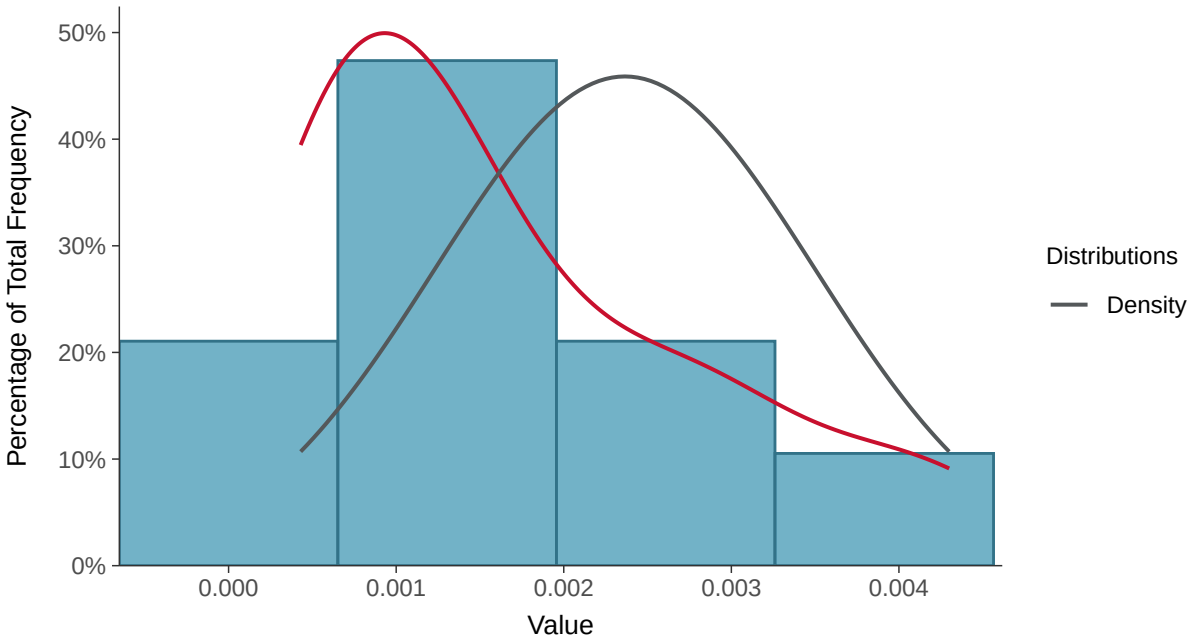
Scatter Plot

Molybdenum, MW-11 (mg/L)



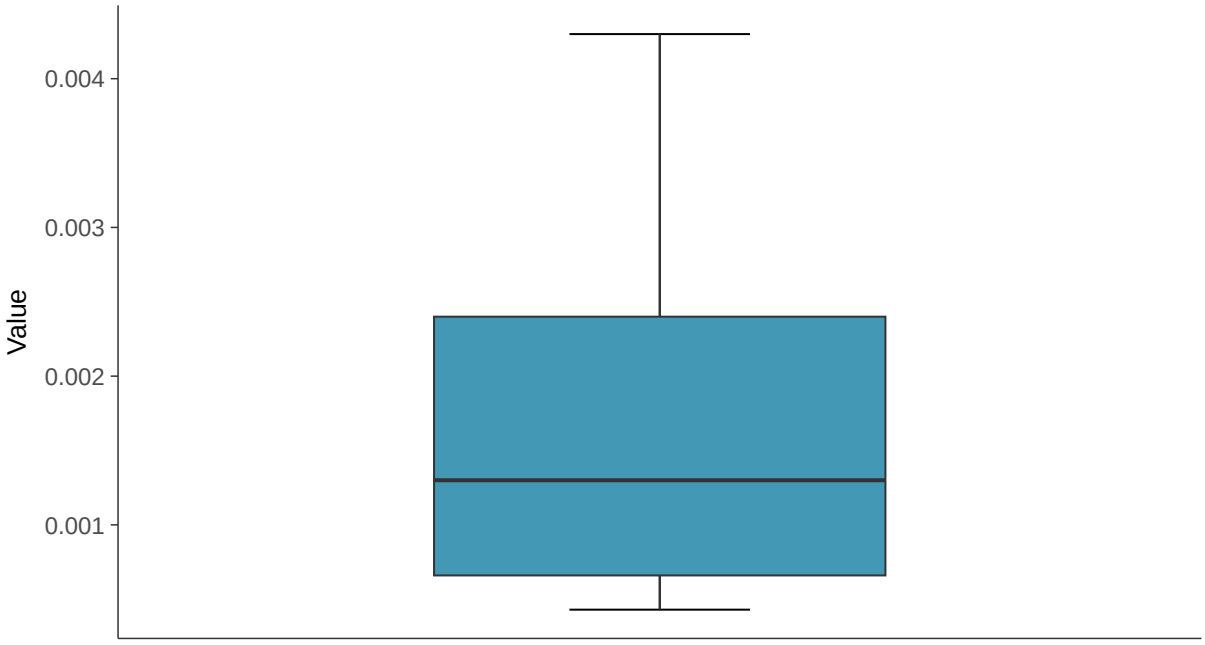
Histogram

Molybdenum, MW-11 (mg/L)



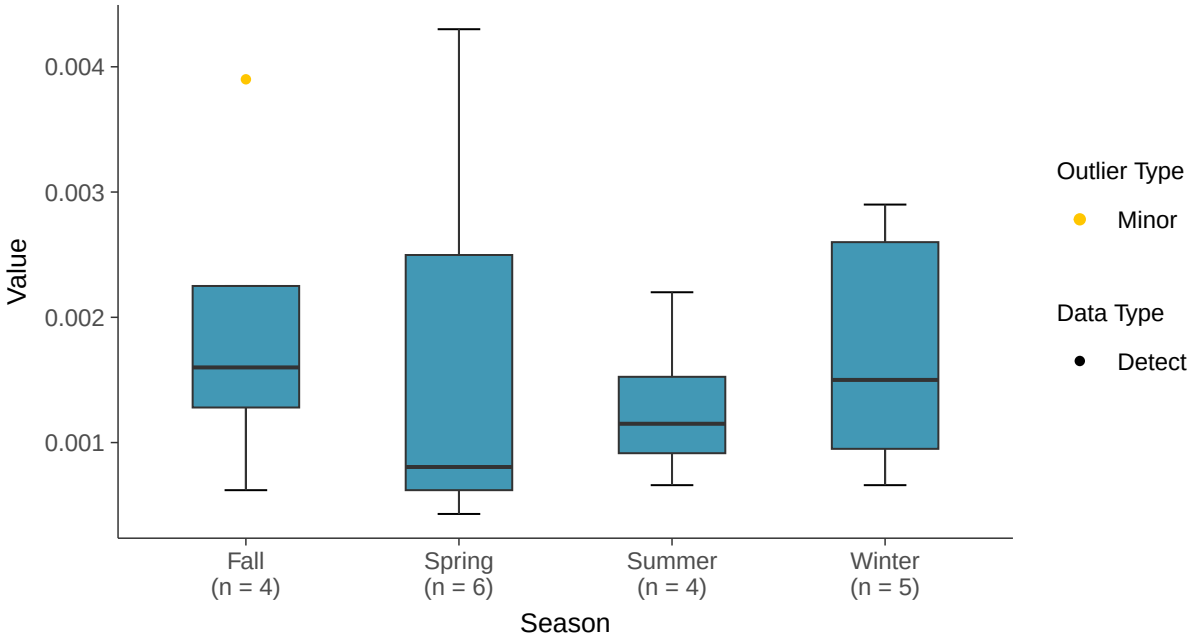
Boxplot

Molybdenum, MW-11 (mg/L)



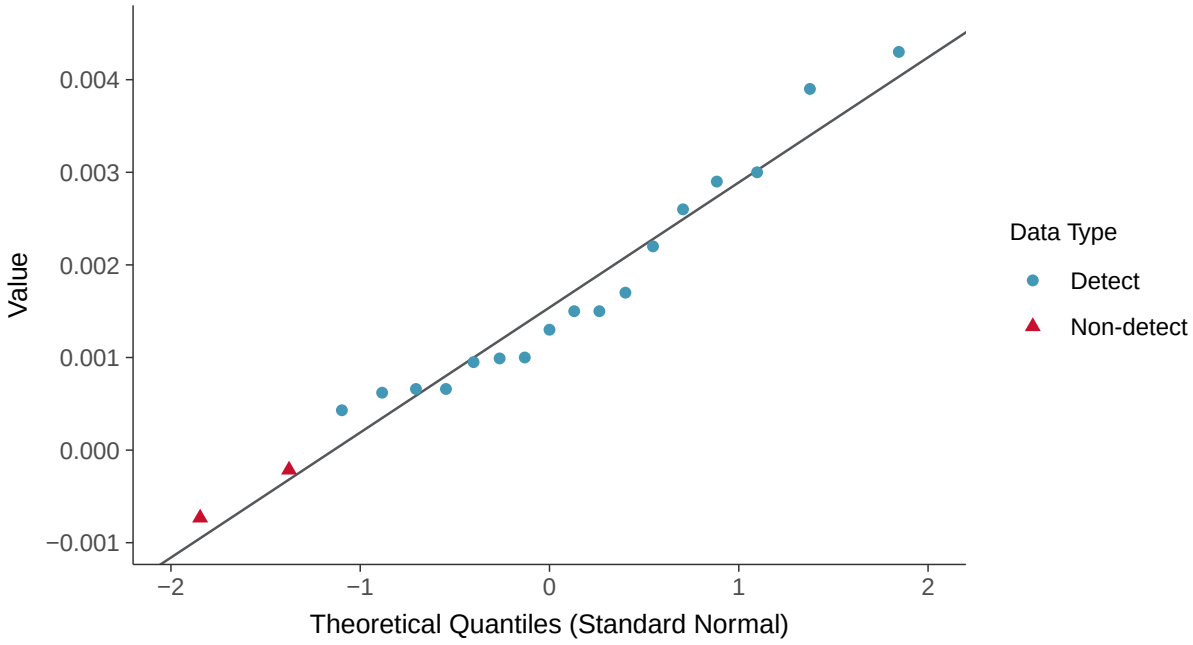
Boxplot by Season

Molybdenum, MW-11 (mg/L)



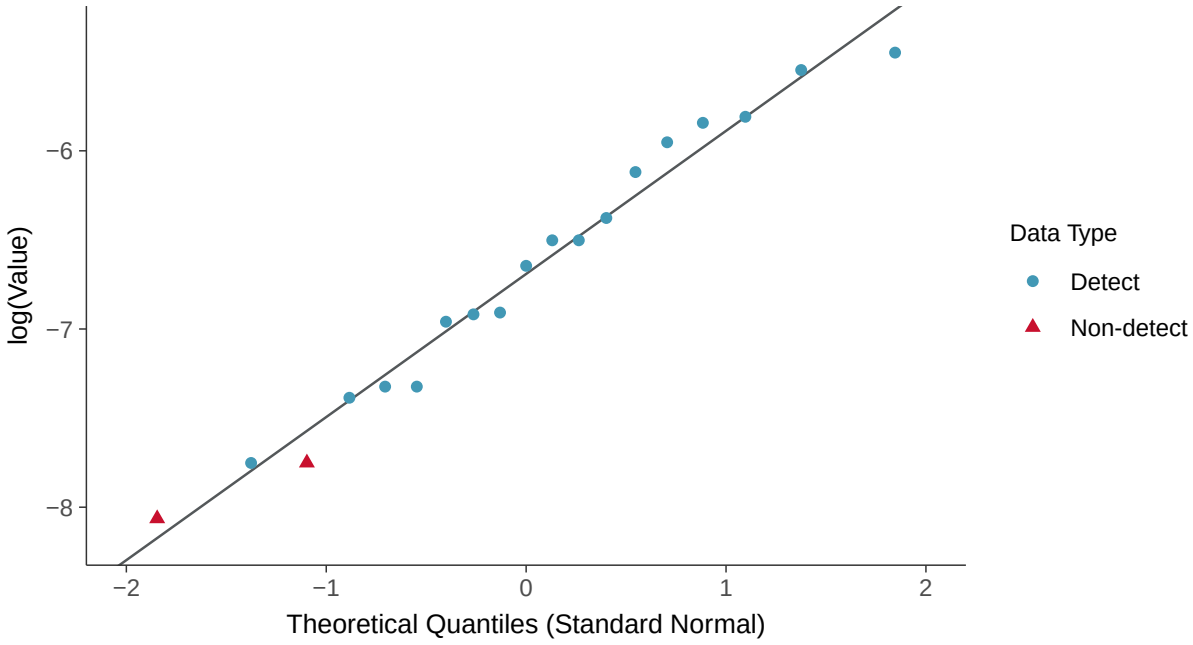
Normal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-11 (mg/L)



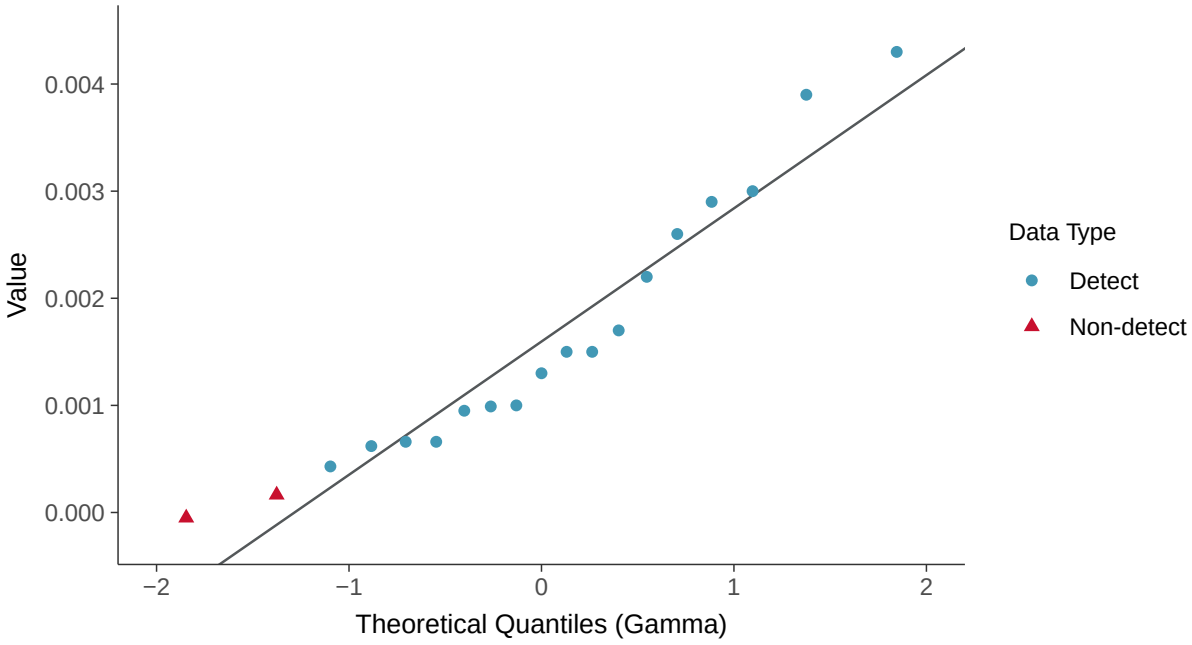
Lognormal Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-11 (mg/L)



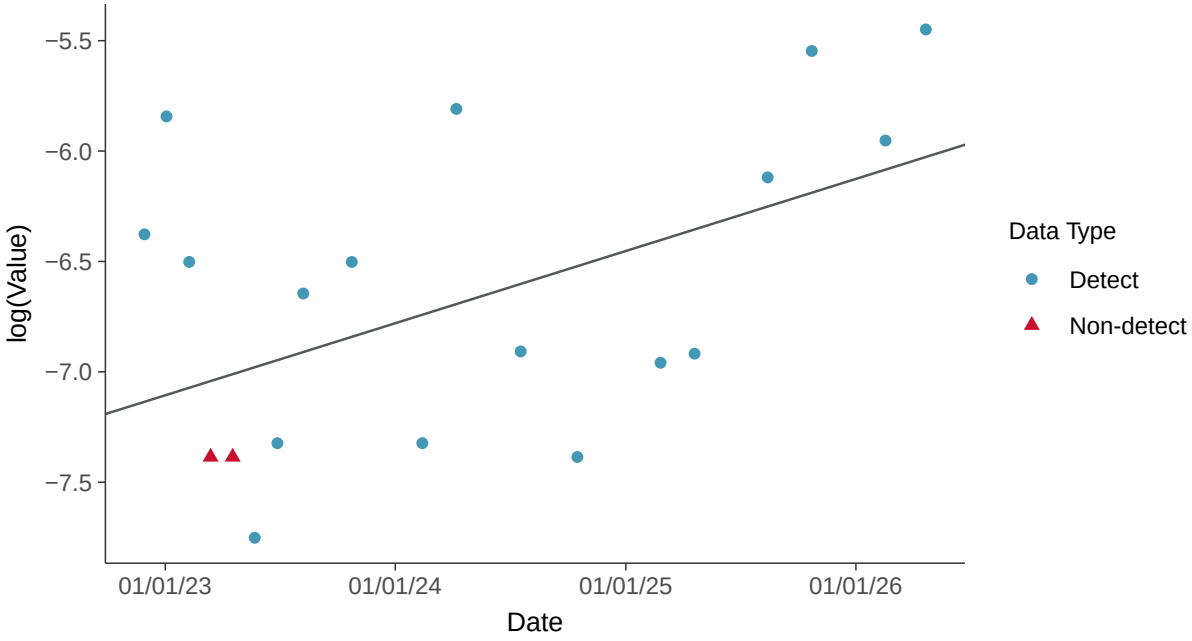
Gamma Q-Q plot using ROS Imputed Estimates

Molybdenum, MW-11 (mg/L)



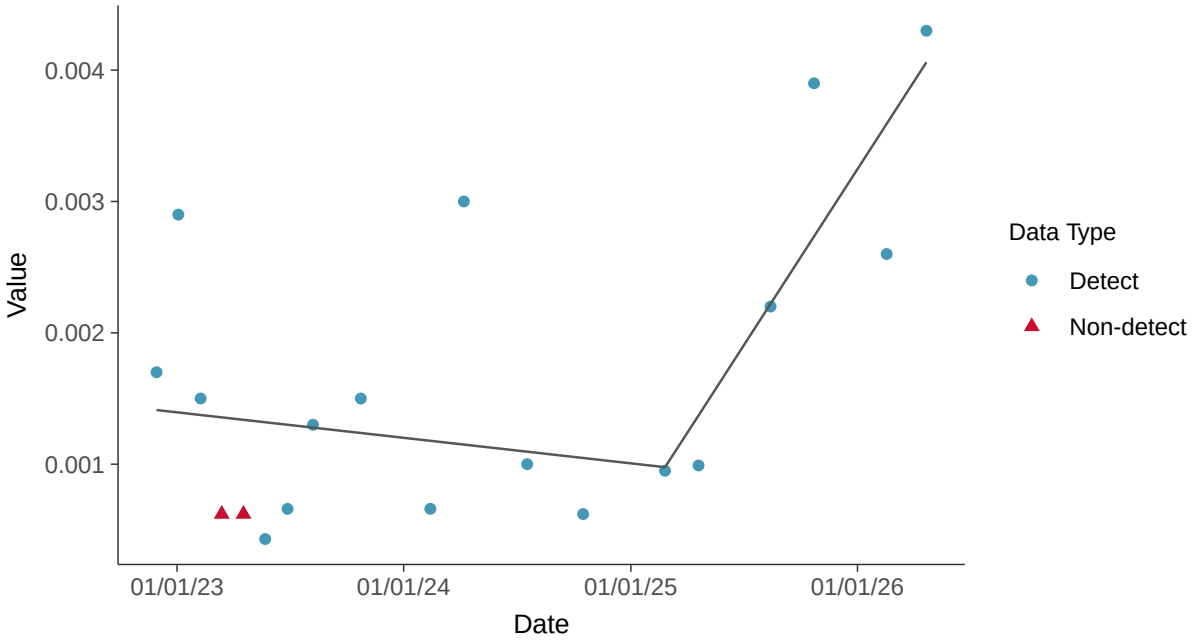
Trend Regression: Lognormal MLE

Molybdenum, MW-11 (mg/L)



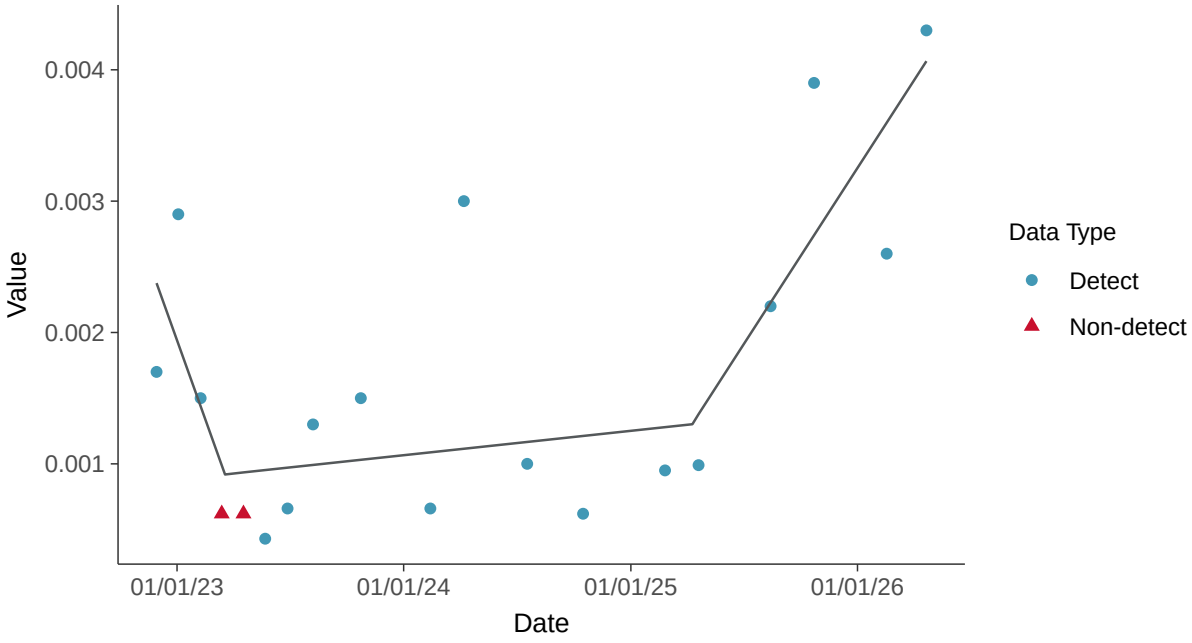
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-11 (mg/L)

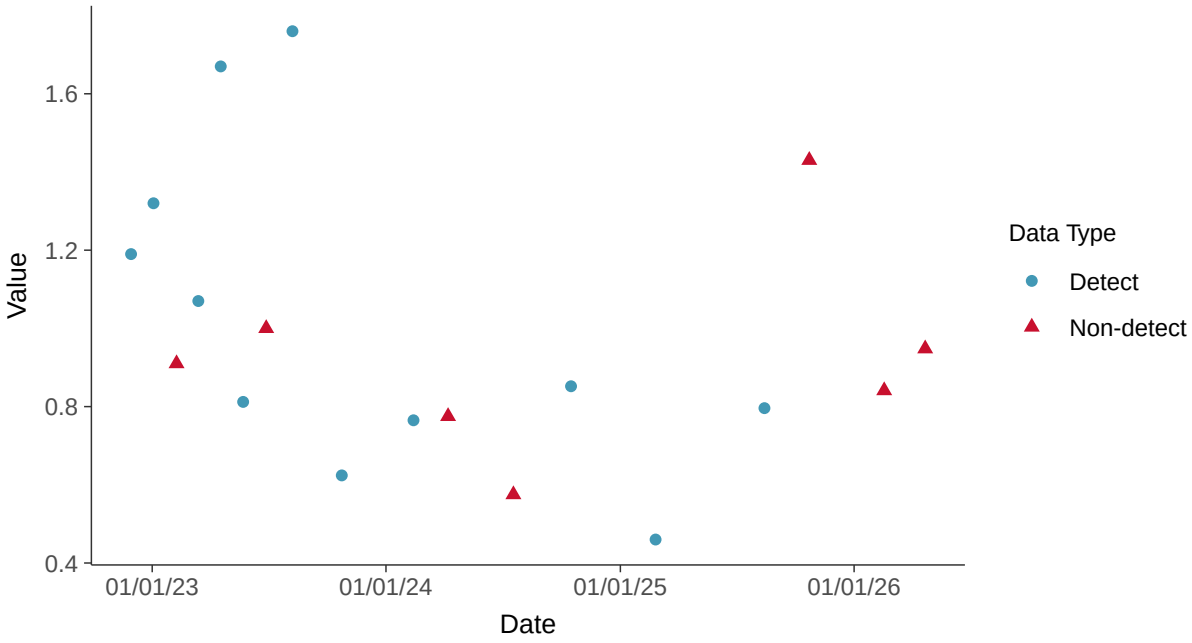


Appendix IV: Radium 226 and 228, MW-11

ID: 21_2_4_121

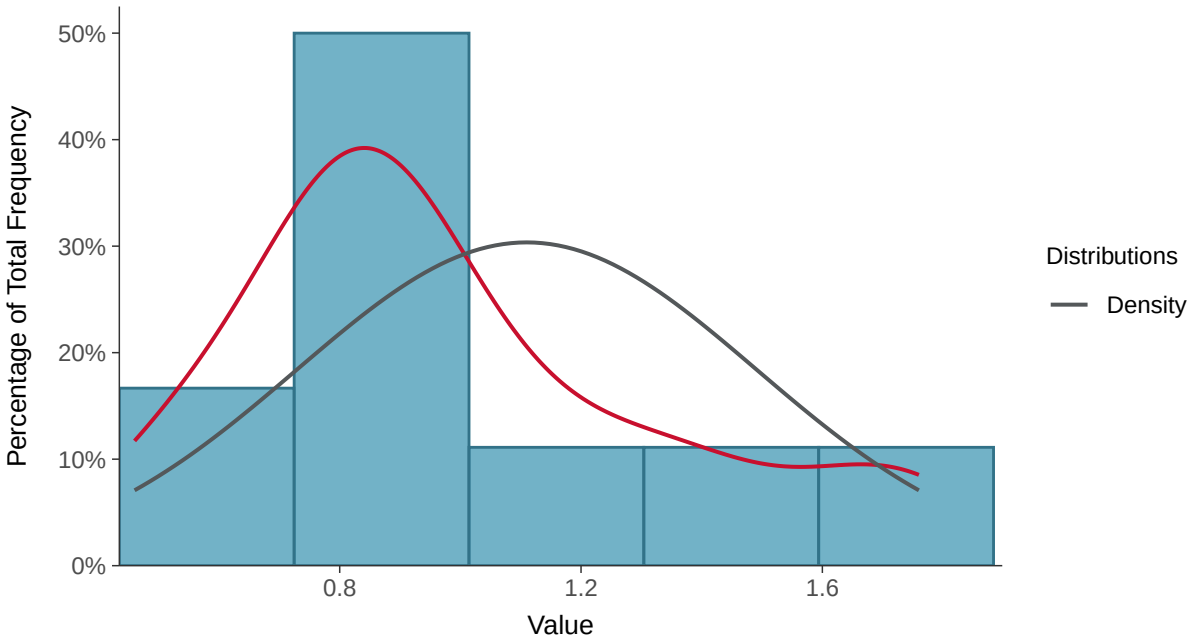
Scatter Plot

Radium 226 and 228, MW-11 (pCi/L)



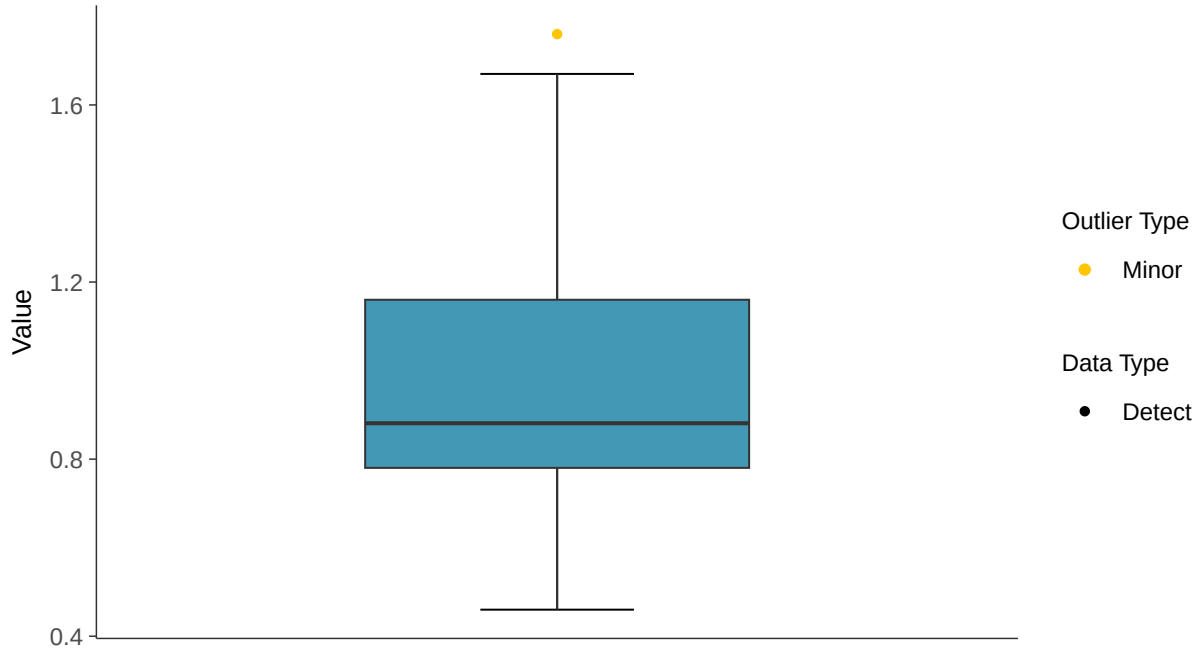
Histogram

Radium 226 and 228, MW-11 (pCi/L)



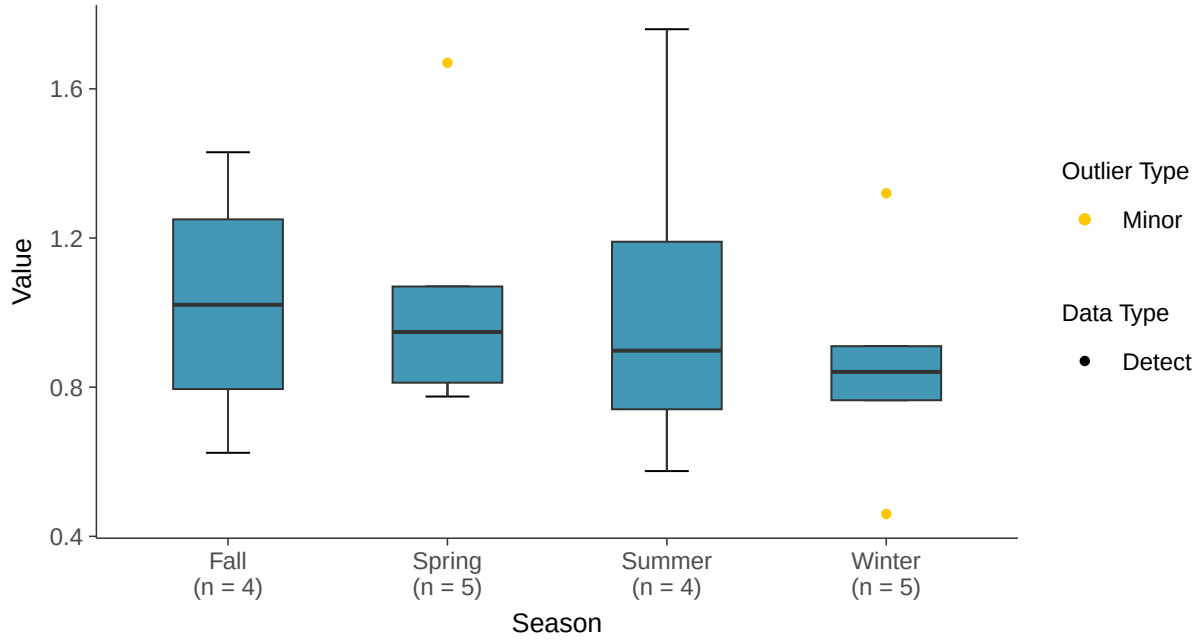
Boxplot

Radium 226 and 228, MW-11 (pCi/L)



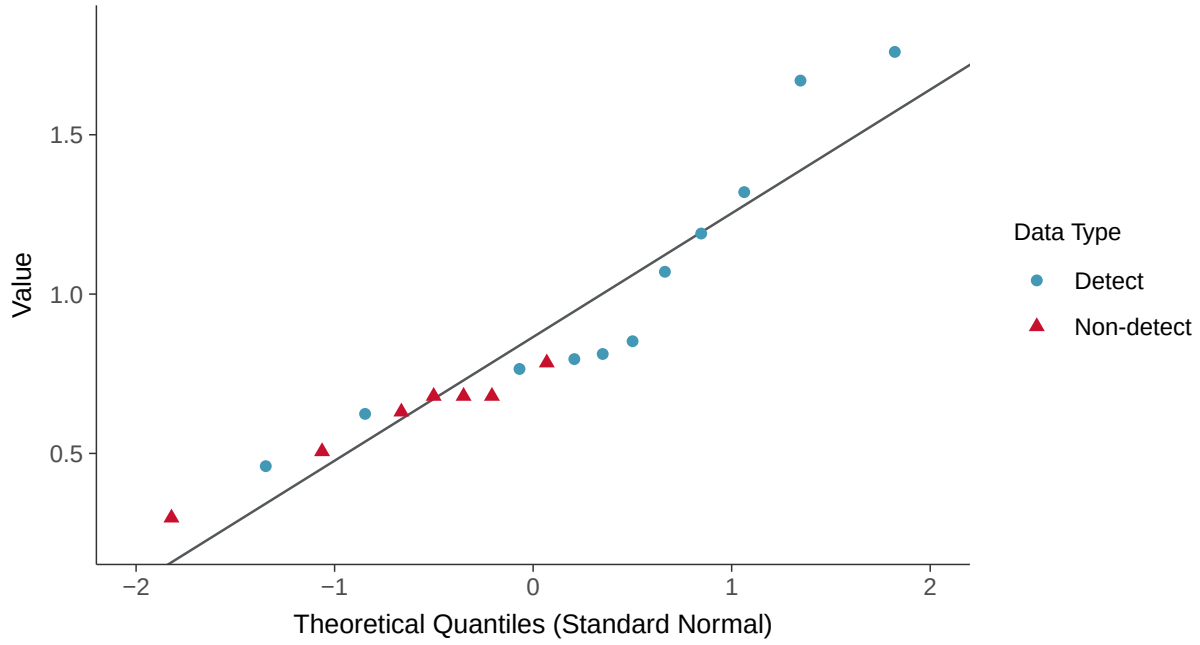
Boxplot by Season

Radium 226 and 228, MW-11 (pCi/L)



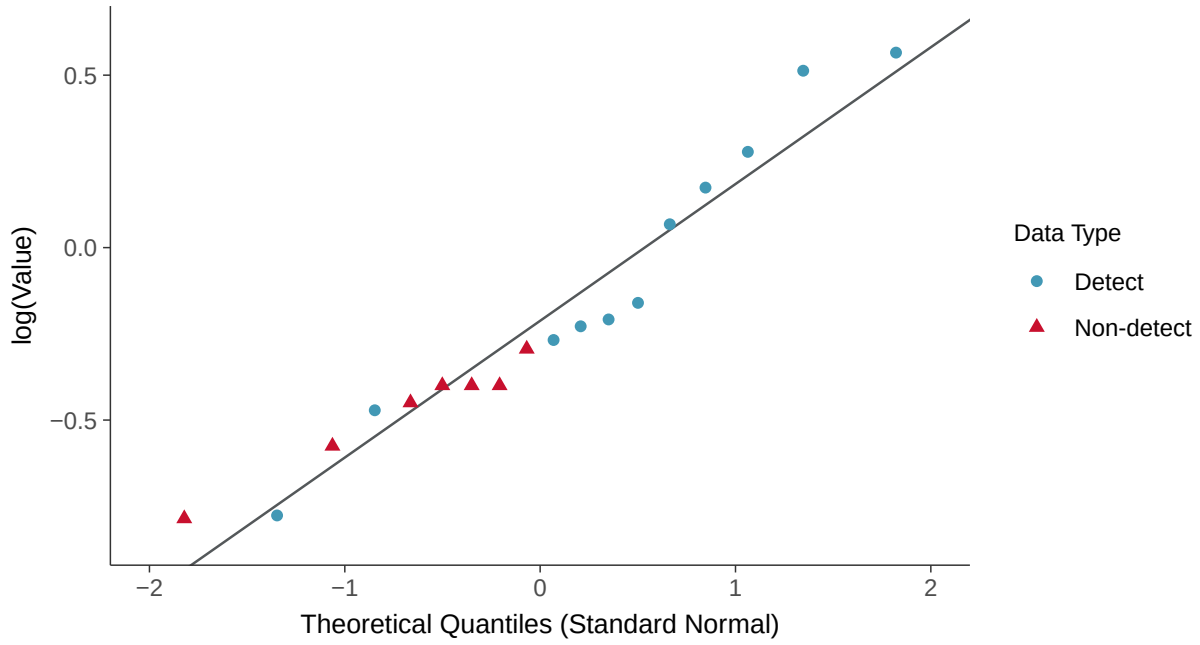
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



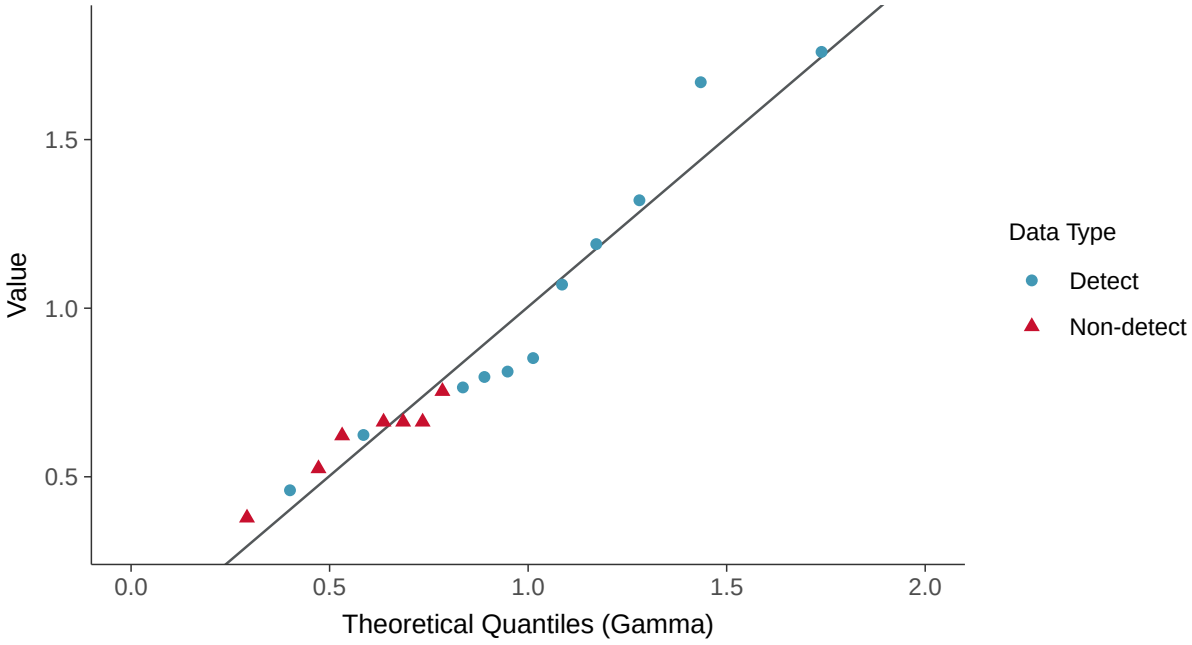
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



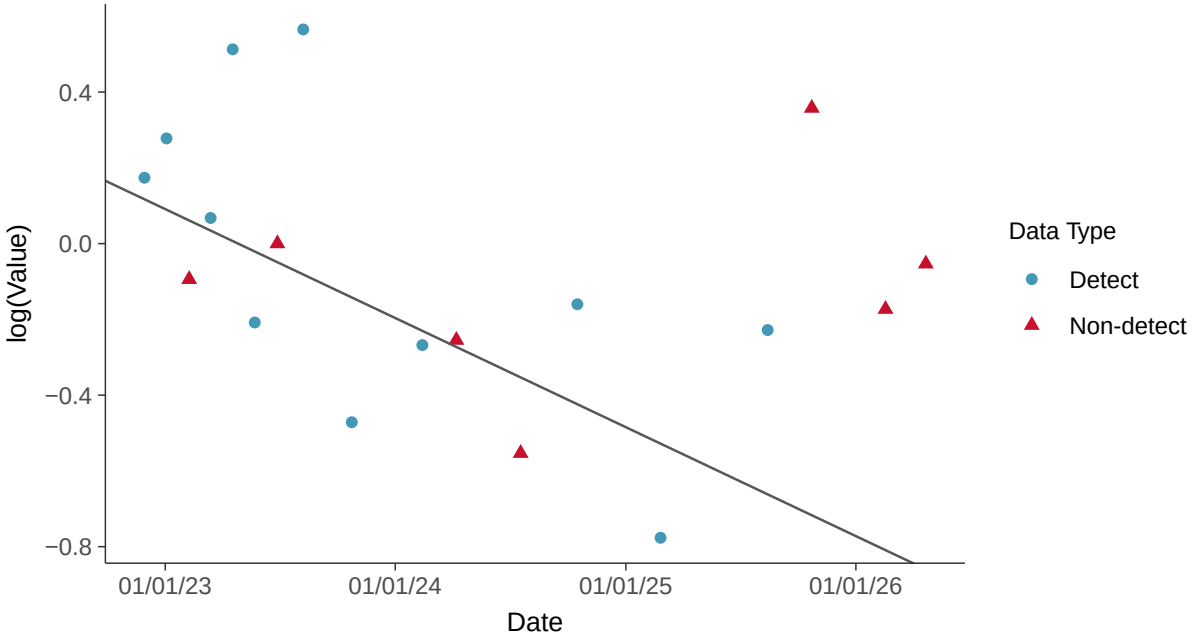
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-11 (pCi/L)



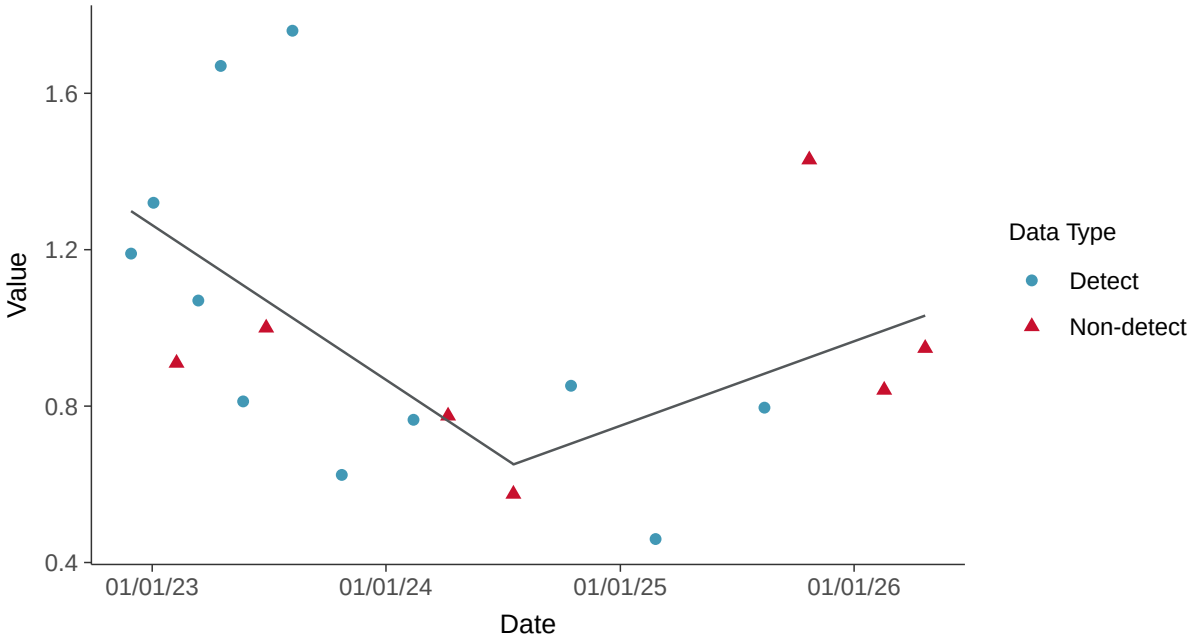
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-11 (pCi/L)



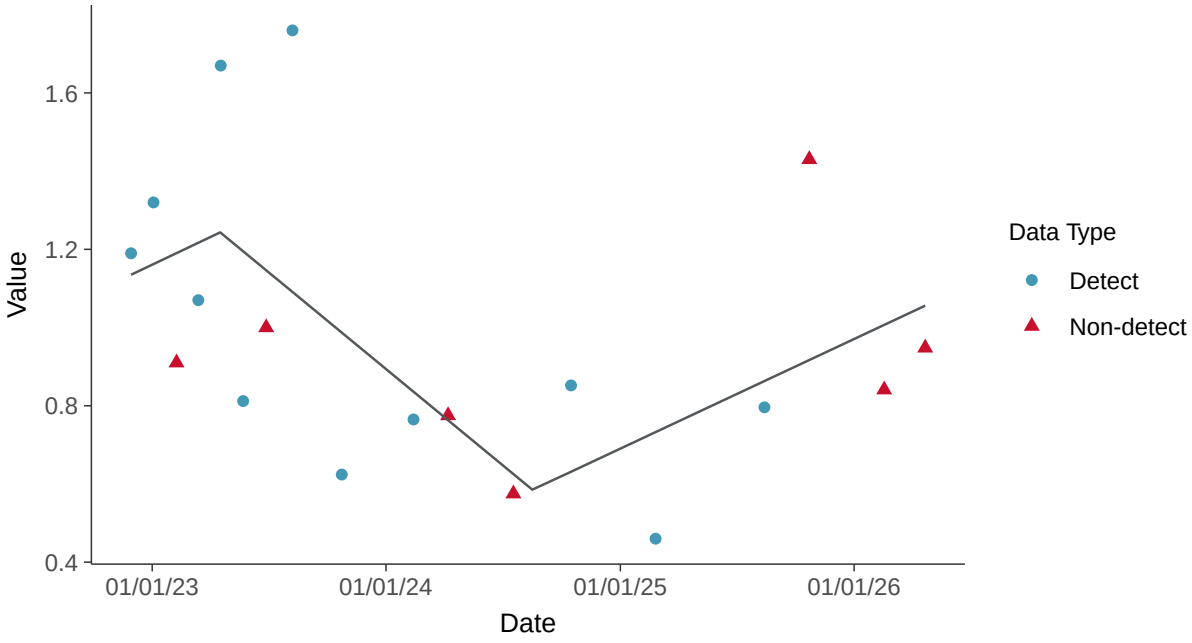
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-11 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-11 (pCi/L)

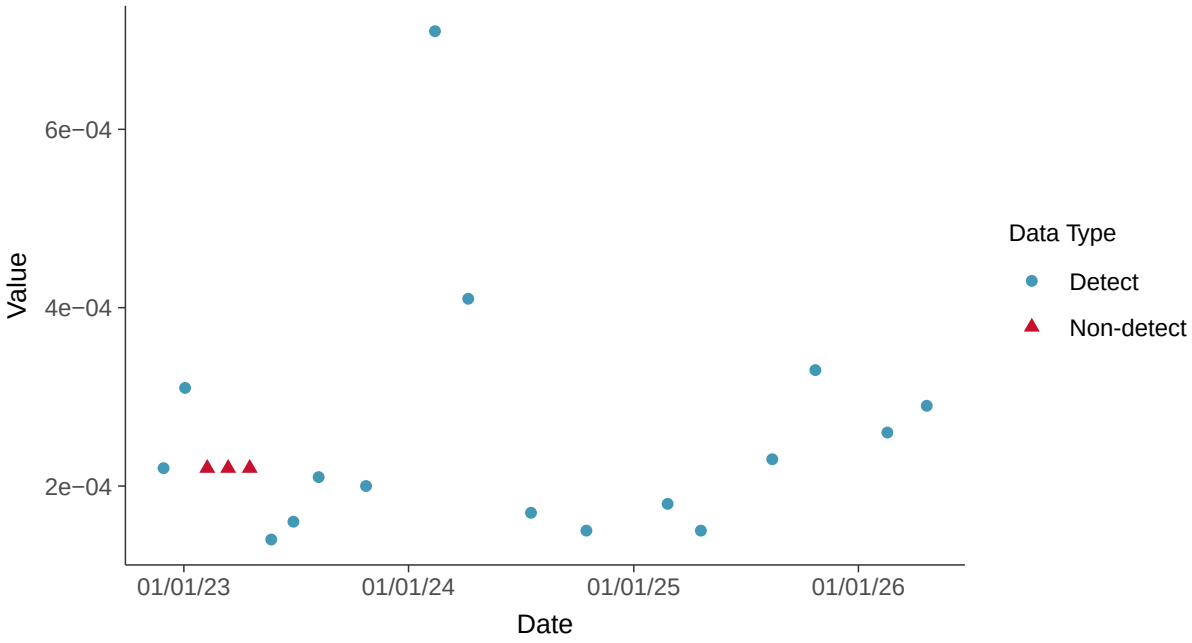


Appendix IV: Selenium, MW-11

ID: 21_2_4_122

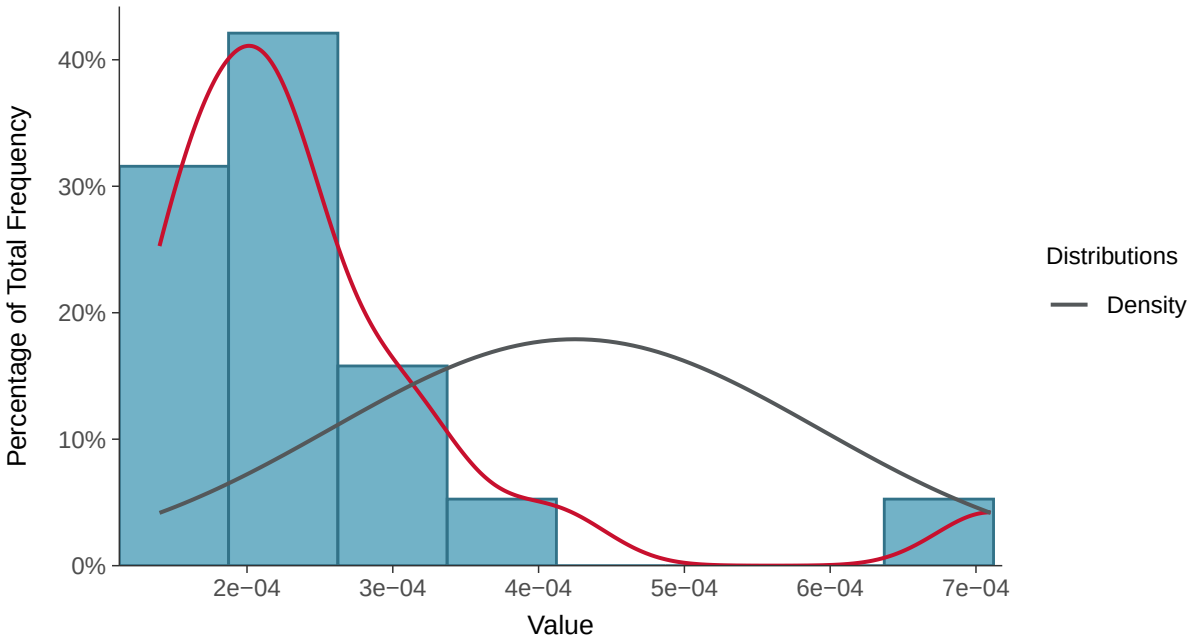
Scatter Plot

Selenium, MW-11 (mg/L)



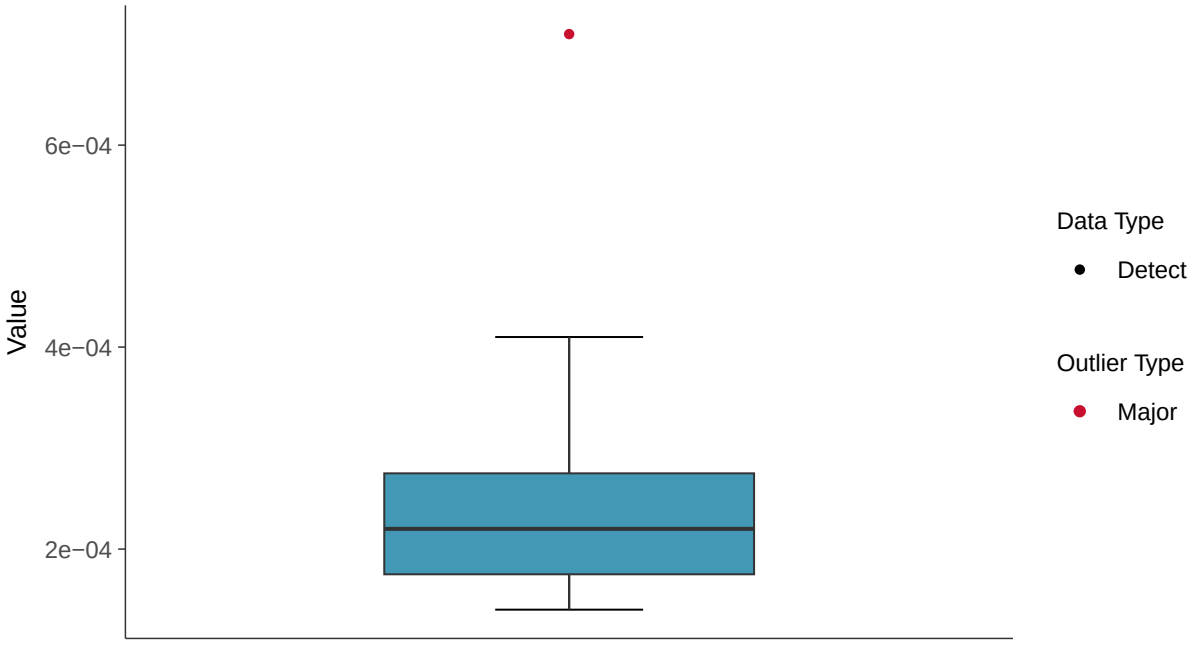
Histogram

Selenium, MW-11 (mg/L)



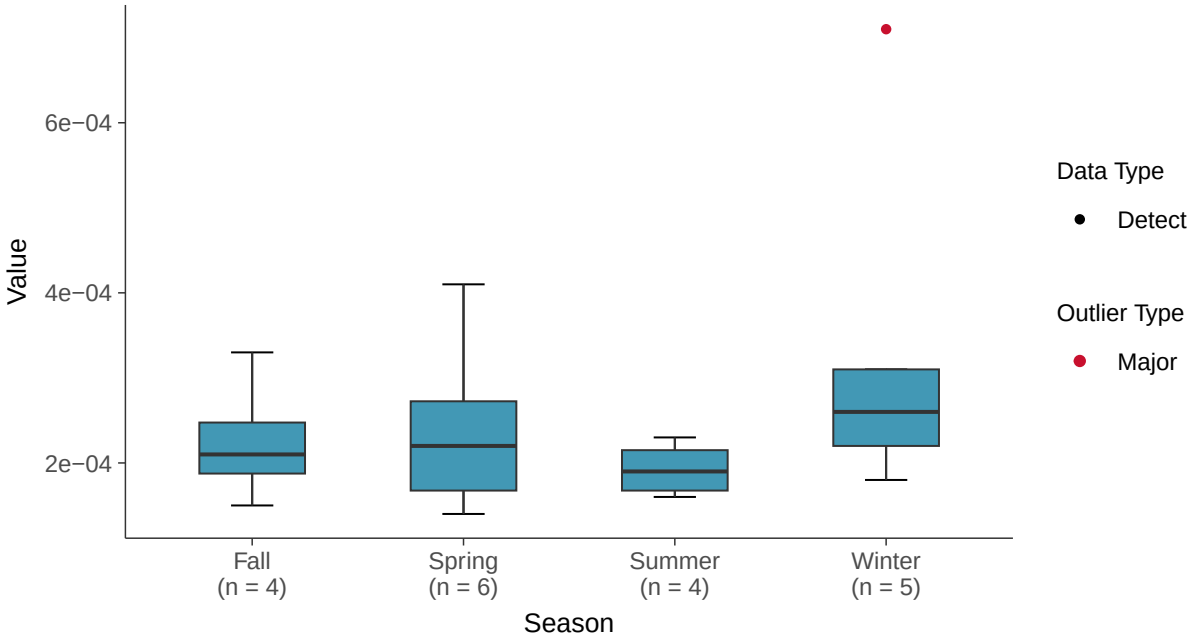
Boxplot

Selenium, MW-11 (mg/L)



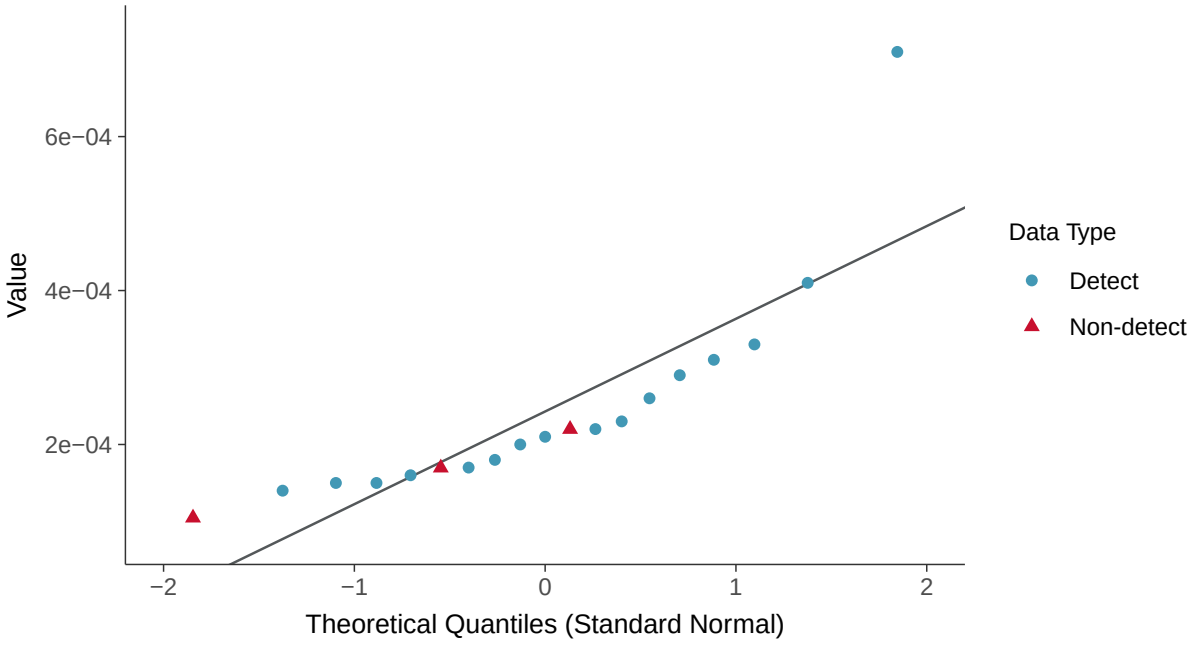
Boxplot by Season

Selenium, MW-11 (mg/L)



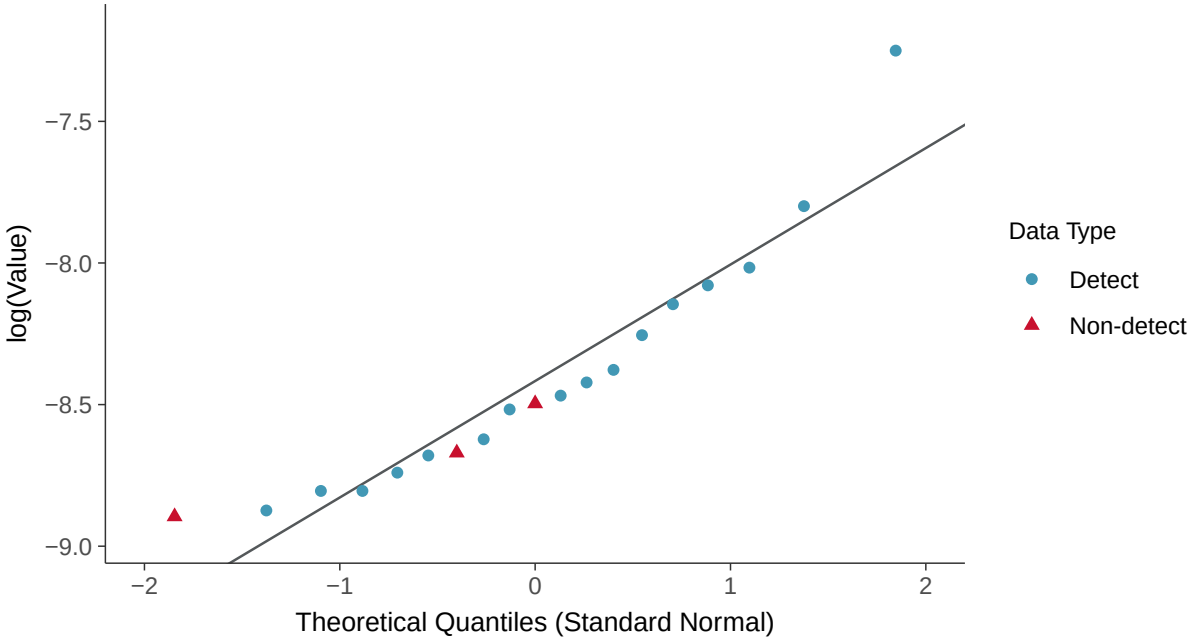
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-11 (mg/L)



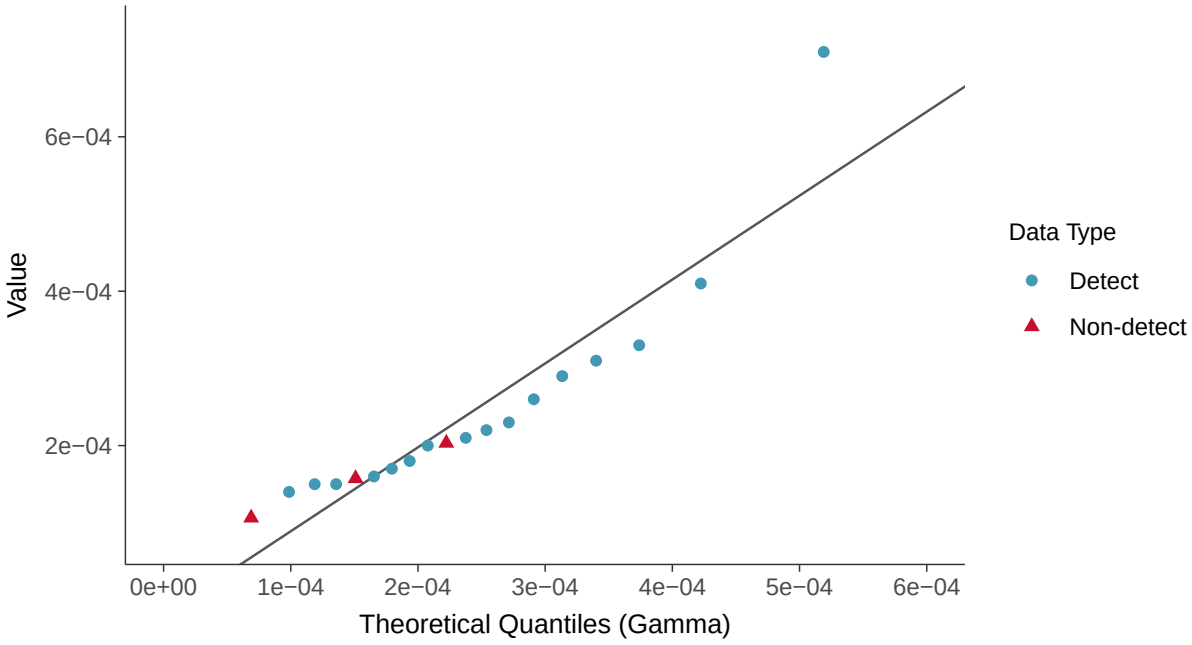
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-11 (mg/L)



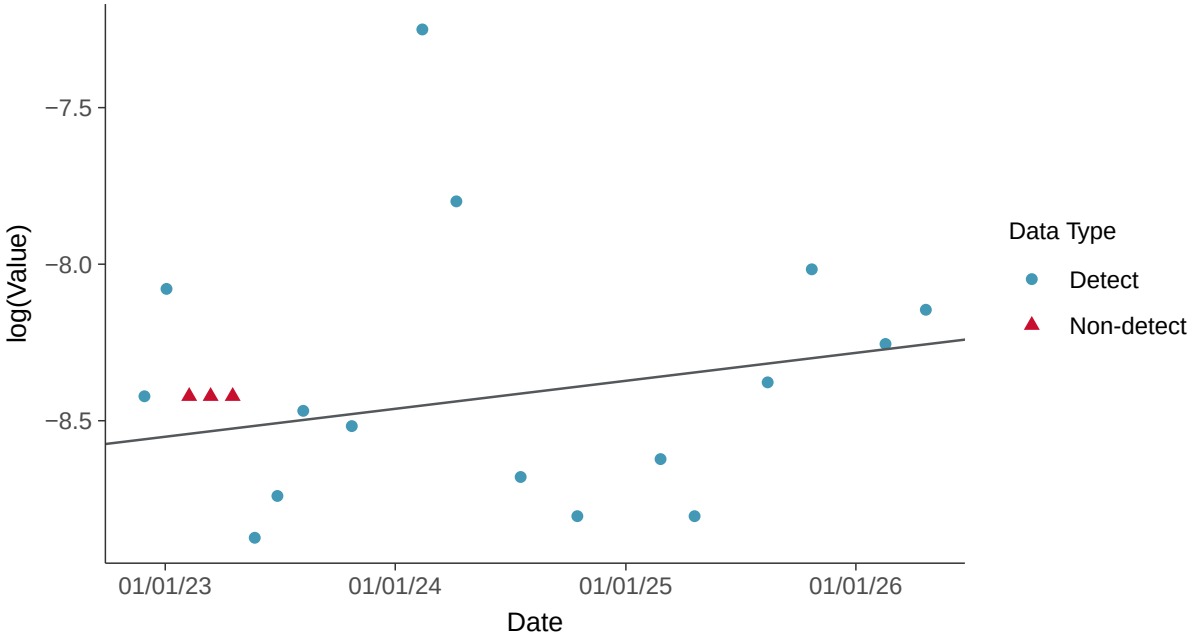
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-11 (mg/L)



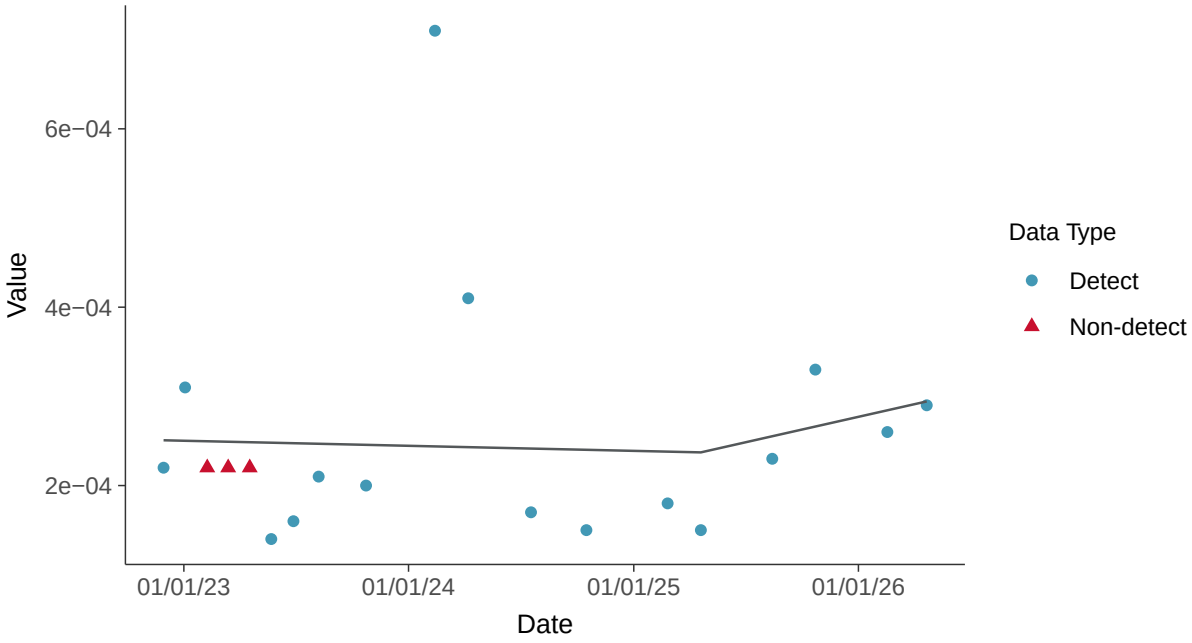
Trend Regression: Lognormal MLE

Selenium, MW-11 (mg/L)



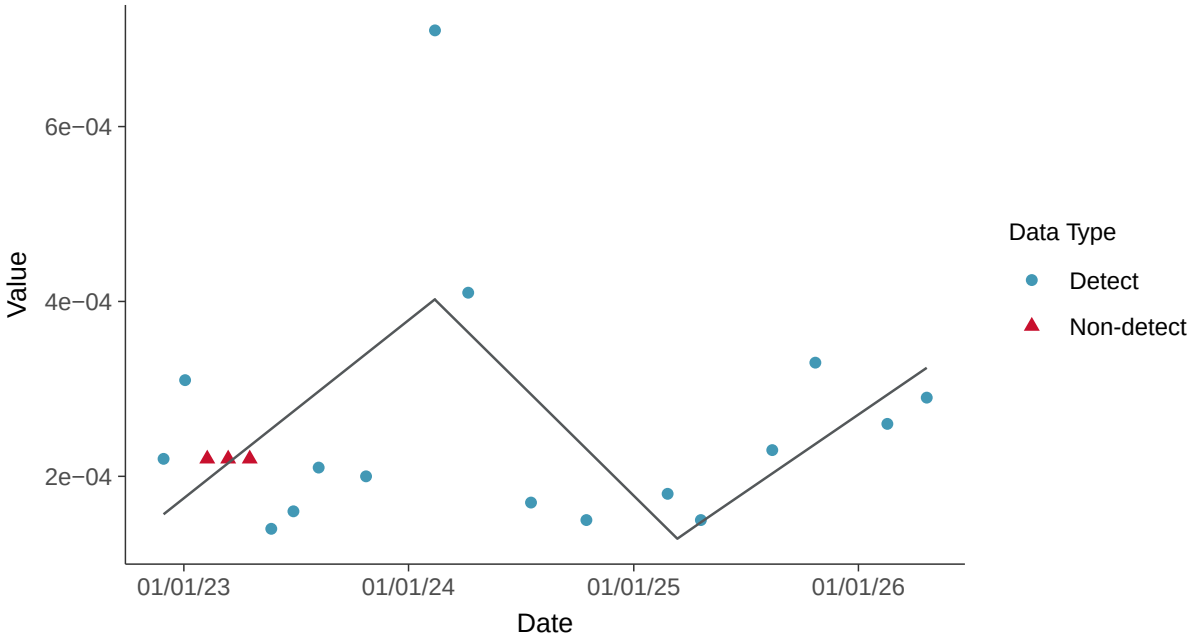
Trend Regression: Piecewise Linear-Linear

Selenium, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-11 (mg/L)

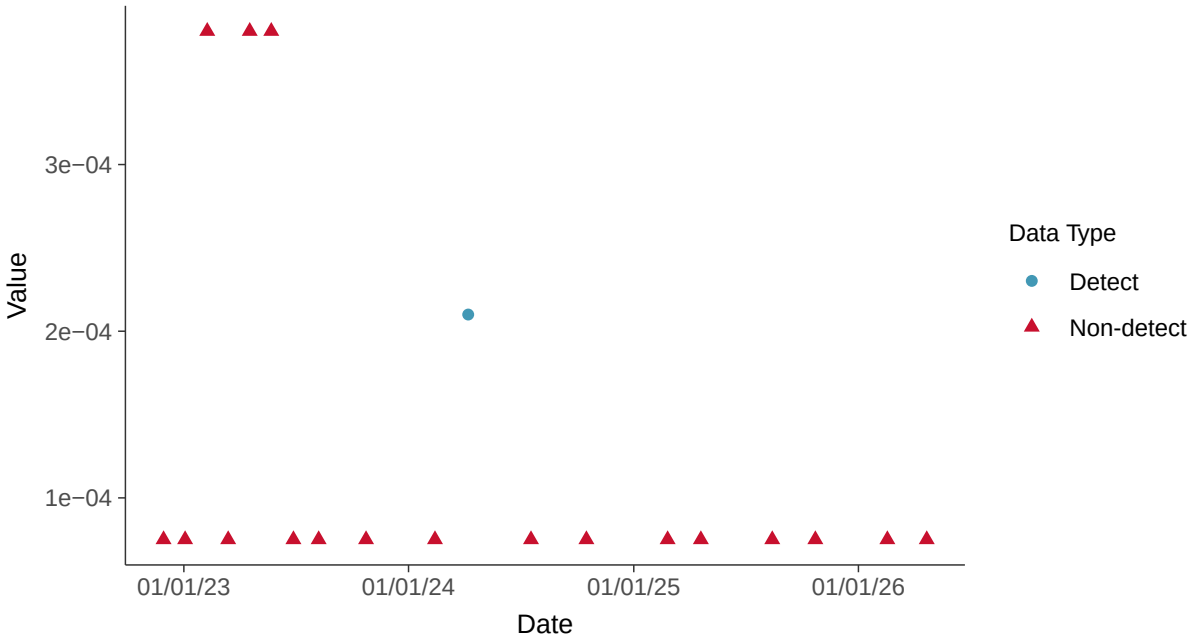


Appendix IV: Thallium, MW-11

ID: 21_2_4_125

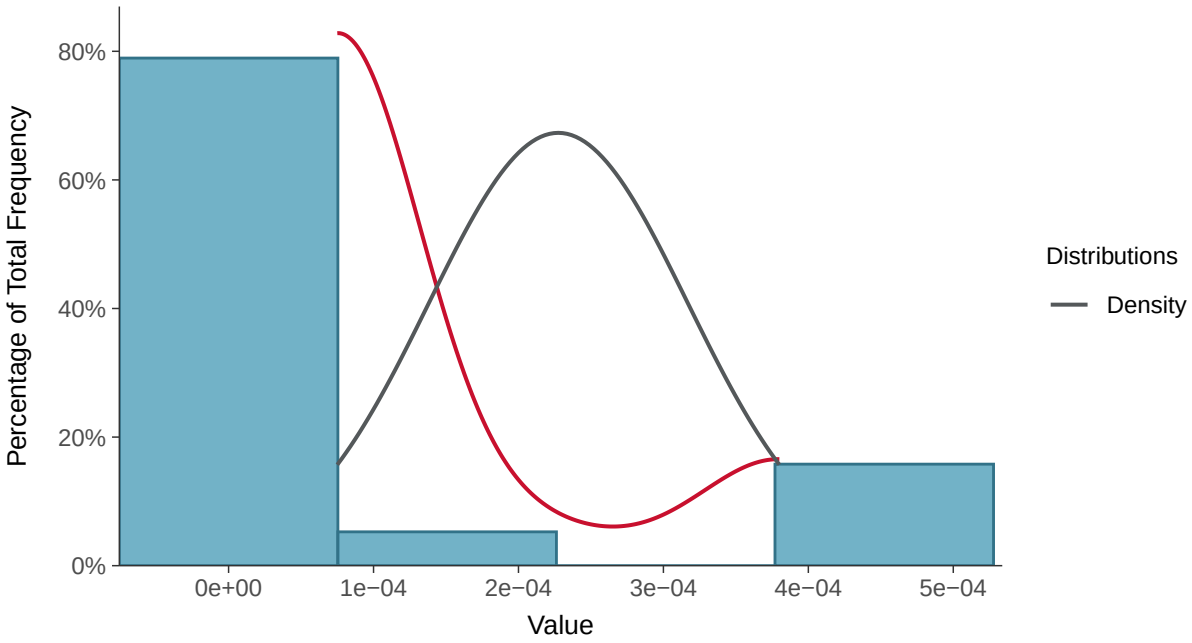
Scatter Plot

Thallium, MW-11 (mg/L)



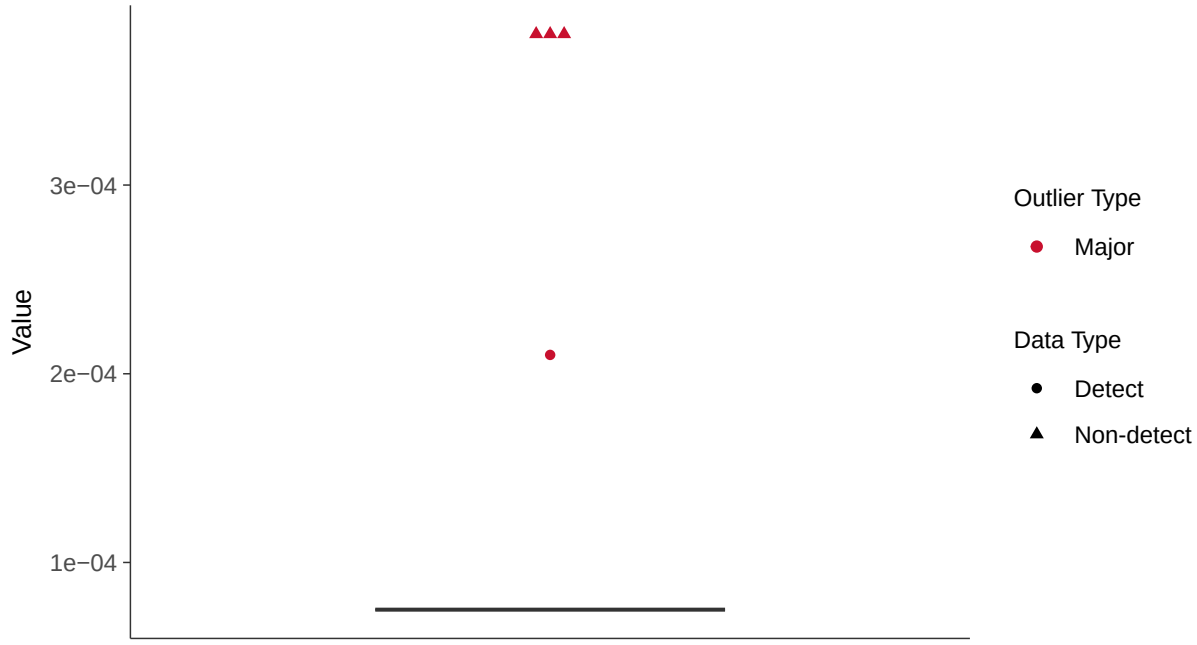
Histogram

Thallium, MW-11 (mg/L)



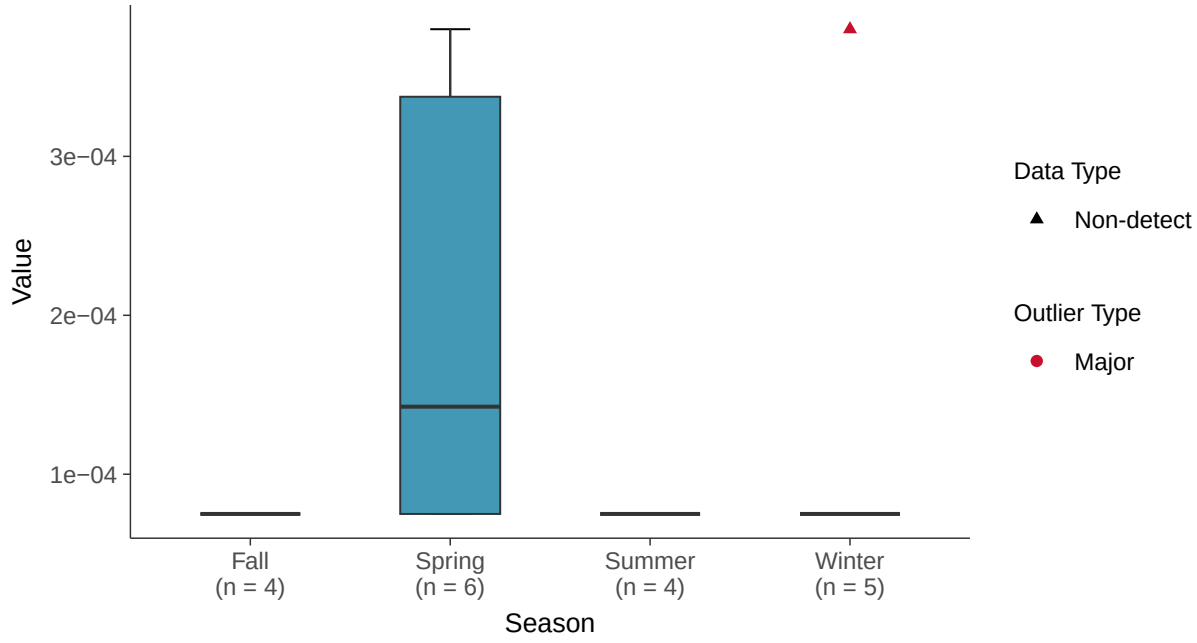
Boxplot

Thallium, MW-11 (mg/L)



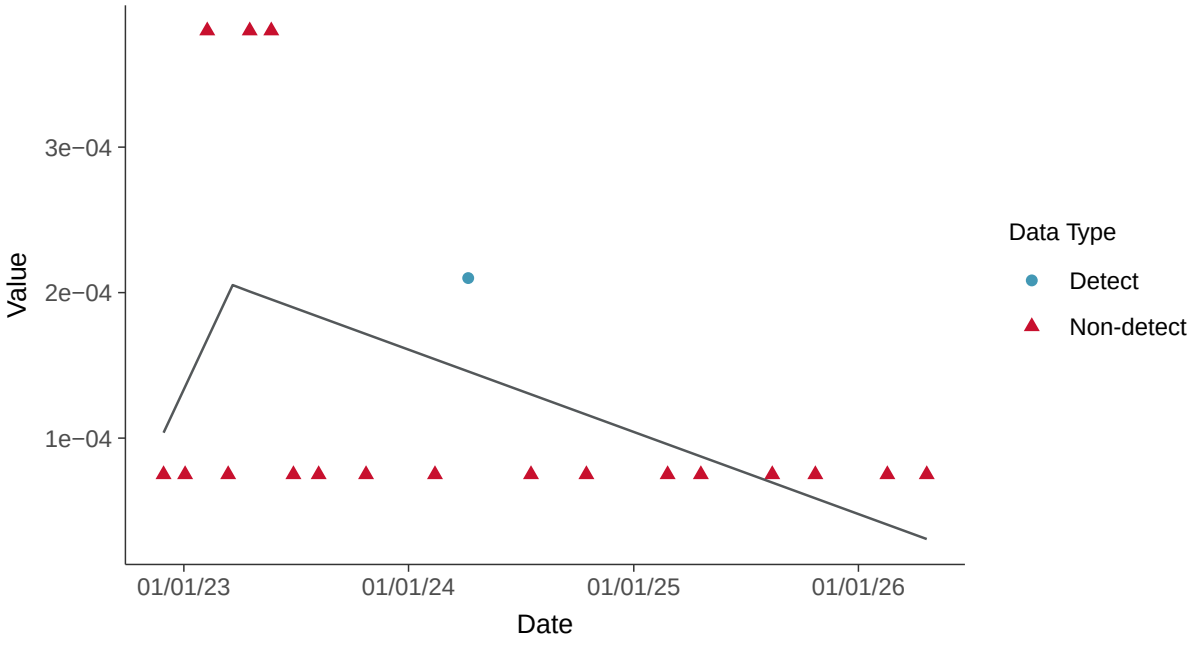
Boxplot by Season

Thallium, MW-11 (mg/L)



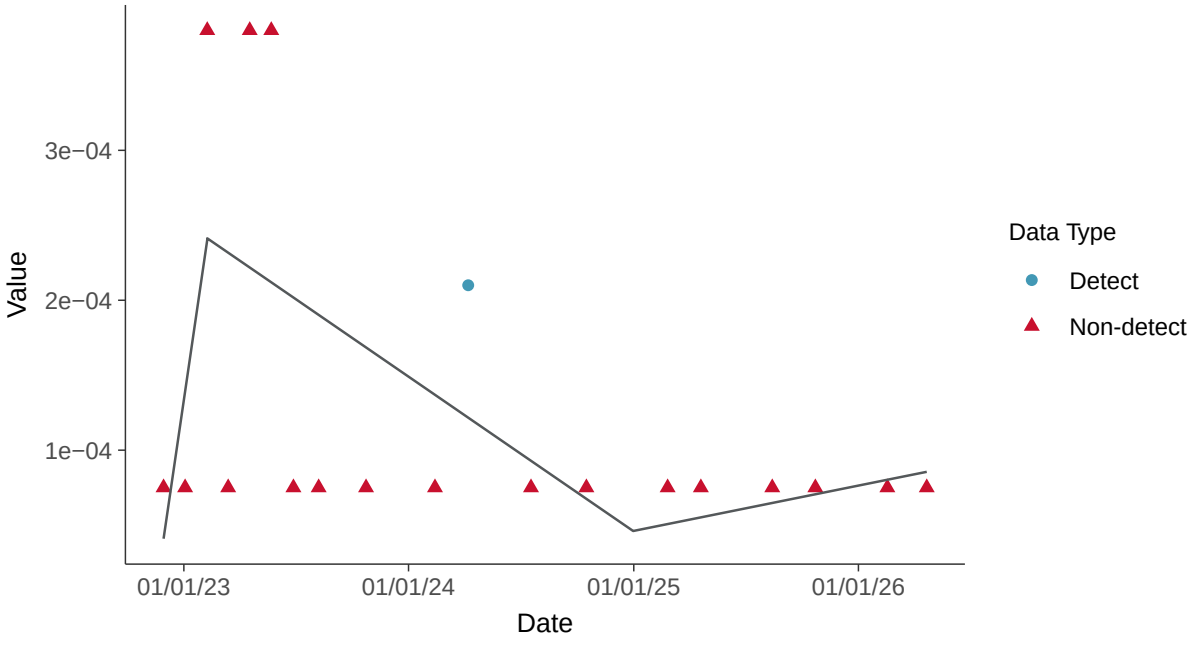
Trend Regression: Piecewise Linear-Linear

Thallium, MW-11 (mg/L)



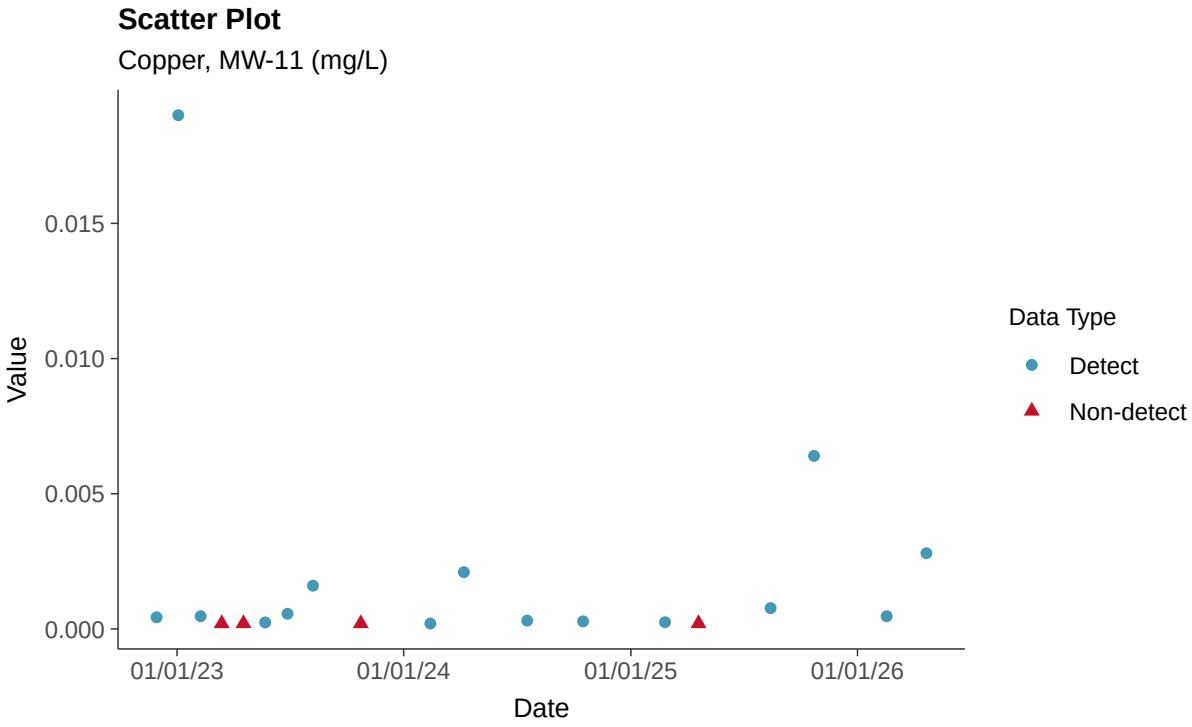
Trend Regression: Piecewise Linear-Linear-Linear

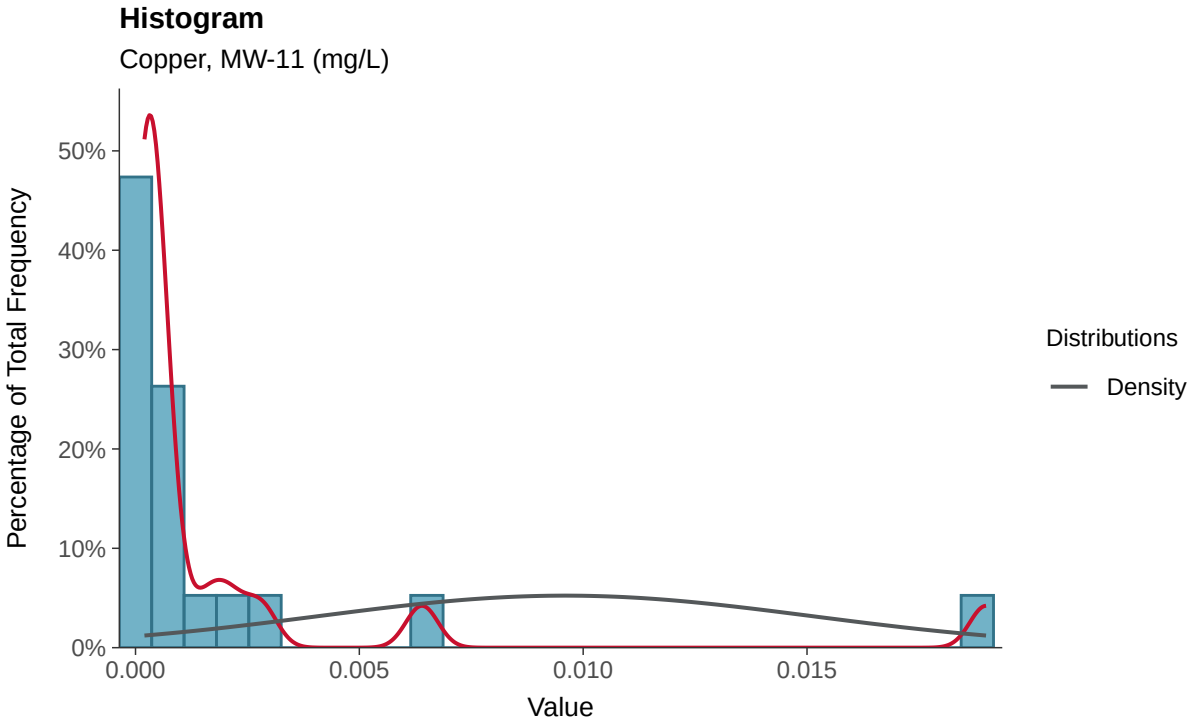
Thallium, MW-11 (mg/L)



Part 115: Copper, MW-11

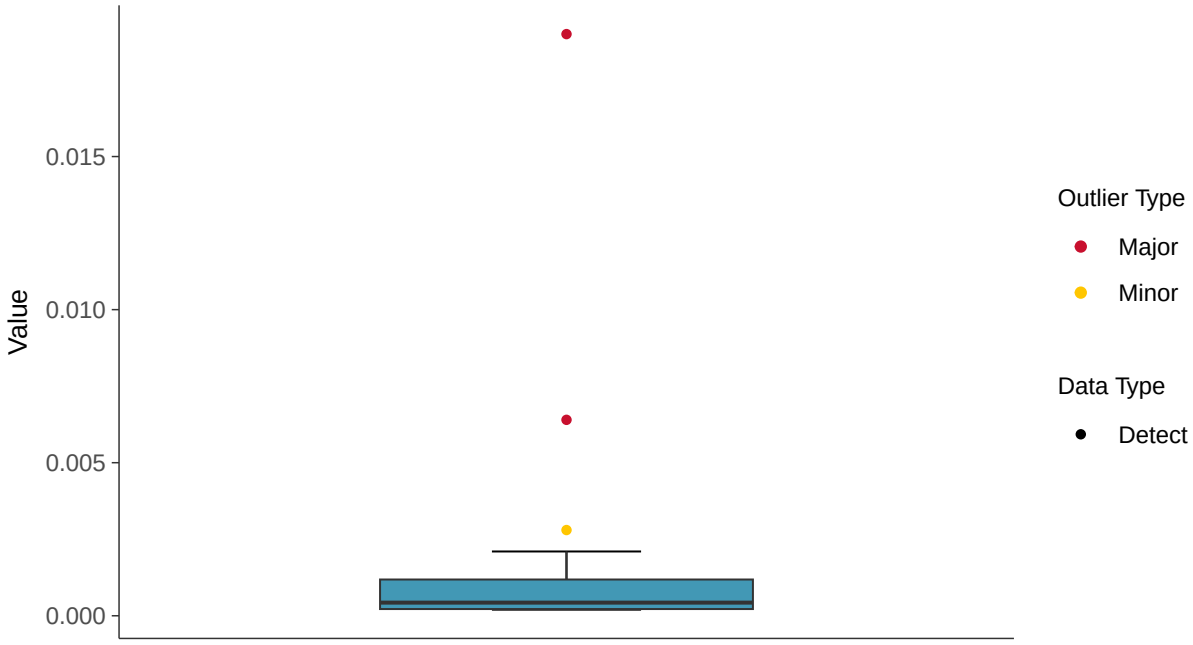
ID: 21_2_5_111





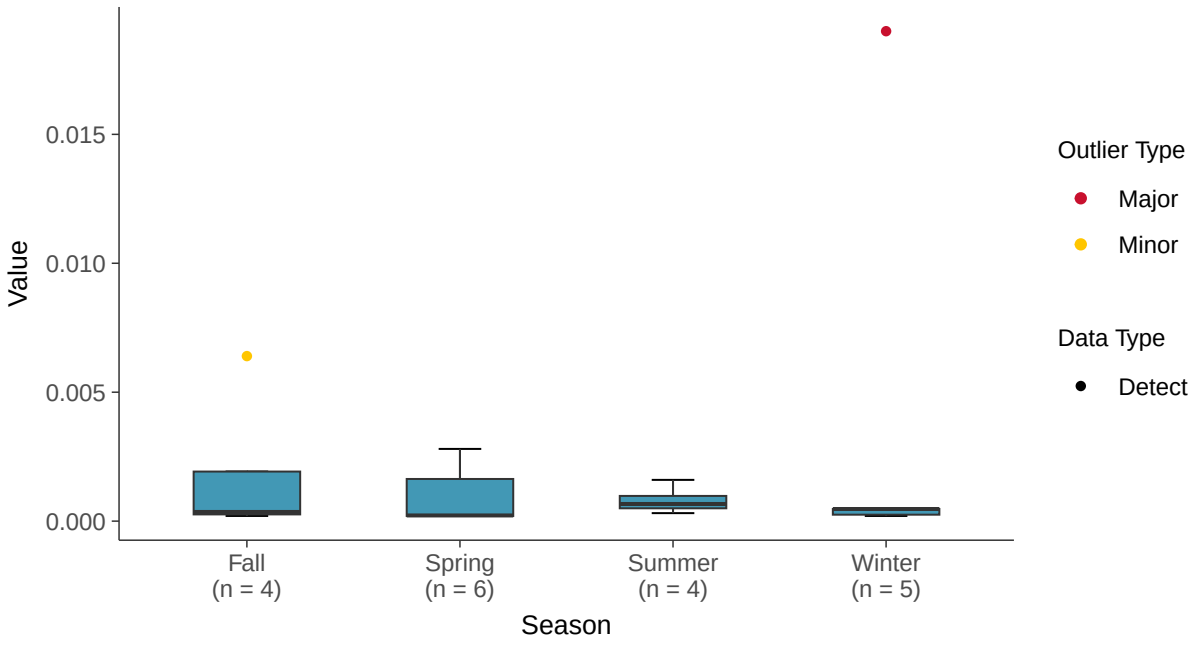
Boxplot

Copper, MW-11 (mg/L)



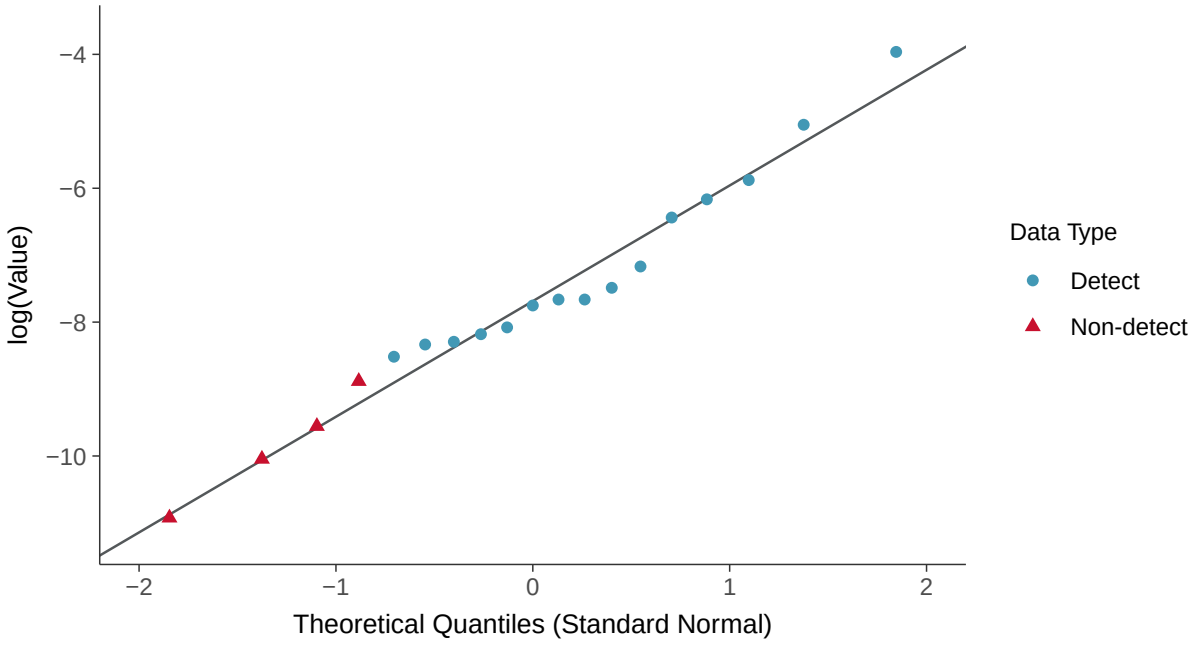
Boxplot by Season

Copper, MW-11 (mg/L)



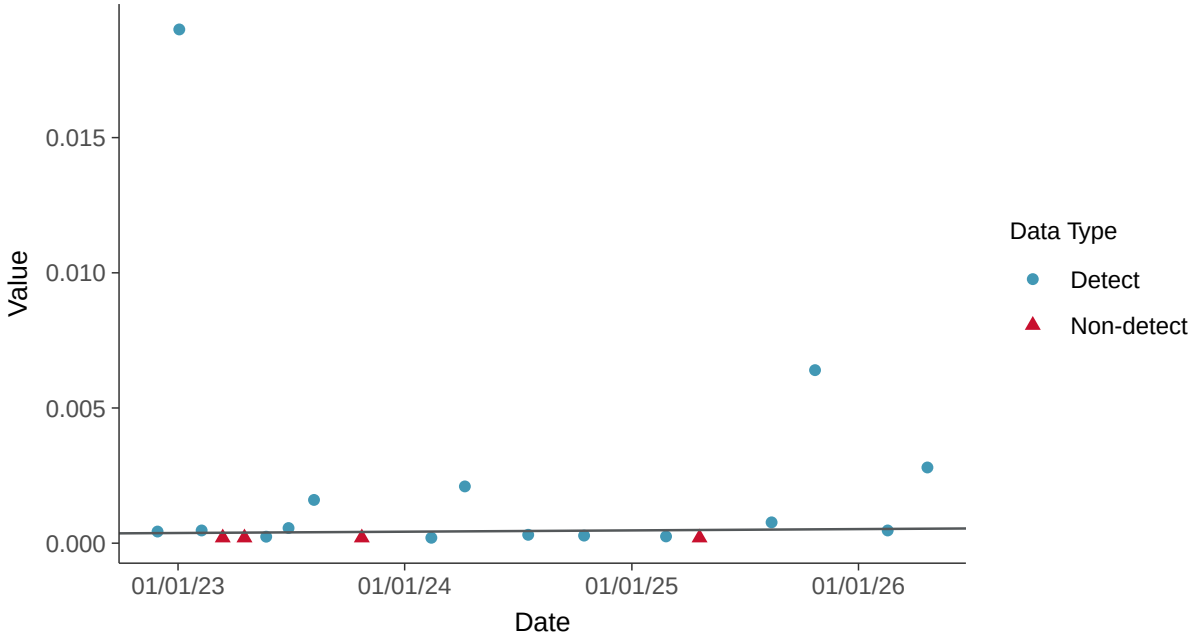
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-11 (mg/L)



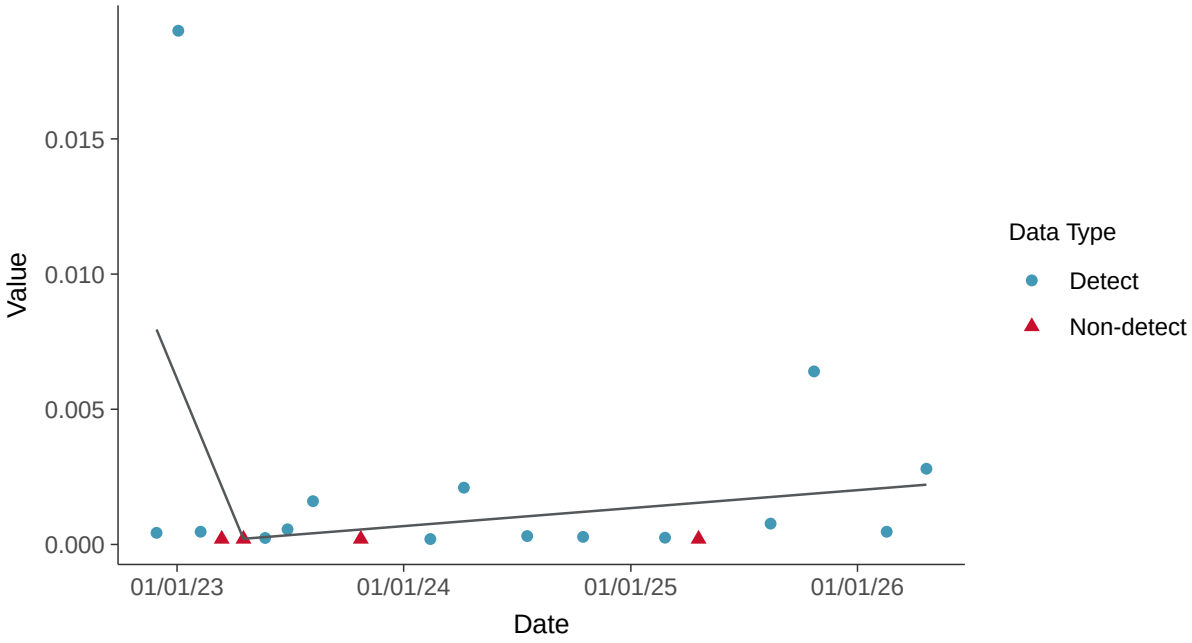
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Copper, MW-11 (mg/L)



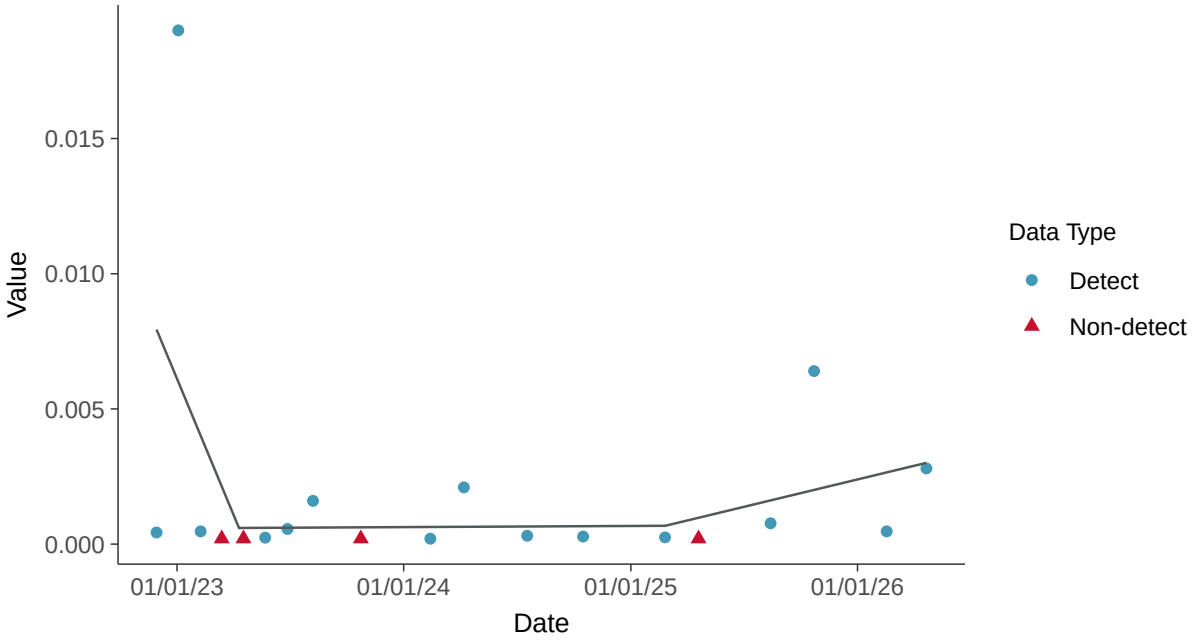
Trend Regression: Piecewise Linear-Linear

Copper, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Copper, MW-11 (mg/L)

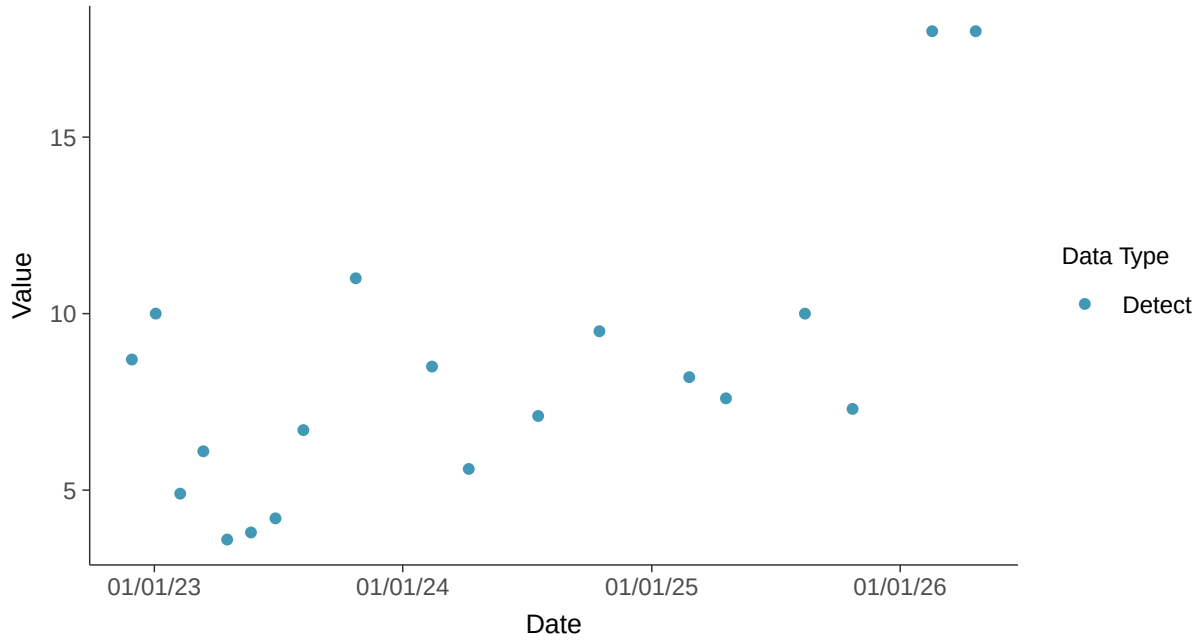


Part 115: Iron, MW-11

ID: 21_2_5_114

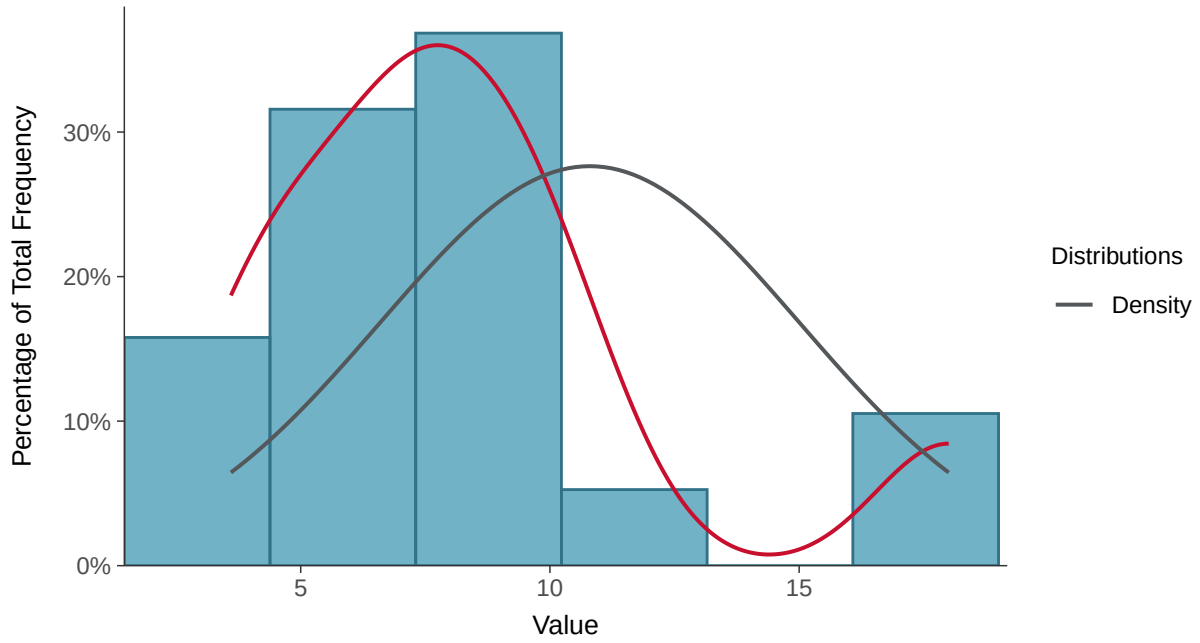
Scatter Plot

Iron, MW-11 (mg/L)



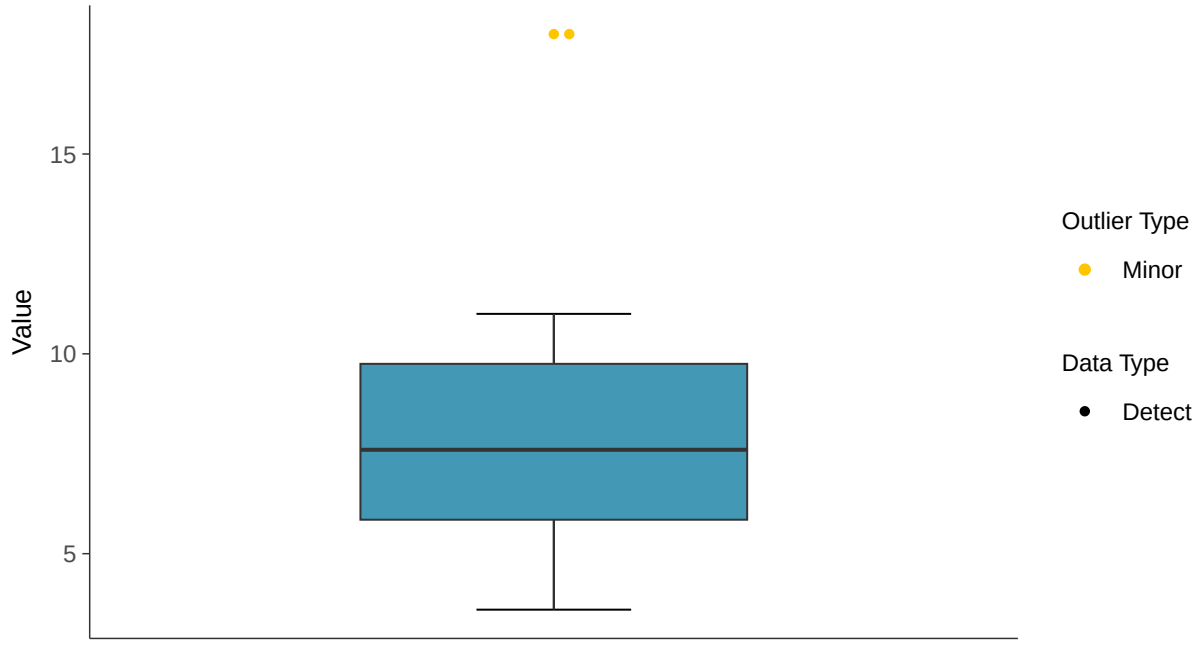
Histogram

Iron, MW-11 (mg/L)



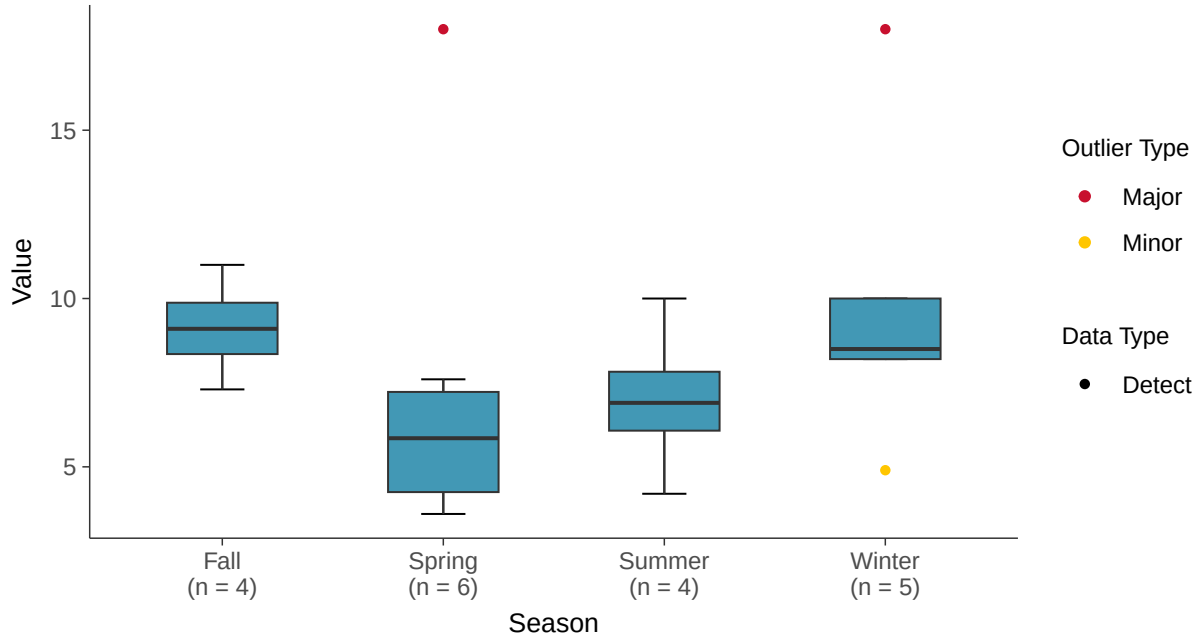
Boxplot

Iron, MW-11 (mg/L)



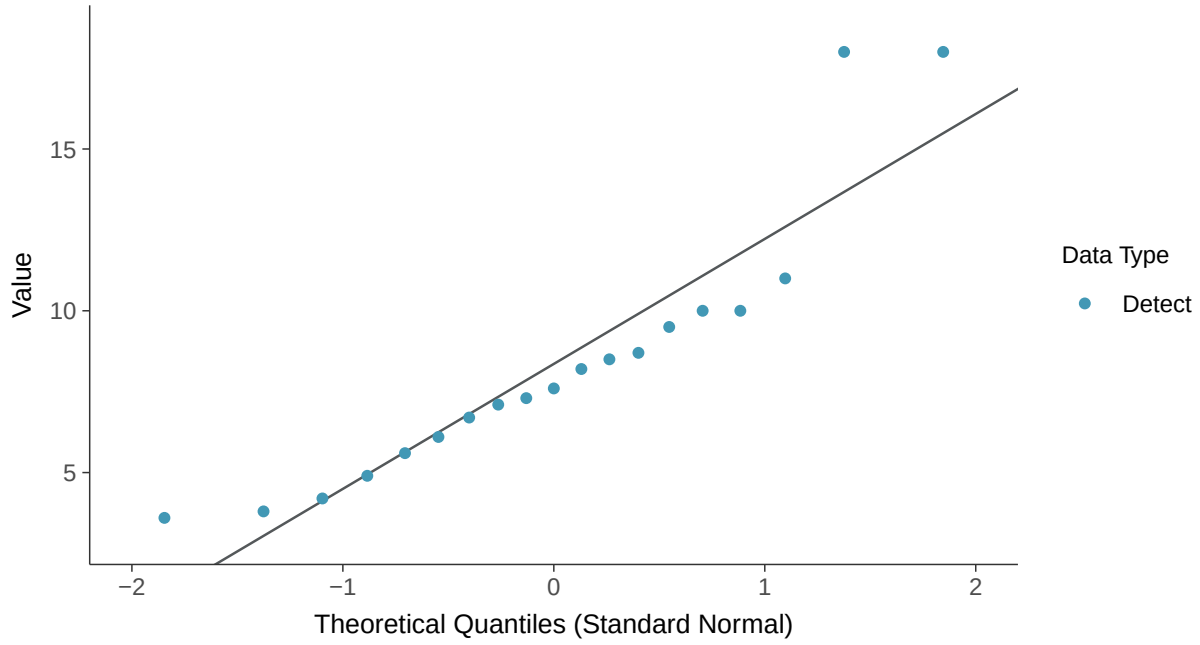
Boxplot by Season

Iron, MW-11 (mg/L)



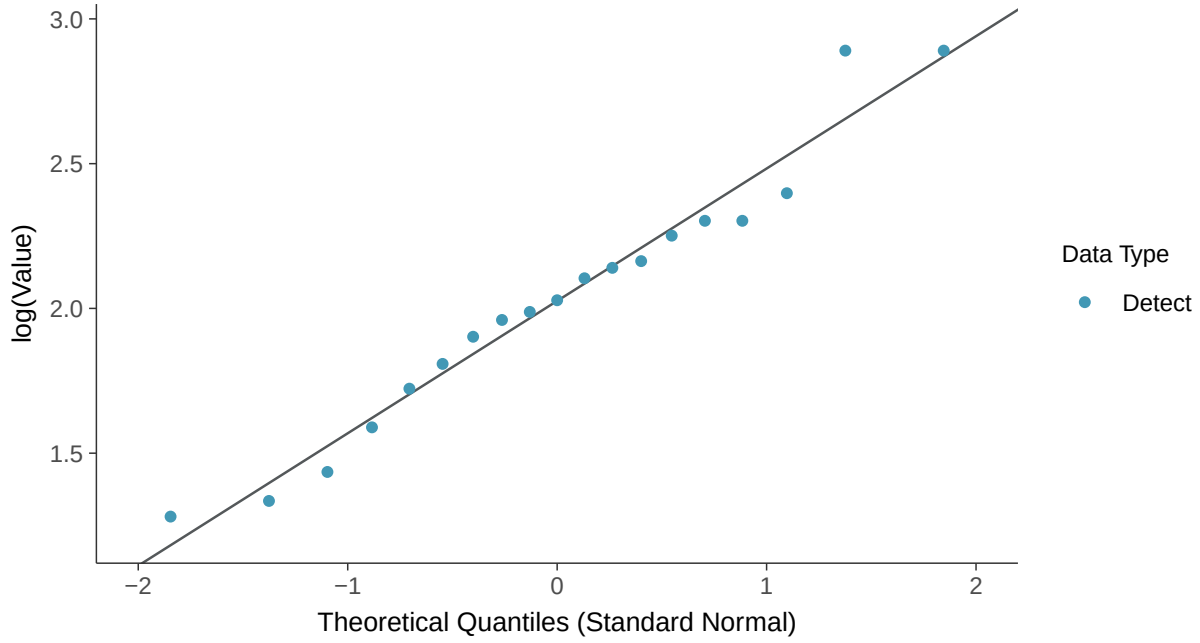
Normal Q-Q plot

Iron, MW-11 (mg/L)



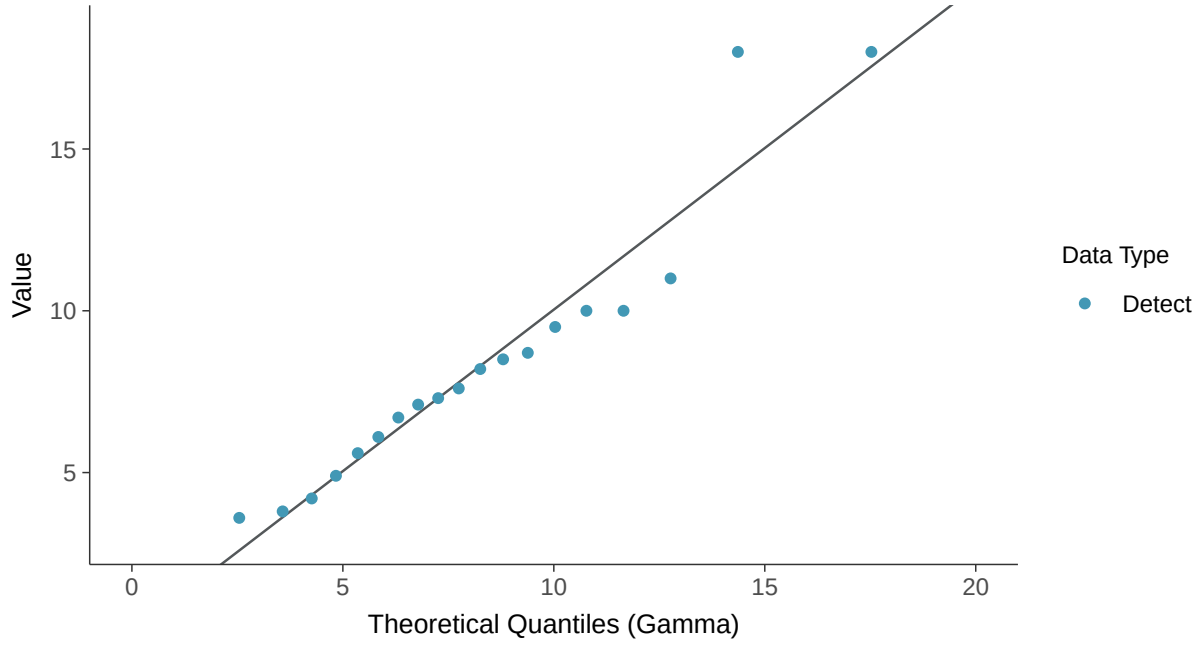
Lognormal Q-Q plot

Iron, MW-11 (mg/L)



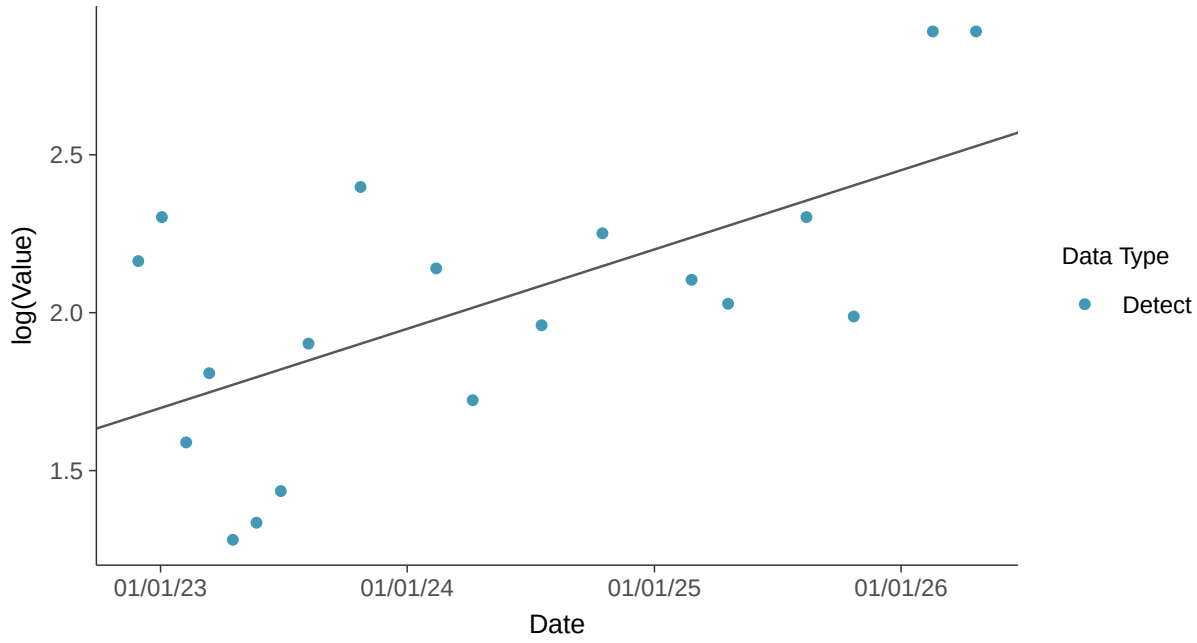
Gamma Q-Q plot

Iron, MW-11 (mg/L)



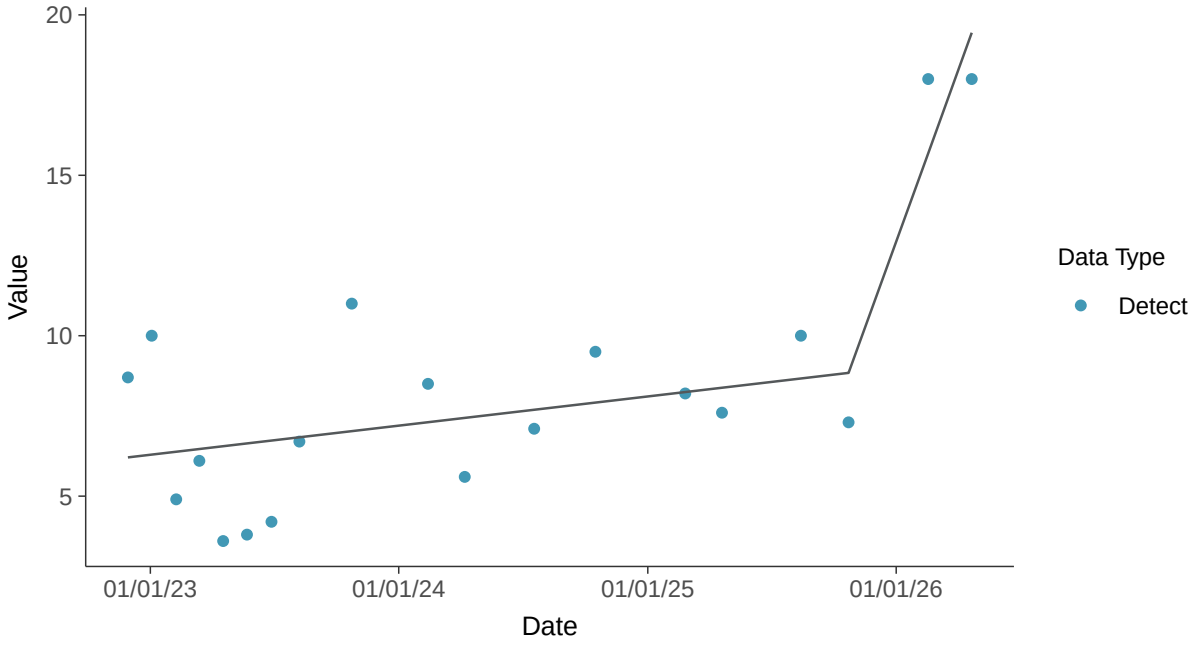
Trend Regression: Lognormal MLE

Iron, MW-11 (mg/L)



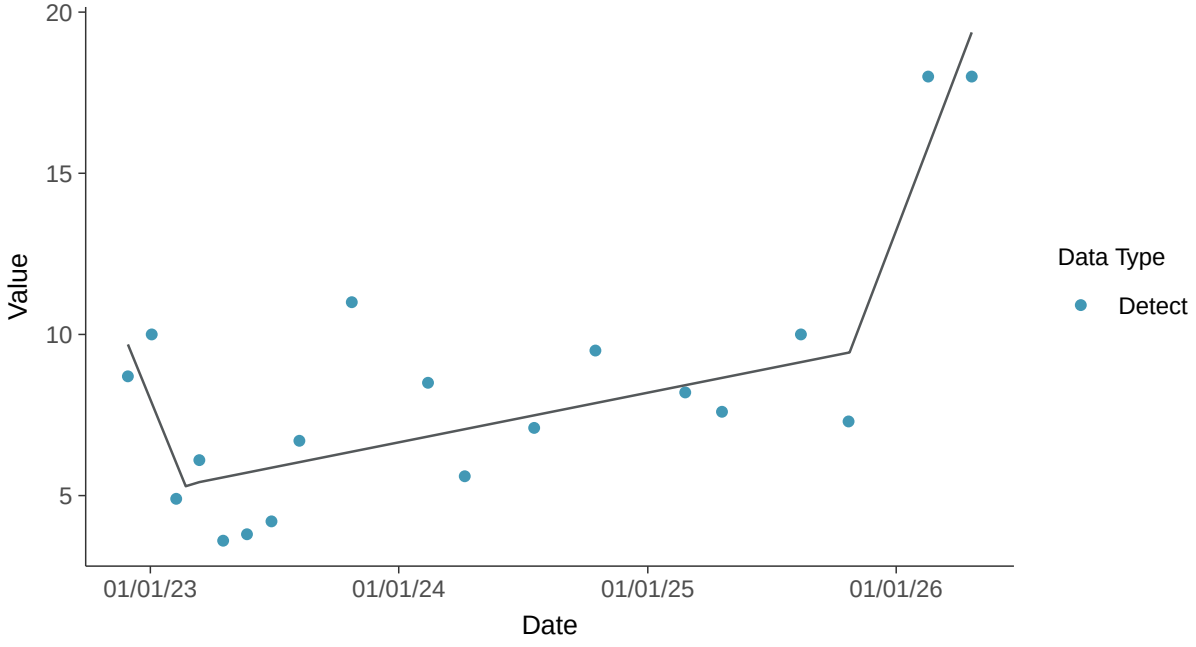
Trend Regression: Piecewise Linear-Linear

Iron, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-11 (mg/L)

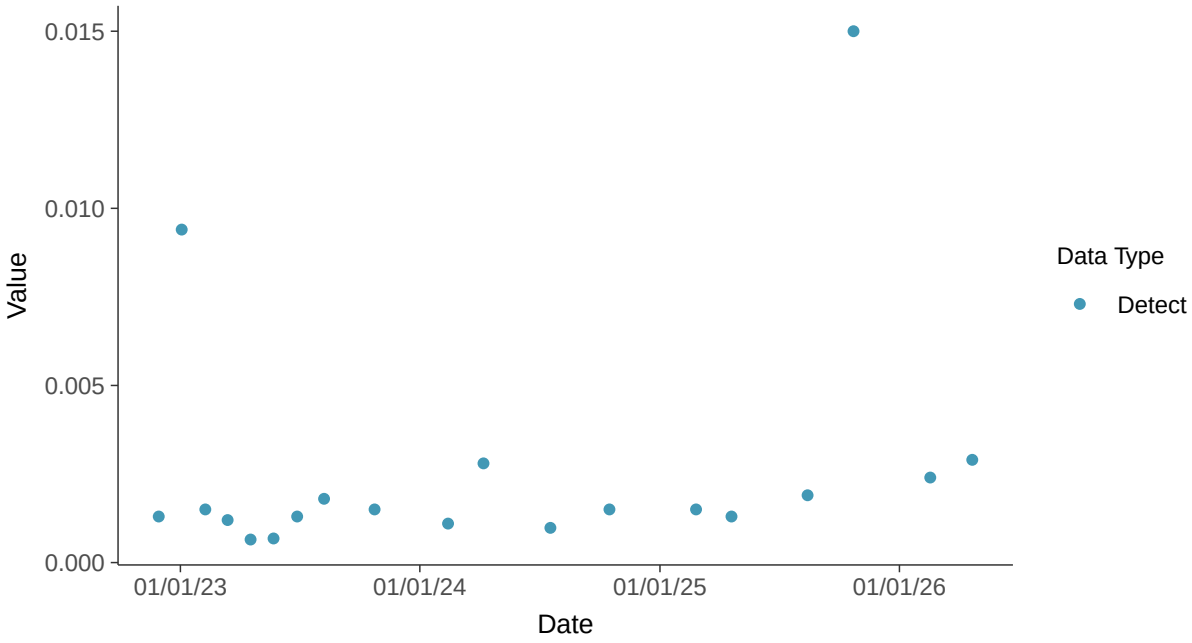


Part 115: Nickel, MW-11

ID: 21_2_5_119

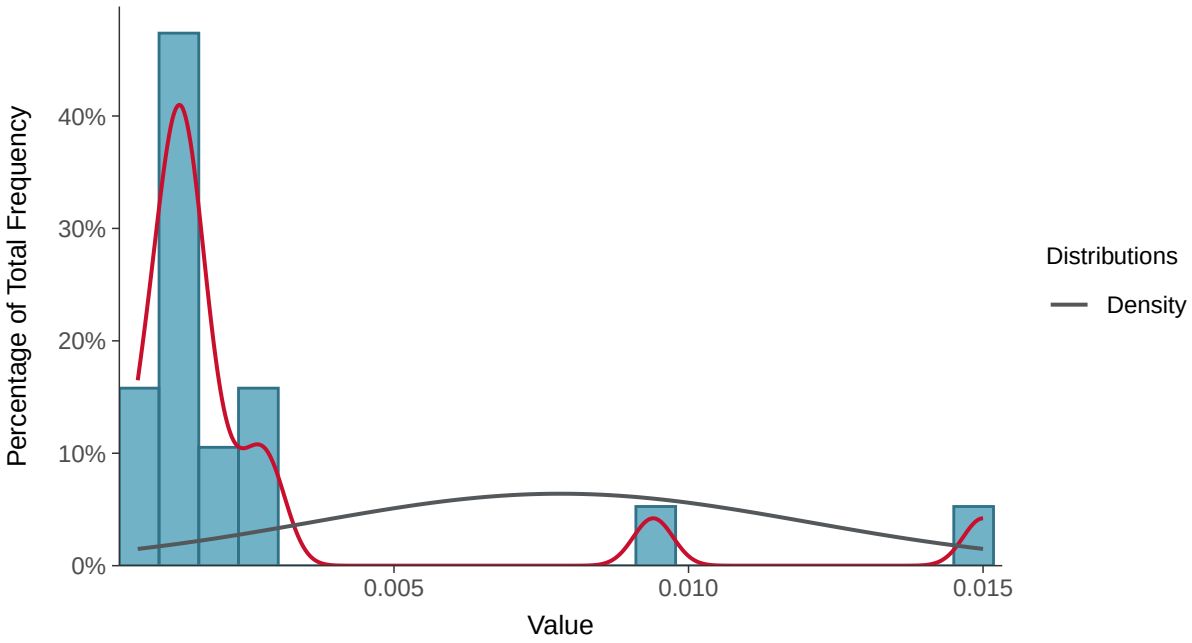
Scatter Plot

Nickel, MW-11 (mg/L)



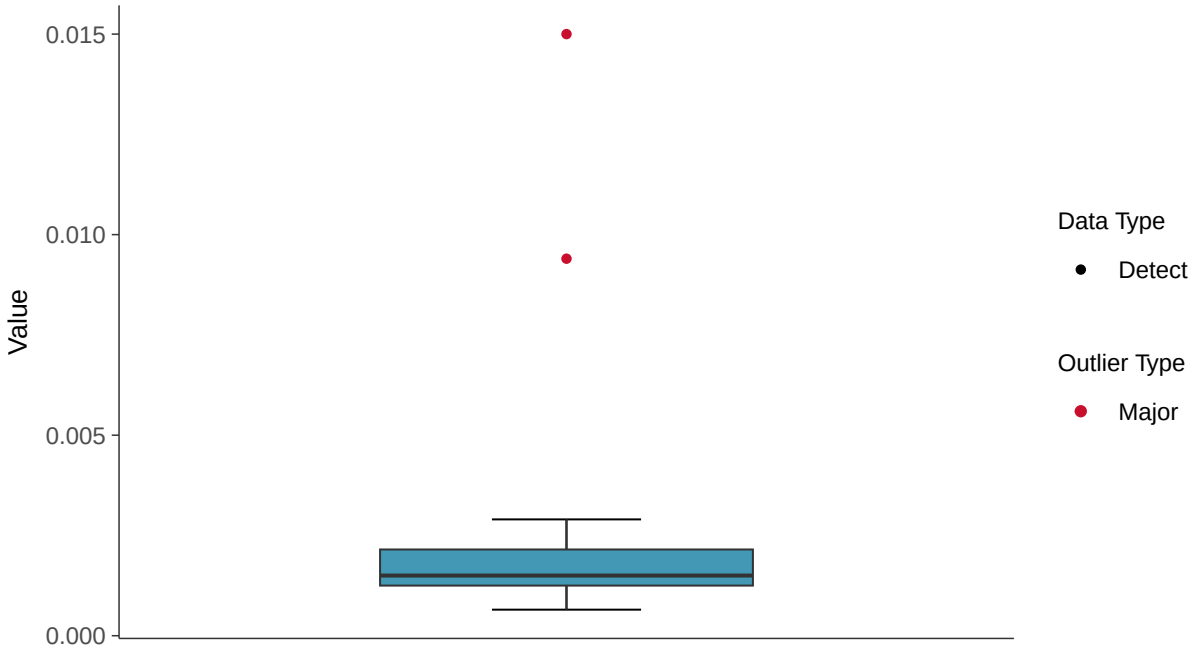
Histogram

Nickel, MW-11 (mg/L)



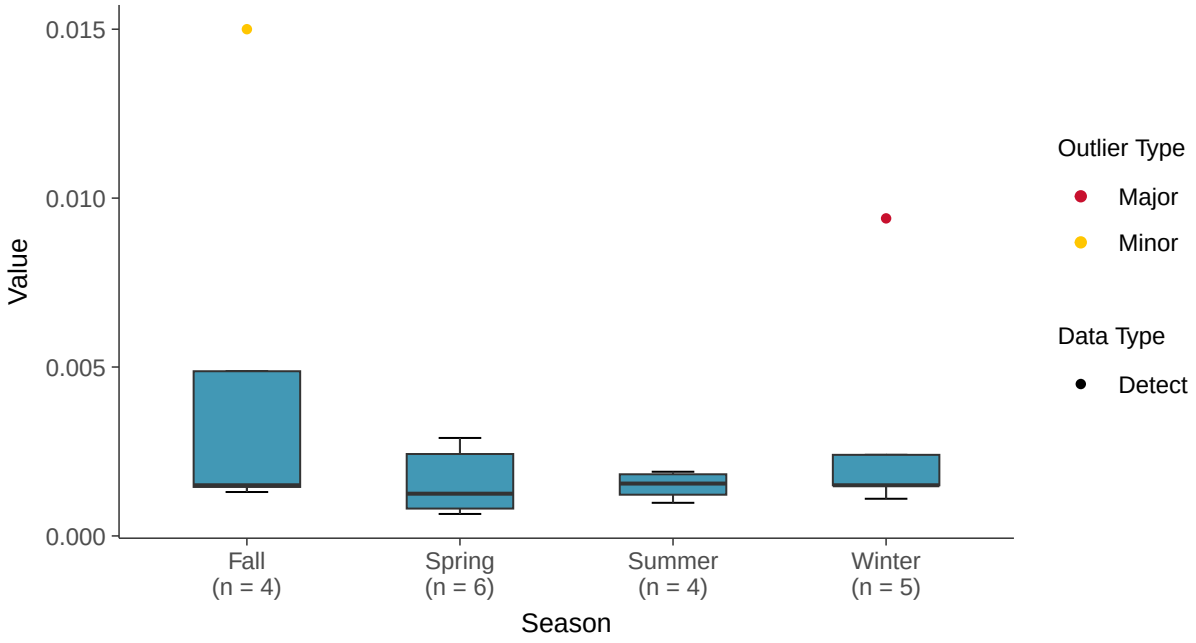
Boxplot

Nickel, MW-11 (mg/L)



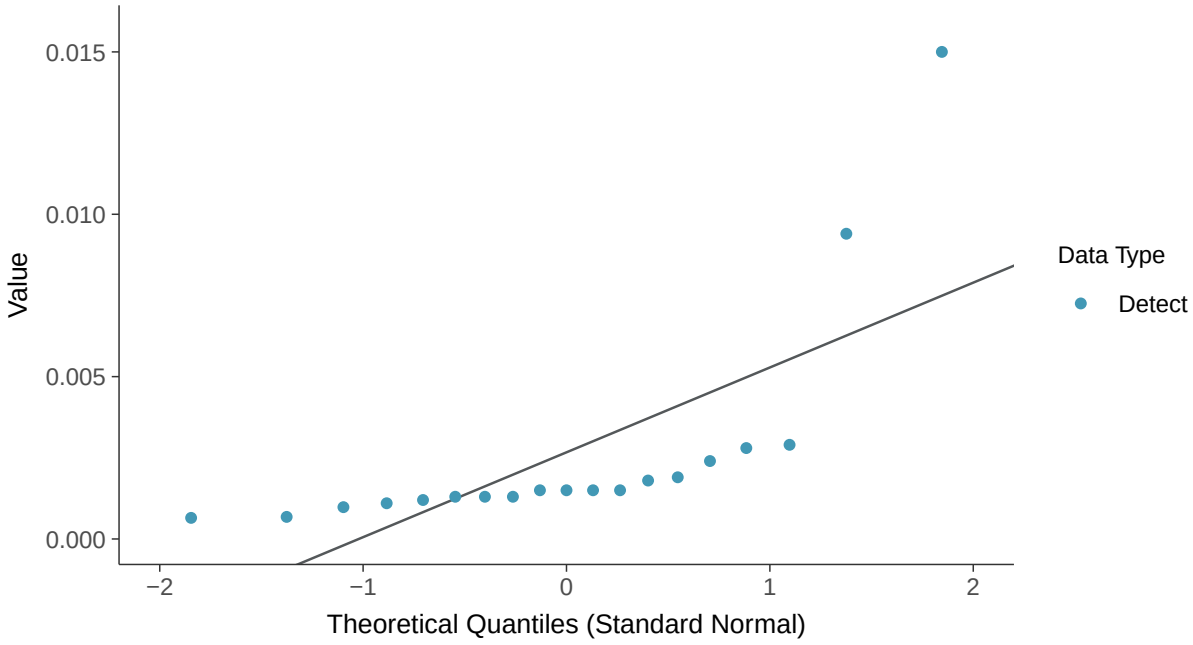
Boxplot by Season

Nickel, MW-11 (mg/L)



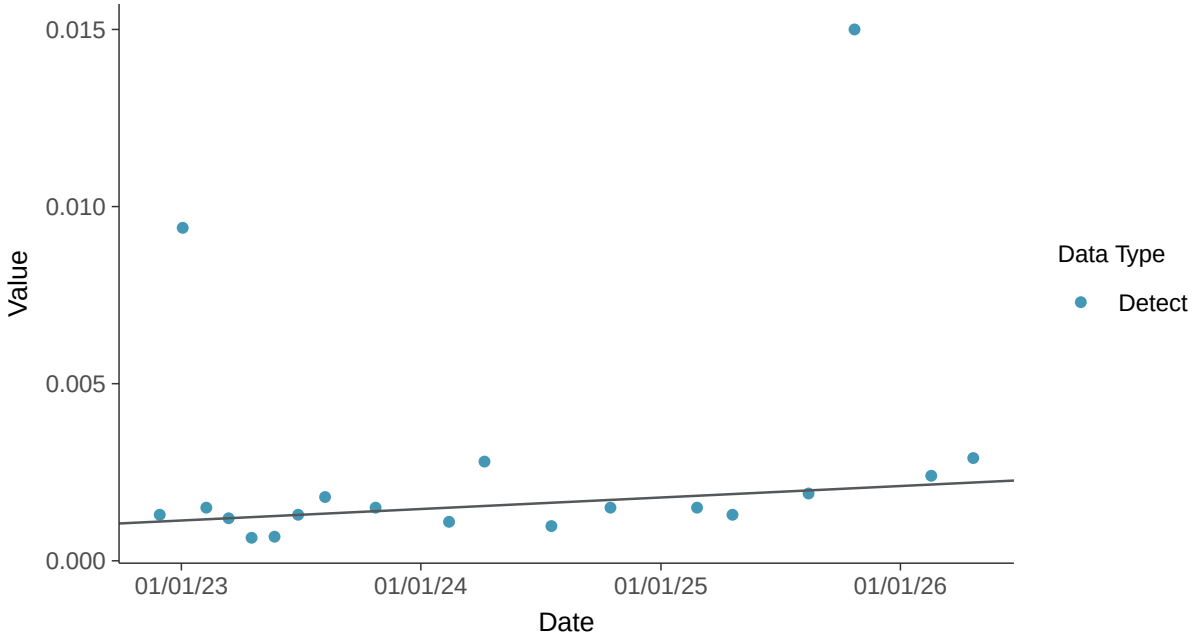
Normal Q-Q plot

Nickel, MW-11 (mg/L)



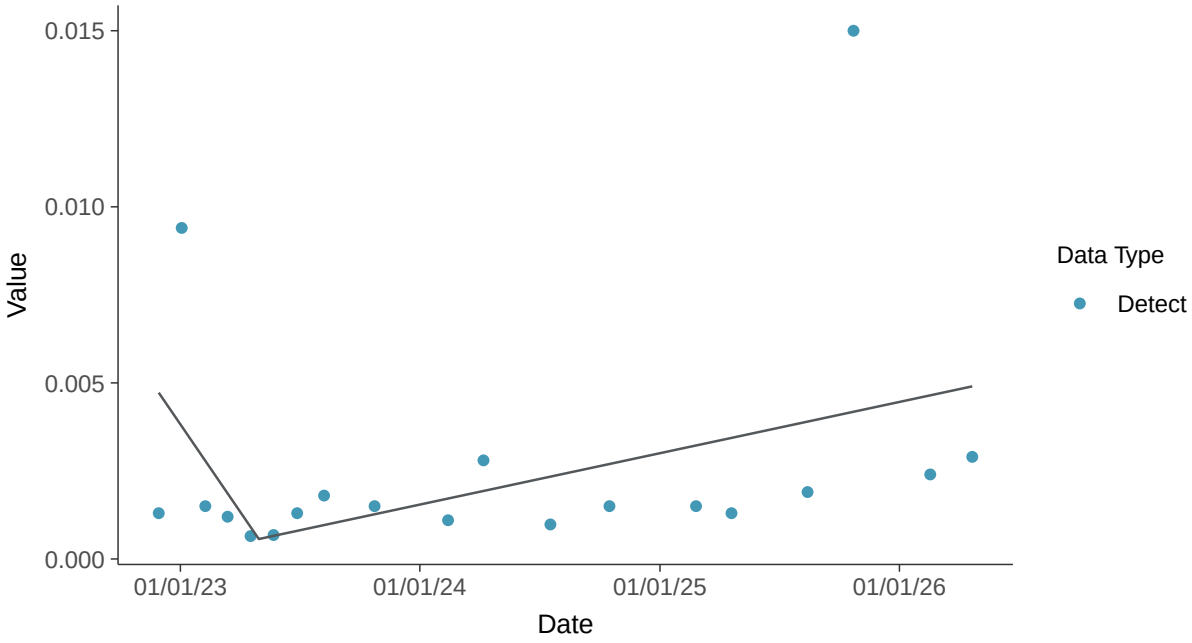
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-11 (mg/L)



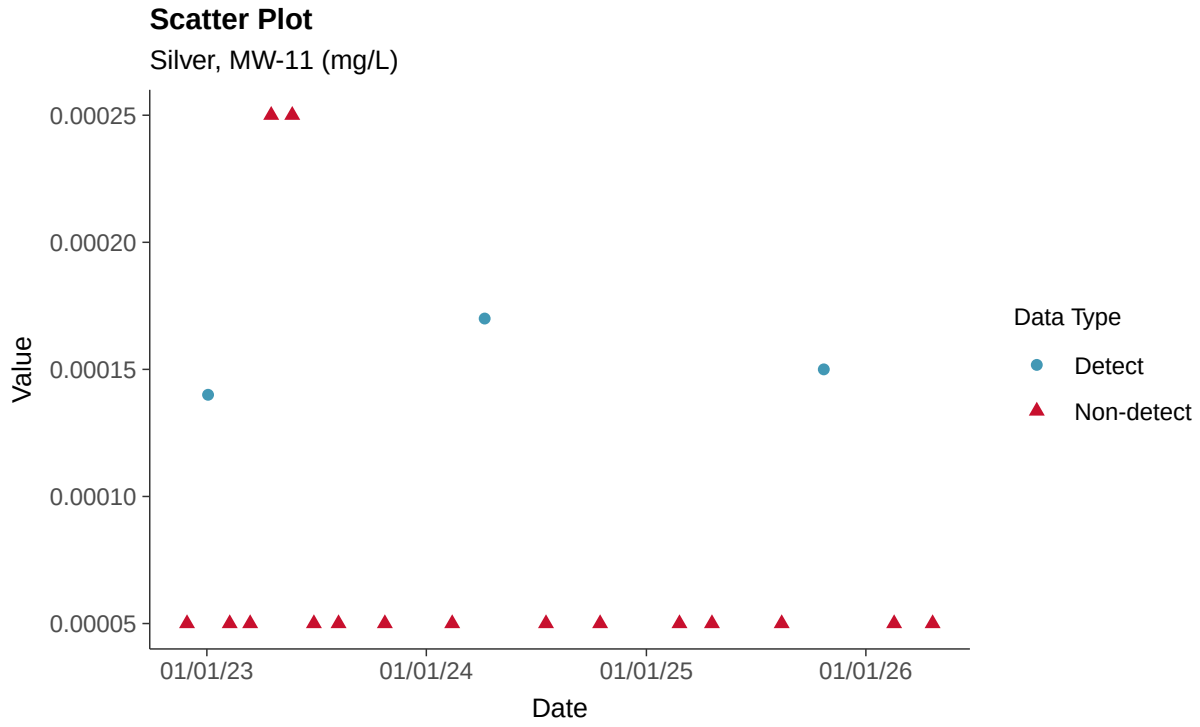
Trend Regression: Piecewise Linear-Linear

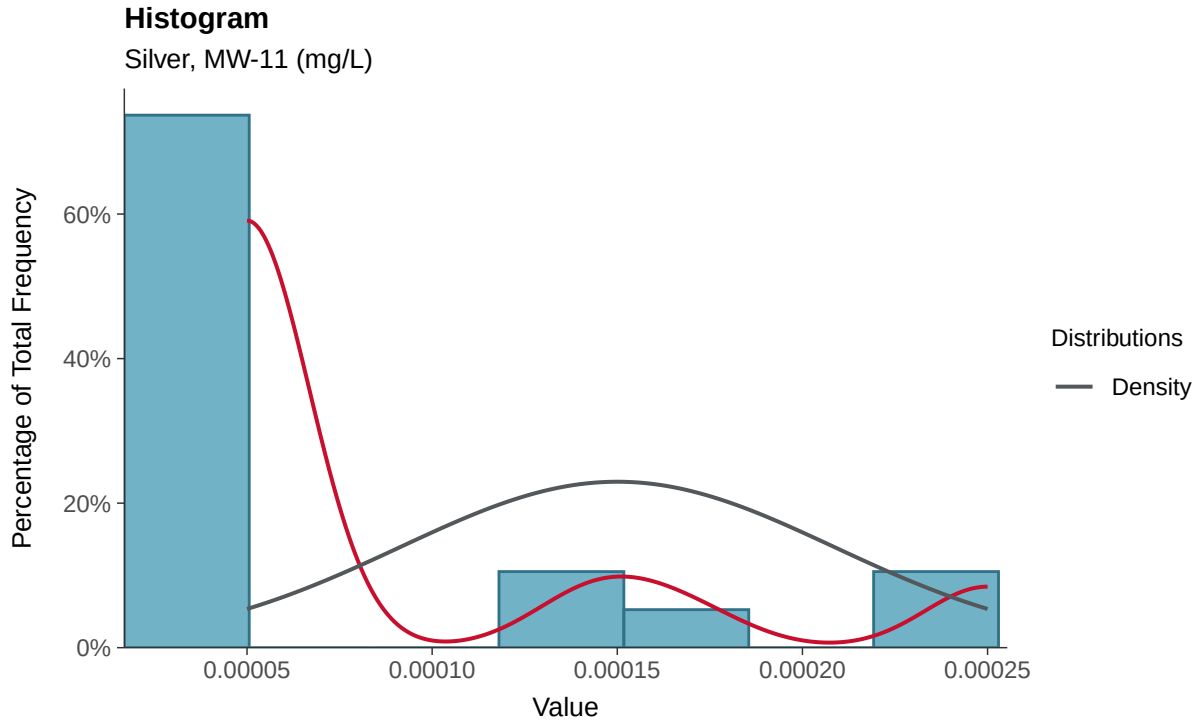
Nickel, MW-11 (mg/L)



Part 115: Silver, MW-11

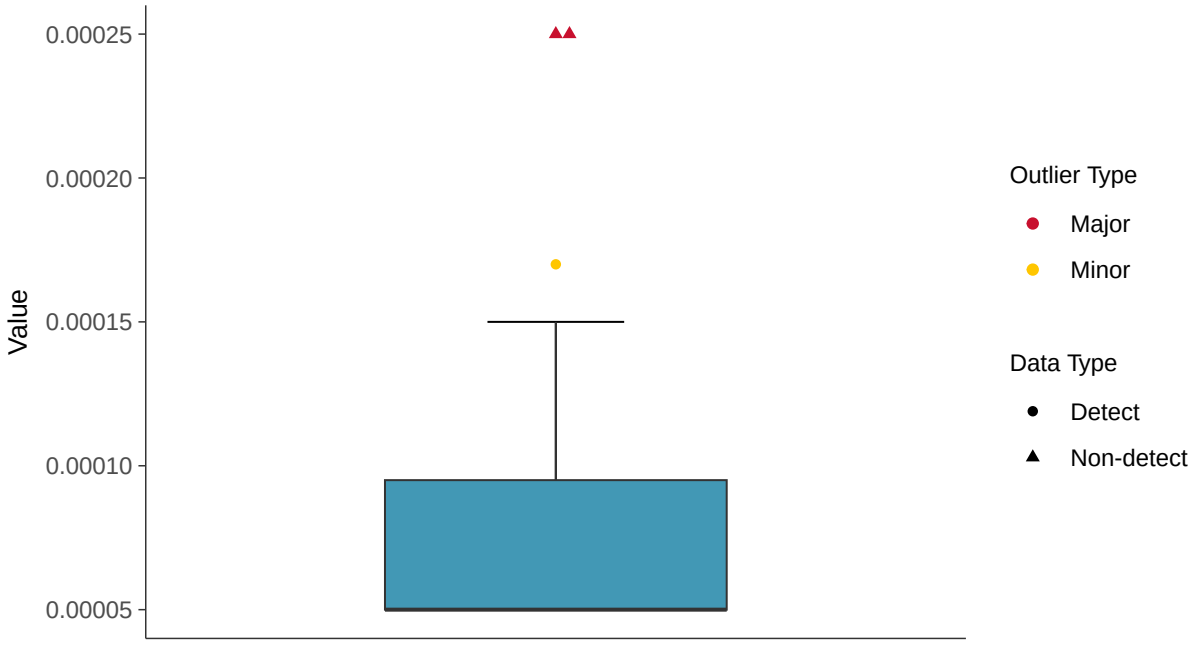
ID: 21_2_5_123





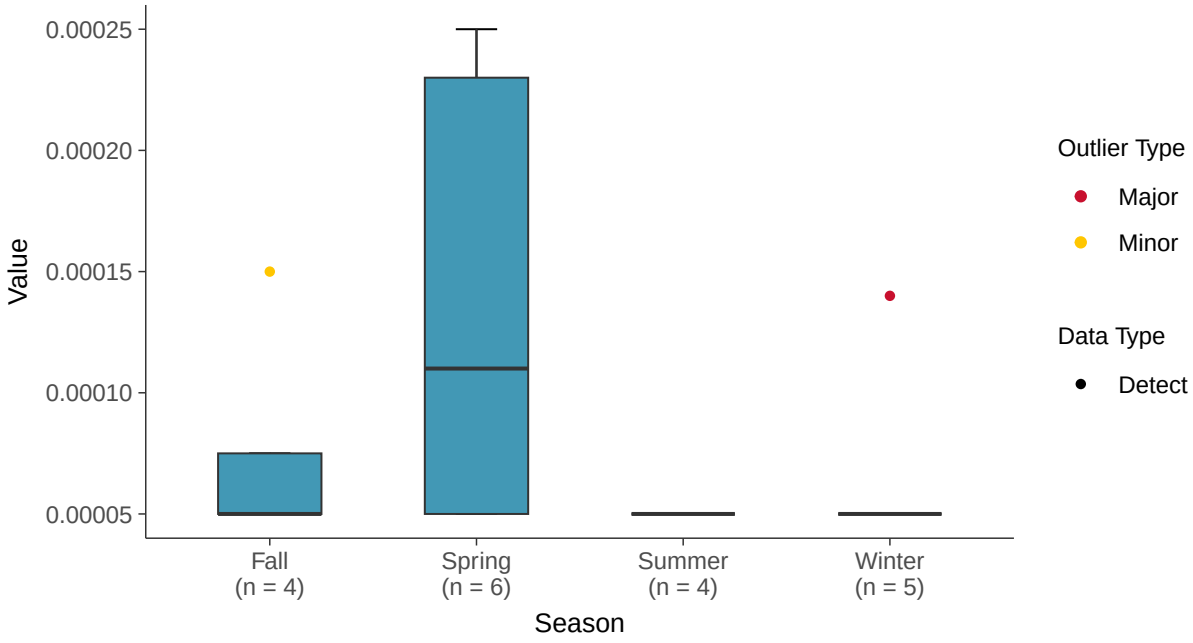
Boxplot

Silver, MW-11 (mg/L)



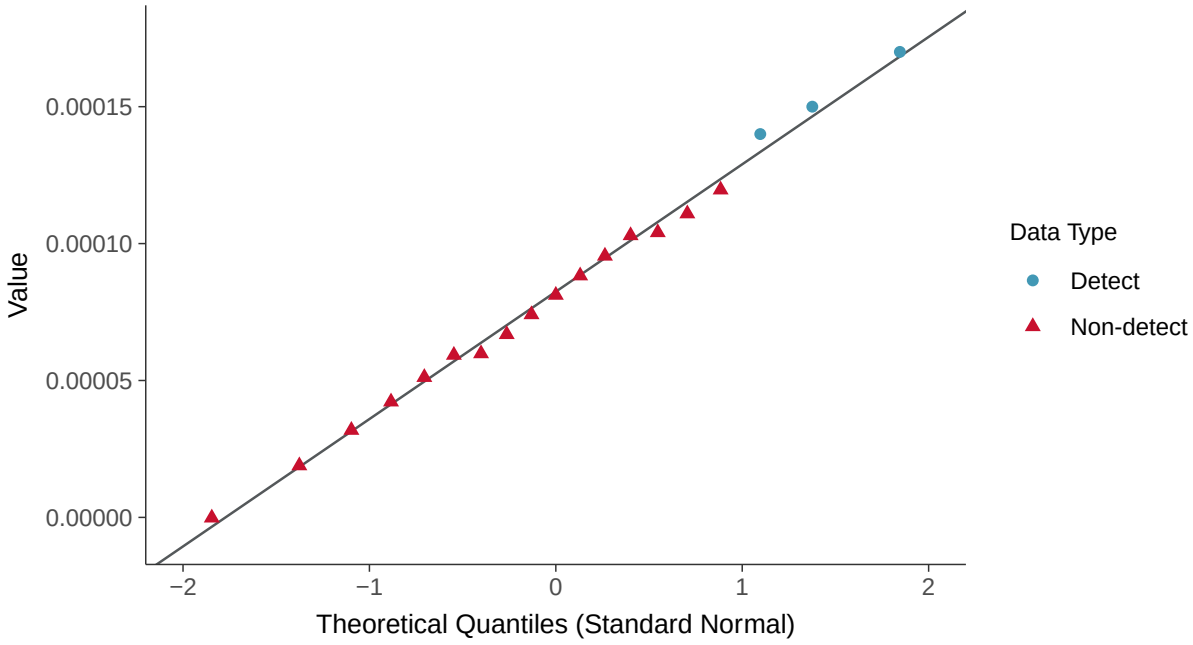
Boxplot by Season

Silver, MW-11 (mg/L)



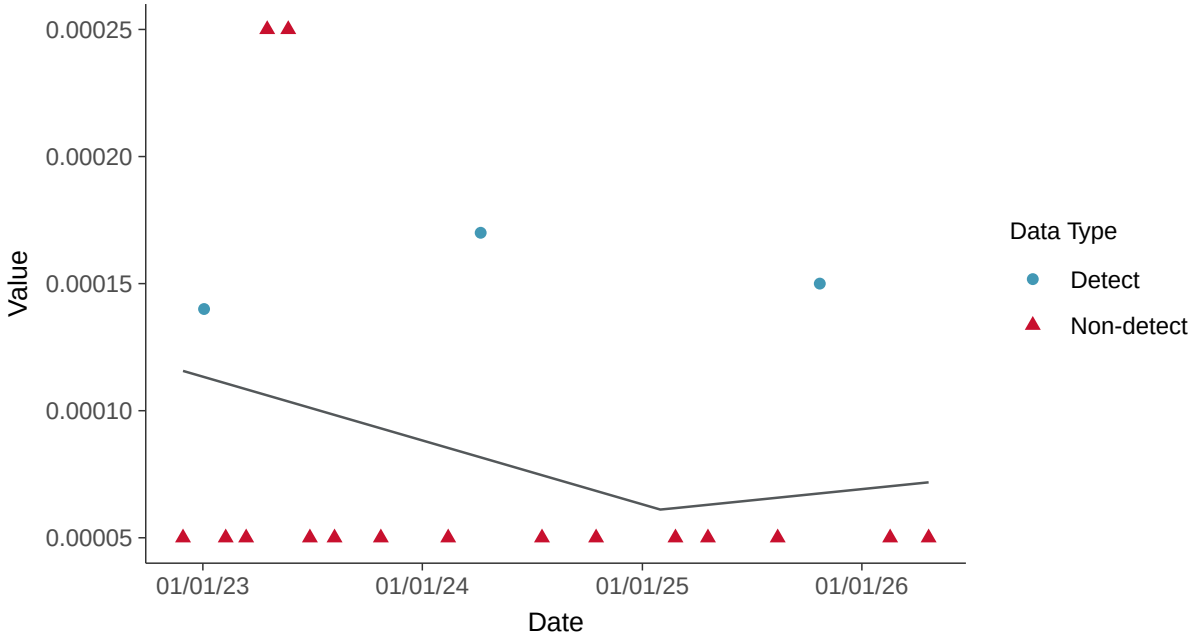
Normal Q-Q plot using ROS Imputed Estimates

Silver, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear

Silver, MW-11 (mg/L)

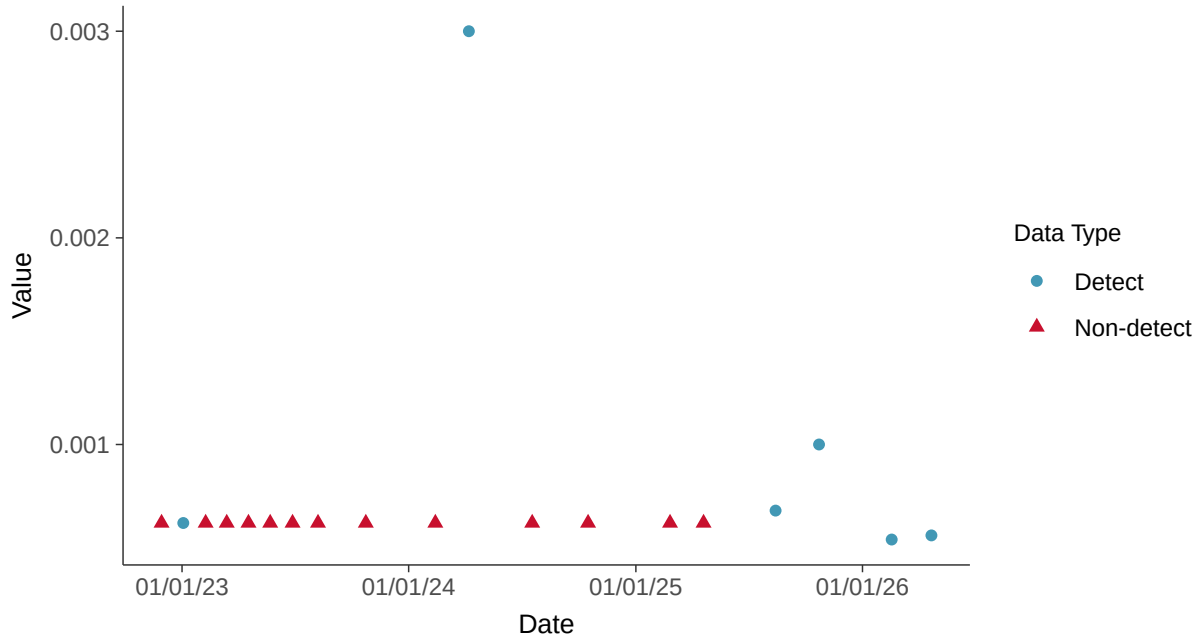


Part 115: Vanadium, MW-11

ID: 21_2_5_128

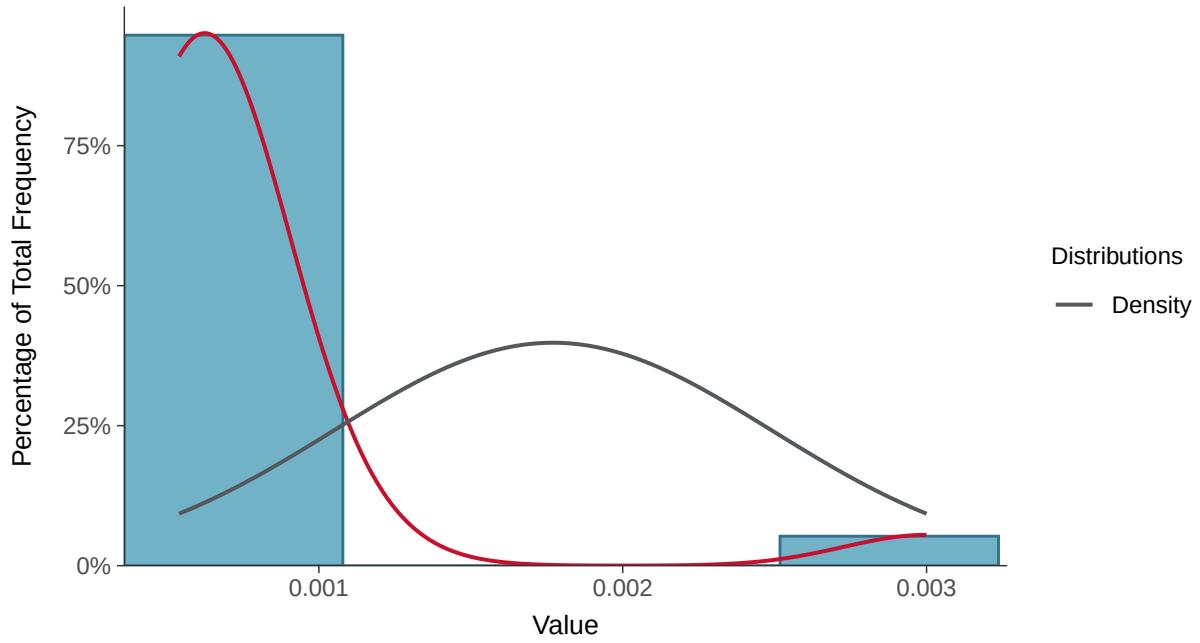
Scatter Plot

Vanadium, MW-11 (mg/L)



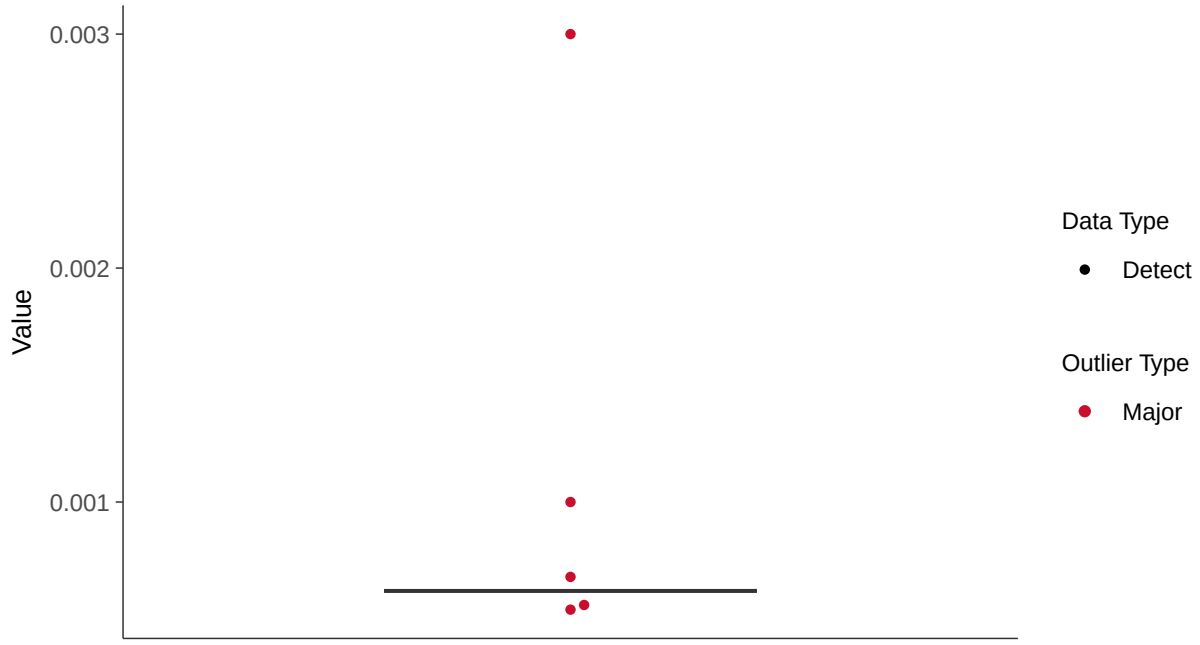
Histogram

Vanadium, MW-11 (mg/L)



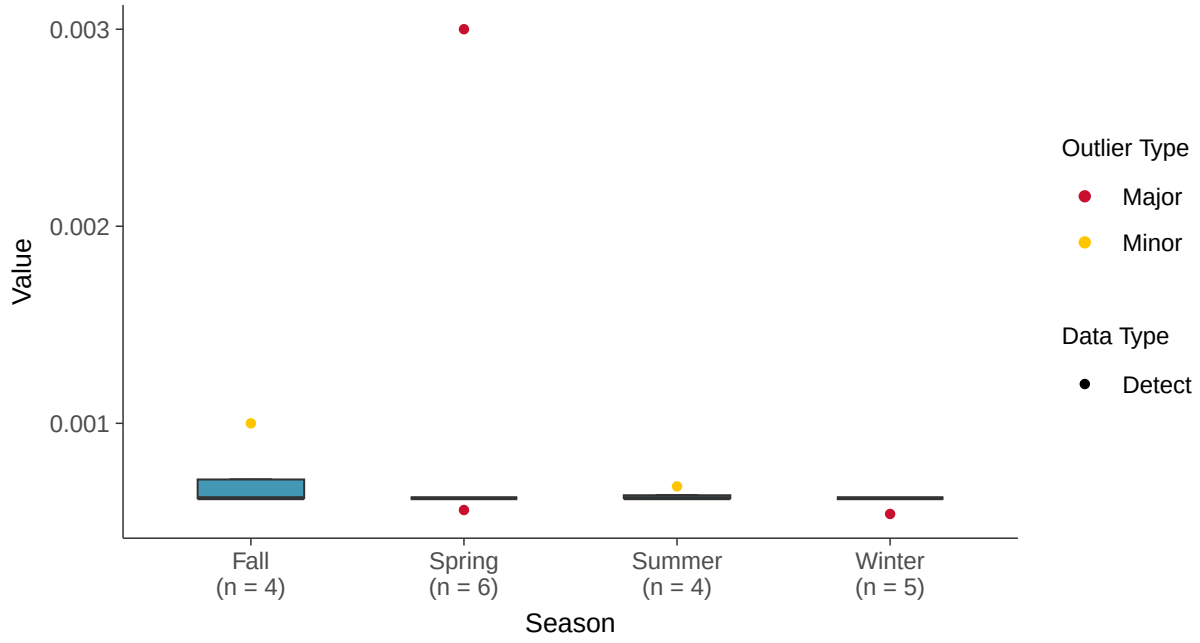
Boxplot

Vanadium, MW-11 (mg/L)



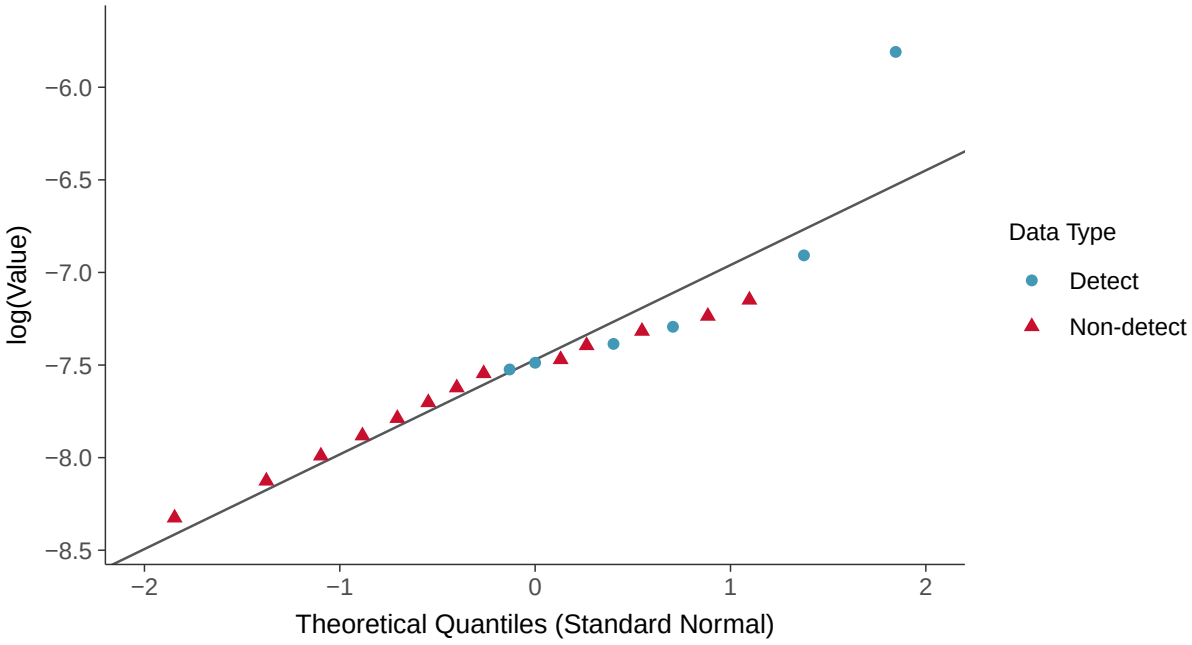
Boxplot by Season

Vanadium, MW-11 (mg/L)



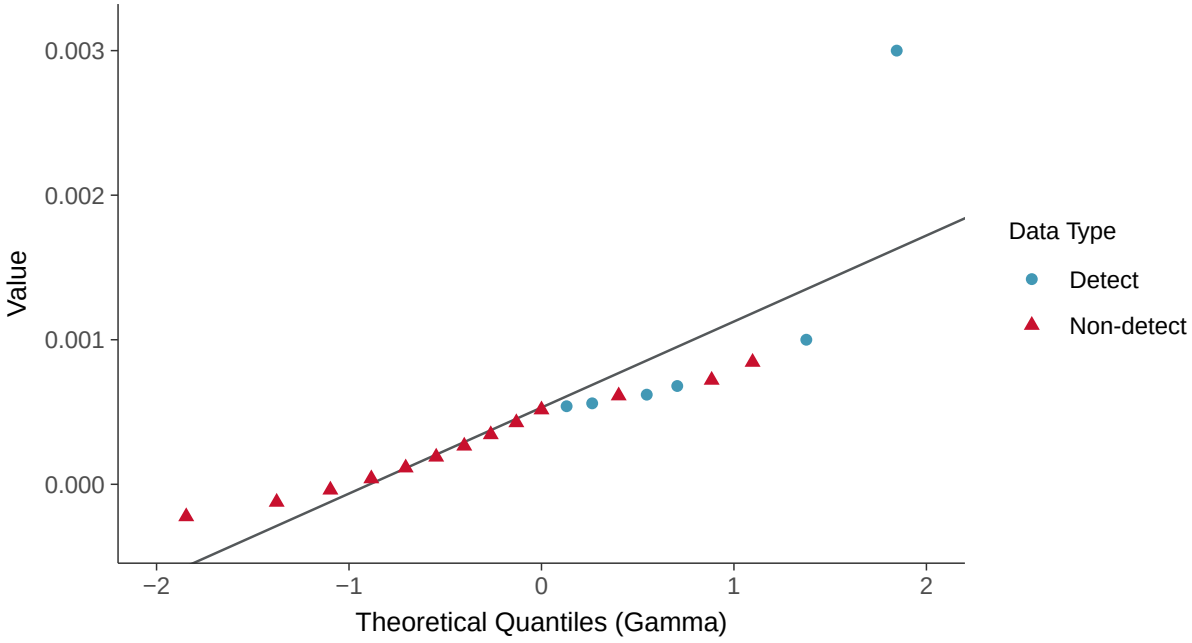
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-11 (mg/L)



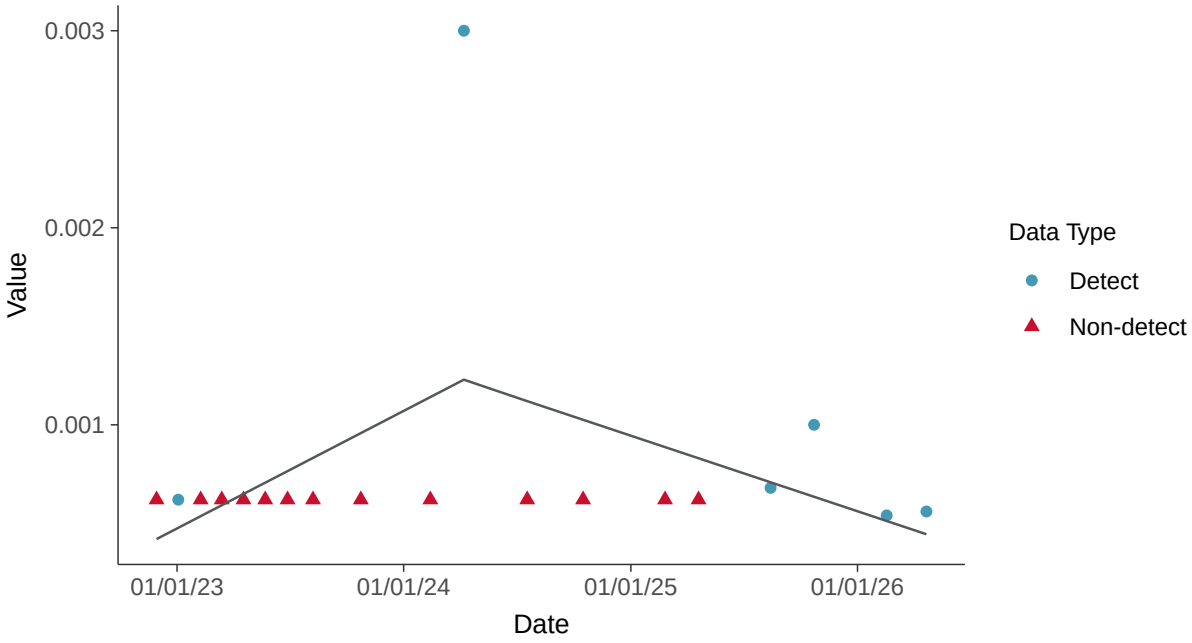
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-11 (mg/L)



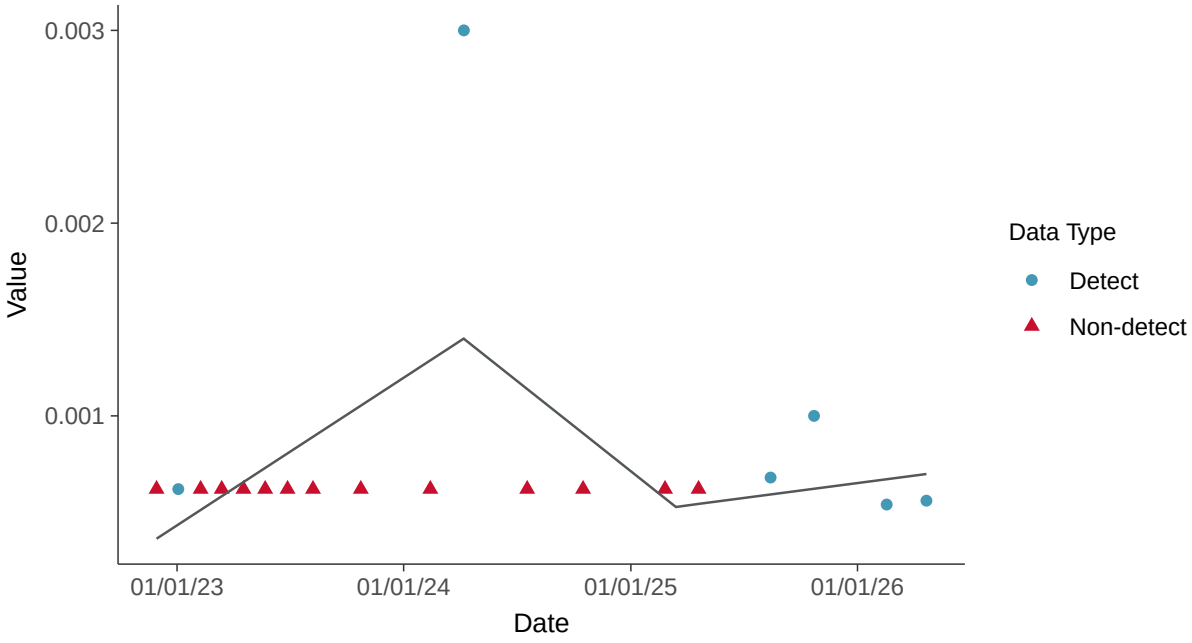
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-11 (mg/L)

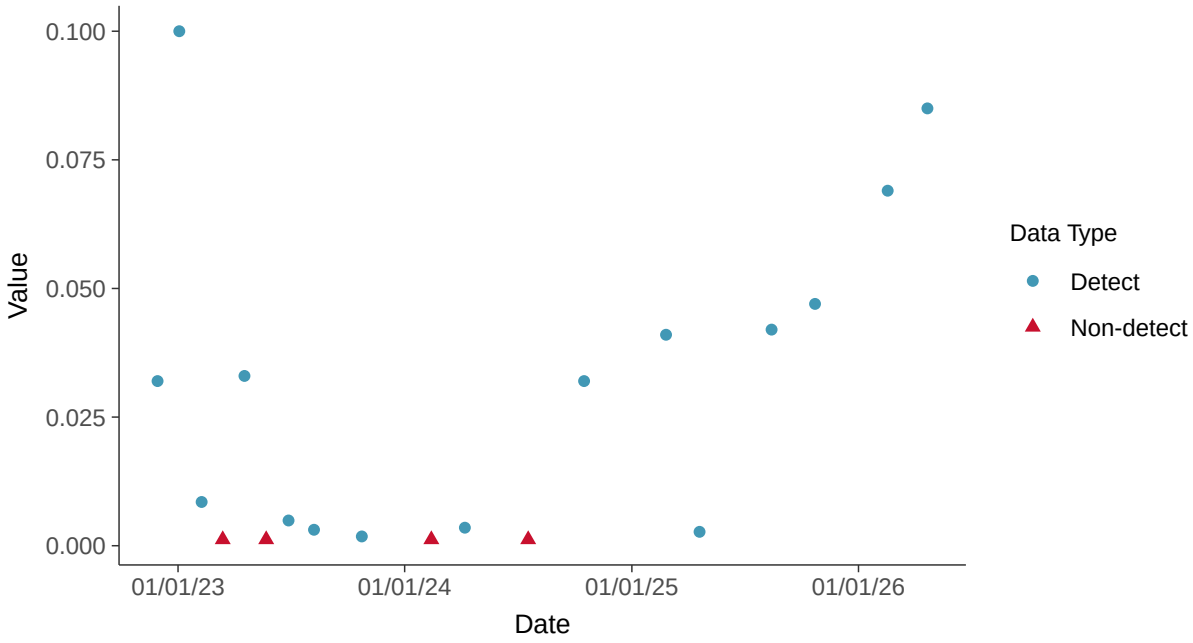


Part 115: Zinc, MW-11

ID: 21_2_5_129

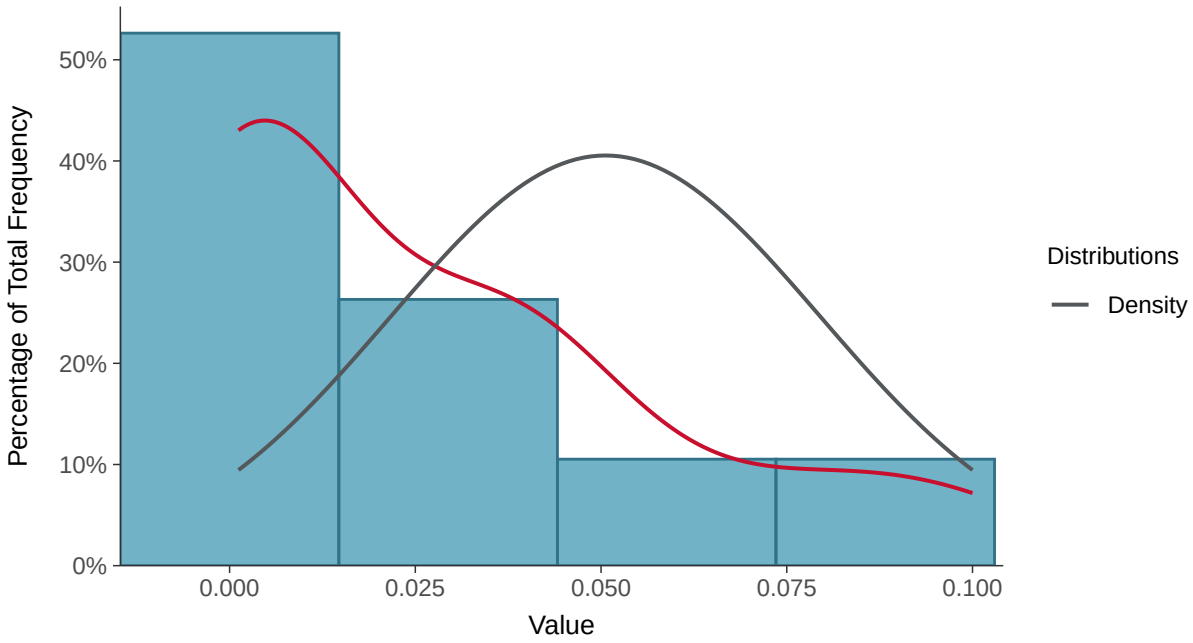
Scatter Plot

Zinc, MW-11 (mg/L)



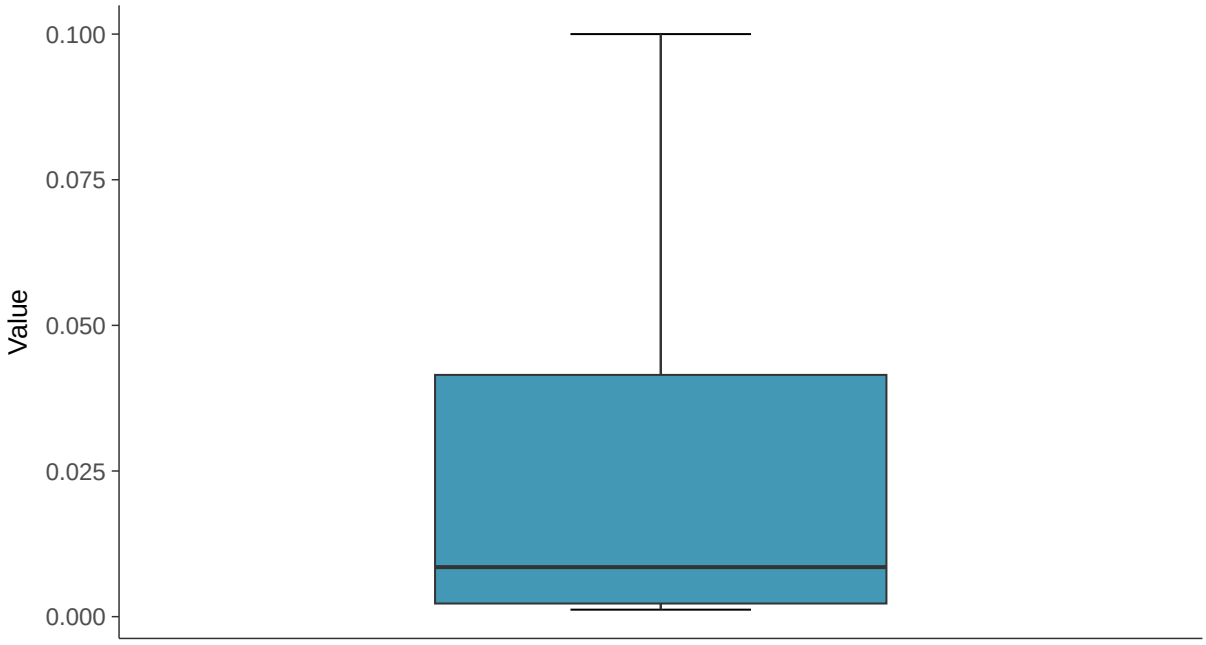
Histogram

Zinc, MW-11 (mg/L)



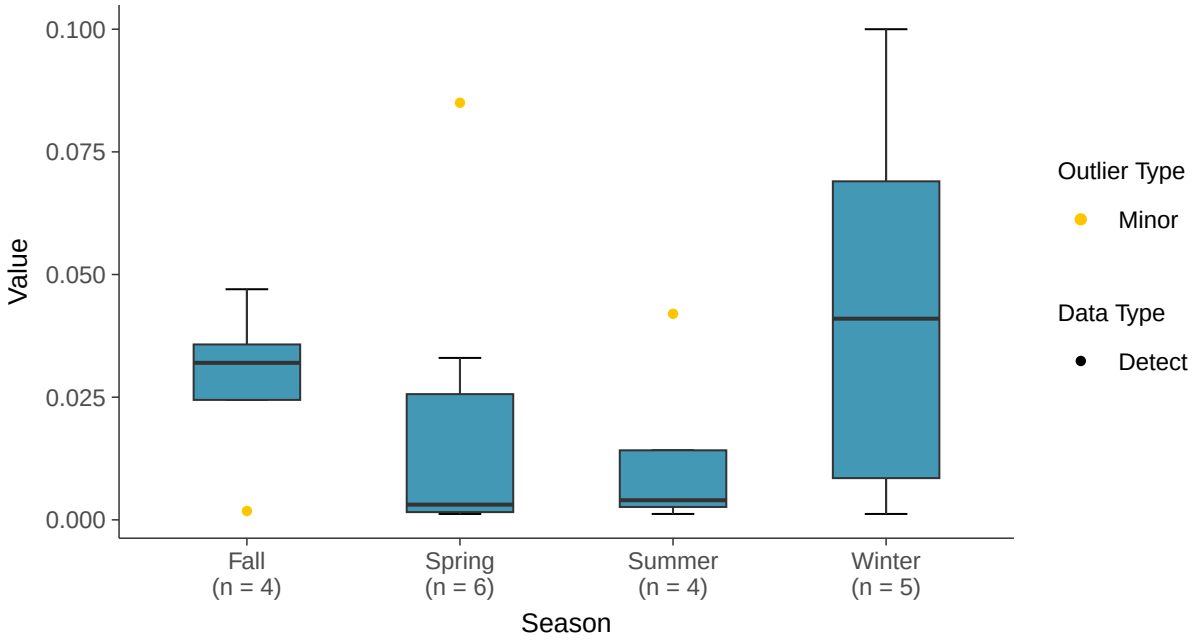
Boxplot

Zinc, MW-11 (mg/L)



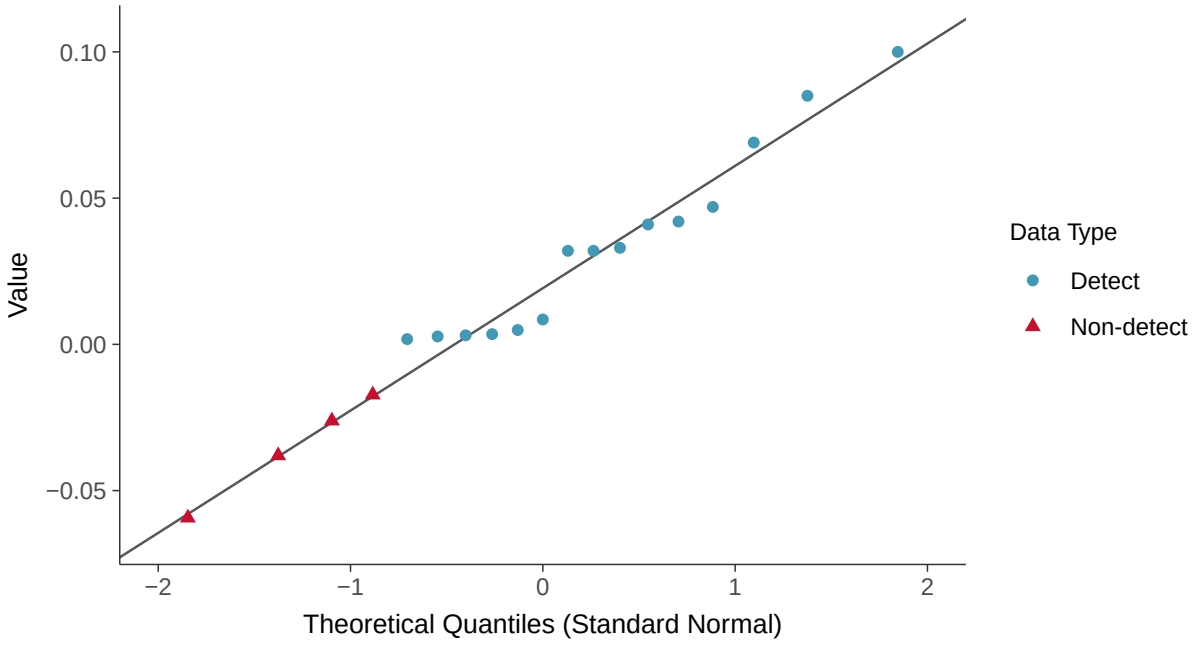
Boxplot by Season

Zinc, MW-11 (mg/L)



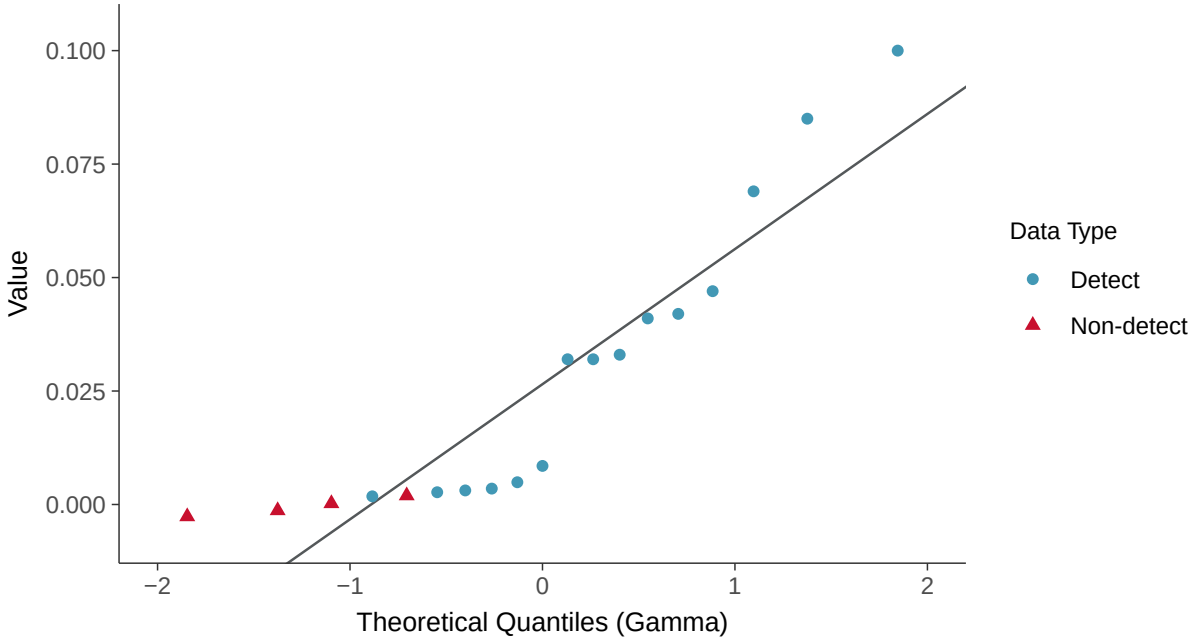
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-11 (mg/L)



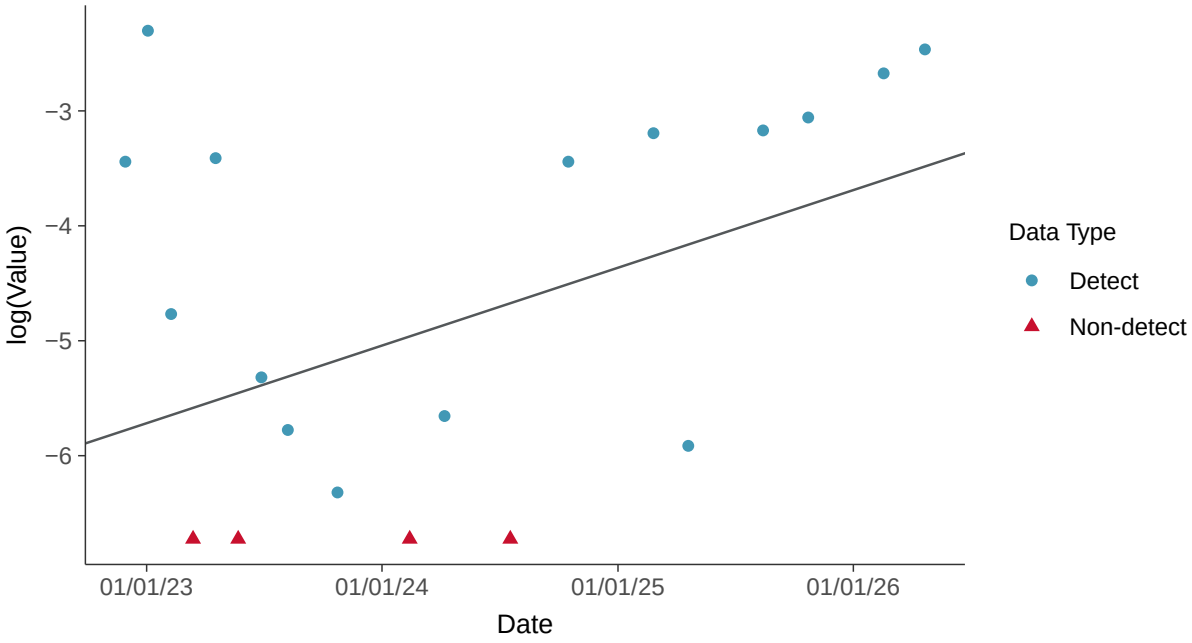
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-11 (mg/L)



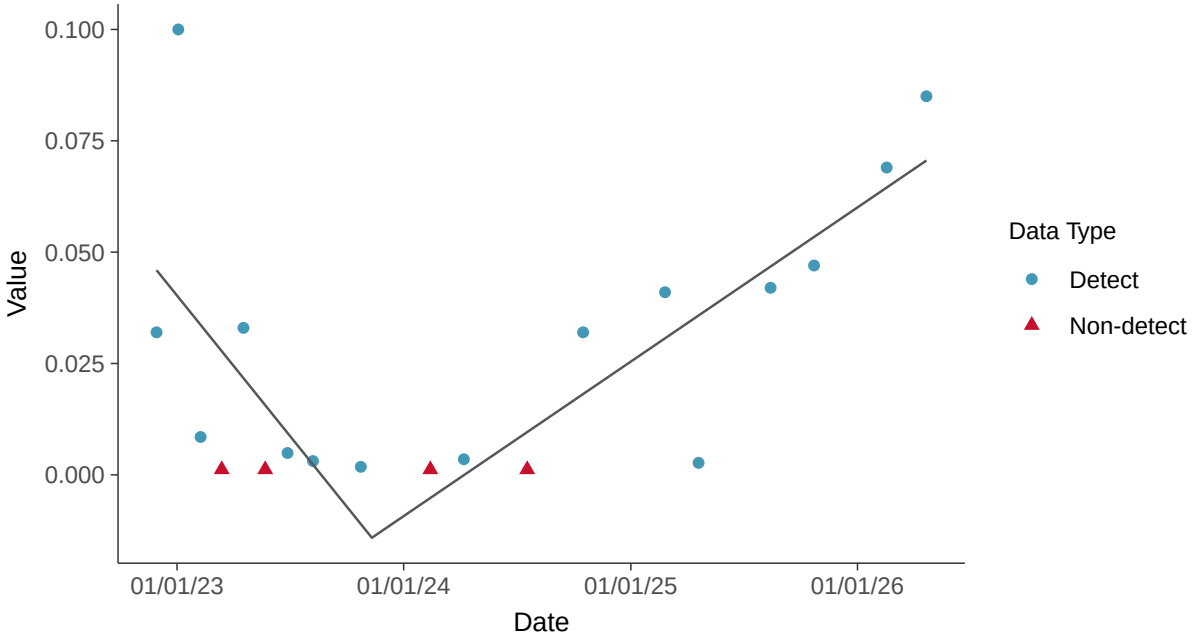
Trend Regression: Lognormal MLE

Zinc, MW-11 (mg/L)



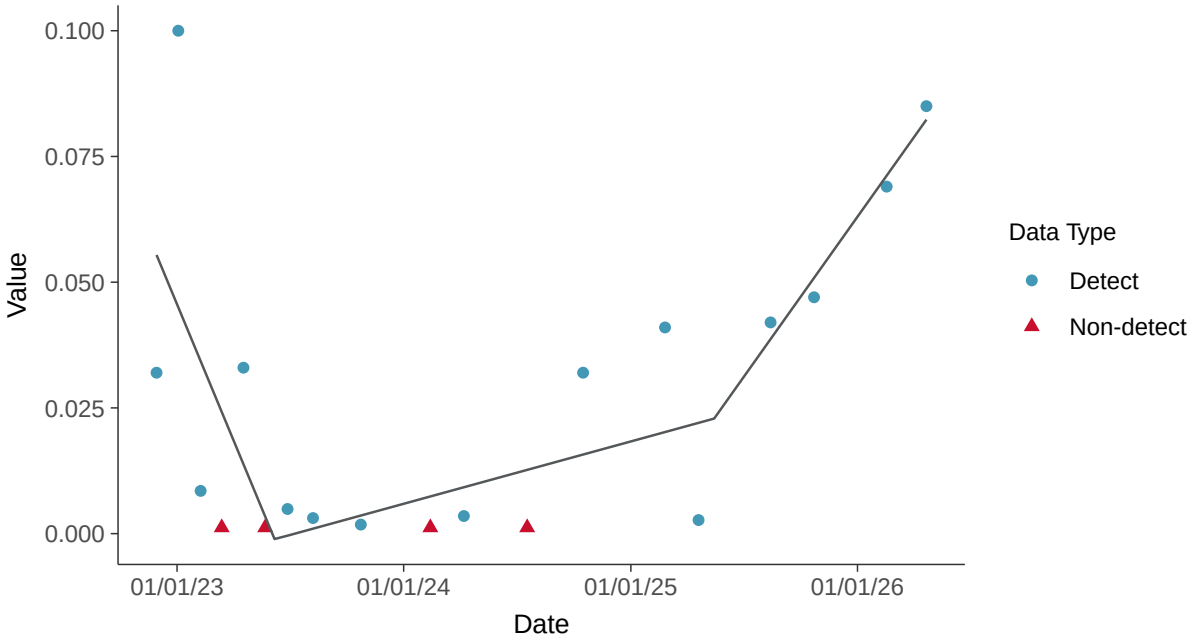
Trend Regression: Piecewise Linear-Linear

Zinc, MW-11 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-11 (mg/L)

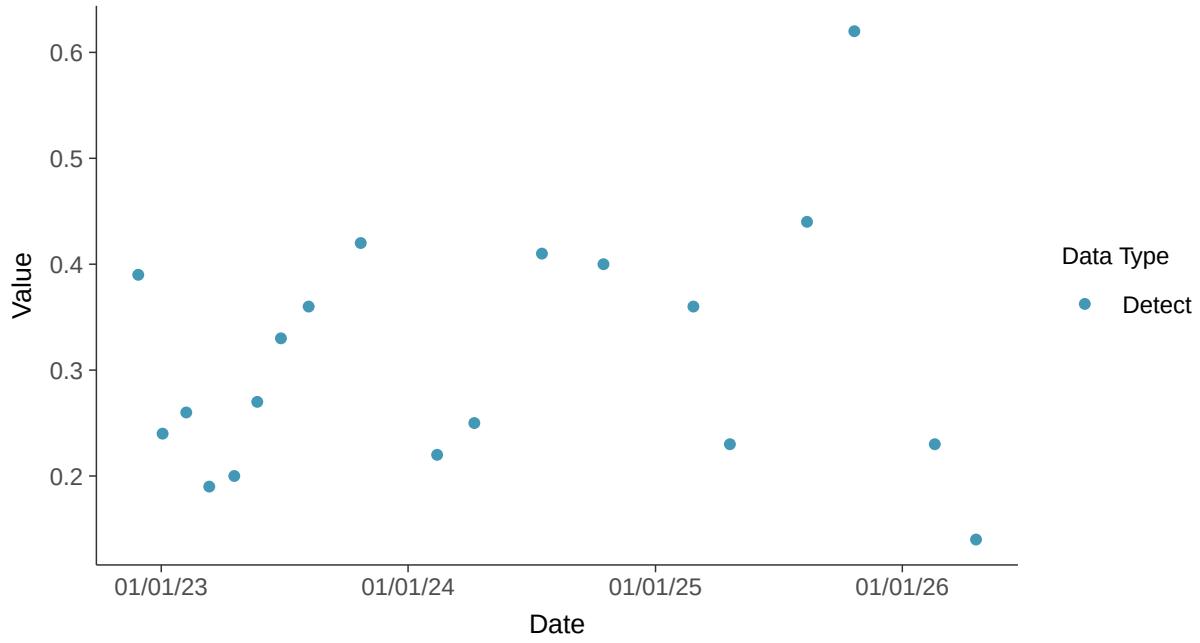


Appendix III: Boron, MW-12

ID: 22_2_3_105

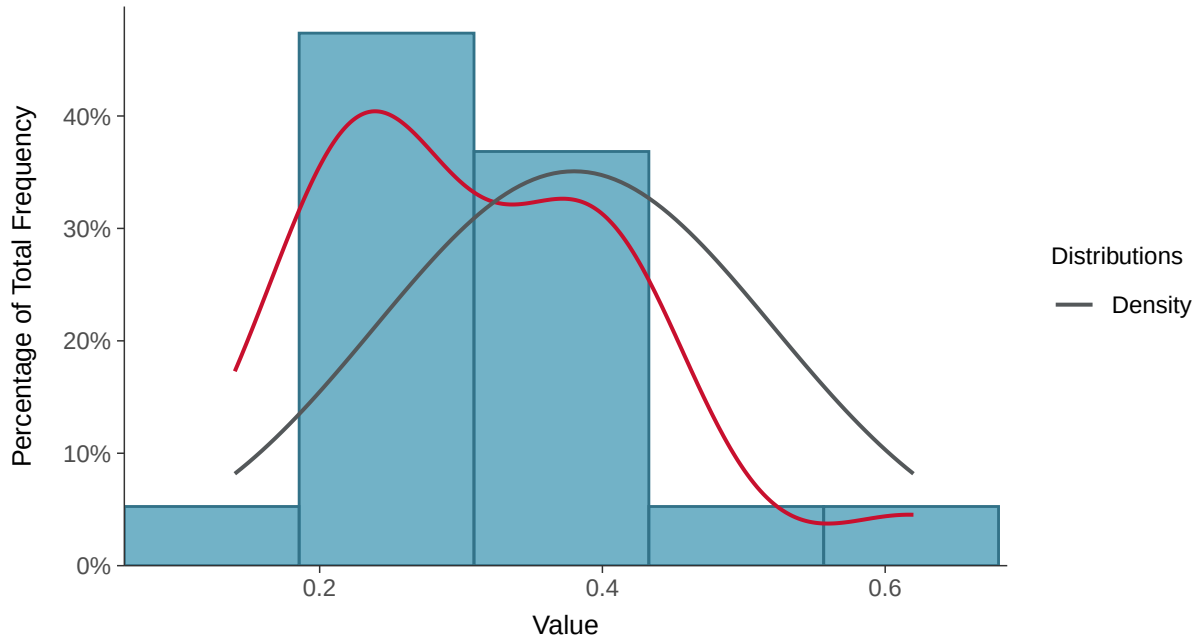
Scatter Plot

Boron, MW-12 (mg/L)



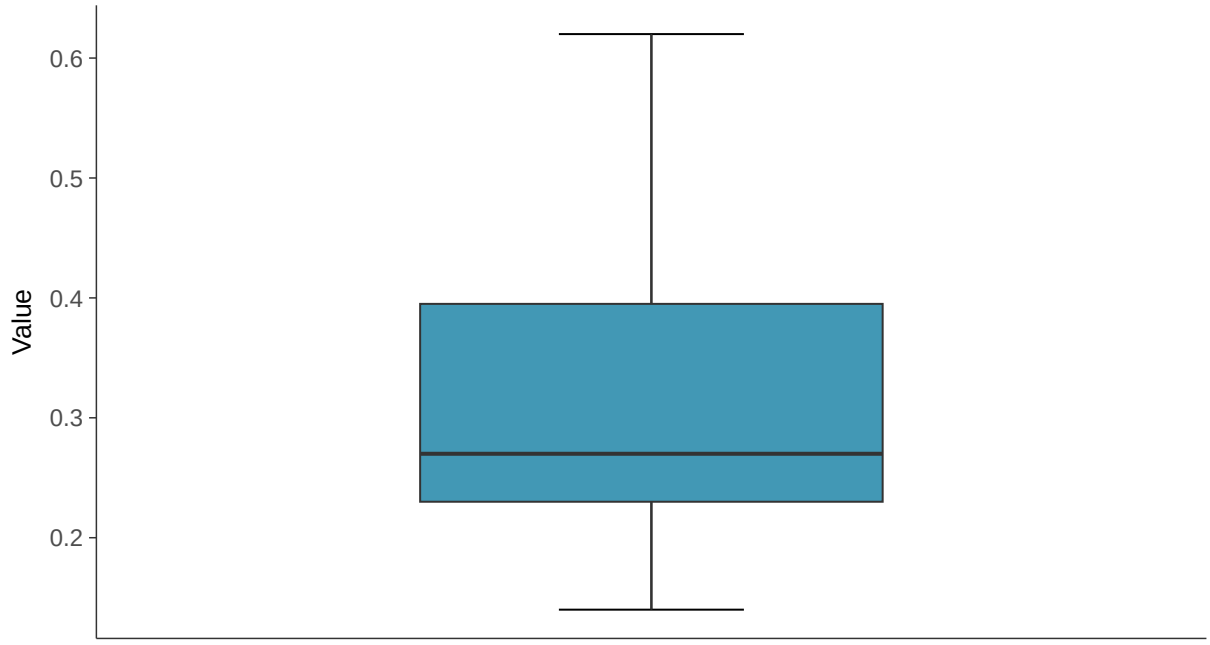
Histogram

Boron, MW-12 (mg/L)



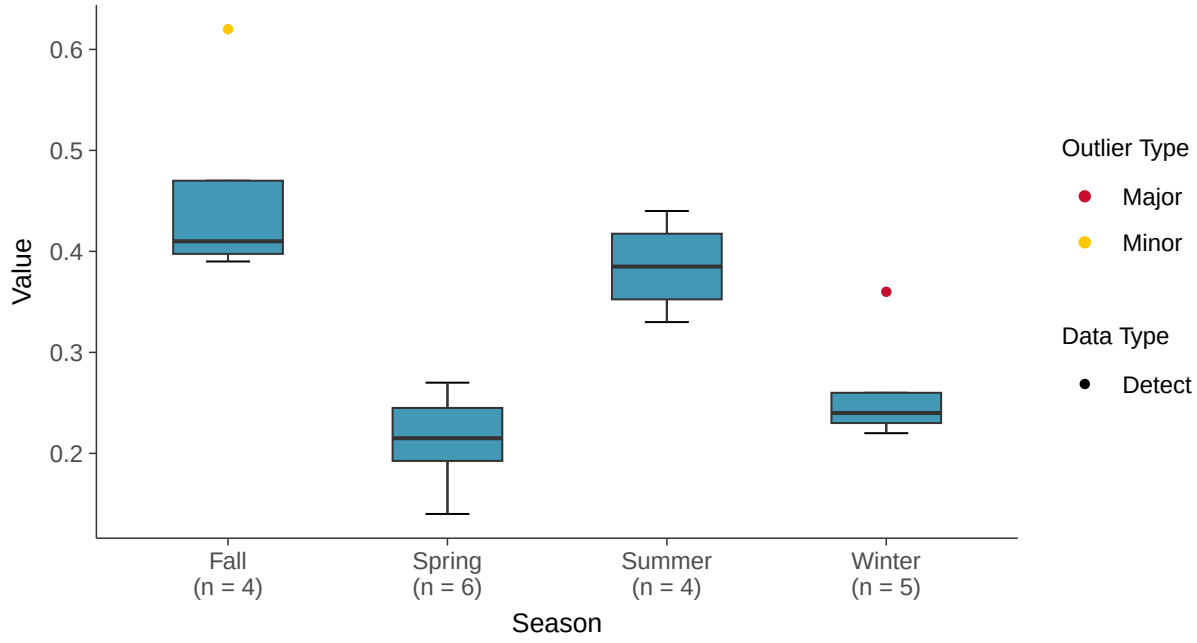
Boxplot

Boron, MW-12 (mg/L)



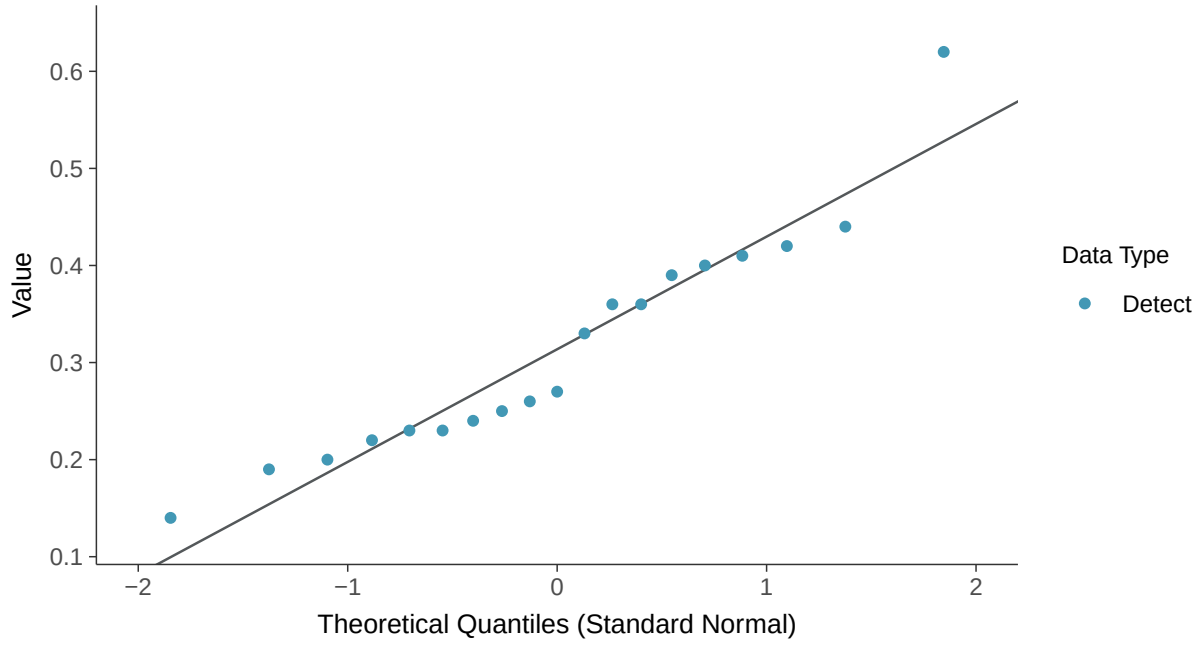
Boxplot by Season

Boron, MW-12 (mg/L)



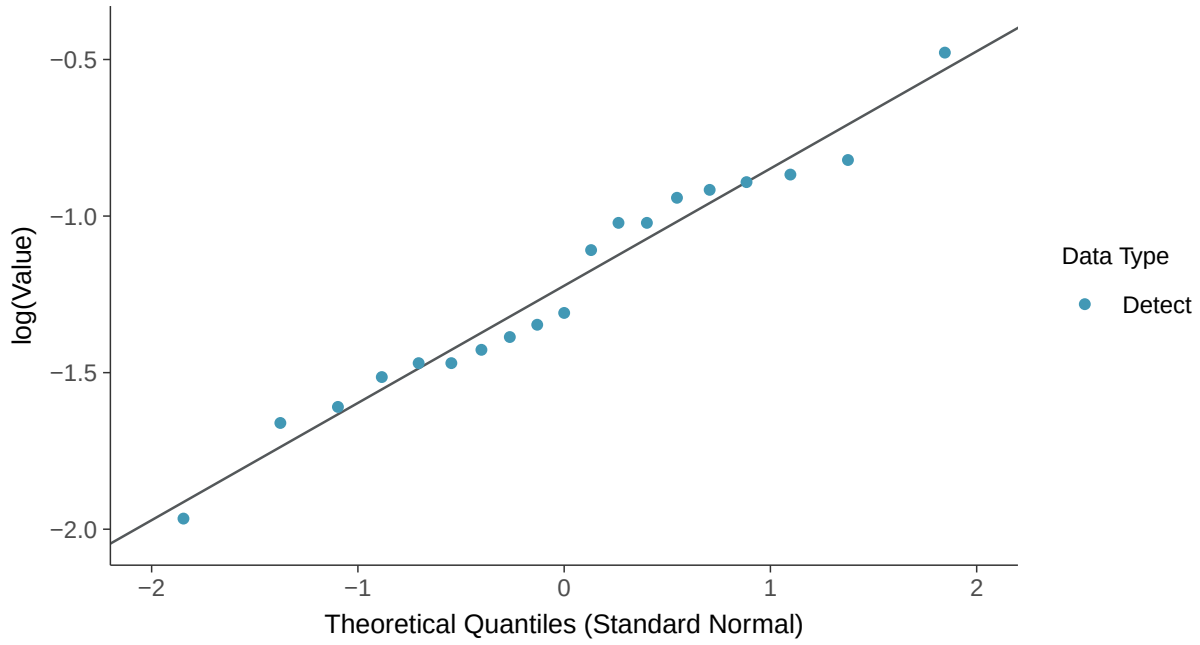
Normal Q-Q plot

Boron, MW-12 (mg/L)



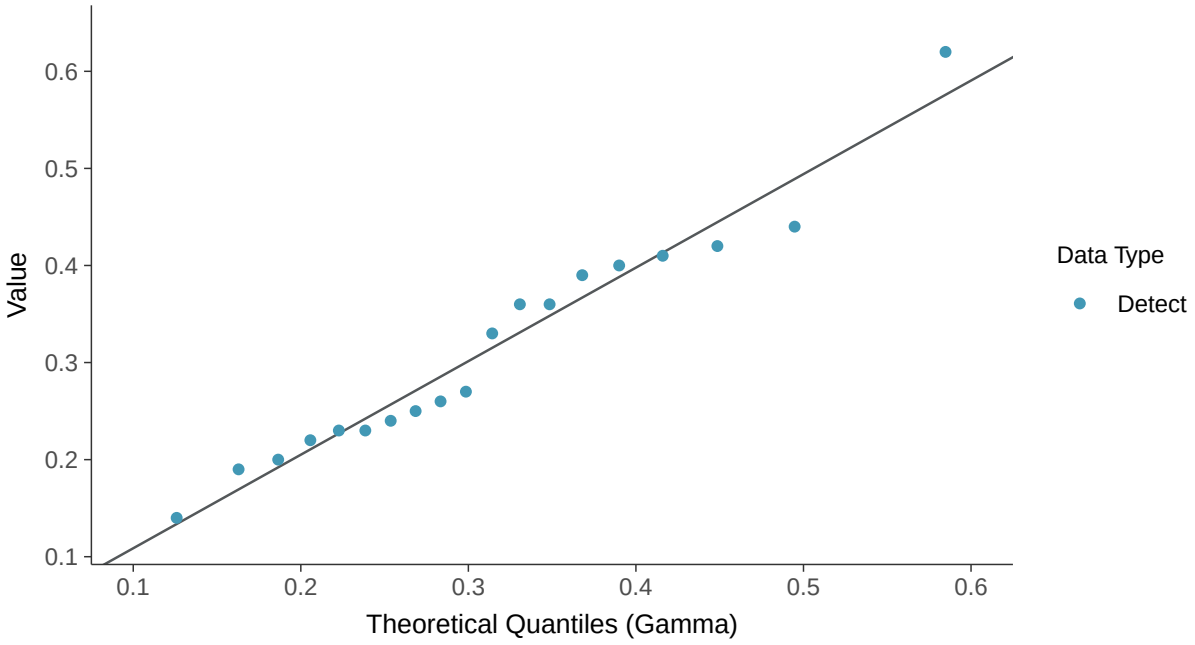
Lognormal Q-Q plot

Boron, MW-12 (mg/L)



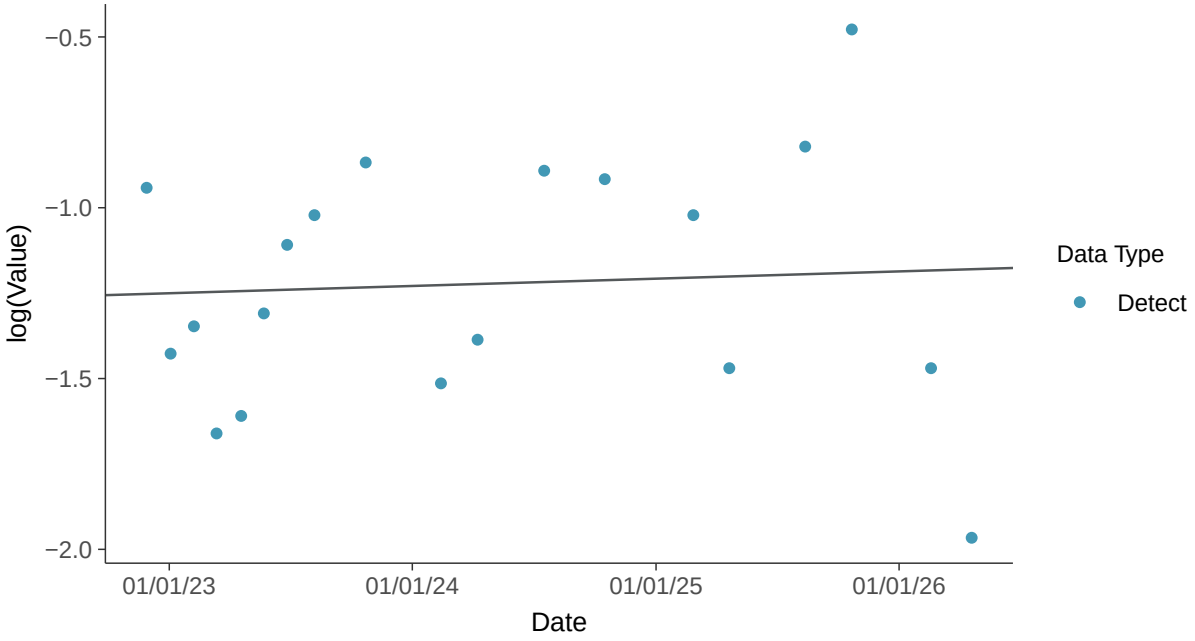
Gamma Q-Q plot

Boron, MW-12 (mg/L)



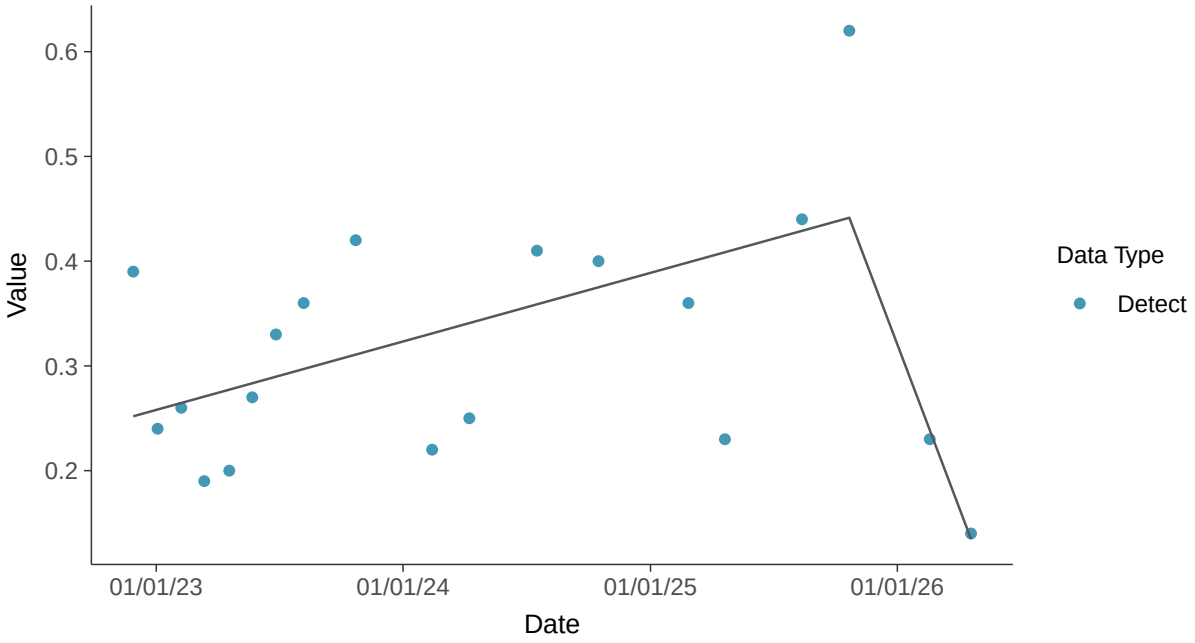
Trend Regression: Lognormal MLE

Boron, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-12 (mg/L)

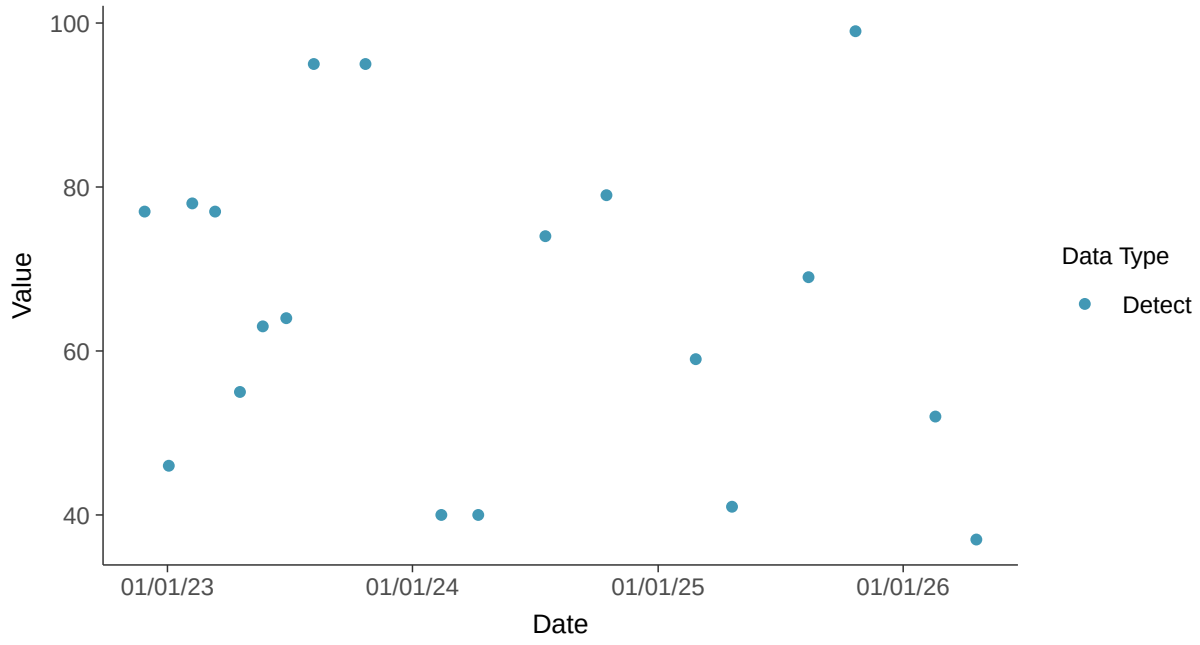


Appendix III: Calcium, MW-12

ID: 22_2_3_107

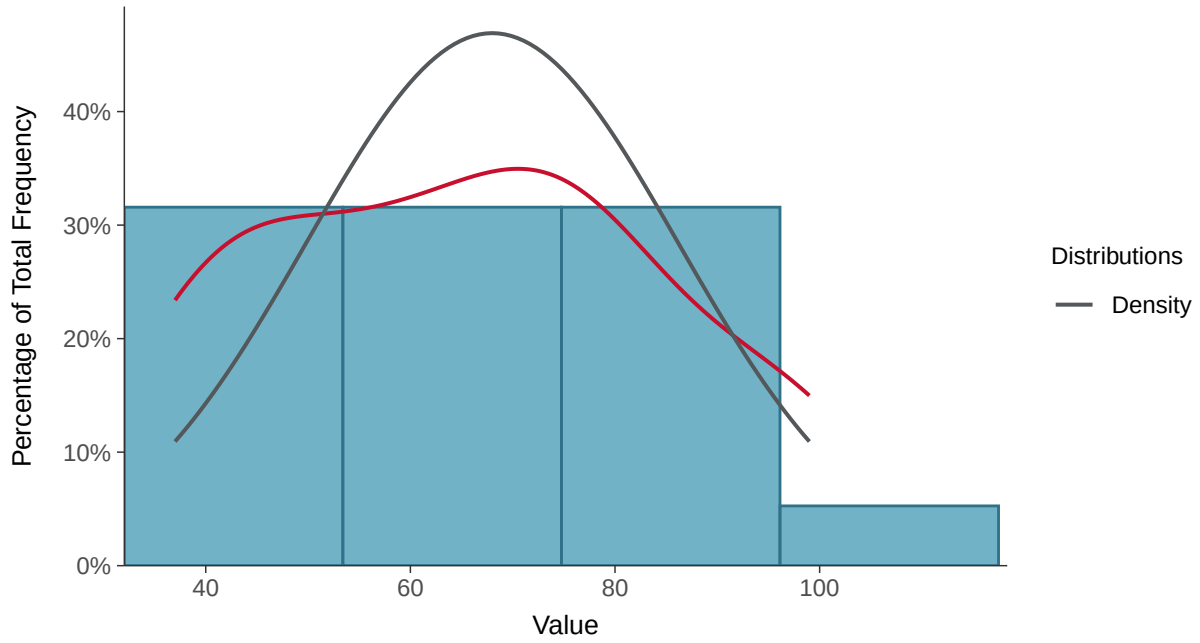
Scatter Plot

Calcium, MW-12 (mg/L)



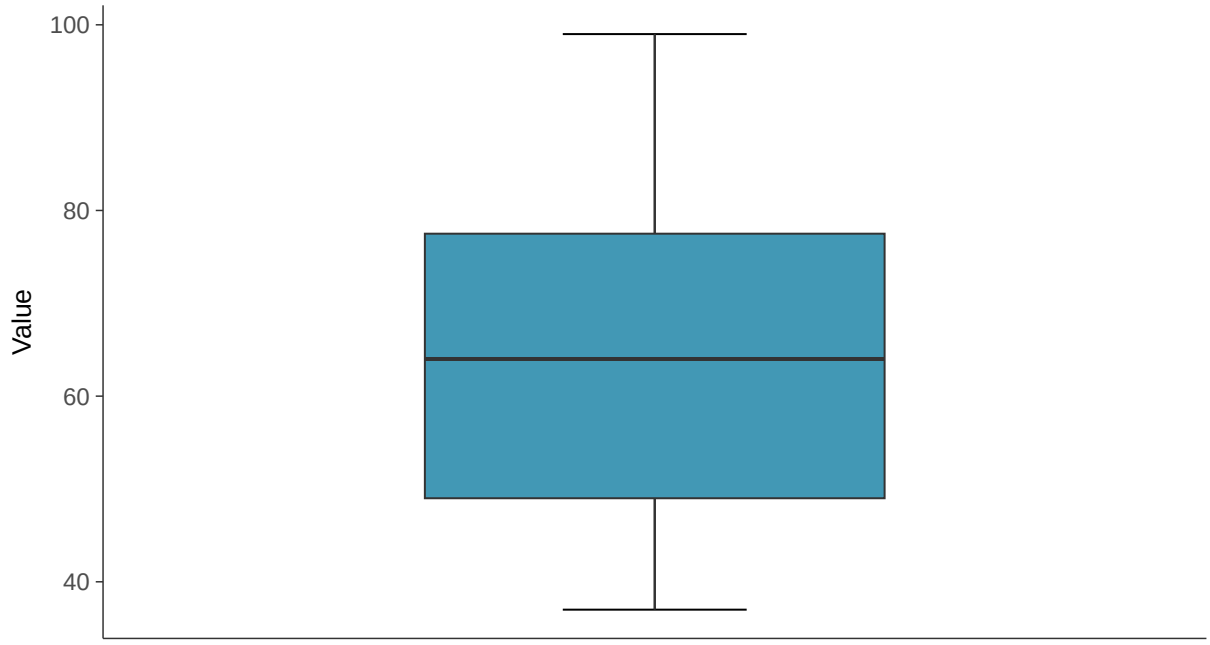
Histogram

Calcium, MW-12 (mg/L)



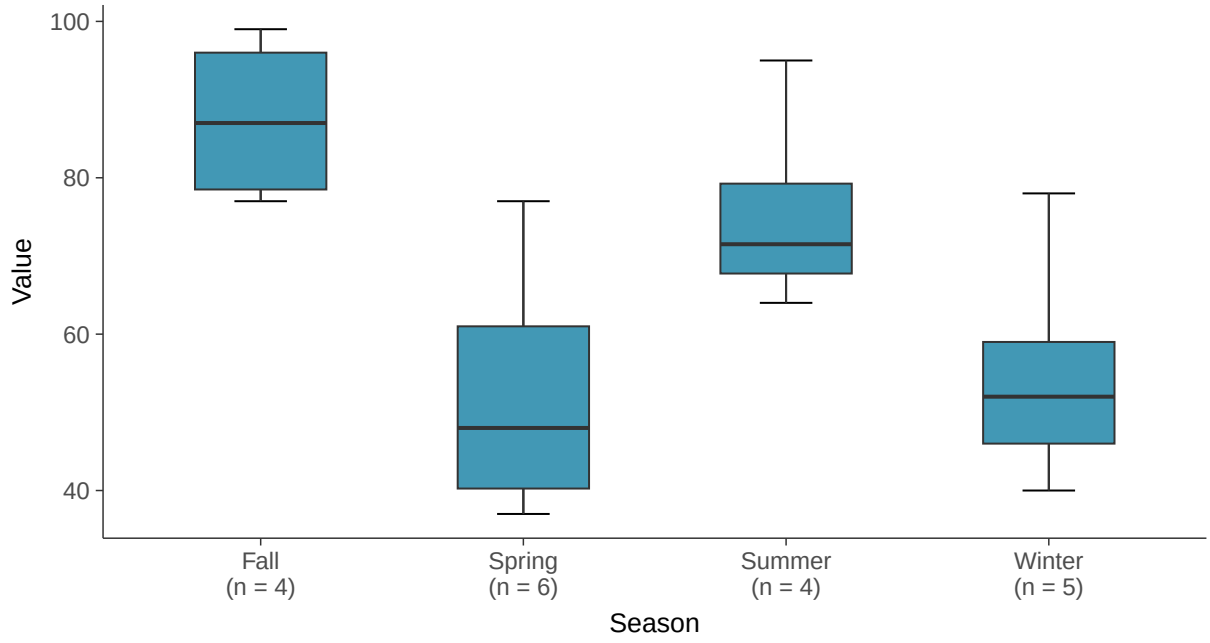
Boxplot

Calcium, MW-12 (mg/L)



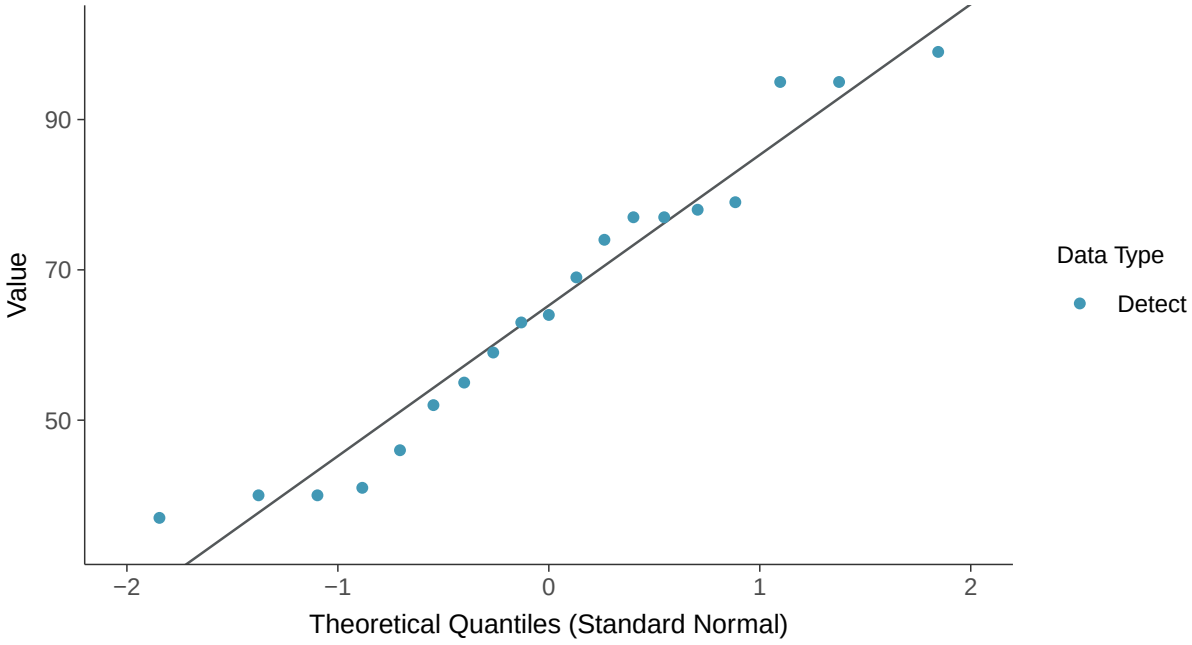
Boxplot by Season

Calcium, MW-12 (mg/L)



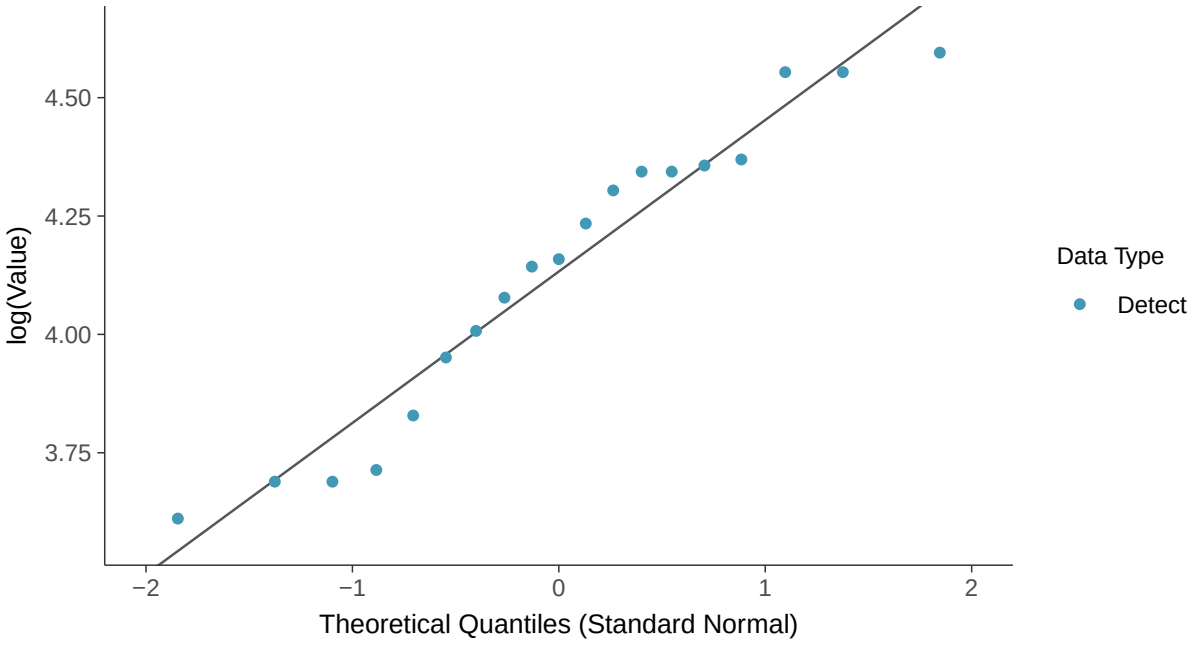
Normal Q-Q plot

Calcium, MW-12 (mg/L)



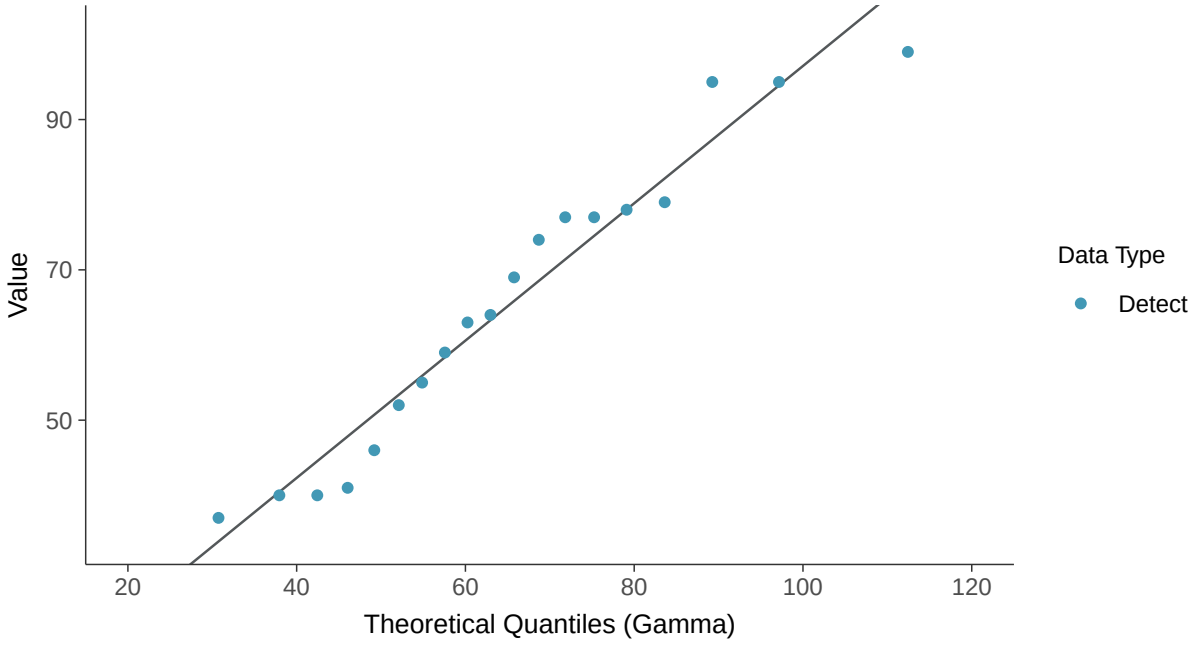
Lognormal Q-Q plot

Calcium, MW-12 (mg/L)



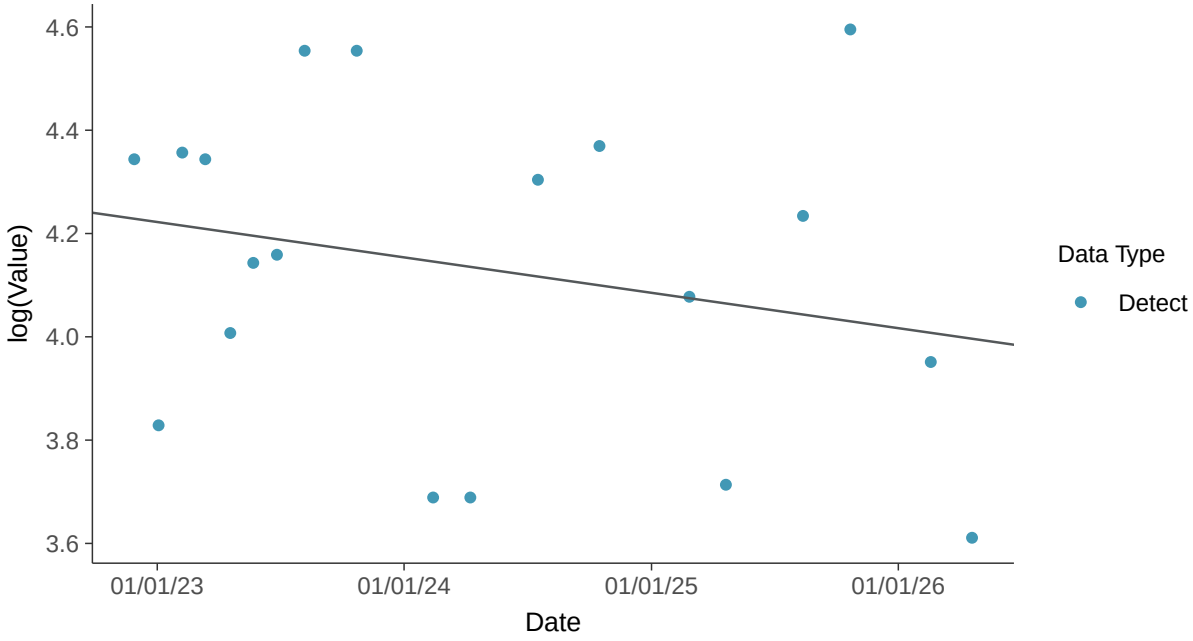
Gamma Q-Q plot

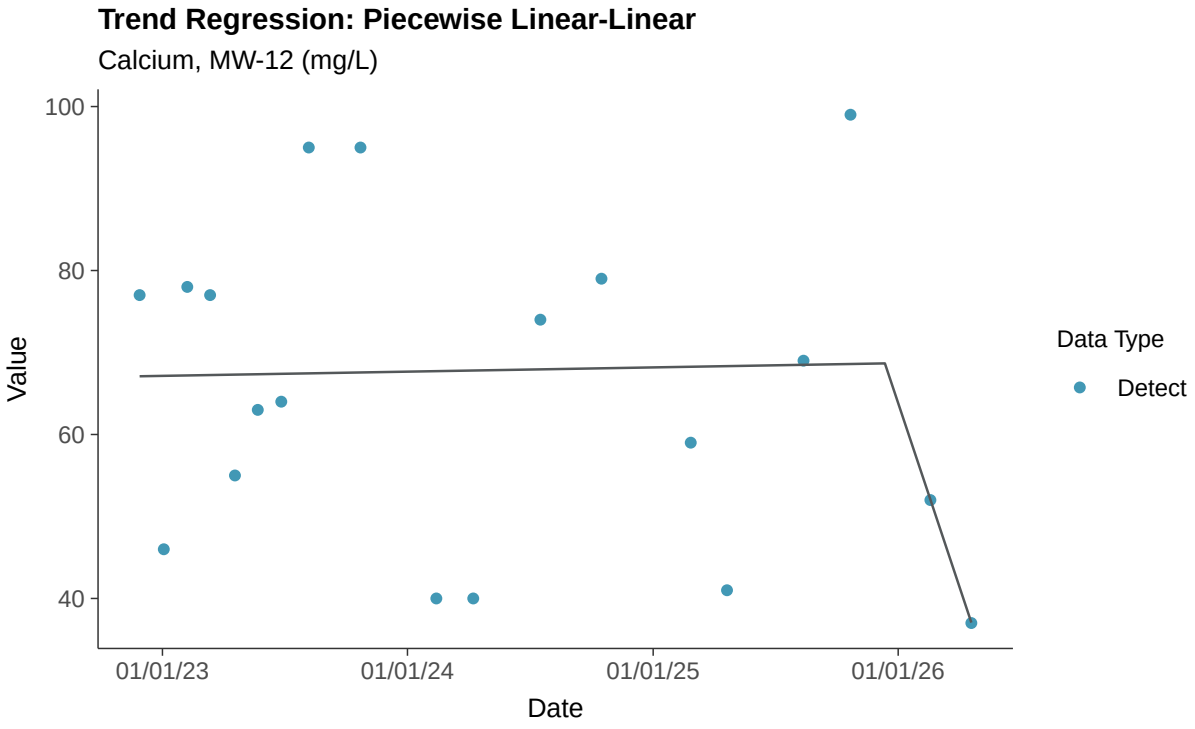
Calcium, MW-12 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-12 (mg/L)



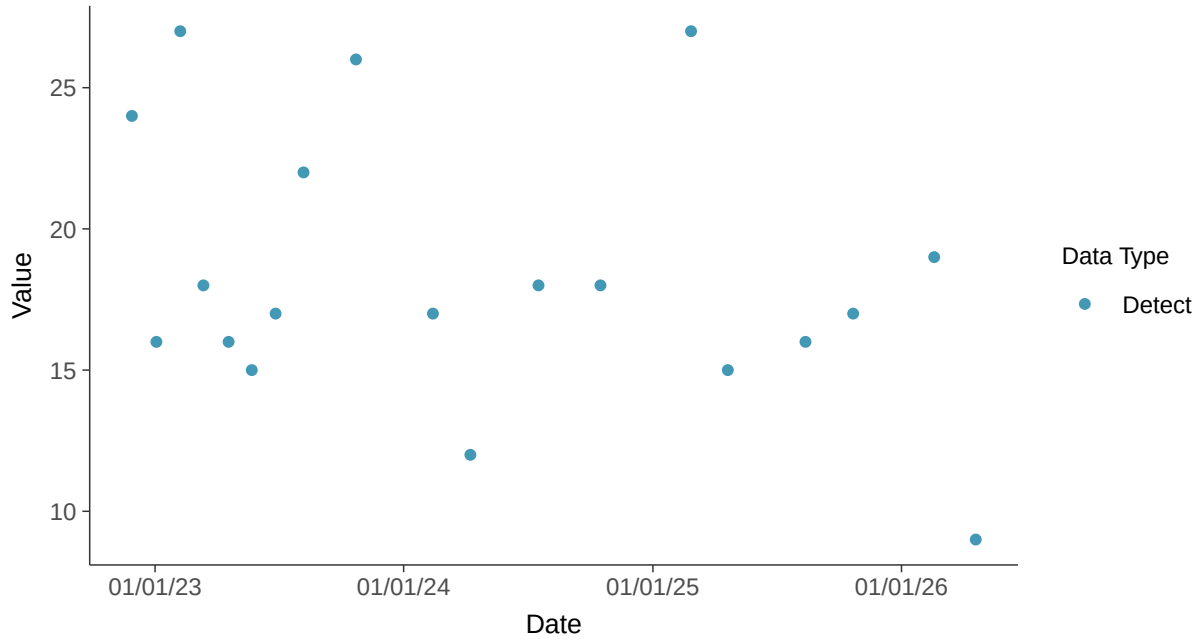

Trend Regression: Piecewise Linear-Linear
Calcium, MW-12 (mg/L)
Value
100
80
60
40
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Chloride (as Cl), MW-12

ID: 22_2_3_108

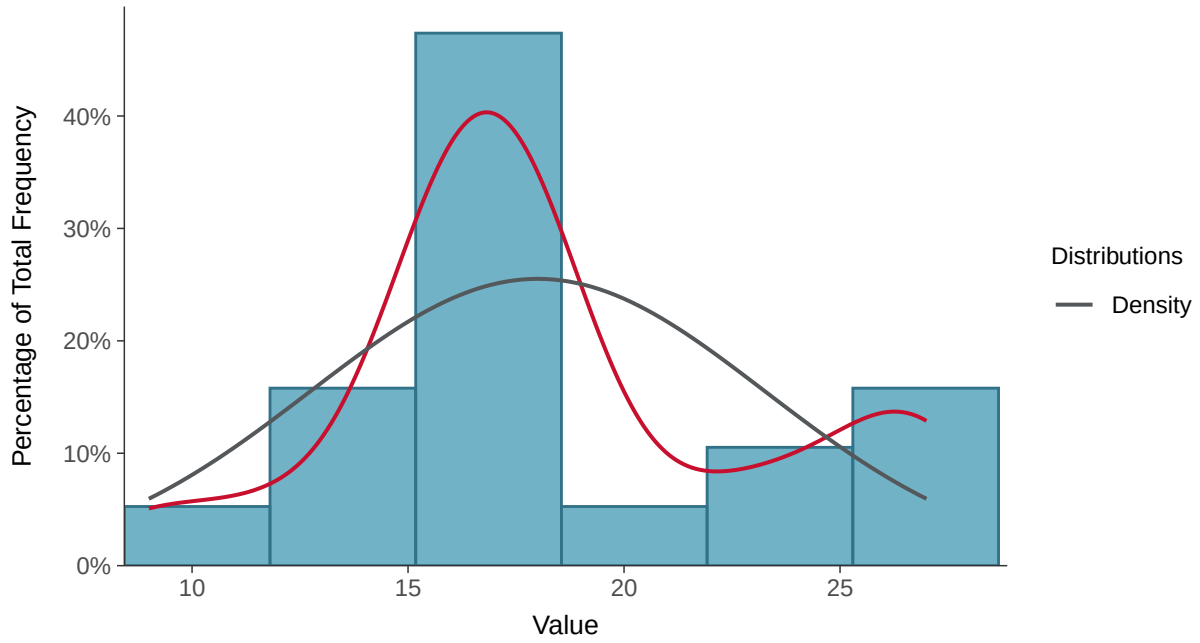
Scatter Plot

Chloride (as Cl), MW-12 (mg/L)



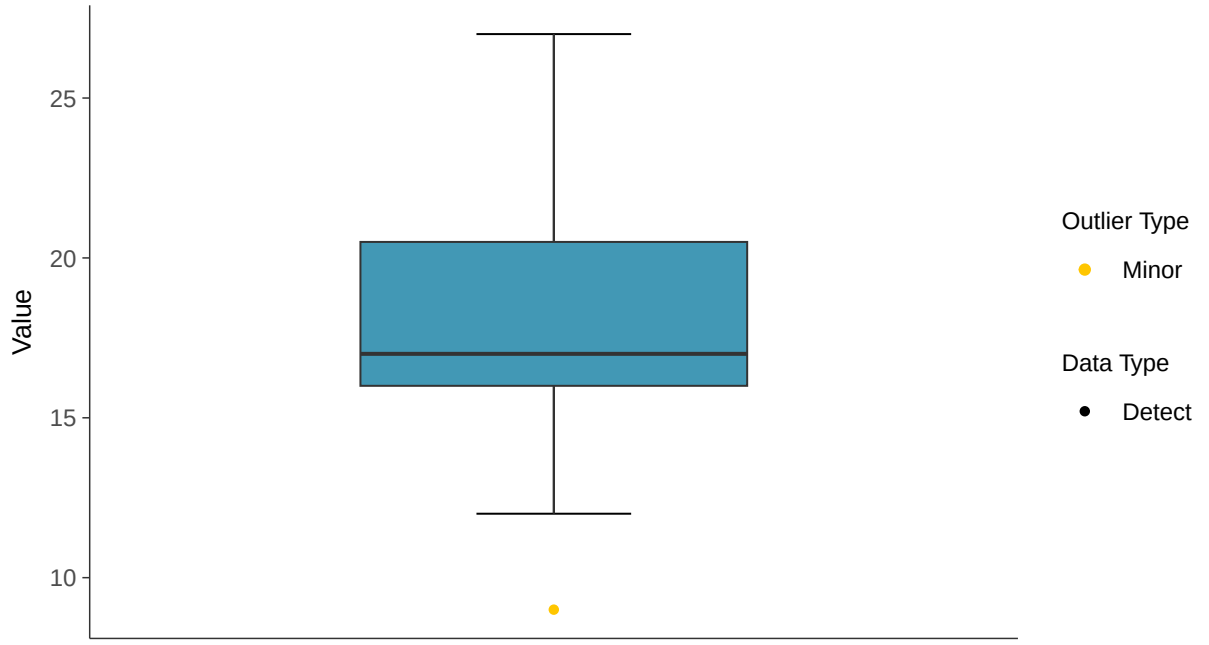
Histogram

Chloride (as Cl), MW-12 (mg/L)



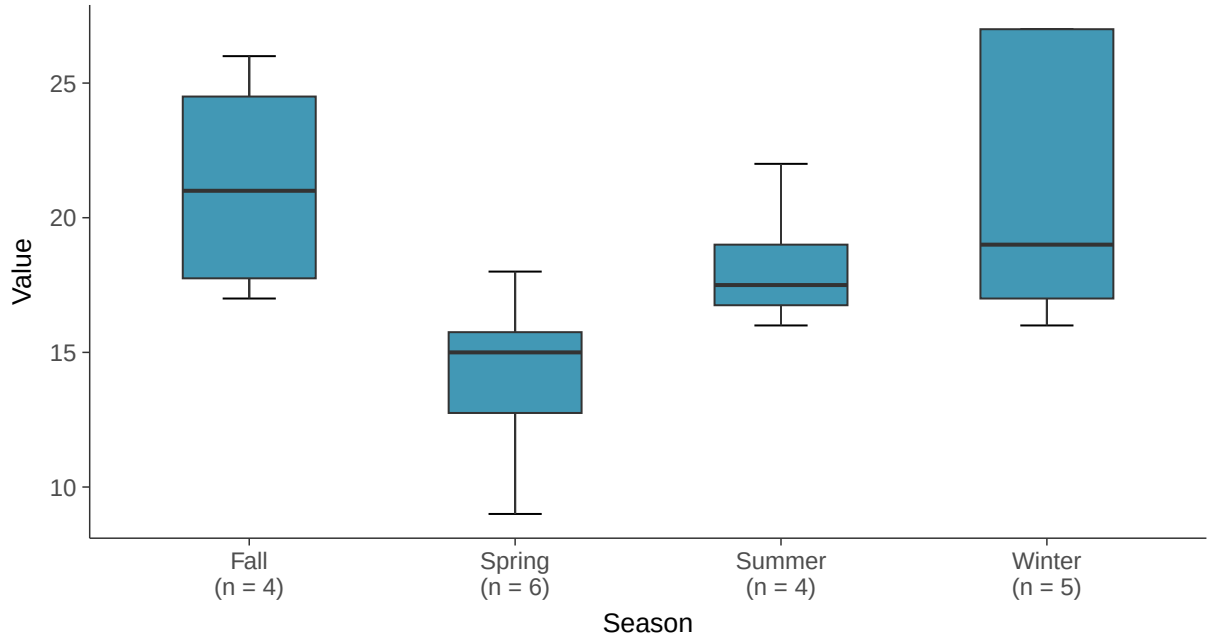
Boxplot

Chloride (as Cl), MW-12 (mg/L)



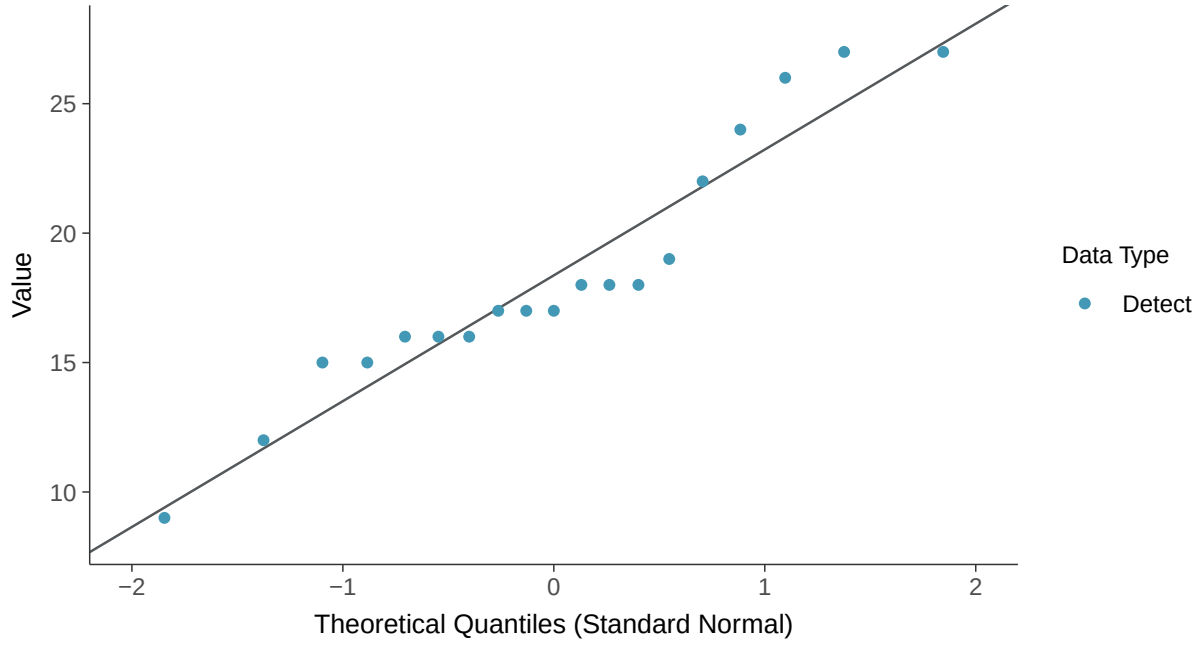
Boxplot by Season

Chloride (as Cl), MW-12 (mg/L)



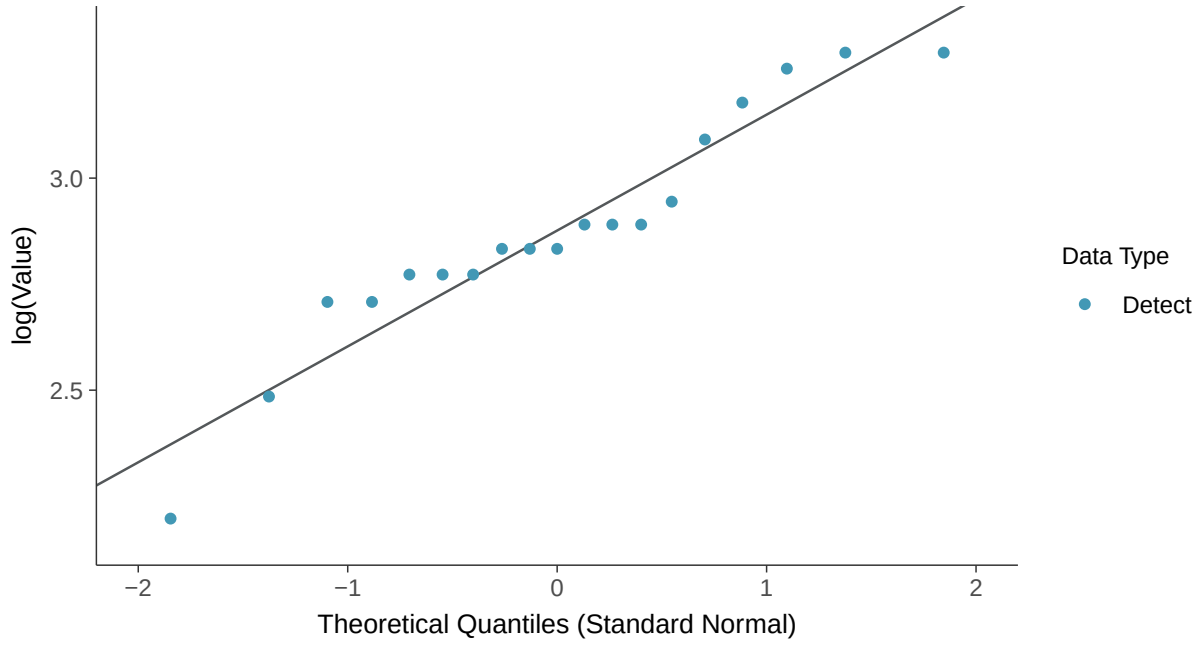
Normal Q-Q plot

Chloride (as Cl), MW-12 (mg/L)



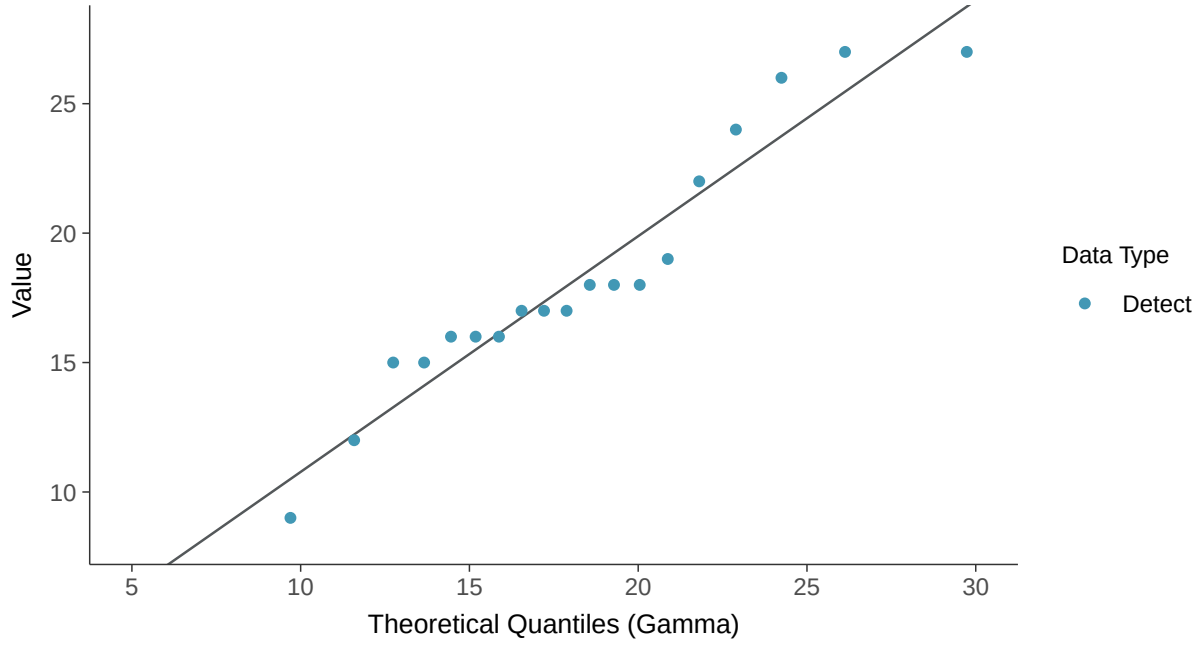
Lognormal Q-Q plot

Chloride (as Cl), MW-12 (mg/L)



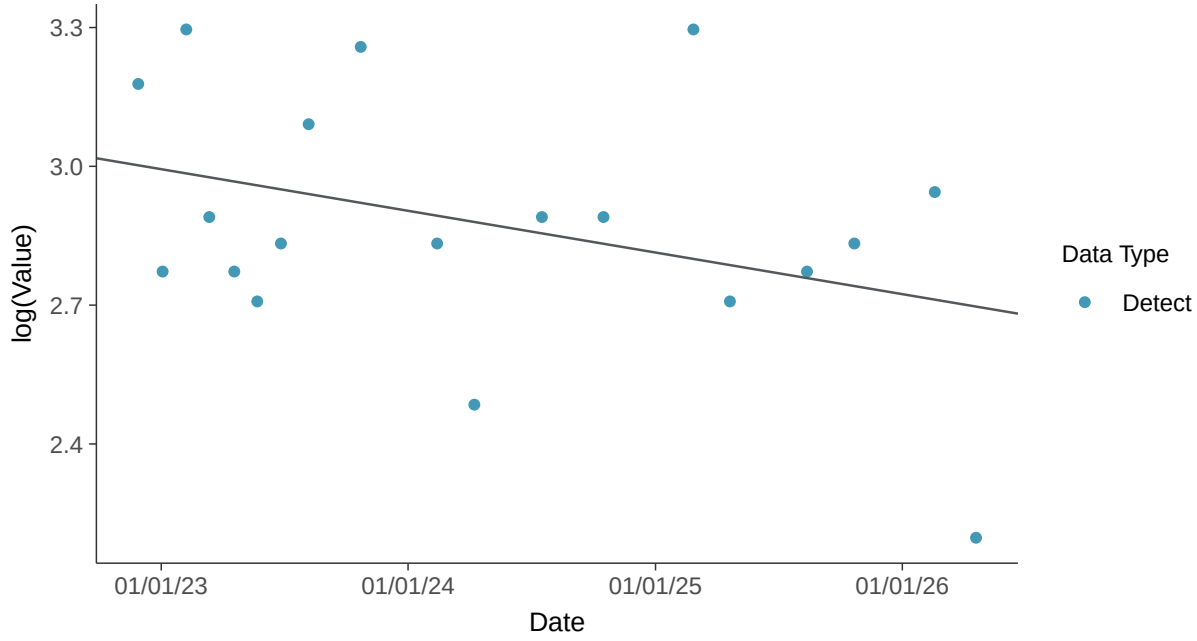
Gamma Q-Q plot

Chloride (as Cl), MW-12 (mg/L)



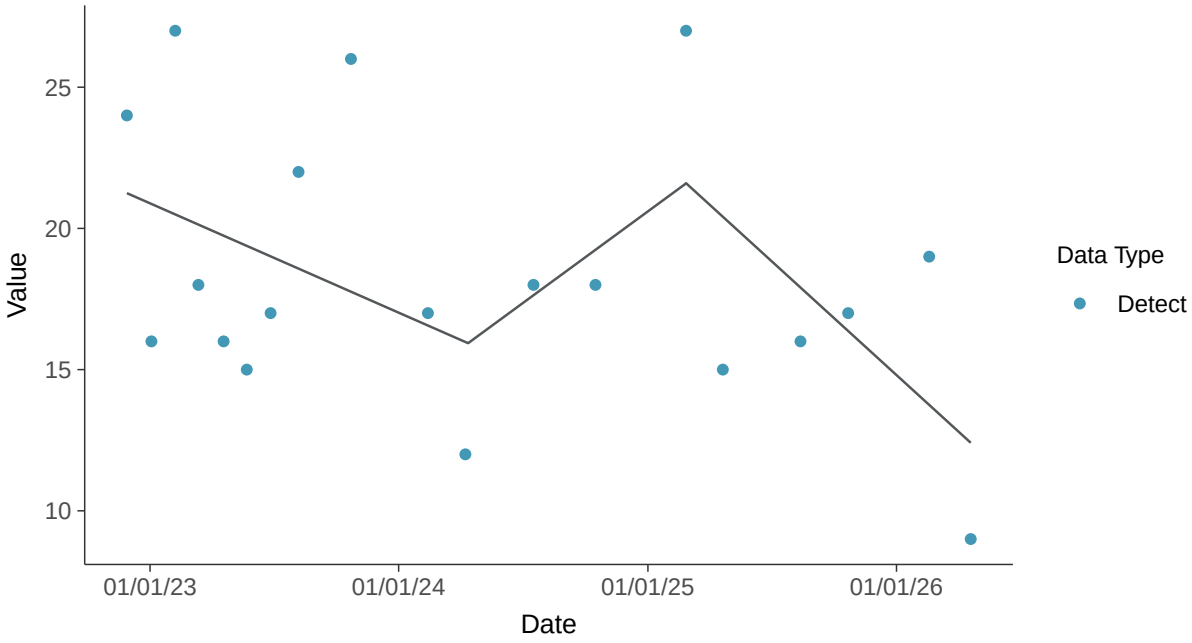
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-12 (mg/L)



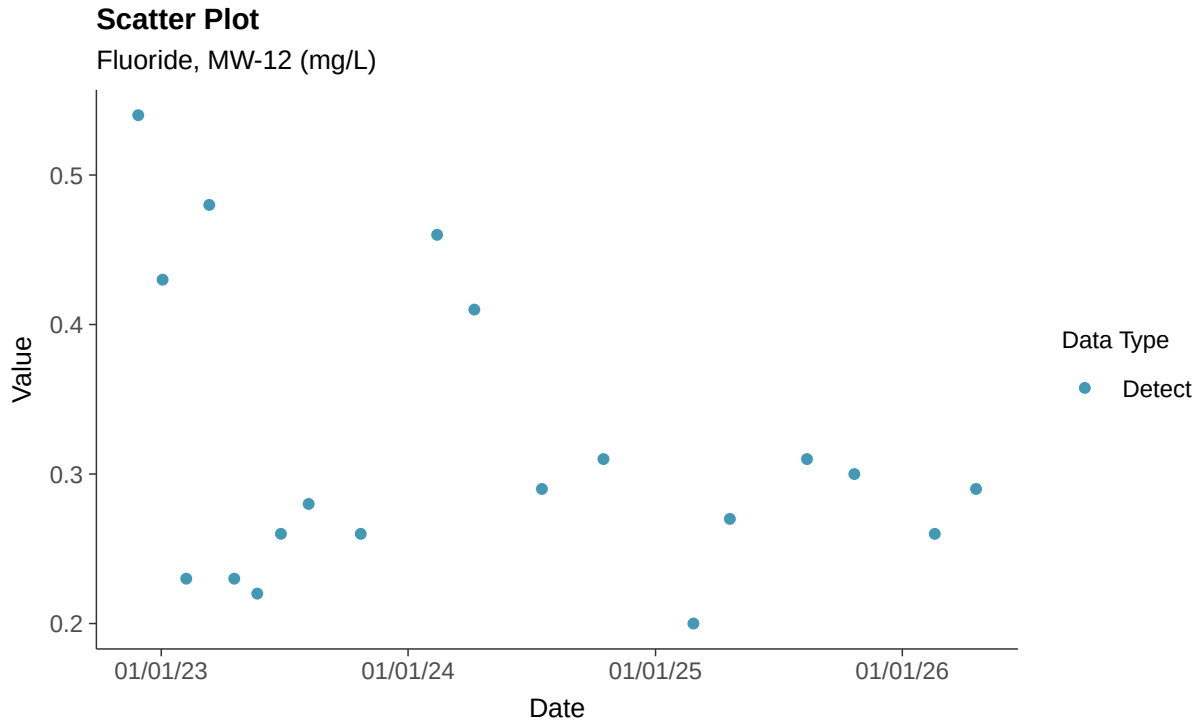
Trend Regression: Piecewise Linear-Linear-Linear

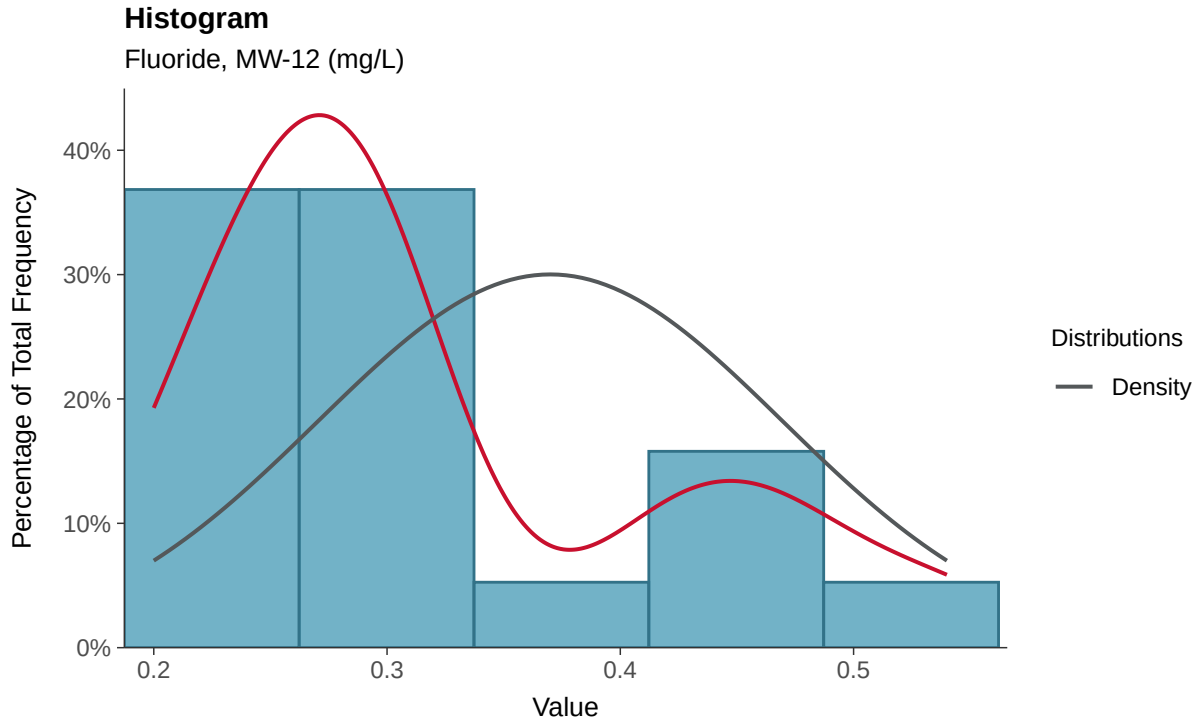
Chloride (as Cl), MW-12 (mg/L)



Appendix III: Fluoride, MW-12

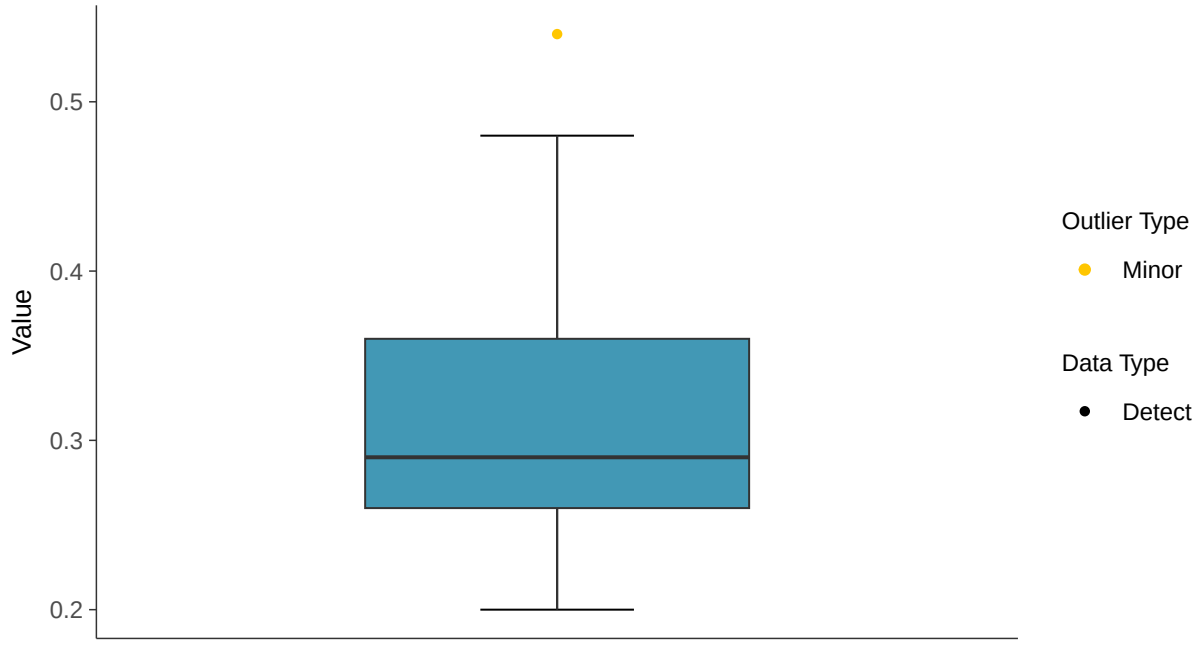
ID: 22_2_3_112





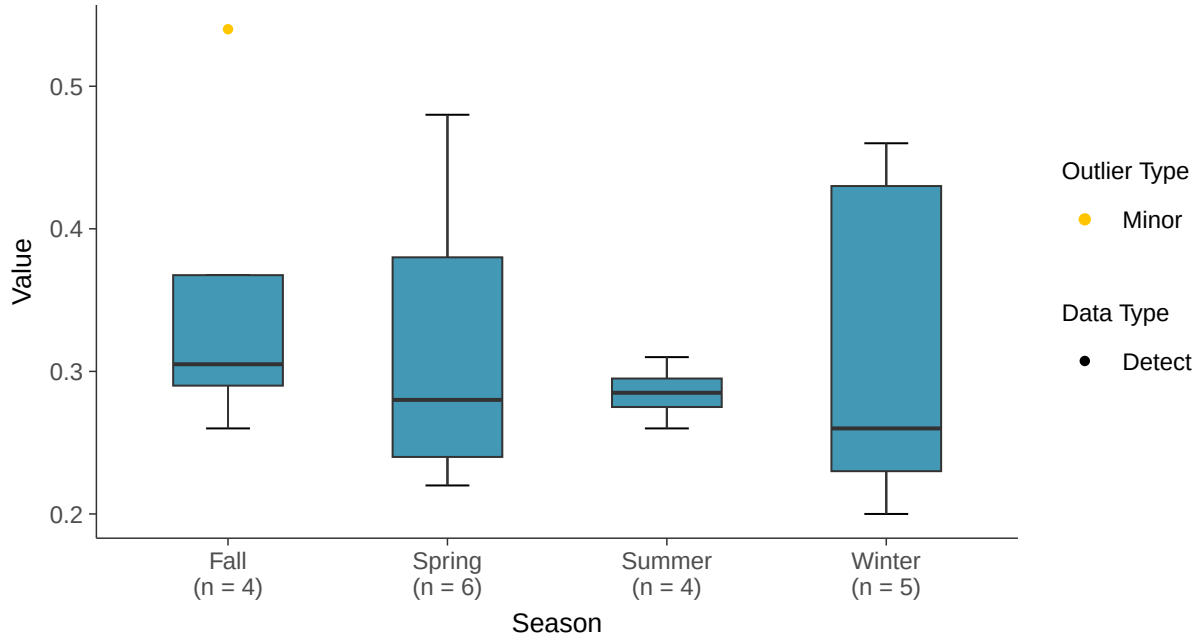
Boxplot

Fluoride, MW-12 (mg/L)



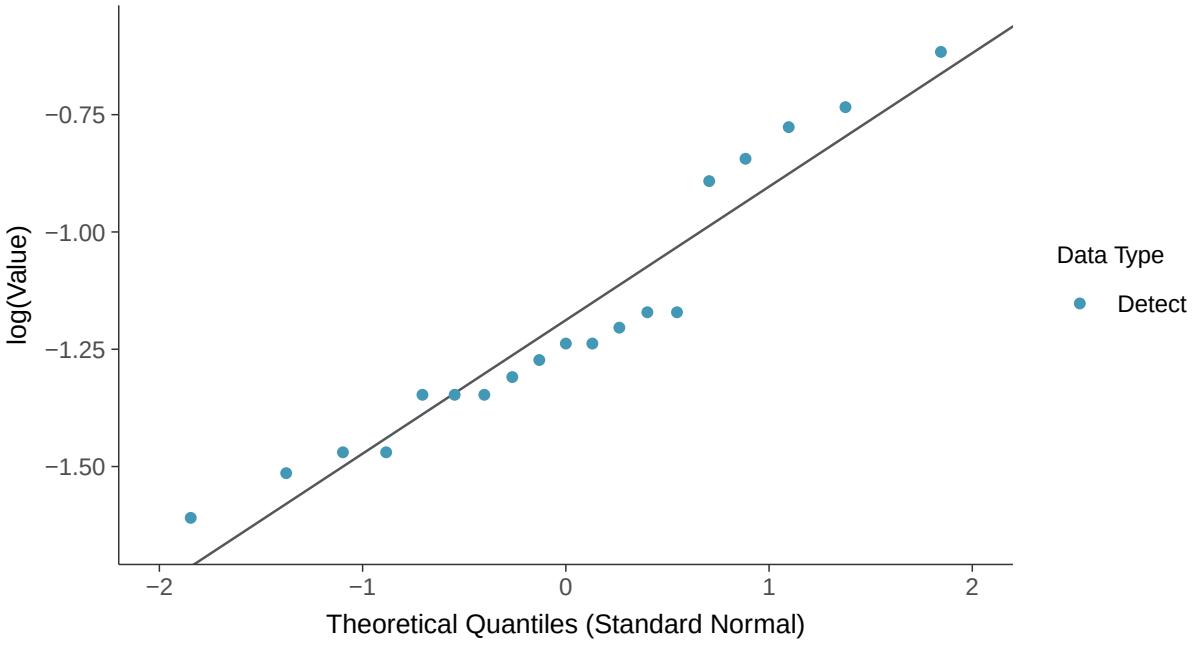
Boxplot by Season

Fluoride, MW-12 (mg/L)



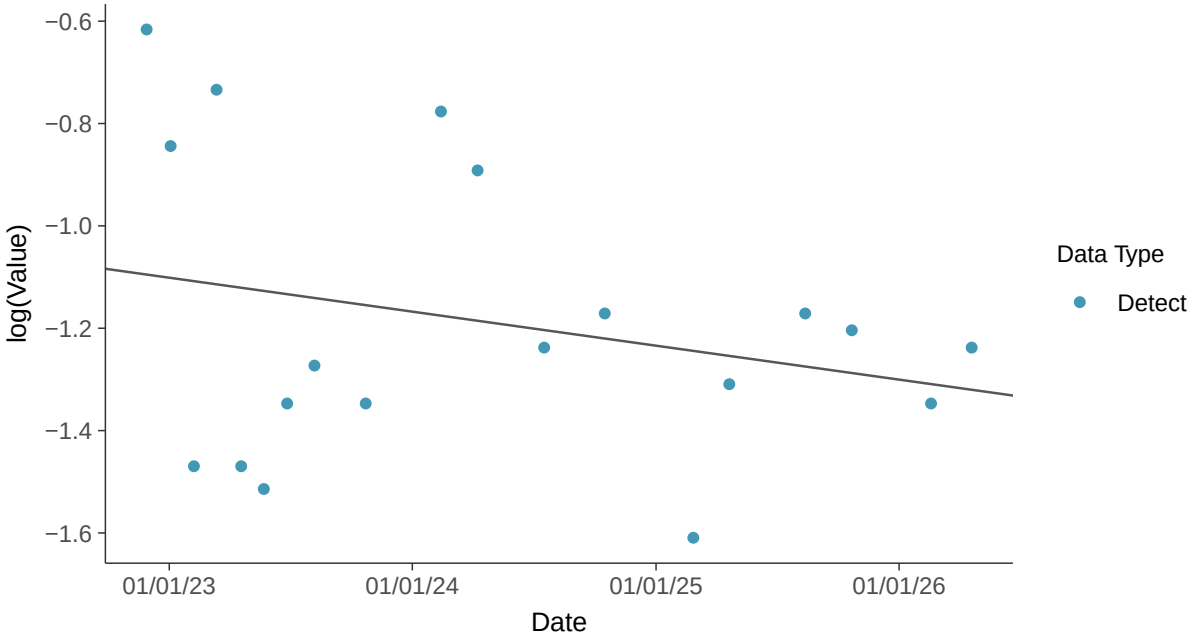
Lognormal Q-Q plot

Fluoride, MW-12 (mg/L)



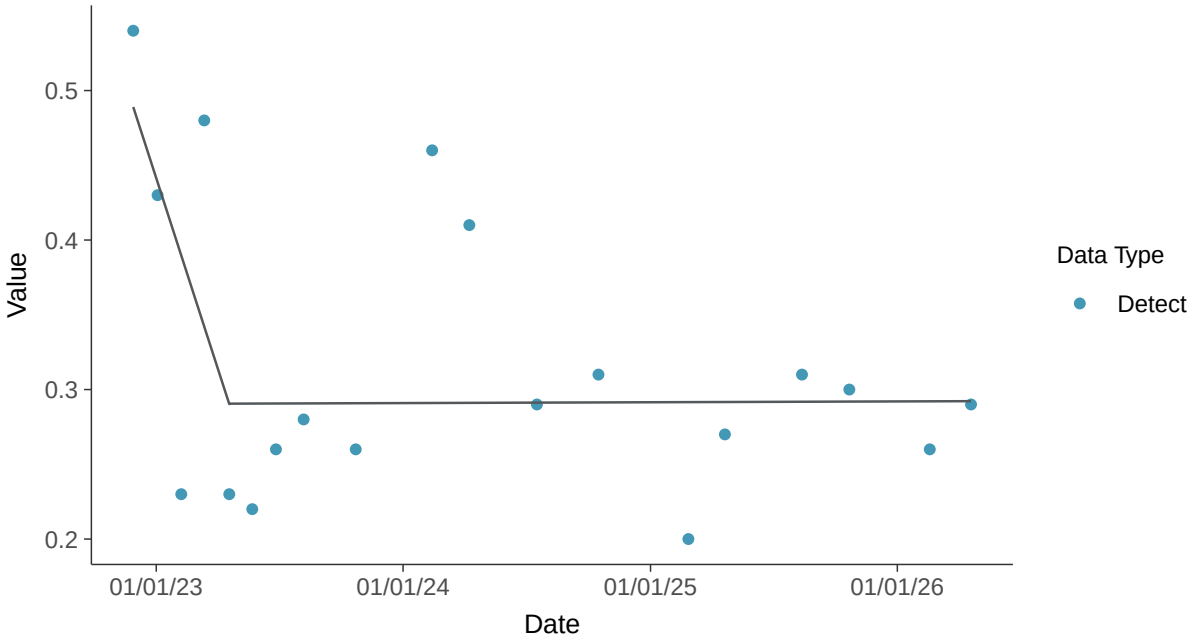
Trend Regression: Lognormal MLE

Fluoride, MW-12 (mg/L)



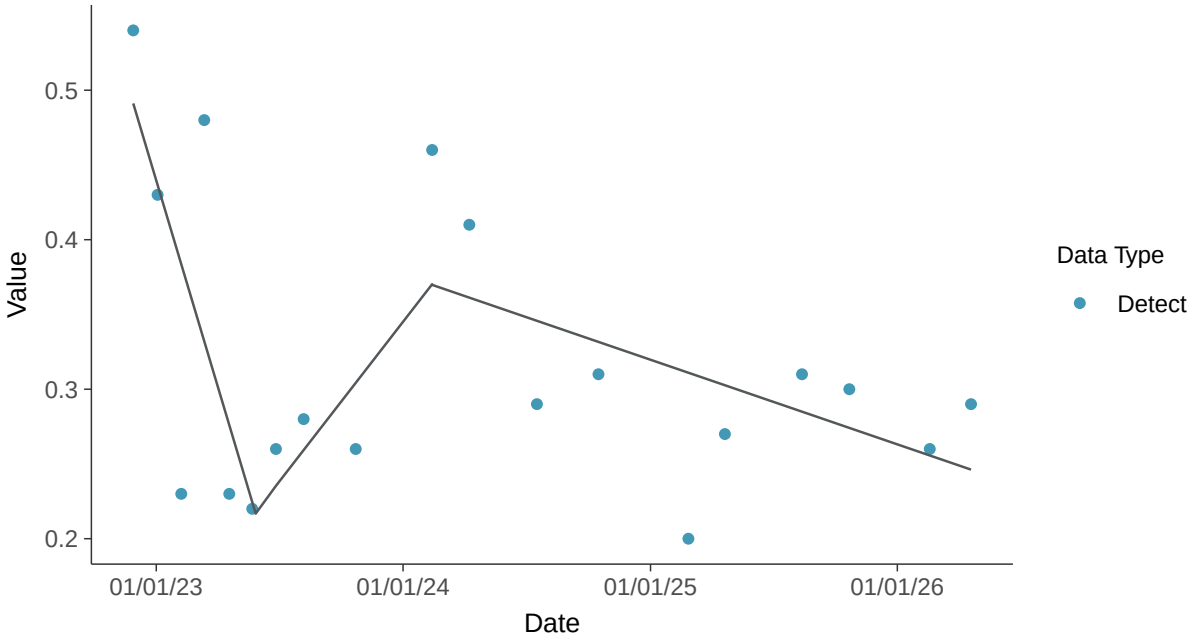
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-12 (mg/L)

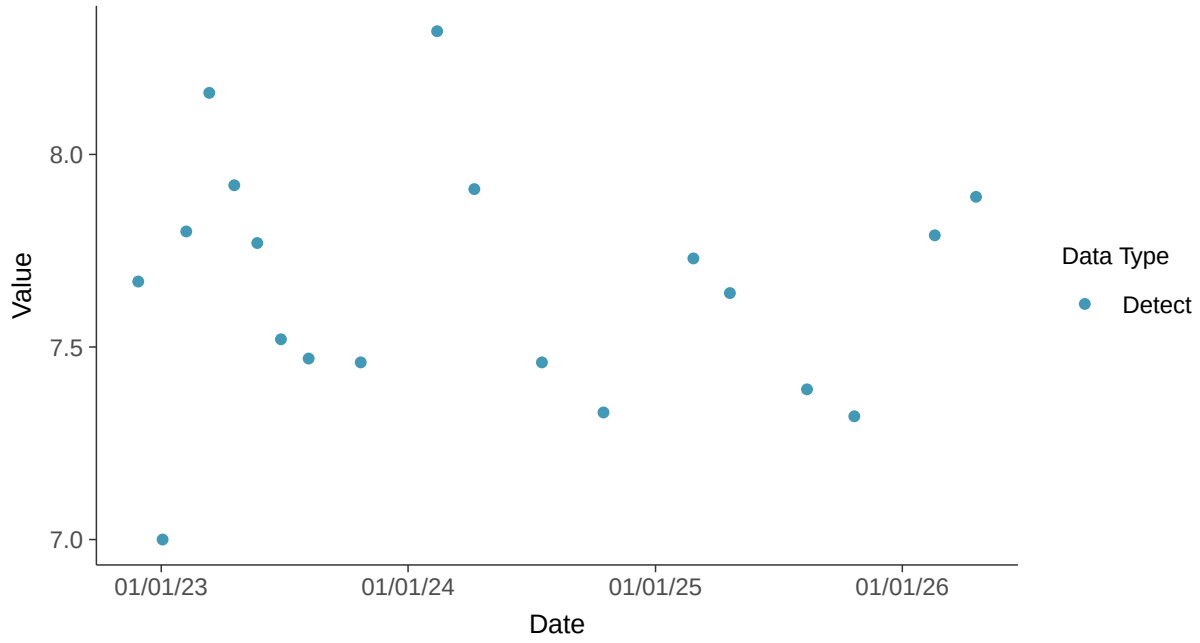


Appendix III: pH (field), MW-12

ID: 22_2_3_120

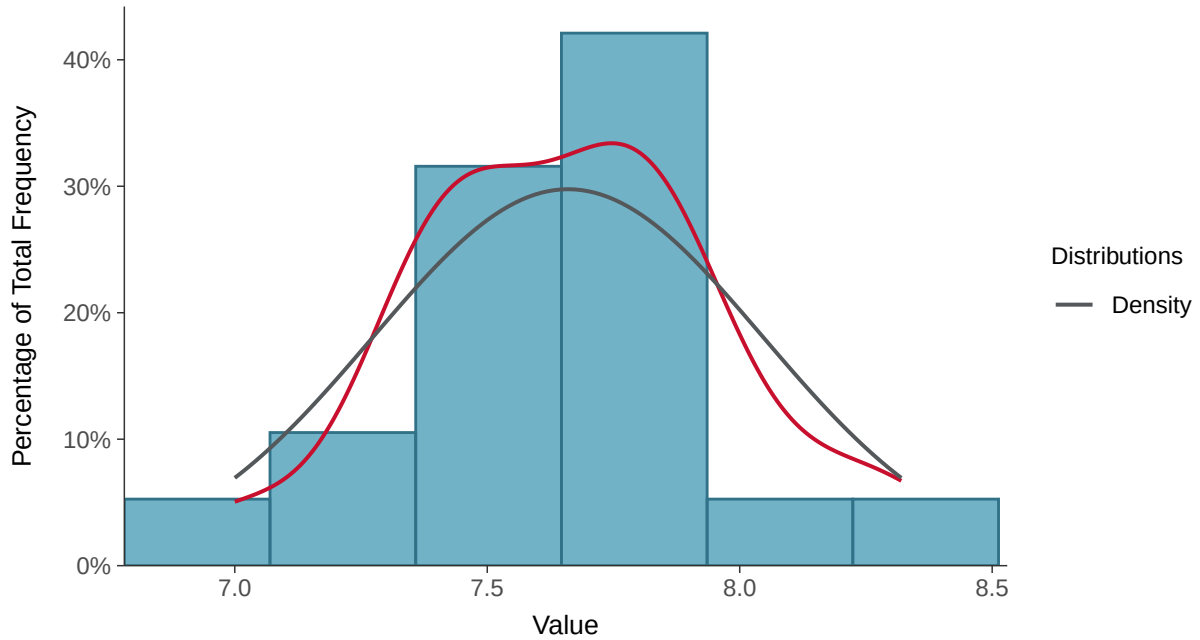
Scatter Plot

pH (field), MW-12 (su)



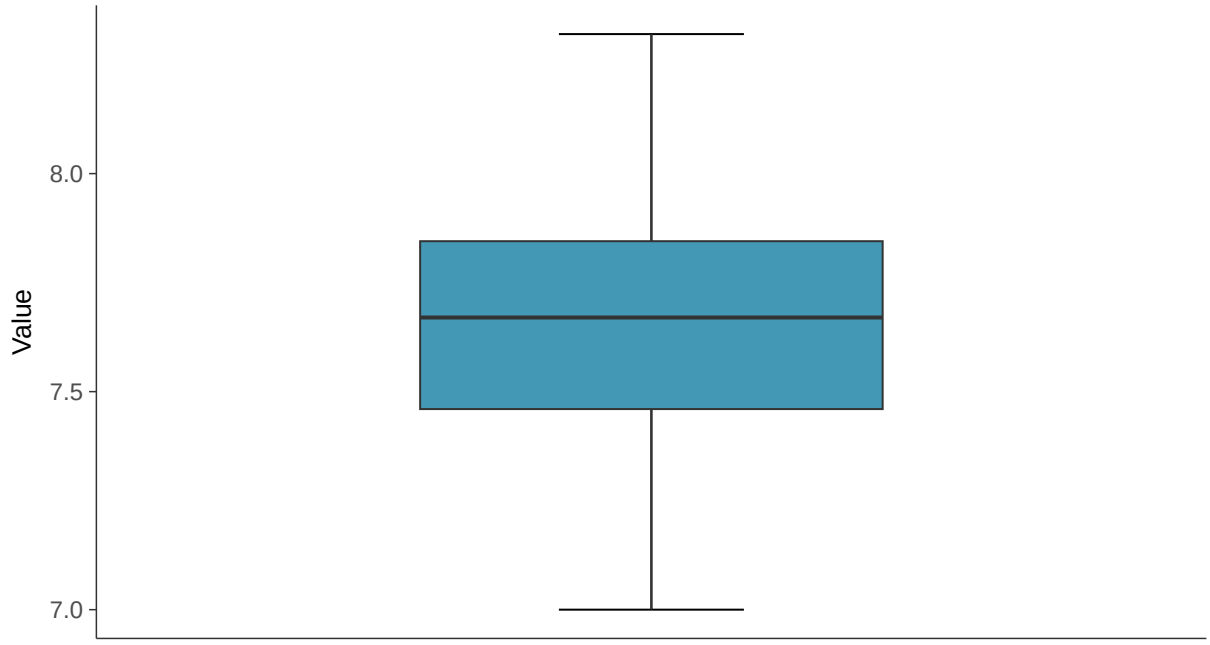
Histogram

pH (field), MW-12 (su)



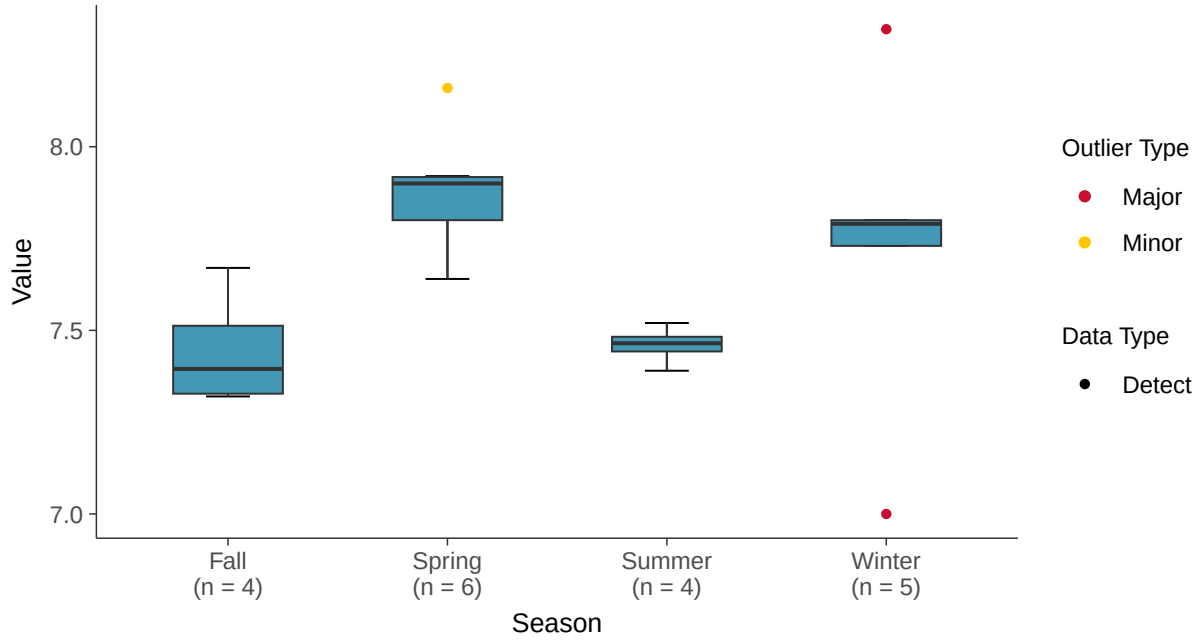
Boxplot

pH (field), MW-12 (su)



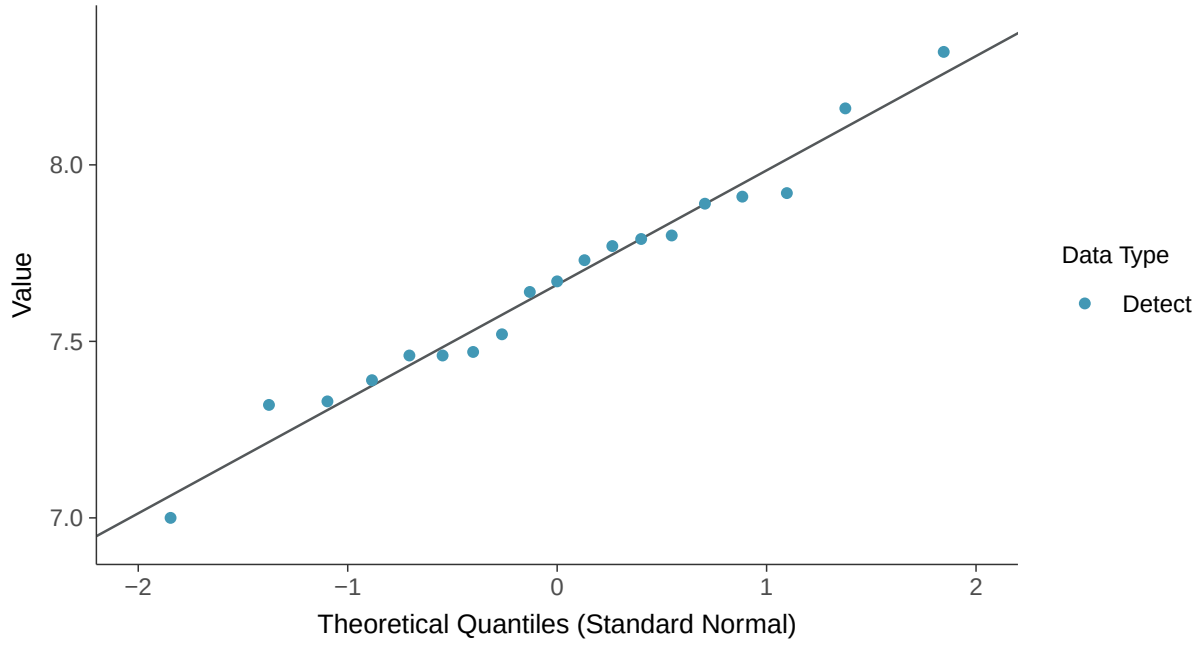
Boxplot by Season

pH (field), MW-12 (su)



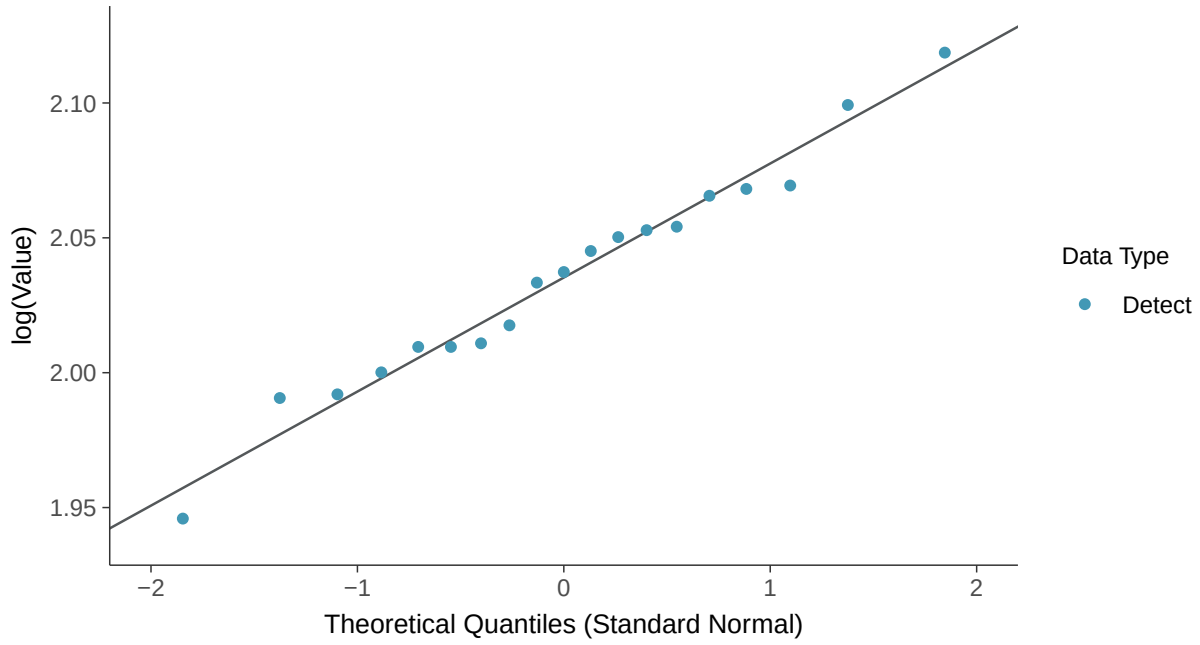
Normal Q-Q plot

pH (field), MW-12 (su)



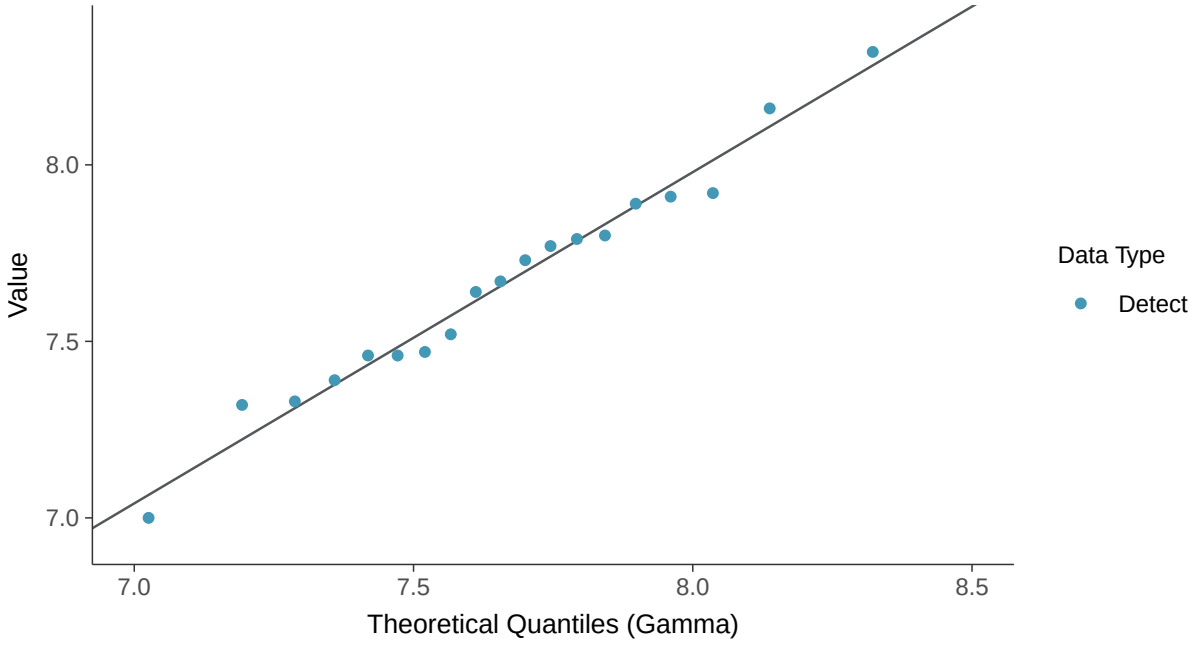
Lognormal Q-Q plot

pH (field), MW-12 (su)



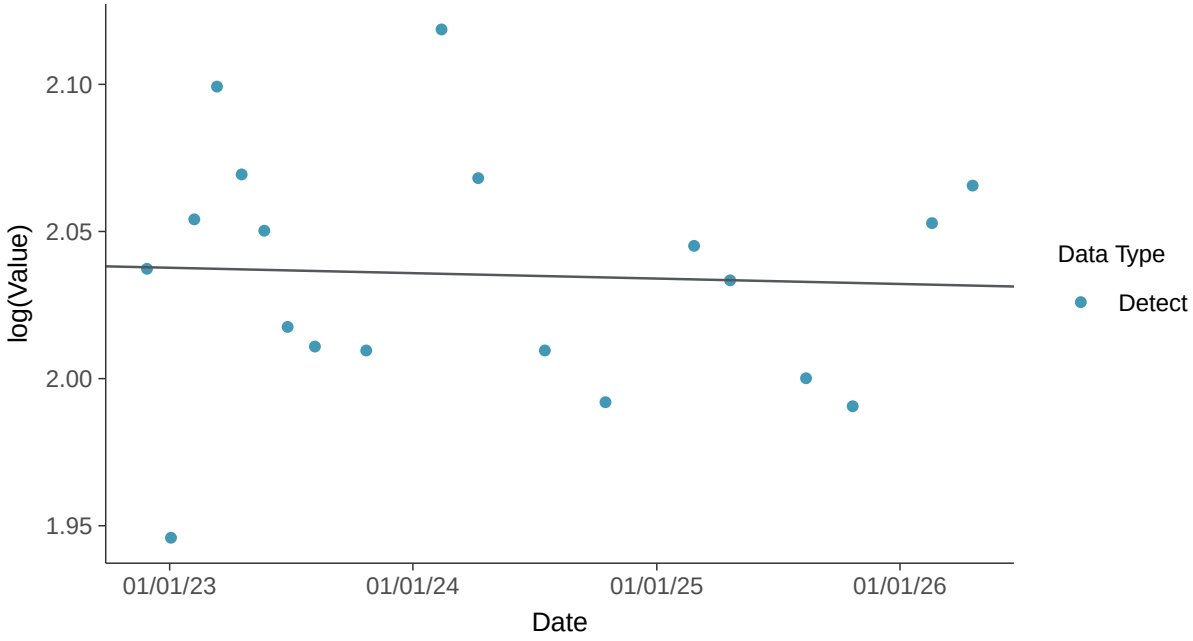
Gamma Q-Q plot

pH (field), MW-12 (su)



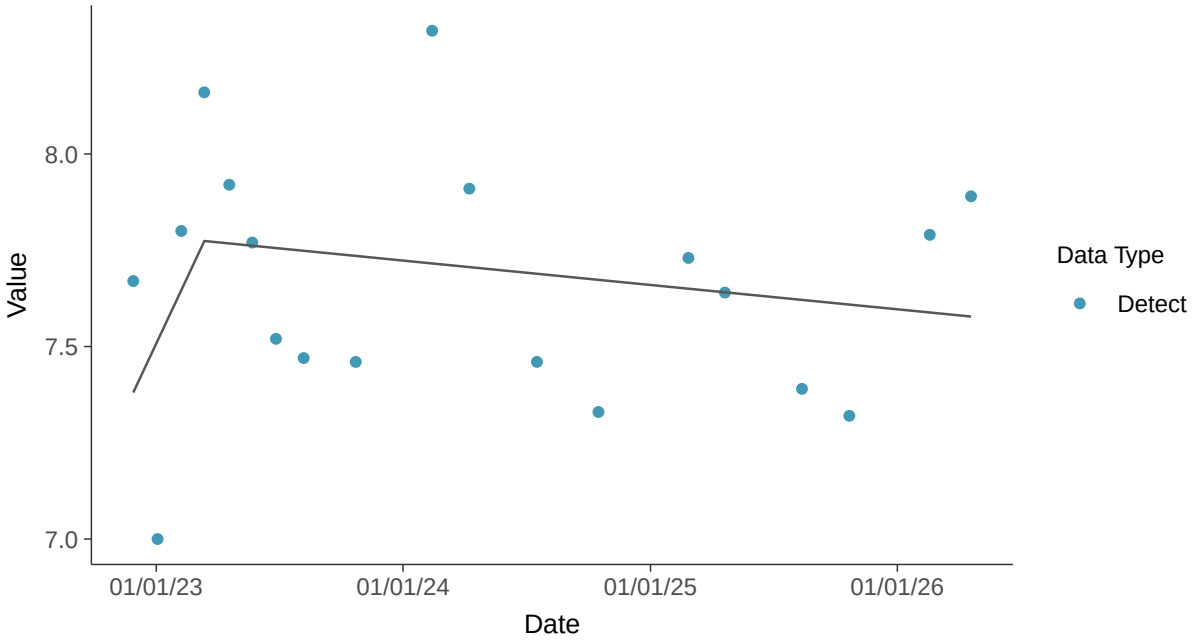
Trend Regression: Lognormal MLE

pH (field), MW-12 (su)



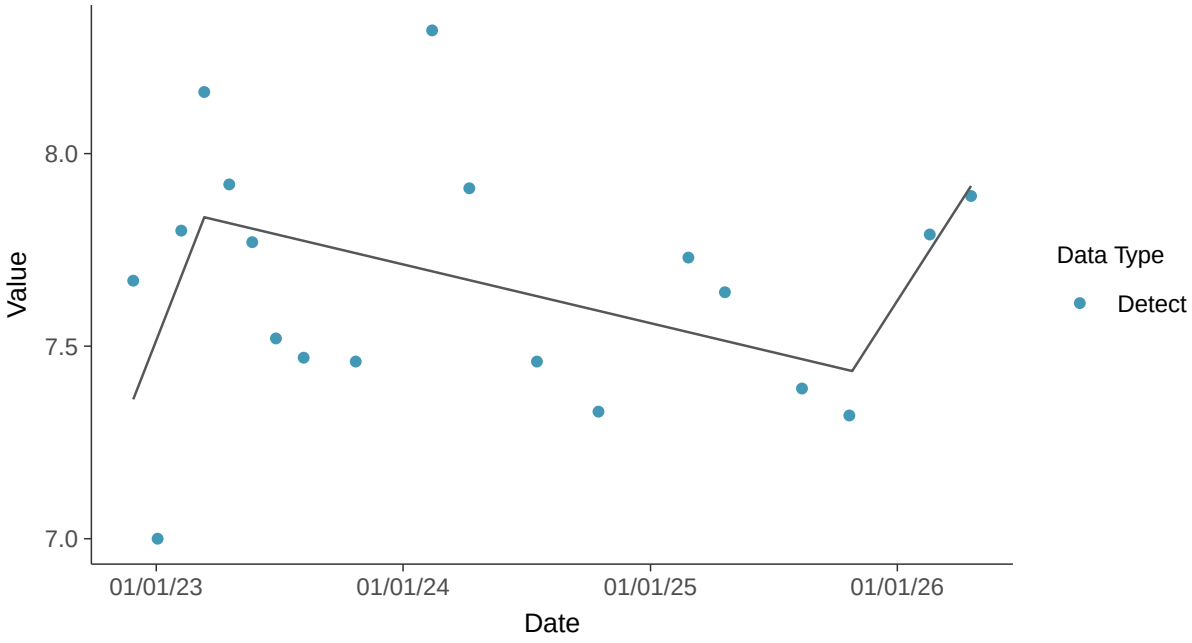
Trend Regression: Piecewise Linear-Linear

pH (field), MW-12 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-12 (su)

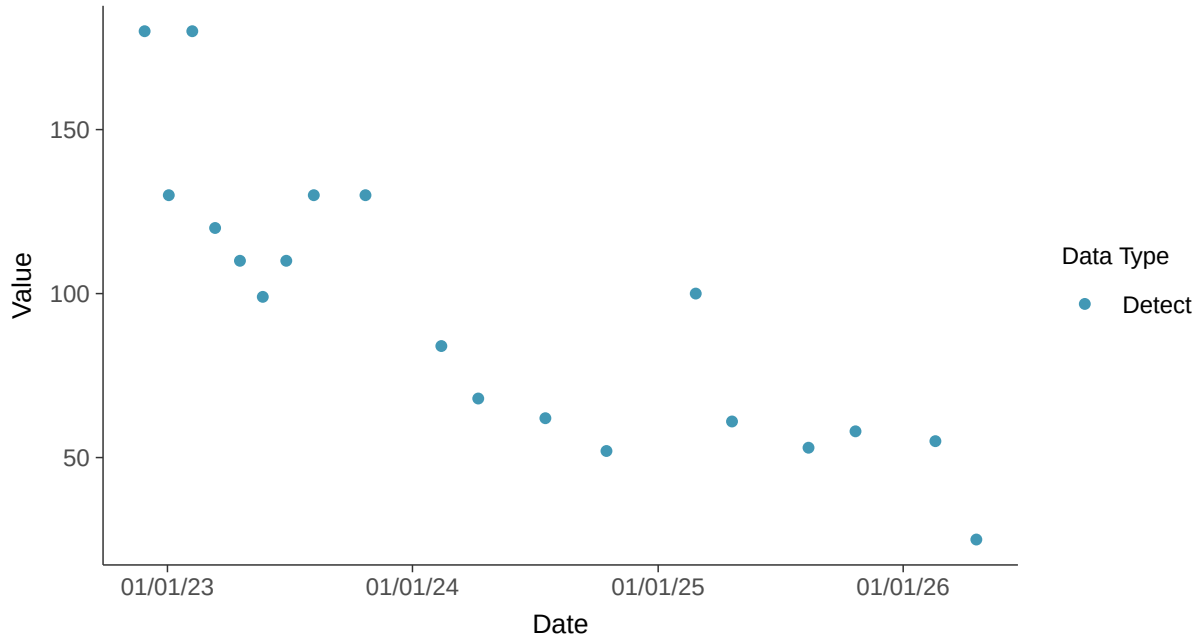


Appendix III: Sulfate (as SO4), MW-12

ID: 22_2_3_124

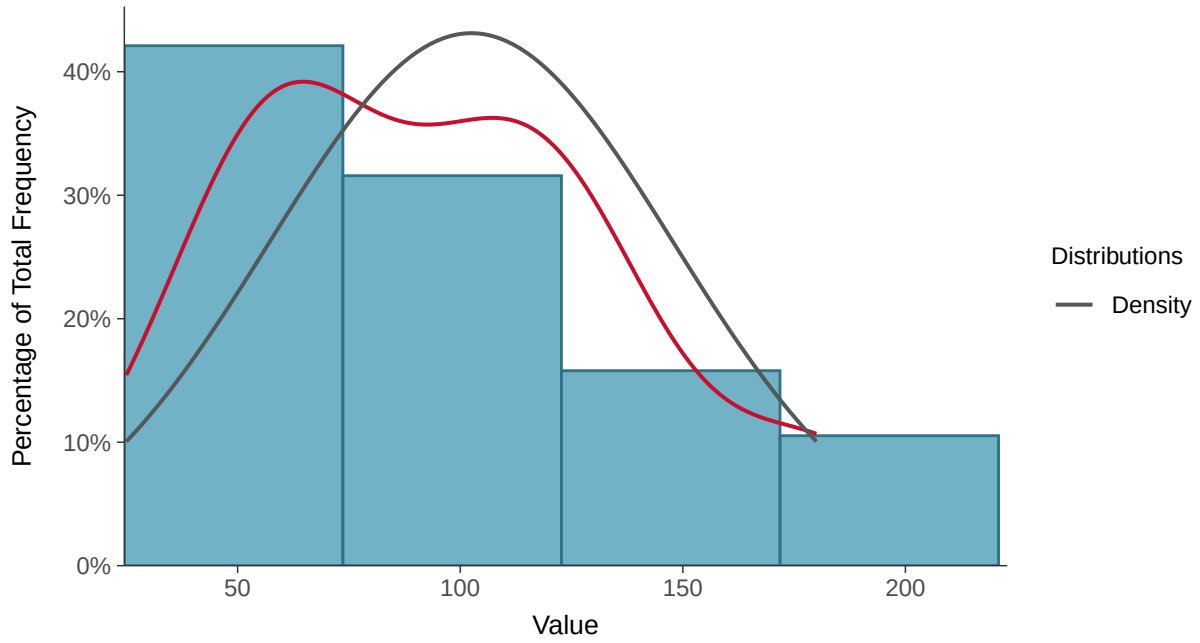
Scatter Plot

Sulfate (as SO4), MW-12 (mg/L)



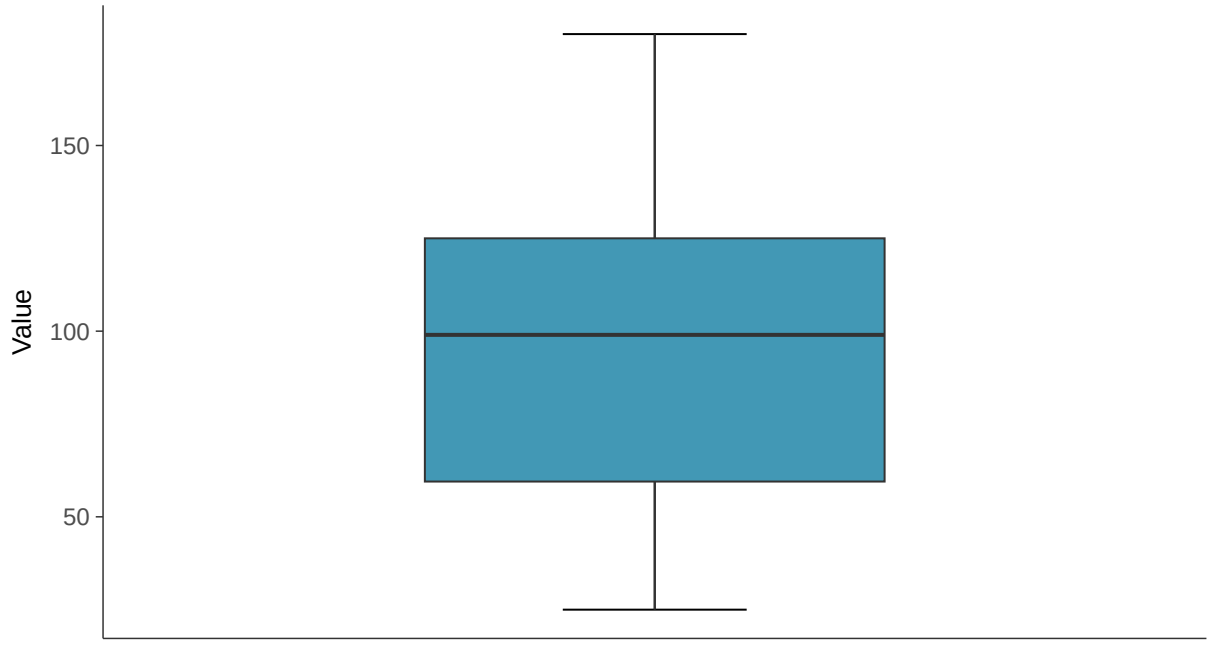
Histogram

Sulfate (as SO4), MW-12 (mg/L)



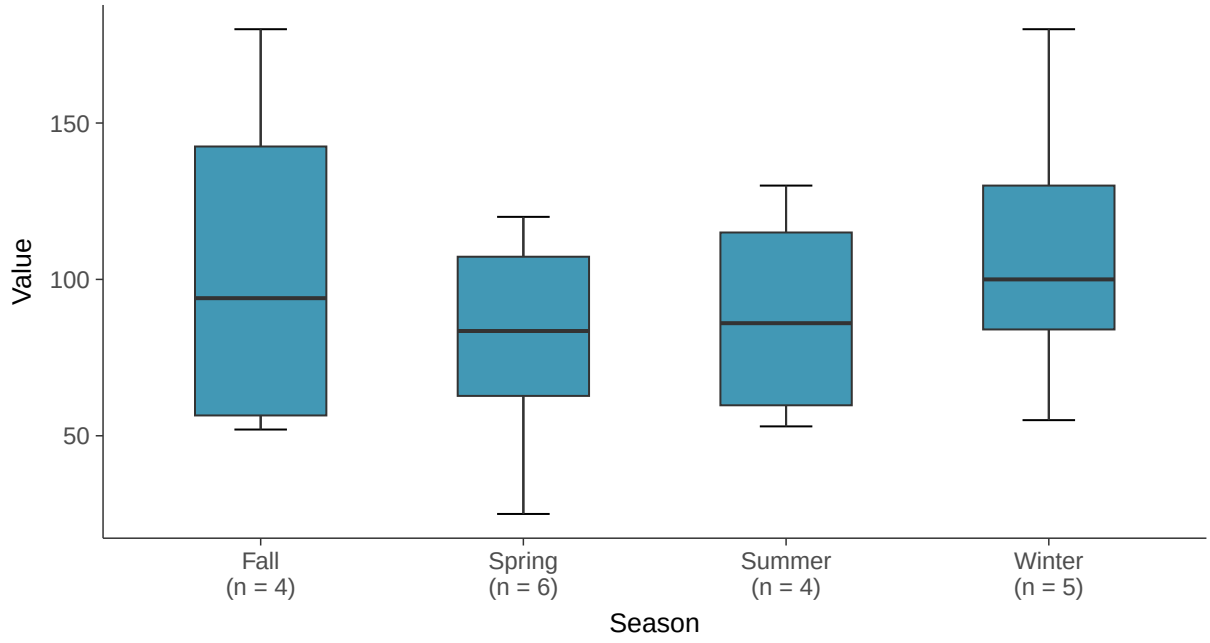
Boxplot

Sulfate (as SO4), MW-12 (mg/L)



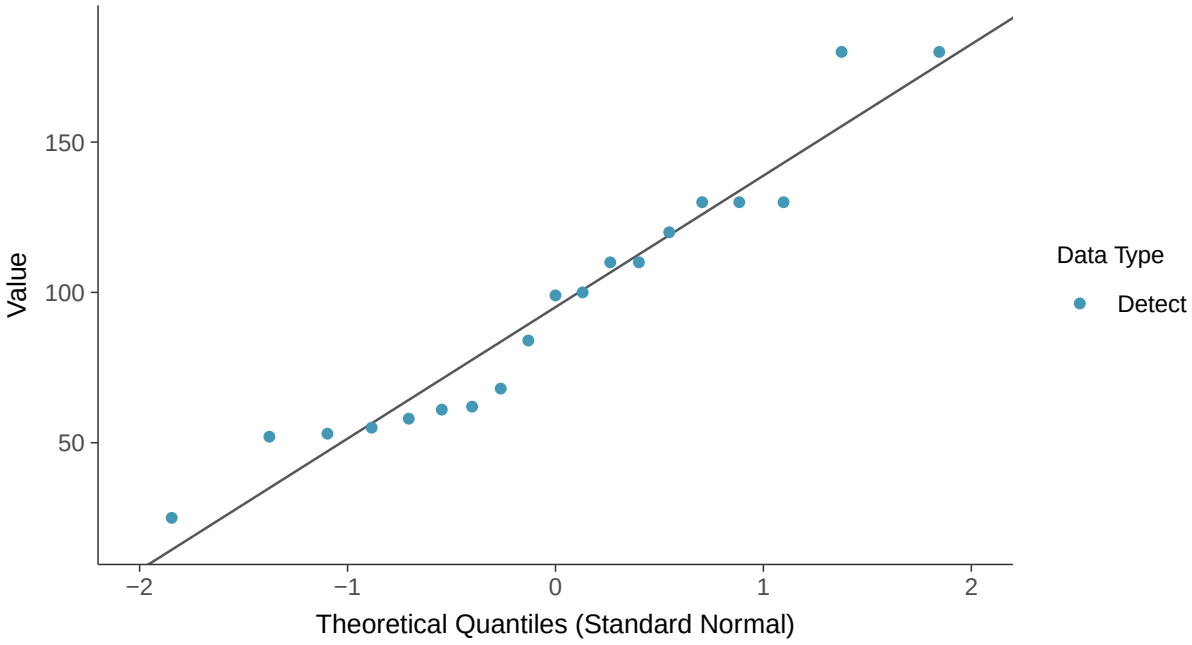
Boxplot by Season

Sulfate (as SO4), MW-12 (mg/L)



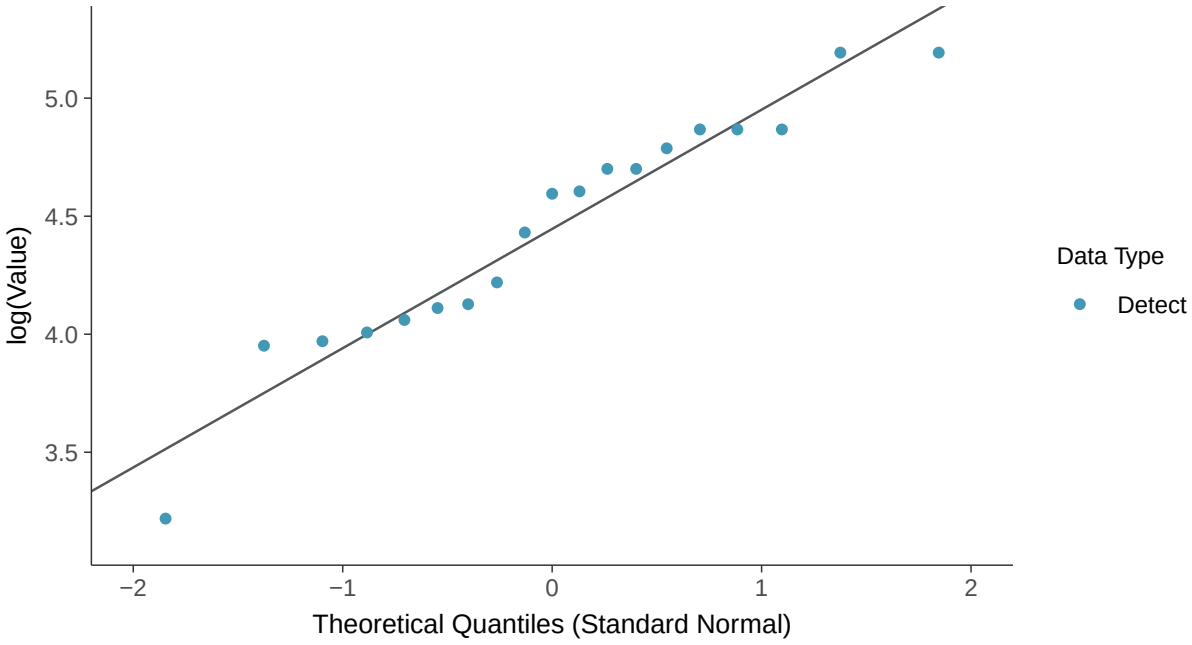
Normal Q-Q plot

Sulfate (as SO4), MW-12 (mg/L)



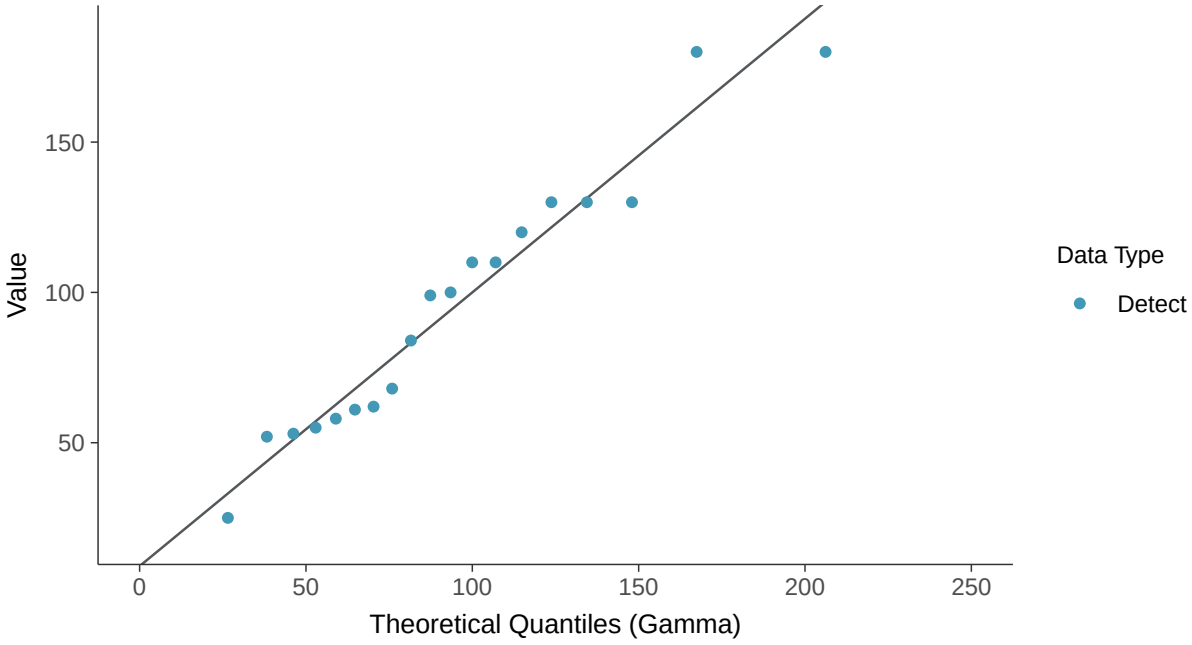
Lognormal Q-Q plot

Sulfate (as SO4), MW-12 (mg/L)



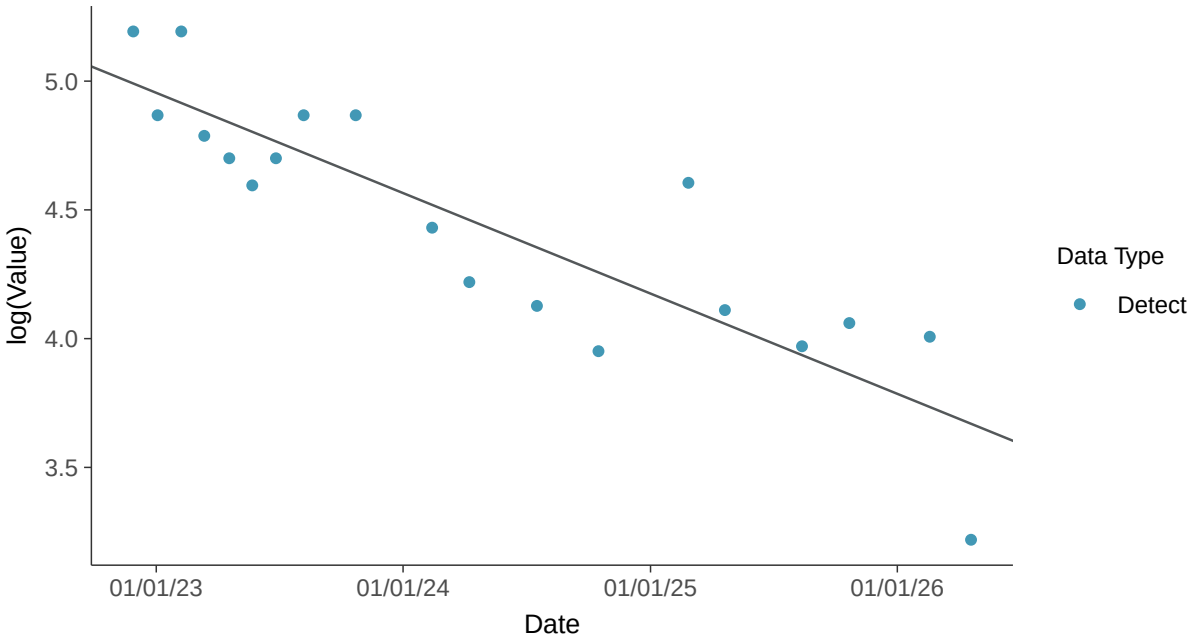
Gamma Q-Q plot

Sulfate (as SO4), MW-12 (mg/L)



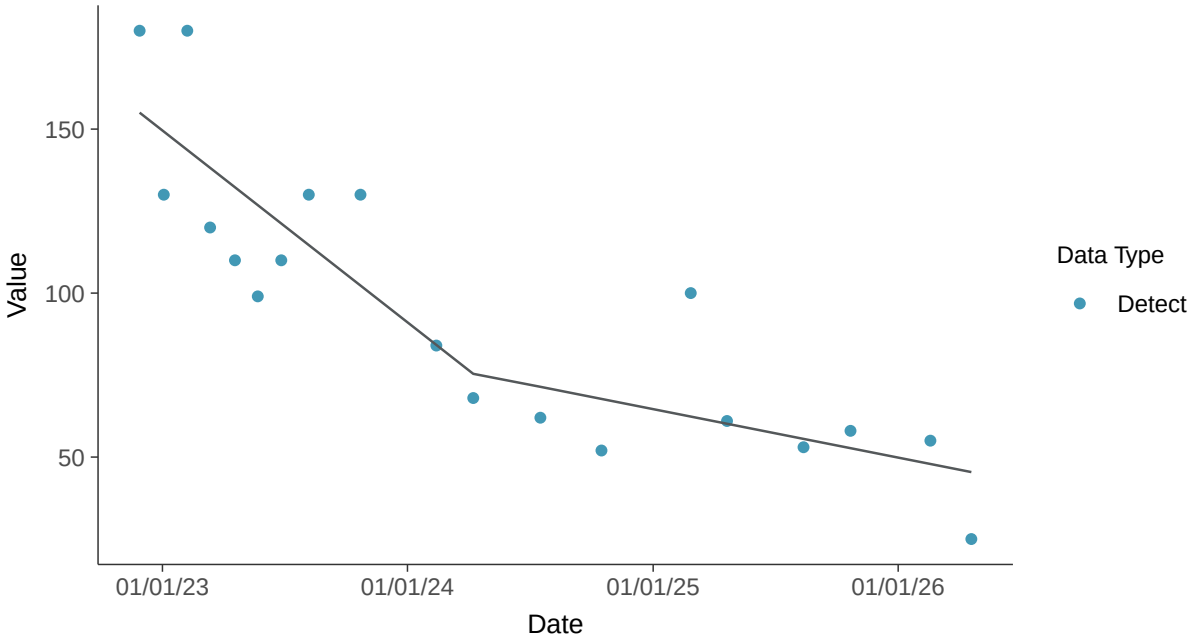
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-12 (mg/L)



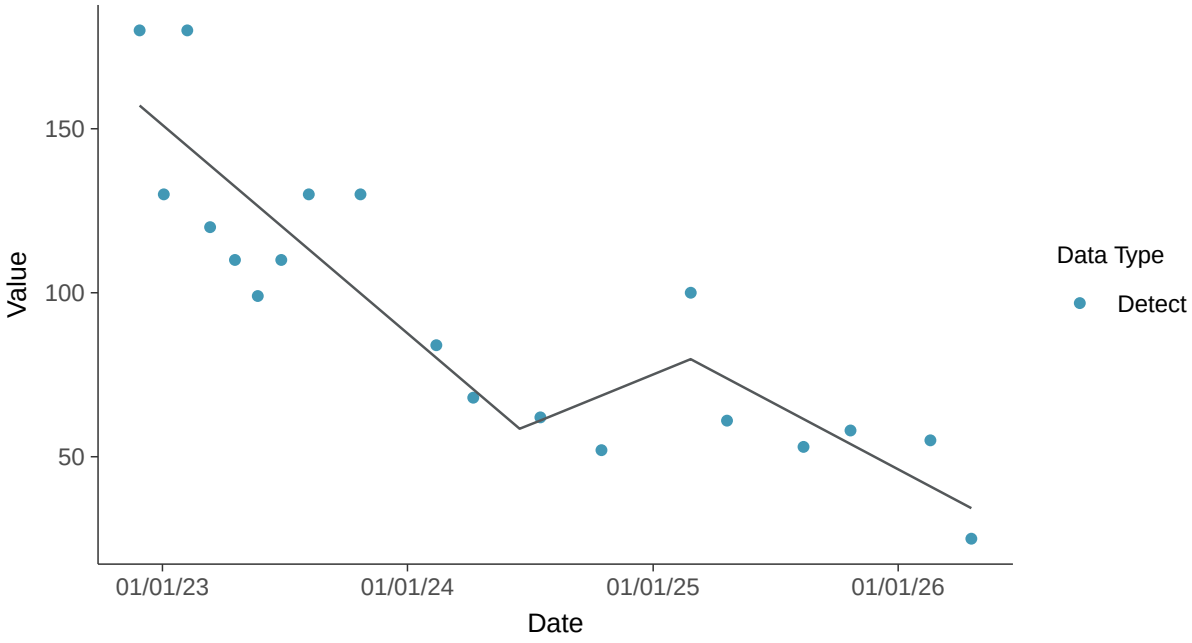
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-12 (mg/L)

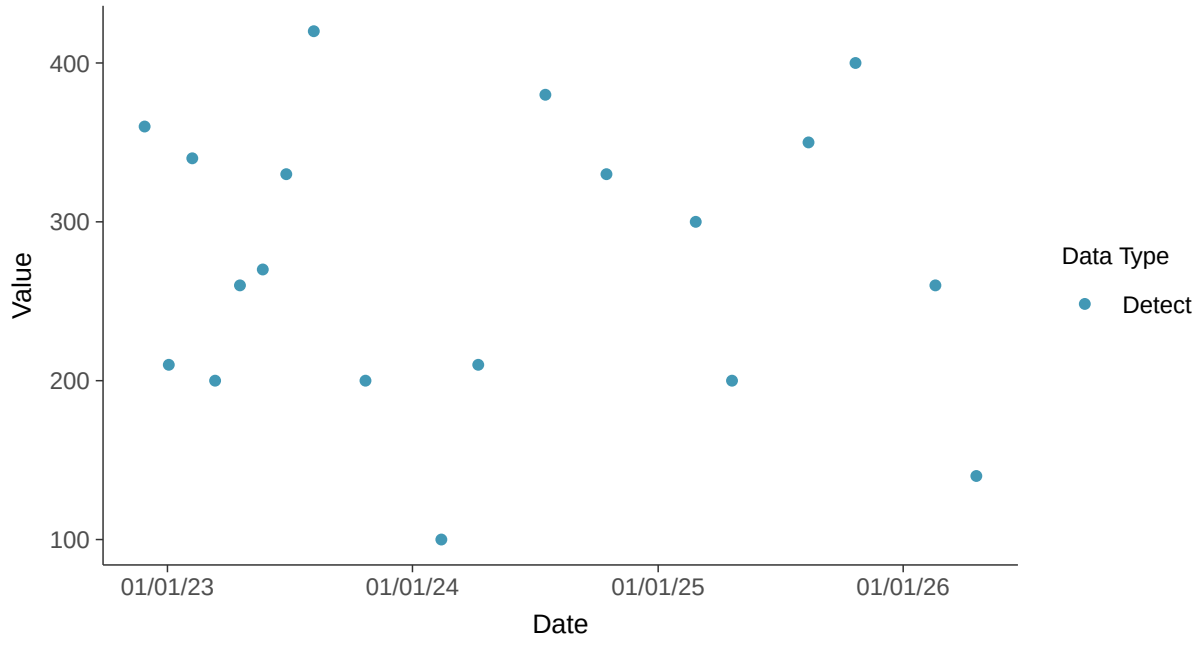


Appendix III: Total Dissolved Solids, MW-12

ID: 22_2_3_126

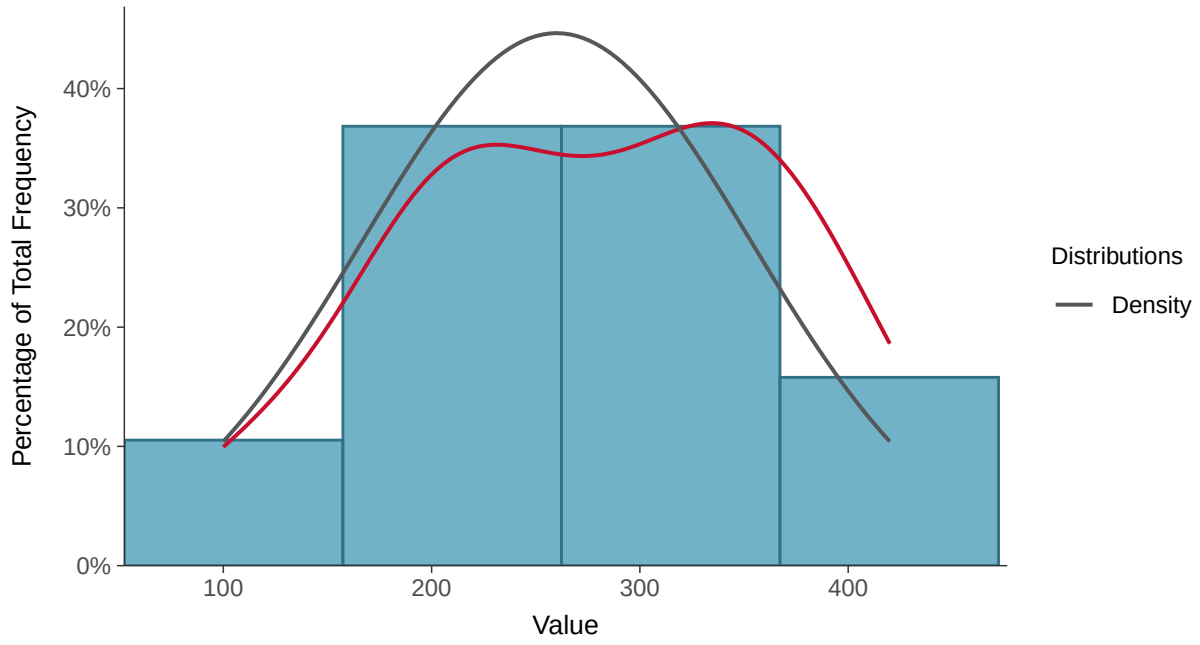
Scatter Plot

Total Dissolved Solids, MW-12 (mg/L)



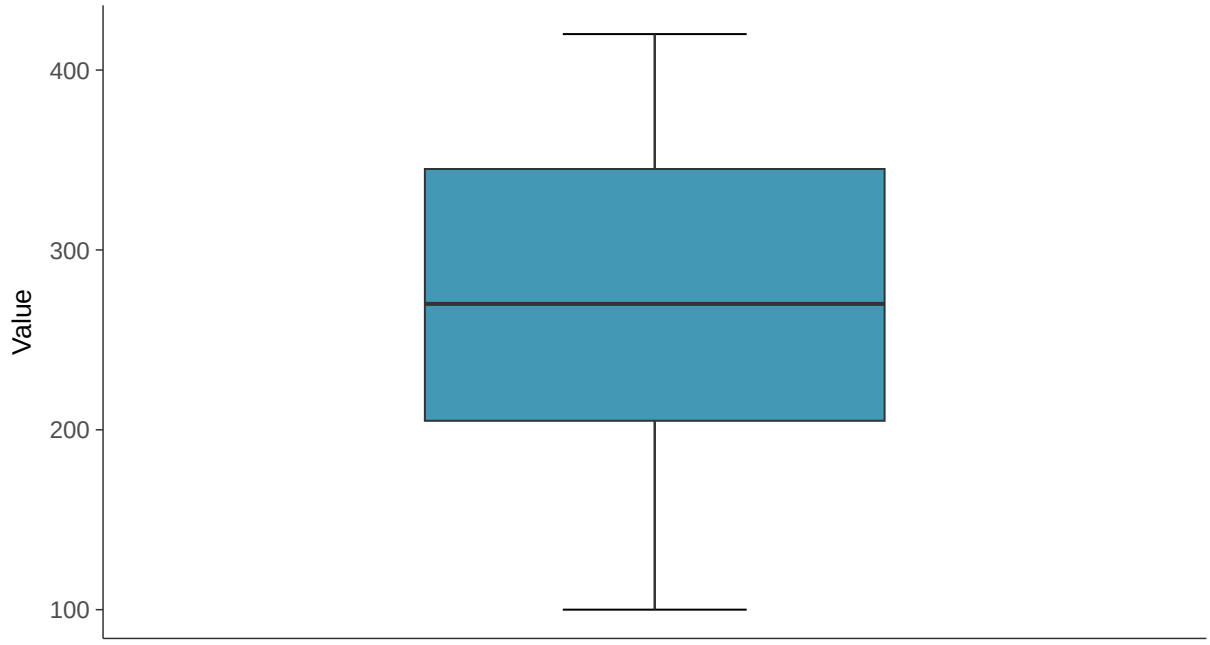
Histogram

Total Dissolved Solids, MW-12 (mg/L)



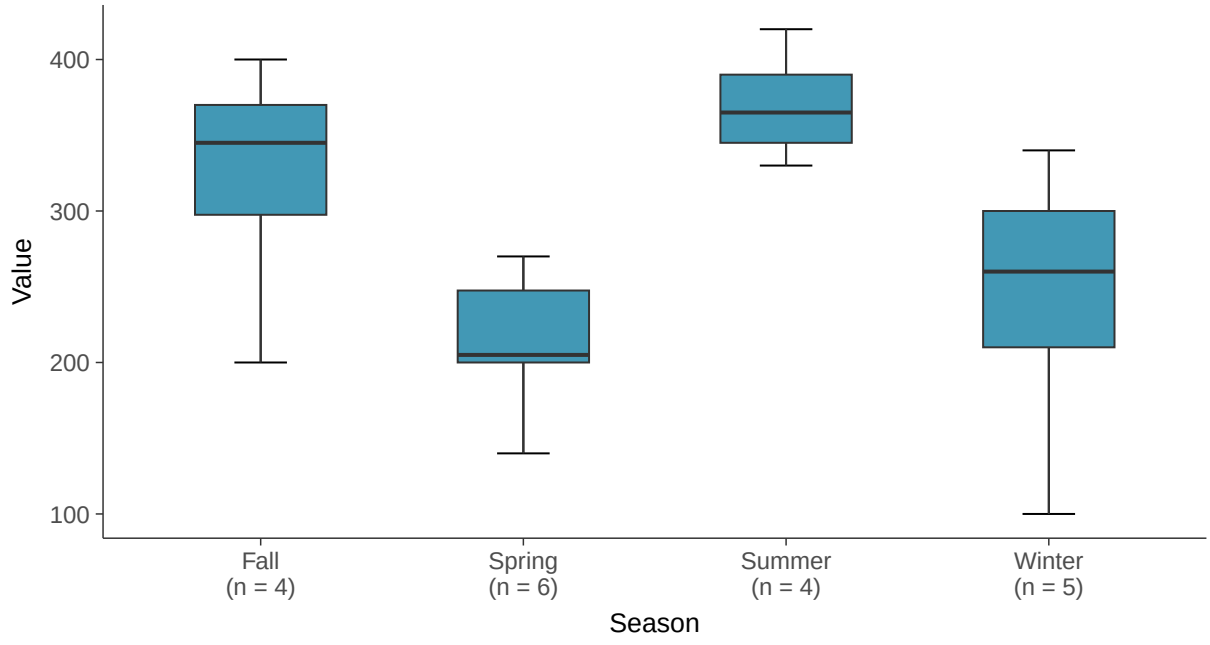
Boxplot

Total Dissolved Solids, MW-12 (mg/L)



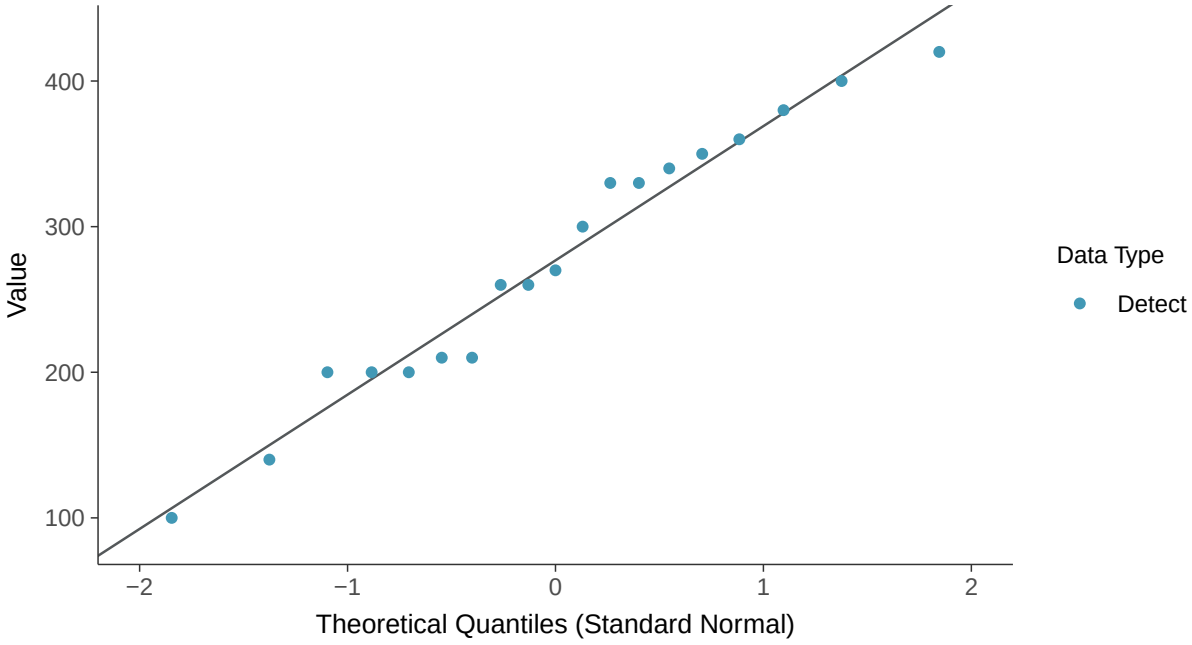
Boxplot by Season

Total Dissolved Solids, MW-12 (mg/L)



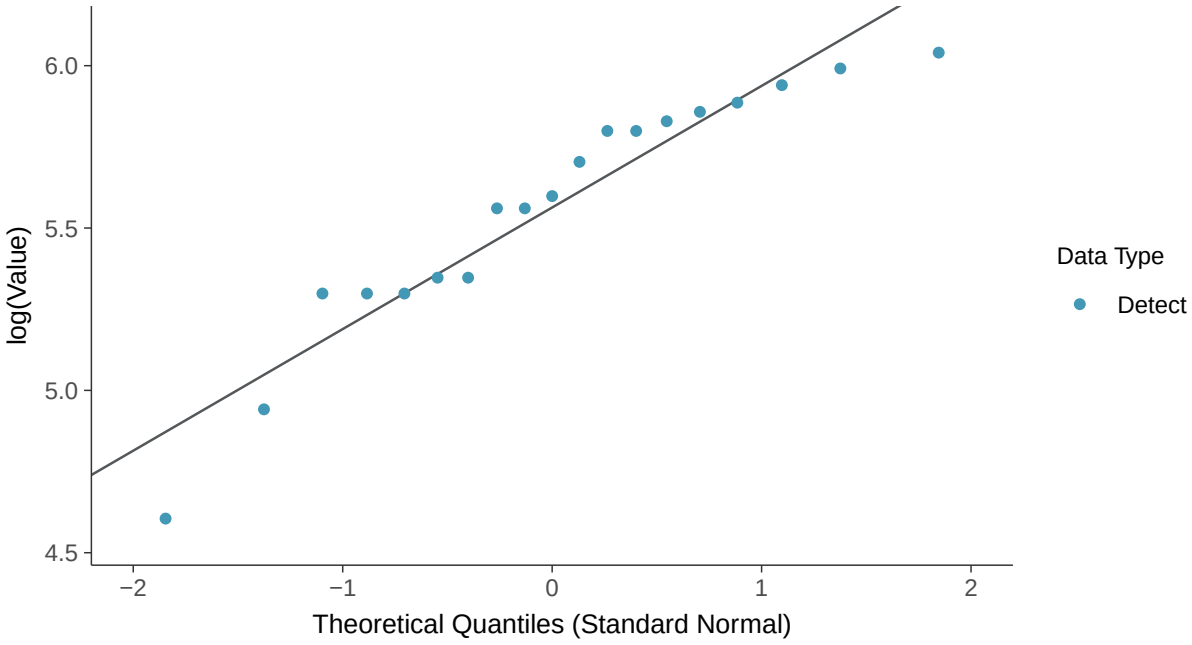
Normal Q-Q plot

Total Dissolved Solids, MW-12 (mg/L)



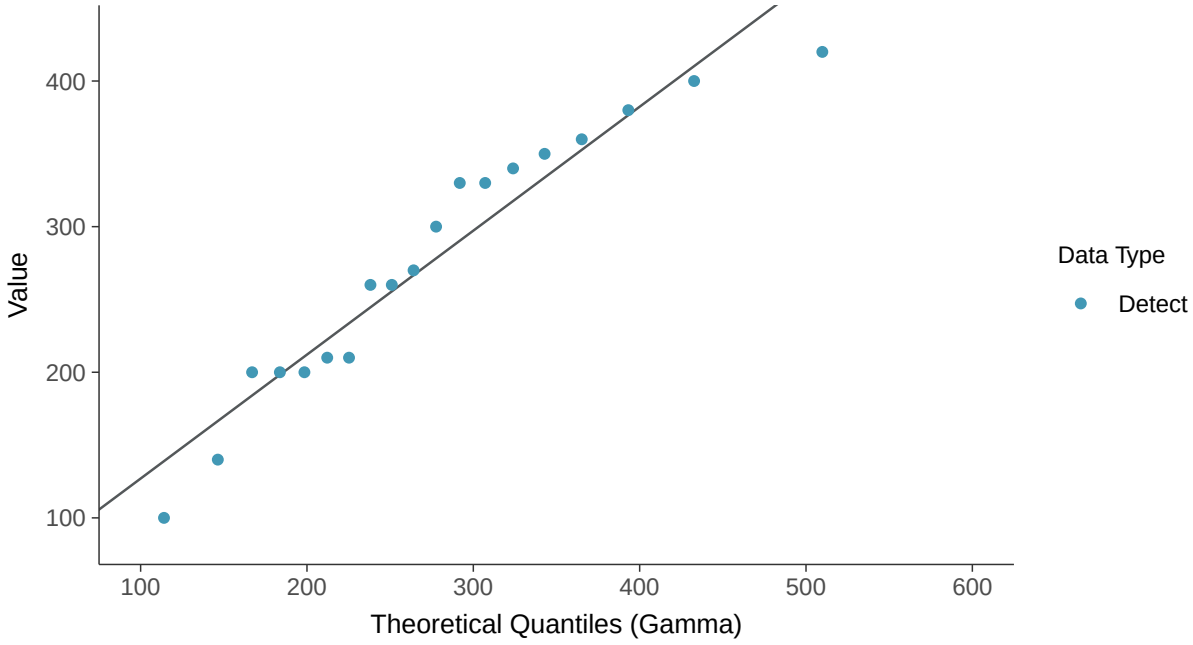
Lognormal Q-Q plot

Total Dissolved Solids, MW-12 (mg/L)



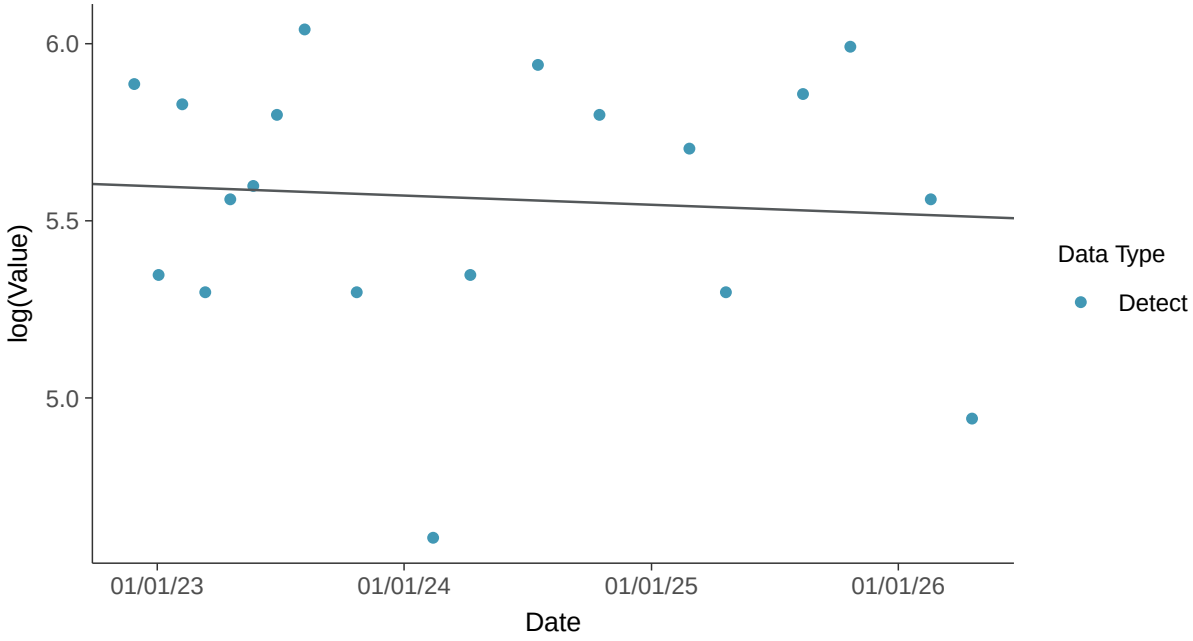
Gamma Q-Q plot

Total Dissolved Solids, MW-12 (mg/L)



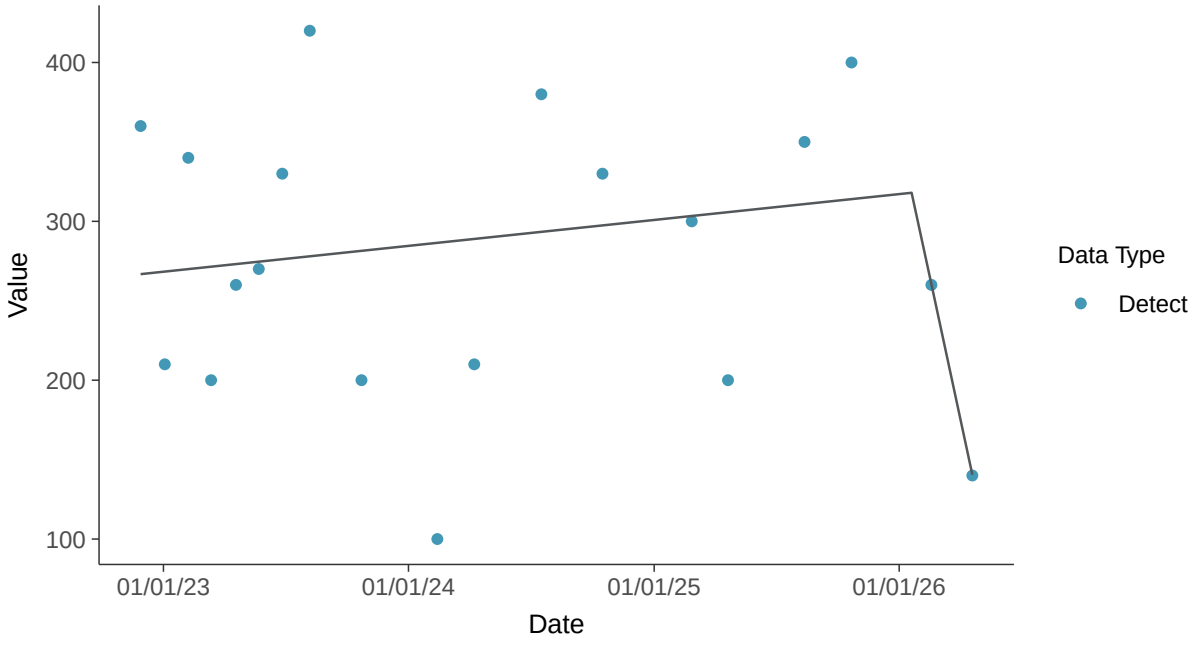
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-12 (mg/L)



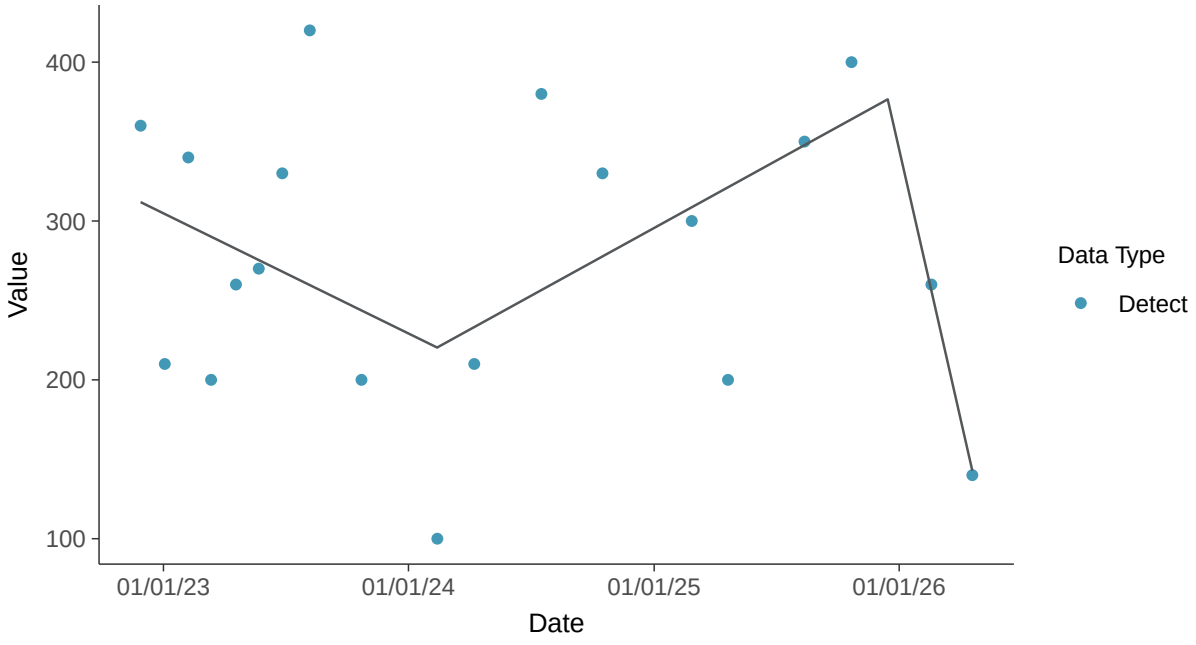
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-12 (mg/L)

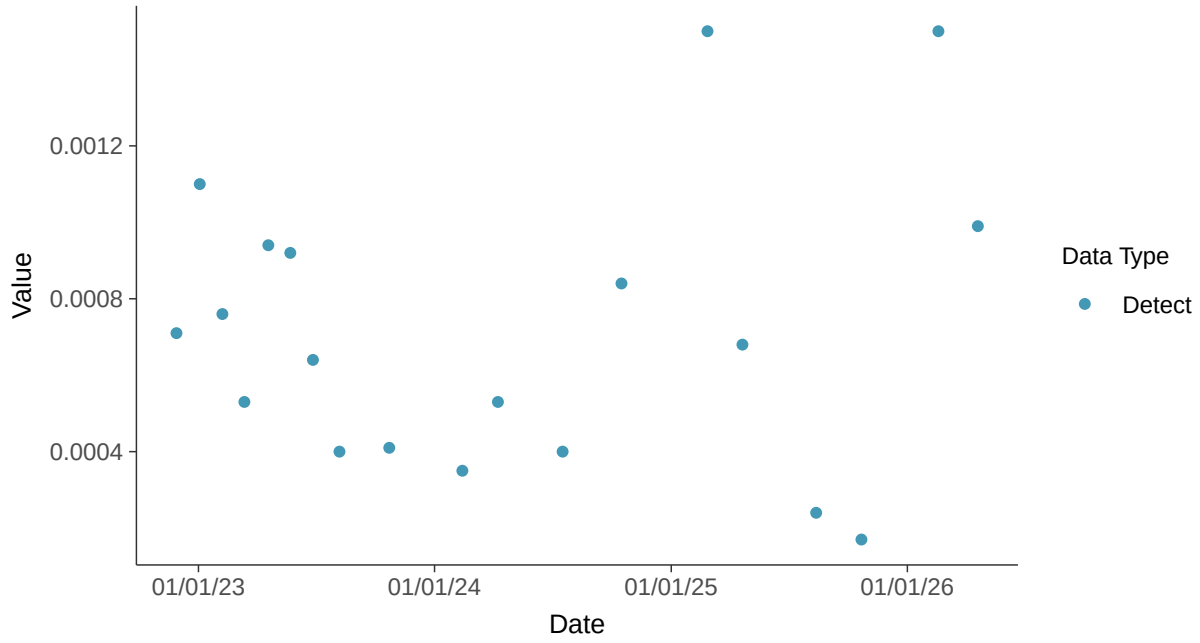


Appendix IV: Antimony, MW-12

ID: 22_2_4_101

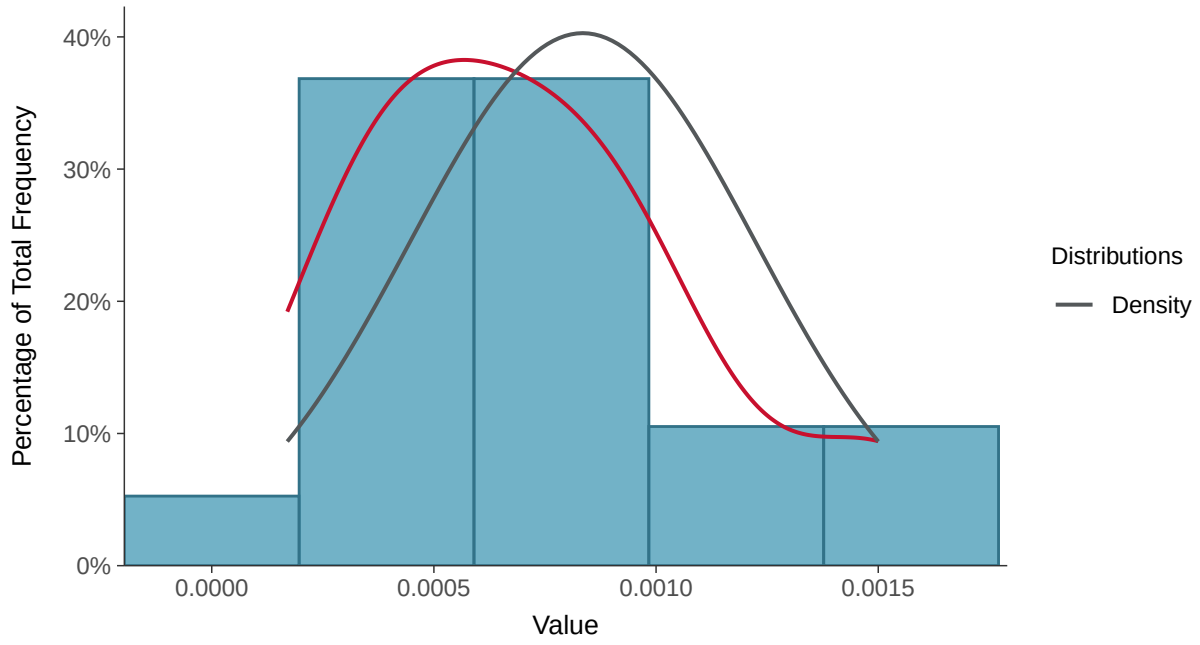
Scatter Plot

Antimony, MW-12 (mg/L)



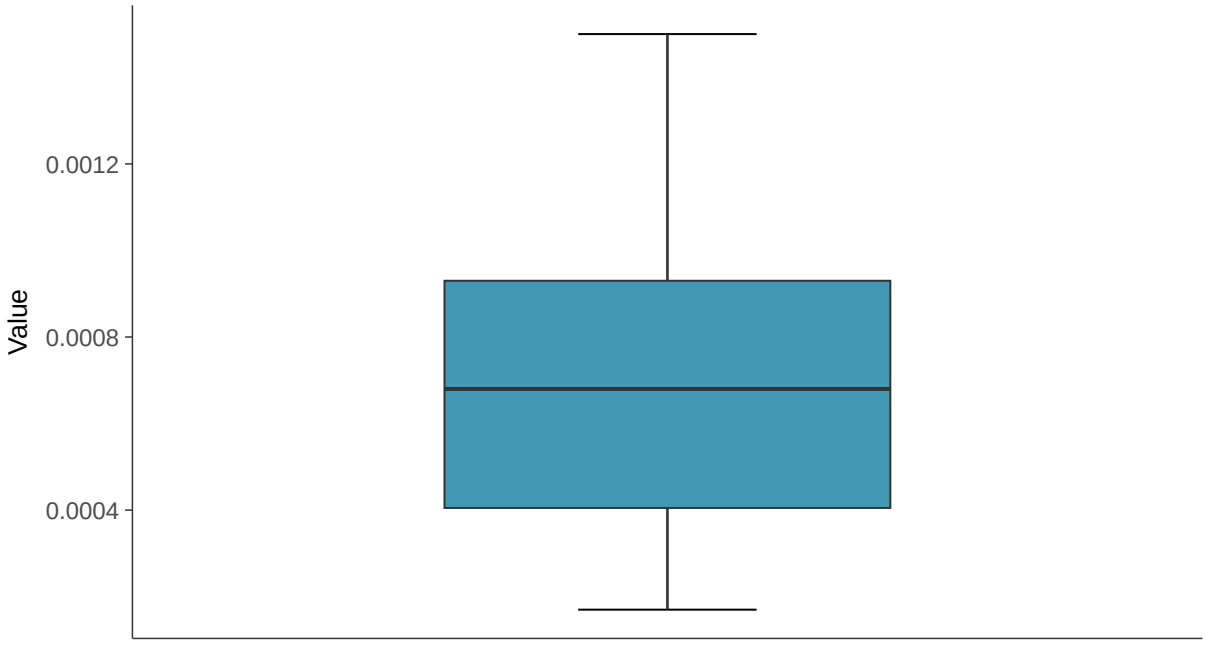
Histogram

Antimony, MW-12 (mg/L)



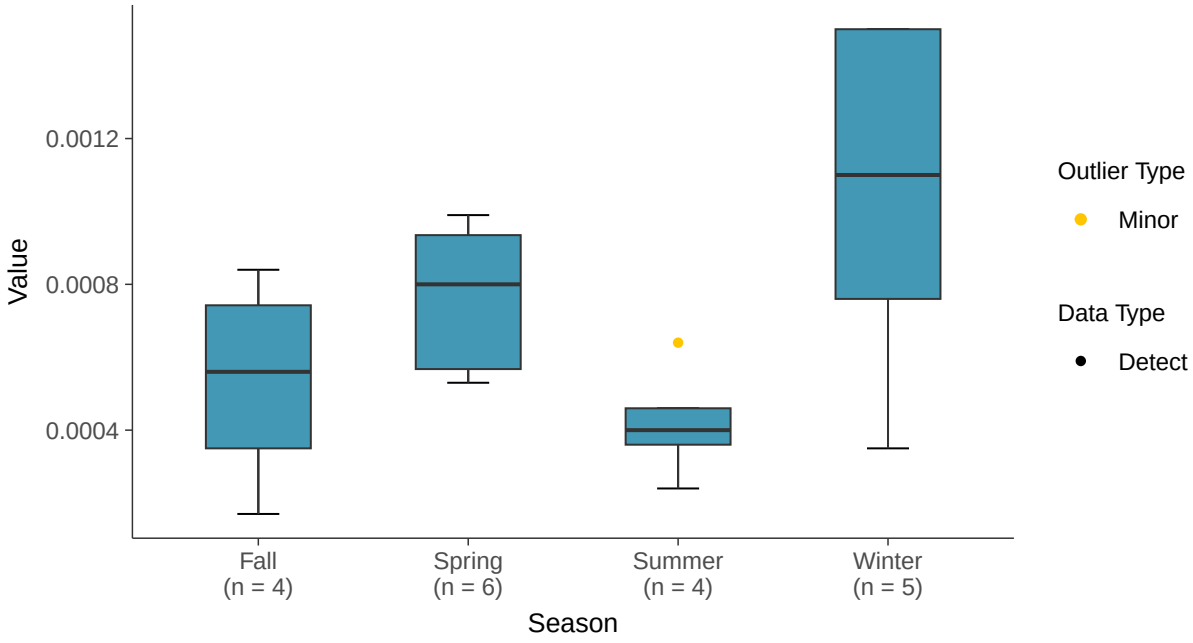
Boxplot

Antimony, MW-12 (mg/L)



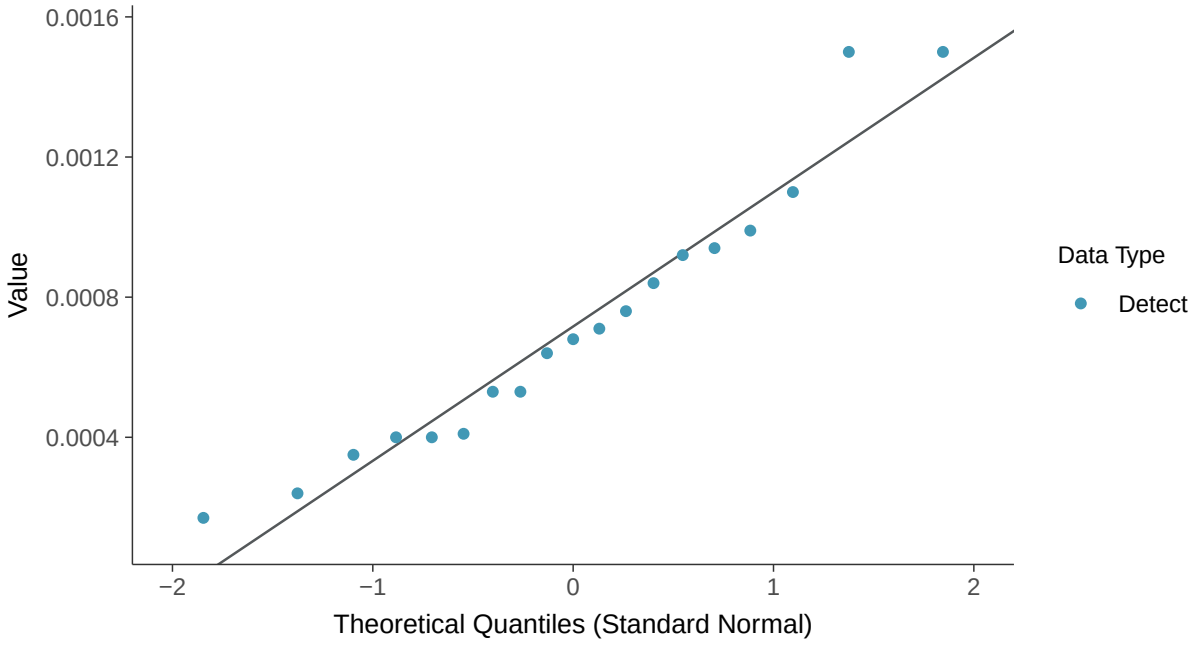
Boxplot by Season

Antimony, MW-12 (mg/L)



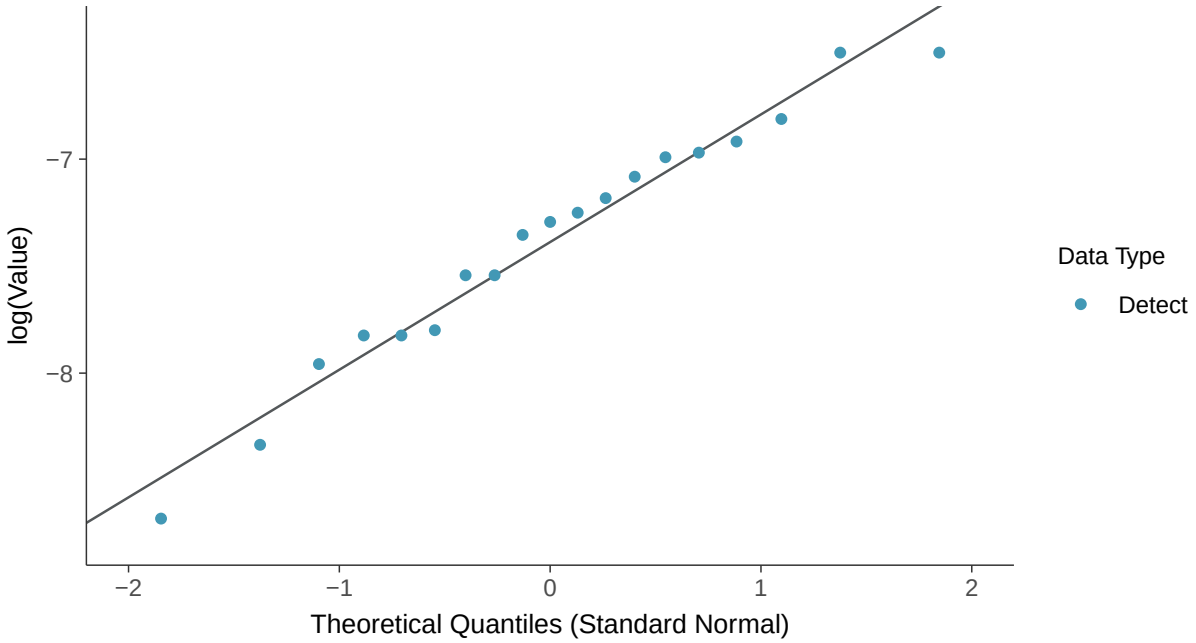
Normal Q-Q plot

Antimony, MW-12 (mg/L)



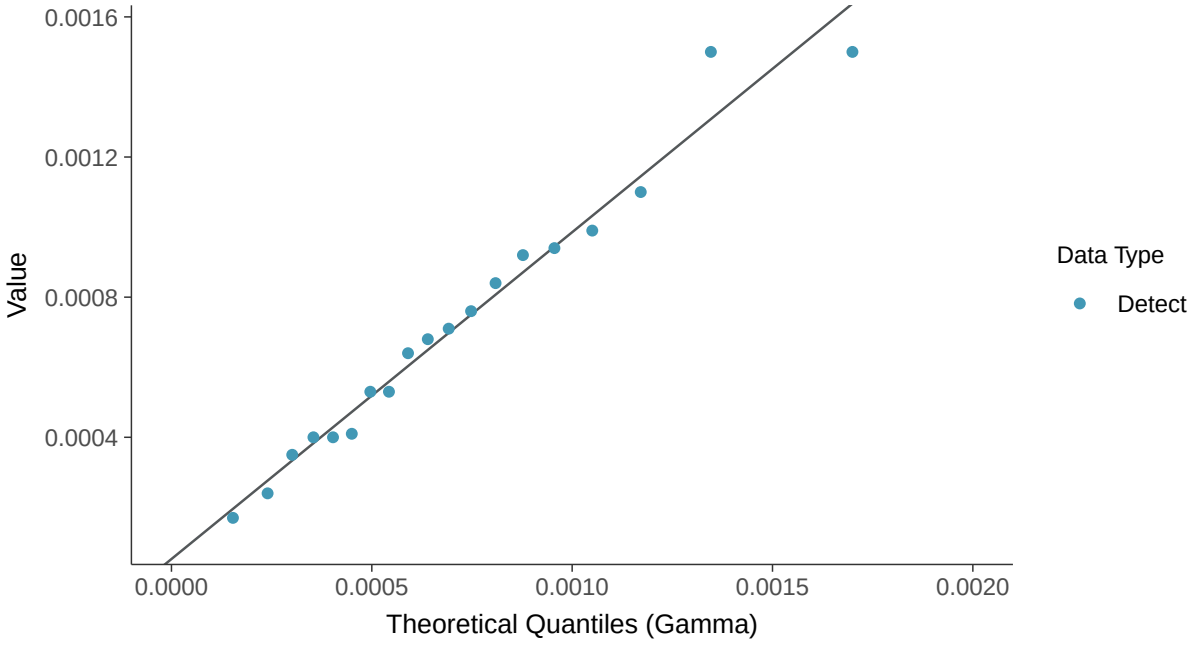
Lognormal Q-Q plot

Antimony, MW-12 (mg/L)



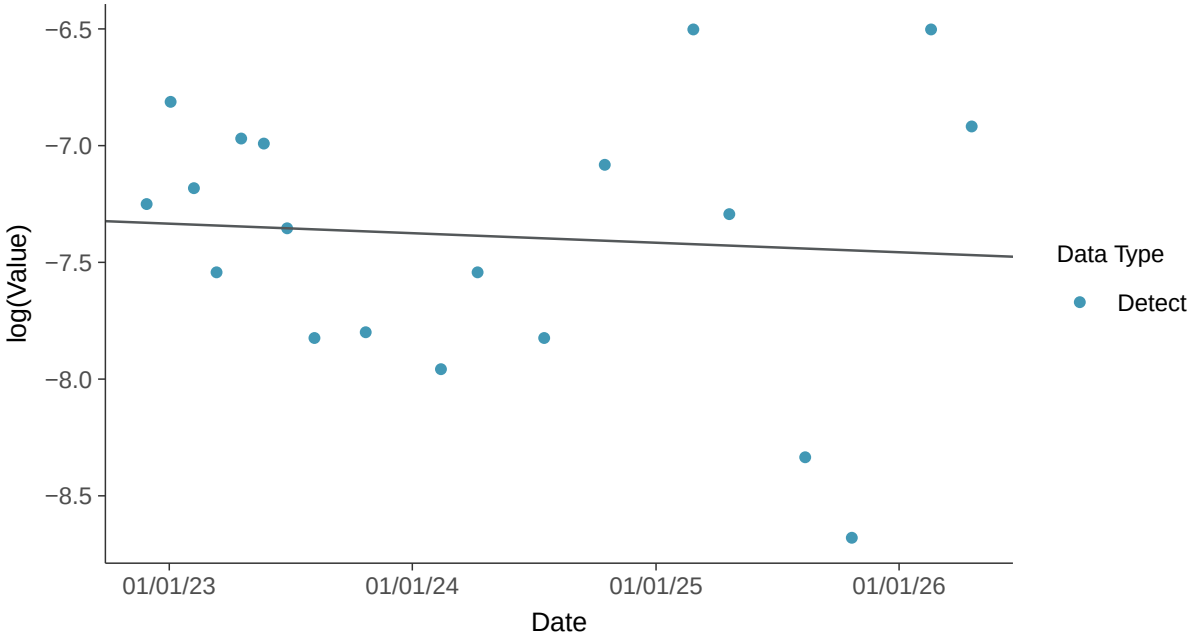
Gamma Q-Q plot

Antimony, MW-12 (mg/L)



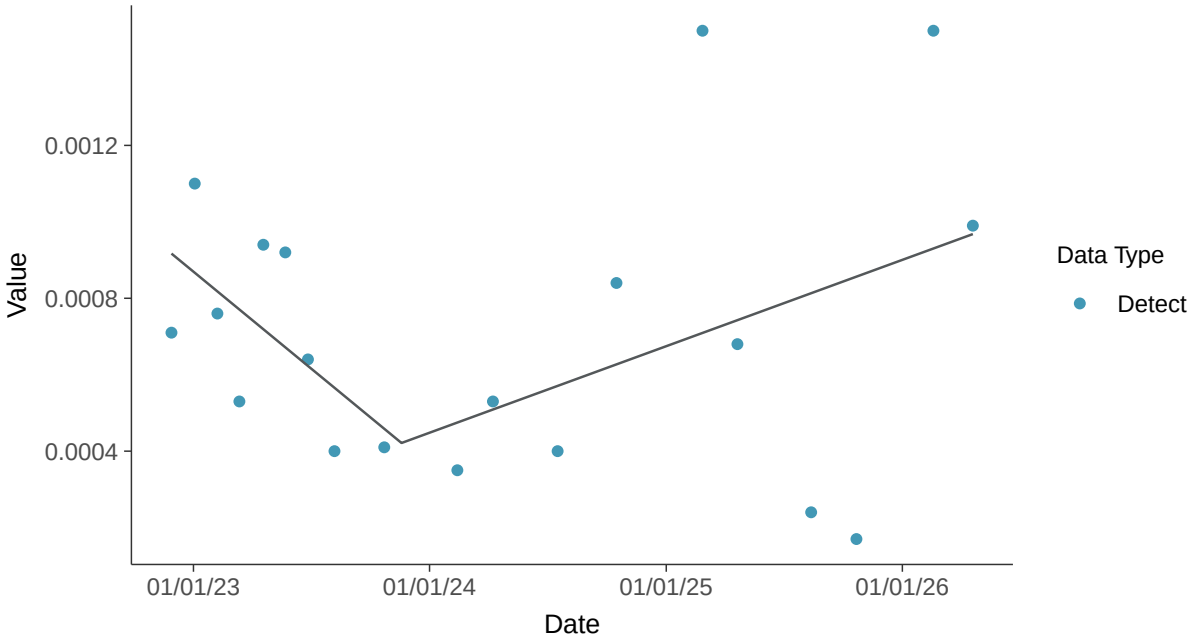
Trend Regression: Lognormal MLE

Antimony, MW-12 (mg/L)



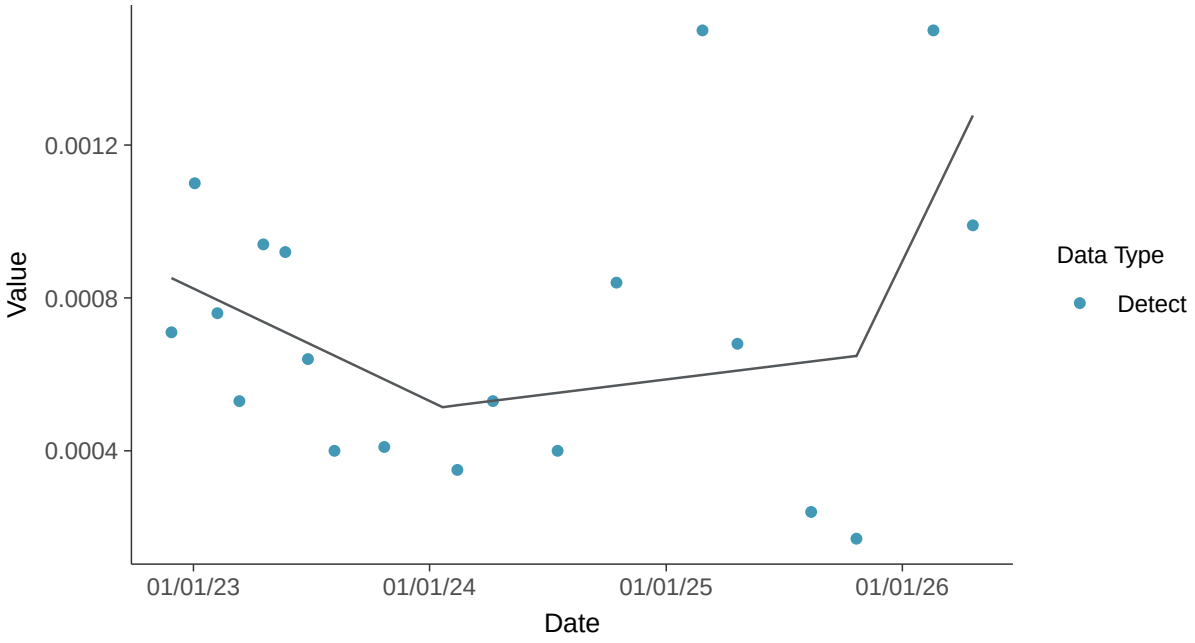
Trend Regression: Piecewise Linear-Linear

Antimony, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-12 (mg/L)

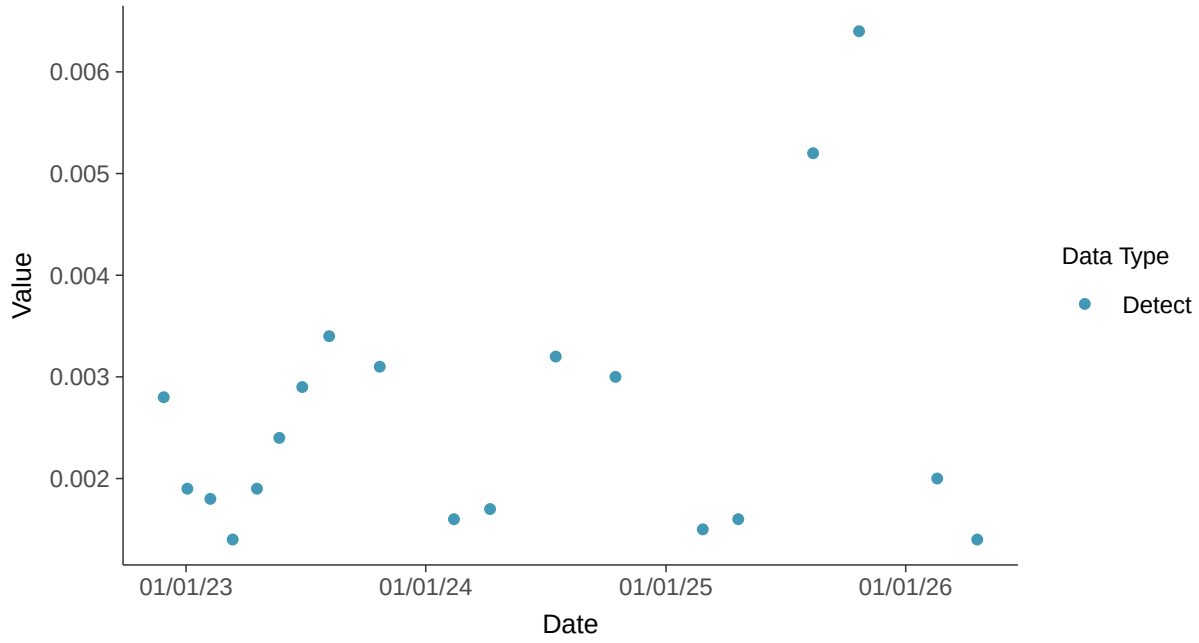


Appendix IV: Arsenic, MW-12

ID: 22_2_4_102

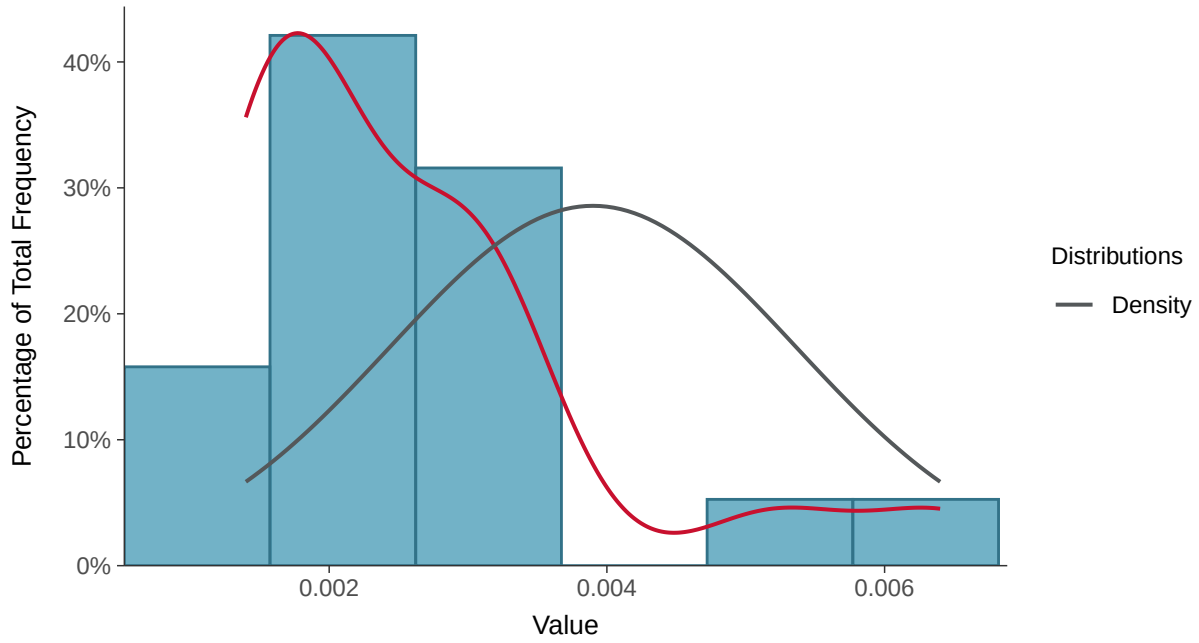
Scatter Plot

Arsenic, MW-12 (mg/L)



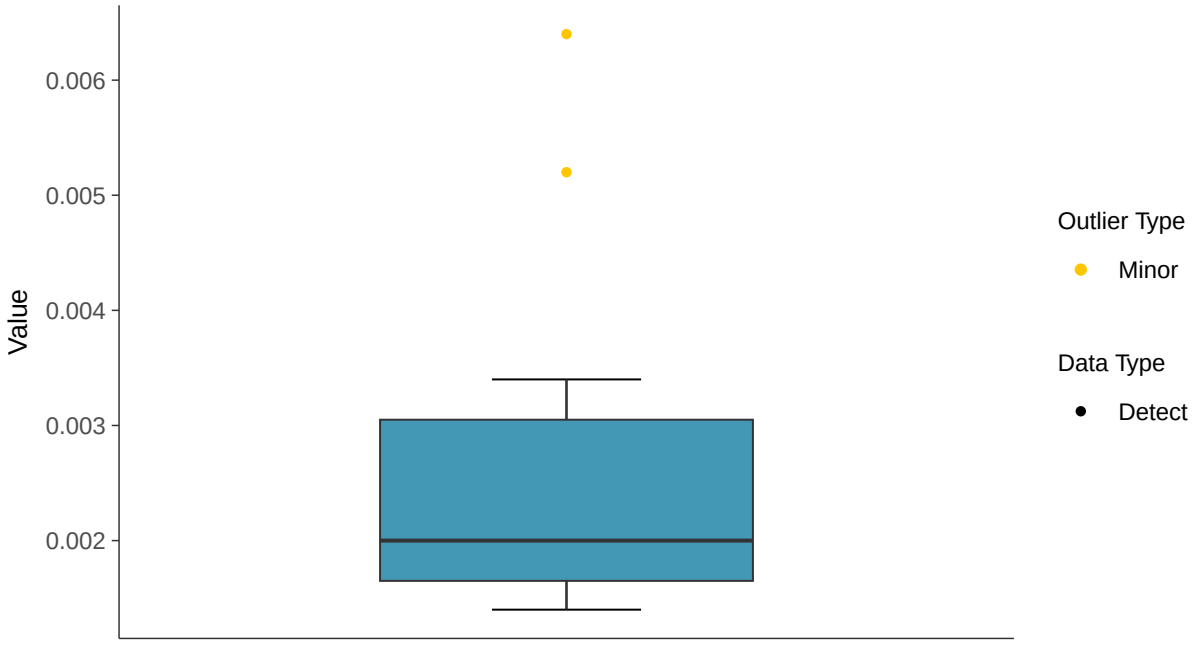
Histogram

Arsenic, MW-12 (mg/L)



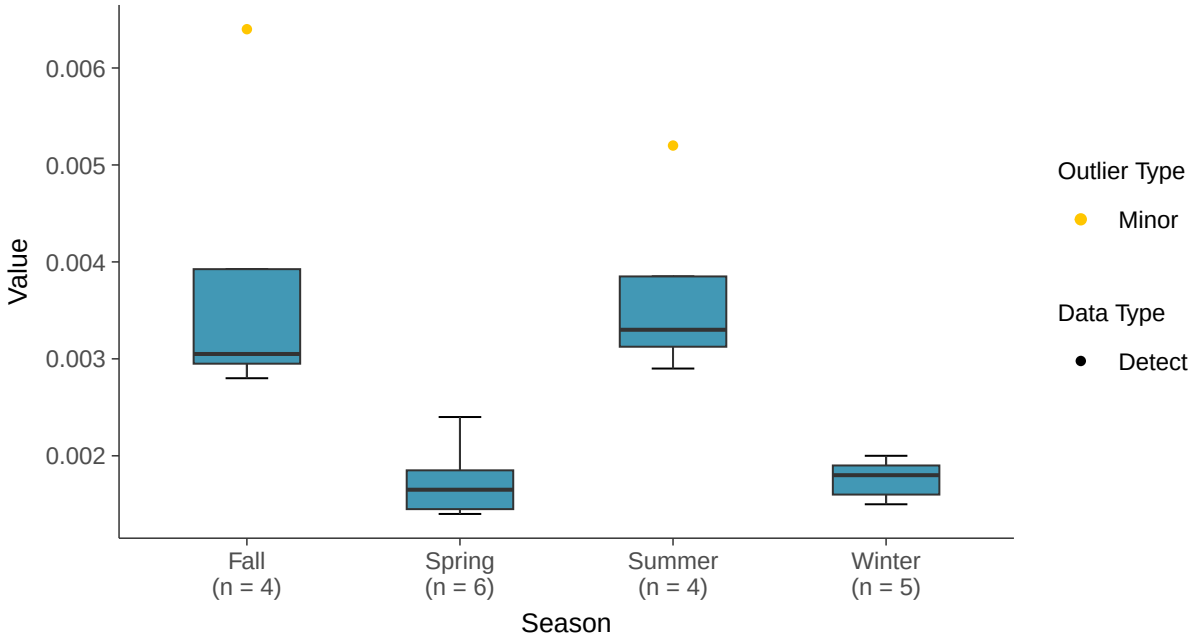
Boxplot

Arsenic, MW-12 (mg/L)



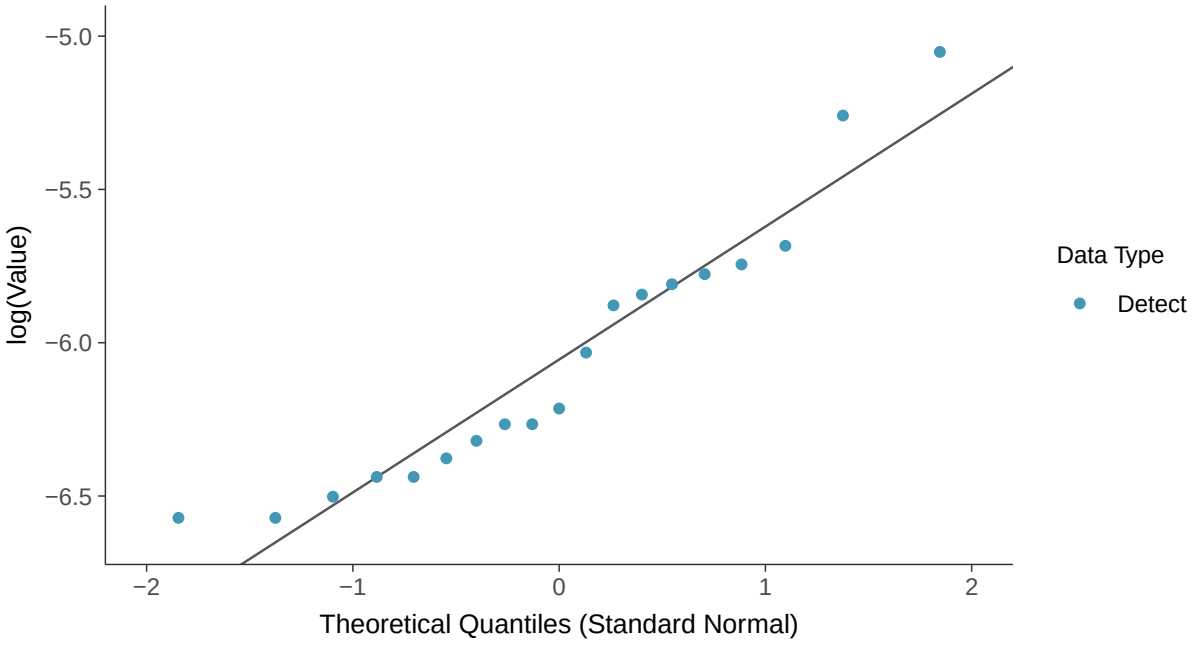
Boxplot by Season

Arsenic, MW-12 (mg/L)



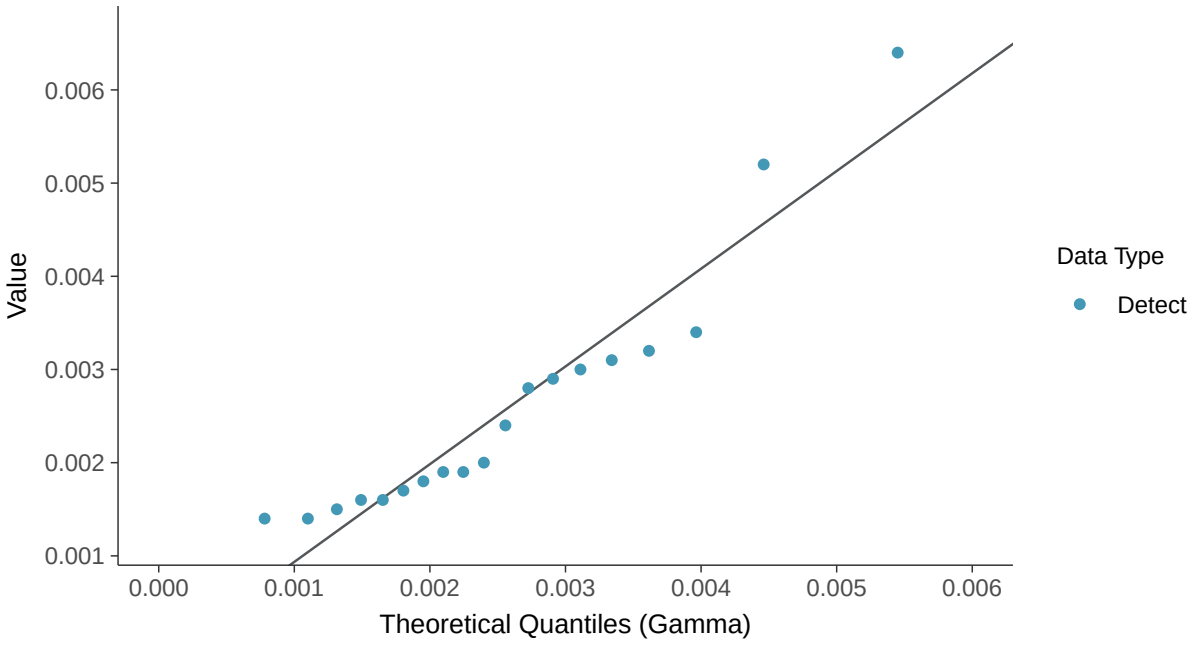
Lognormal Q-Q plot

Arsenic, MW-12 (mg/L)



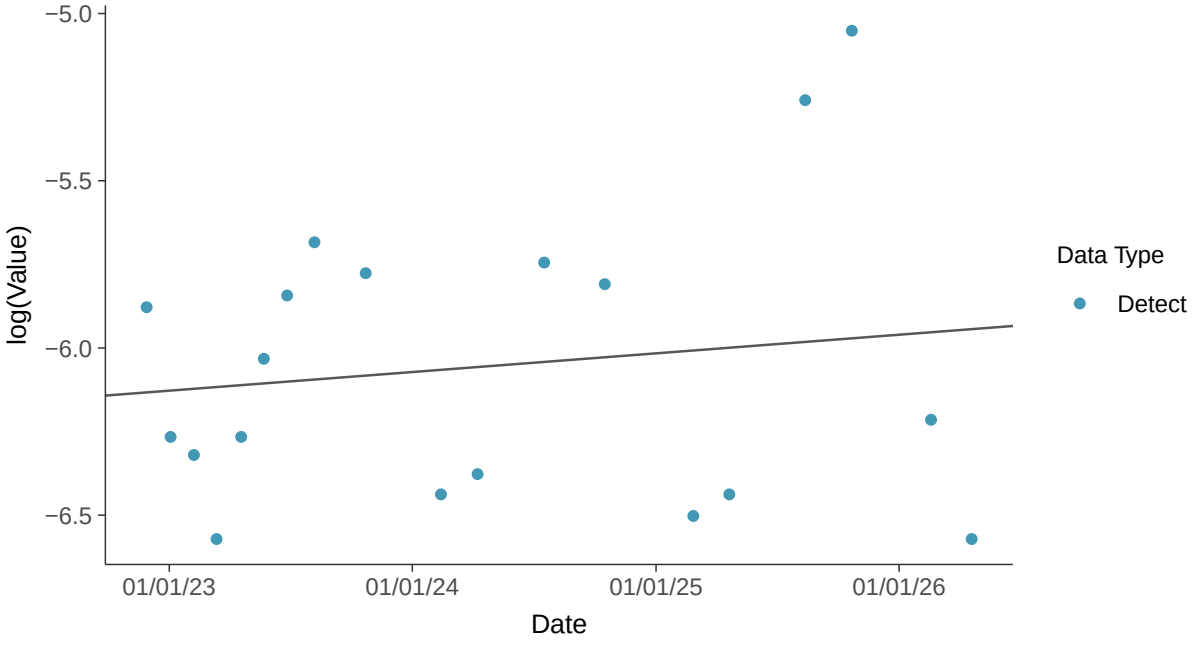
Gamma Q-Q plot

Arsenic, MW-12 (mg/L)



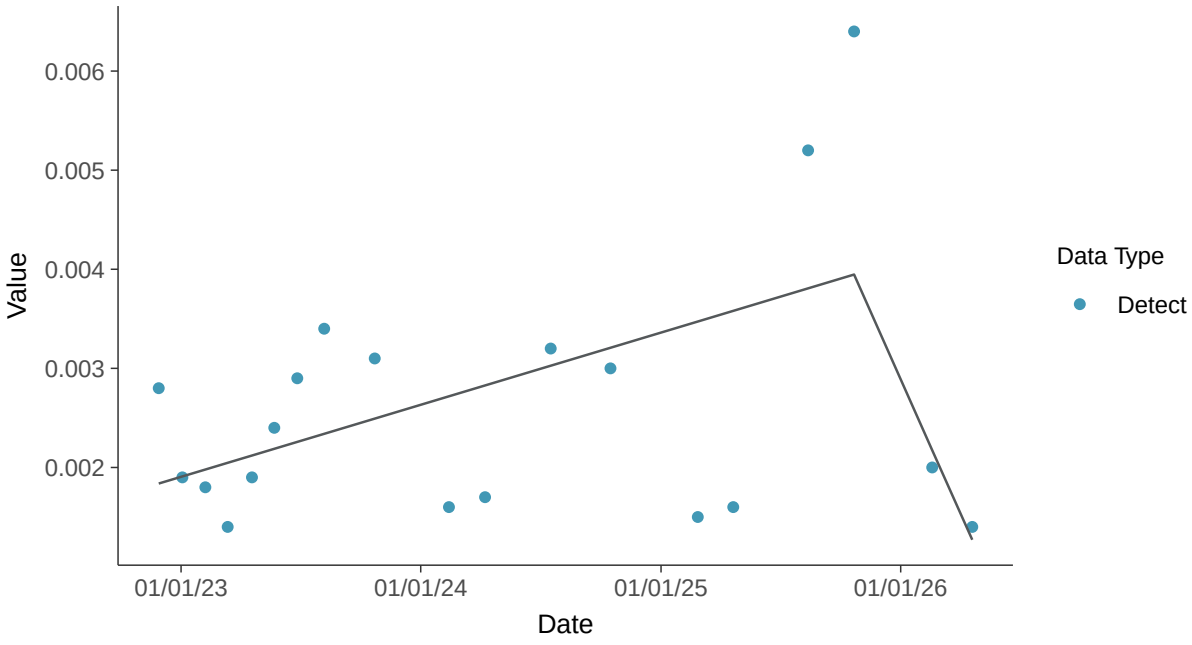
Trend Regression: Lognormal MLE

Arsenic, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-12 (mg/L)

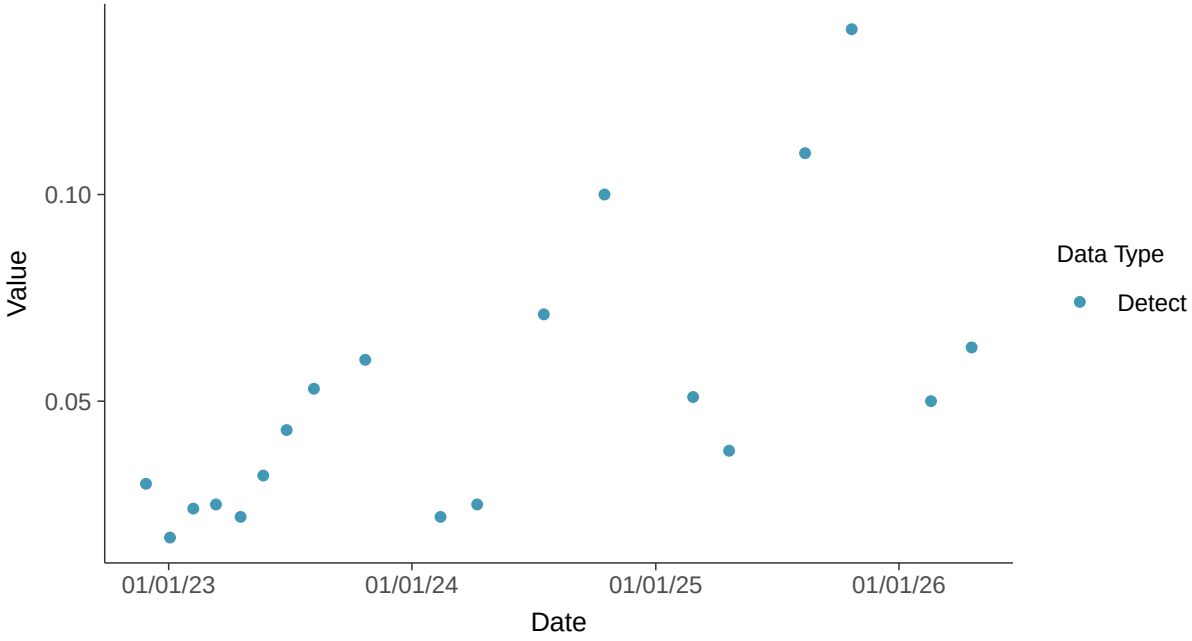


Appendix IV: Barium, MW-12

ID: 22_2_4_103

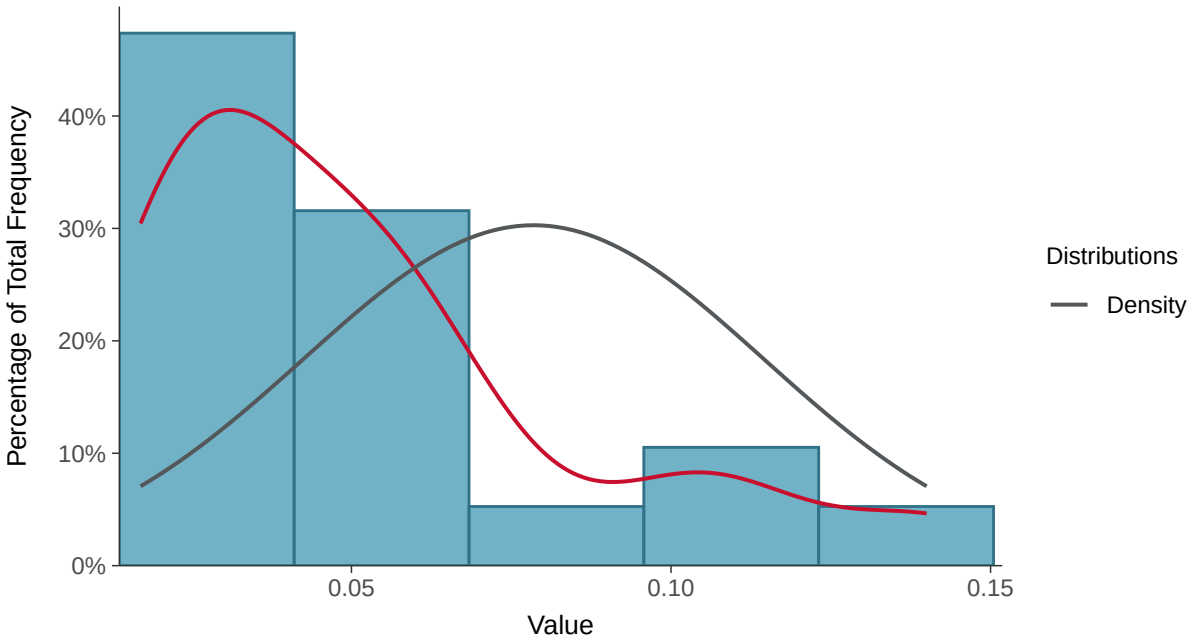
Scatter Plot

Barium, MW-12 (mg/L)



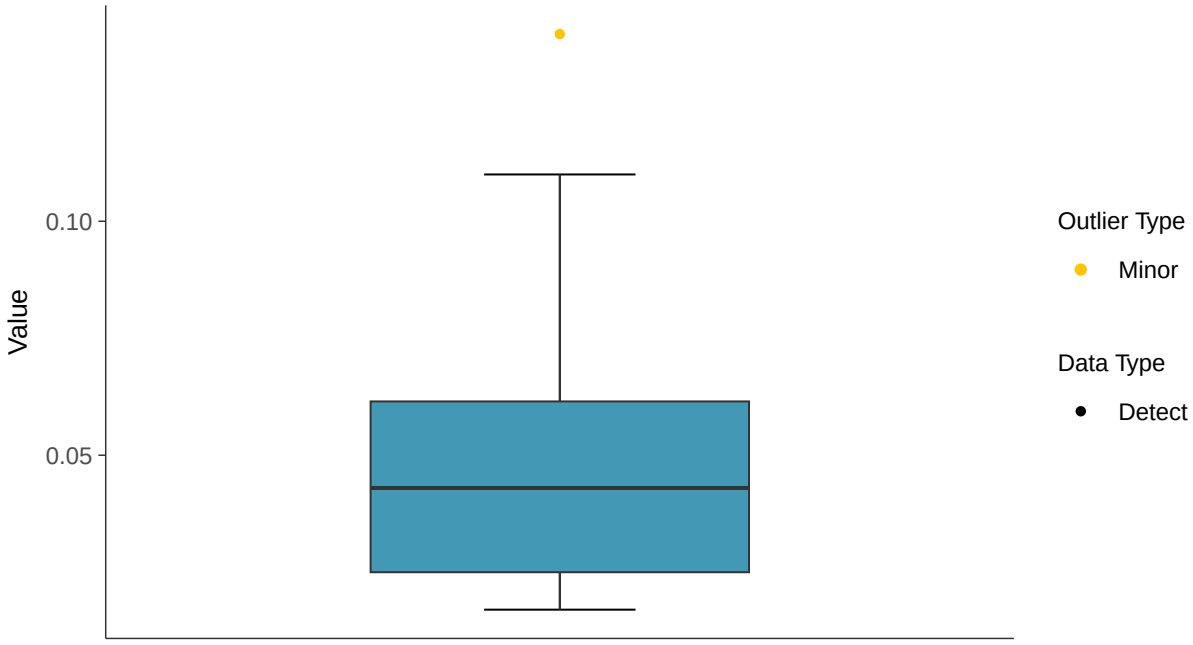
Histogram

Barium, MW-12 (mg/L)



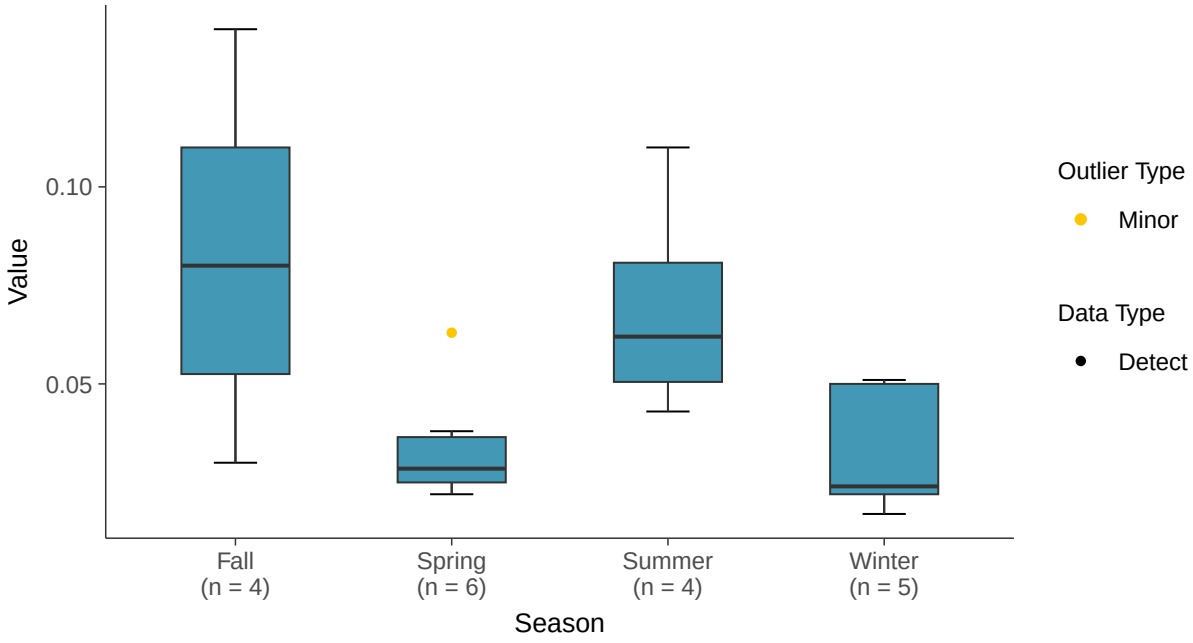
Boxplot

Barium, MW-12 (mg/L)



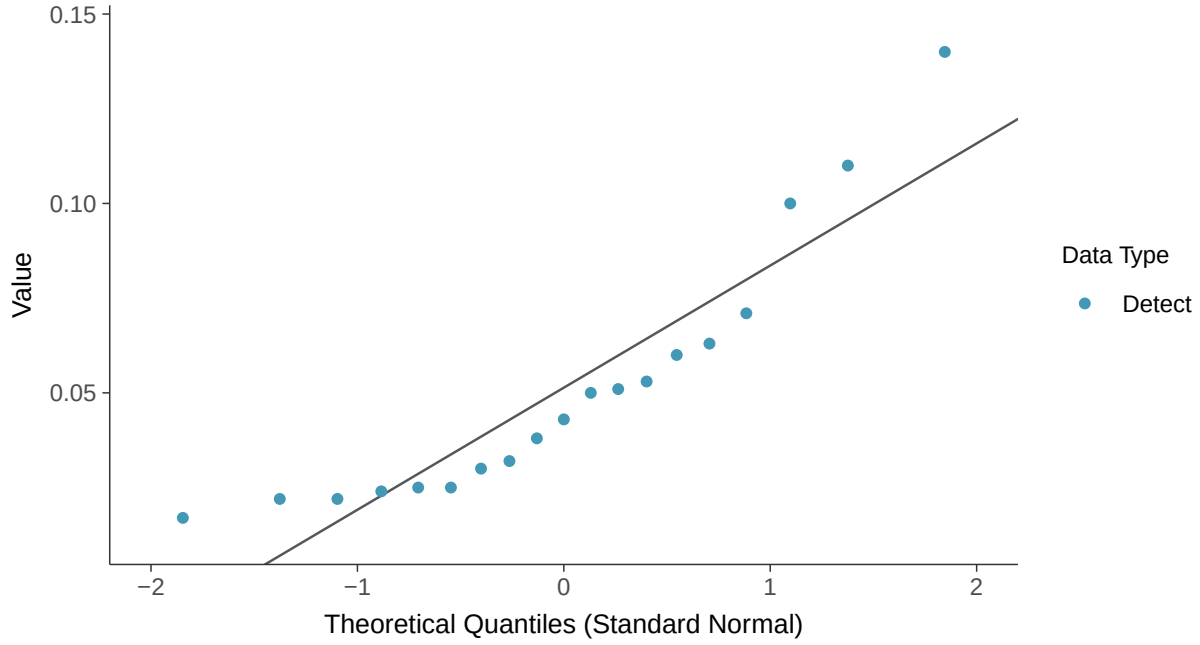
Boxplot by Season

Barium, MW-12 (mg/L)



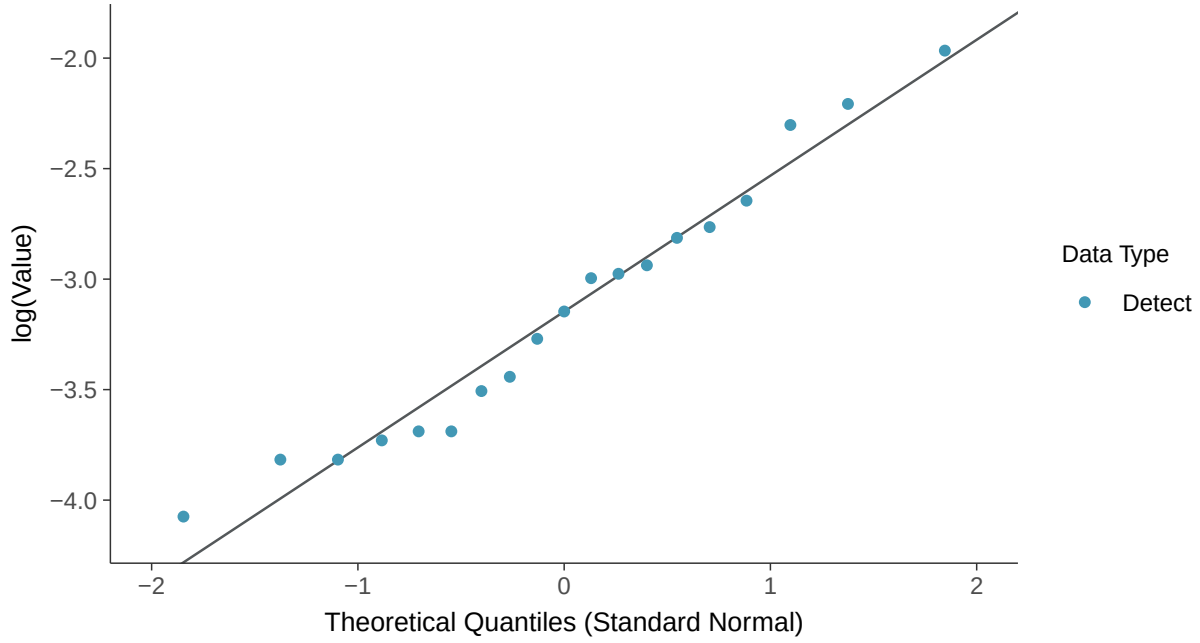
Normal Q-Q plot

Barium, MW-12 (mg/L)



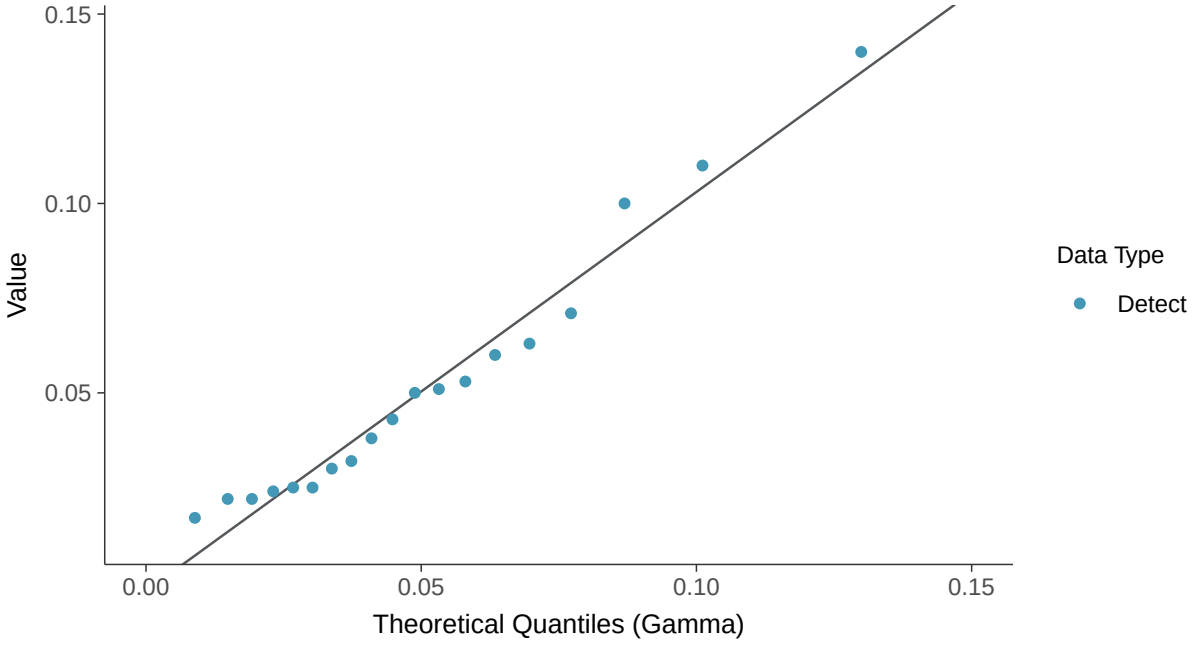
Lognormal Q-Q plot

Barium, MW-12 (mg/L)



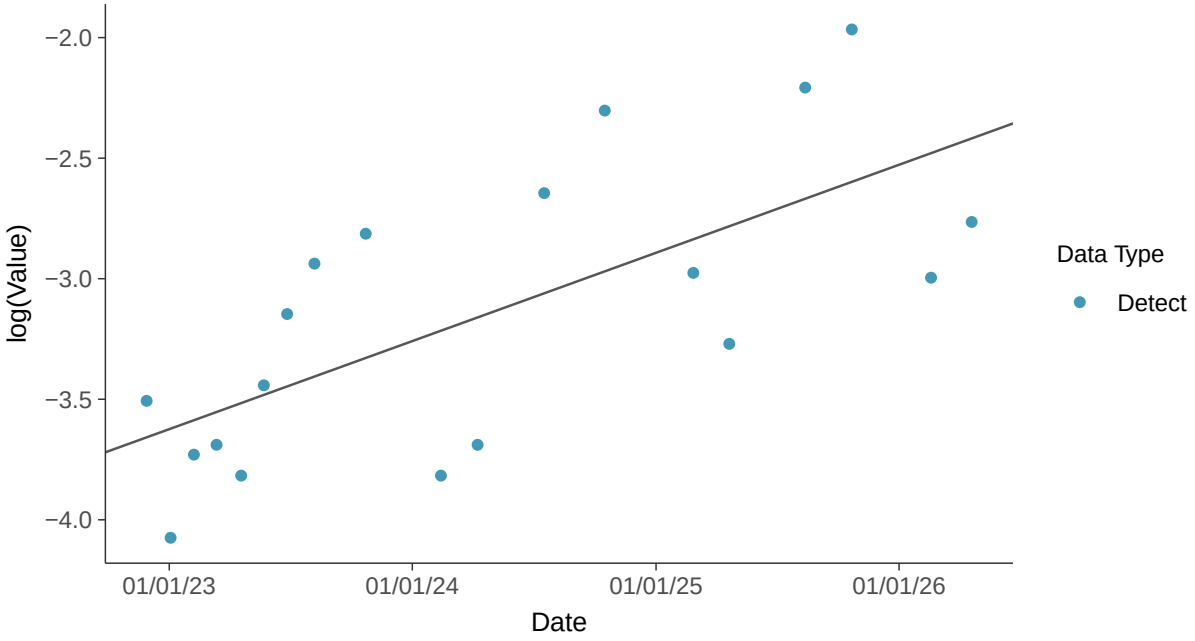
Gamma Q-Q plot

Barium, MW-12 (mg/L)



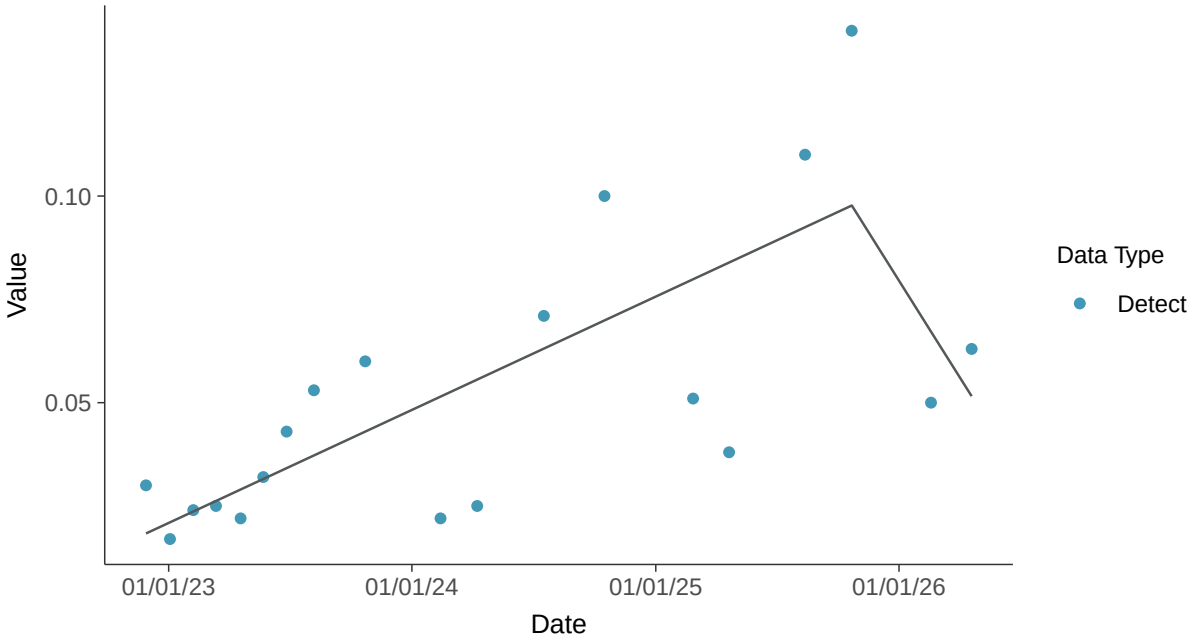
Trend Regression: Lognormal MLE

Barium, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Barium, MW-12 (mg/L)

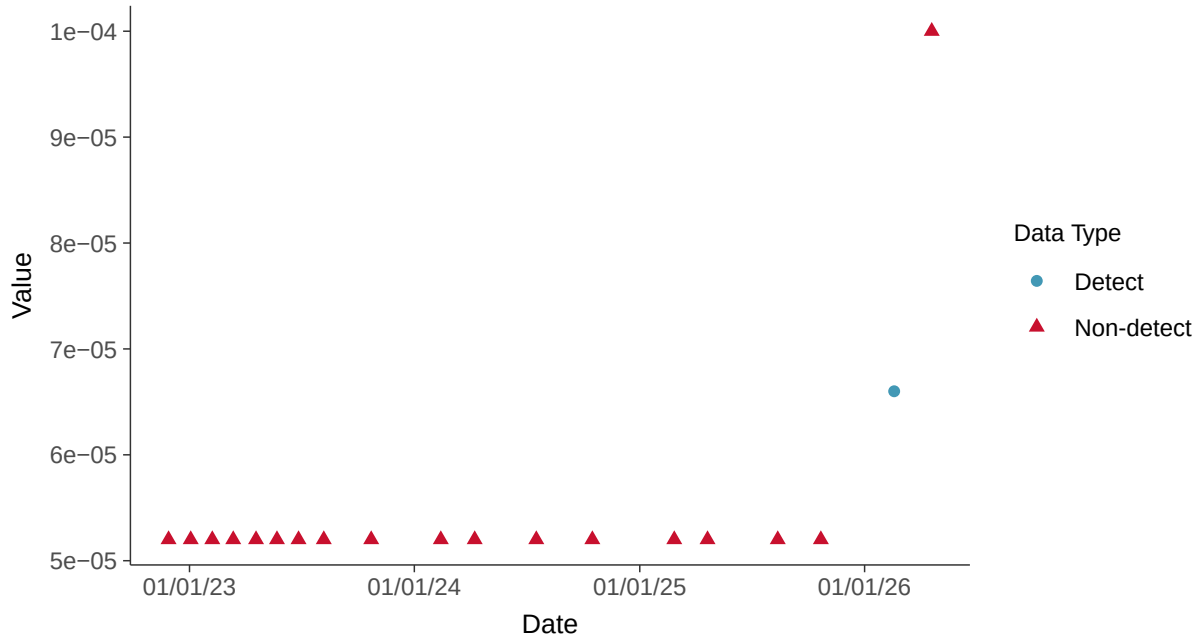


Appendix IV: Beryllium, MW-12

ID: 22_2_4_104

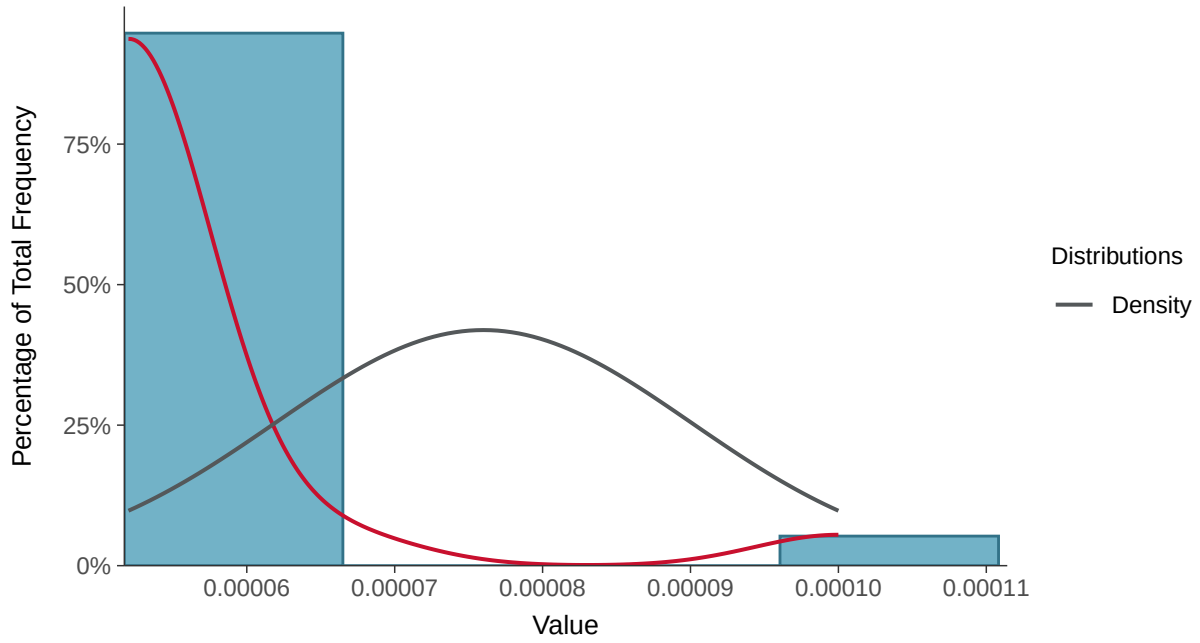
Scatter Plot

Beryllium, MW-12 (mg/L)



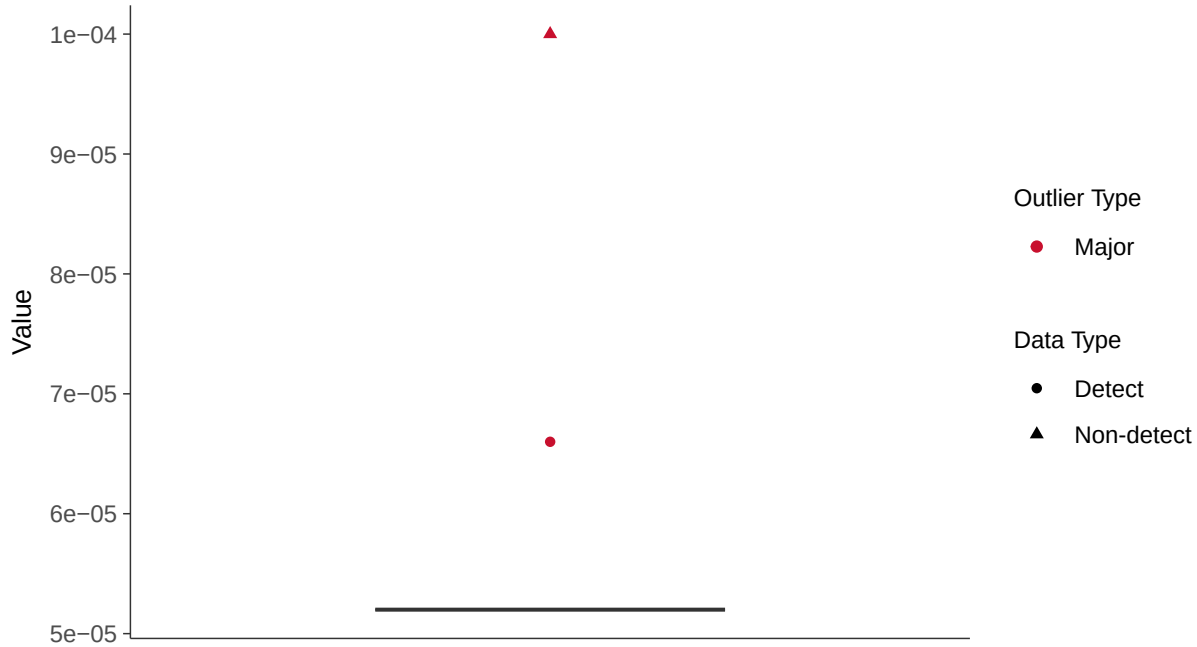
Histogram

Beryllium, MW-12 (mg/L)



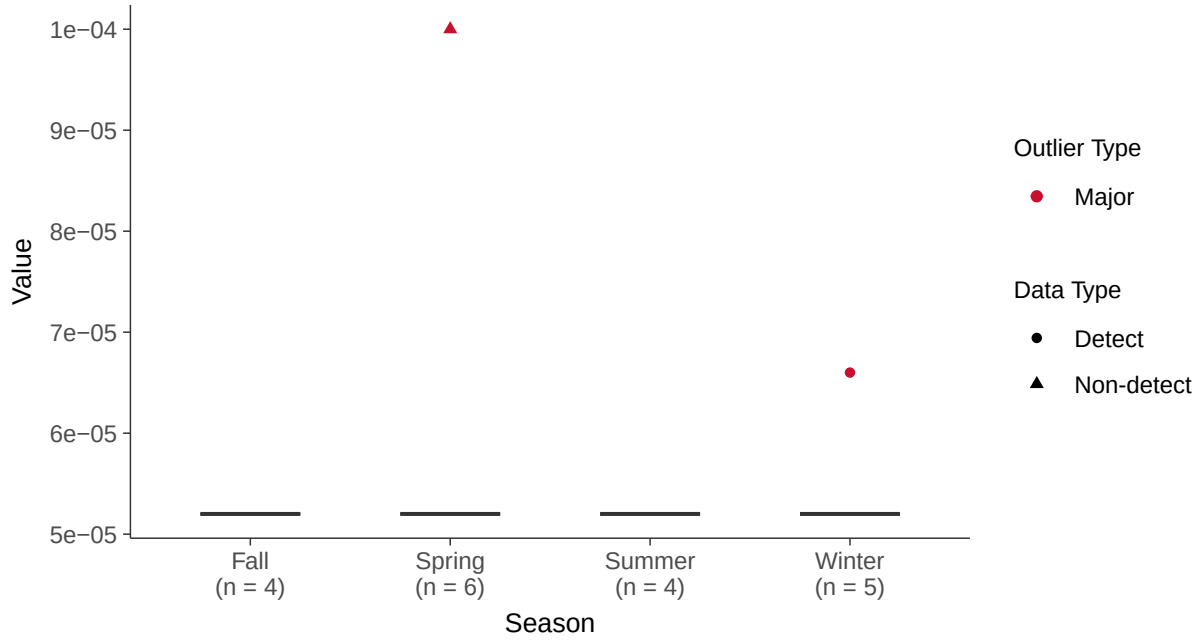
Boxplot

Beryllium, MW-12 (mg/L)



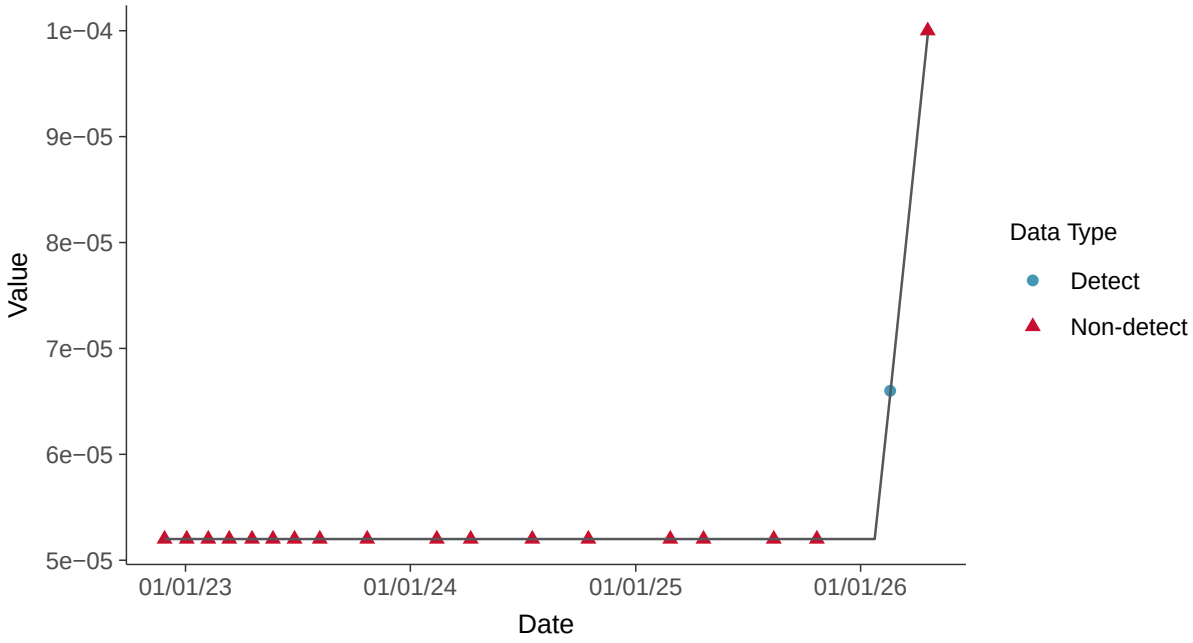
Boxplot by Season

Beryllium, MW-12 (mg/L)



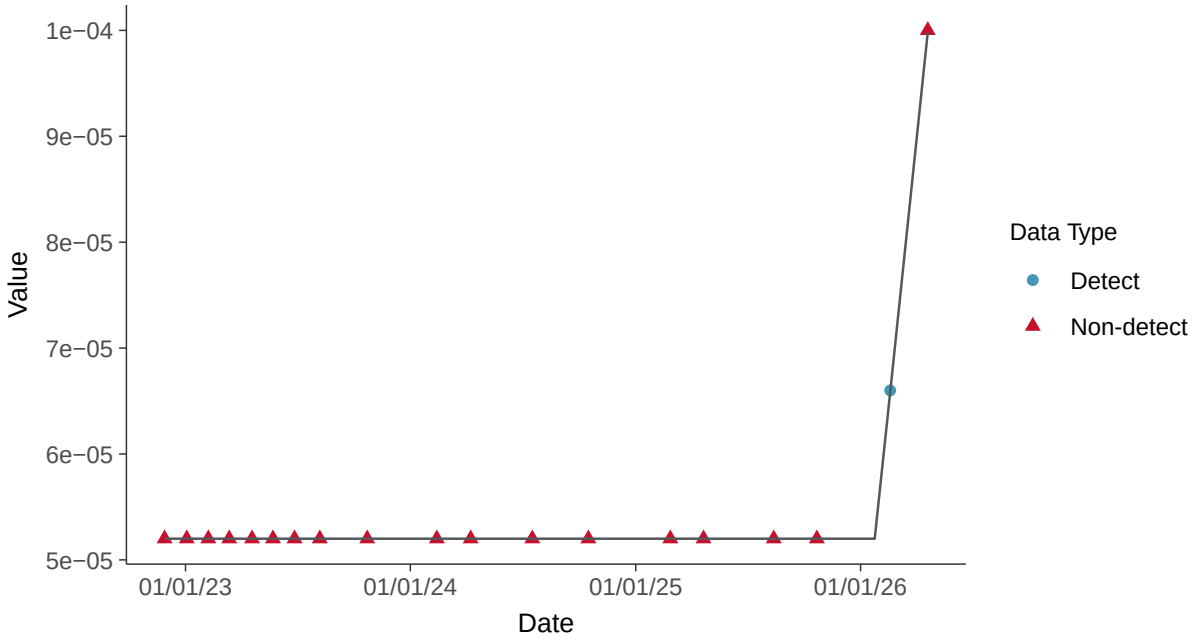
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Beryllium, MW-12 (mg/L)

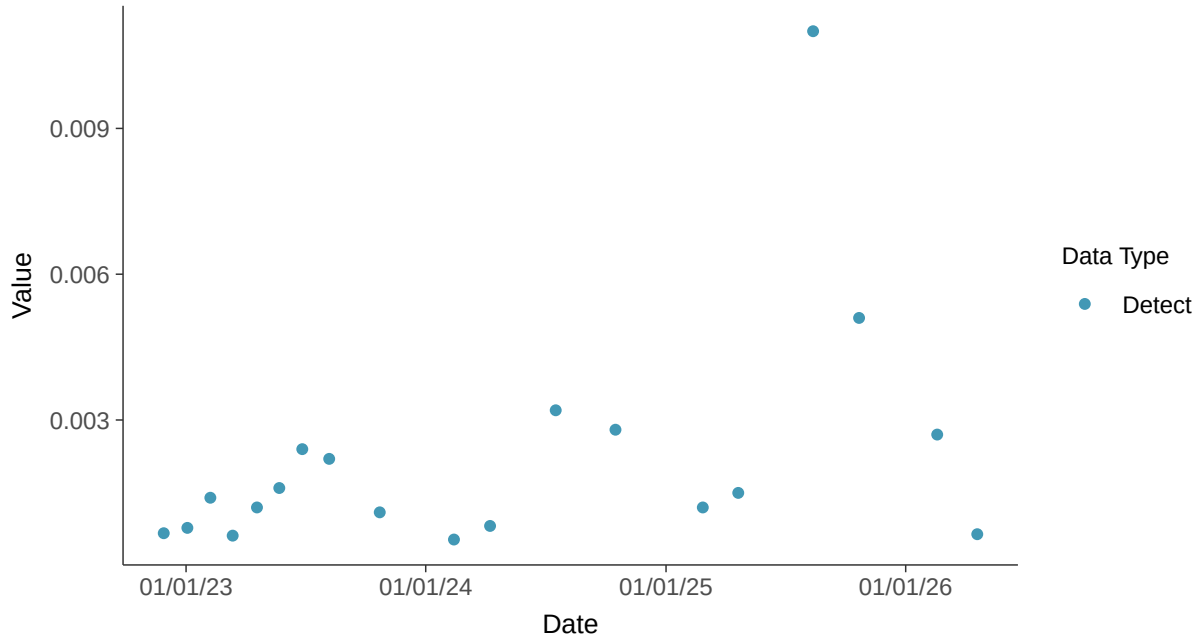


Appendix IV: Cadmium, MW-12

ID: 22_2_4_106

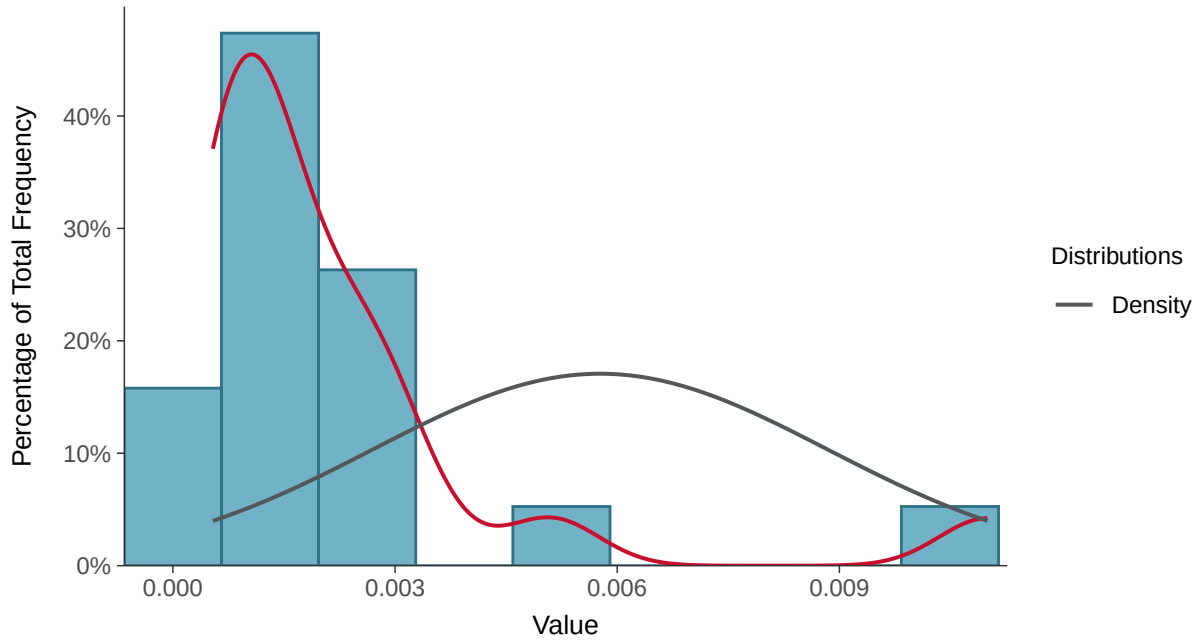
Scatter Plot

Cadmium, MW-12 (mg/L)



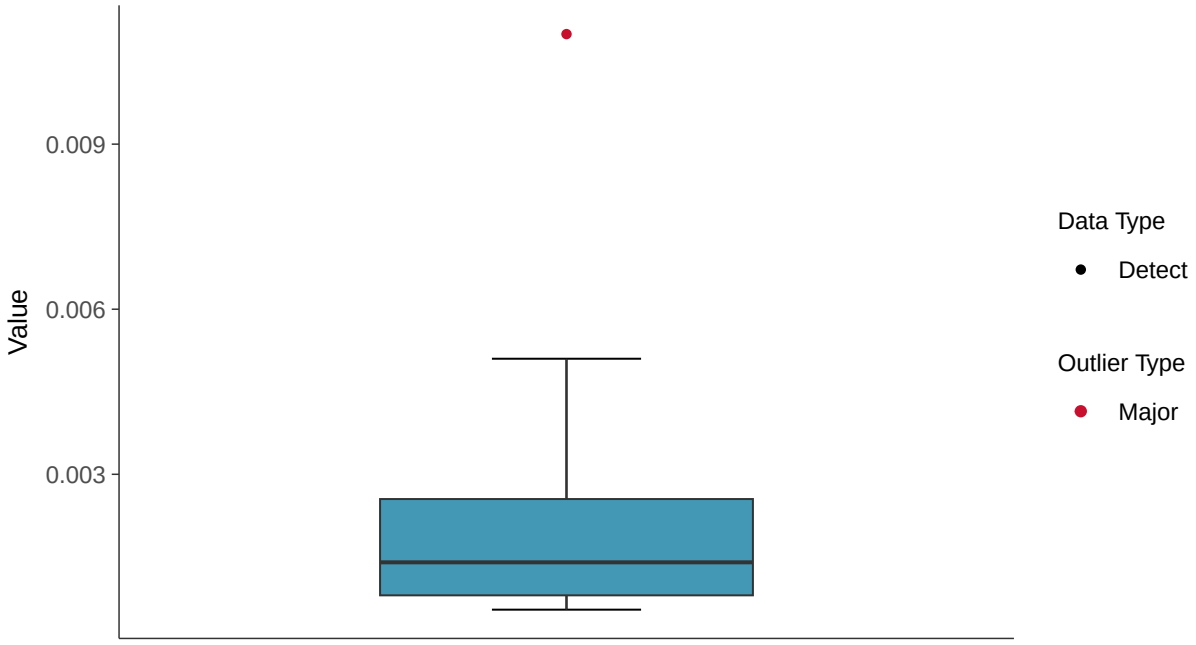
Histogram

Cadmium, MW-12 (mg/L)



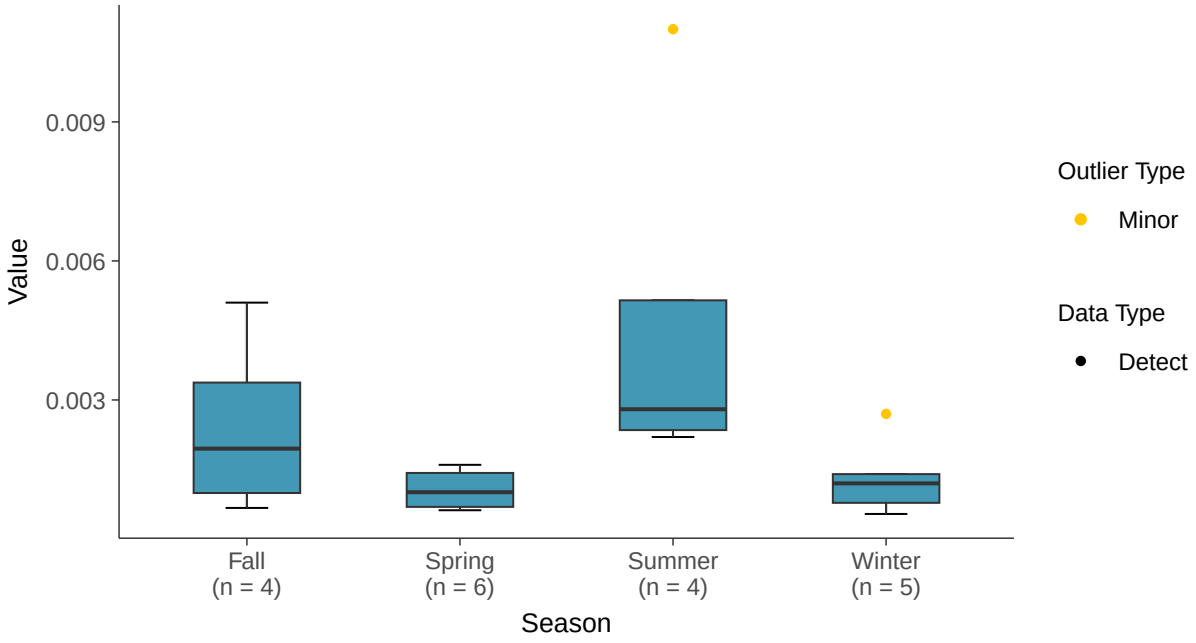
Boxplot

Cadmium, MW-12 (mg/L)



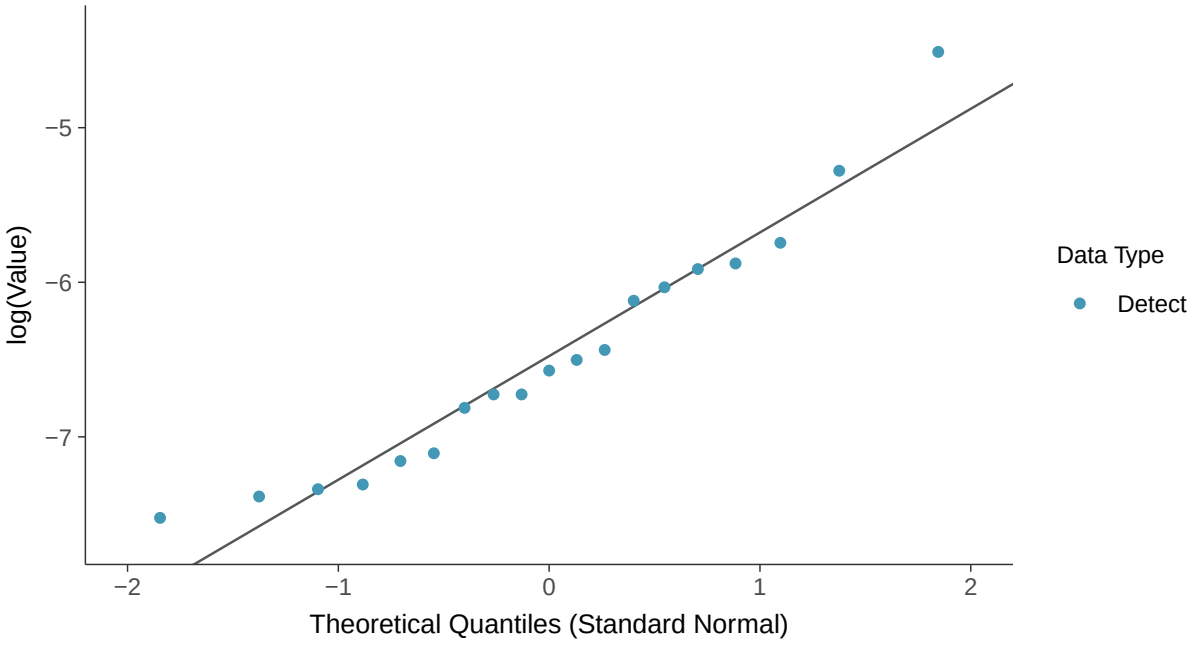
Boxplot by Season

Cadmium, MW-12 (mg/L)



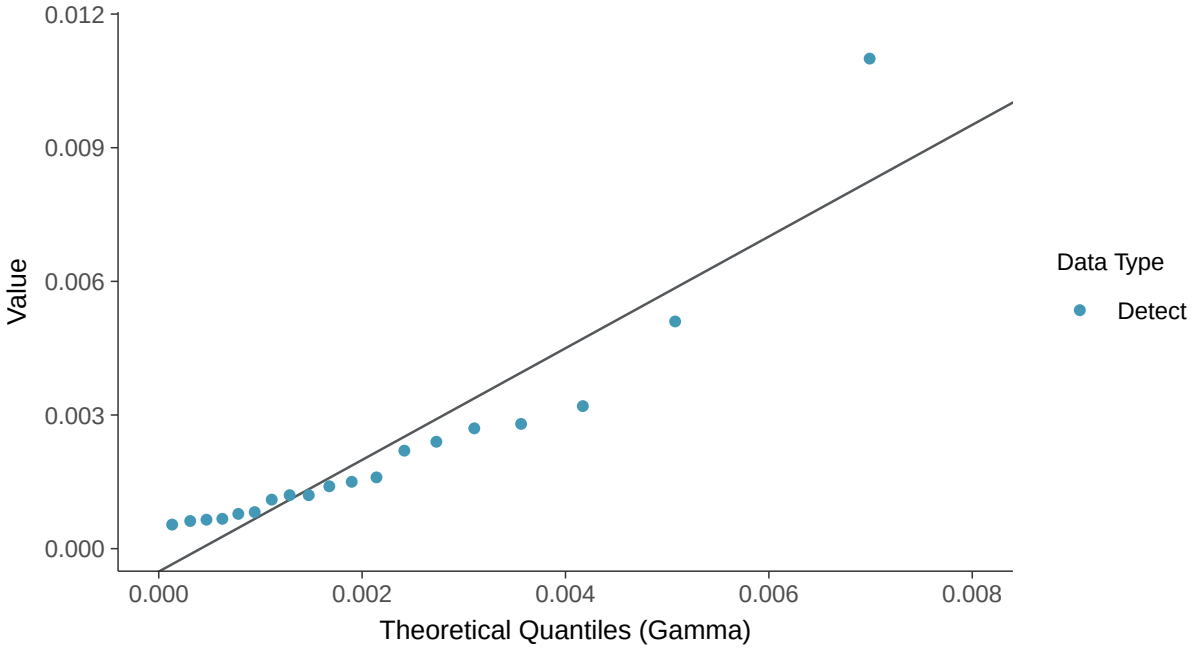
Lognormal Q-Q plot

Cadmium, MW-12 (mg/L)



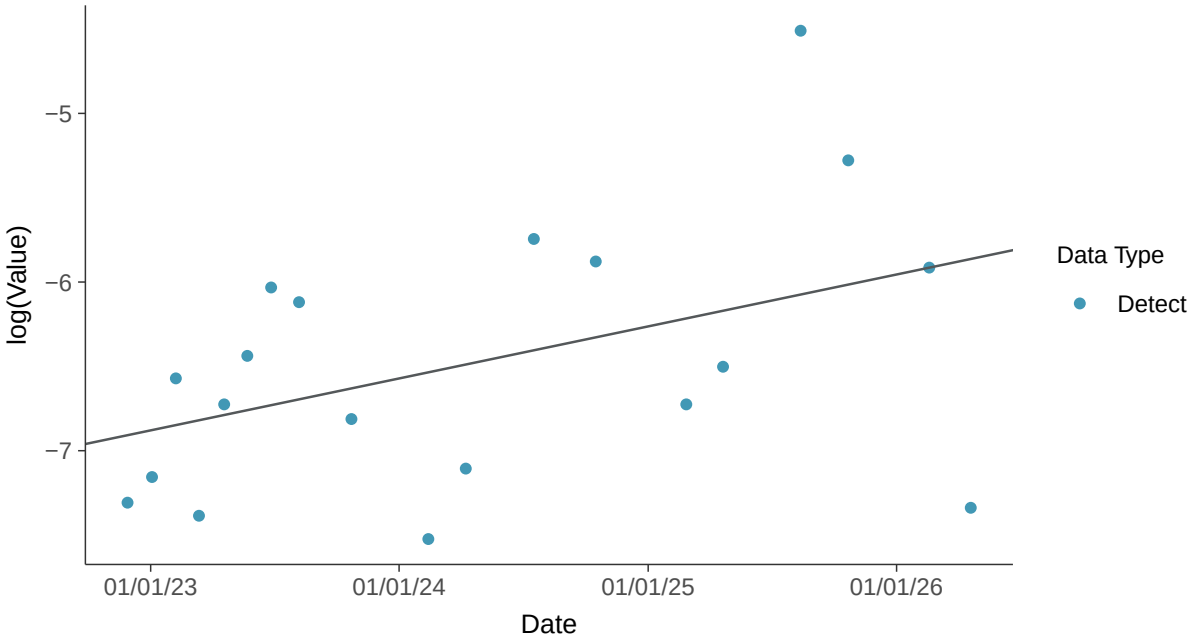
Gamma Q-Q plot

Cadmium, MW-12 (mg/L)



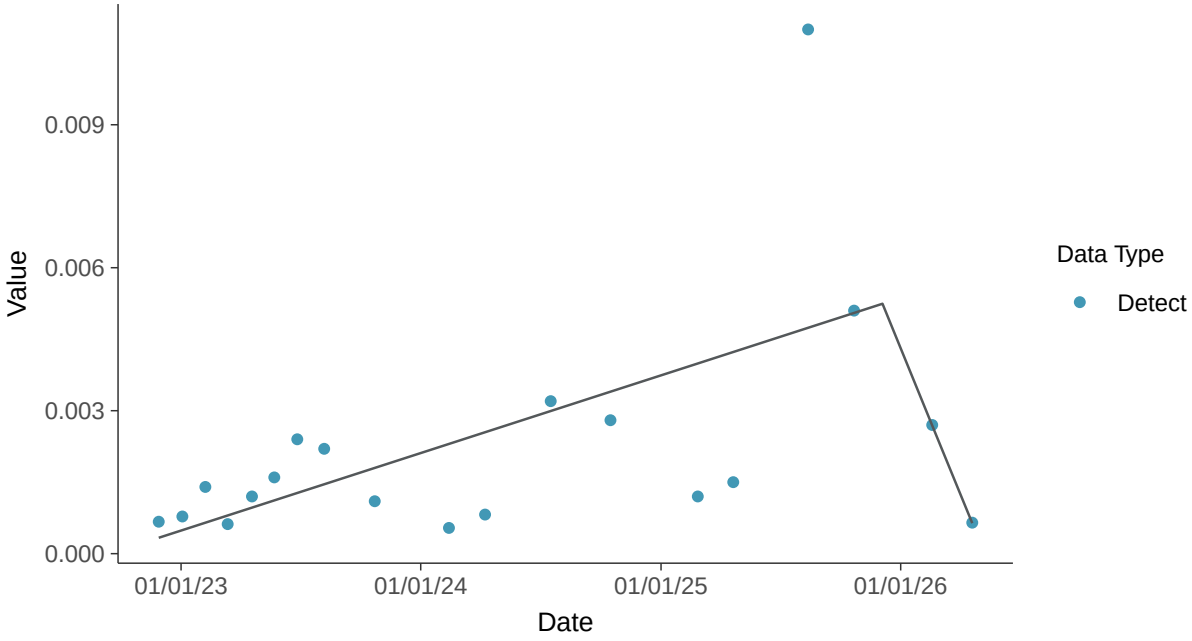
Trend Regression: Lognormal MLE

Cadmium, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-12 (mg/L)

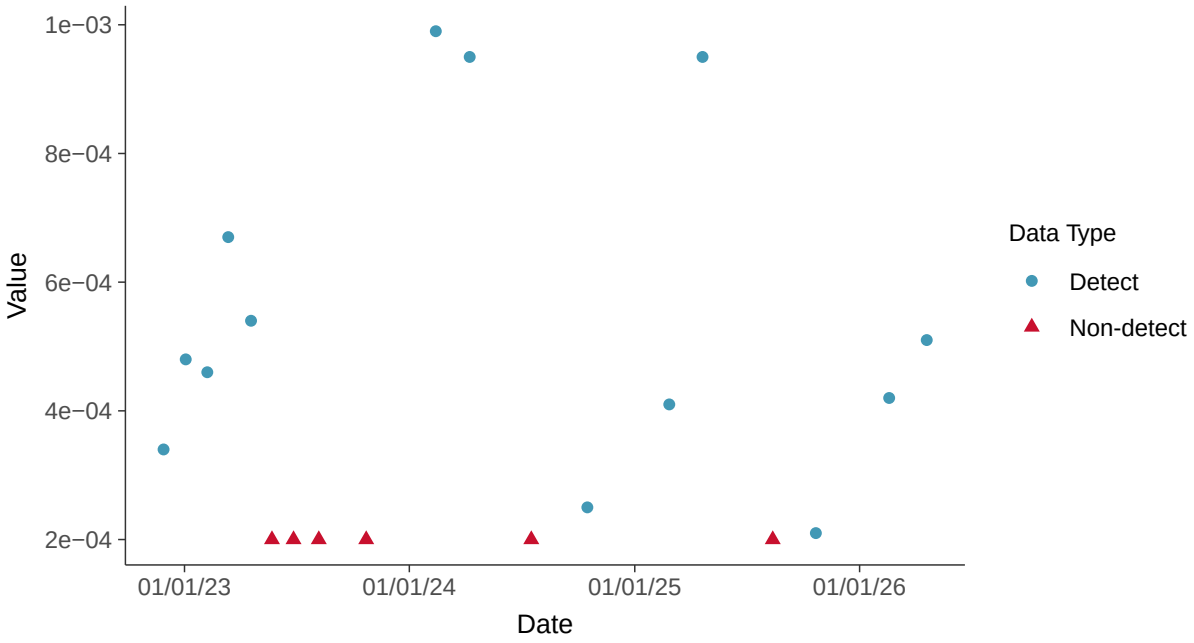


Appendix IV: Chromium, Total, MW-12

ID: 22_2_4_109

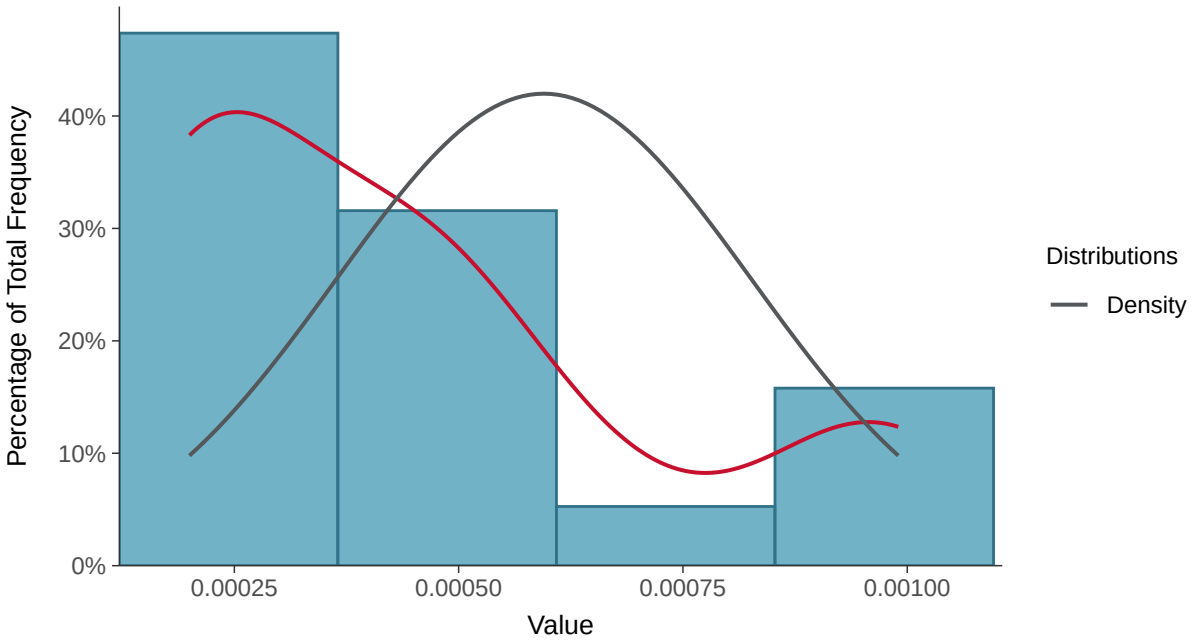
Scatter Plot

Chromium, Total, MW-12 (mg/L)



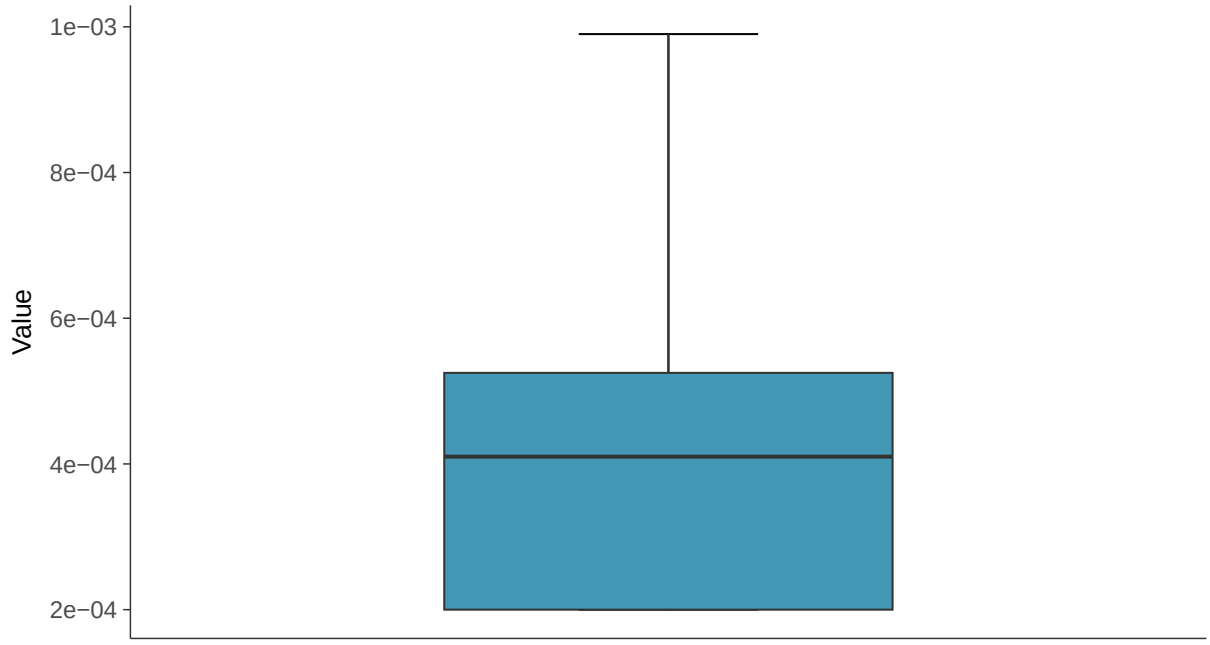
Histogram

Chromium, Total, MW-12 (mg/L)



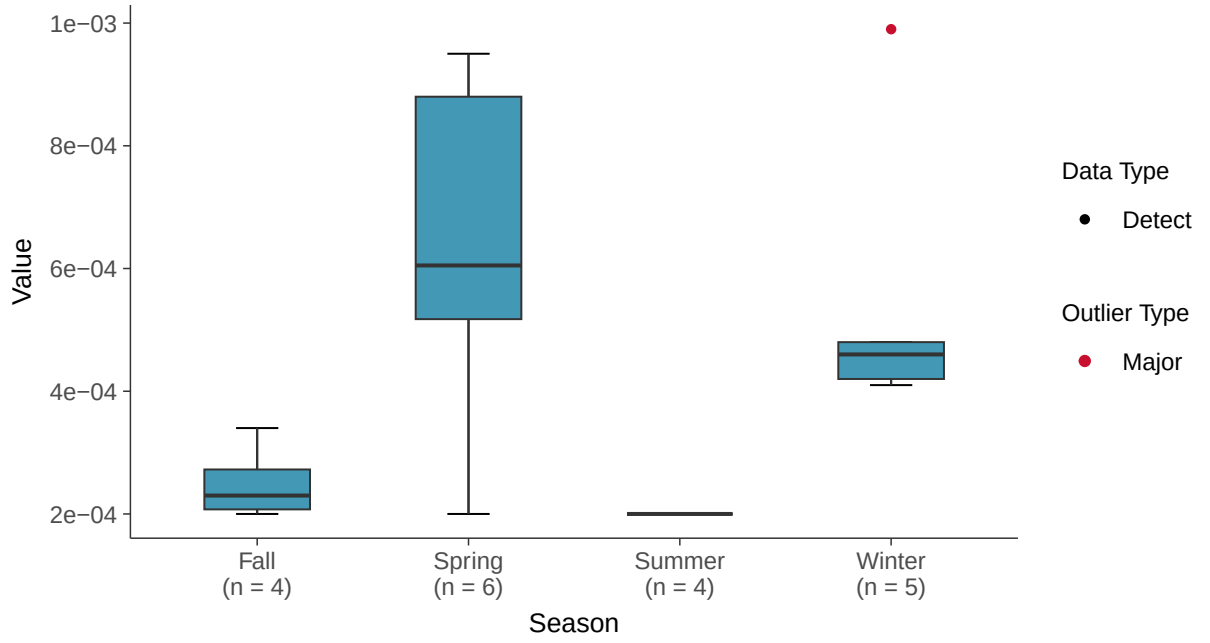
Boxplot

Chromium, Total, MW-12 (mg/L)



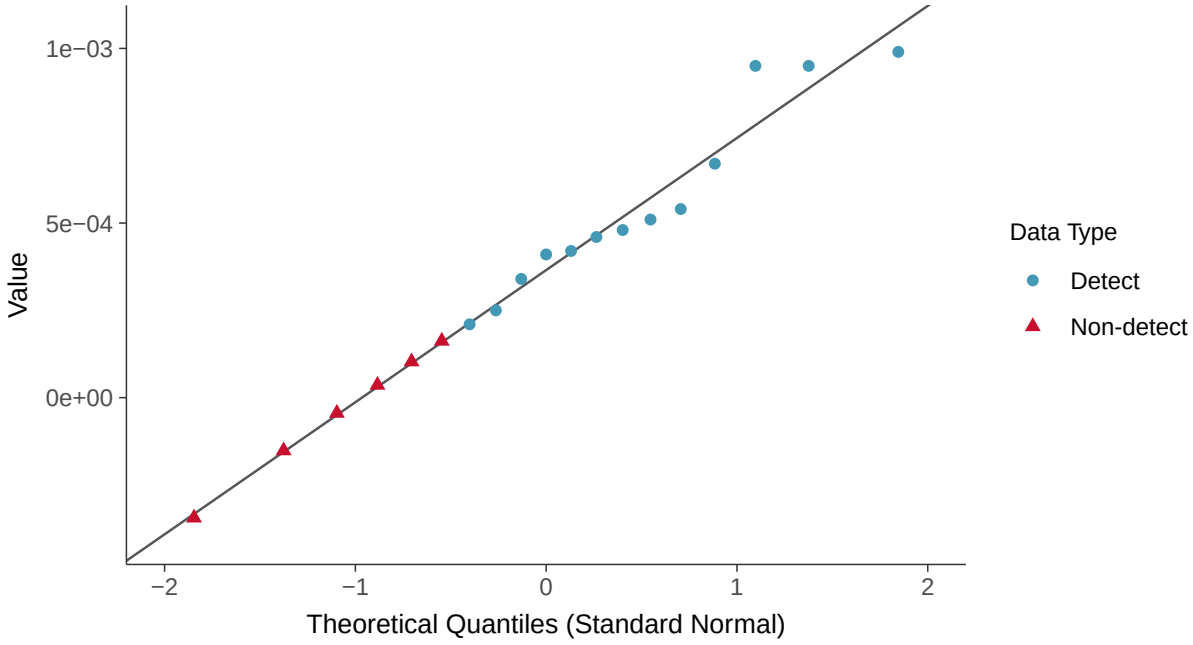
Boxplot by Season

Chromium, Total, MW-12 (mg/L)



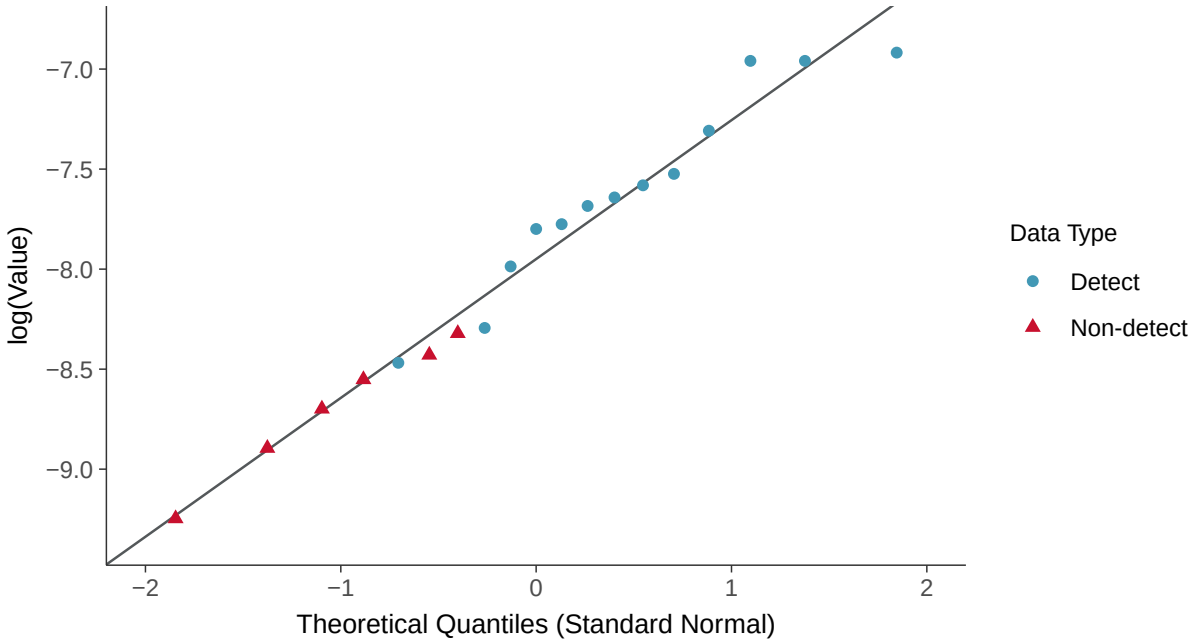
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



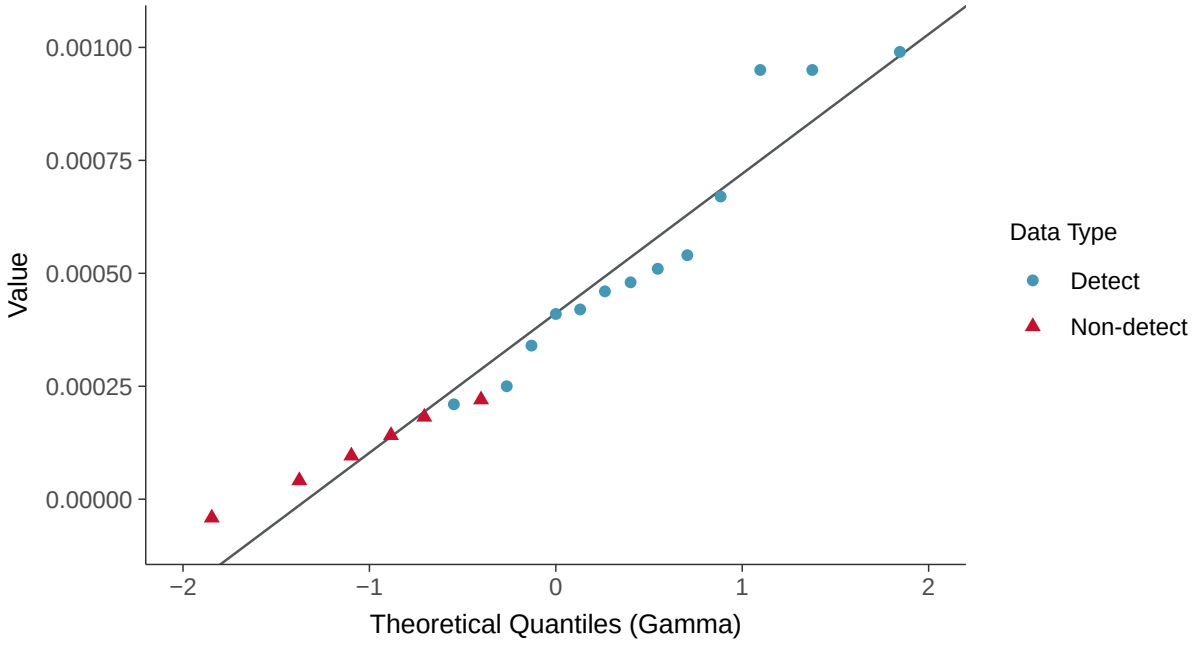
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



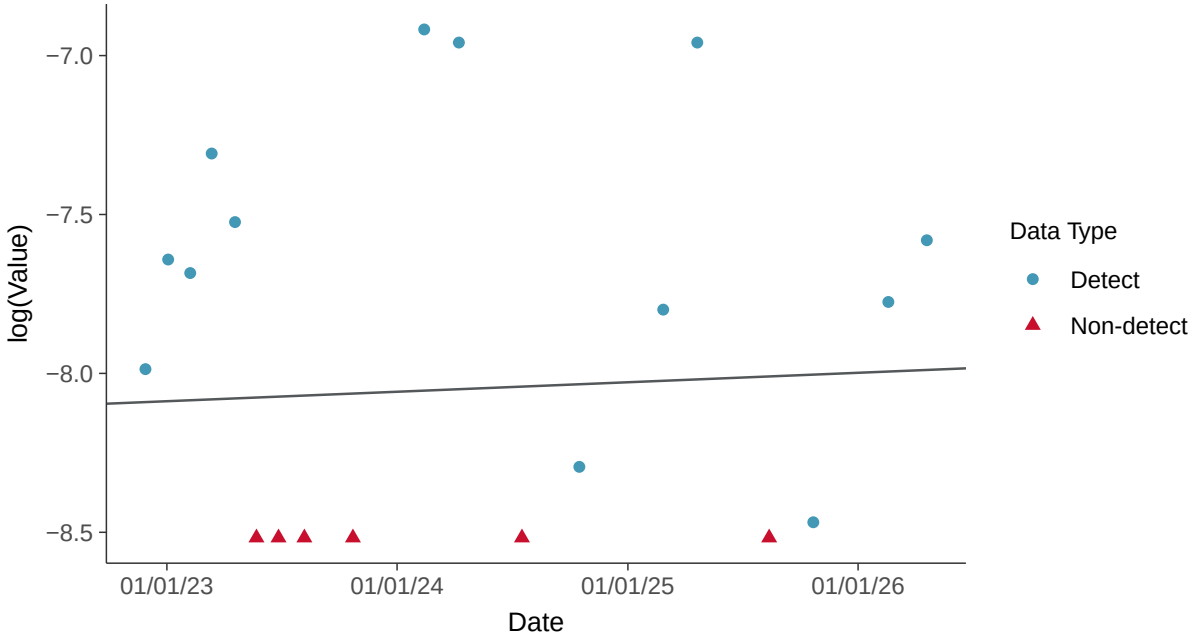
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-12 (mg/L)



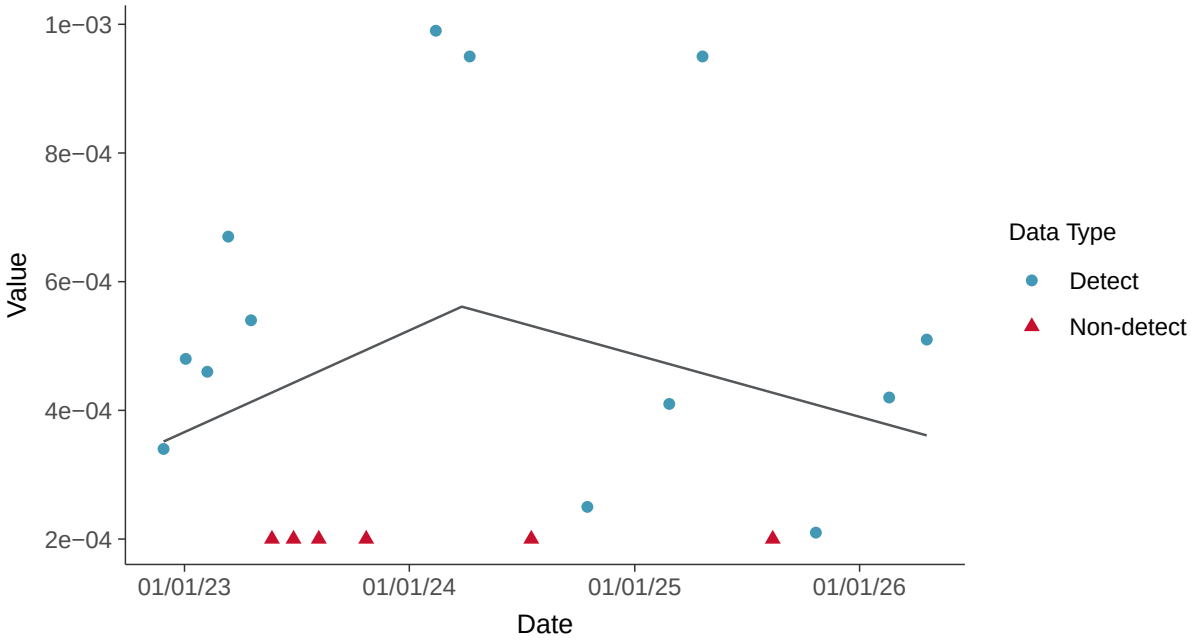
Trend Regression: Lognormal MLE

Chromium, Total, MW-12 (mg/L)



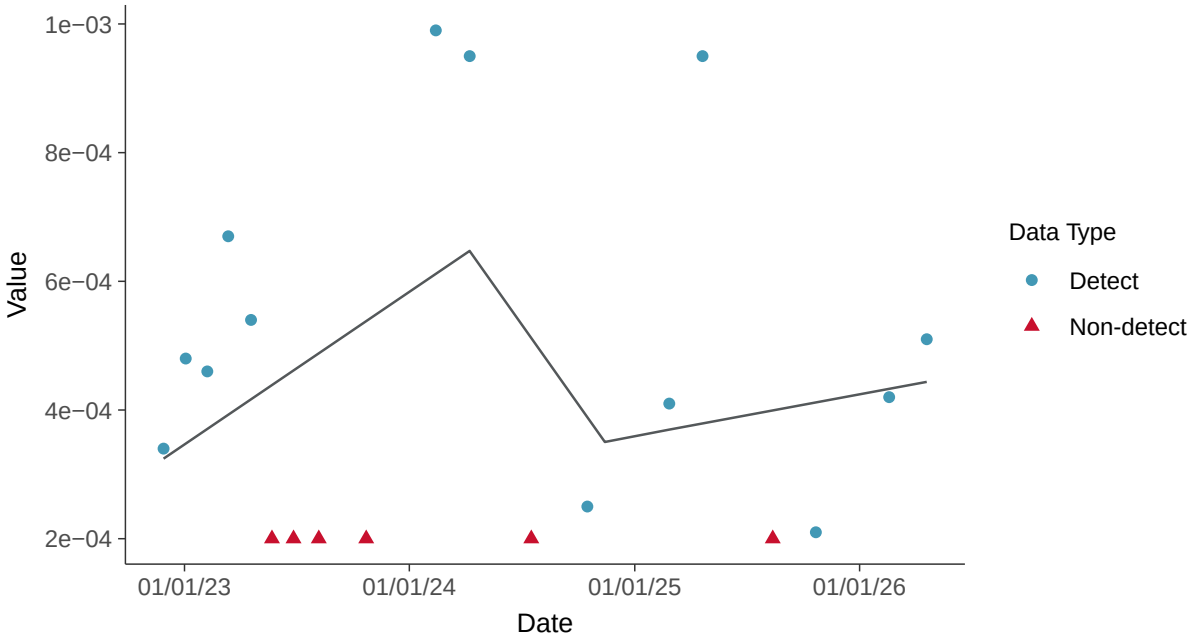
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-12 (mg/L)

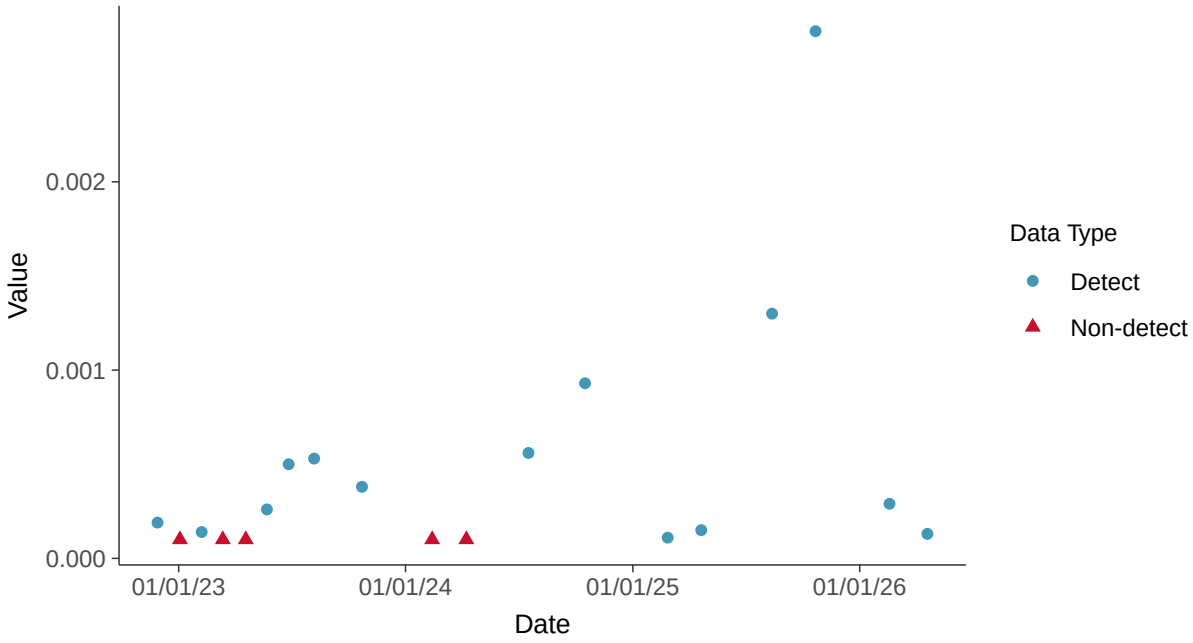


Appendix IV: Cobalt, MW-12

ID: 22_2_4_110

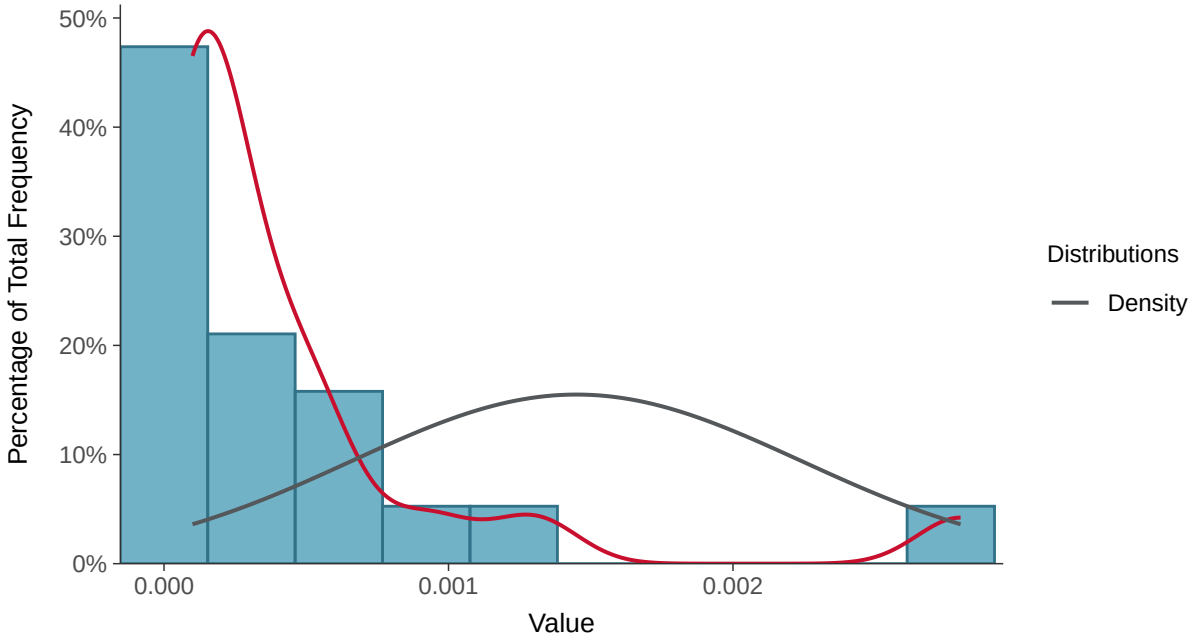
Scatter Plot

Cobalt, MW-12 (mg/L)



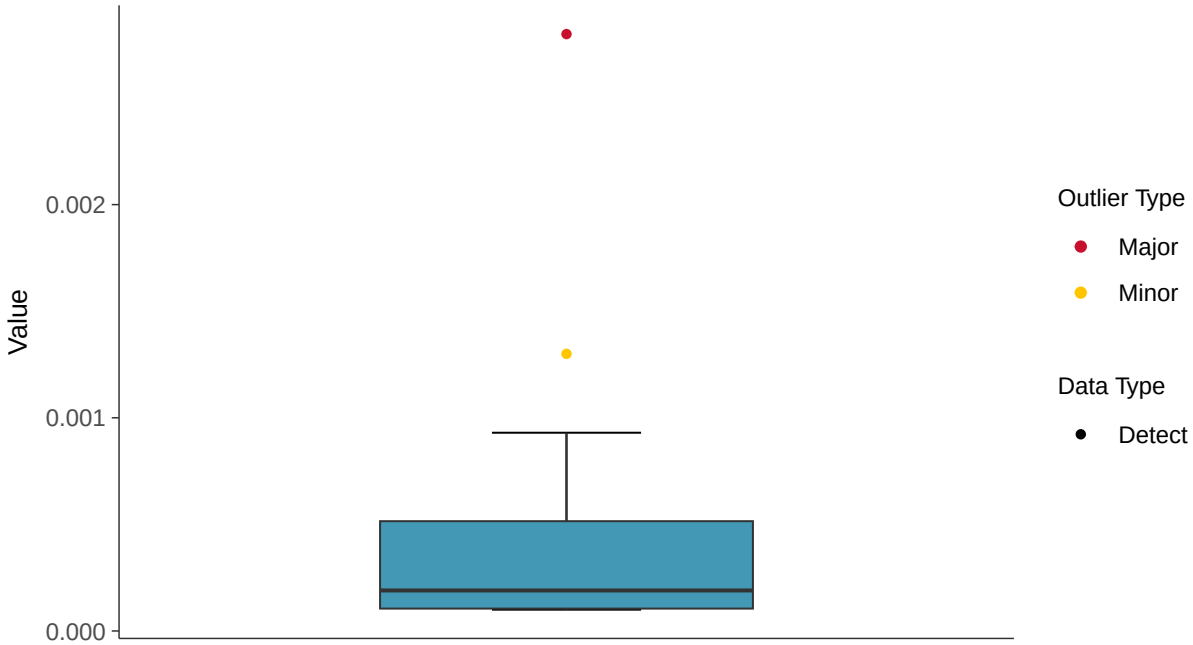
Histogram

Cobalt, MW-12 (mg/L)



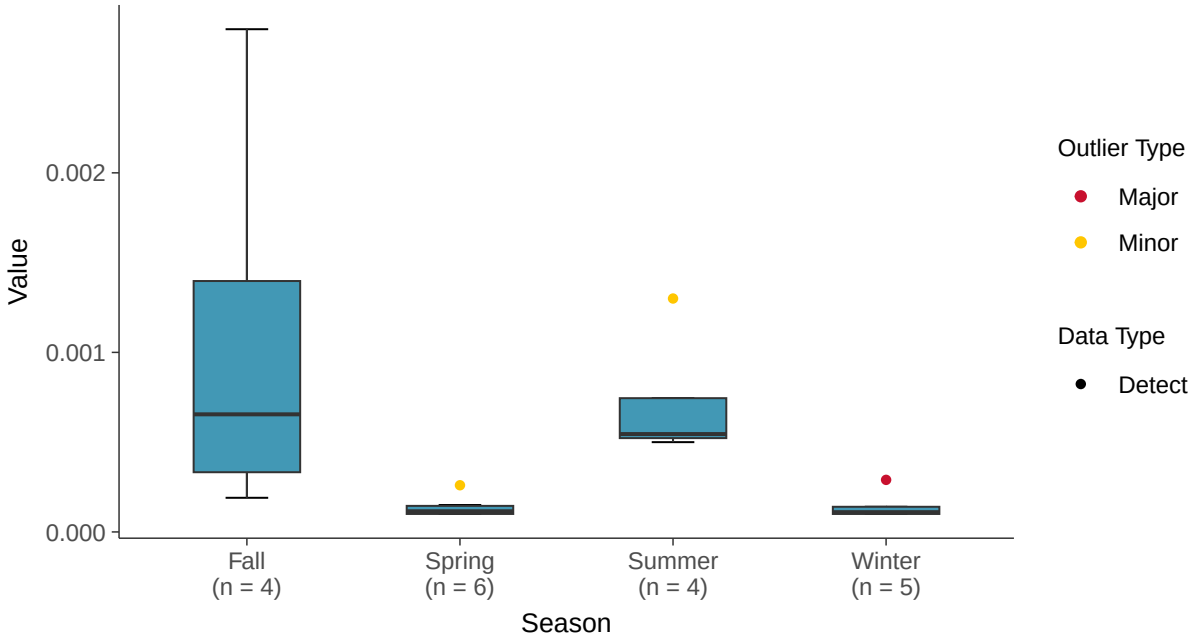
Boxplot

Cobalt, MW-12 (mg/L)



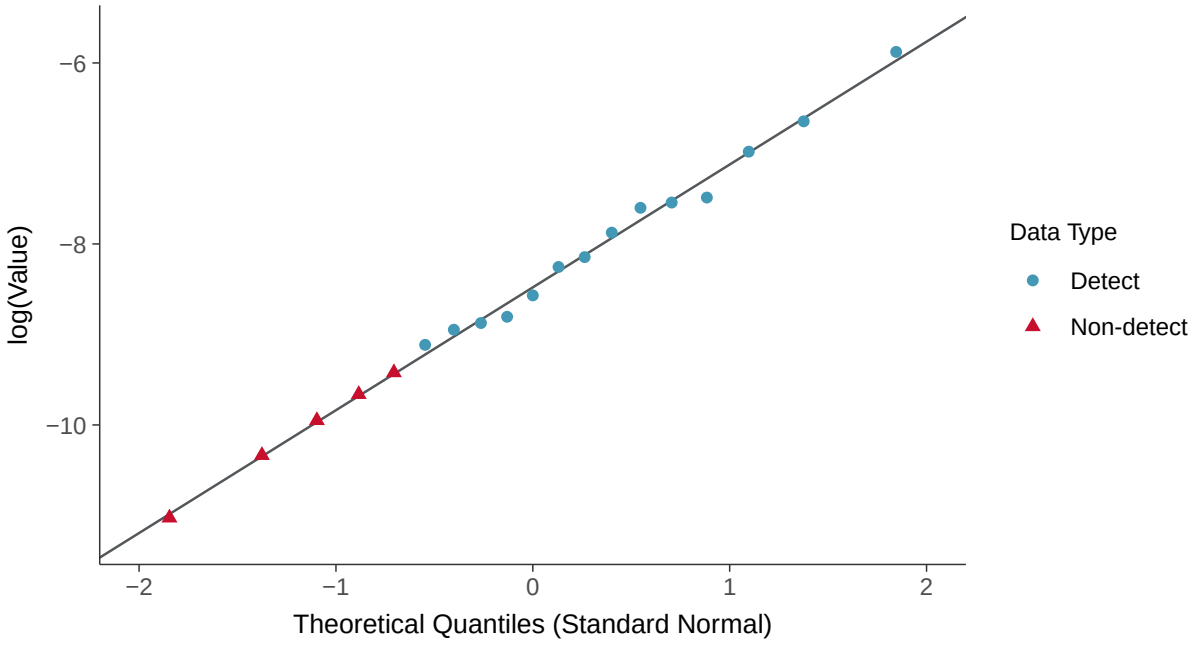
Boxplot by Season

Cobalt, MW-12 (mg/L)



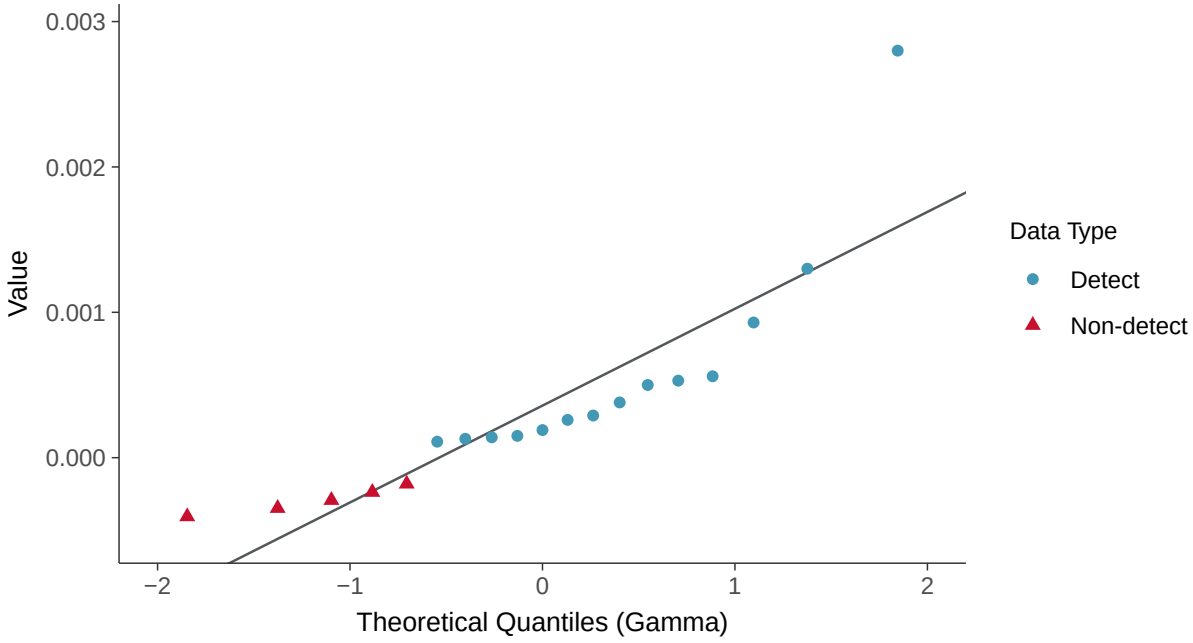
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



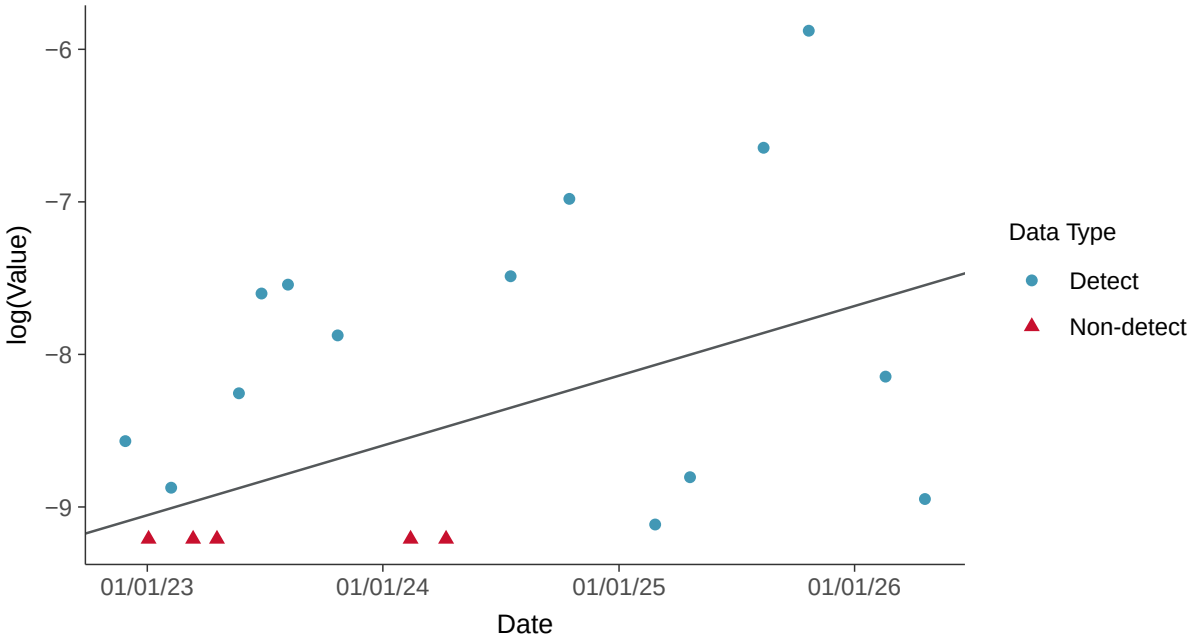
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-12 (mg/L)



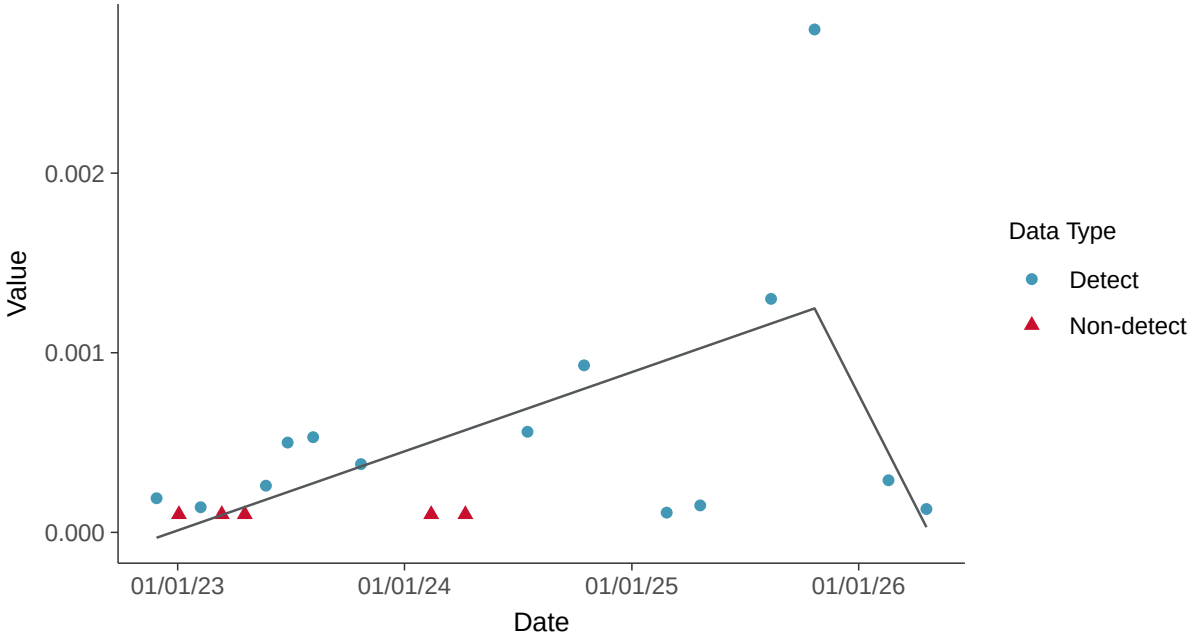
Trend Regression: Lognormal MLE

Cobalt, MW-12 (mg/L)



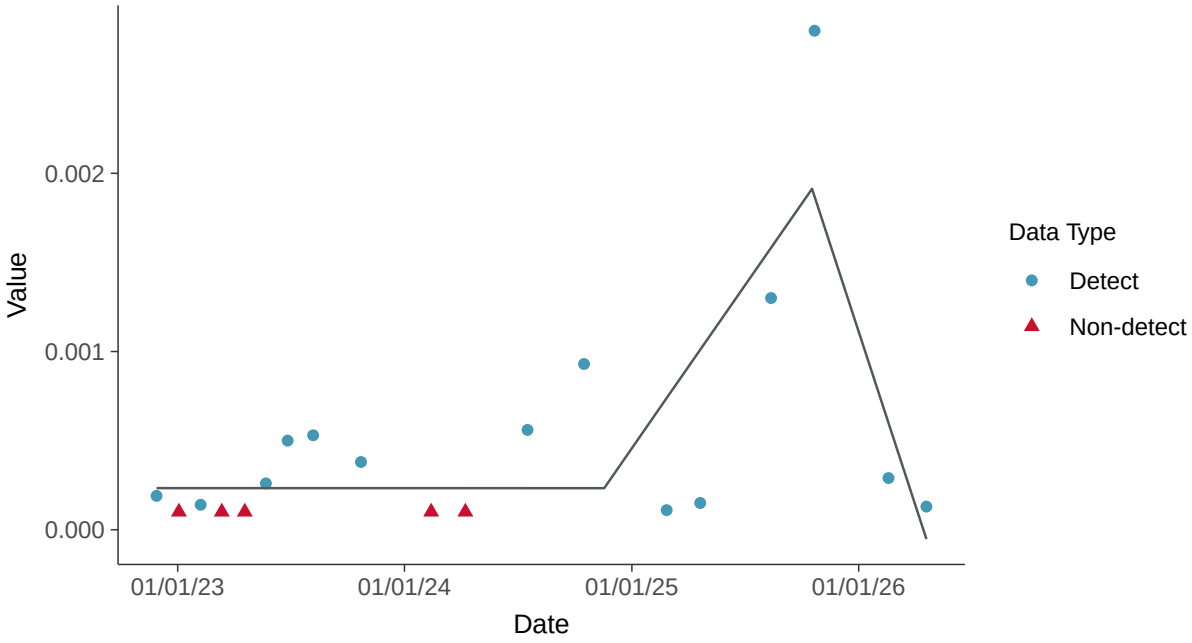
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-12 (mg/L)

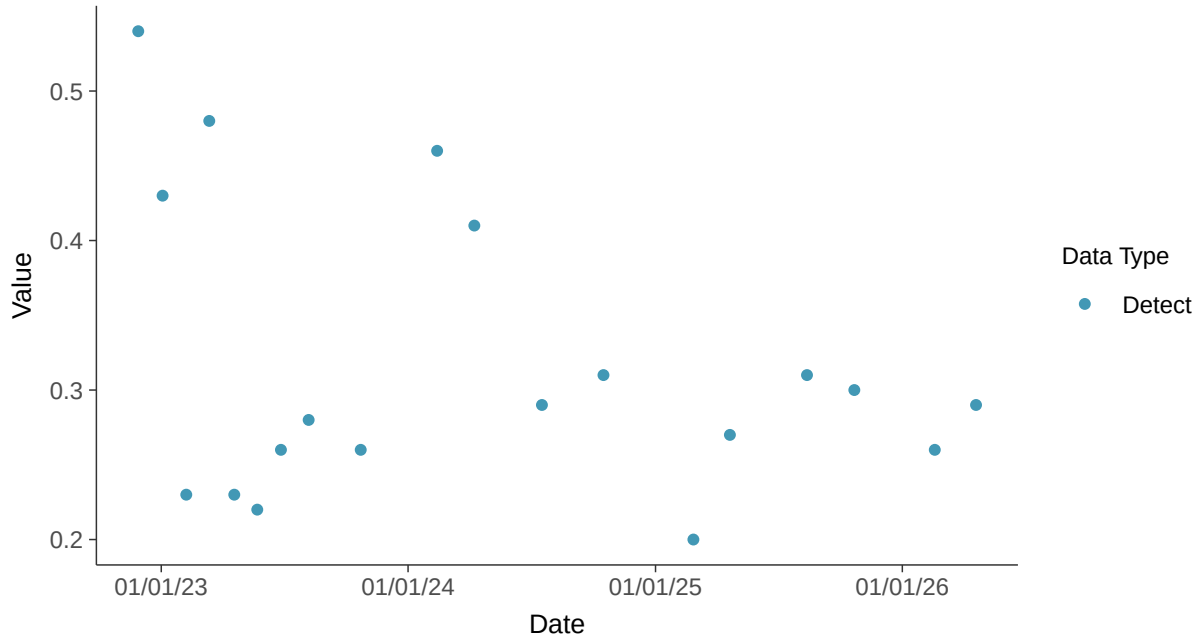


Appendix IV: Fluoride (App IV), MW-12

ID: 22_2_4_113

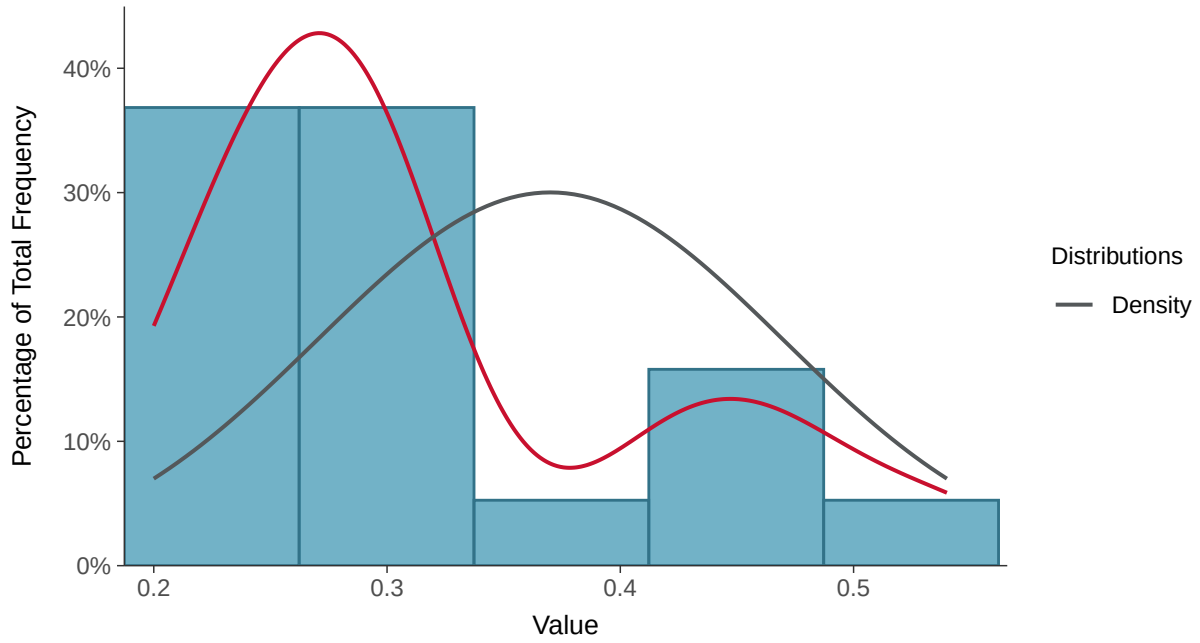
Scatter Plot

Fluoride (App IV), MW-12 (mg/L)



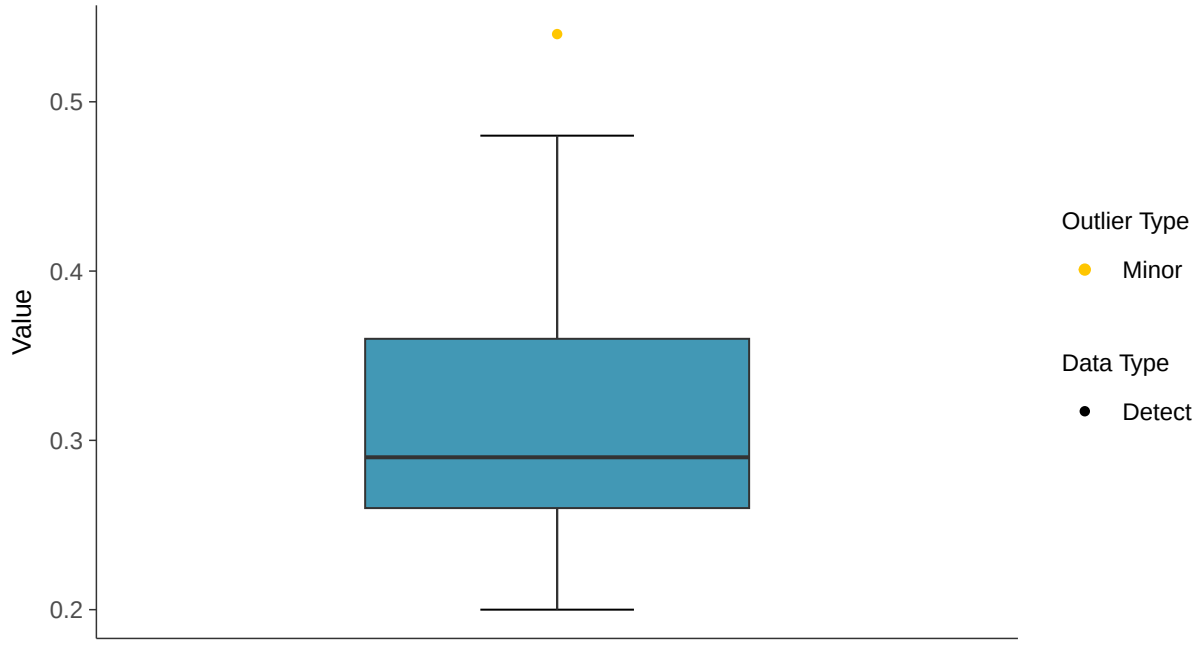
Histogram

Fluoride (App IV), MW-12 (mg/L)



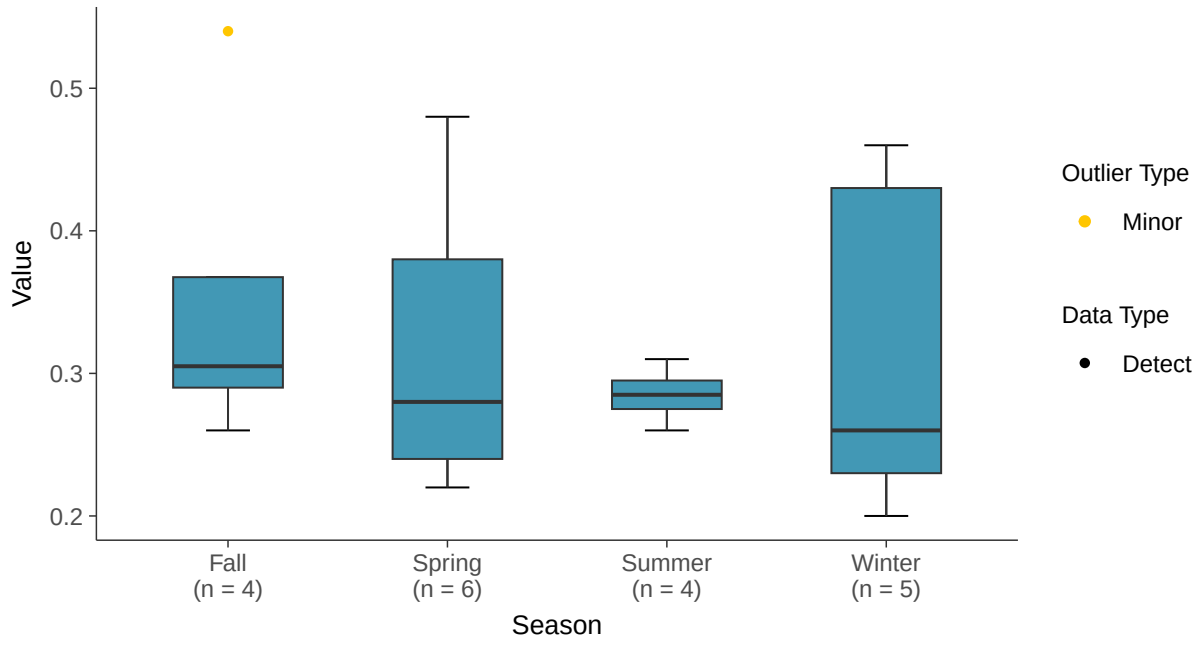
Boxplot

Fluoride (App IV), MW-12 (mg/L)



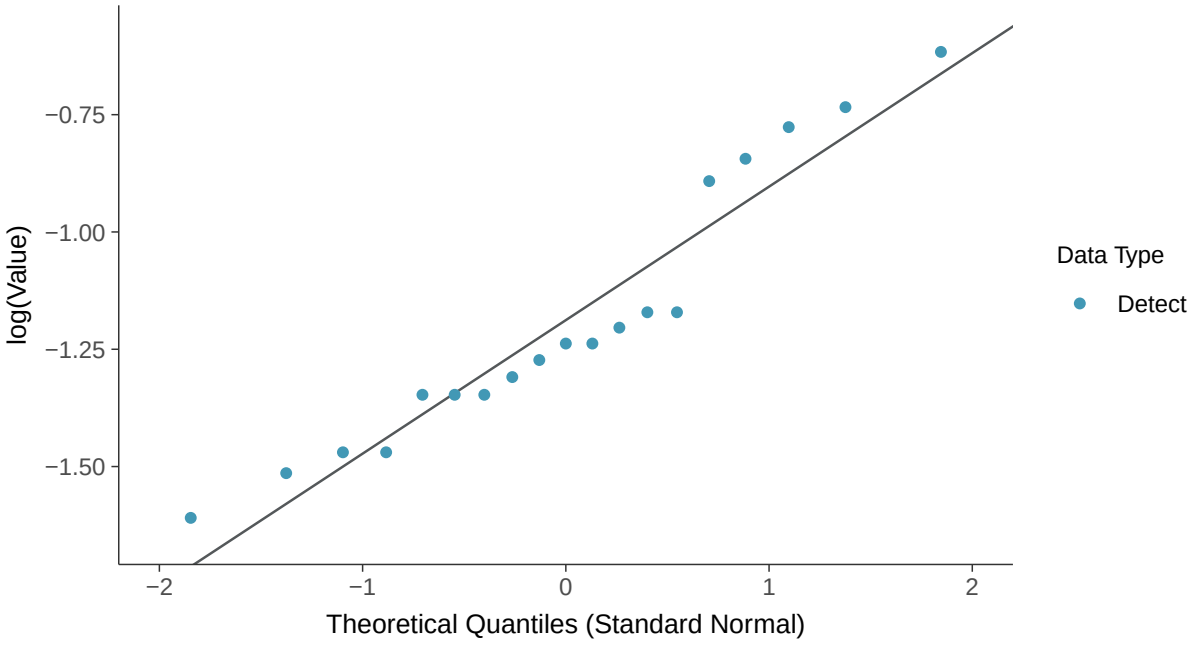
Boxplot by Season

Fluoride (App IV), MW-12 (mg/L)



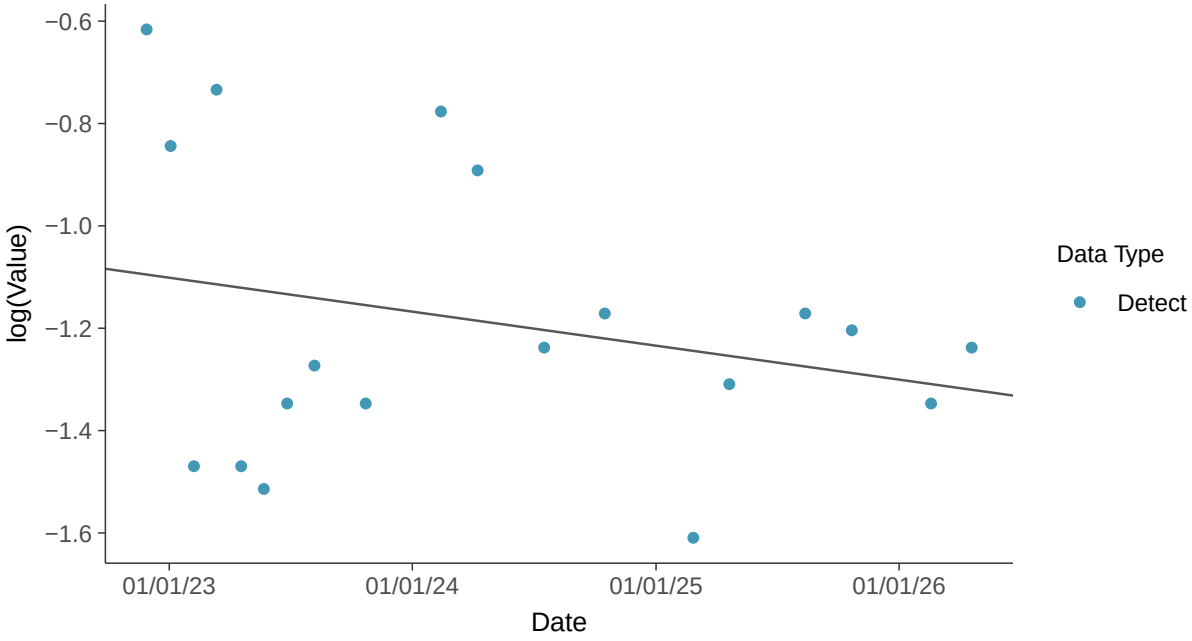
Lognormal Q-Q plot

Fluoride (App IV), MW-12 (mg/L)



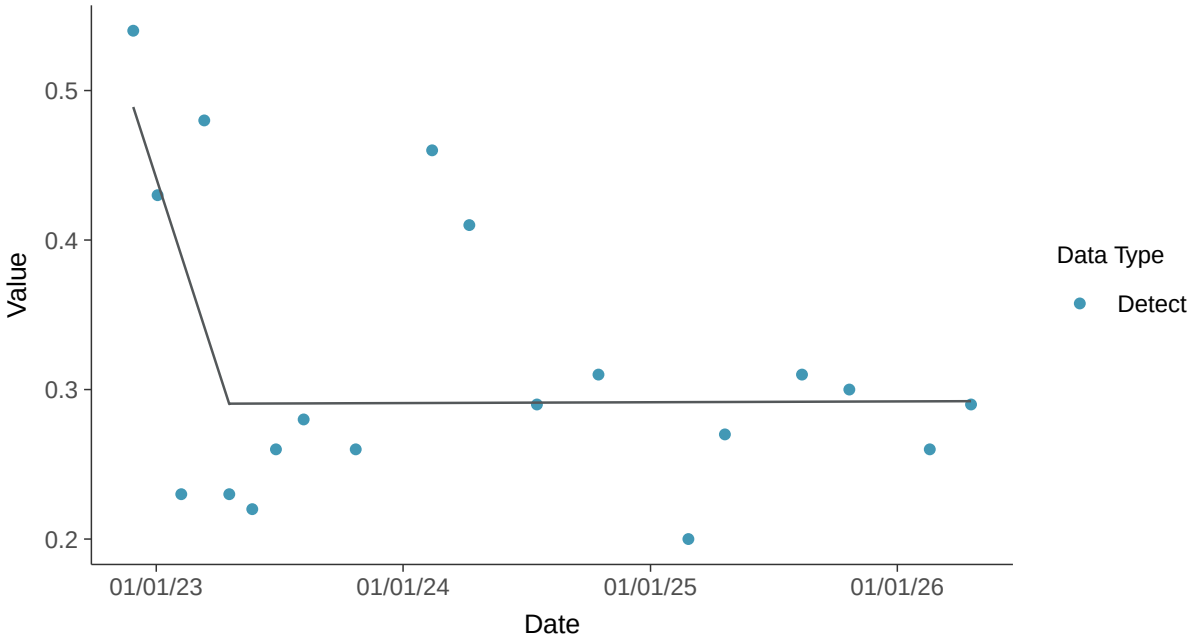
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-12 (mg/L)



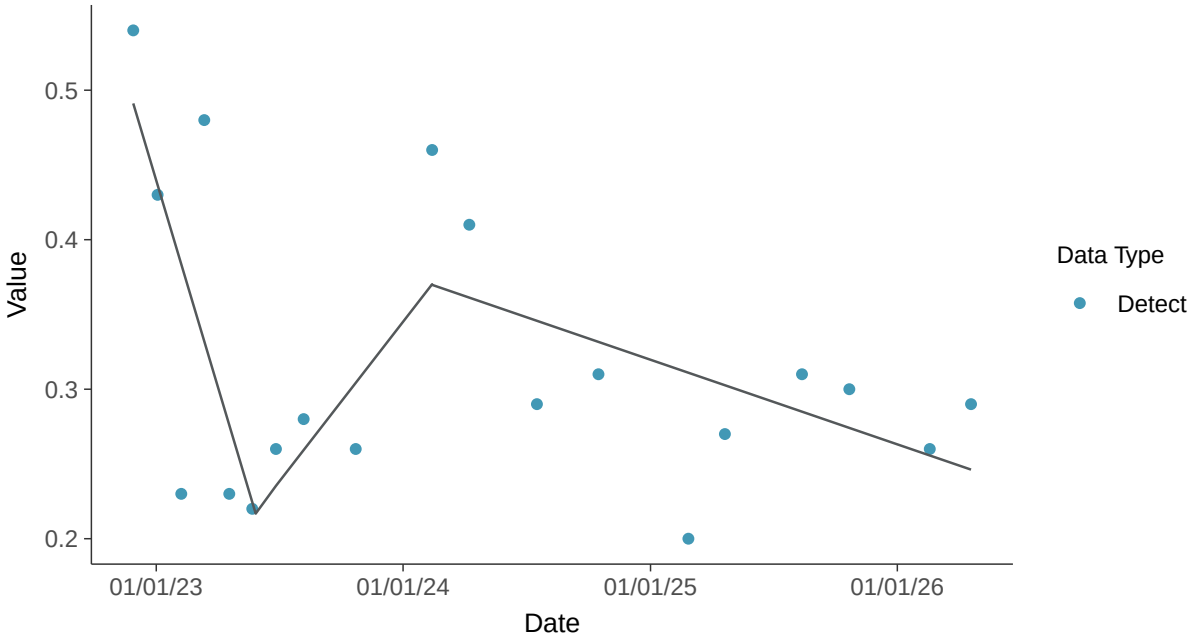
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-12 (mg/L)



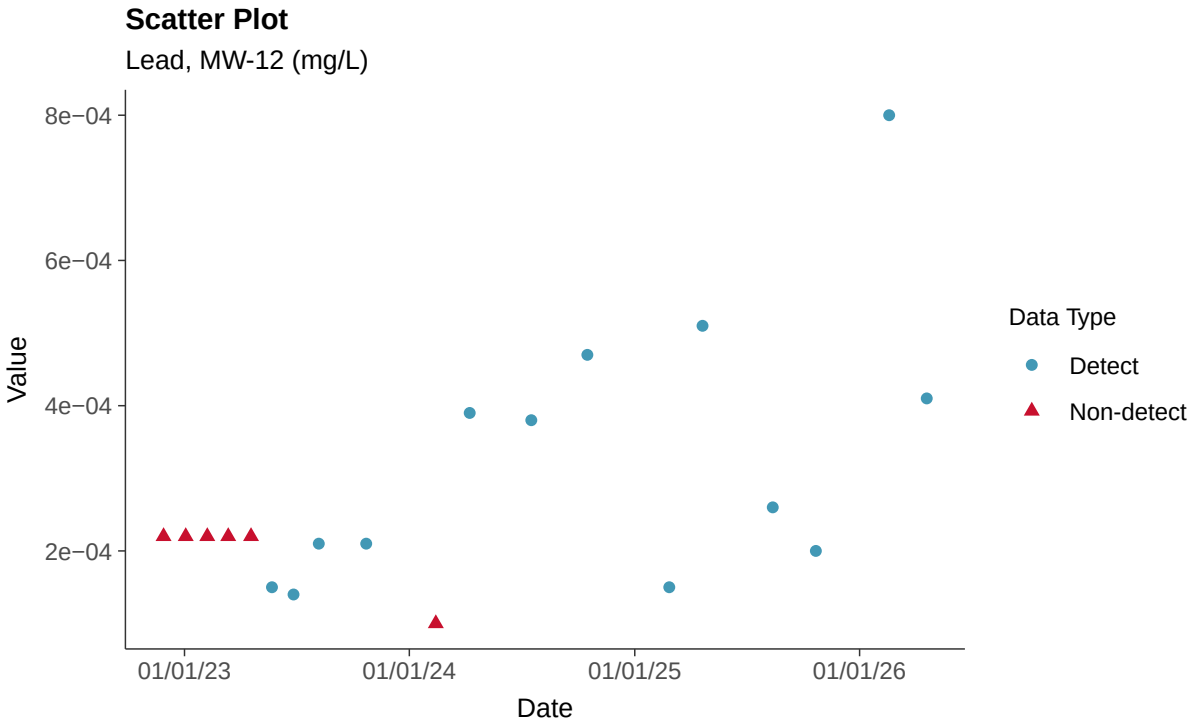
Trend Regression: Piecewise Linear-Linear-Linear

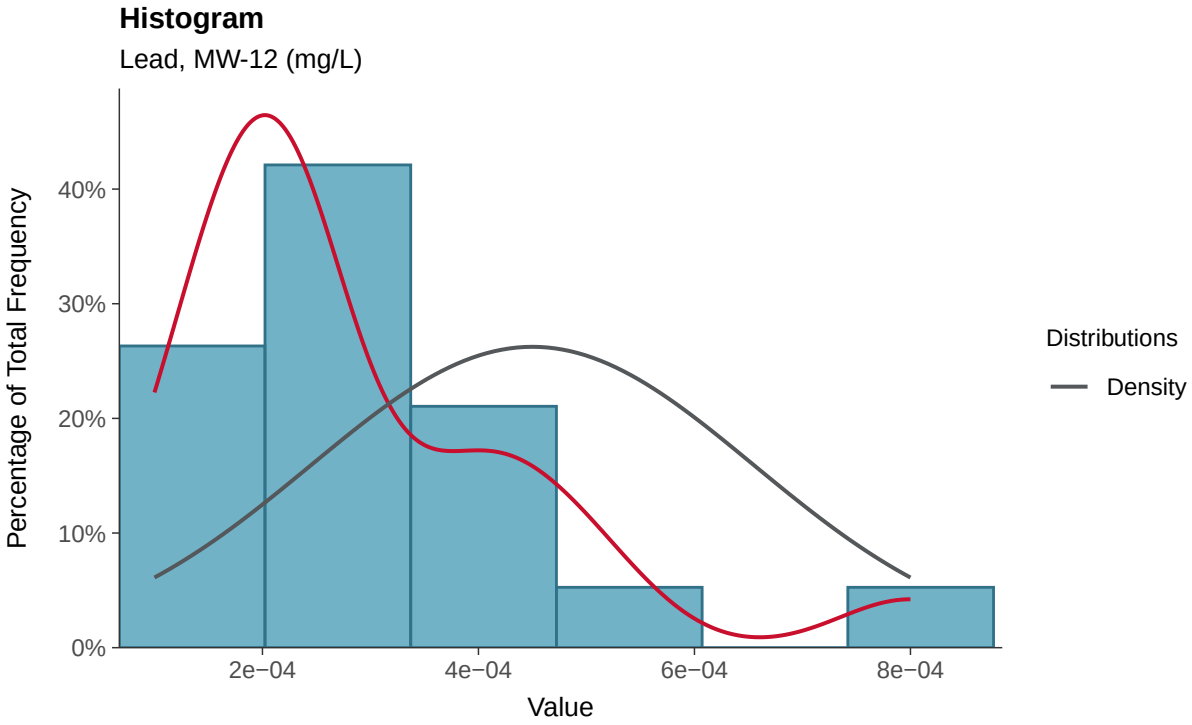
Fluoride (App IV), MW-12 (mg/L)



Appendix IV: Lead, MW-12

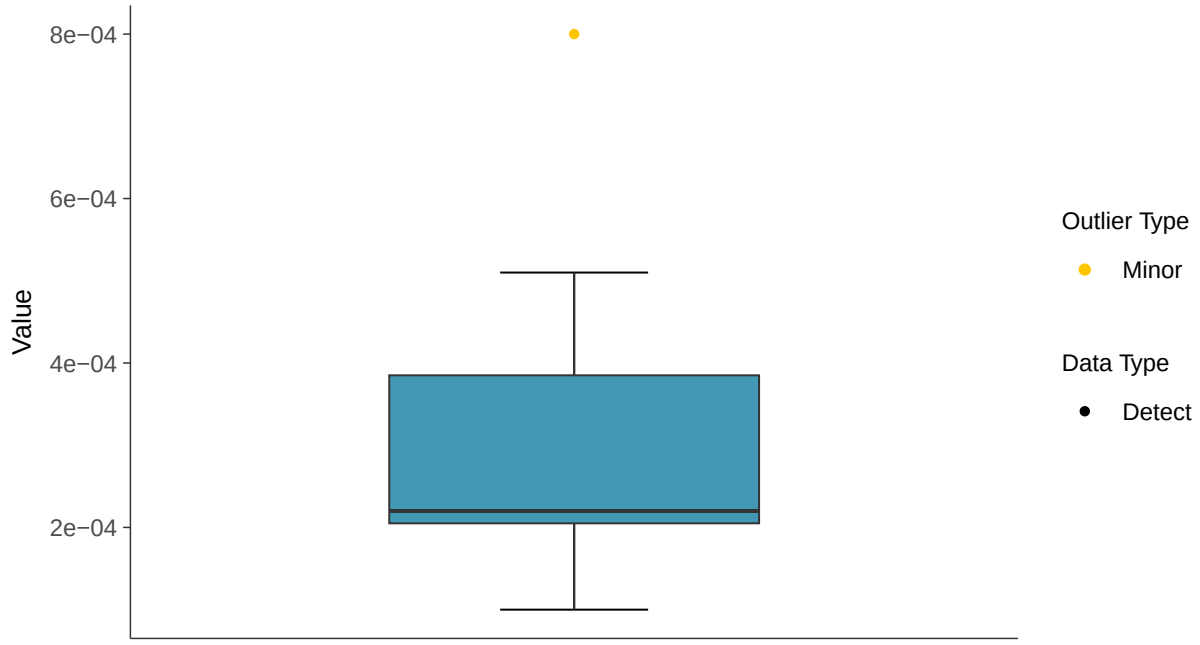
ID: 22_2_4_115





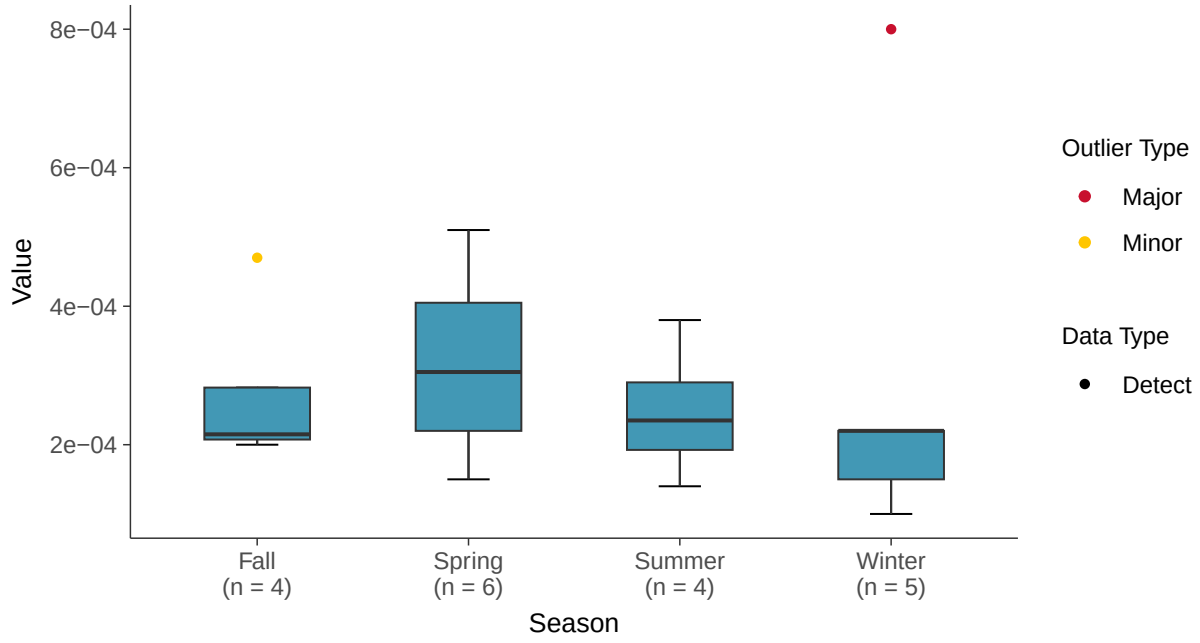
Boxplot

Lead, MW-12 (mg/L)



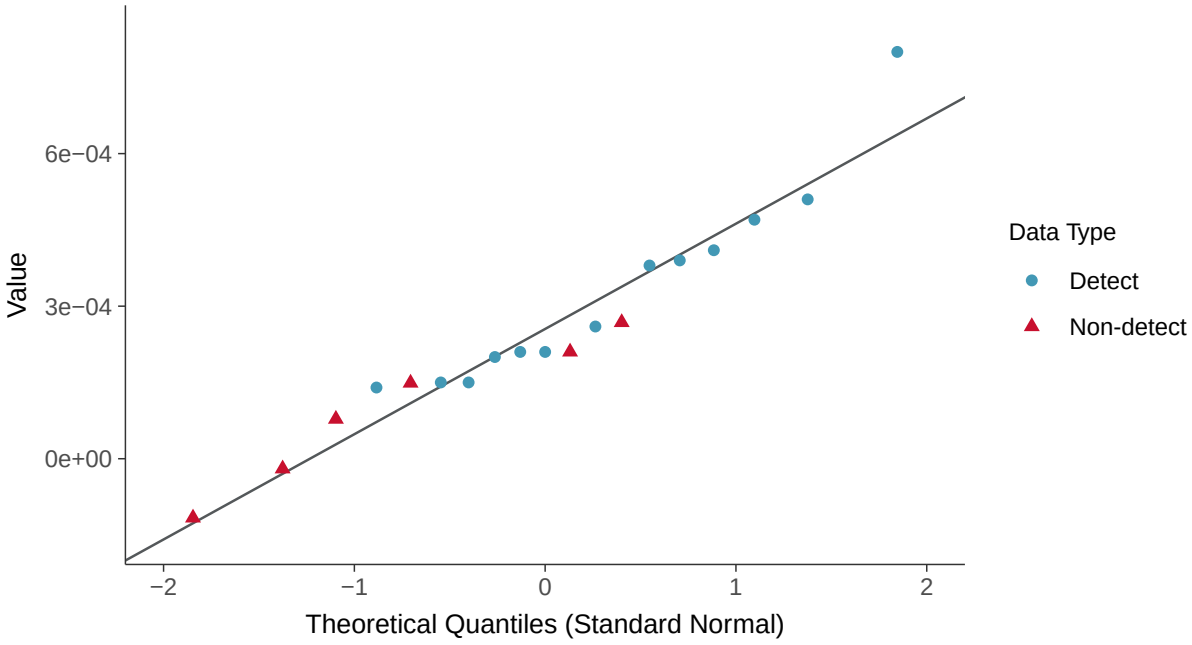
Boxplot by Season

Lead, MW-12 (mg/L)



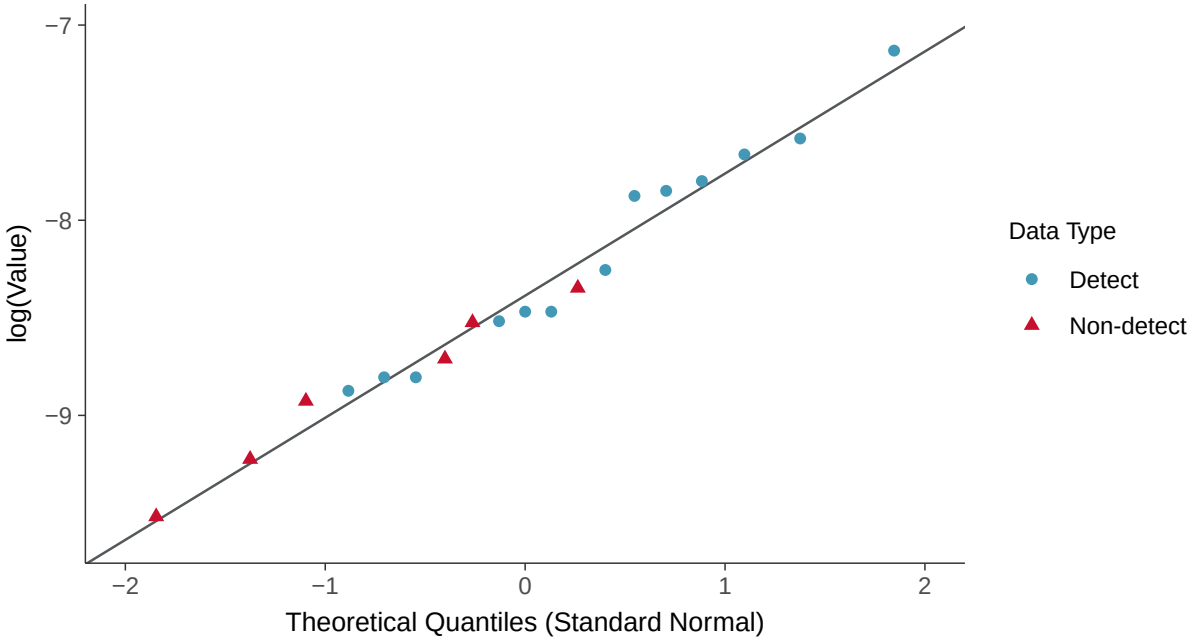
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)



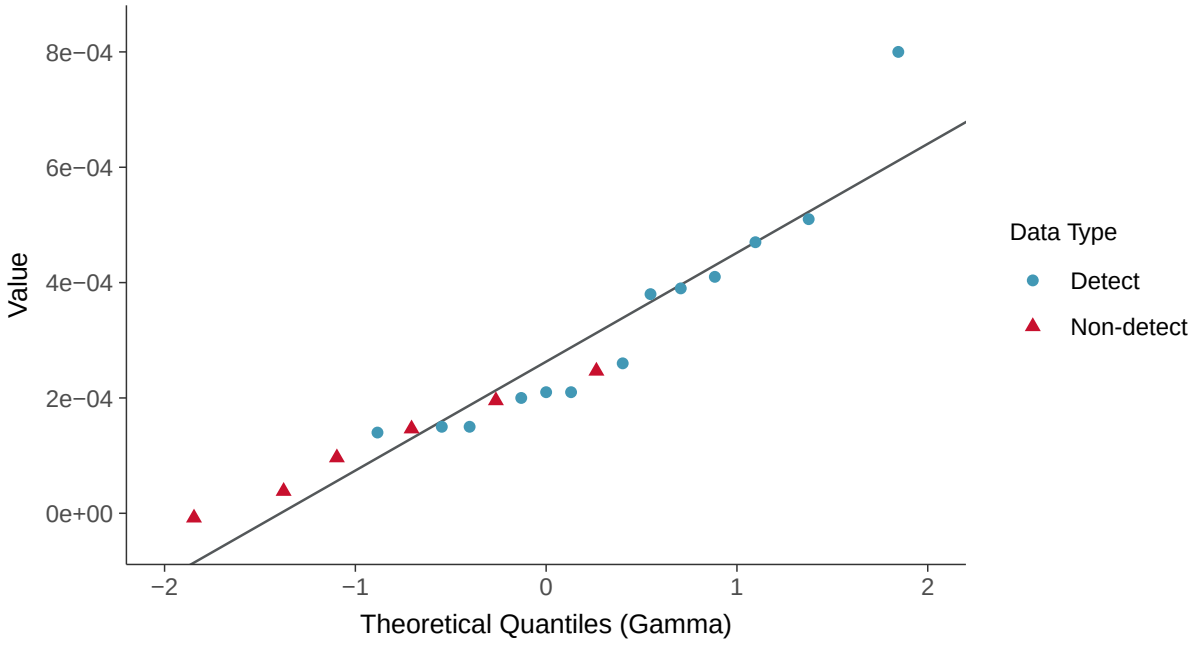
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)



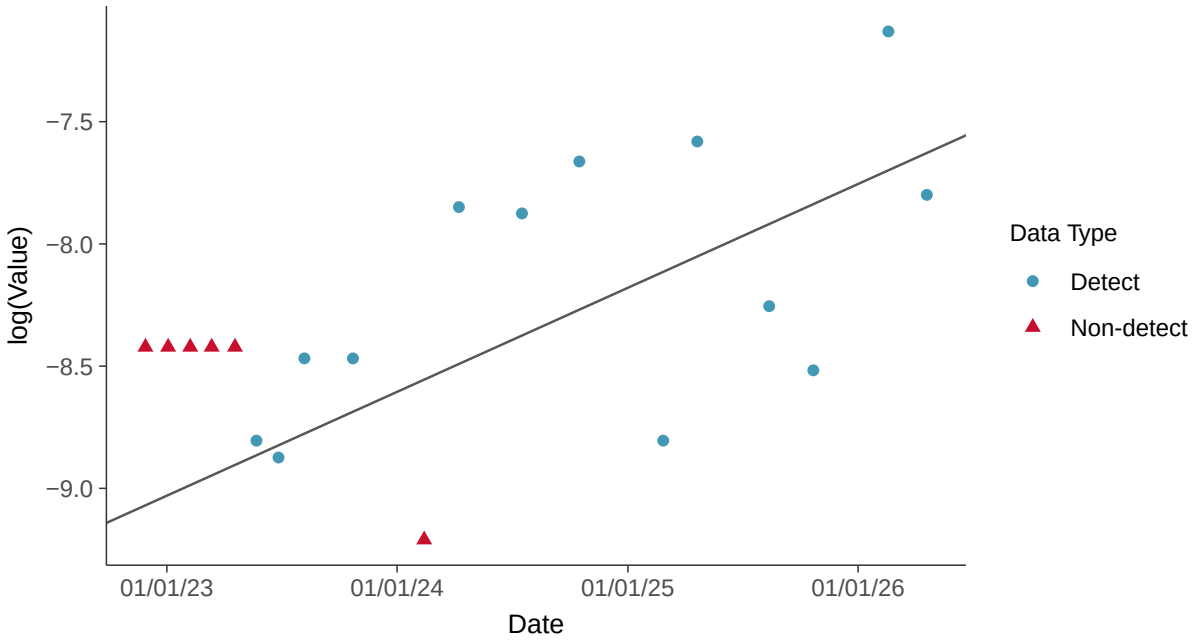
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-12 (mg/L)



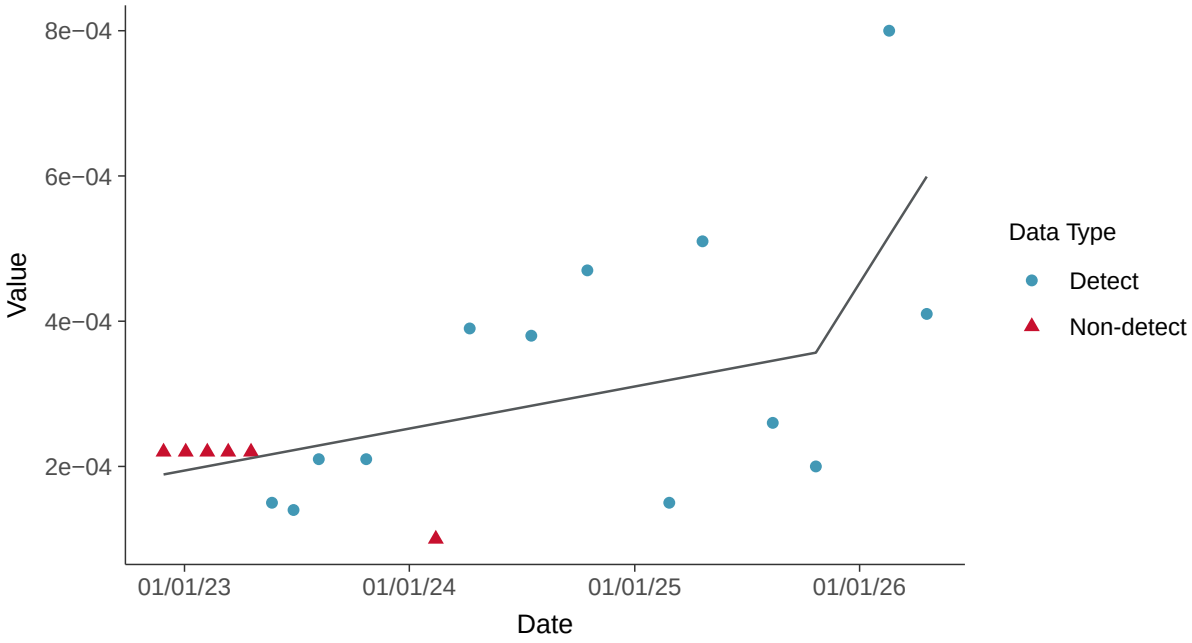
Trend Regression: Lognormal MLE

Lead, MW-12 (mg/L)



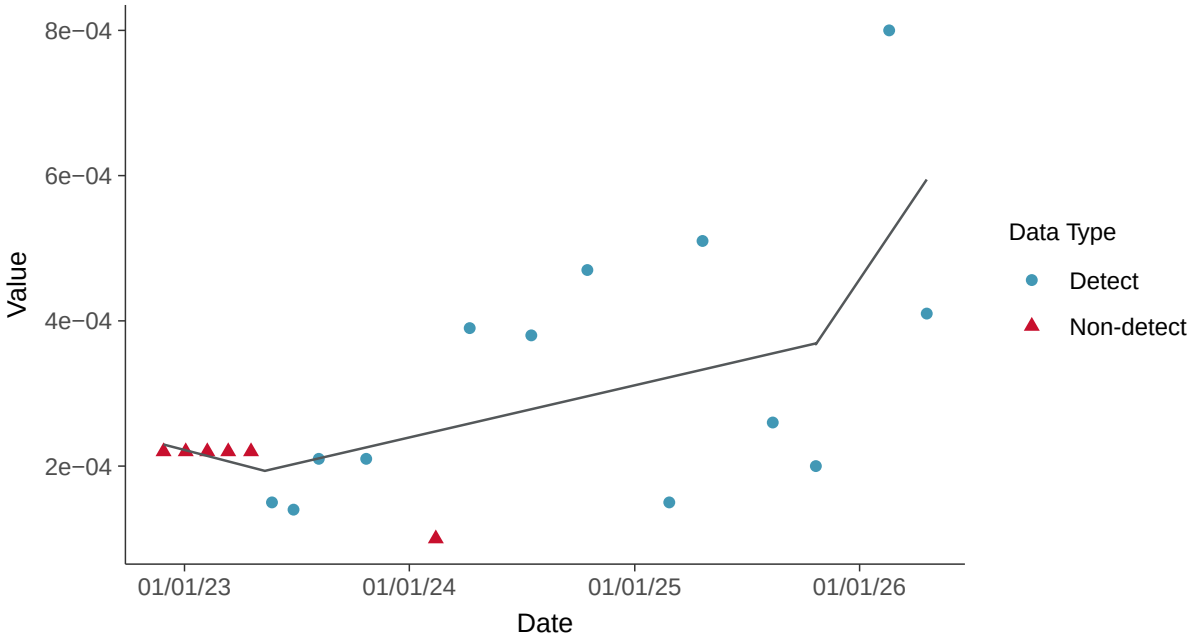
Trend Regression: Piecewise Linear-Linear

Lead, MW-12 (mg/L)



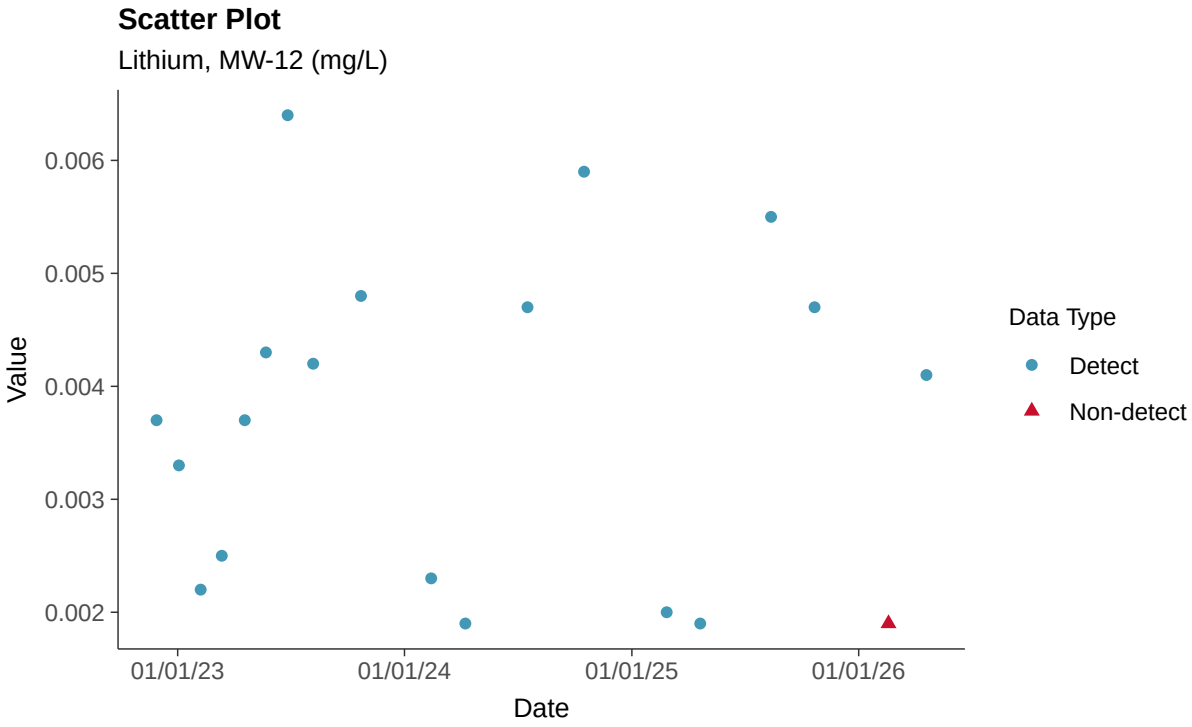
Trend Regression: Piecewise Linear-Linear-Linear

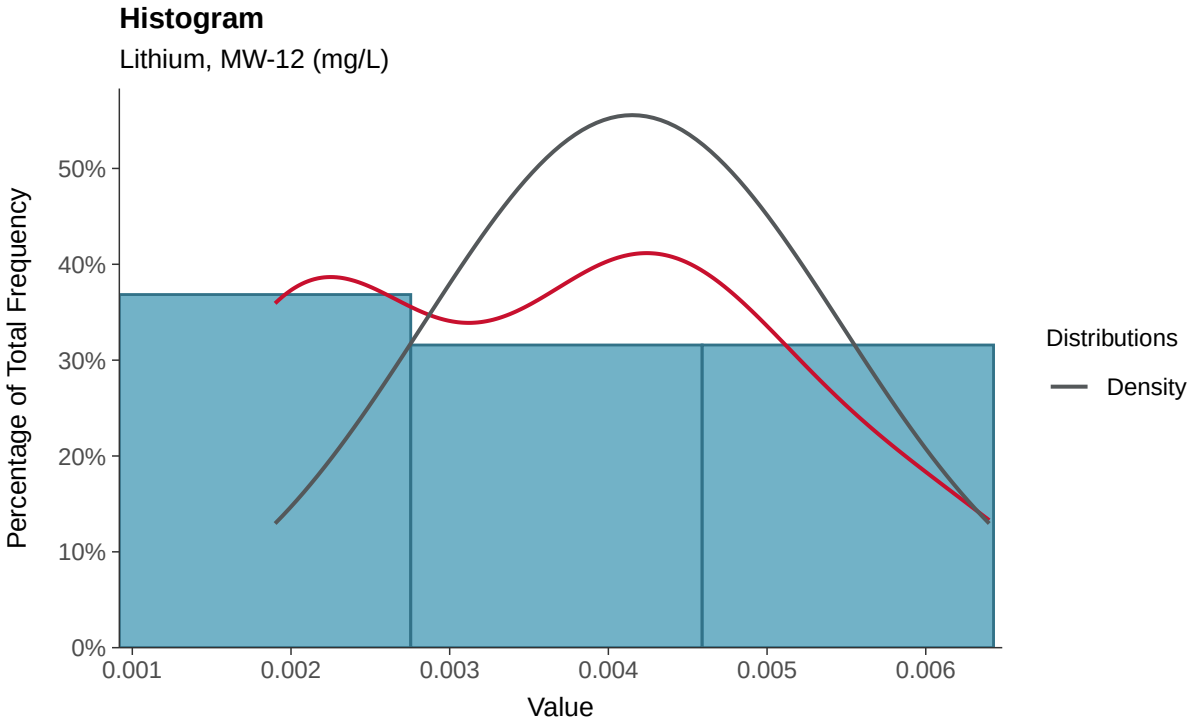
Lead, MW-12 (mg/L)



Appendix IV: Lithium, MW-12

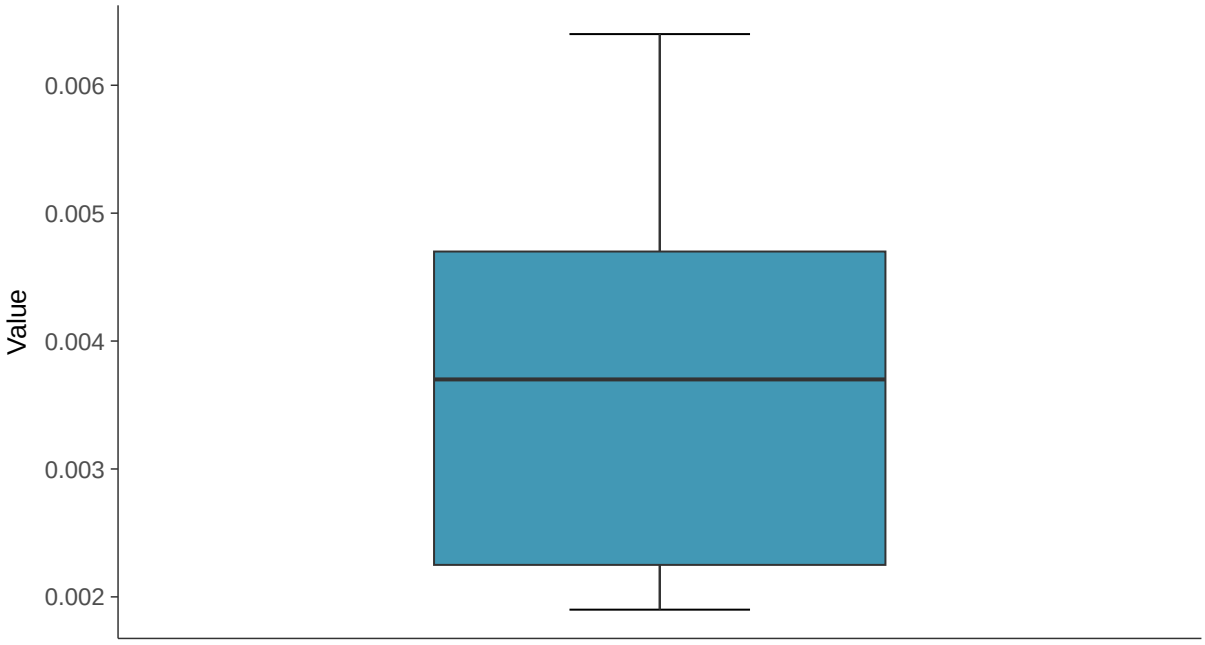
ID: 22_2_4_116





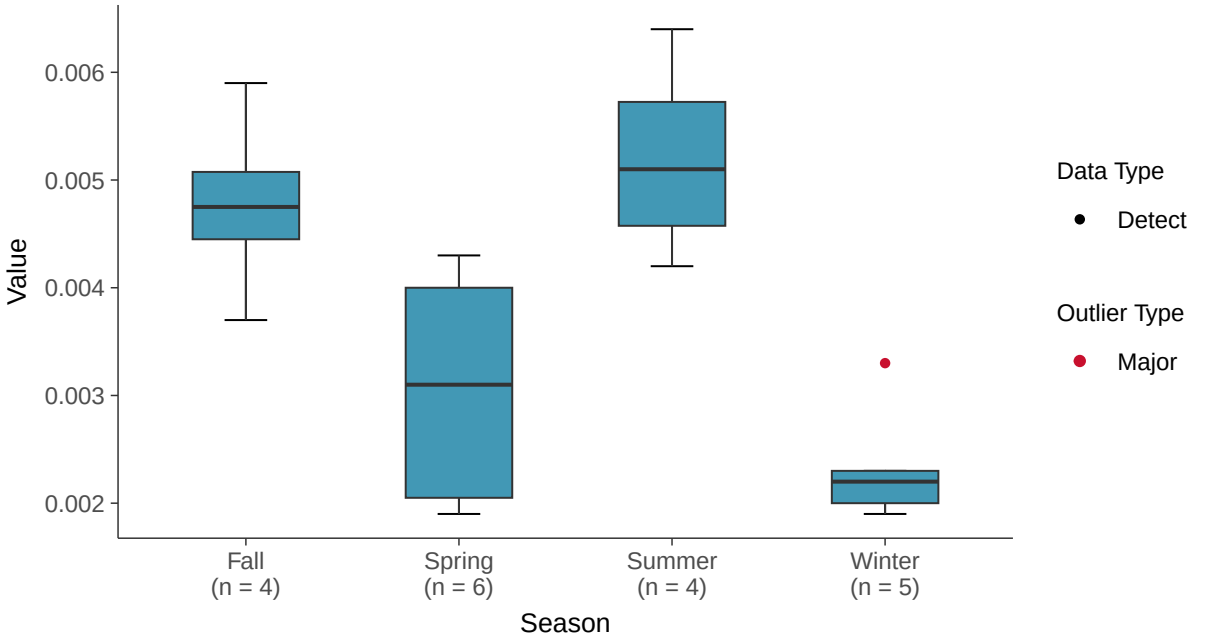
Boxplot

Lithium, MW-12 (mg/L)



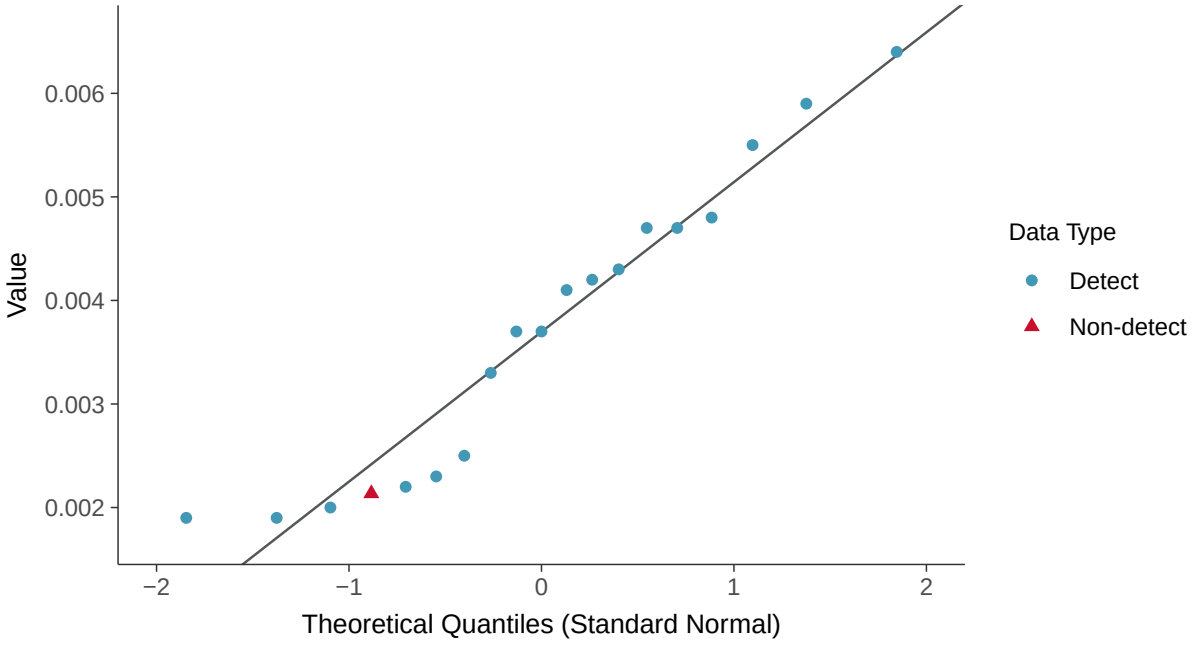
Boxplot by Season

Lithium, MW-12 (mg/L)



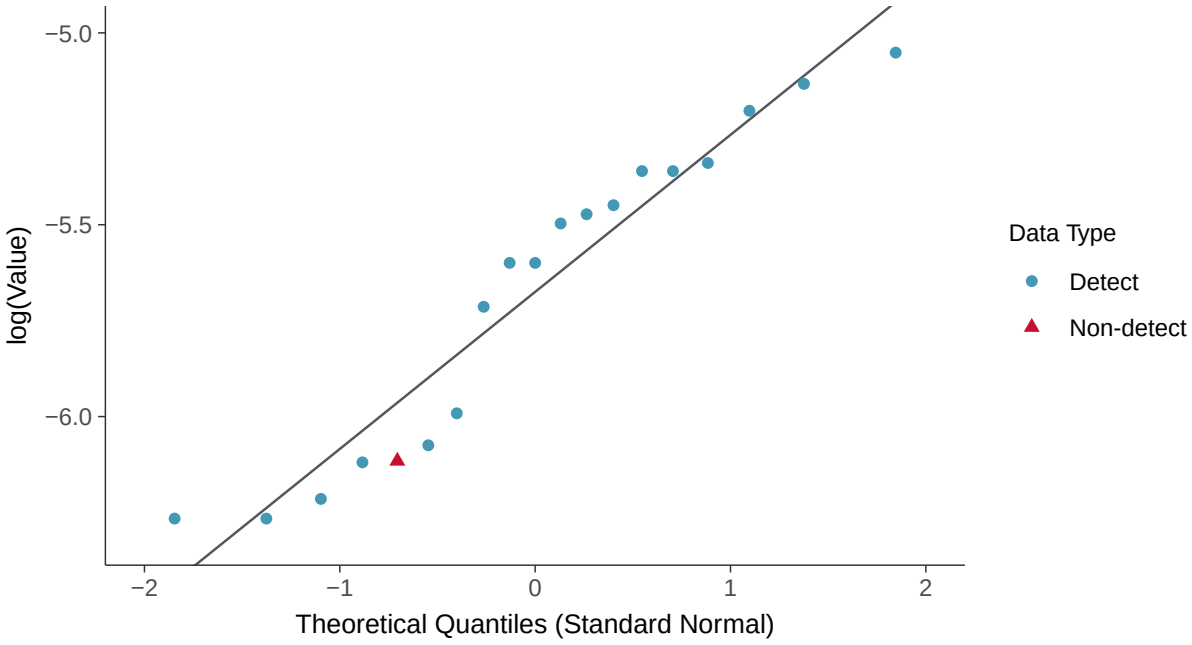
Normal Q-Q plot using ROS Imputed Estimates

Lithium, MW-12 (mg/L)



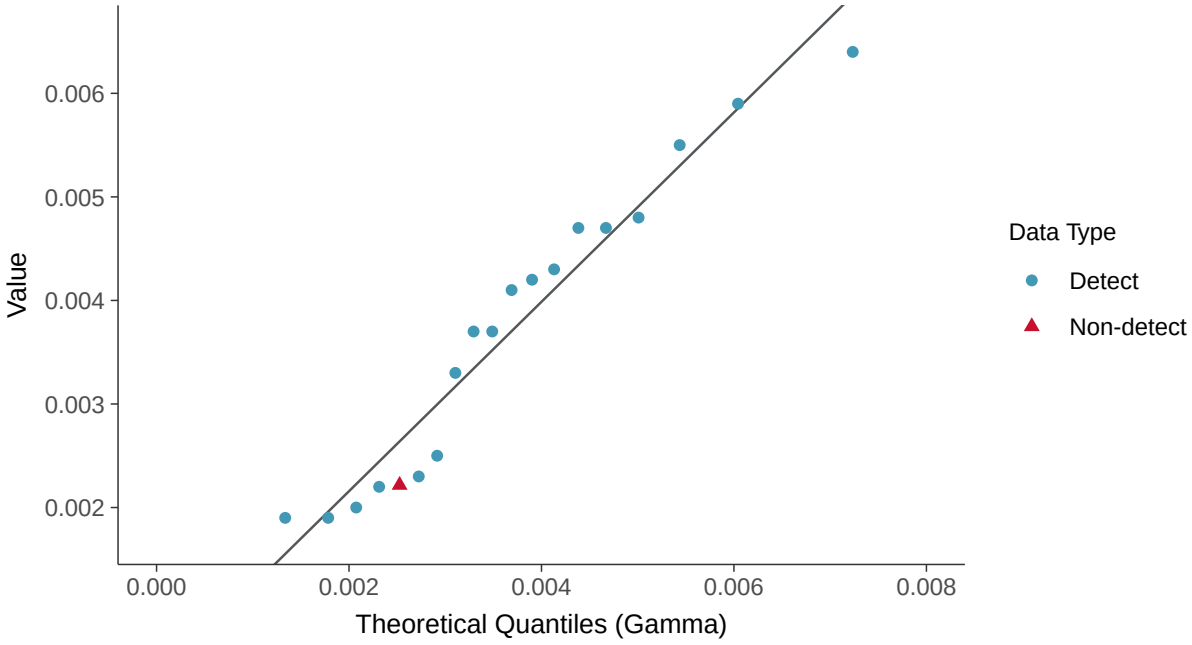
Lognormal Q-Q plot using ROS Imputed Estimates

Lithium, MW-12 (mg/L)



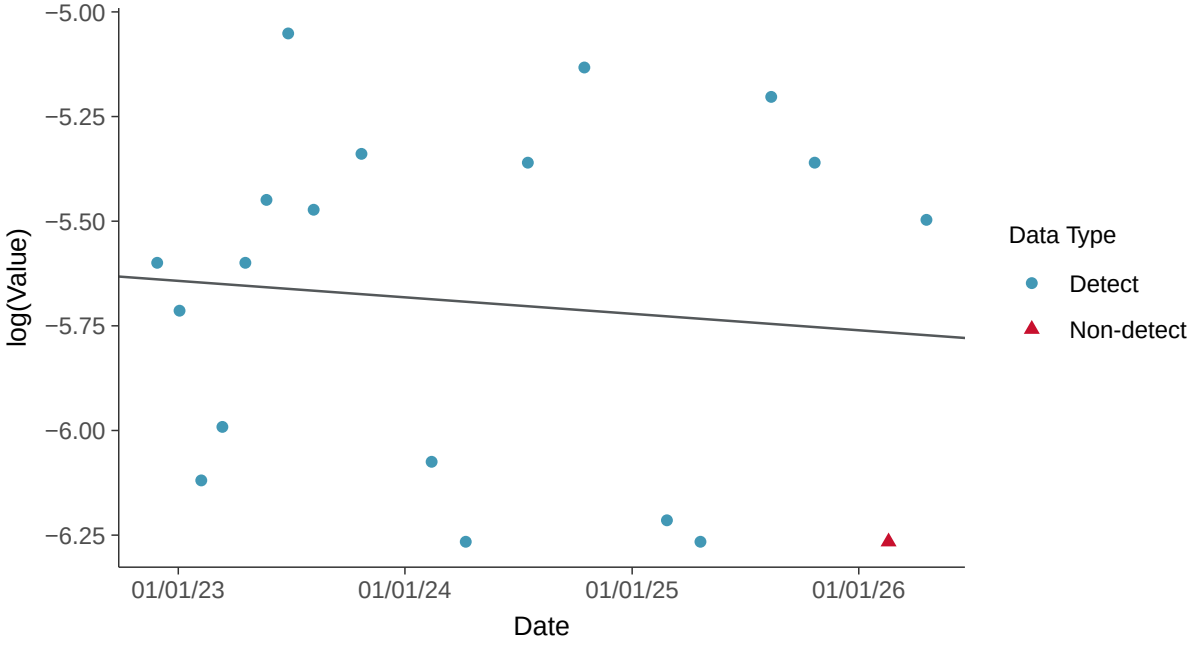
Gamma Q-Q plot using ROS Imputed Estimates

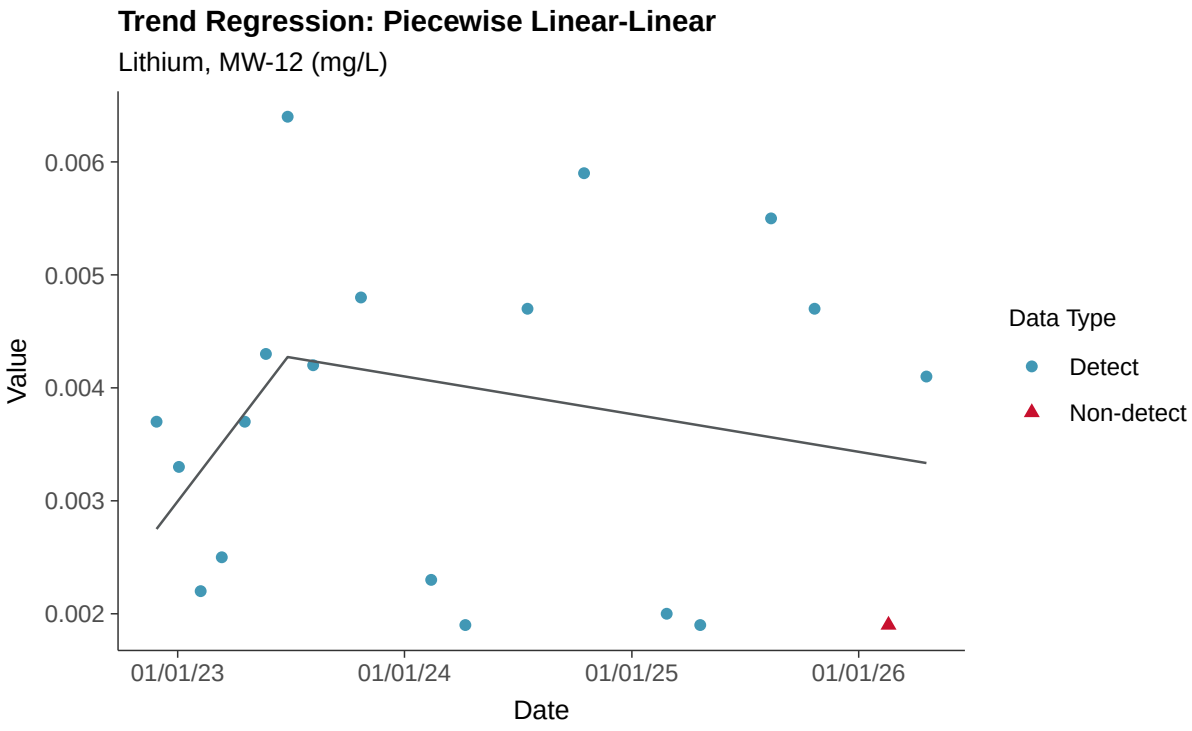
Lithium, MW-12 (mg/L)



Trend Regression: Lognormal MLE

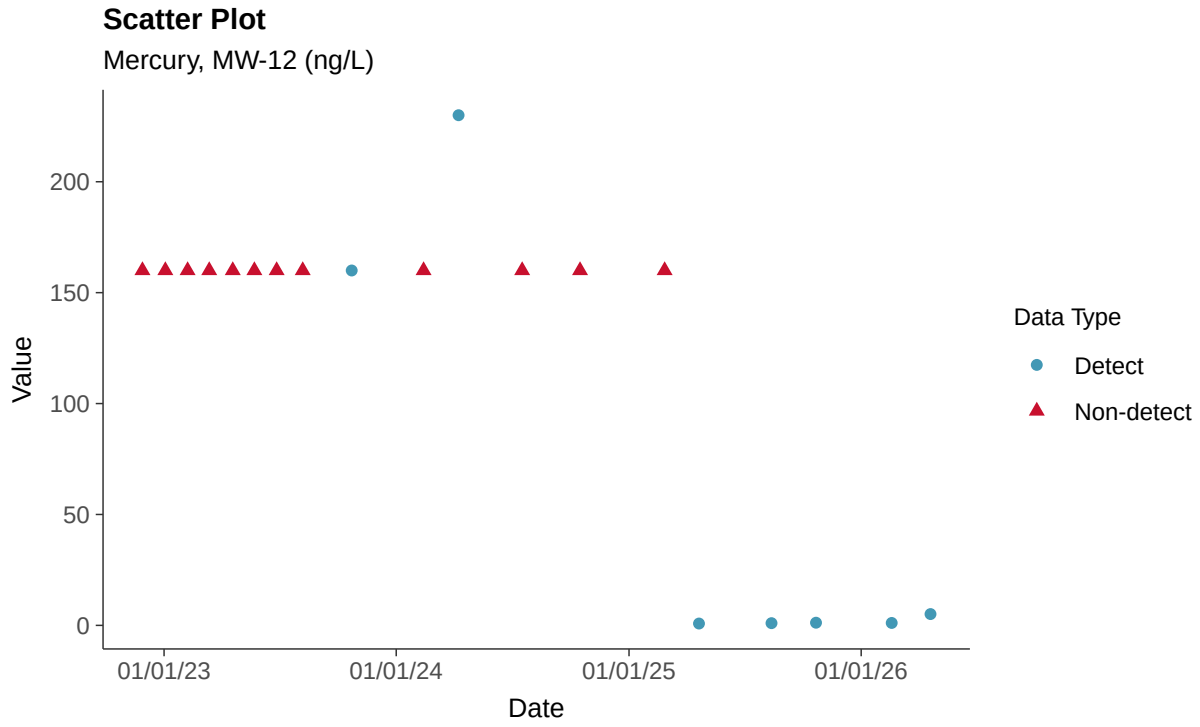
Lithium, MW-12 (mg/L)

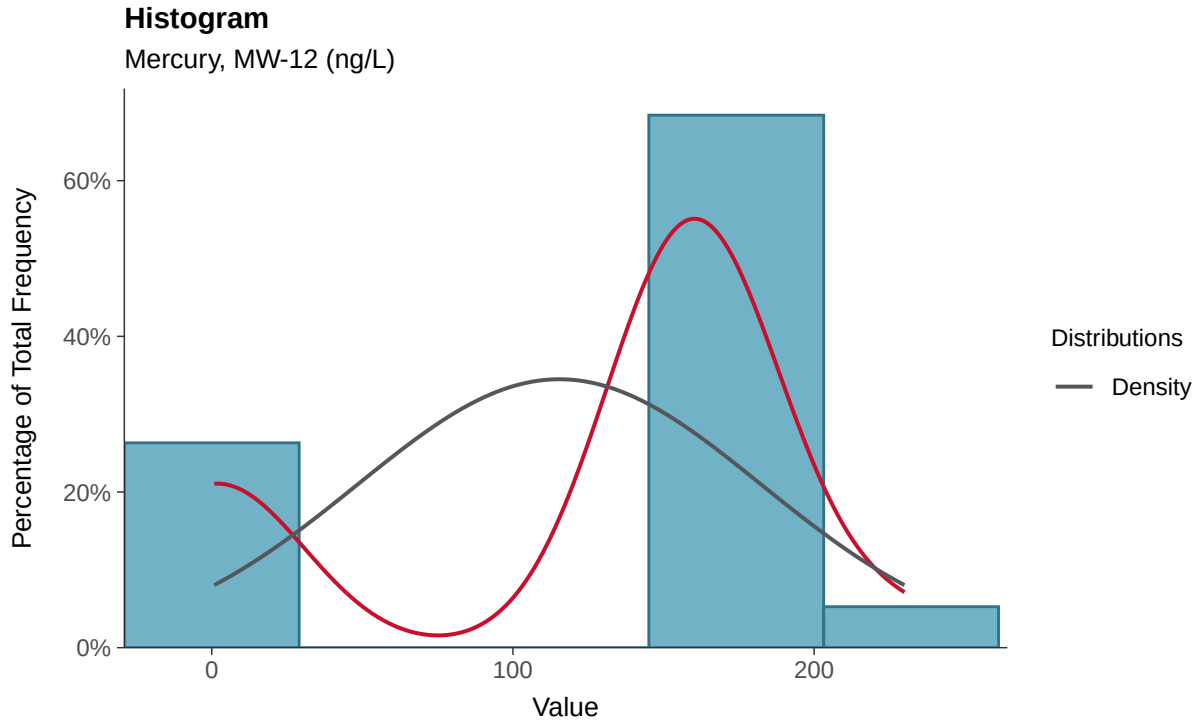



Trend Regression: Piecewise Linear-Linear
Lithium, MW-12 (mg/L)
Value
0.006
0.005
0.004
0.003
0.002
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Mercury, MW-12

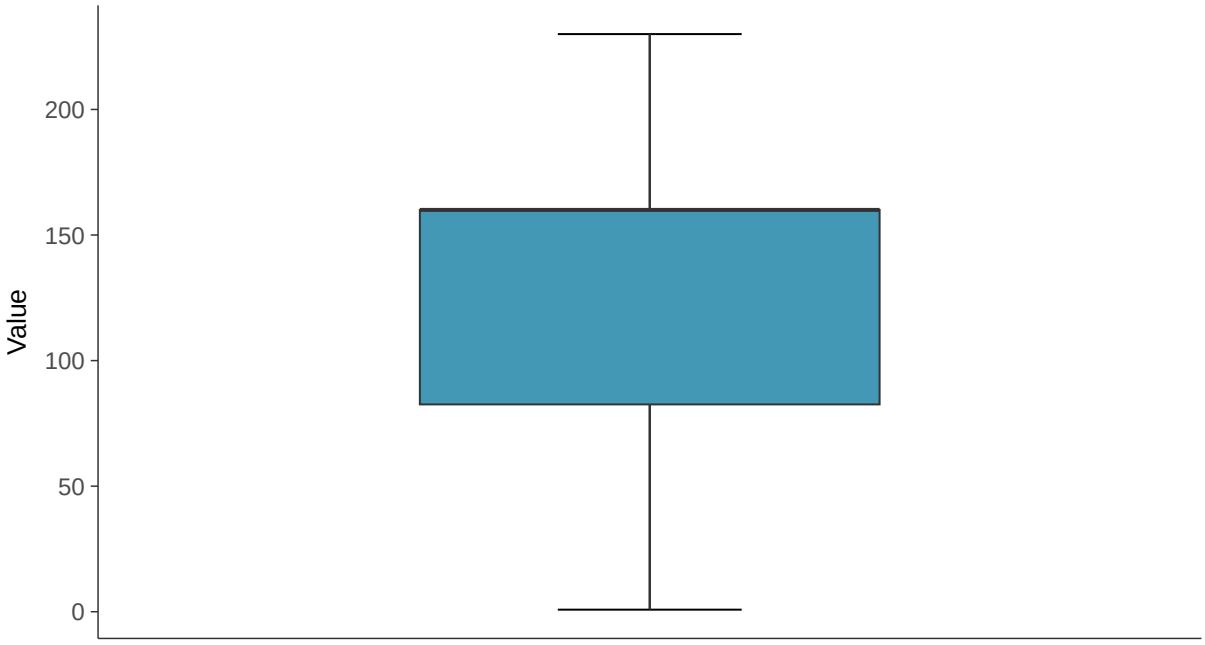
ID: 22_2_4_117





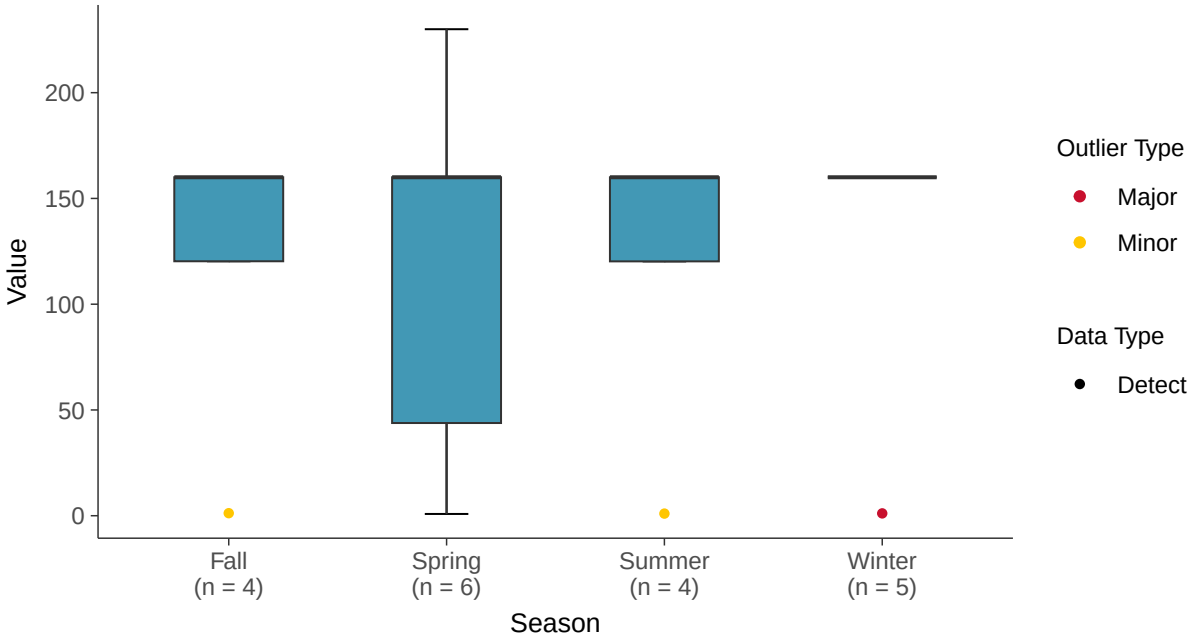
Boxplot

Mercury, MW-12 (ng/L)



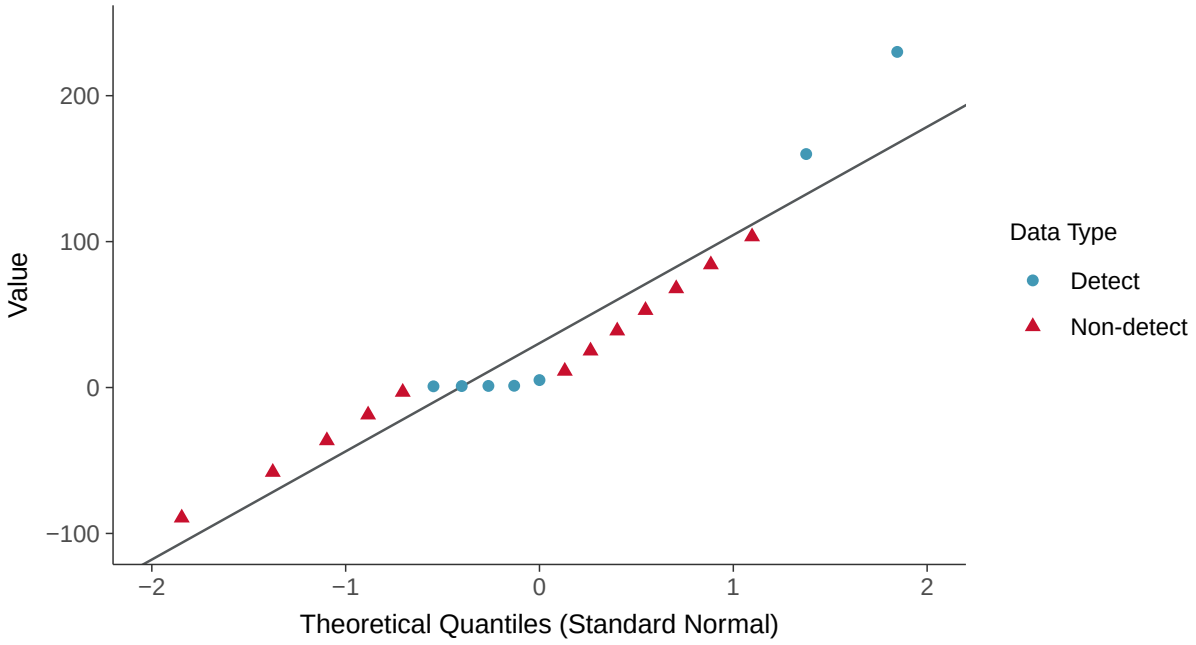
Boxplot by Season

Mercury, MW-12 (ng/L)



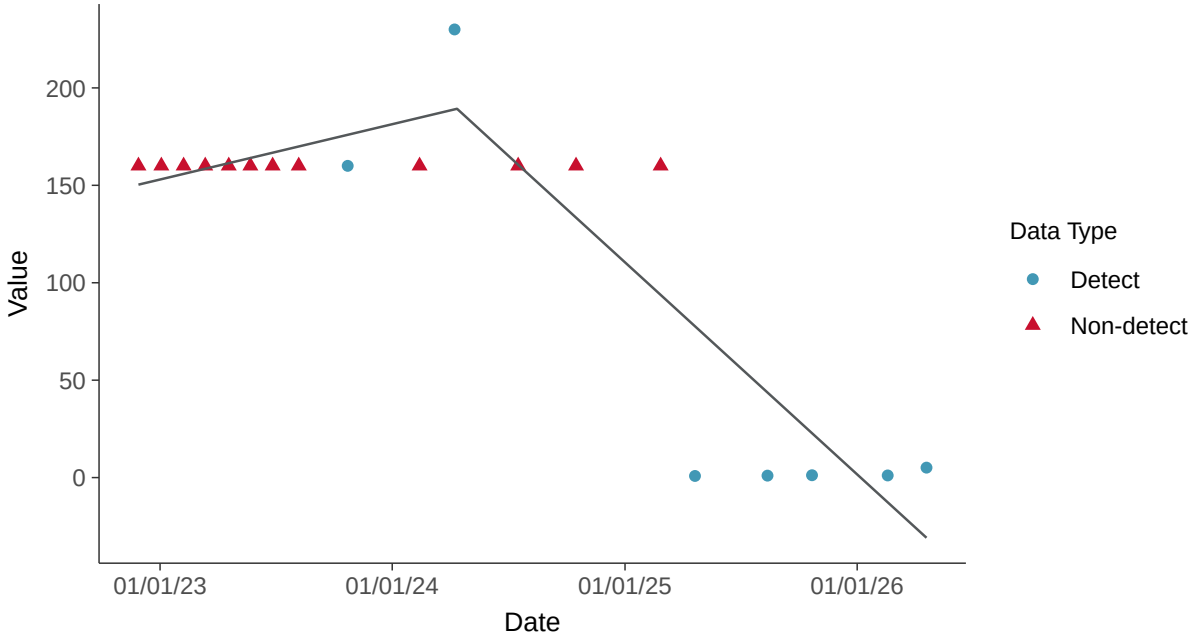
Normal Q-Q plot using ROS Imputed Estimates

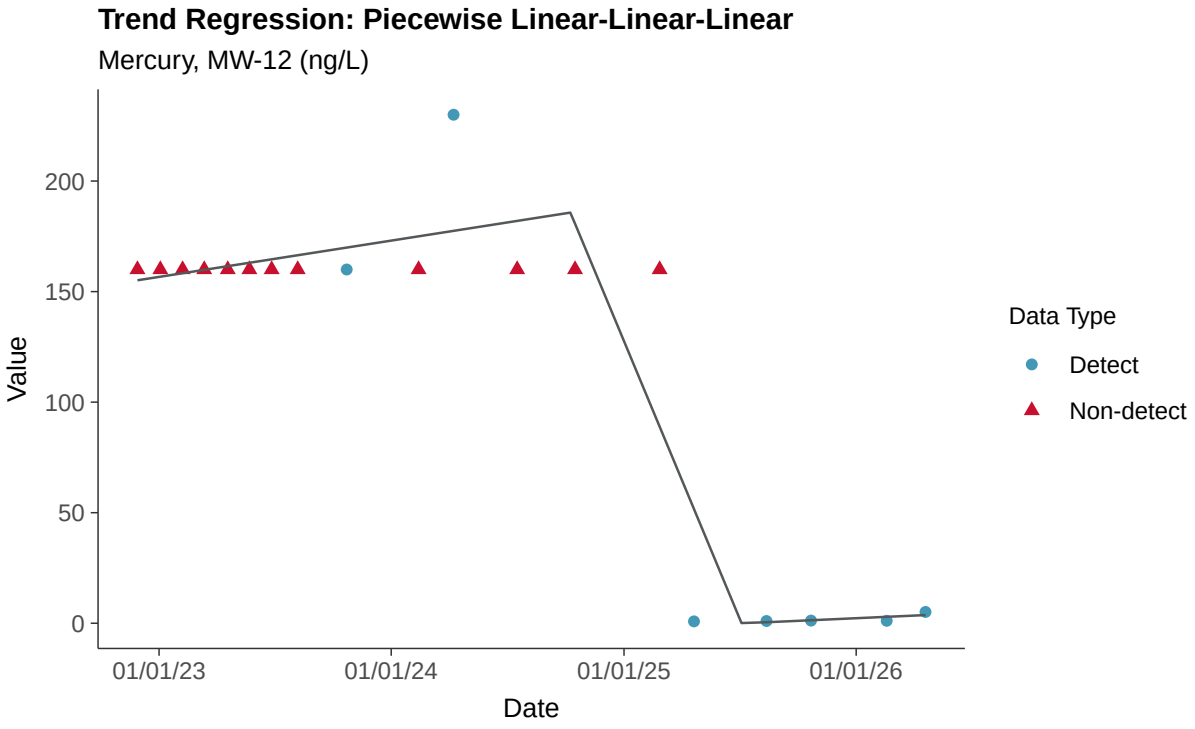
Mercury, MW-12 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-12 (ng/L)



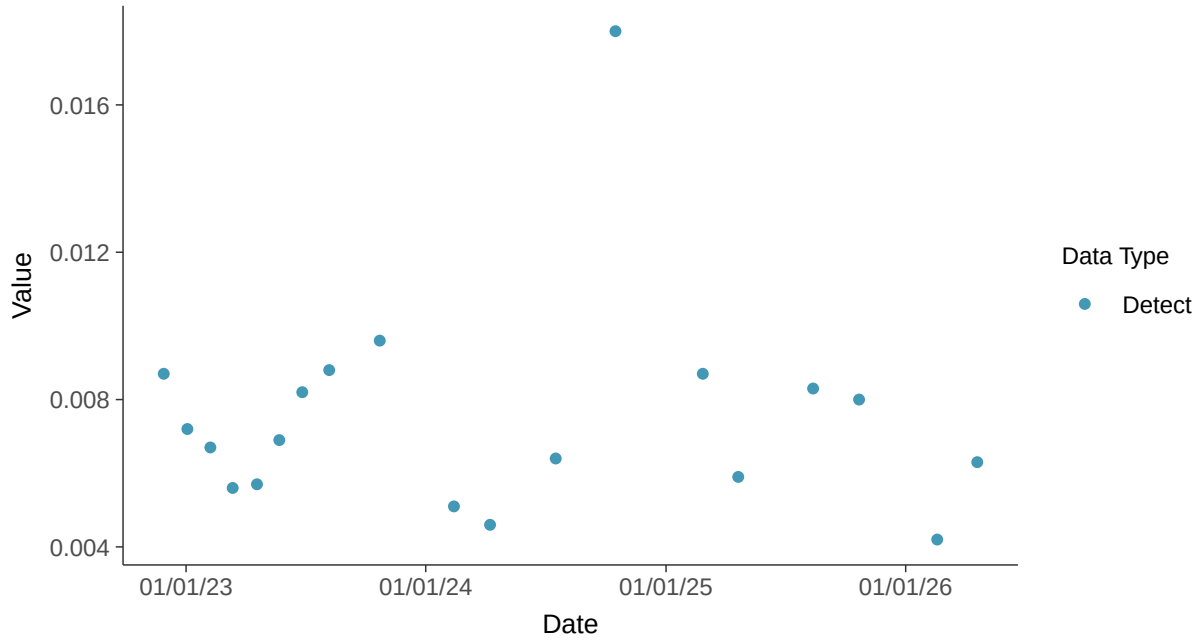

Trend Regression: Piecewise Linear-Linear-Linear
Mercury, MW-12 (ng/L)
Value
200
150
100
50
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-12

ID: 22_2_4_118

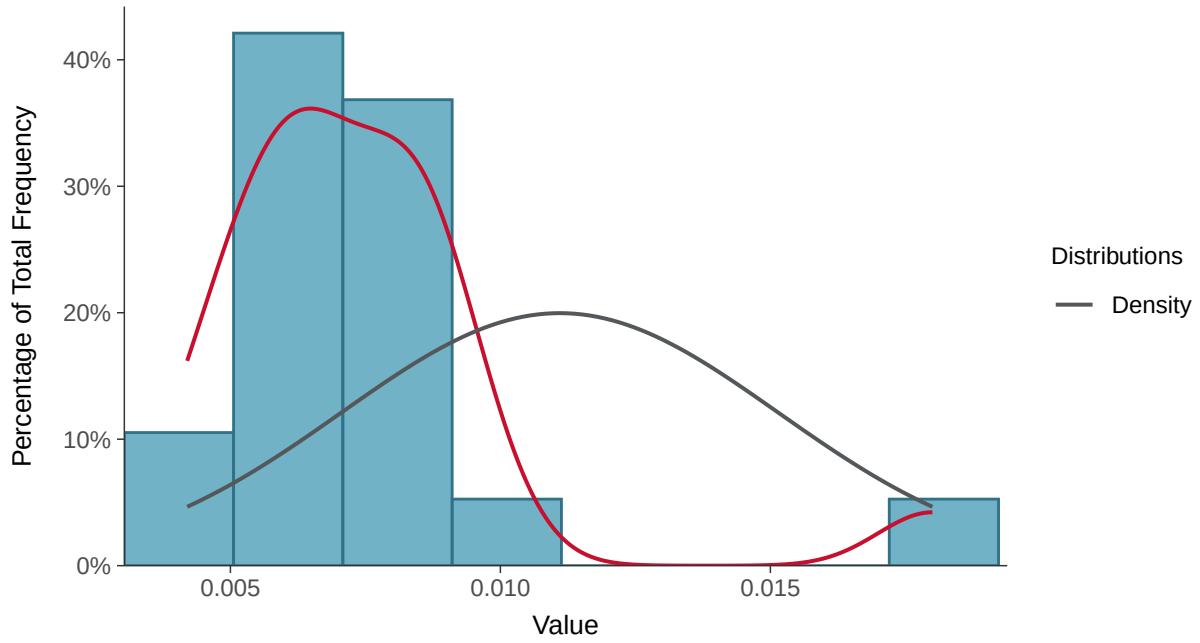
Scatter Plot

Molybdenum, MW-12 (mg/L)



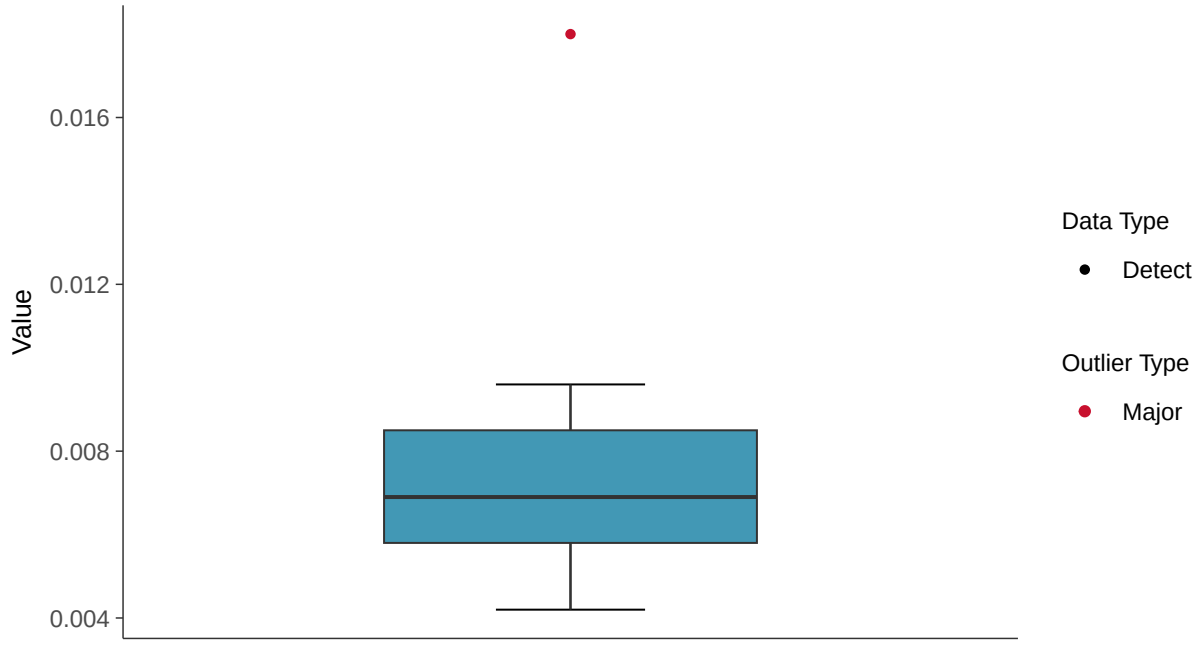
Histogram

Molybdenum, MW-12 (mg/L)



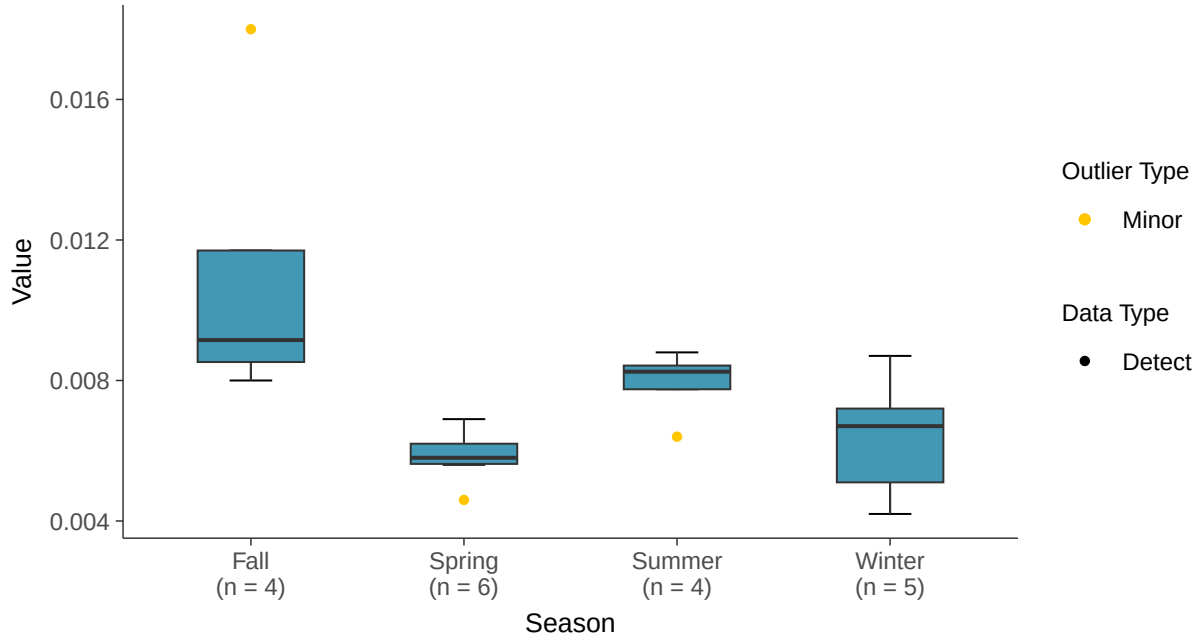
Boxplot

Molybdenum, MW-12 (mg/L)



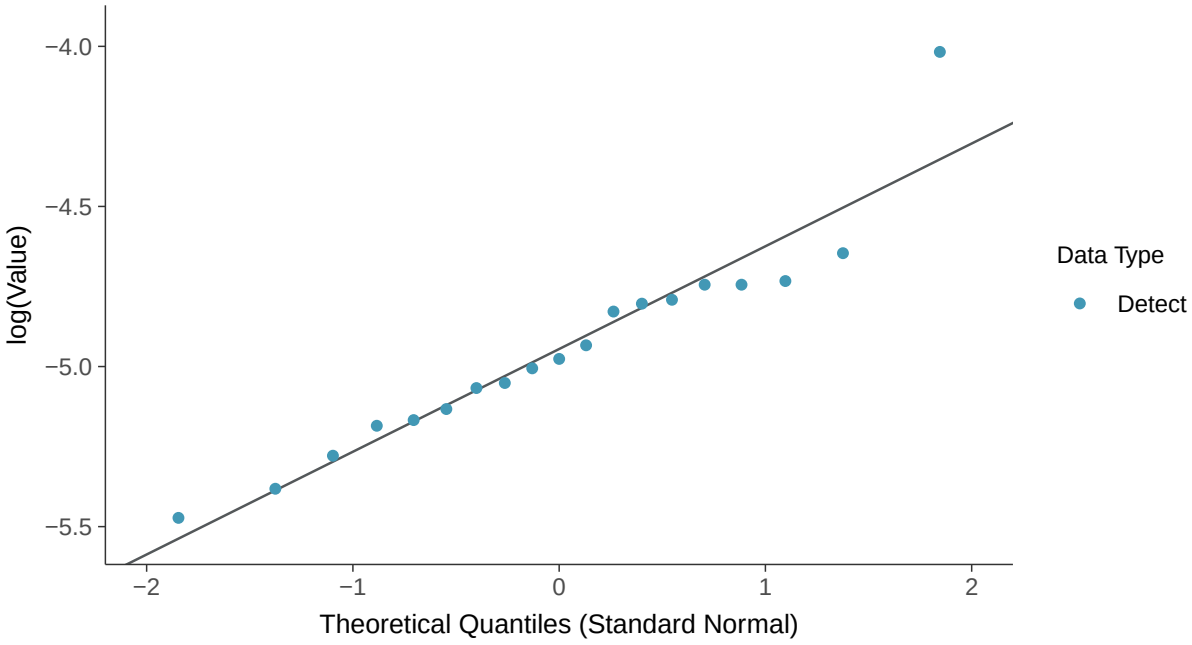
Boxplot by Season

Molybdenum, MW-12 (mg/L)



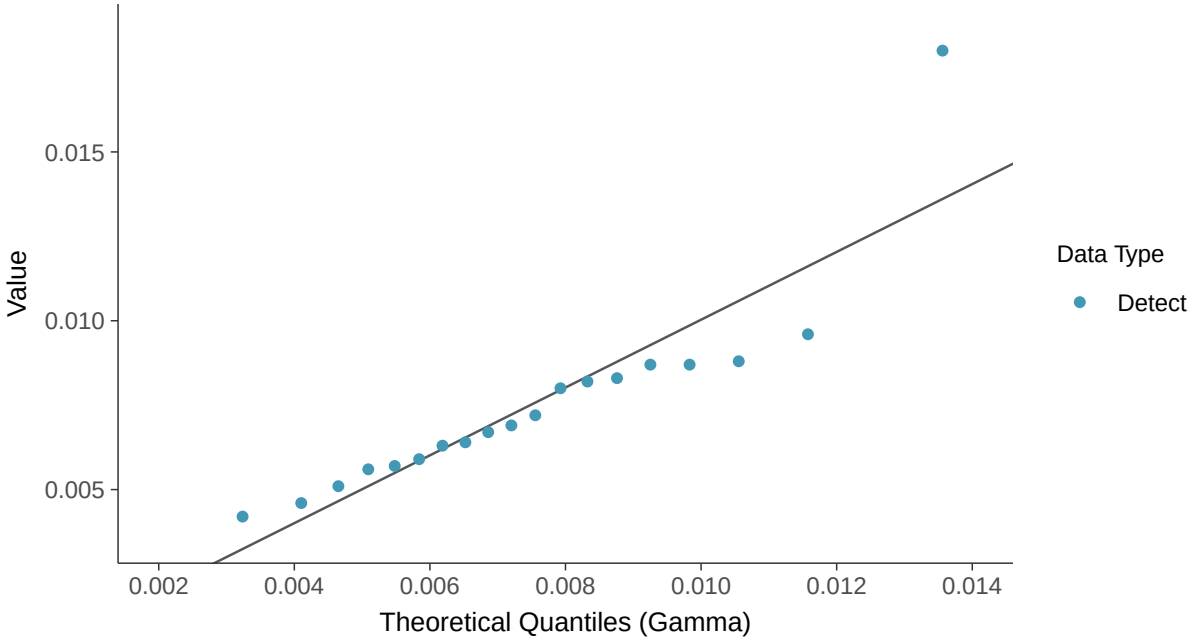
Lognormal Q-Q plot

Molybdenum, MW-12 (mg/L)



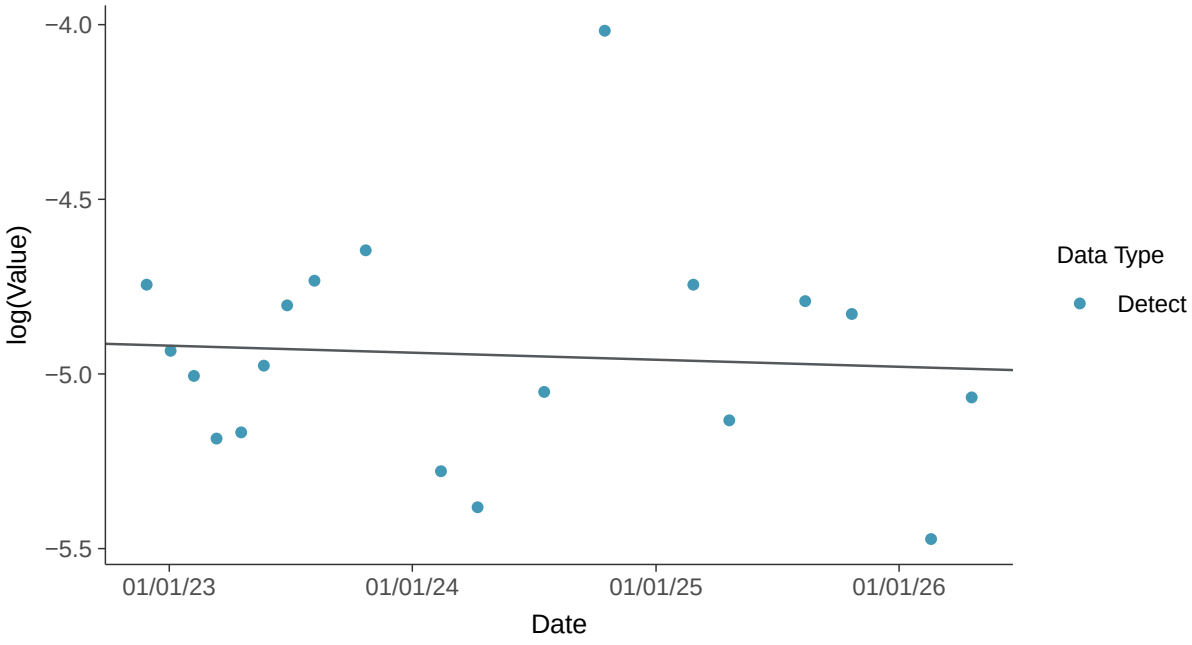
Gamma Q-Q plot

Molybdenum, MW-12 (mg/L)



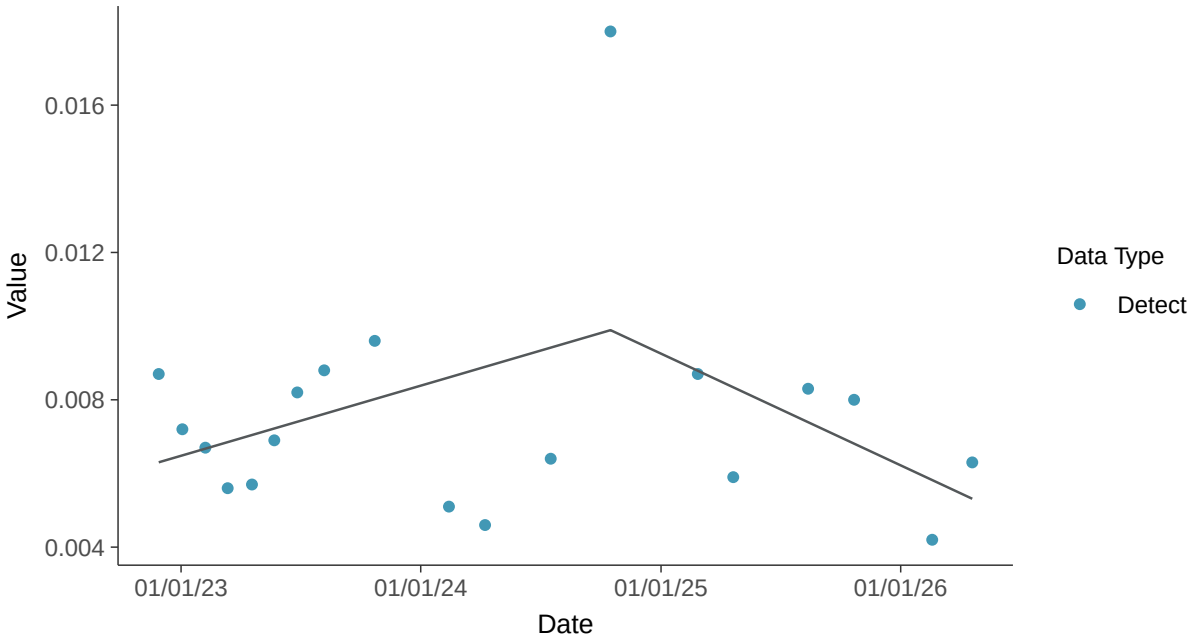
Trend Regression: Lognormal MLE

Molybdenum, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-12 (mg/L)

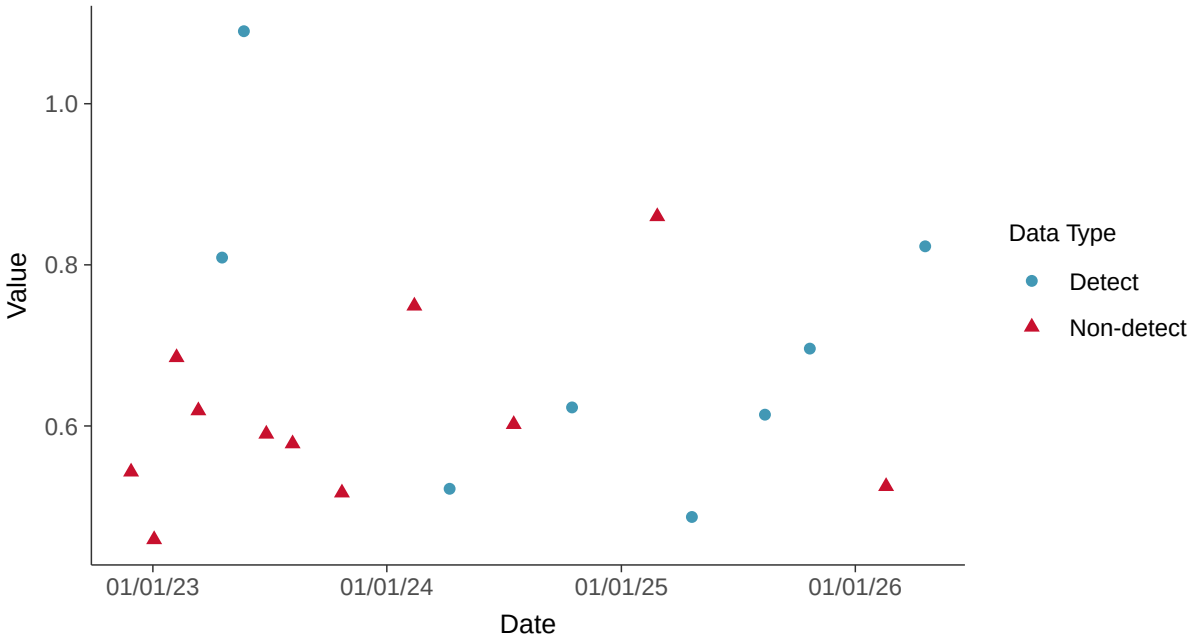


Appendix IV: Radium 226 and 228, MW-12

ID: 22_2_4_121

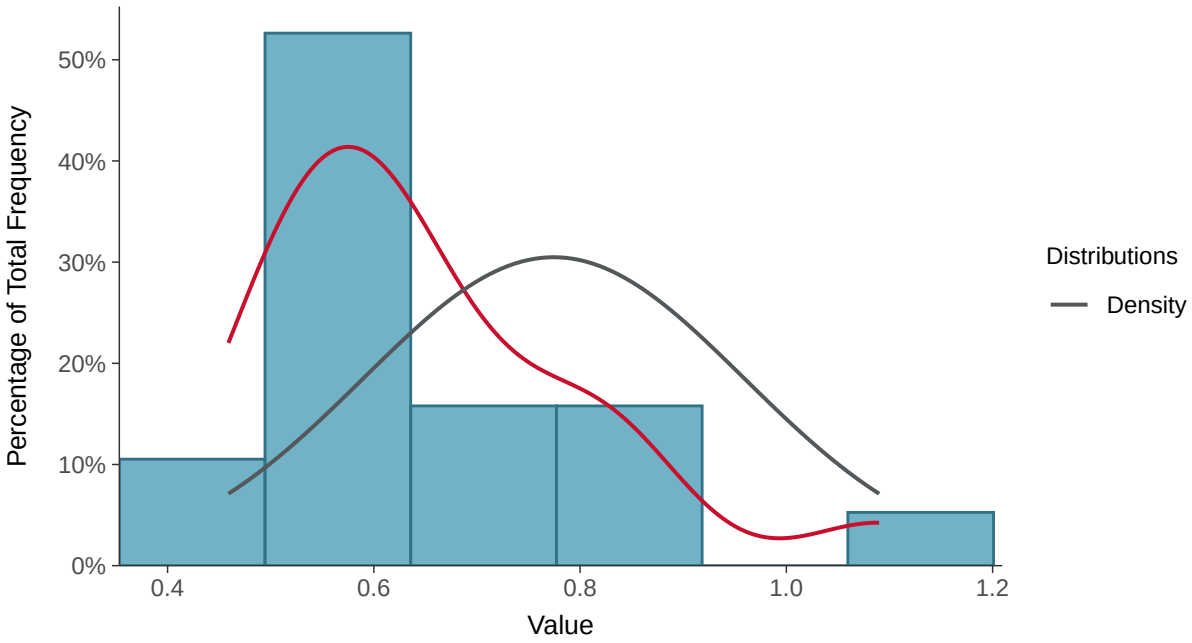
Scatter Plot

Radium 226 and 228, MW-12 (pCi/L)



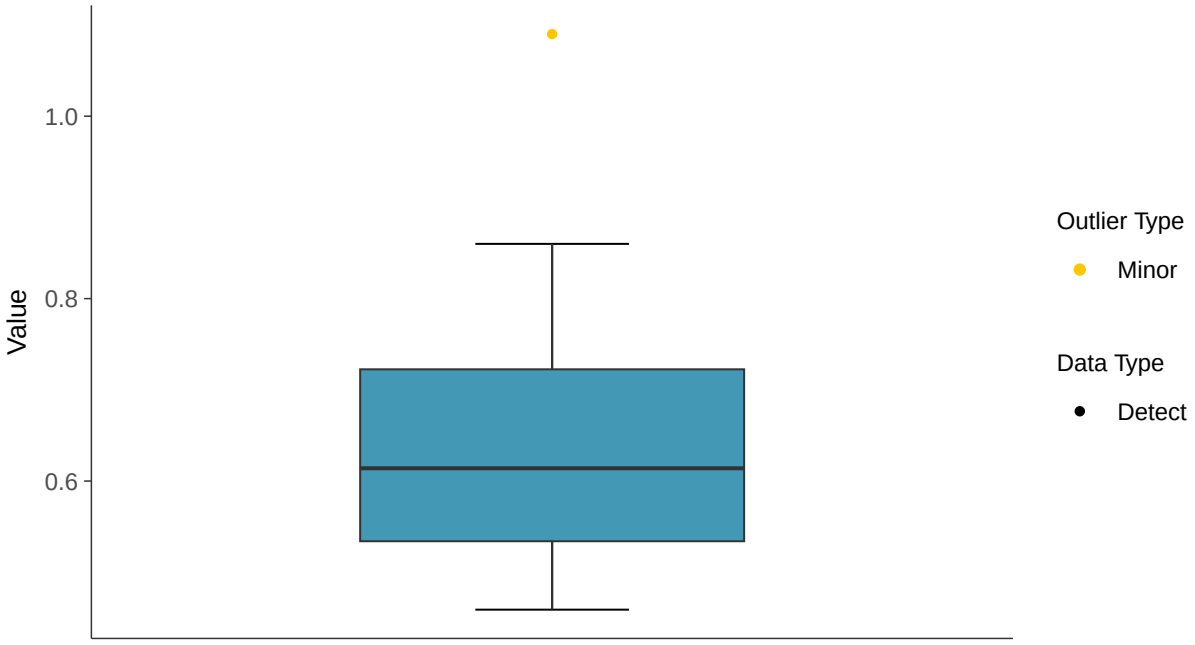
Histogram

Radium 226 and 228, MW-12 (pCi/L)



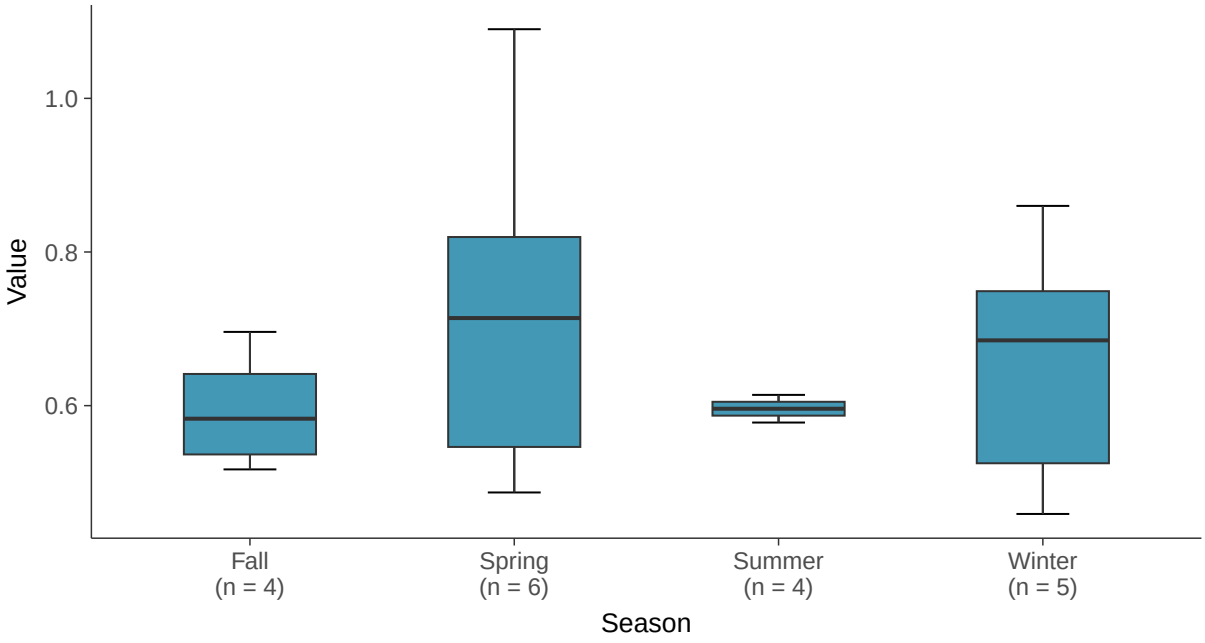
Boxplot

Radium 226 and 228, MW-12 (pCi/L)



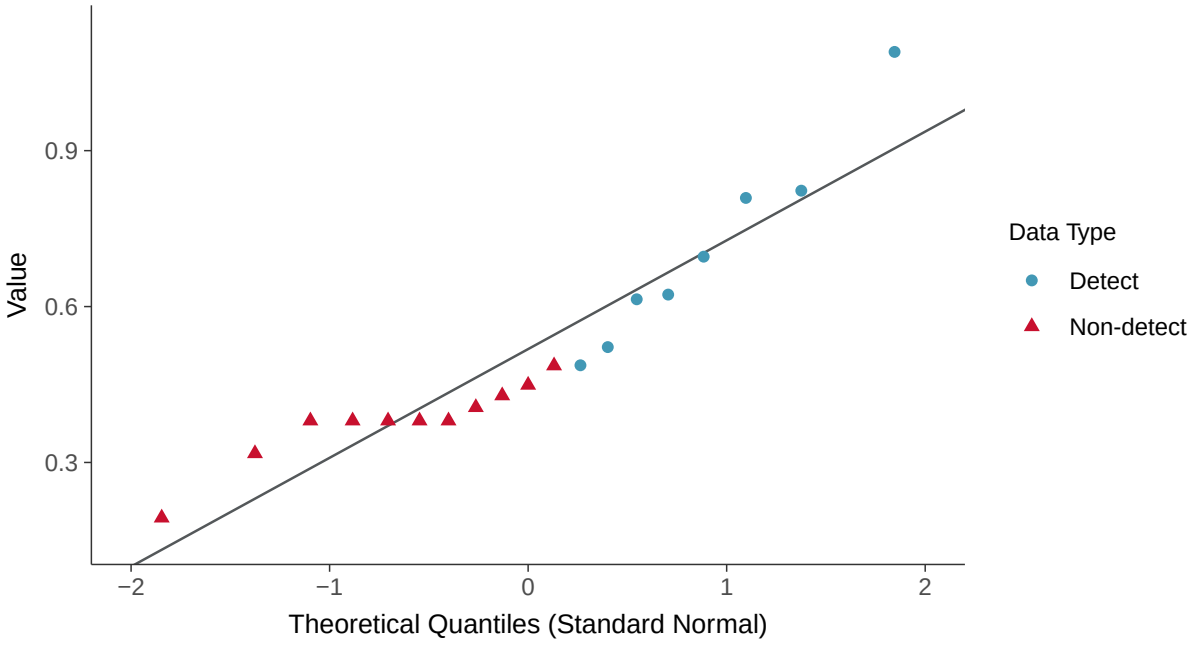
Boxplot by Season

Radium 226 and 228, MW-12 (pCi/L)



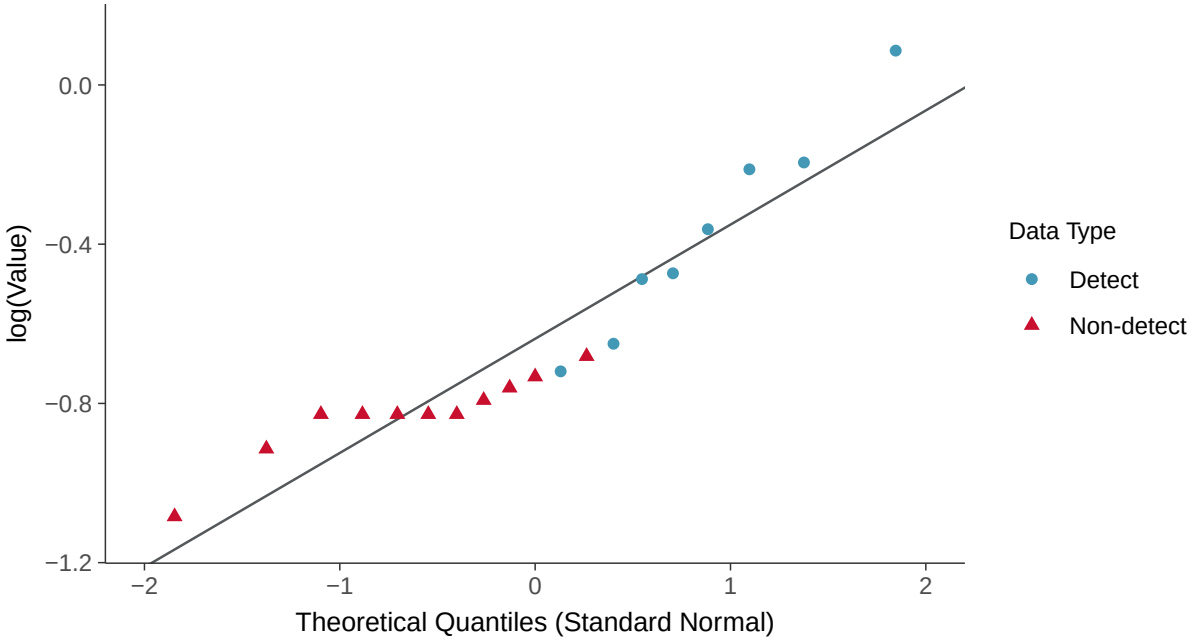
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



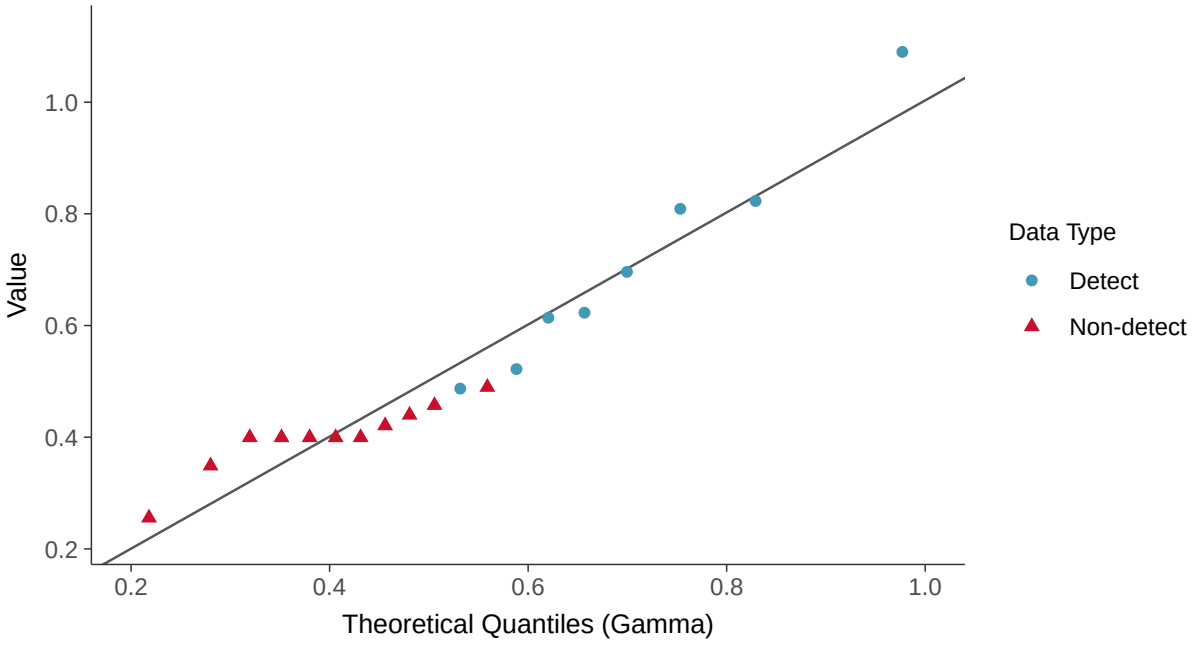
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



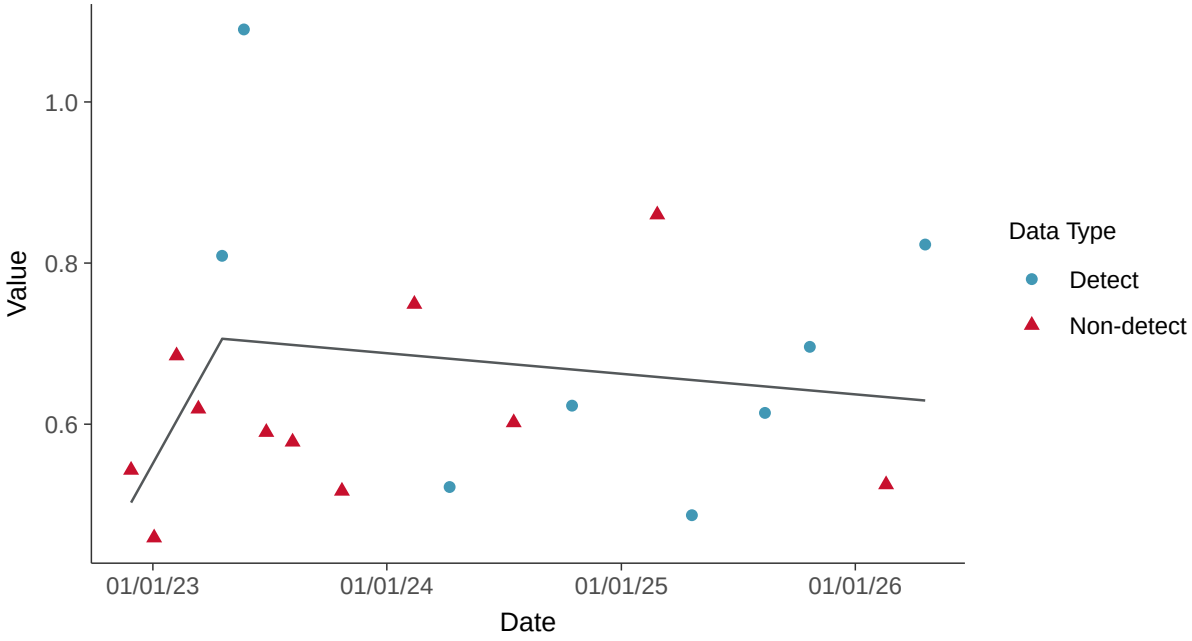
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-12 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-12 (pCi/L)

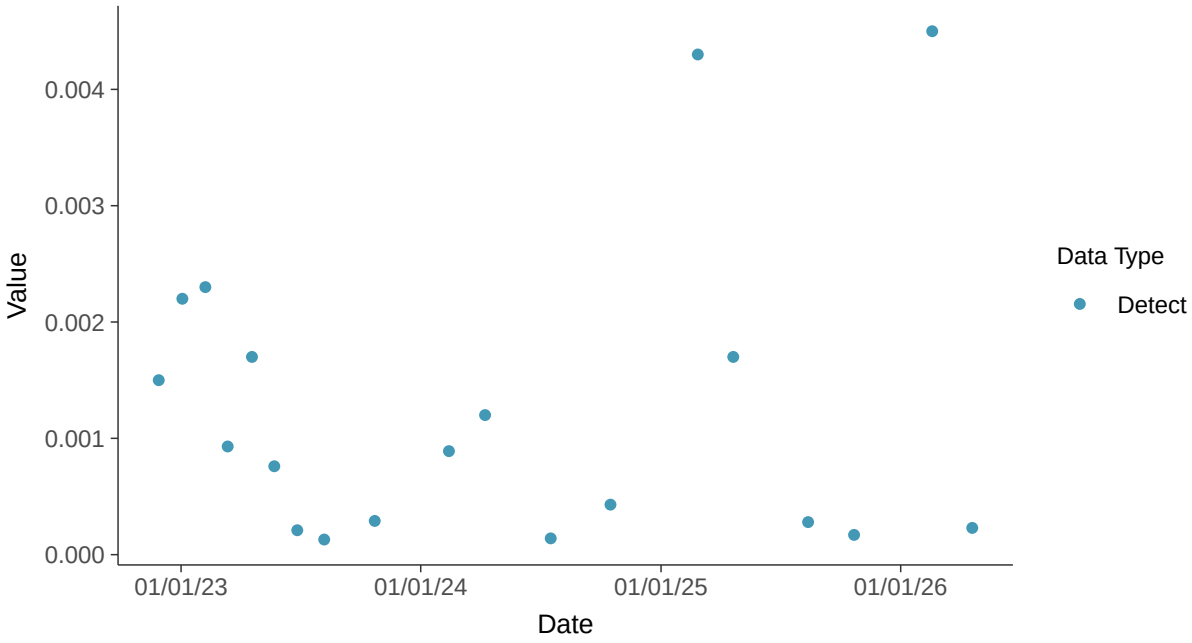


Appendix IV: Selenium, MW-12

ID: 22_2_4_122

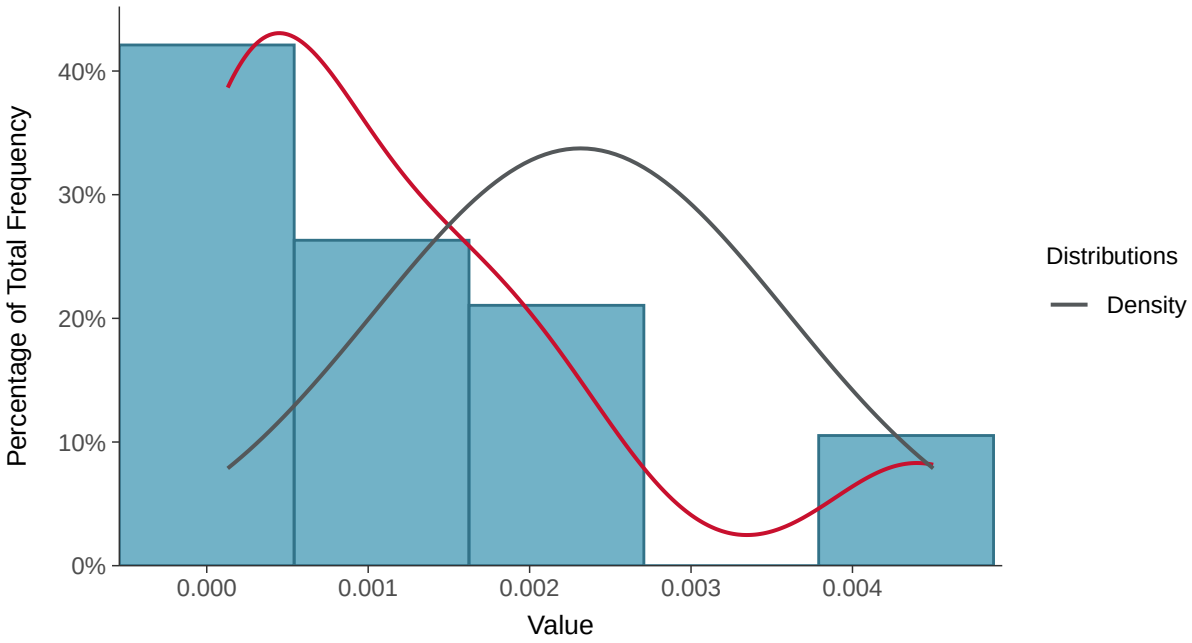
Scatter Plot

Selenium, MW-12 (mg/L)



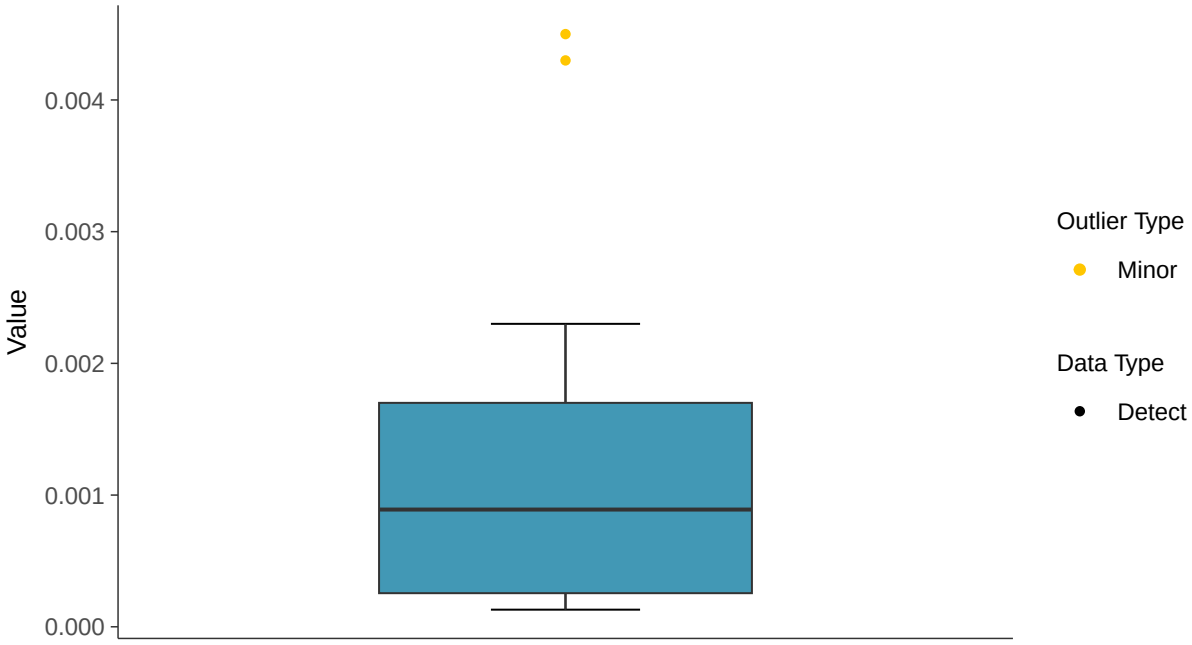
Histogram

Selenium, MW-12 (mg/L)



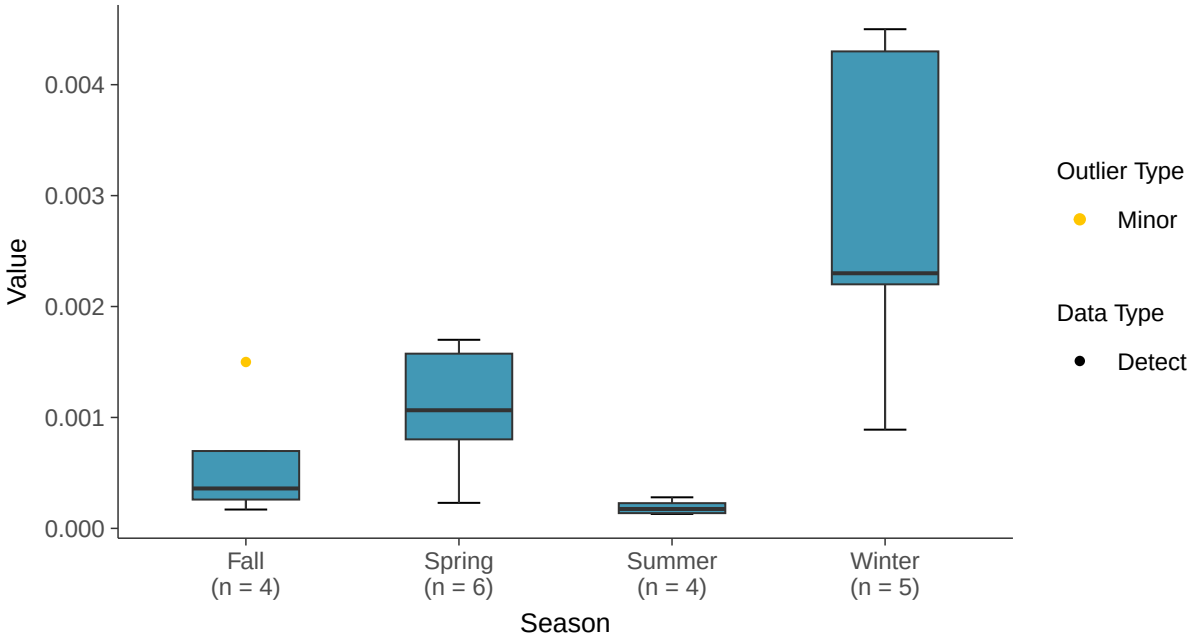
Boxplot

Selenium, MW-12 (mg/L)



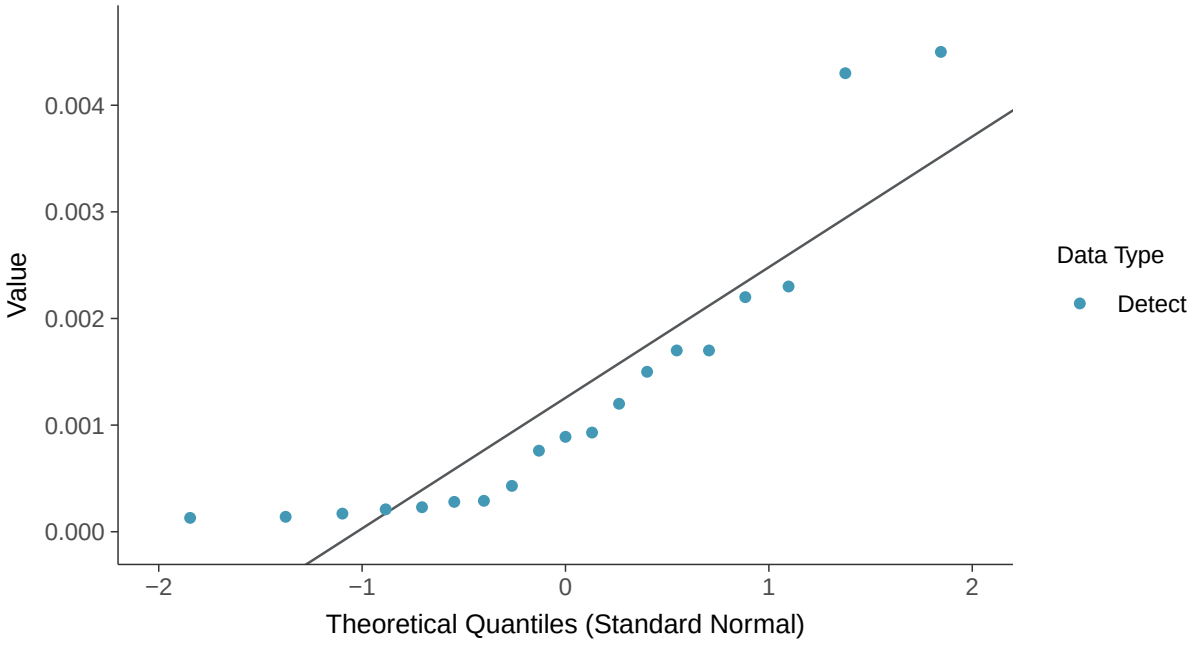
Boxplot by Season

Selenium, MW-12 (mg/L)



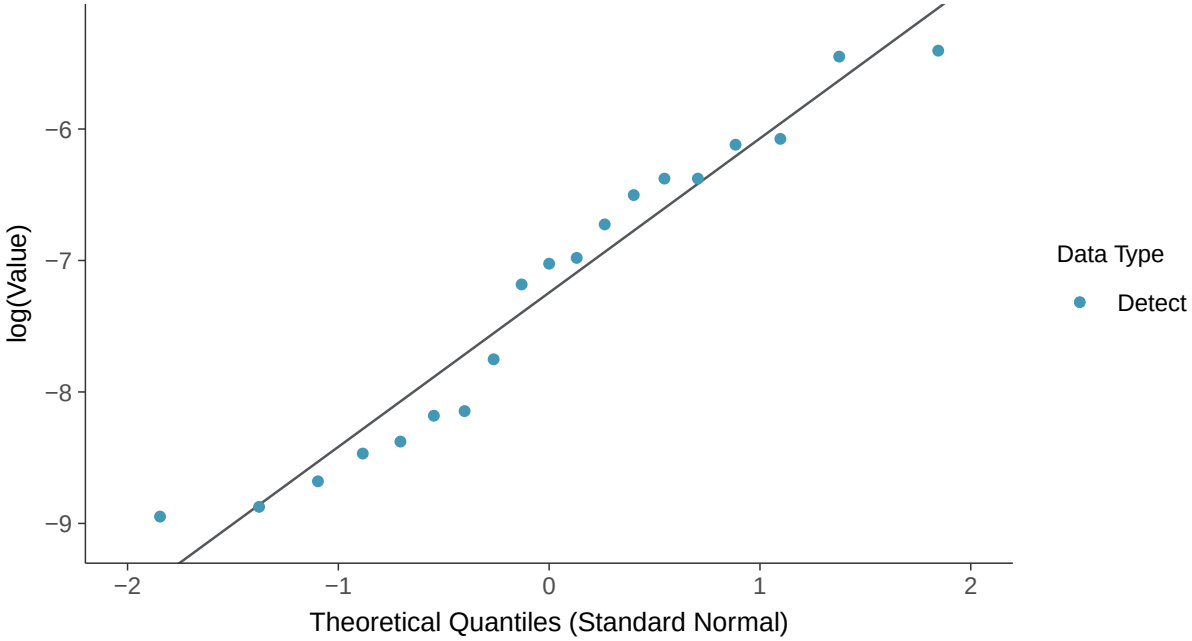
Normal Q-Q plot

Selenium, MW-12 (mg/L)



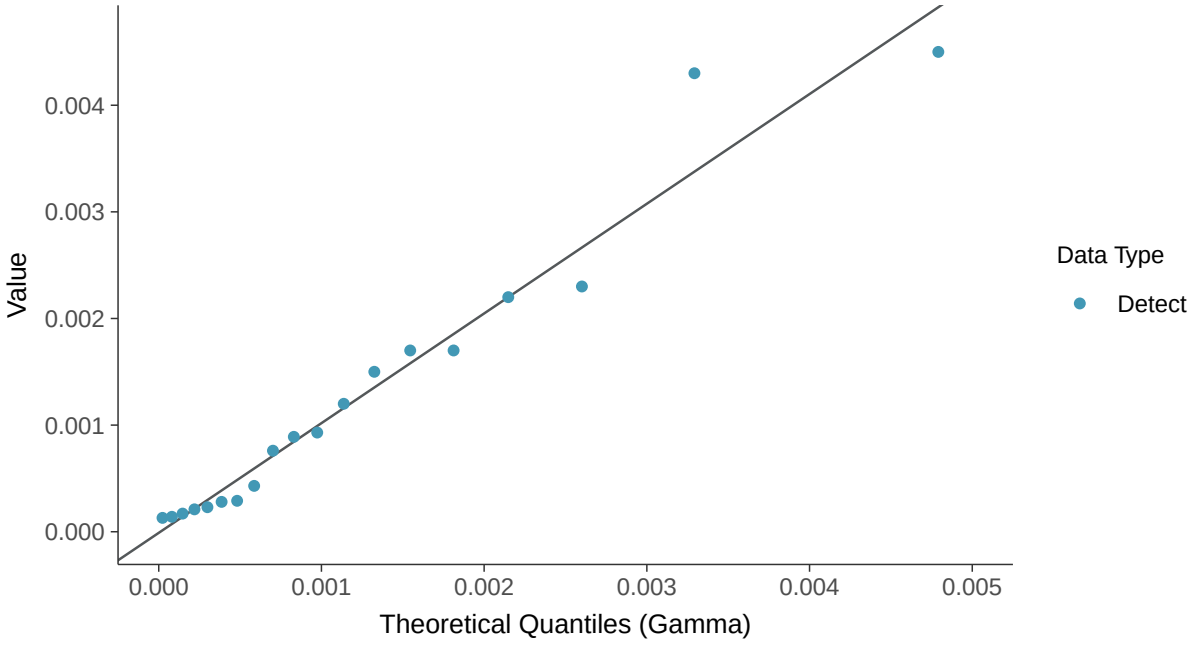
Lognormal Q-Q plot

Selenium, MW-12 (mg/L)



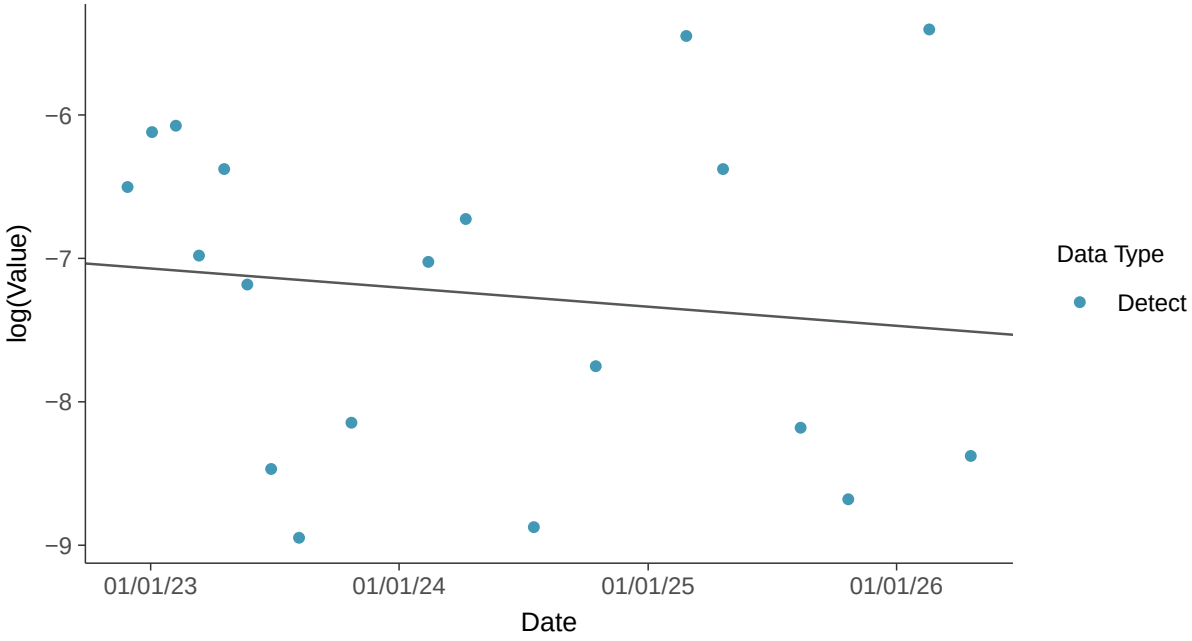
Gamma Q-Q plot

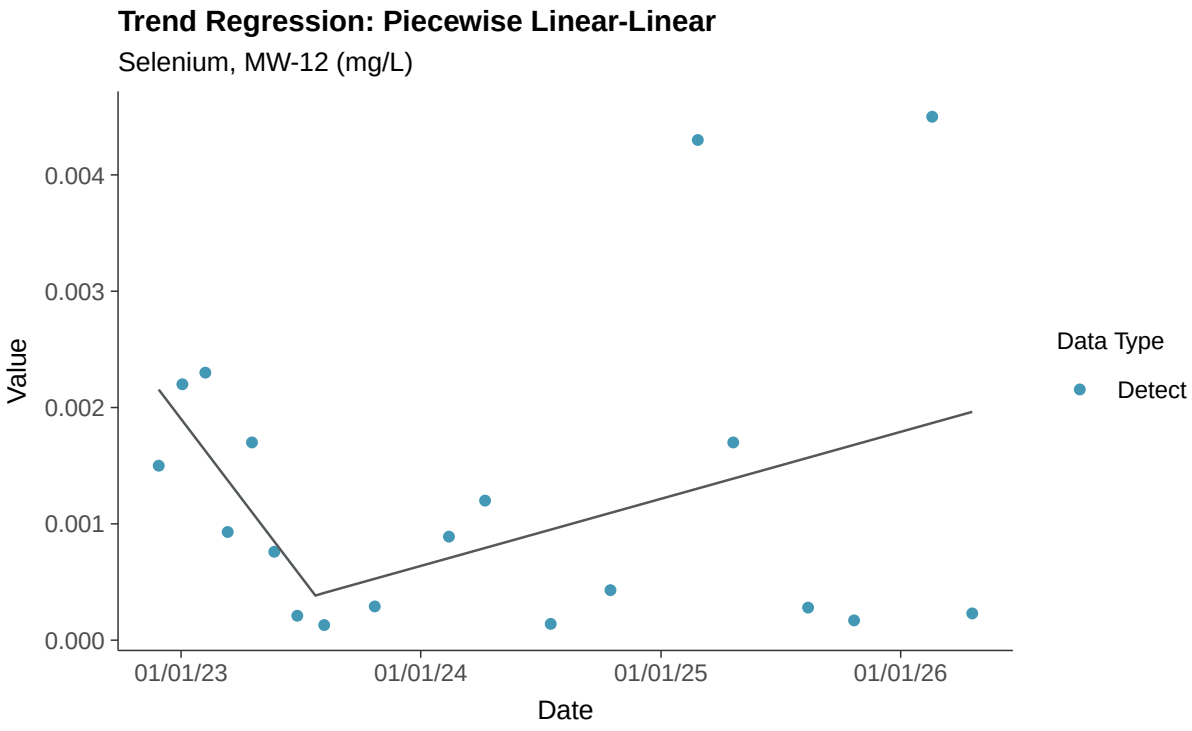
Selenium, MW-12 (mg/L)



Trend Regression: Lognormal MLE

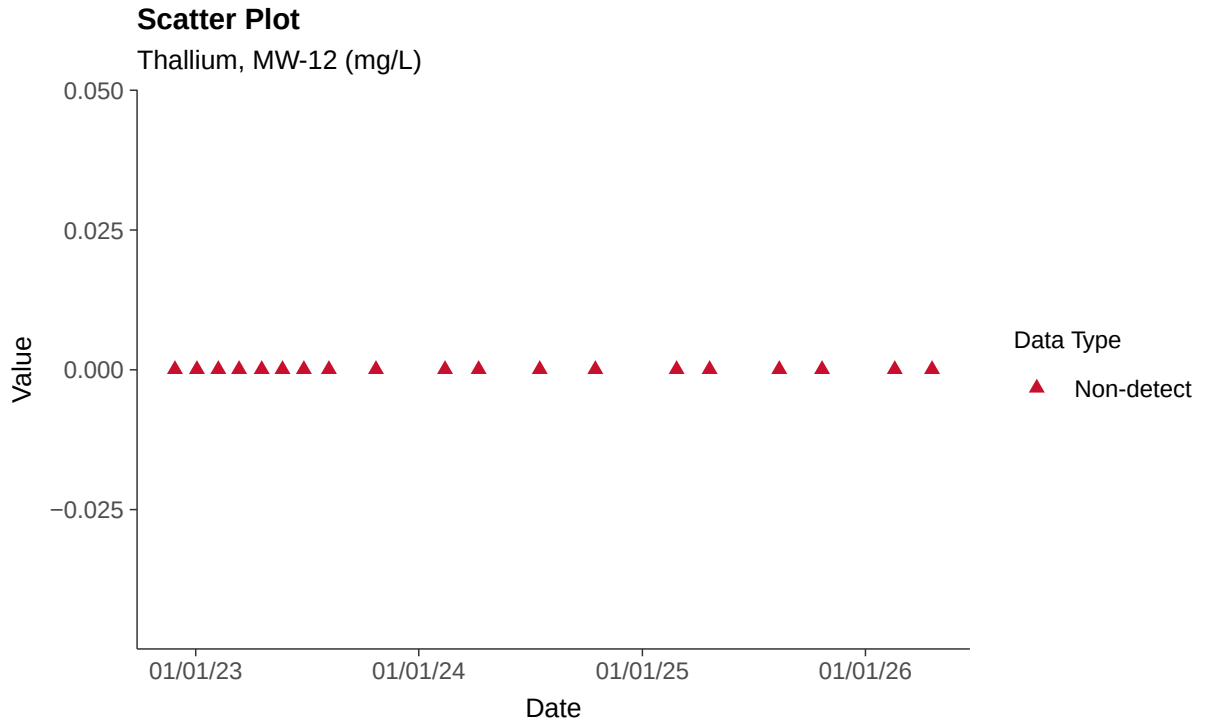
Selenium, MW-12 (mg/L)

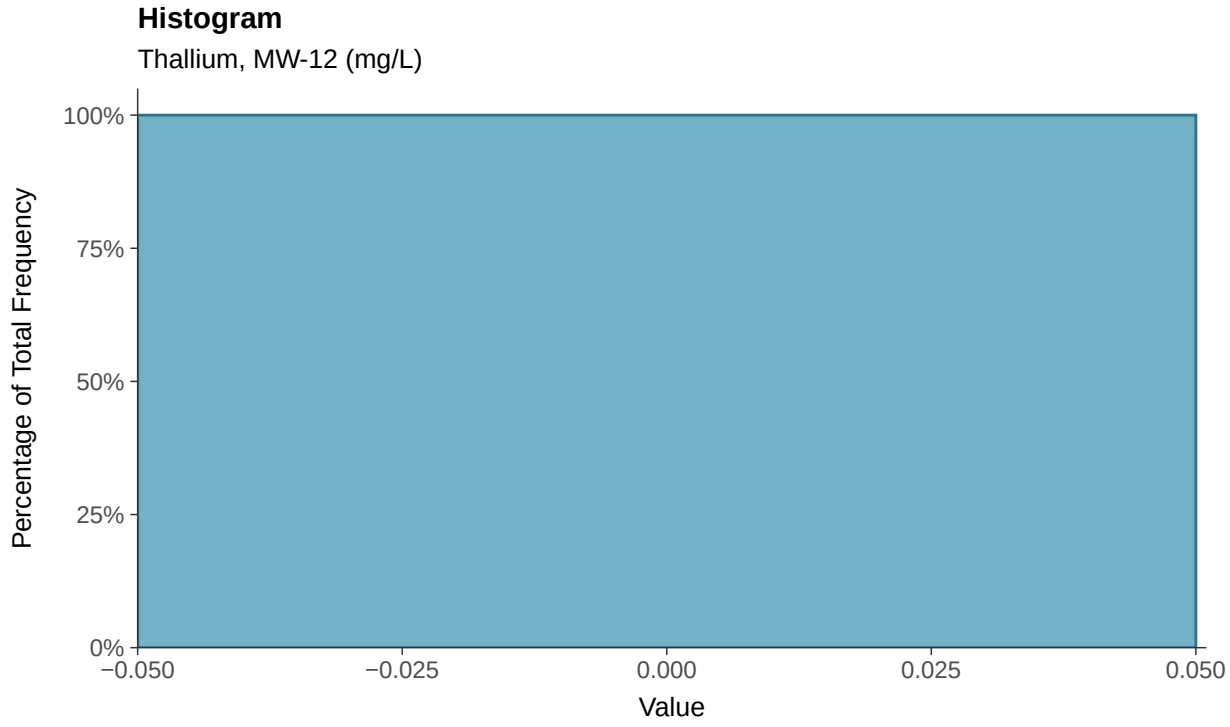



Trend Regression: Piecewise Linear-Linear
Selenium, MW-12 (mg/L)
Value
0.004
0.003
0.002
0.001
0.000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Thallium, MW-12

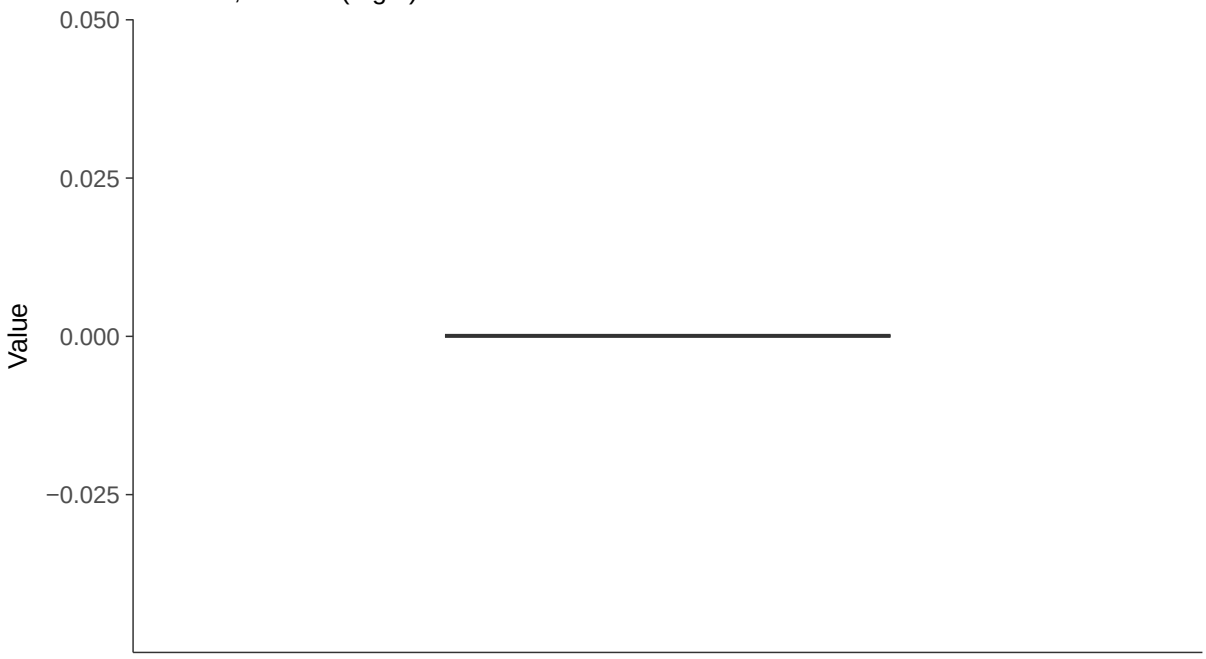
ID: 22_2_4_125





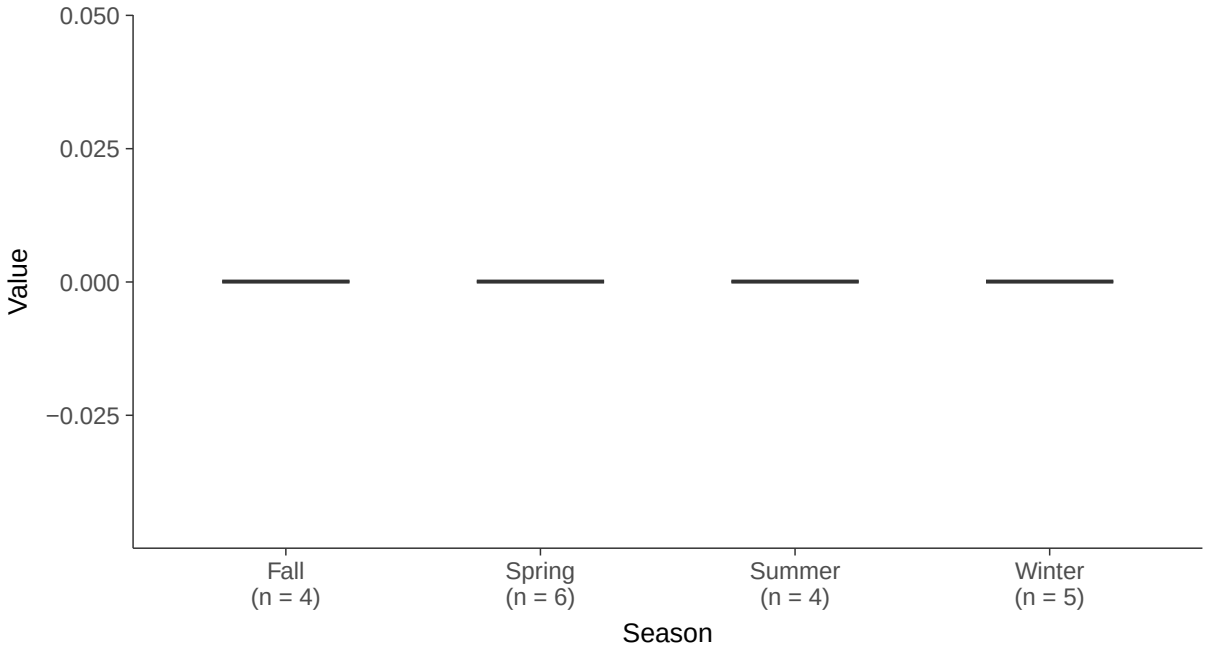
Boxplot

Thallium, MW-12 (mg/L)



Boxplot by Season

Thallium, MW-12 (mg/L)

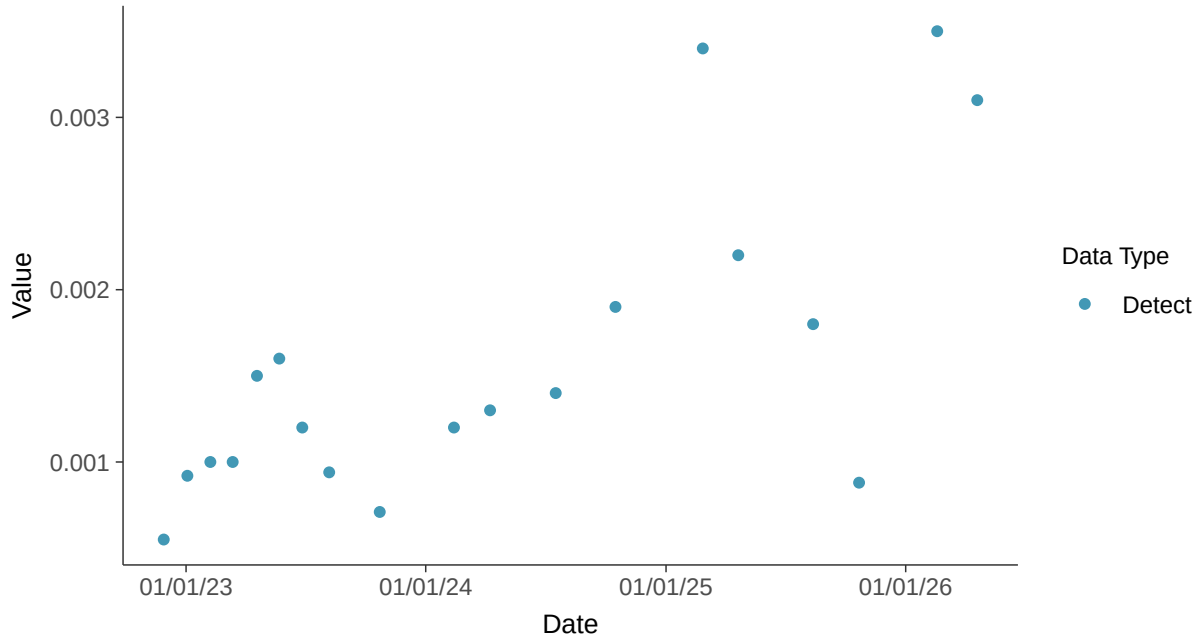


Part 115: Copper, MW-12

ID: 22_2_5_111

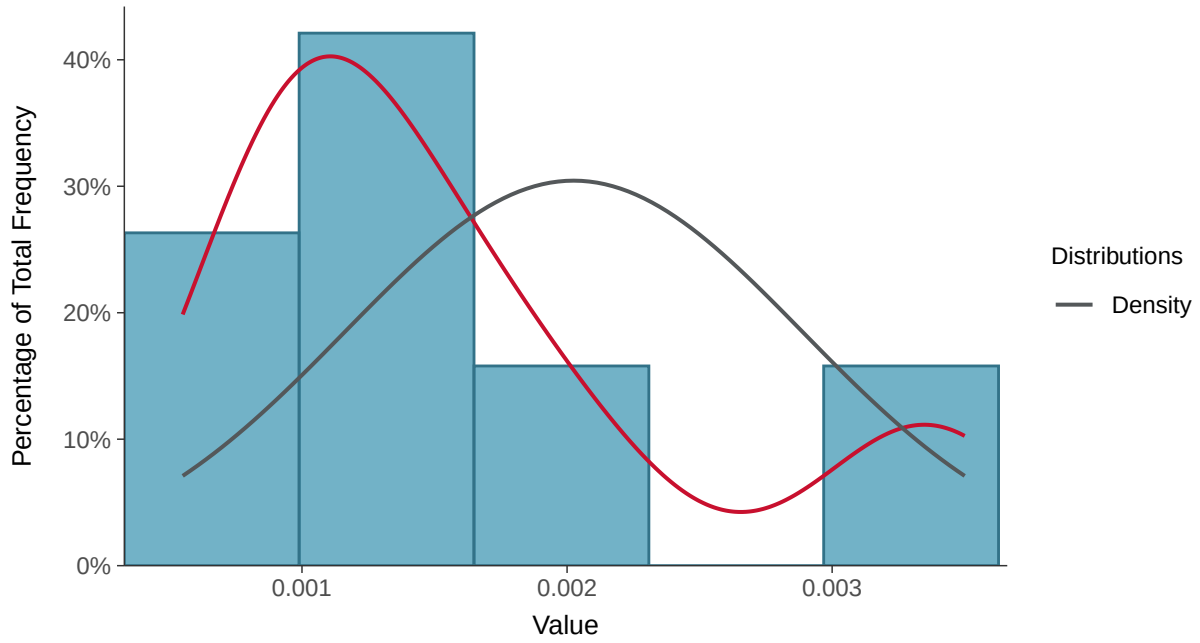
Scatter Plot

Copper, MW-12 (mg/L)



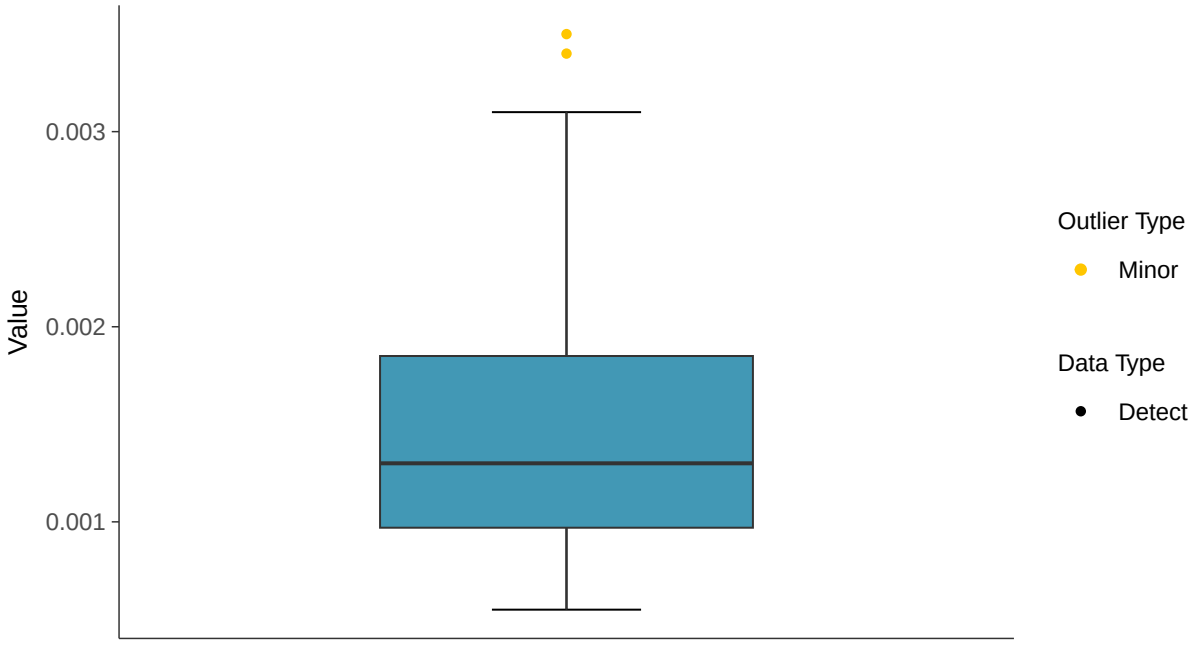
Histogram

Copper, MW-12 (mg/L)



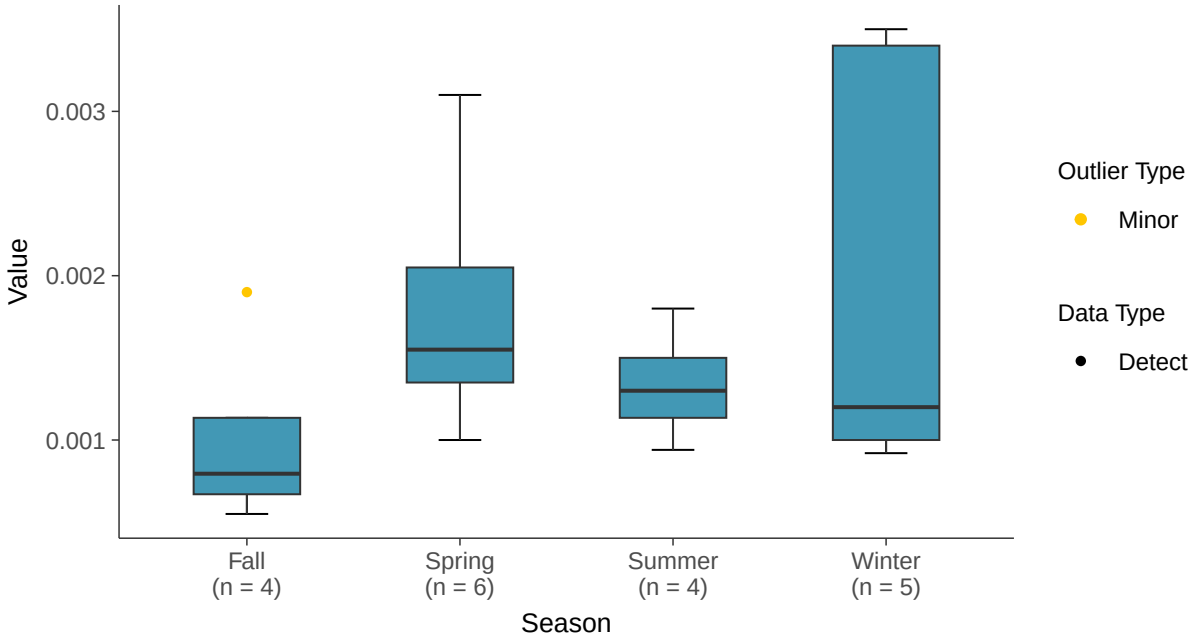
Boxplot

Copper, MW-12 (mg/L)



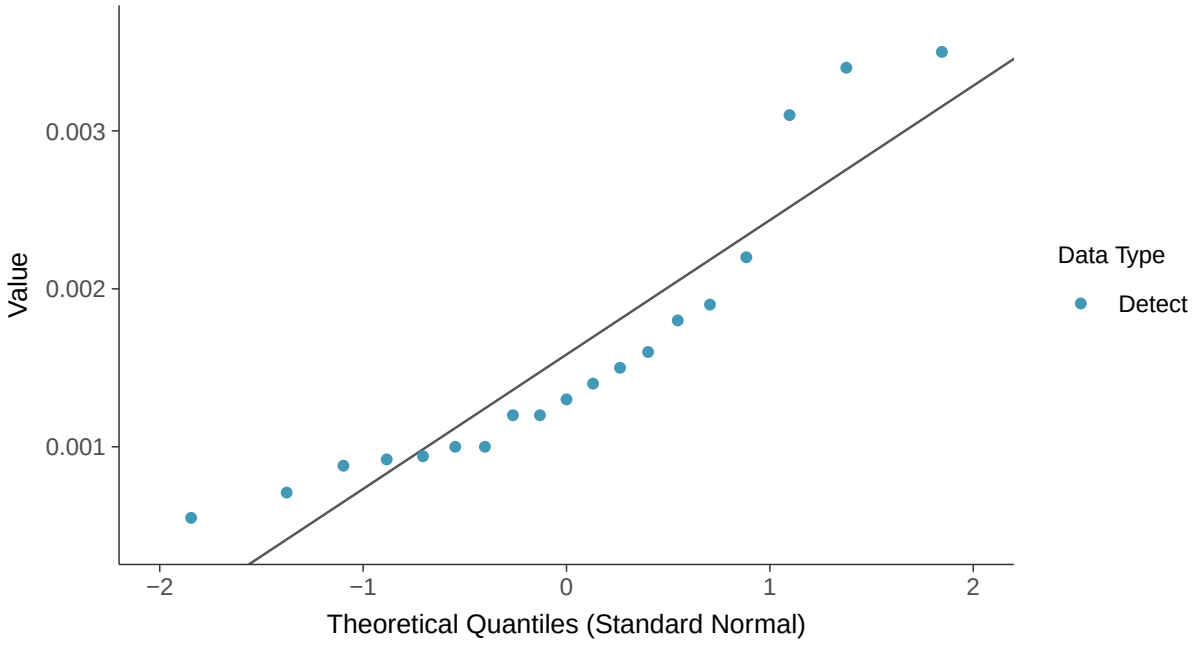
Boxplot by Season

Copper, MW-12 (mg/L)



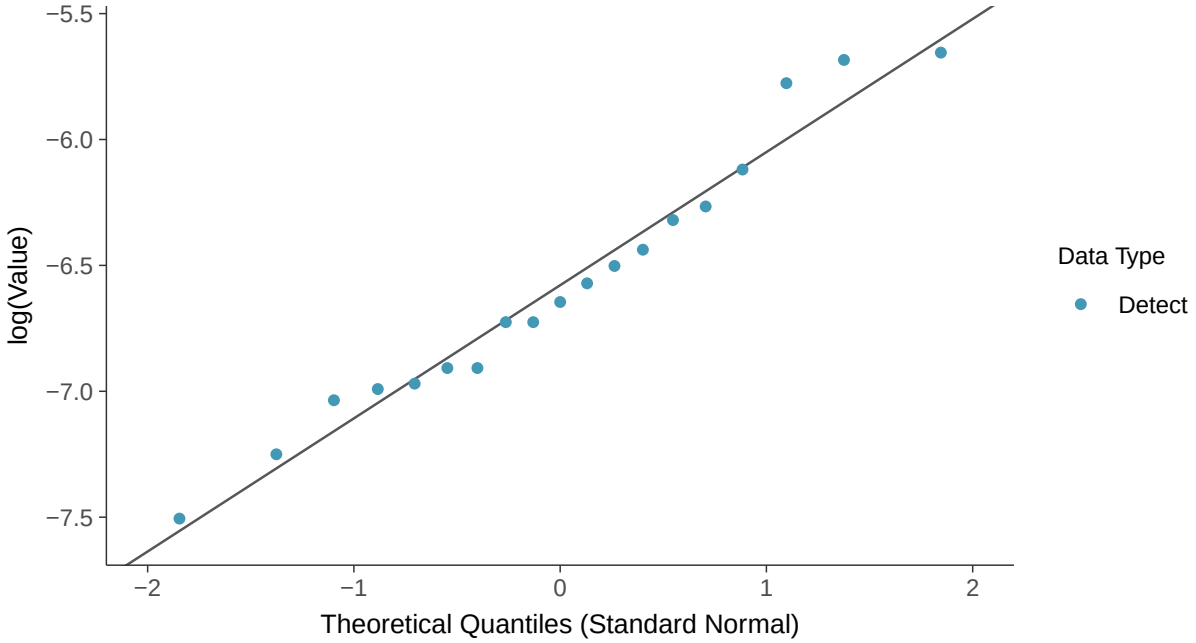
Normal Q-Q plot

Copper, MW-12 (mg/L)



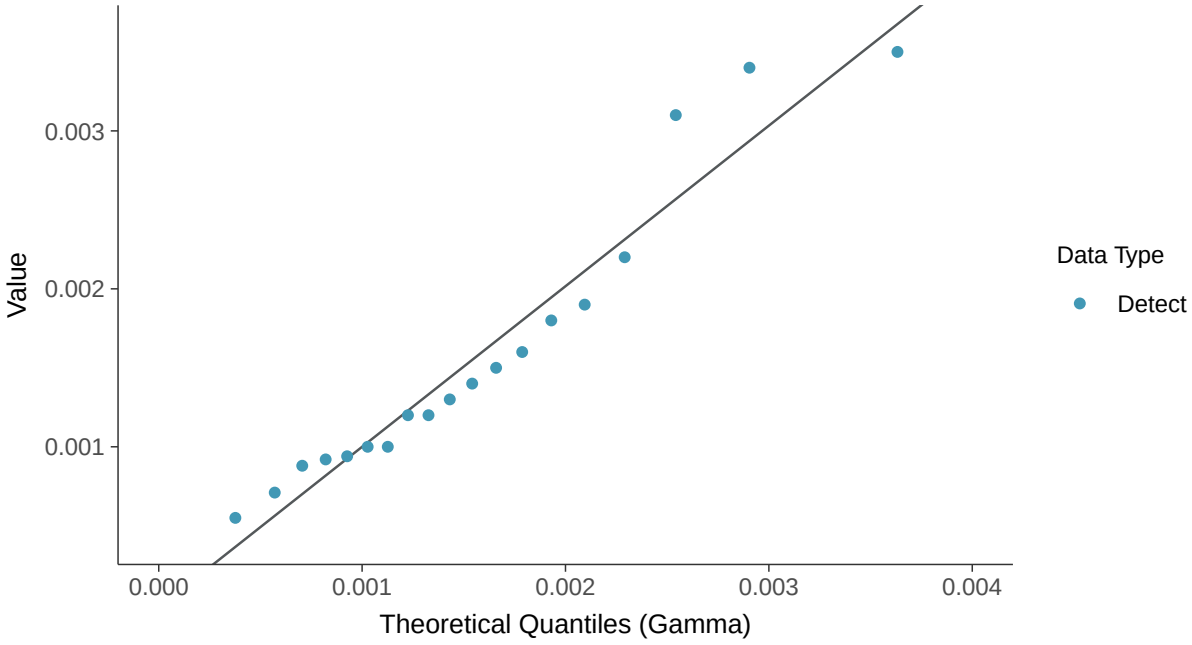
Lognormal Q-Q plot

Copper, MW-12 (mg/L)



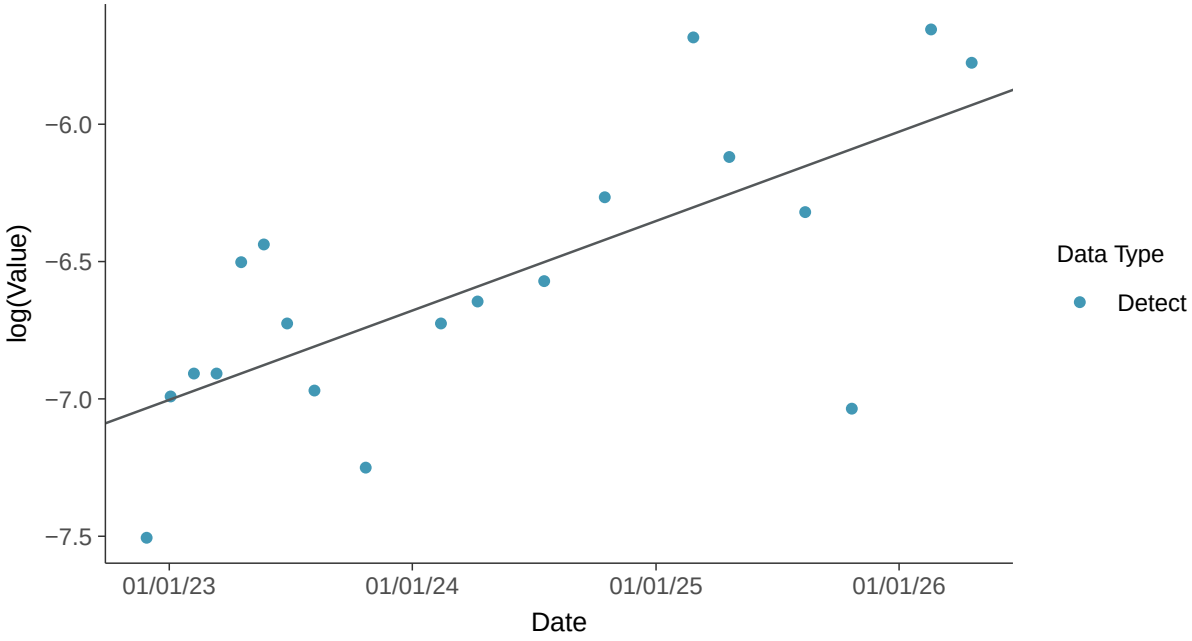
Gamma Q-Q plot

Copper, MW-12 (mg/L)



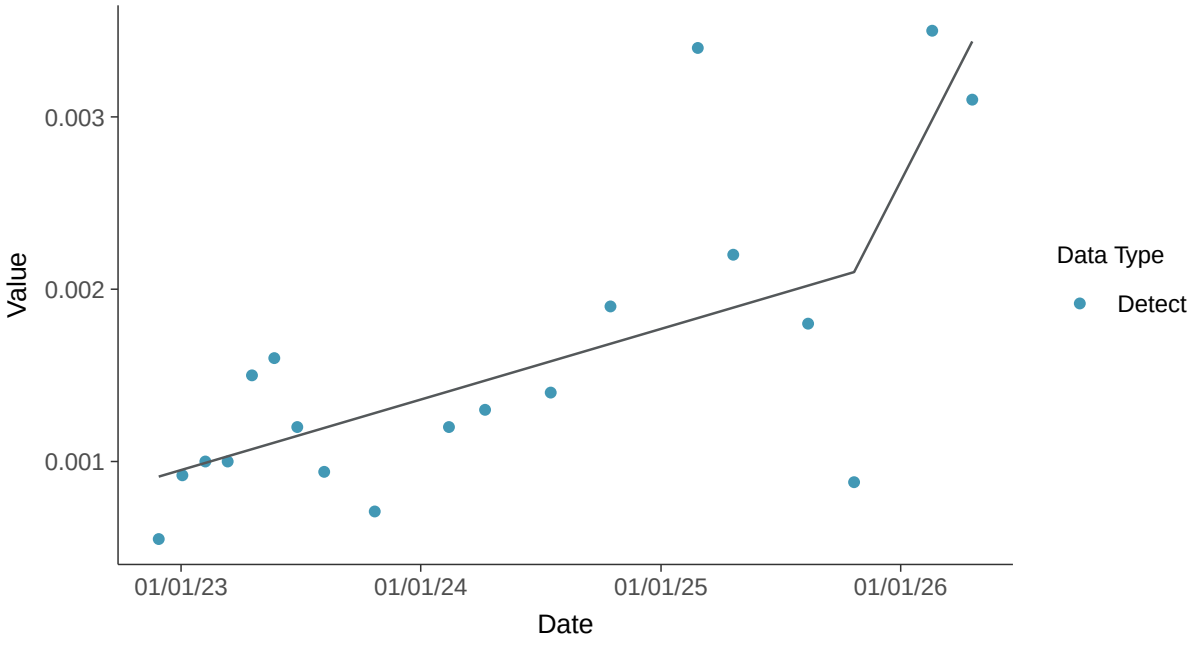
Trend Regression: Lognormal MLE

Copper, MW-12 (mg/L)



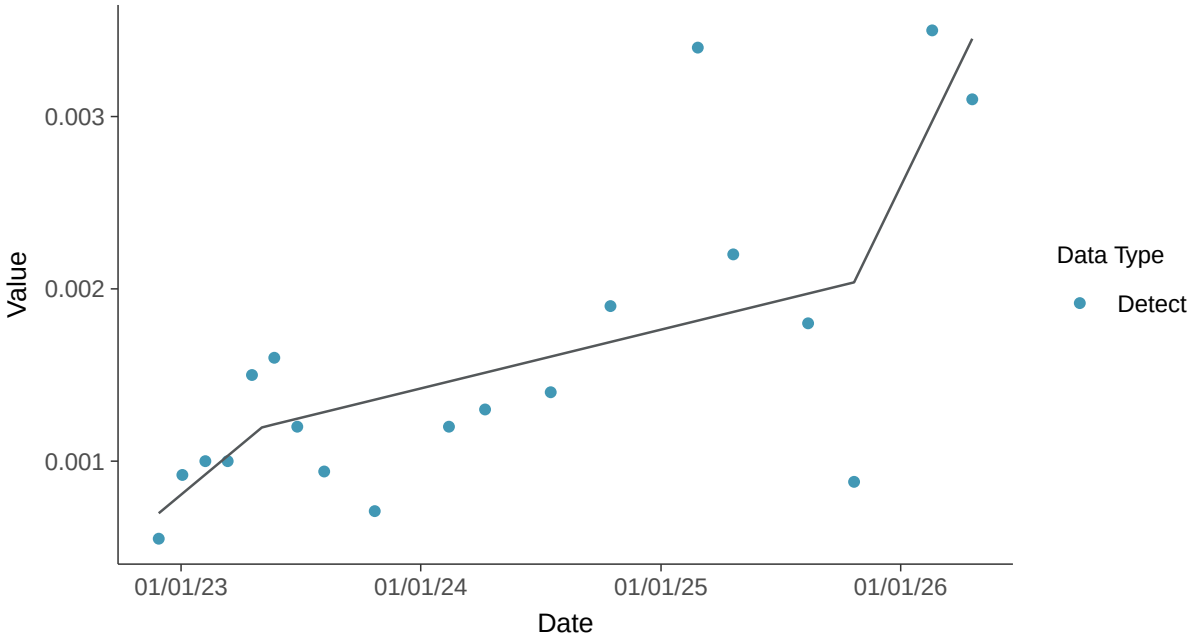
Trend Regression: Piecewise Linear-Linear

Copper, MW-12 (mg/L)



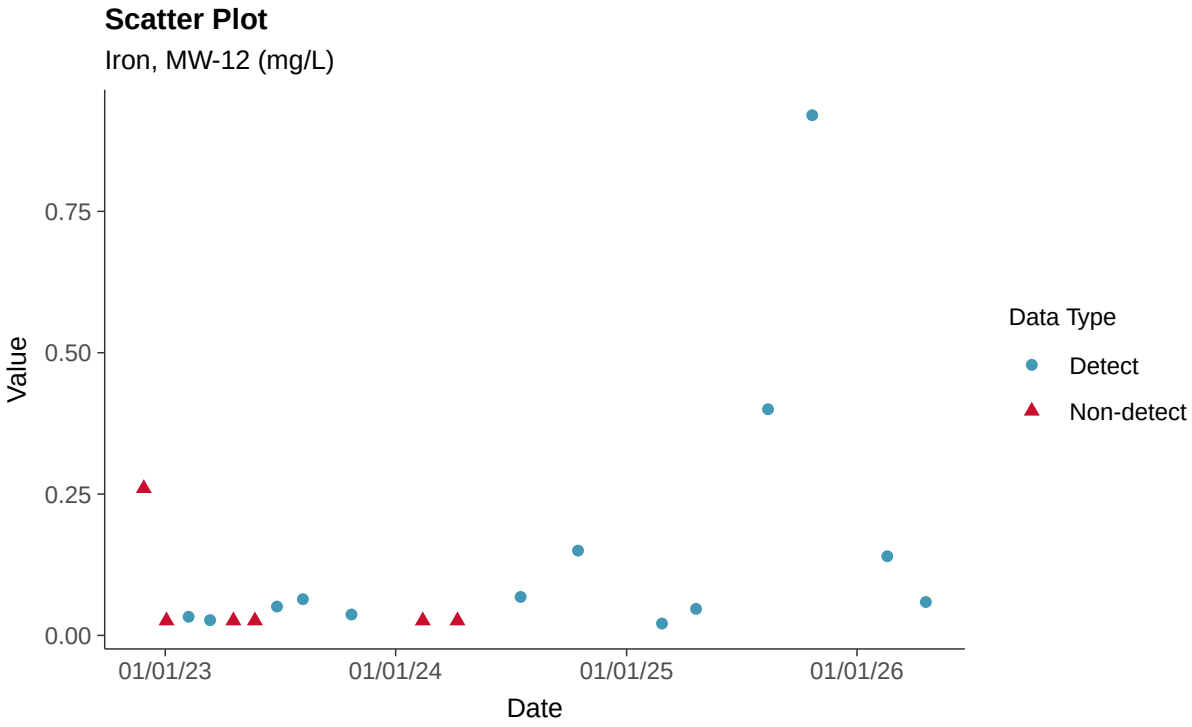
Trend Regression: Piecewise Linear-Linear-Linear

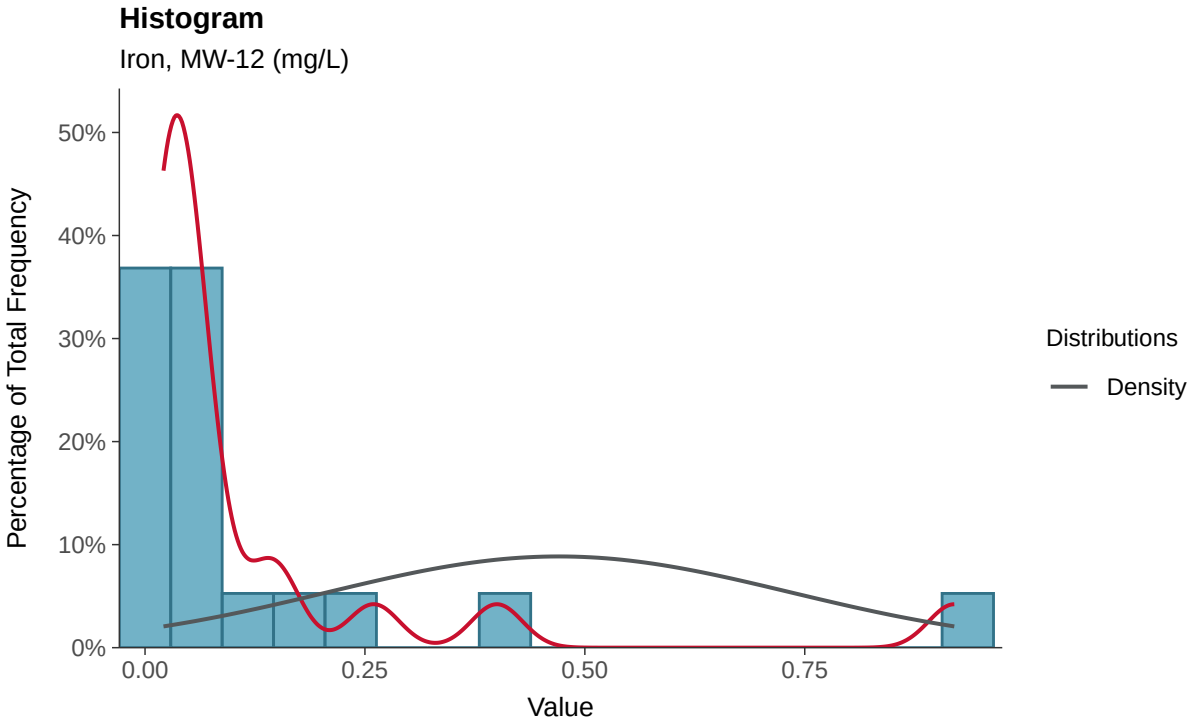
Copper, MW-12 (mg/L)



Part 115: Iron, MW-12

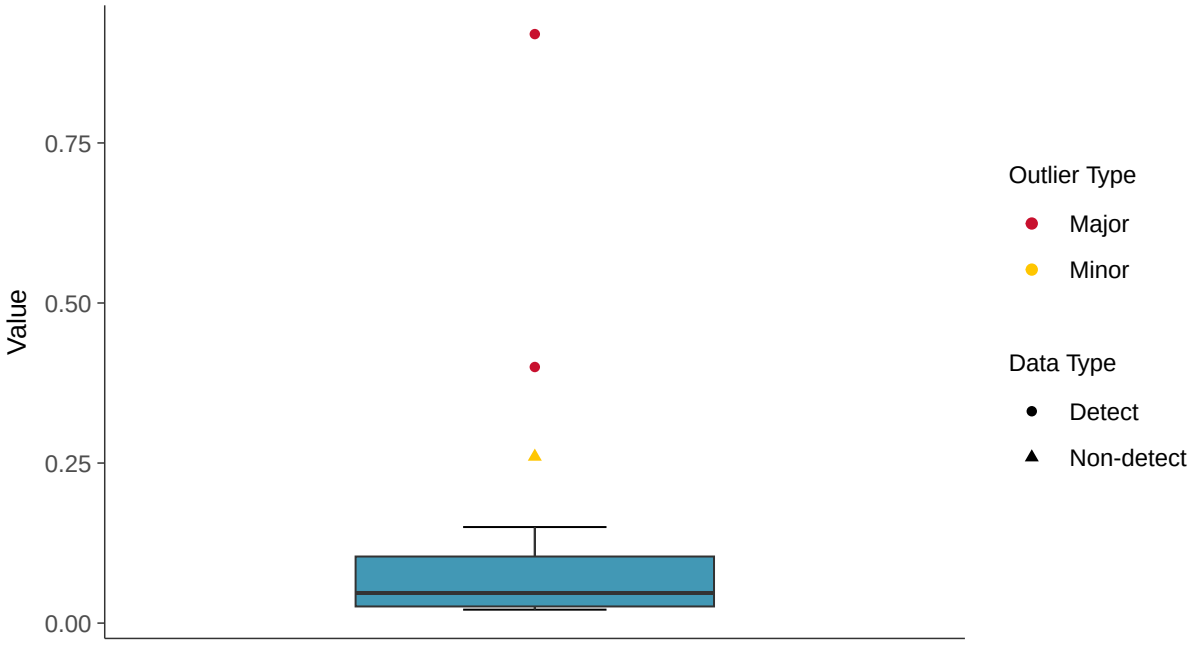
ID: 22_2_5_114





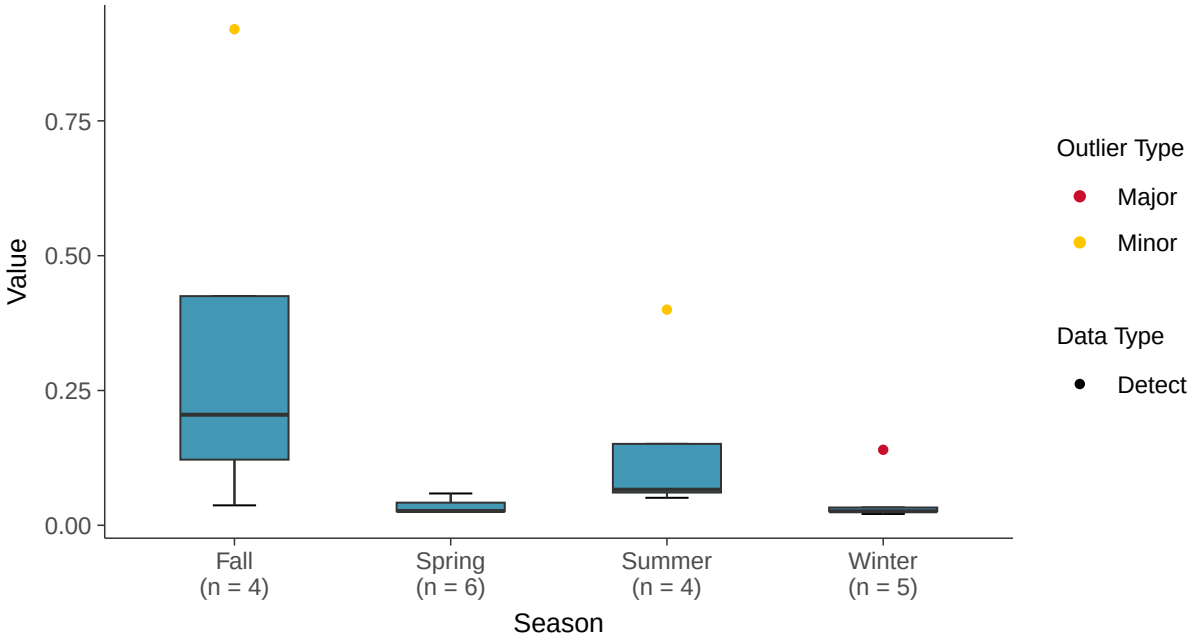
Boxplot

Iron, MW-12 (mg/L)



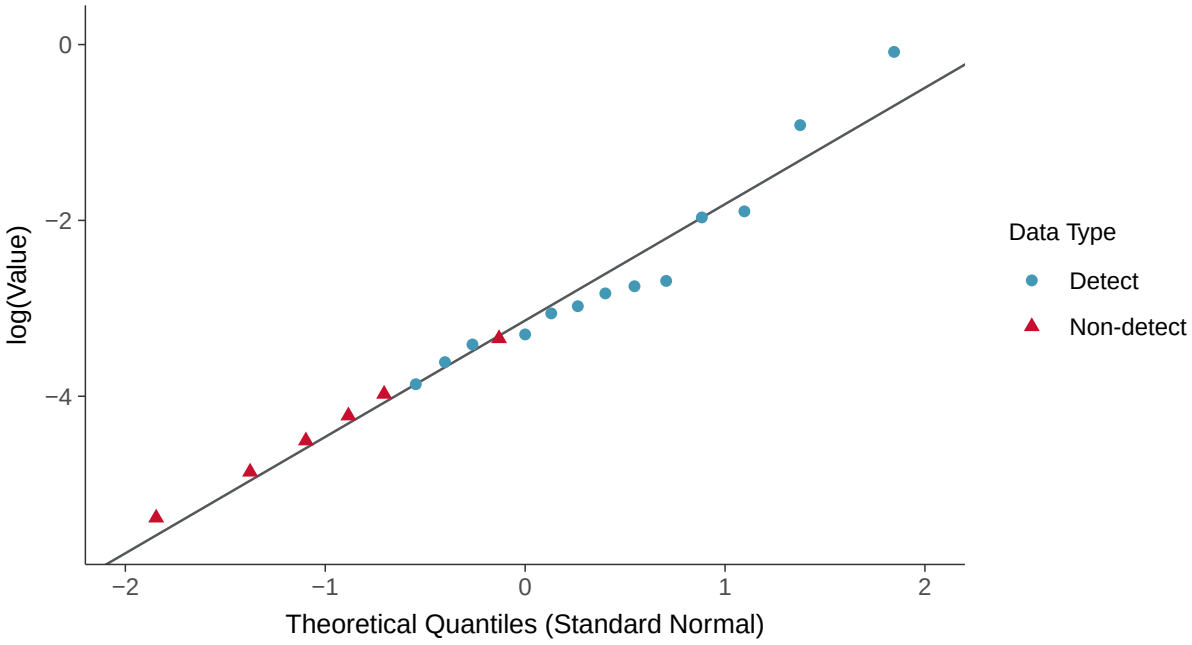
Boxplot by Season

Iron, MW-12 (mg/L)



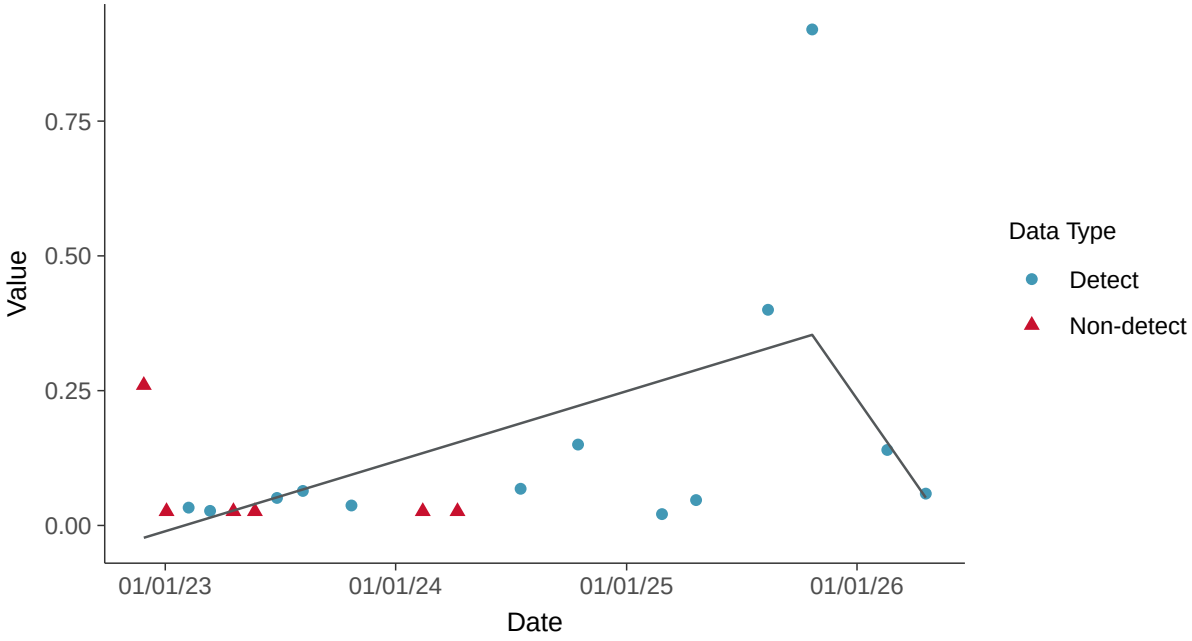
Lognormal Q-Q plot using ROS Imputed Estimates

Iron, MW-12 (mg/L)



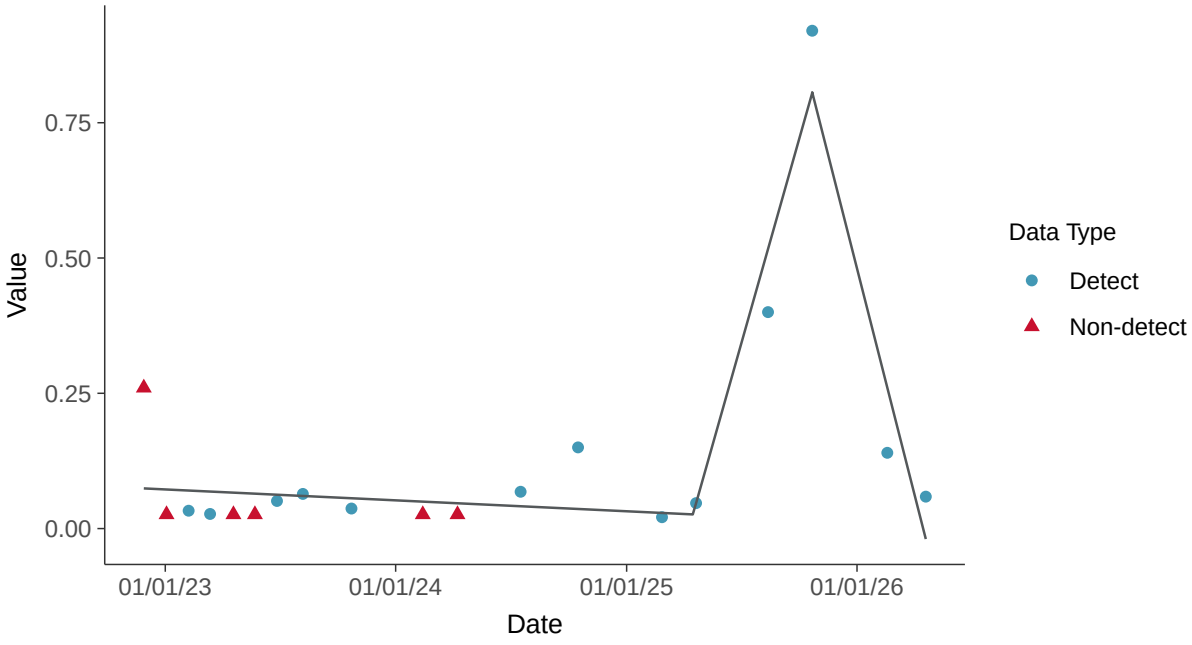
Trend Regression: Piecewise Linear-Linear

Iron, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-12 (mg/L)

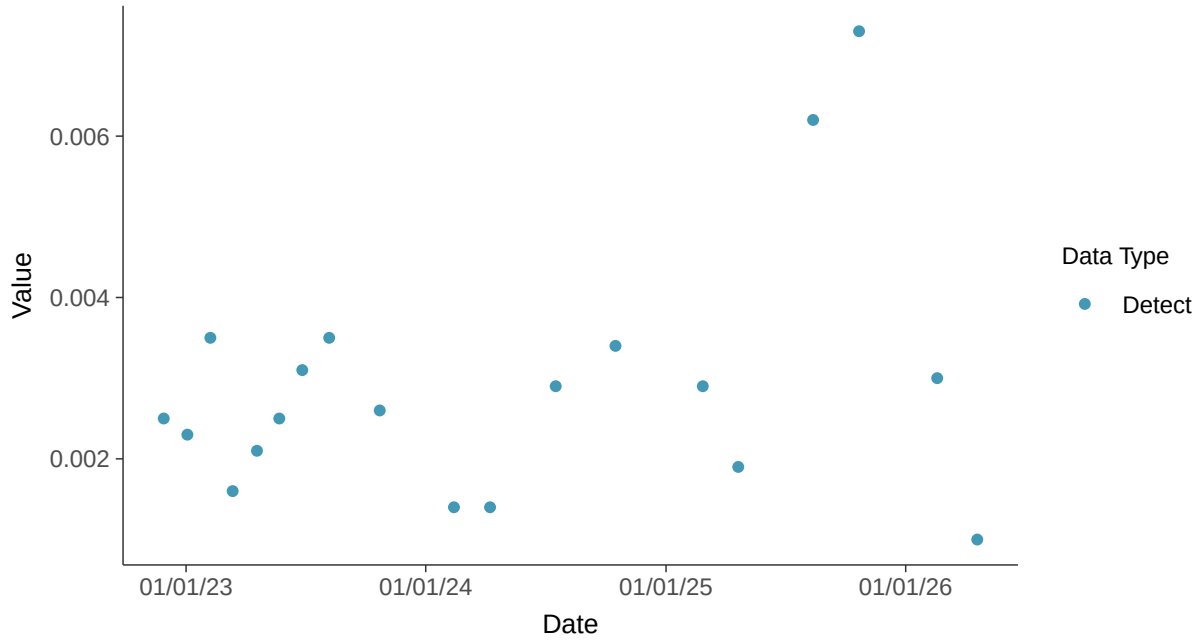


Part 115: Nickel, MW-12

ID: 22_2_5_119

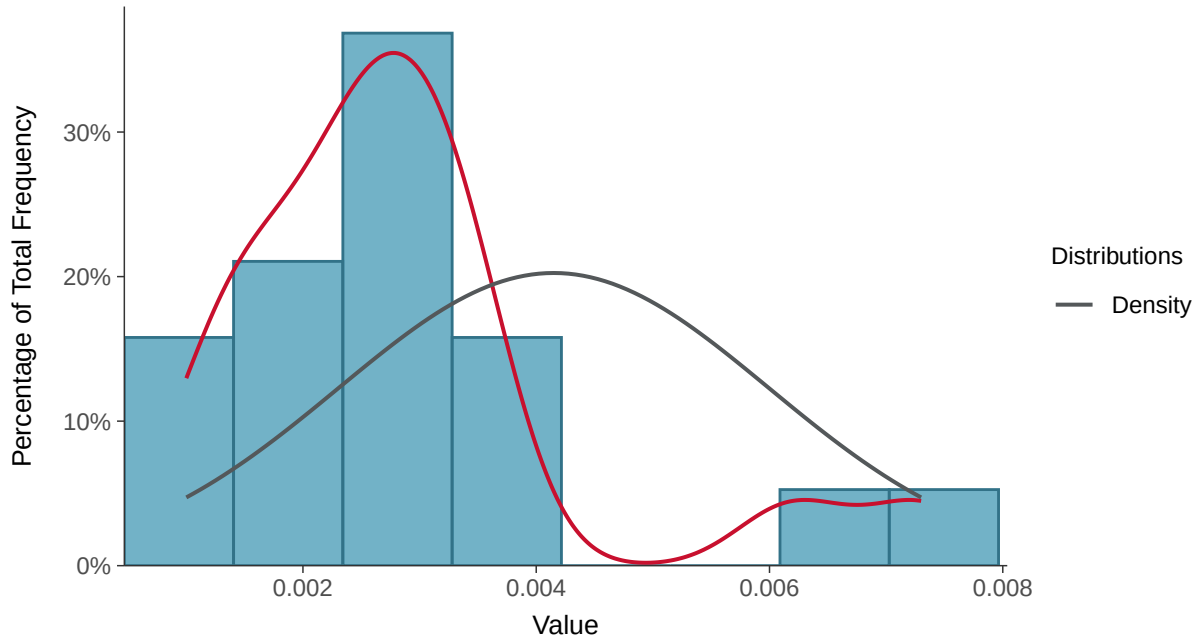
Scatter Plot

Nickel, MW-12 (mg/L)



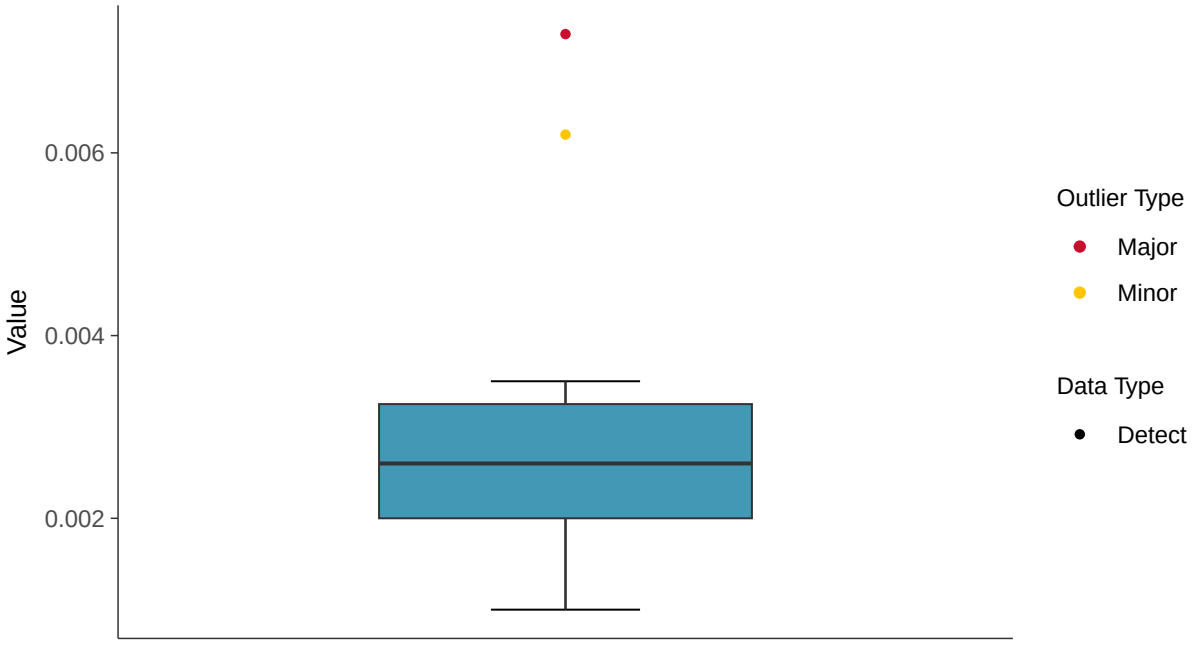
Histogram

Nickel, MW-12 (mg/L)



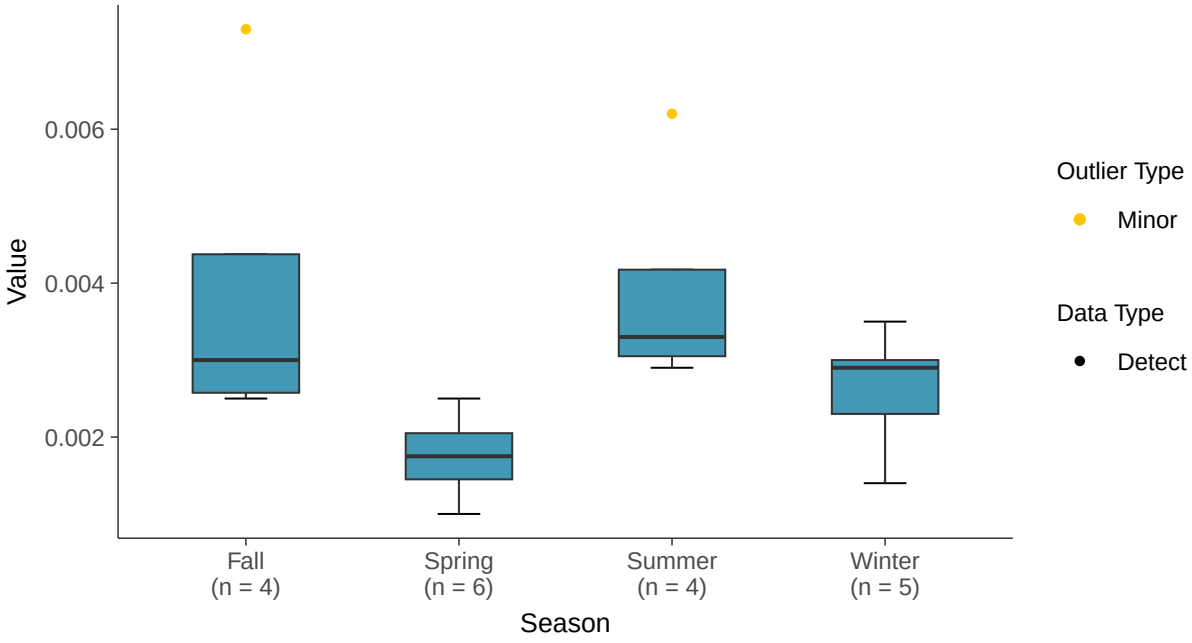
Boxplot

Nickel, MW-12 (mg/L)



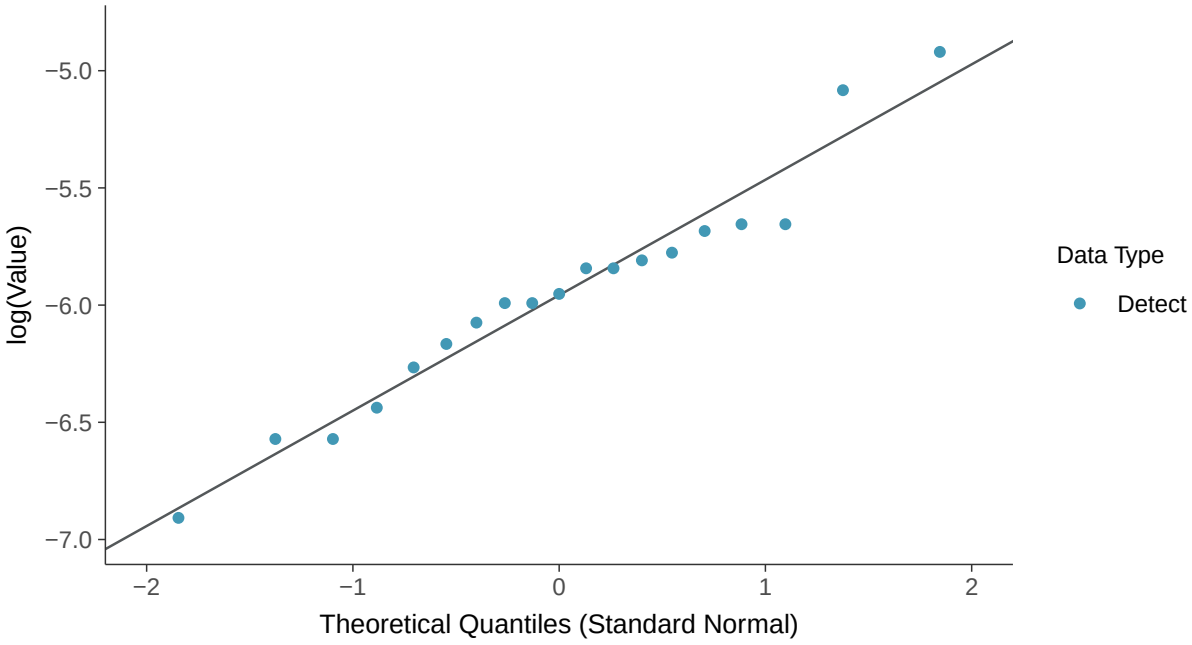
Boxplot by Season

Nickel, MW-12 (mg/L)



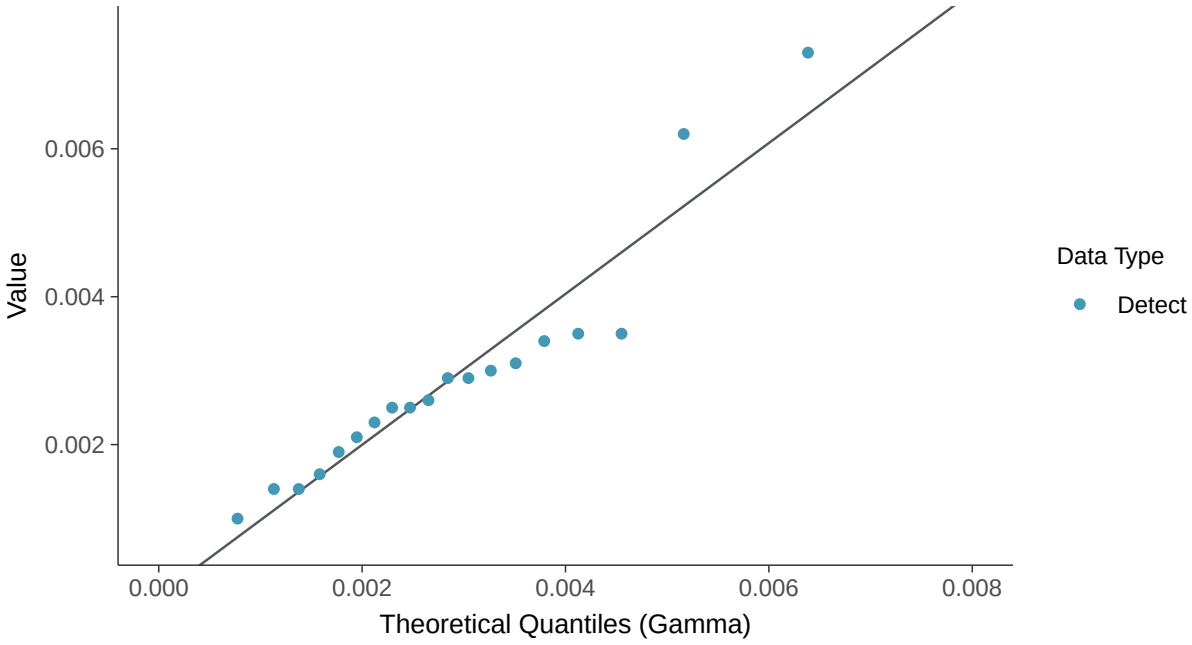
Lognormal Q-Q plot

Nickel, MW-12 (mg/L)



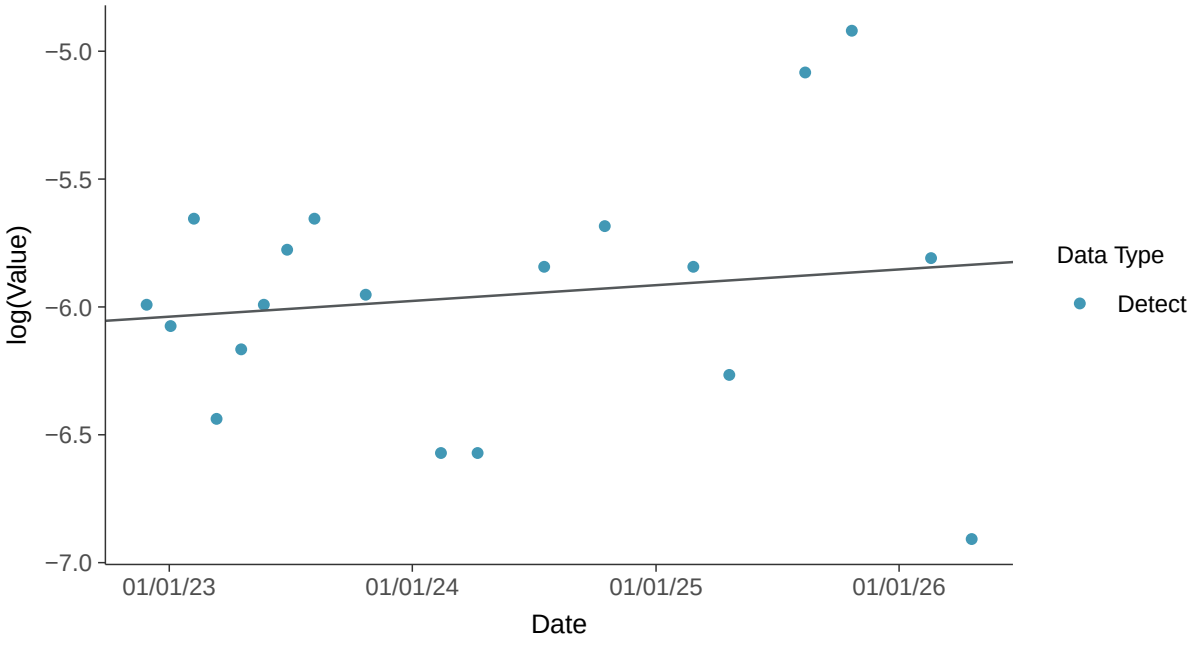
Gamma Q-Q plot

Nickel, MW-12 (mg/L)



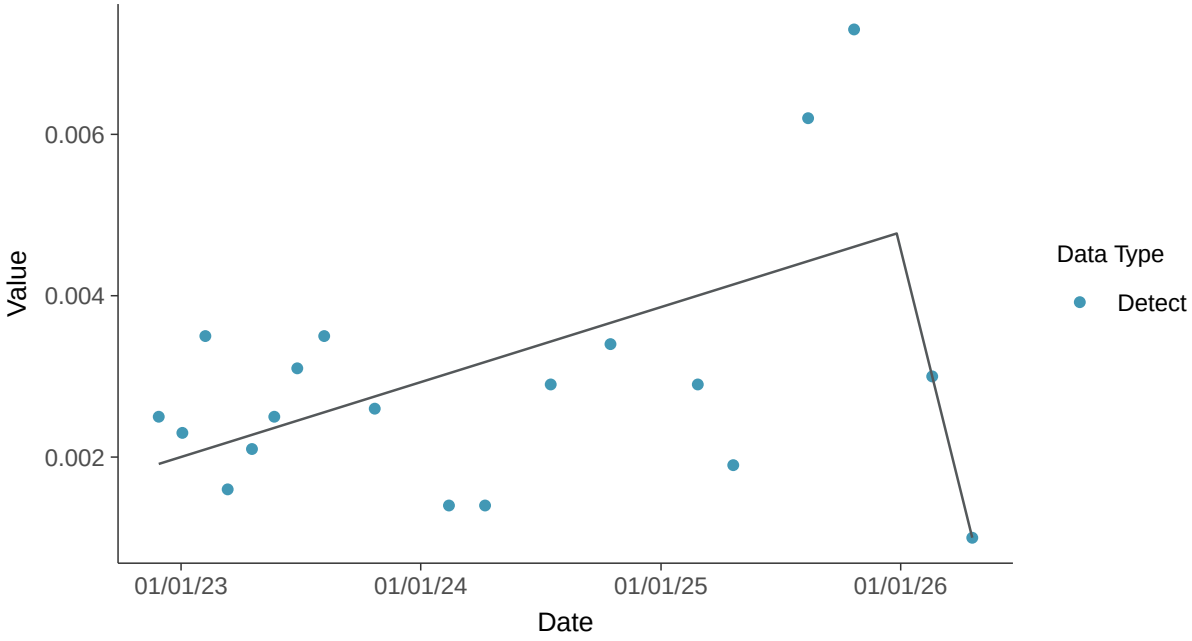
Trend Regression: Lognormal MLE

Nickel, MW-12 (mg/L)



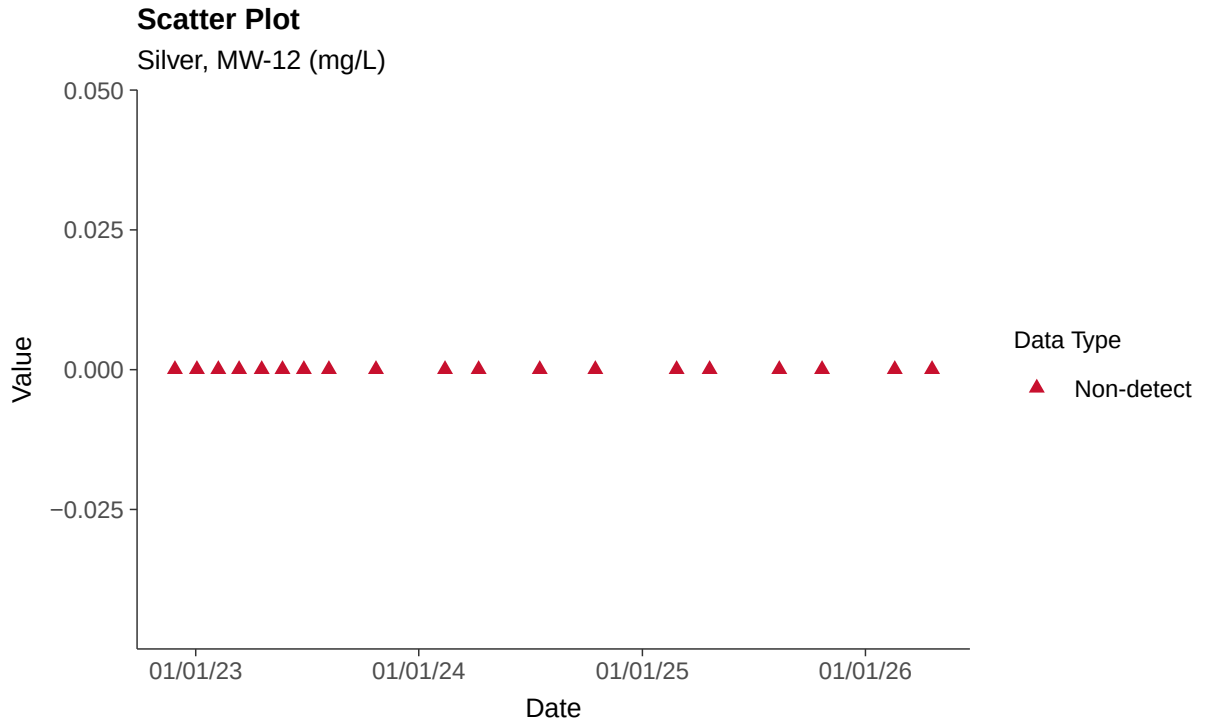
Trend Regression: Piecewise Linear-Linear

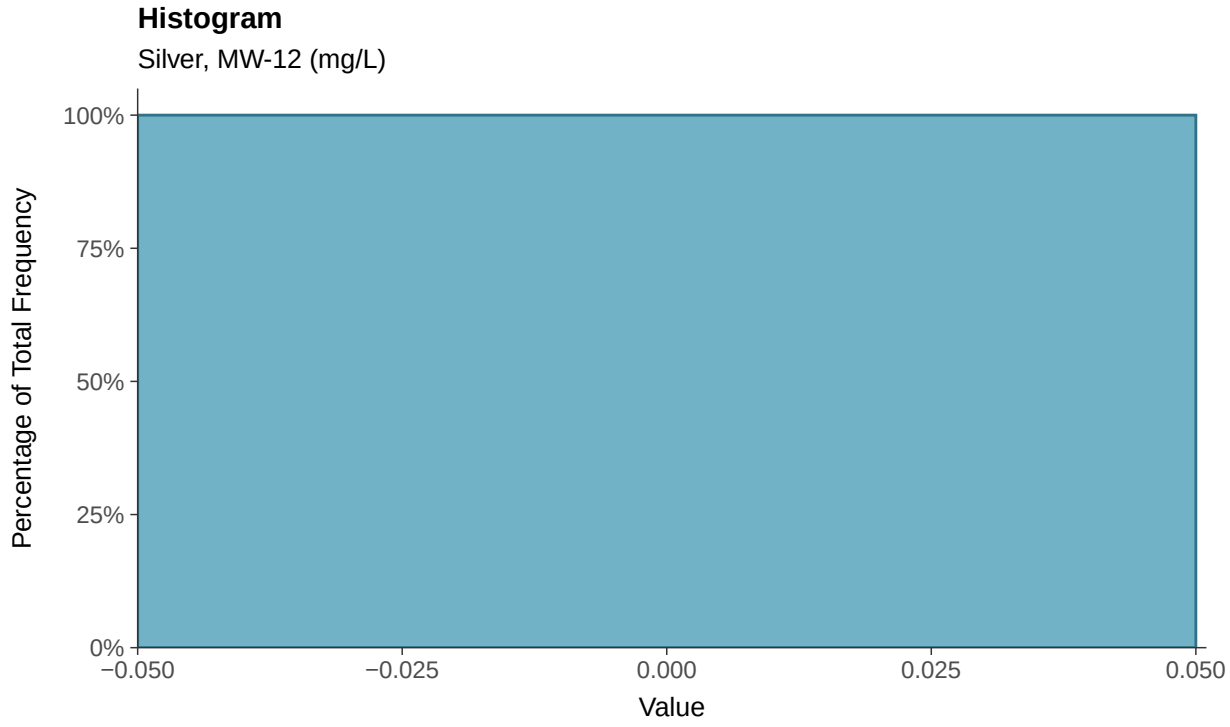
Nickel, MW-12 (mg/L)



Part 115: Silver, MW-12

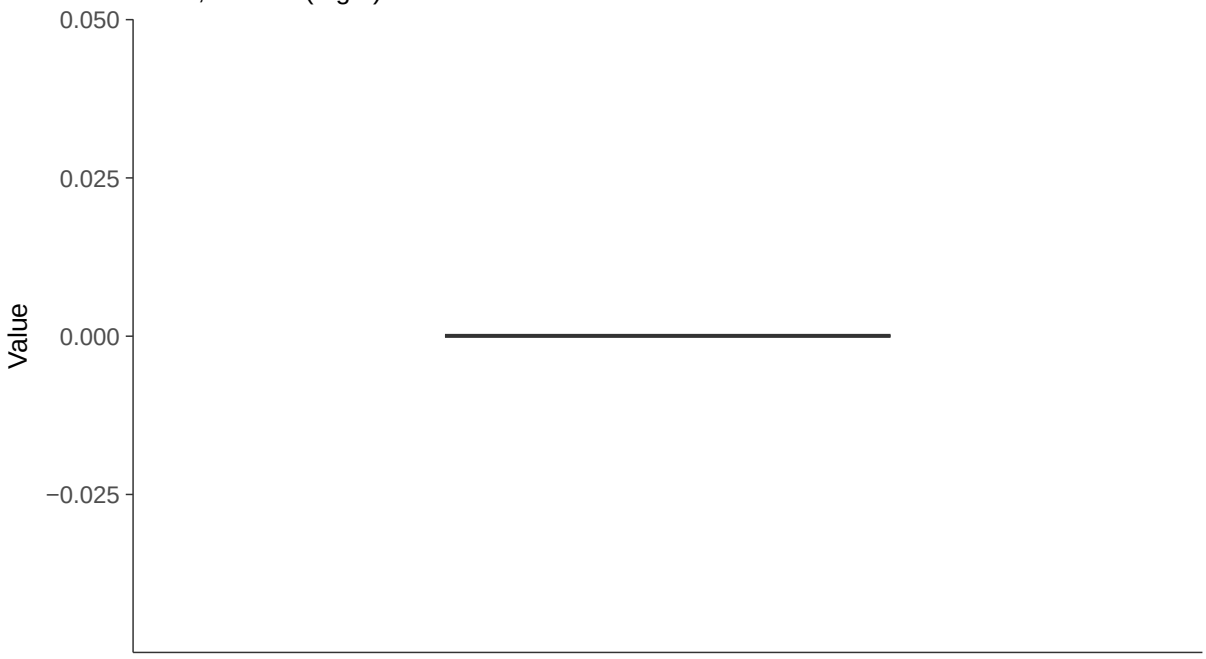
ID: 22_2_5_123





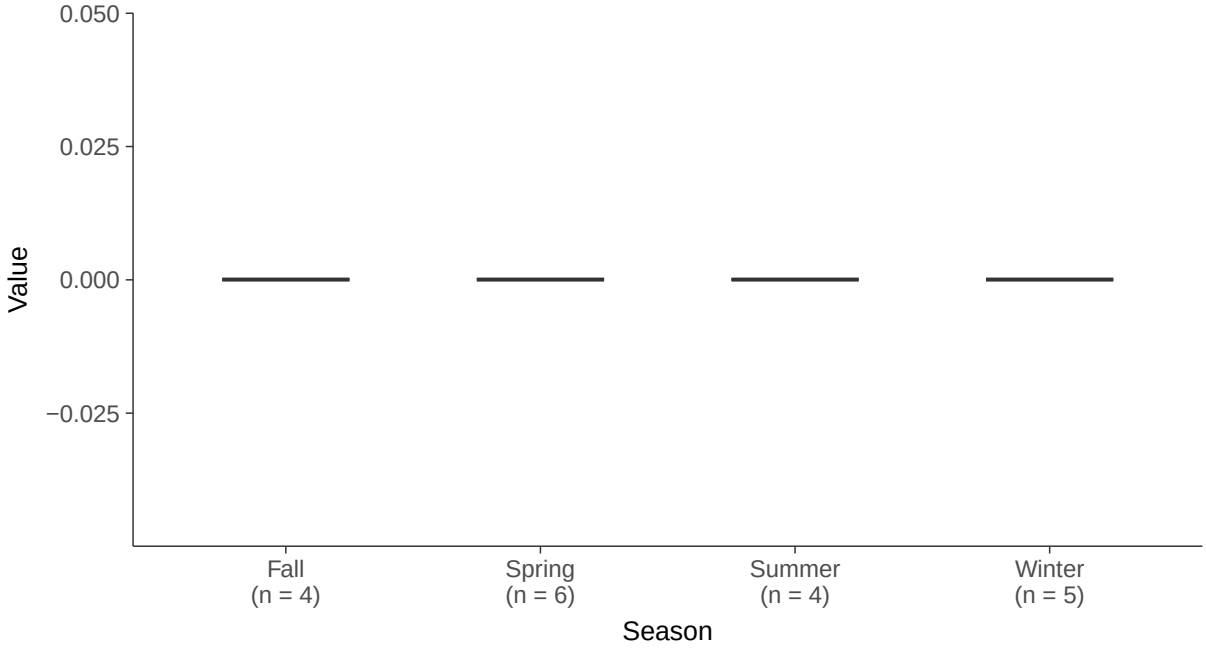
Boxplot

Silver, MW-12 (mg/L)



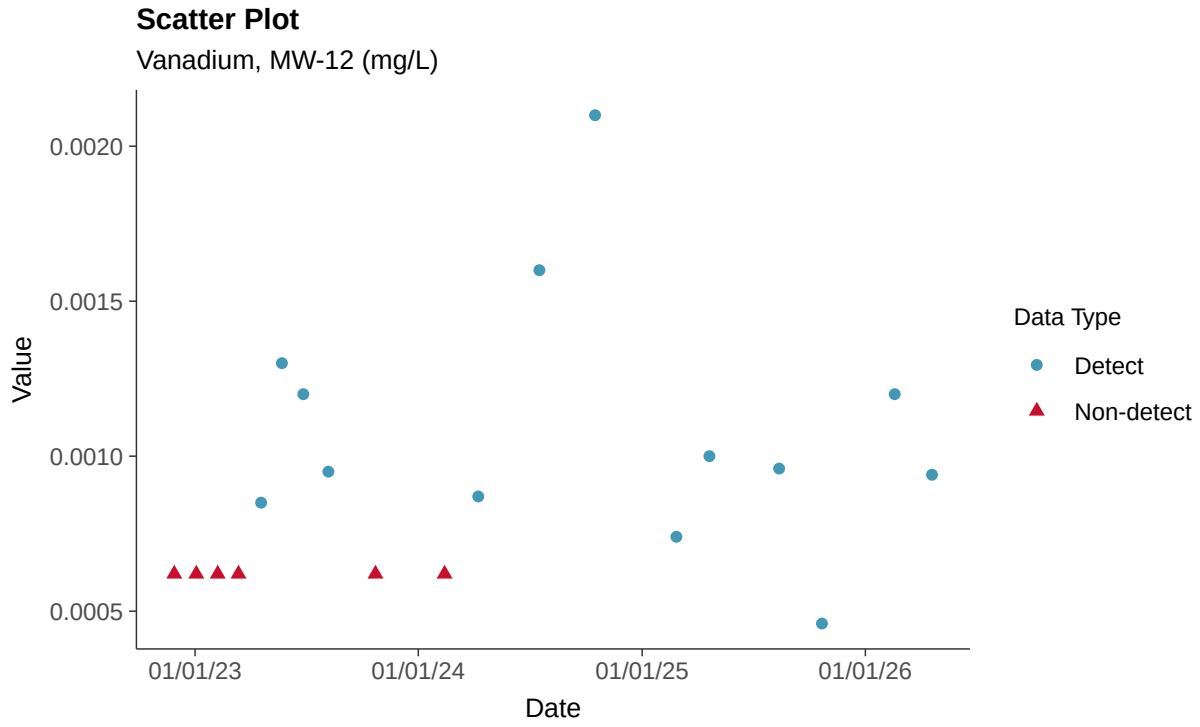
Boxplot by Season

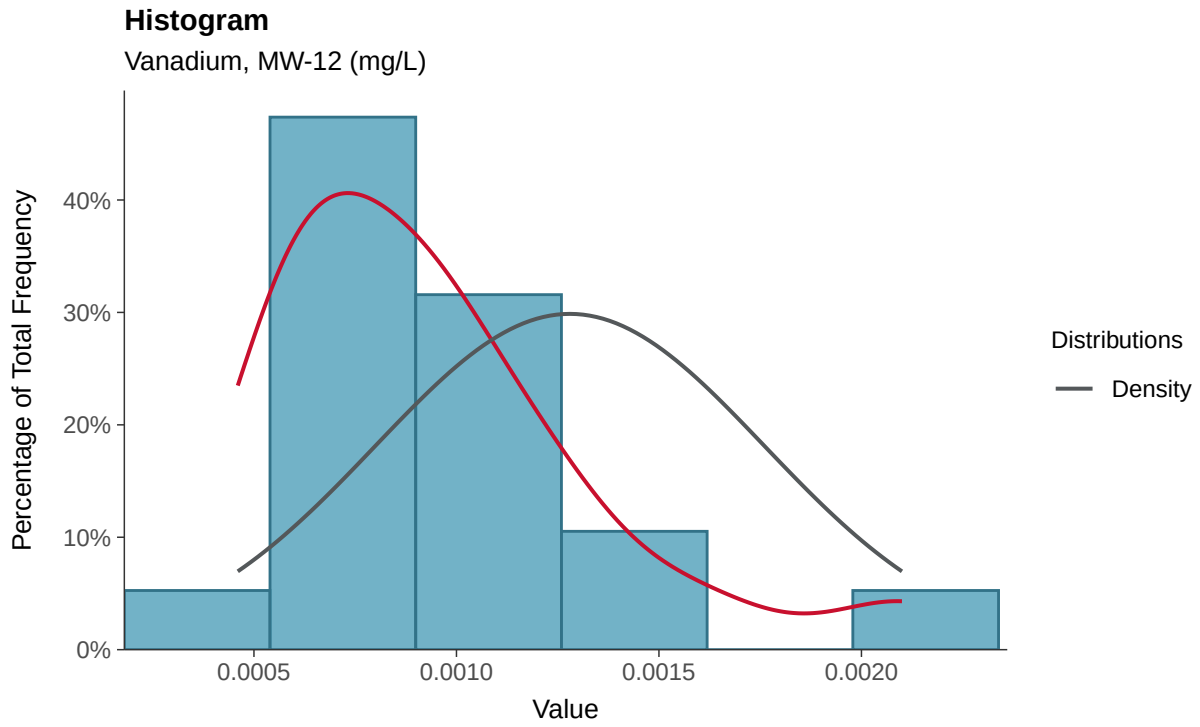
Silver, MW-12 (mg/L)



Part 115: Vanadium, MW-12

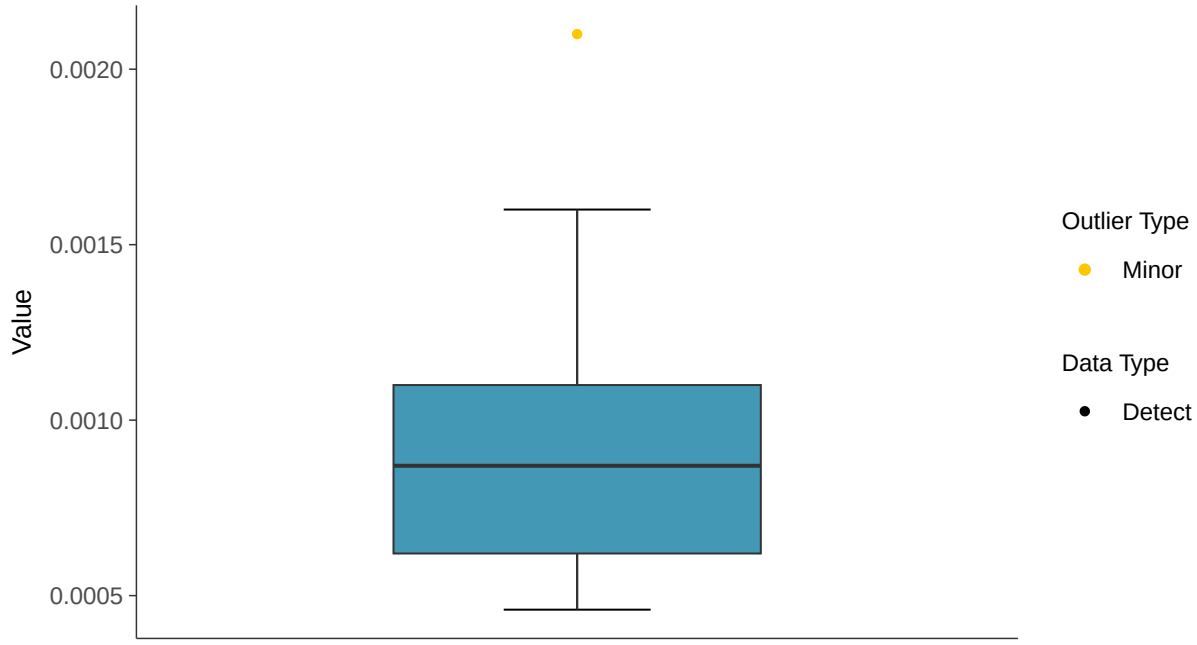
ID: 22_2_5_128





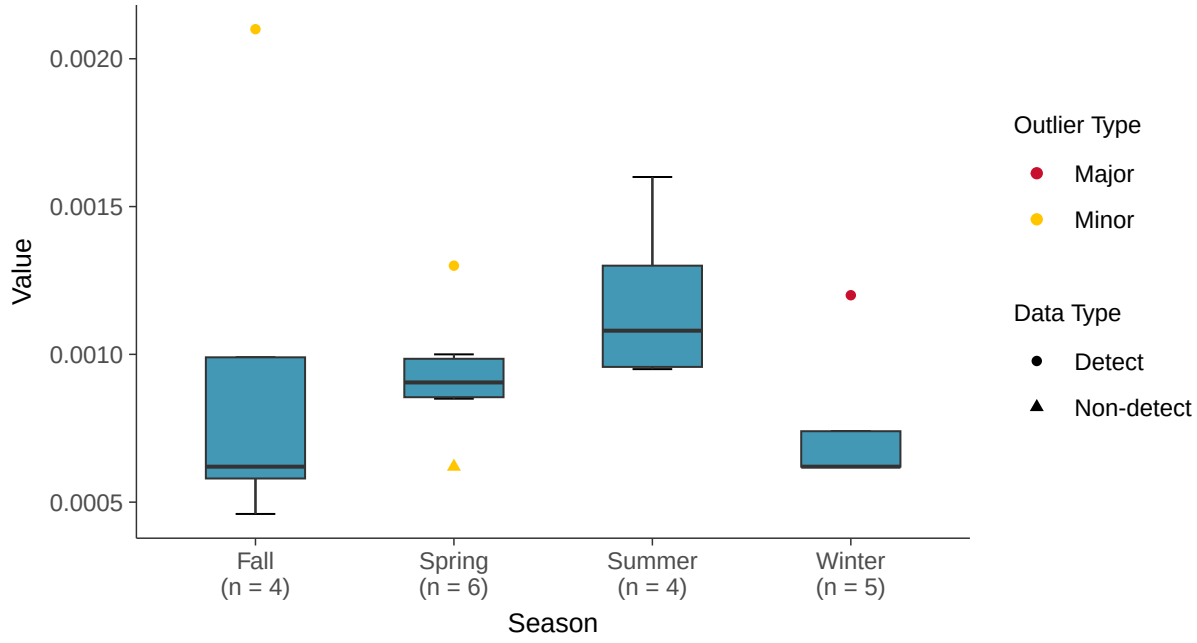
Boxplot

Vanadium, MW-12 (mg/L)



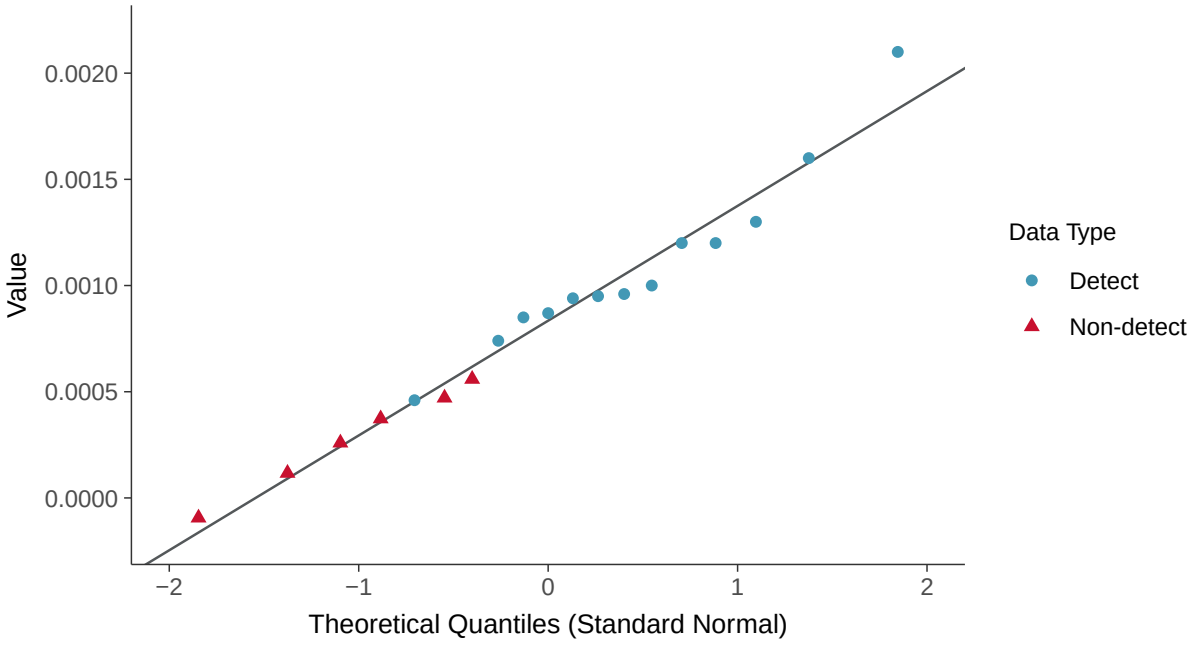
Boxplot by Season

Vanadium, MW-12 (mg/L)



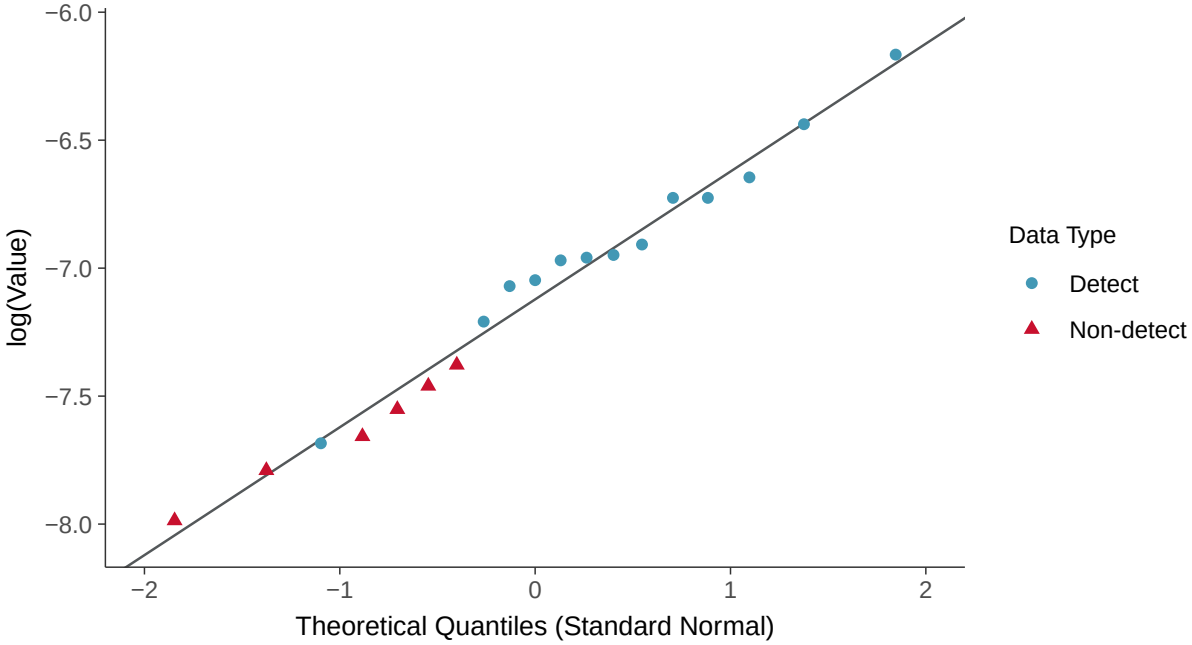
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-12 (mg/L)



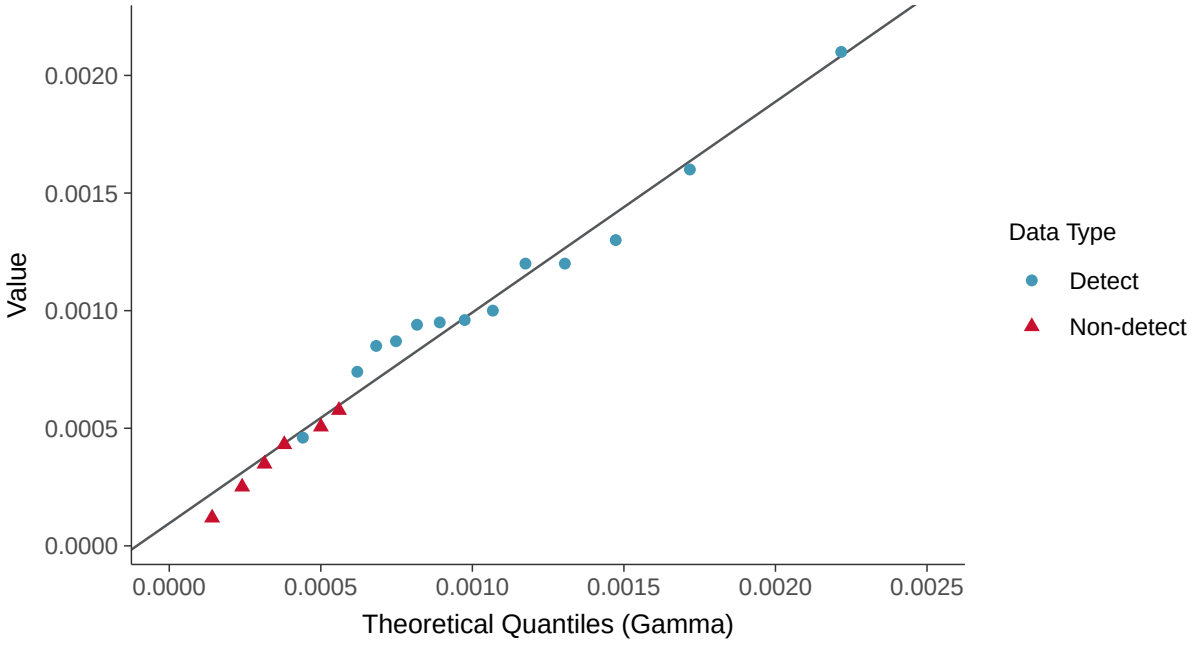
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-12 (mg/L)



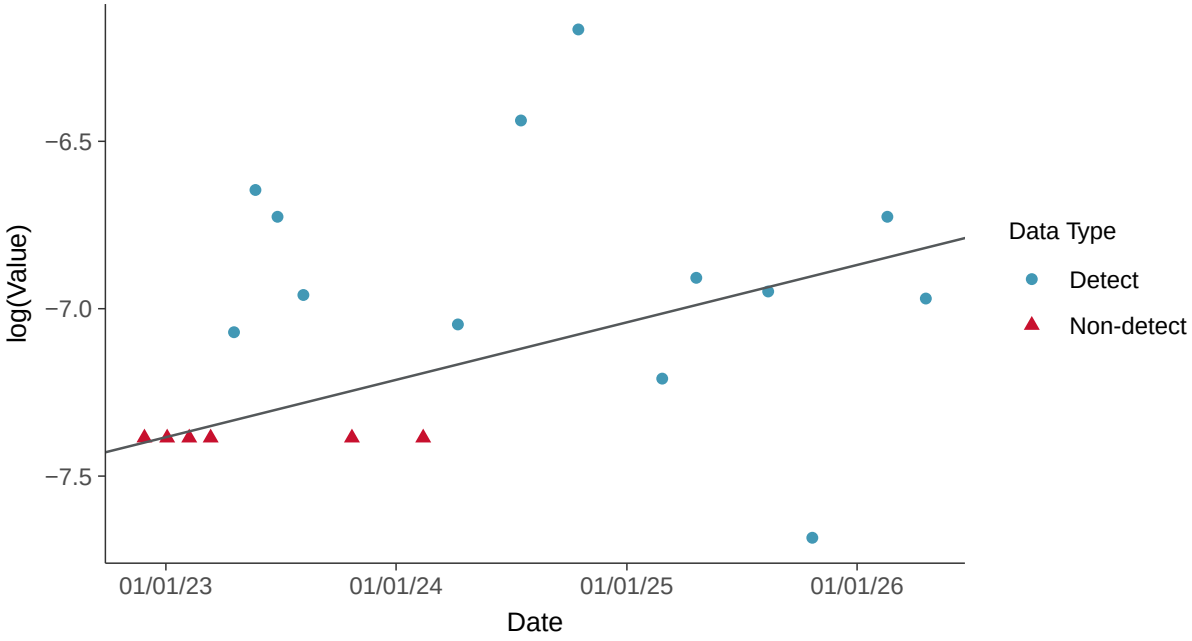
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-12 (mg/L)



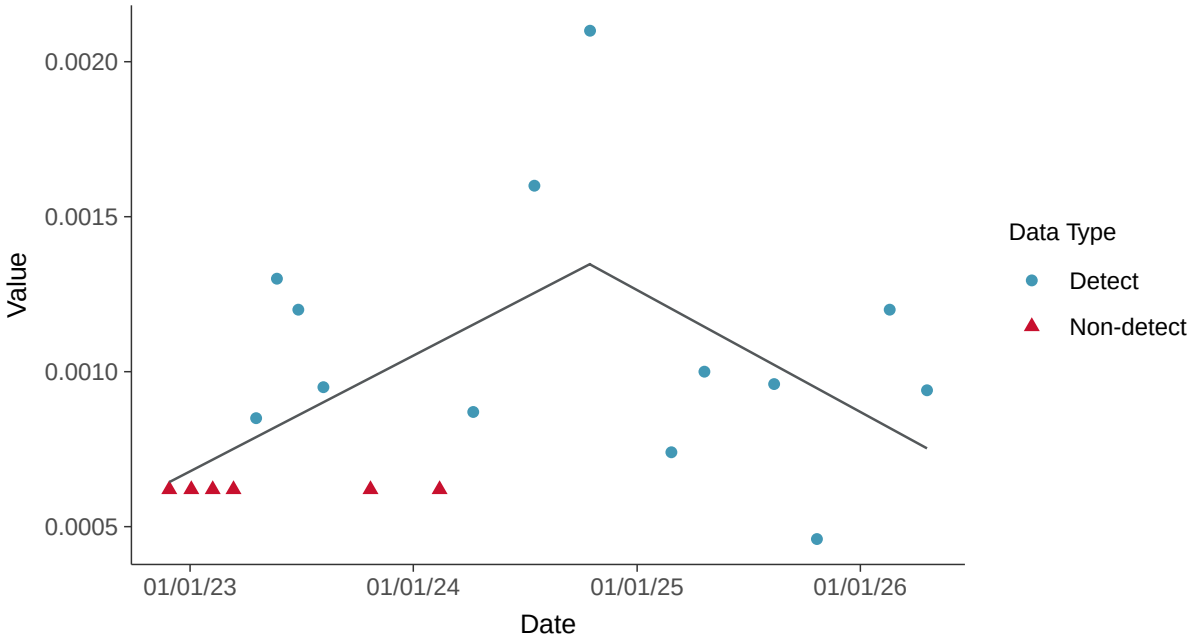
Trend Regression: Lognormal MLE

Vanadium, MW-12 (mg/L)



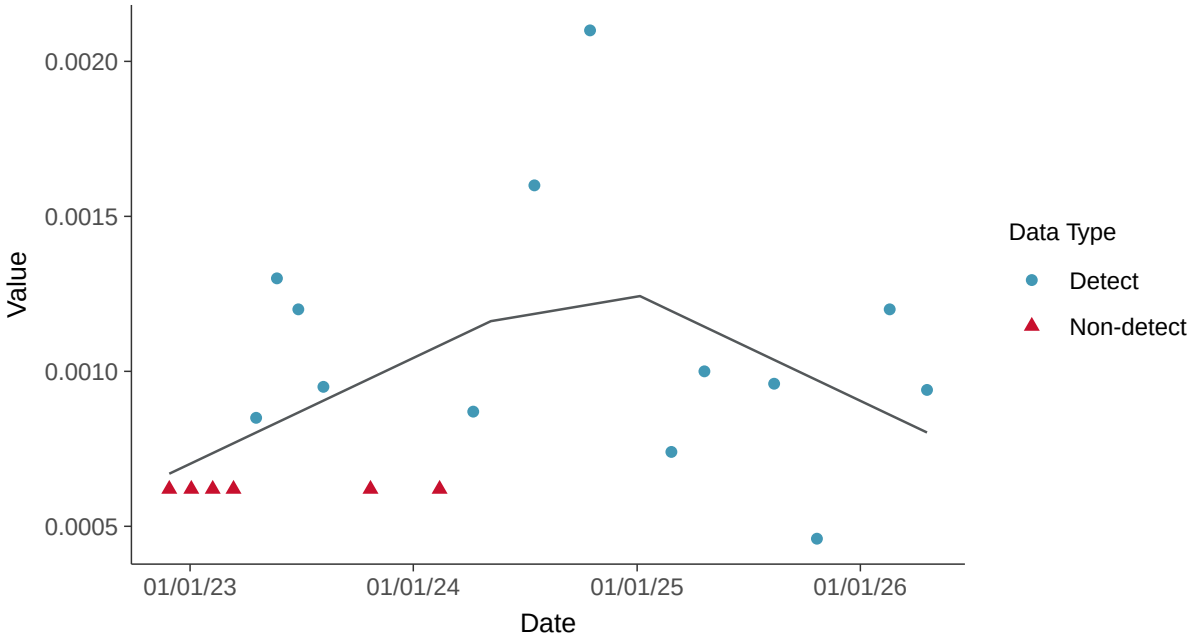
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-12 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-12 (mg/L)

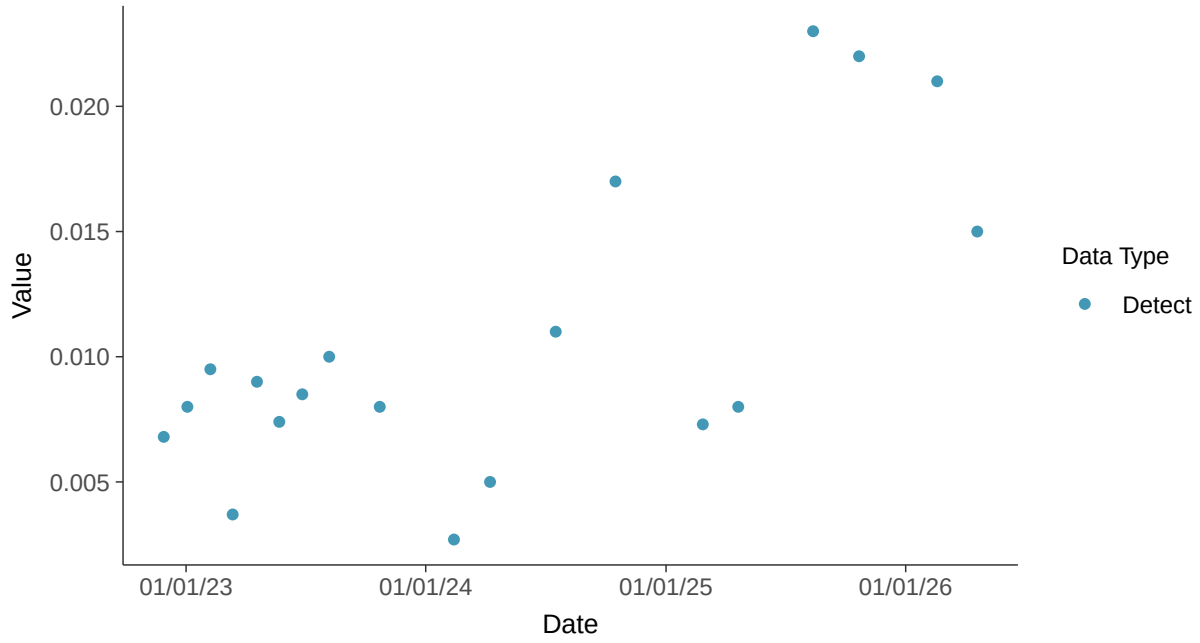


Part 115: Zinc, MW-12

ID: 22_2_5_129

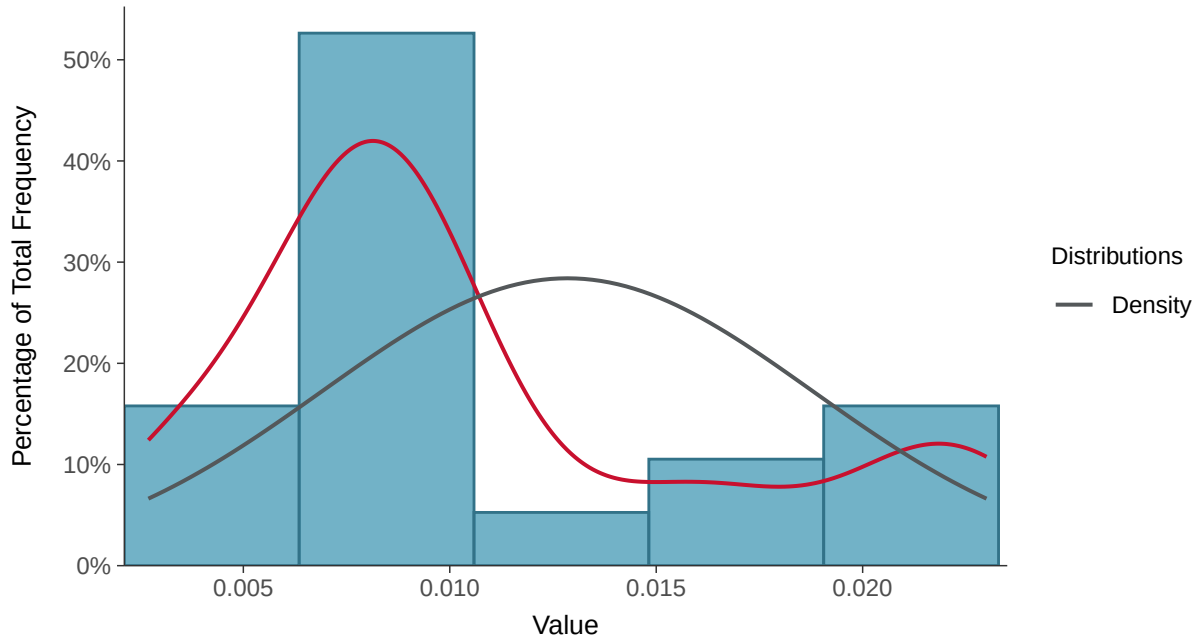
Scatter Plot

Zinc, MW-12 (mg/L)



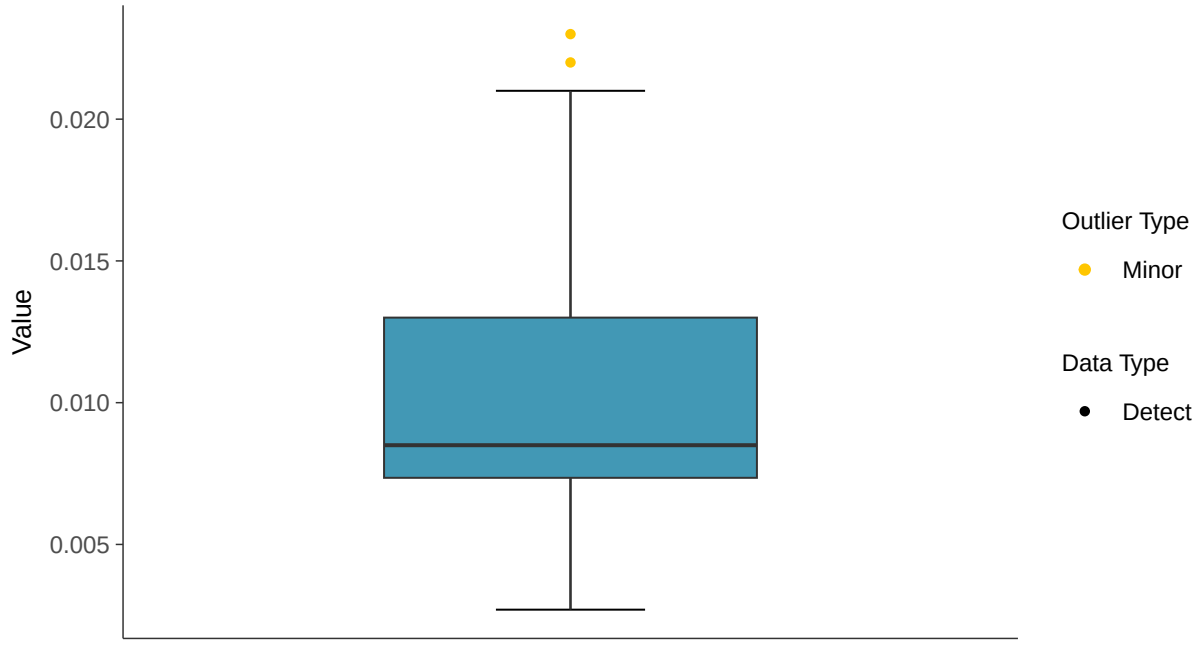
Histogram

Zinc, MW-12 (mg/L)



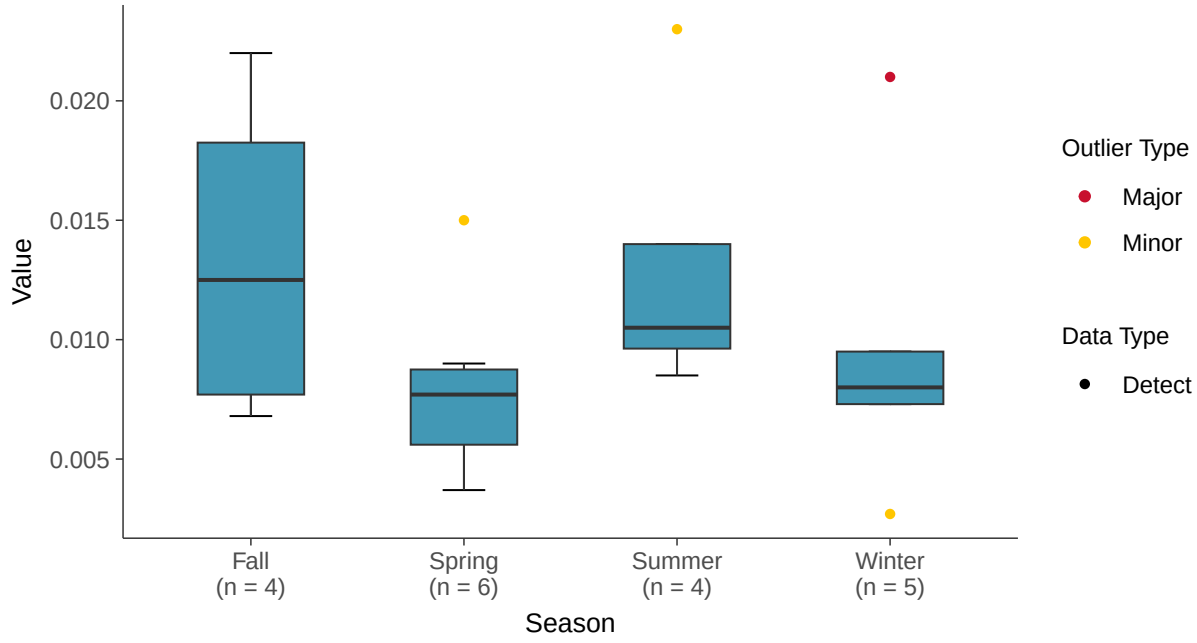
Boxplot

Zinc, MW-12 (mg/L)



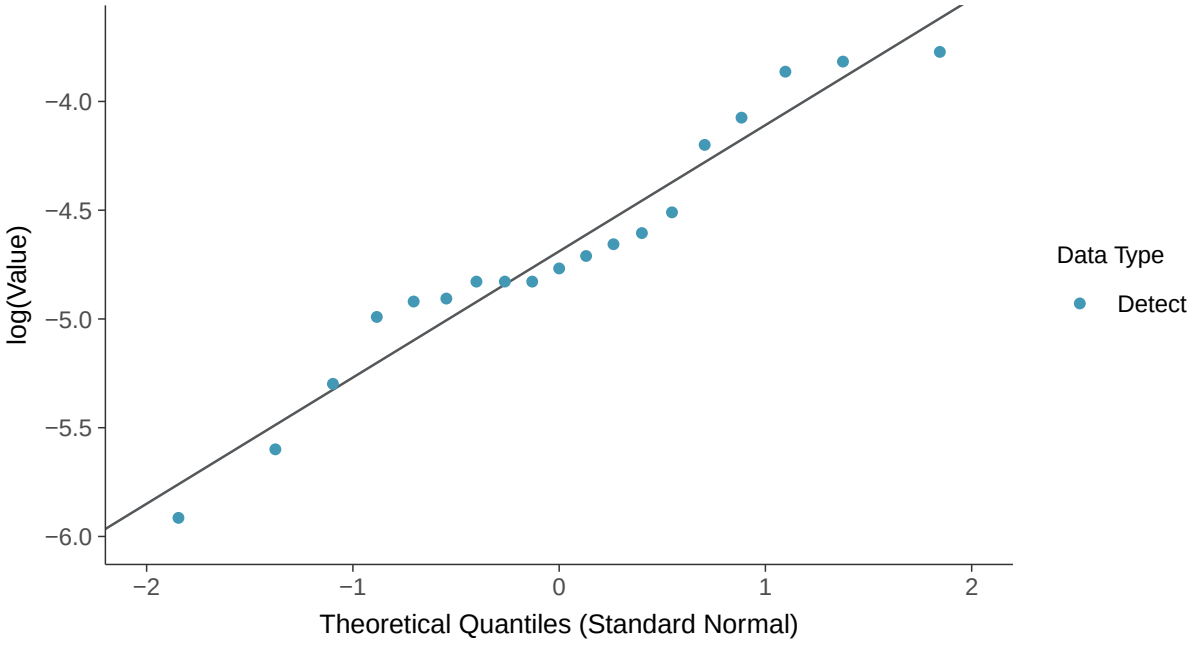
Boxplot by Season

Zinc, MW-12 (mg/L)



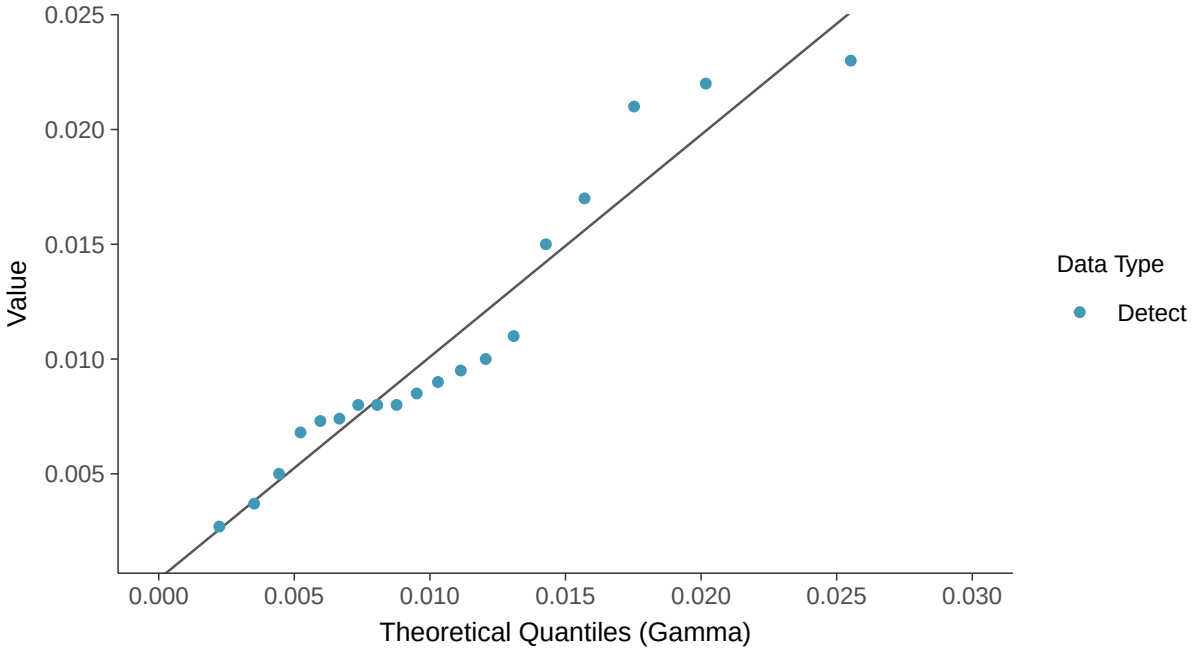
Lognormal Q-Q plot

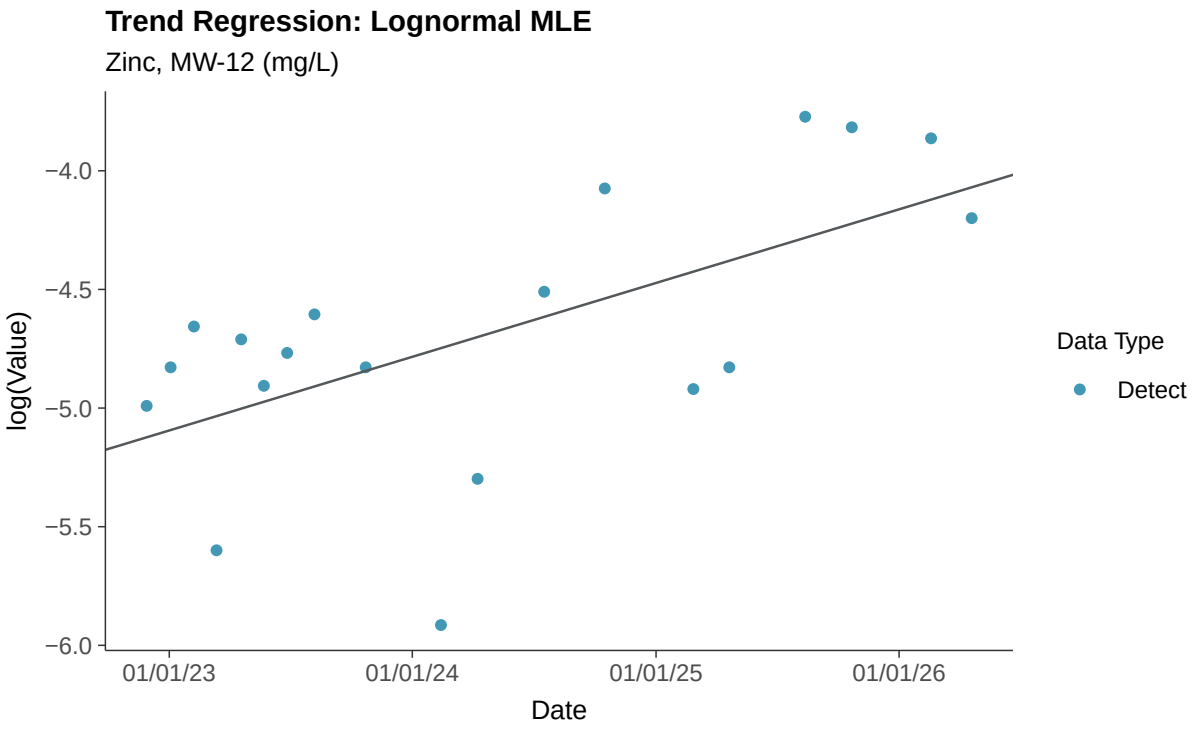
Zinc, MW-12 (mg/L)

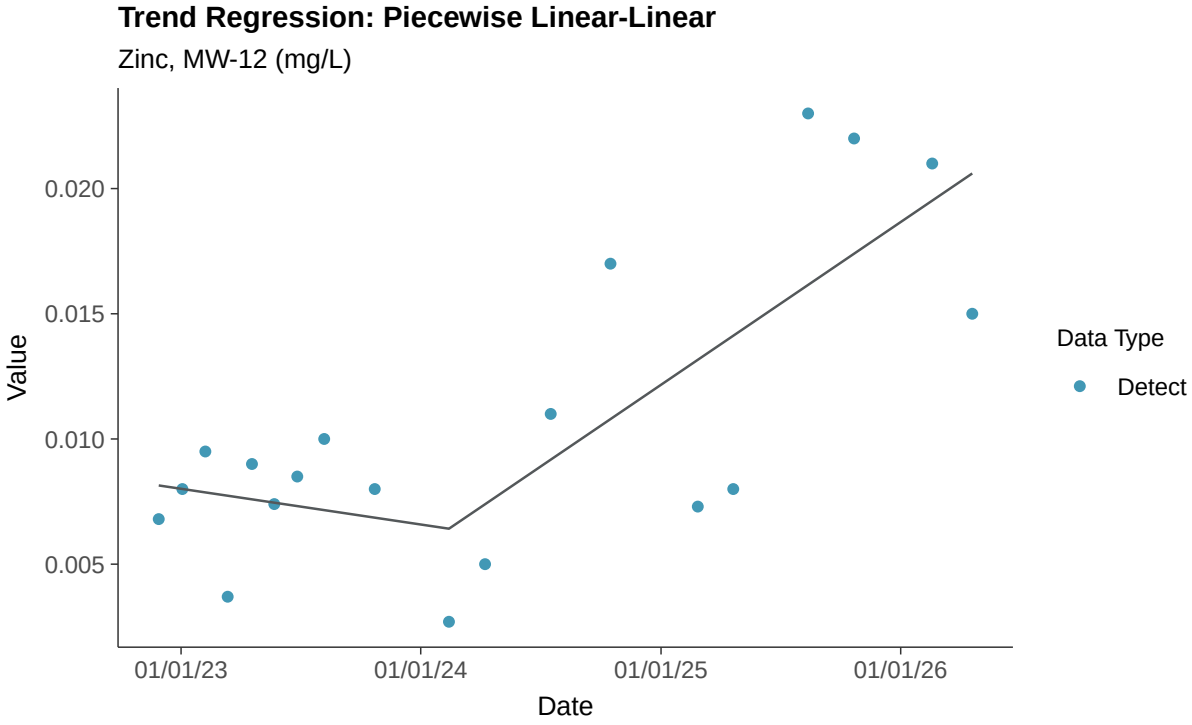


Gamma Q-Q plot

Zinc, MW-12 (mg/L)

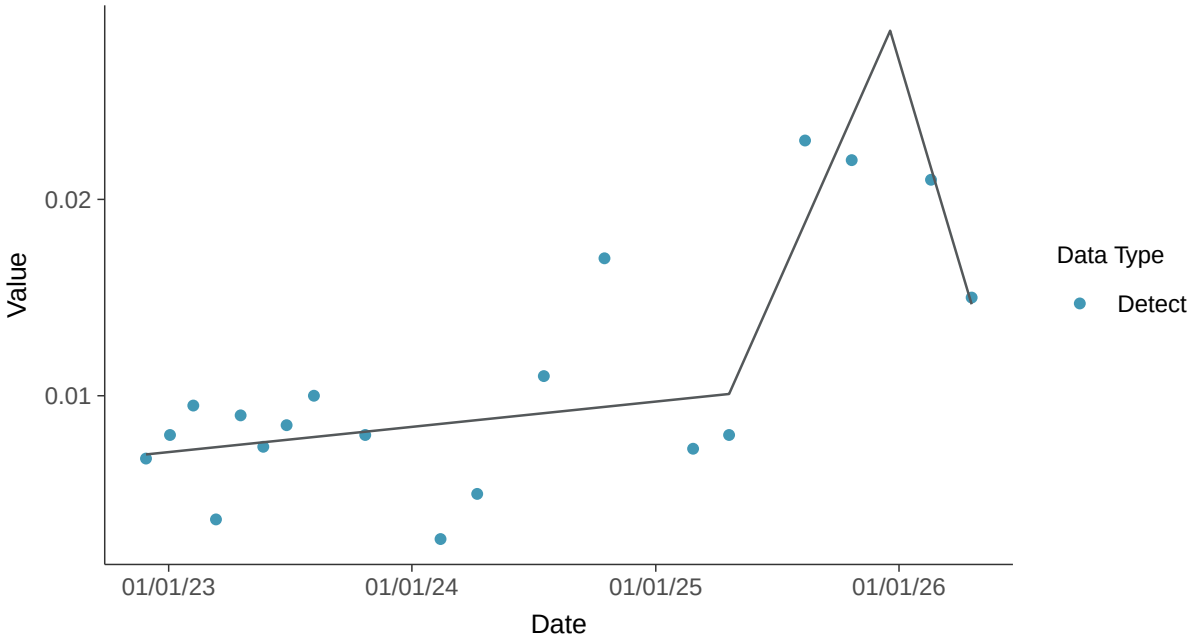



Trend Regression: Lognormal MLE
Zinc, MW-12 (mg/L)
log(Value)
−4.0
−4.5
−5.0
−5.5
−6.0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect


Trend Regression: Piecewise Linear-Linear
Zinc, MW-12 (mg/L)
Value
0.020
0.015
0.010
0.005
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-12 (mg/L)

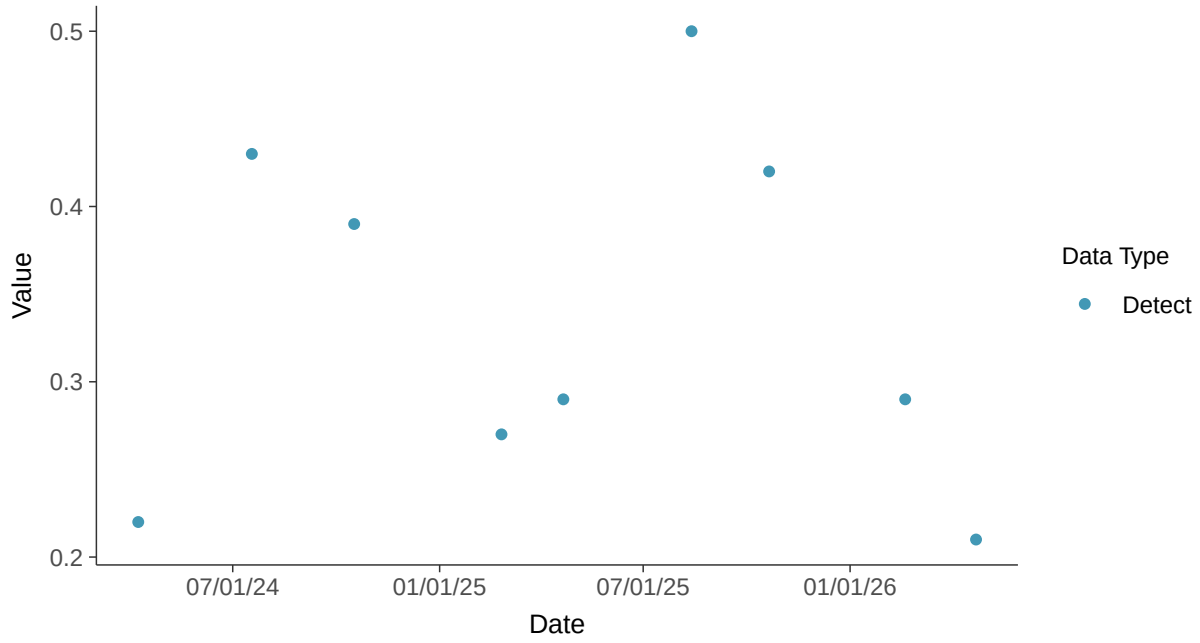


Appendix III: Boron, MW-16

ID: 26_1_3_105

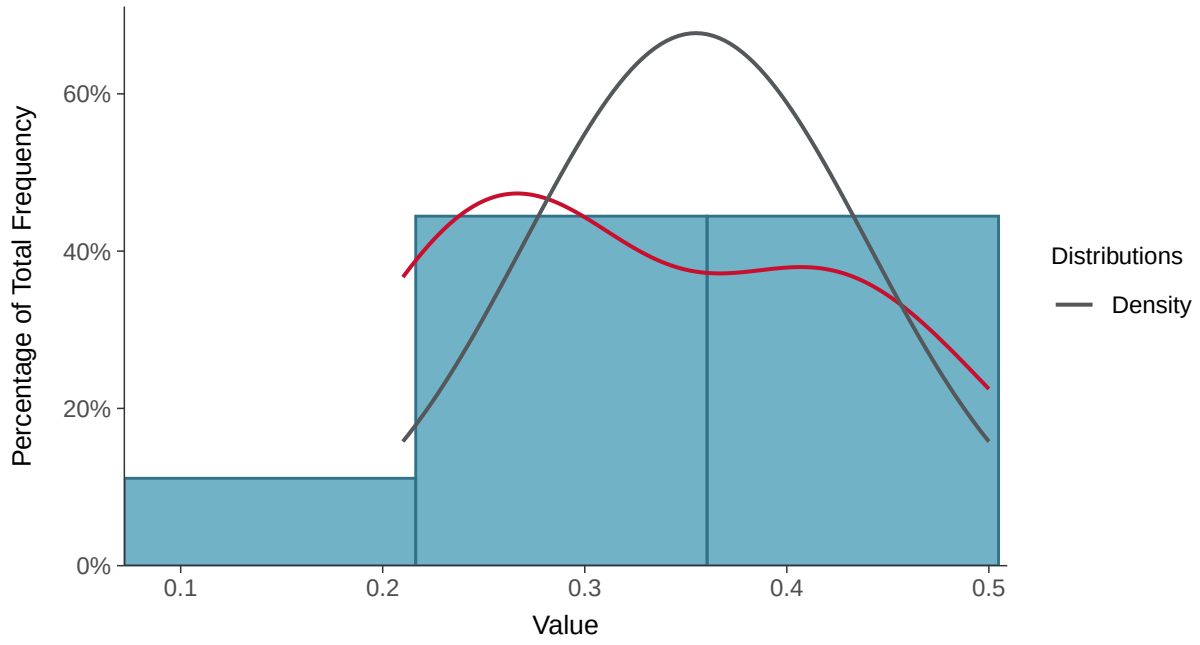
Scatter Plot

Boron, MW-16 (mg/L)



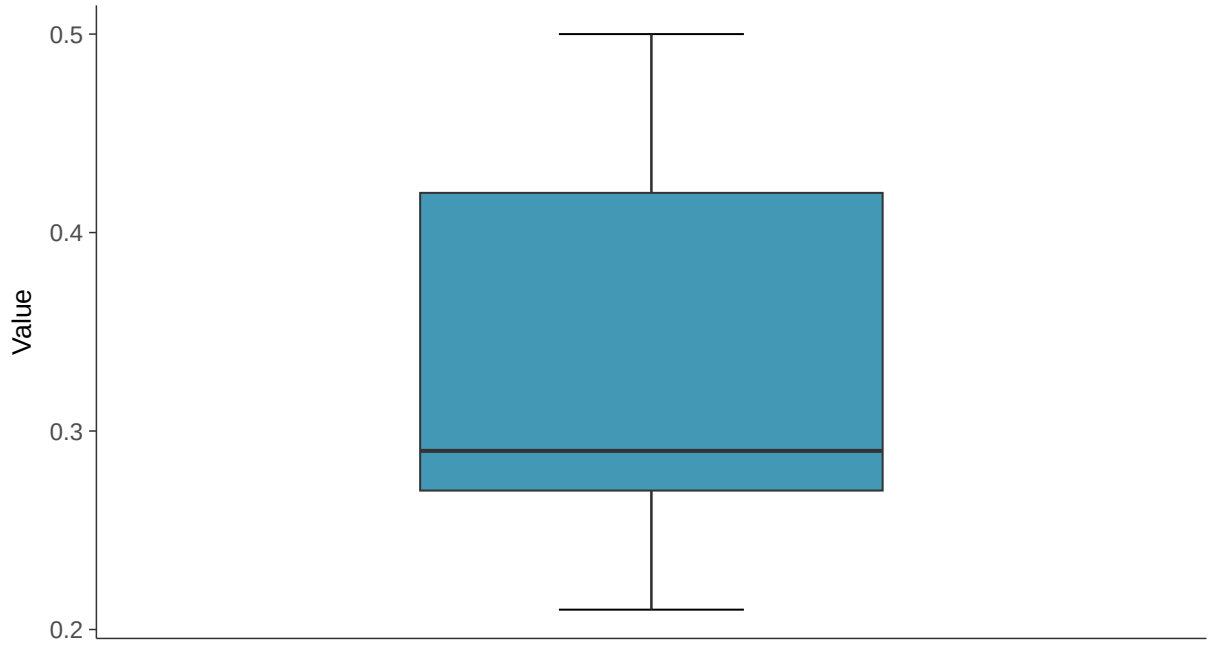
Histogram

Boron, MW-16 (mg/L)



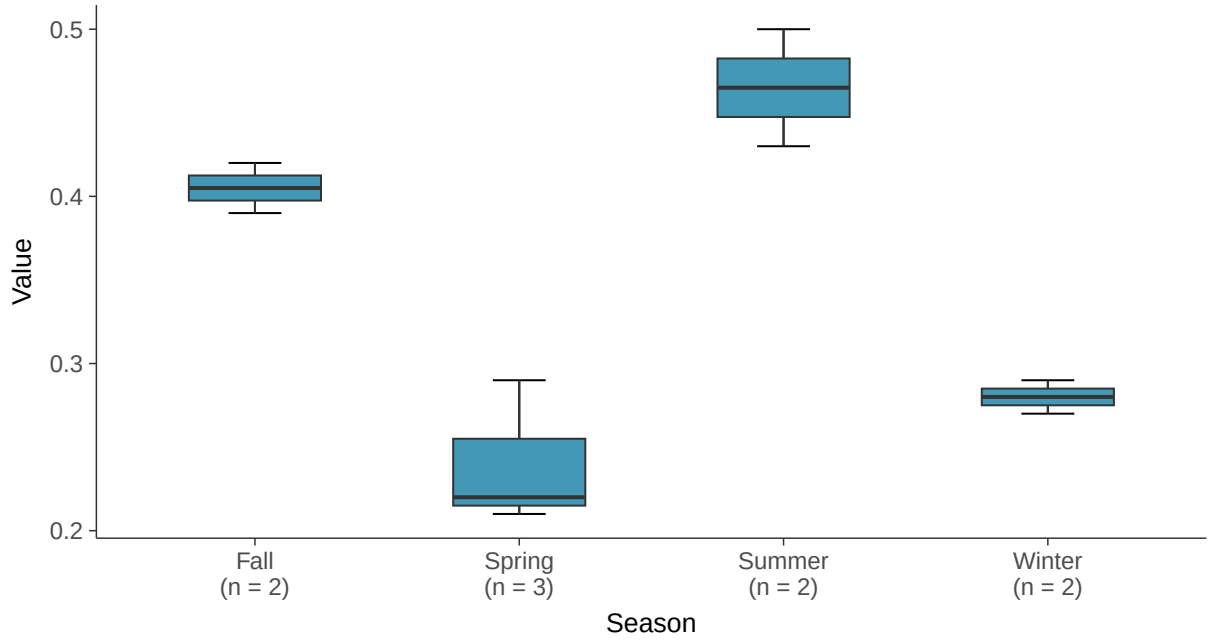
Boxplot

Boron, MW-16 (mg/L)



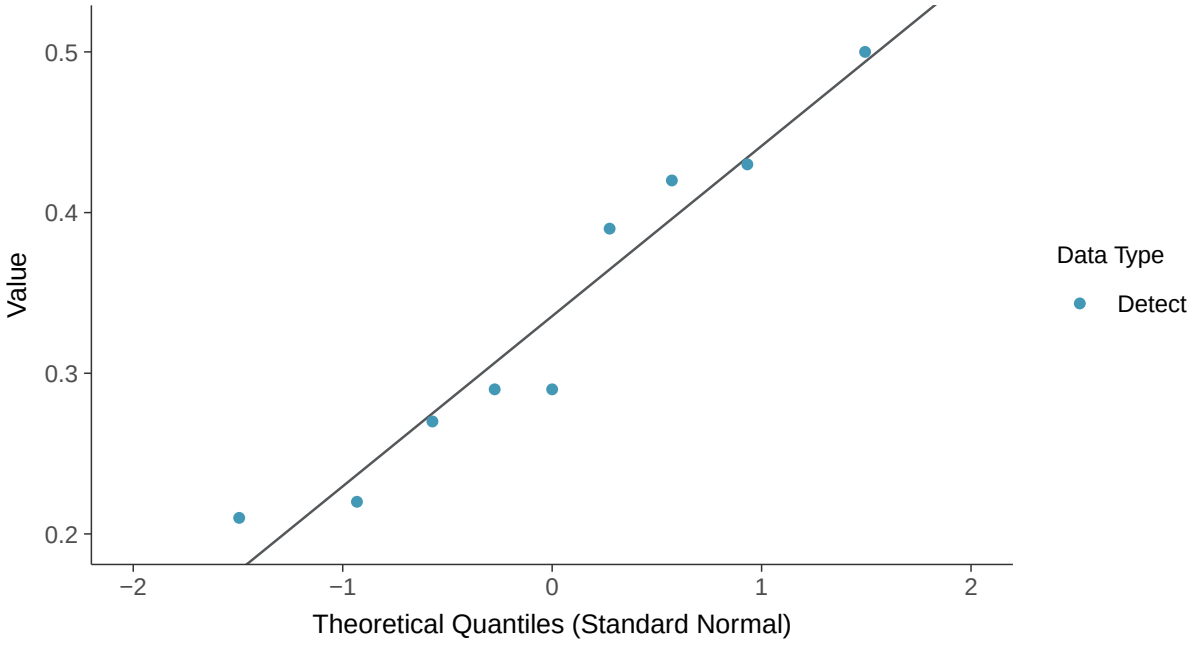
Boxplot by Season

Boron, MW-16 (mg/L)



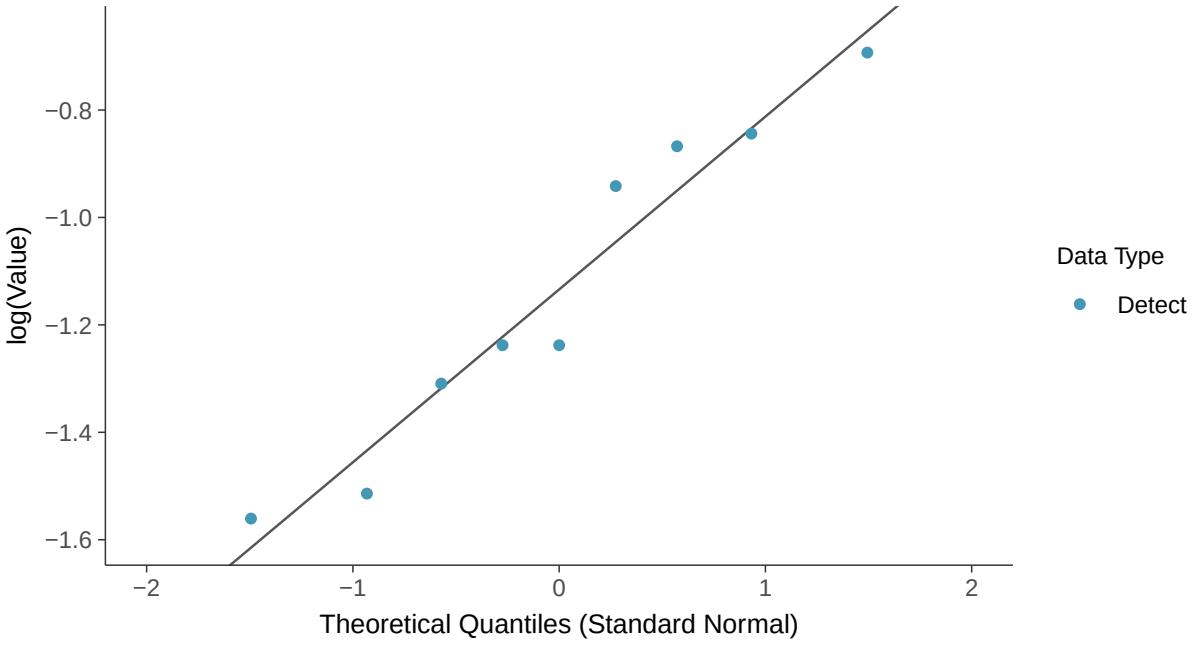
Normal Q-Q plot

Boron, MW-16 (mg/L)



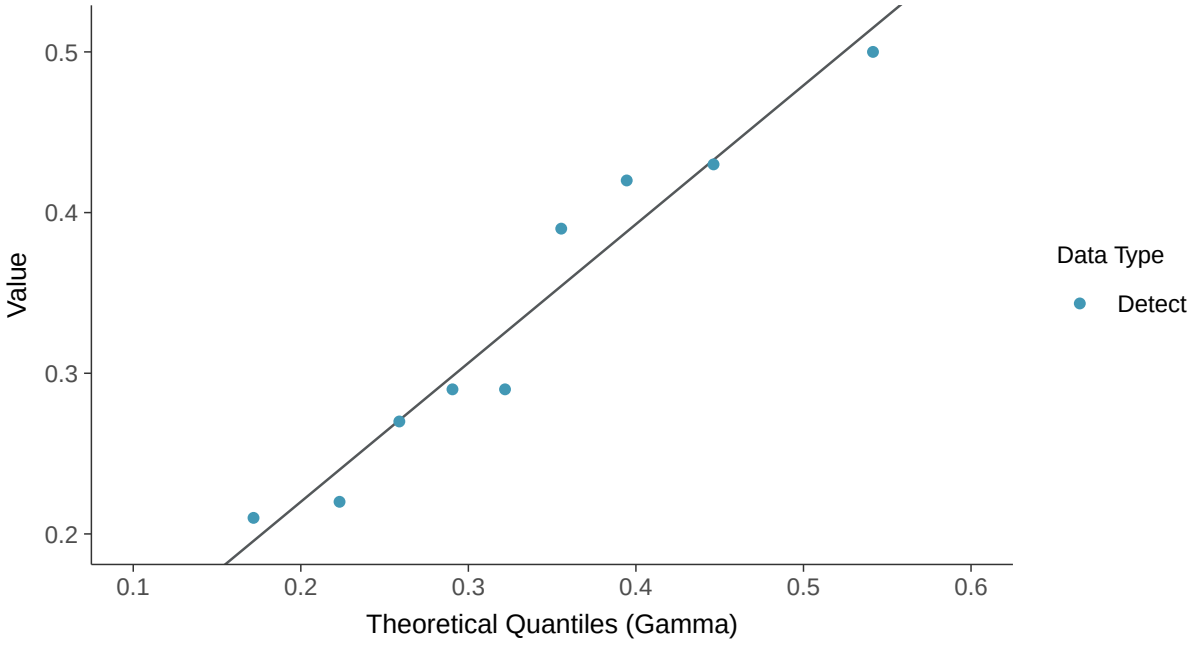
Lognormal Q-Q plot

Boron, MW-16 (mg/L)



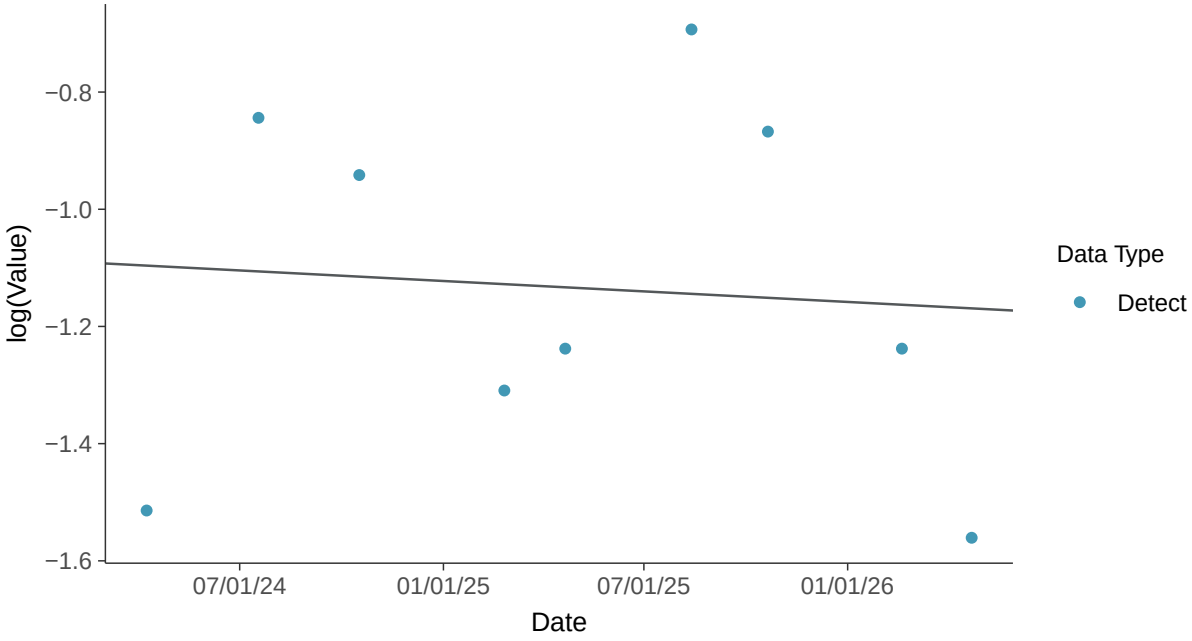
Gamma Q-Q plot

Boron, MW-16 (mg/L)



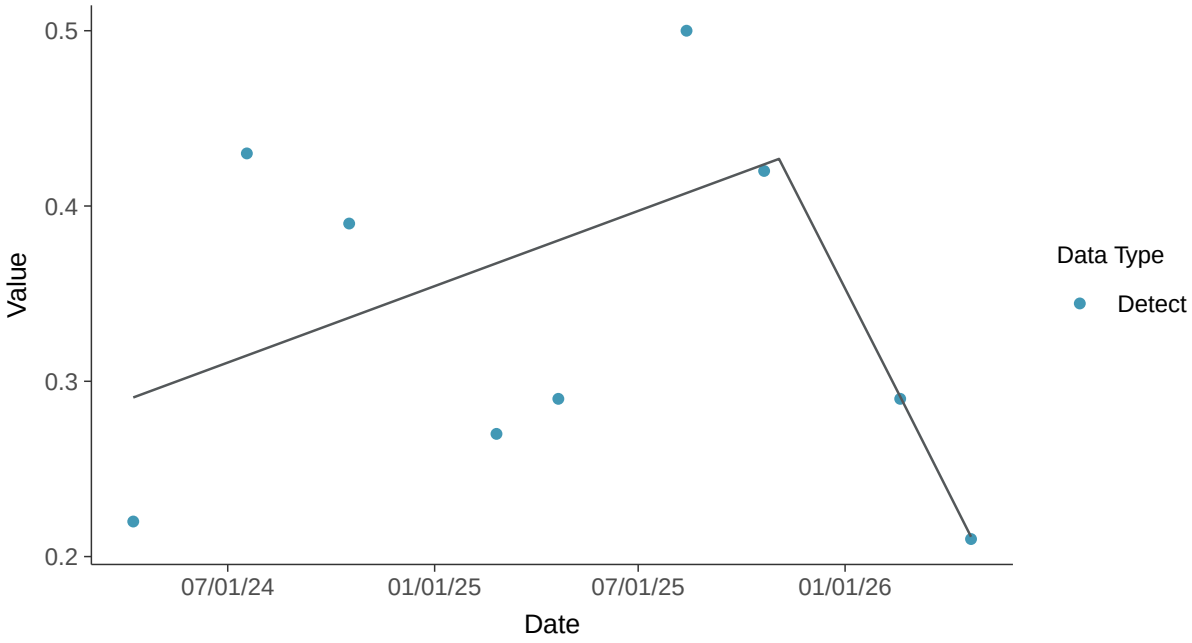
Trend Regression: Lognormal MLE

Boron, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-16 (mg/L)

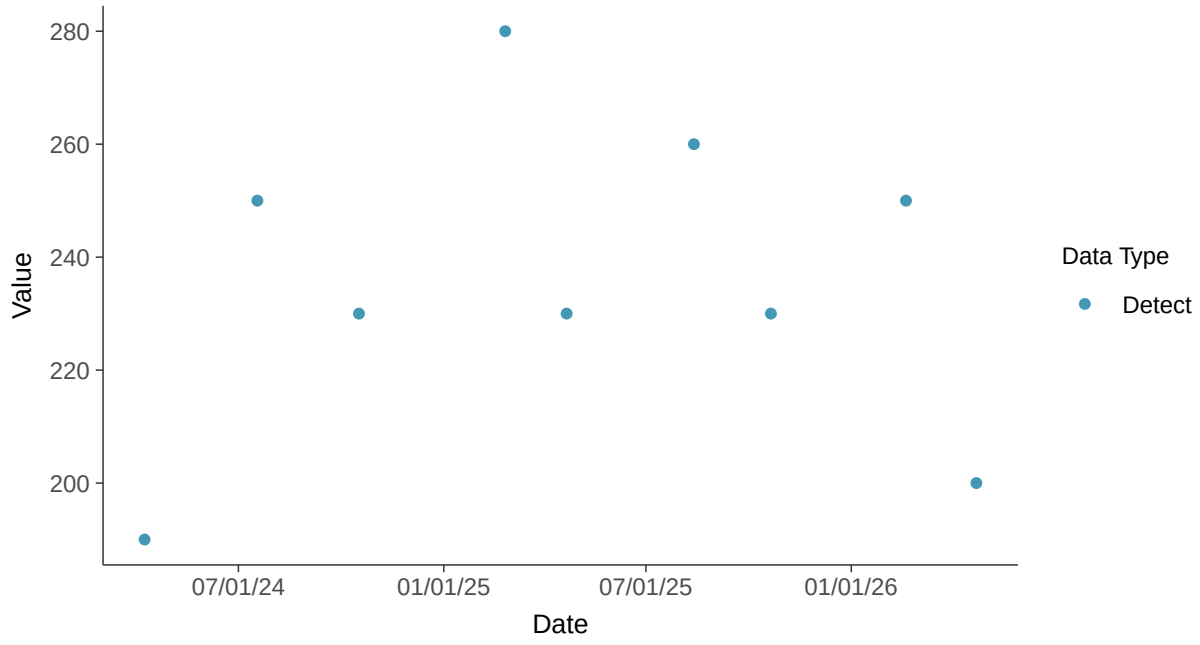


Appendix III: Calcium, MW-16

ID: 26_1_3_107

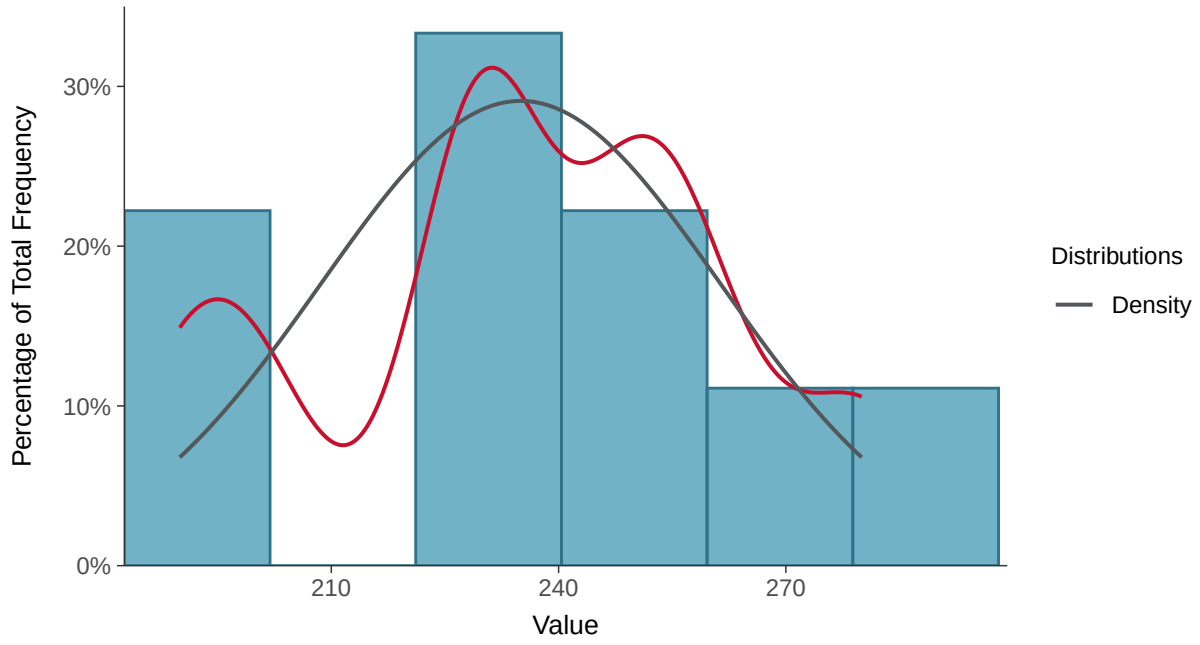
Scatter Plot

Calcium, MW-16 (mg/L)



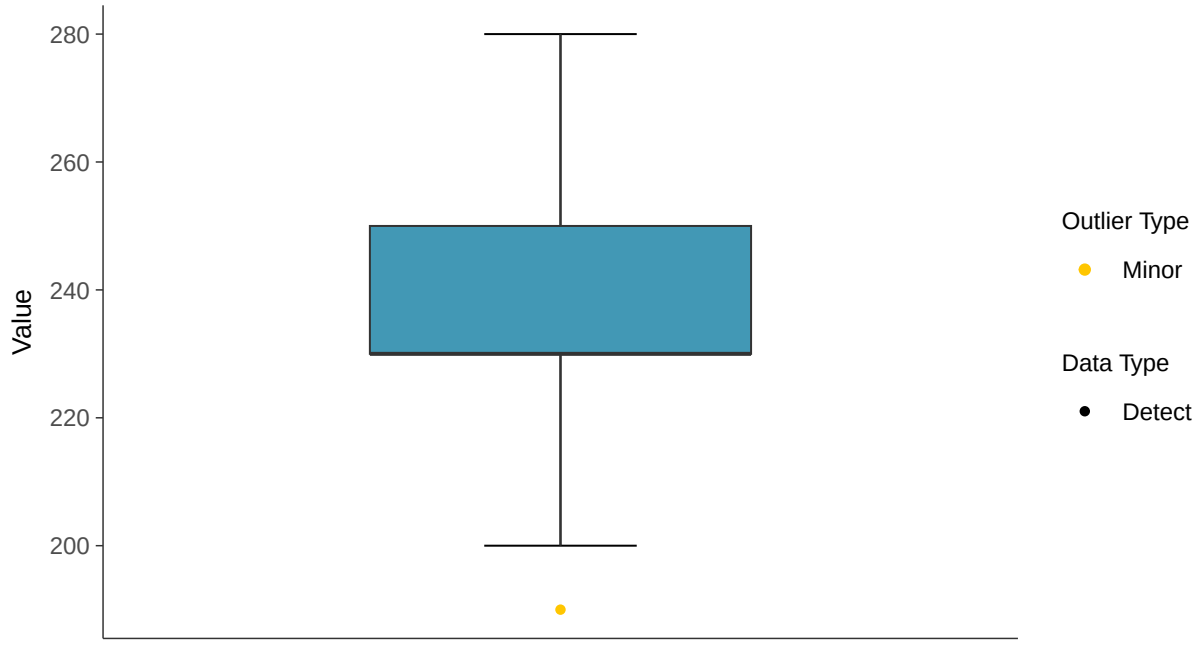
Histogram

Calcium, MW-16 (mg/L)



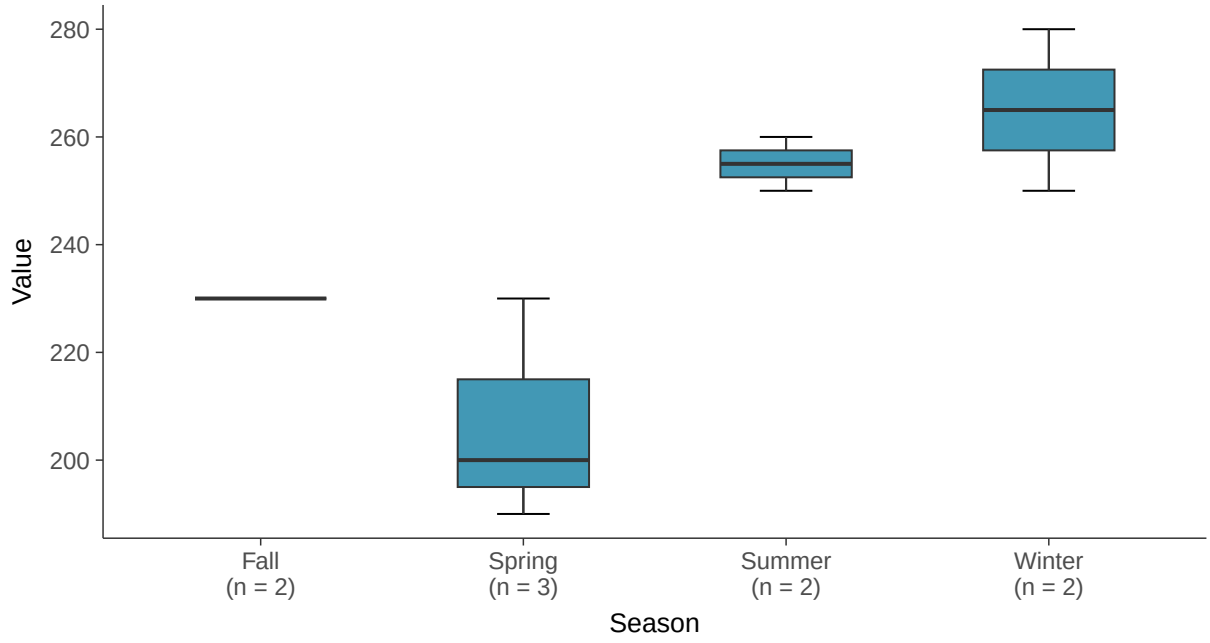
Boxplot

Calcium, MW-16 (mg/L)



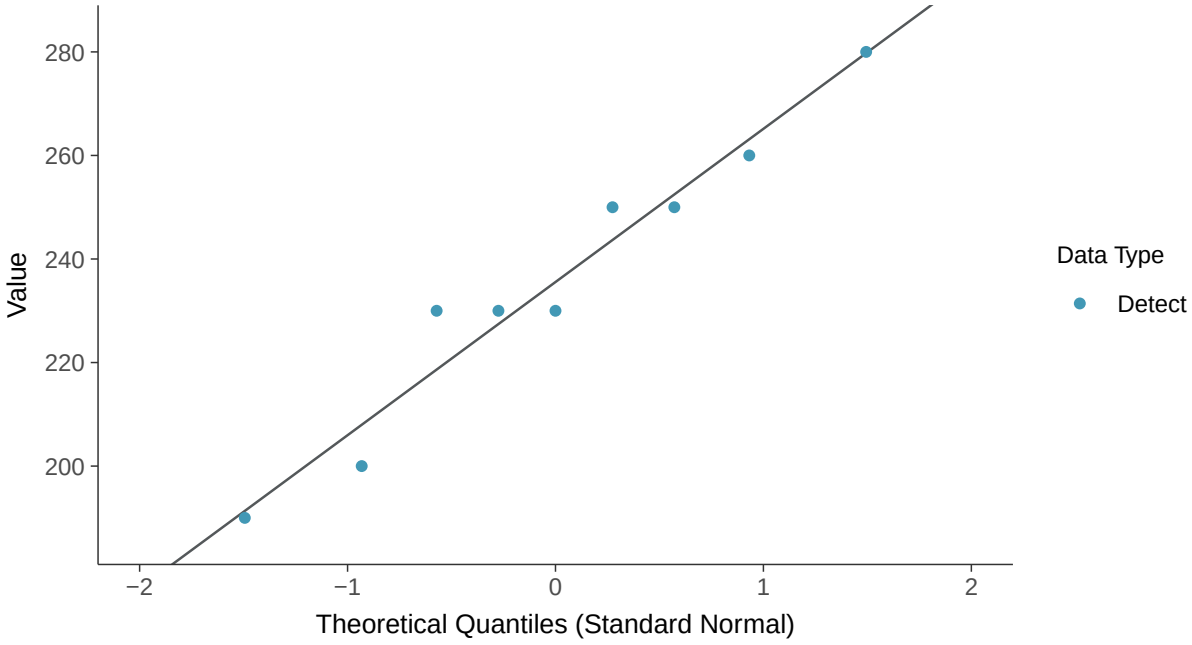
Boxplot by Season

Calcium, MW-16 (mg/L)



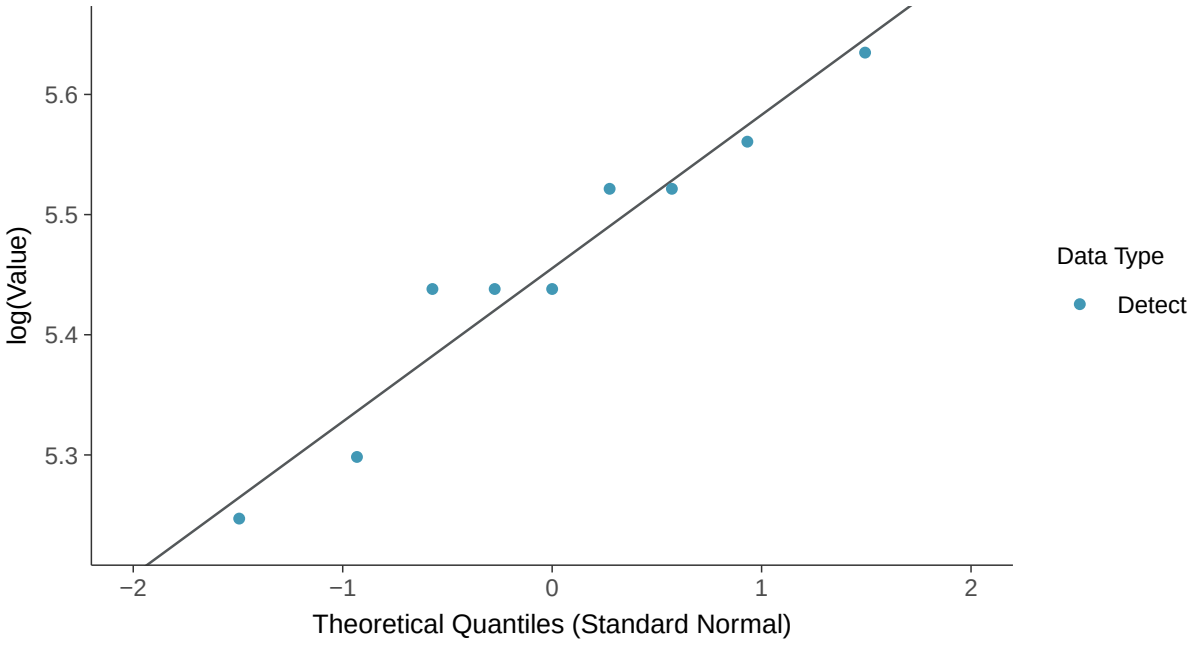
Normal Q-Q plot

Calcium, MW-16 (mg/L)



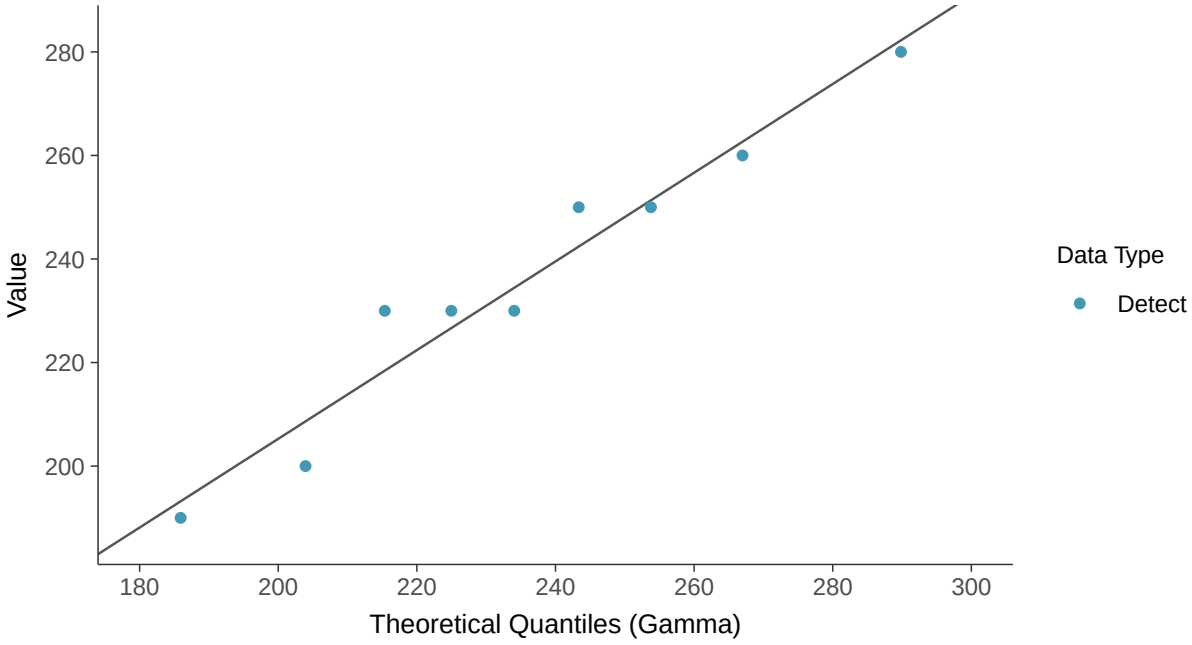
Lognormal Q-Q plot

Calcium, MW-16 (mg/L)



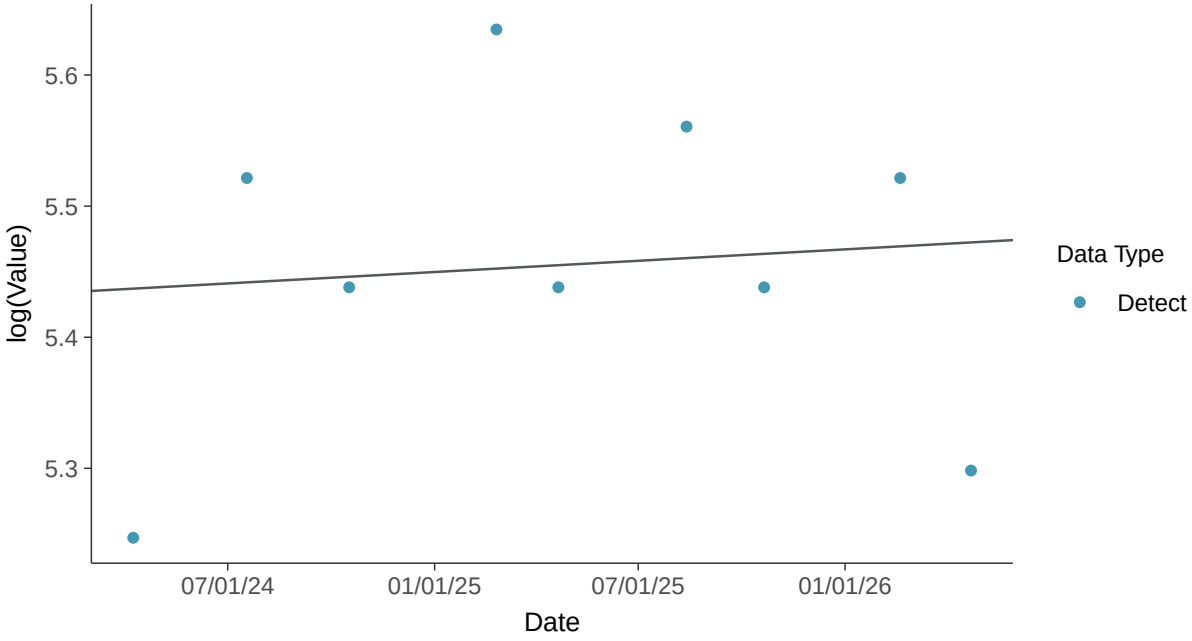
Gamma Q-Q plot

Calcium, MW-16 (mg/L)



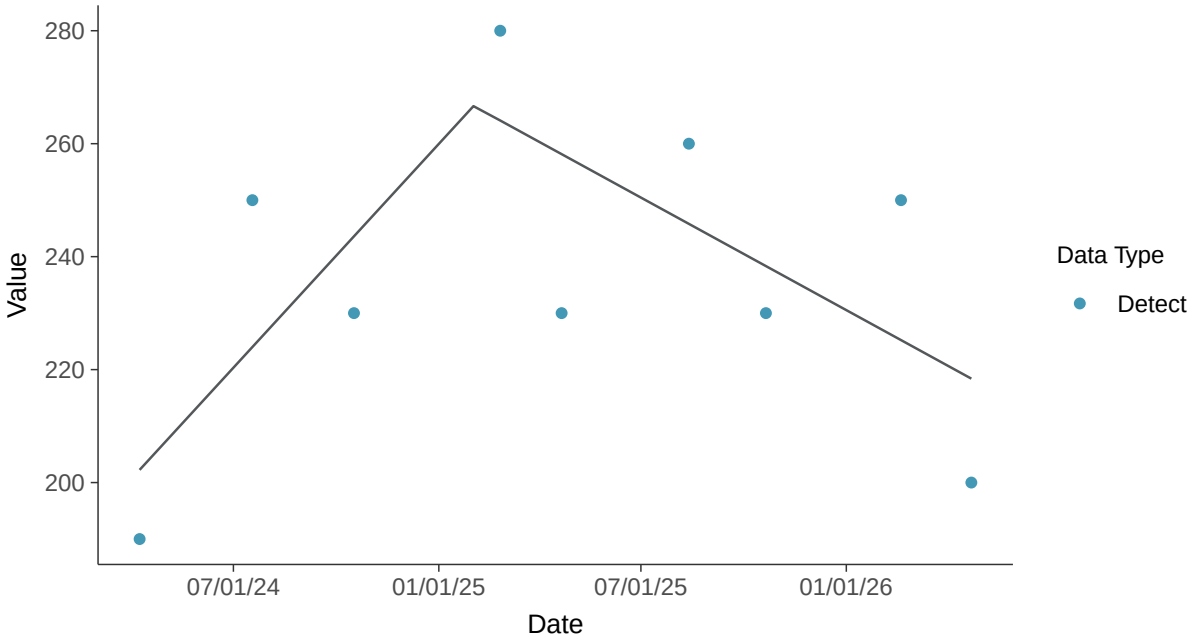
Trend Regression: Lognormal MLE

Calcium, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-16 (mg/L)

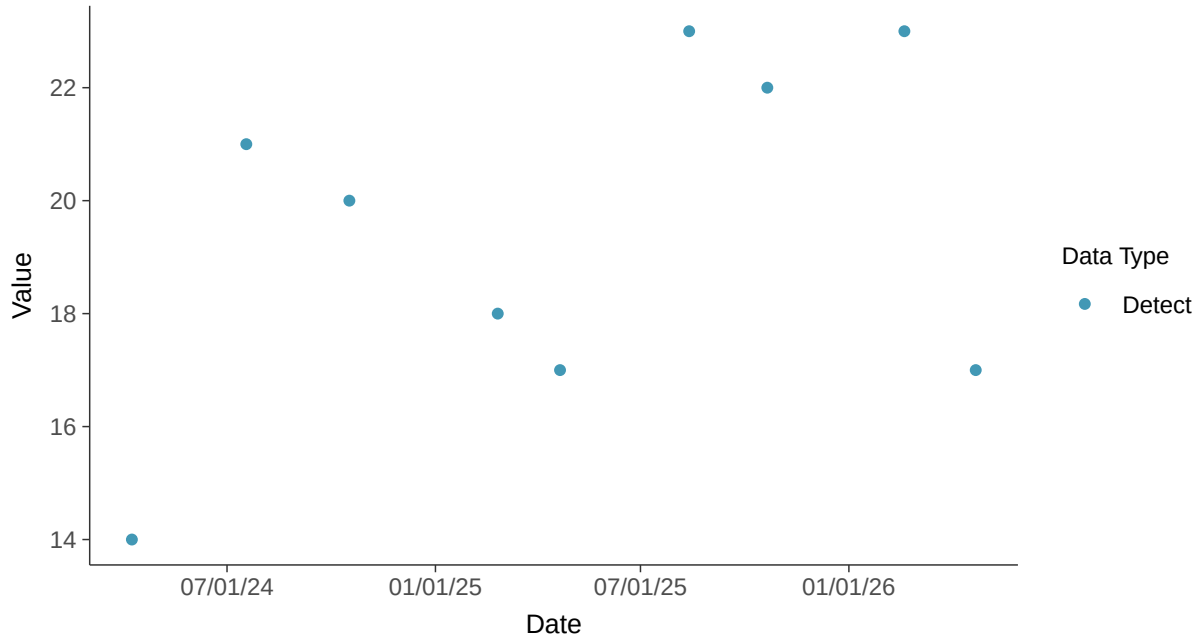


Appendix III: Chloride (as Cl), MW-16

ID: 26_1_3_108

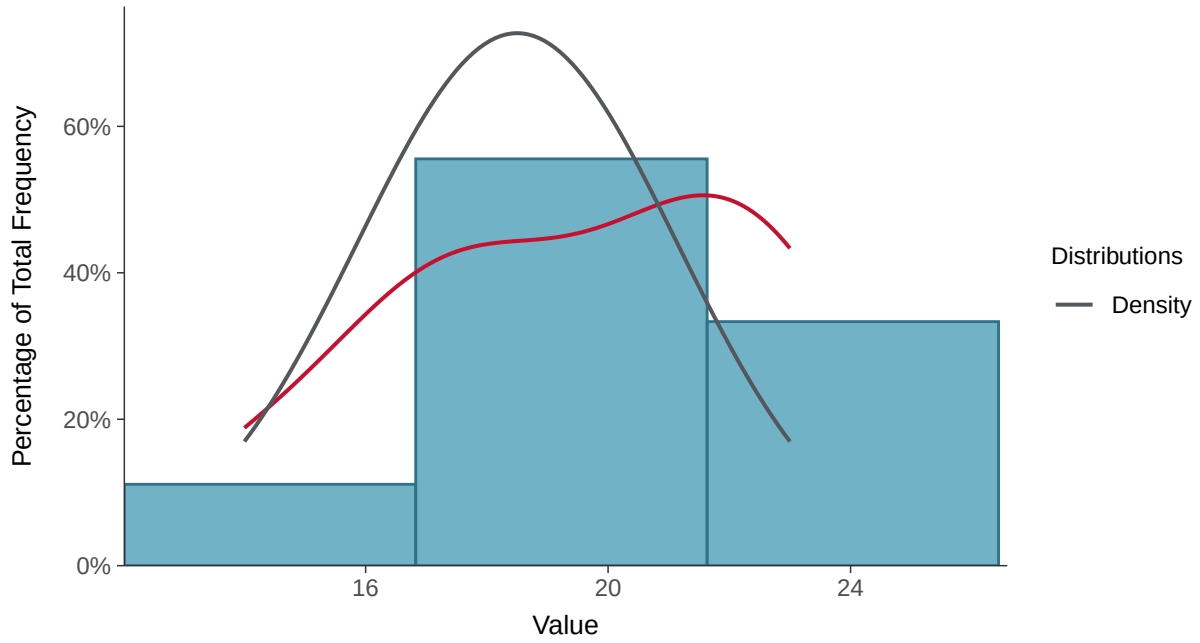
Scatter Plot

Chloride (as Cl), MW-16 (mg/L)



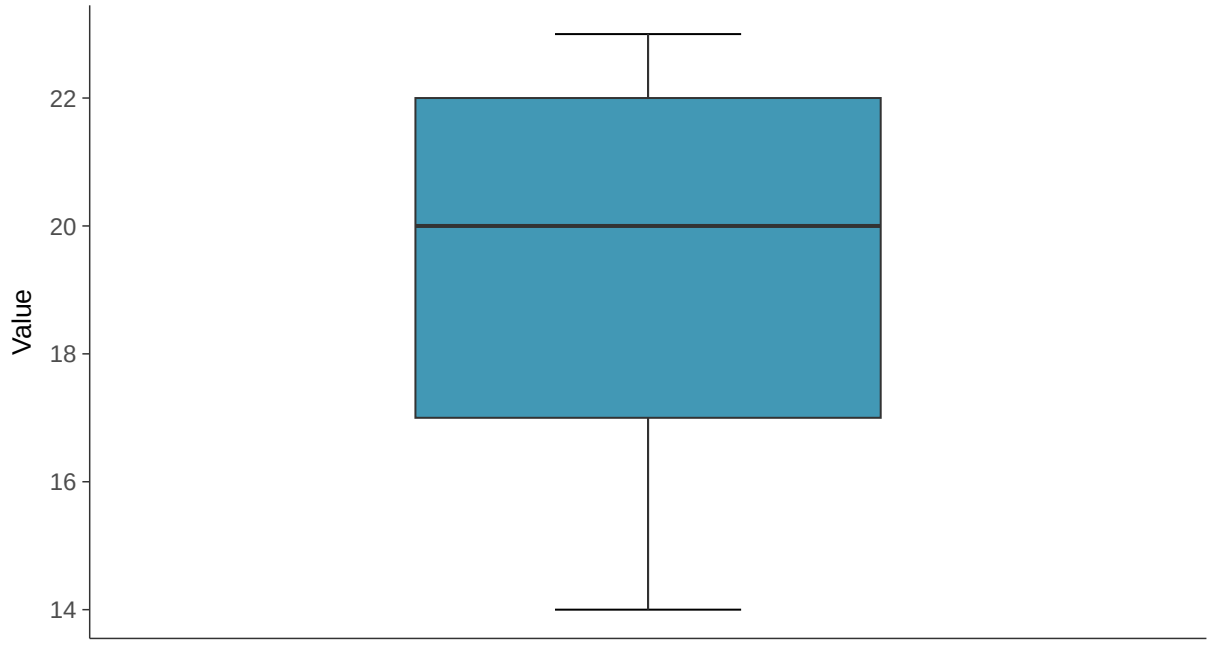
Histogram

Chloride (as Cl), MW-16 (mg/L)



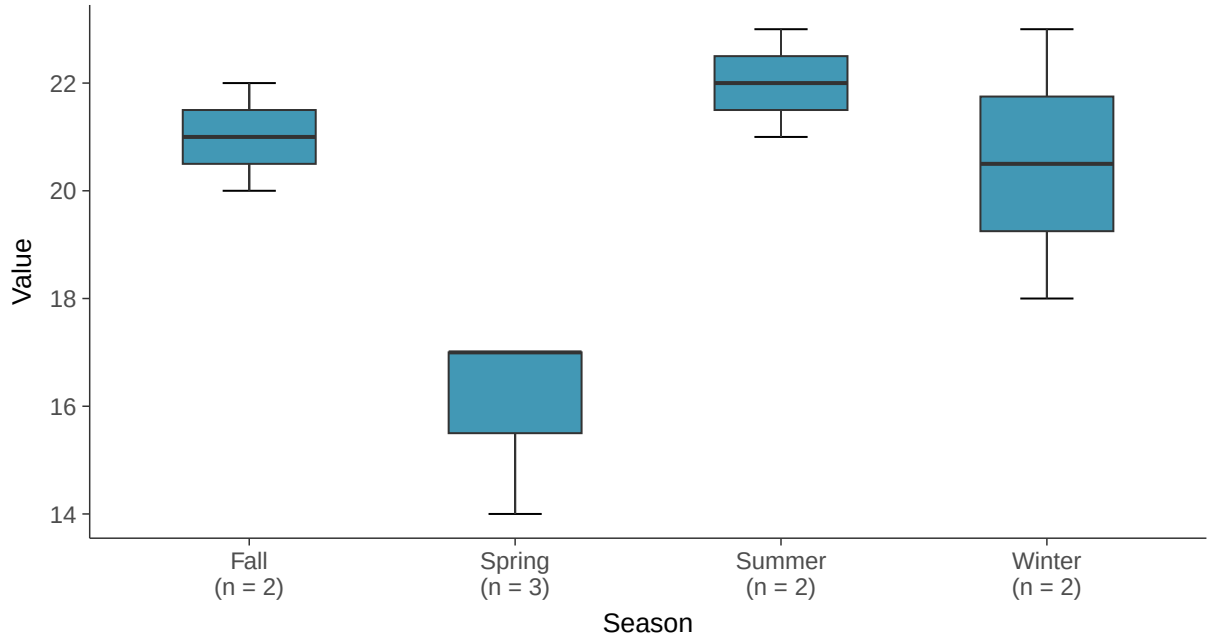
Boxplot

Chloride (as Cl), MW-16 (mg/L)



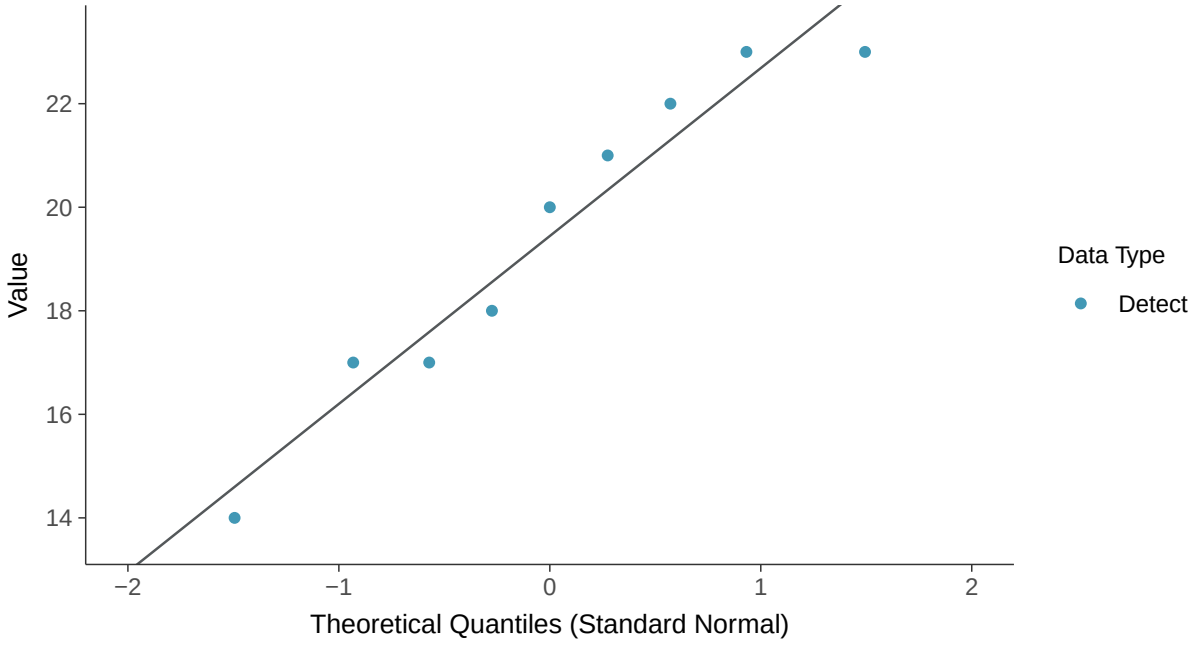
Boxplot by Season

Chloride (as Cl), MW-16 (mg/L)



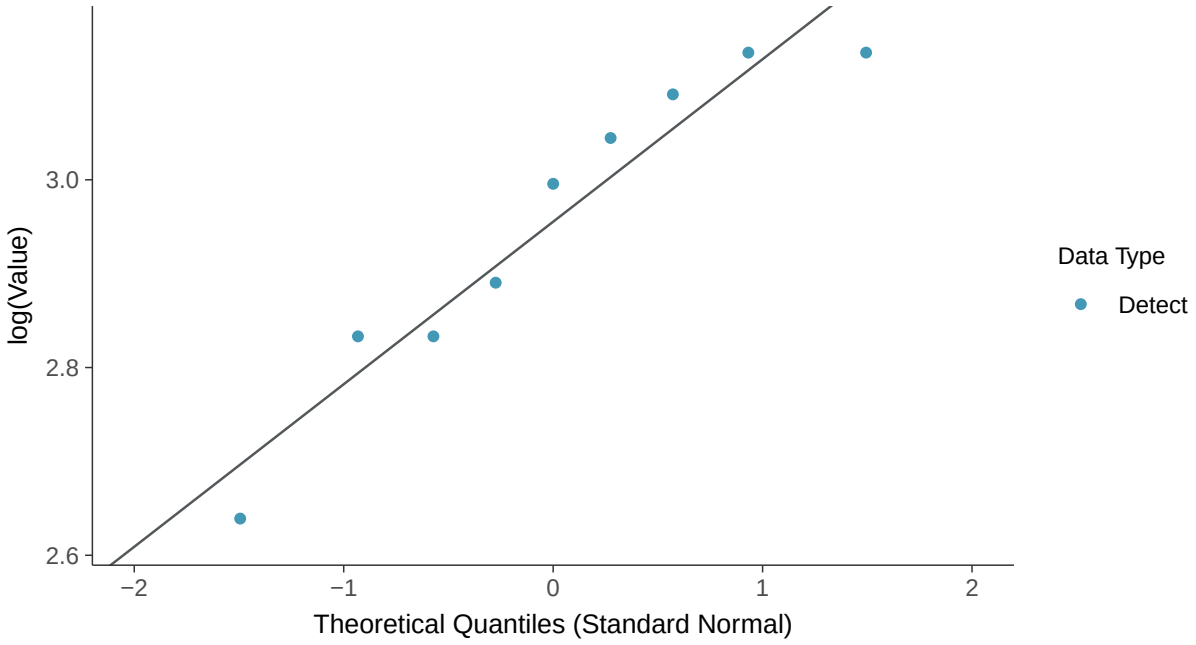
Normal Q-Q plot

Chloride (as Cl), MW-16 (mg/L)



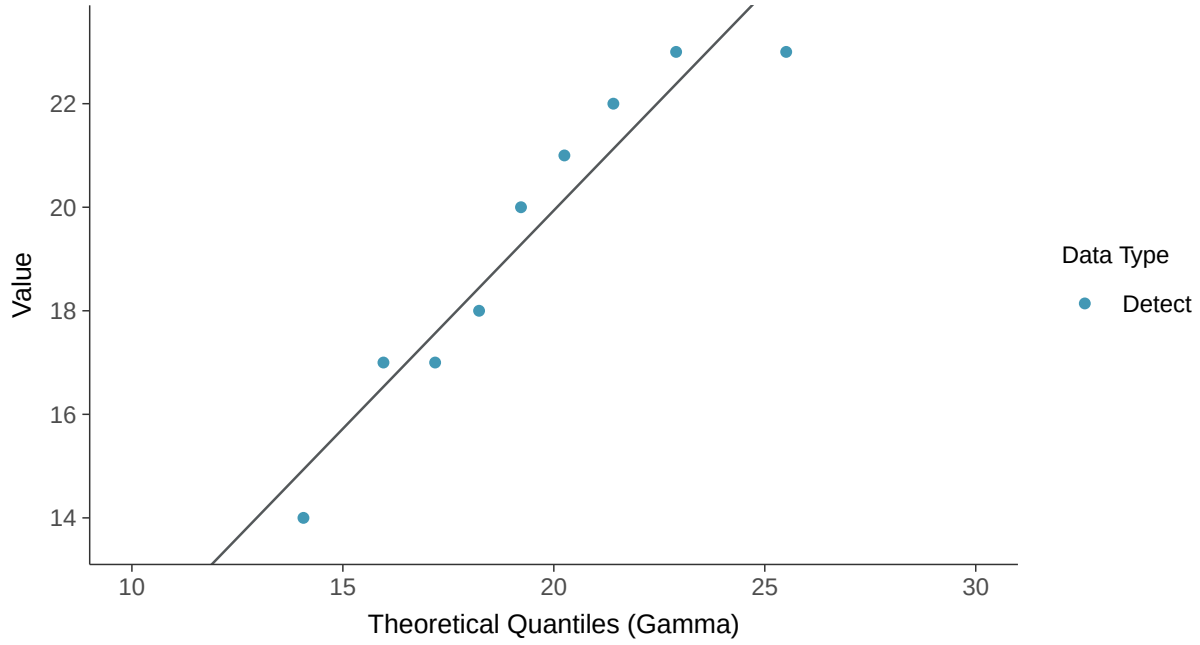
Lognormal Q-Q plot

Chloride (as Cl), MW-16 (mg/L)



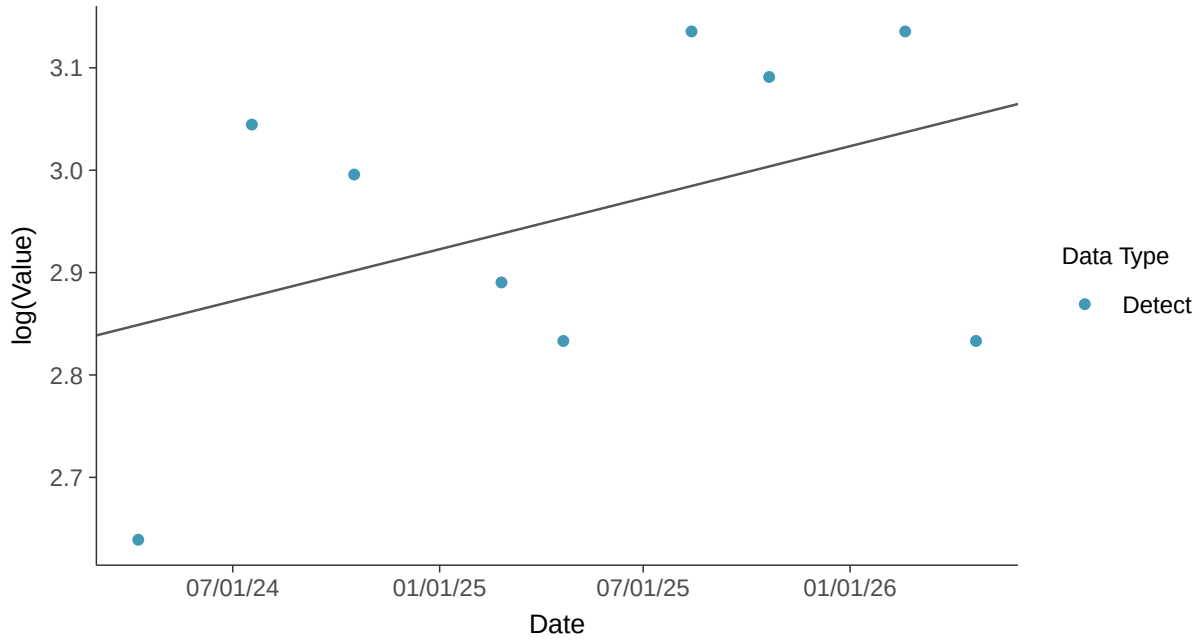
Gamma Q-Q plot

Chloride (as Cl), MW-16 (mg/L)



Trend Regression: Lognormal MLE

Chloride (as Cl), MW-16 (mg/L)

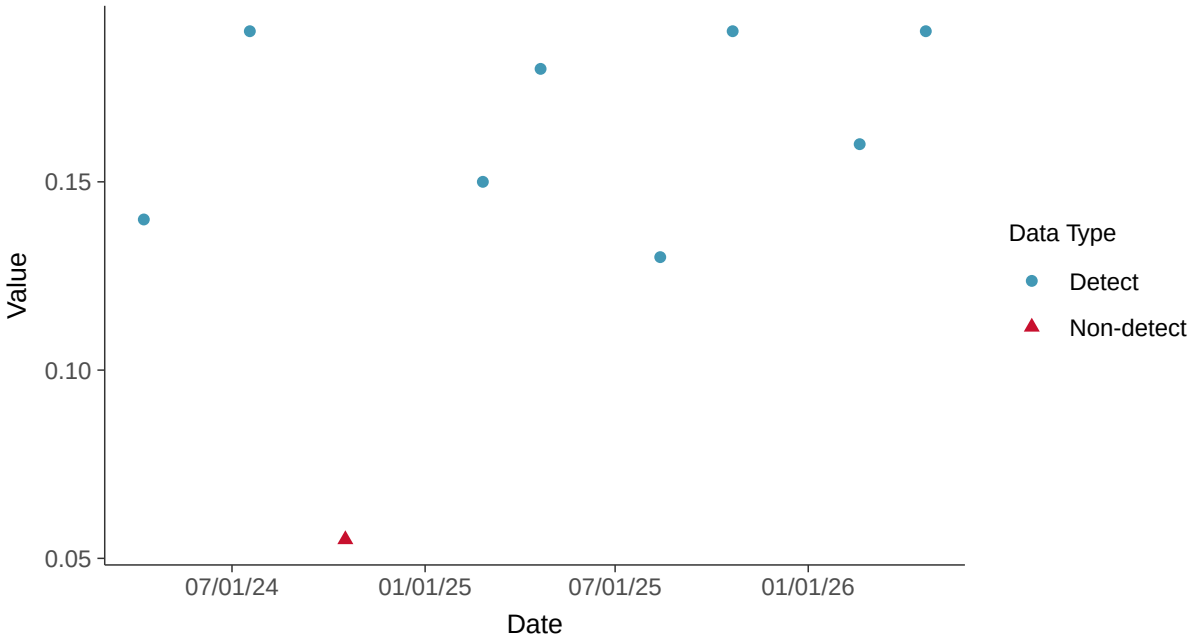


Appendix III: Fluoride, MW-16

ID: 26_1_3_112

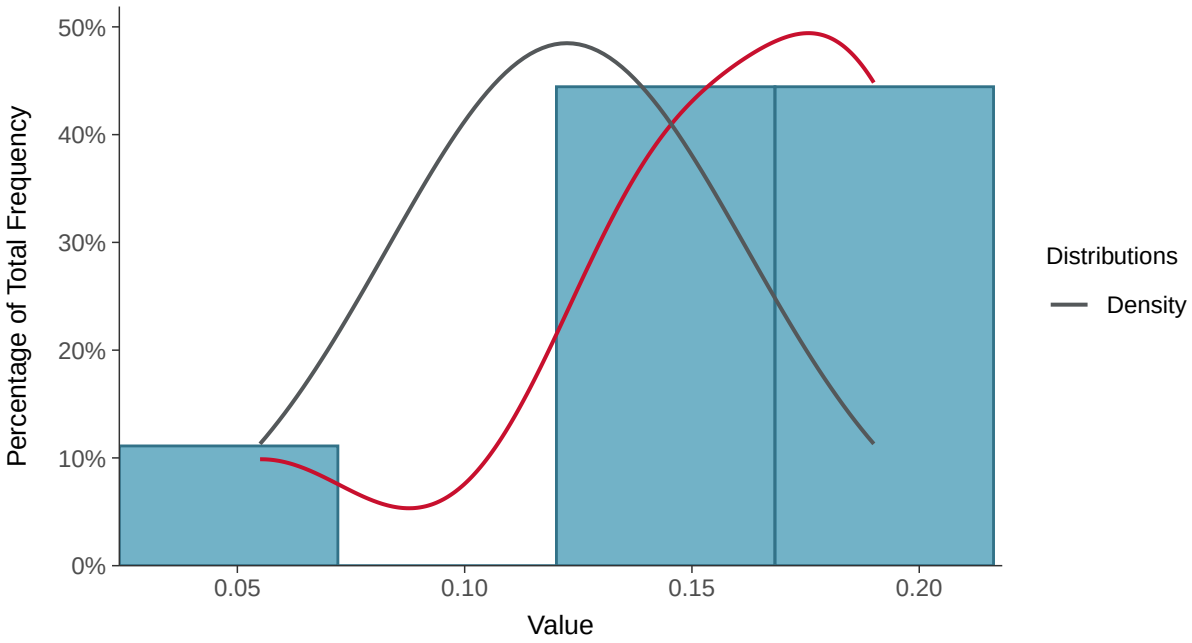
Scatter Plot

Fluoride, MW-16 (mg/L)



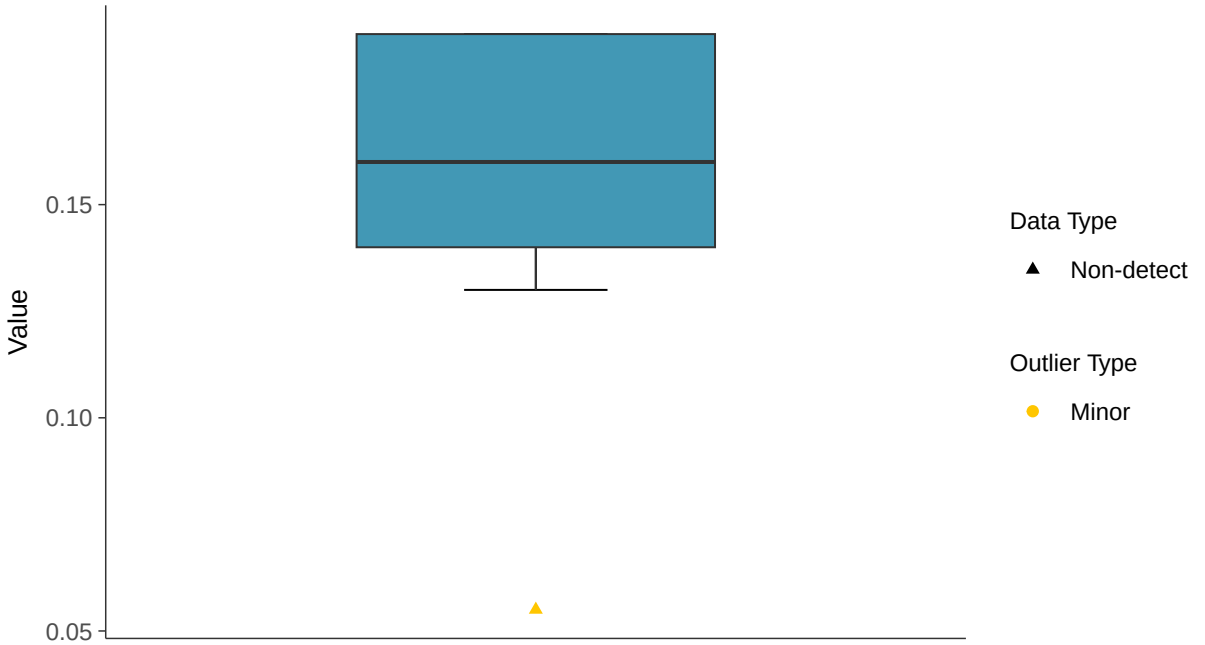
Histogram

Fluoride, MW-16 (mg/L)



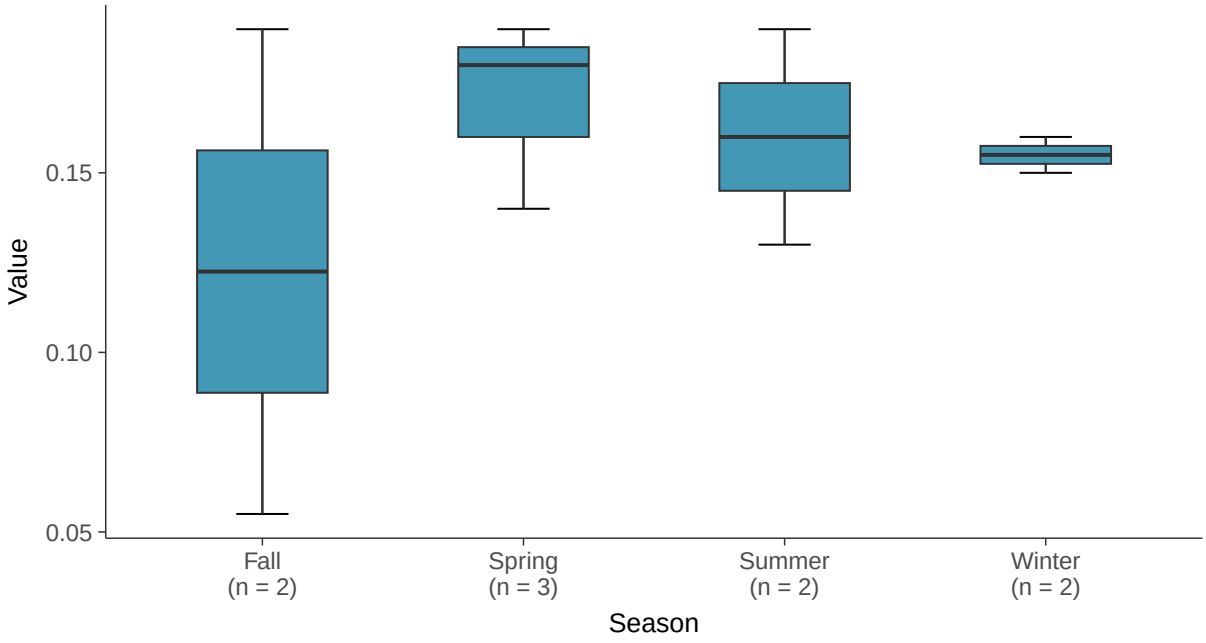
Boxplot

Fluoride, MW-16 (mg/L)



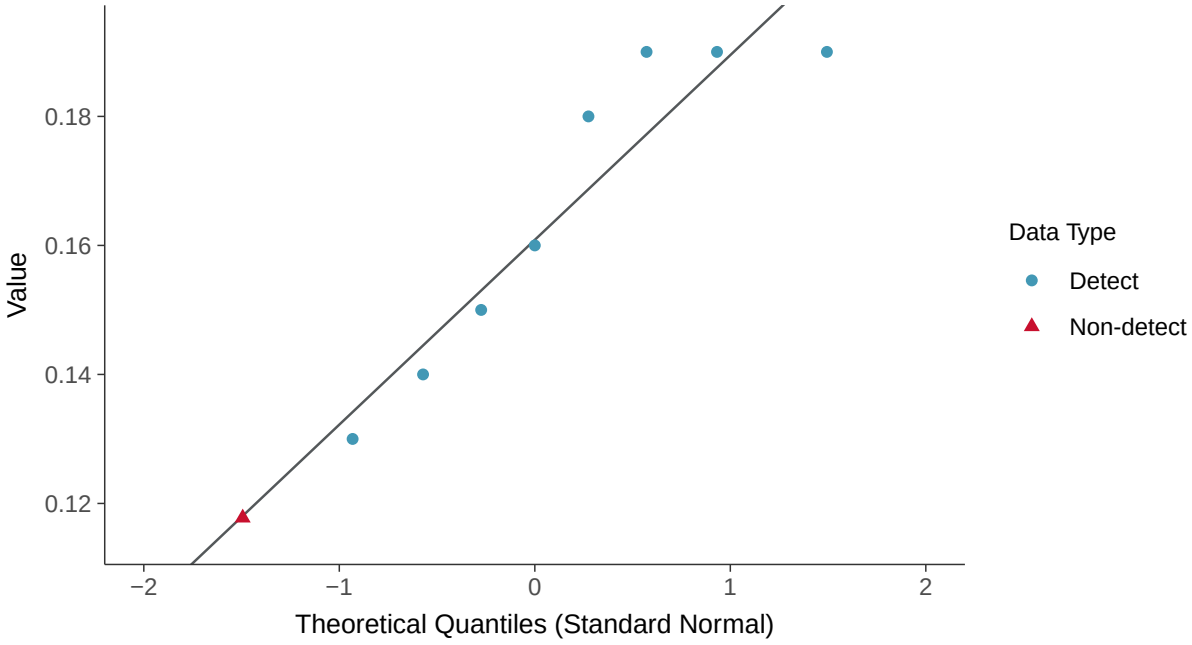
Boxplot by Season

Fluoride, MW-16 (mg/L)



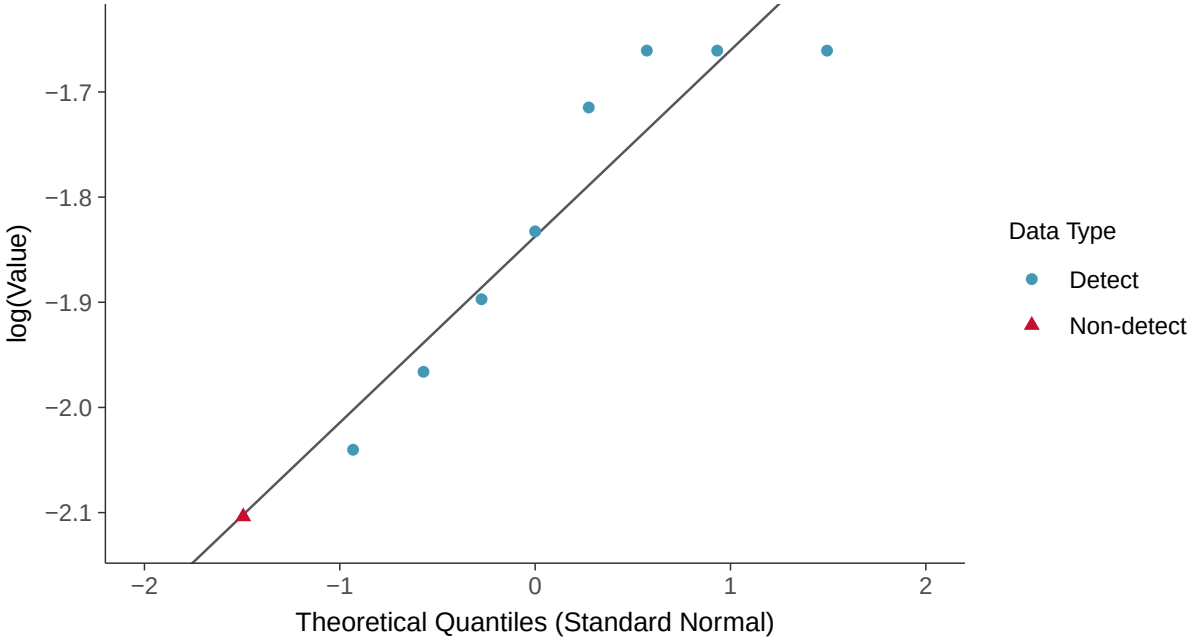
Normal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-16 (mg/L)



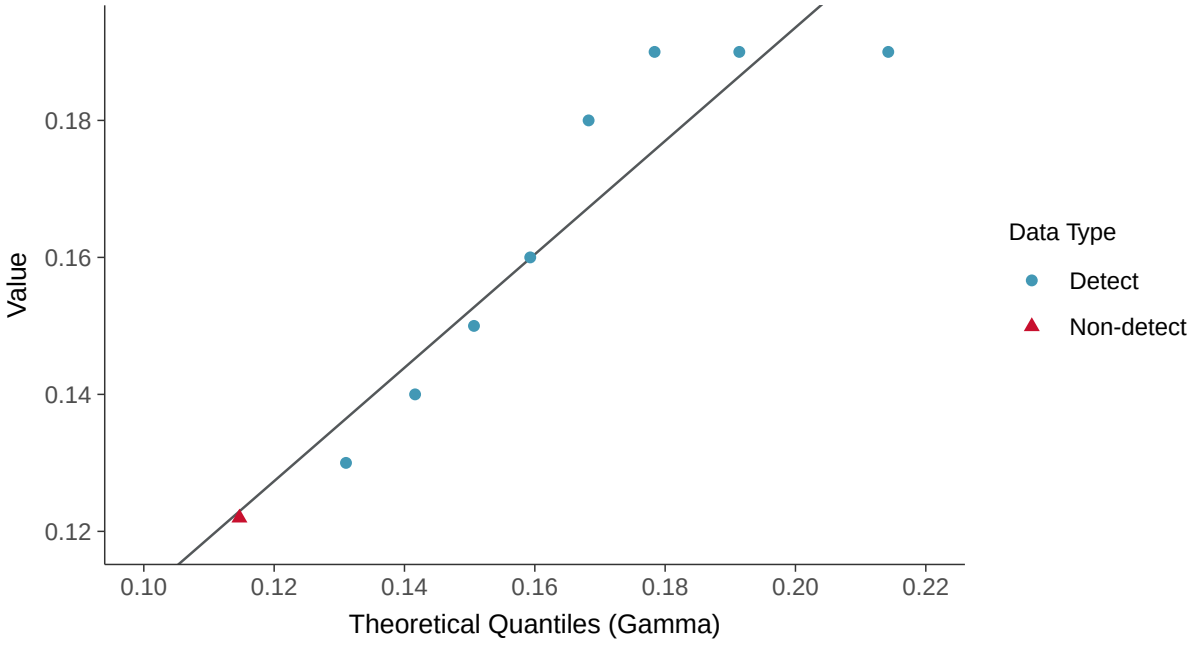
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride, MW-16 (mg/L)



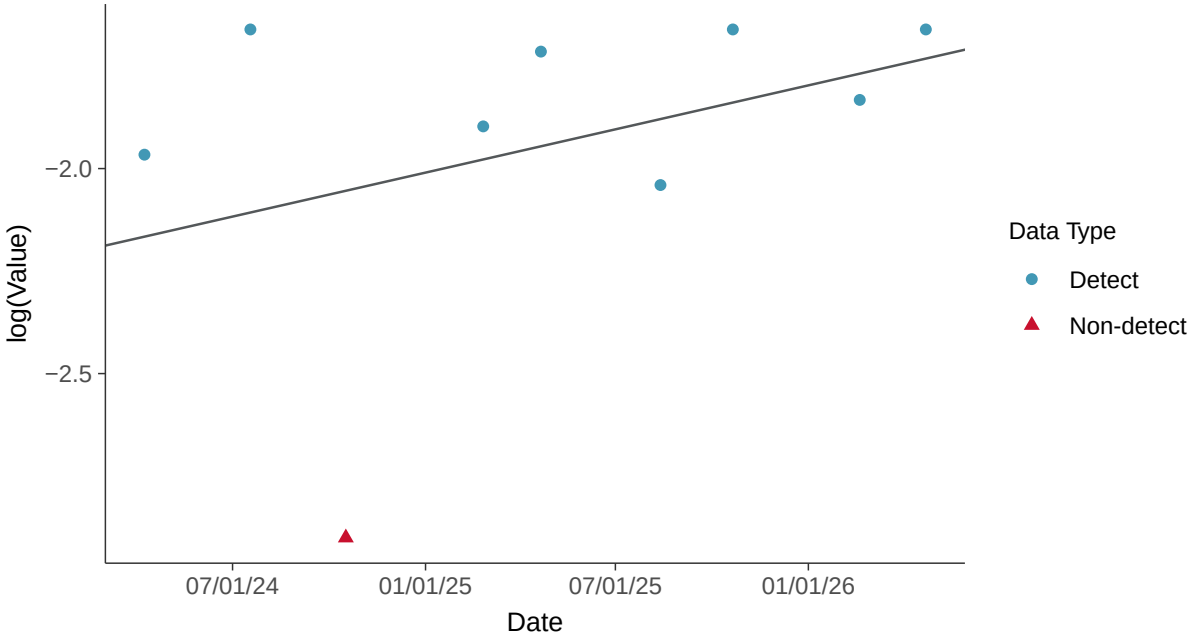
Gamma Q-Q plot using ROS Imputed Estimates

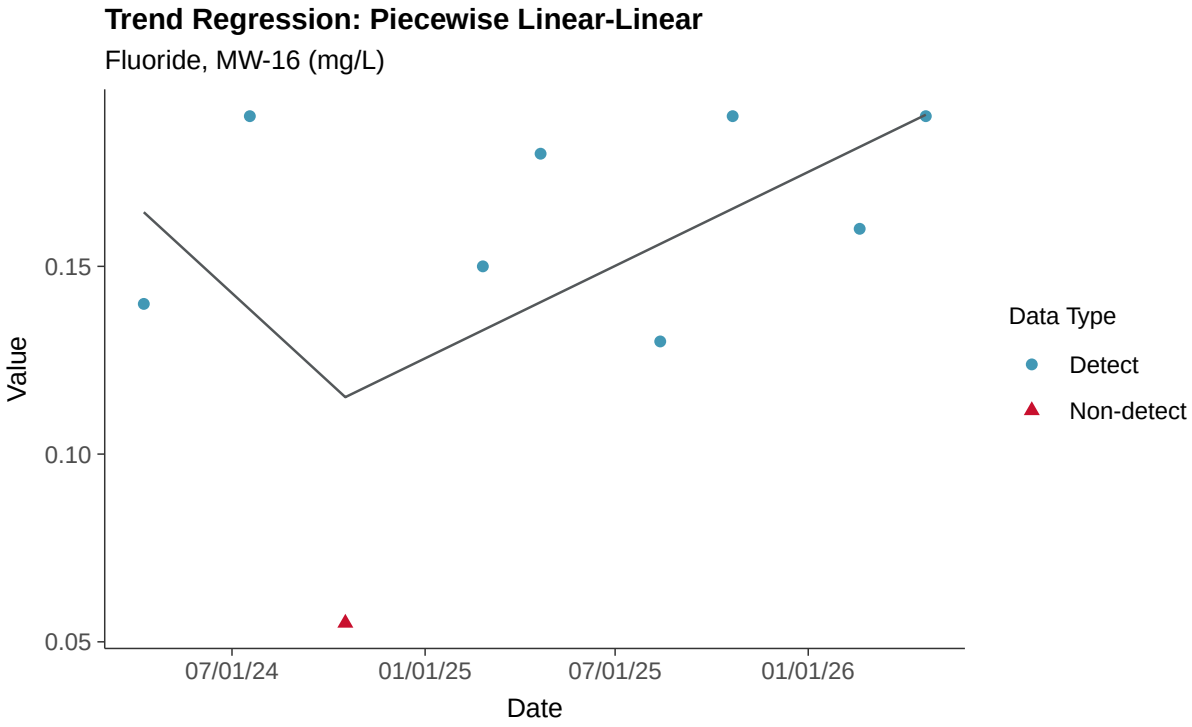
Fluoride, MW-16 (mg/L)



Trend Regression: Lognormal MLE

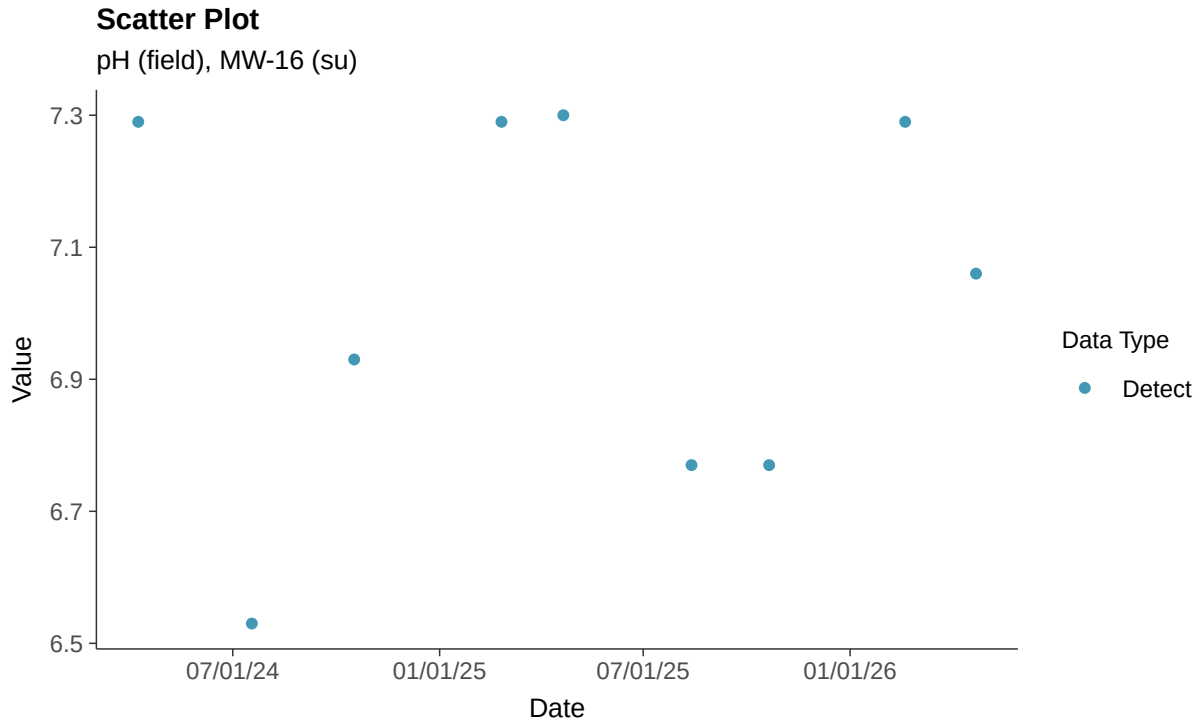
Fluoride, MW-16 (mg/L)

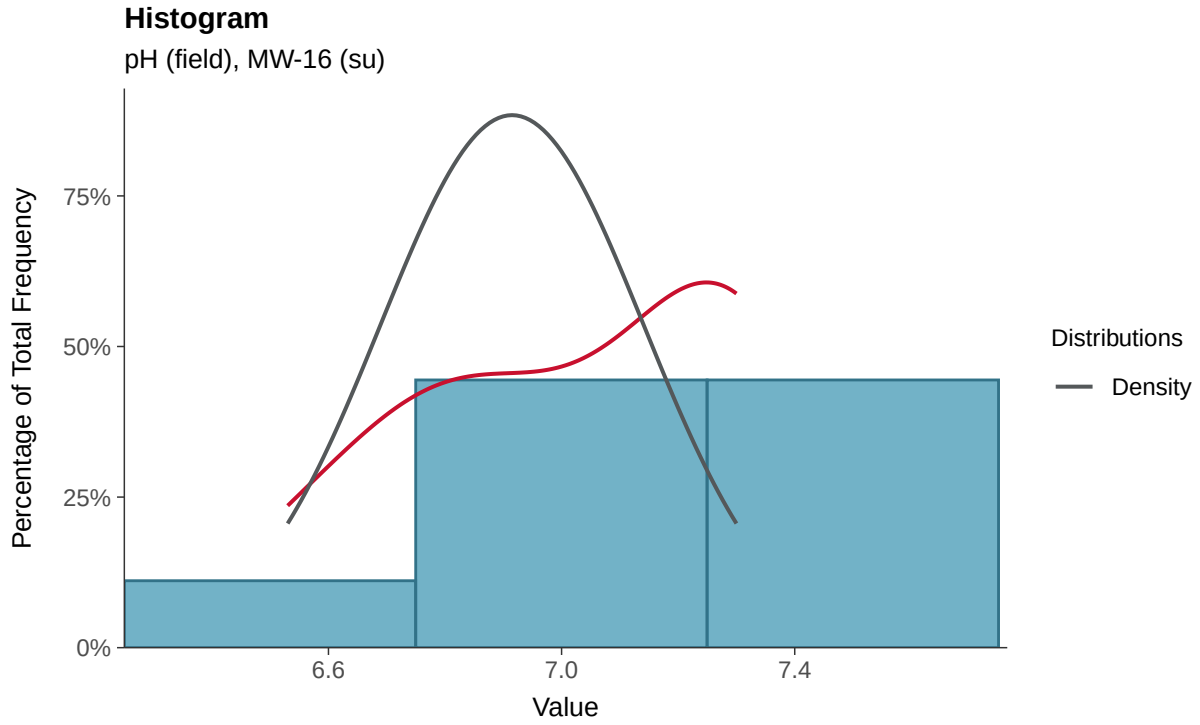



Trend Regression: Piecewise Linear-Linear
Fluoride, MW-16 (mg/L)
Value
0.15
0.10
0.05
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix III: pH (field), MW-16

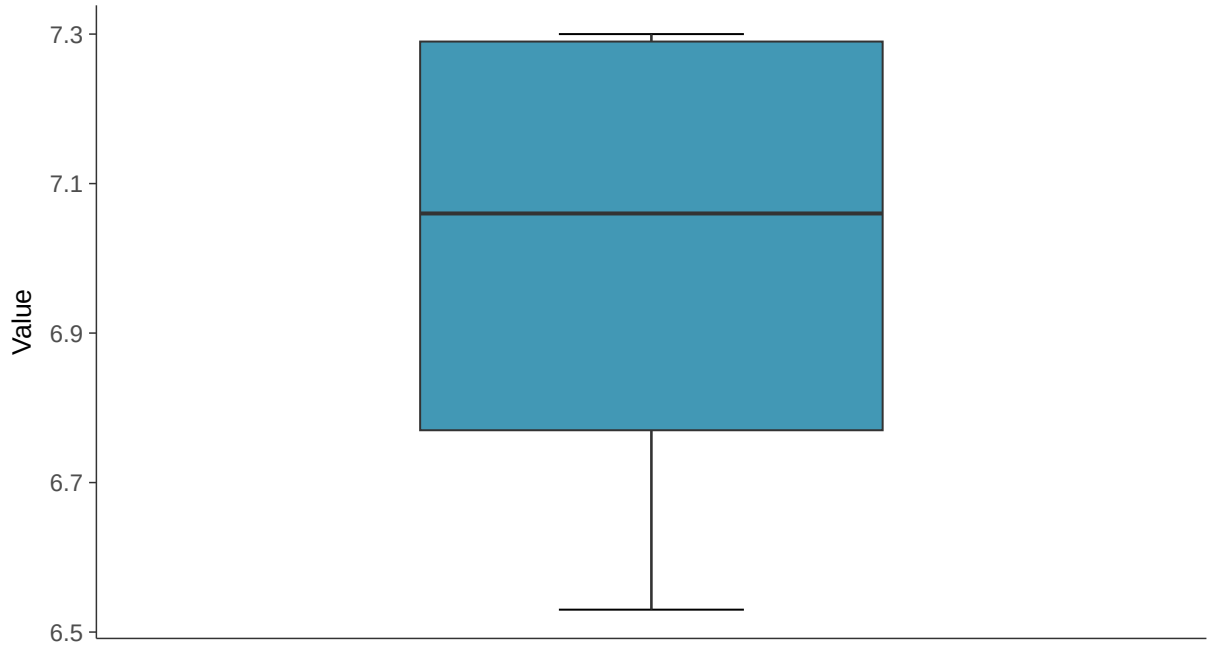
ID: 26_1_3_120





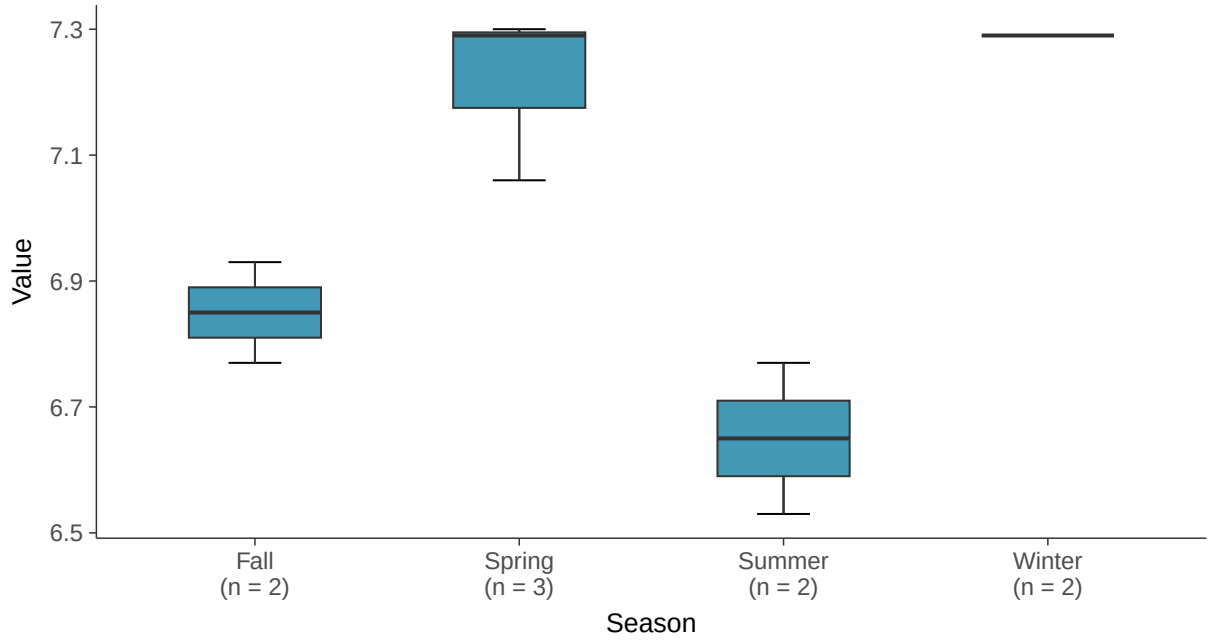
Boxplot

pH (field), MW-16 (su)



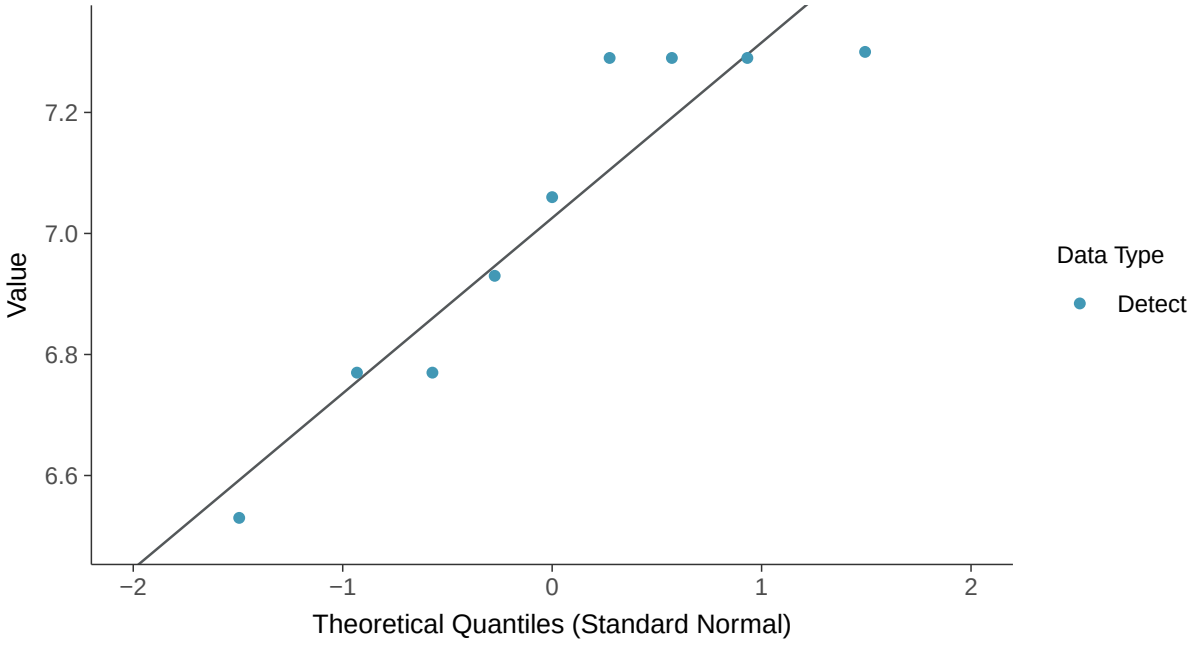
Boxplot by Season

pH (field), MW-16 (su)



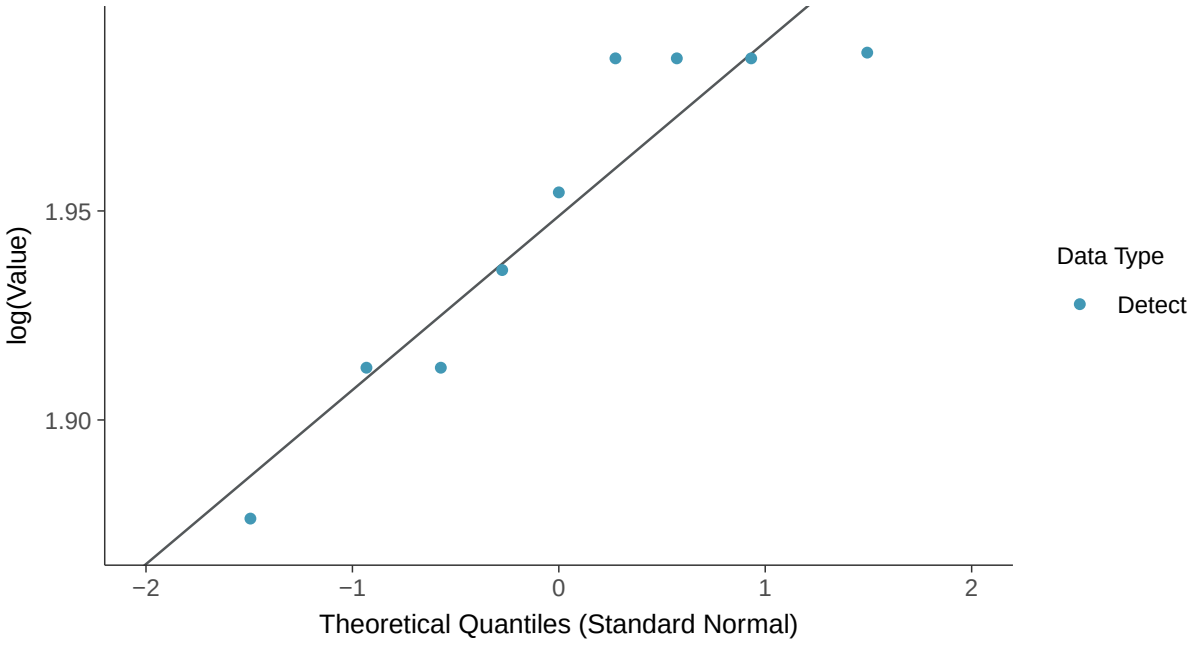
Normal Q-Q plot

pH (field), MW-16 (su)



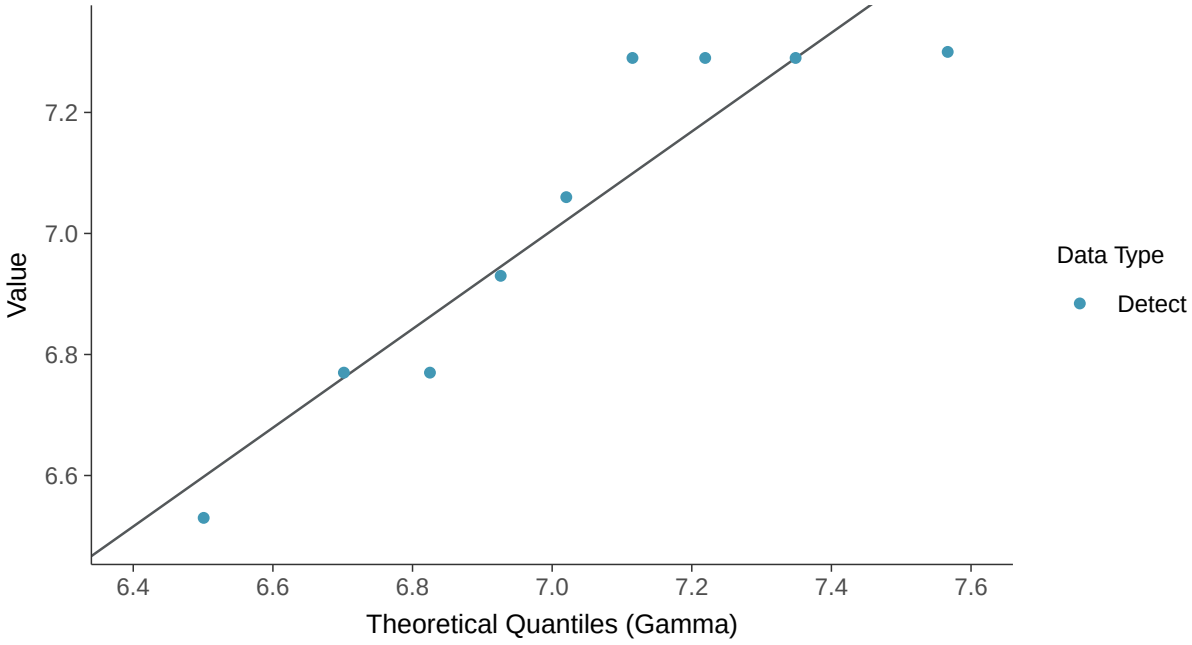
Lognormal Q-Q plot

pH (field), MW-16 (su)



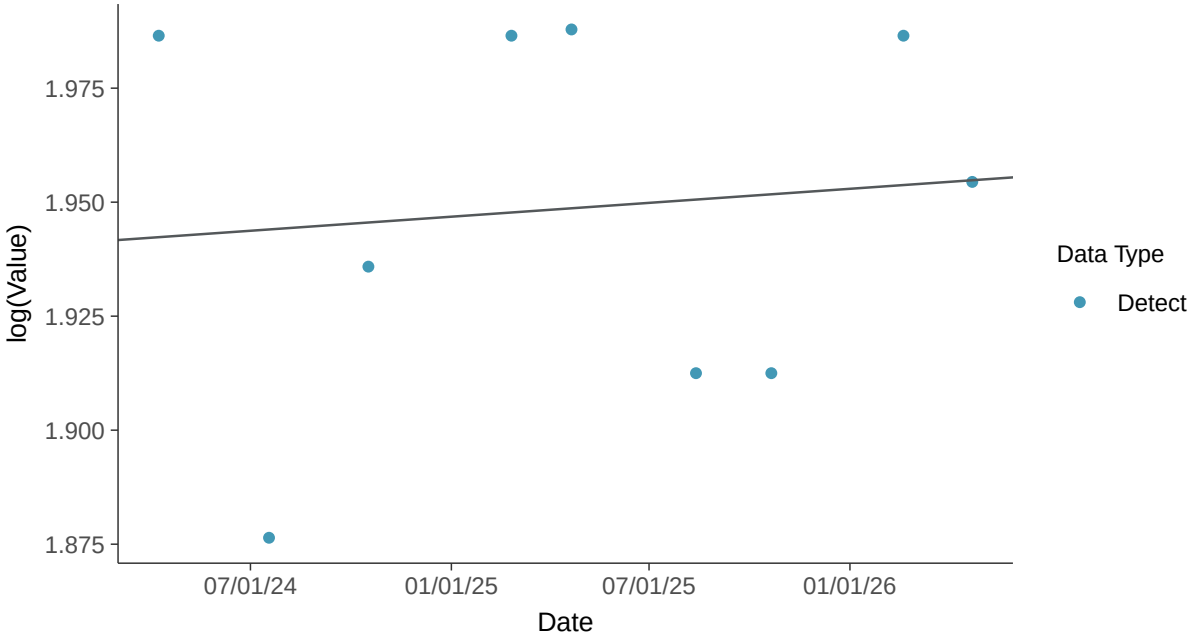
Gamma Q-Q plot

pH (field), MW-16 (su)



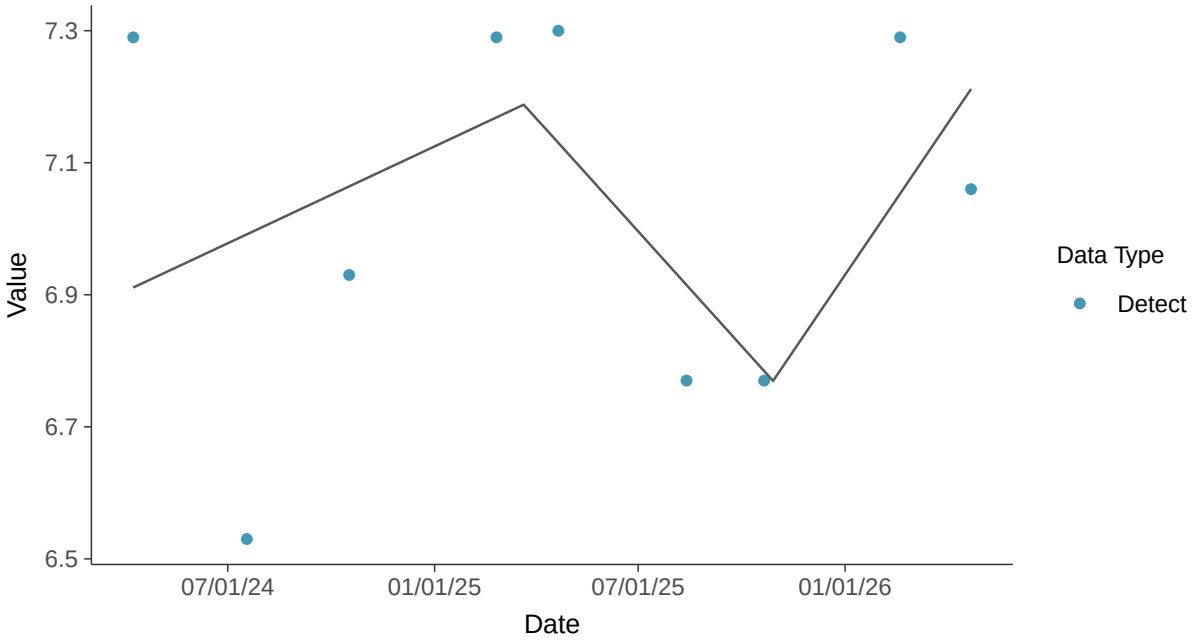
Trend Regression: Lognormal MLE

pH (field), MW-16 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-16 (su)

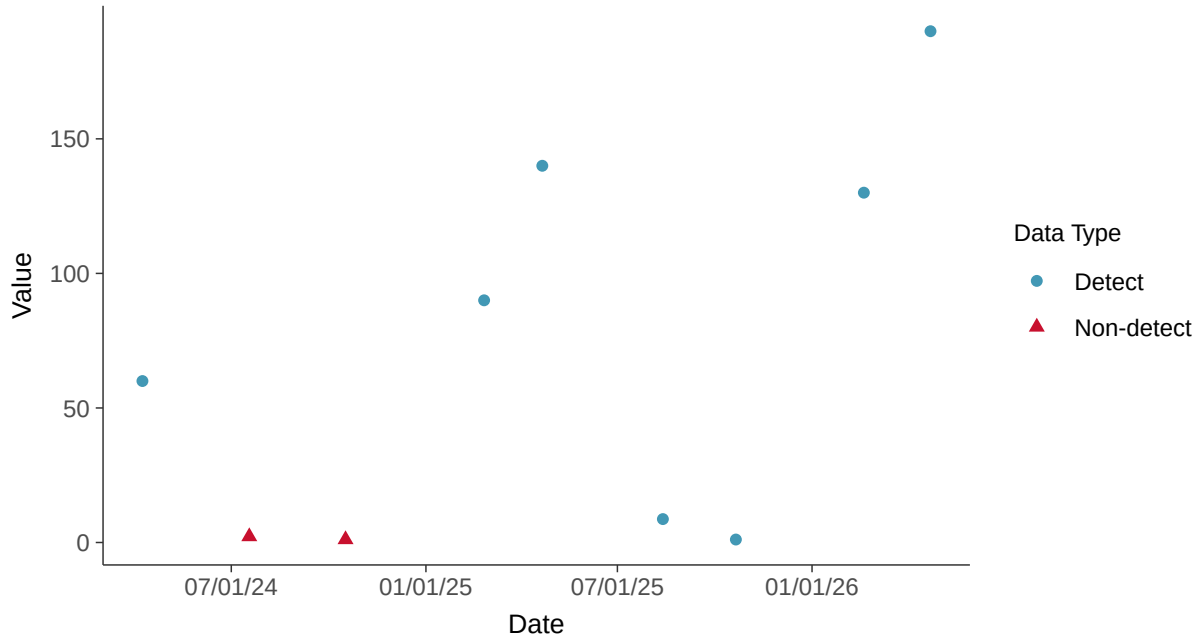


Appendix III: Sulfate (as SO4), MW-16

ID: 26_1_3_124

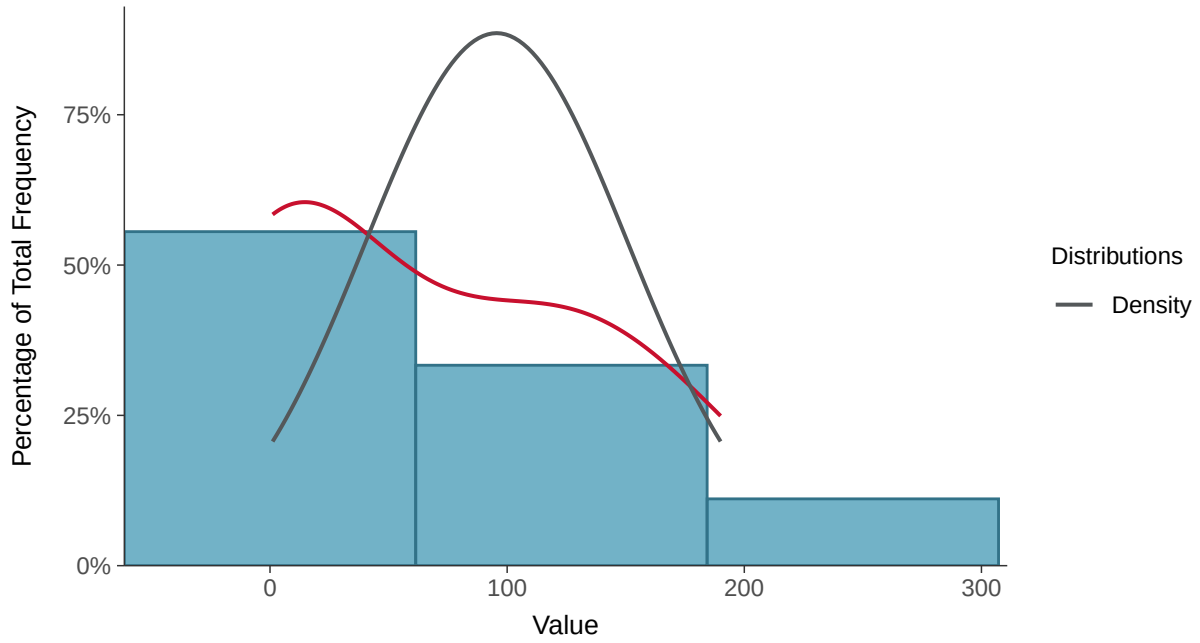
Scatter Plot

Sulfate (as SO4), MW-16 (mg/L)



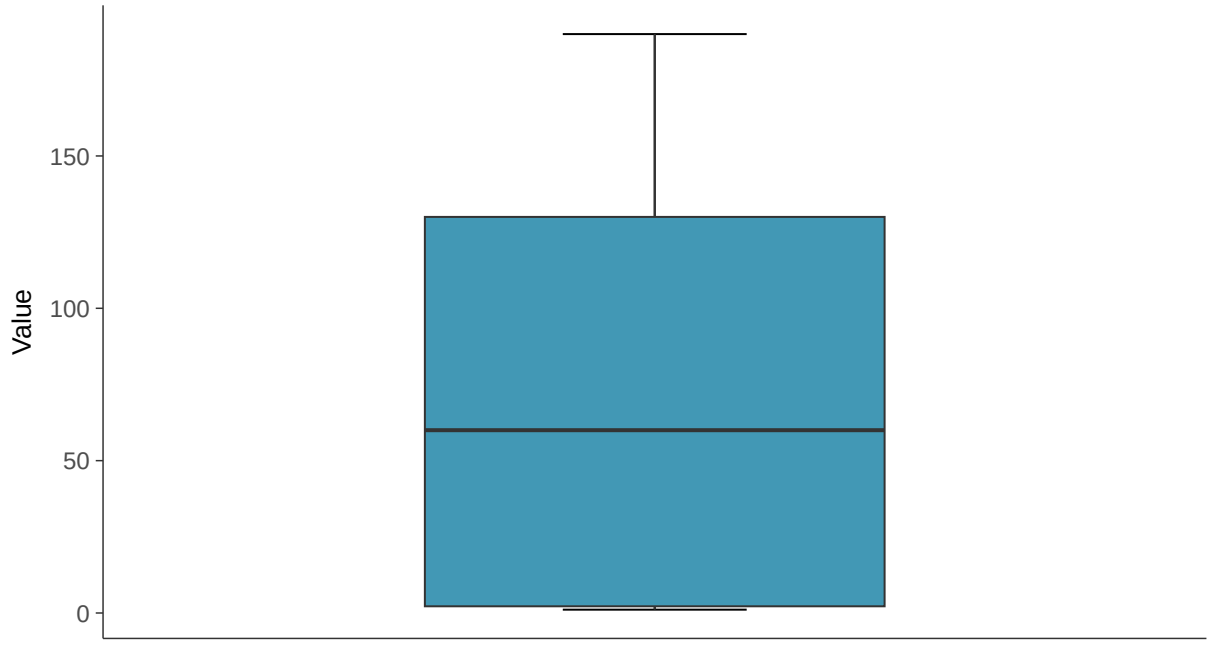
Histogram

Sulfate (as SO4), MW-16 (mg/L)



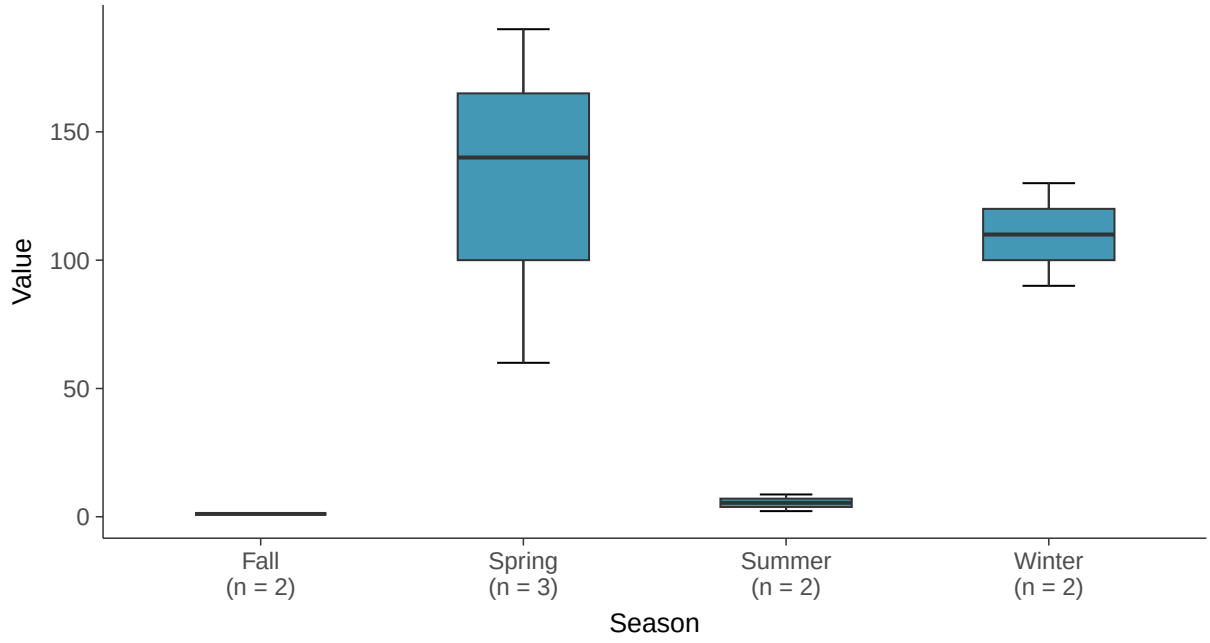
Boxplot

Sulfate (as SO4), MW-16 (mg/L)



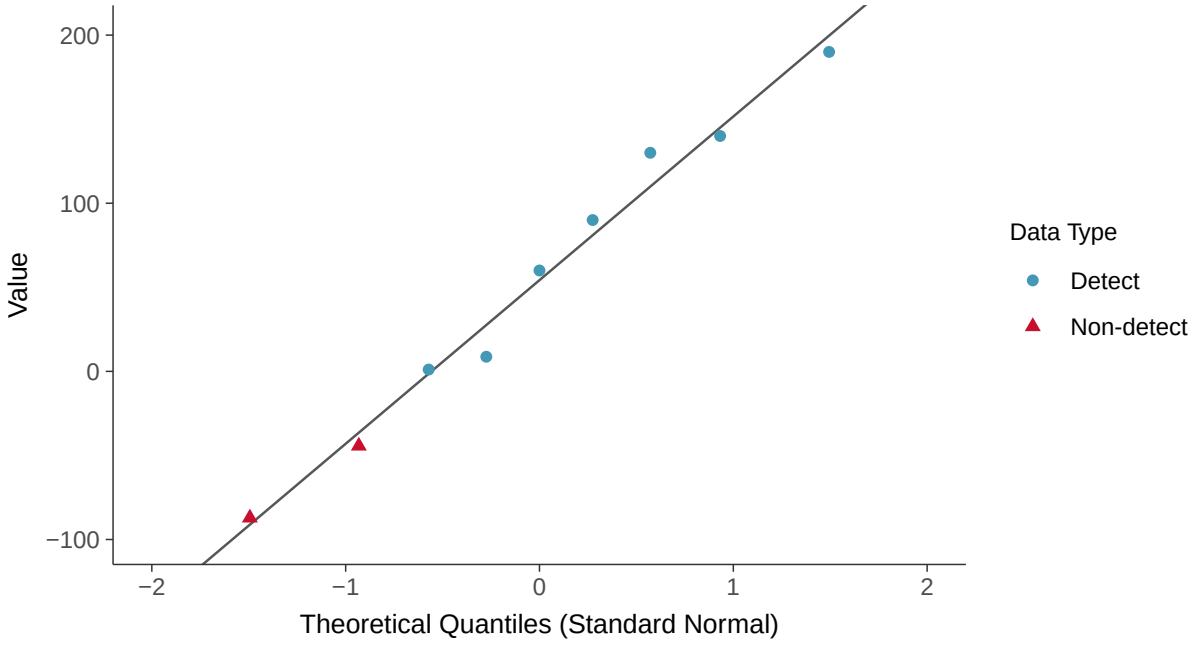
Boxplot by Season

Sulfate (as SO4), MW-16 (mg/L)



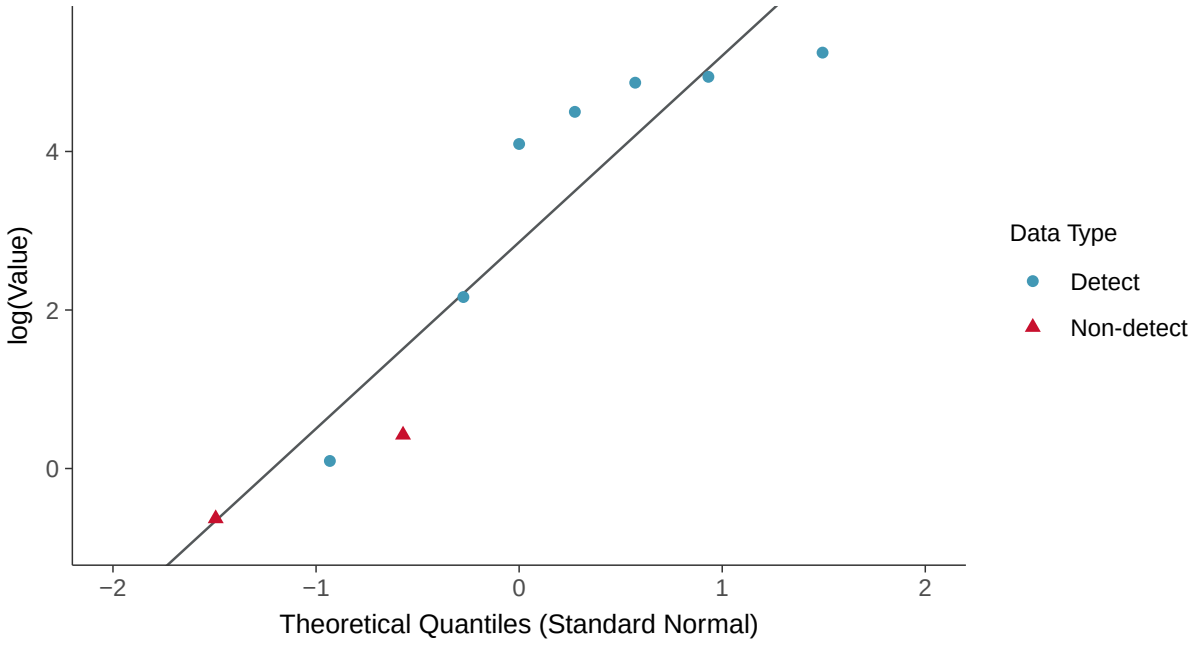
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-16 (mg/L)



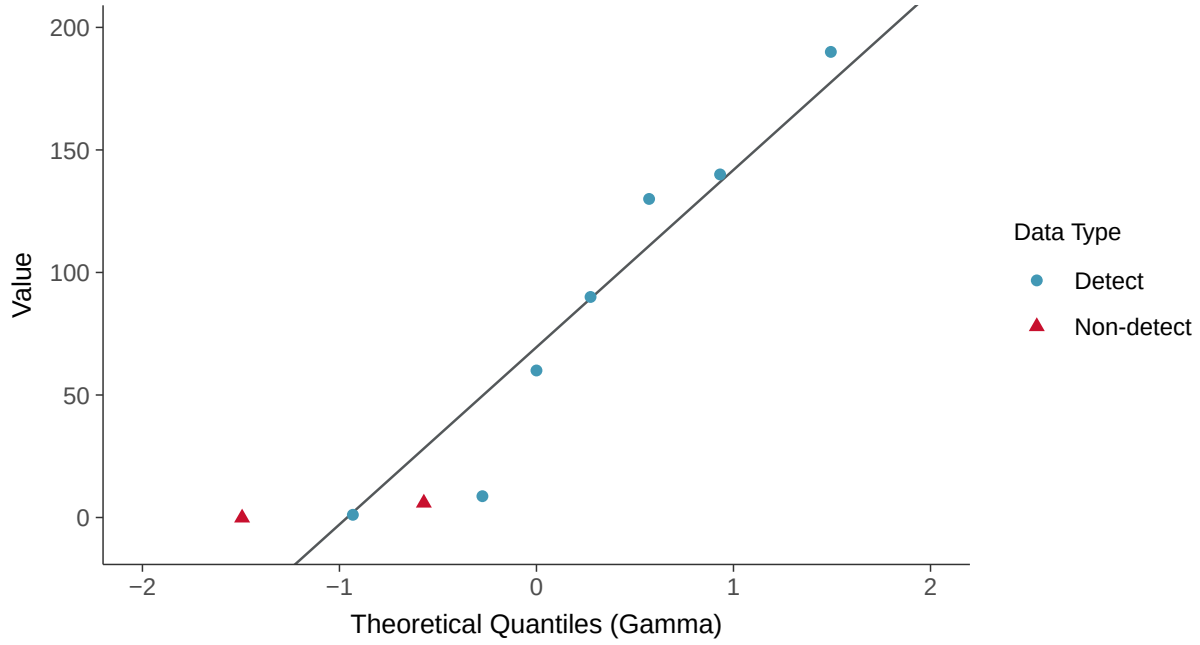
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-16 (mg/L)



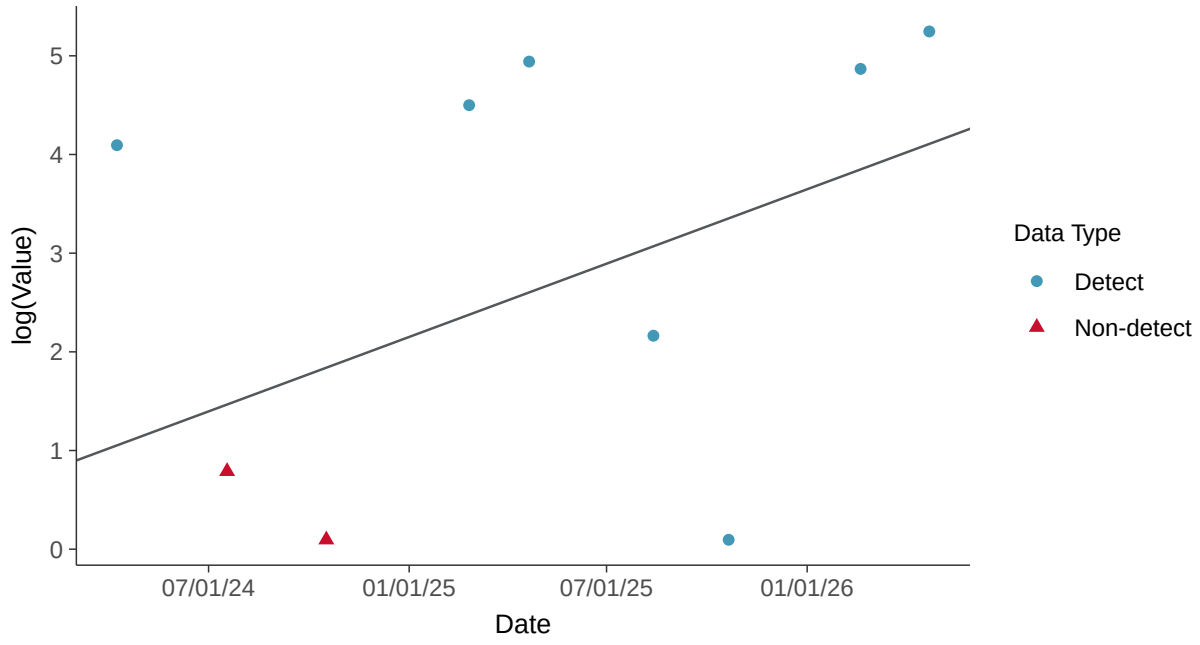
Gamma Q-Q plot using ROS Imputed Estimates

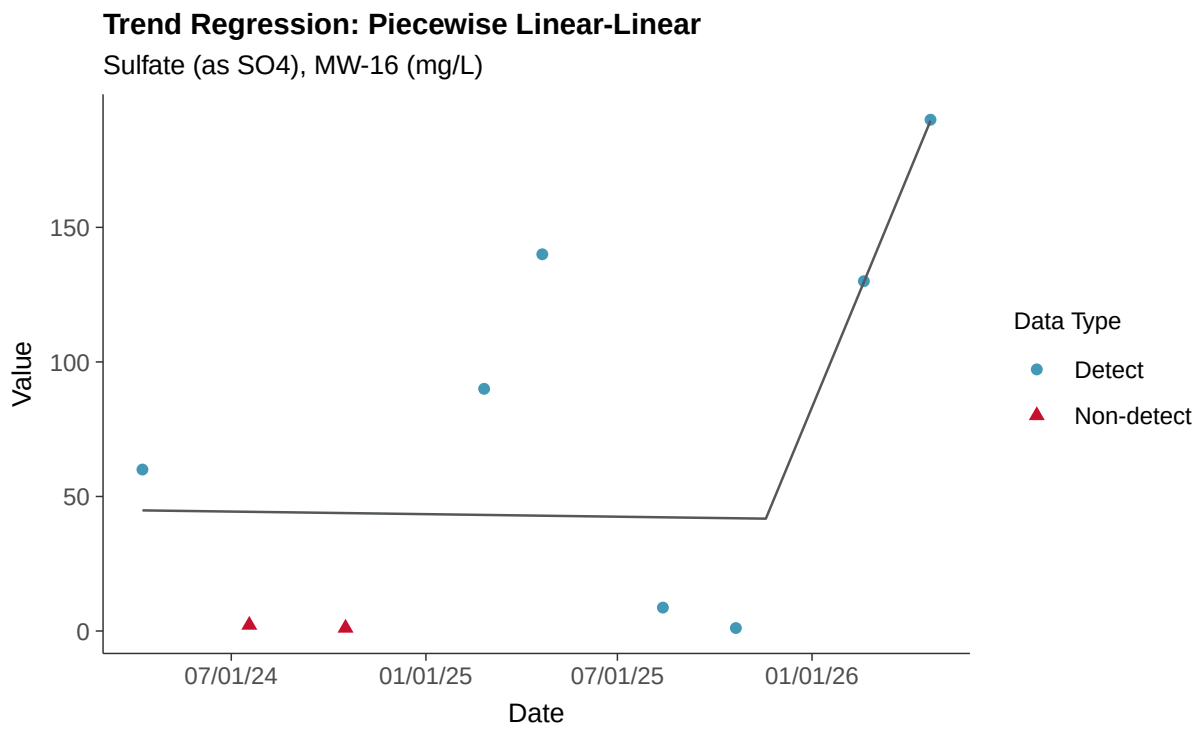
Sulfate (as SO4), MW-16 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-16 (mg/L)



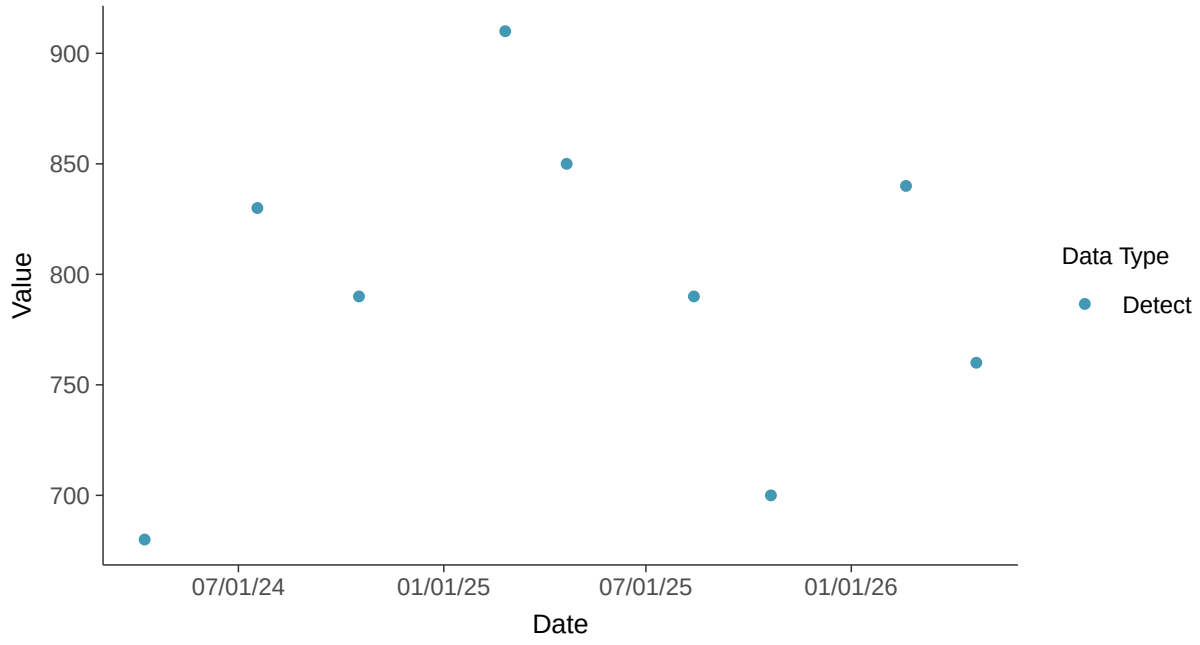

Trend Regression: Piecewise Linear-Linear
Sulfate (as SO4), MW-16 (mg/L)
Value
150
100
50
0
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix III: Total Dissolved Solids, MW-16

ID: 26_1_3_126

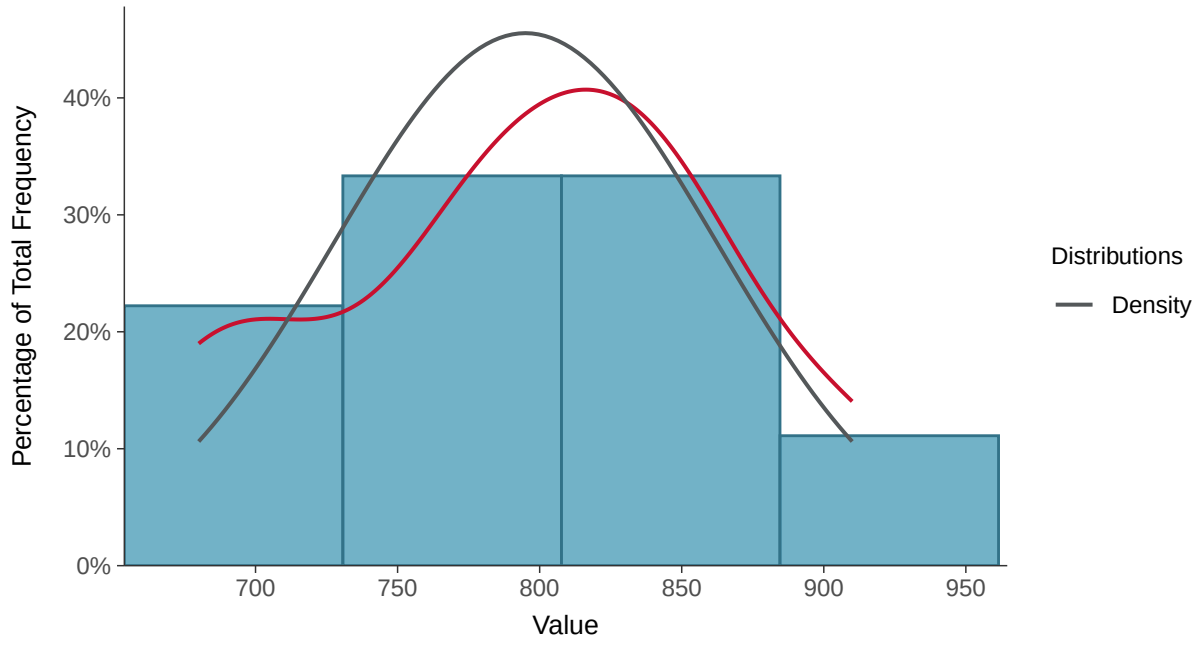
Scatter Plot

Total Dissolved Solids, MW-16 (mg/L)



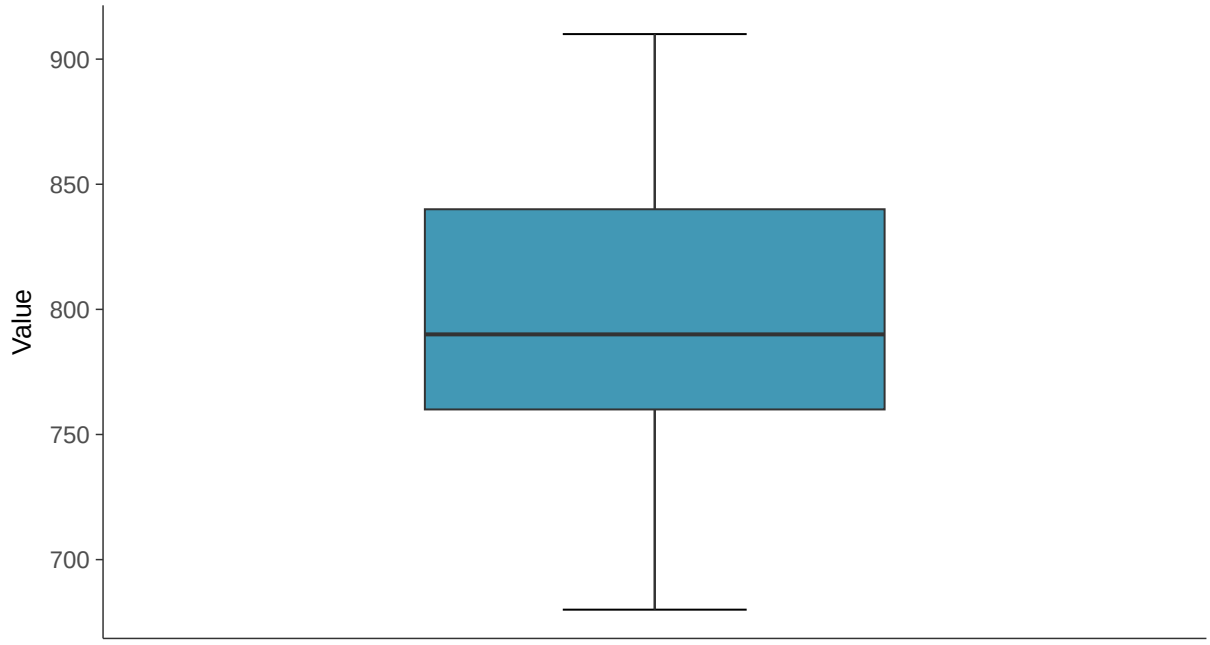
Histogram

Total Dissolved Solids, MW-16 (mg/L)



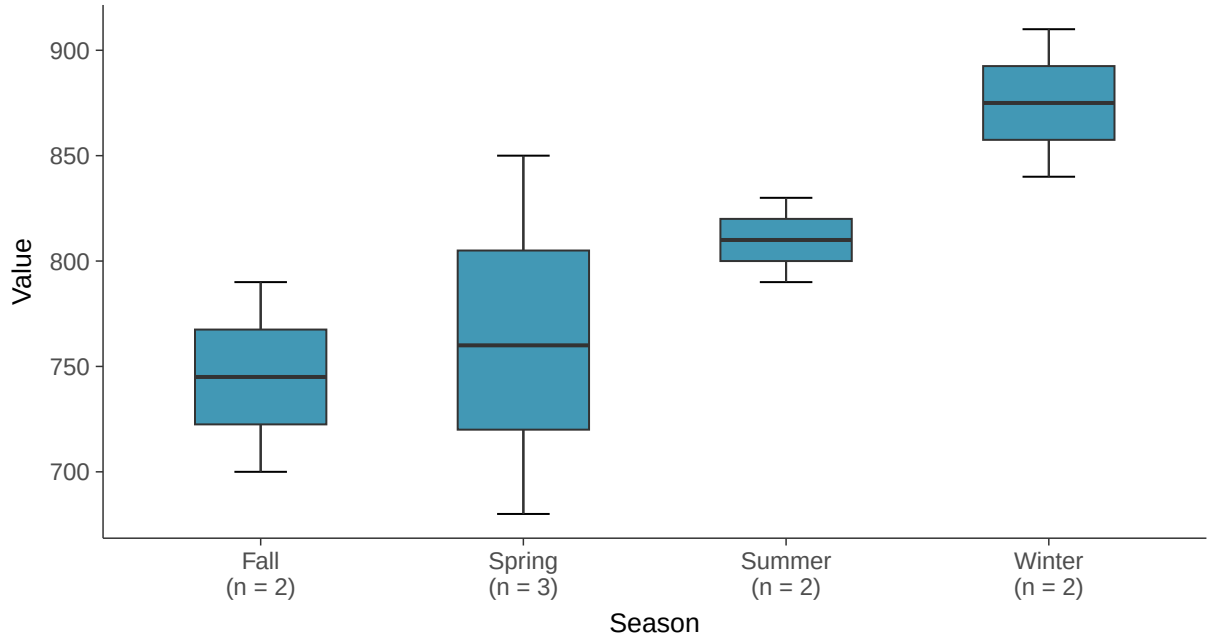
Boxplot

Total Dissolved Solids, MW-16 (mg/L)



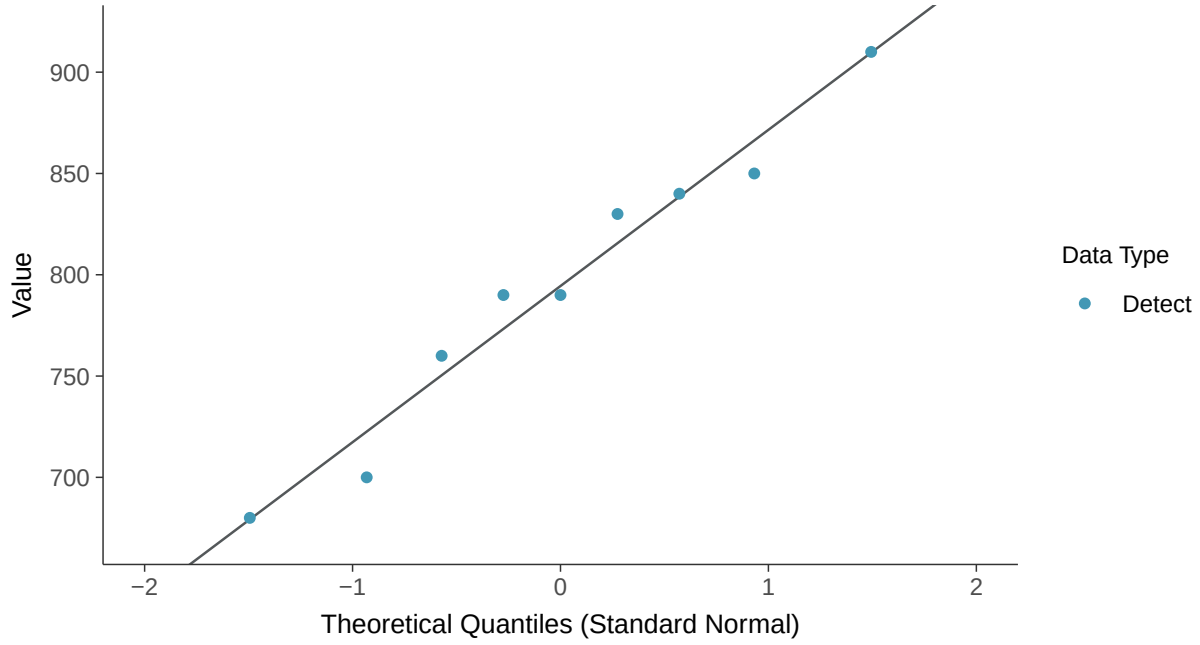
Boxplot by Season

Total Dissolved Solids, MW-16 (mg/L)



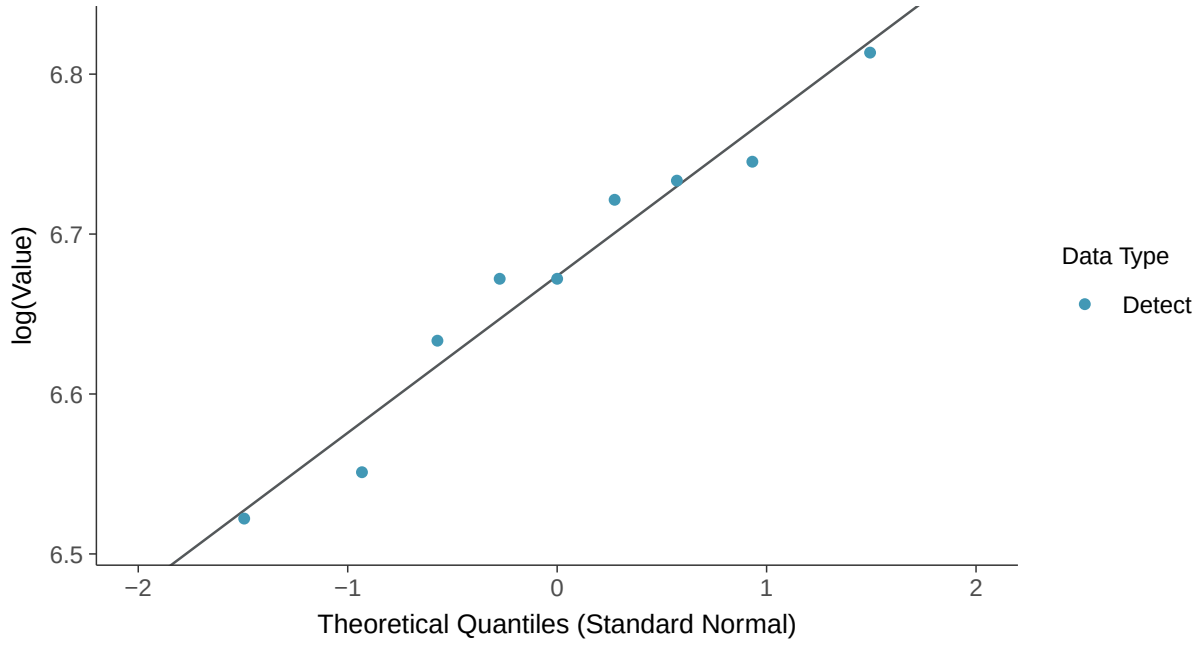
Normal Q-Q plot

Total Dissolved Solids, MW-16 (mg/L)



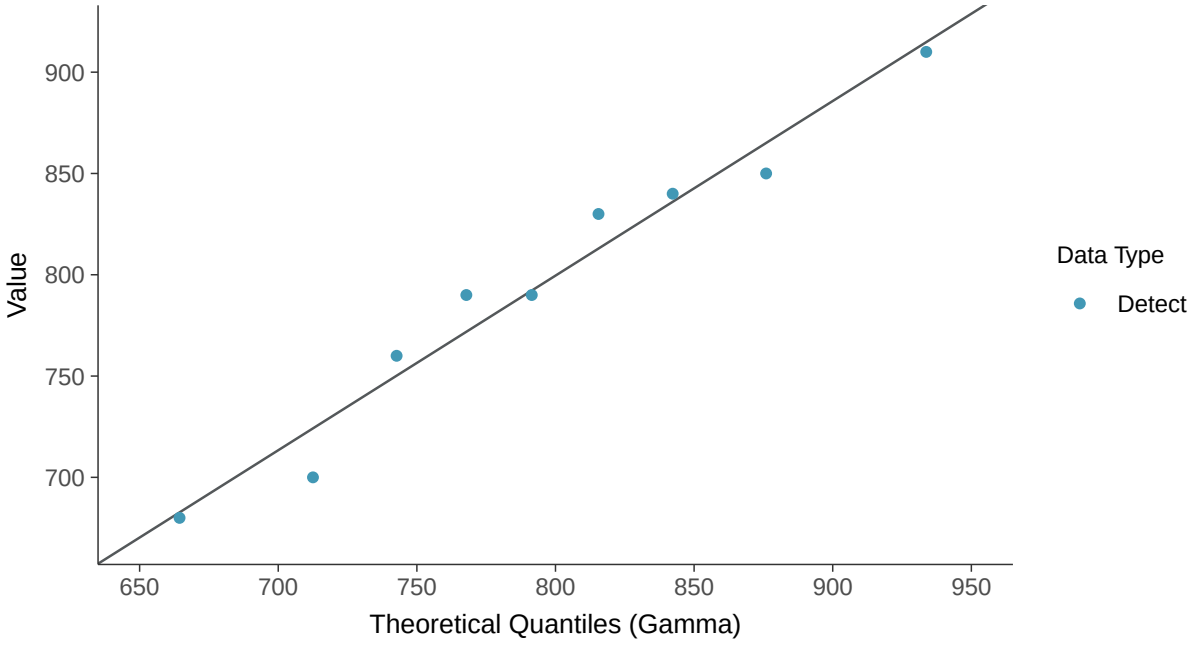
Lognormal Q-Q plot

Total Dissolved Solids, MW-16 (mg/L)



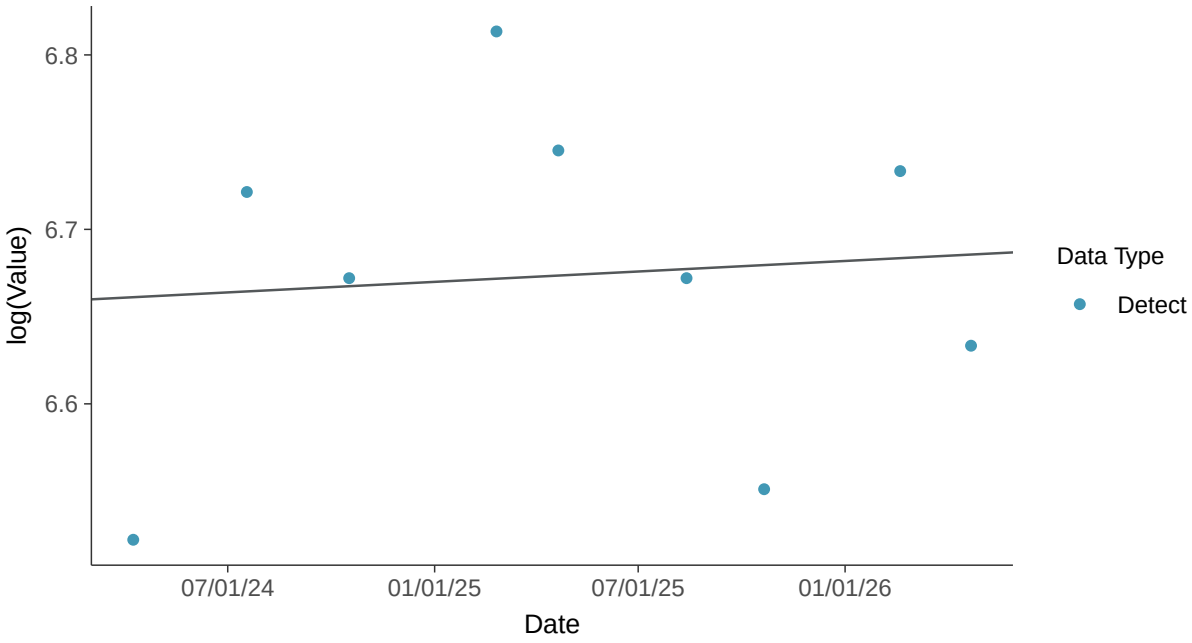
Gamma Q-Q plot

Total Dissolved Solids, MW-16 (mg/L)



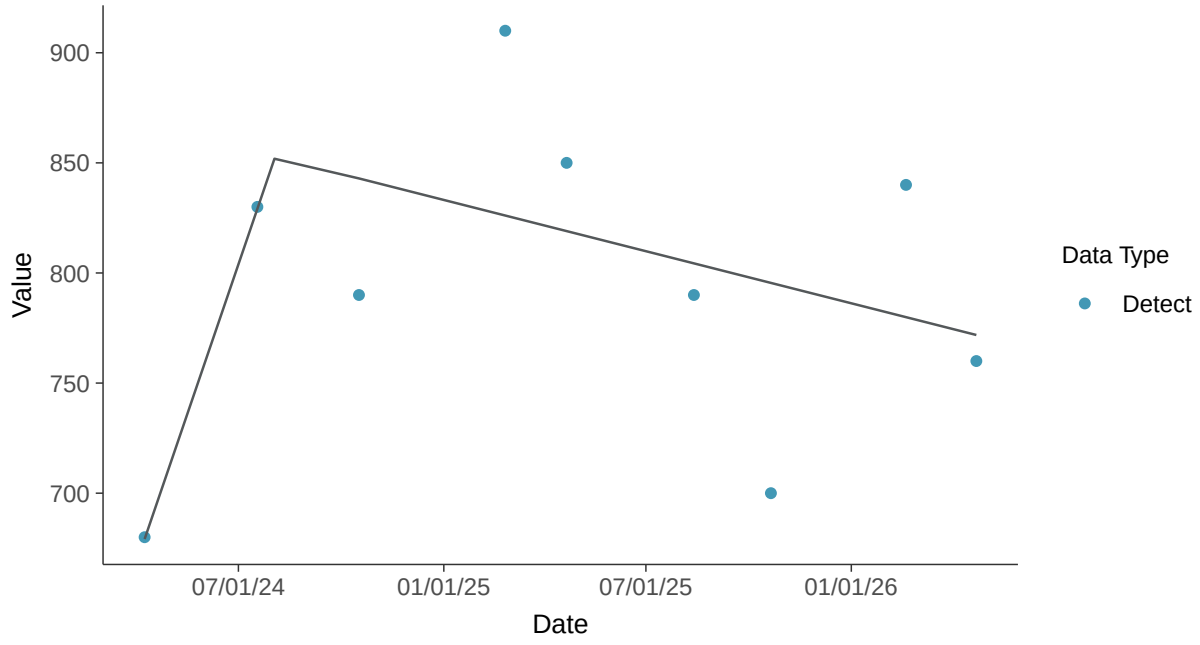
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-16 (mg/L)



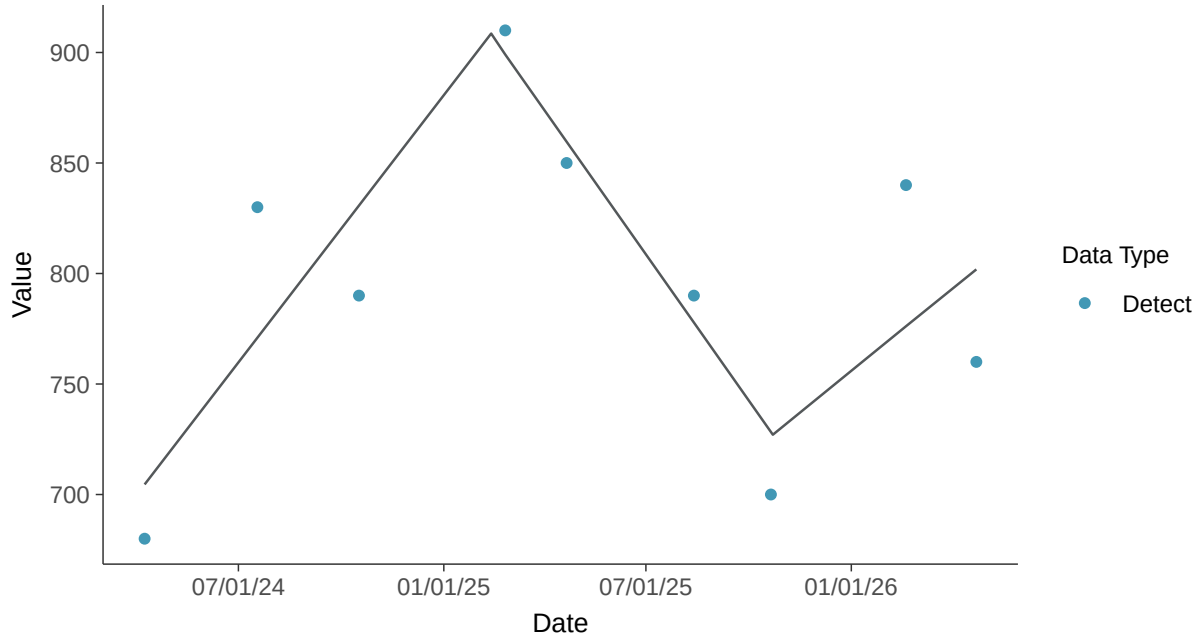
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-16 (mg/L)



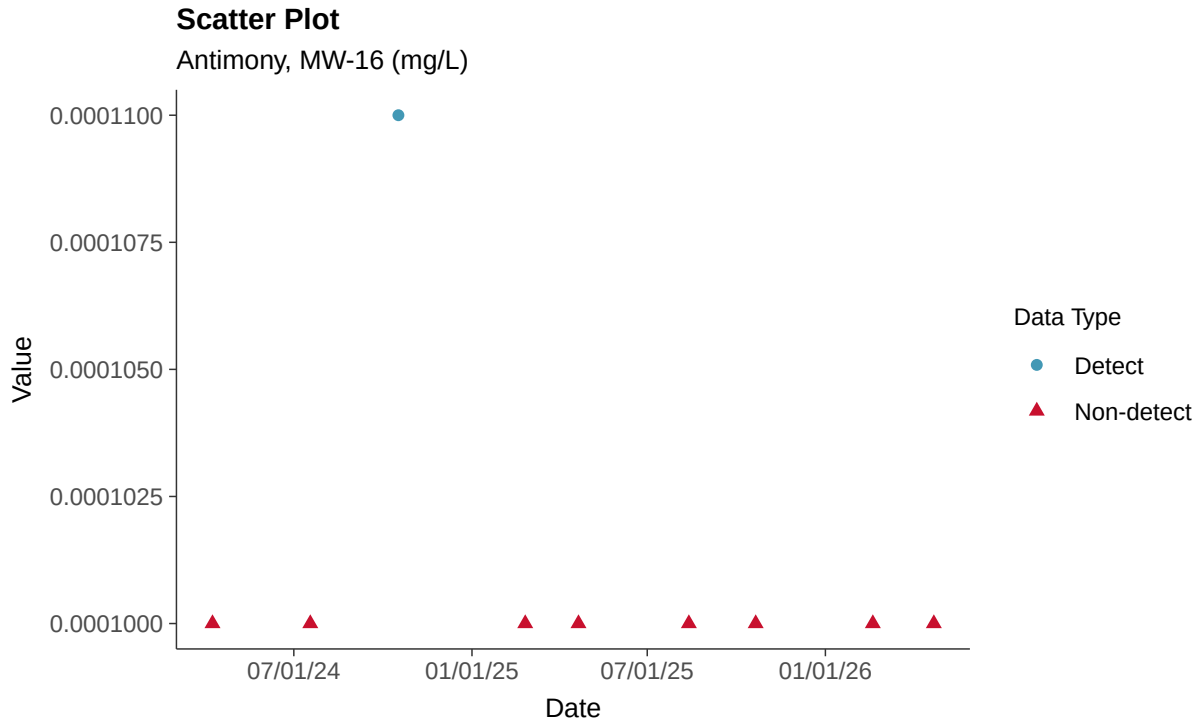
Trend Regression: Piecewise Linear-Linear-Linear

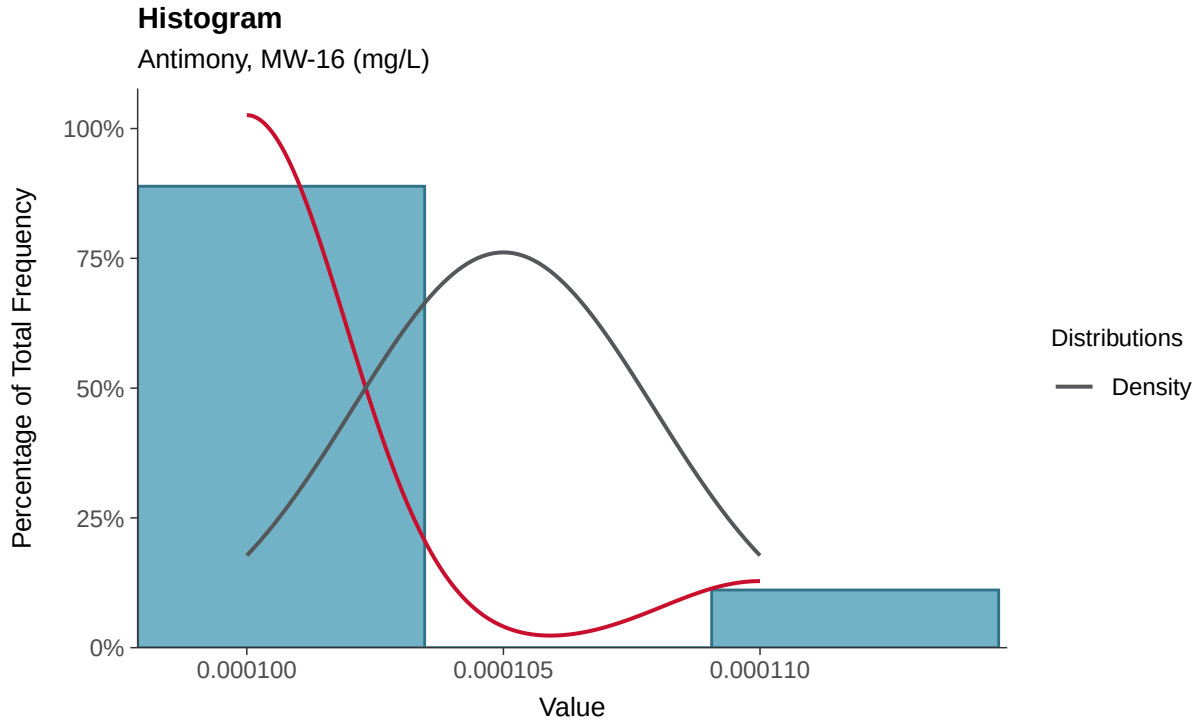
Total Dissolved Solids, MW-16 (mg/L)



Appendix IV: Antimony, MW-16

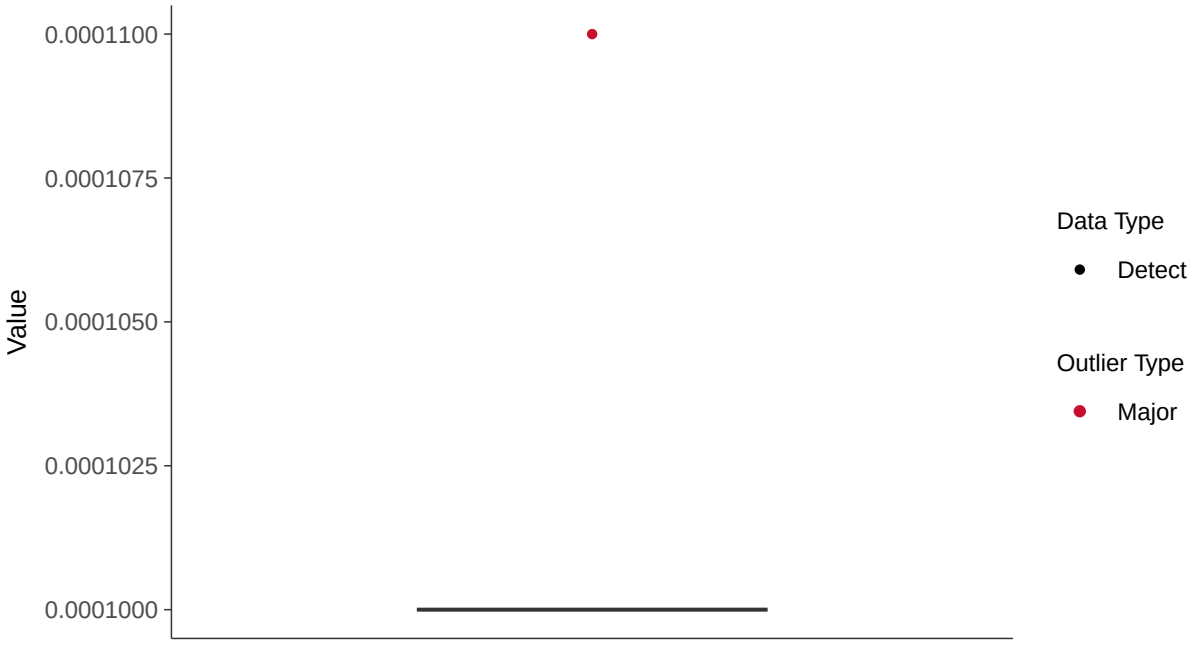
ID: 26_1_4_101





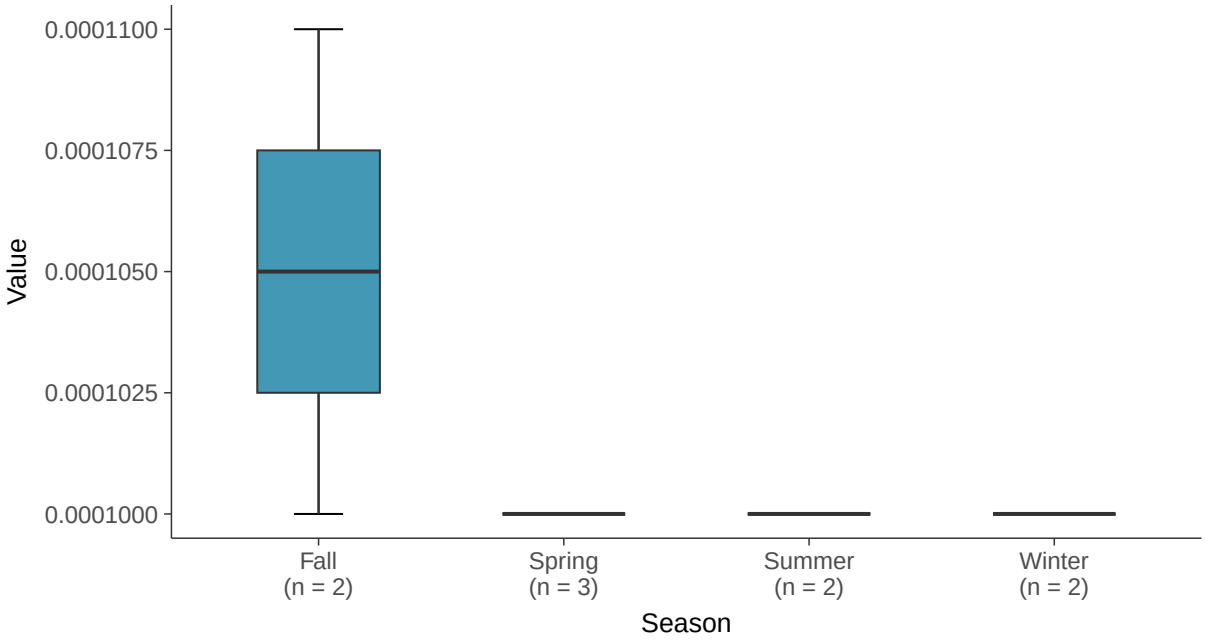
Boxplot

Antimony, MW-16 (mg/L)



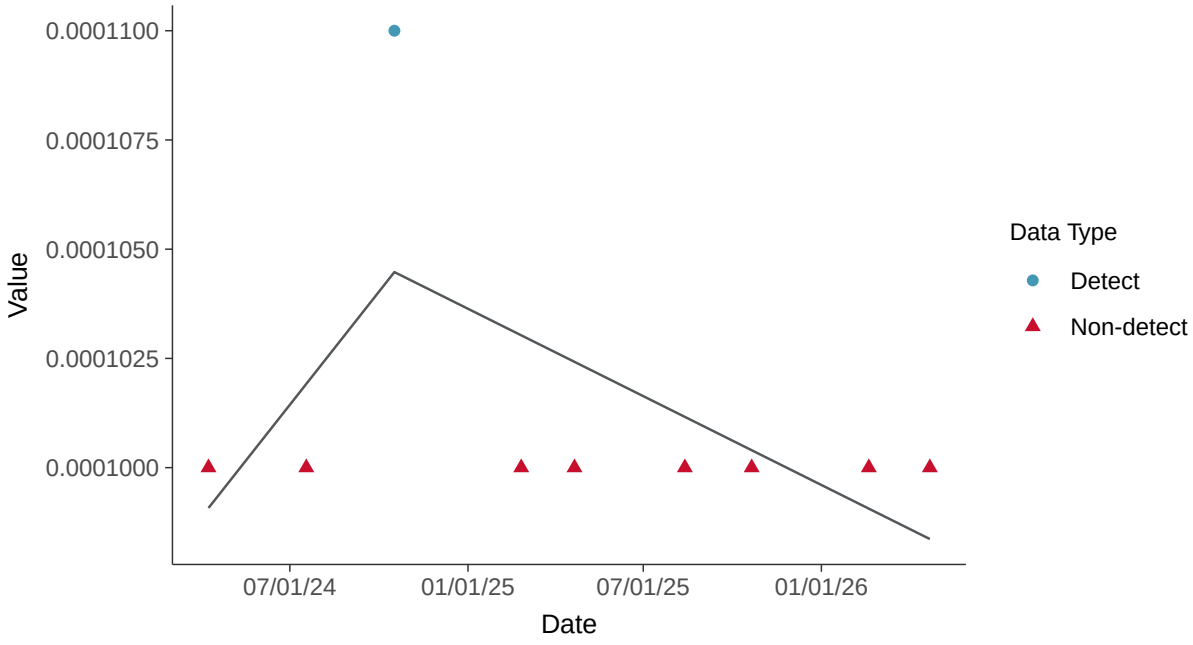
Boxplot by Season

Antimony, MW-16 (mg/L)



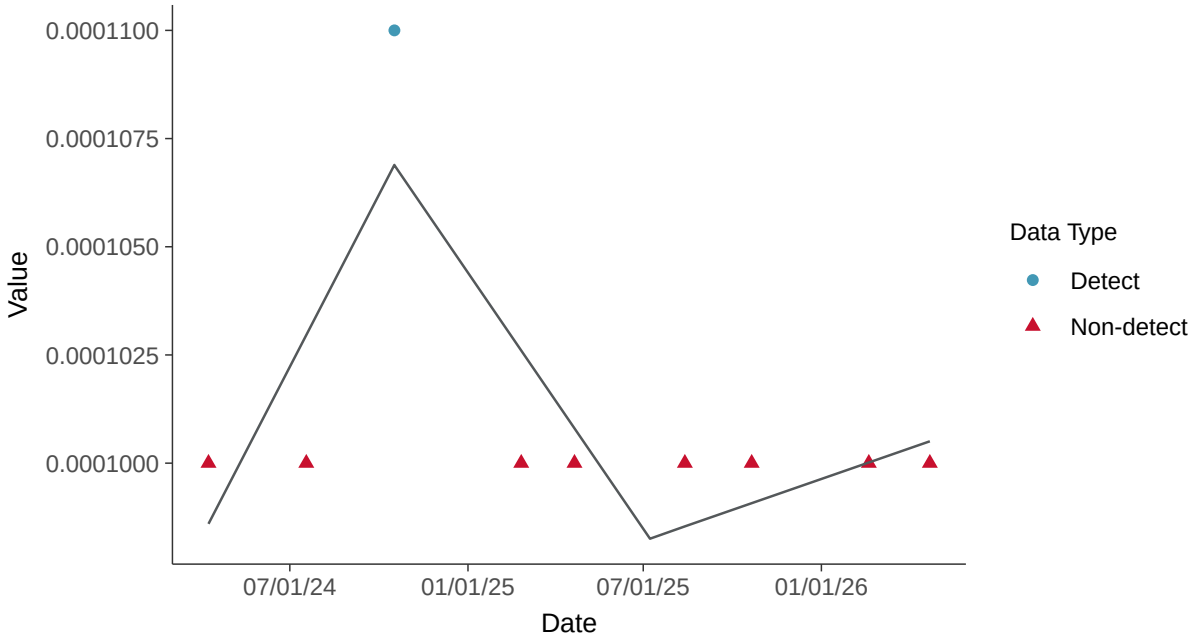
Trend Regression: Piecewise Linear-Linear

Antimony, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-16 (mg/L)

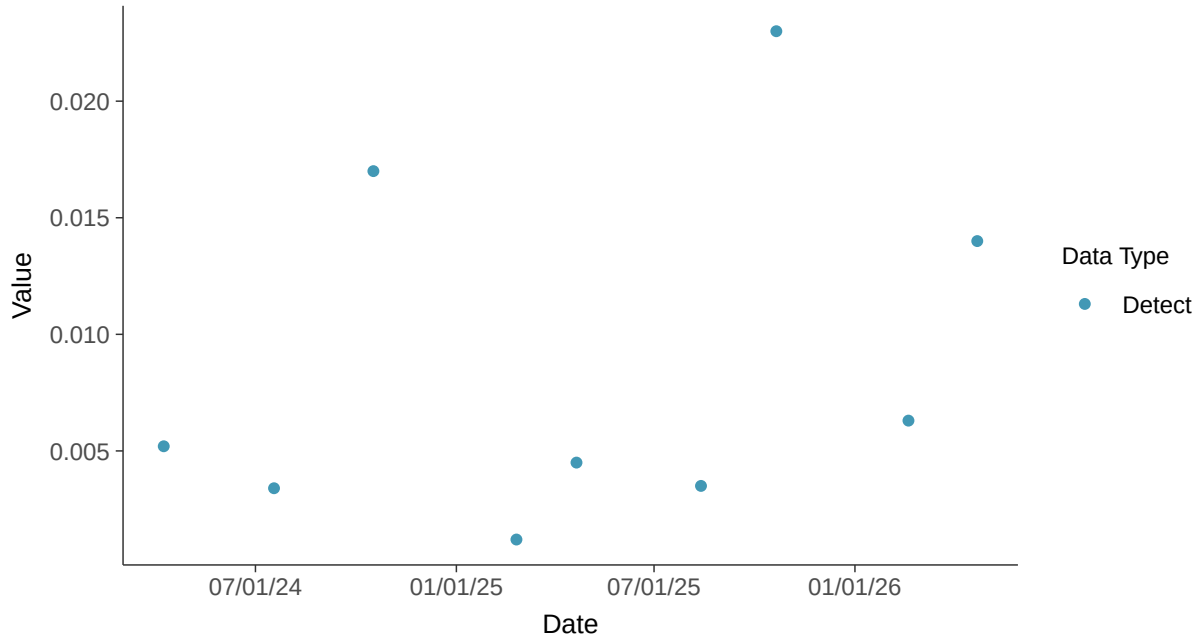


Appendix IV: Arsenic, MW-16

ID: 26_1_4_102

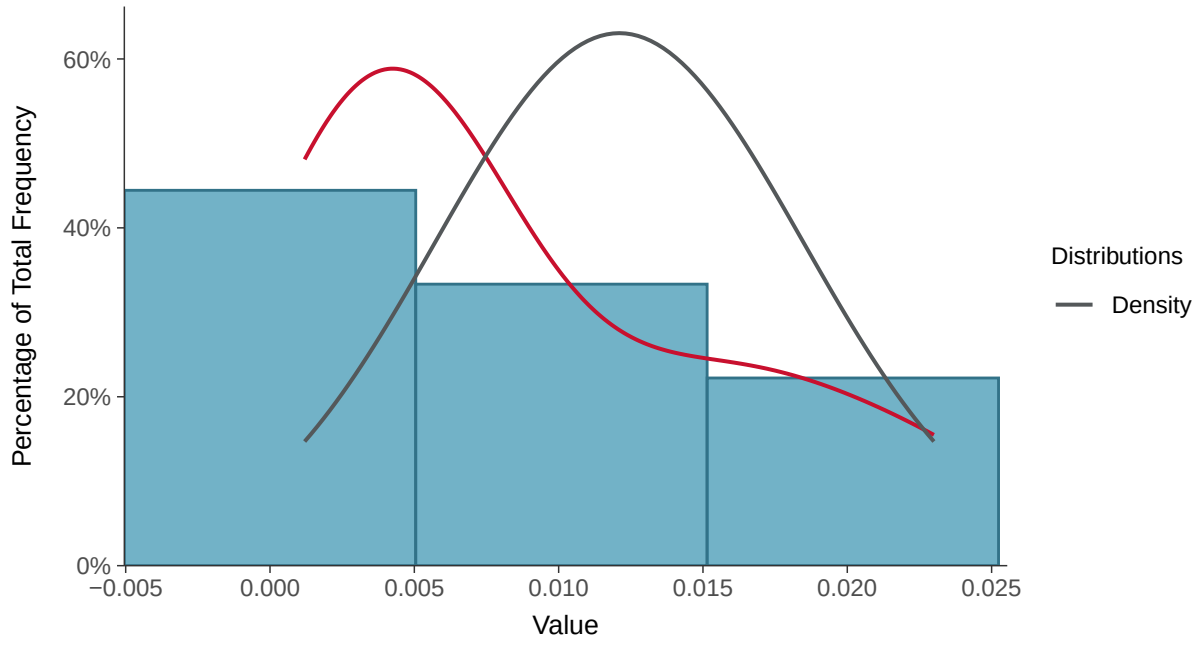
Scatter Plot

Arsenic, MW-16 (mg/L)



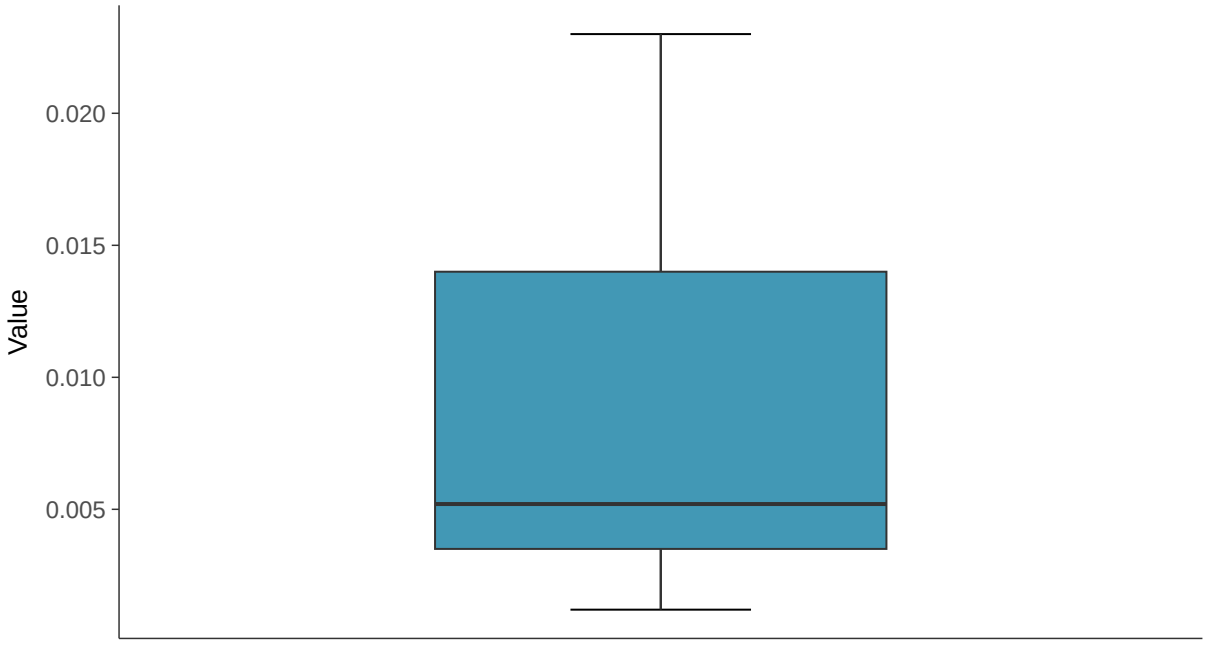
Histogram

Arsenic, MW-16 (mg/L)



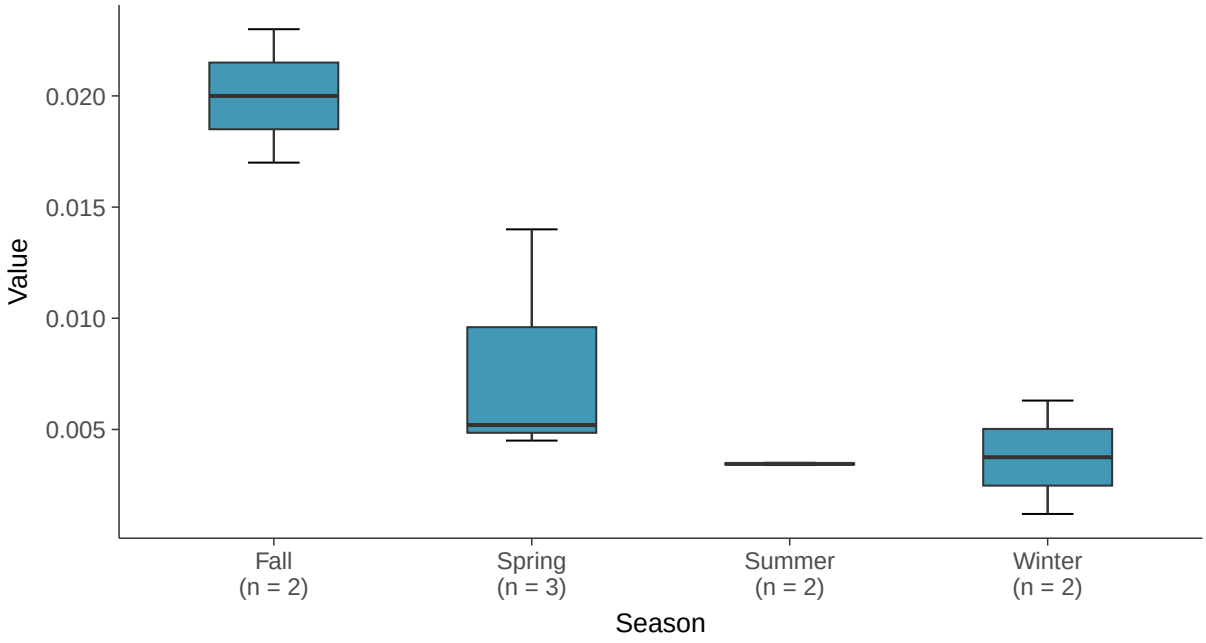
Boxplot

Arsenic, MW-16 (mg/L)



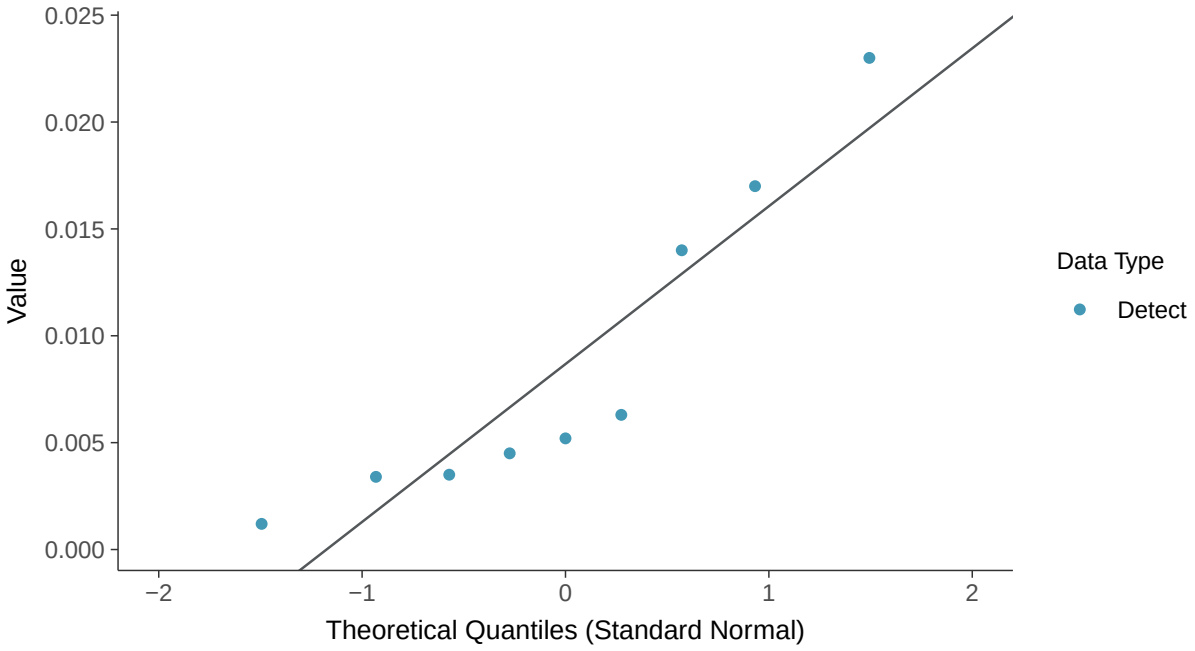
Boxplot by Season

Arsenic, MW-16 (mg/L)



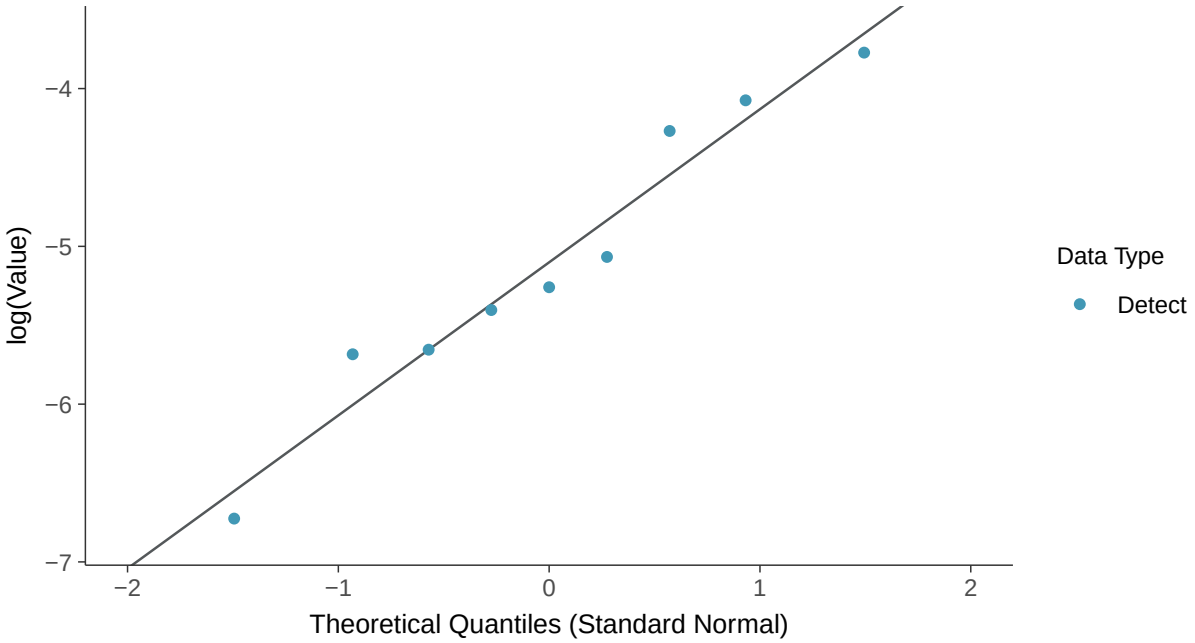
Normal Q-Q plot

Arsenic, MW-16 (mg/L)



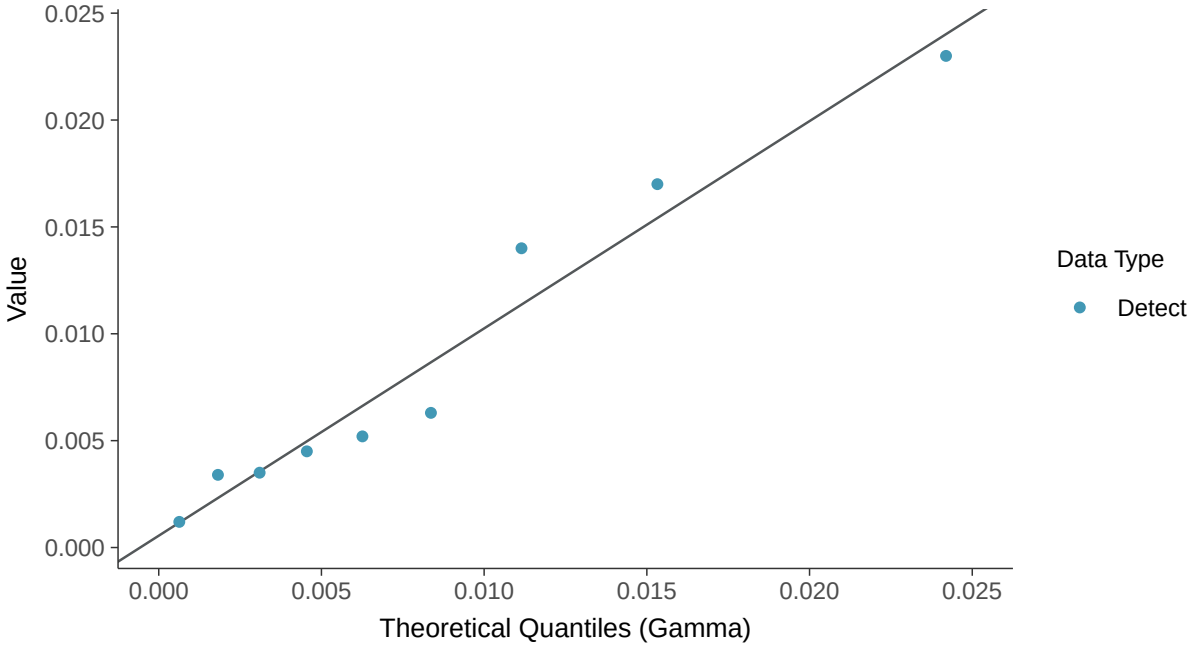
Lognormal Q-Q plot

Arsenic, MW-16 (mg/L)



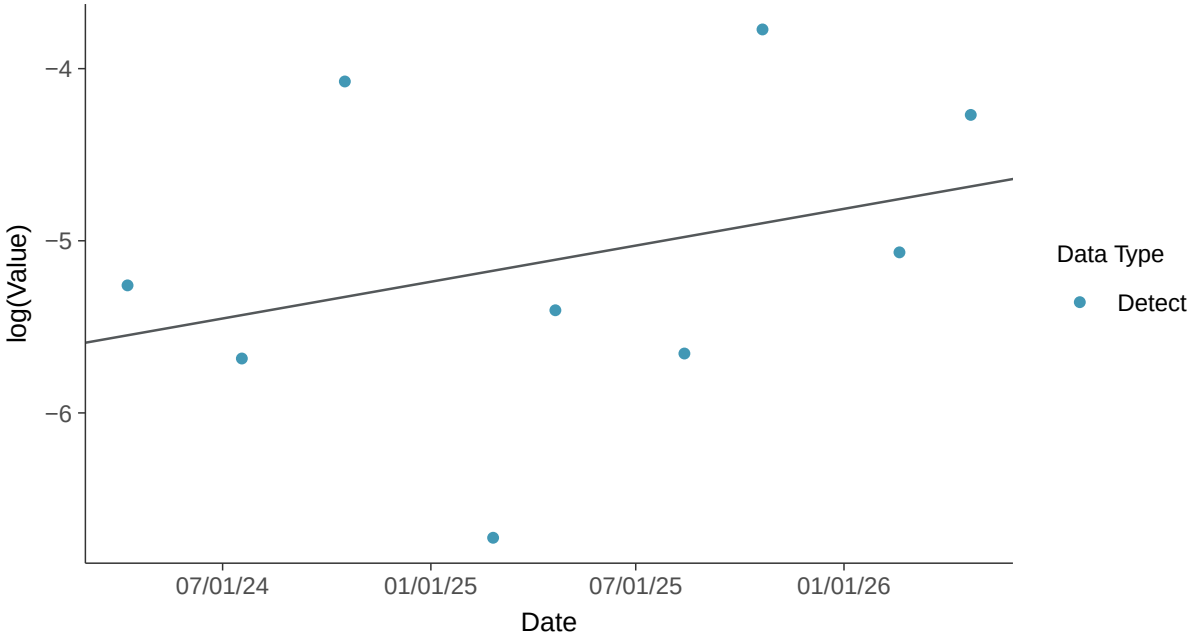
Gamma Q-Q plot

Arsenic, MW-16 (mg/L)



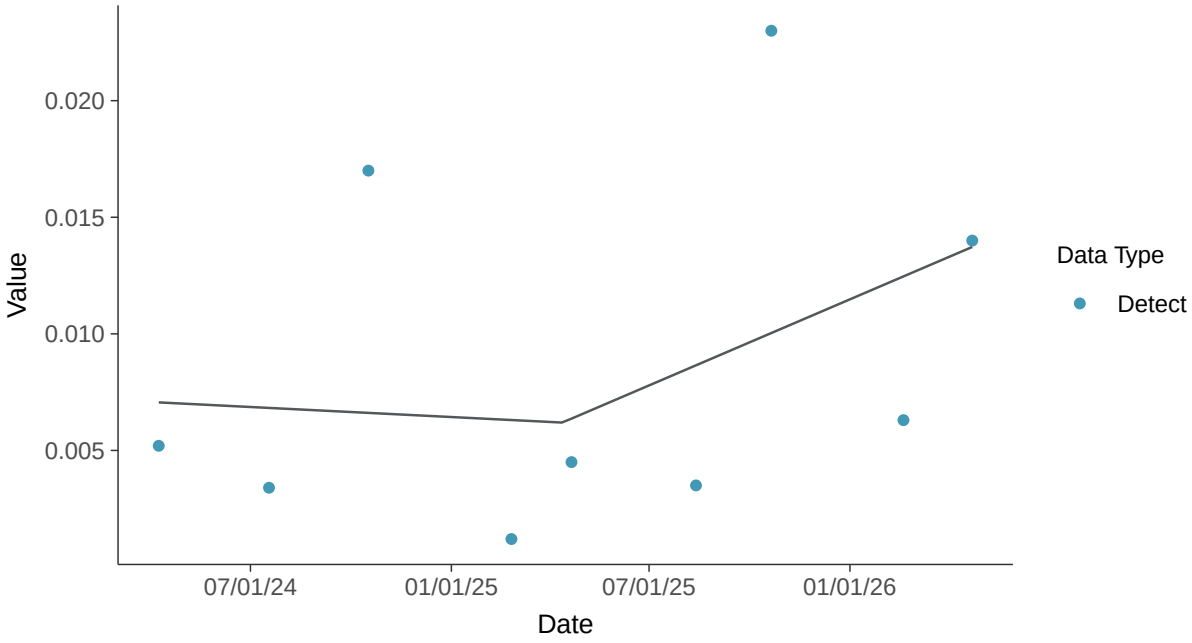
Trend Regression: Lognormal MLE

Arsenic, MW-16 (mg/L)



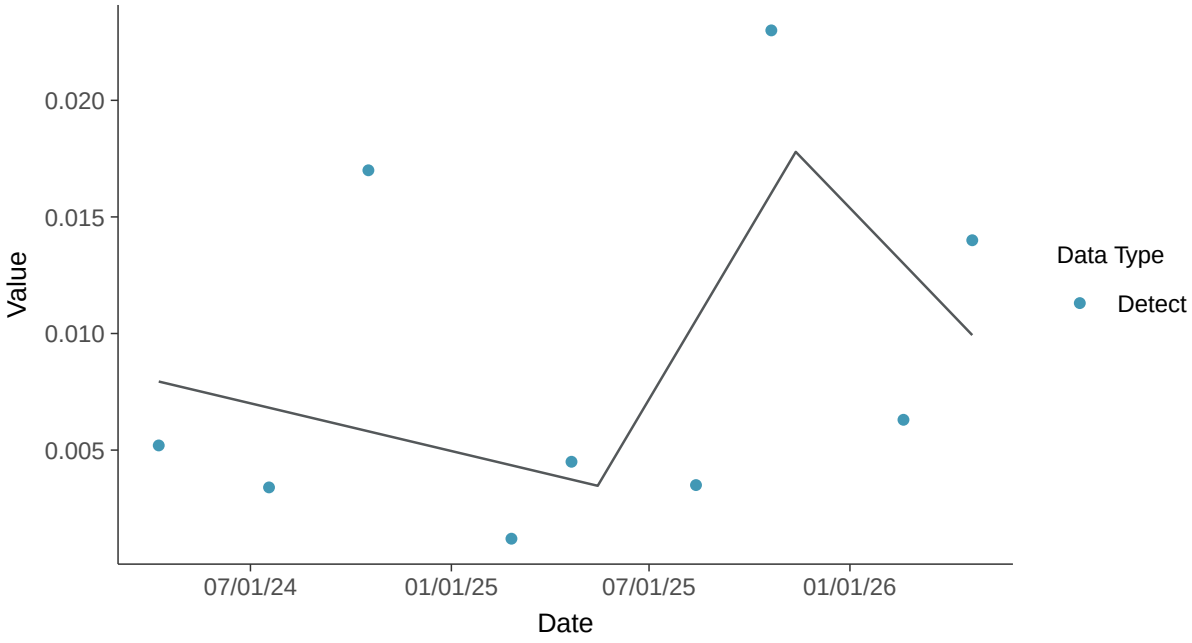
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-16 (mg/L)

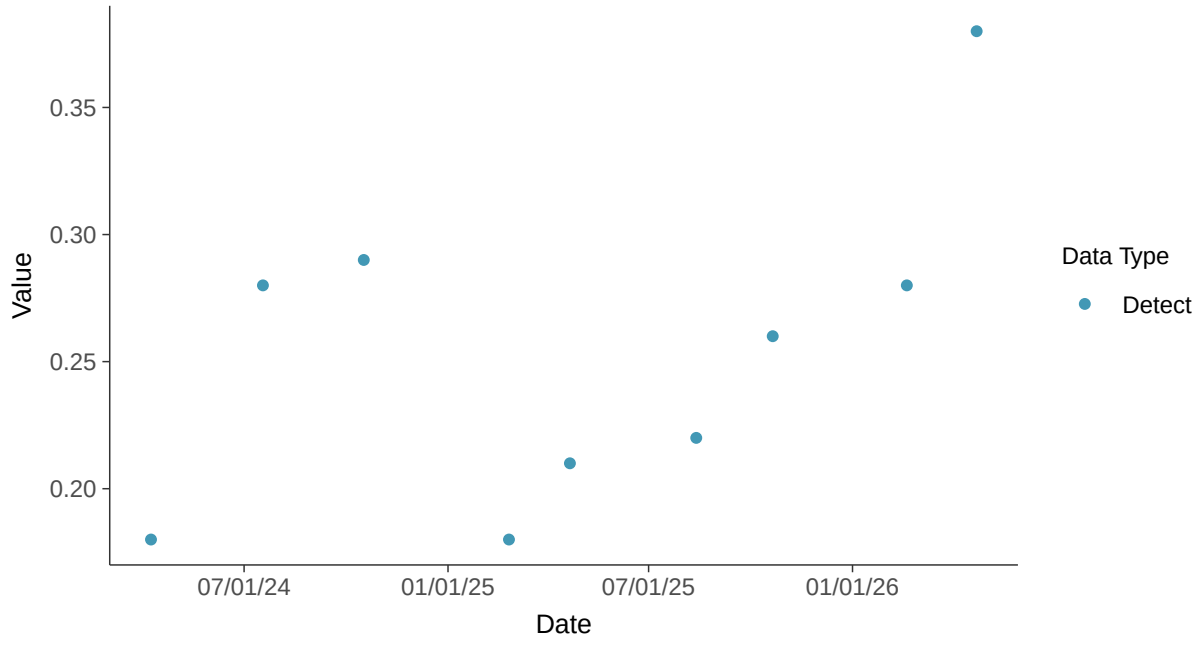


Appendix IV: Barium, MW-16

ID: 26_1_4_103

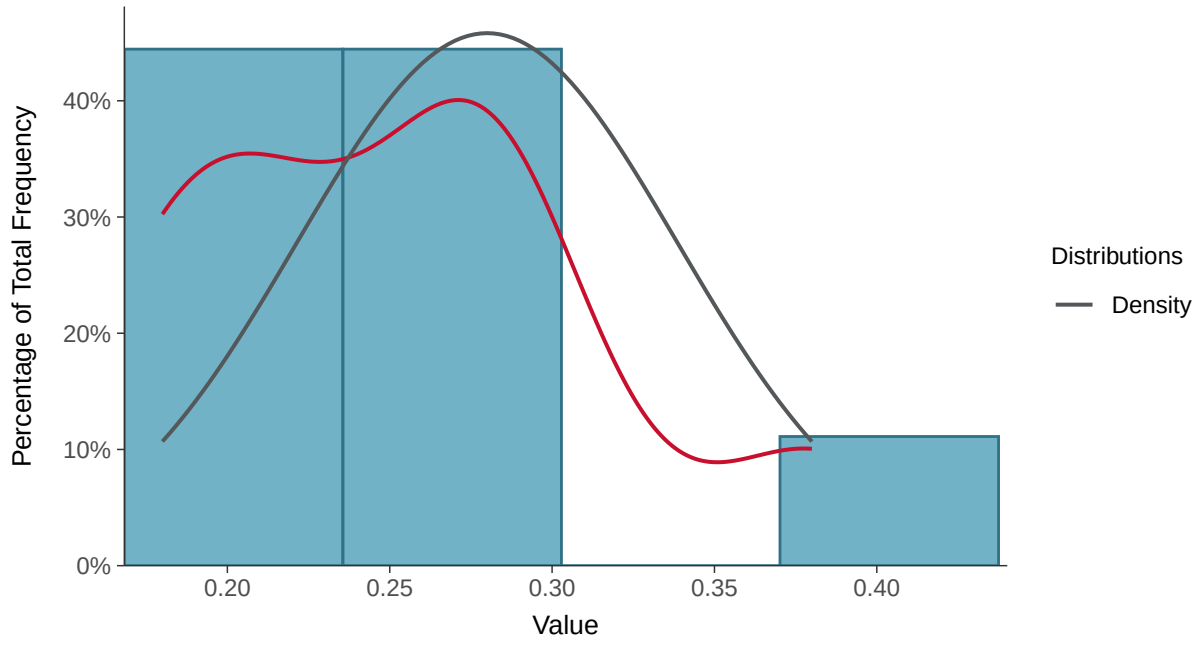
Scatter Plot

Barium, MW-16 (mg/L)



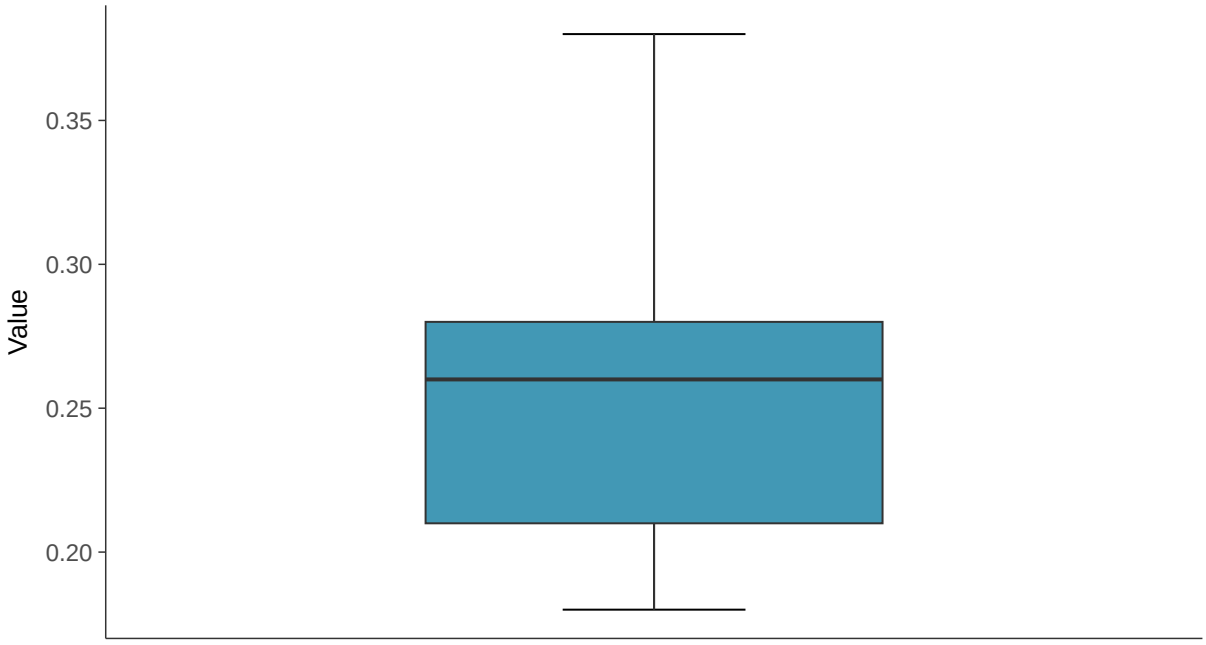
Histogram

Barium, MW-16 (mg/L)



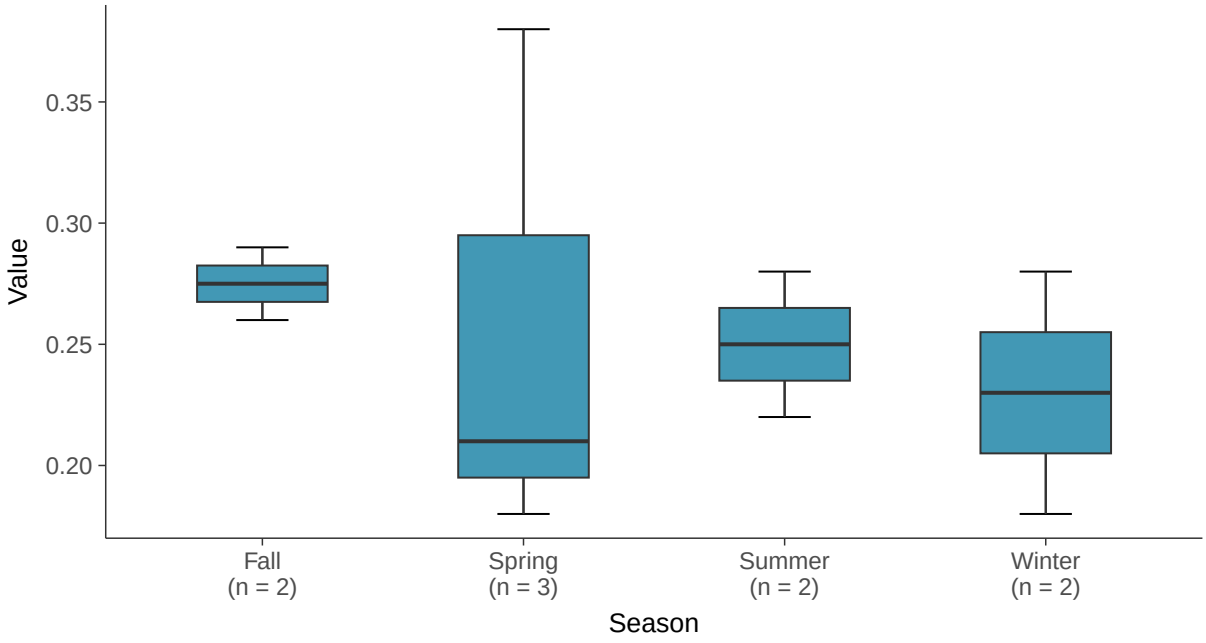
Boxplot

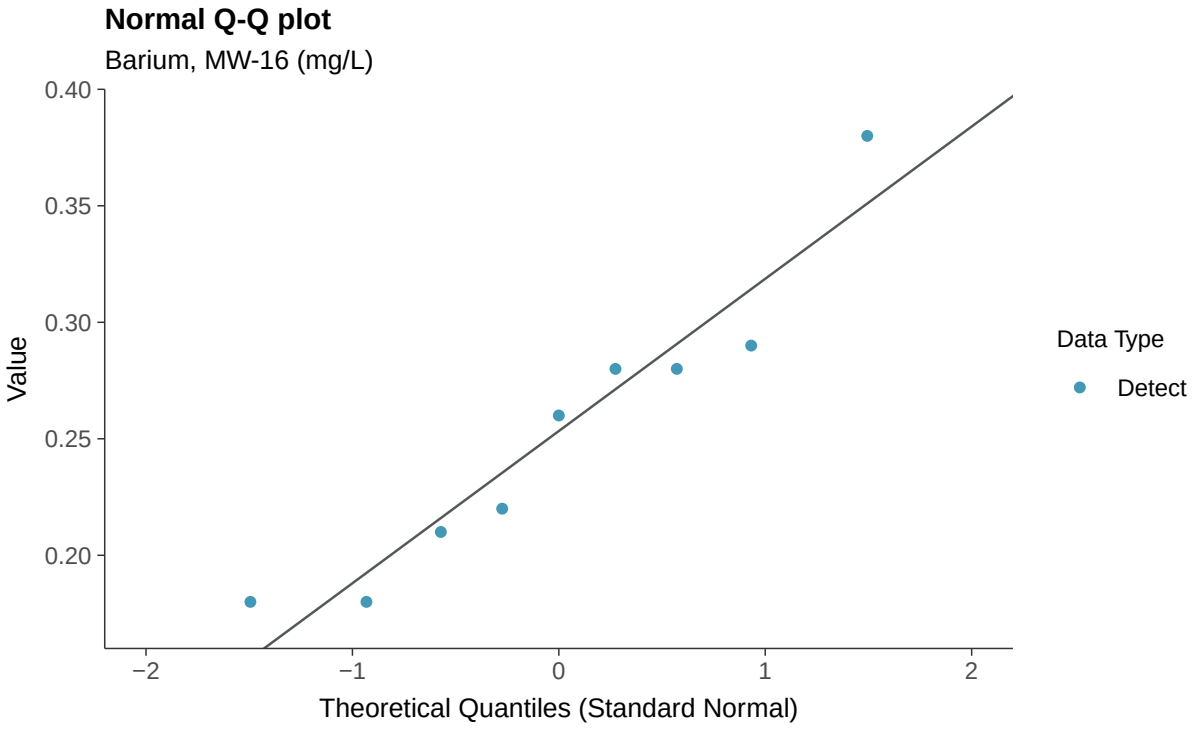
Barium, MW-16 (mg/L)

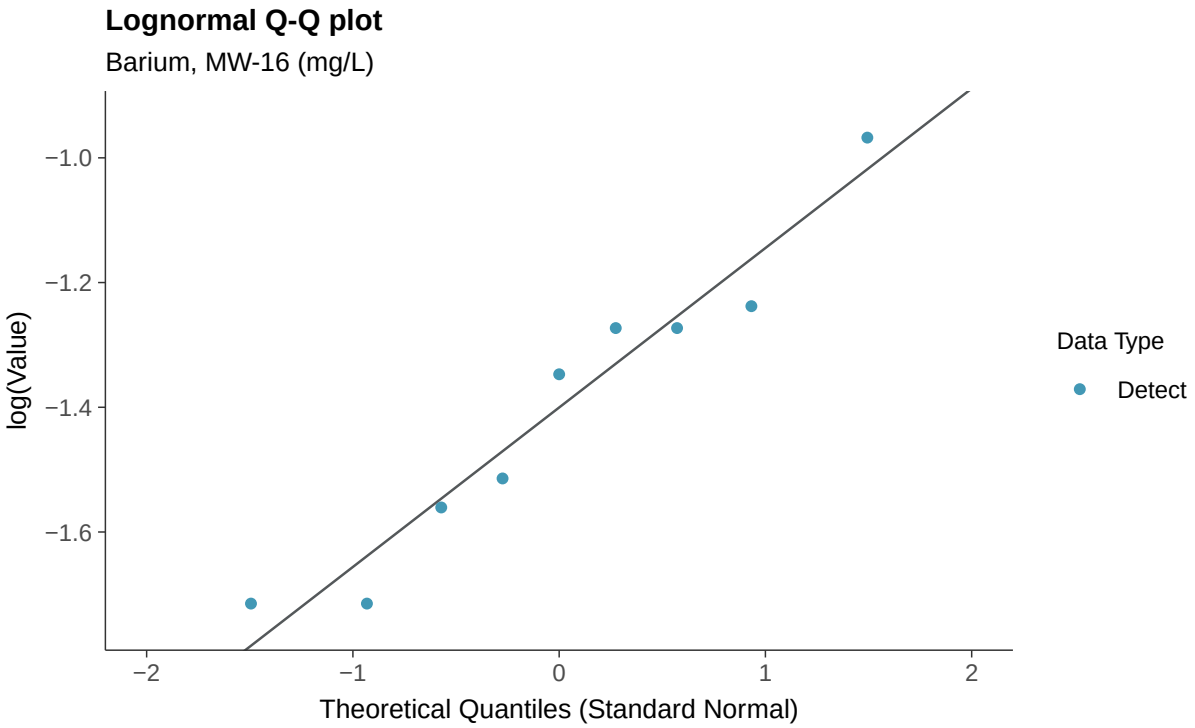


Boxplot by Season

Barium, MW-16 (mg/L)

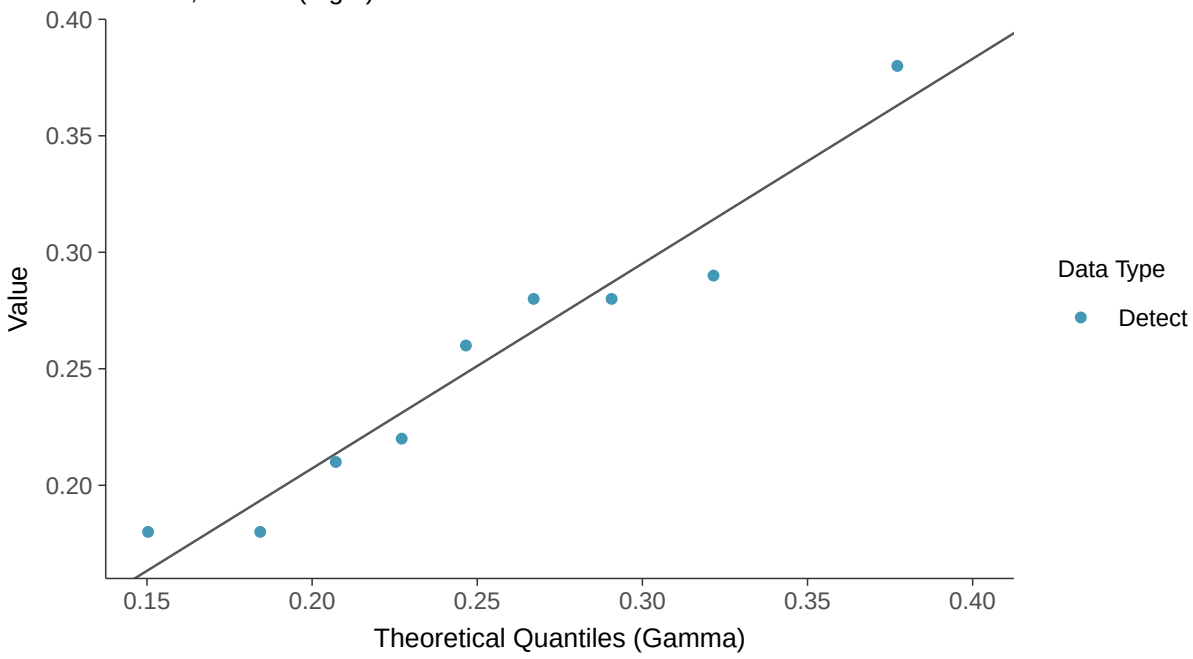



Normal Q-Q plot
Barium, MW-16 (mg/L)
Value
0.40
0.35
0.30
0.25
0.20
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Barium, MW-16 (mg/L)
log(Value)
−1.0
−1.2
−1.4
−1.6
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

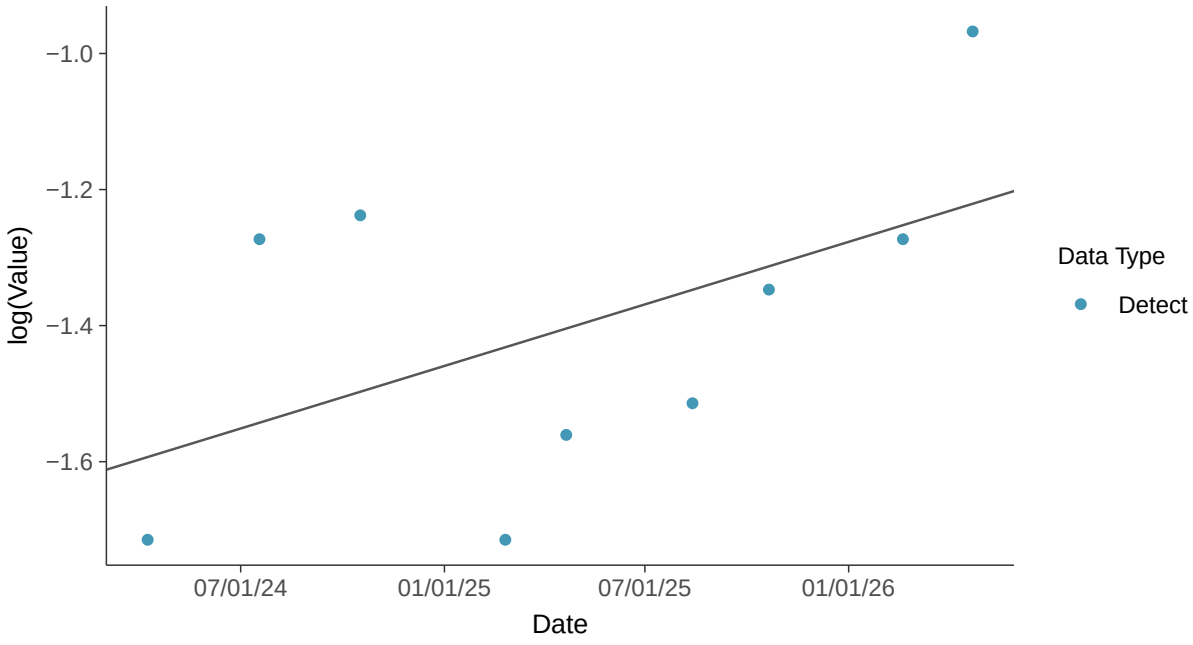
Gamma Q-Q plot

Barium, MW-16 (mg/L)



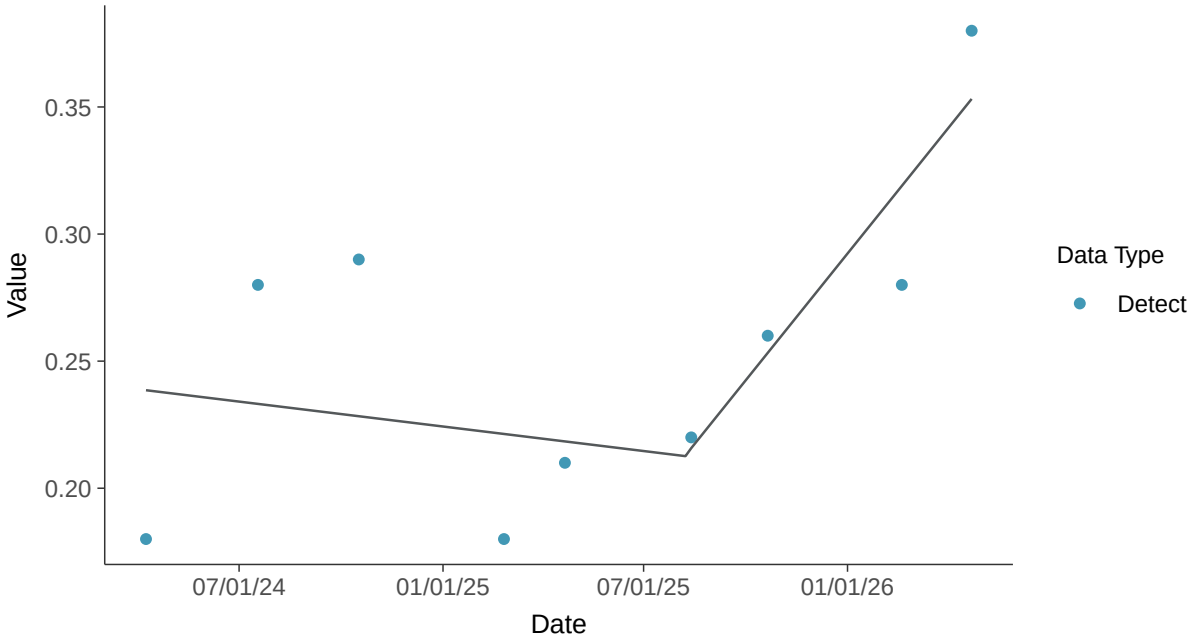
Trend Regression: Lognormal MLE

Barium, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear

Barium, MW-16 (mg/L)

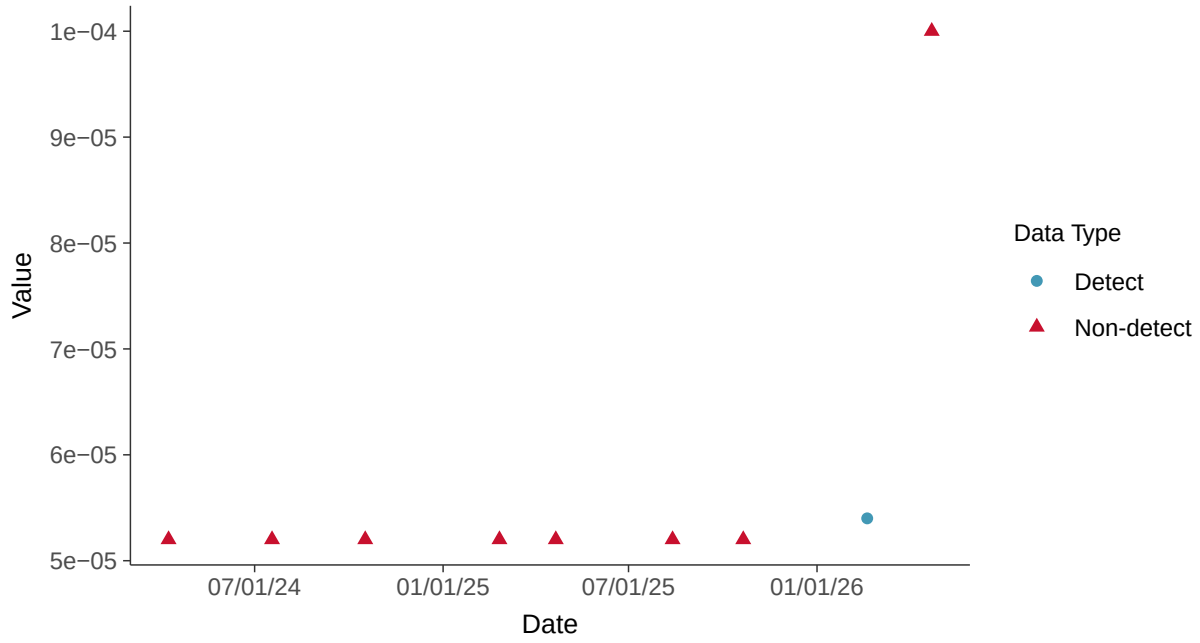


Appendix IV: Beryllium, MW-16

ID: 26_1_4_104

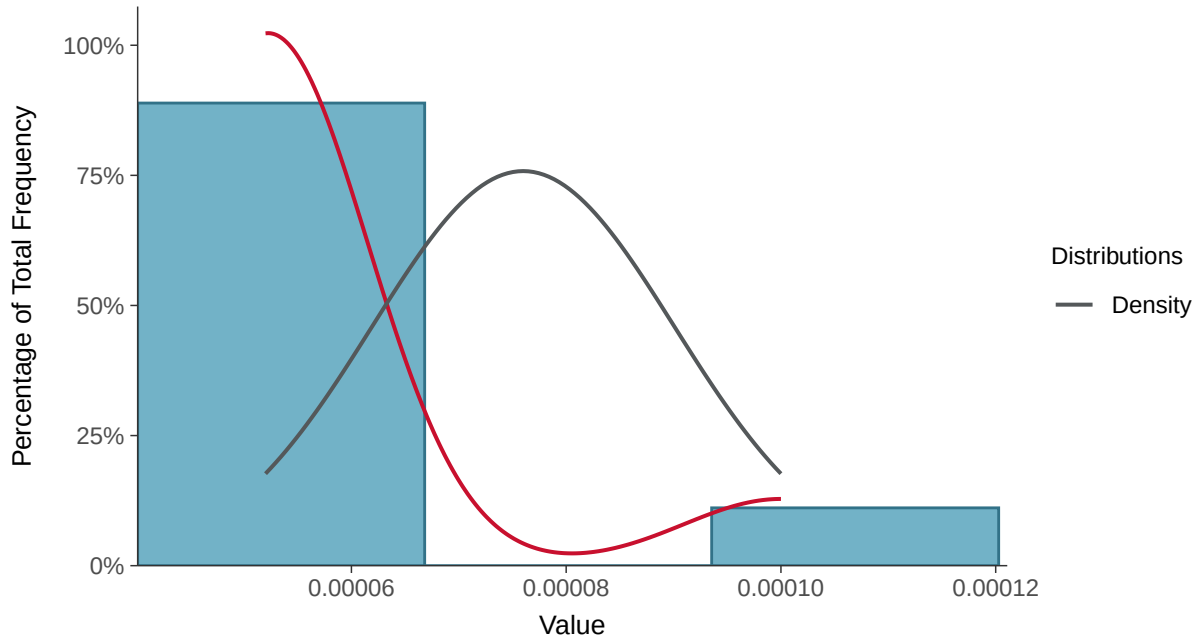
Scatter Plot

Beryllium, MW-16 (mg/L)



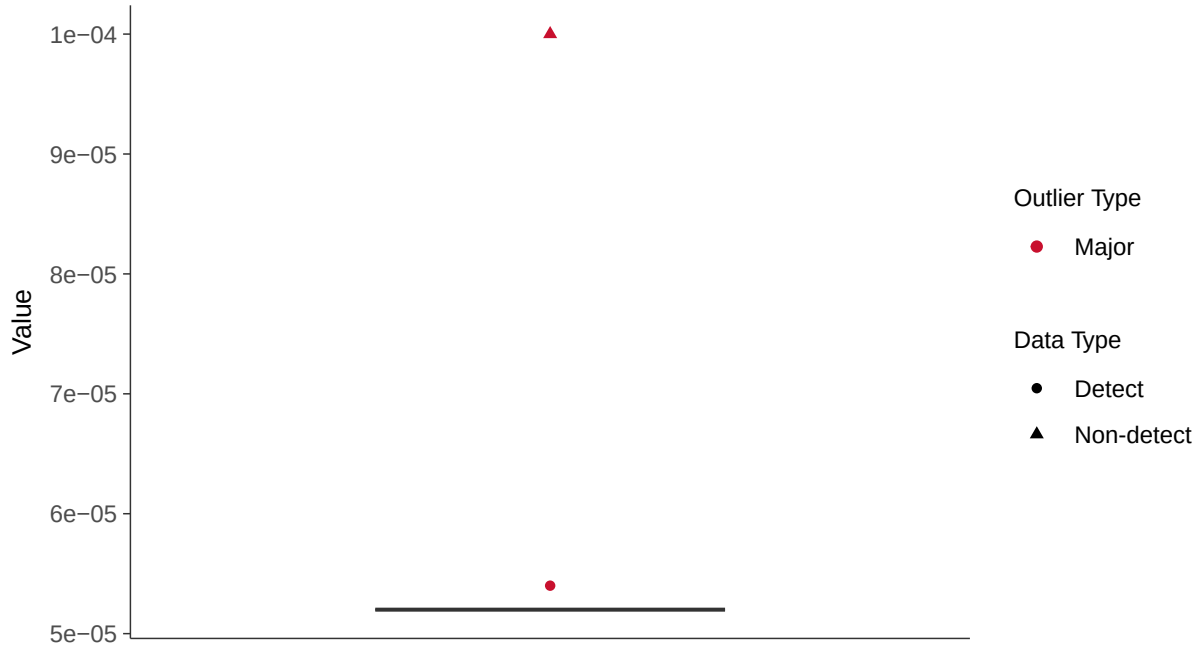
Histogram

Beryllium, MW-16 (mg/L)



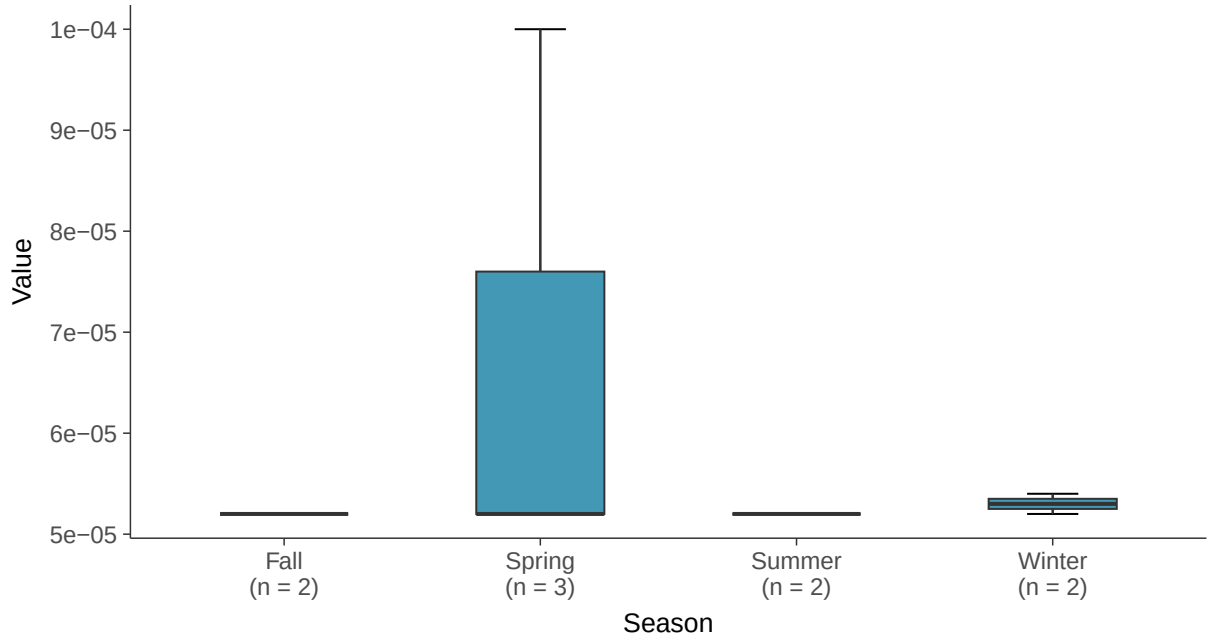
Boxplot

Beryllium, MW-16 (mg/L)



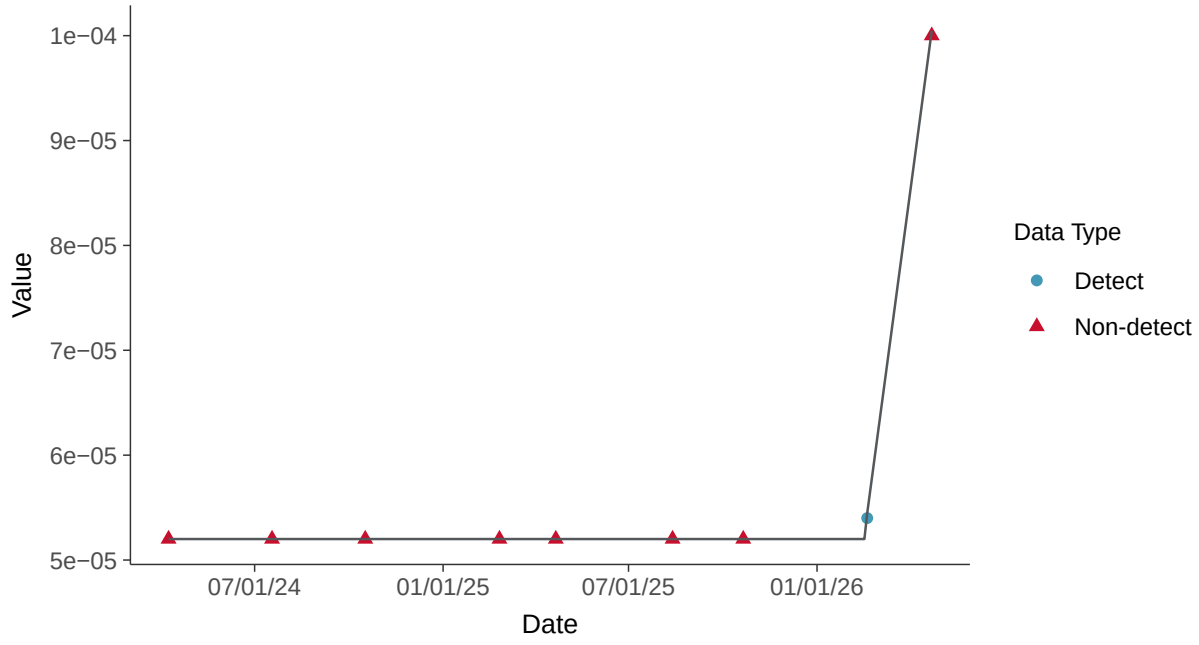
Boxplot by Season

Beryllium, MW-16 (mg/L)



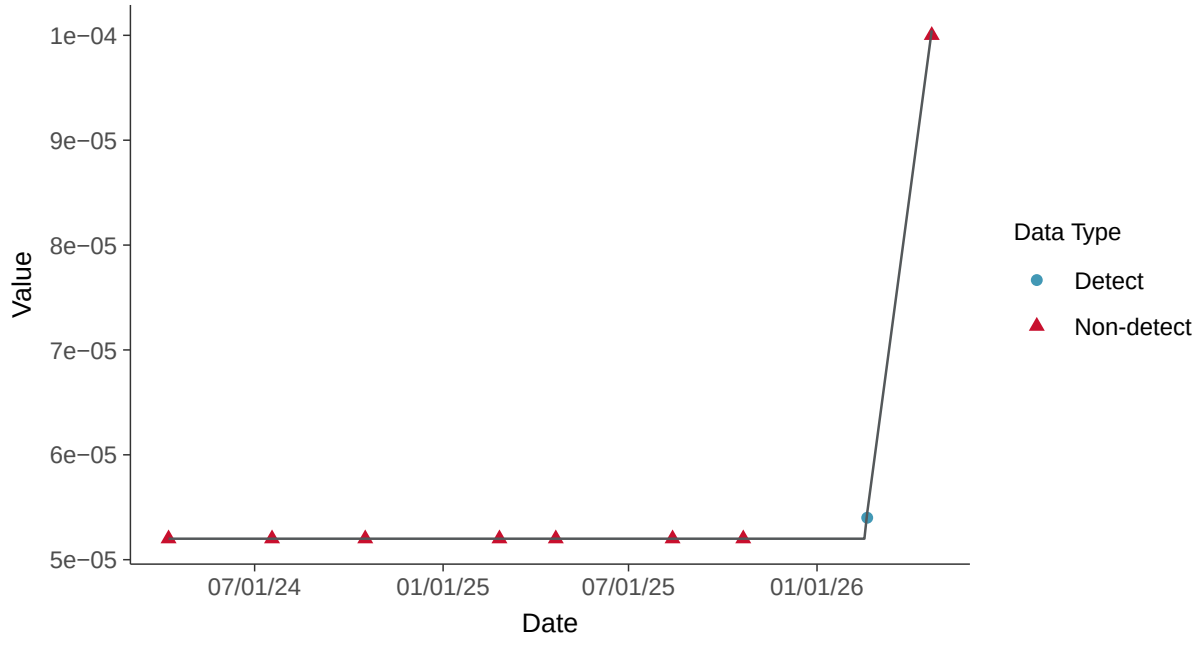
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-16 (mg/L)



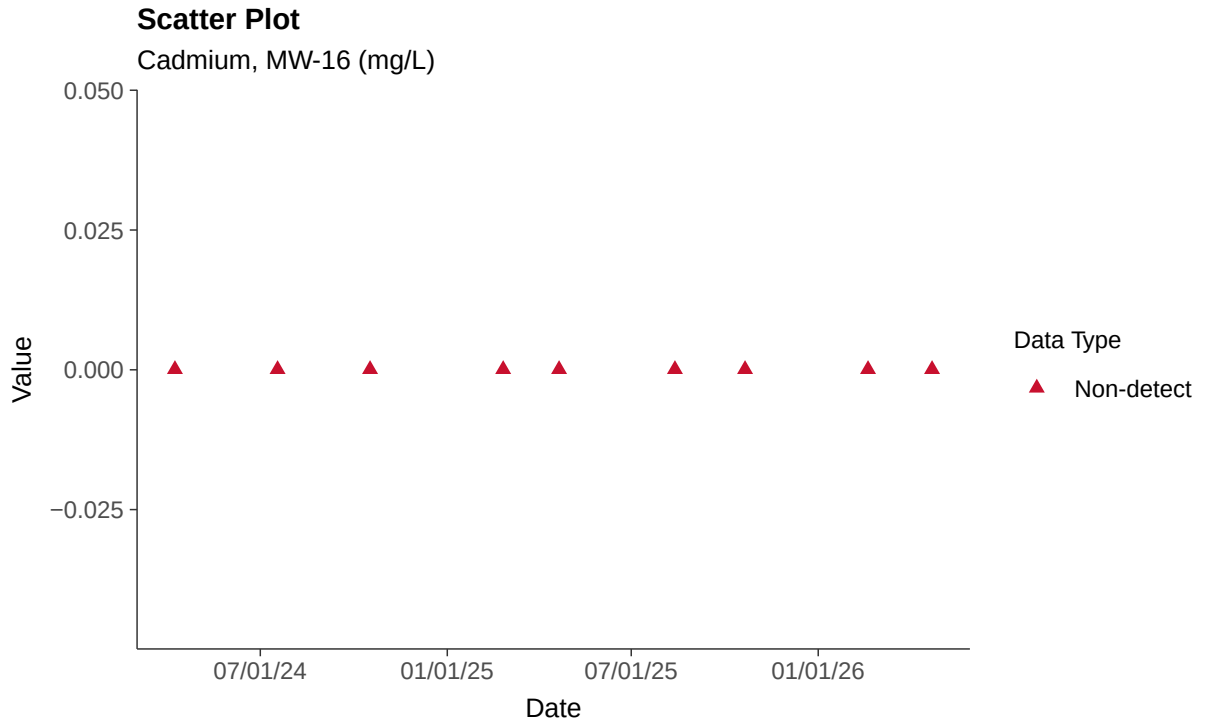
Trend Regression: Piecewise Linear-Linear-Linear

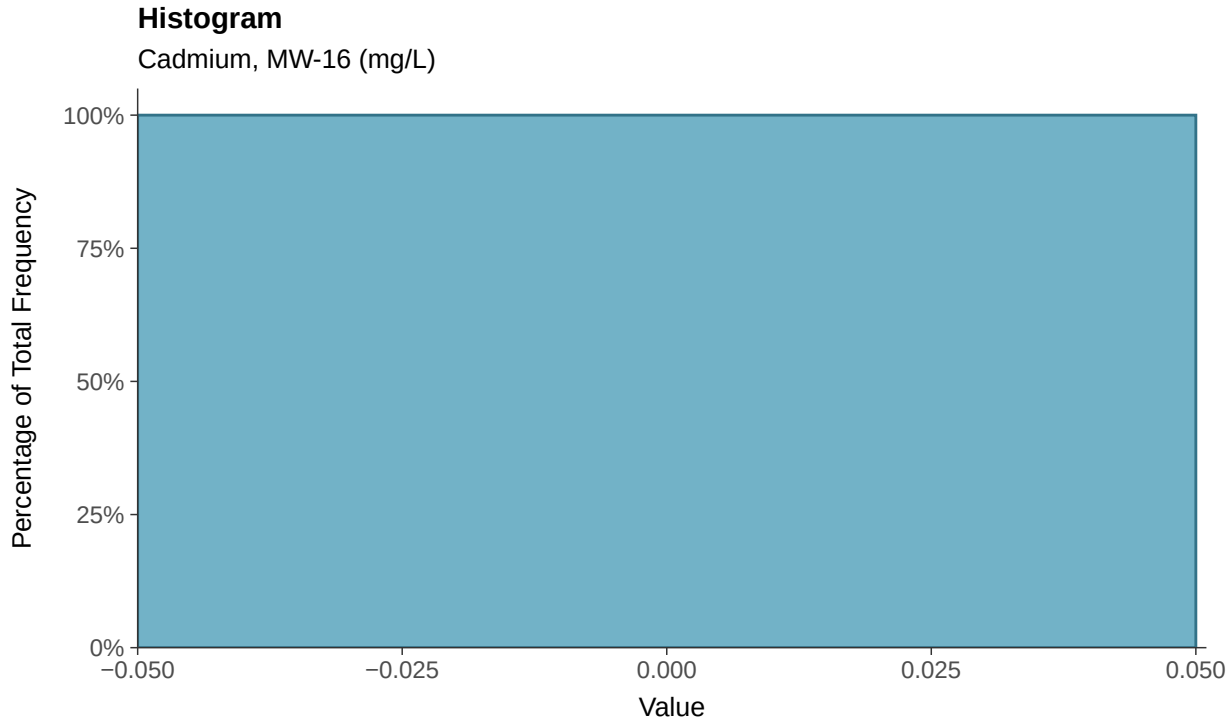
Beryllium, MW-16 (mg/L)



Appendix IV: Cadmium, MW-16

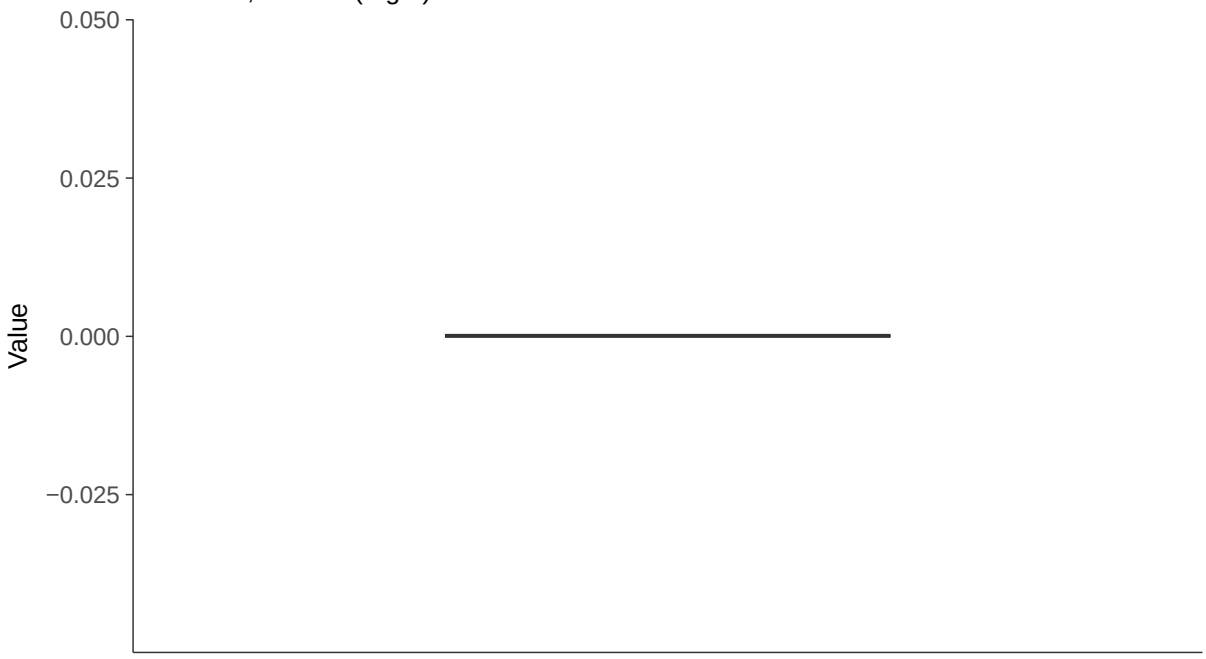
ID: 26_1_4_106





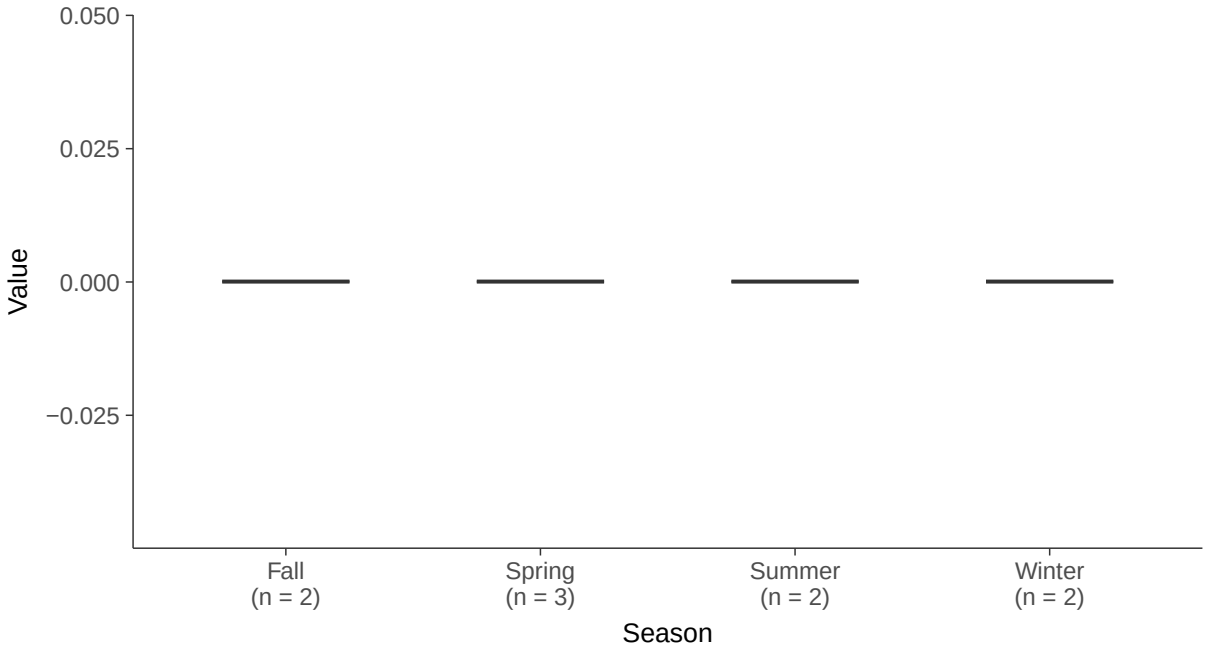
Boxplot

Cadmium, MW-16 (mg/L)



Boxplot by Season

Cadmium, MW-16 (mg/L)

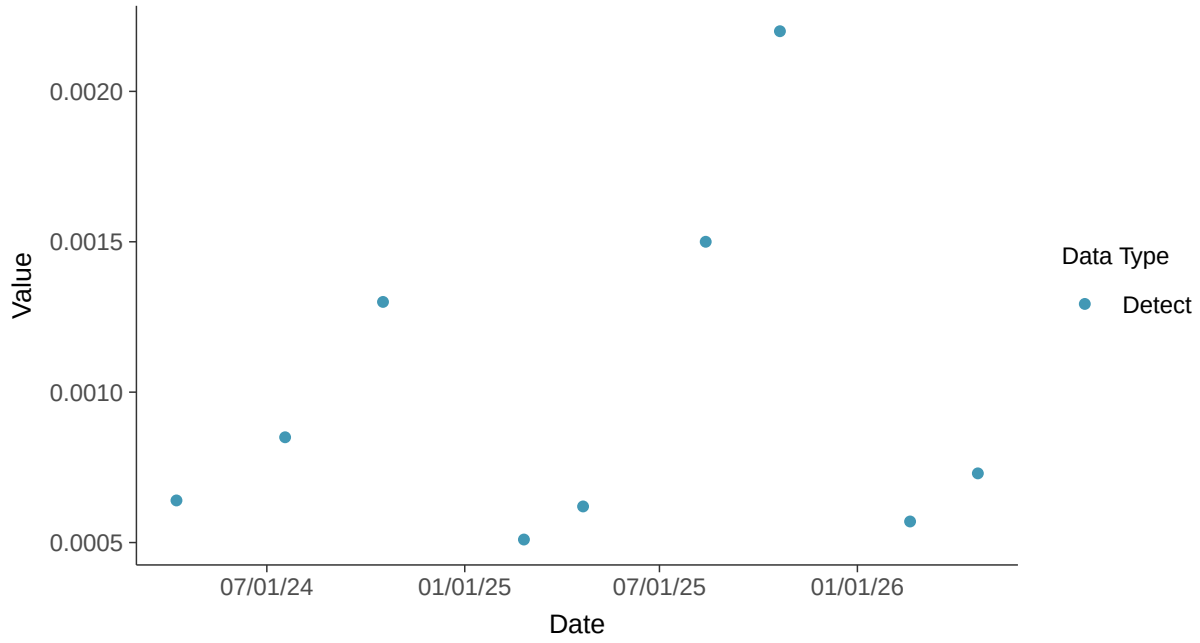


Appendix IV: Chromium, Total, MW-16

ID: 26_1_4_109

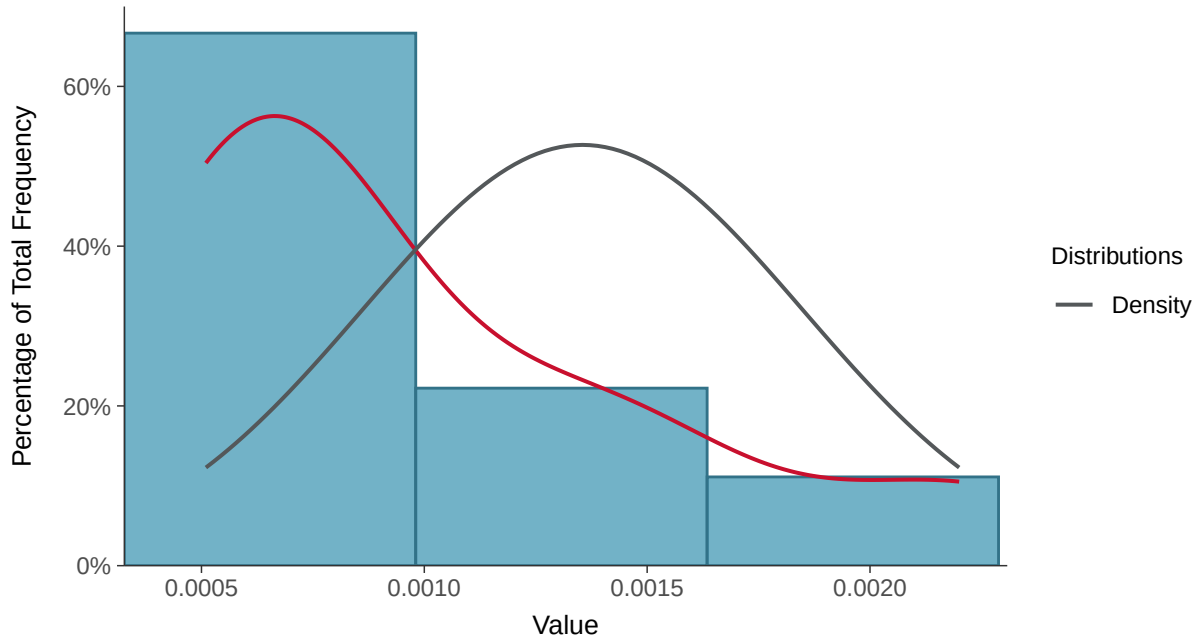
Scatter Plot

Chromium, Total, MW-16 (mg/L)



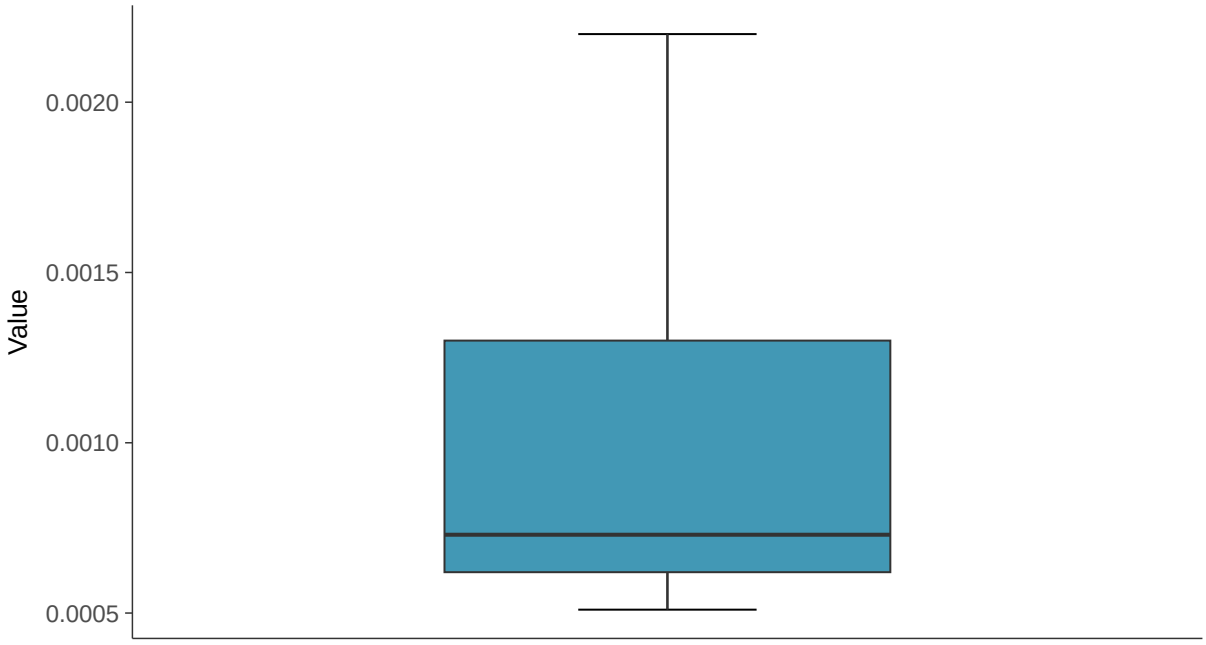
Histogram

Chromium, Total, MW-16 (mg/L)



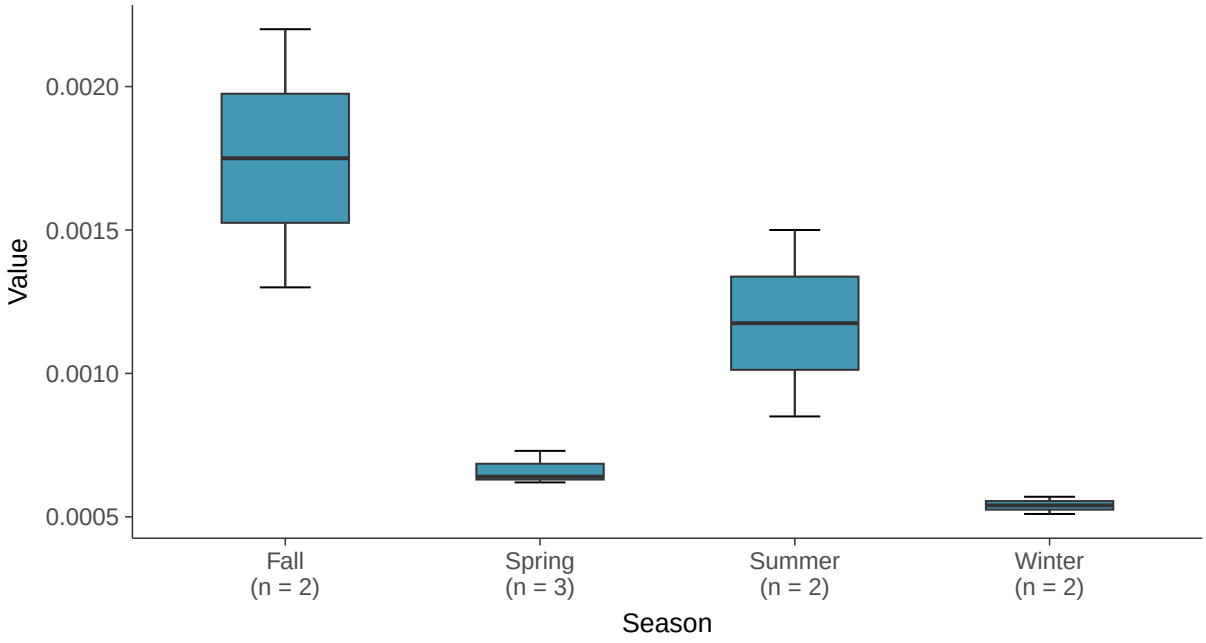
Boxplot

Chromium, Total, MW-16 (mg/L)



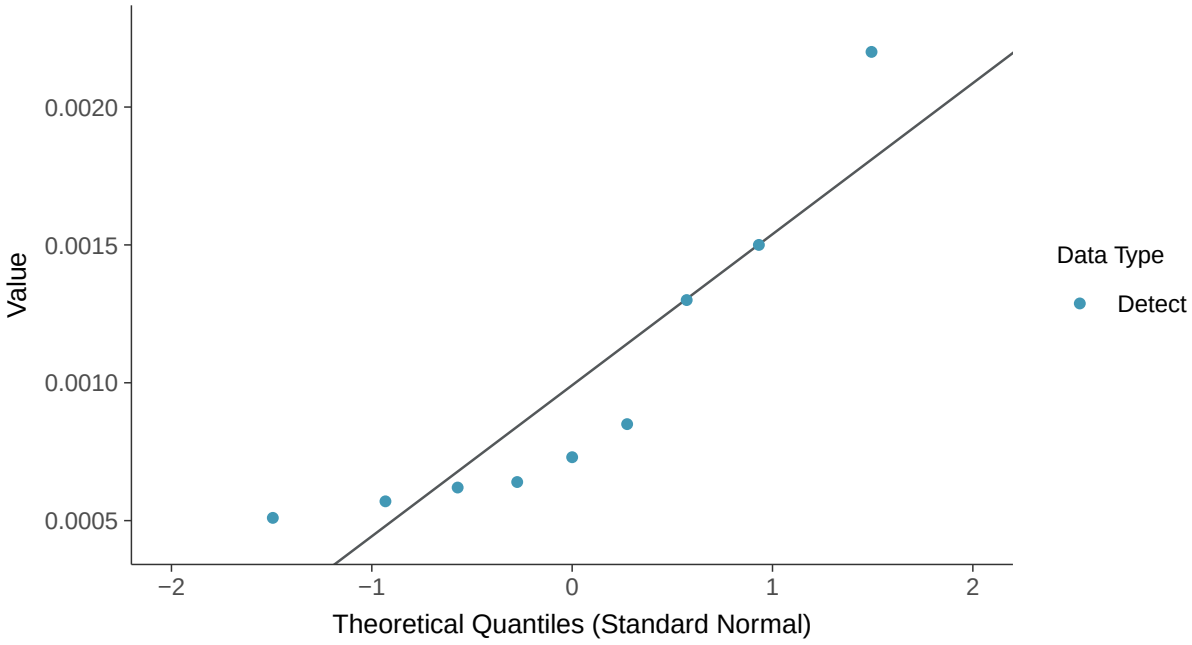
Boxplot by Season

Chromium, Total, MW-16 (mg/L)



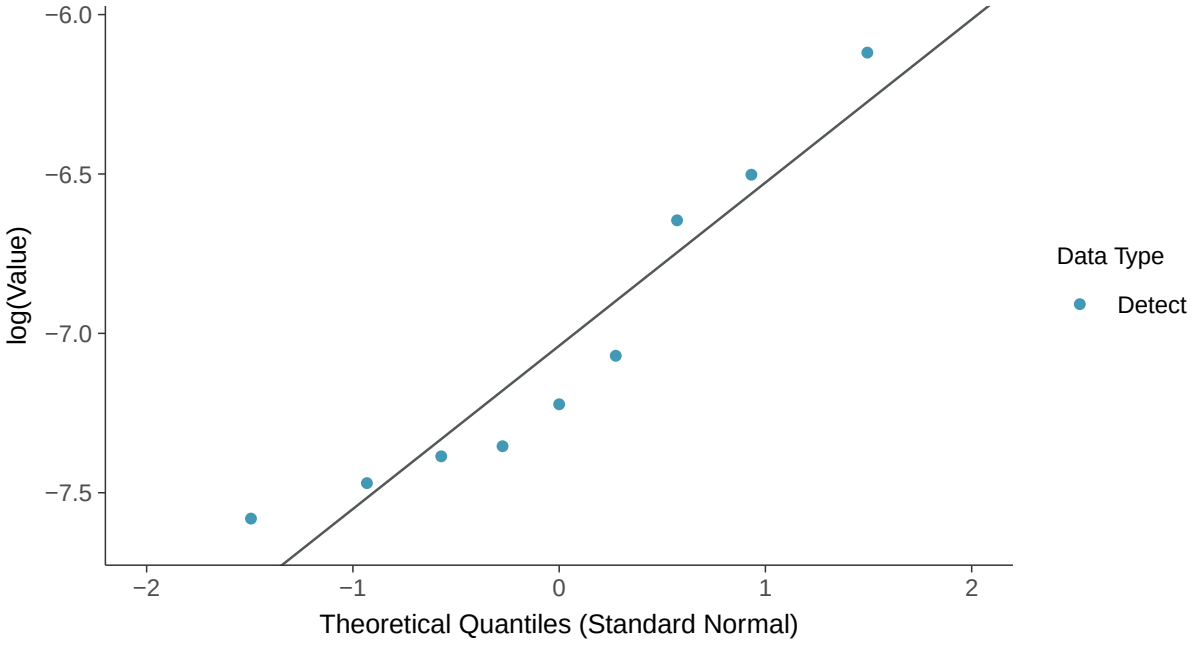
Normal Q-Q plot

Chromium, Total, MW-16 (mg/L)



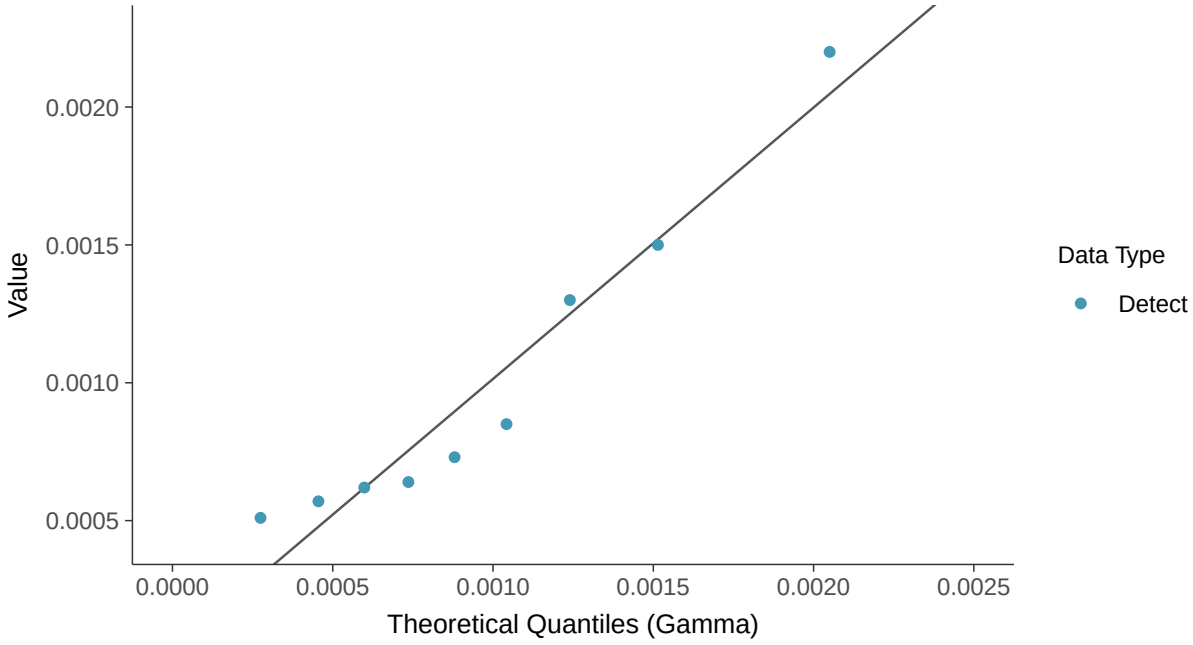
Lognormal Q-Q plot

Chromium, Total, MW-16 (mg/L)



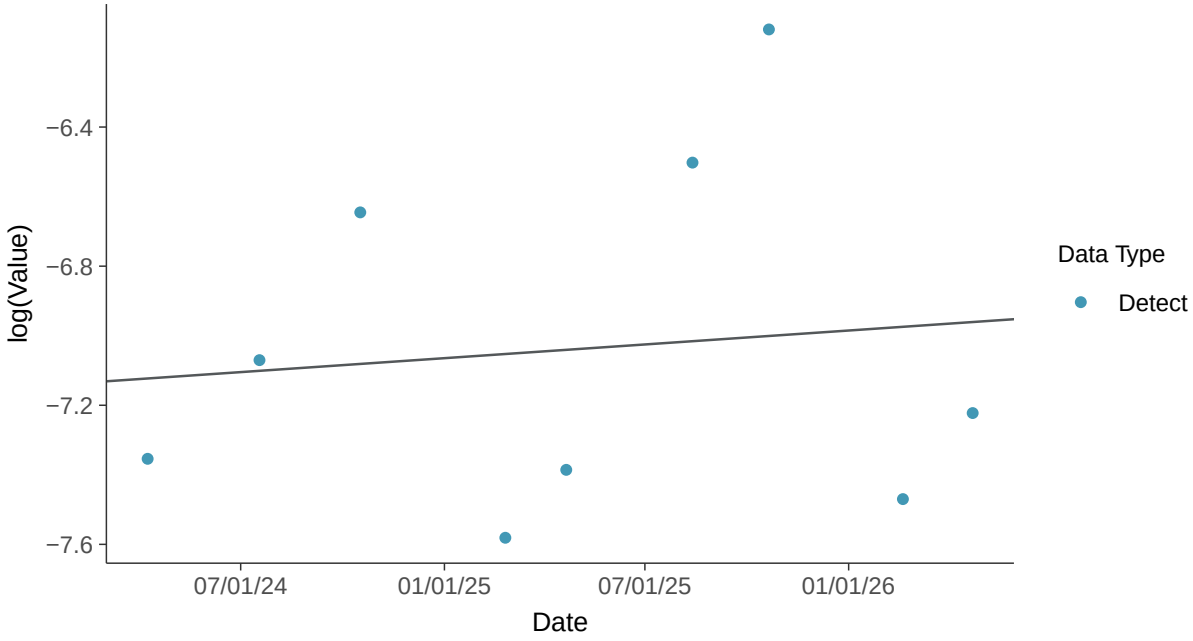
Gamma Q-Q plot

Chromium, Total, MW-16 (mg/L)



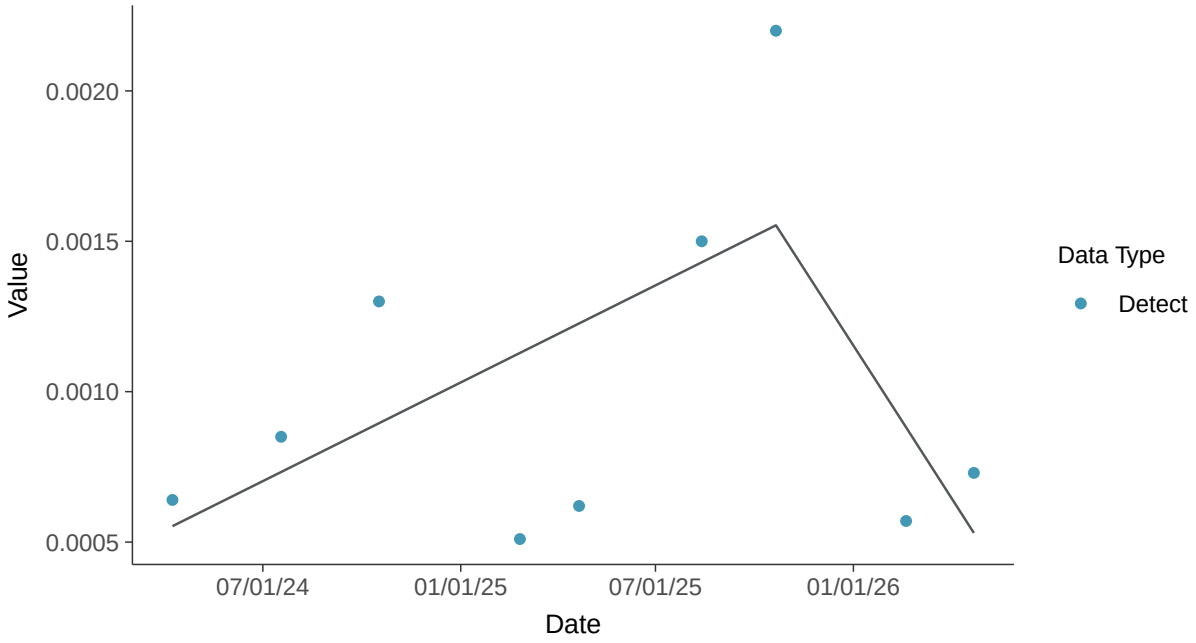
Trend Regression: Lognormal MLE

Chromium, Total, MW-16 (mg/L)



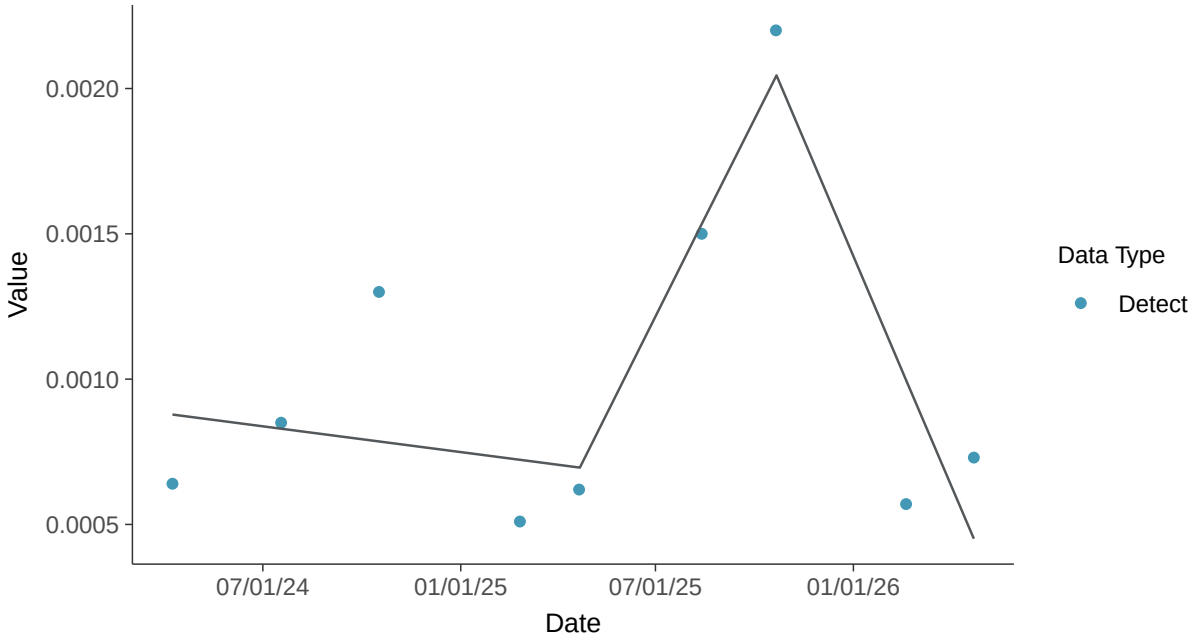
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-16 (mg/L)

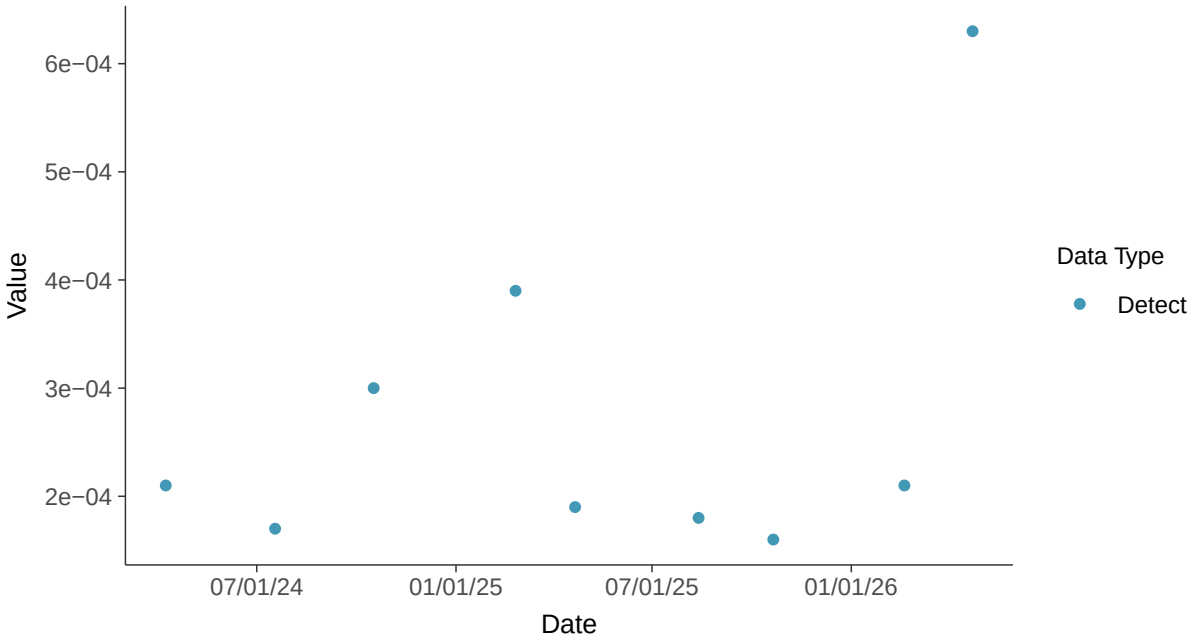


Appendix IV: Cobalt, MW-16

ID: 26_1_4_110

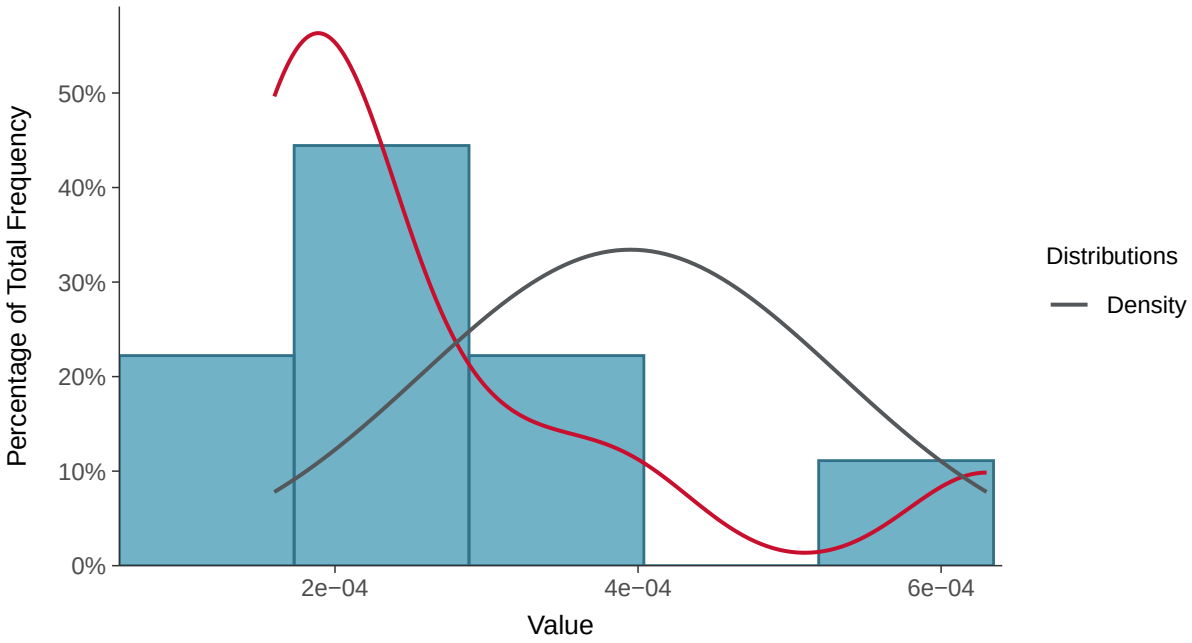
Scatter Plot

Cobalt, MW-16 (mg/L)



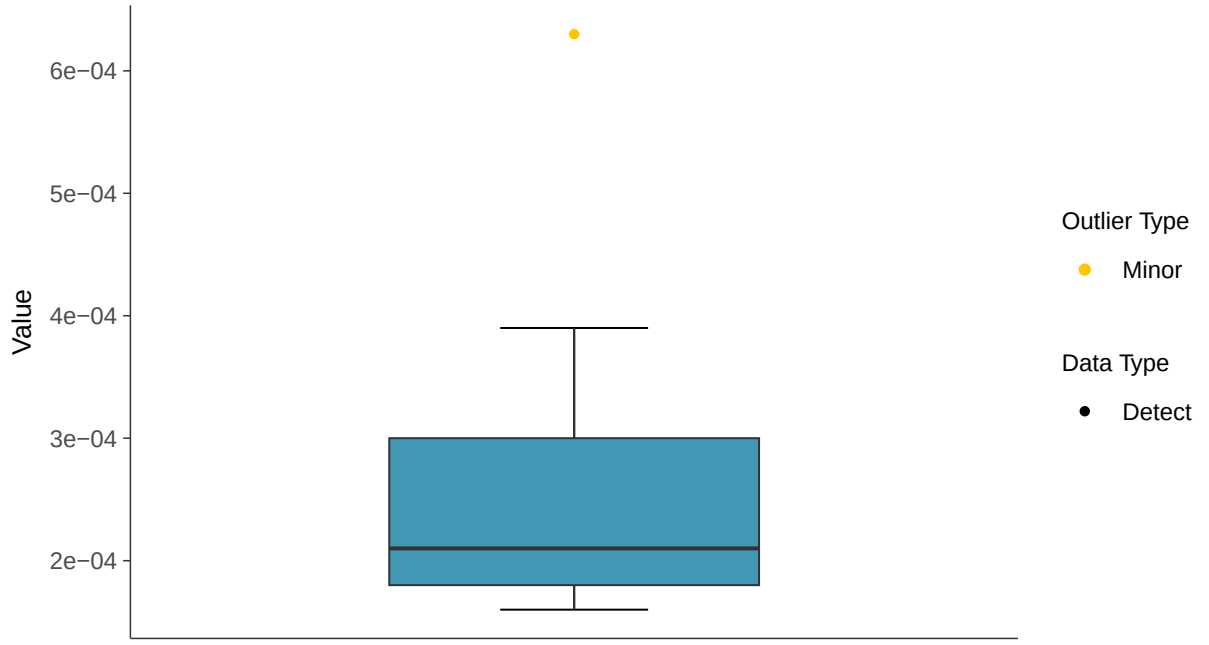
Histogram

Cobalt, MW-16 (mg/L)



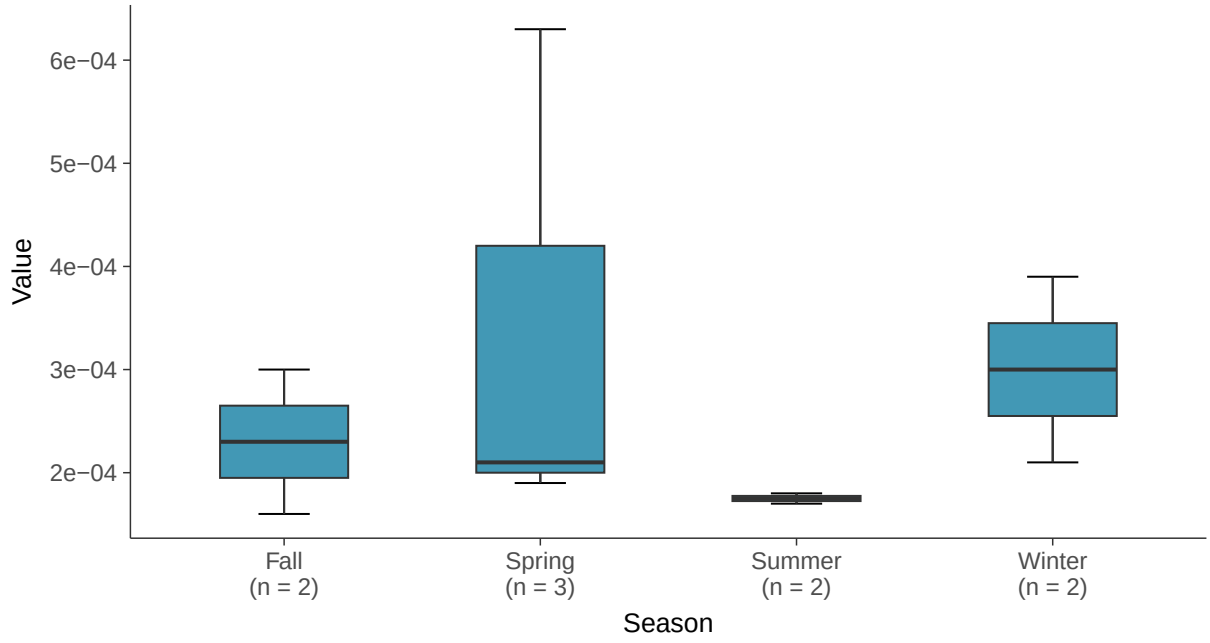
Boxplot

Cobalt, MW-16 (mg/L)



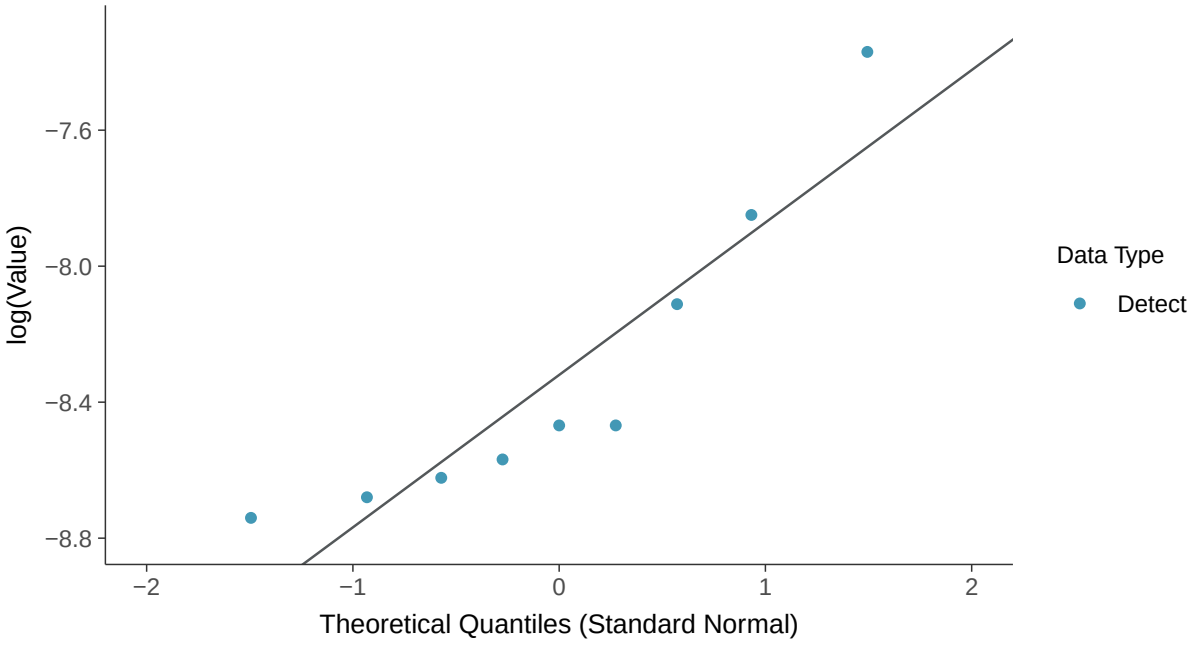
Boxplot by Season

Cobalt, MW-16 (mg/L)



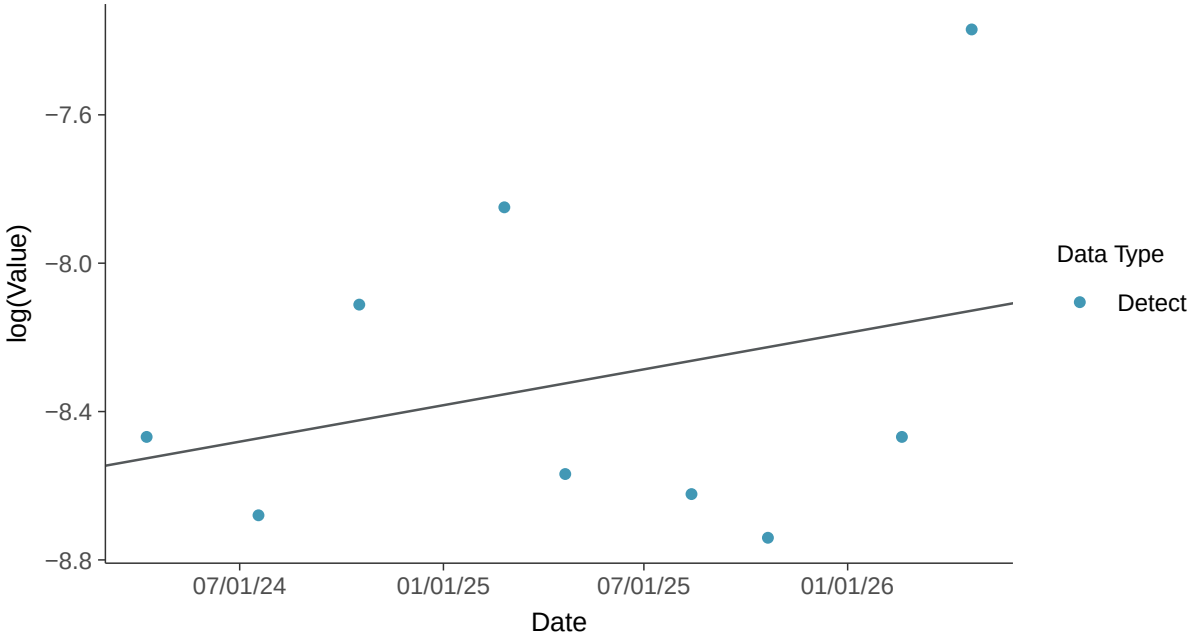
Lognormal Q-Q plot

Cobalt, MW-16 (mg/L)



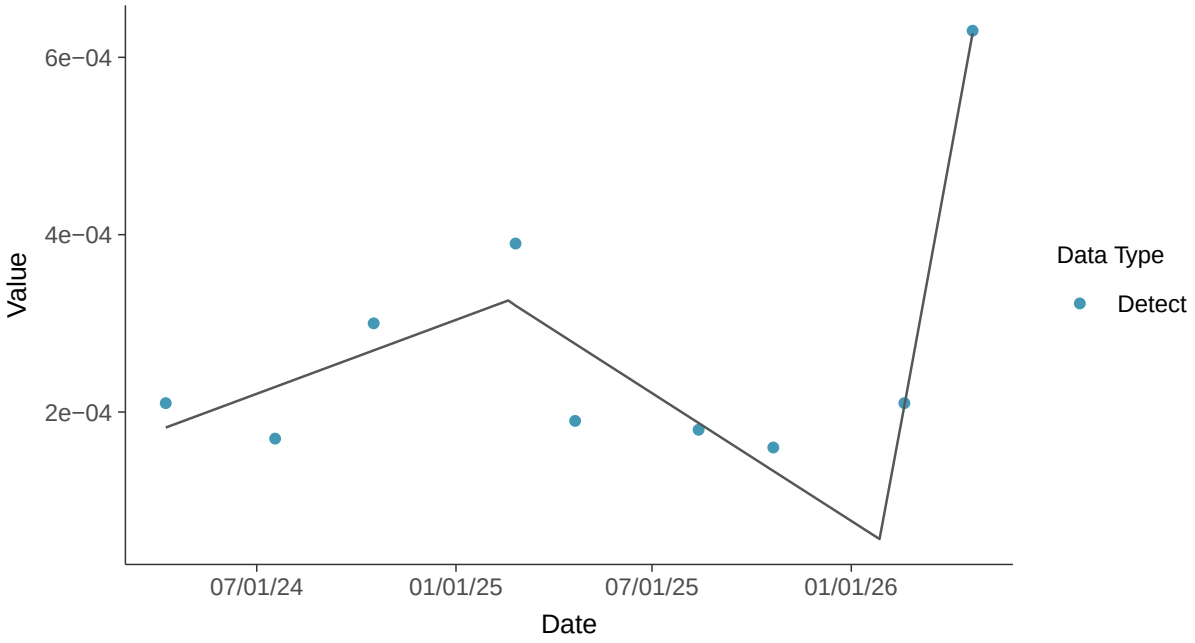
Trend Regression: Lognormal MLE

Cobalt, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-16 (mg/L)

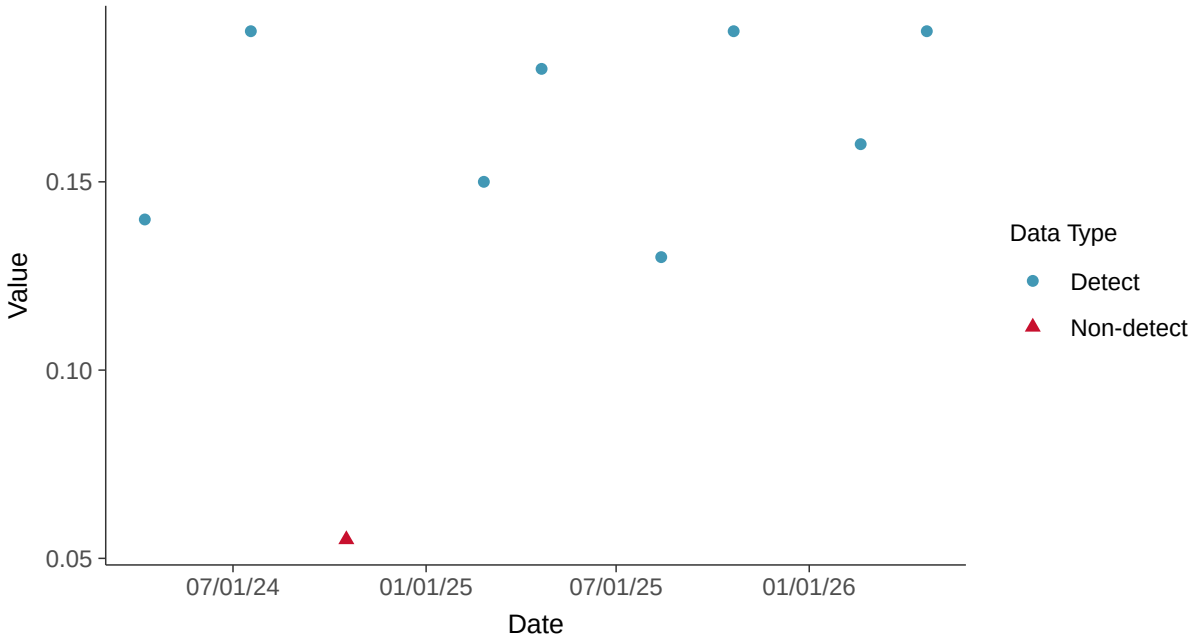


Appendix IV: Fluoride (App IV), MW-16

ID: 26_1_4_113

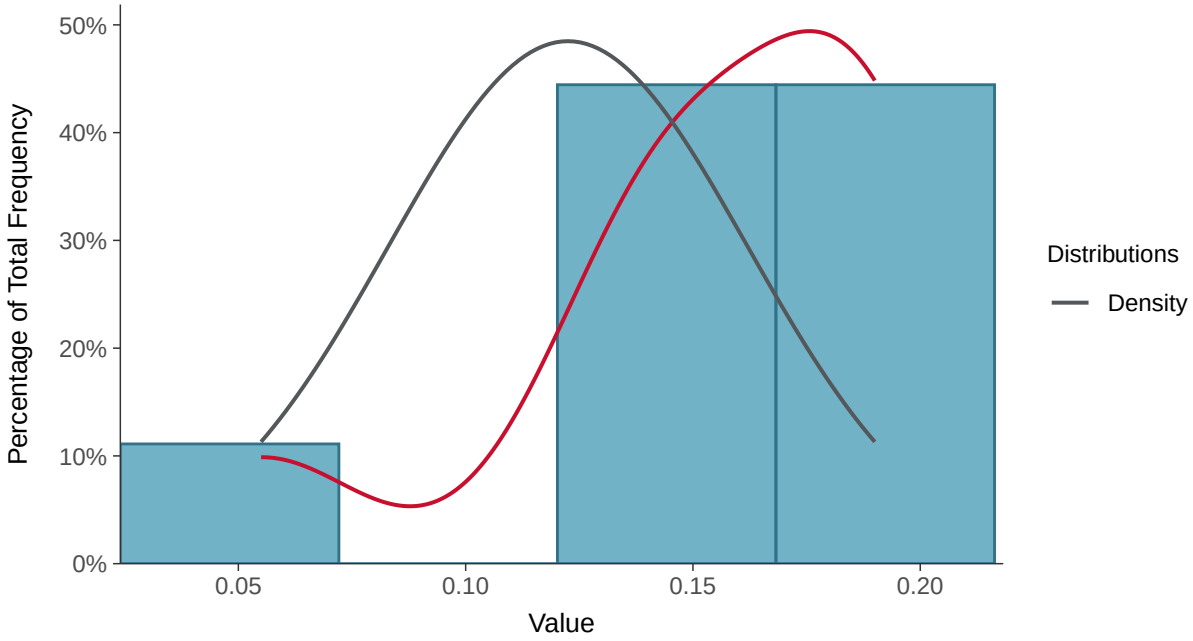
Scatter Plot

Fluoride (App IV), MW-16 (mg/L)



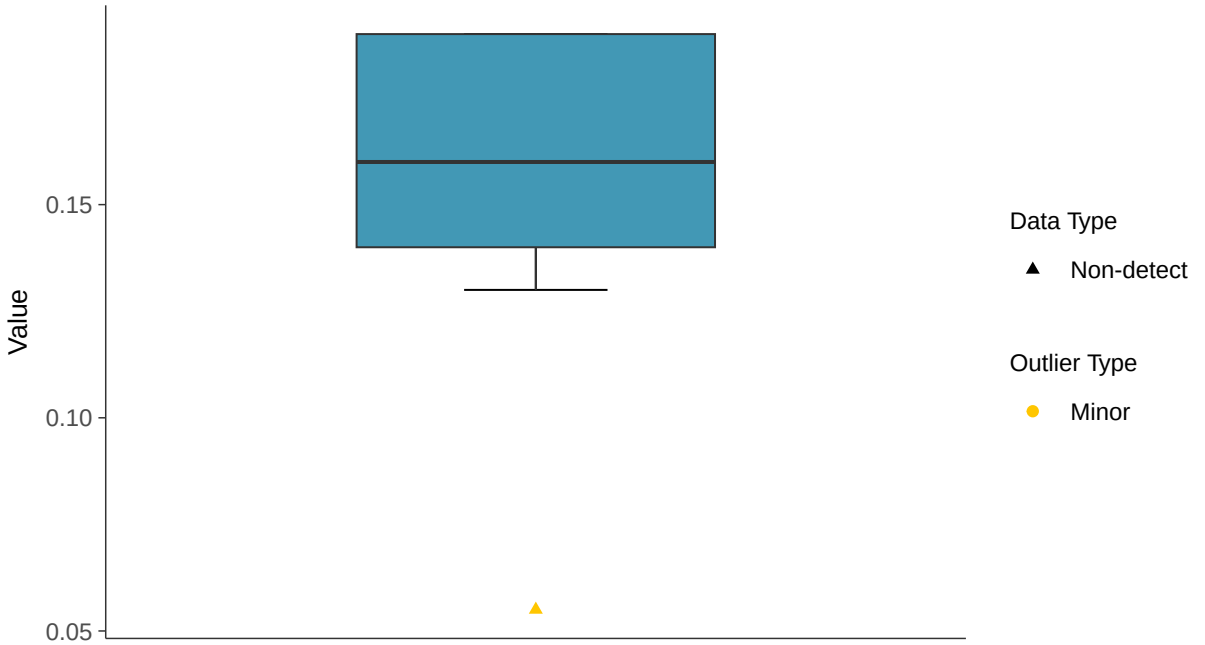
Histogram

Fluoride (App IV), MW-16 (mg/L)



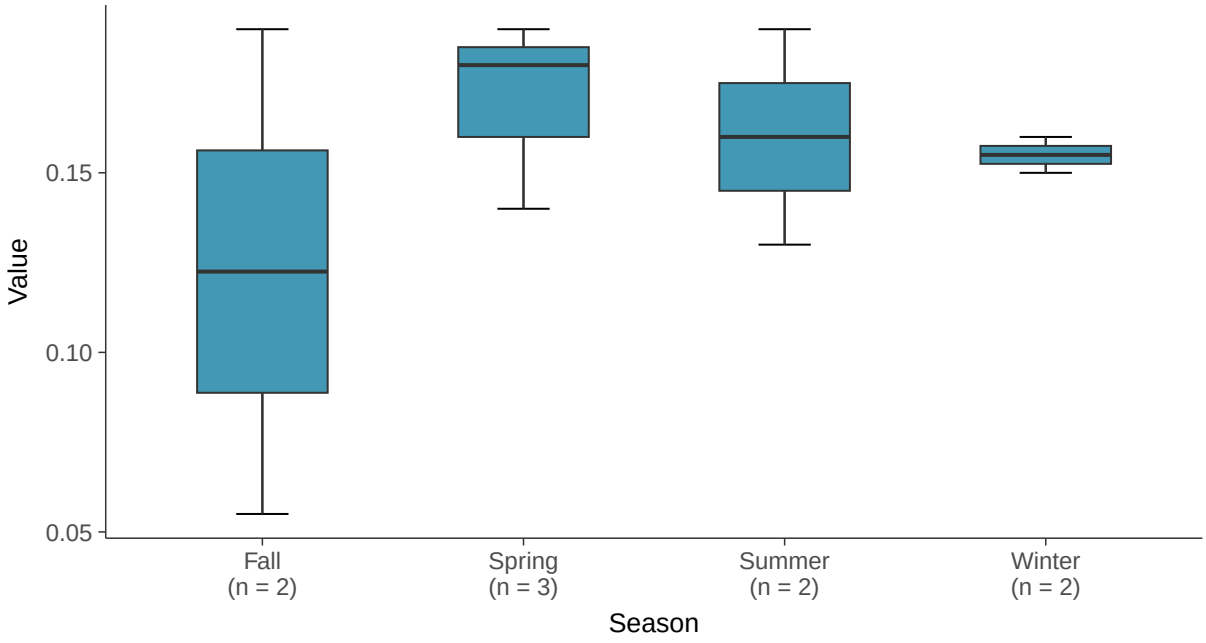
Boxplot

Fluoride (App IV), MW-16 (mg/L)



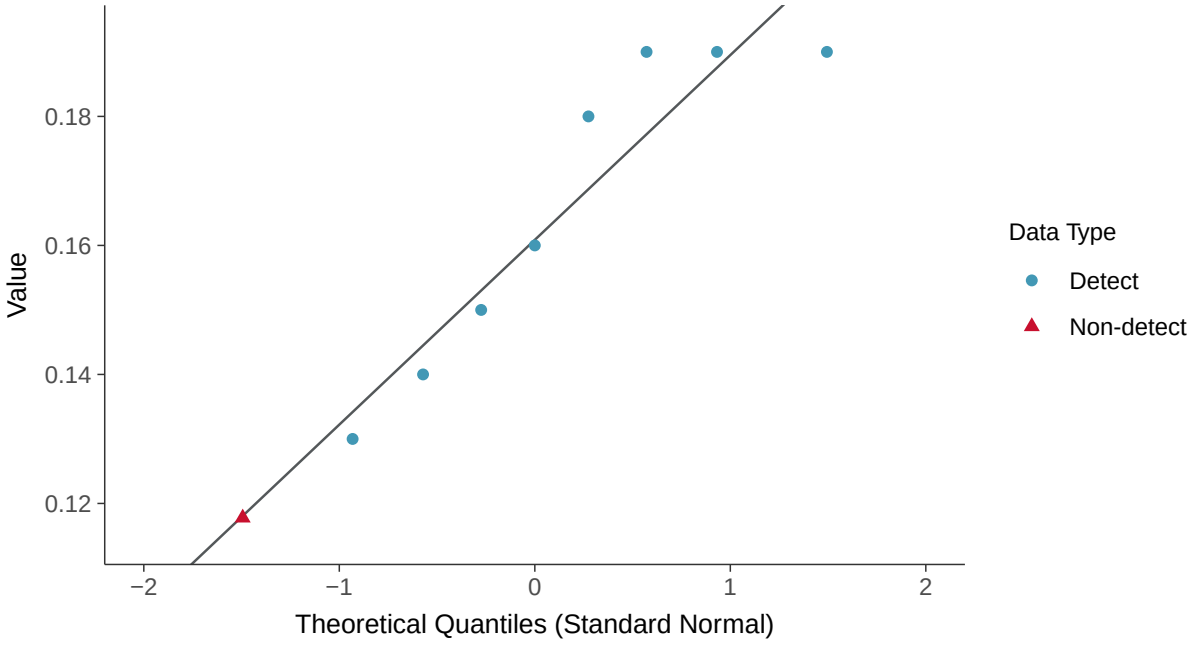
Boxplot by Season

Fluoride (App IV), MW-16 (mg/L)



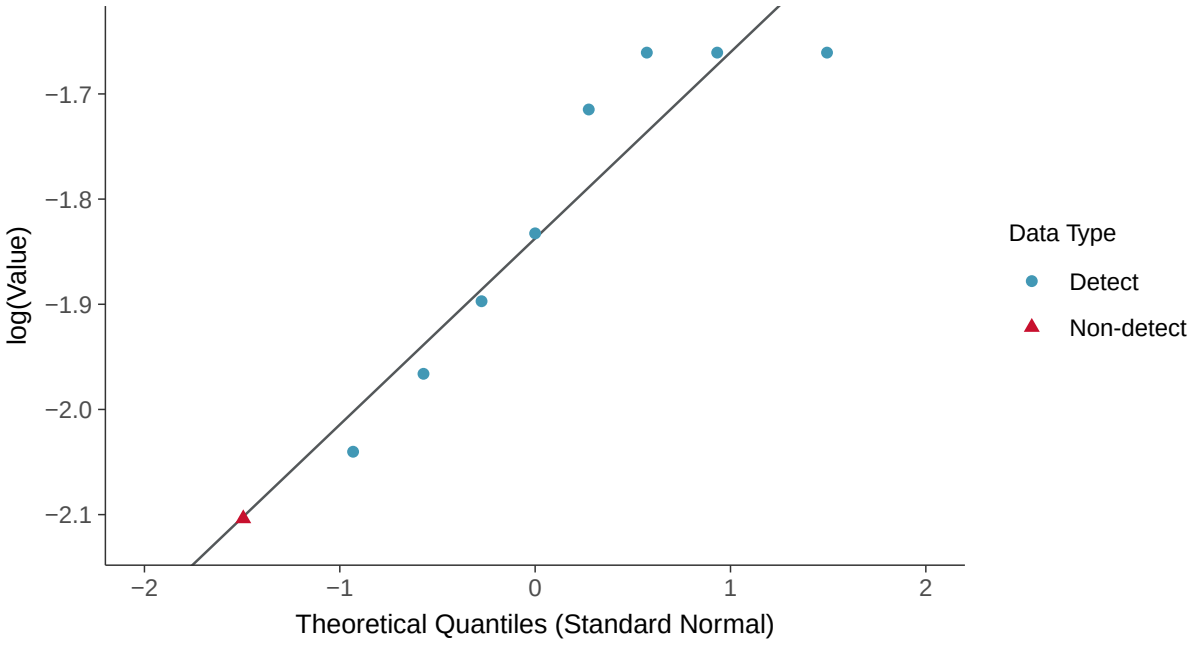
Normal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-16 (mg/L)



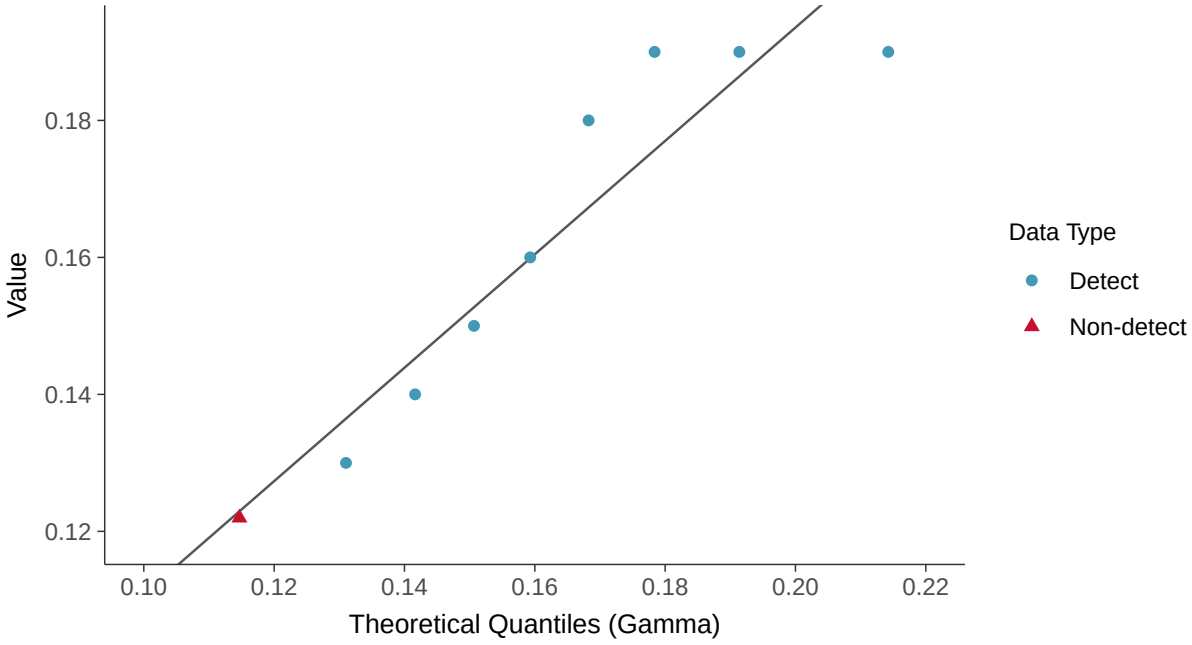
Lognormal Q-Q plot using ROS Imputed Estimates

Fluoride (App IV), MW-16 (mg/L)



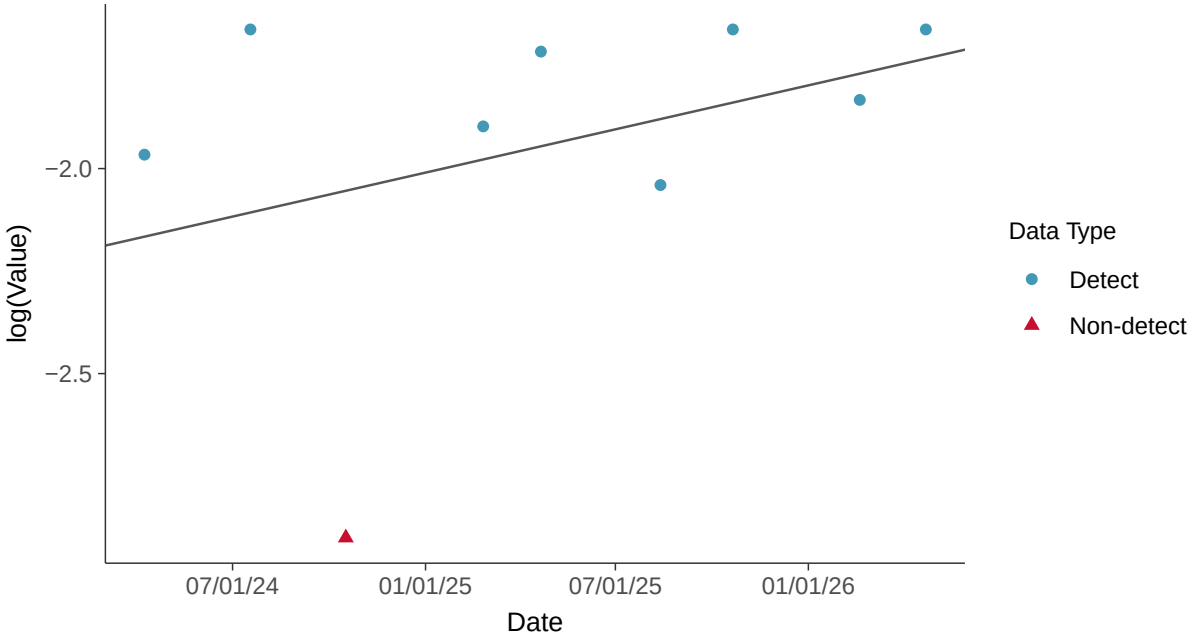
Gamma Q-Q plot using ROS Imputed Estimates

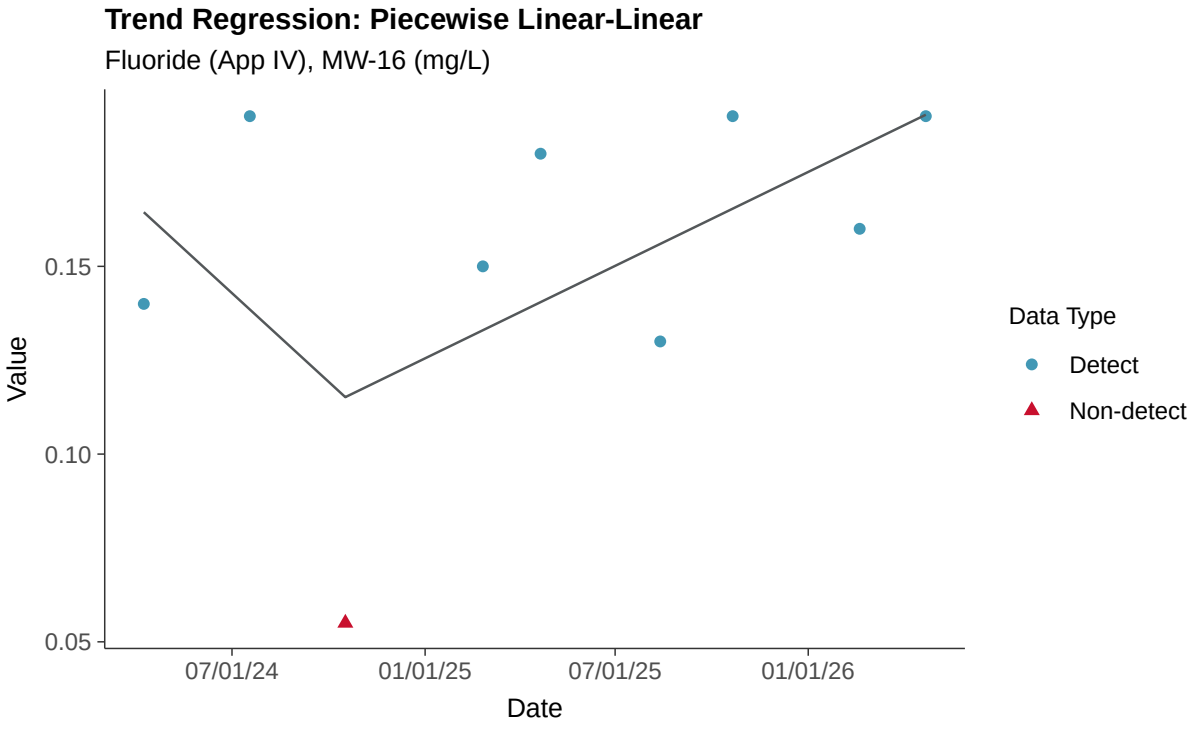
Fluoride (App IV), MW-16 (mg/L)



Trend Regression: Lognormal MLE

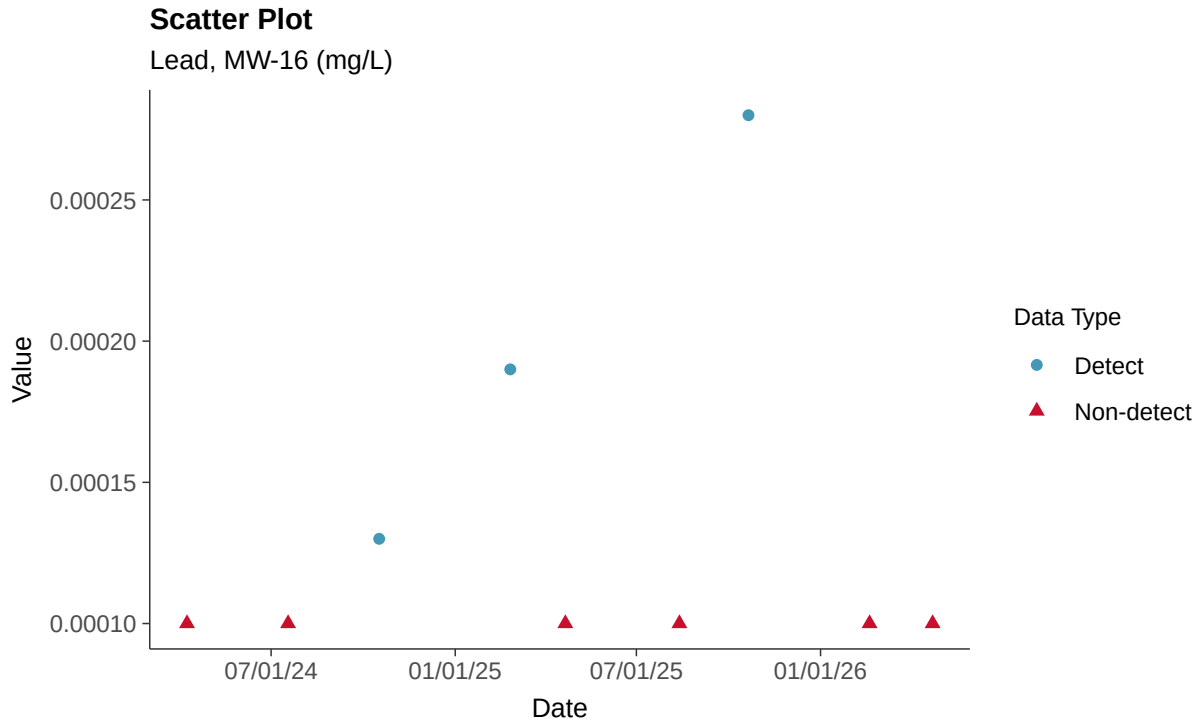
Fluoride (App IV), MW-16 (mg/L)

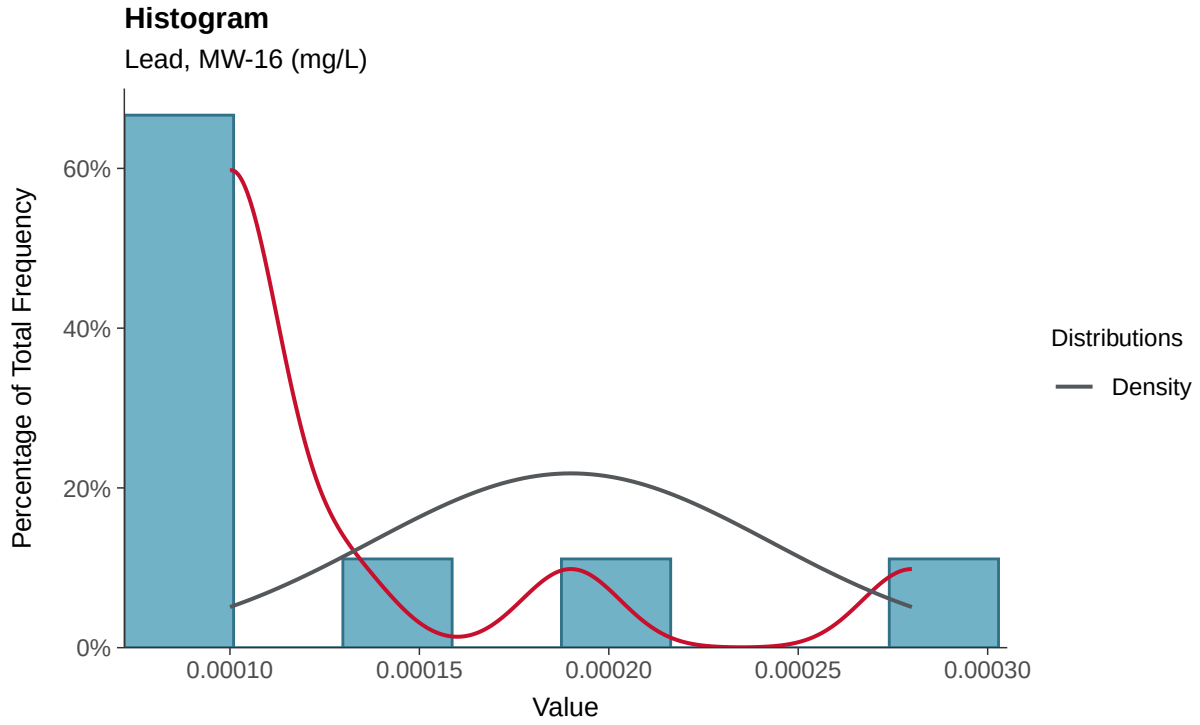



Trend Regression: Piecewise Linear-Linear
Fluoride (App IV), MW-16 (mg/L)
Value
0.15
0.10
0.05
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Lead, MW-16

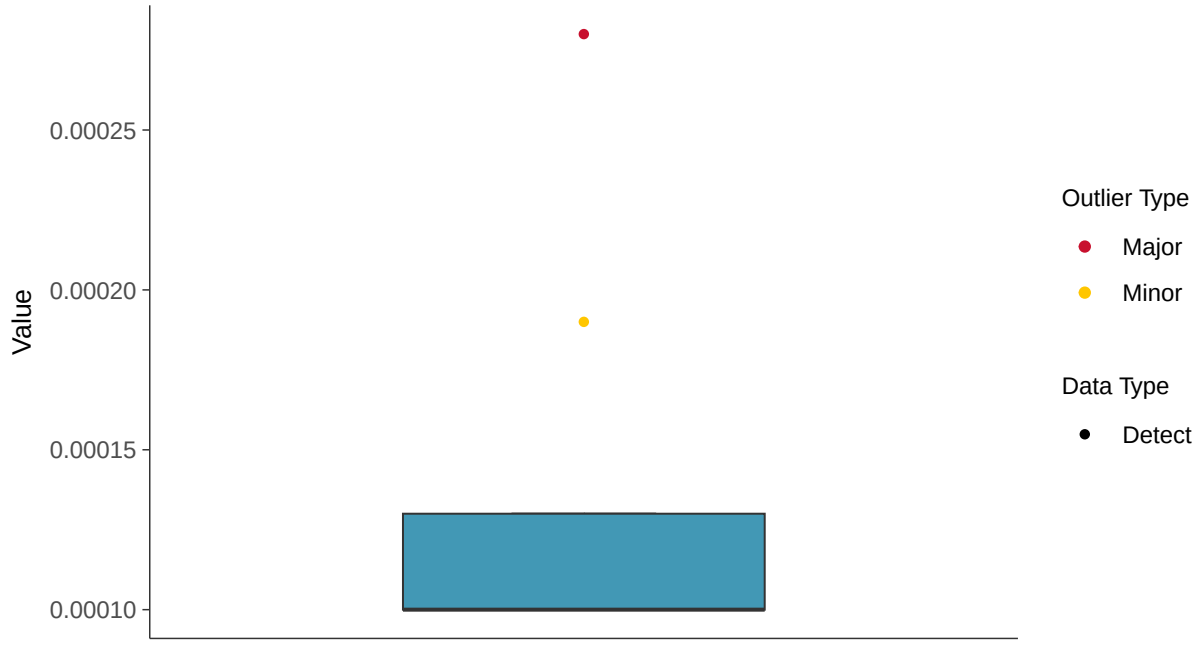
ID: 26_1_4_115





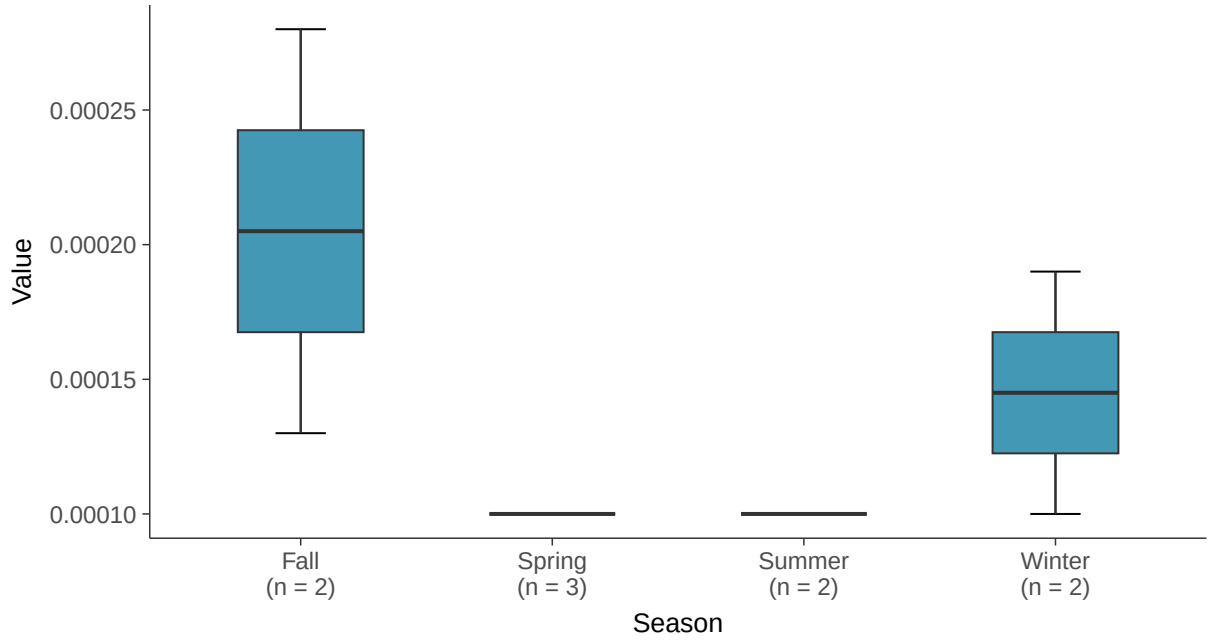
Boxplot

Lead, MW-16 (mg/L)



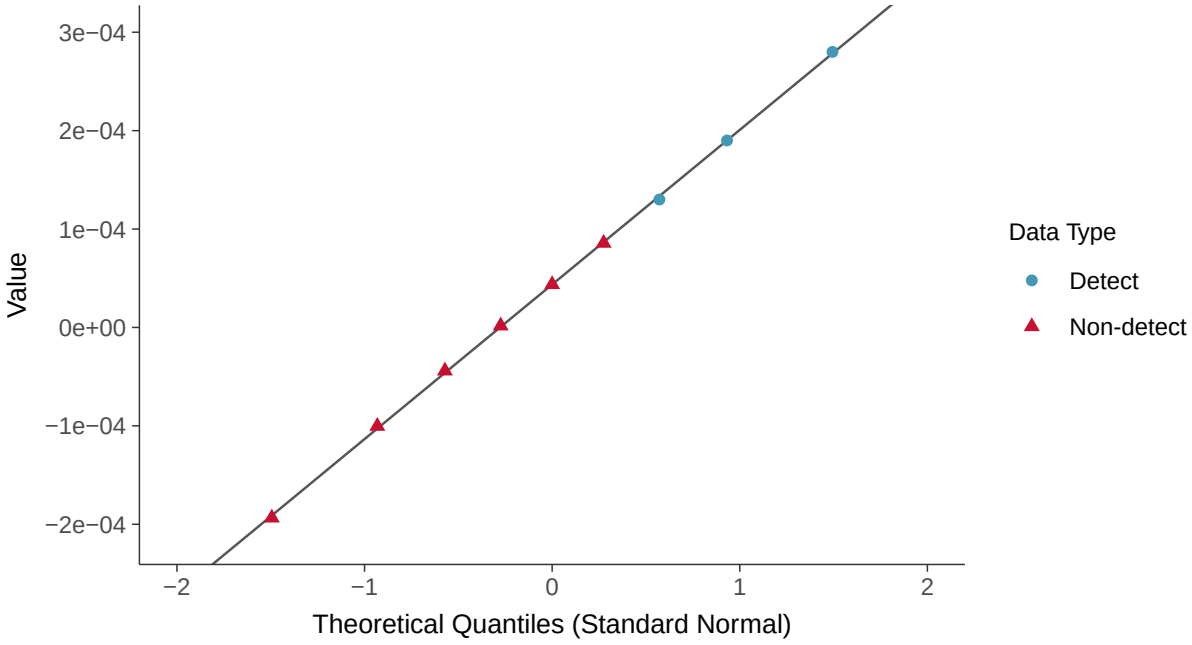
Boxplot by Season

Lead, MW-16 (mg/L)



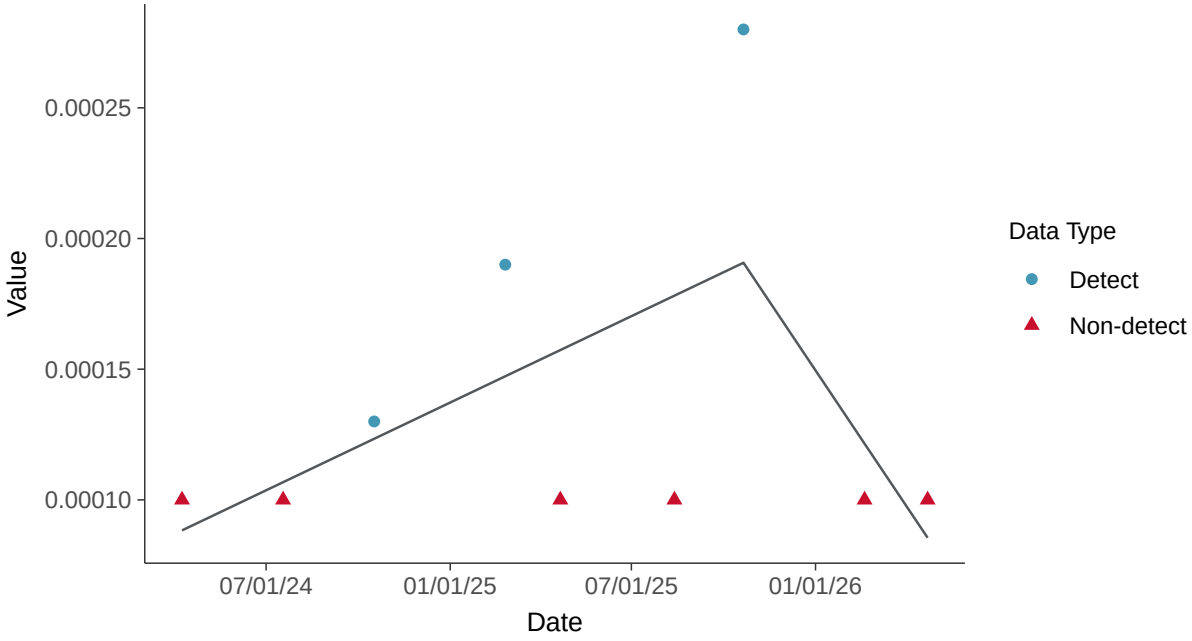
Normal Q-Q plot using ROS Imputed Estimates

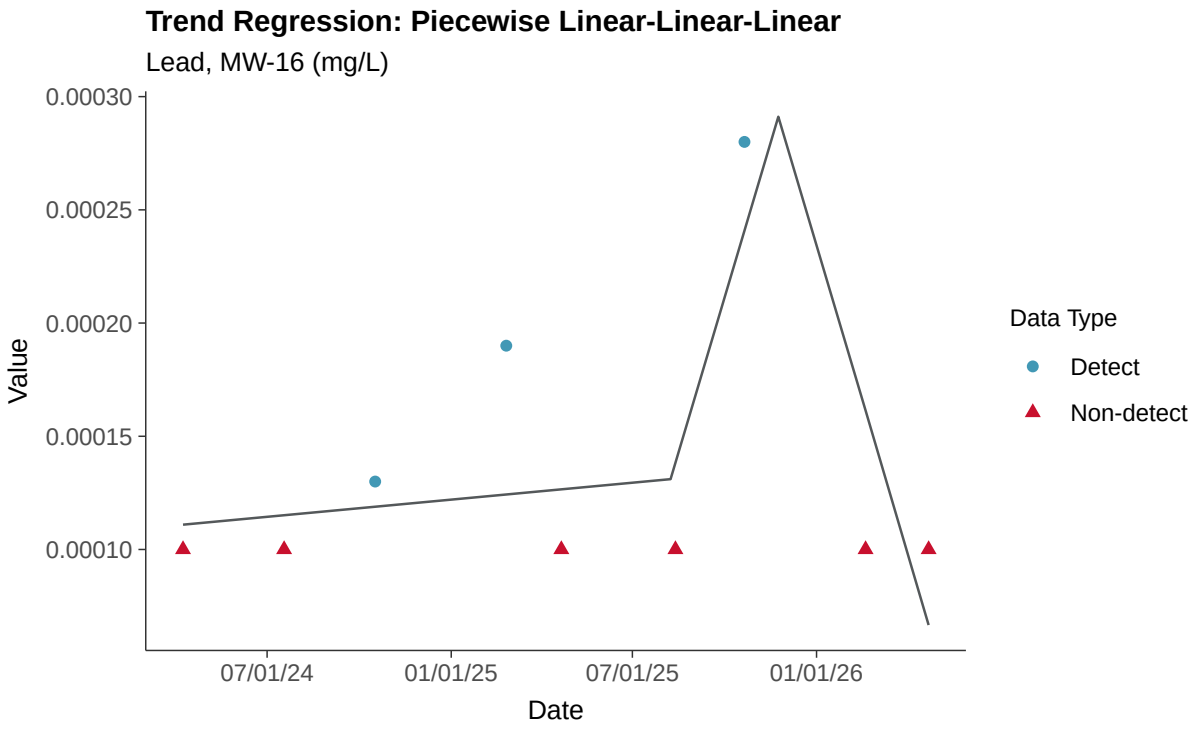
Lead, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear

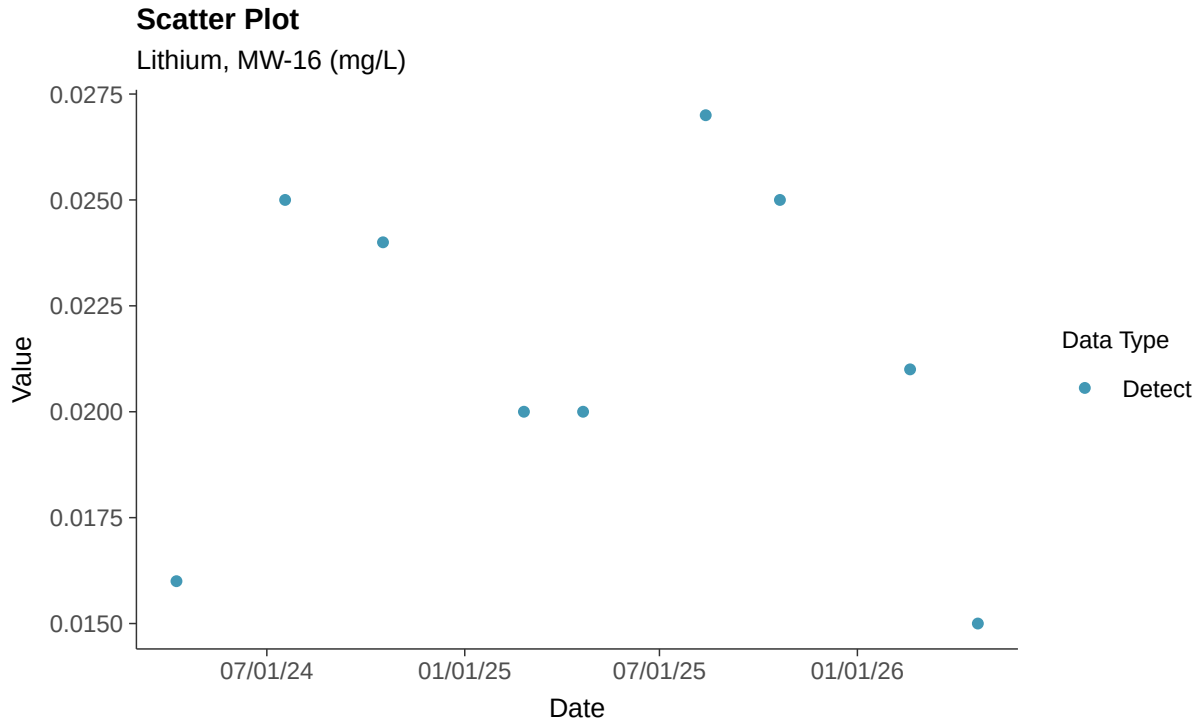
Lead, MW-16 (mg/L)

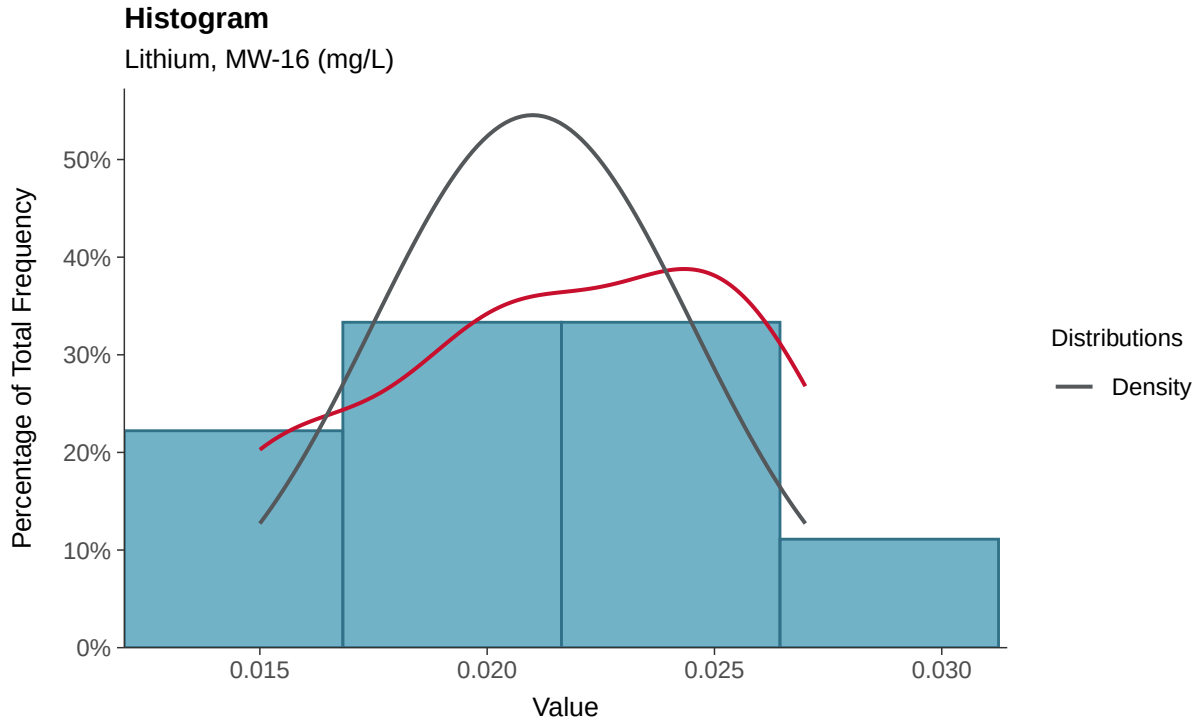



Trend Regression: Piecewise Linear-Linear-Linear
Lead, MW-16 (mg/L)
0.00030
0.00025
0.00020
0.00015
0.00010
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Lithium, MW-16

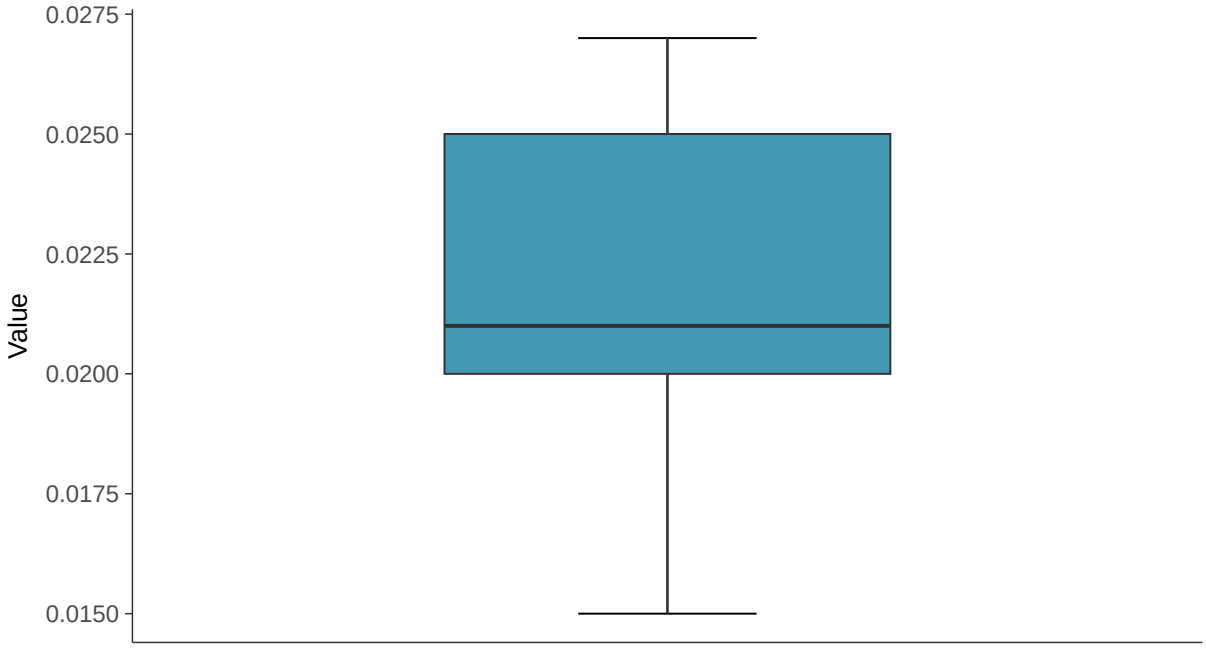
ID: 26_1_4_116





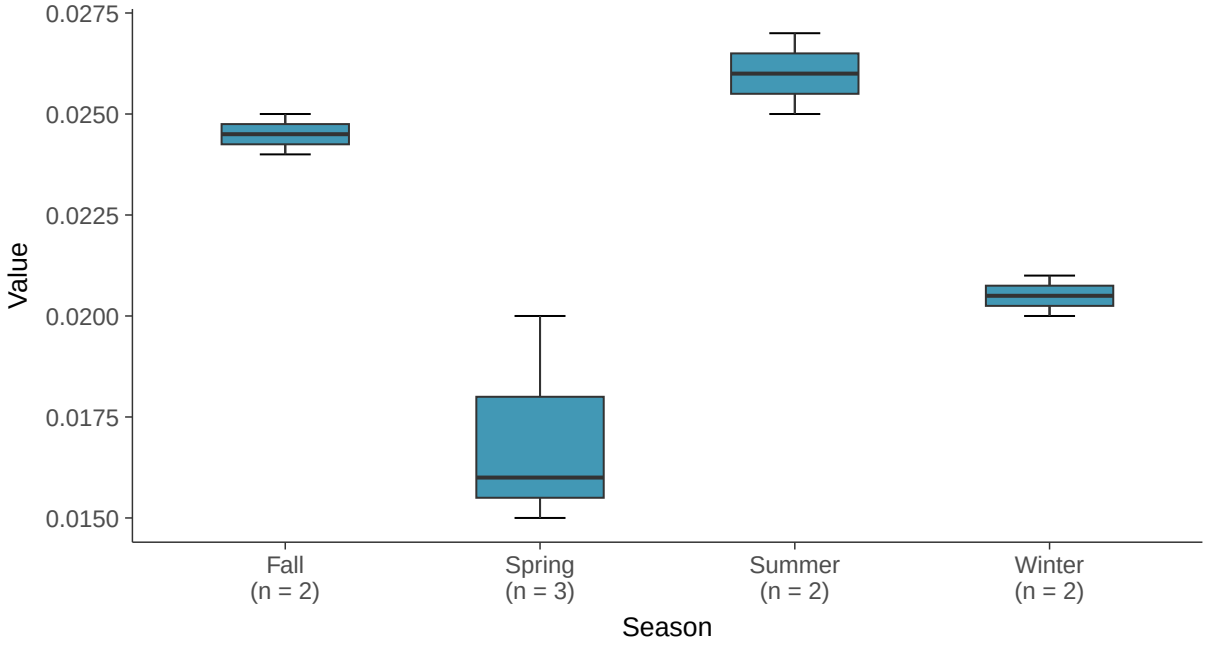
Boxplot

Lithium, MW-16 (mg/L)



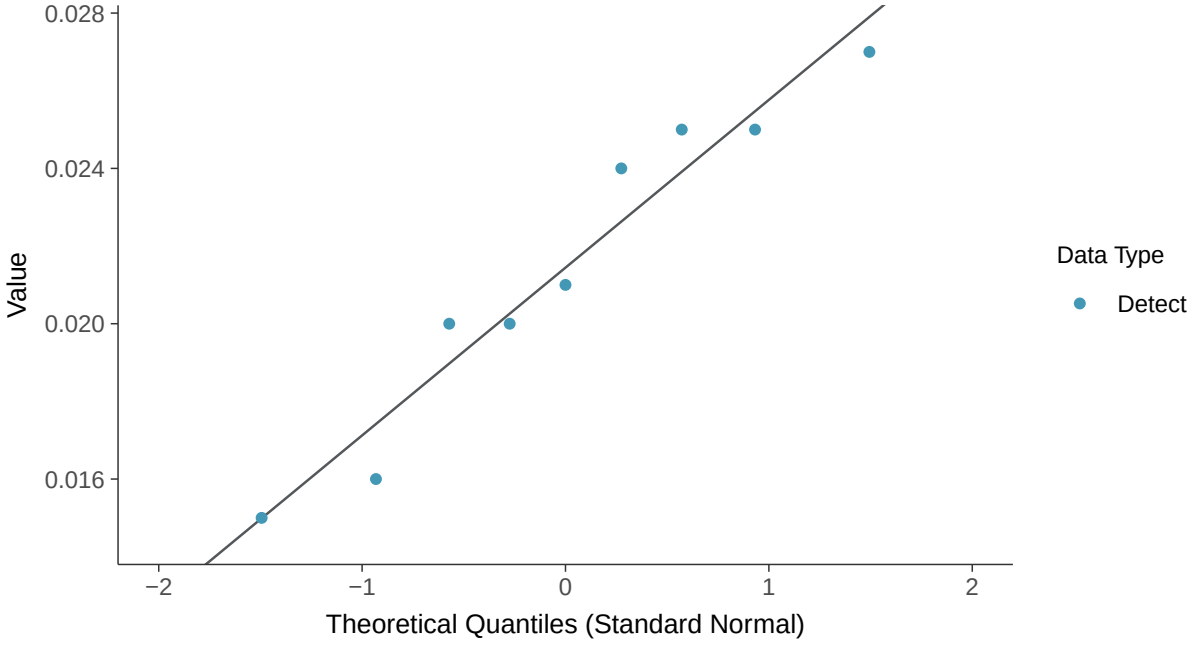
Boxplot by Season

Lithium, MW-16 (mg/L)



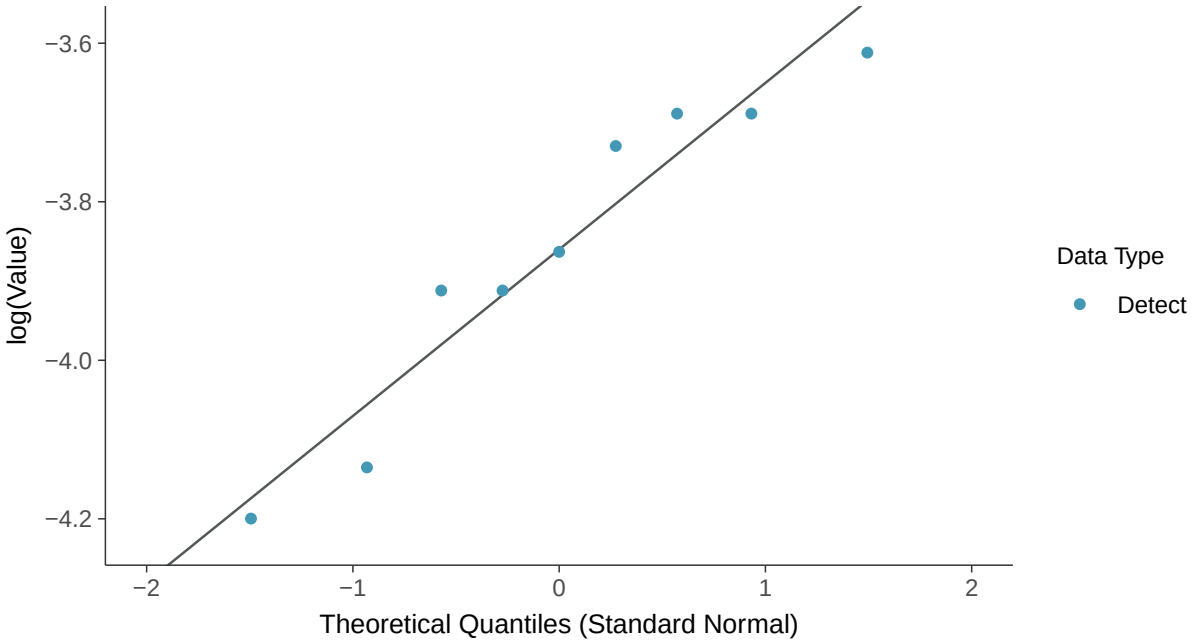
Normal Q-Q plot

Lithium, MW-16 (mg/L)



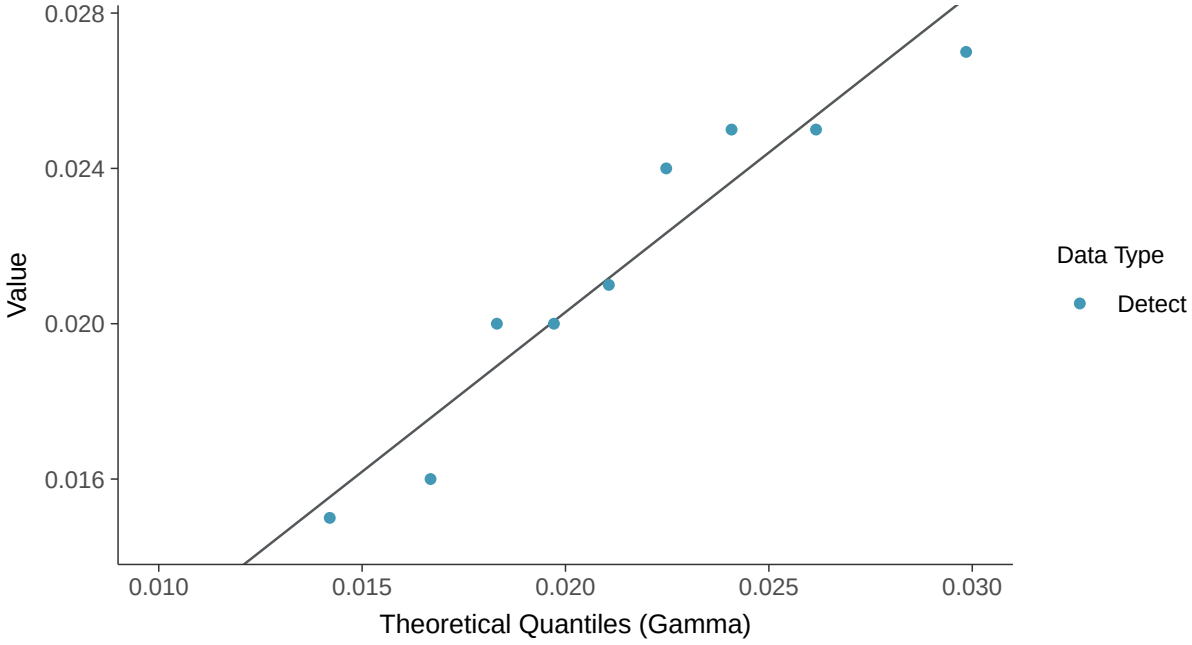
Lognormal Q-Q plot

Lithium, MW-16 (mg/L)



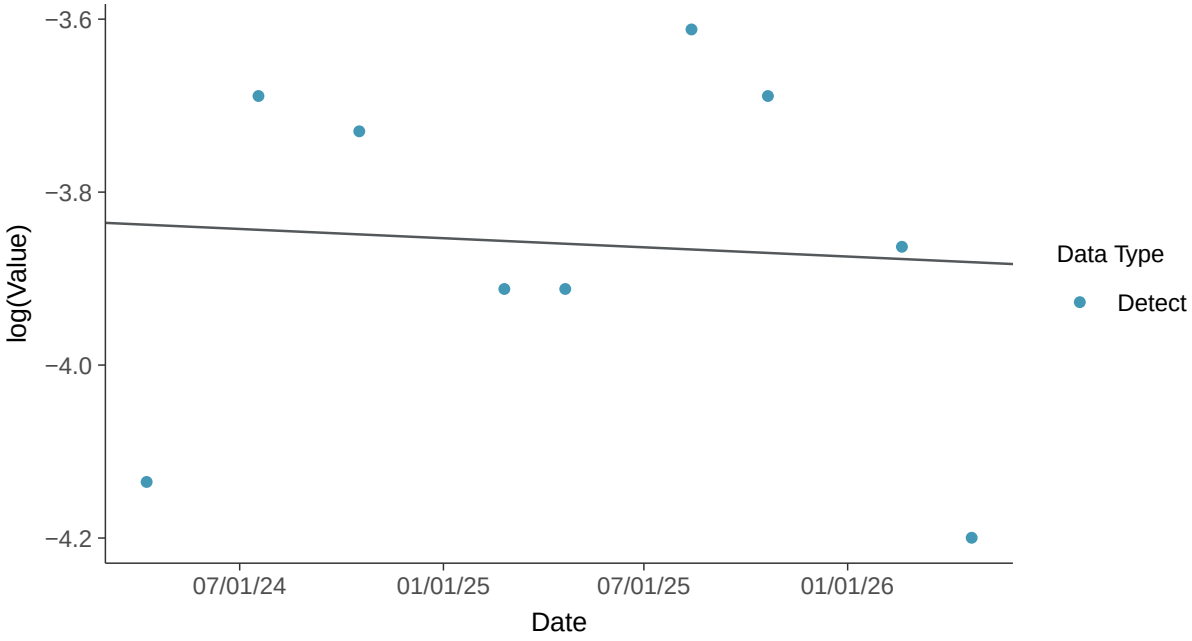
Gamma Q-Q plot

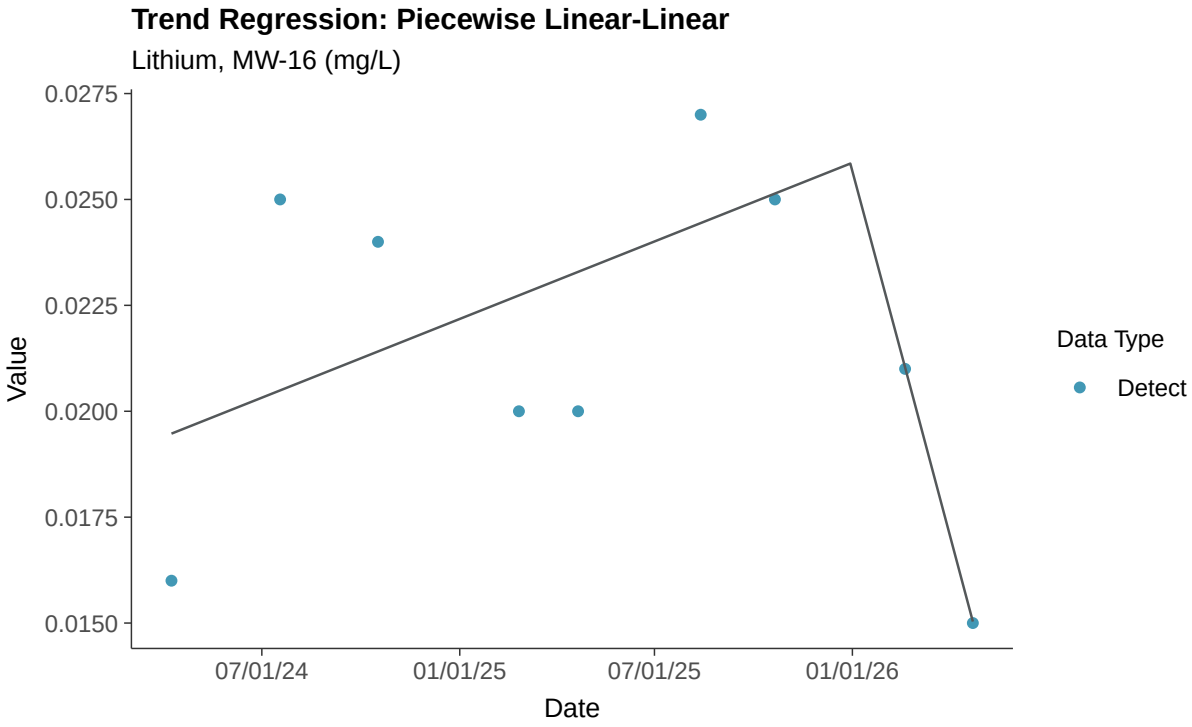
Lithium, MW-16 (mg/L)



Trend Regression: Lognormal MLE

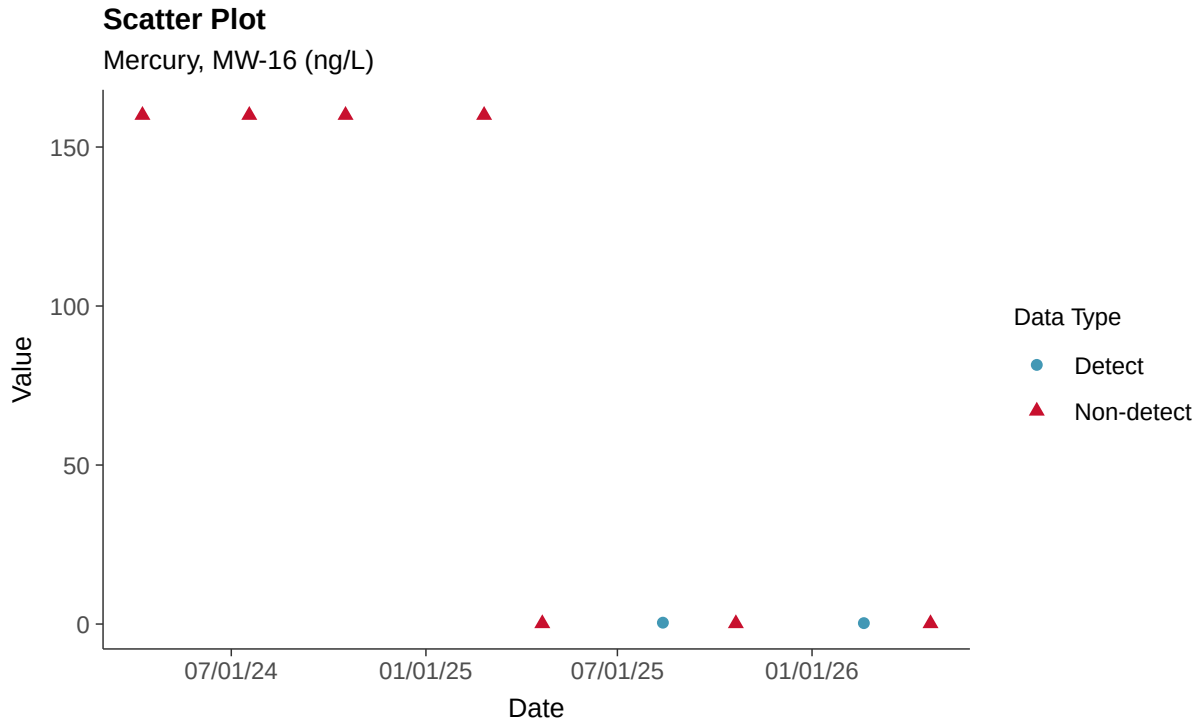
Lithium, MW-16 (mg/L)

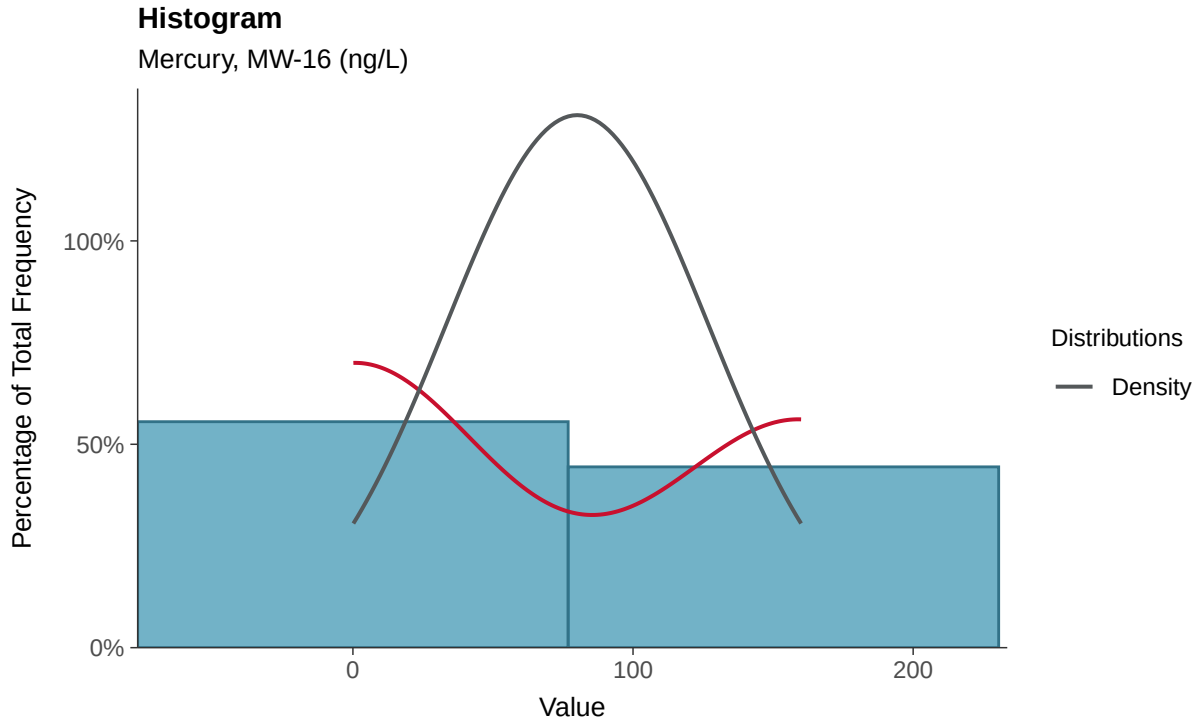



Trend Regression: Piecewise Linear-Linear
Lithium, MW-16 (mg/L)
0.0275
0.0250
0.0225
0.0200
0.0175
0.0150
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Mercury, MW-16

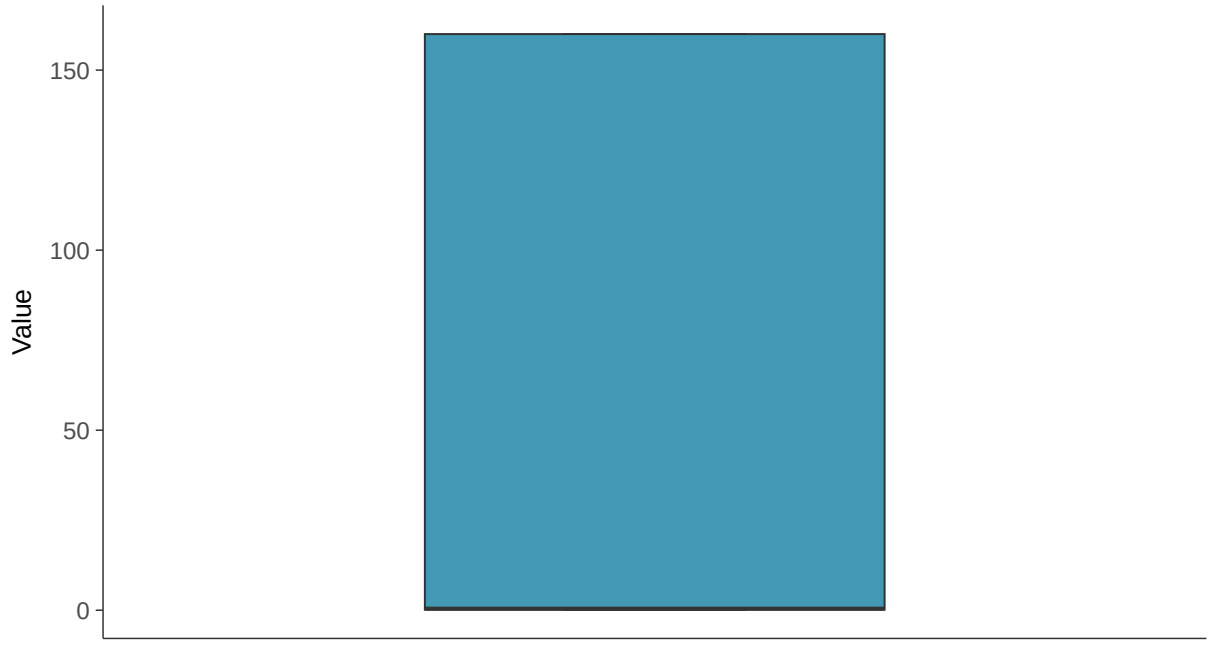
ID: 26_1_4_117





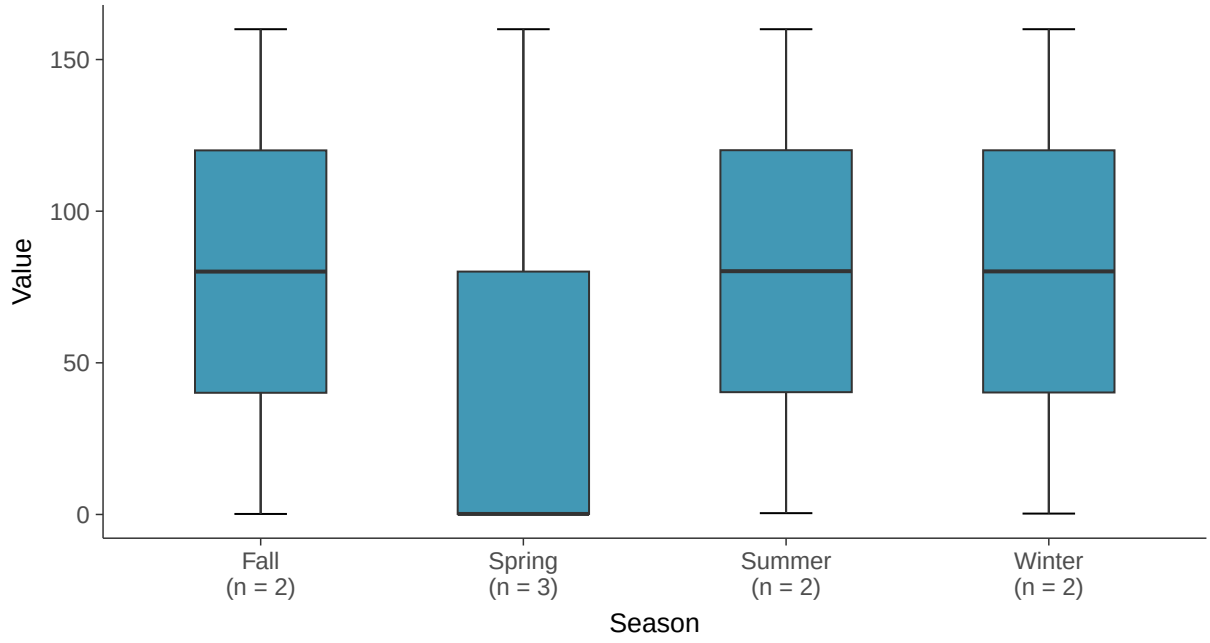
Boxplot

Mercury, MW-16 (ng/L)



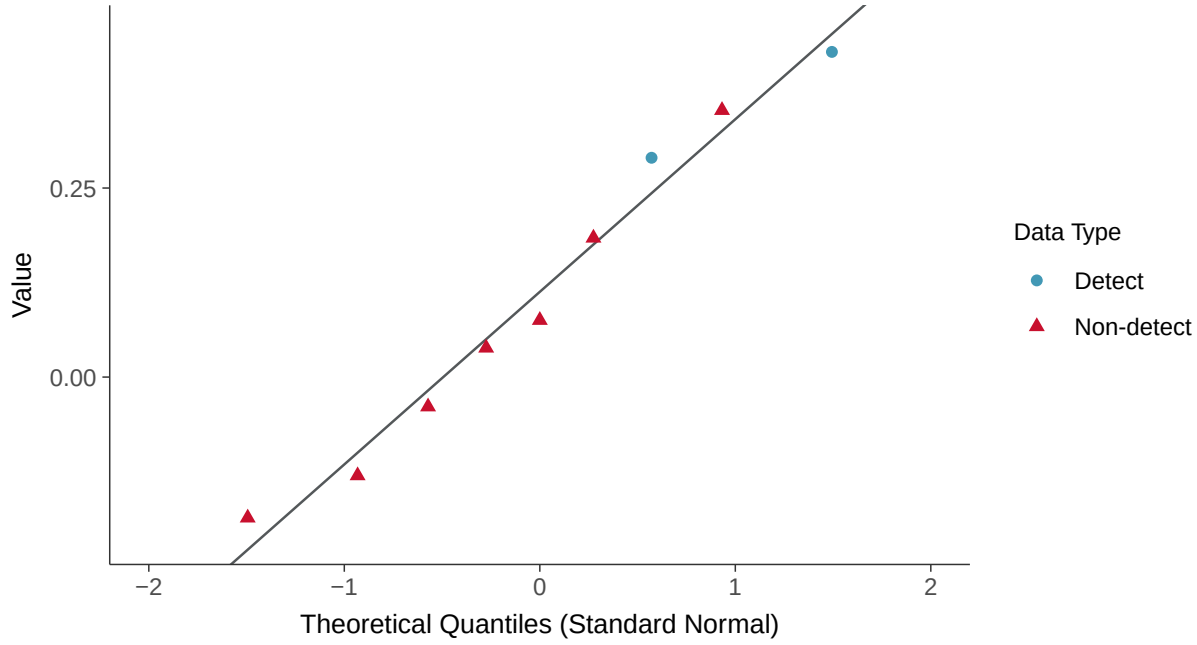
Boxplot by Season

Mercury, MW-16 (ng/L)



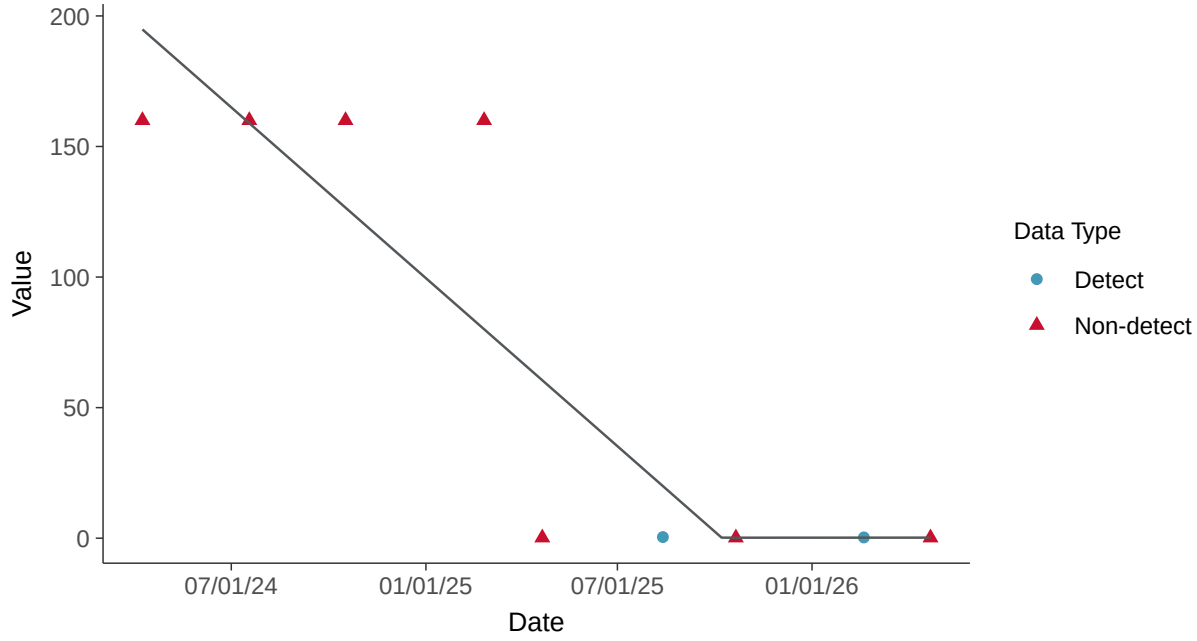
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-16 (ng/L)



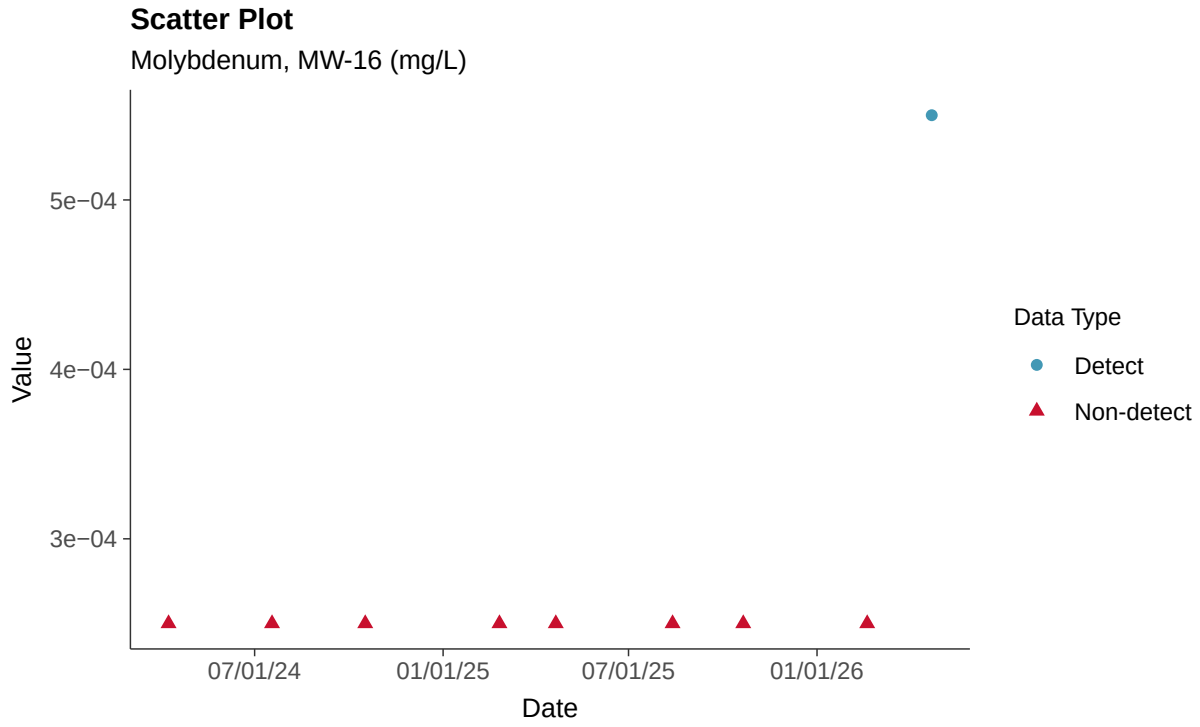
Trend Regression: Piecewise Linear-Linear

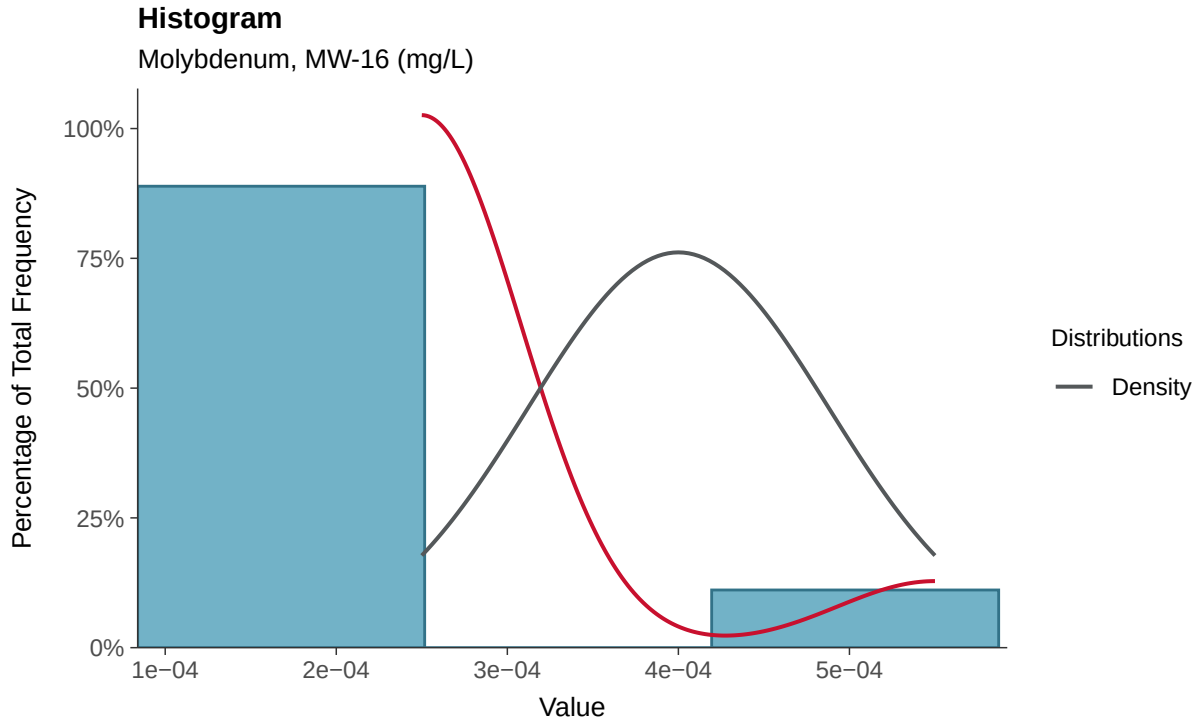
Mercury, MW-16 (ng/L)



Appendix IV: Molybdenum, MW-16

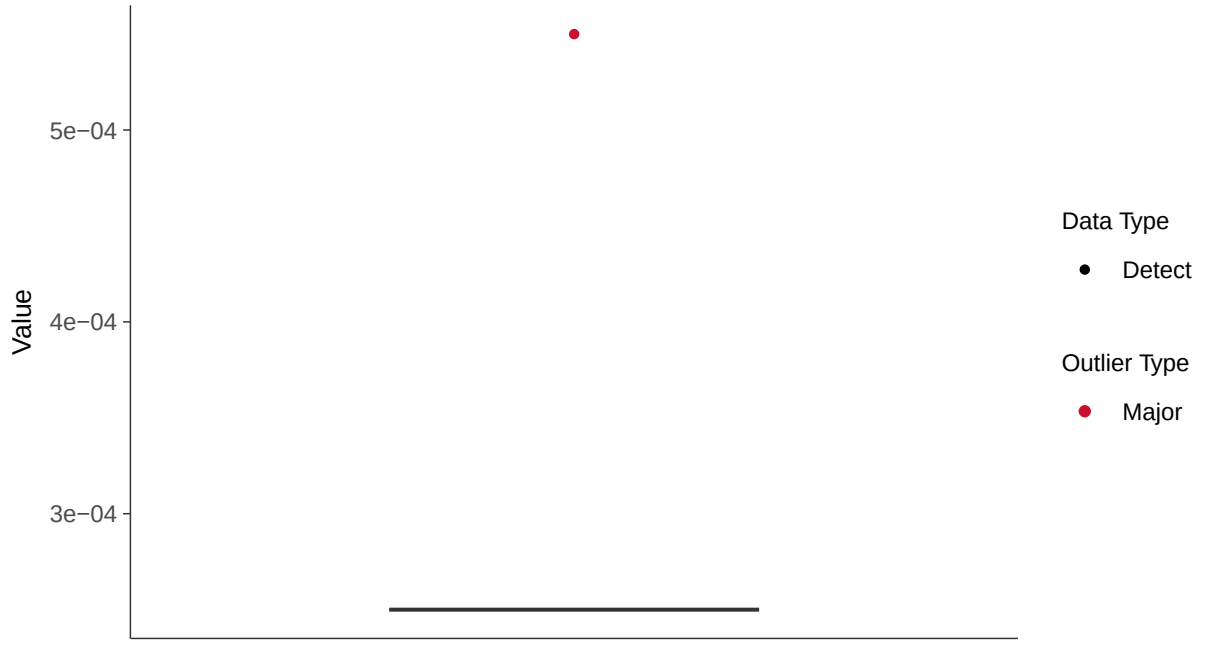
ID: 26_1_4_118





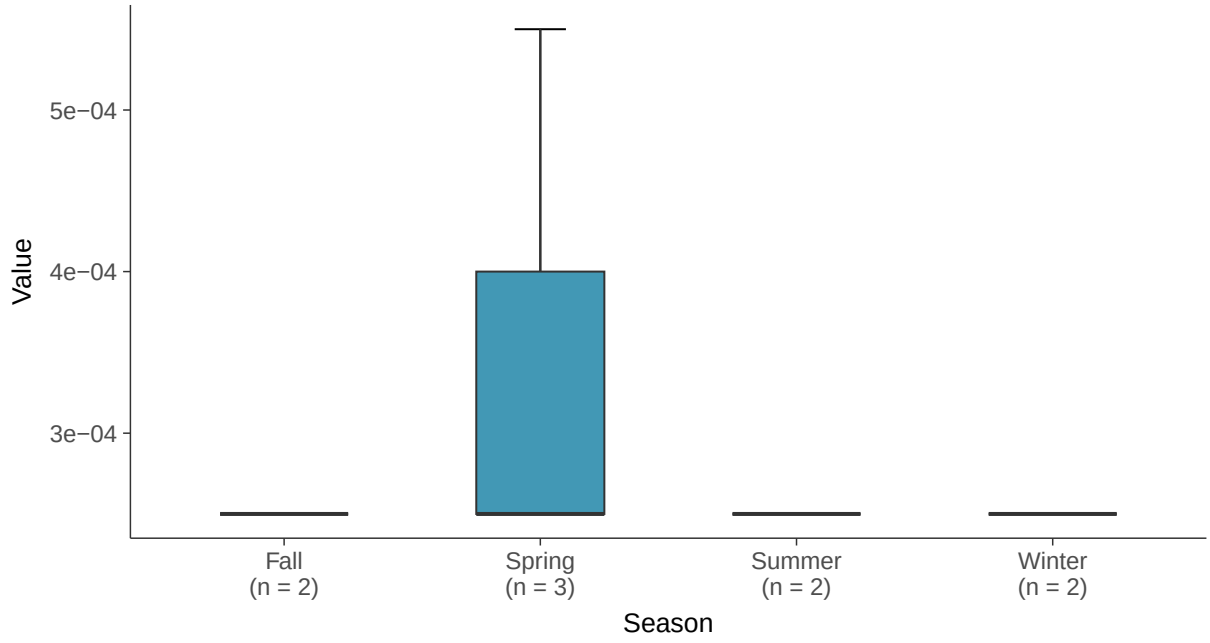
Boxplot

Molybdenum, MW-16 (mg/L)



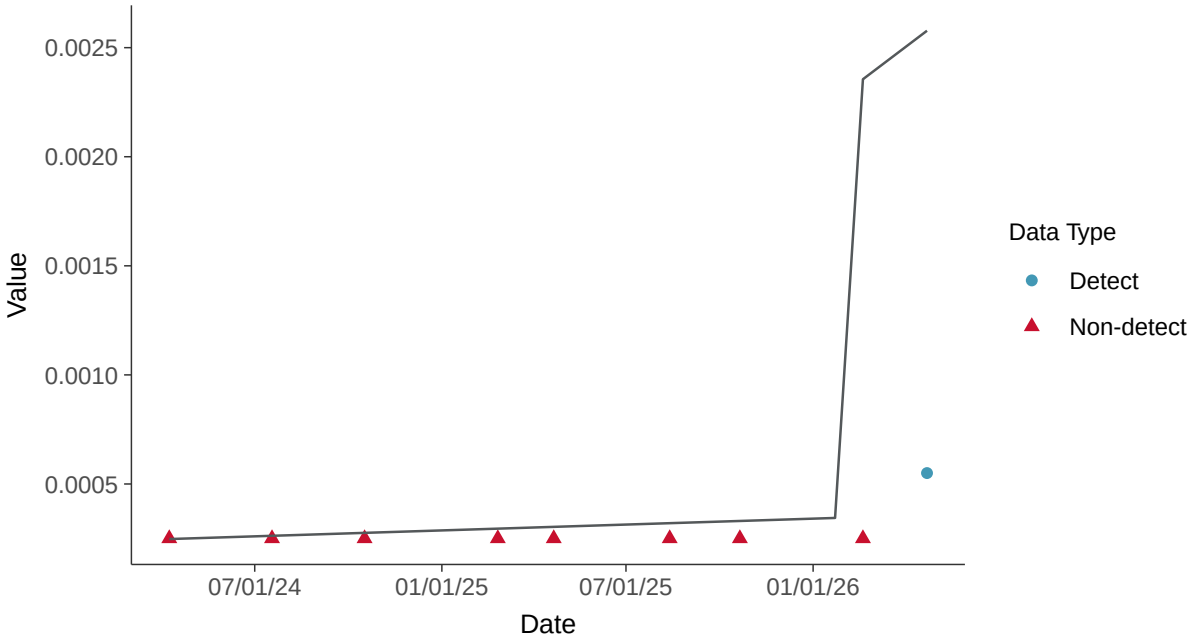
Boxplot by Season

Molybdenum, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-16 (mg/L)

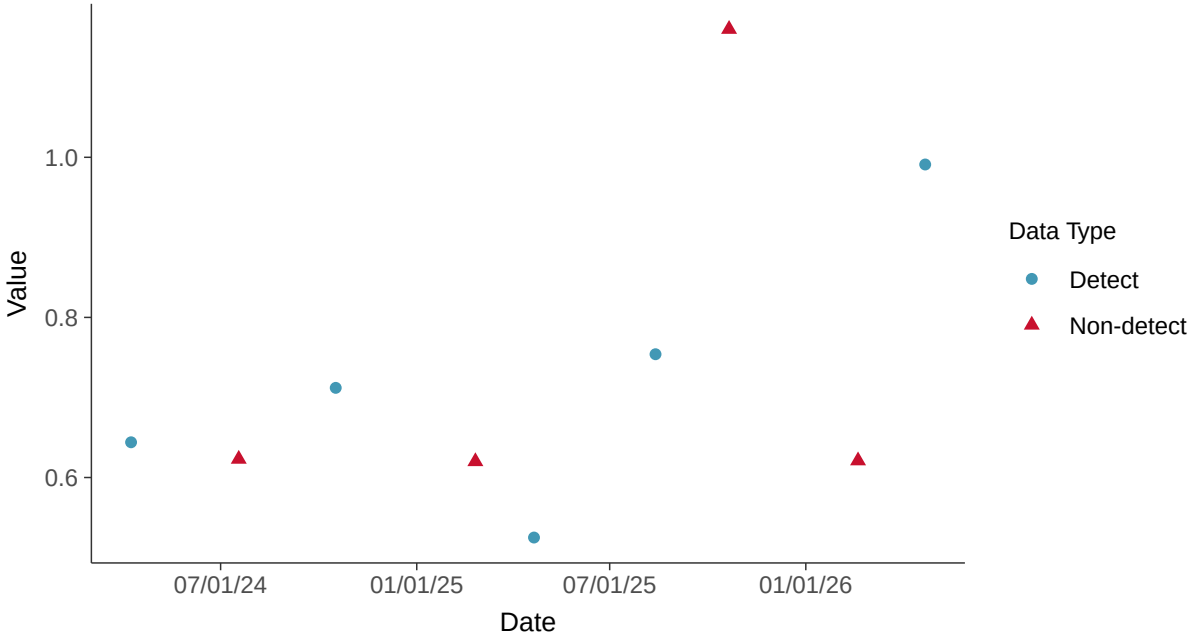


Appendix IV: Radium 226 and 228, MW-16

ID: 26_1_4_121

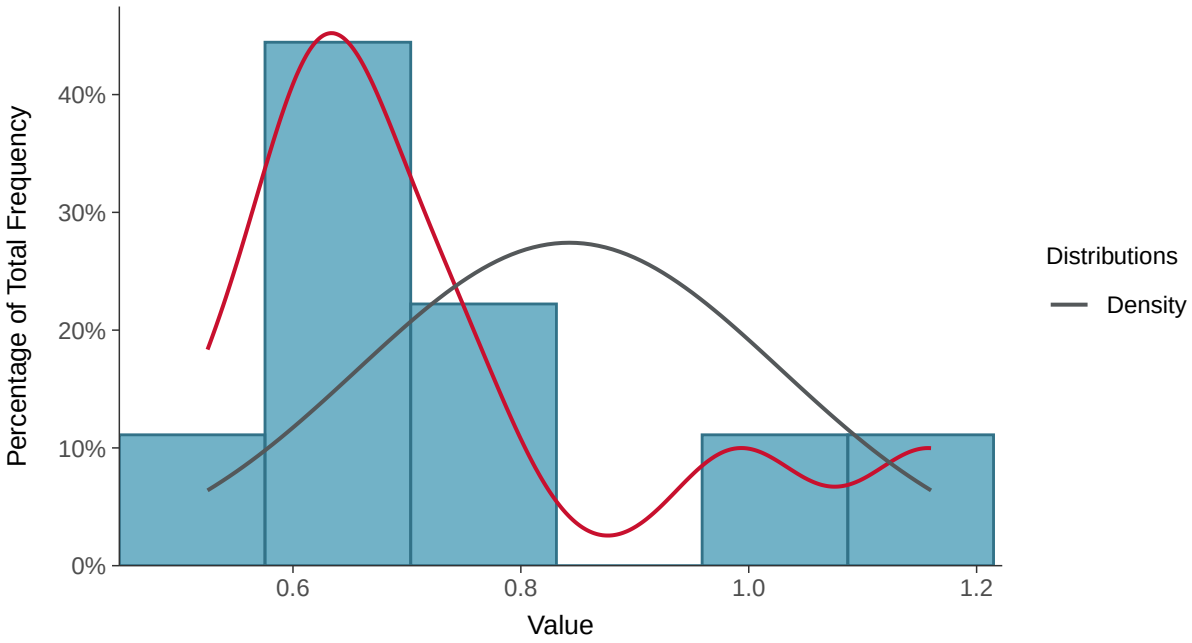
Scatter Plot

Radium 226 and 228, MW-16 (pCi/L)



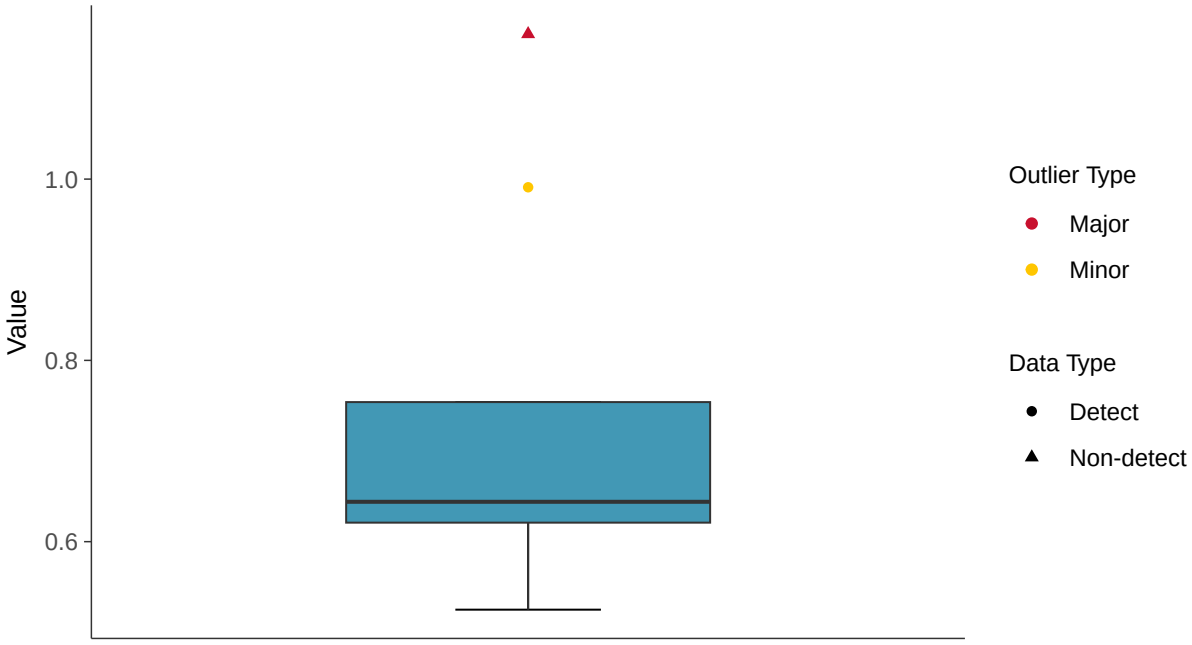
Histogram

Radium 226 and 228, MW-16 (pCi/L)



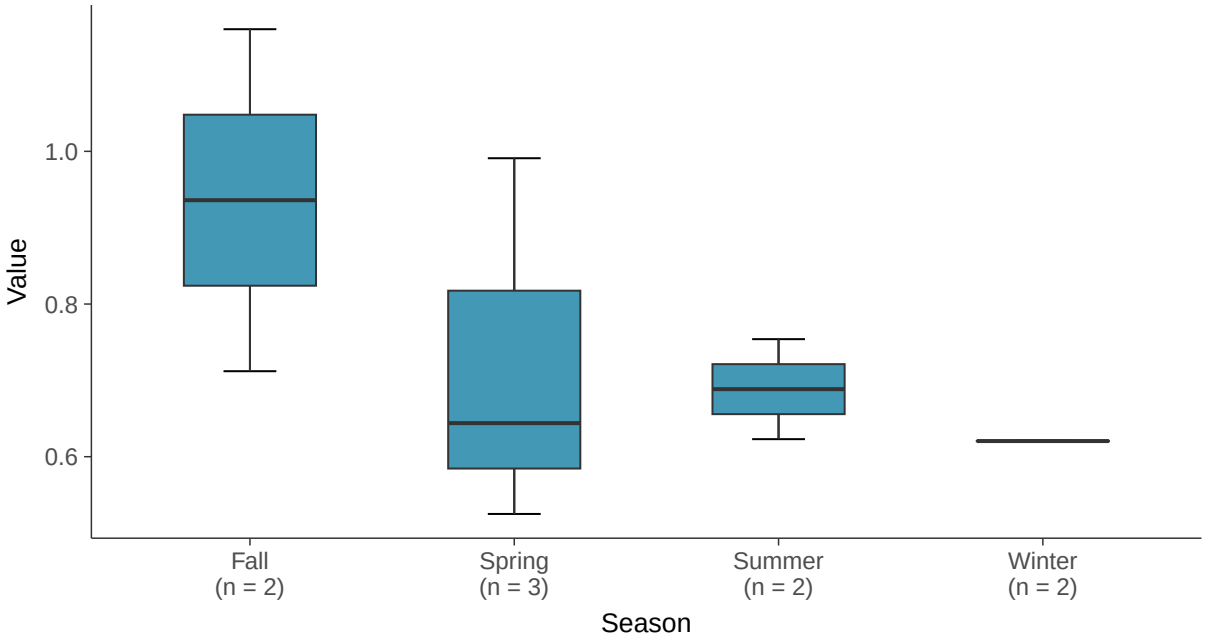
Boxplot

Radium 226 and 228, MW-16 (pCi/L)



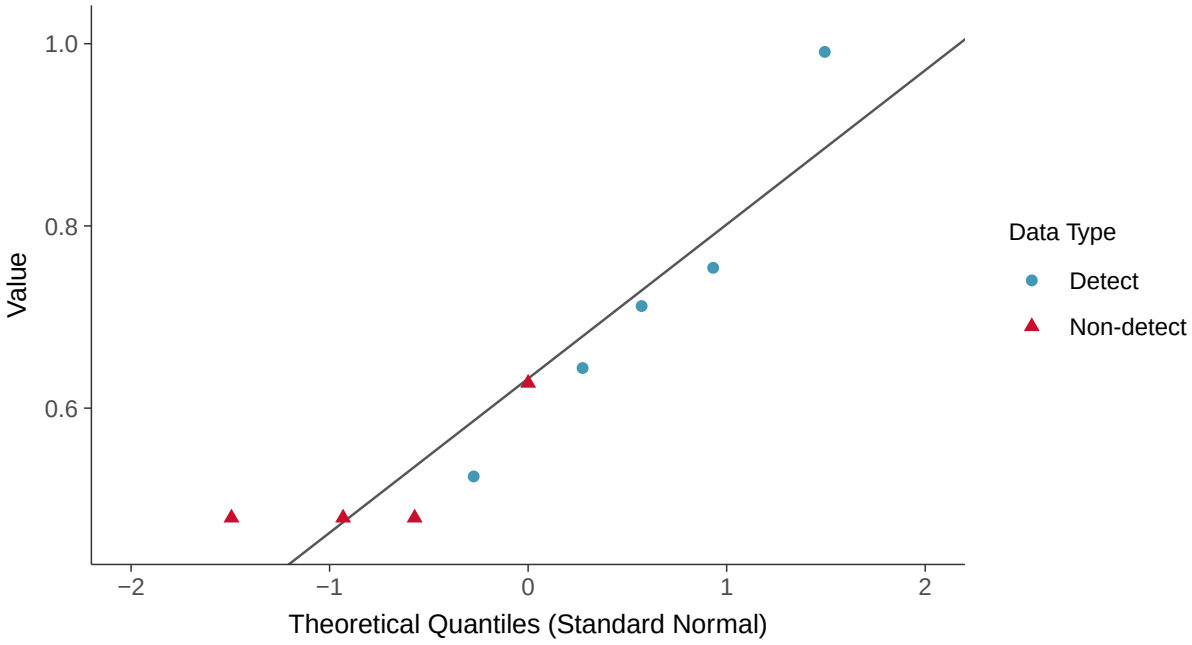
Boxplot by Season

Radium 226 and 228, MW-16 (pCi/L)



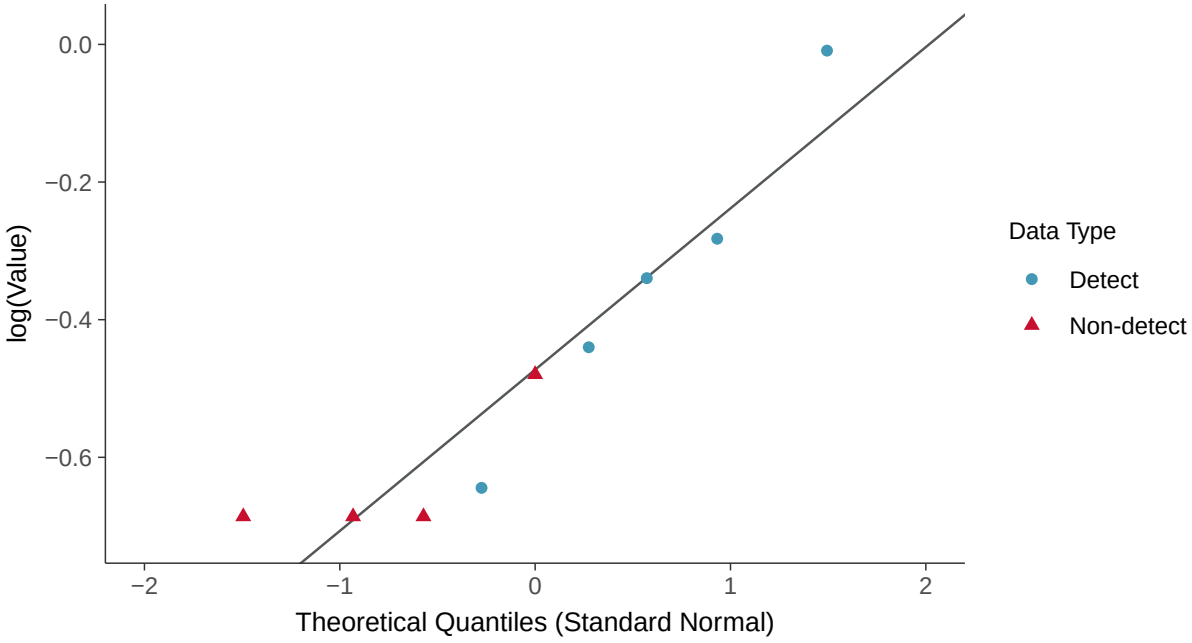
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-16 (pCi/L)



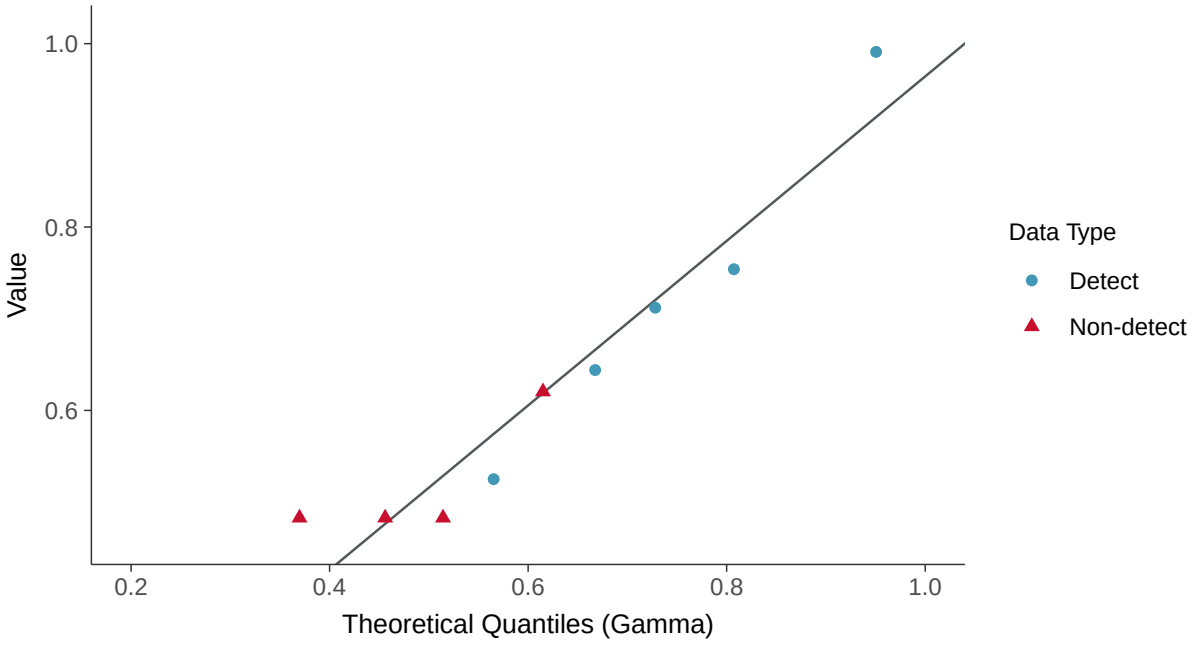
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-16 (pCi/L)



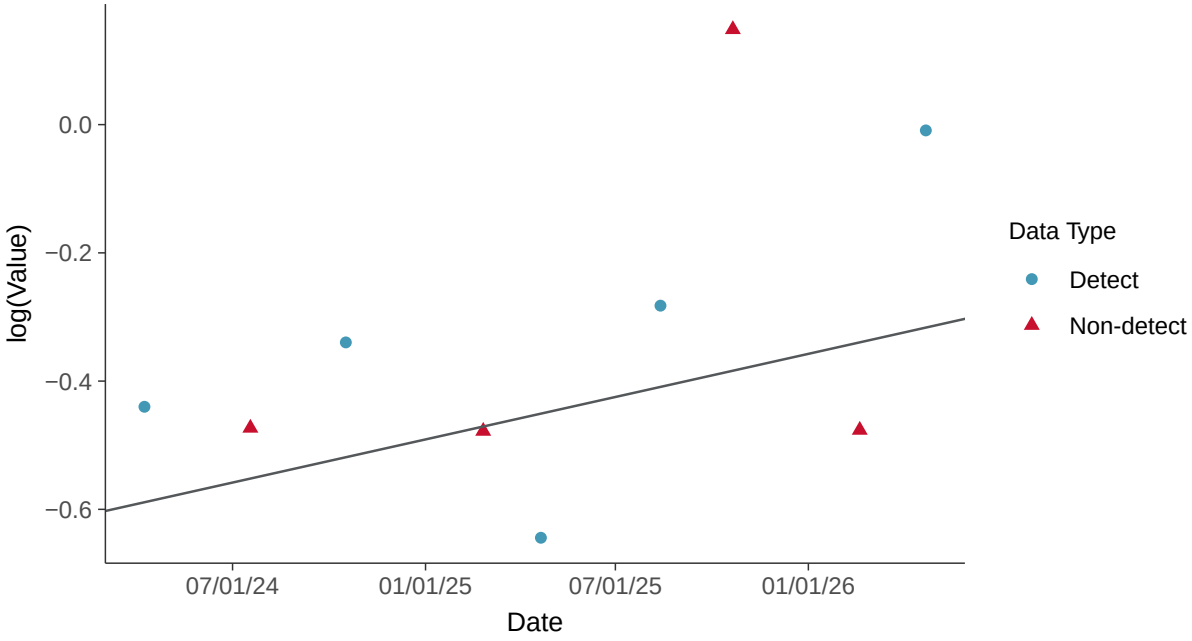
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-16 (pCi/L)



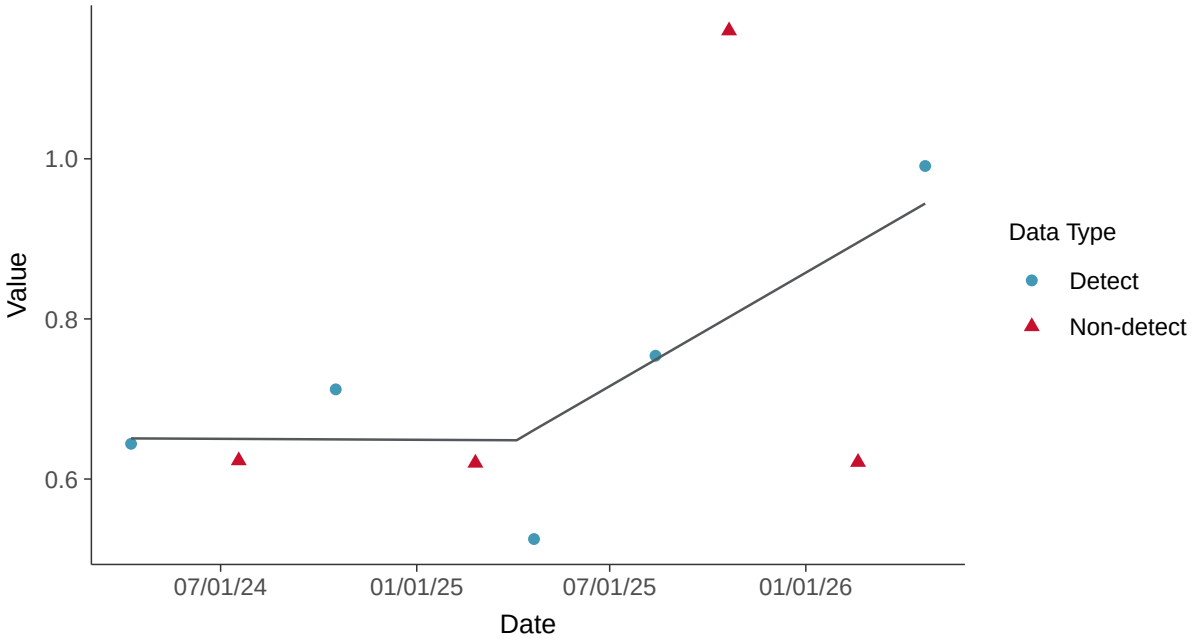
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-16 (pCi/L)



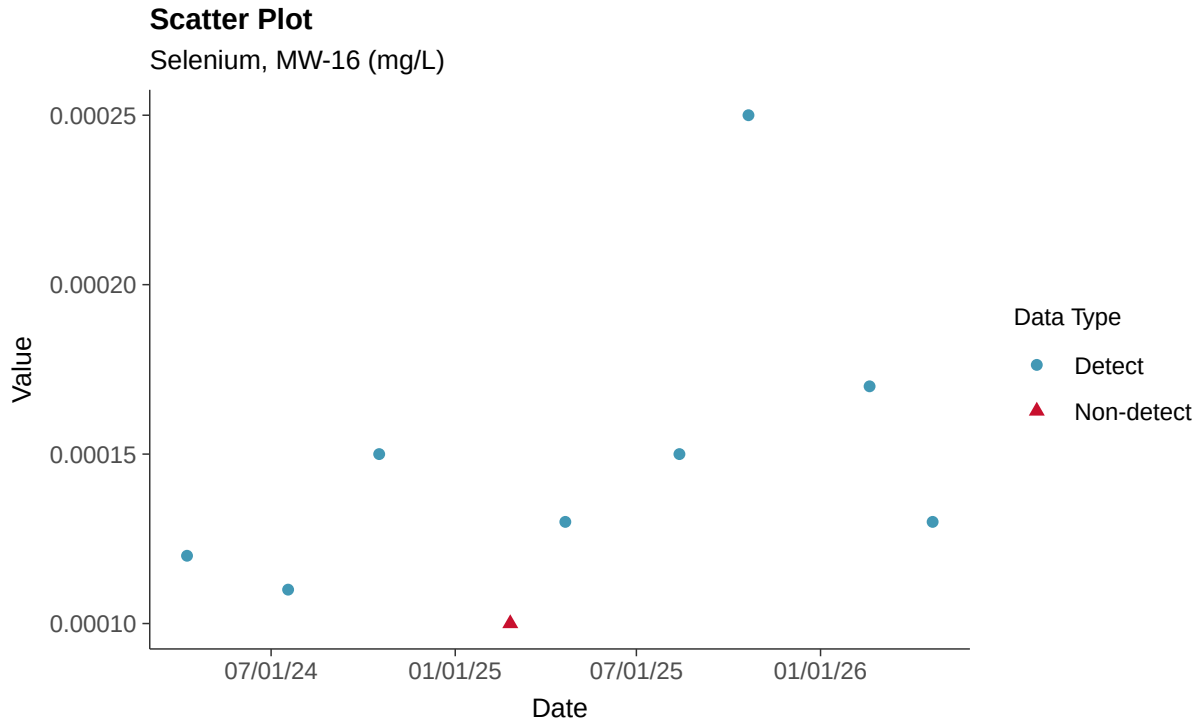
Trend Regression: Piecewise Linear-Linear

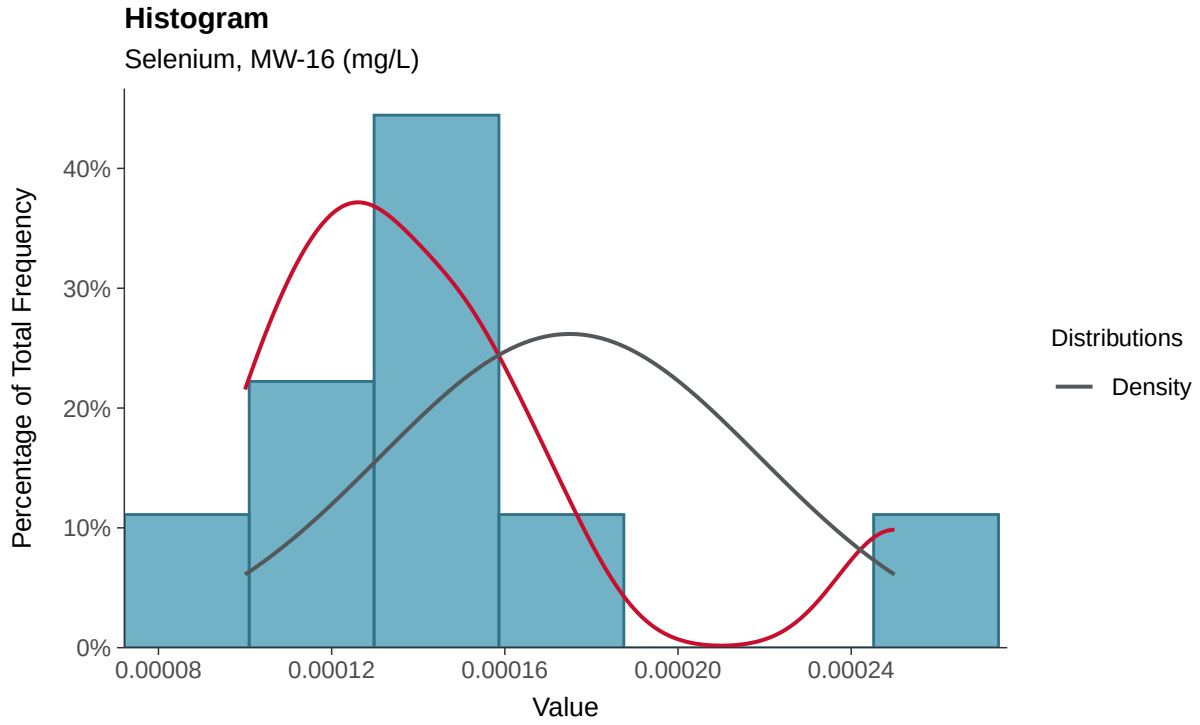
Radium 226 and 228, MW-16 (pCi/L)



Appendix IV: Selenium, MW-16

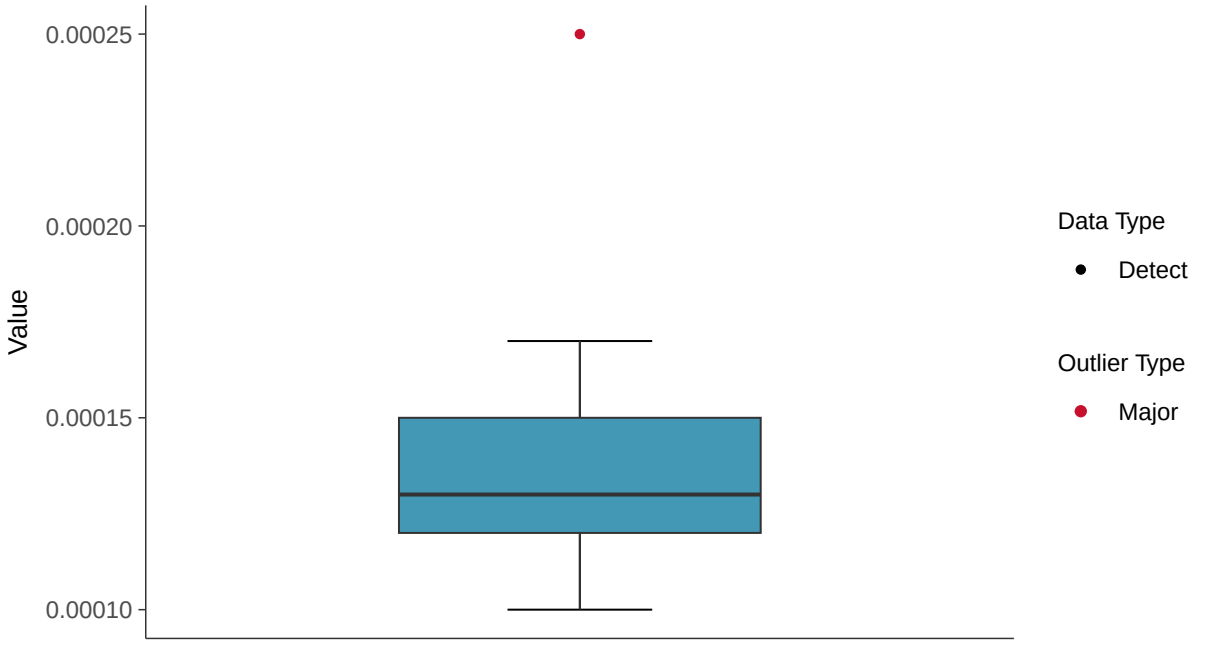
ID: 26_1_4_122





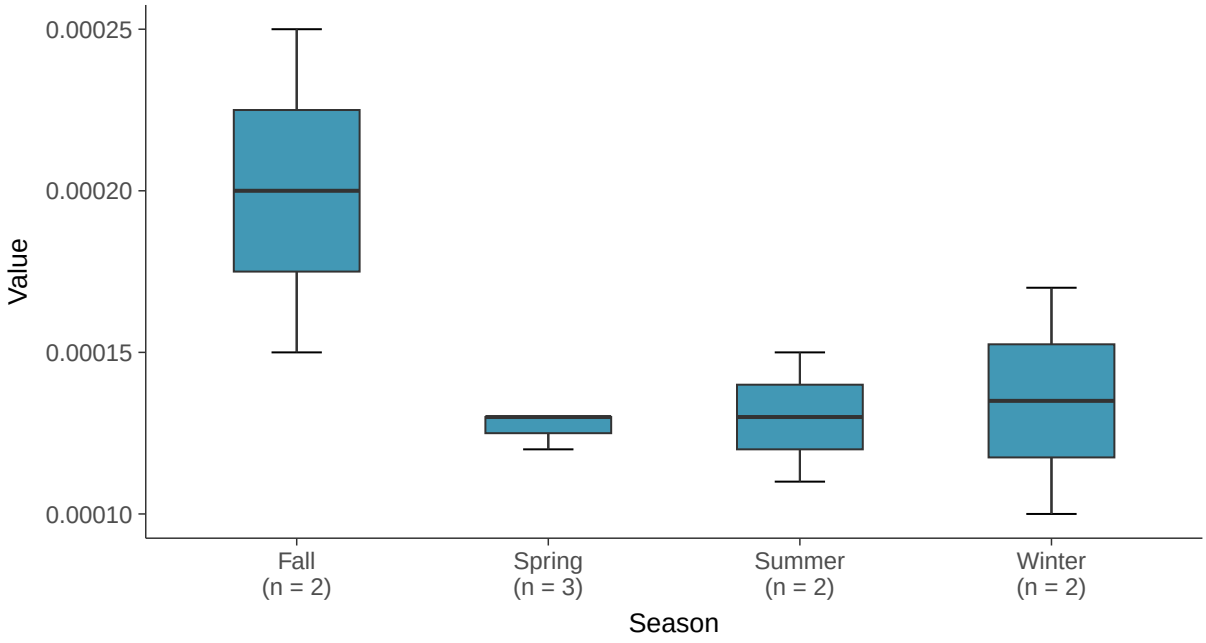
Boxplot

Selenium, MW-16 (mg/L)



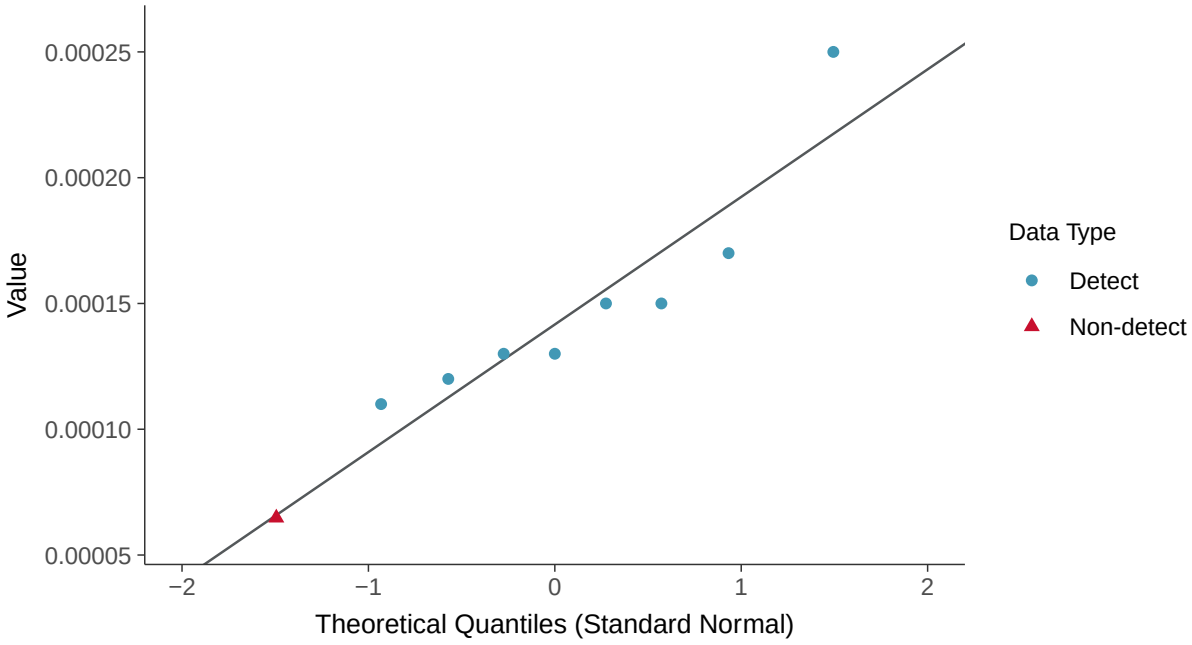
Boxplot by Season

Selenium, MW-16 (mg/L)



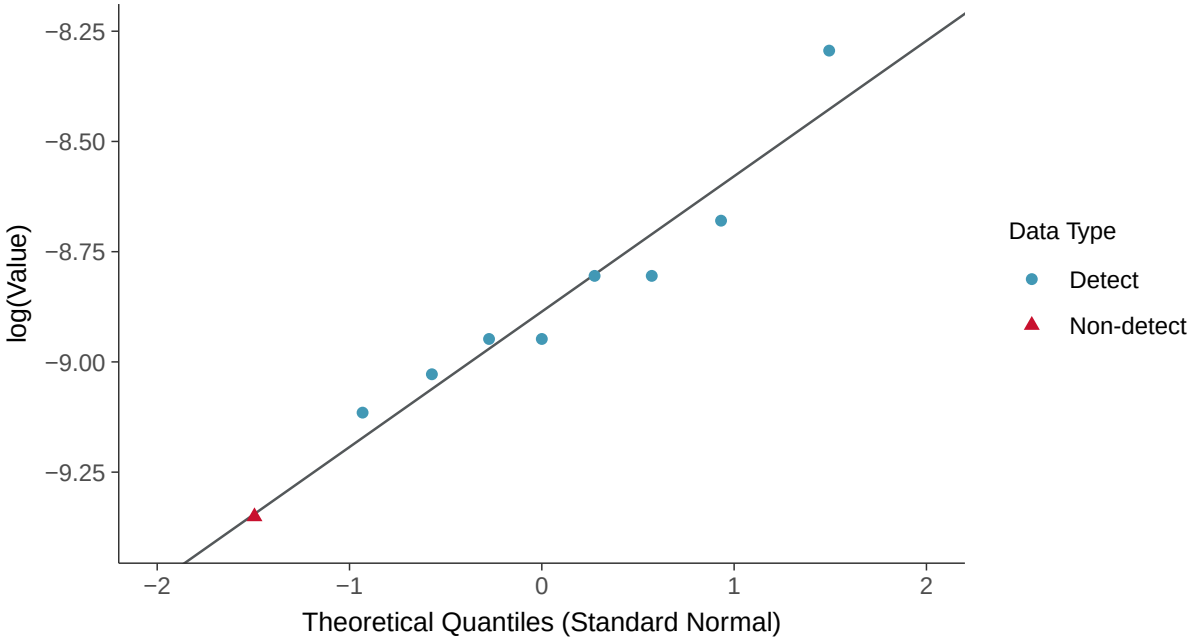
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-16 (mg/L)



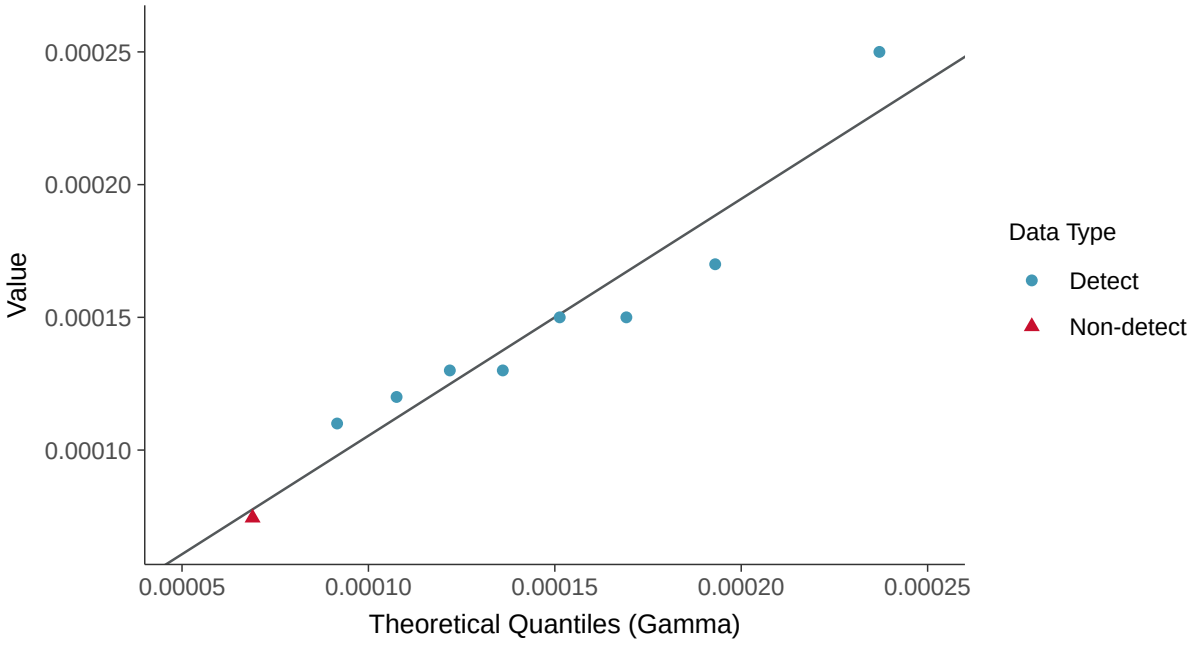
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-16 (mg/L)



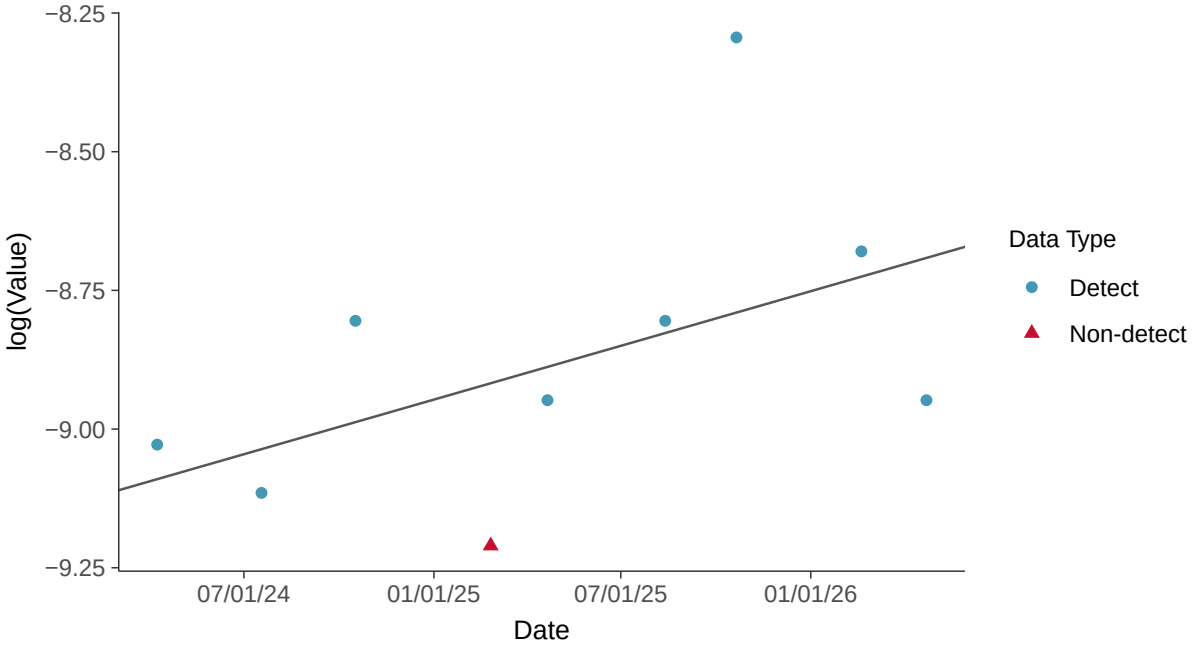
Gamma Q-Q plot using ROS Imputed Estimates

Selenium, MW-16 (mg/L)



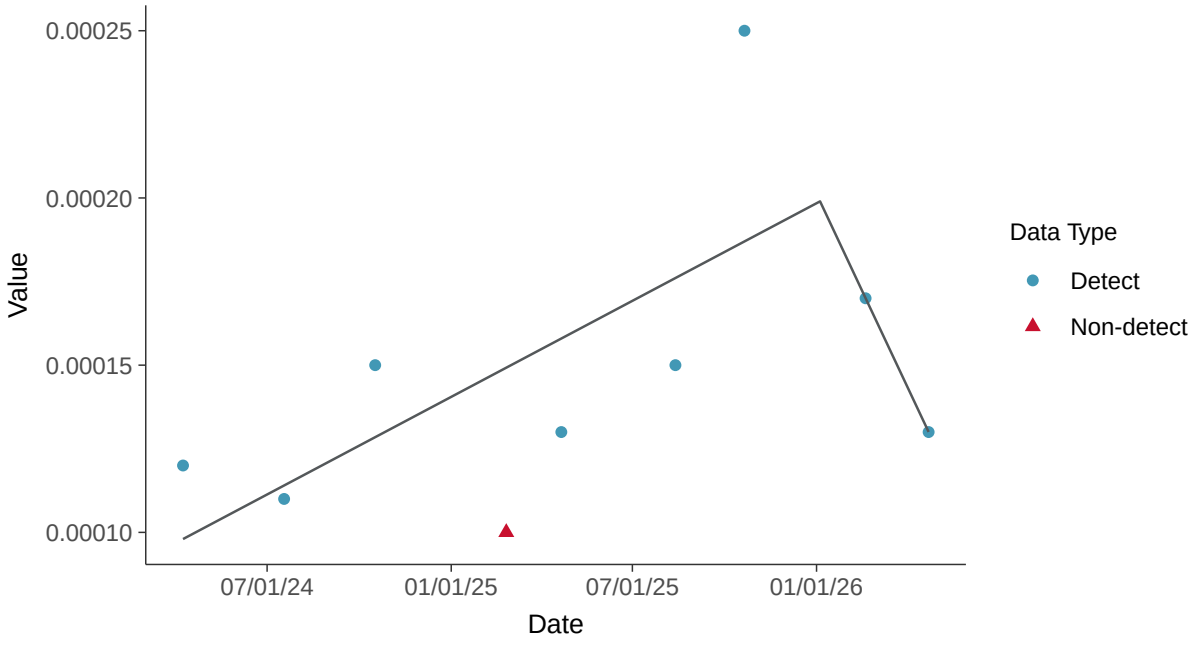
Trend Regression: Lognormal MLE

Selenium, MW-16 (mg/L)



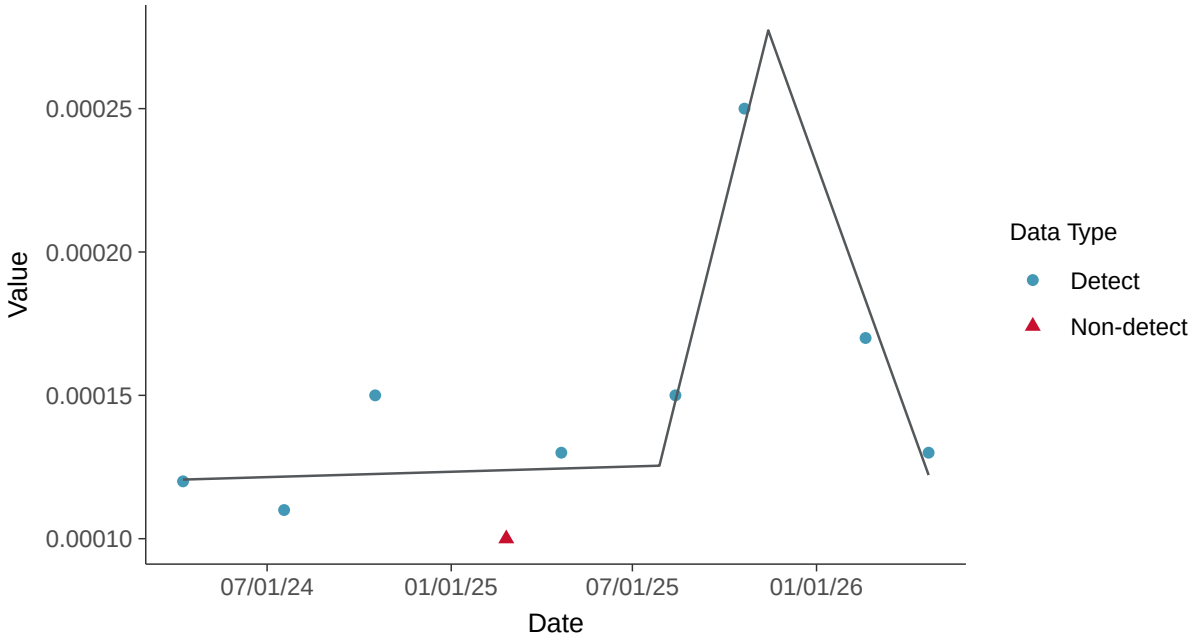
Trend Regression: Piecewise Linear-Linear

Selenium, MW-16 (mg/L)



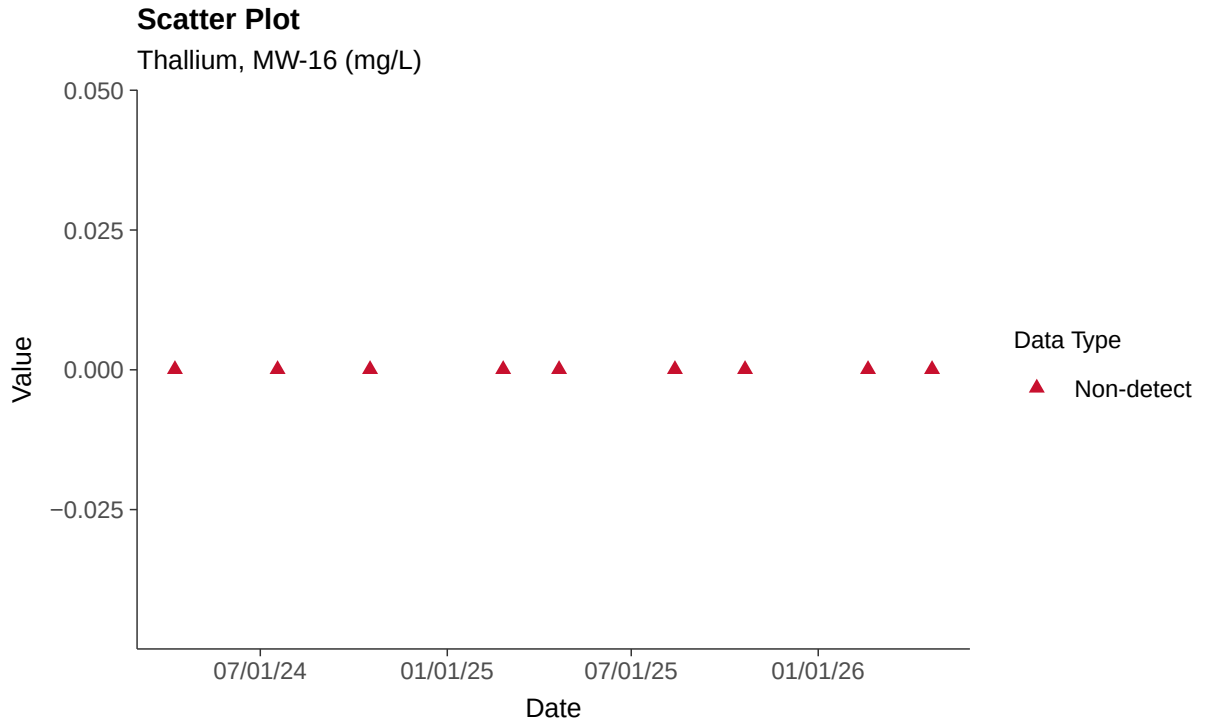
Trend Regression: Piecewise Linear-Linear-Linear

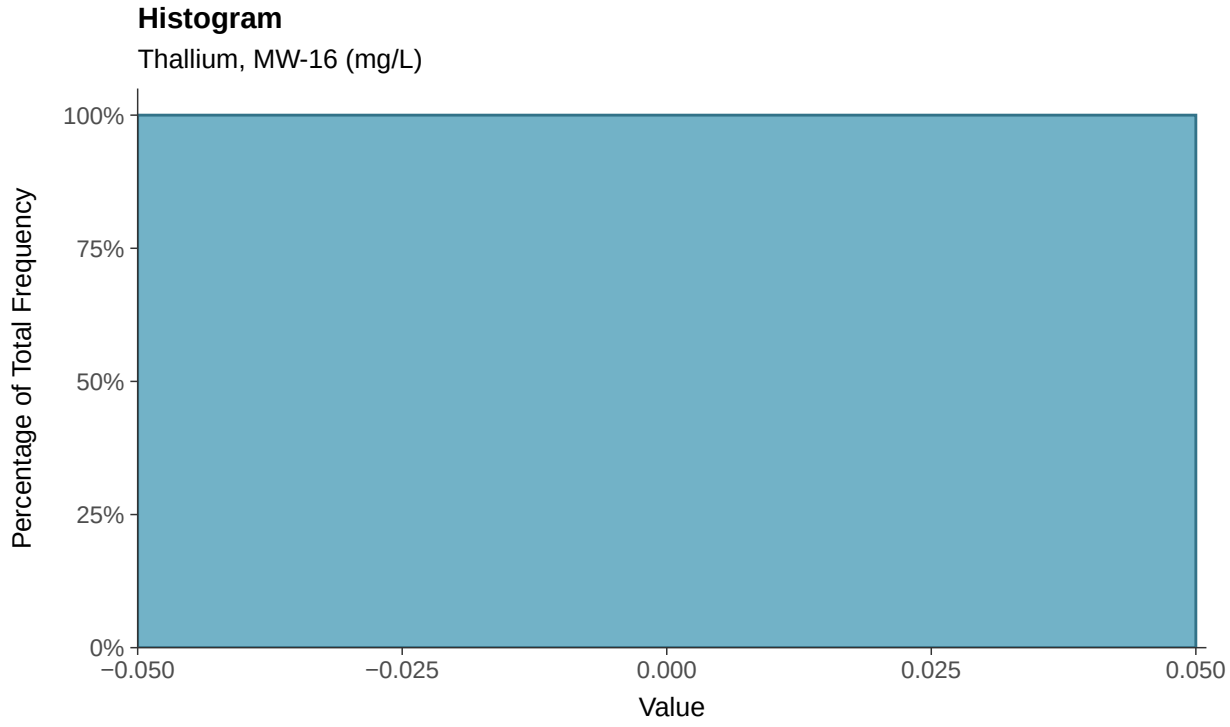
Selenium, MW-16 (mg/L)



Appendix IV: Thallium, MW-16

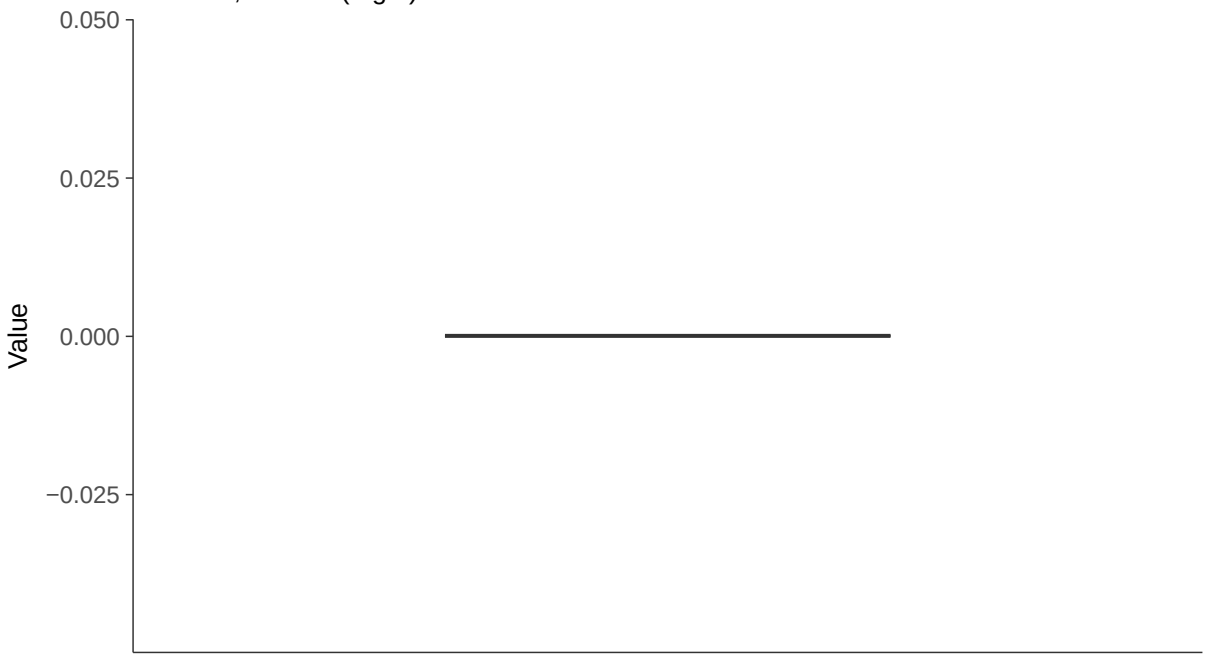
ID: 26_1_4_125





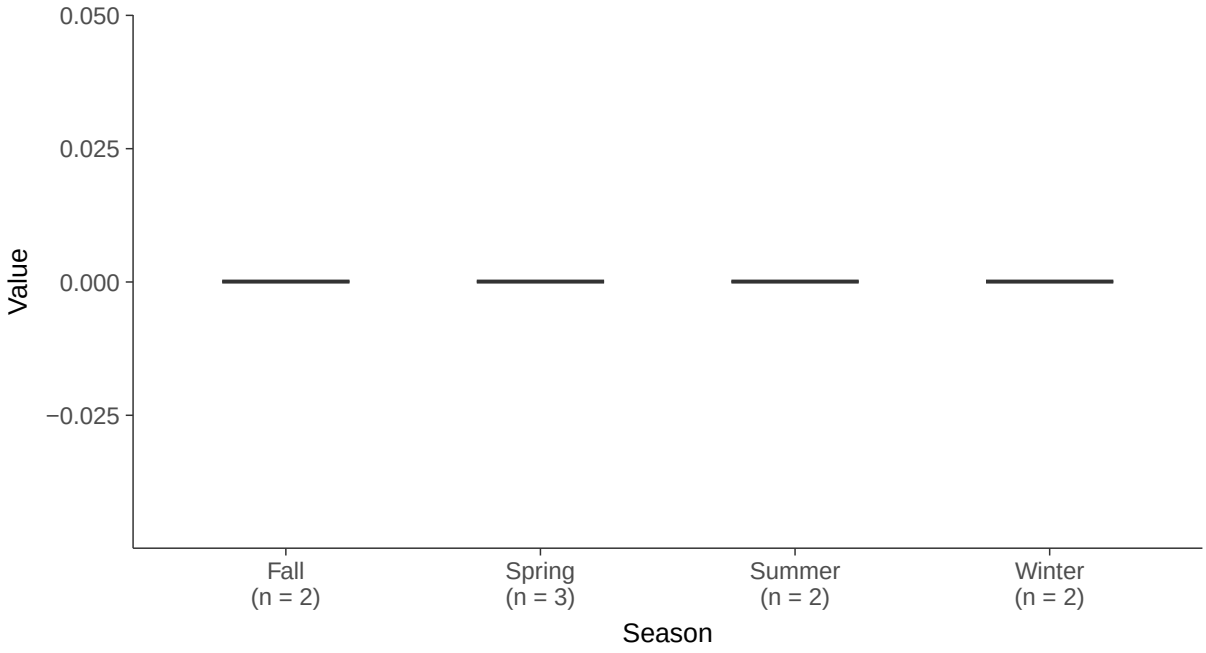
Boxplot

Thallium, MW-16 (mg/L)



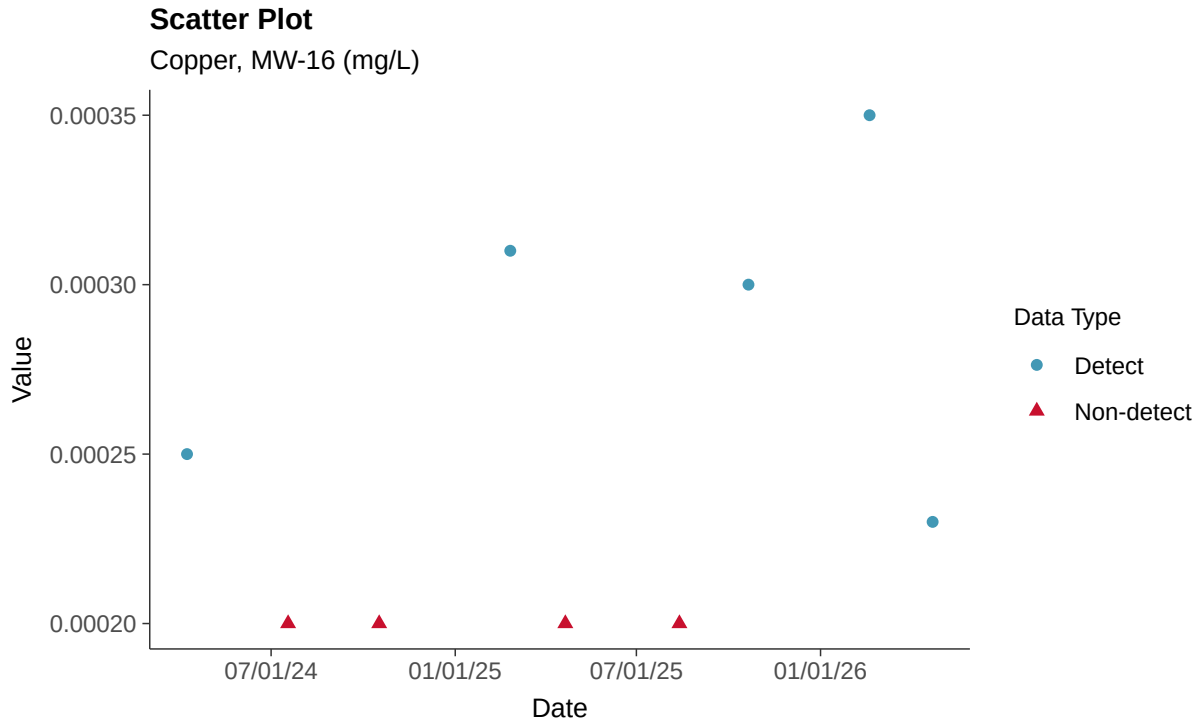
Boxplot by Season

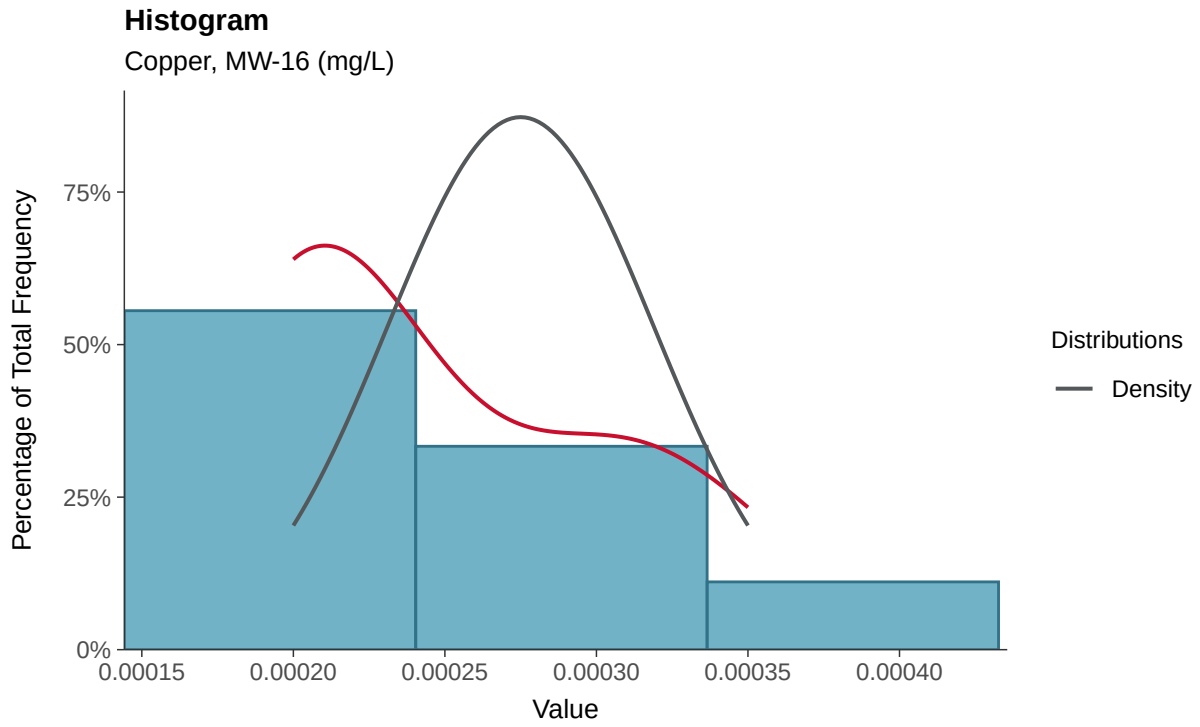
Thallium, MW-16 (mg/L)



Part 115: Copper, MW-16

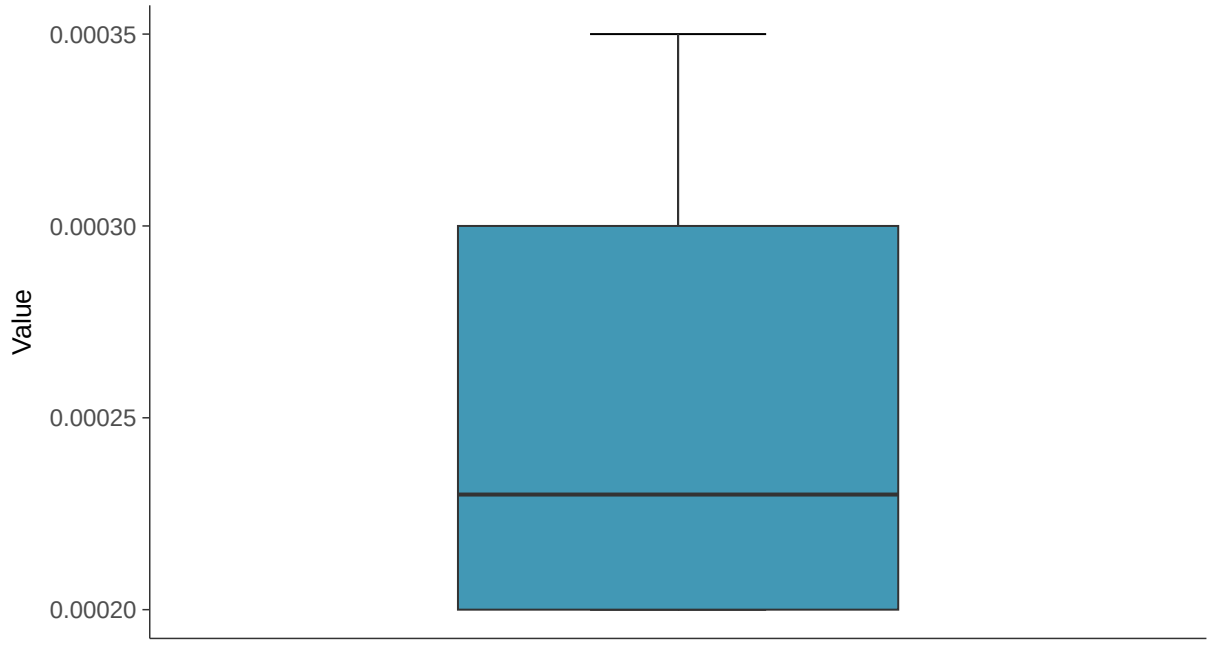
ID: 26_1_5_111





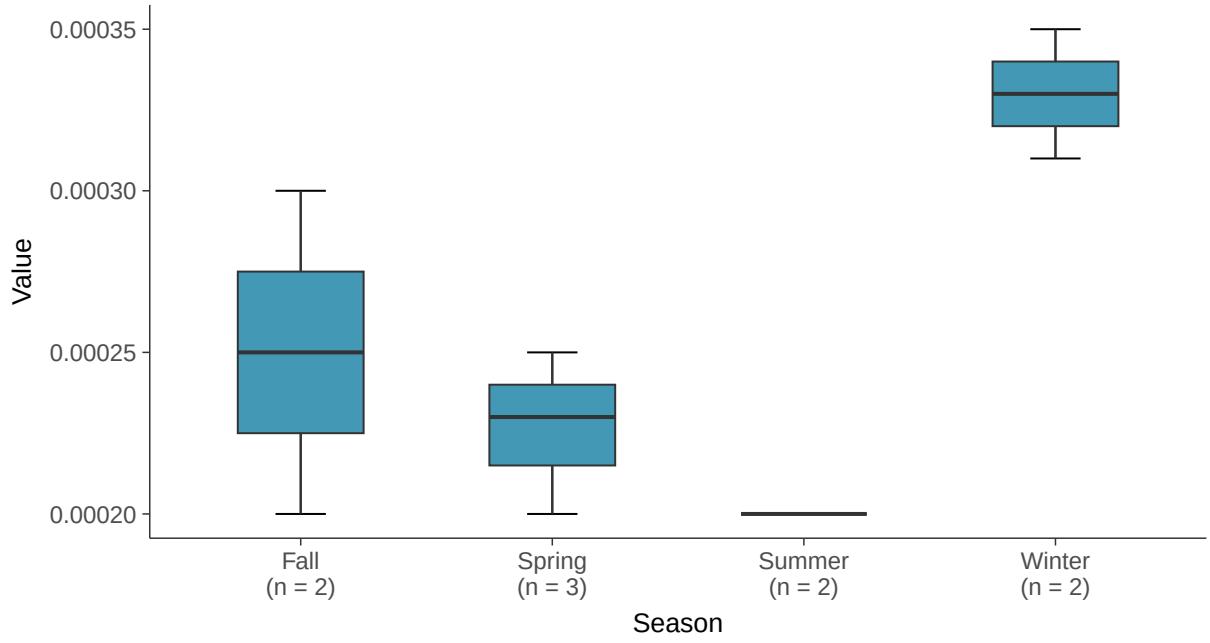
Boxplot

Copper, MW-16 (mg/L)



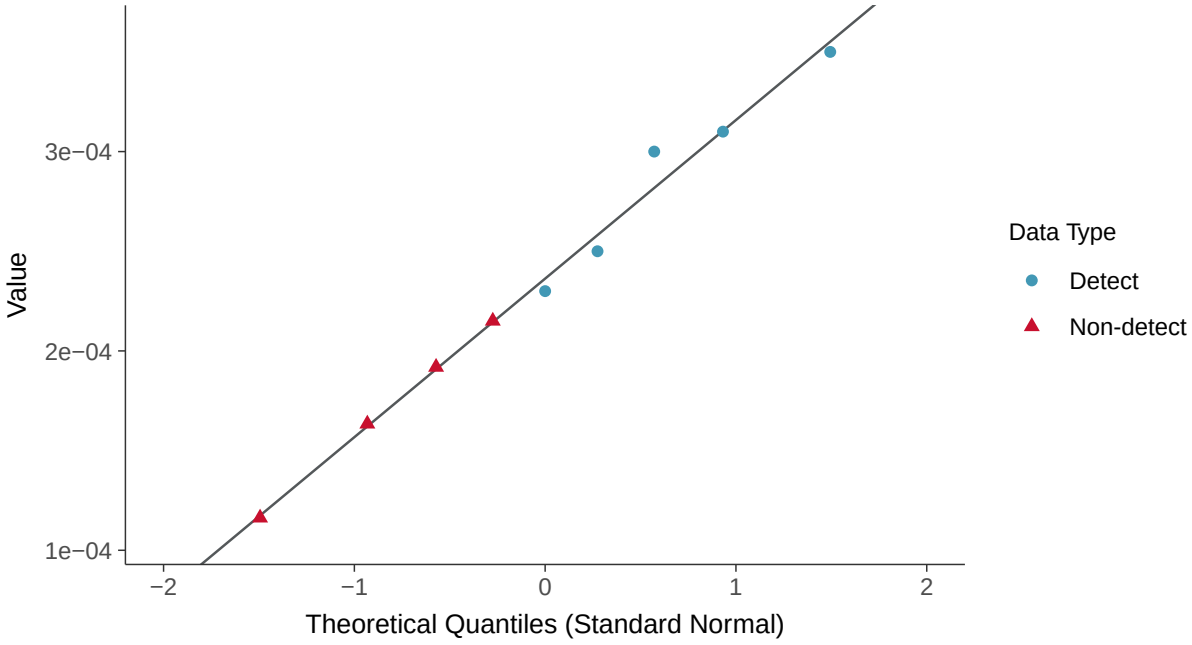
Boxplot by Season

Copper, MW-16 (mg/L)



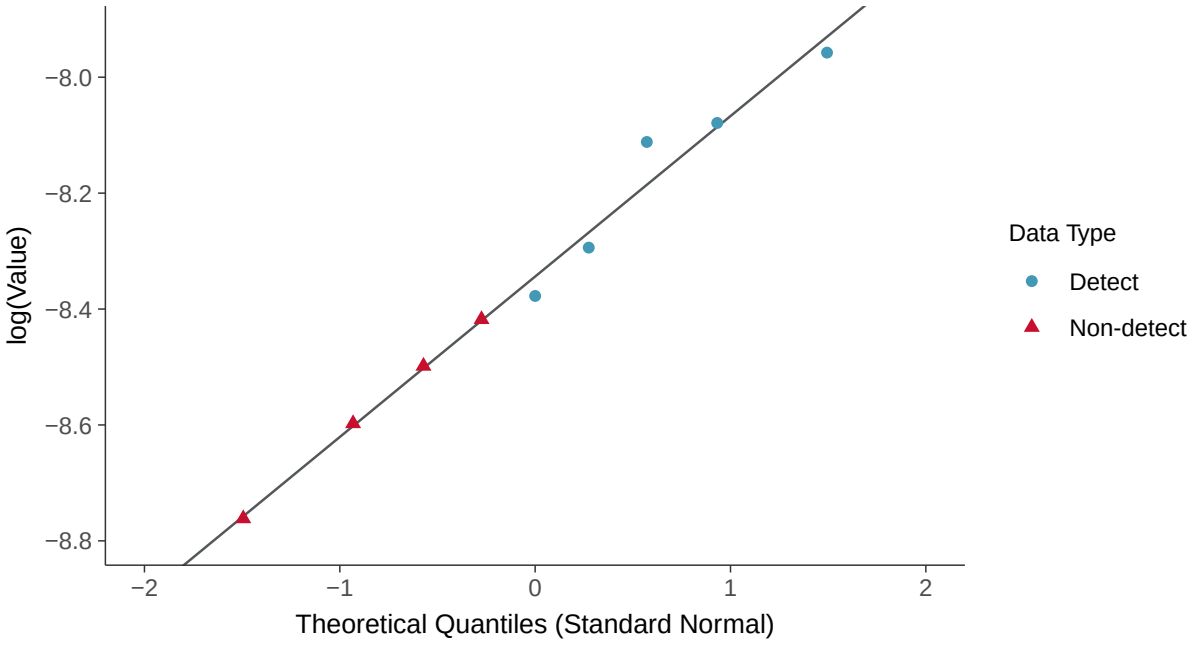
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-16 (mg/L)



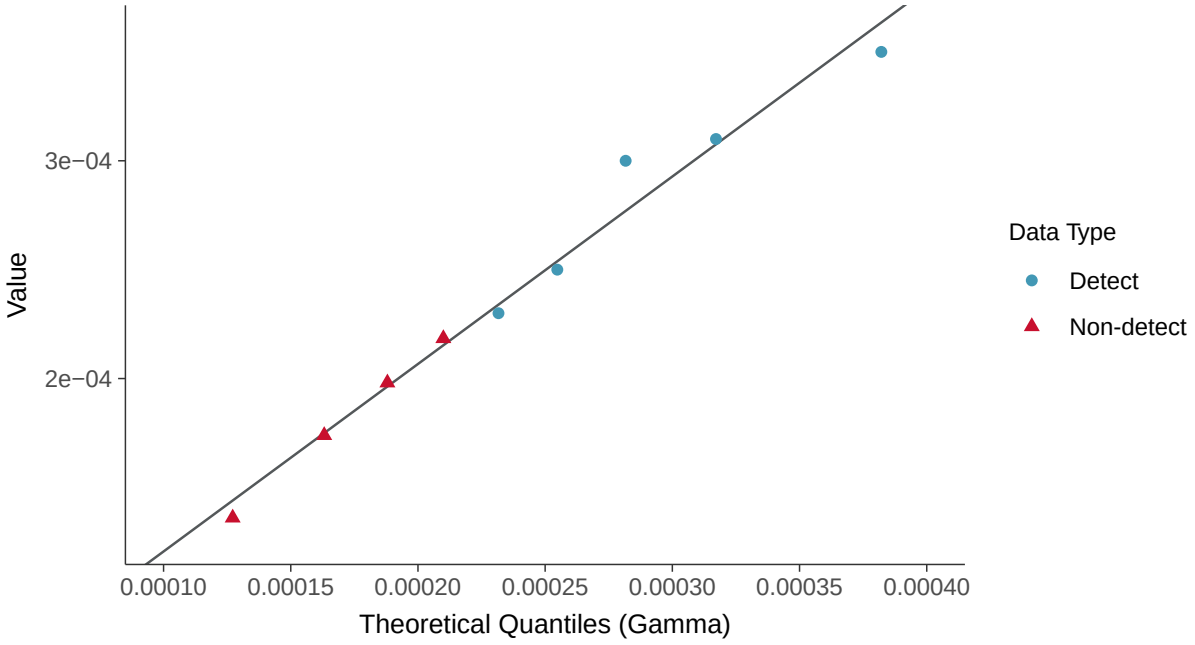
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-16 (mg/L)



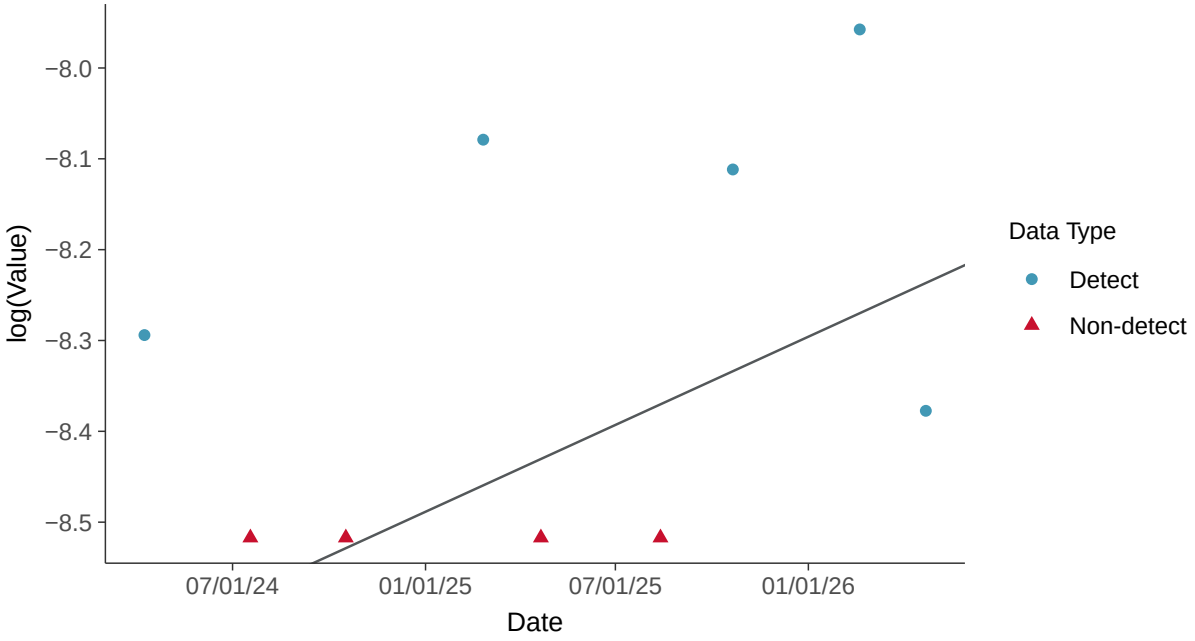
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-16 (mg/L)



Trend Regression: Lognormal MLE

Copper, MW-16 (mg/L)

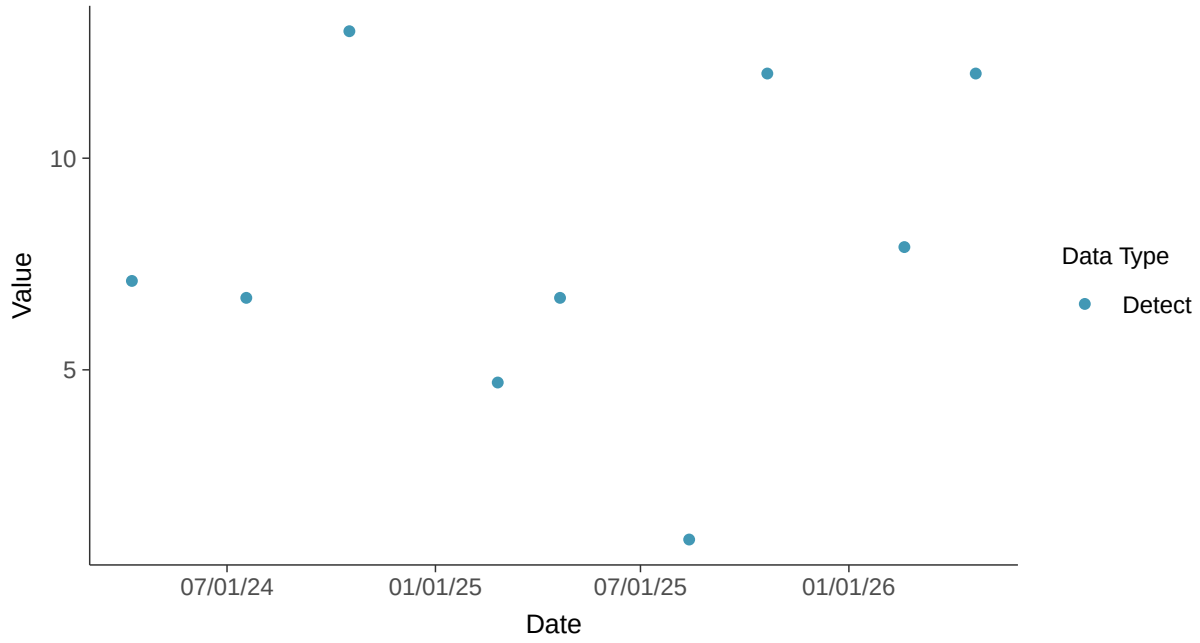


Part 115: Iron, MW-16

ID: 26_1_5_114

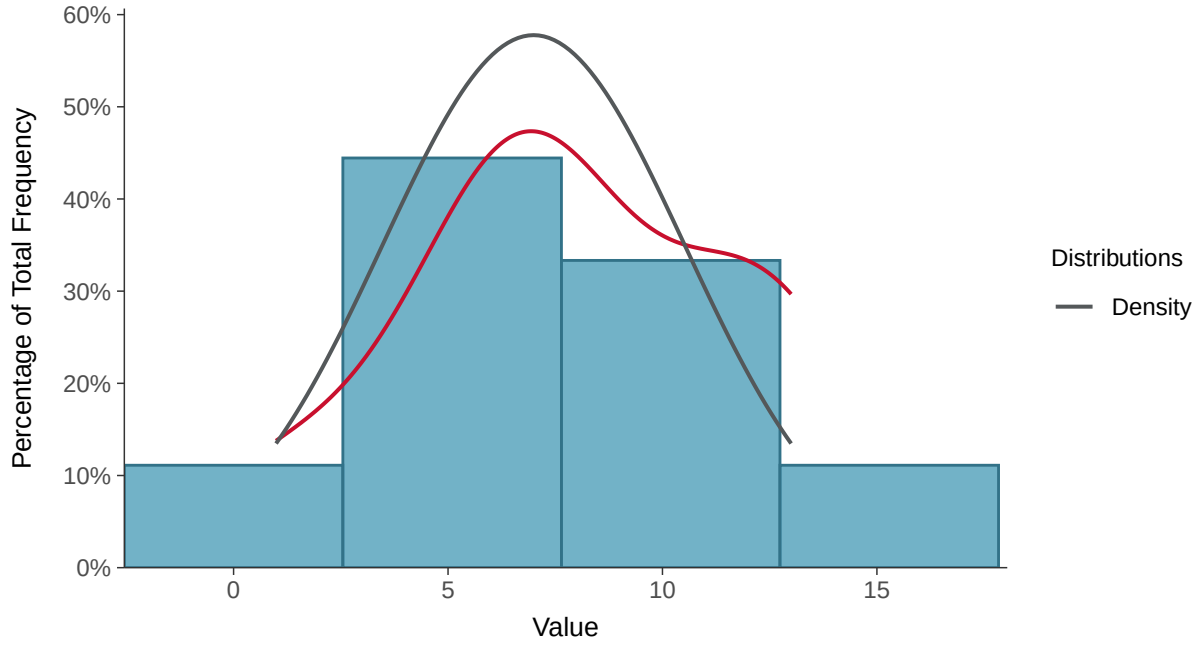
Scatter Plot

Iron, MW-16 (mg/L)



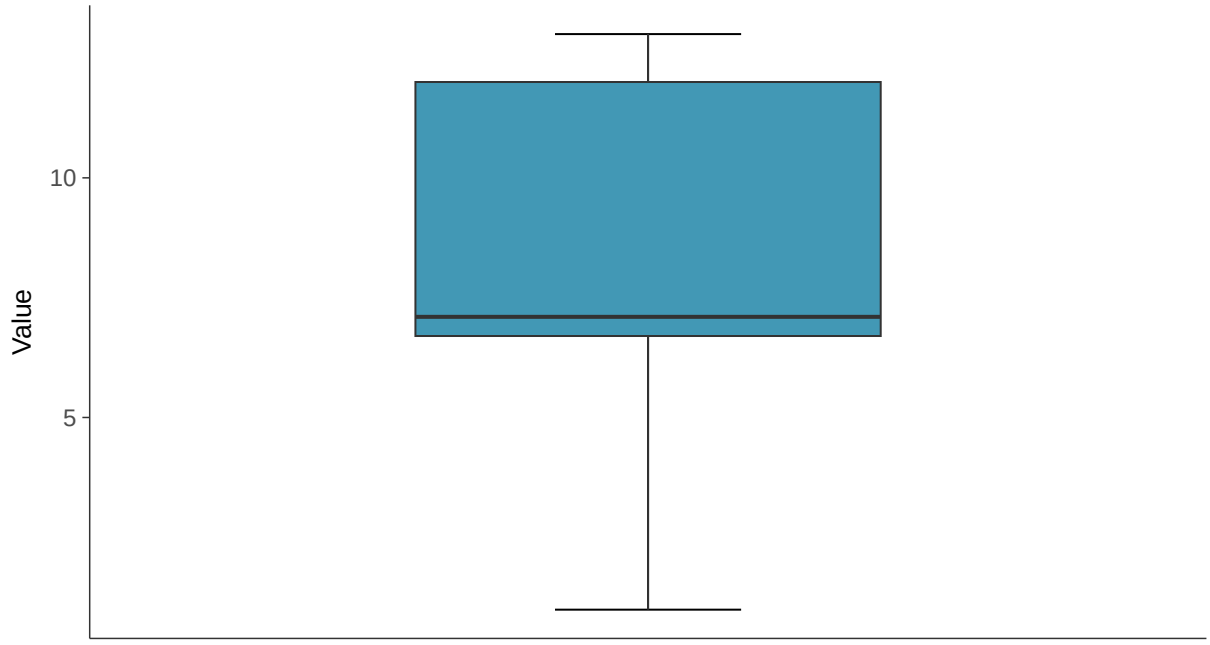
Histogram

Iron, MW-16 (mg/L)



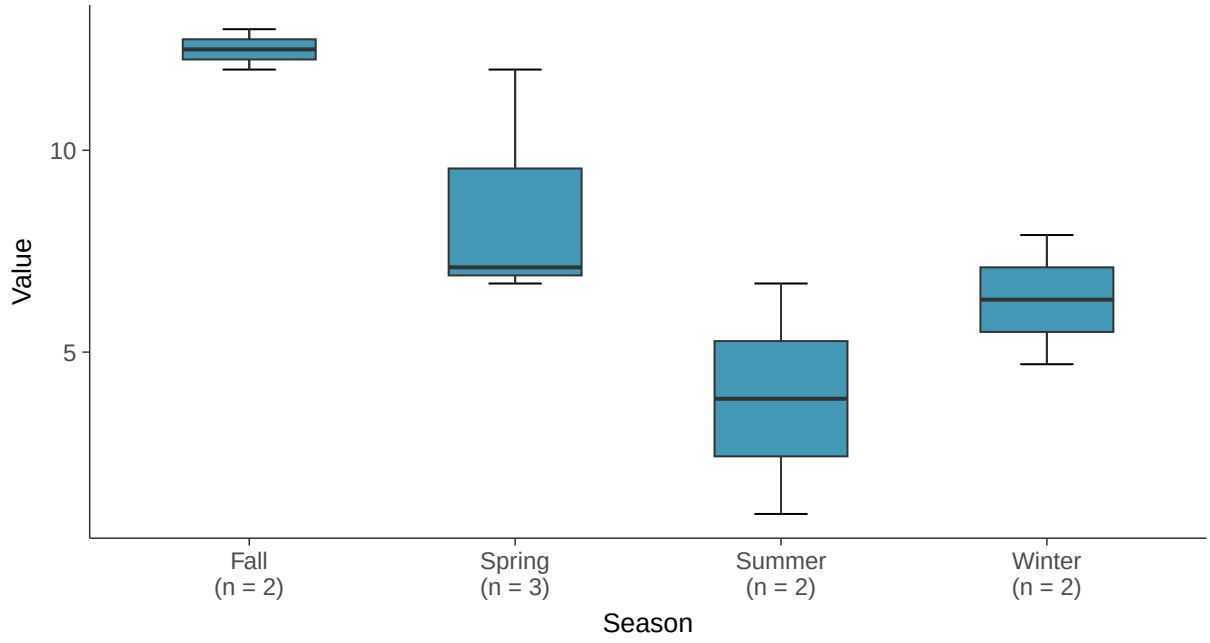
Boxplot

Iron, MW-16 (mg/L)



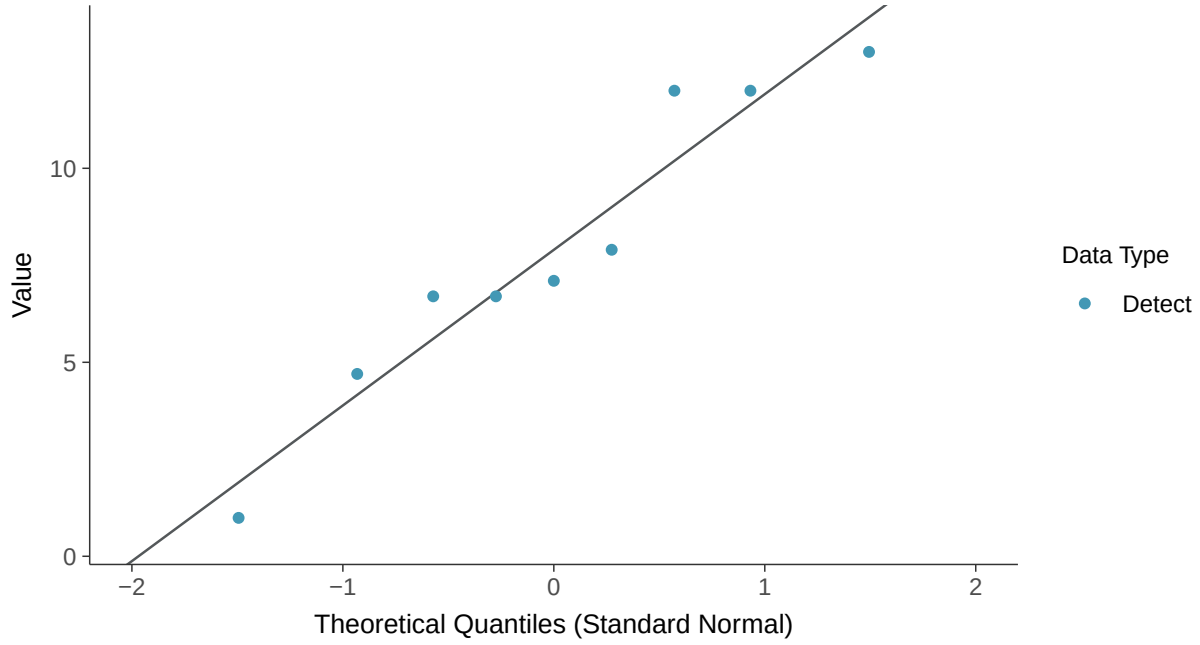
Boxplot by Season

Iron, MW-16 (mg/L)



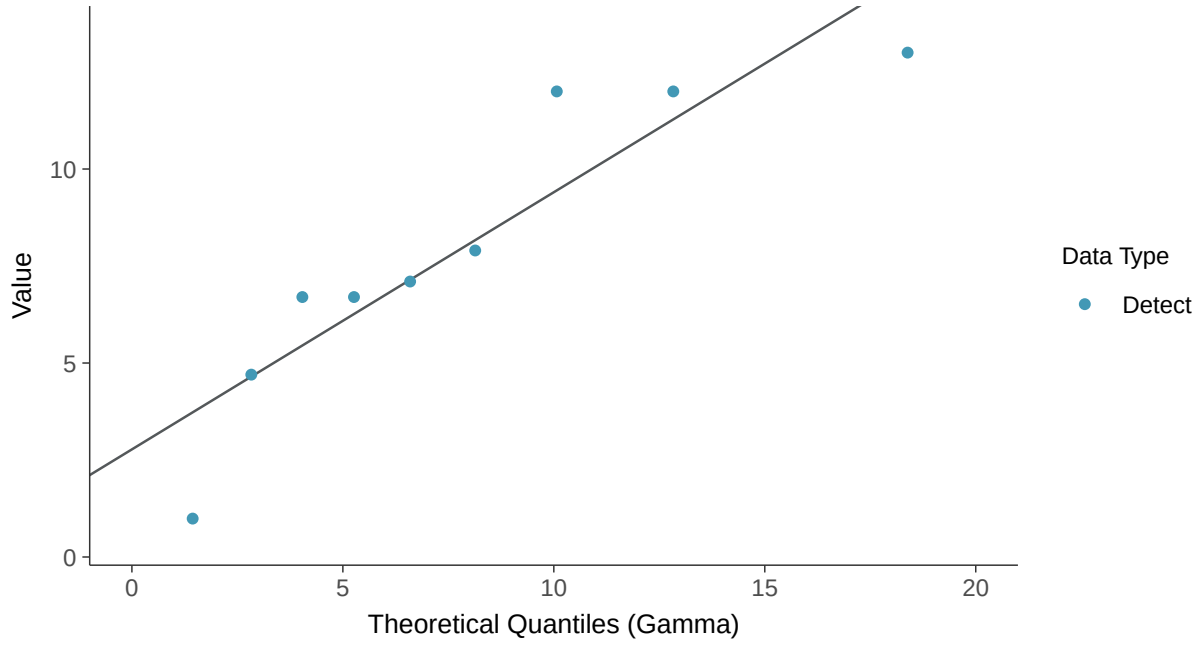
Normal Q-Q plot

Iron, MW-16 (mg/L)



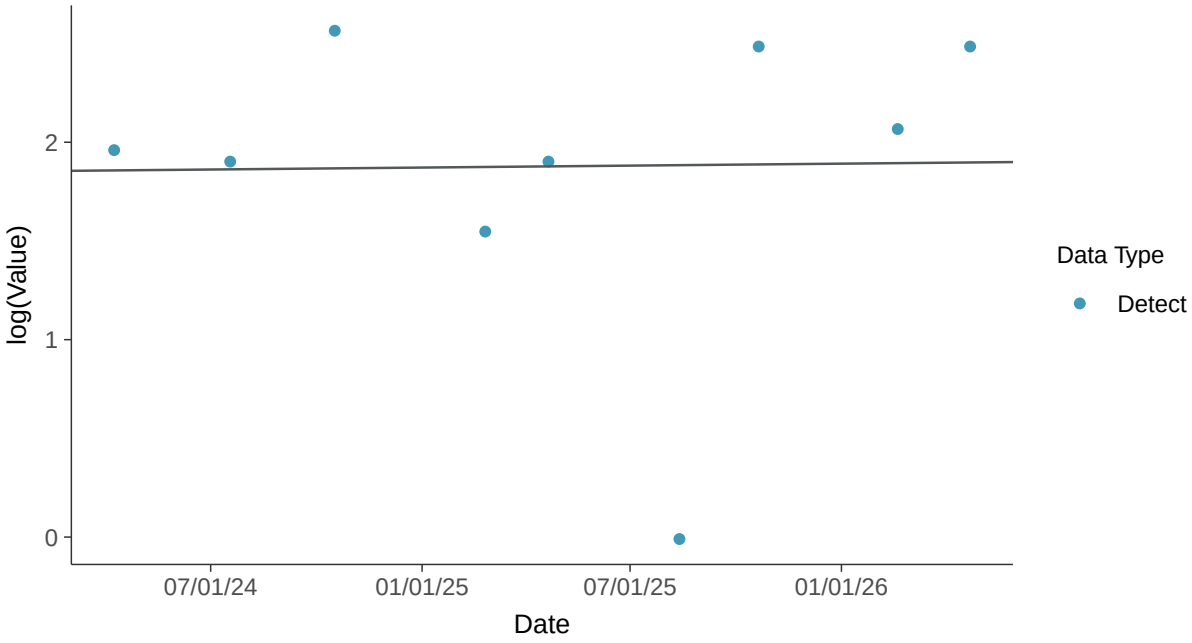
Gamma Q-Q plot

Iron, MW-16 (mg/L)



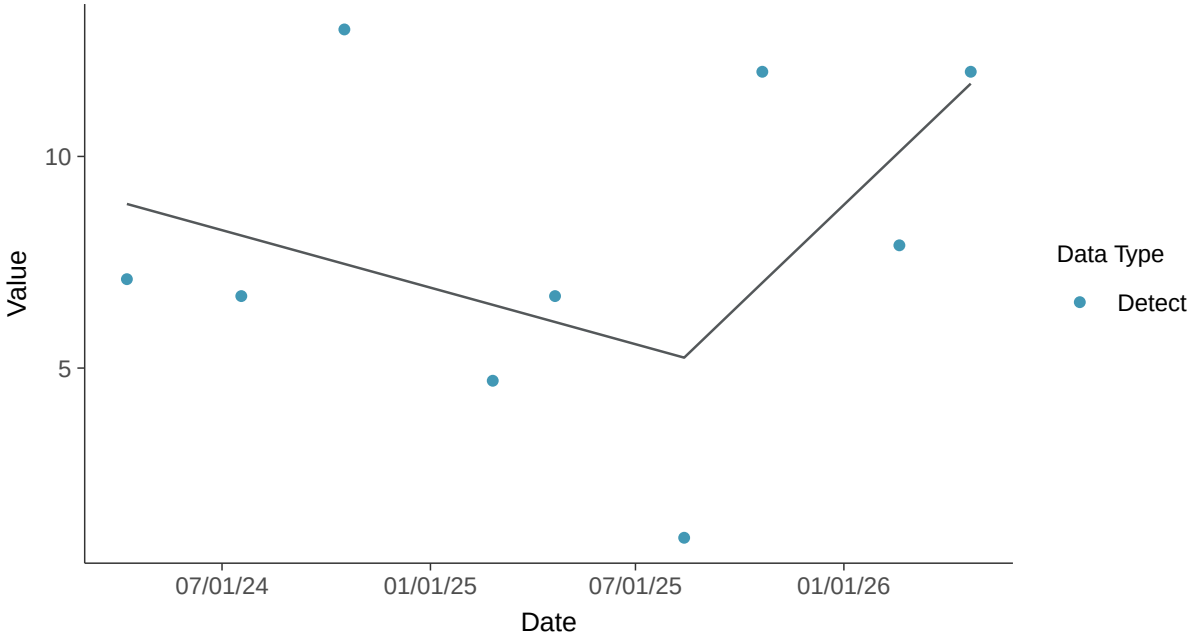
Trend Regression: Lognormal MLE

Iron, MW-16 (mg/L)



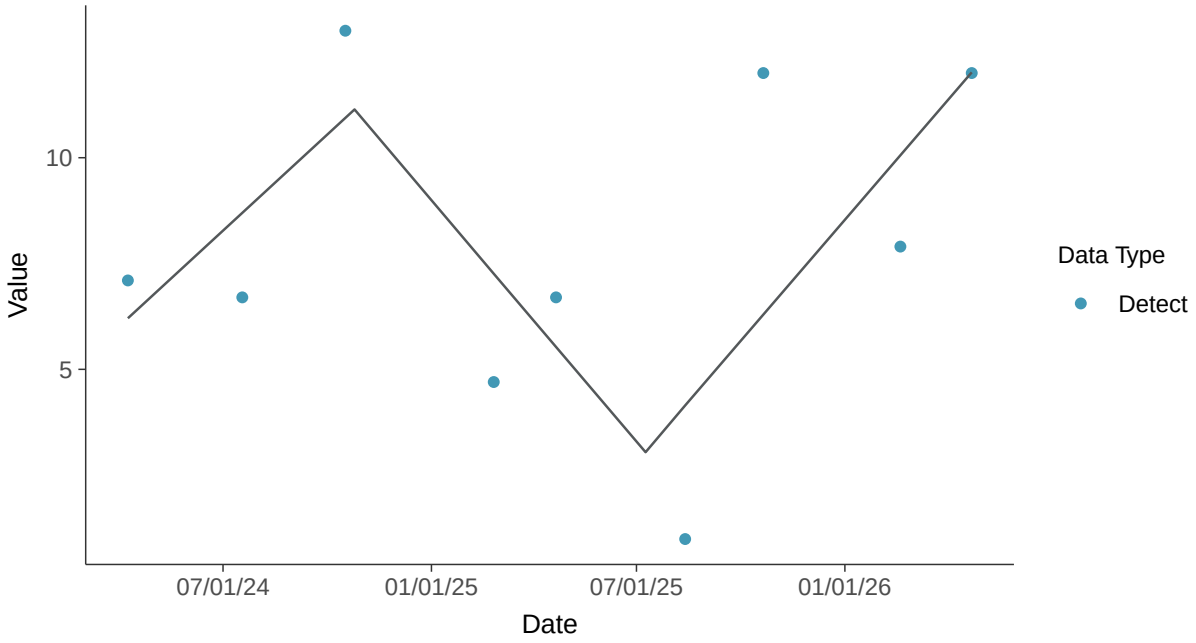
Trend Regression: Piecewise Linear-Linear

Iron, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-16 (mg/L)

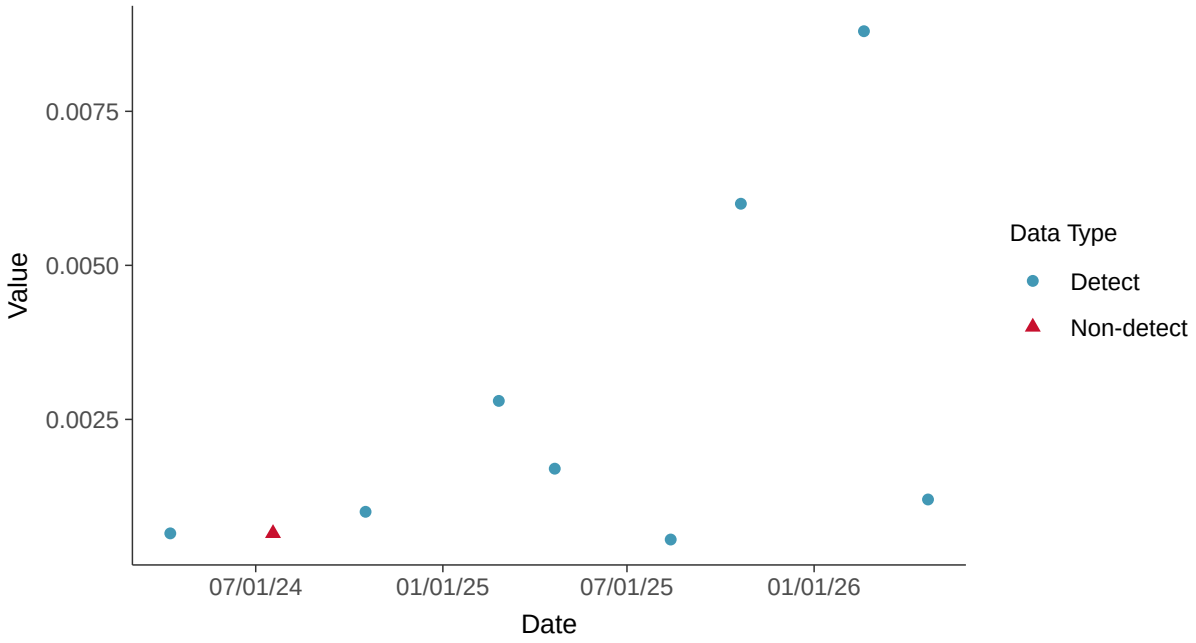


Part 115: Nickel, MW-16

ID: 26_1_5_119

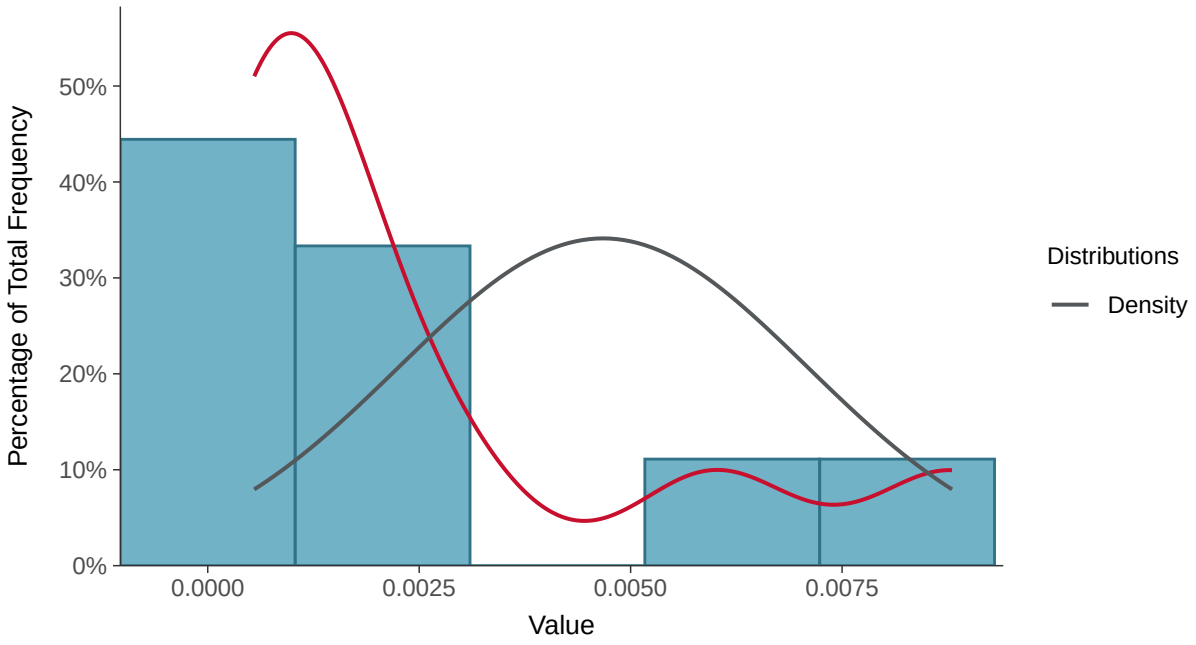
Scatter Plot

Nickel, MW-16 (mg/L)



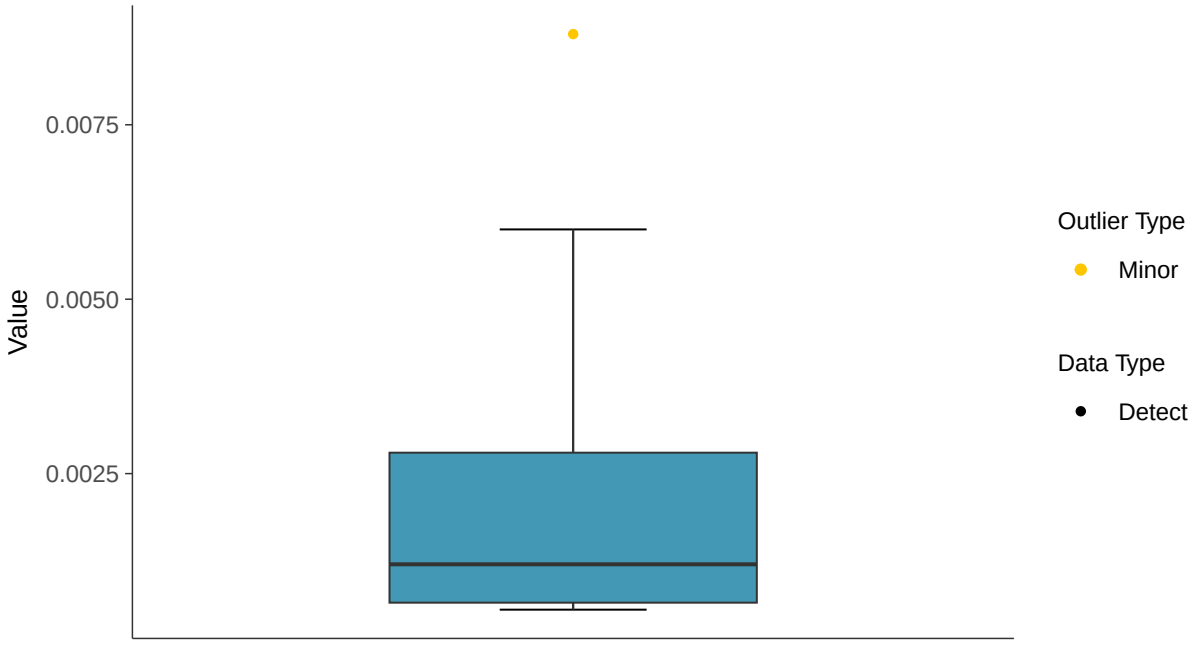
Histogram

Nickel, MW-16 (mg/L)



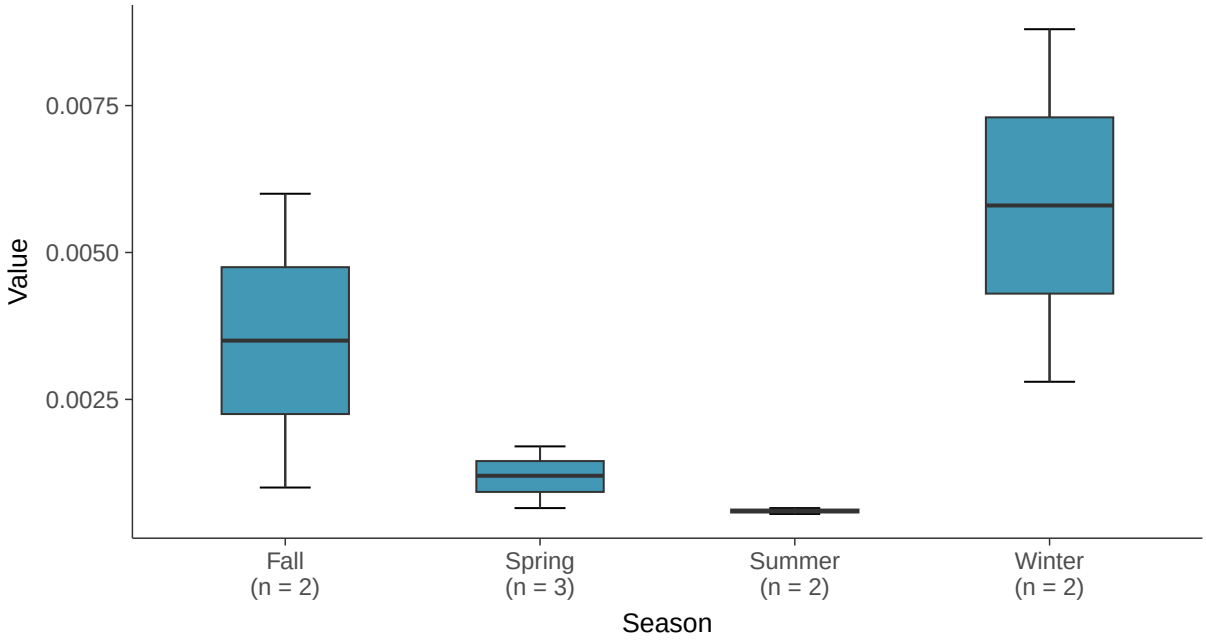
Boxplot

Nickel, MW-16 (mg/L)



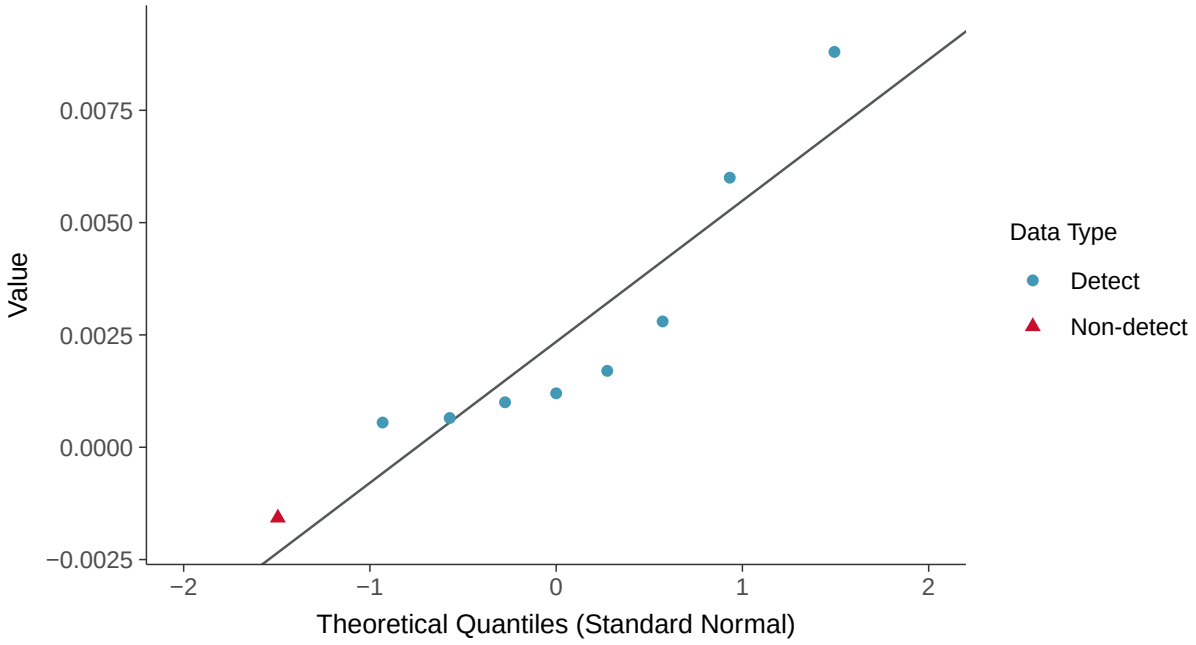
Boxplot by Season

Nickel, MW-16 (mg/L)



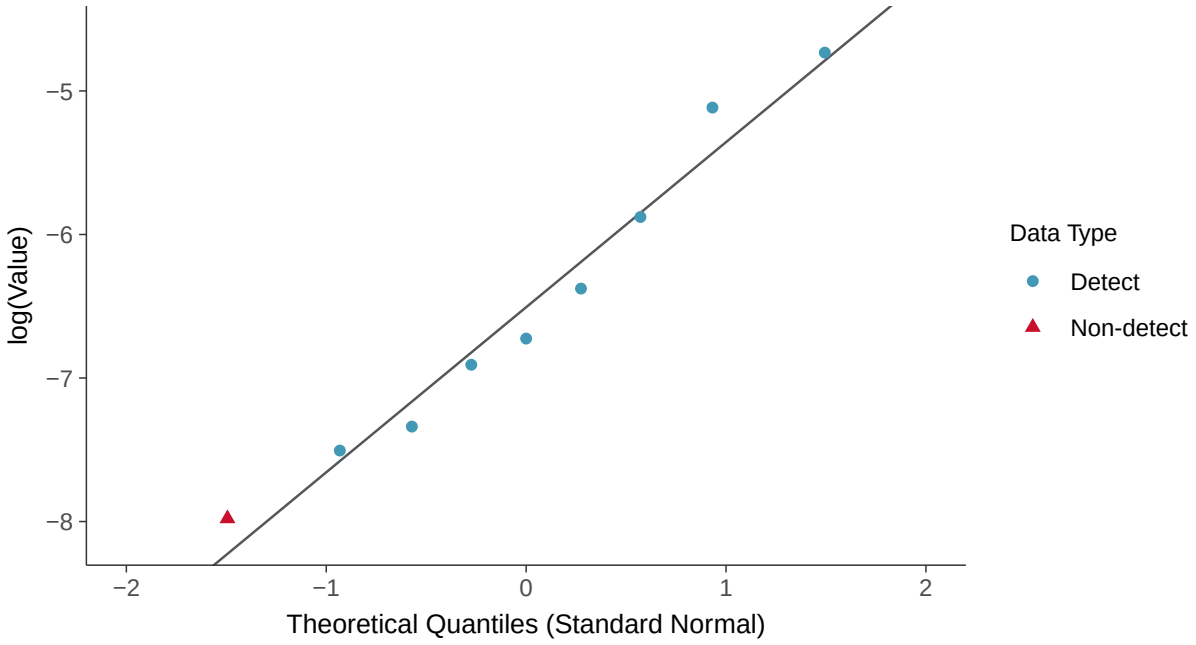
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-16 (mg/L)



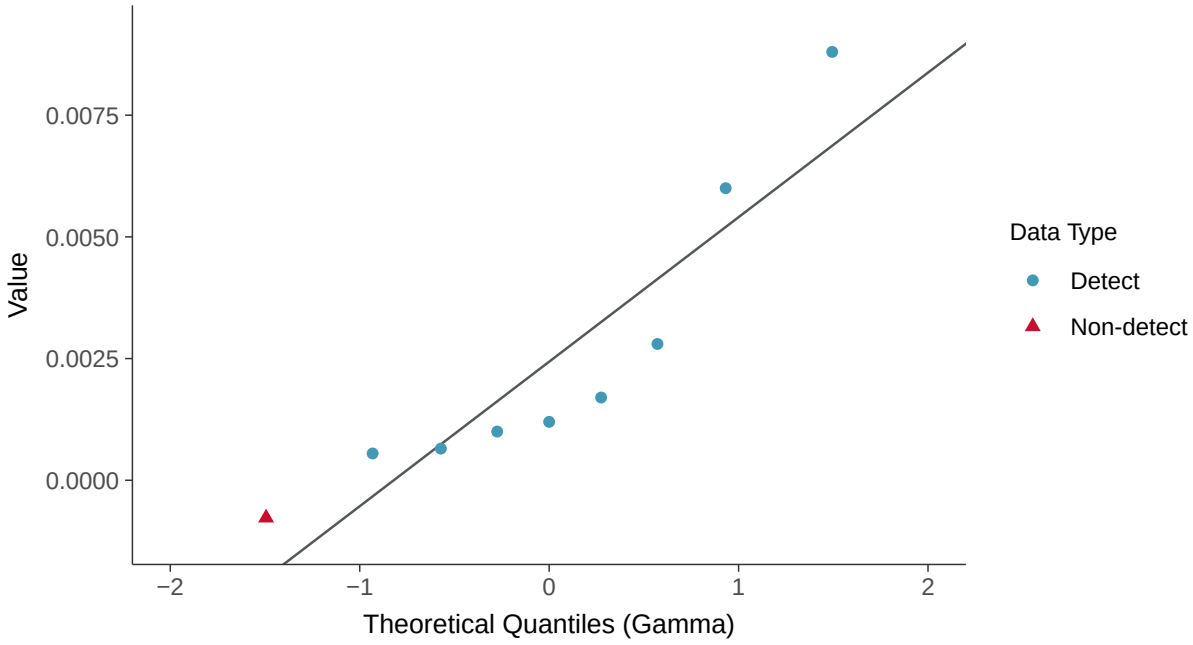
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-16 (mg/L)



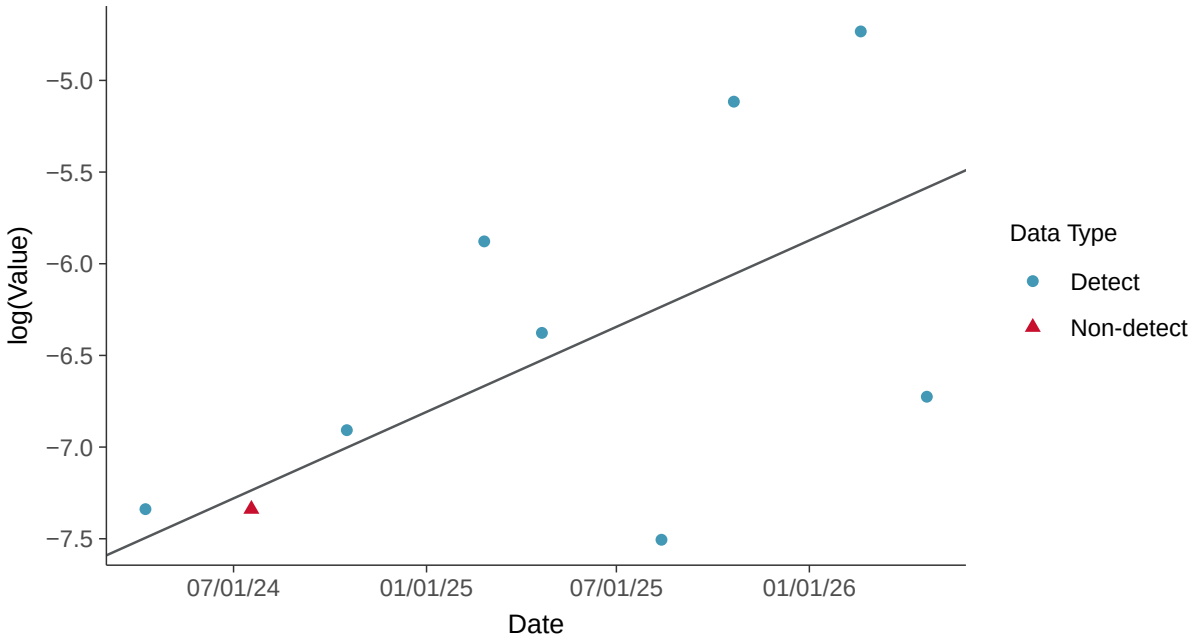
Gamma Q-Q plot using ROS Imputed Estimates

Nickel, MW-16 (mg/L)



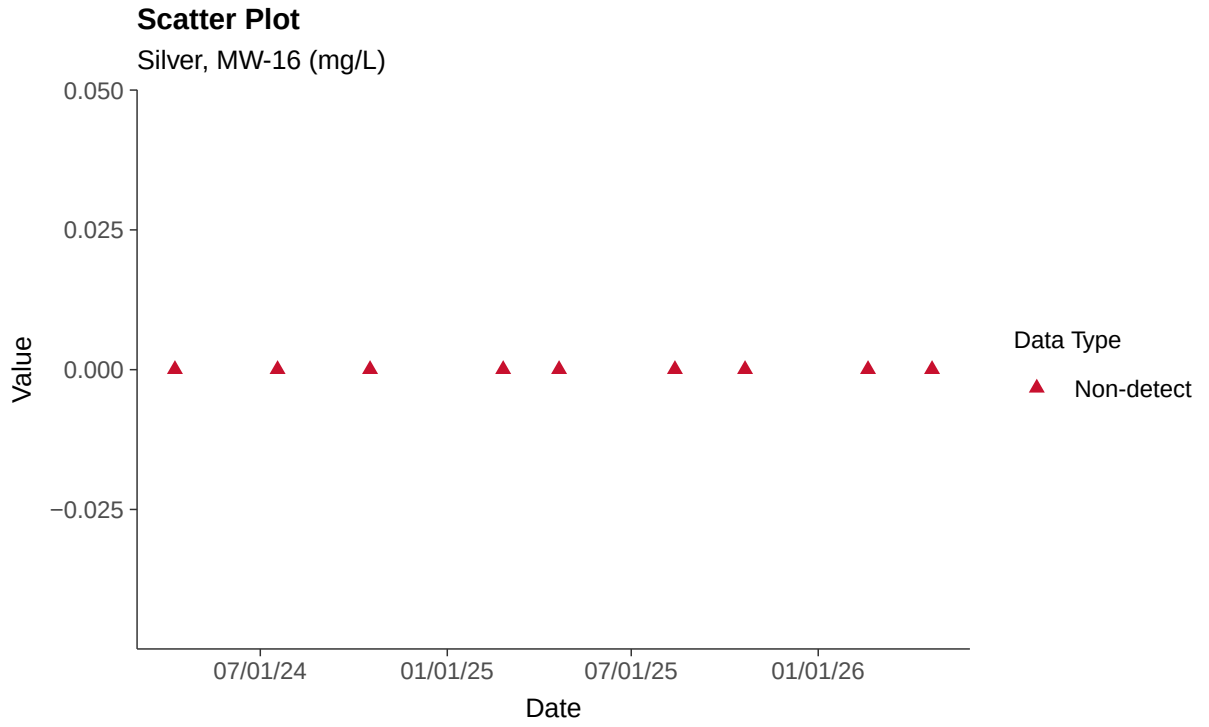
Trend Regression: Lognormal MLE

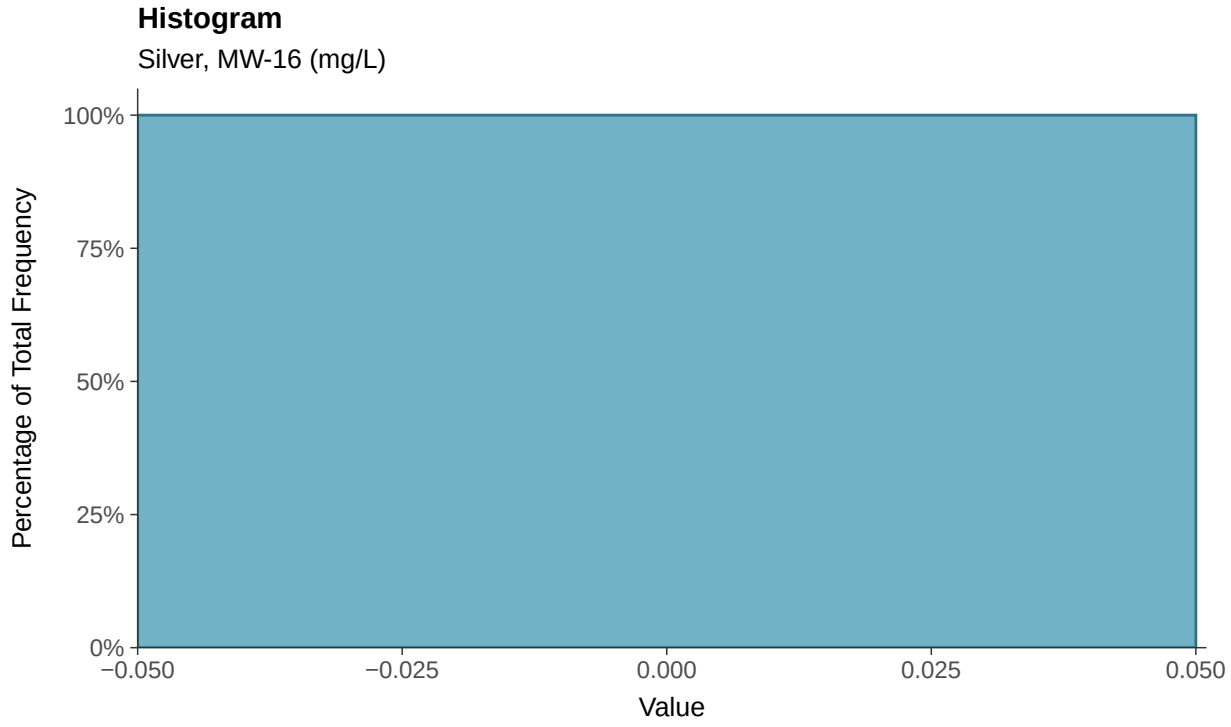
Nickel, MW-16 (mg/L)



Part 115: Silver, MW-16

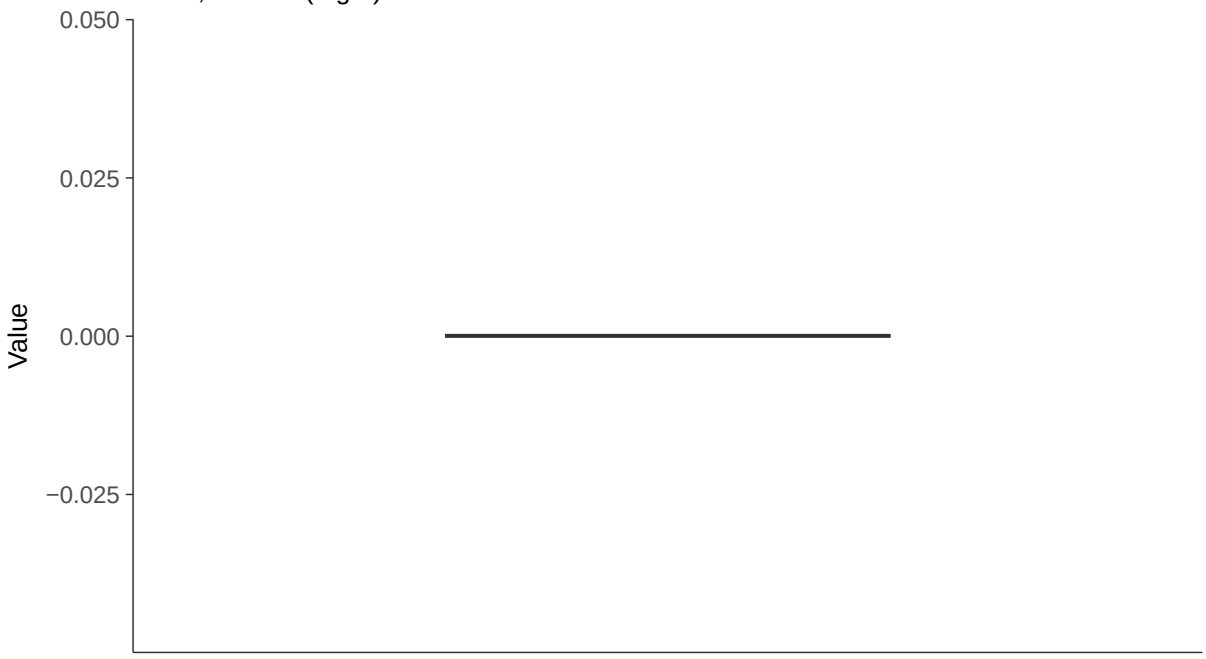
ID: 26_1_5_123





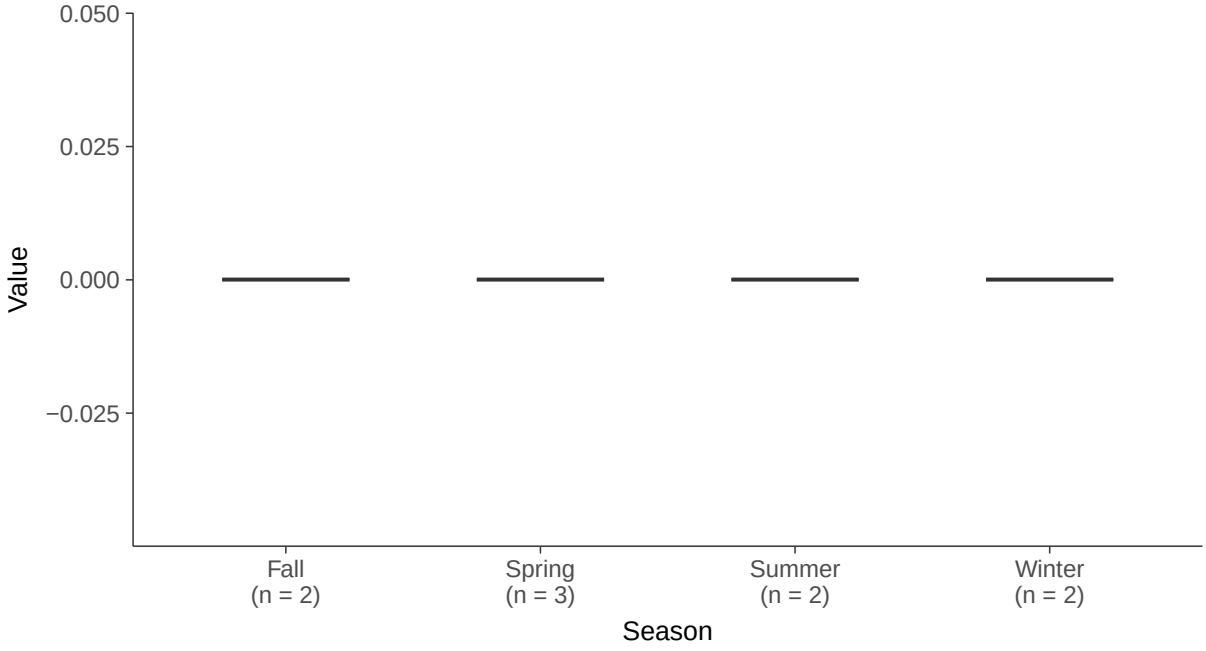
Boxplot

Silver, MW-16 (mg/L)



Boxplot by Season

Silver, MW-16 (mg/L)

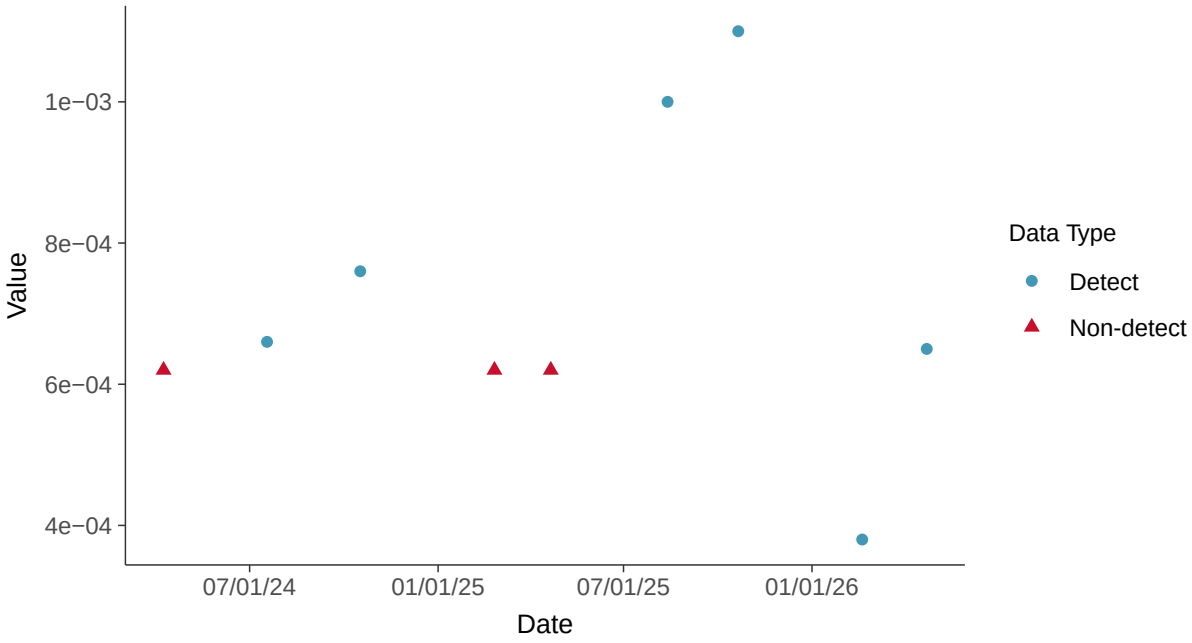


Part 115: Vanadium, MW-16

ID: 26_1_5_128

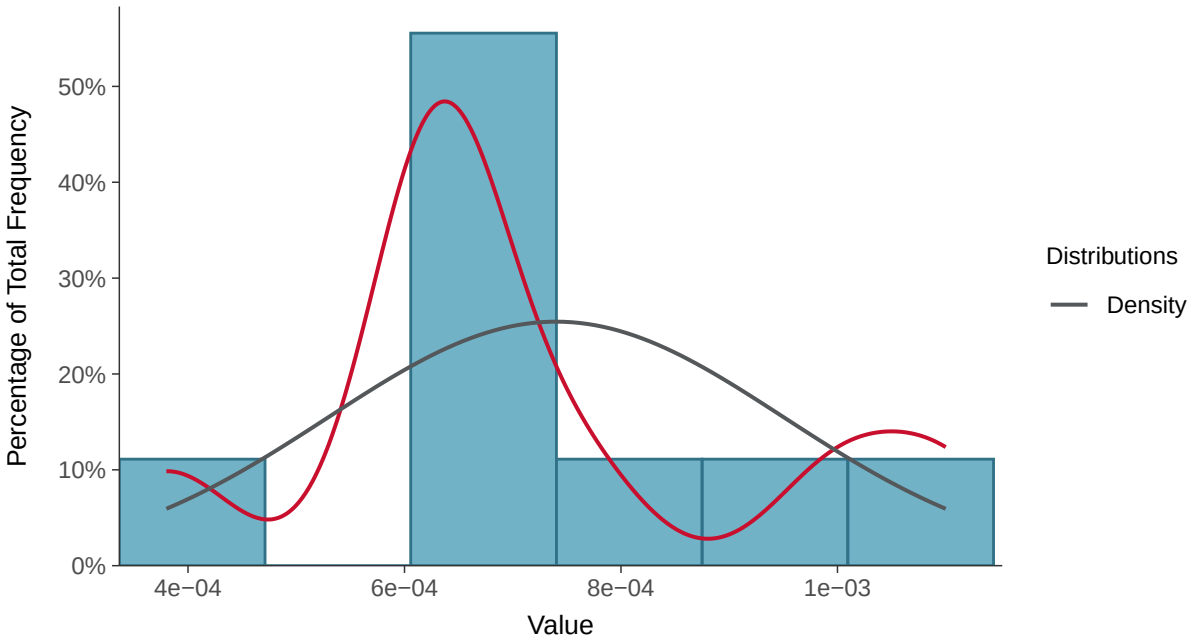
Scatter Plot

Vanadium, MW-16 (mg/L)



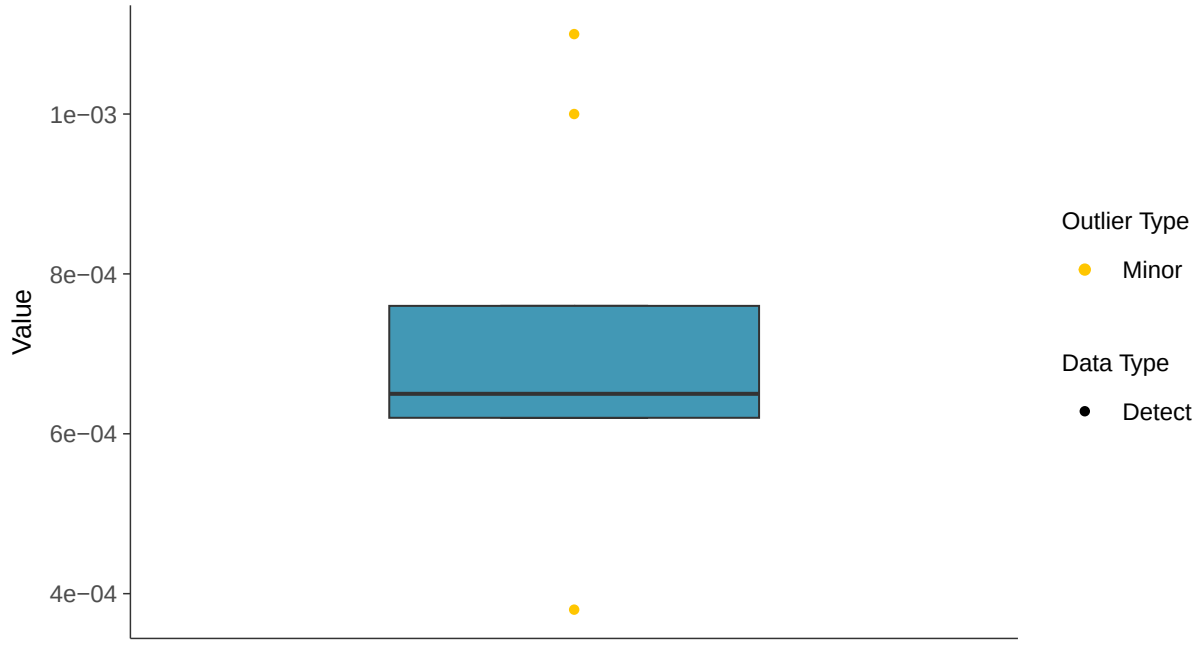
Histogram

Vanadium, MW-16 (mg/L)



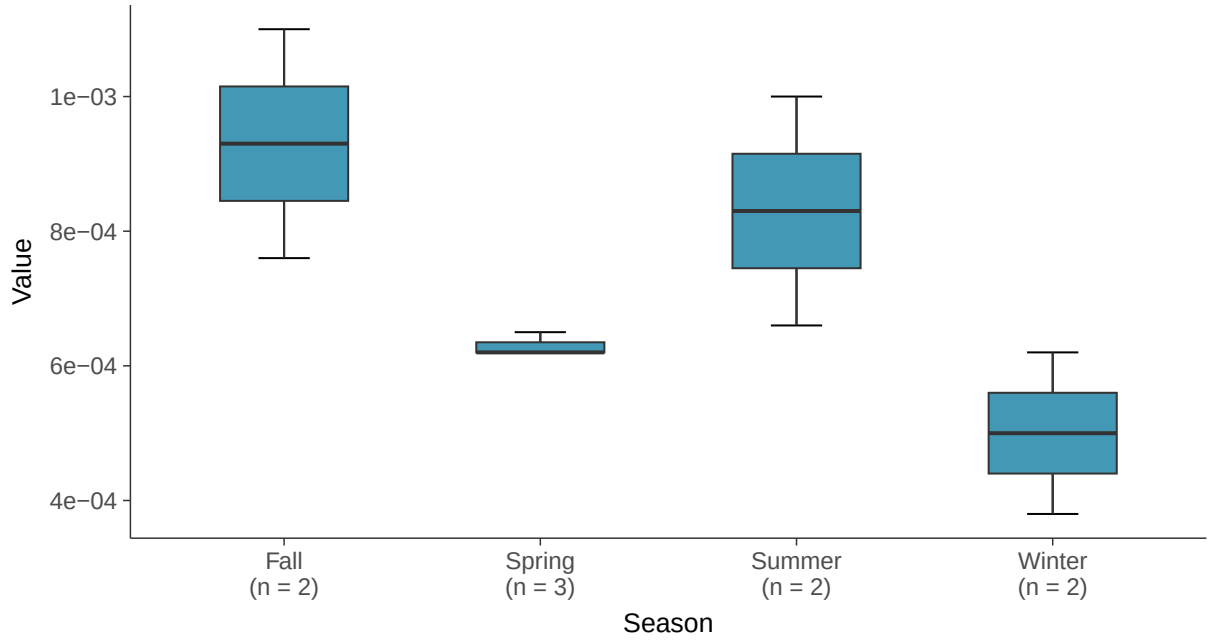
Boxplot

Vanadium, MW-16 (mg/L)



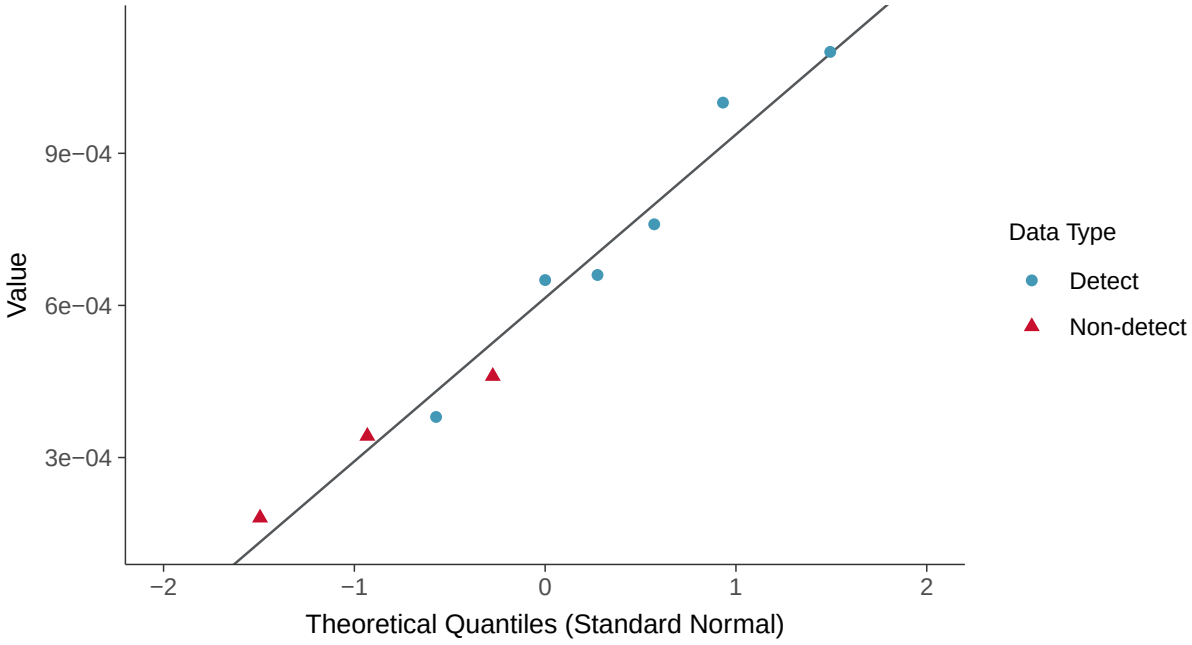
Boxplot by Season

Vanadium, MW-16 (mg/L)



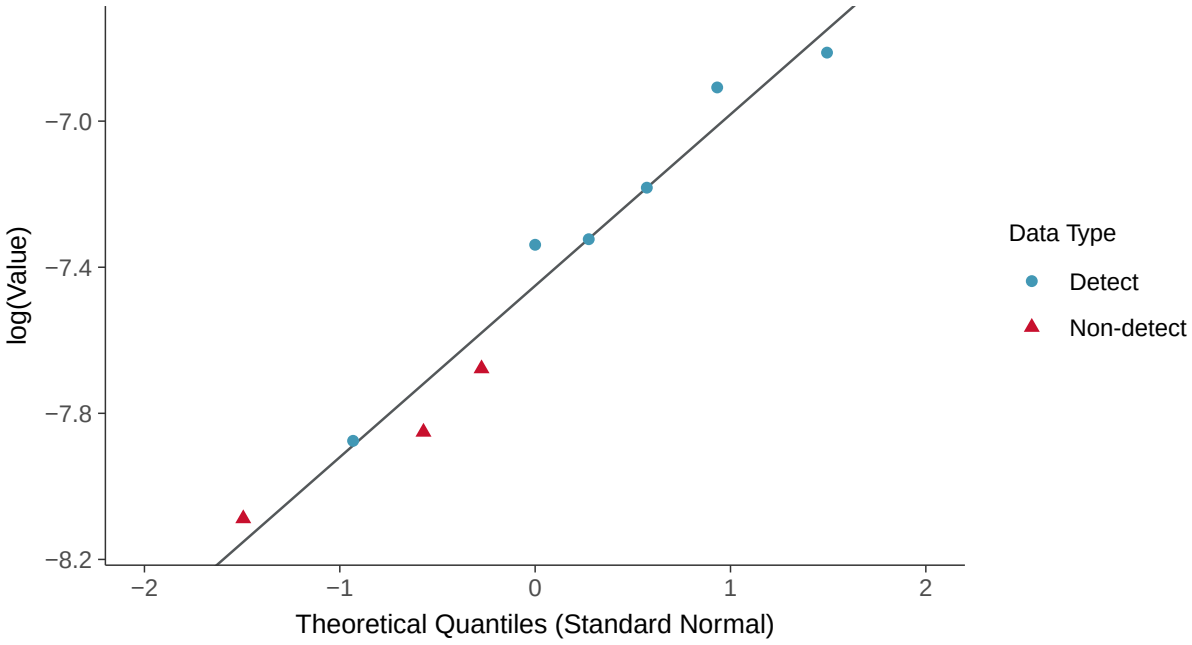
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-16 (mg/L)



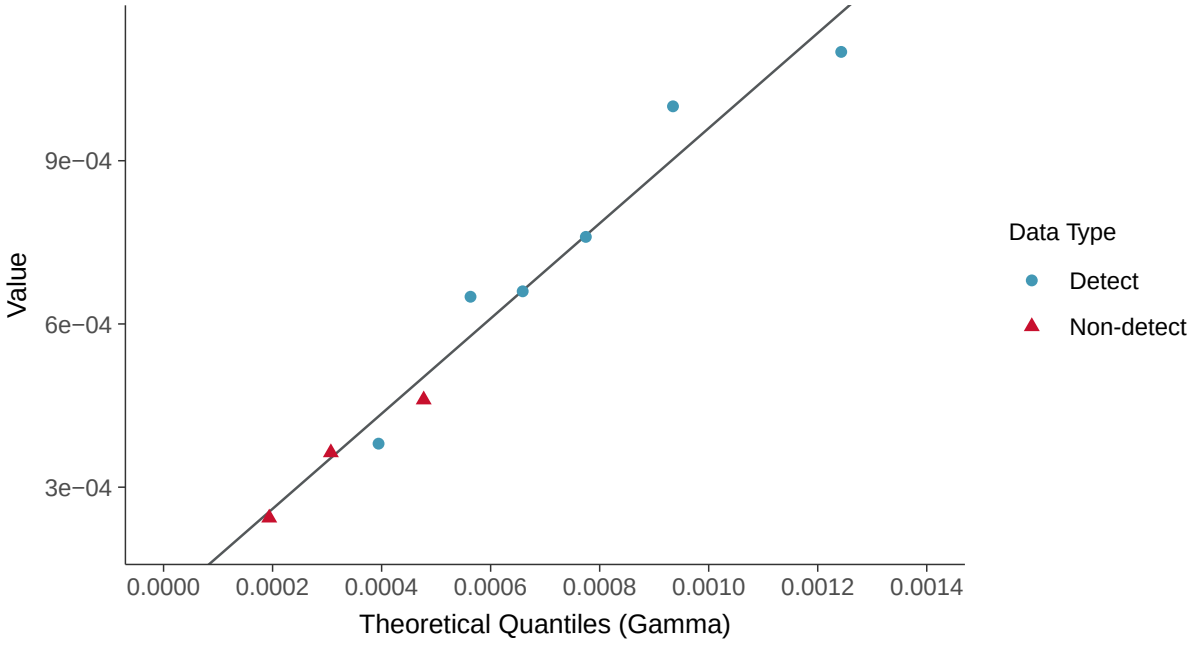
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-16 (mg/L)



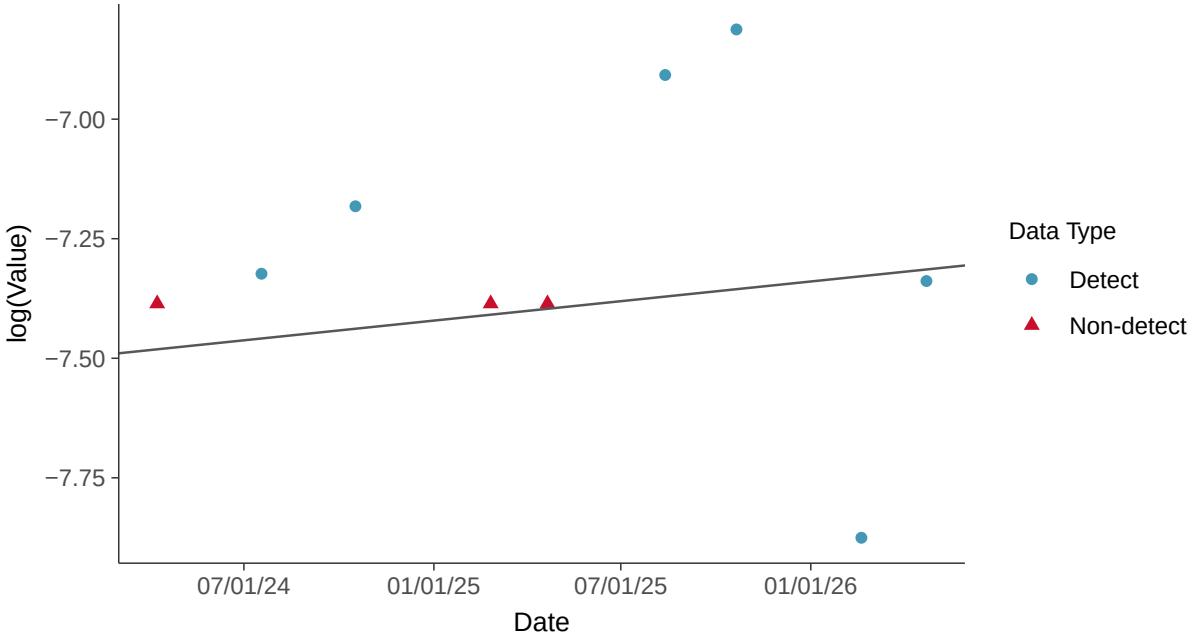
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-16 (mg/L)



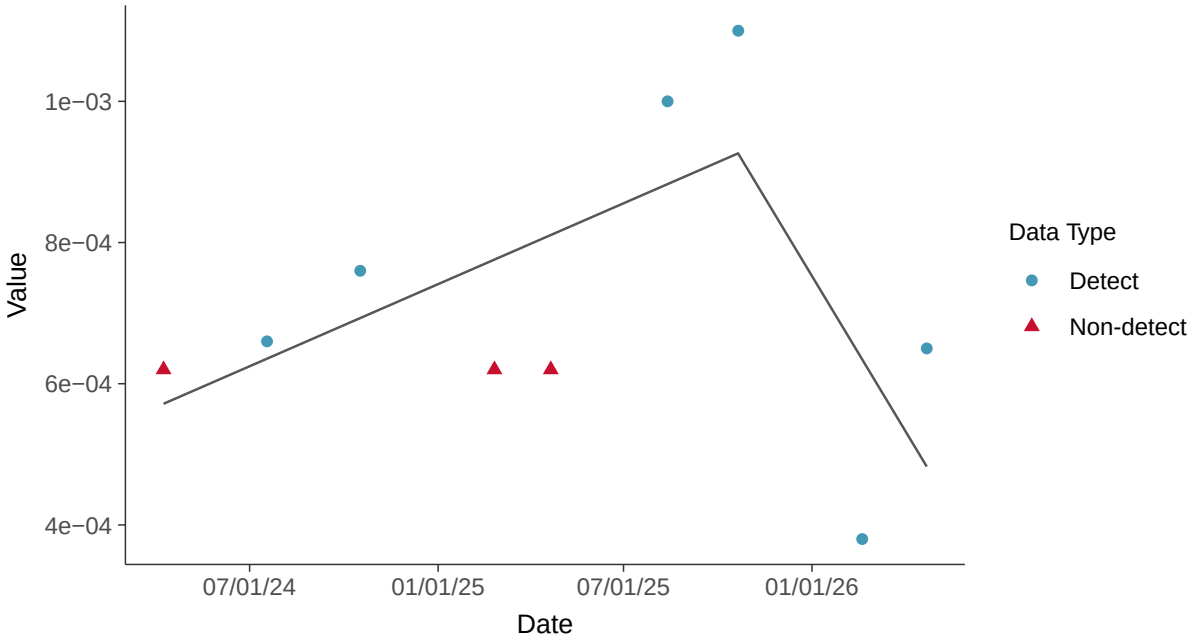
Trend Regression: Lognormal MLE

Vanadium, MW-16 (mg/L)



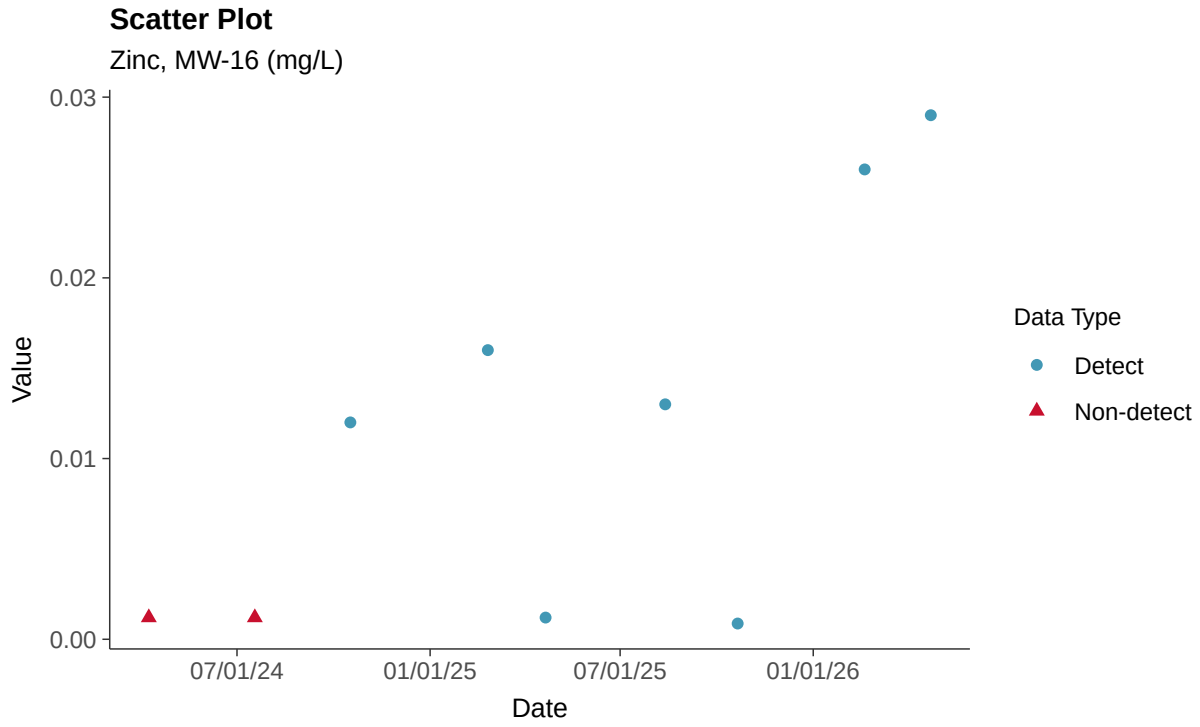
Trend Regression: Piecewise Linear-Linear

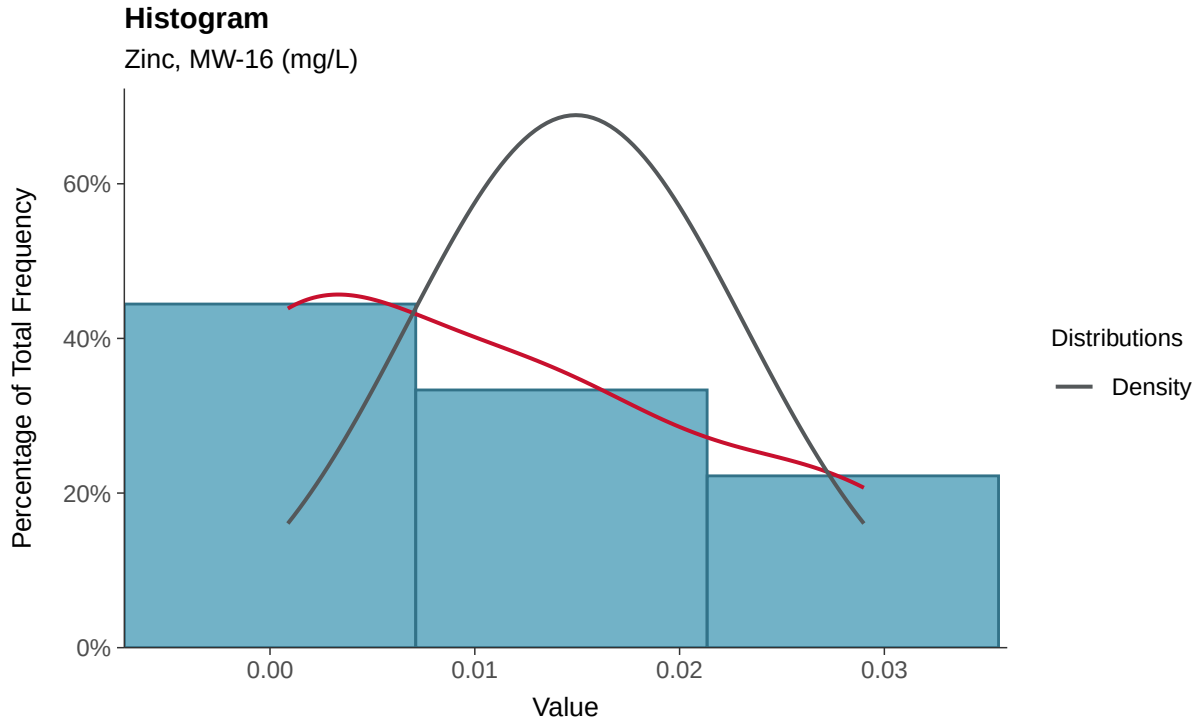
Vanadium, MW-16 (mg/L)



Part 115: Zinc, MW-16

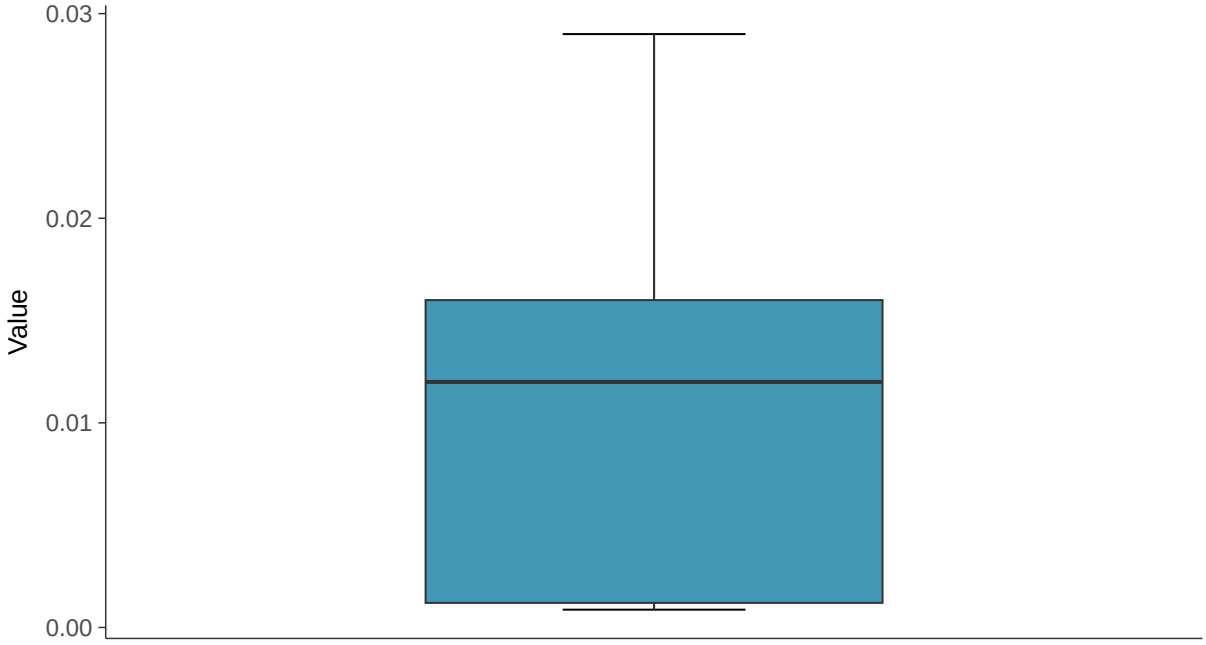
ID: 26_1_5_129





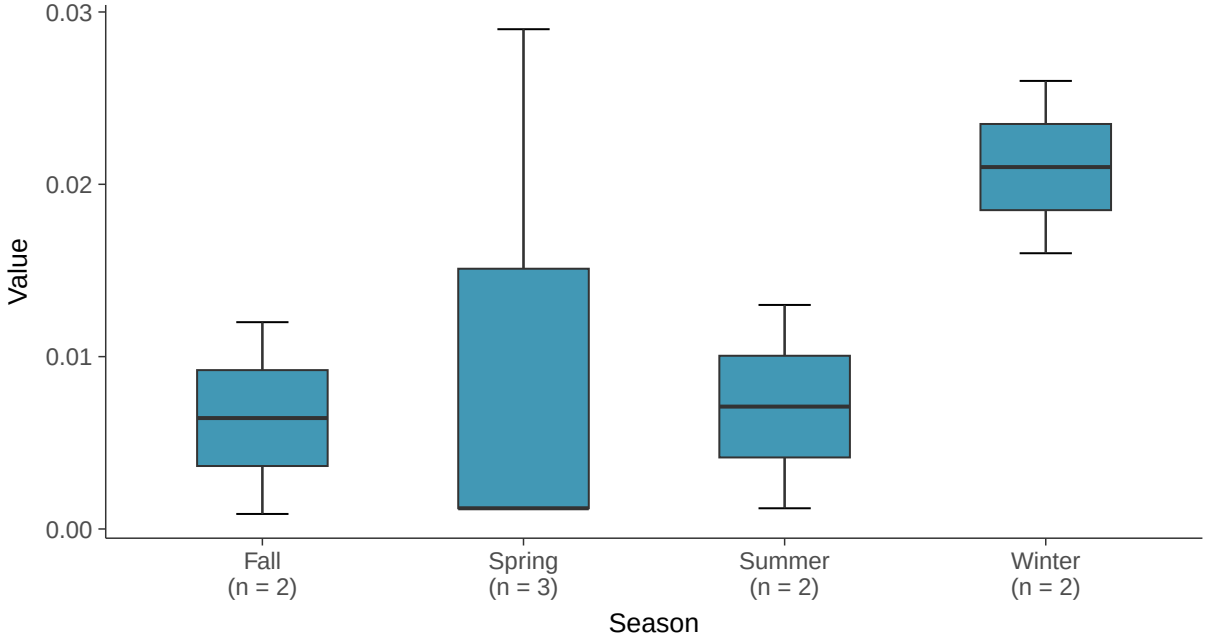
Boxplot

Zinc, MW-16 (mg/L)



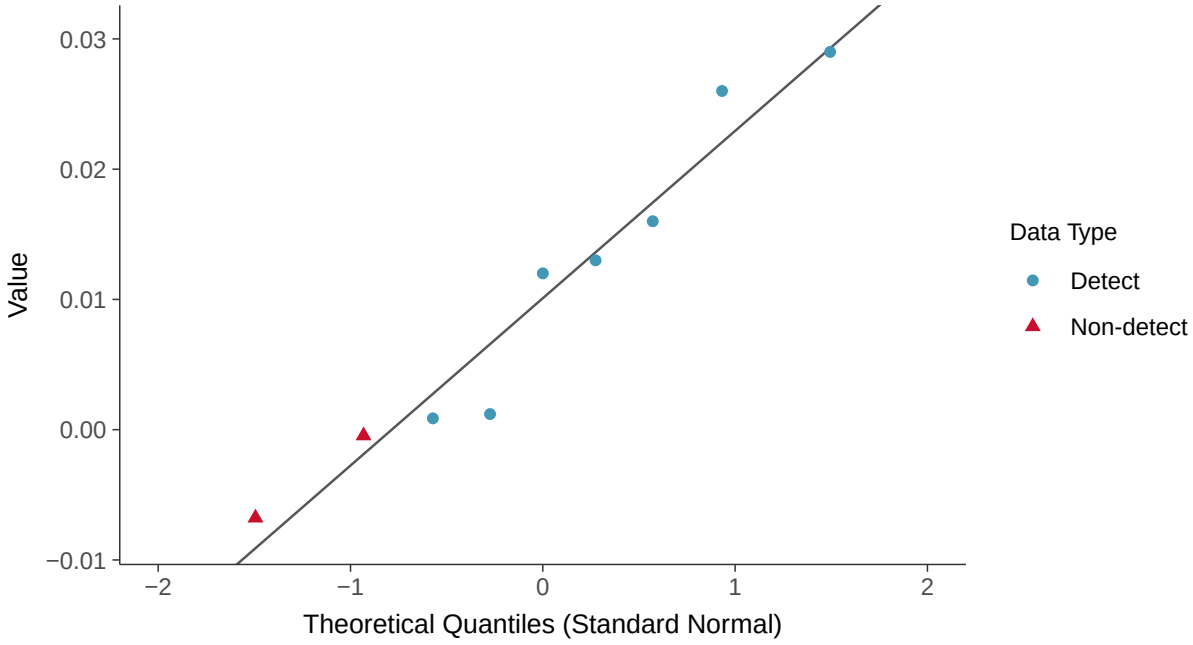
Boxplot by Season

Zinc, MW-16 (mg/L)



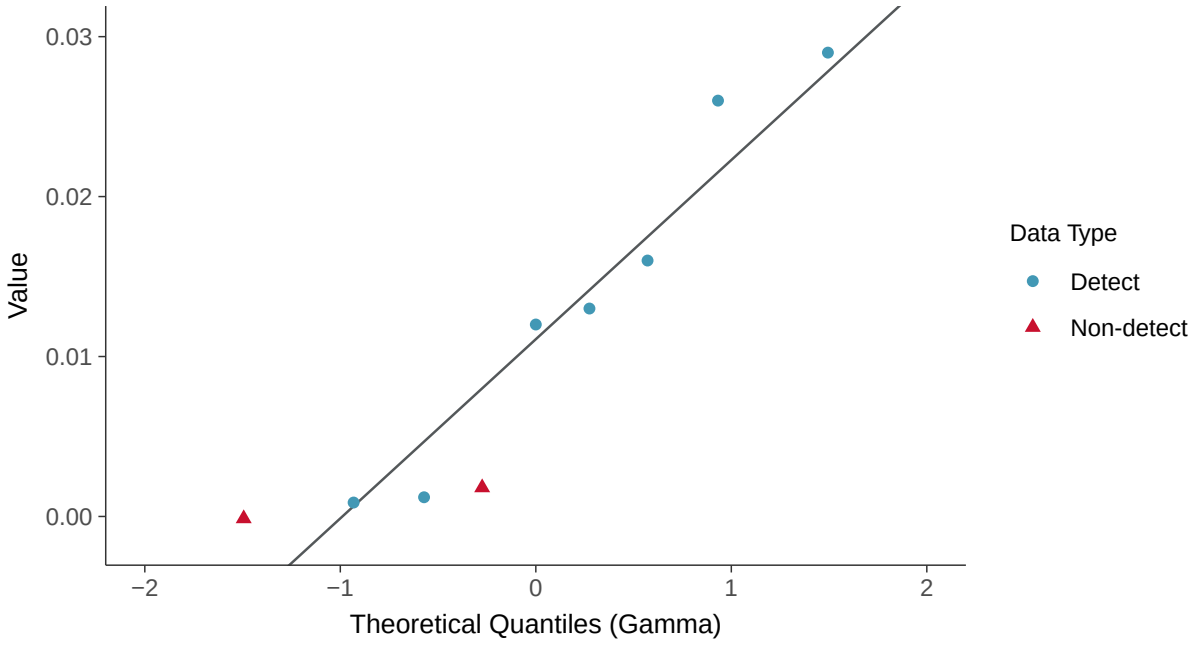
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-16 (mg/L)



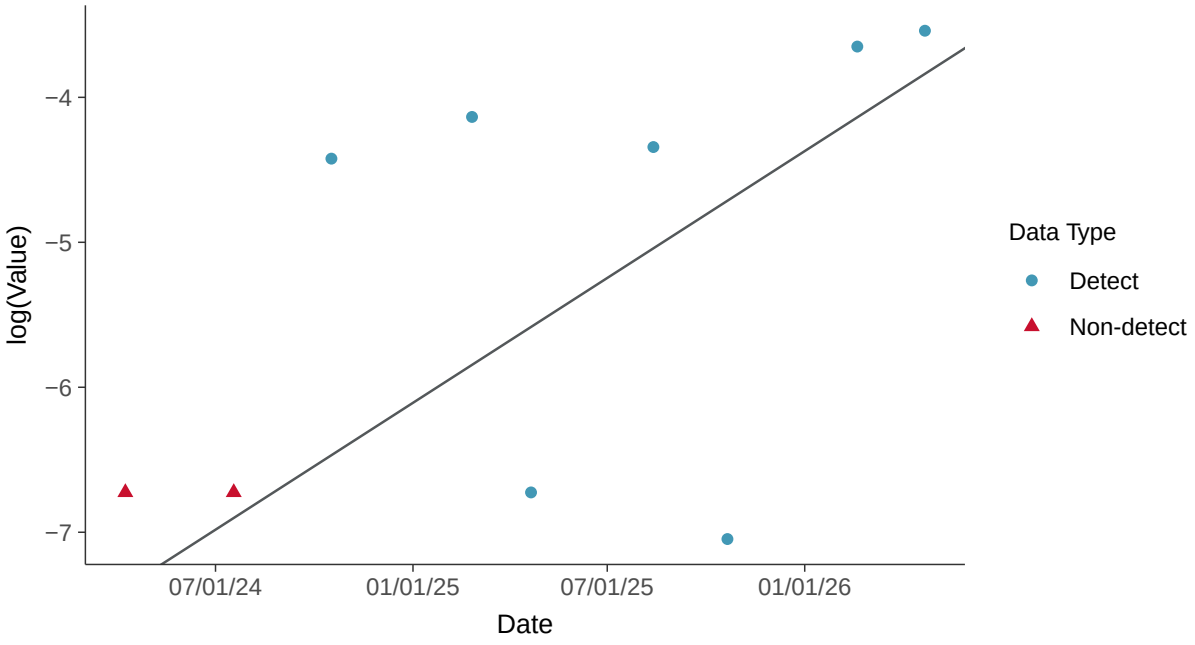
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-16 (mg/L)



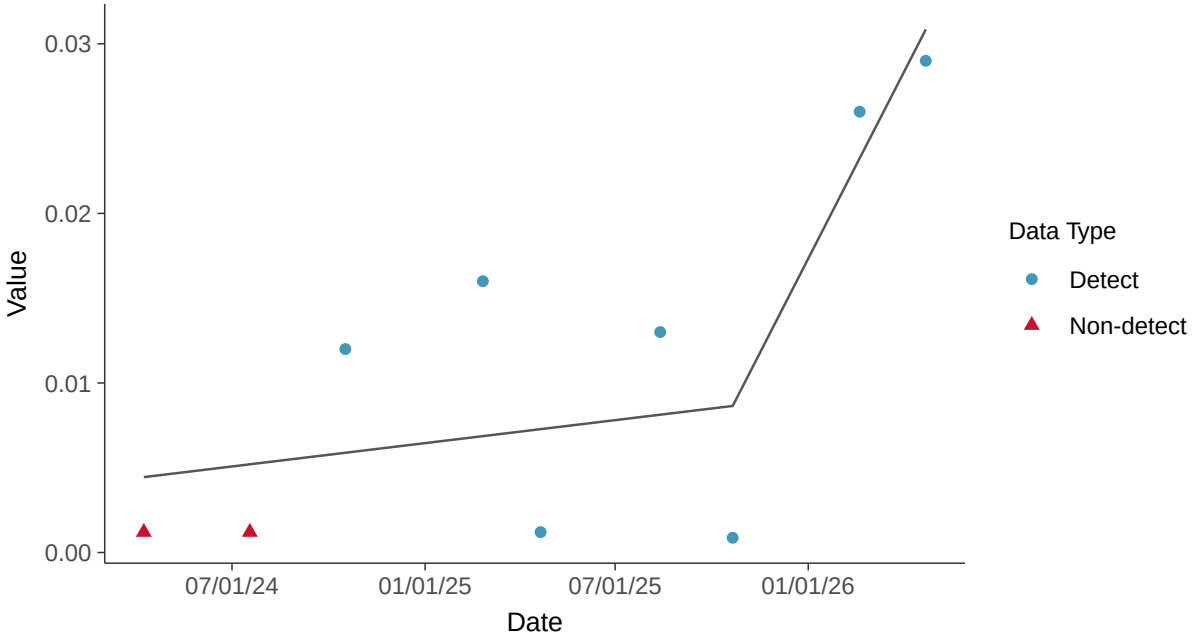
Trend Regression: Lognormal MLE

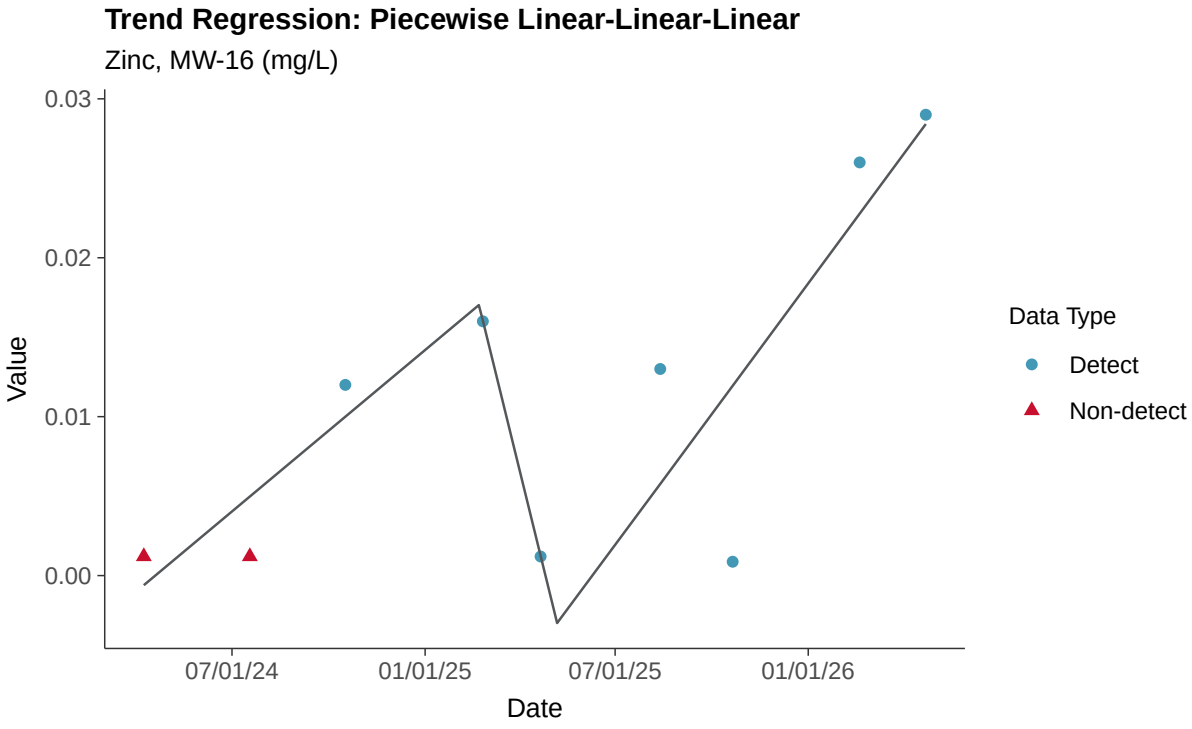
Zinc, MW-16 (mg/L)



Trend Regression: Piecewise Linear-Linear

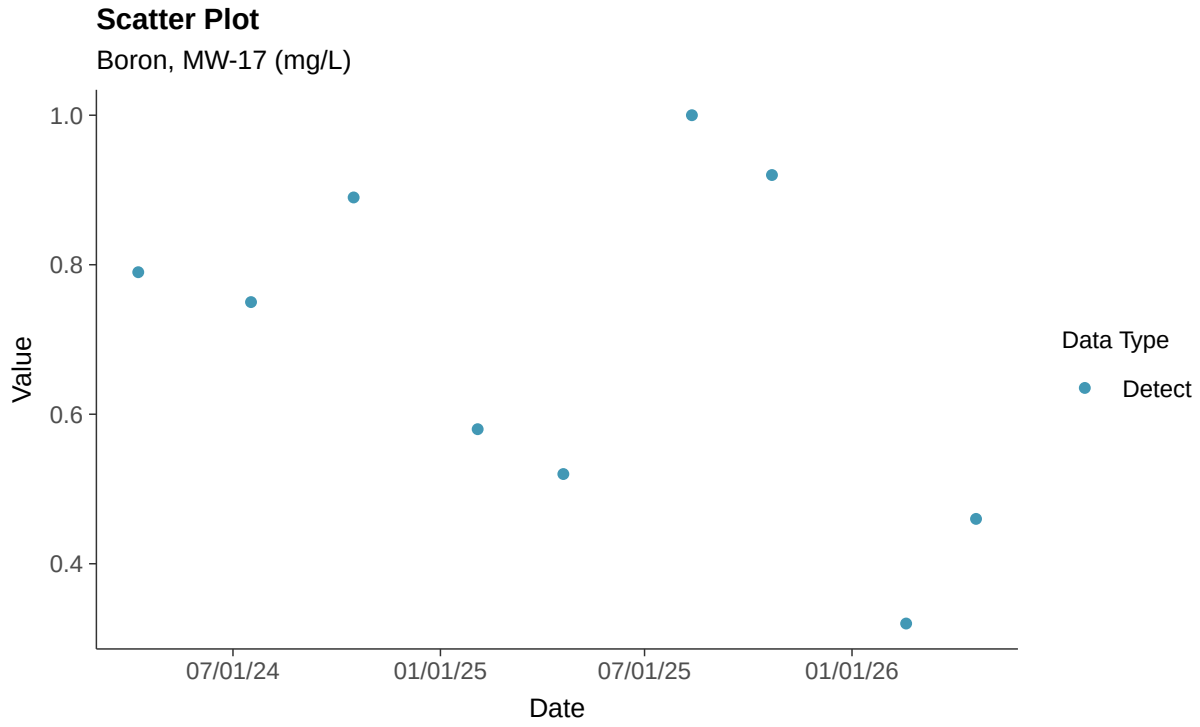
Zinc, MW-16 (mg/L)

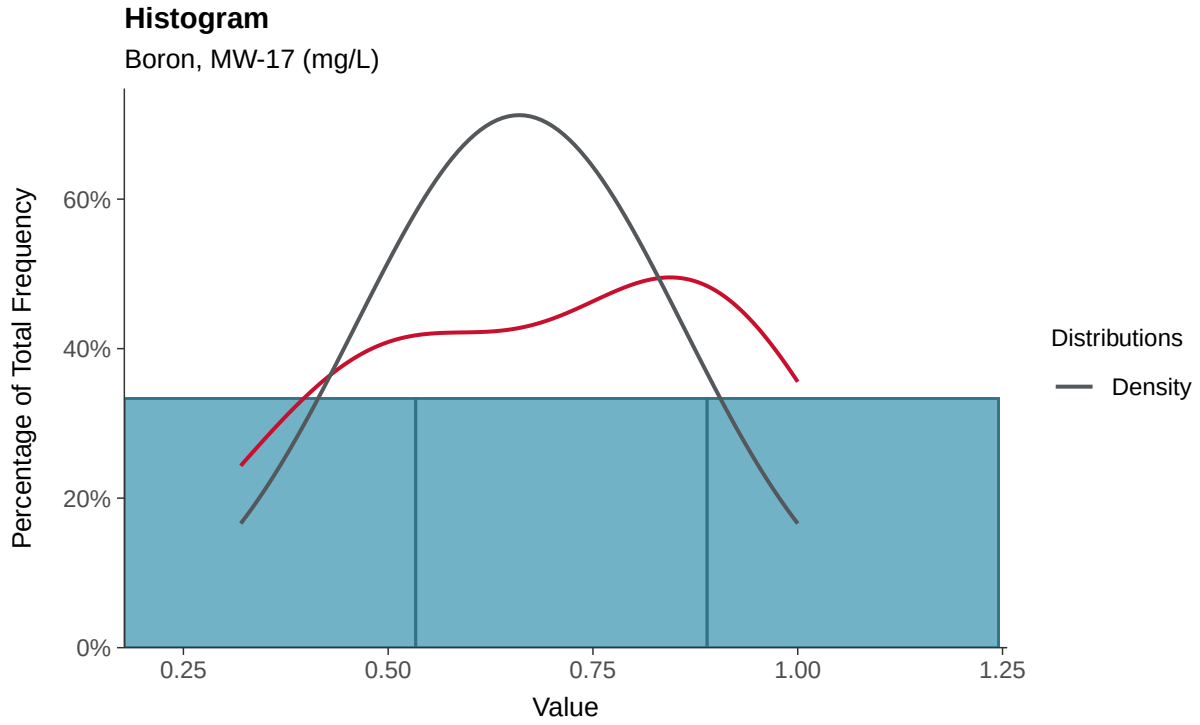



Trend Regression: Piecewise Linear-Linear-Linear
Zinc, MW-16 (mg/L)
0.03
0.02
0.01
0.00
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix III: Boron, MW-17

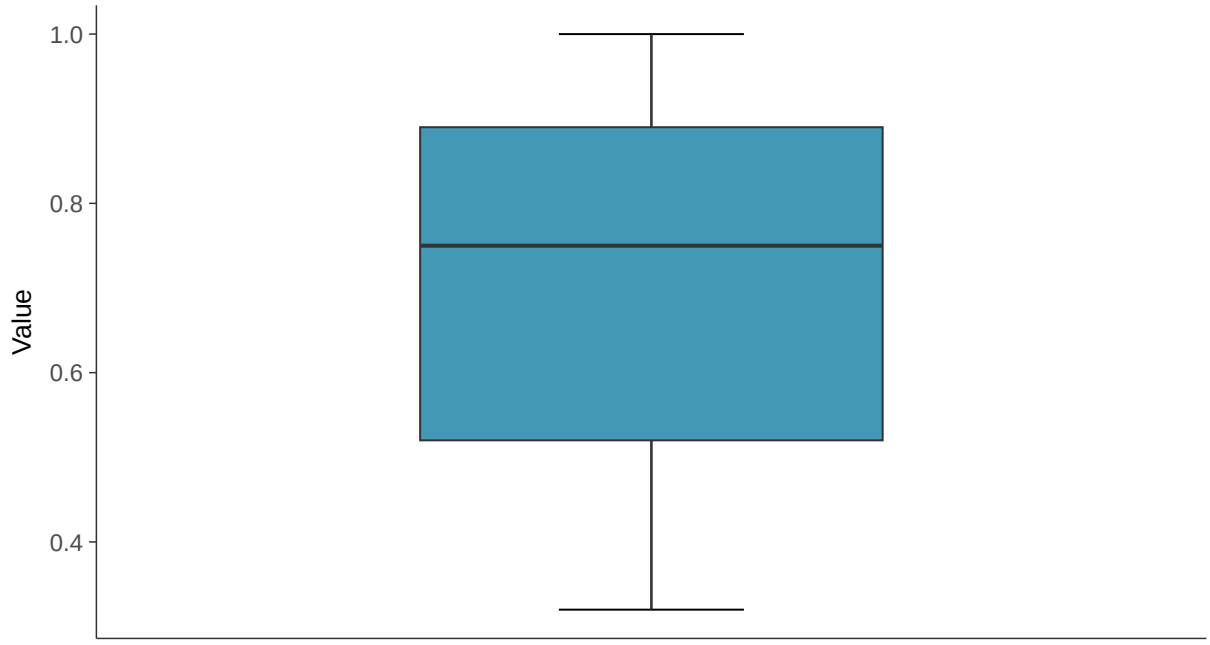
ID: 27_1_3_105





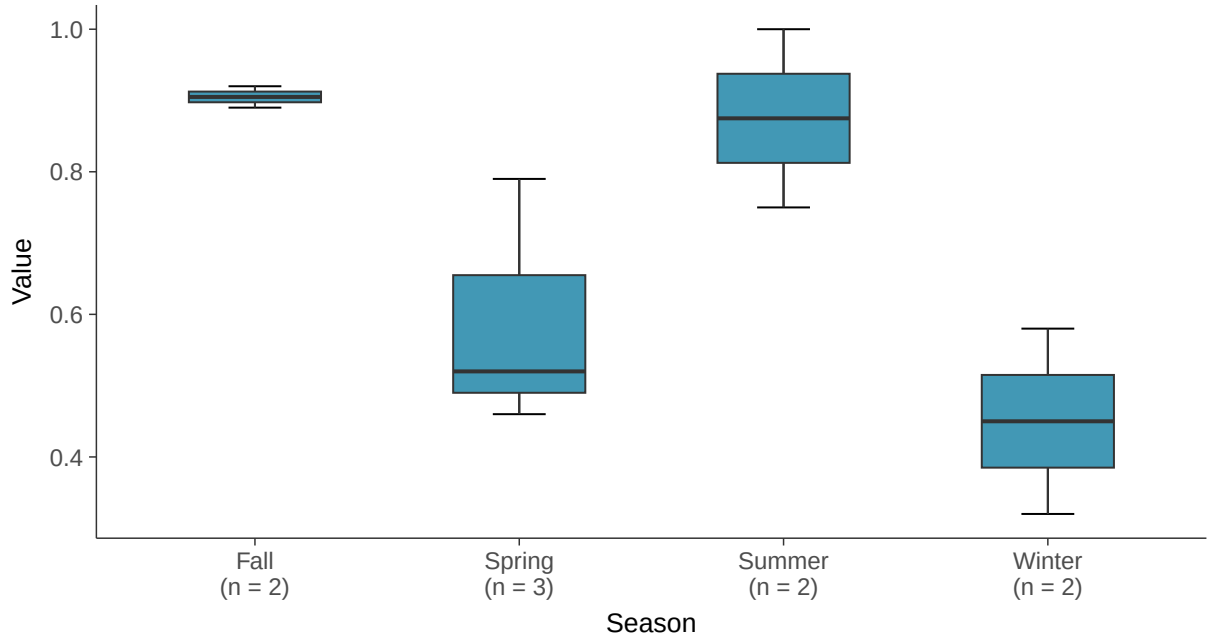
Boxplot

Boron, MW-17 (mg/L)



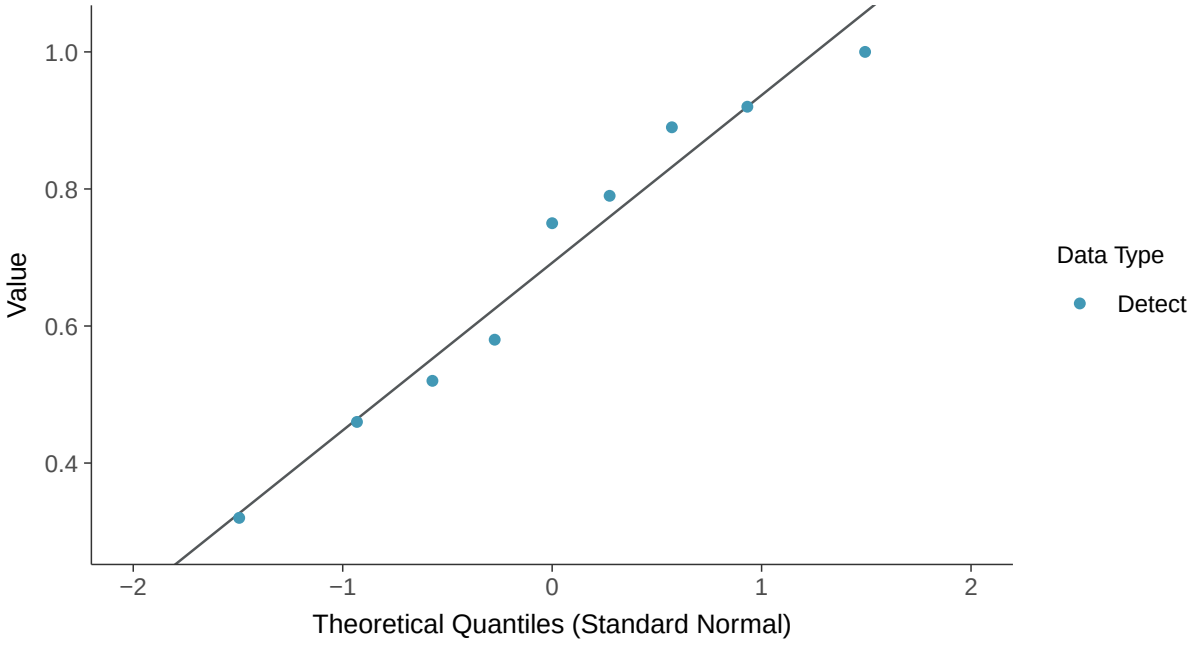
Boxplot by Season

Boron, MW-17 (mg/L)



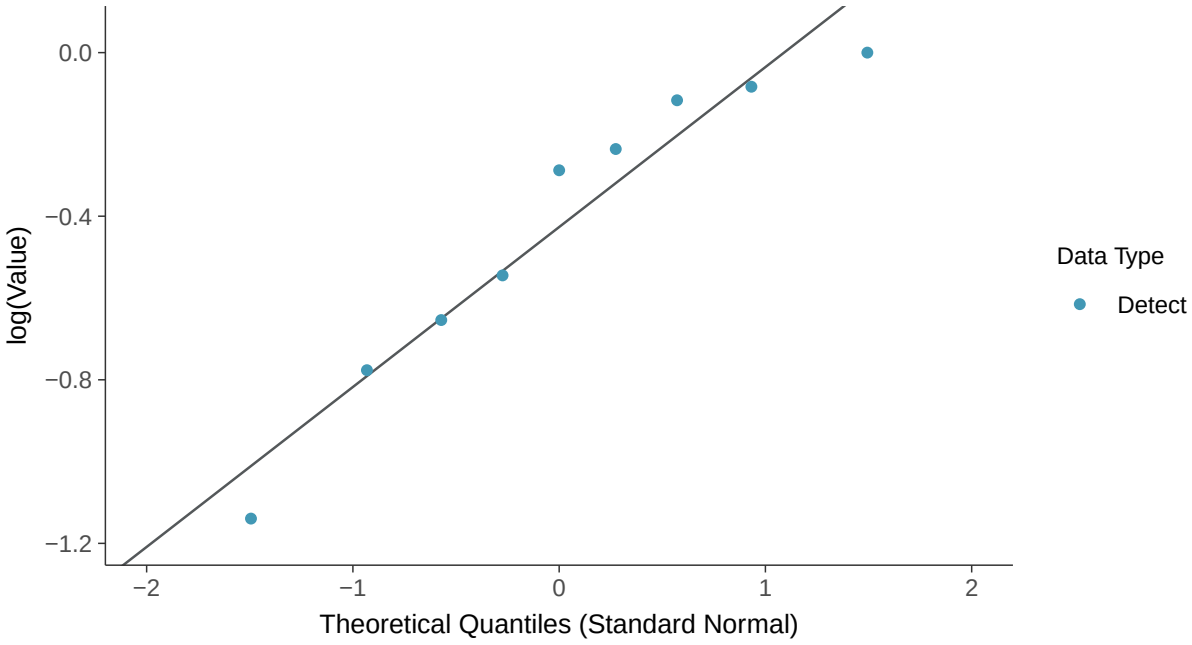
Normal Q-Q plot

Boron, MW-17 (mg/L)



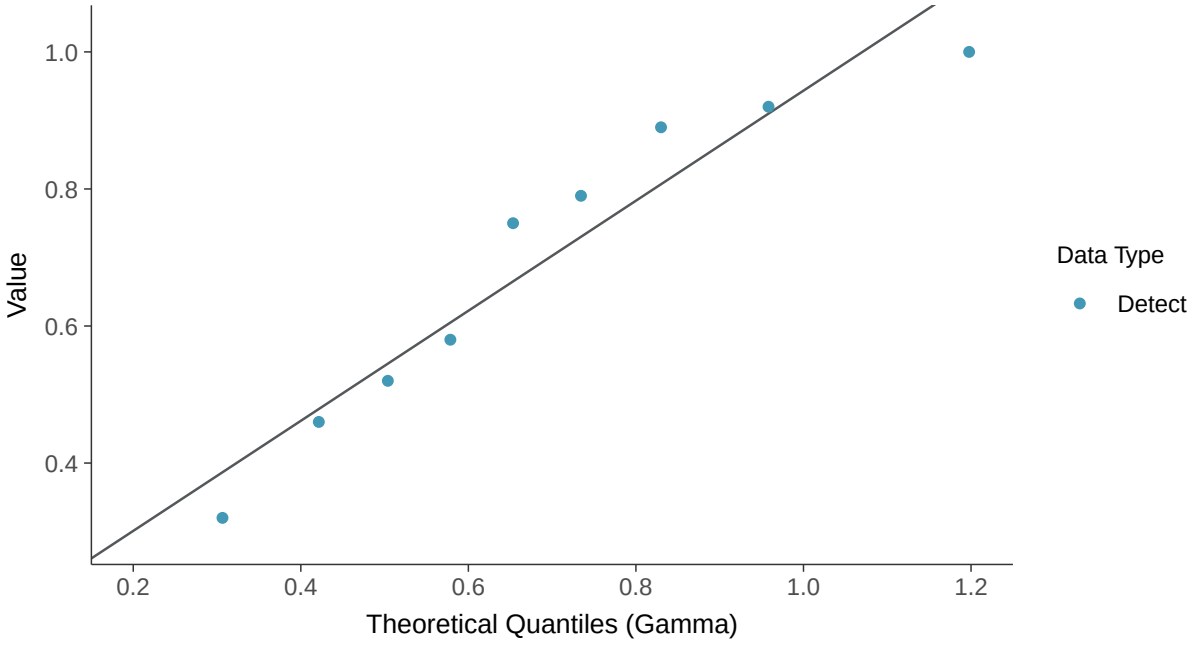
Lognormal Q-Q plot

Boron, MW-17 (mg/L)



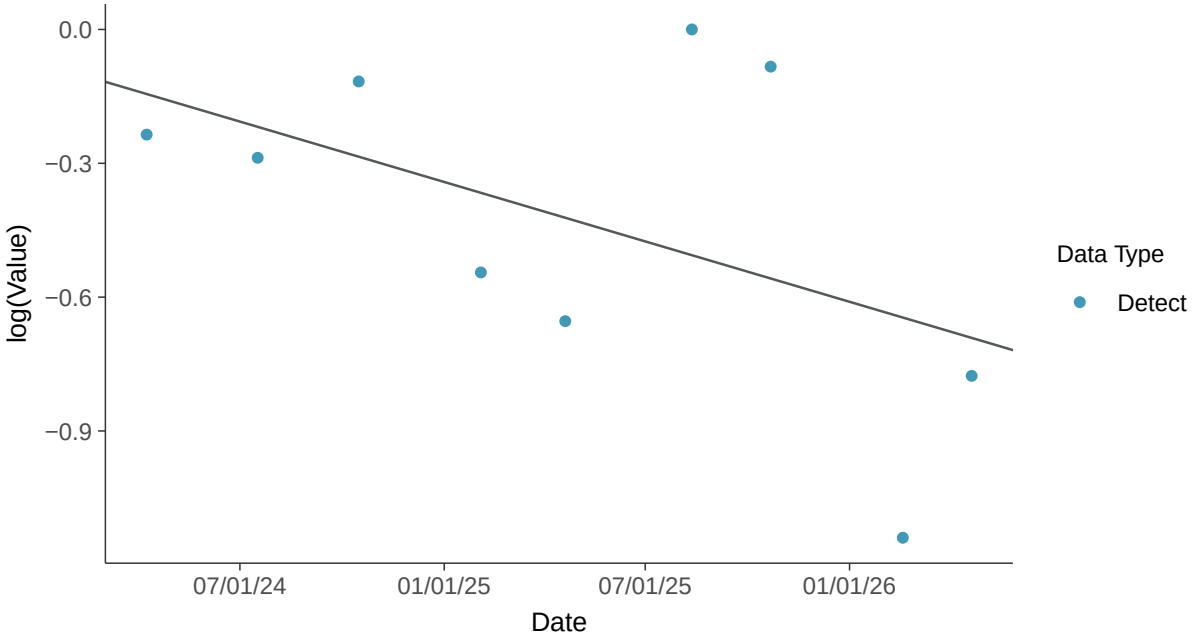
Gamma Q-Q plot

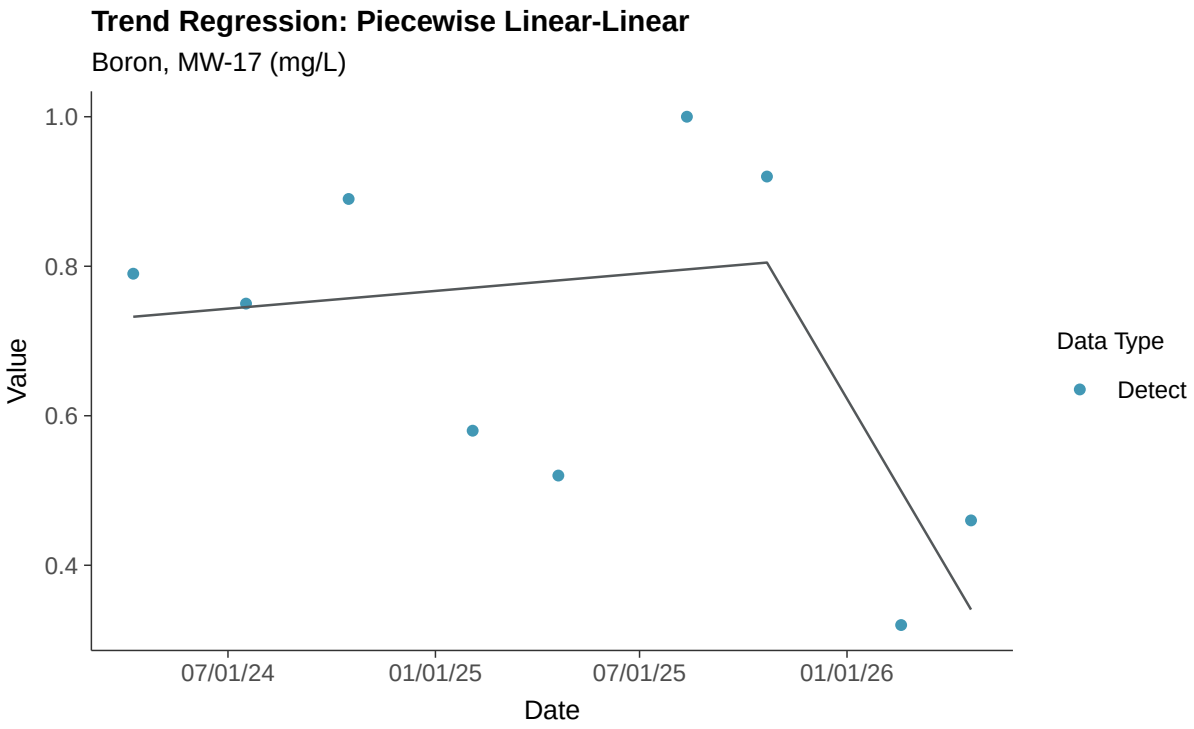
Boron, MW-17 (mg/L)



Trend Regression: Lognormal MLE

Boron, MW-17 (mg/L)



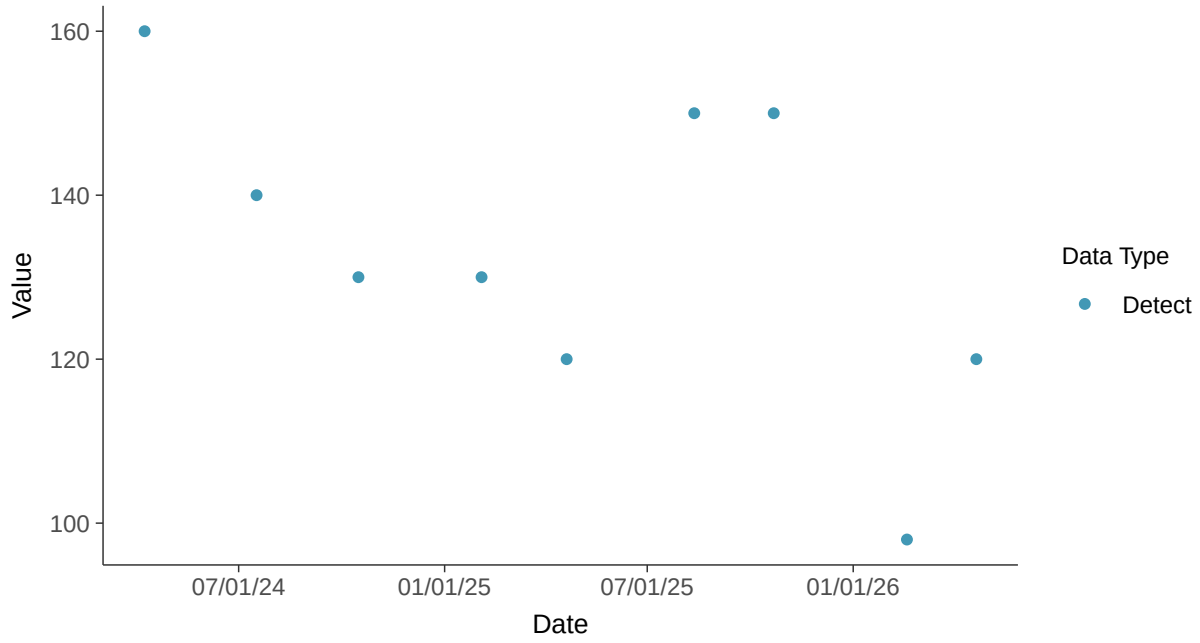

Trend Regression: Piecewise Linear-Linear
Boron, MW-17 (mg/L)
1.0
0.8
0.6
0.4
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Calcium, MW-17

ID: 27_1_3_107

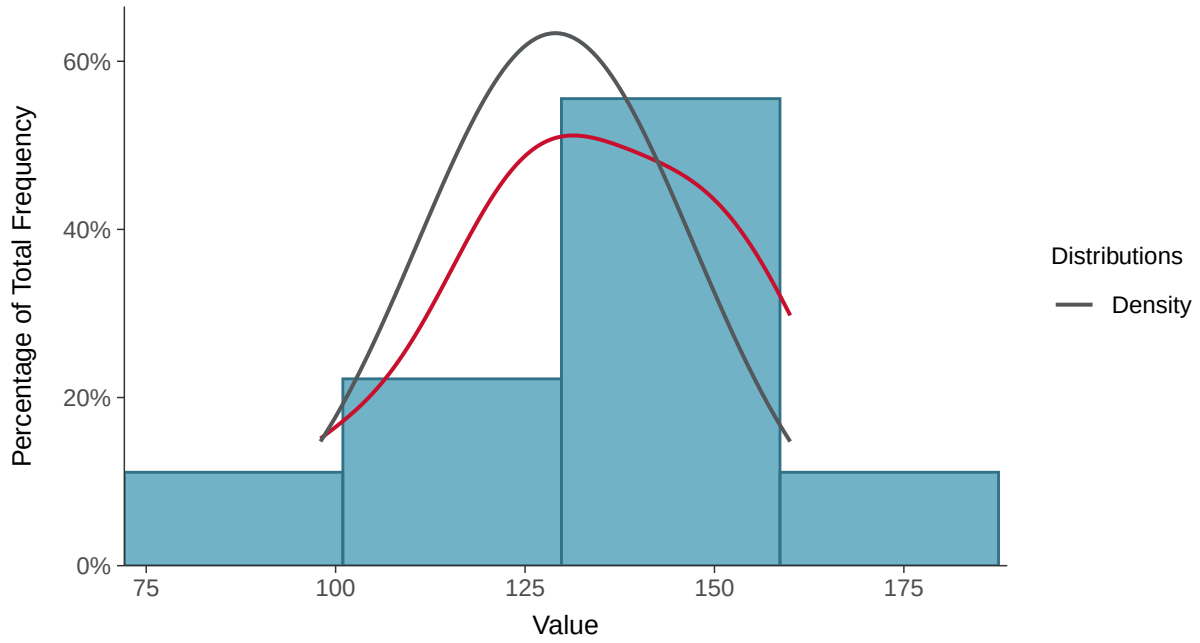
Scatter Plot

Calcium, MW-17 (mg/L)



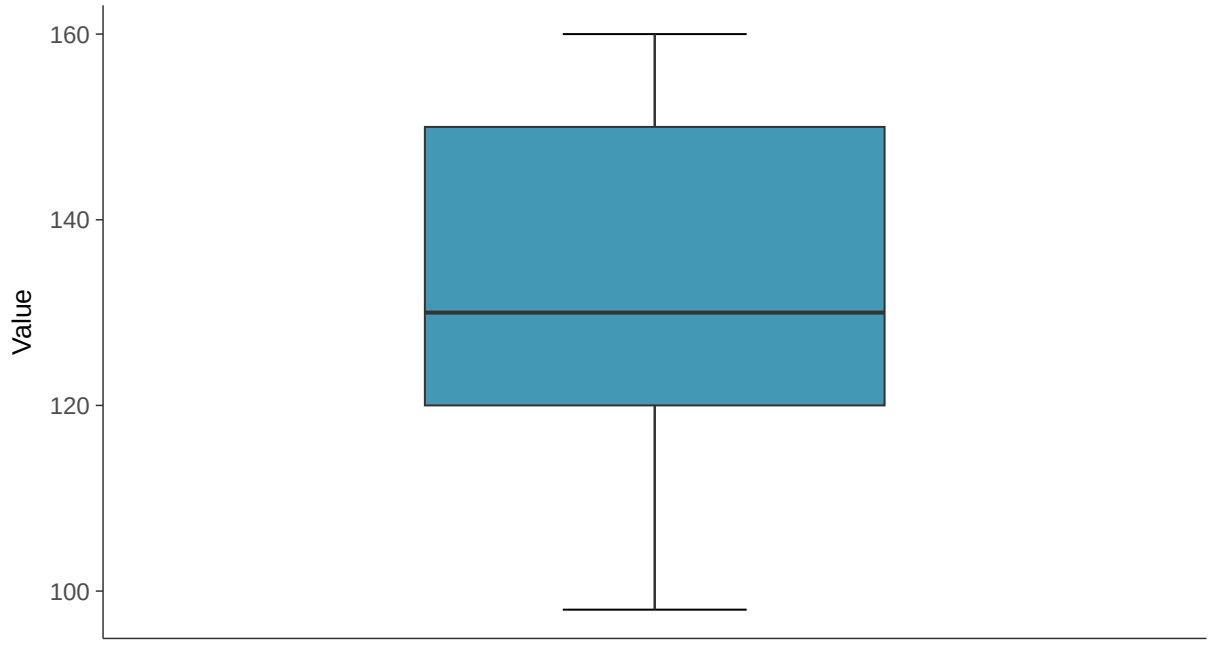
Histogram

Calcium, MW-17 (mg/L)



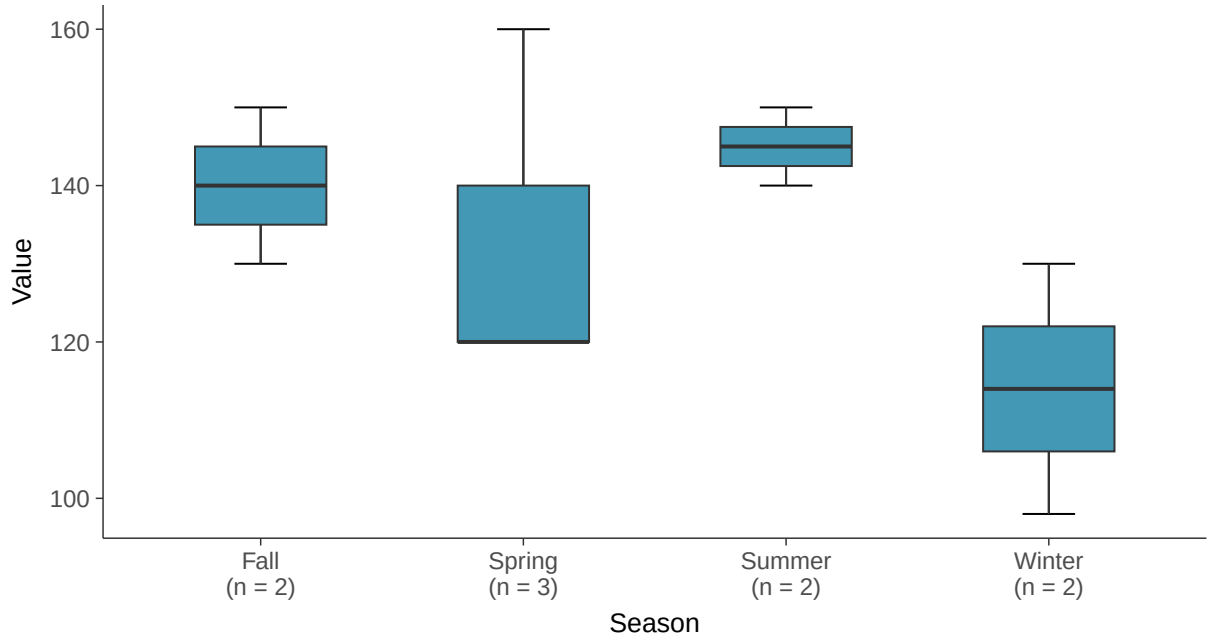
Boxplot

Calcium, MW-17 (mg/L)



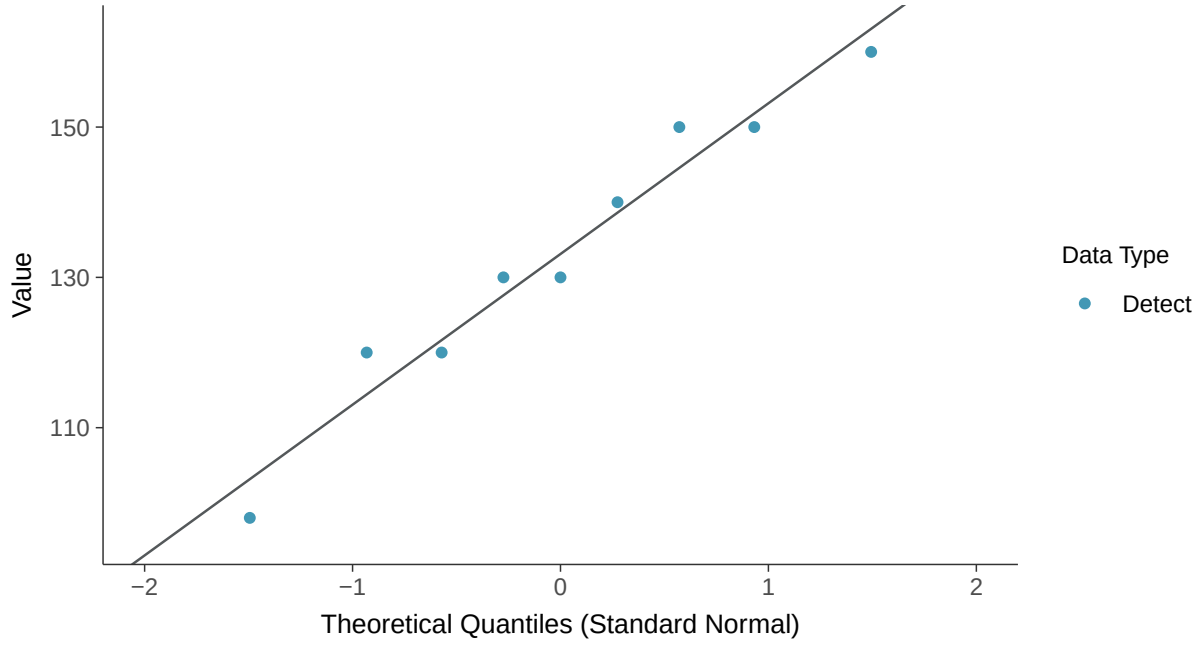
Boxplot by Season

Calcium, MW-17 (mg/L)



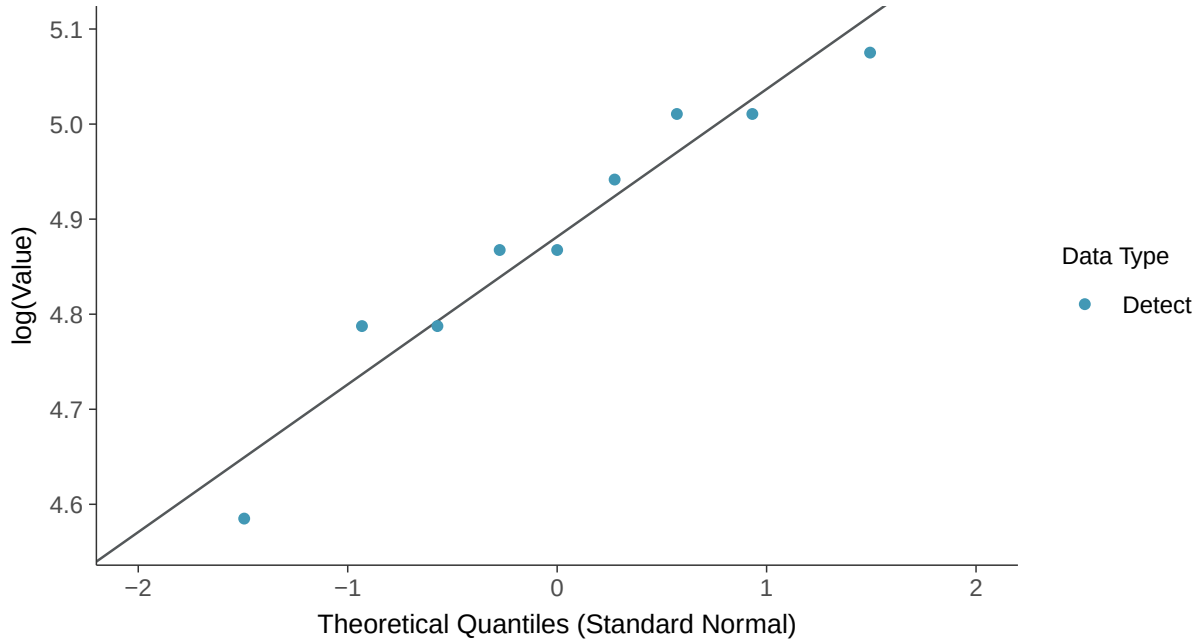
Normal Q-Q plot

Calcium, MW-17 (mg/L)



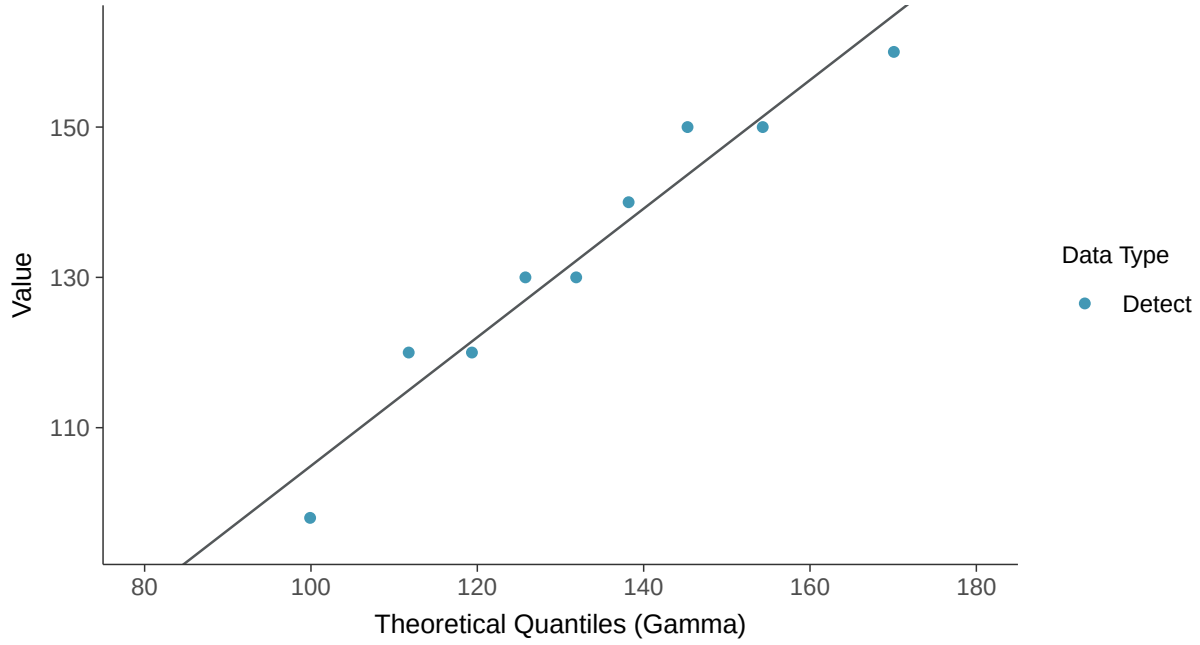
Lognormal Q-Q plot

Calcium, MW-17 (mg/L)



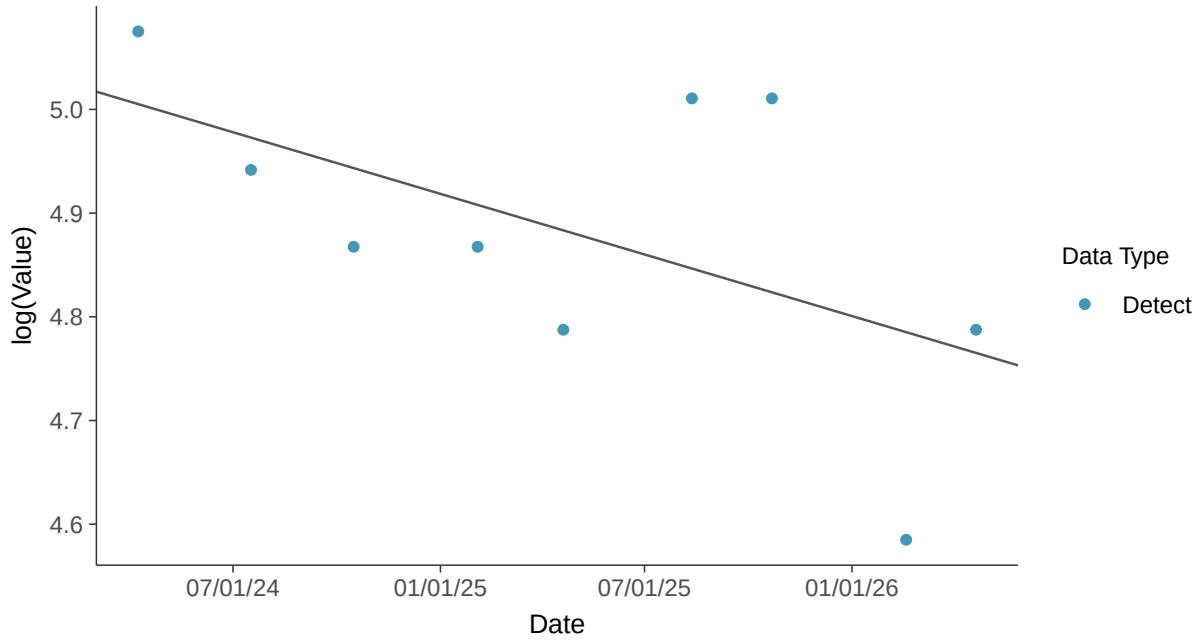
Gamma Q-Q plot

Calcium, MW-17 (mg/L)



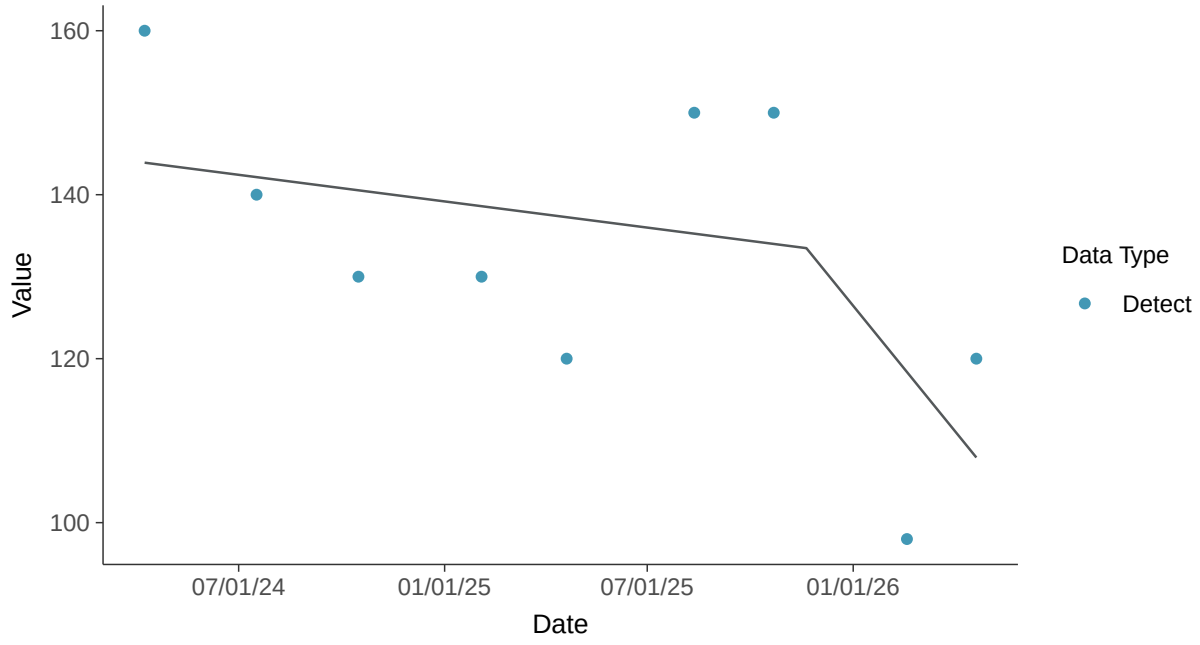
Trend Regression: Lognormal MLE

Calcium, MW-17 (mg/L)



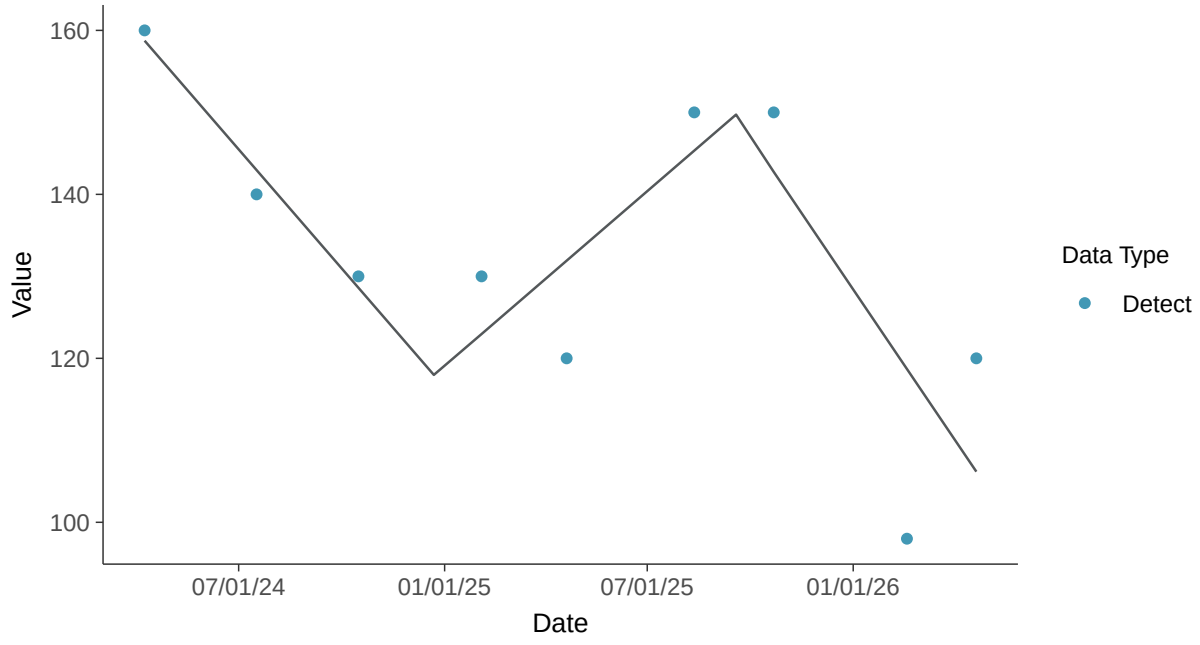
Trend Regression: Piecewise Linear-Linear

Calcium, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-17 (mg/L)

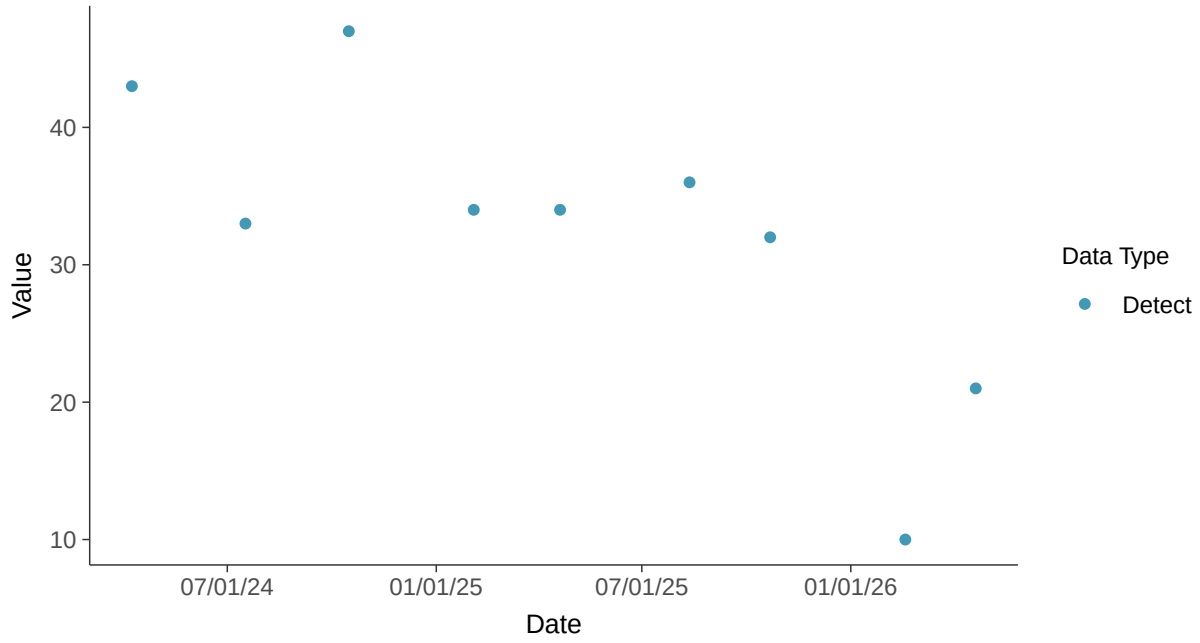


Appendix III: Chloride (as Cl), MW-17

ID: 27_1_3_108

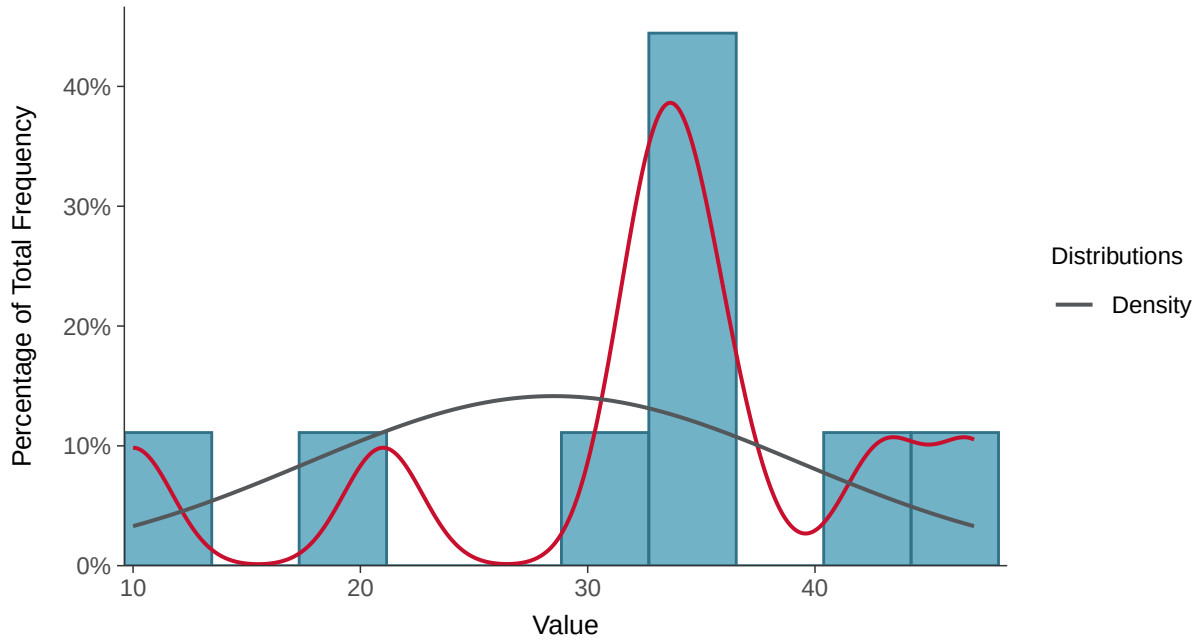
Scatter Plot

Chloride (as Cl), MW-17 (mg/L)



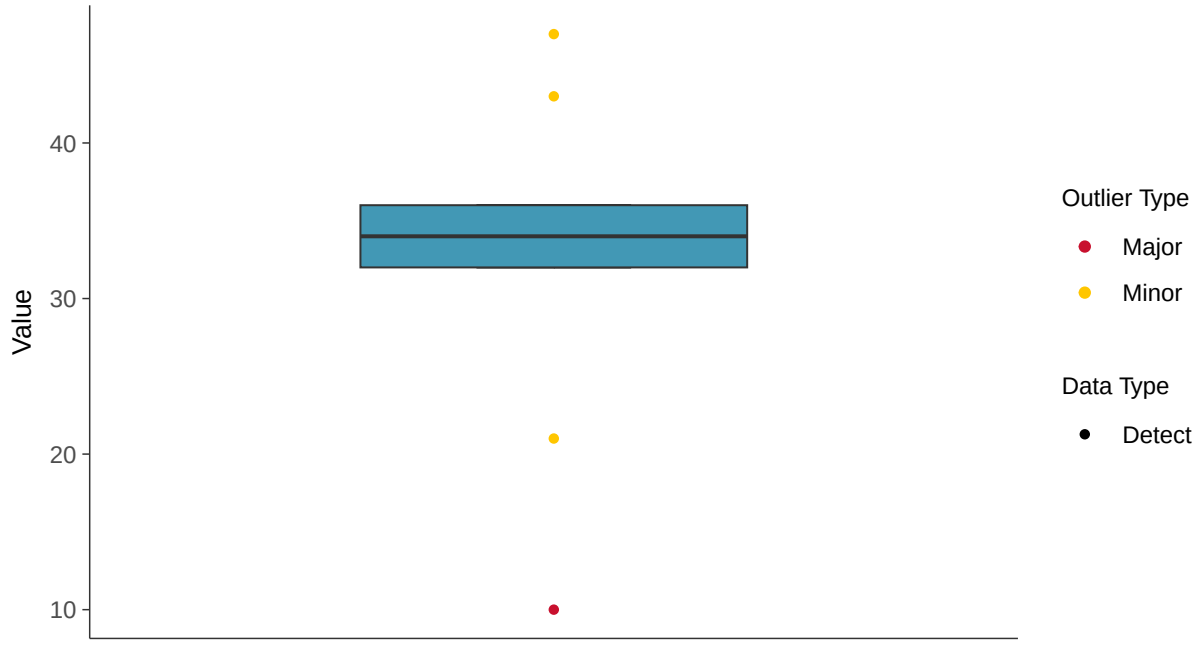
Histogram

Chloride (as Cl), MW-17 (mg/L)



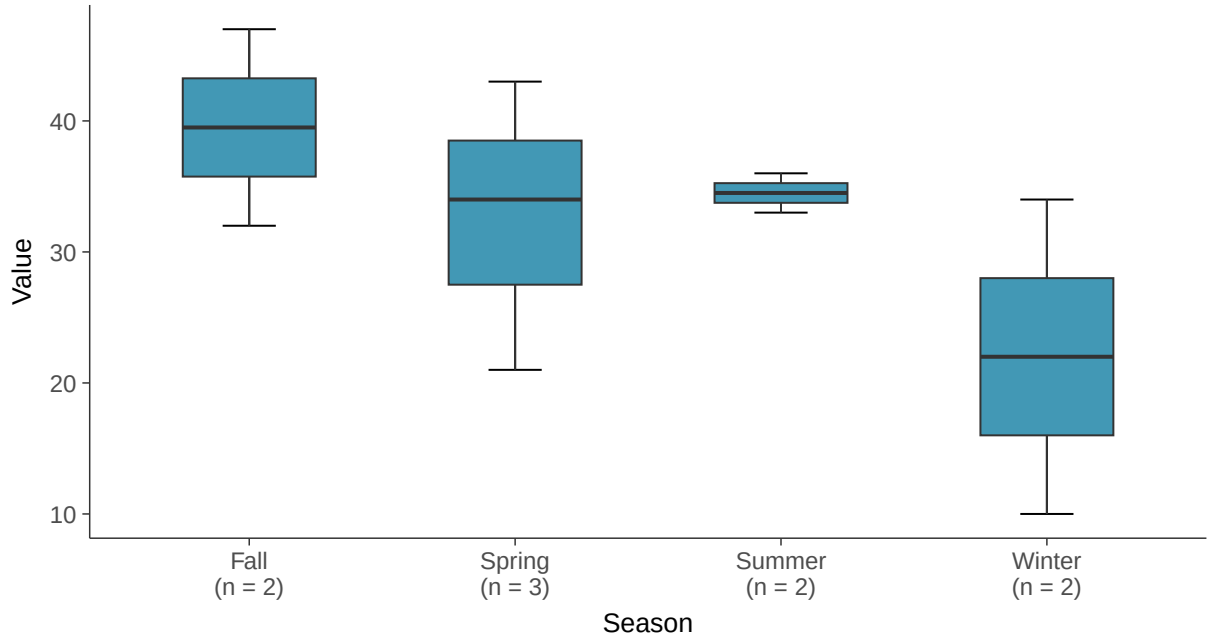
Boxplot

Chloride (as Cl), MW-17 (mg/L)



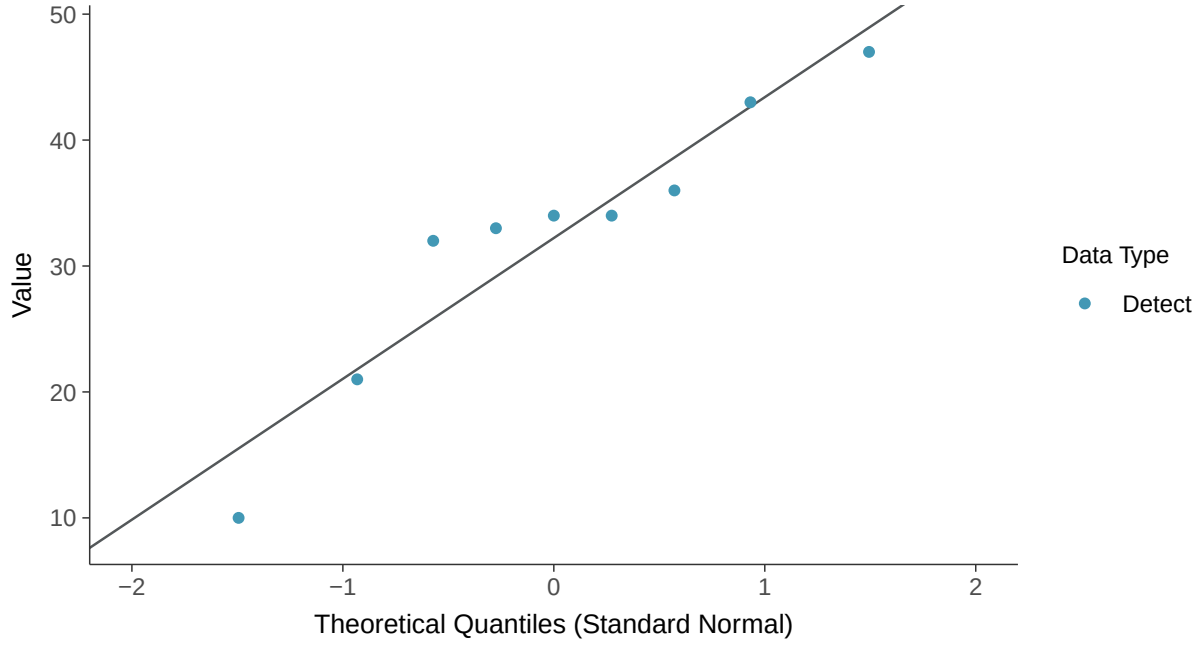
Boxplot by Season

Chloride (as Cl), MW-17 (mg/L)



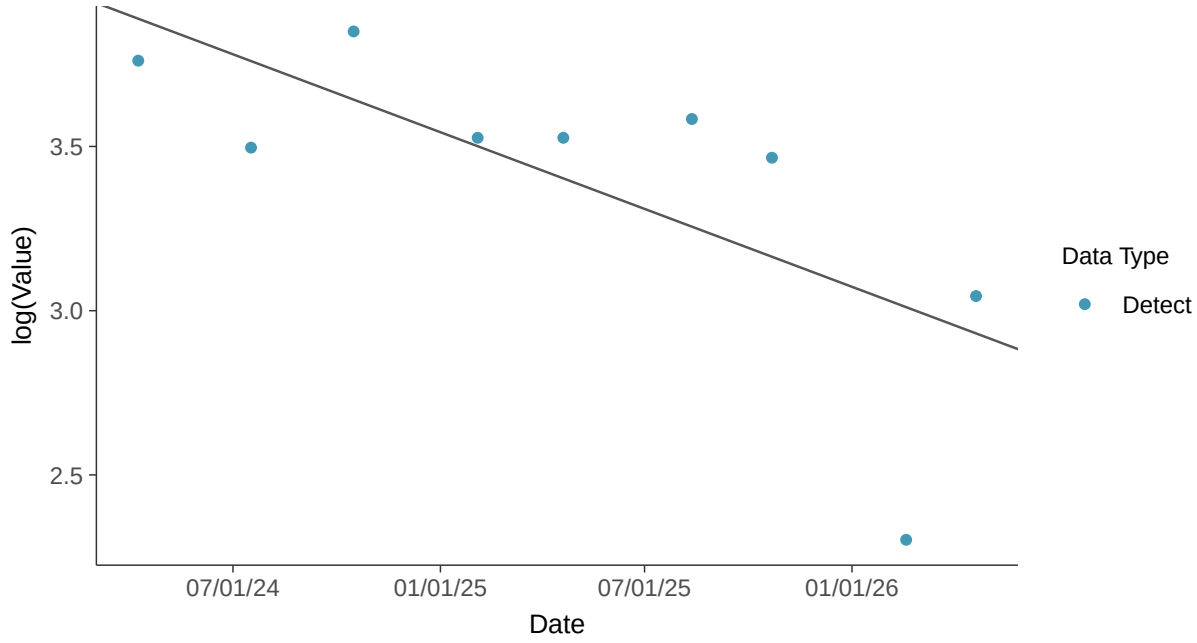
Normal Q-Q plot

Chloride (as Cl), MW-17 (mg/L)



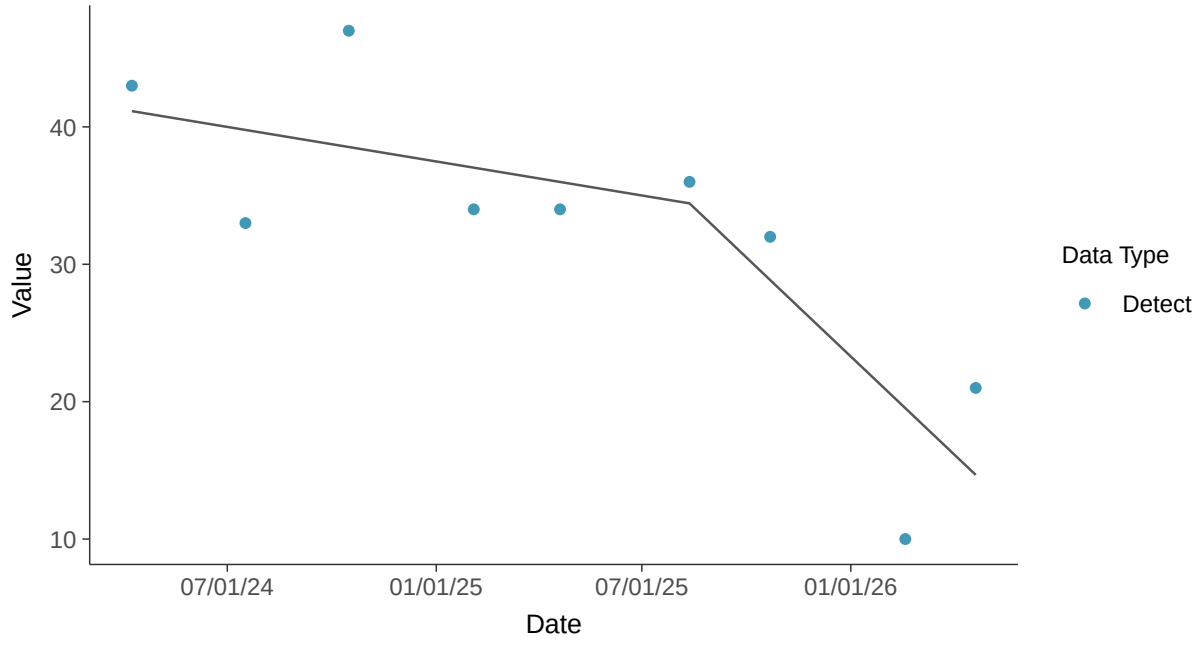
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-17 (mg/L)



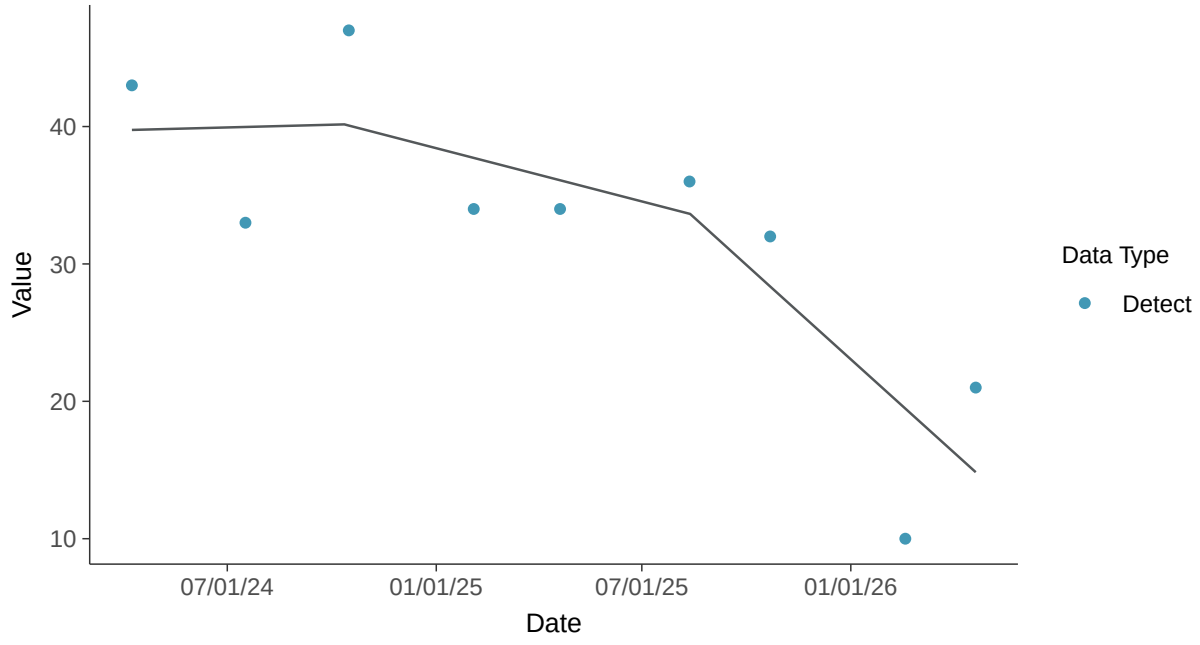
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-17 (mg/L)

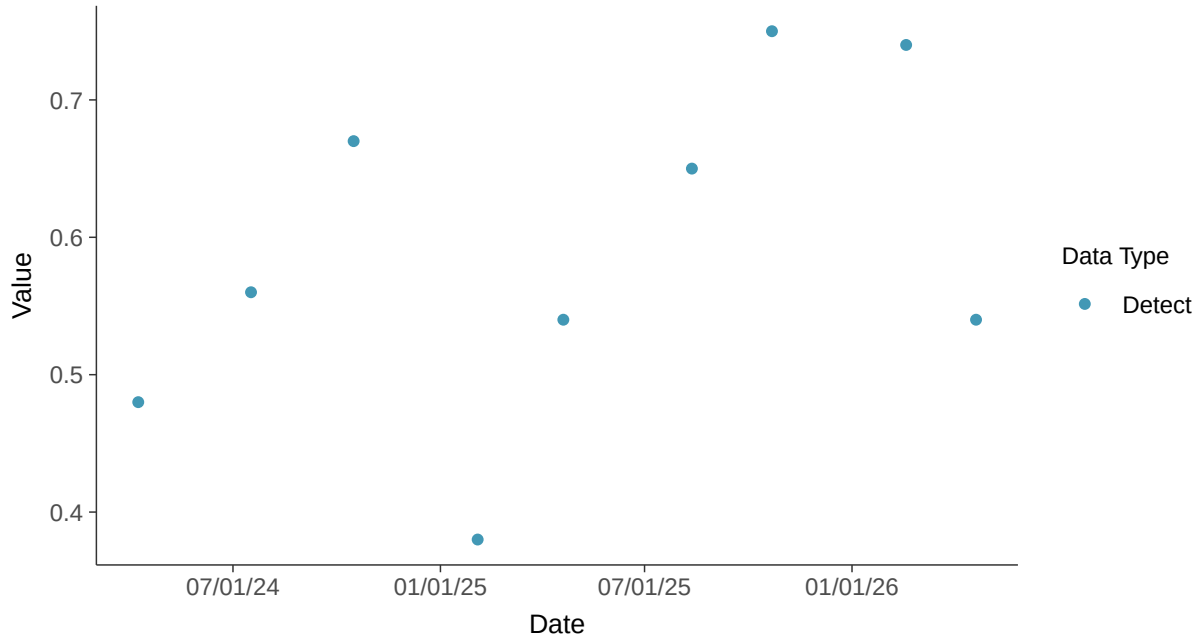


Appendix III: Fluoride, MW-17

ID: 27_1_3_112

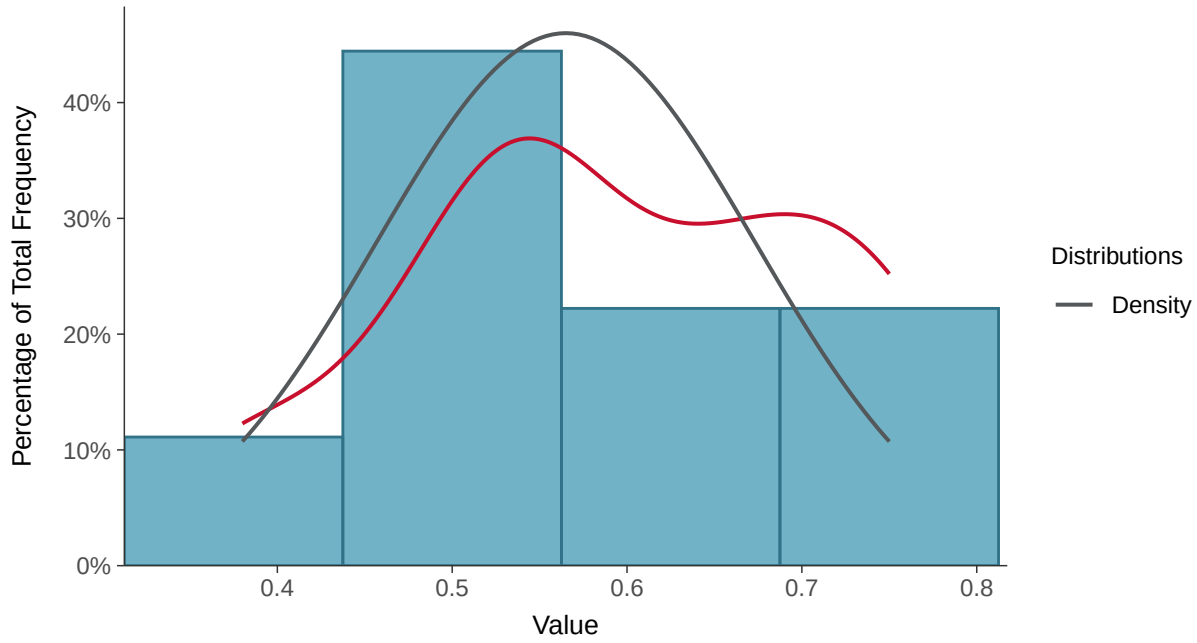
Scatter Plot

Fluoride, MW-17 (mg/L)



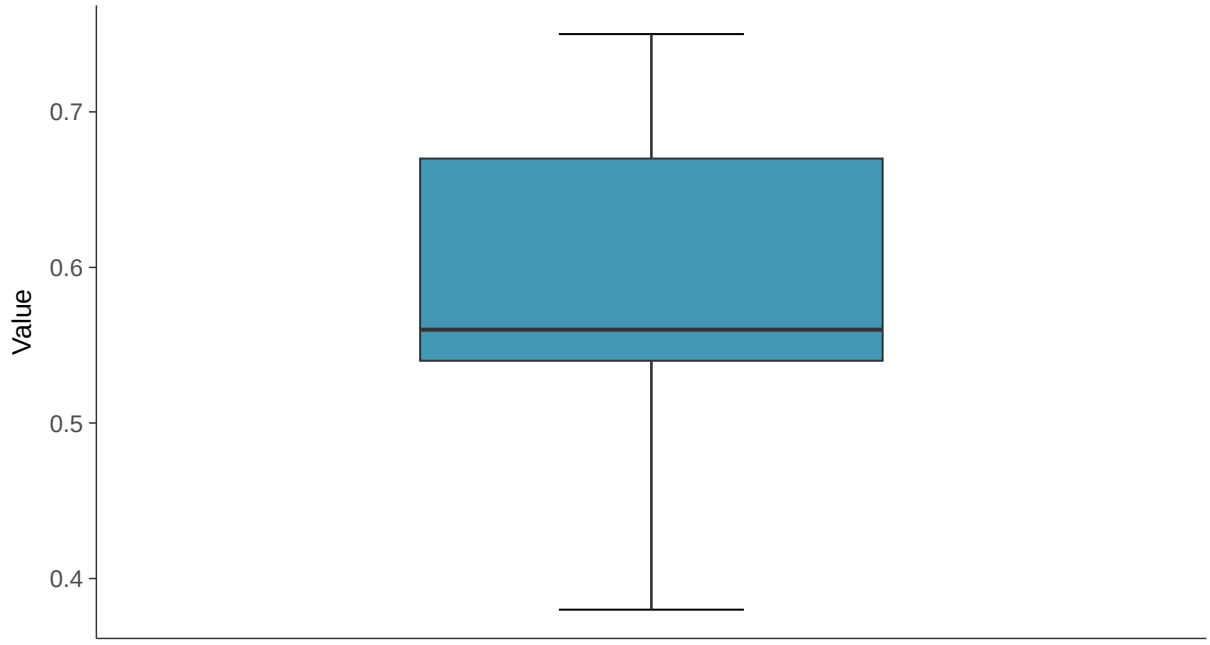
Histogram

Fluoride, MW-17 (mg/L)



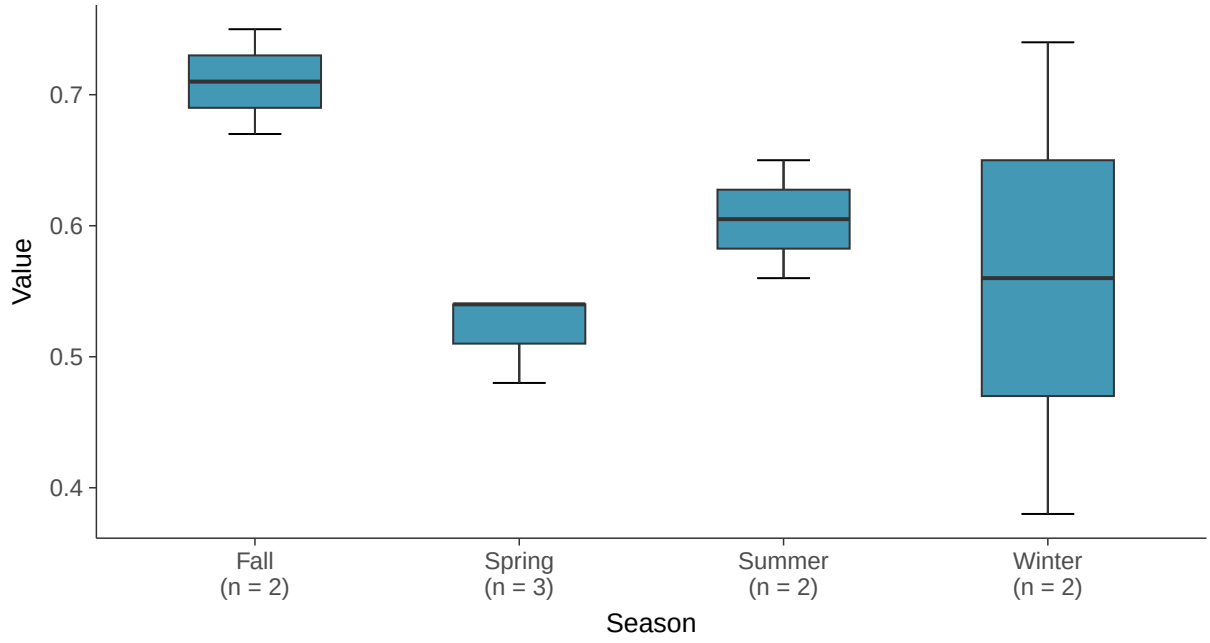
Boxplot

Fluoride, MW-17 (mg/L)



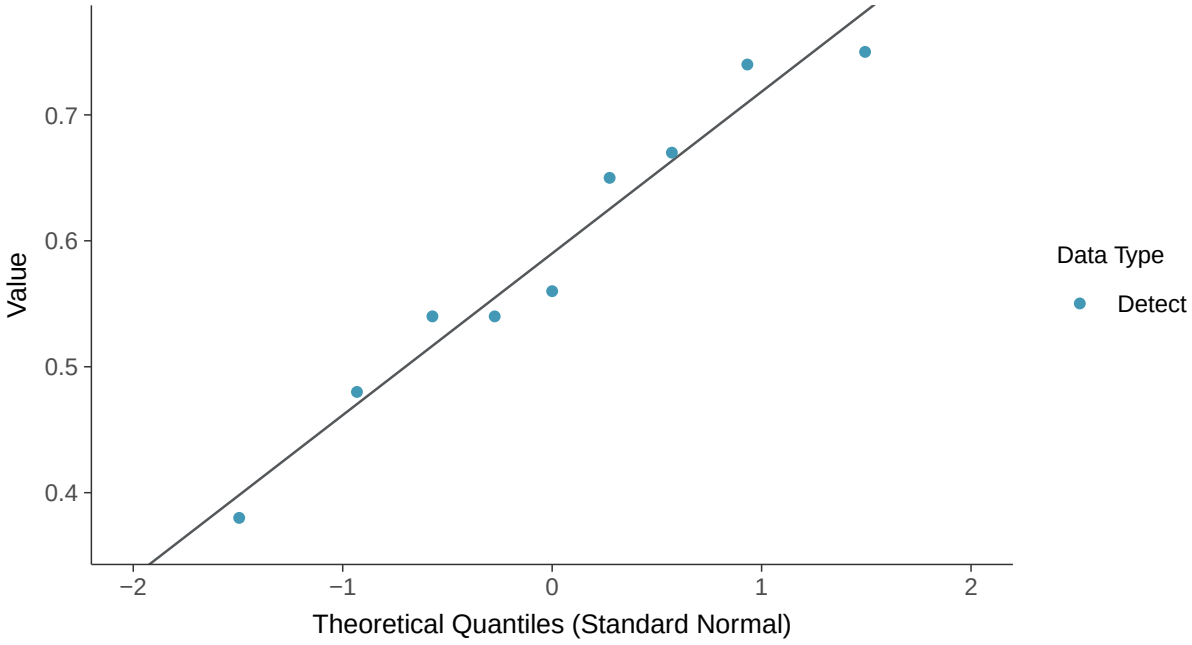
Boxplot by Season

Fluoride, MW-17 (mg/L)



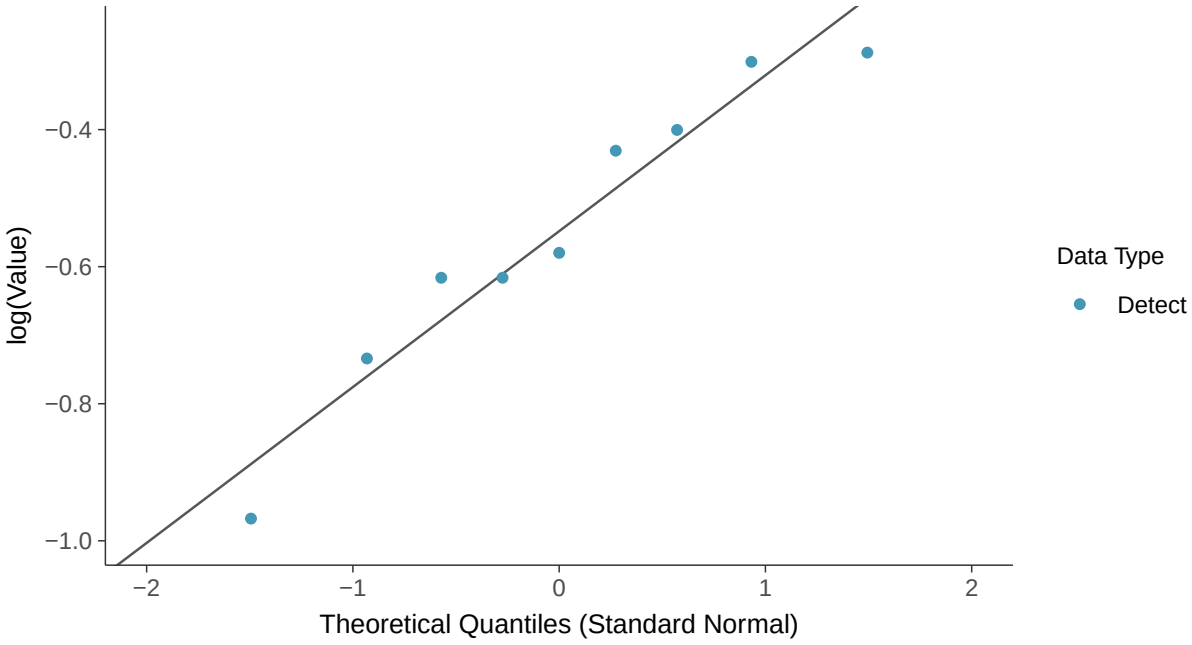
Normal Q-Q plot

Fluoride, MW-17 (mg/L)



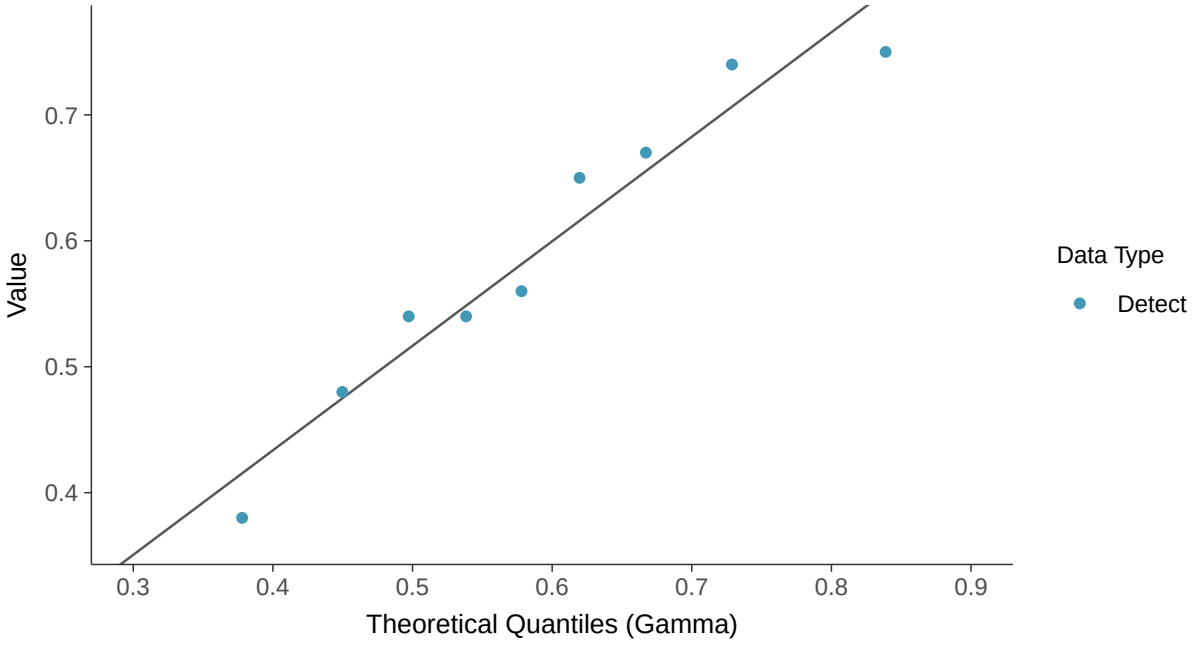
Lognormal Q-Q plot

Fluoride, MW-17 (mg/L)



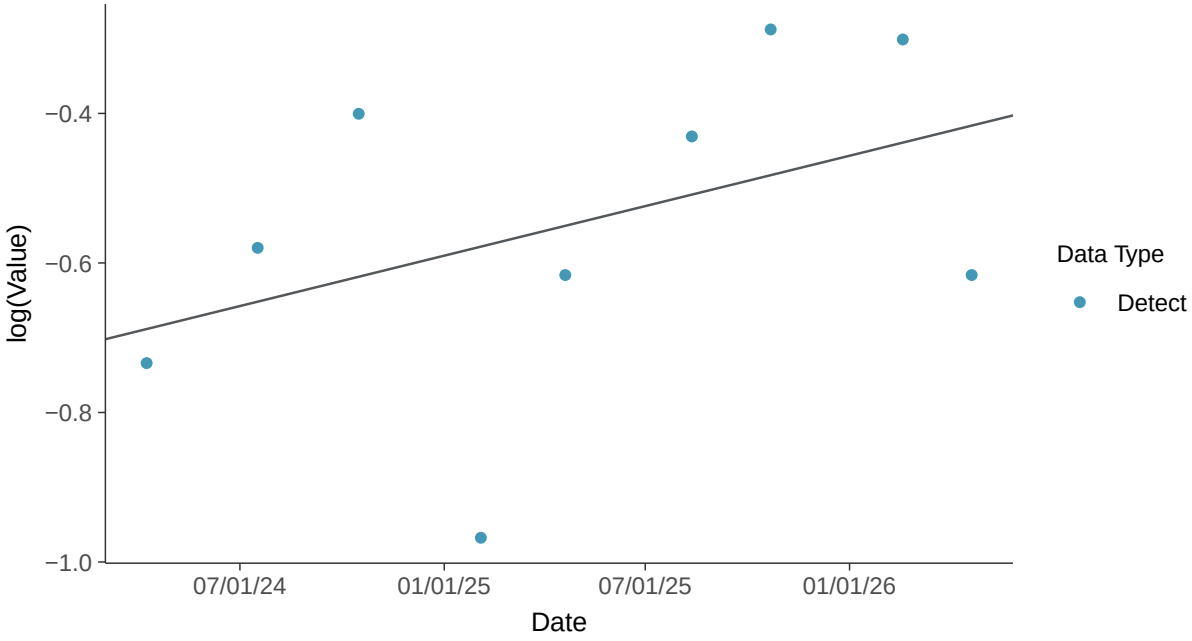
Gamma Q-Q plot

Fluoride, MW-17 (mg/L)



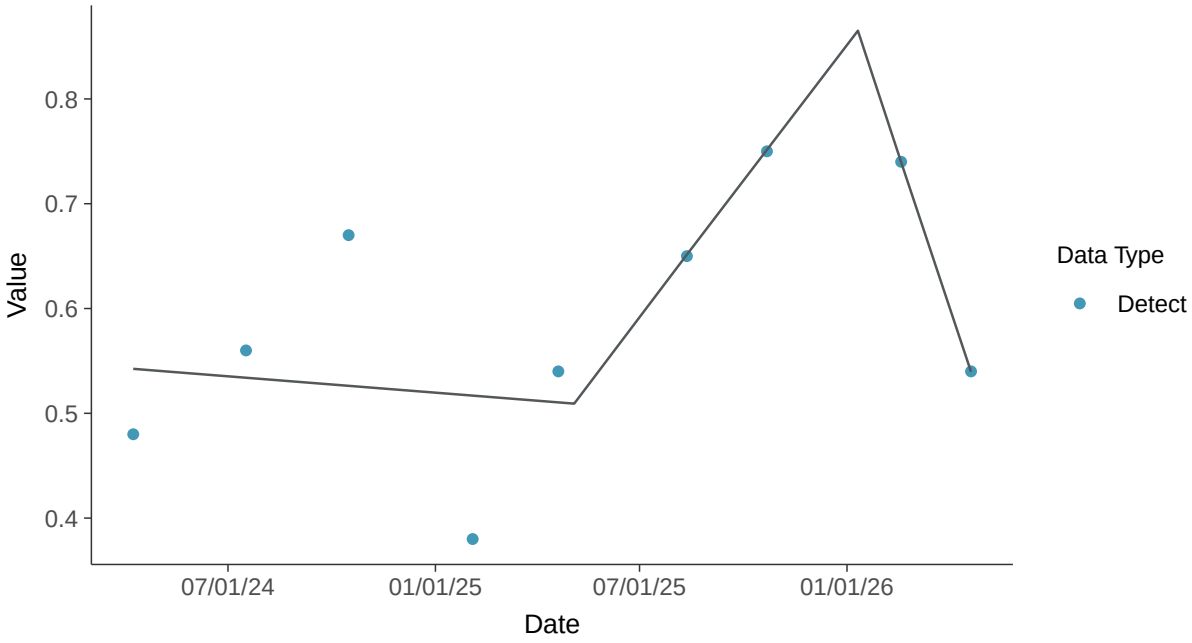
Trend Regression: Lognormal MLE

Fluoride, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-17 (mg/L)

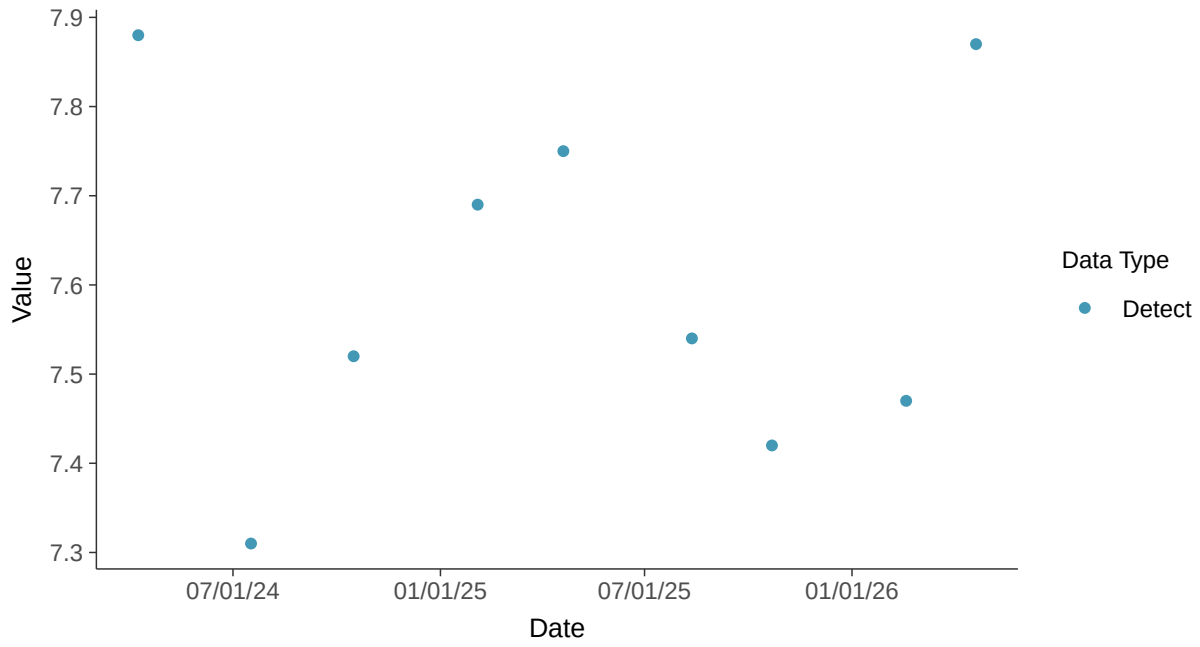


Appendix III: pH (field), MW-17

ID: 27_1_3_120

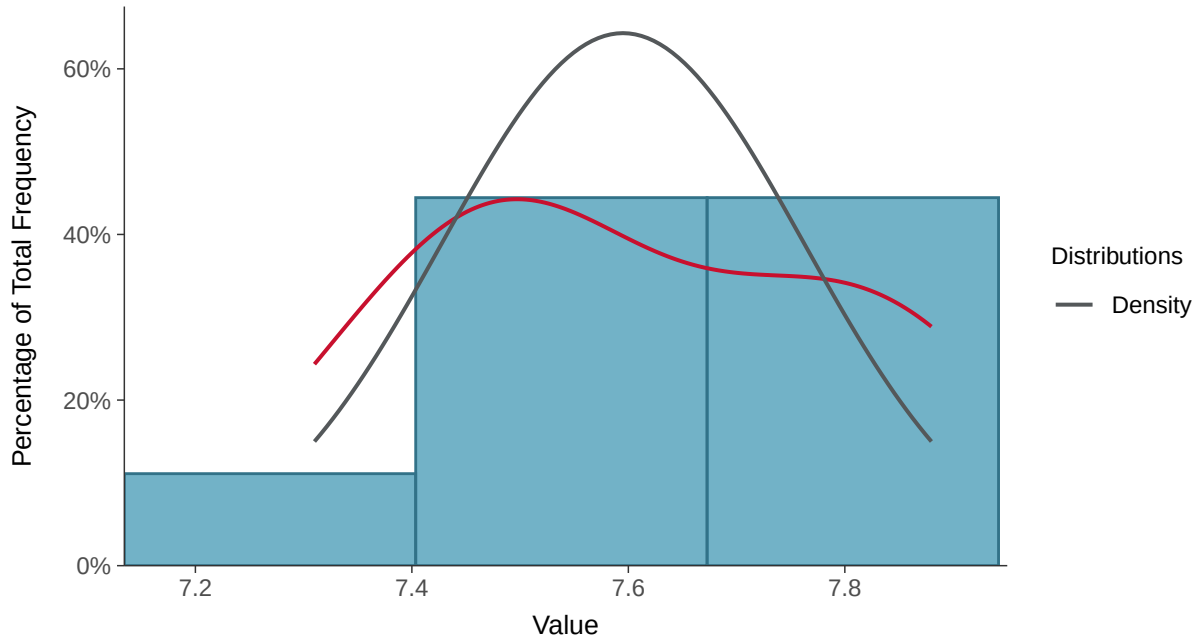
Scatter Plot

pH (field), MW-17 (su)



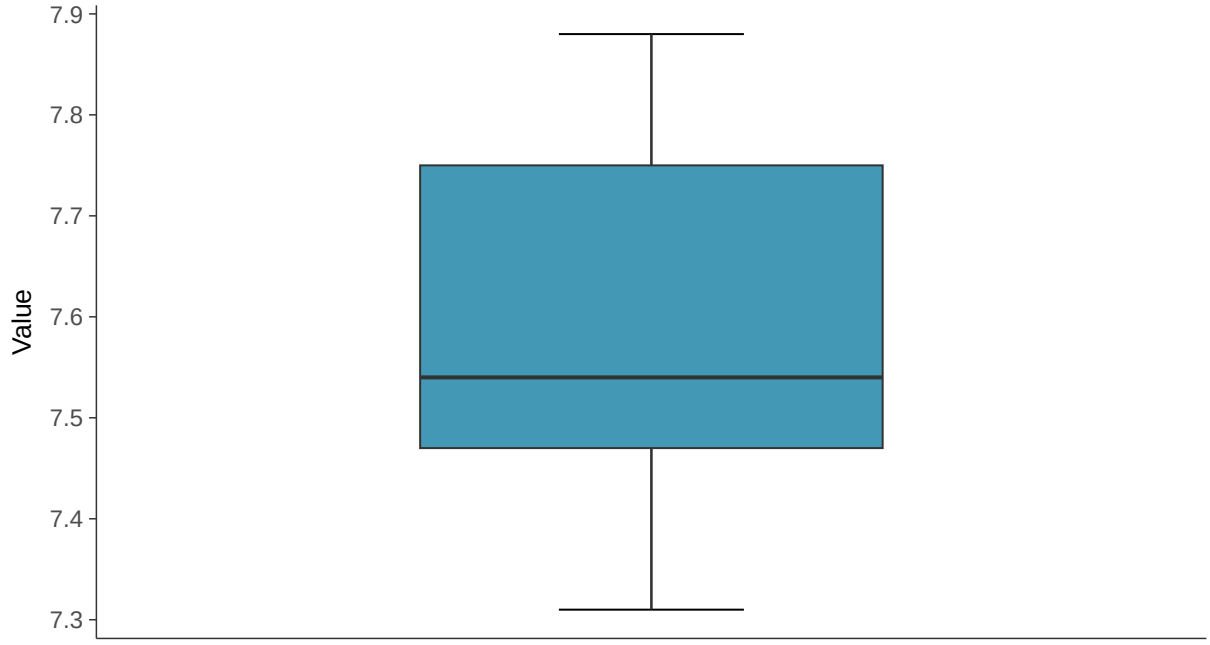
Histogram

pH (field), MW-17 (su)



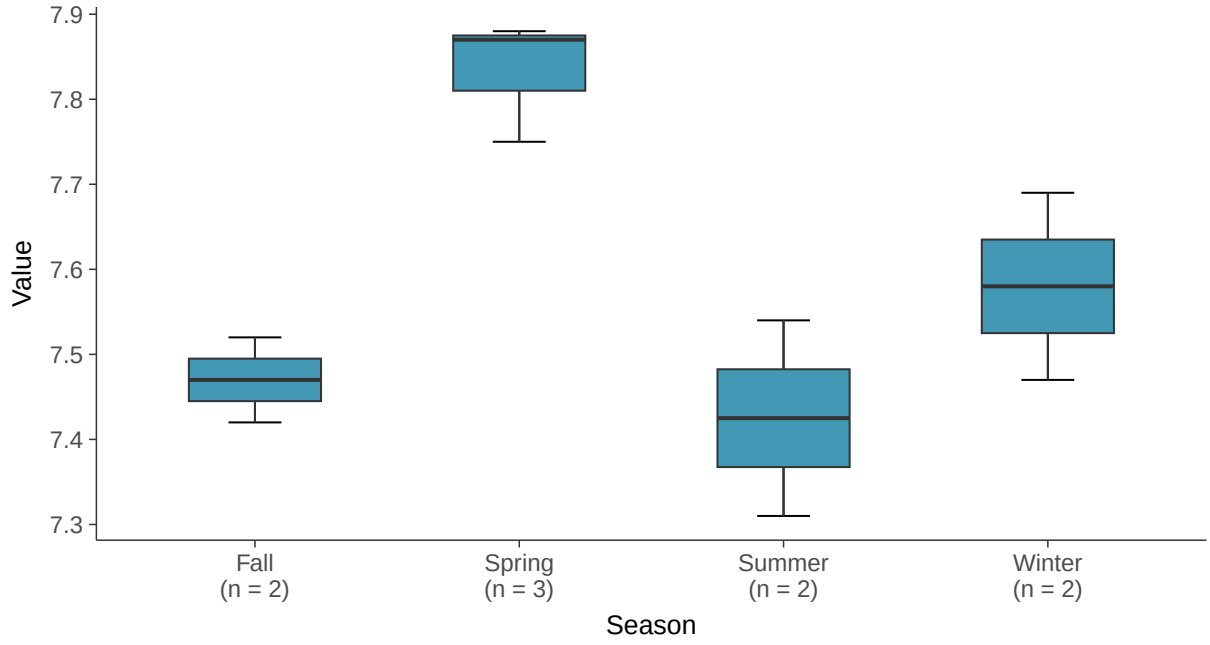
Boxplot

pH (field), MW-17 (su)



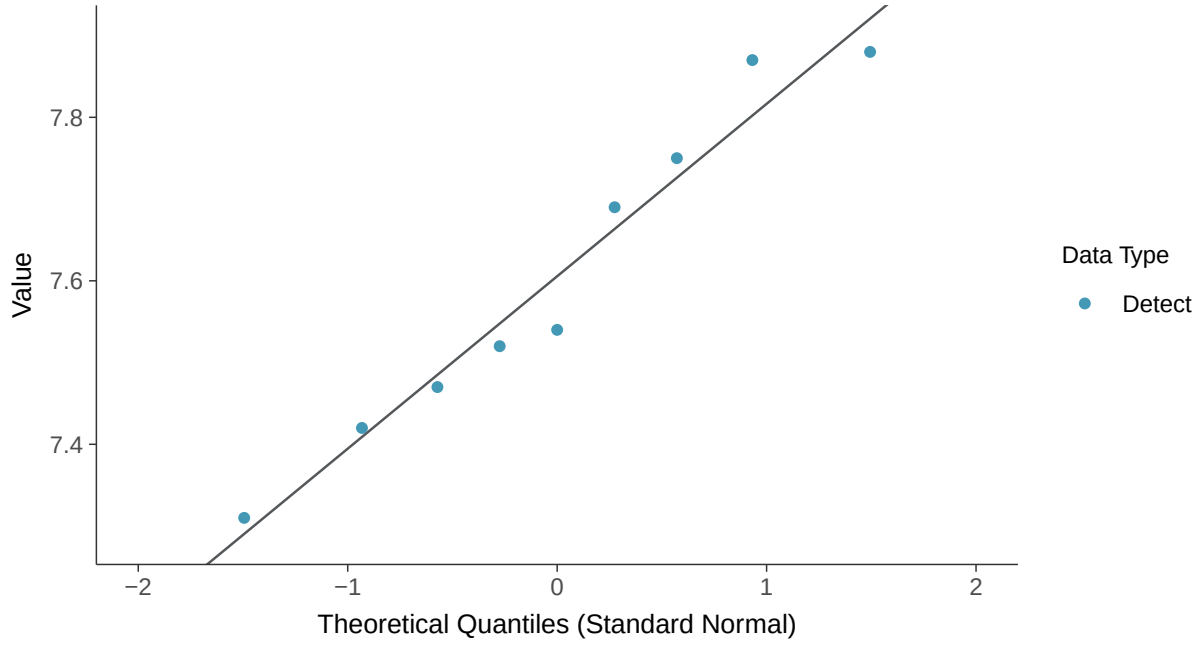
Boxplot by Season

pH (field), MW-17 (su)



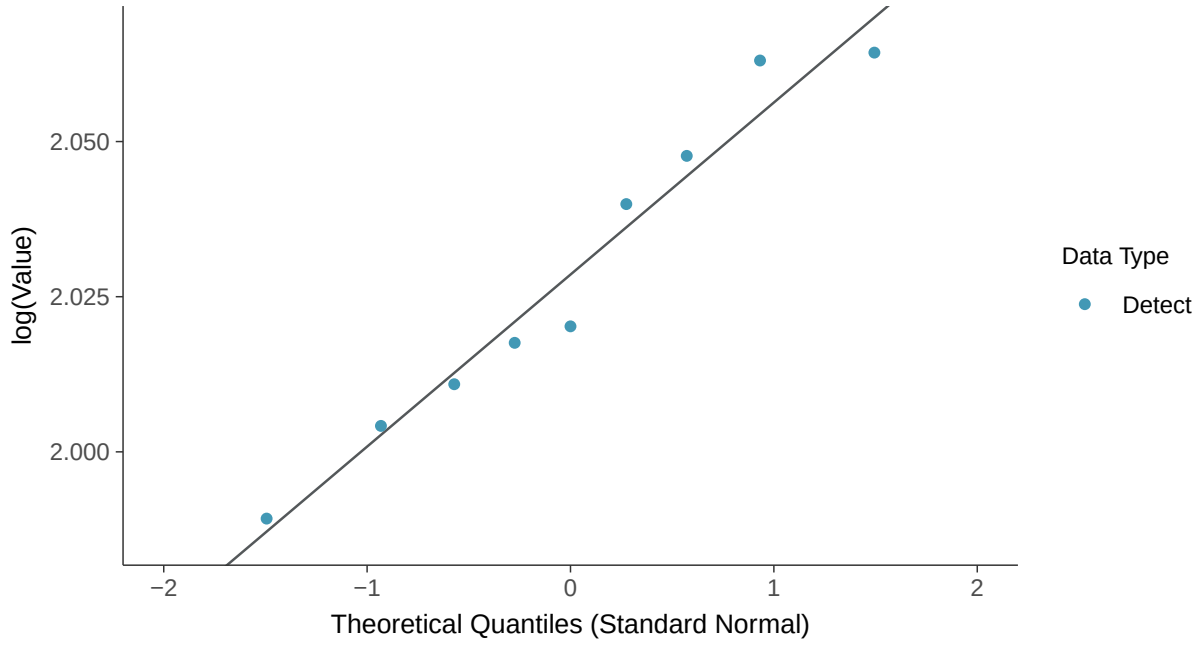
Normal Q-Q plot

pH (field), MW-17 (su)



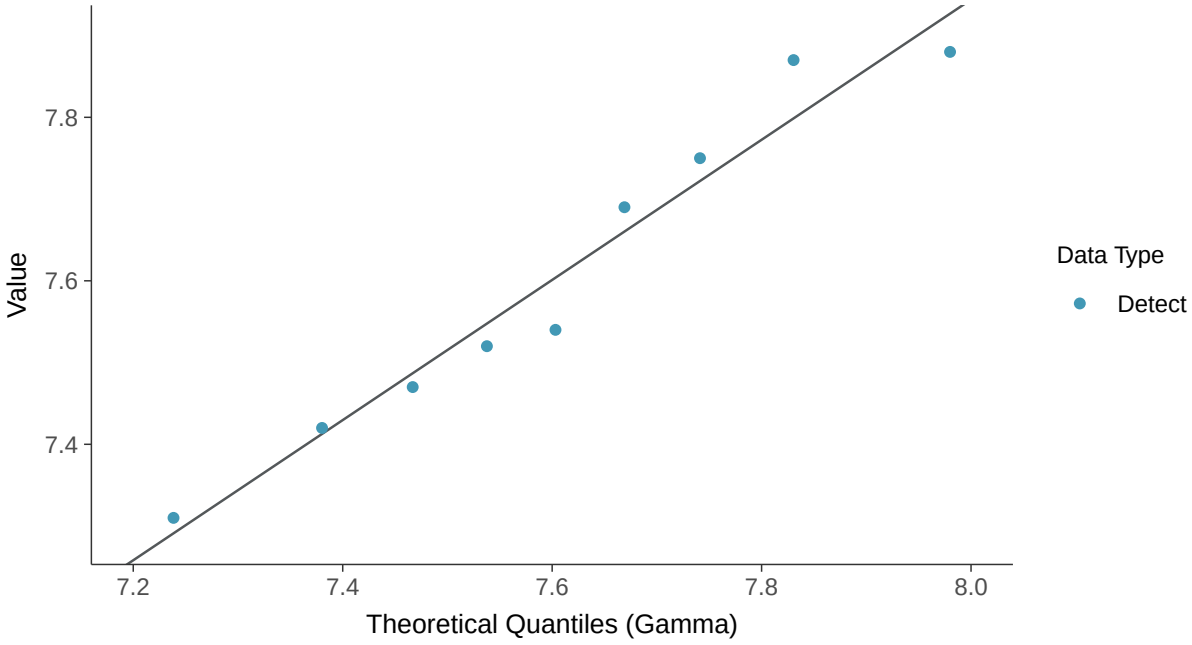
Lognormal Q-Q plot

pH (field), MW-17 (su)



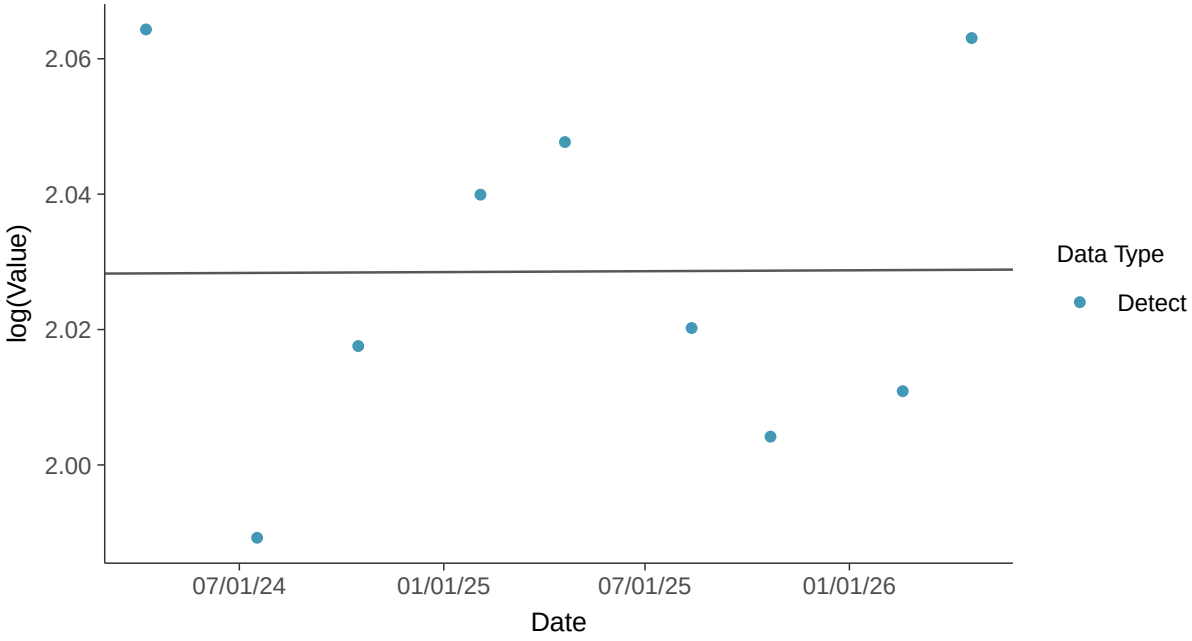
Gamma Q-Q plot

pH (field), MW-17 (su)



Trend Regression: Lognormal MLE

pH (field), MW-17 (su)

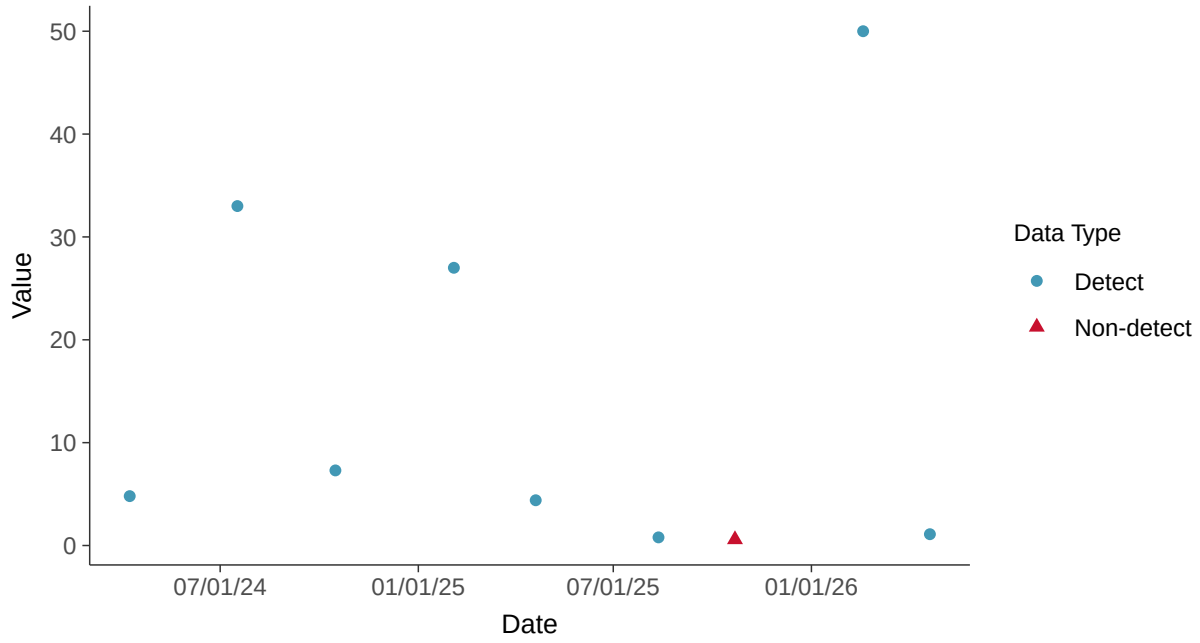


Appendix III: Sulfate (as SO4), MW-17

ID: 27_1_3_124

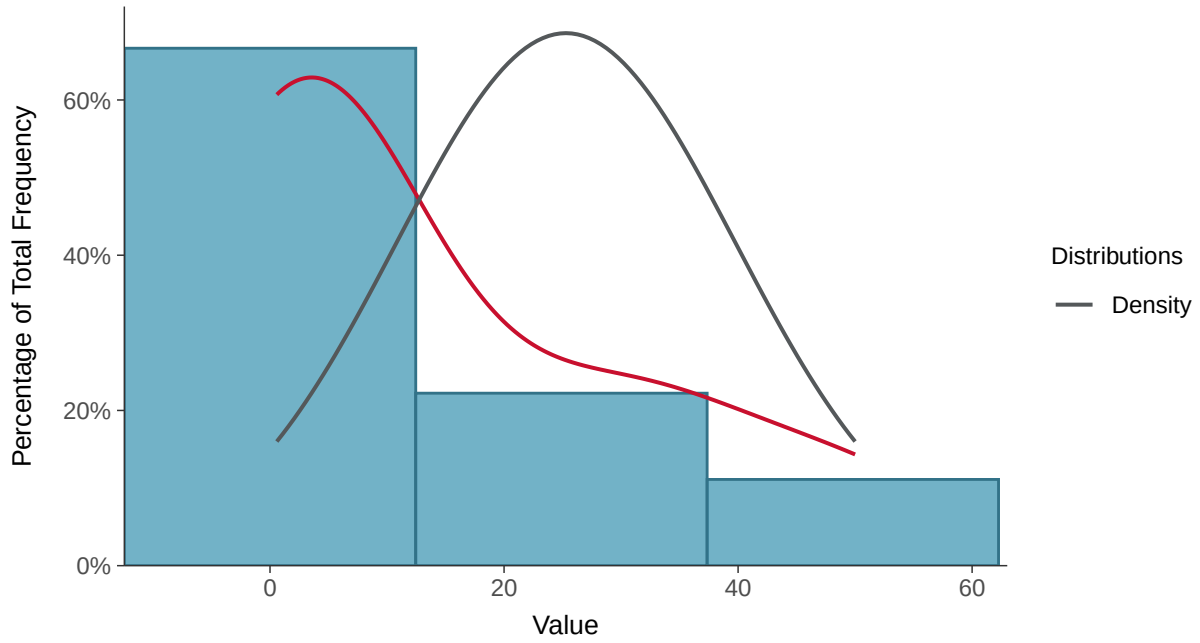
Scatter Plot

Sulfate (as SO4), MW-17 (mg/L)



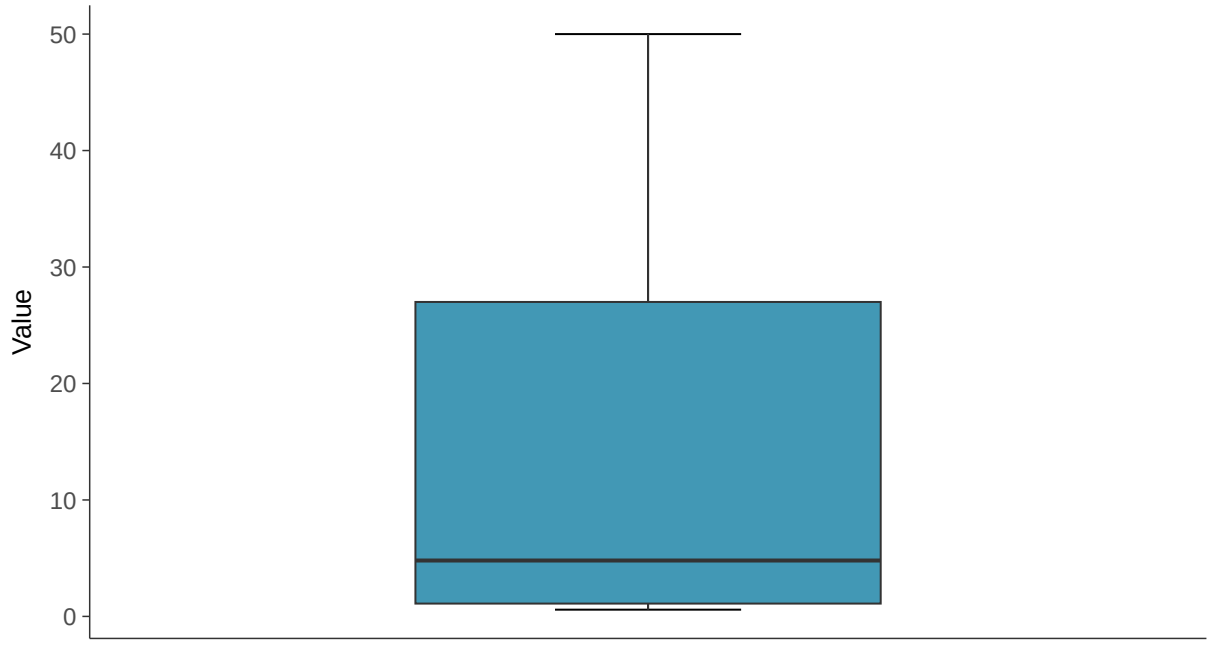
Histogram

Sulfate (as SO4), MW-17 (mg/L)



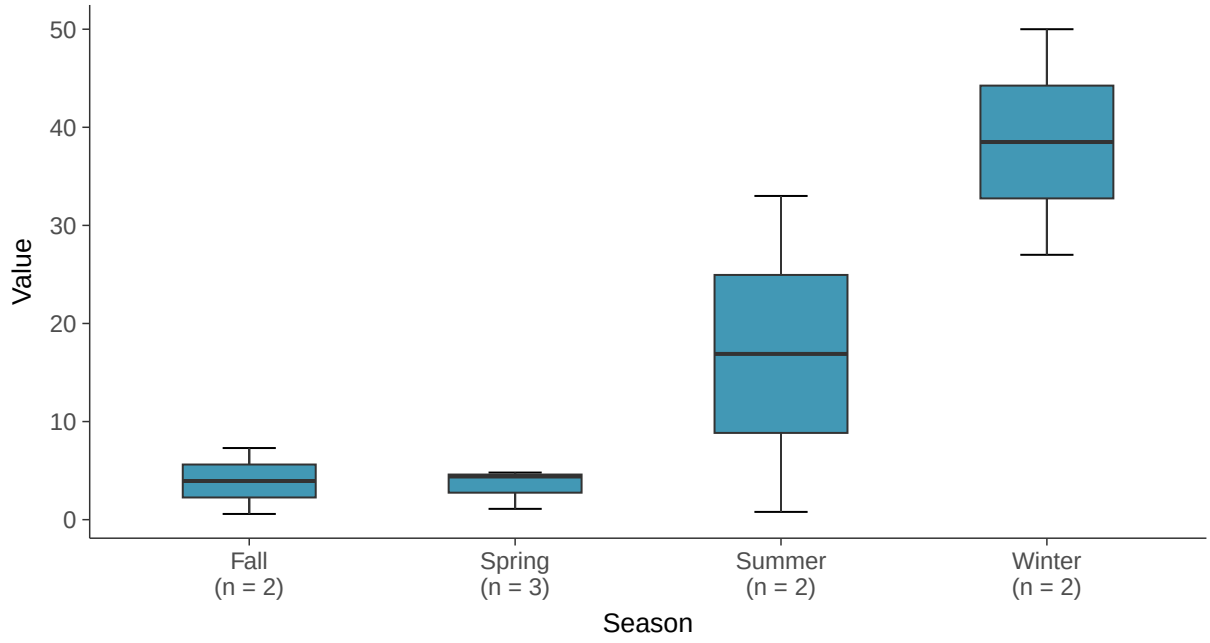
Boxplot

Sulfate (as SO4), MW-17 (mg/L)



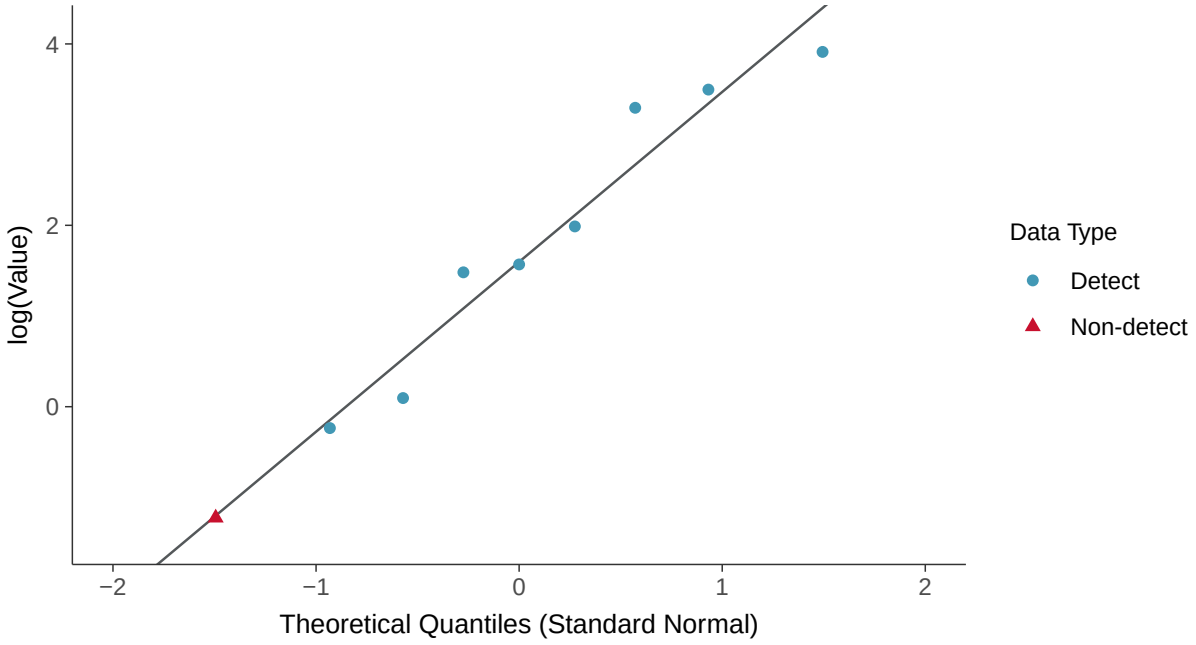
Boxplot by Season

Sulfate (as SO4), MW-17 (mg/L)



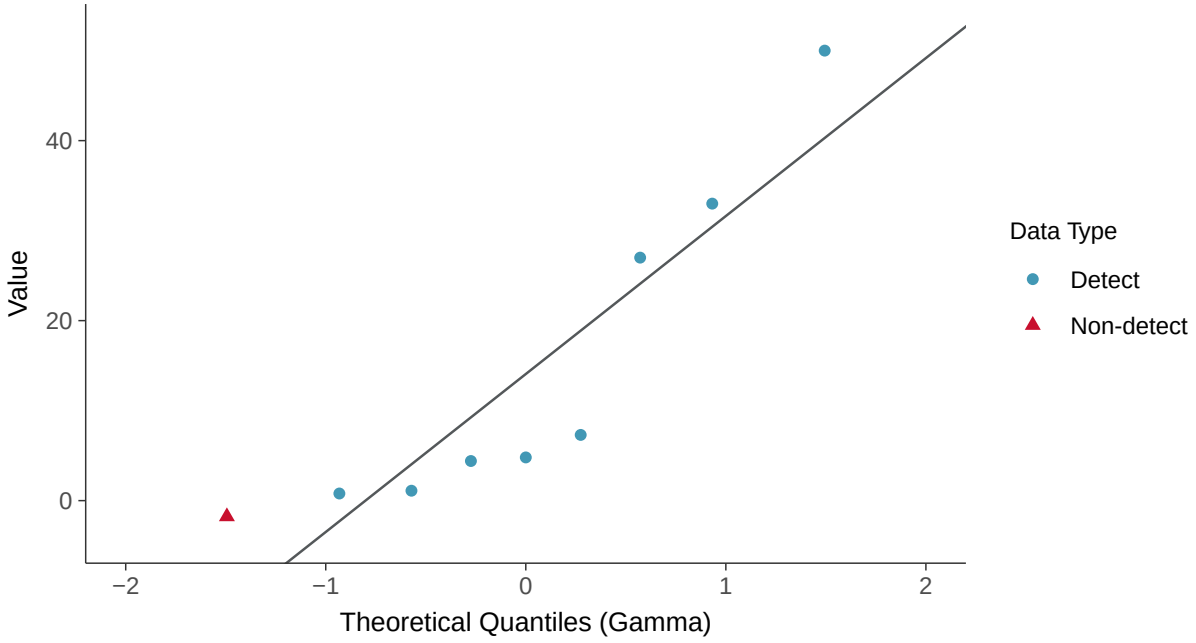
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-17 (mg/L)



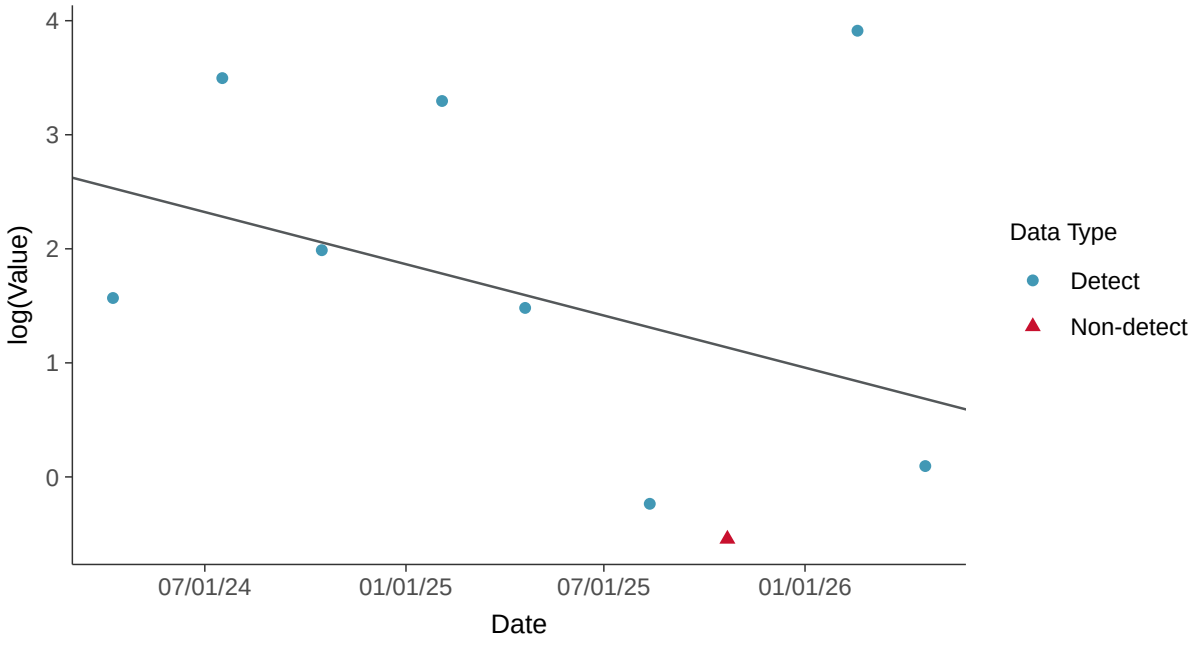
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-17 (mg/L)



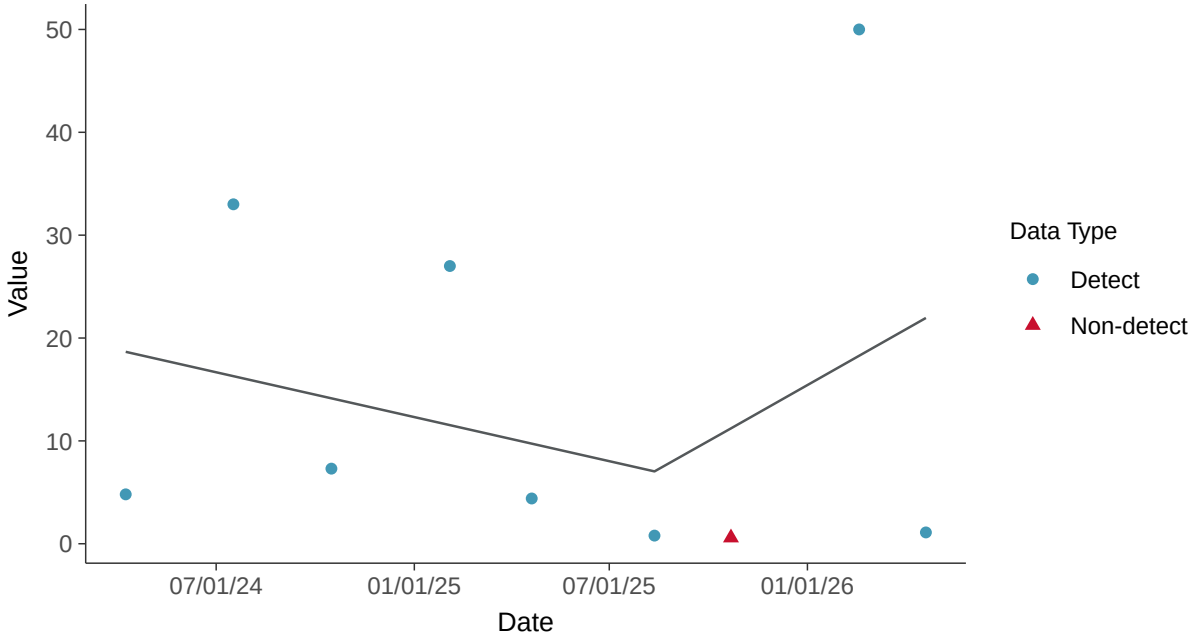
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-17 (mg/L)

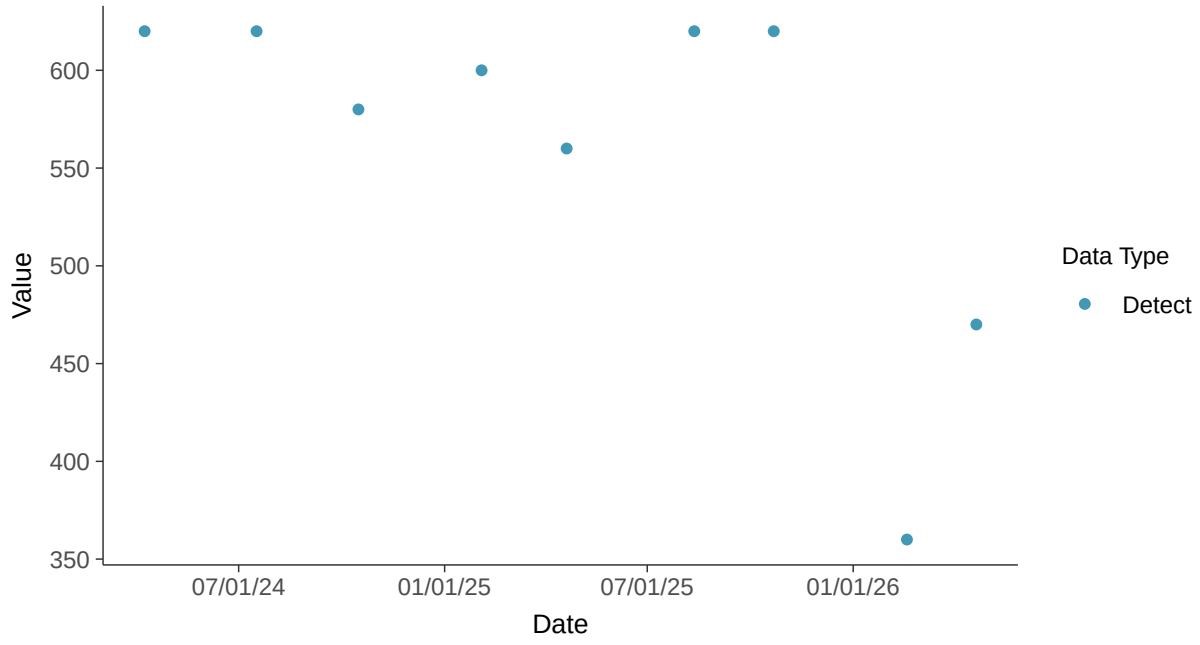


Appendix III: Total Dissolved Solids, MW-17

ID: 27_1_3_126

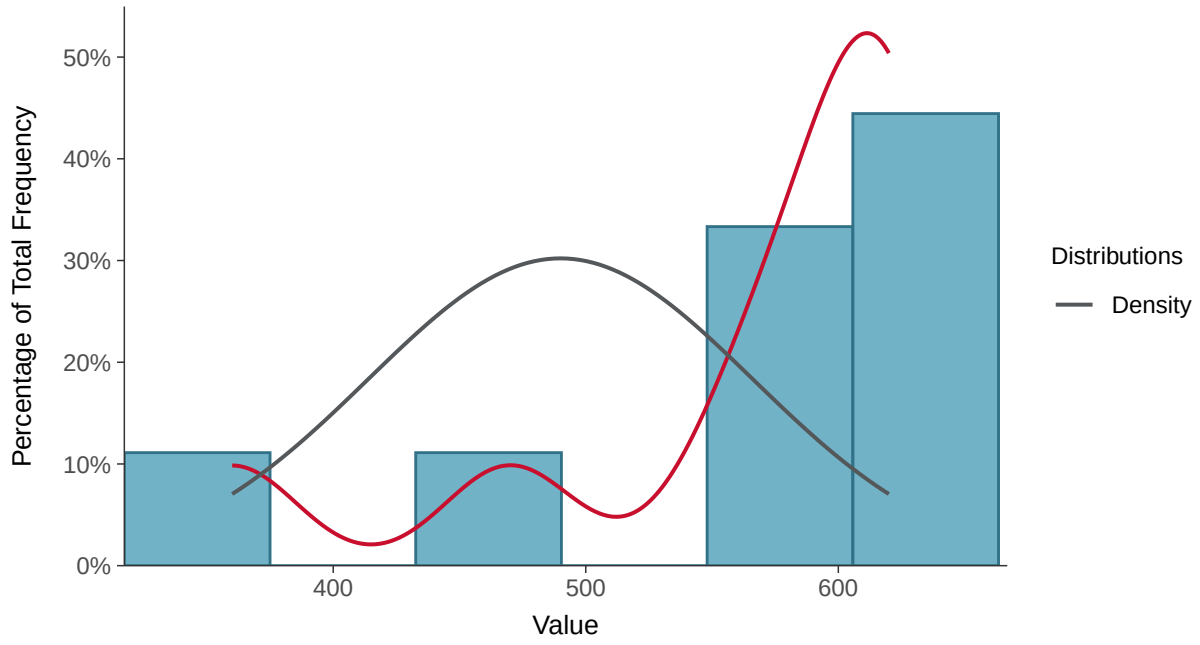
Scatter Plot

Total Dissolved Solids, MW-17 (mg/L)



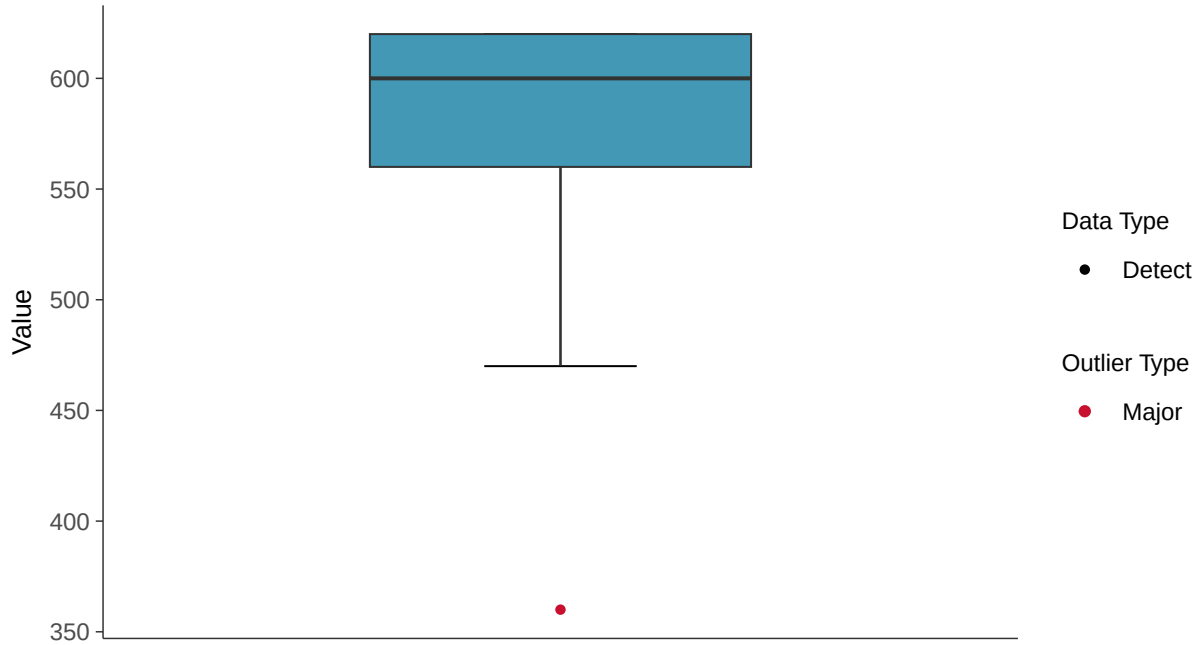
Histogram

Total Dissolved Solids, MW-17 (mg/L)



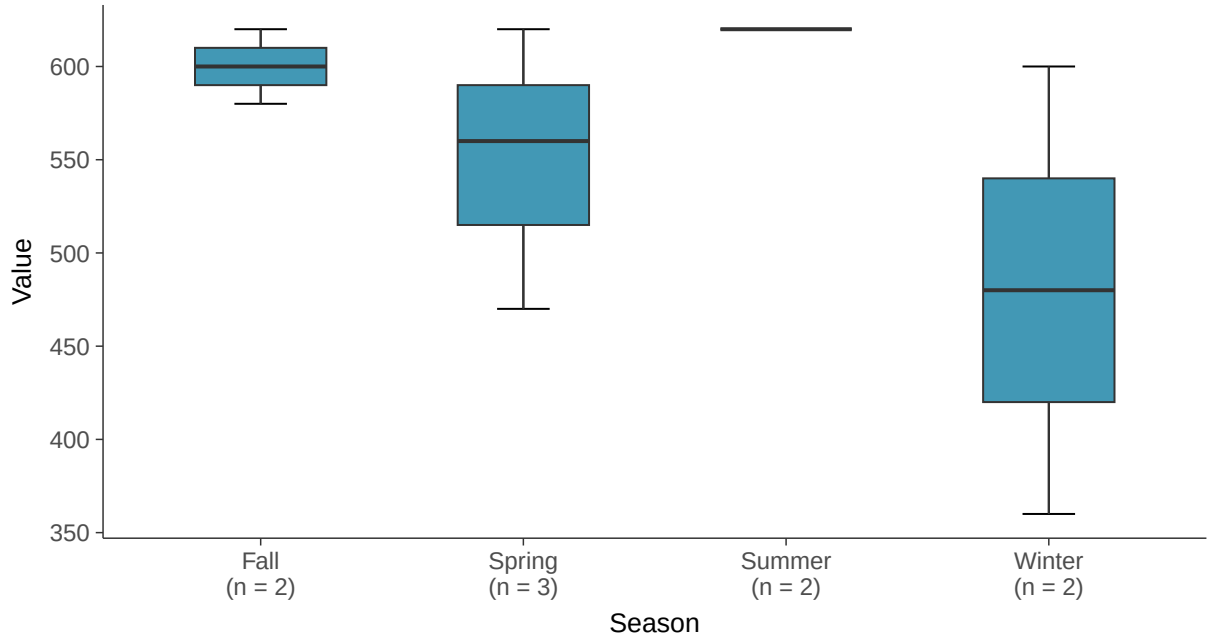
Boxplot

Total Dissolved Solids, MW-17 (mg/L)



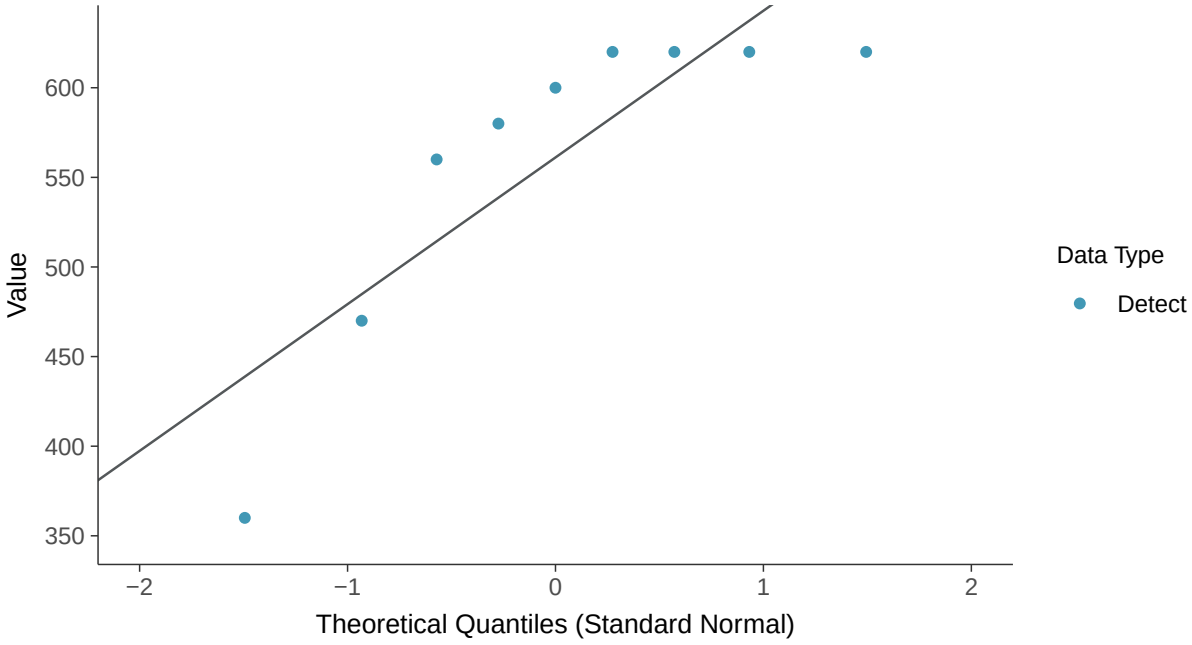
Boxplot by Season

Total Dissolved Solids, MW-17 (mg/L)



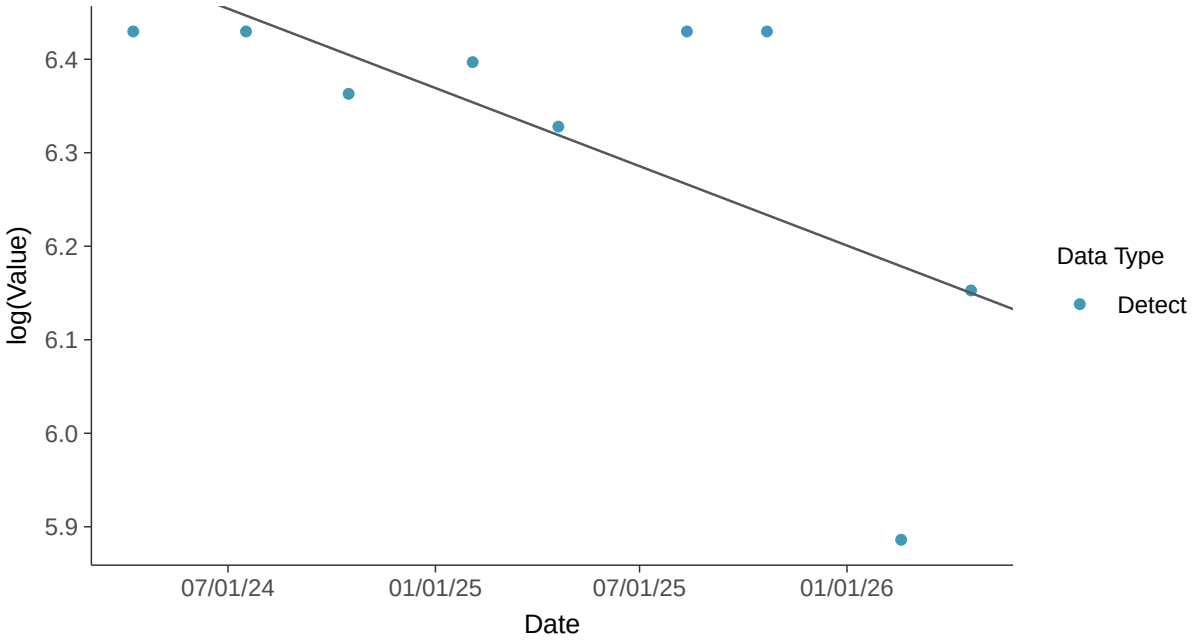
Normal Q-Q plot

Total Dissolved Solids, MW-17 (mg/L)



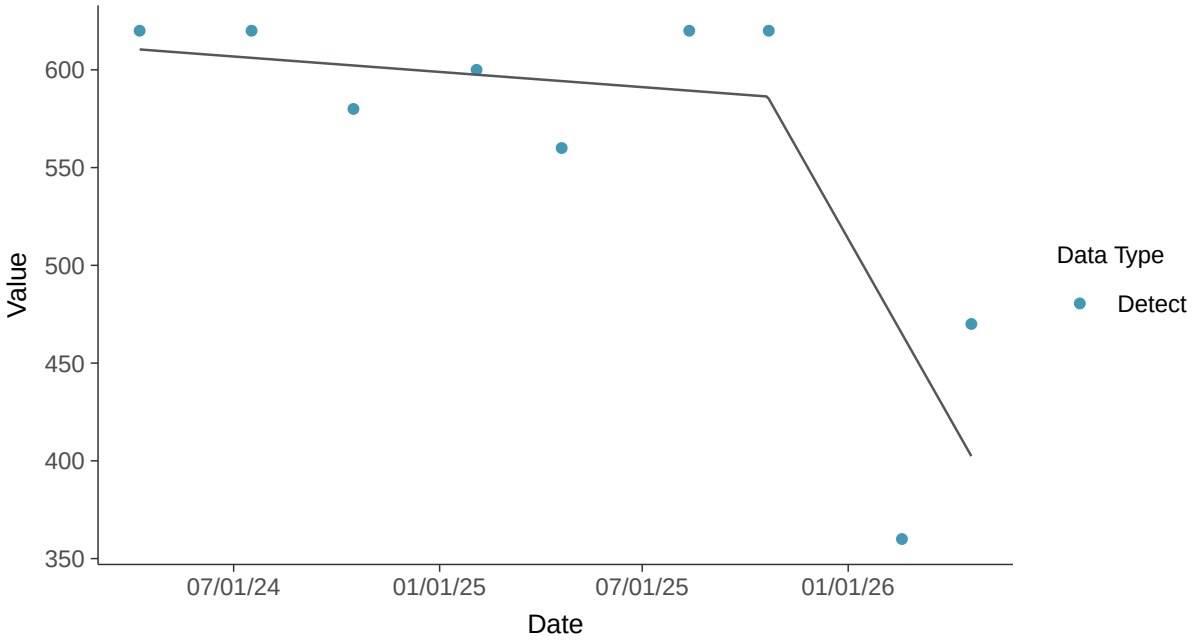
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-17 (mg/L)

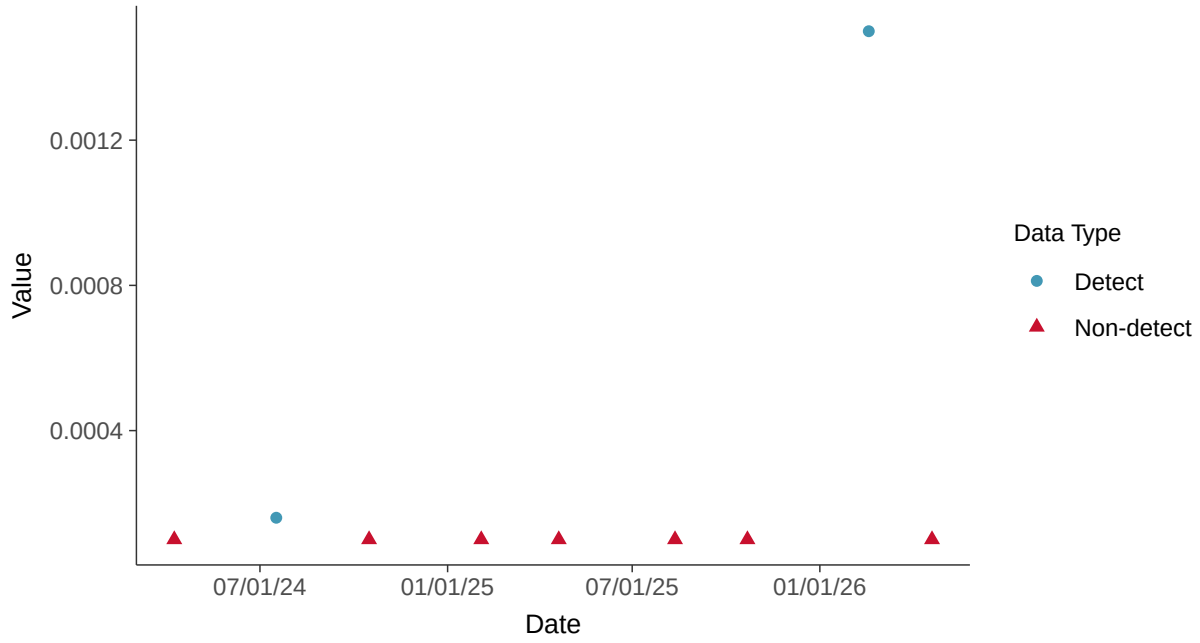


Appendix IV: Antimony, MW-17

ID: 27_1_4_101

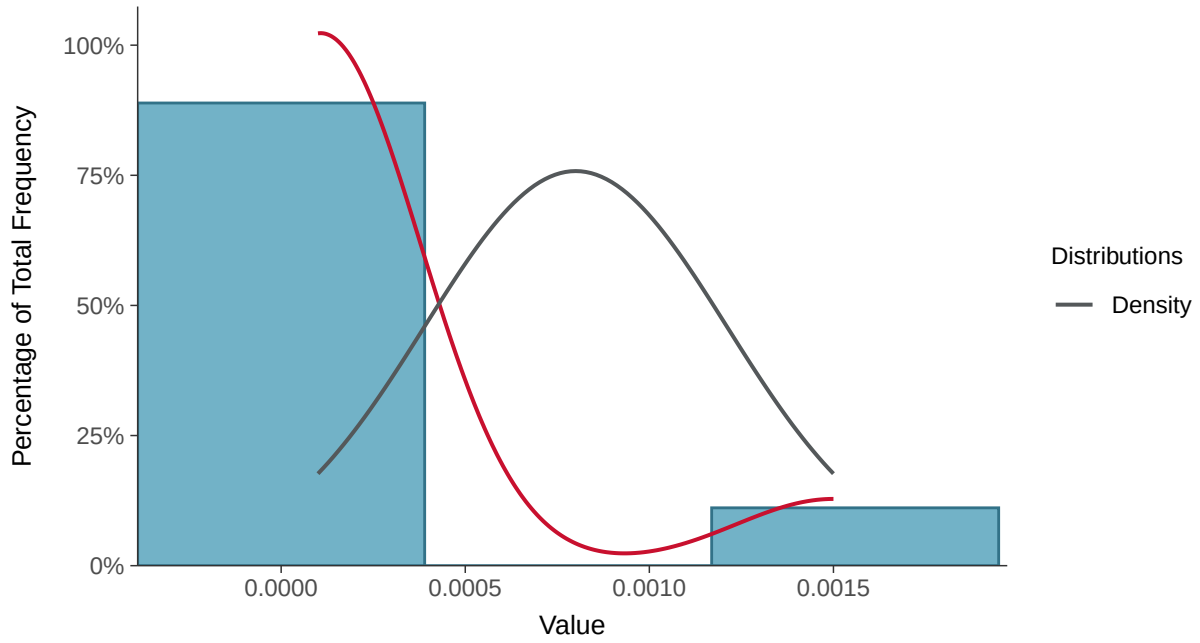
Scatter Plot

Antimony, MW-17 (mg/L)



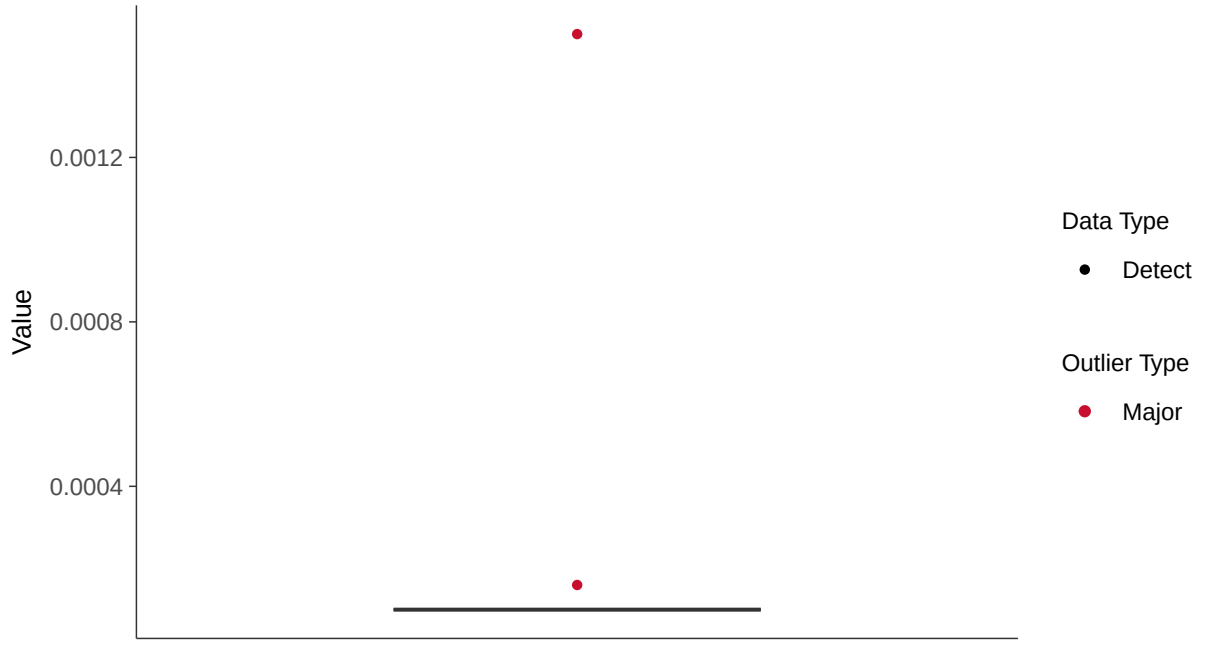
Histogram

Antimony, MW-17 (mg/L)



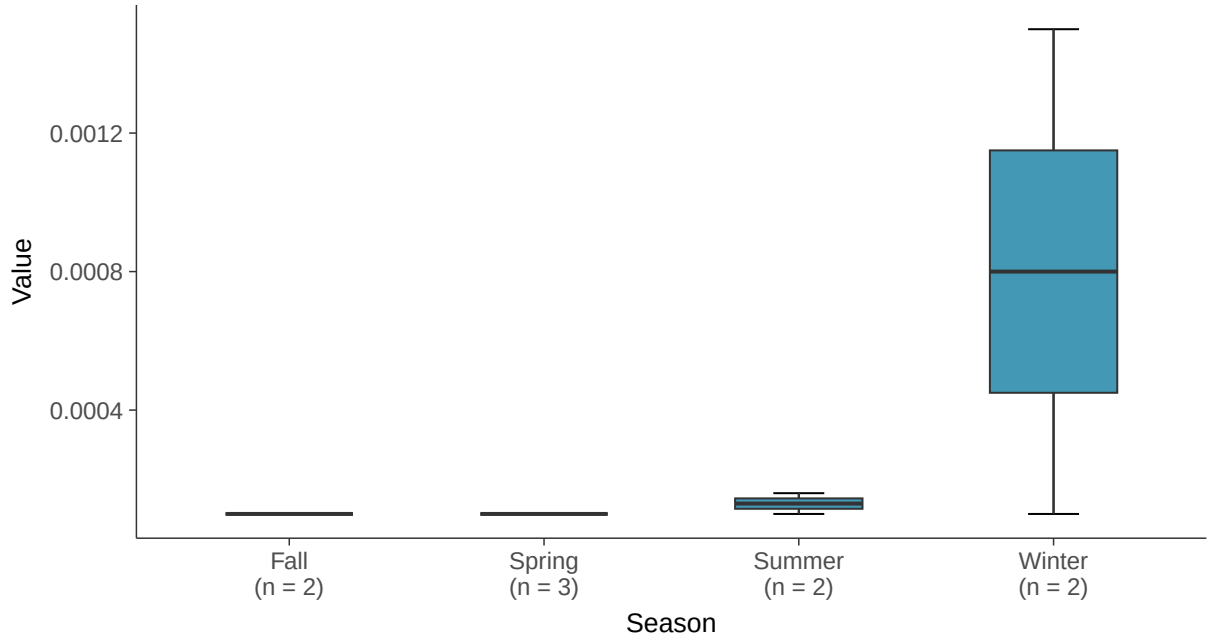
Boxplot

Antimony, MW-17 (mg/L)



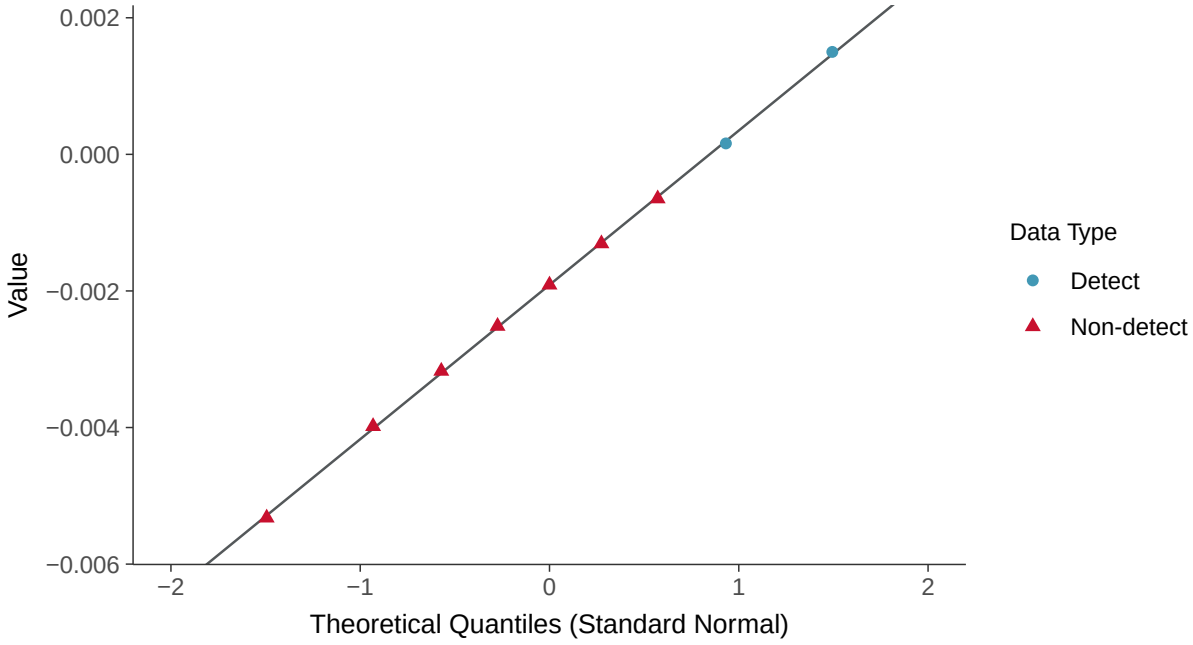
Boxplot by Season

Antimony, MW-17 (mg/L)



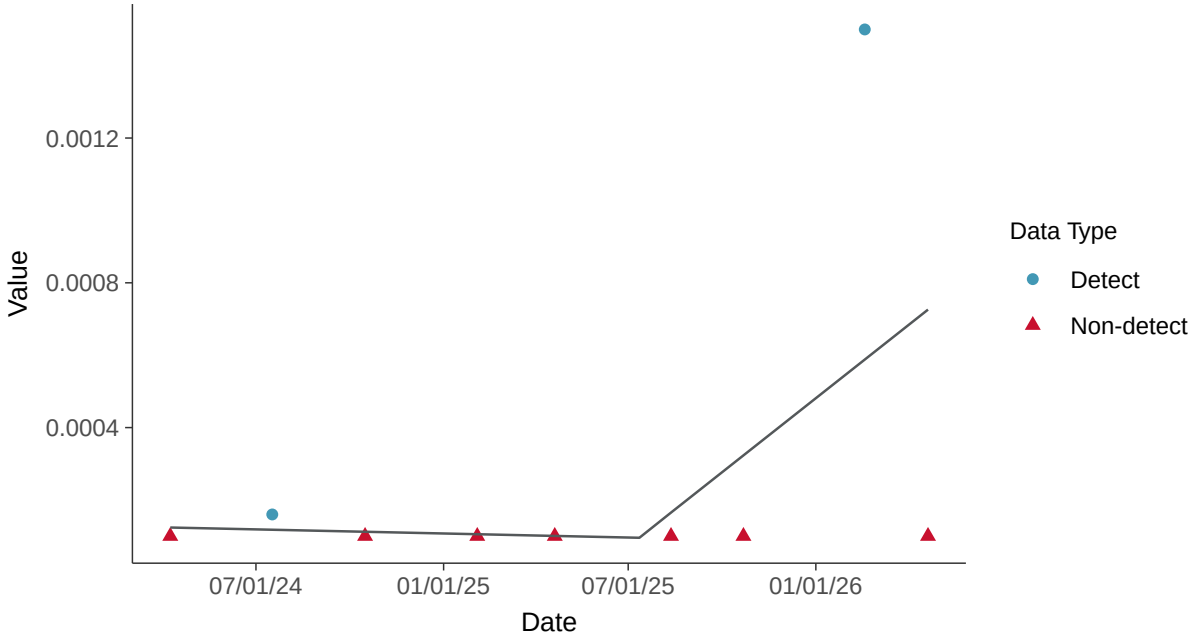
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-17 (mg/L)

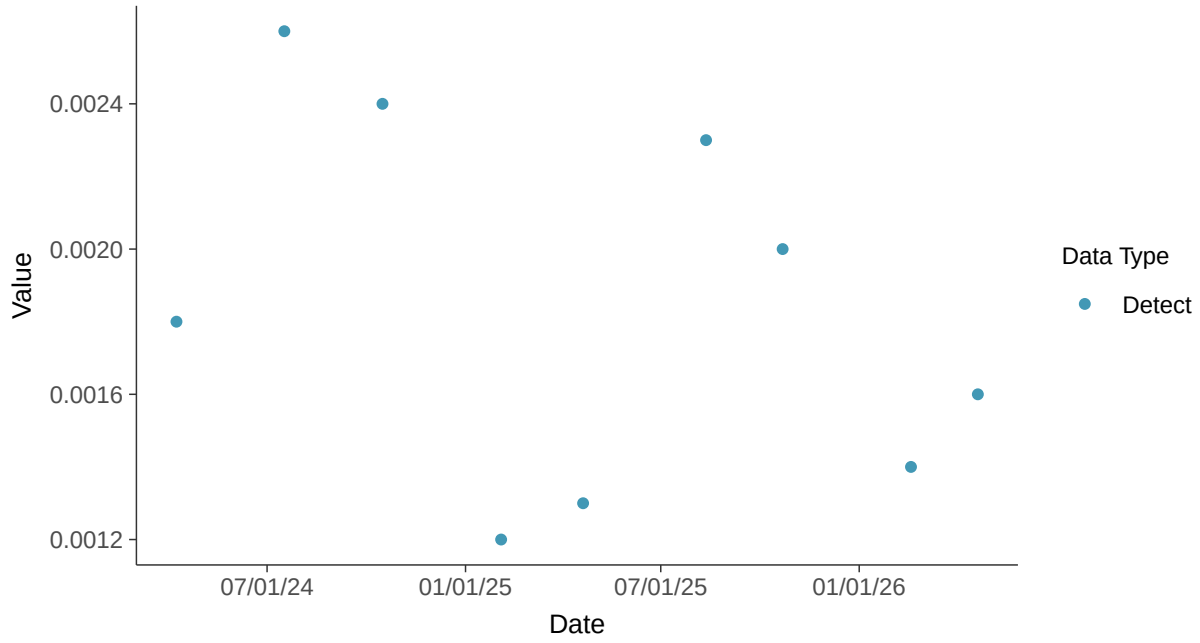


Appendix IV: Arsenic, MW-17

ID: 27_1_4_102

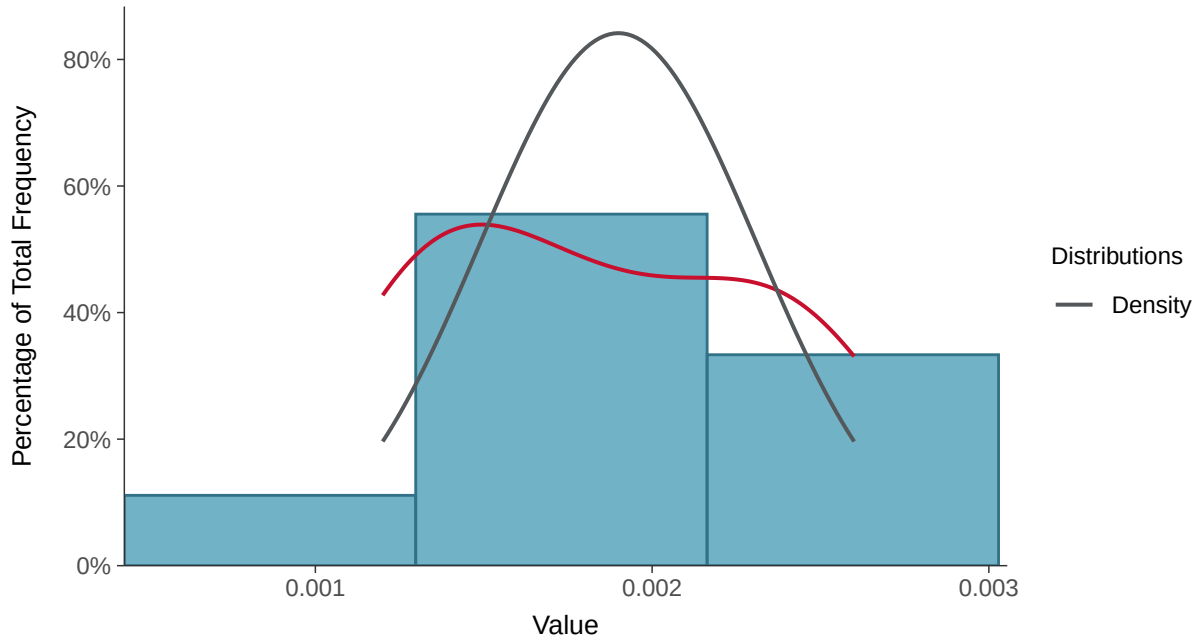
Scatter Plot

Arsenic, MW-17 (mg/L)



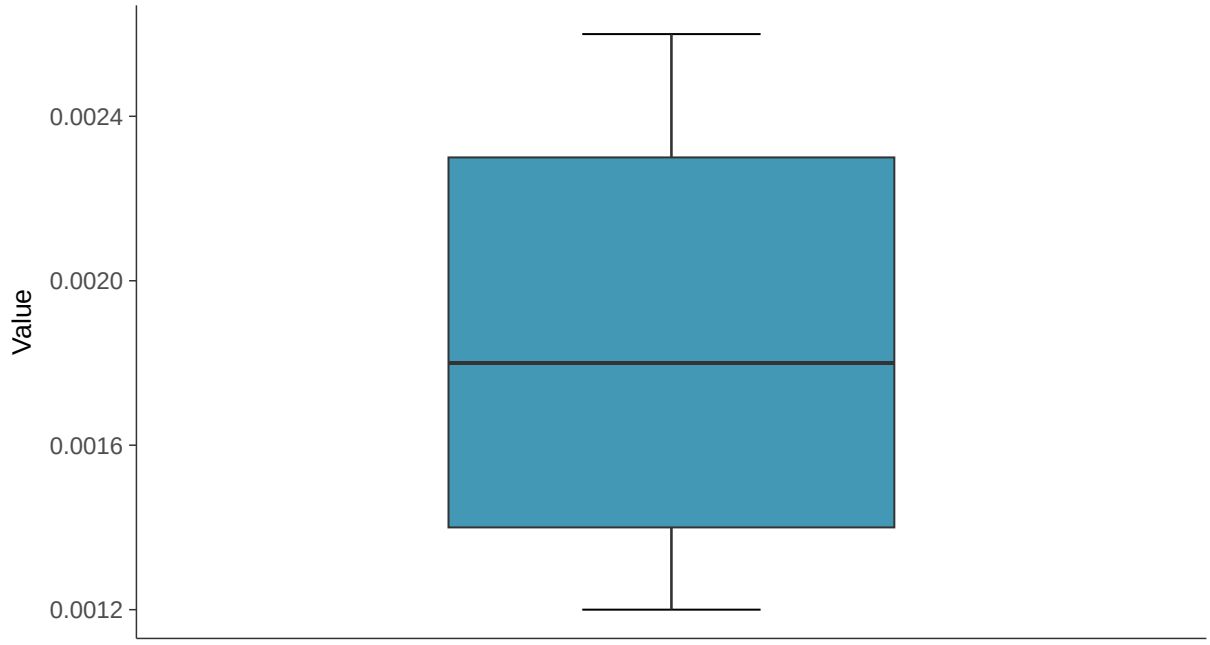
Histogram

Arsenic, MW-17 (mg/L)



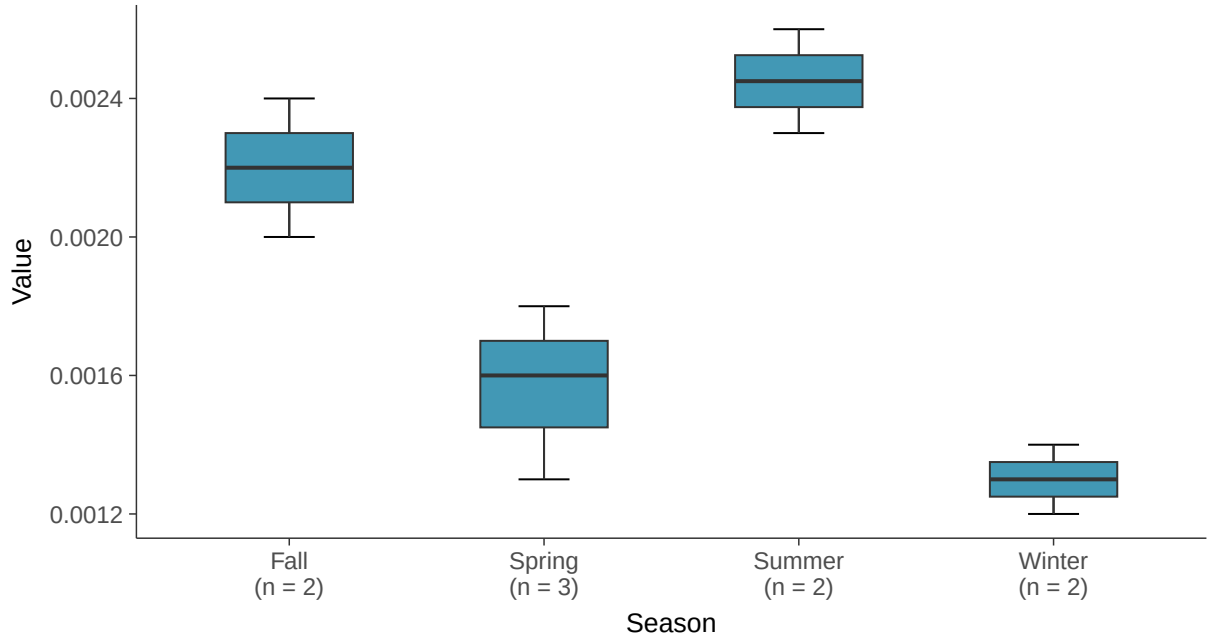
Boxplot

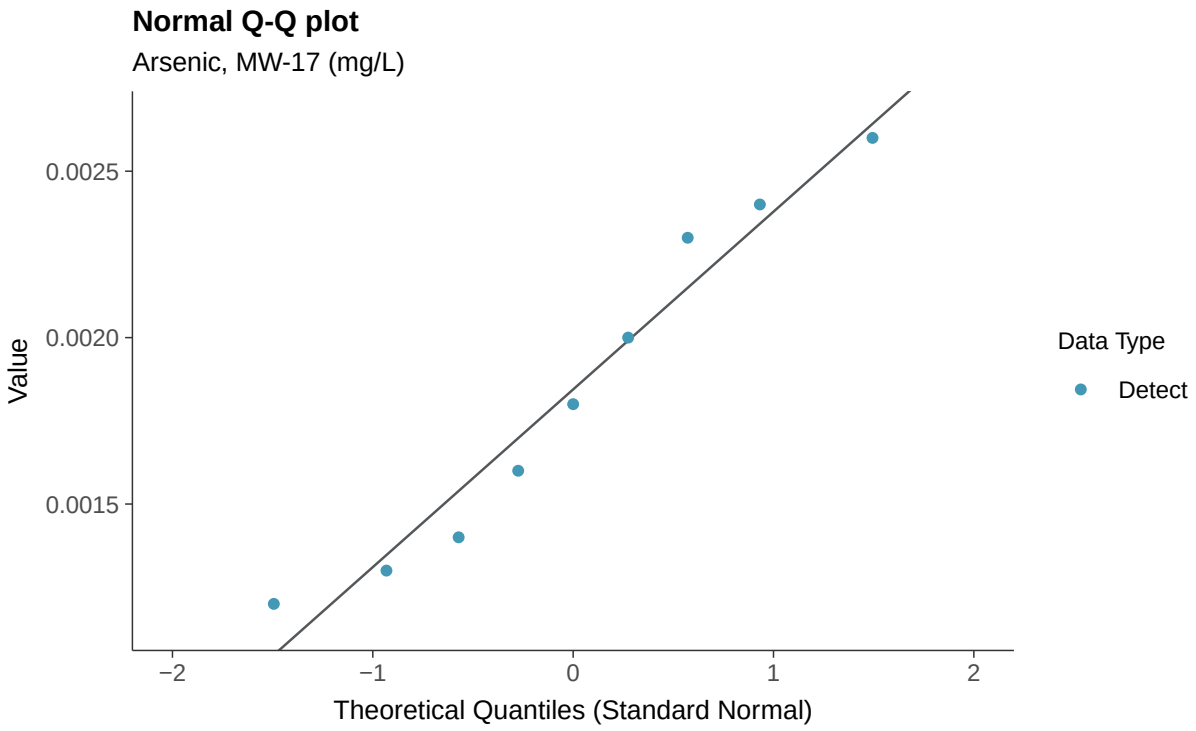
Arsenic, MW-17 (mg/L)

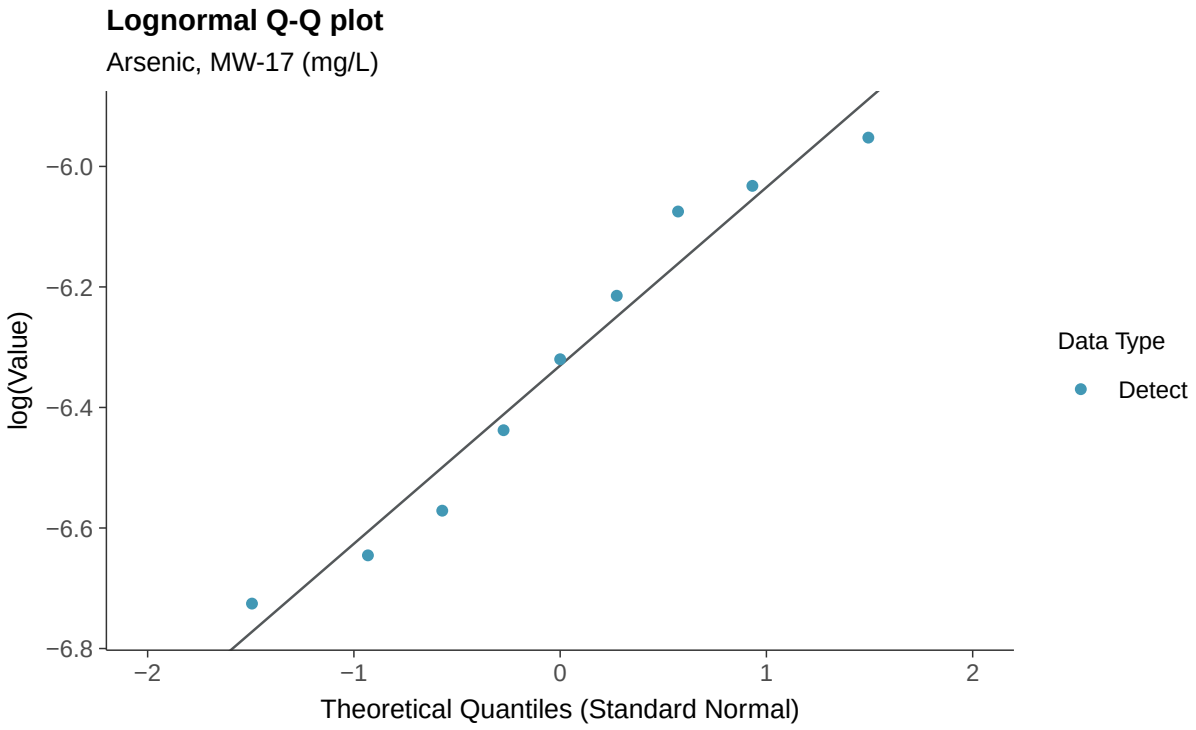


Boxplot by Season

Arsenic, MW-17 (mg/L)

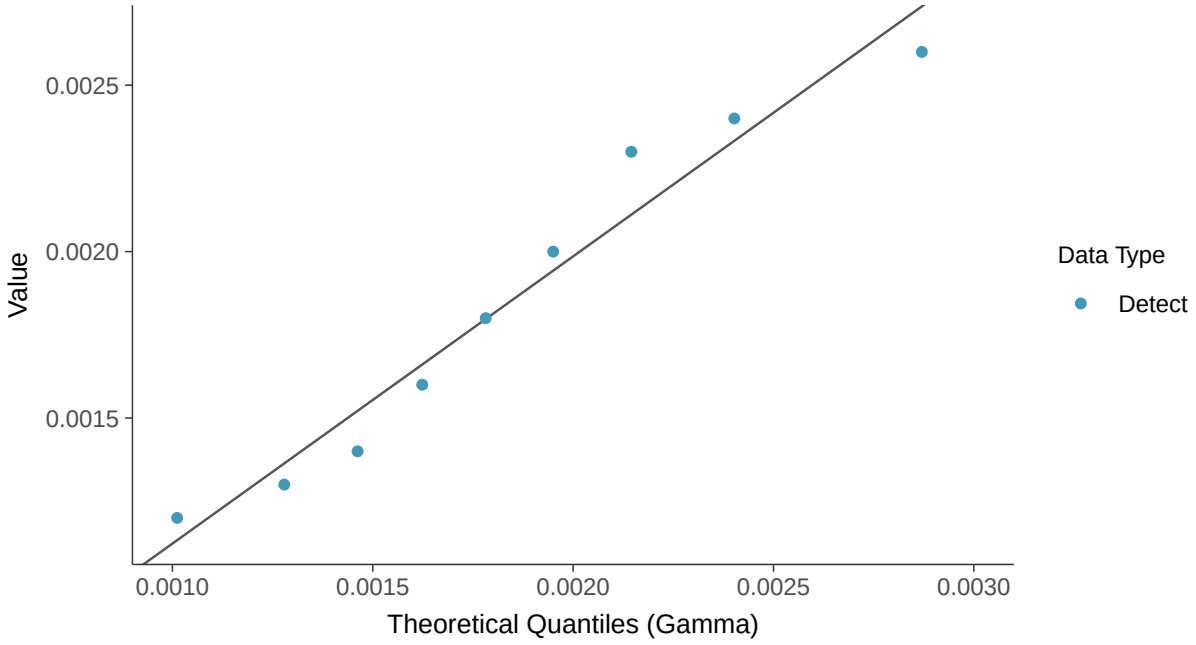



Normal Q-Q plot
Arsenic, MW-17 (mg/L)
Value
0.0025
0.0020
0.0015
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Arsenic, MW-17 (mg/L)
log(Value)
−6.0
−6.2
−6.4
−6.6
−6.8
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

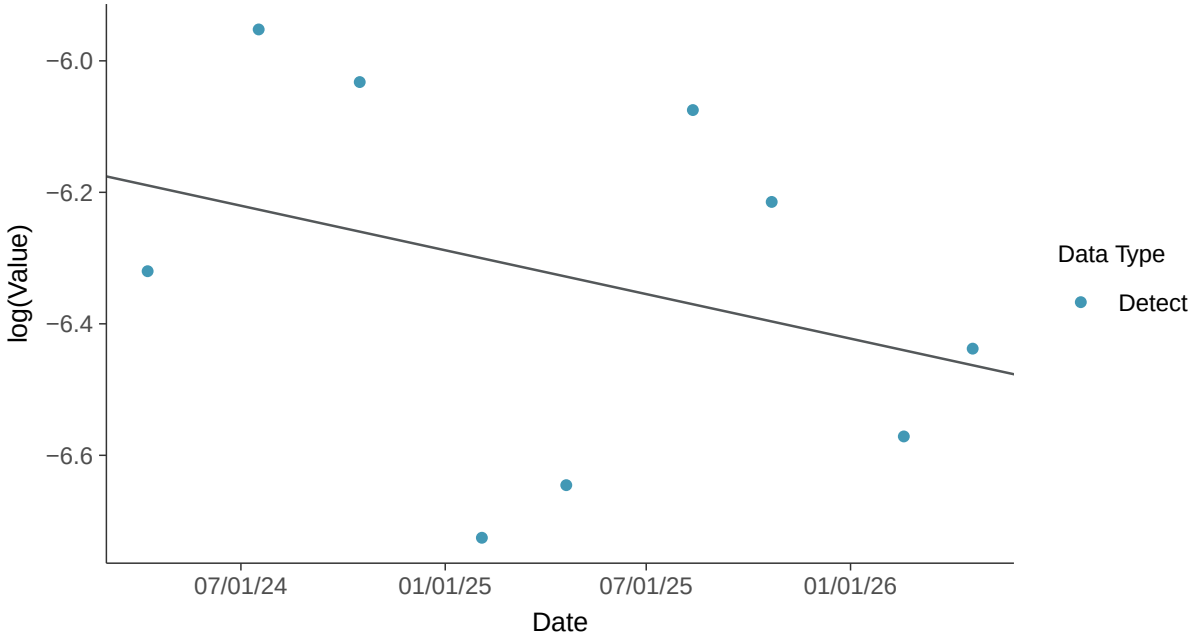
Gamma Q-Q plot

Arsenic, MW-17 (mg/L)



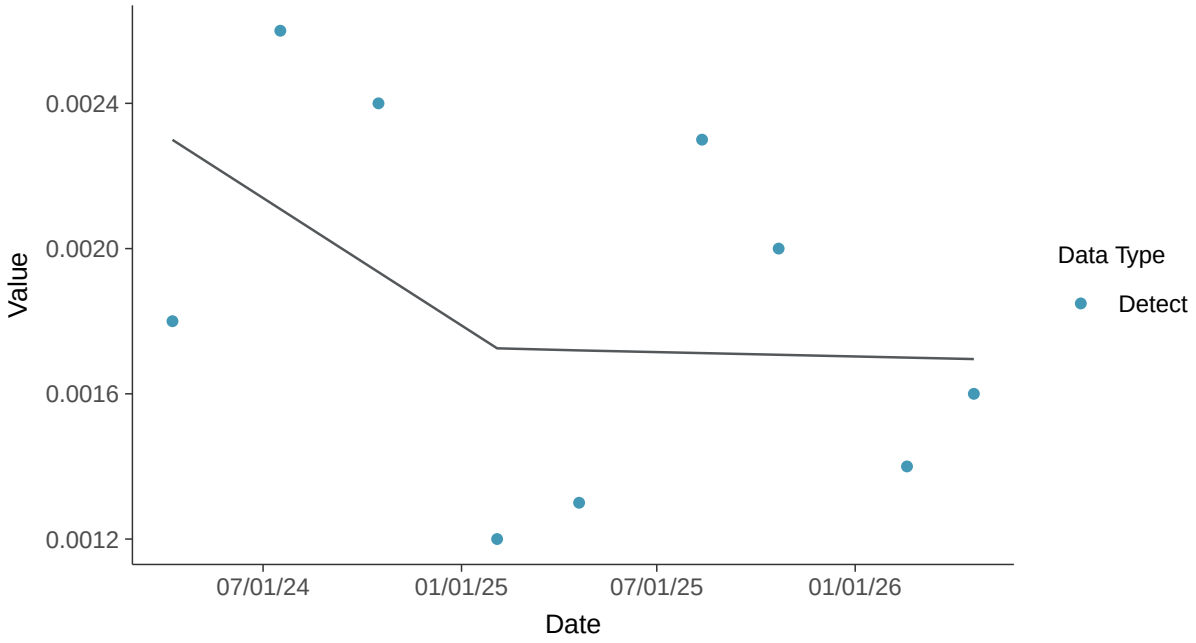
Trend Regression: Lognormal MLE

Arsenic, MW-17 (mg/L)



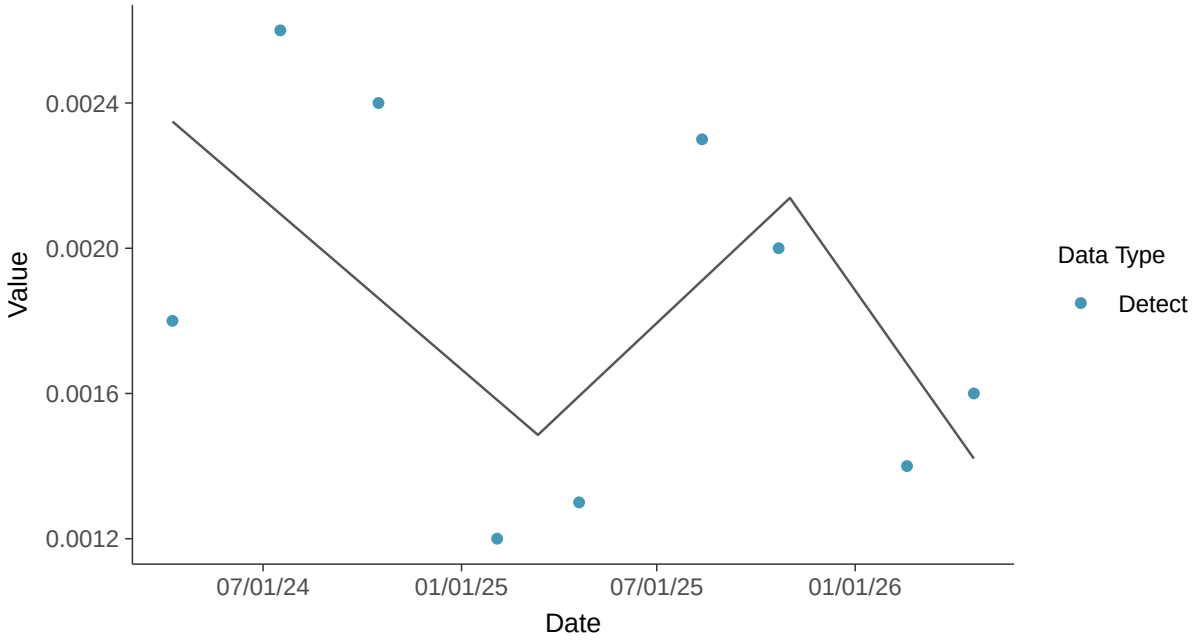
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-17 (mg/L)

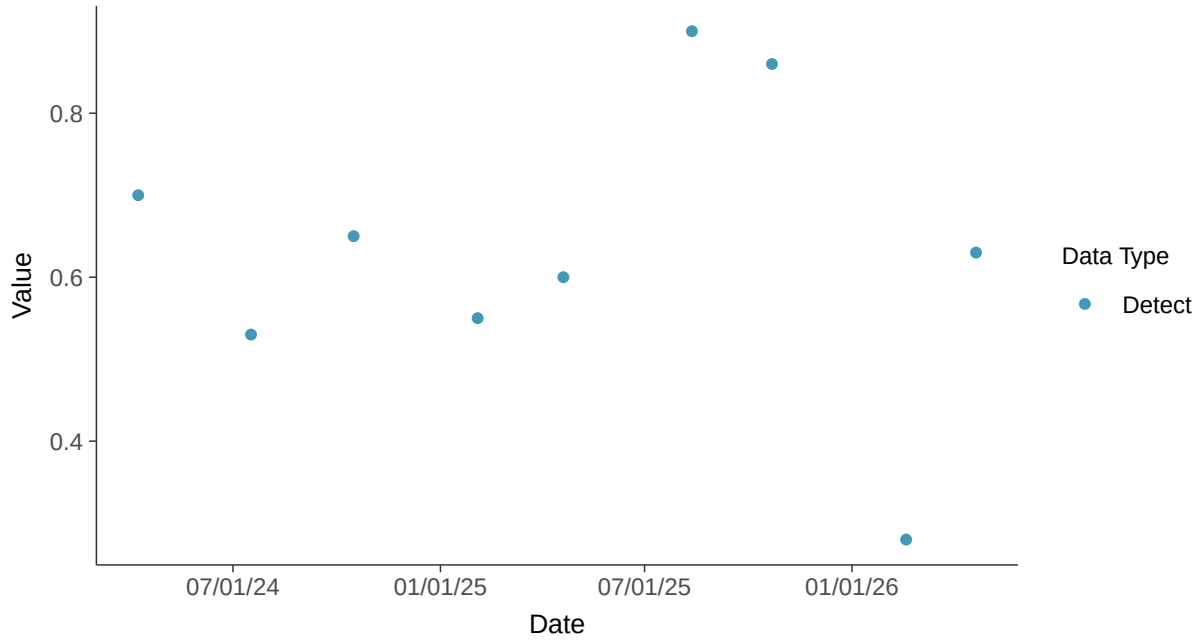


Appendix IV: Barium, MW-17

ID: 27_1_4_103

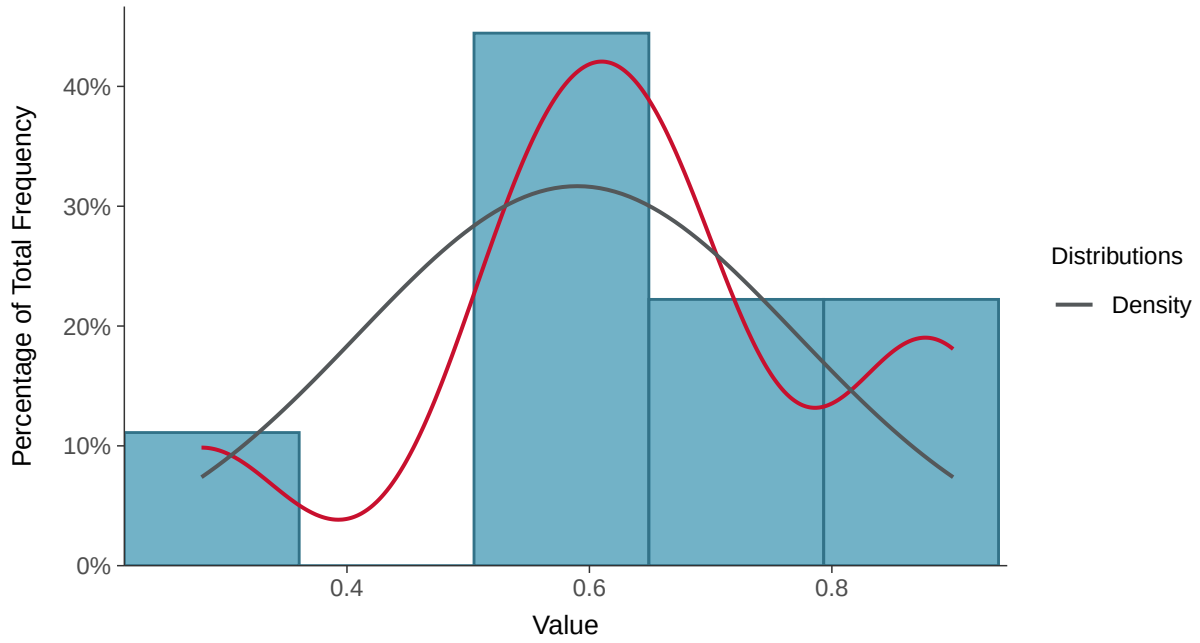
Scatter Plot

Barium, MW-17 (mg/L)



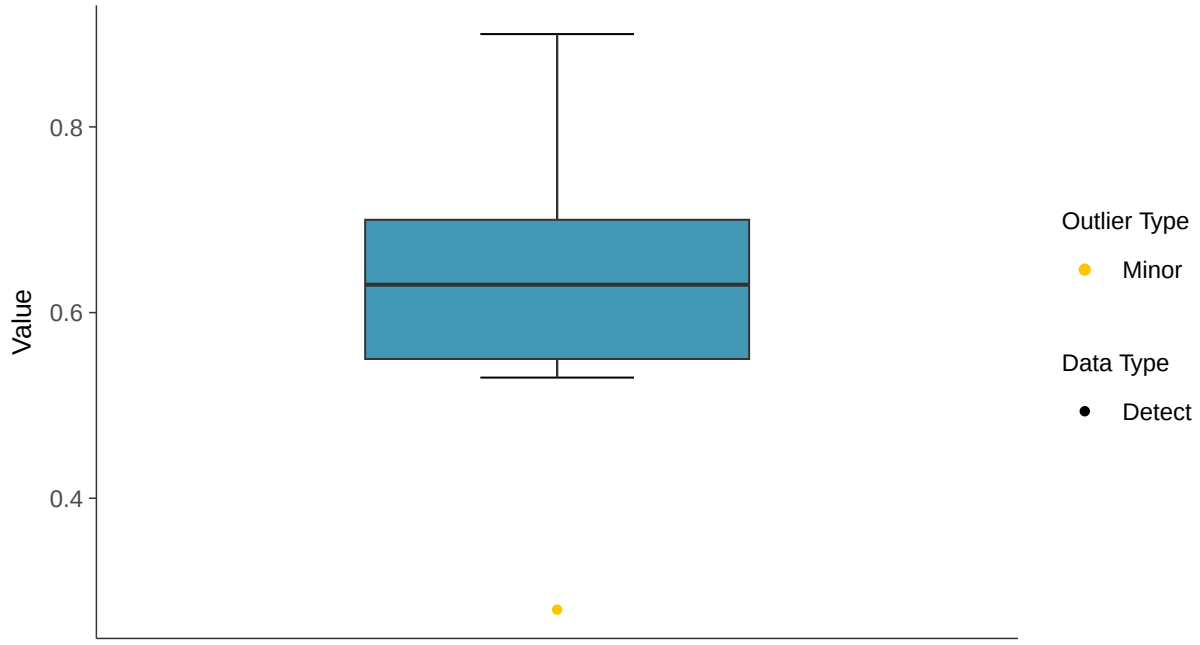
Histogram

Barium, MW-17 (mg/L)



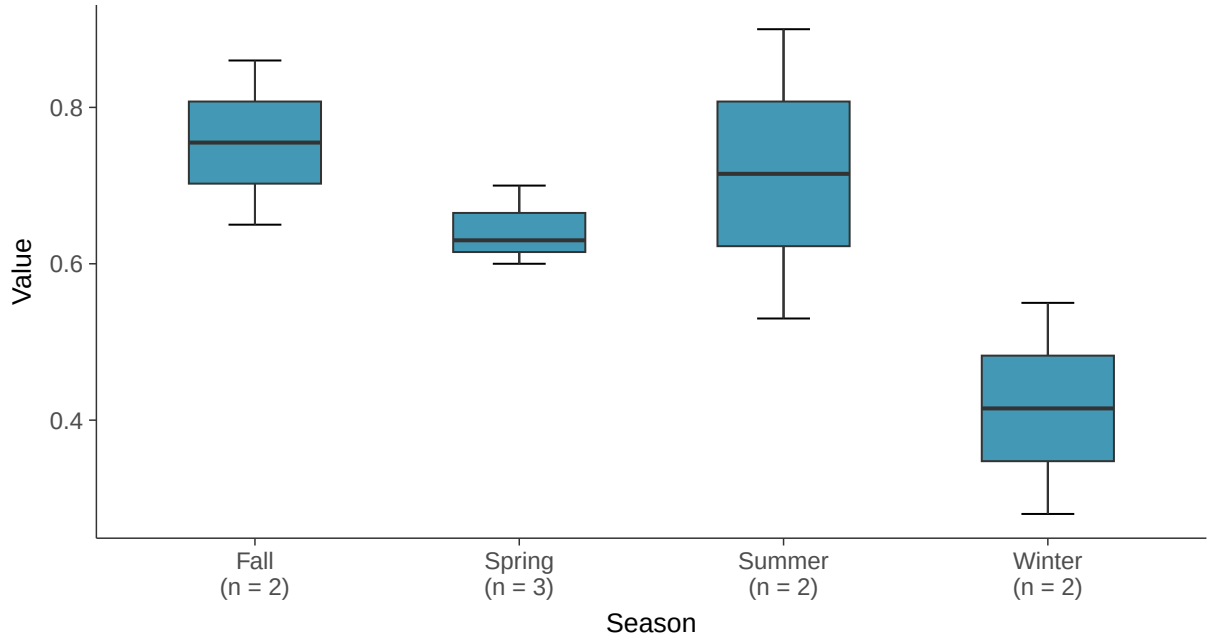
Boxplot

Barium, MW-17 (mg/L)



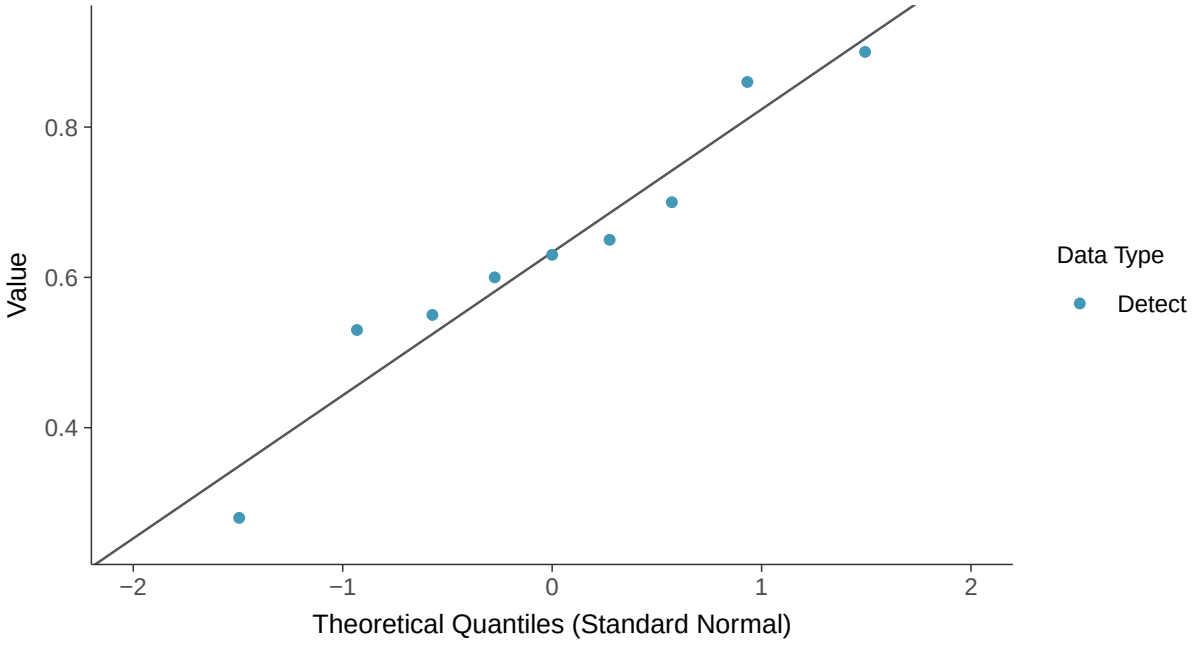
Boxplot by Season

Barium, MW-17 (mg/L)



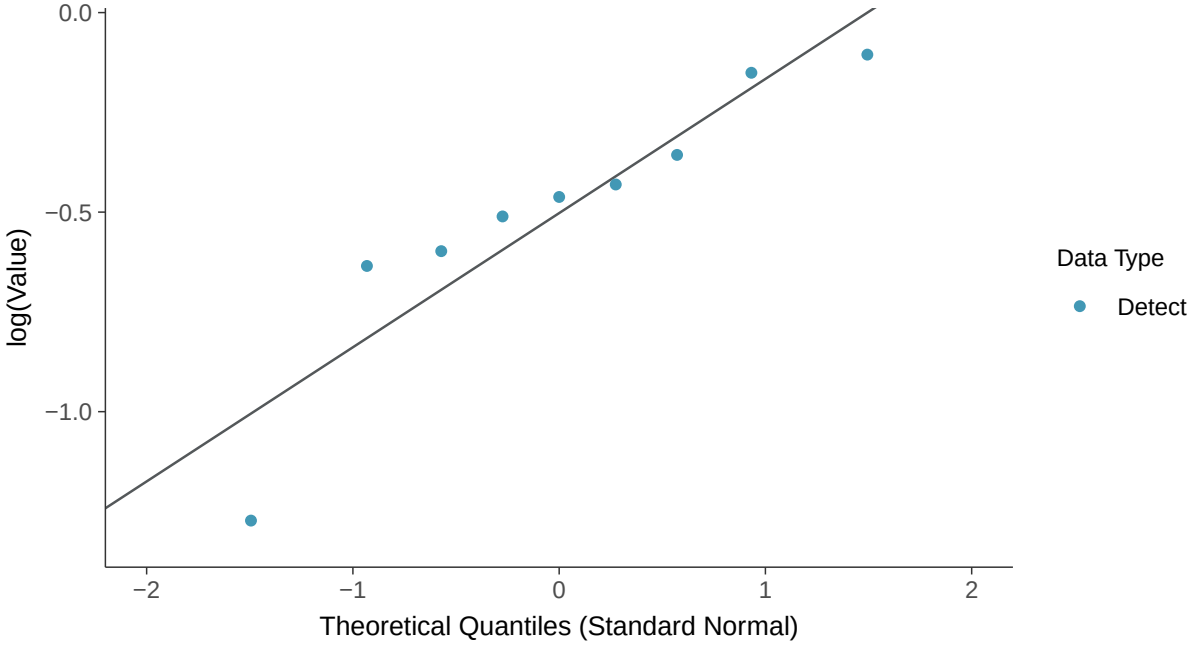
Normal Q-Q plot

Barium, MW-17 (mg/L)



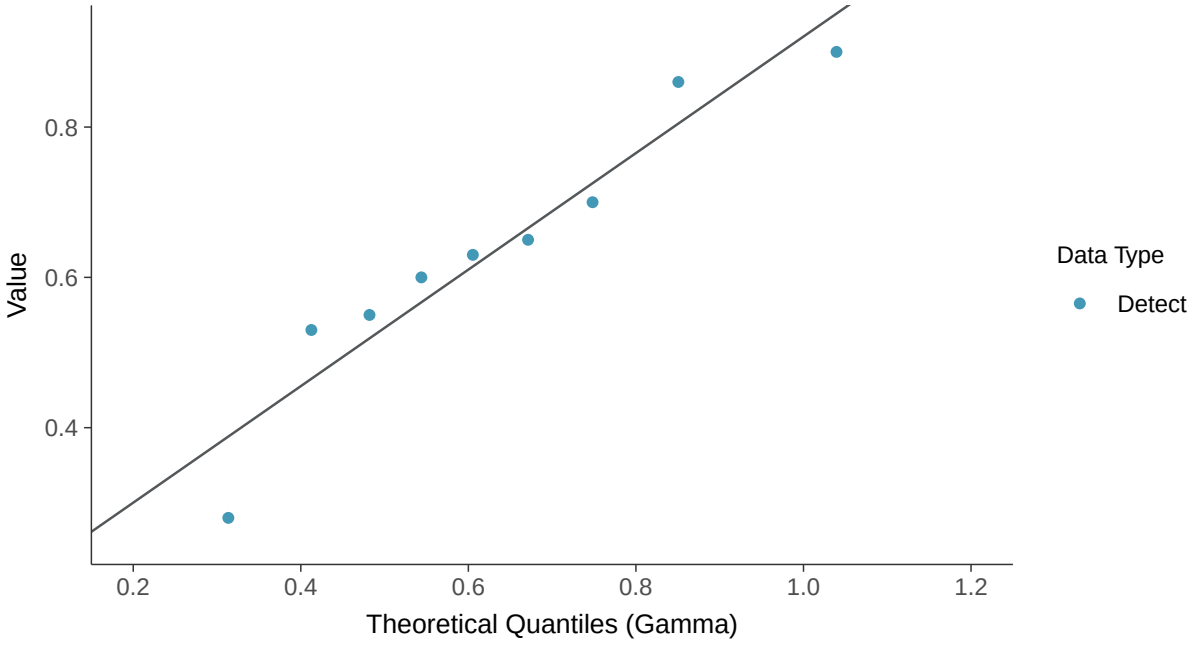
Lognormal Q-Q plot

Barium, MW-17 (mg/L)



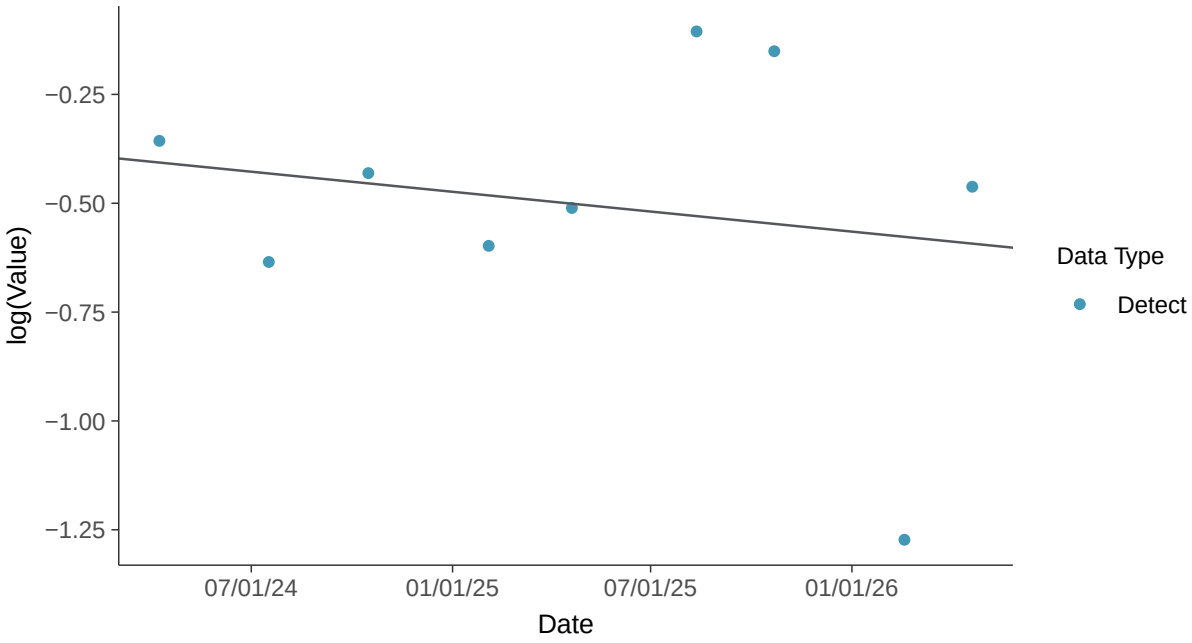
Gamma Q-Q plot

Barium, MW-17 (mg/L)



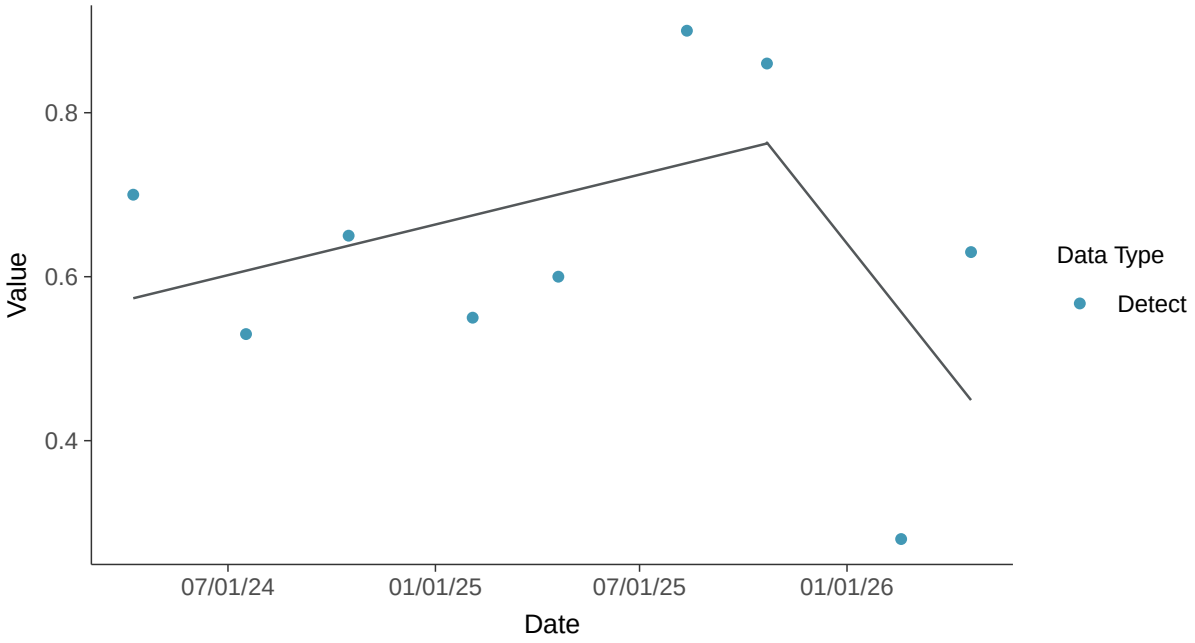
Trend Regression: Lognormal MLE

Barium, MW-17 (mg/L)



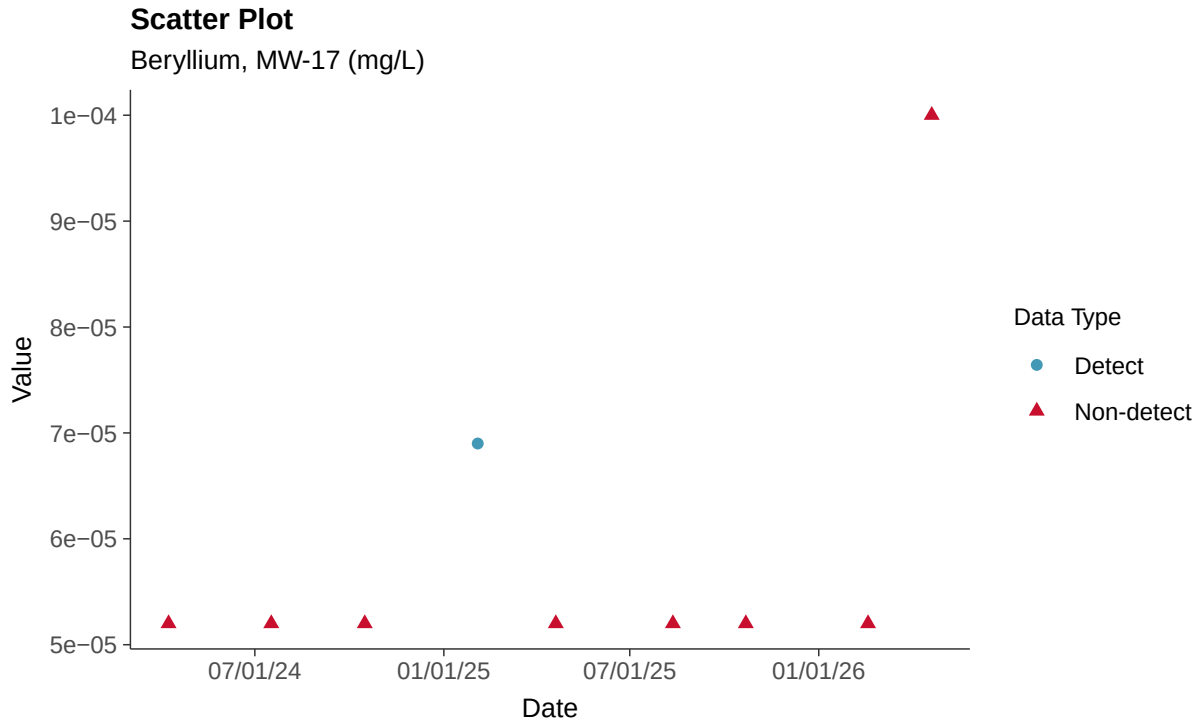
Trend Regression: Piecewise Linear-Linear

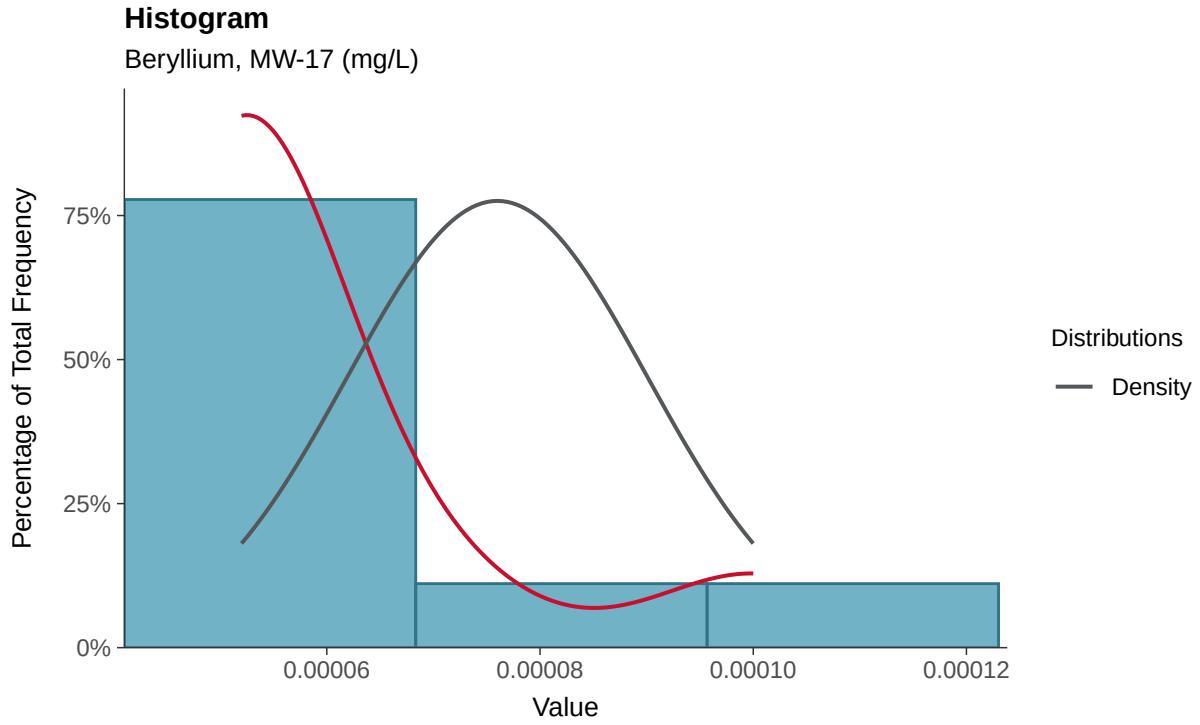
Barium, MW-17 (mg/L)



Appendix IV: Beryllium, MW-17

ID: 27_1_4_104



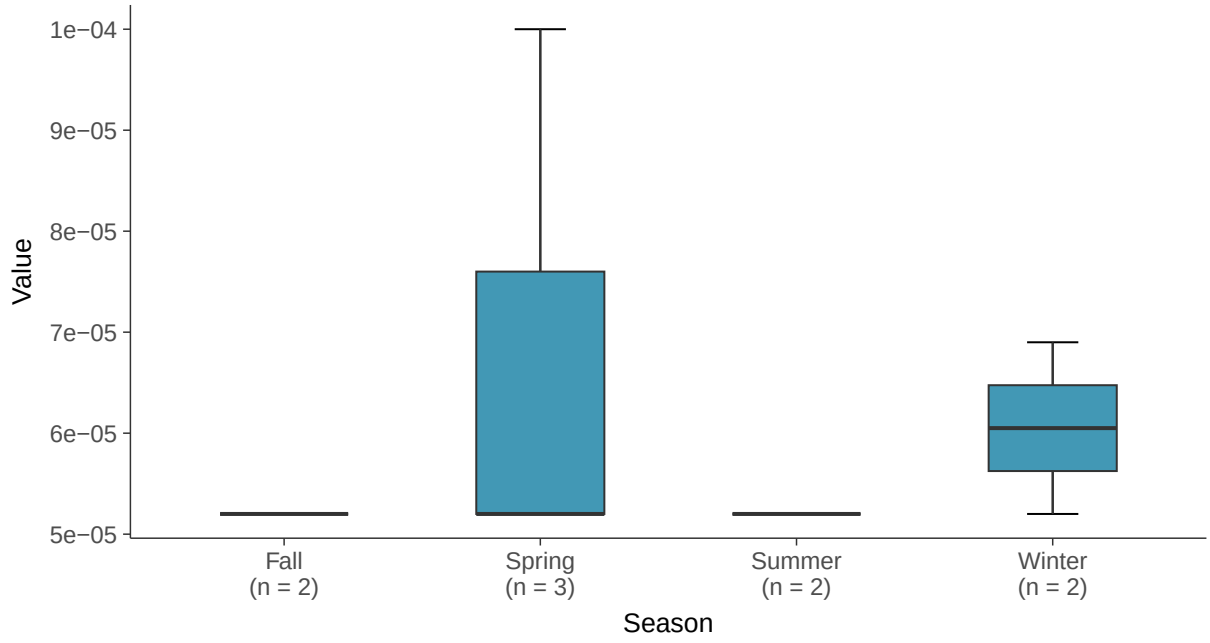


Boxplot

Beryllium, MW-17 (mg/L)

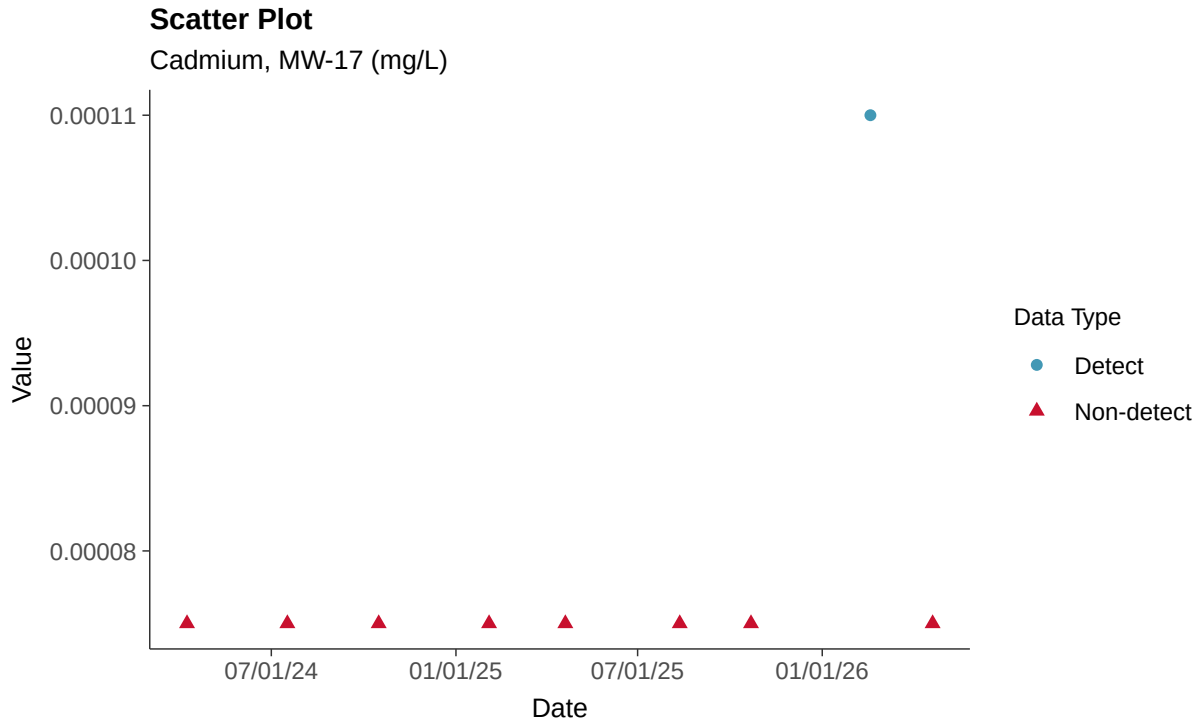
Boxplot by Season

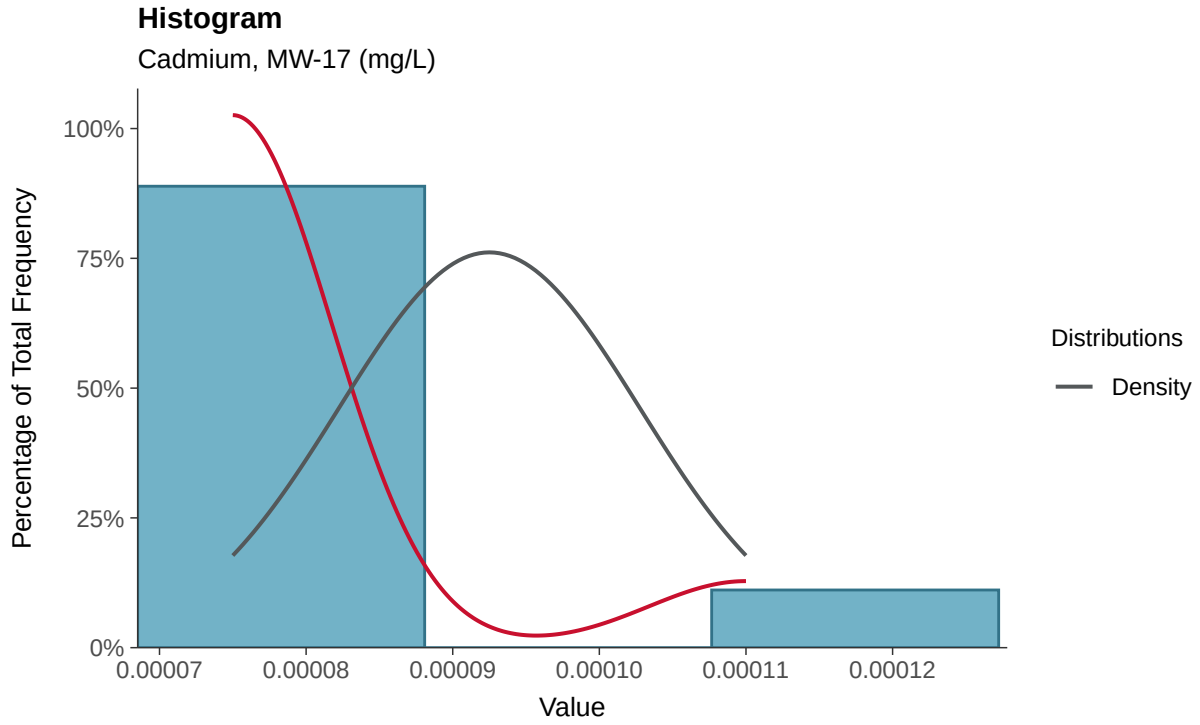
Beryllium, MW-17 (mg/L)



Appendix IV: Cadmium, MW-17

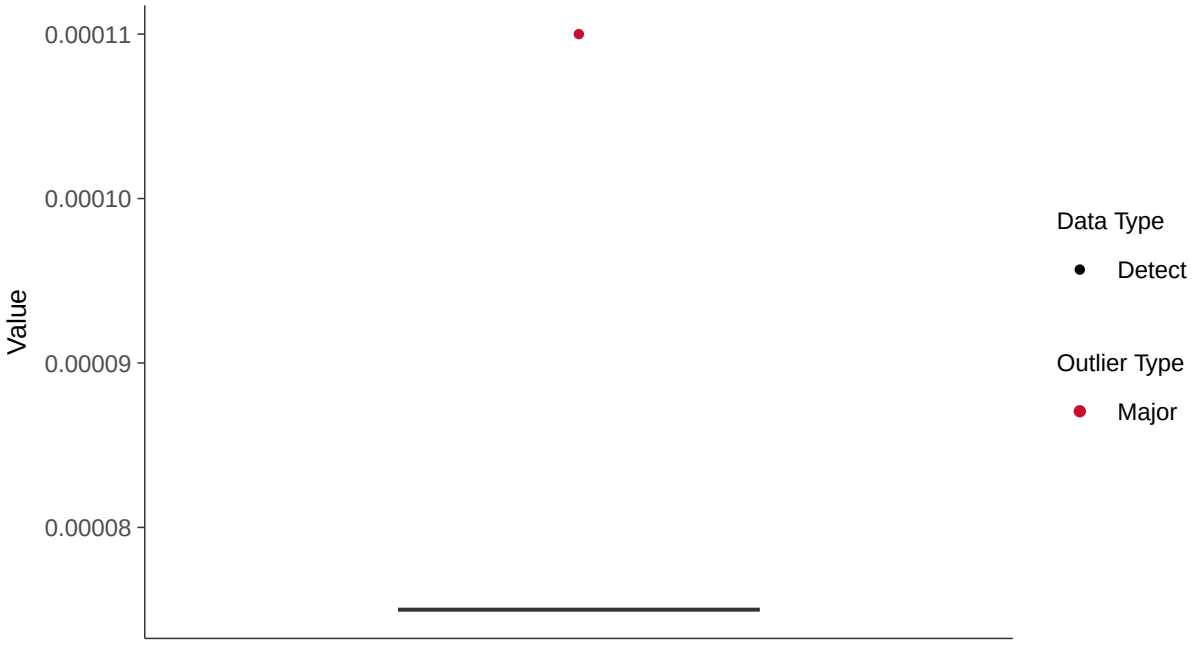
ID: 27_1_4_106





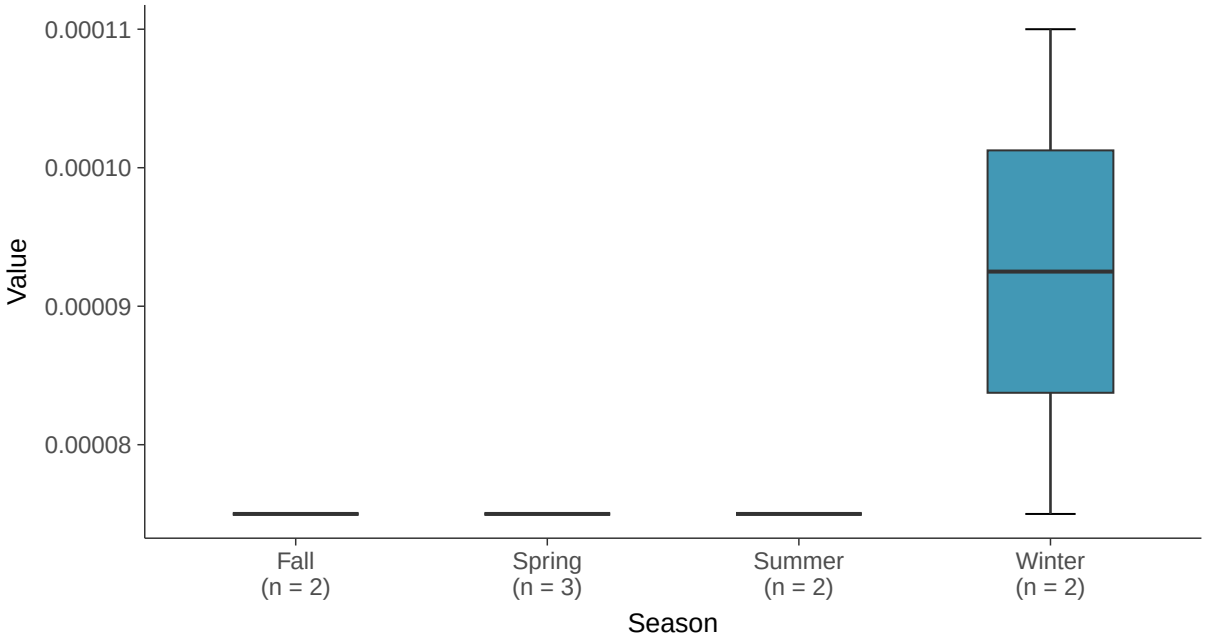
Boxplot

Cadmium, MW-17 (mg/L)



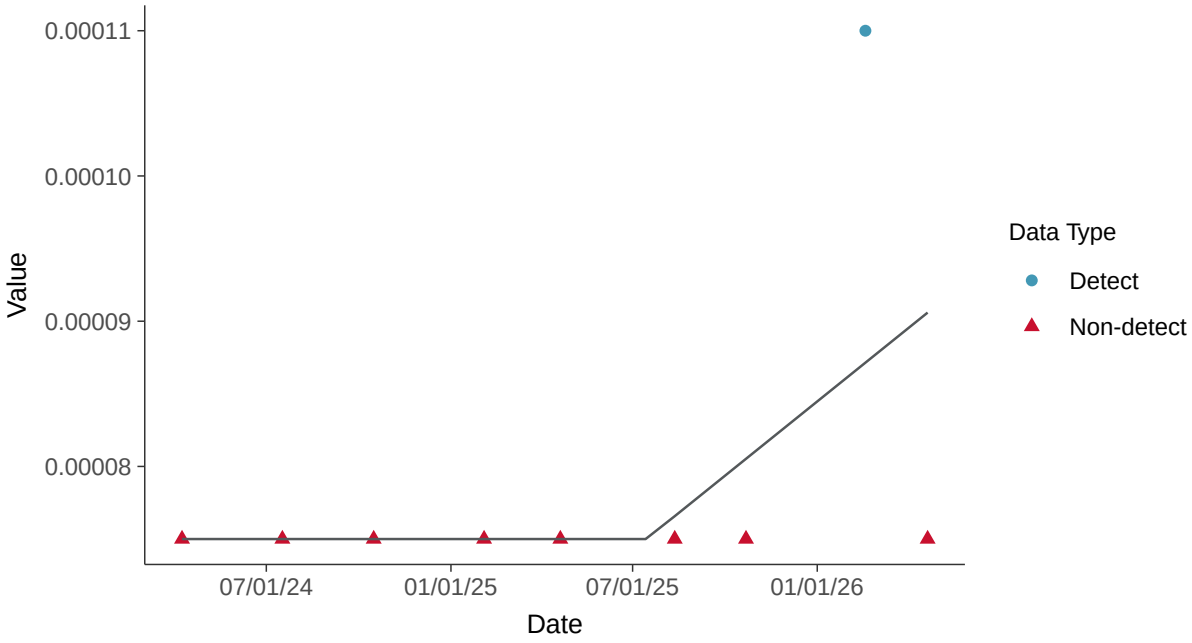
Boxplot by Season

Cadmium, MW-17 (mg/L)



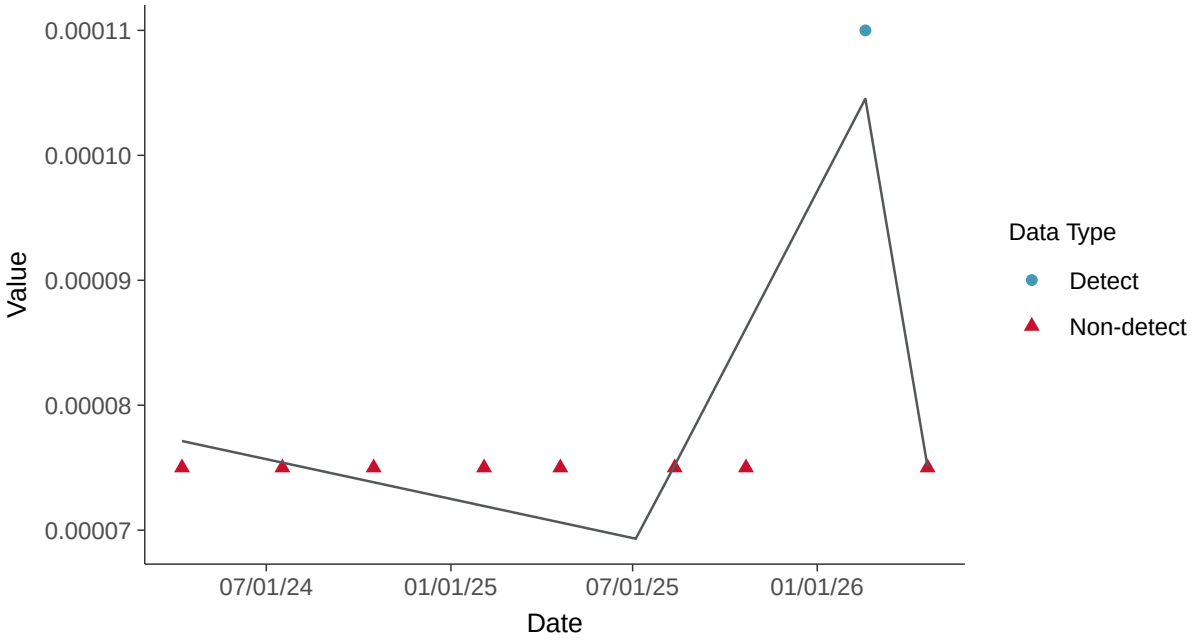
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-17 (mg/L)

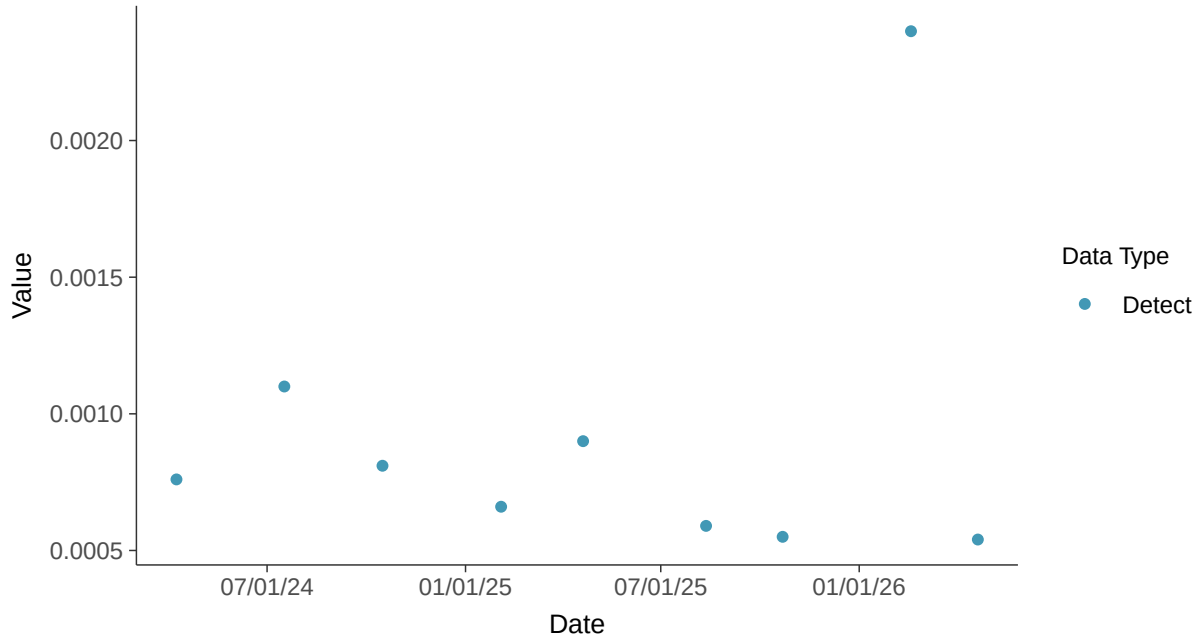


Appendix IV: Chromium, Total, MW-17

ID: 27_1_4_109

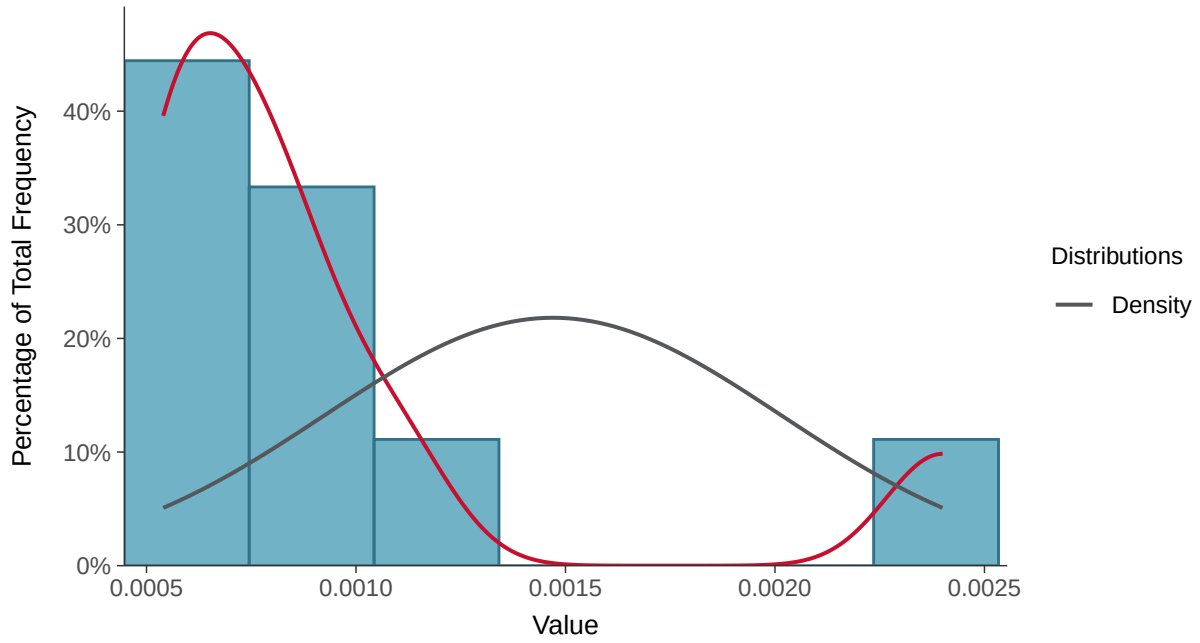
Scatter Plot

Chromium, Total, MW-17 (mg/L)



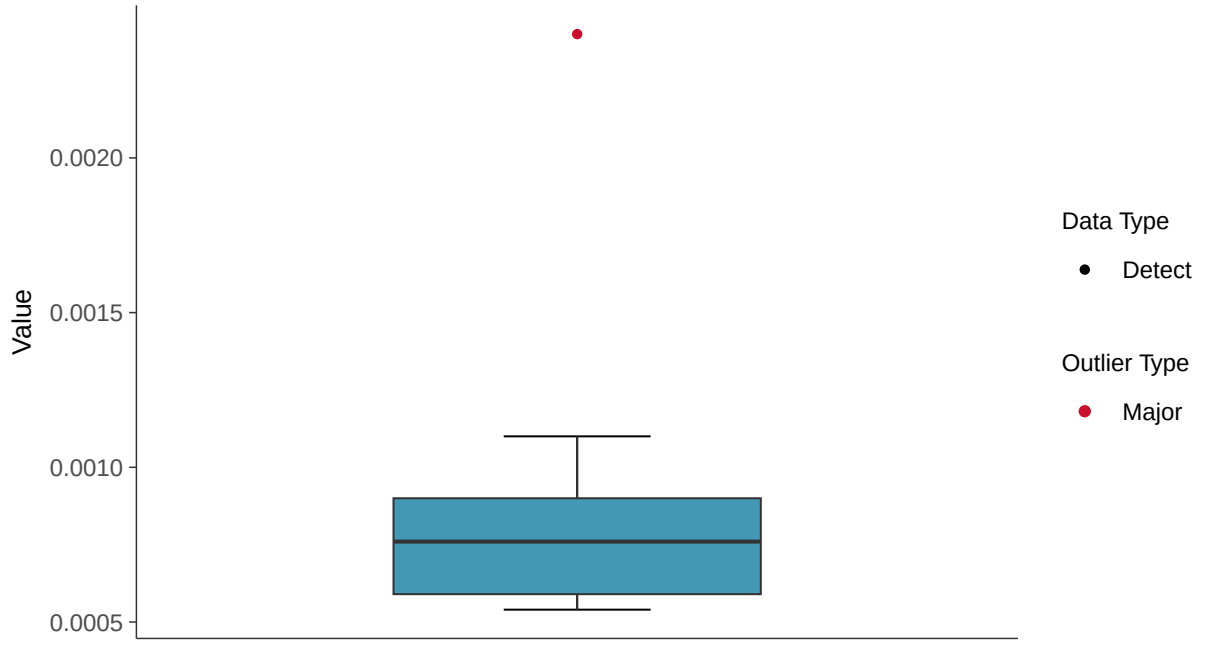
Histogram

Chromium, Total, MW-17 (mg/L)



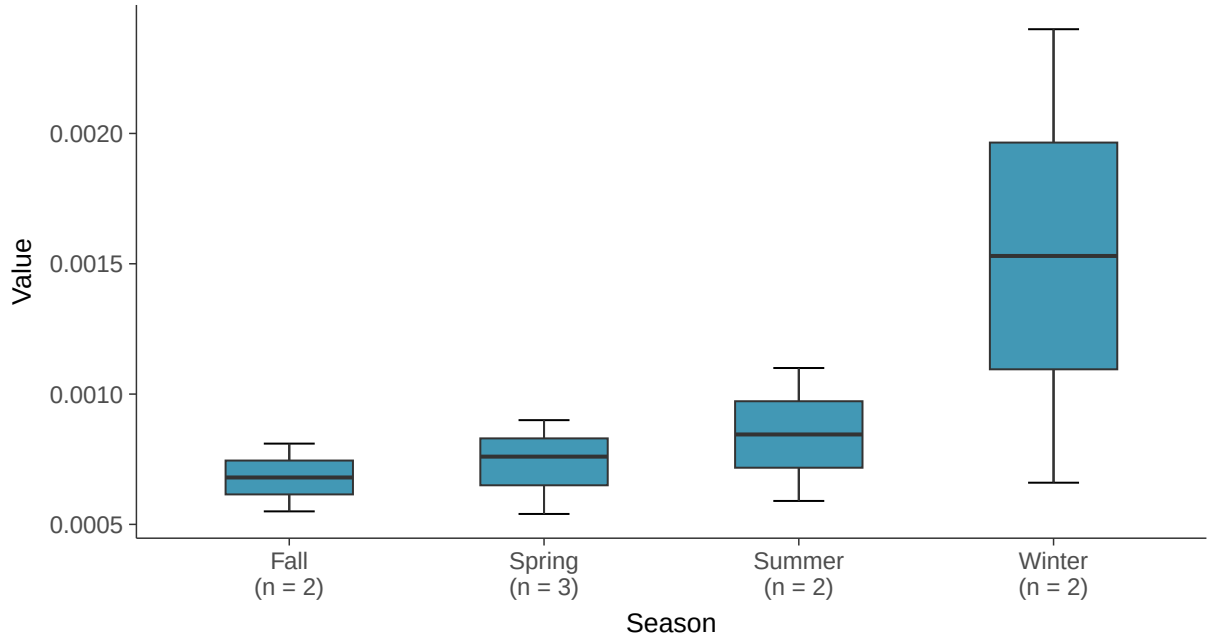
Boxplot

Chromium, Total, MW-17 (mg/L)



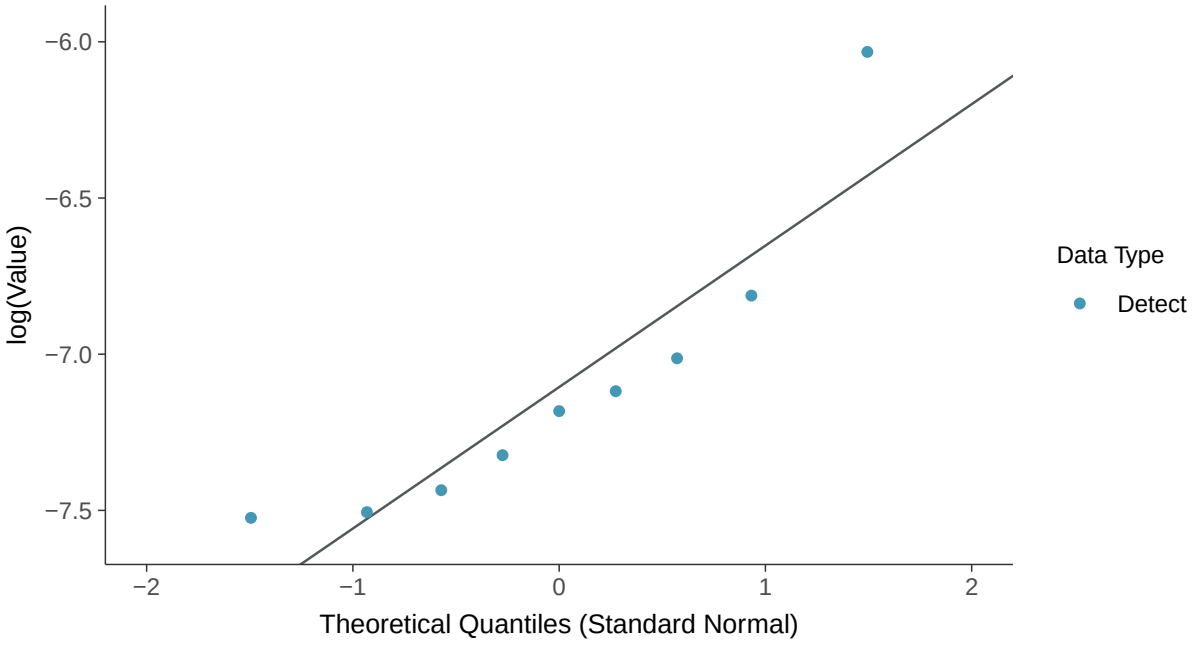
Boxplot by Season

Chromium, Total, MW-17 (mg/L)



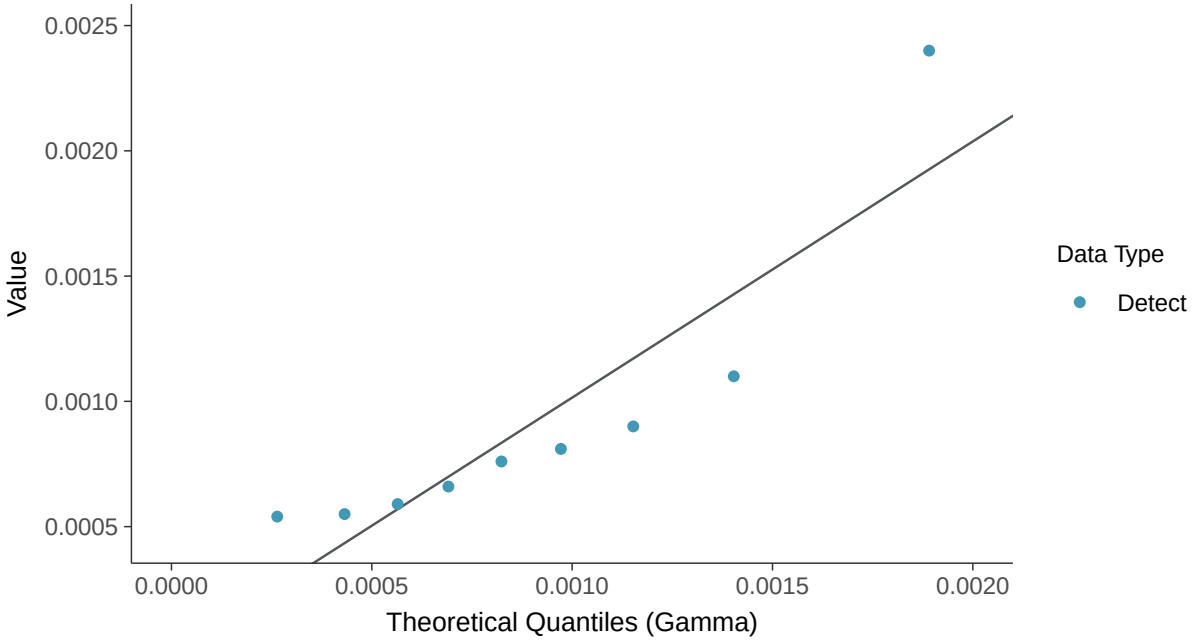
Lognormal Q-Q plot

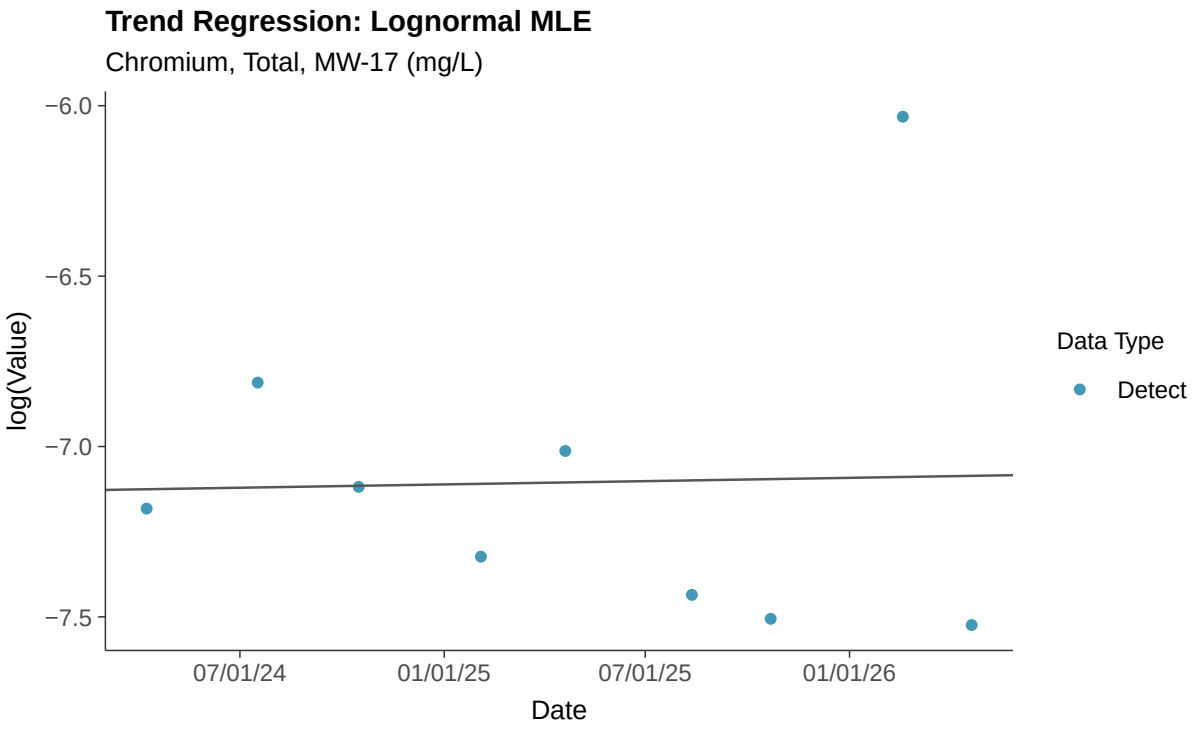
Chromium, Total, MW-17 (mg/L)



Gamma Q-Q plot

Chromium, Total, MW-17 (mg/L)



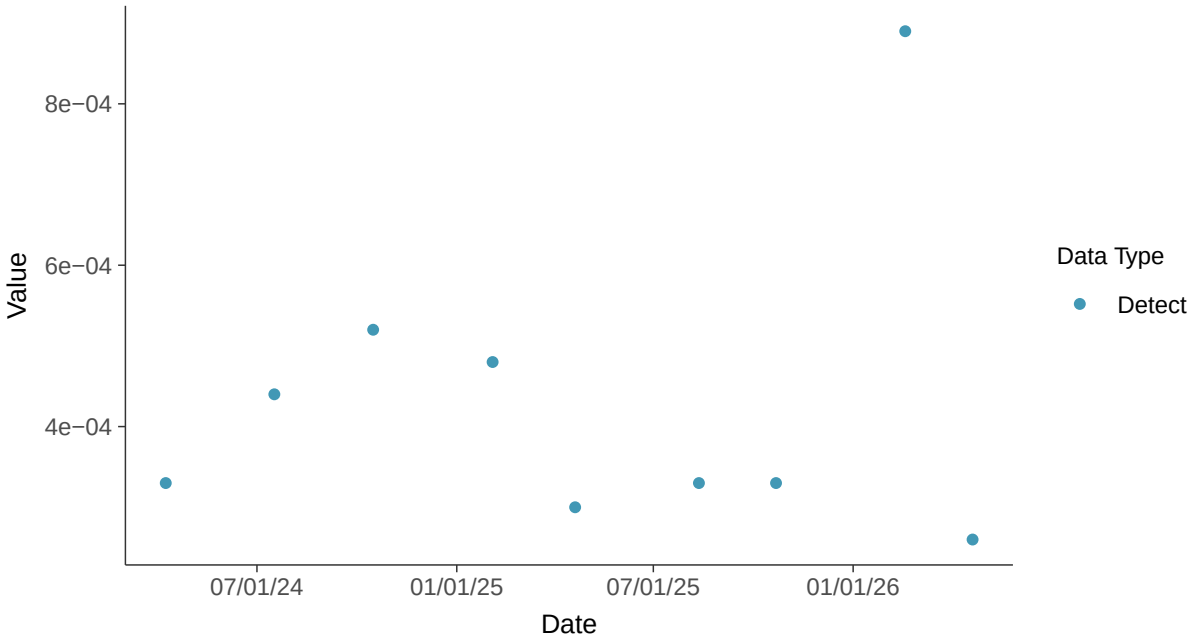

Trend Regression: Lognormal MLE
Chromium, Total, MW-17 (mg/L)
−6.0
−6.5
−7.0
−7.5
log(Value)
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Cobalt, MW-17

ID: 27_1_4_110

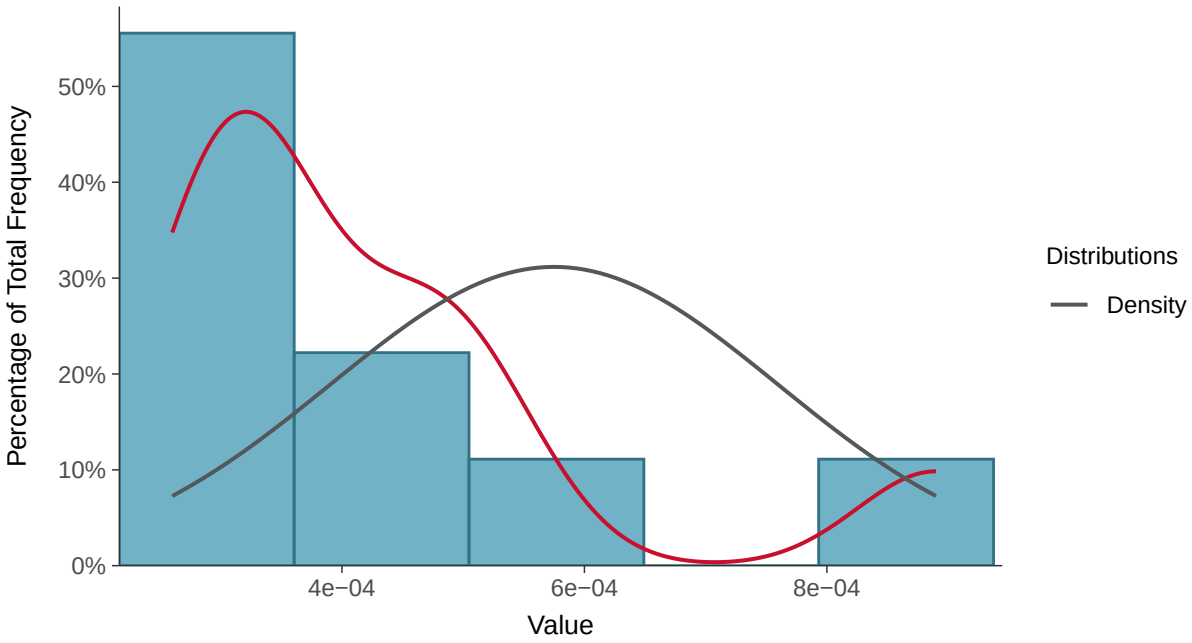
Scatter Plot

Cobalt, MW-17 (mg/L)



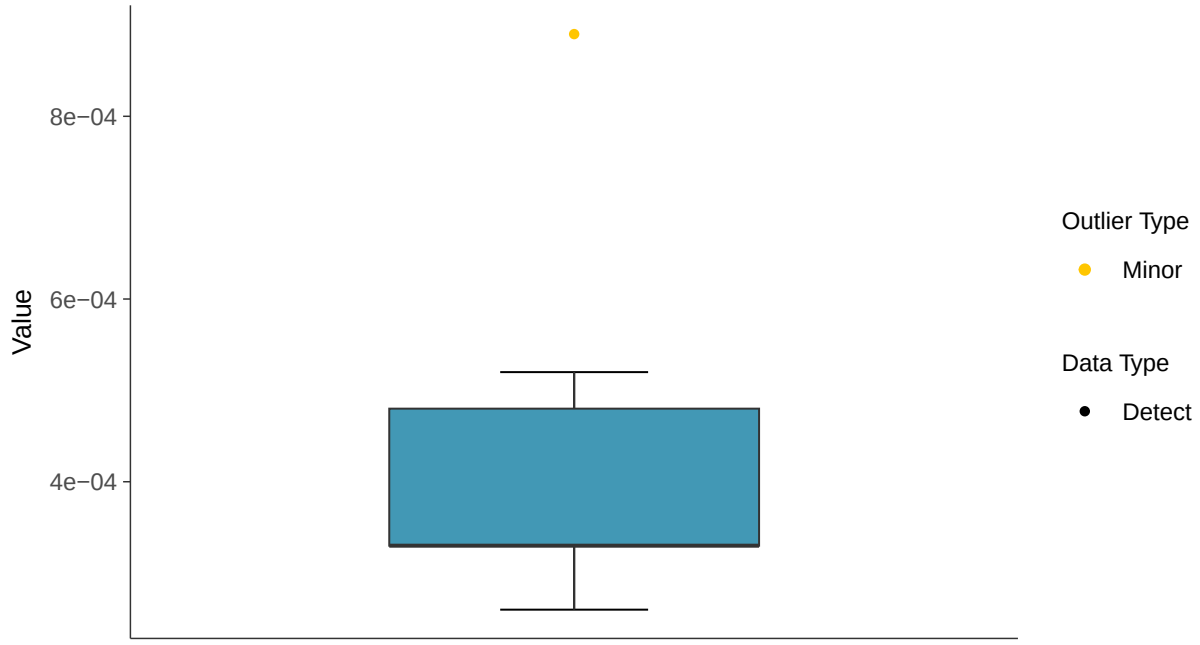
Histogram

Cobalt, MW-17 (mg/L)



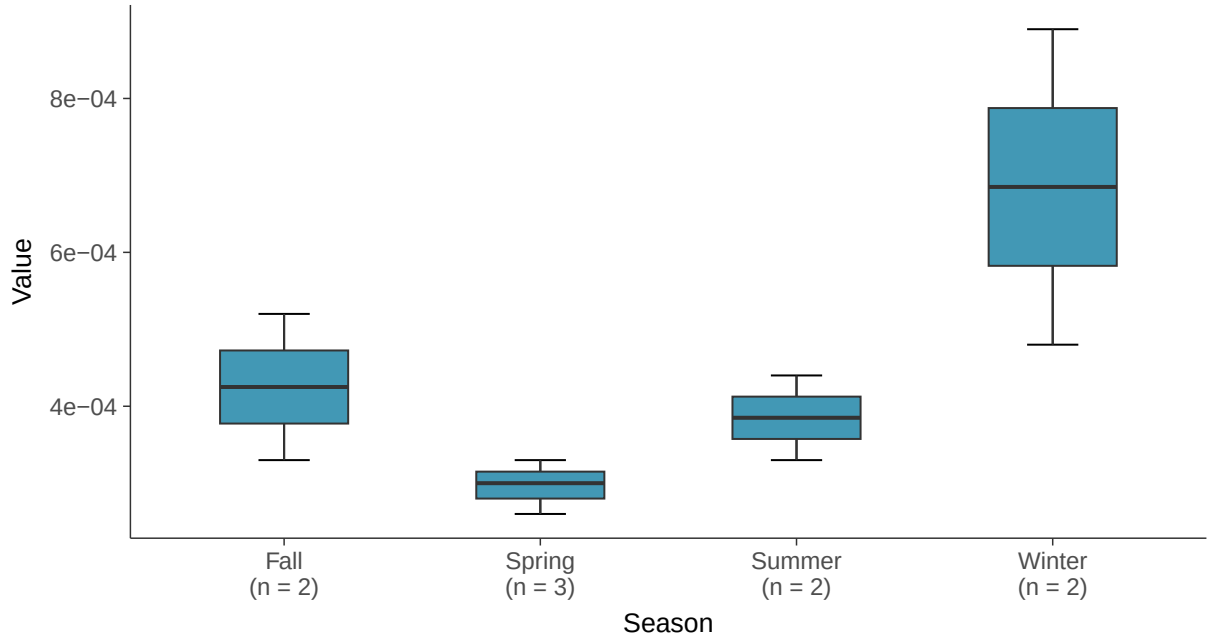
Boxplot

Cobalt, MW-17 (mg/L)



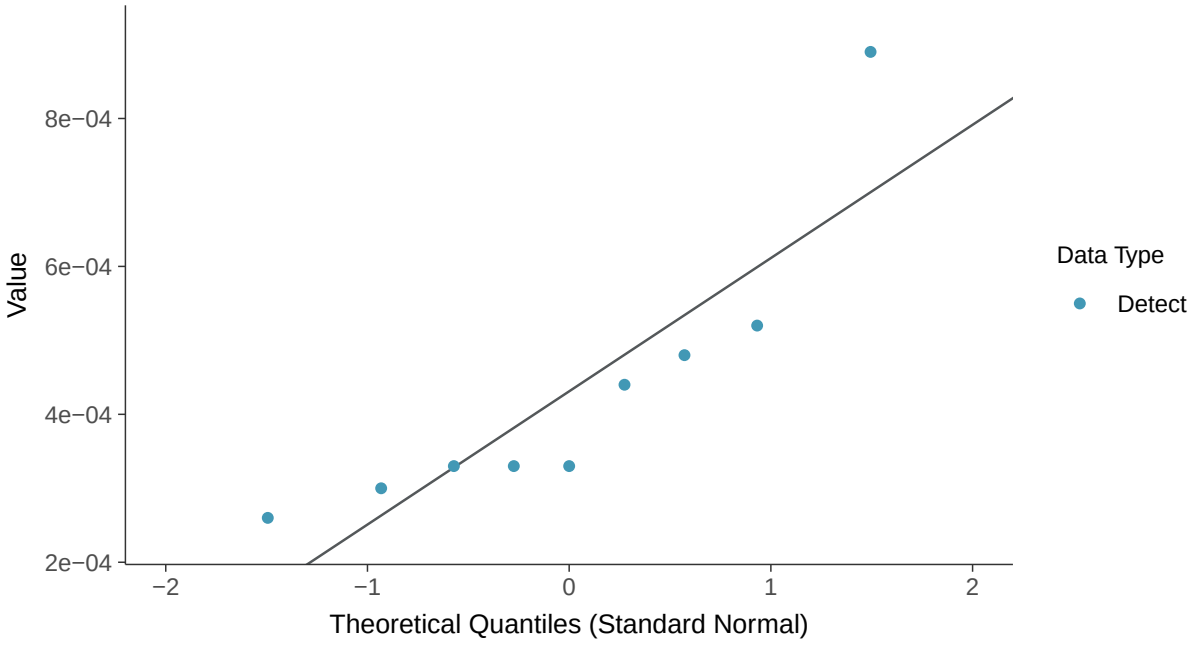
Boxplot by Season

Cobalt, MW-17 (mg/L)



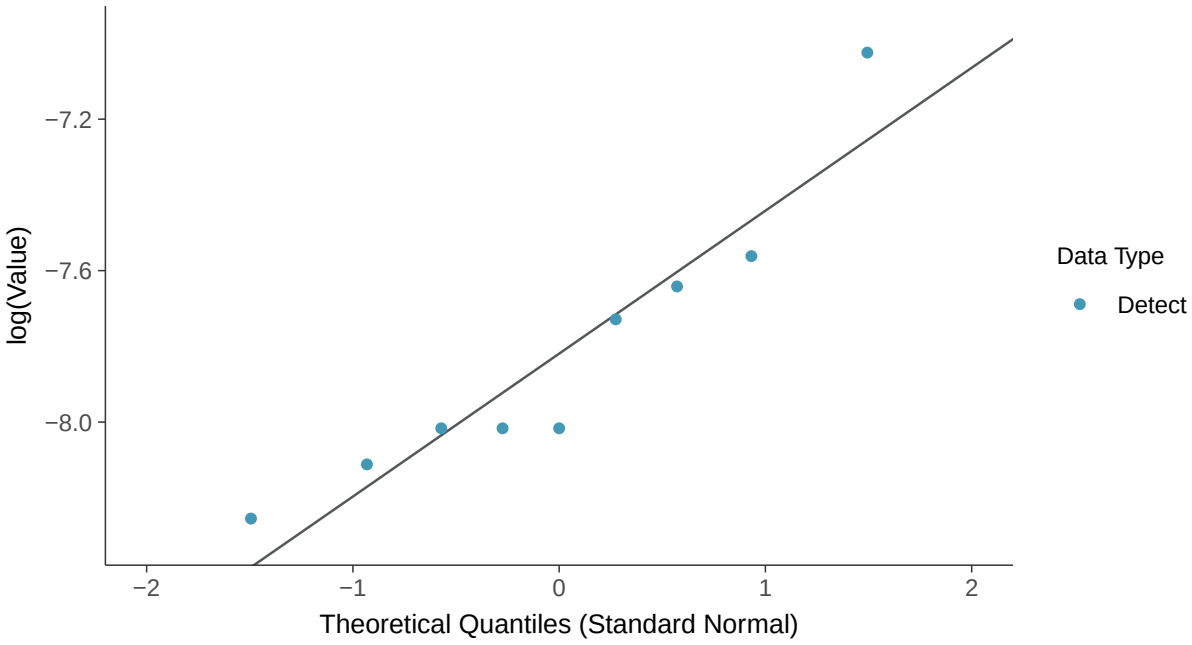
Normal Q-Q plot

Cobalt, MW-17 (mg/L)



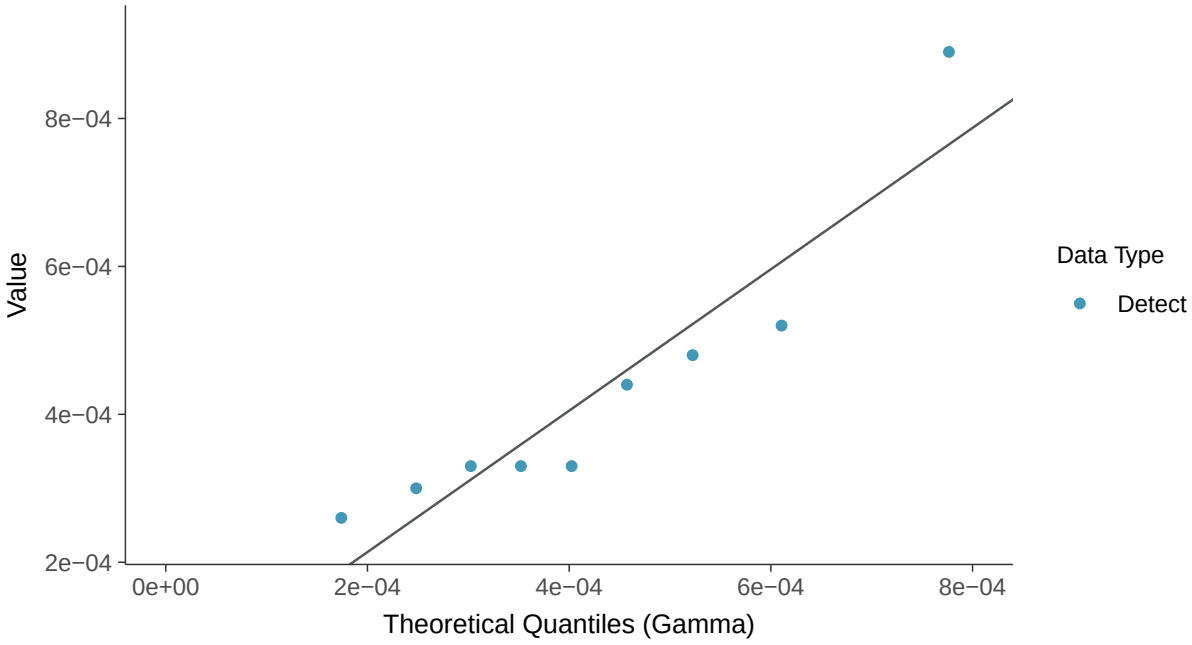
Lognormal Q-Q plot

Cobalt, MW-17 (mg/L)



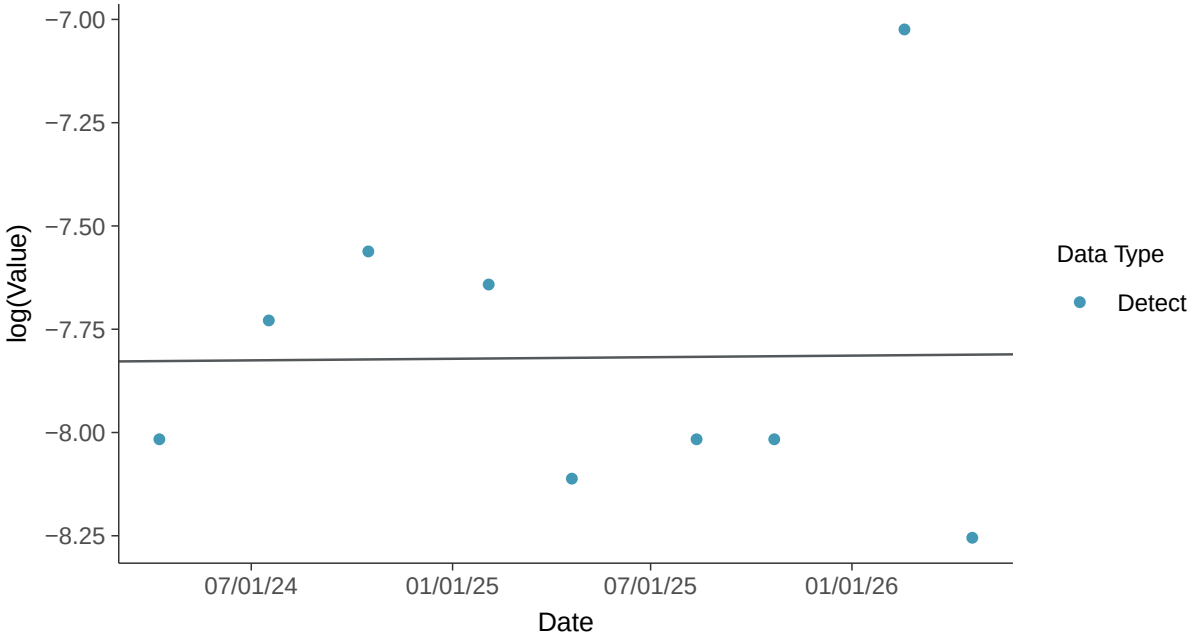
Gamma Q-Q plot

Cobalt, MW-17 (mg/L)



Trend Regression: Lognormal MLE

Cobalt, MW-17 (mg/L)

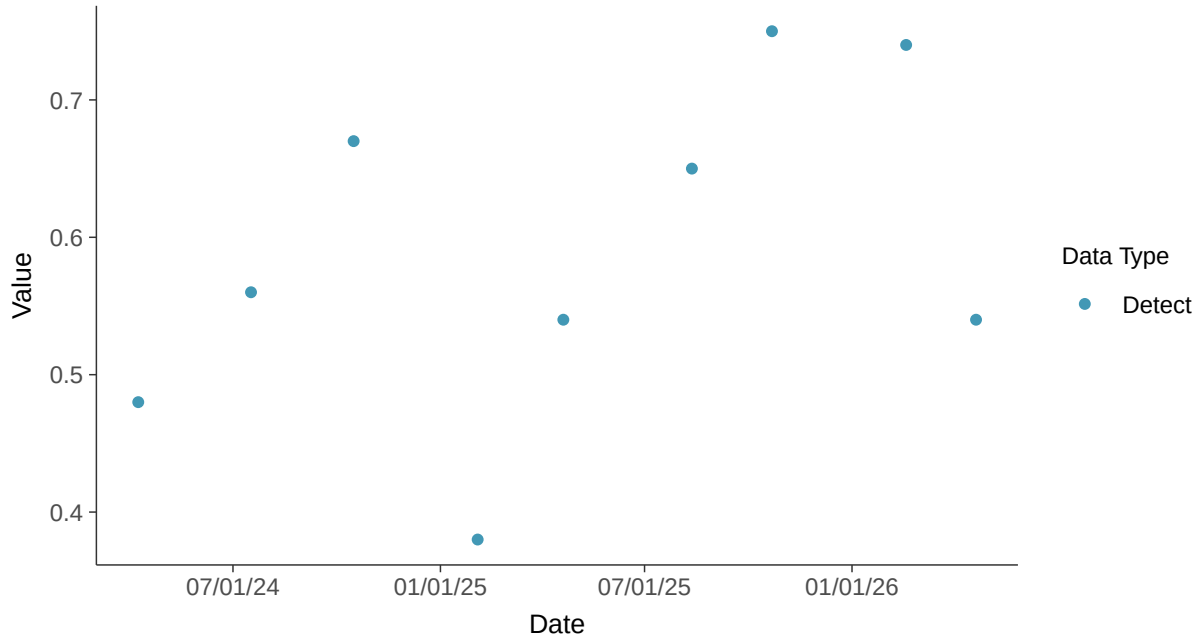


Appendix IV: Fluoride (App IV), MW-17

ID: 27_1_4_113

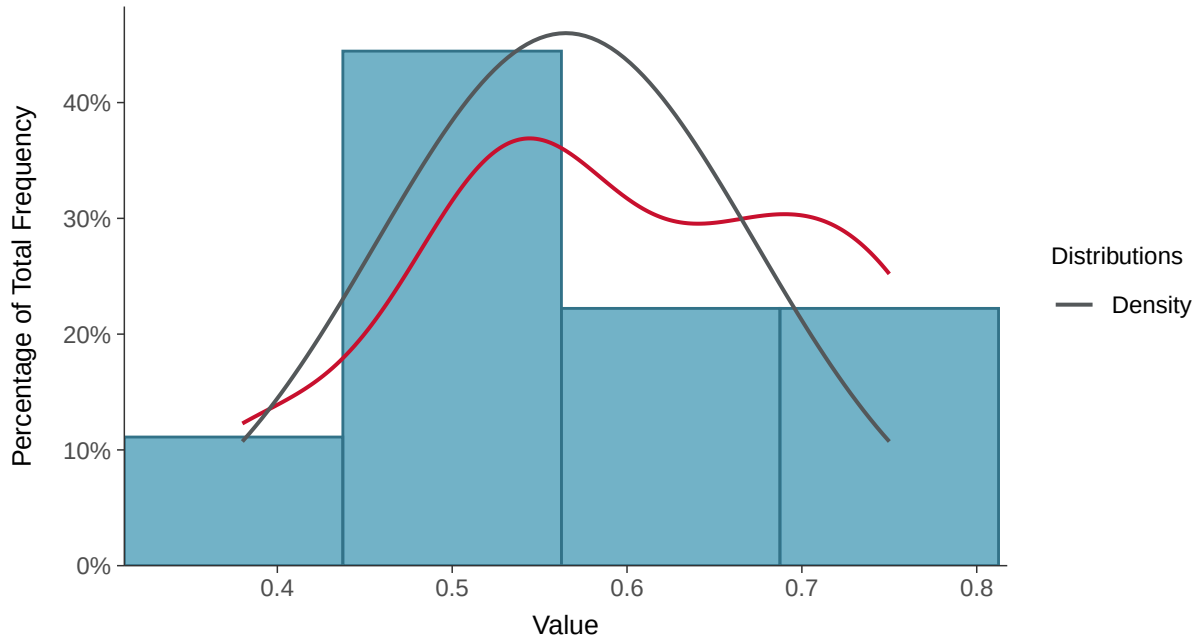
Scatter Plot

Fluoride (App IV), MW-17 (mg/L)



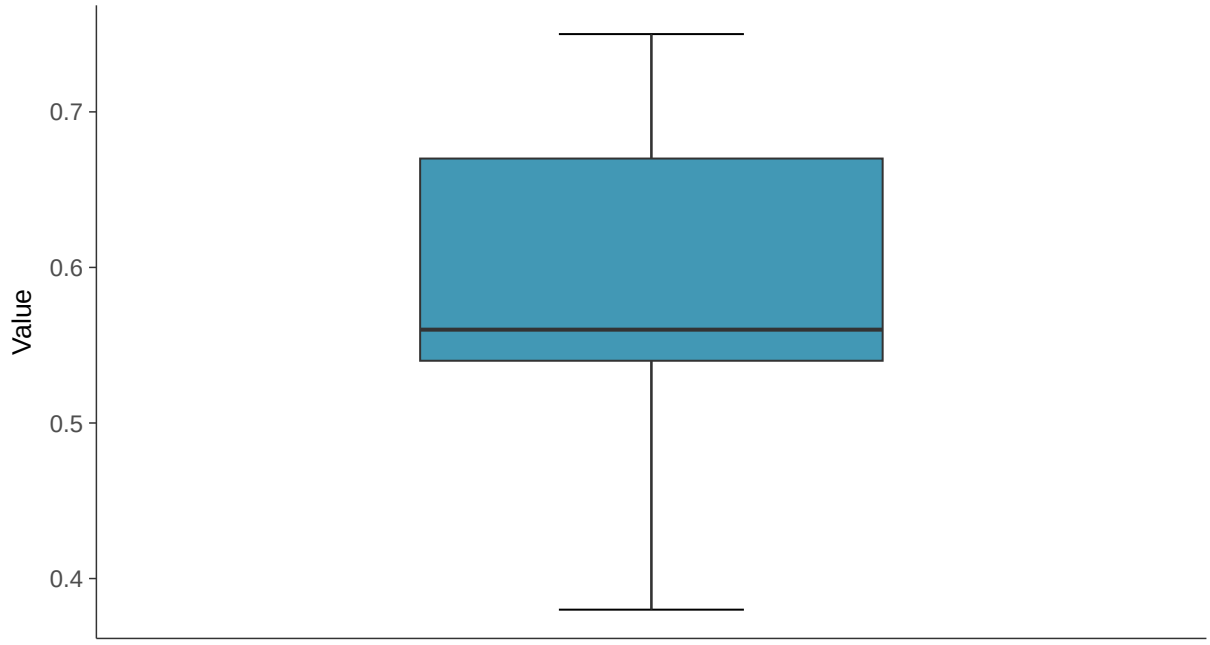
Histogram

Fluoride (App IV), MW-17 (mg/L)



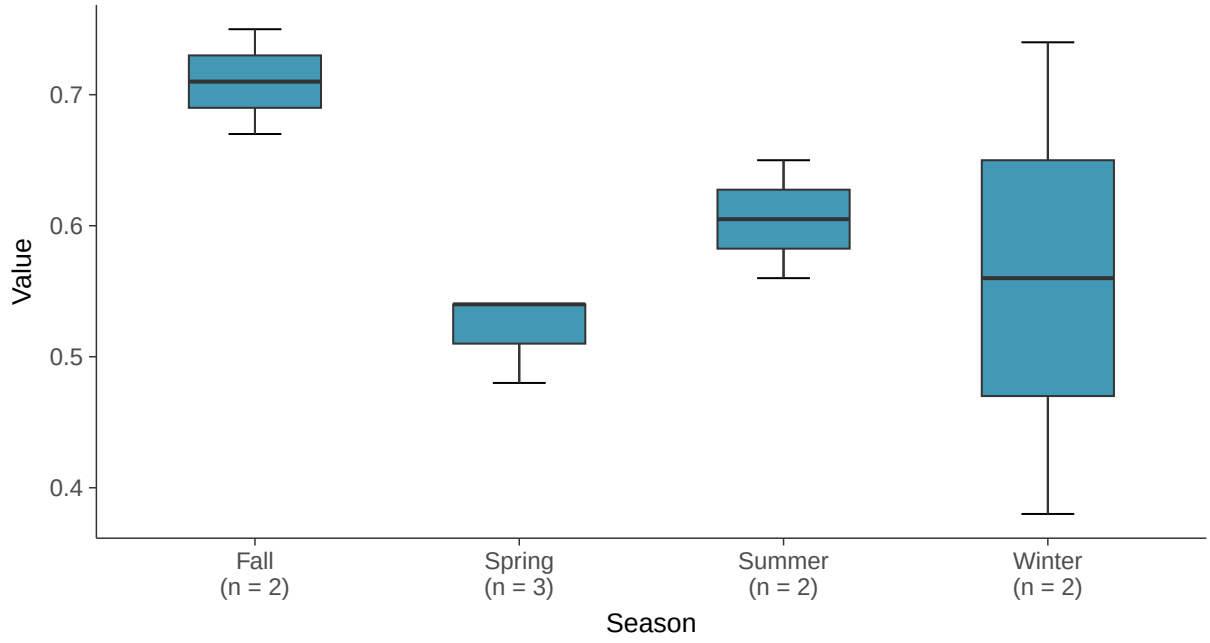
Boxplot

Fluoride (App IV), MW-17 (mg/L)



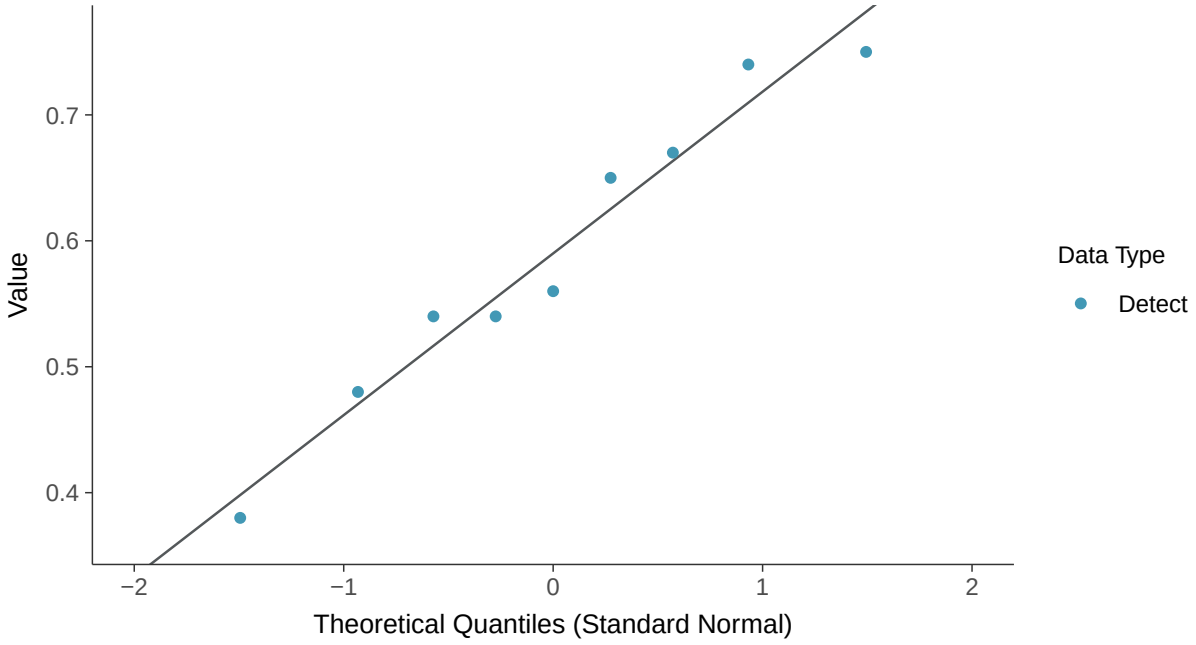
Boxplot by Season

Fluoride (App IV), MW-17 (mg/L)



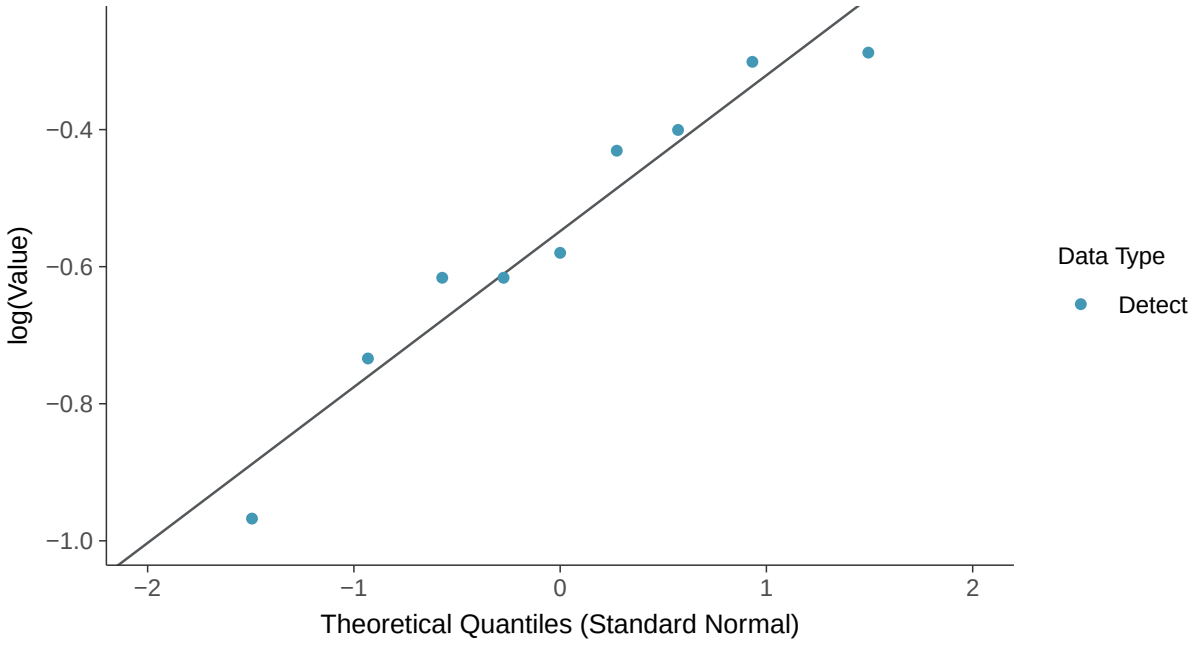
Normal Q-Q plot

Fluoride (App IV), MW-17 (mg/L)



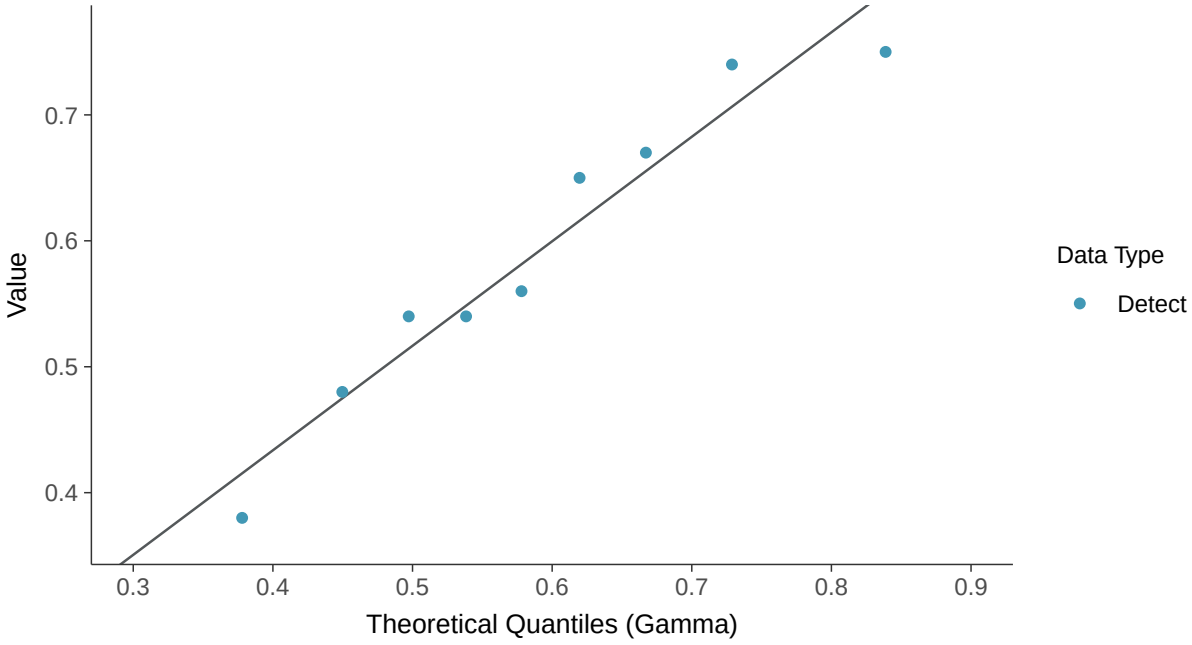
Lognormal Q-Q plot

Fluoride (App IV), MW-17 (mg/L)



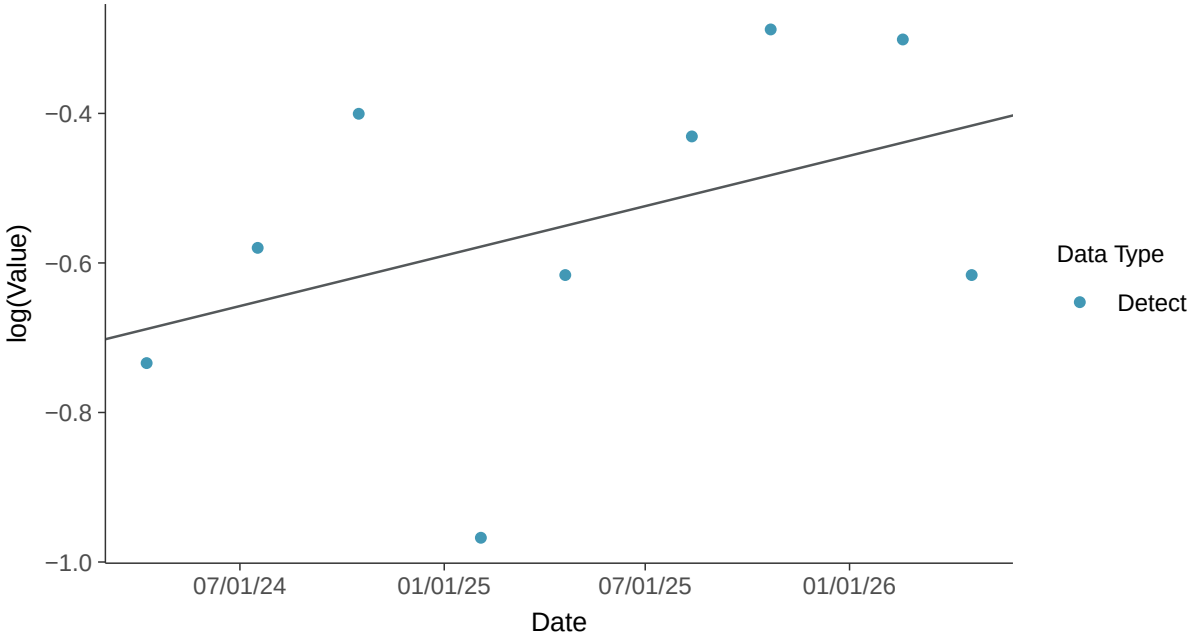
Gamma Q-Q plot

Fluoride (App IV), MW-17 (mg/L)



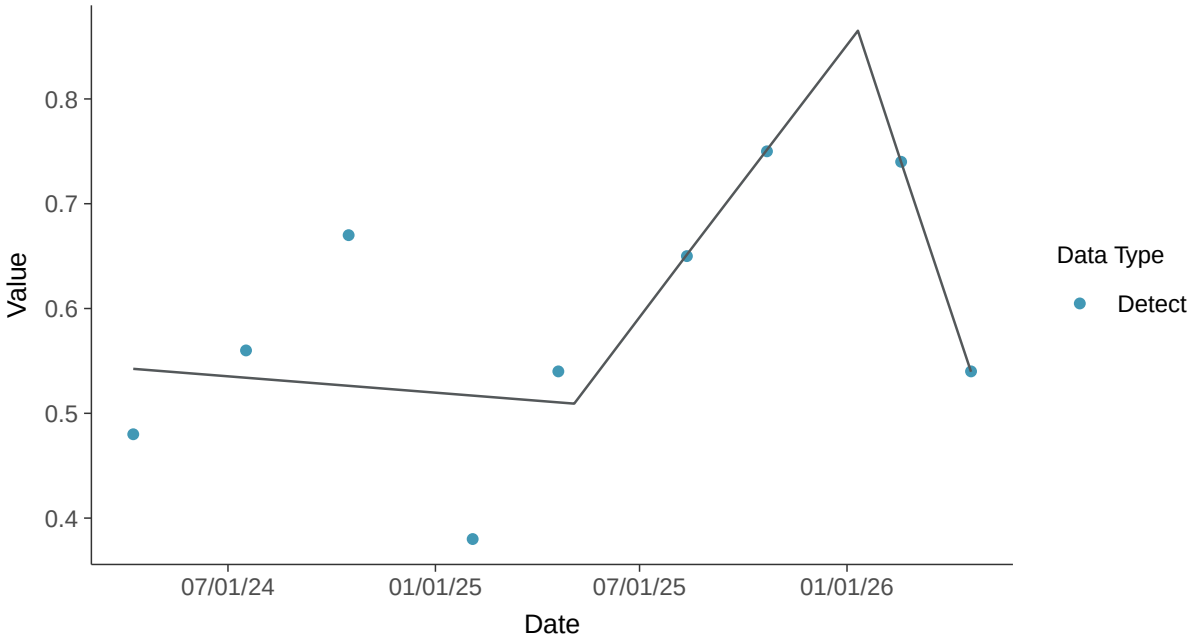
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-17 (mg/L)



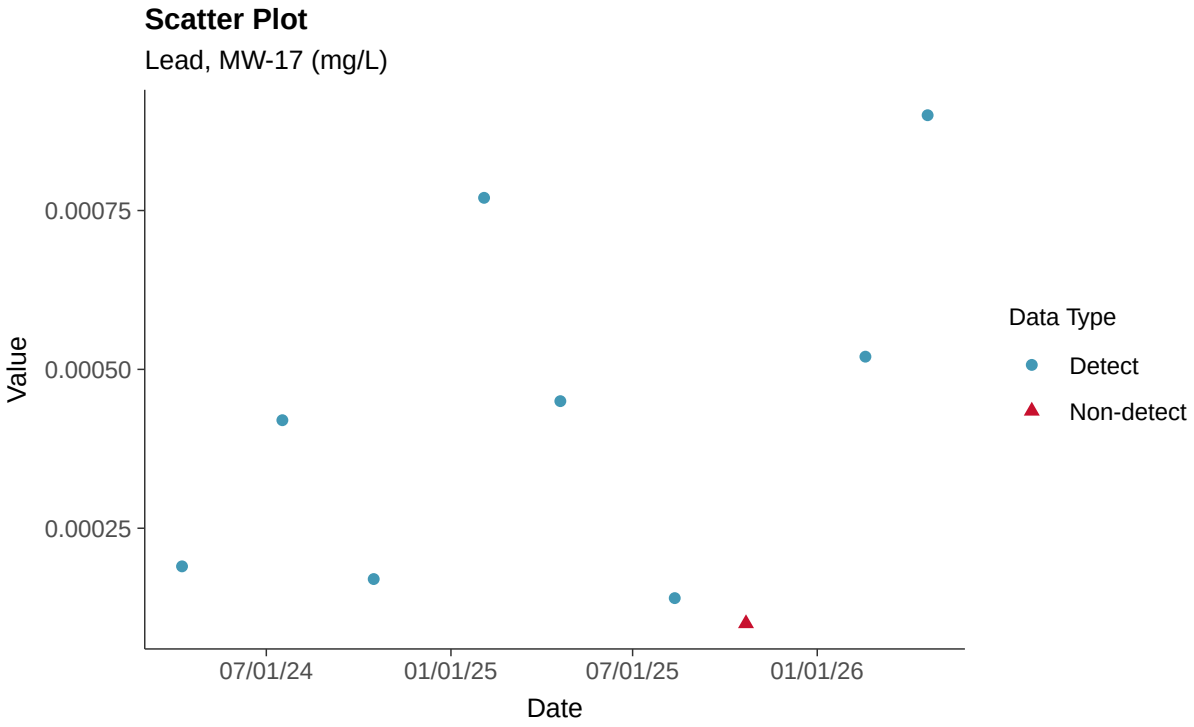
Trend Regression: Piecewise Linear-Linear-Linear

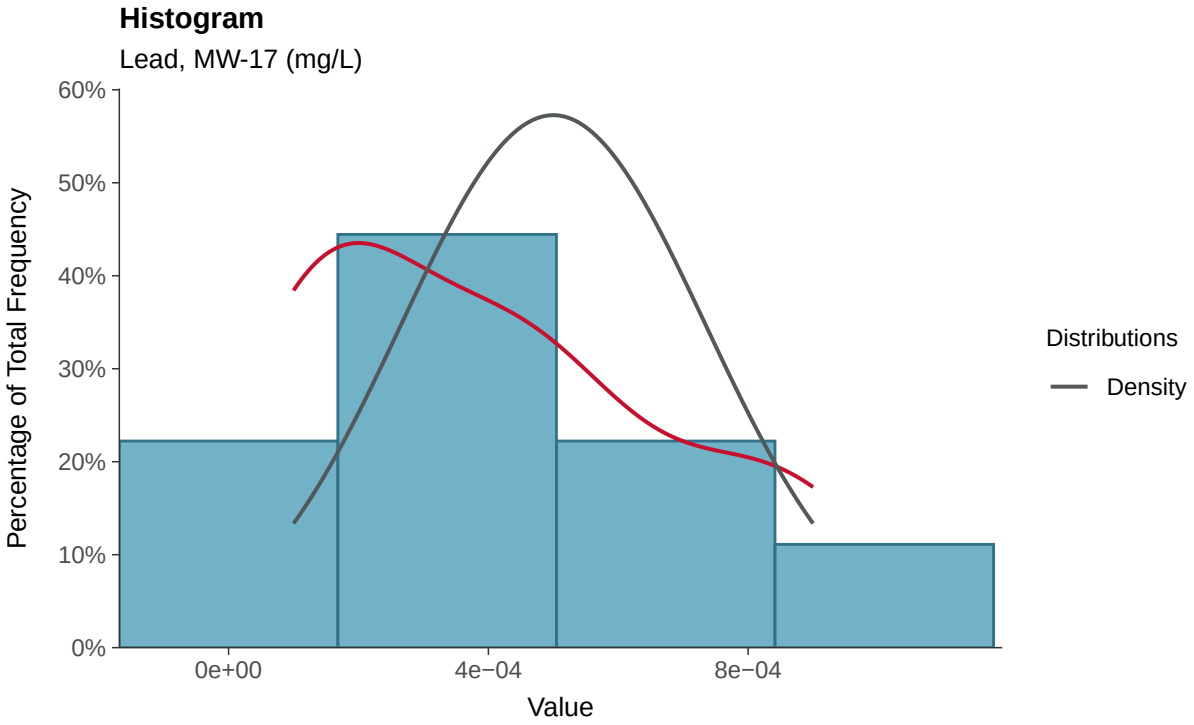
Fluoride (App IV), MW-17 (mg/L)



Appendix IV: Lead, MW-17

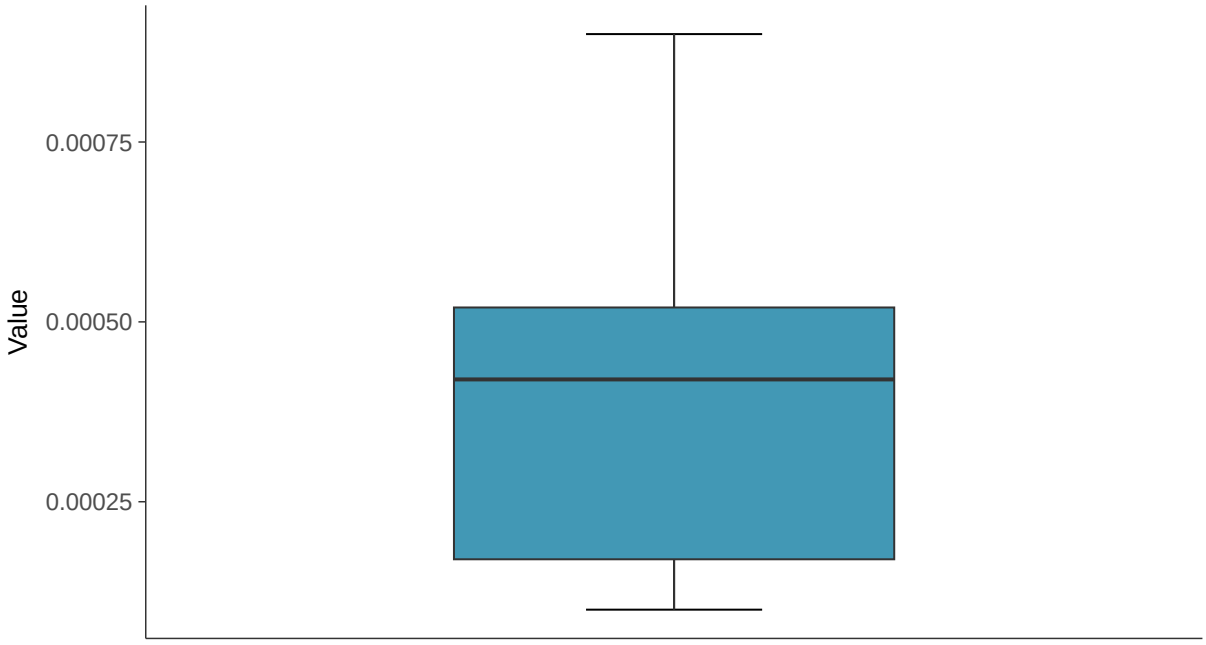
ID: 27_1_4_115





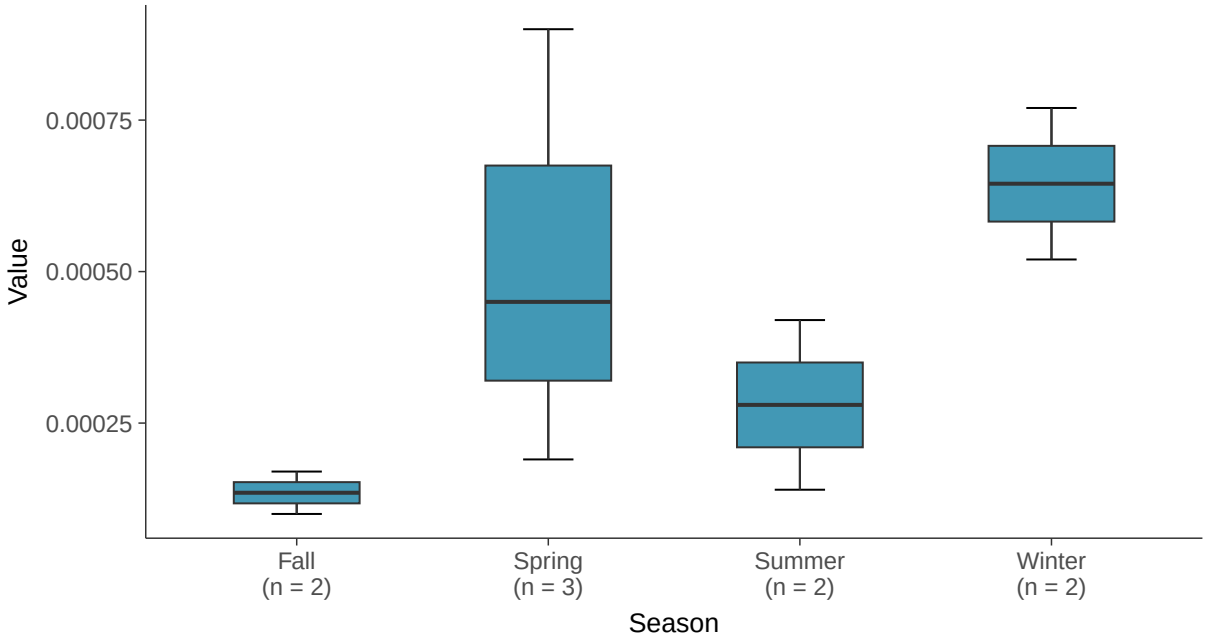
Boxplot

Lead, MW-17 (mg/L)



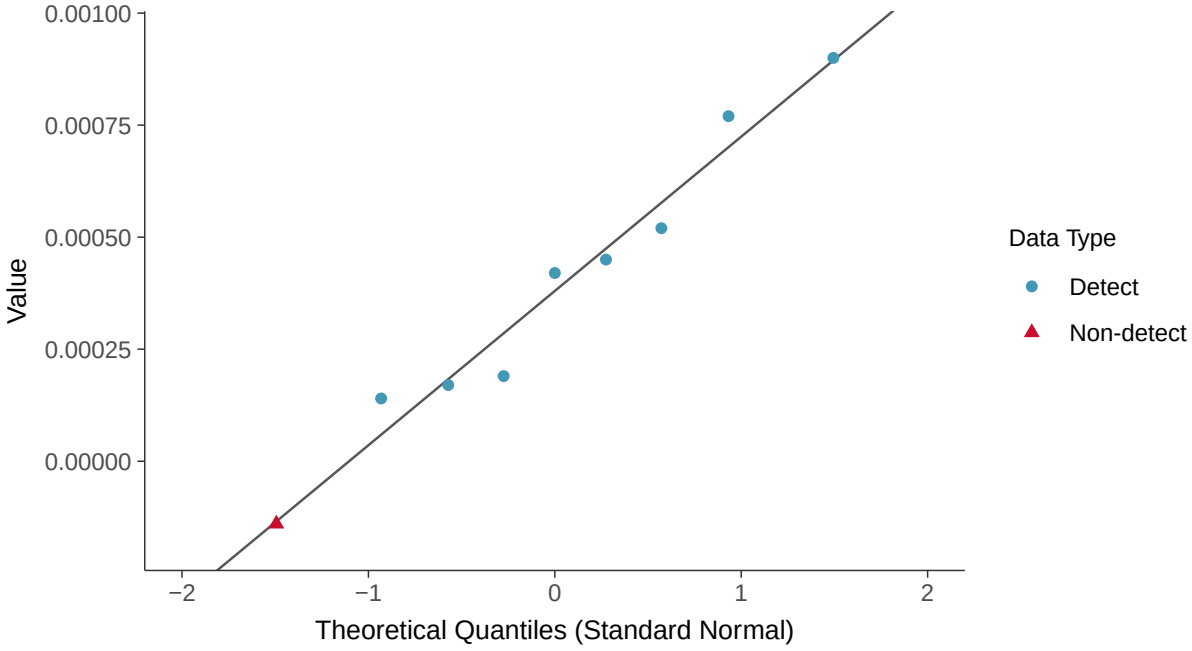
Boxplot by Season

Lead, MW-17 (mg/L)



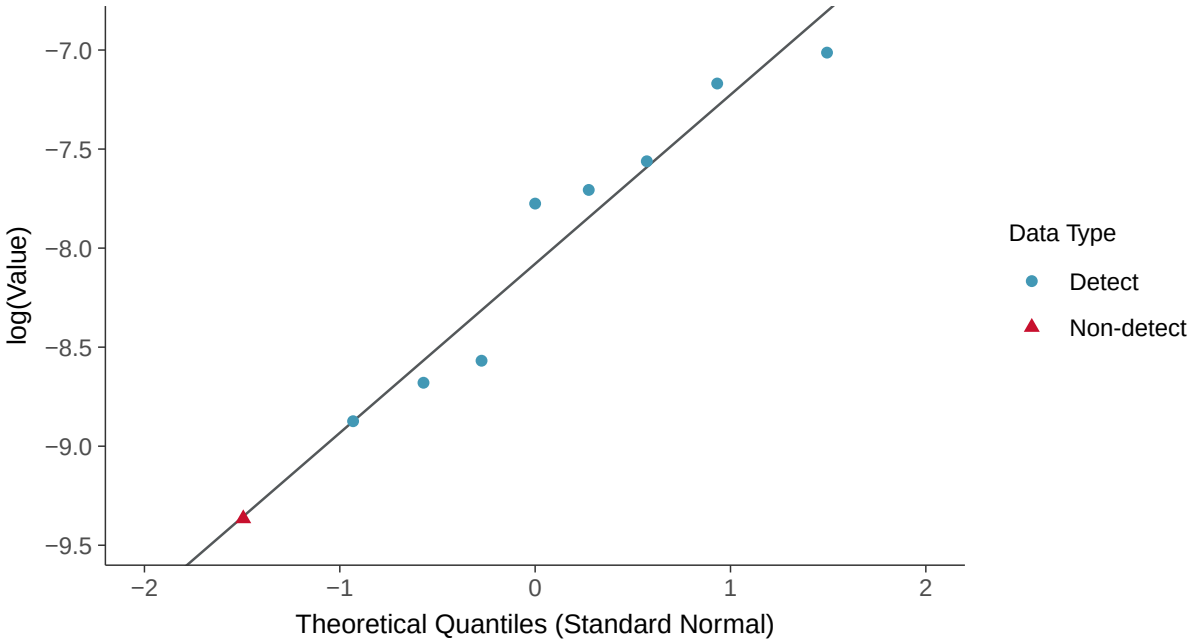
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-17 (mg/L)



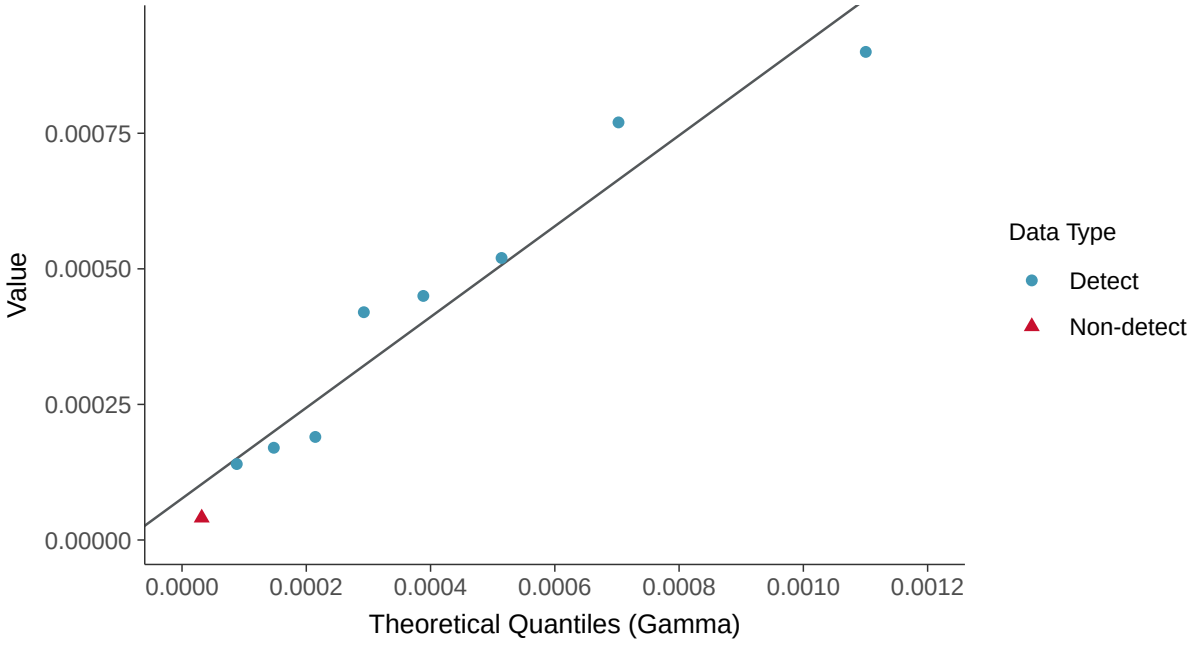
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-17 (mg/L)



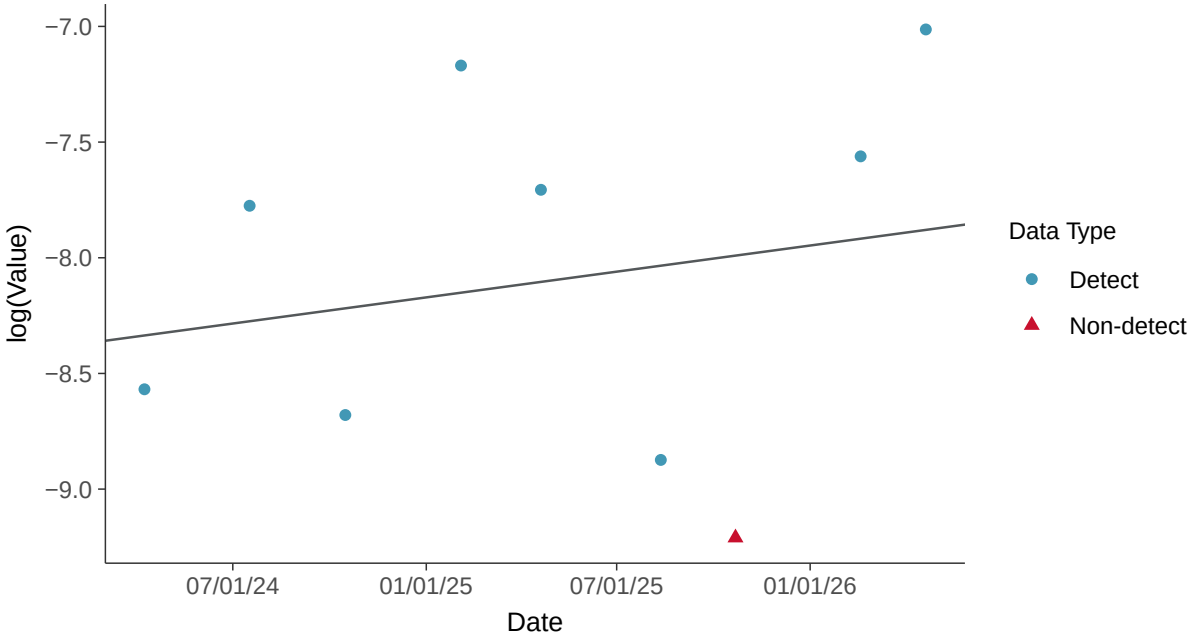
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-17 (mg/L)



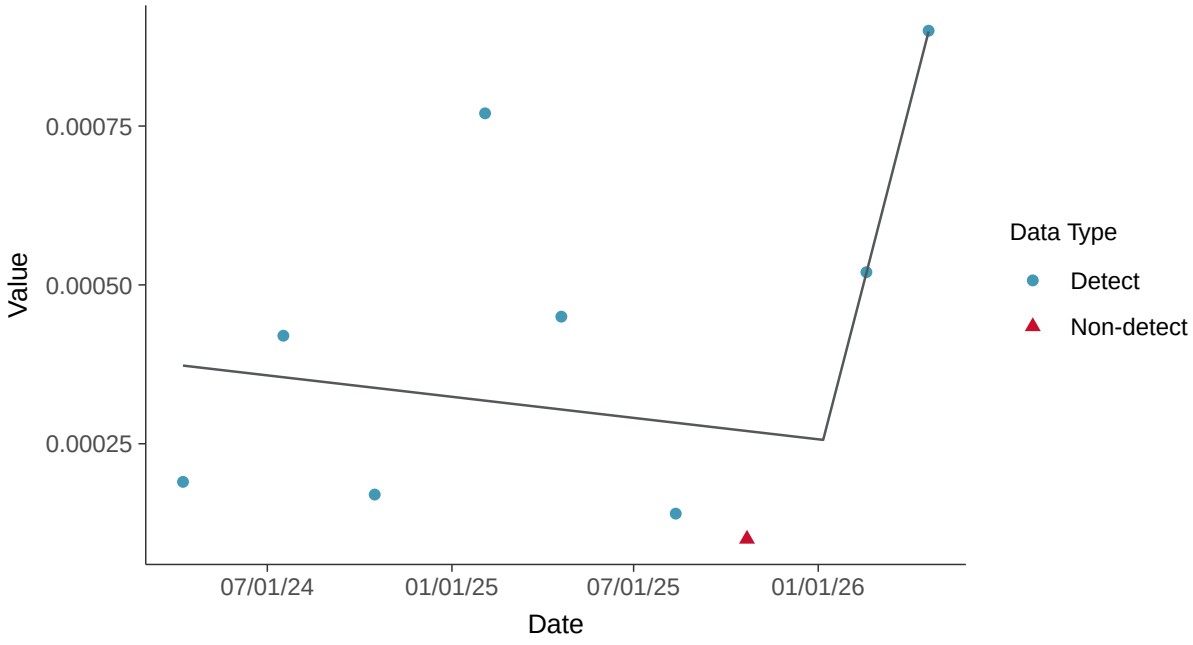
Trend Regression: Lognormal MLE

Lead, MW-17 (mg/L)



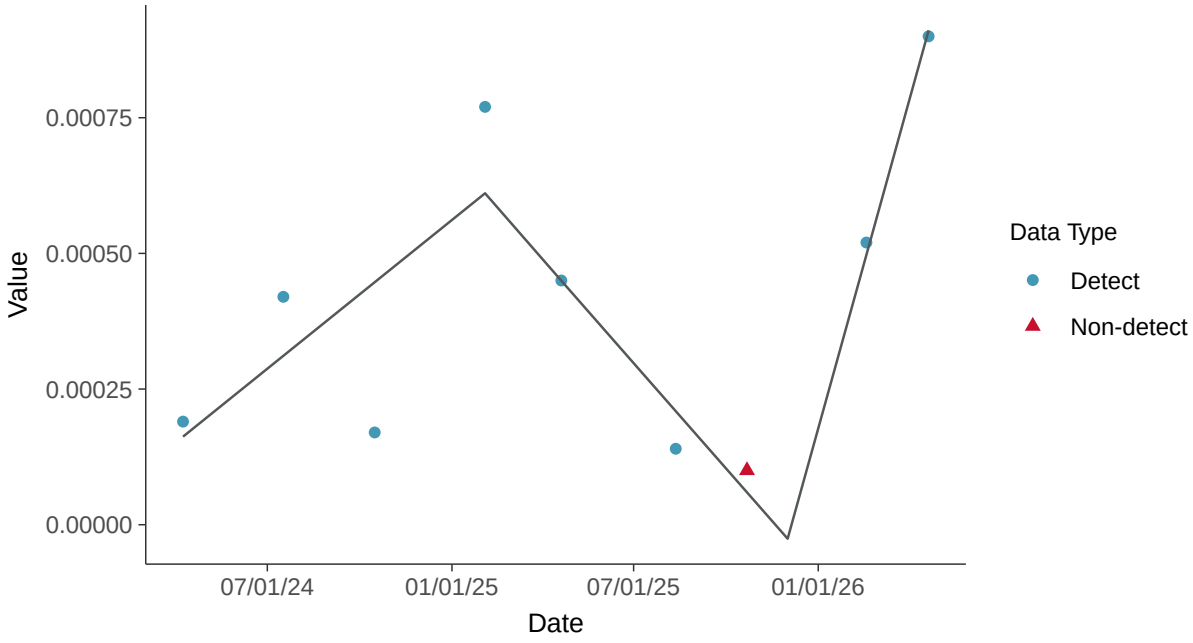
Trend Regression: Piecewise Linear-Linear

Lead, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-17 (mg/L)

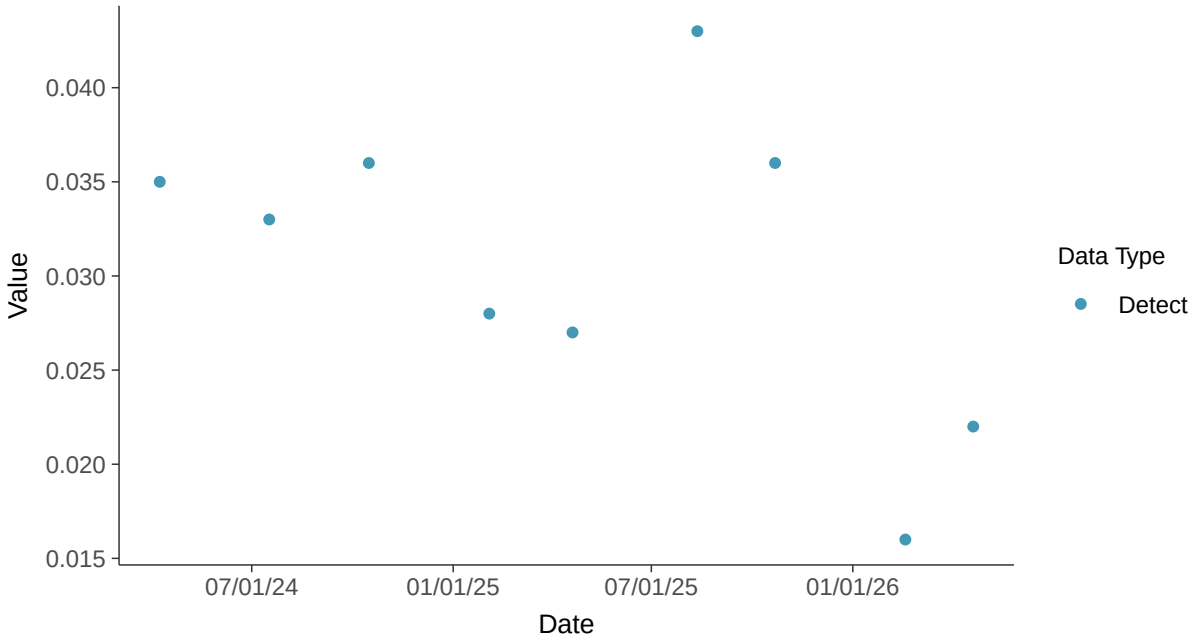


Appendix IV: Lithium, MW-17

ID: 27_1_4_116

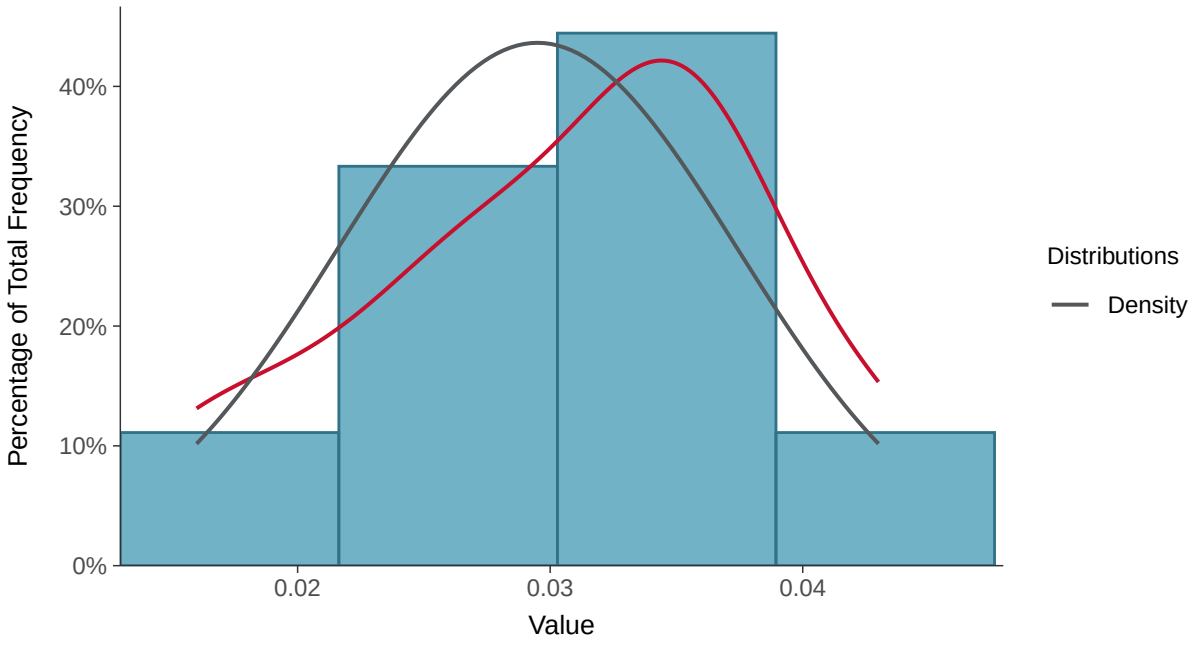
Scatter Plot

Lithium, MW-17 (mg/L)



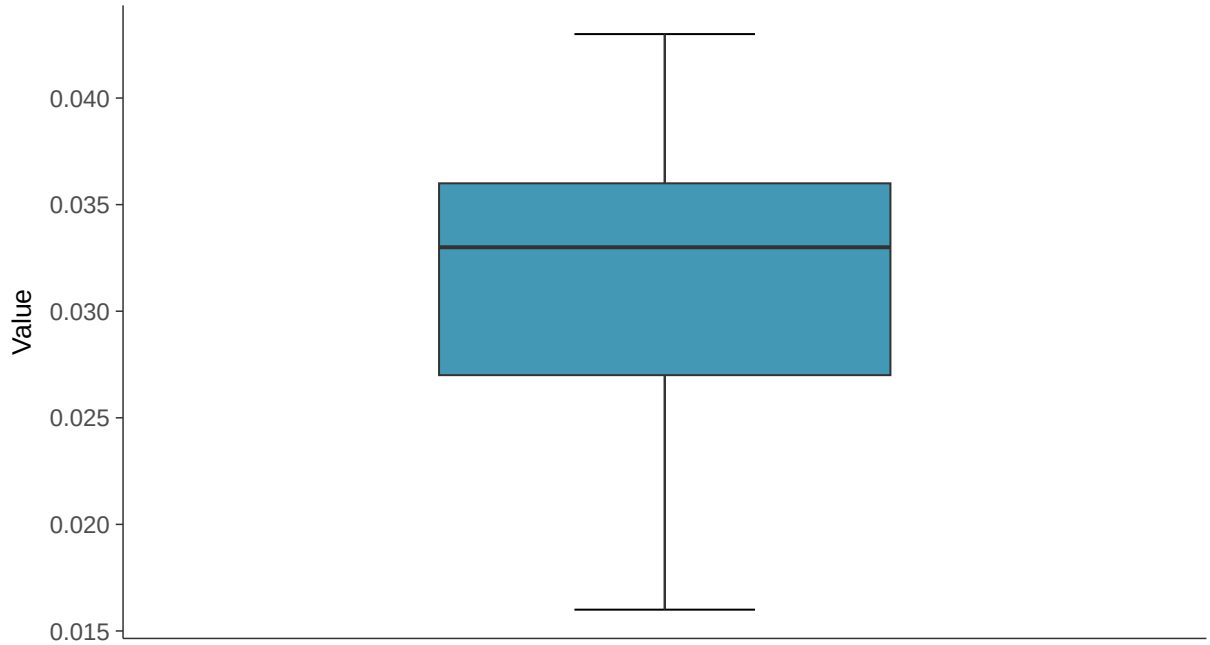
Histogram

Lithium, MW-17 (mg/L)



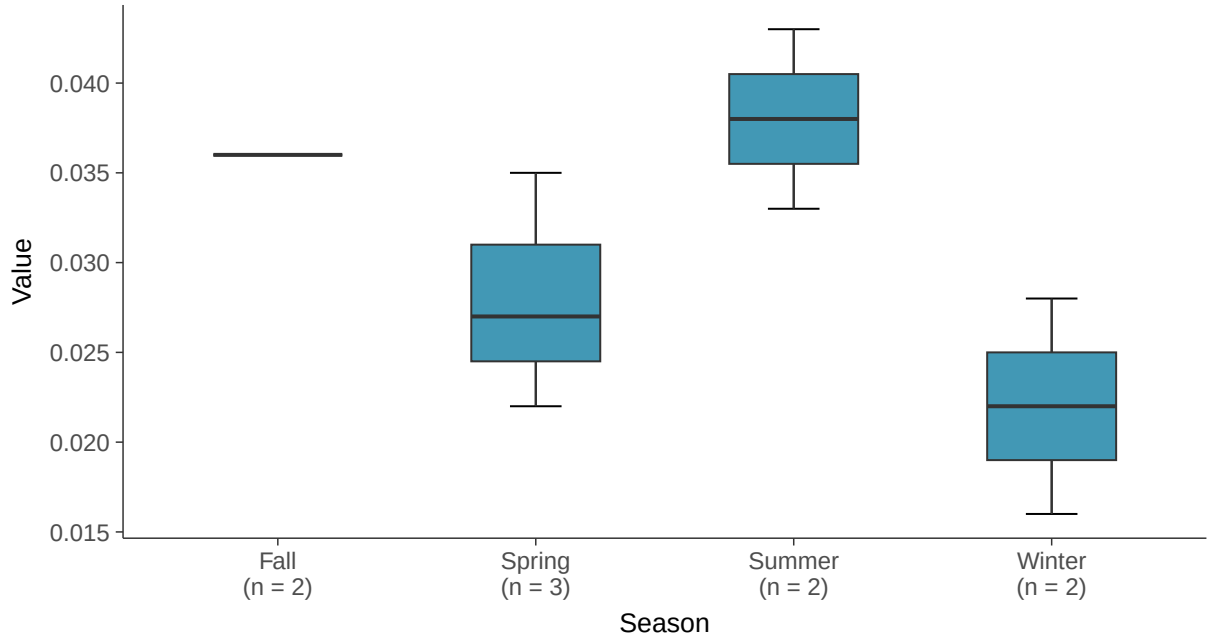
Boxplot

Lithium, MW-17 (mg/L)



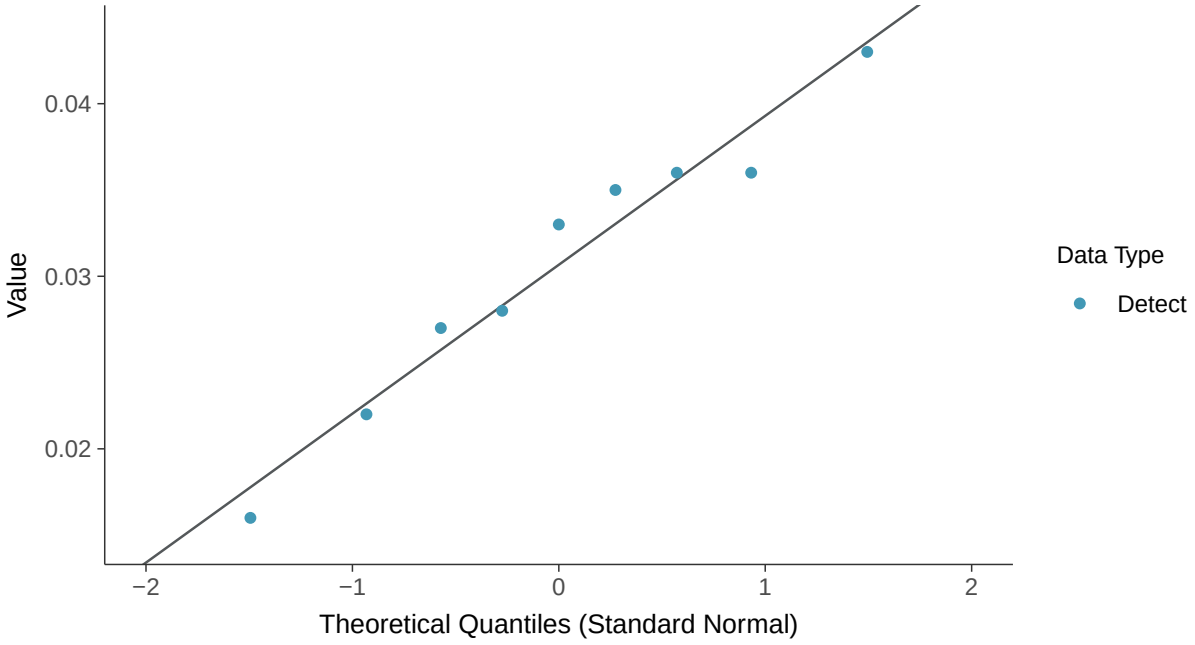
Boxplot by Season

Lithium, MW-17 (mg/L)



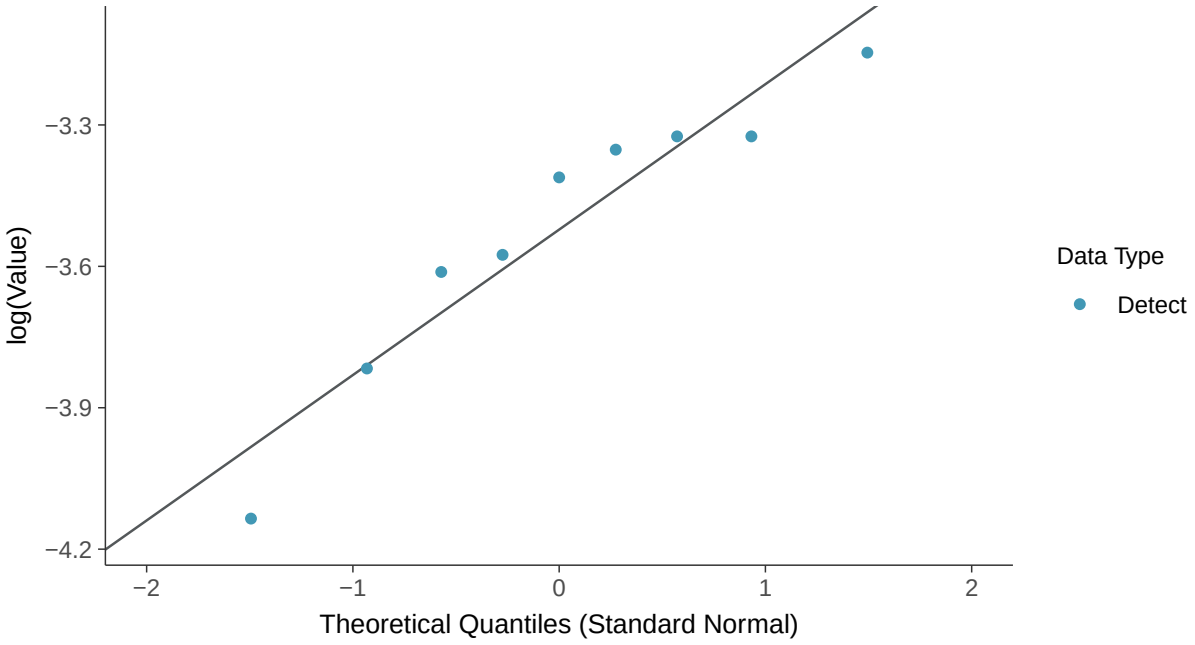
Normal Q-Q plot

Lithium, MW-17 (mg/L)



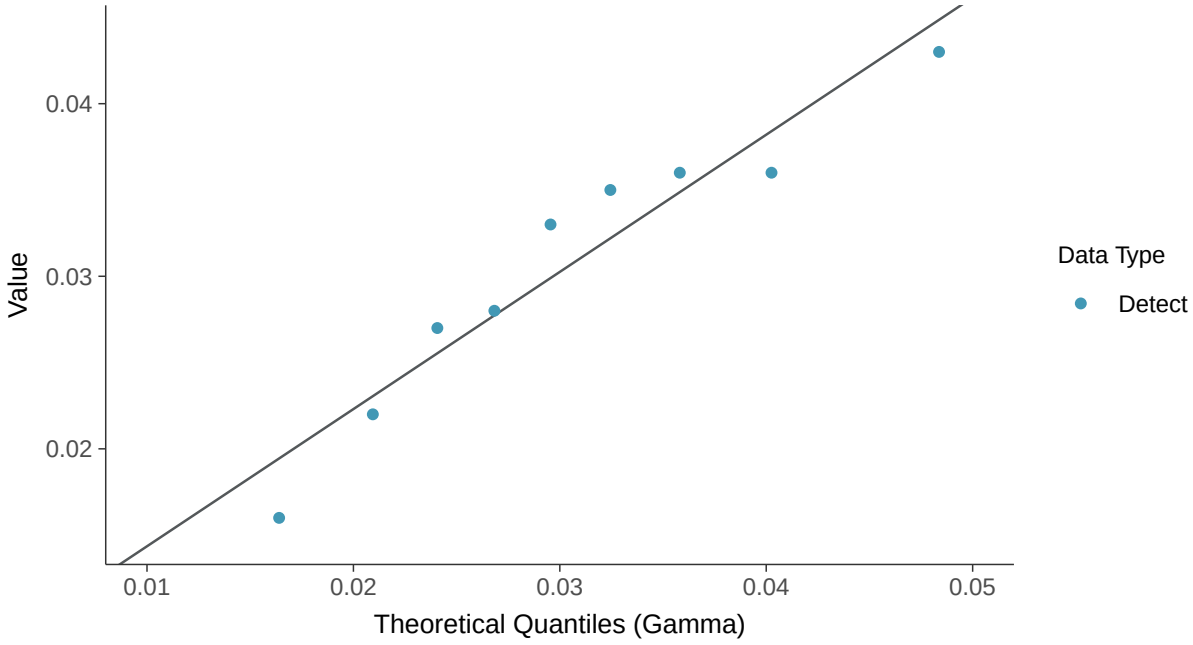
Lognormal Q-Q plot

Lithium, MW-17 (mg/L)



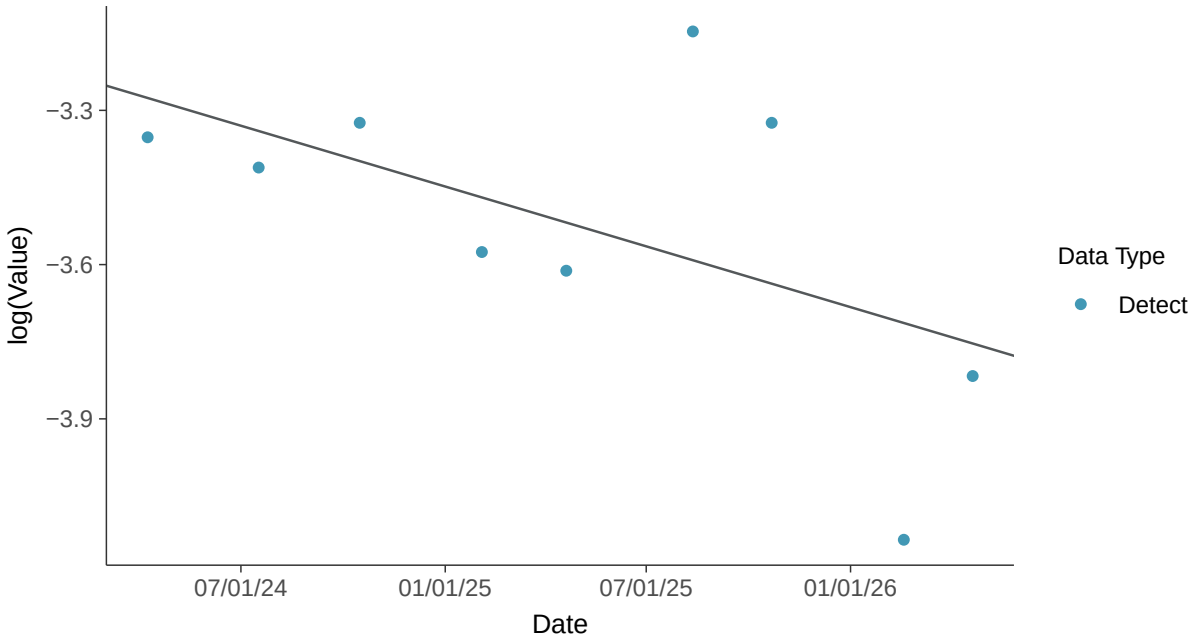
Gamma Q-Q plot

Lithium, MW-17 (mg/L)



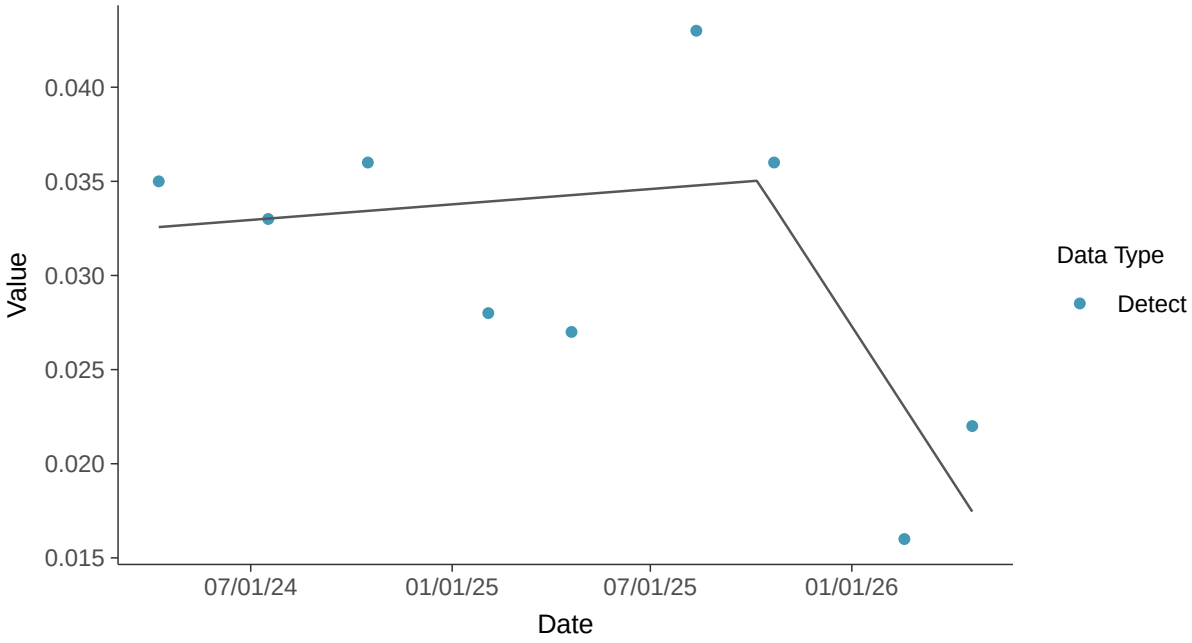
Trend Regression: Lognormal MLE

Lithium, MW-17 (mg/L)



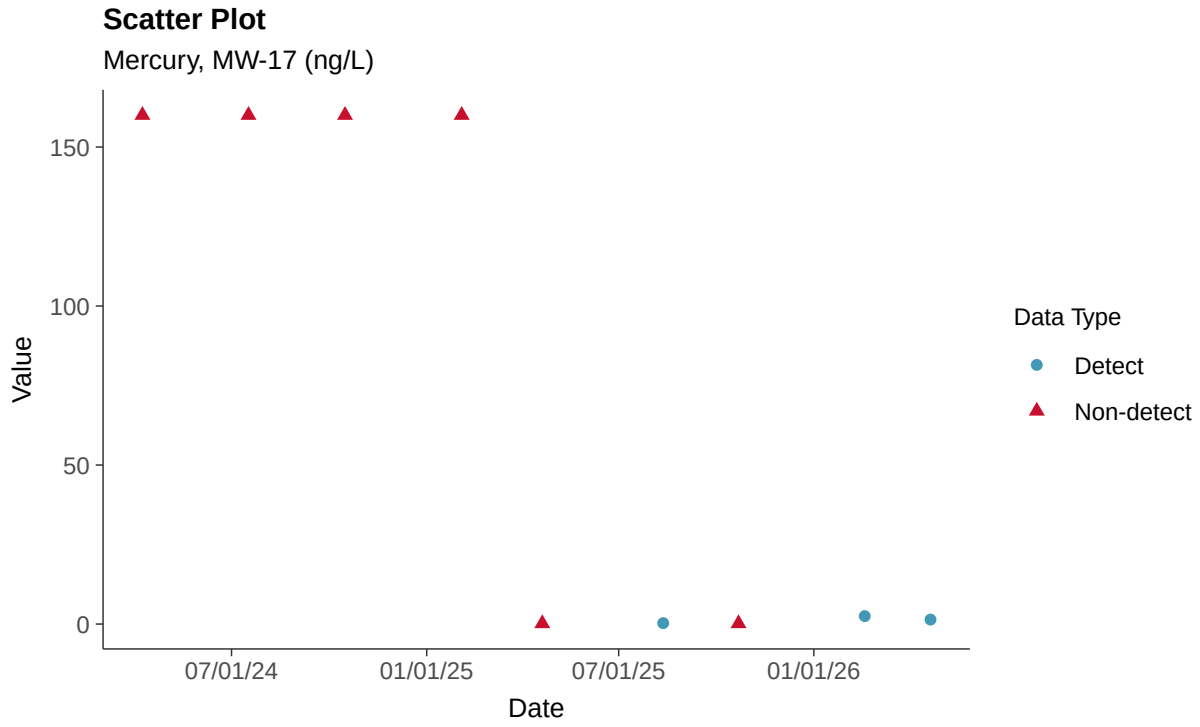
Trend Regression: Piecewise Linear-Linear

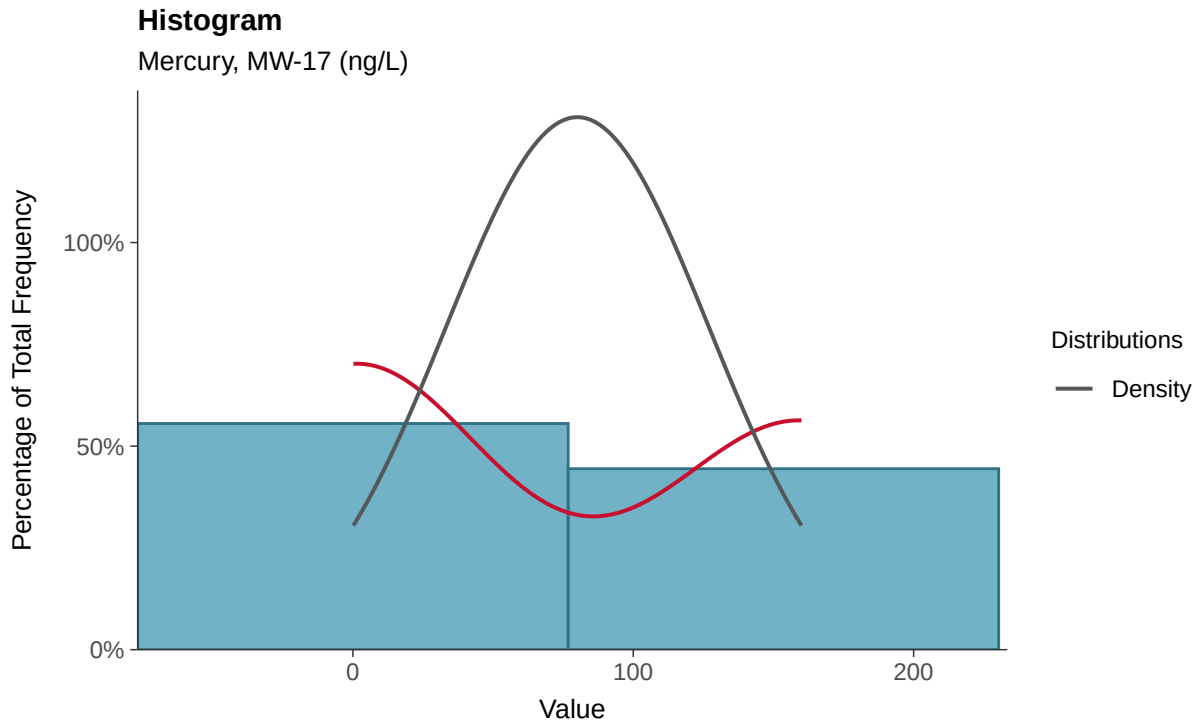
Lithium, MW-17 (mg/L)



Appendix IV: Mercury, MW-17

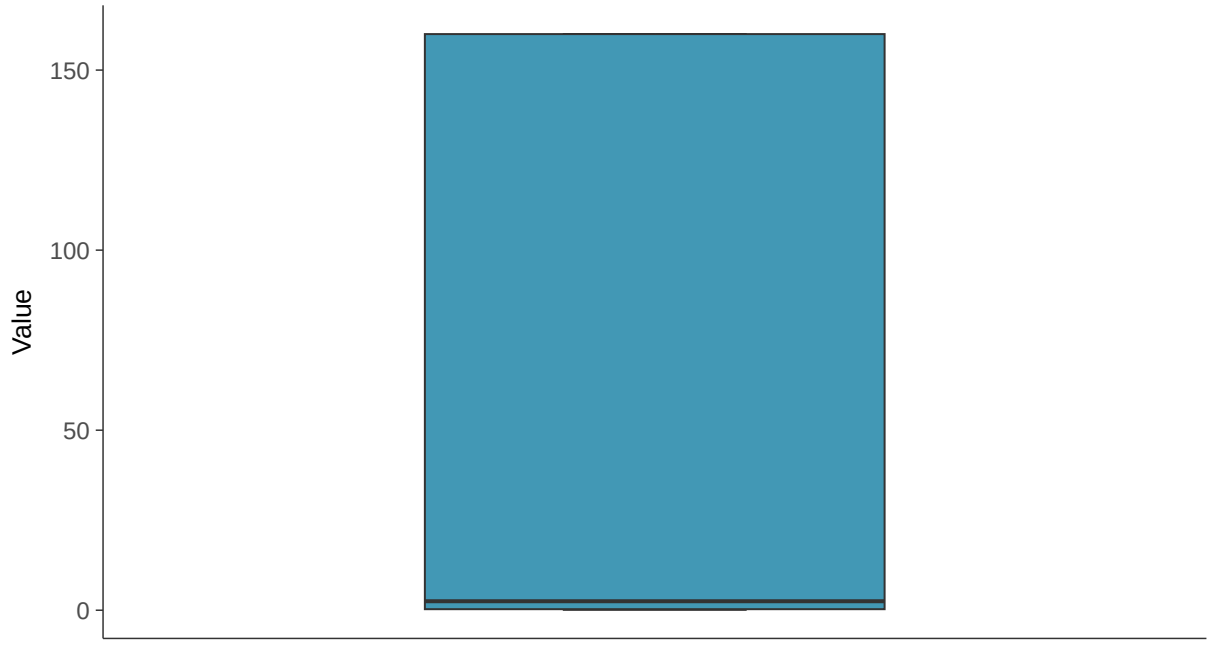
ID: 27_1_4_117





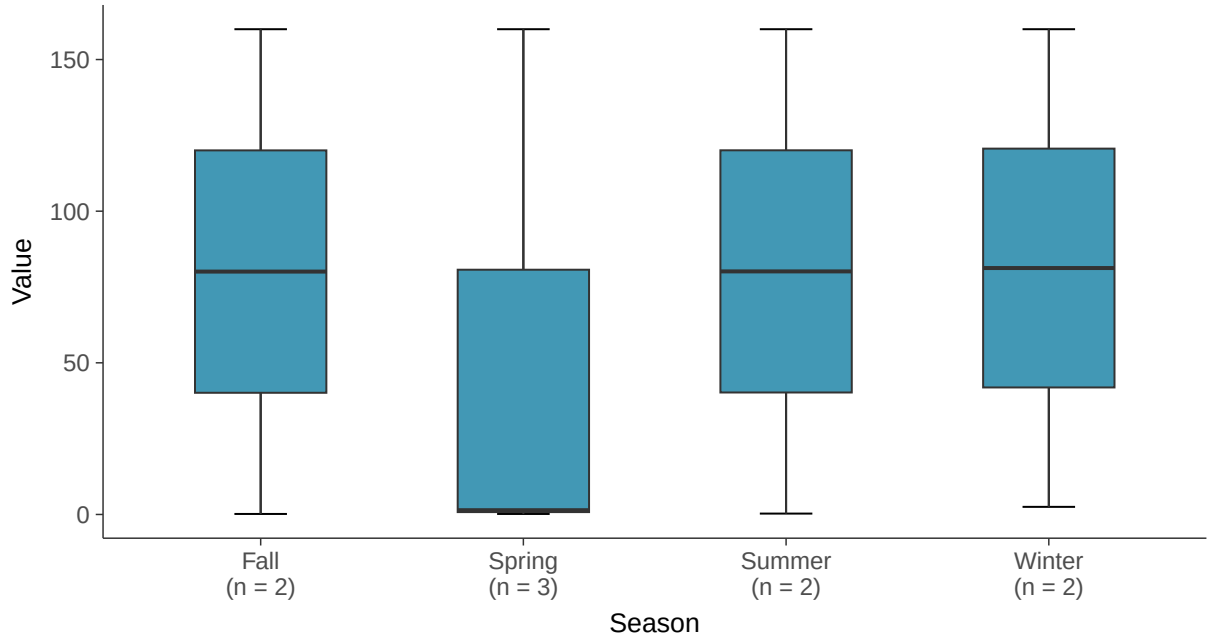
Boxplot

Mercury, MW-17 (ng/L)



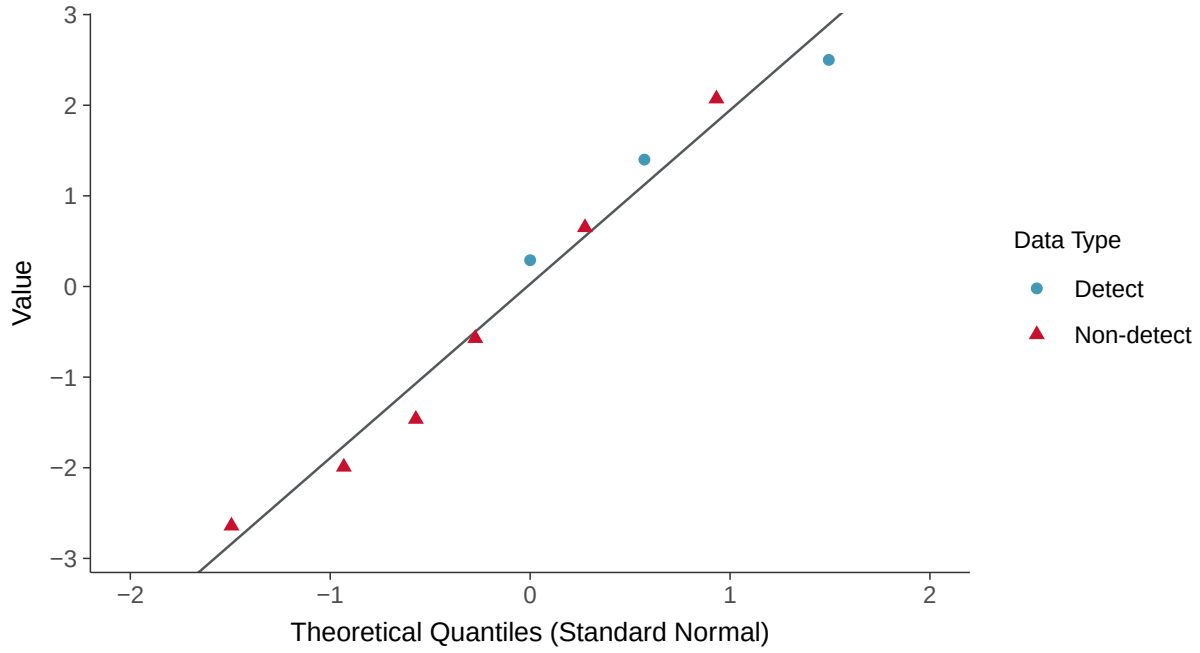
Boxplot by Season

Mercury, MW-17 (ng/L)



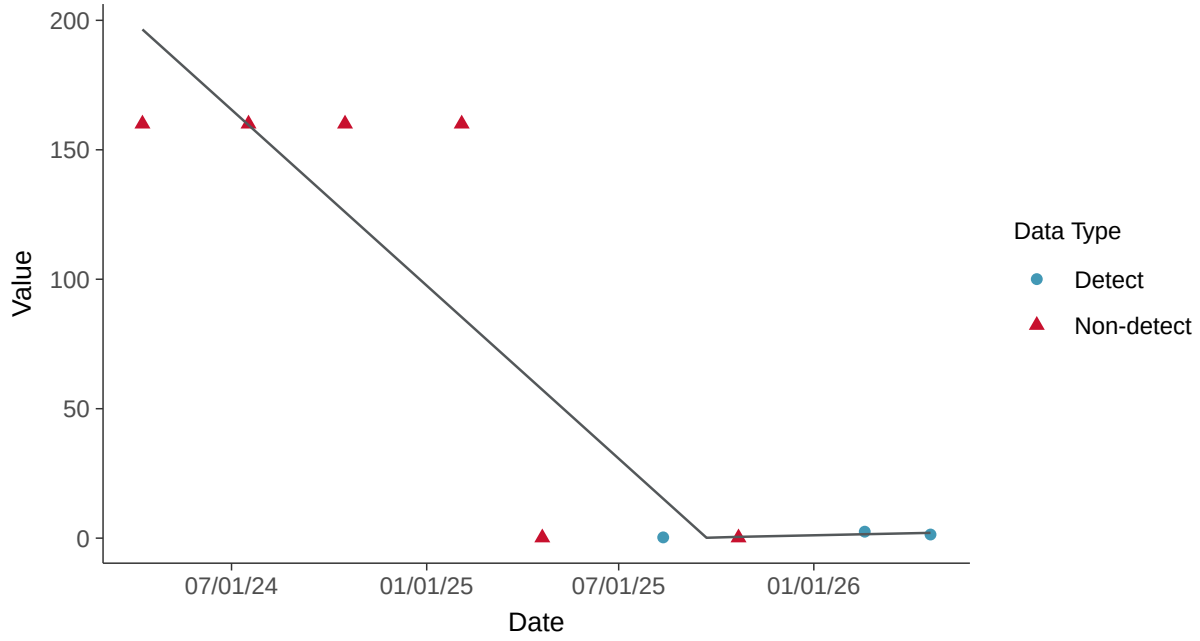
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-17 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-17 (ng/L)

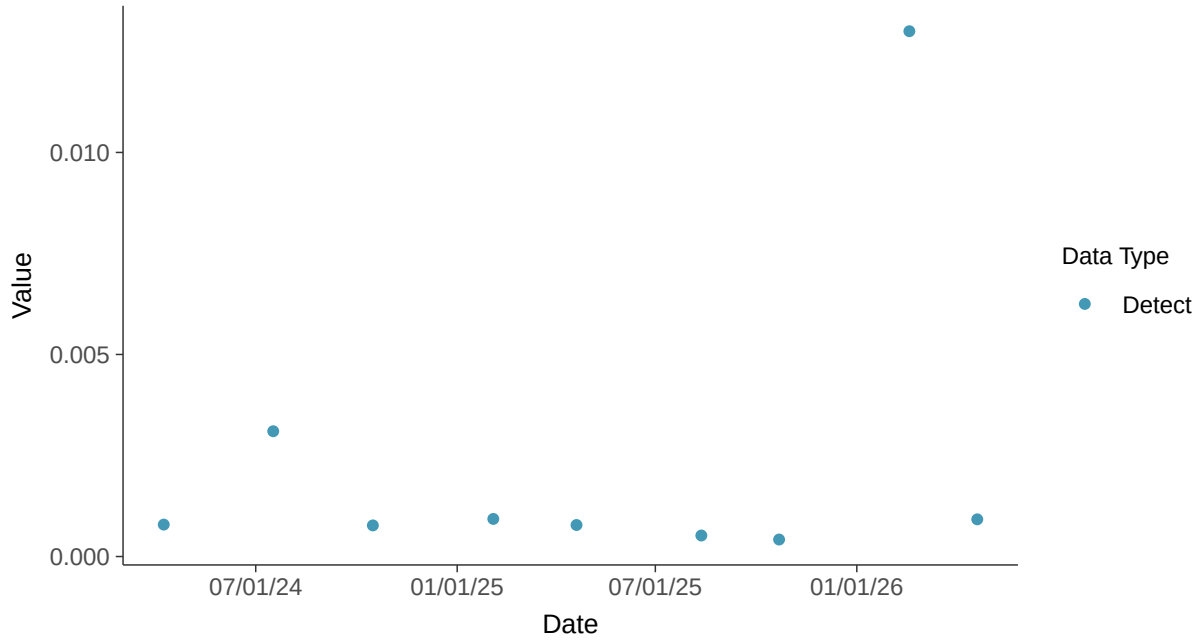


Appendix IV: Molybdenum, MW-17

ID: 27_1_4_118

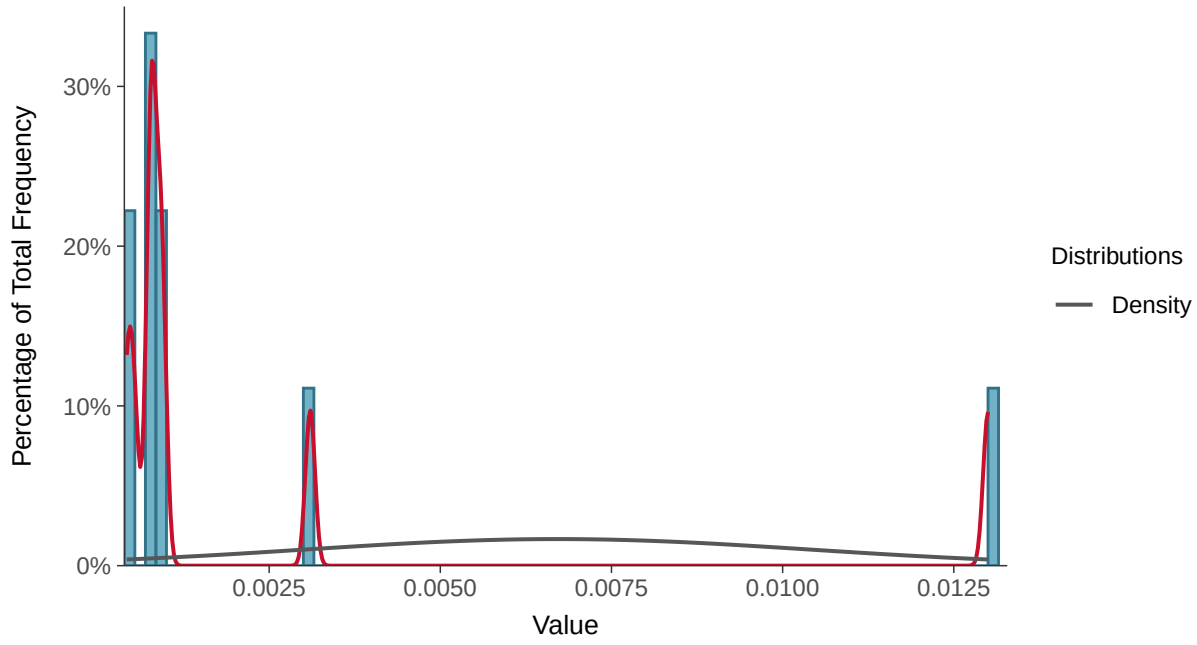
Scatter Plot

Molybdenum, MW-17 (mg/L)



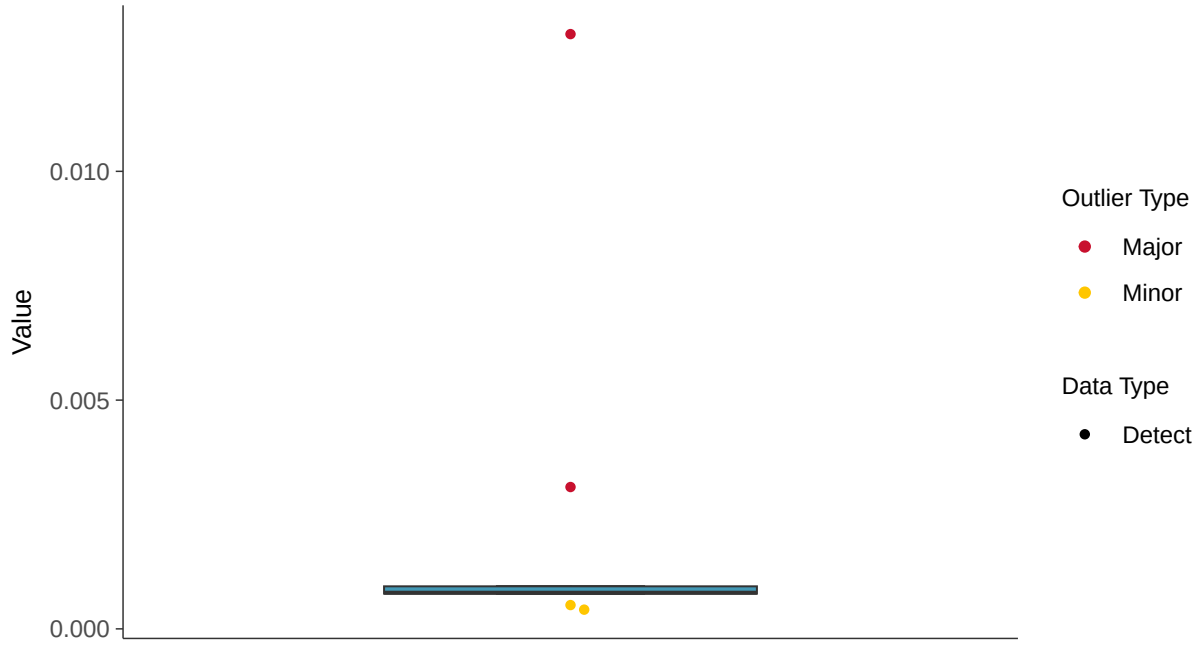
Histogram

Molybdenum, MW-17 (mg/L)



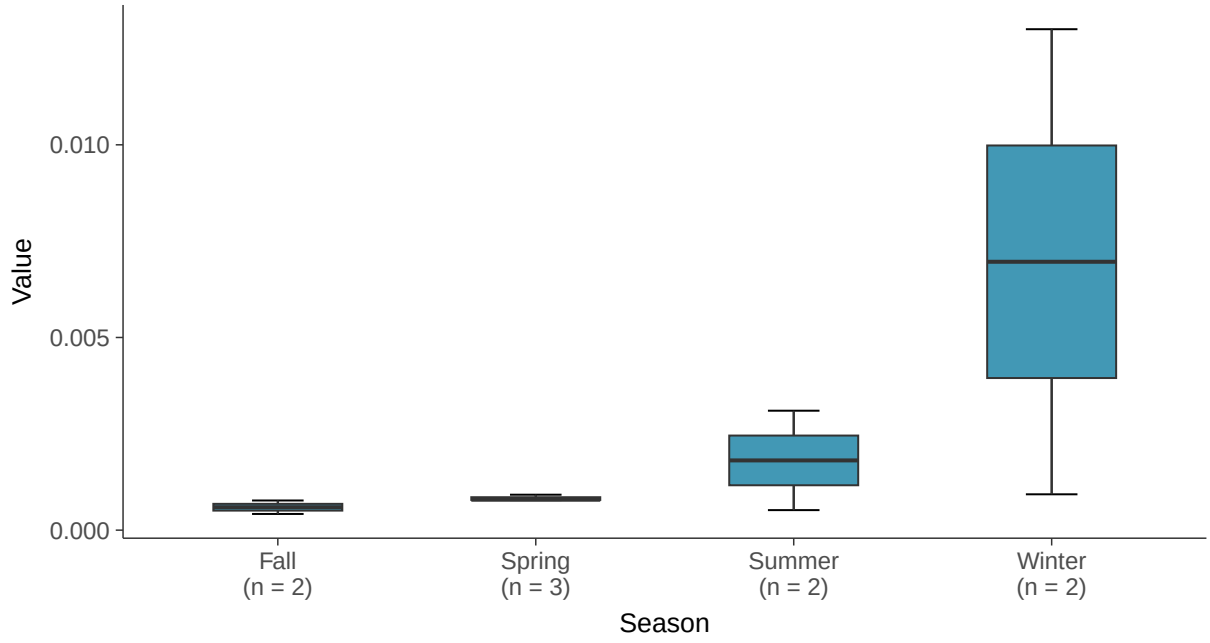
Boxplot

Molybdenum, MW-17 (mg/L)



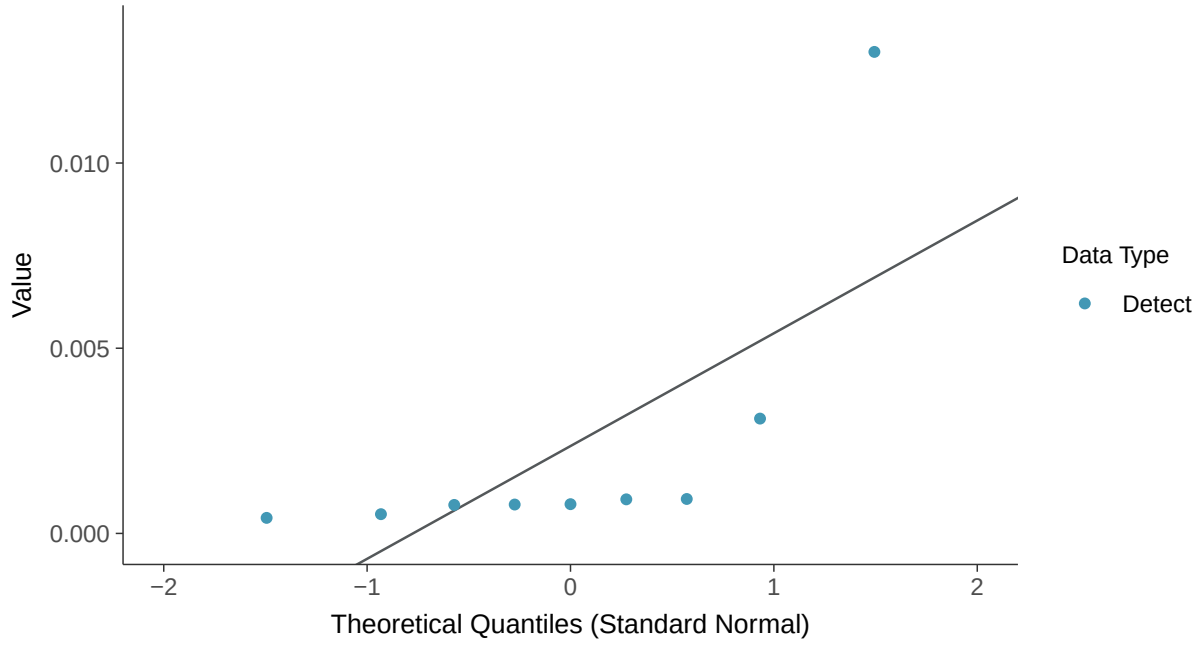
Boxplot by Season

Molybdenum, MW-17 (mg/L)



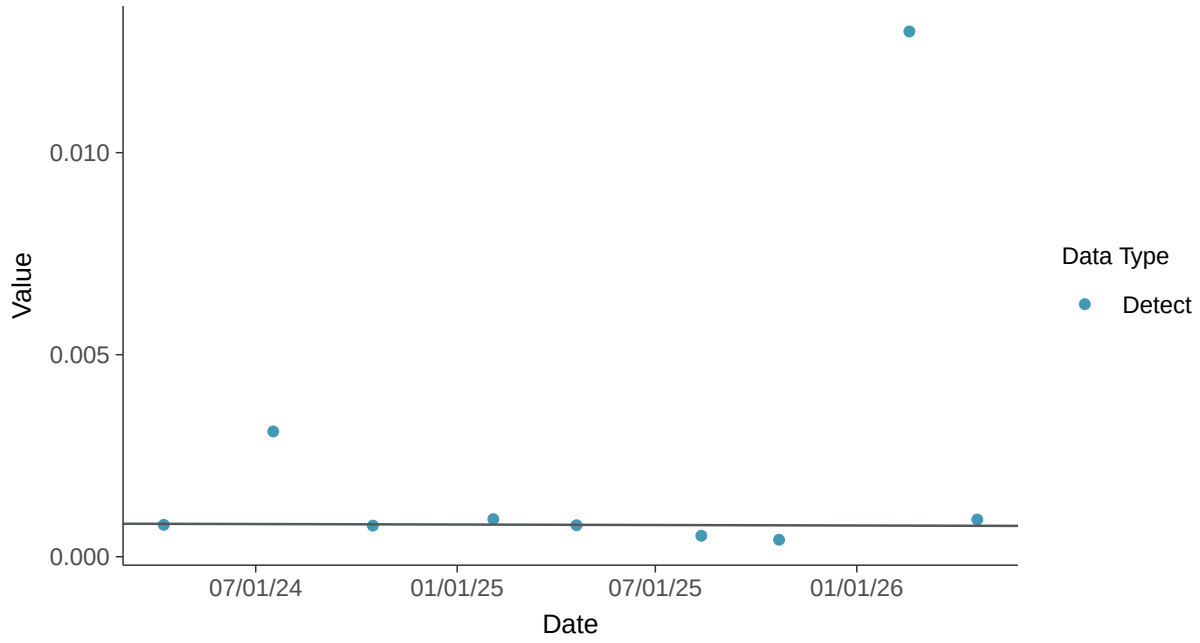
Normal Q-Q plot

Molybdenum, MW-17 (mg/L)



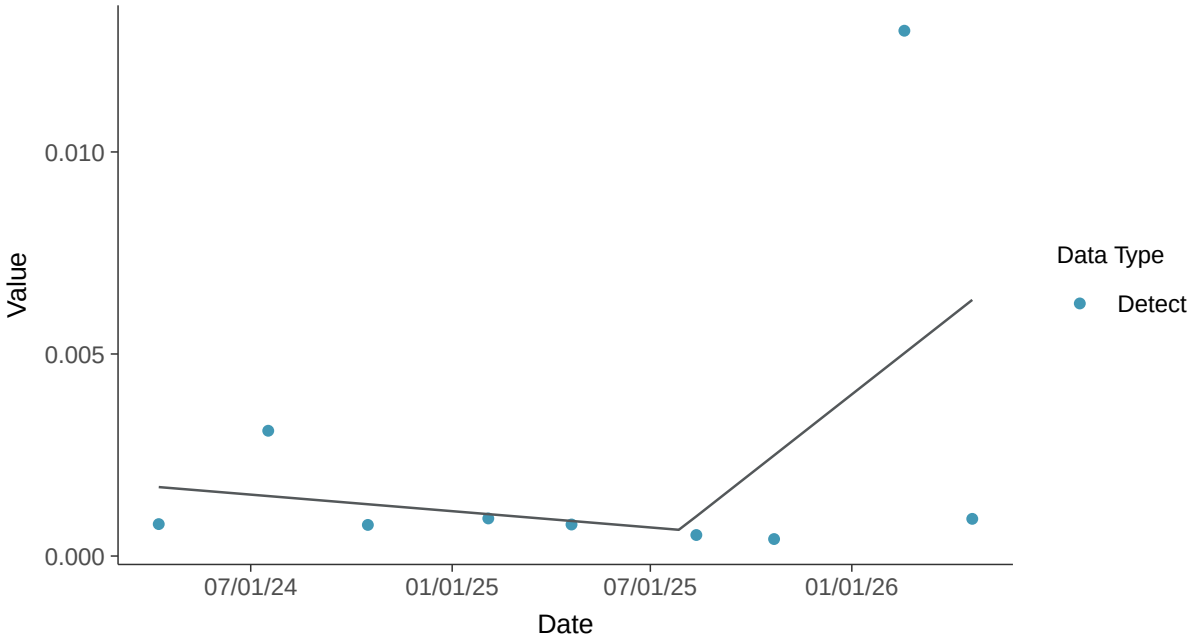
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Molybdenum, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-17 (mg/L)

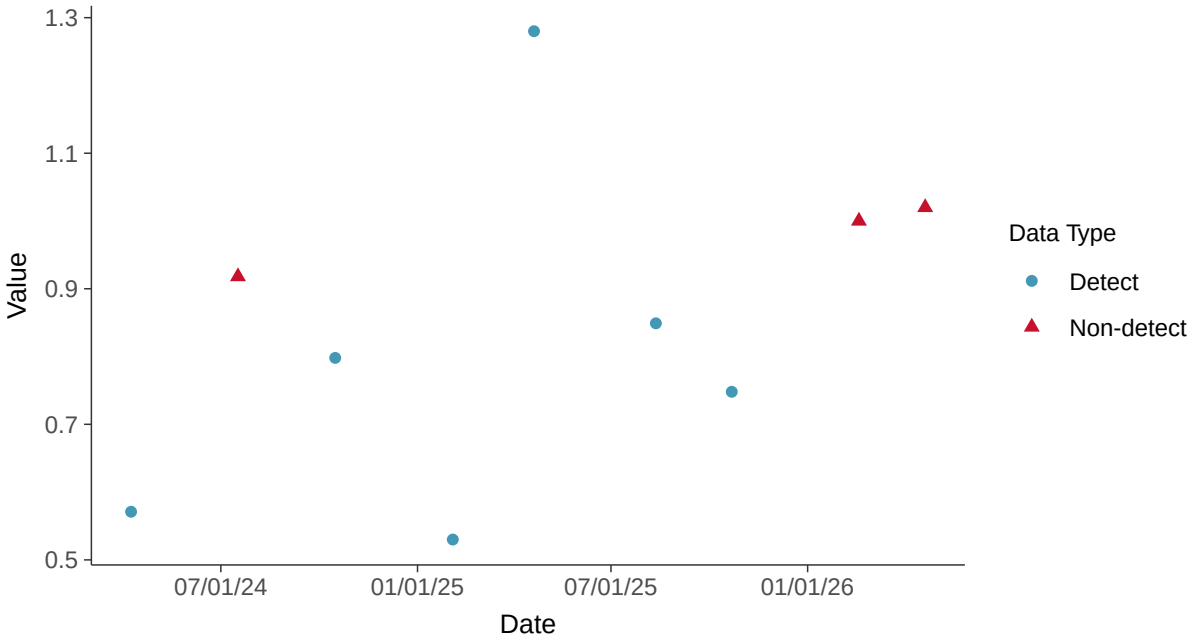


Appendix IV: Radium 226 and 228, MW-17

ID: 27_1_4_121

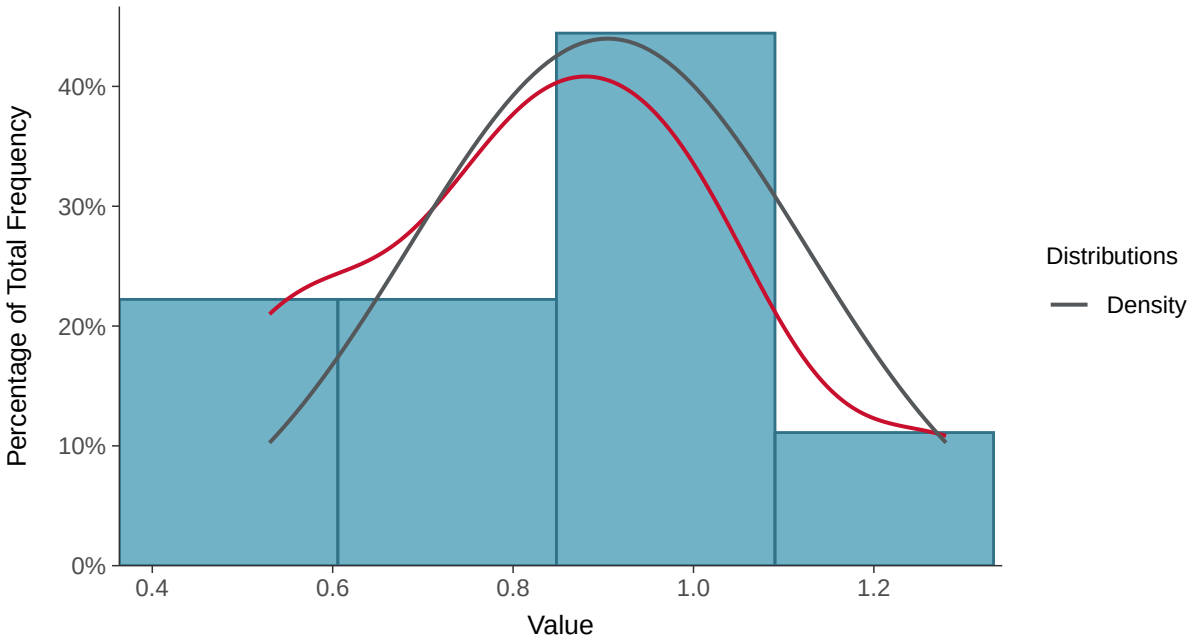
Scatter Plot

Radium 226 and 228, MW-17 (pCi/L)



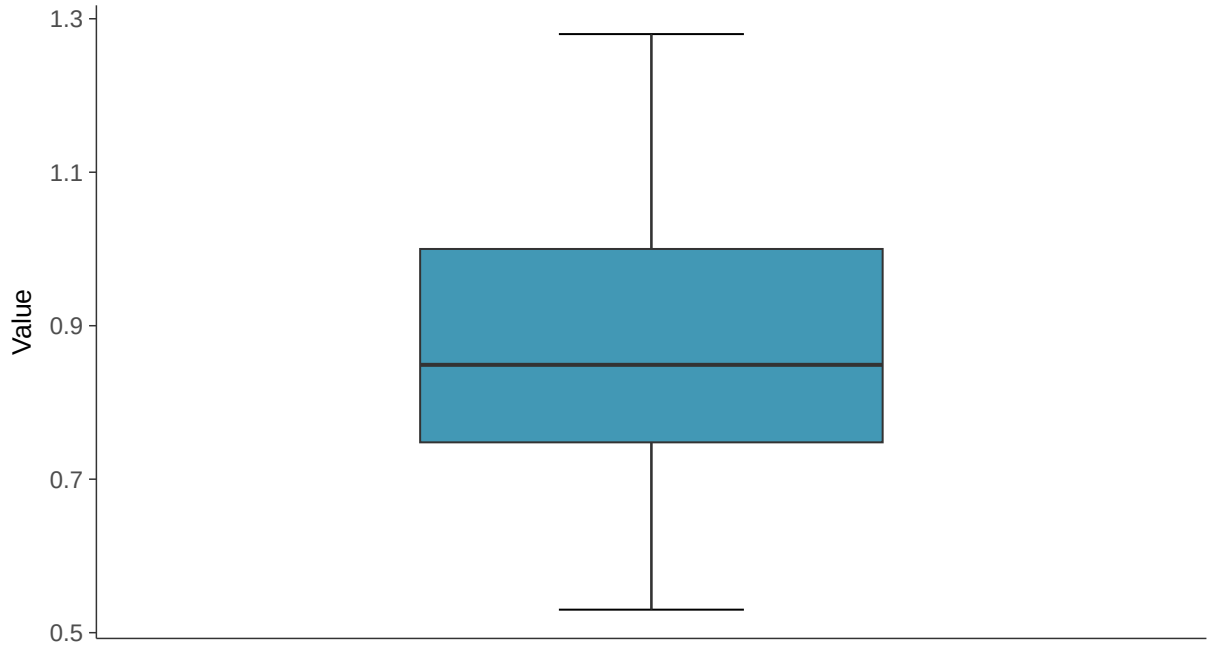
Histogram

Radium 226 and 228, MW-17 (pCi/L)



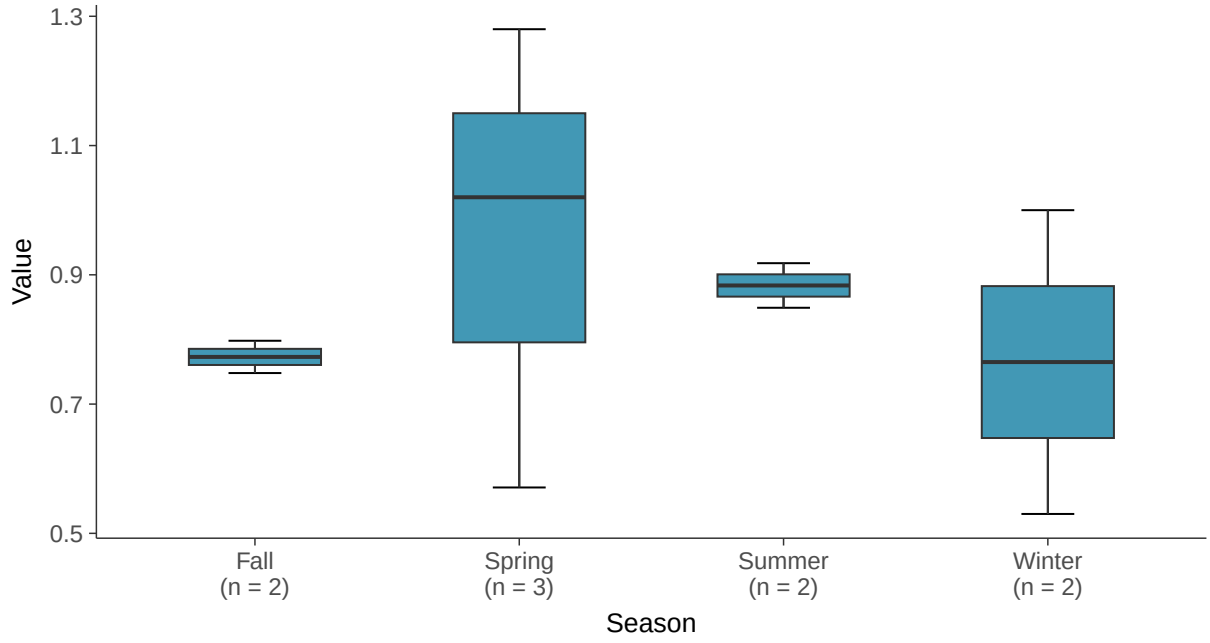
Boxplot

Radium 226 and 228, MW-17 (pCi/L)



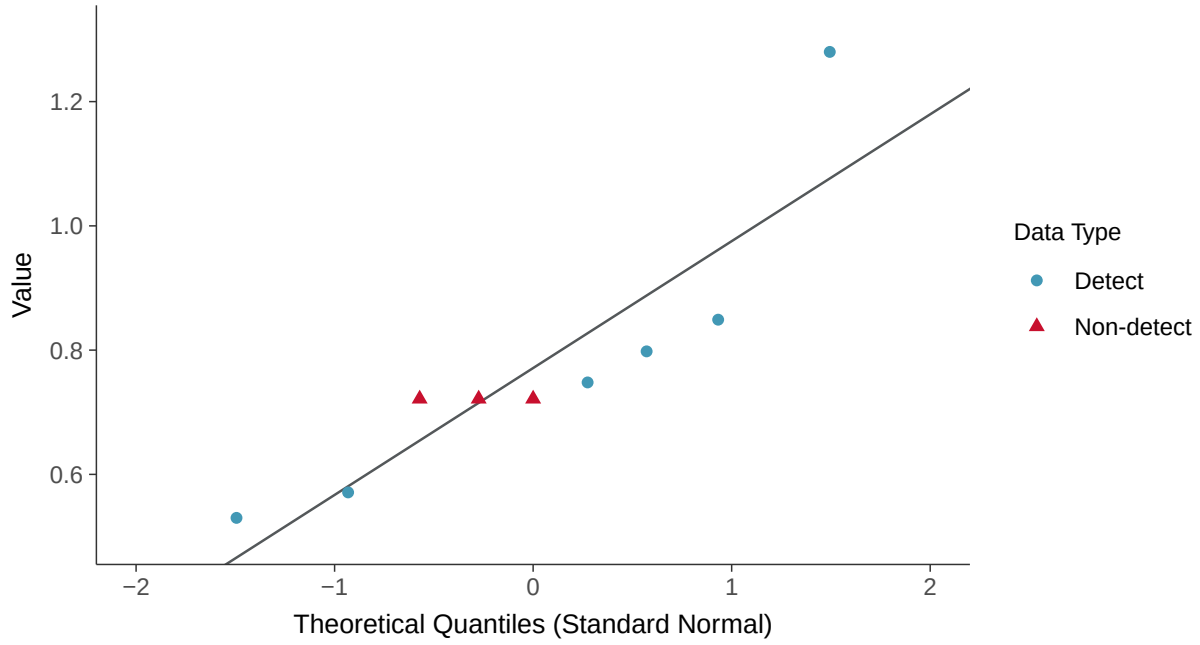
Boxplot by Season

Radium 226 and 228, MW-17 (pCi/L)



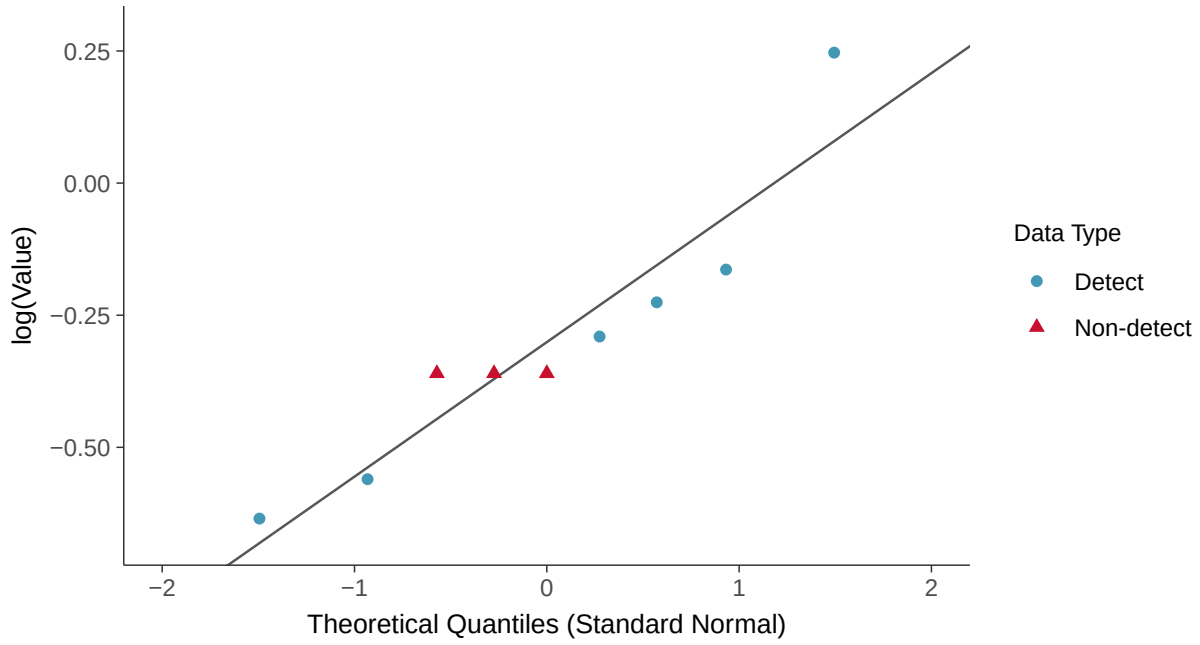
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-17 (pCi/L)



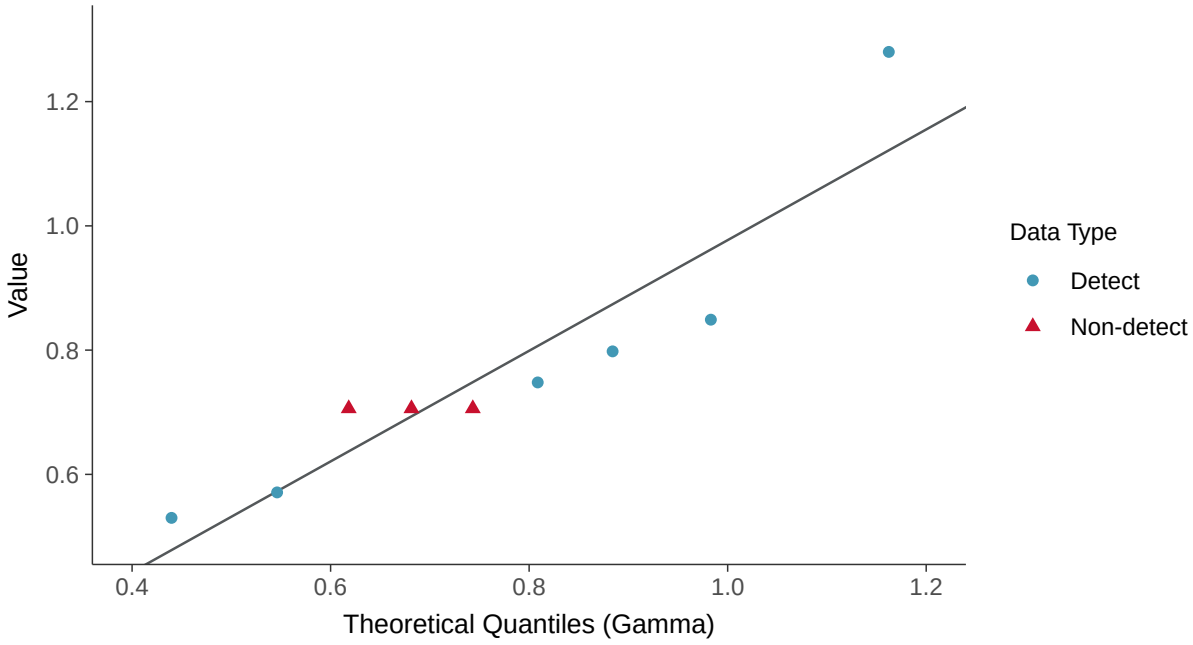
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-17 (pCi/L)



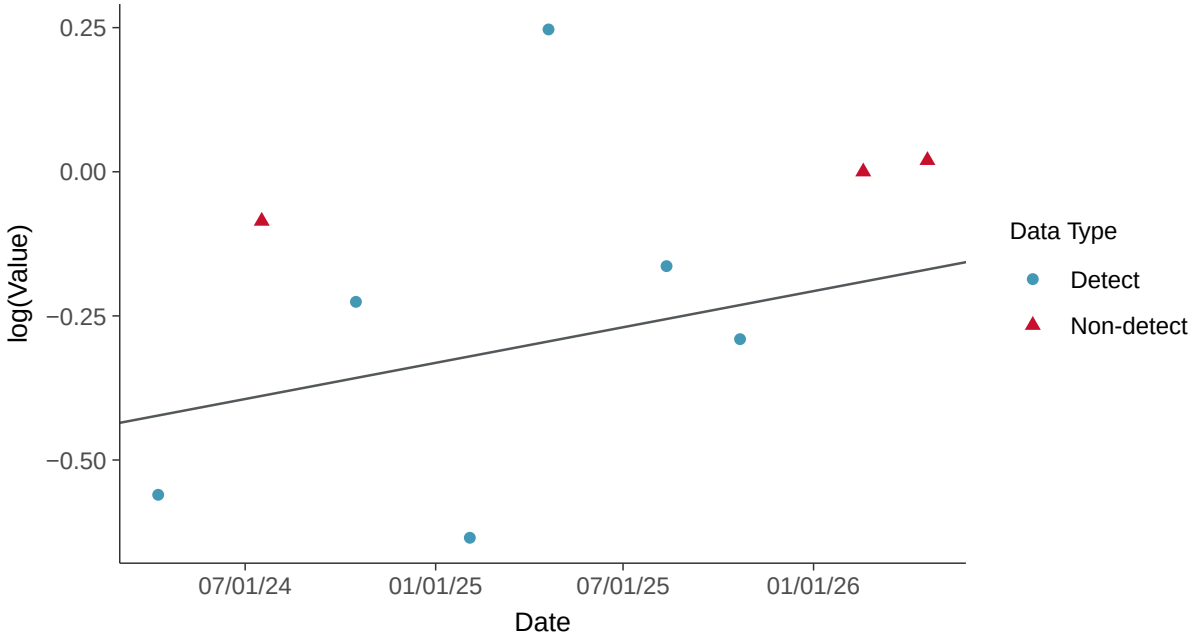
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-17 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-17 (pCi/L)

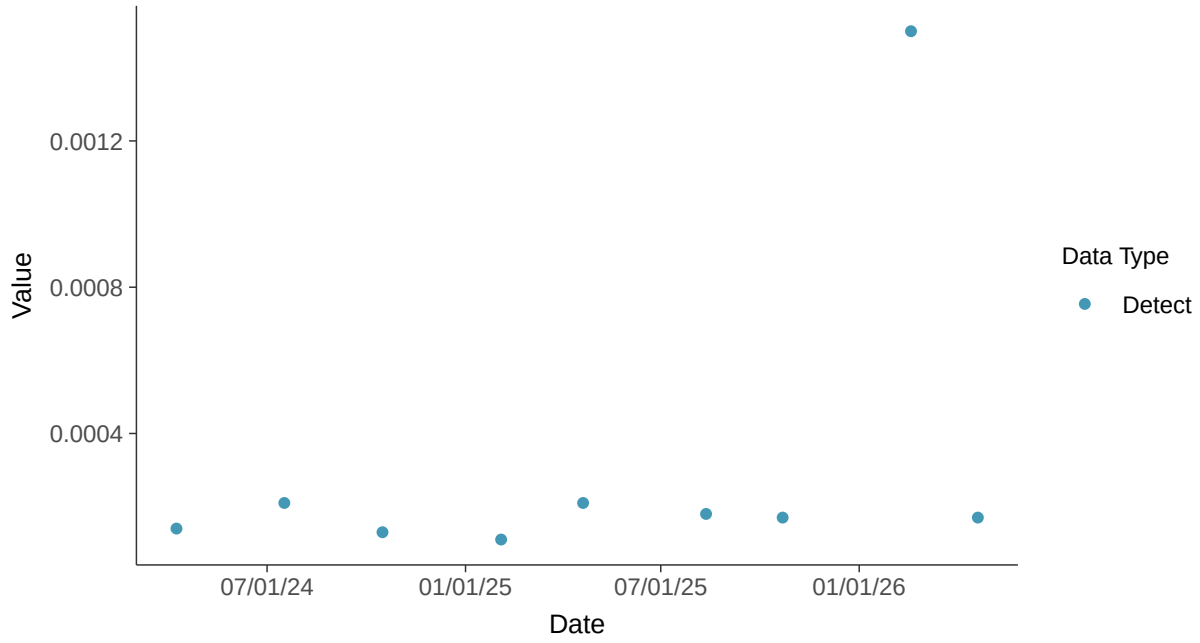


Appendix IV: Selenium, MW-17

ID: 27_1_4_122

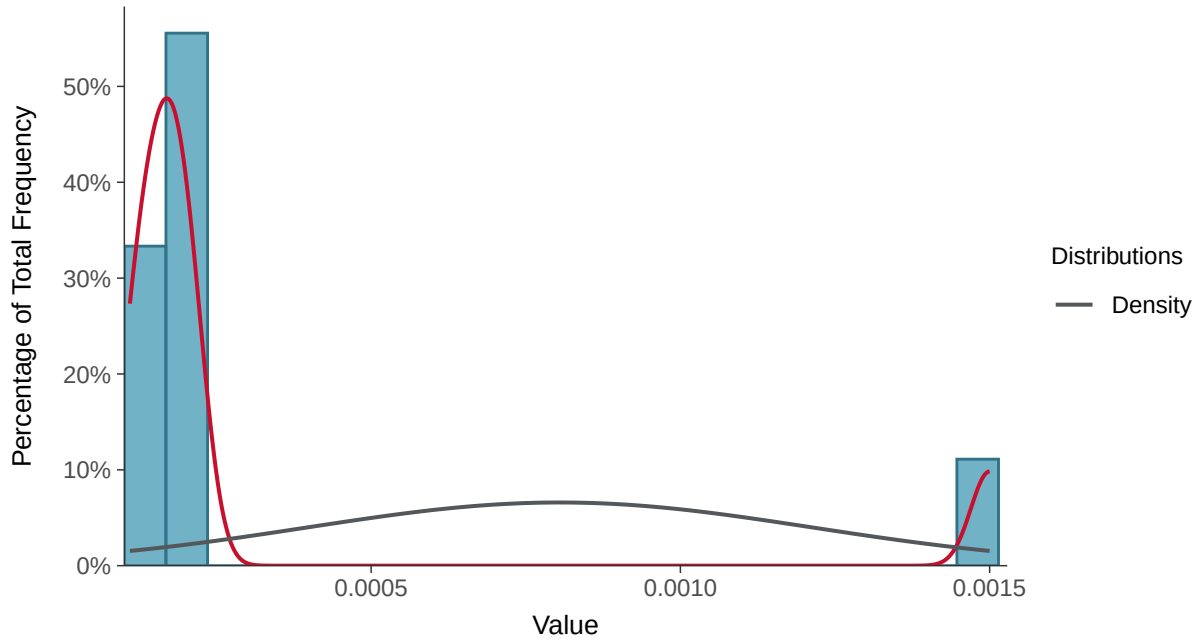
Scatter Plot

Selenium, MW-17 (mg/L)



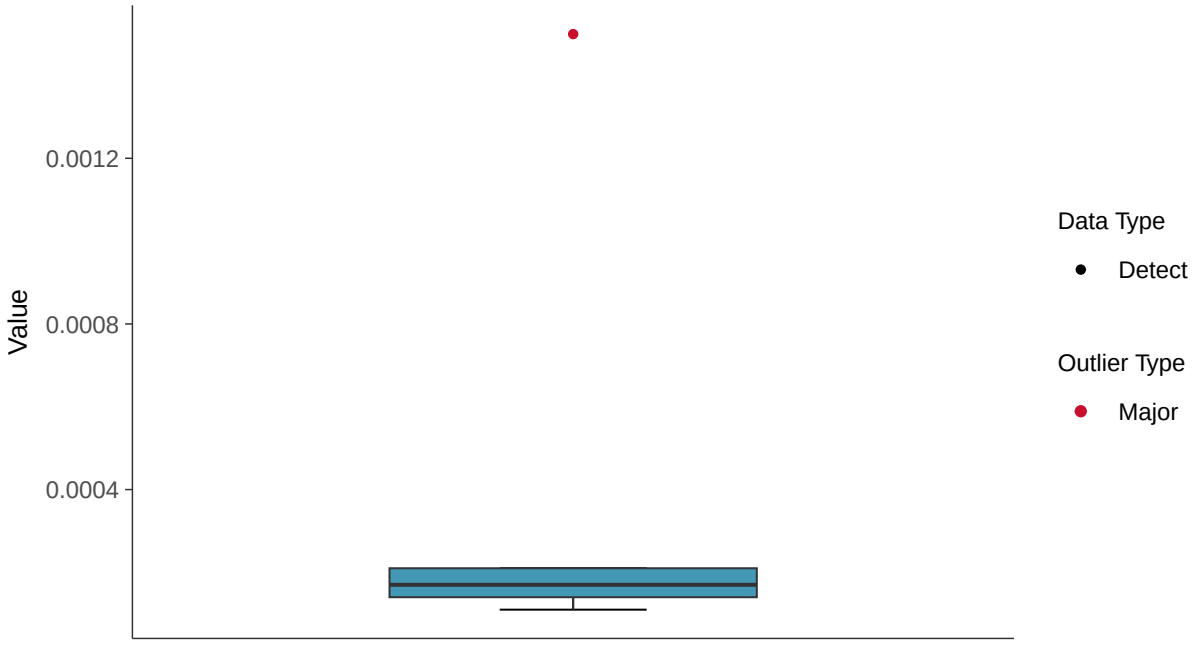
Histogram

Selenium, MW-17 (mg/L)



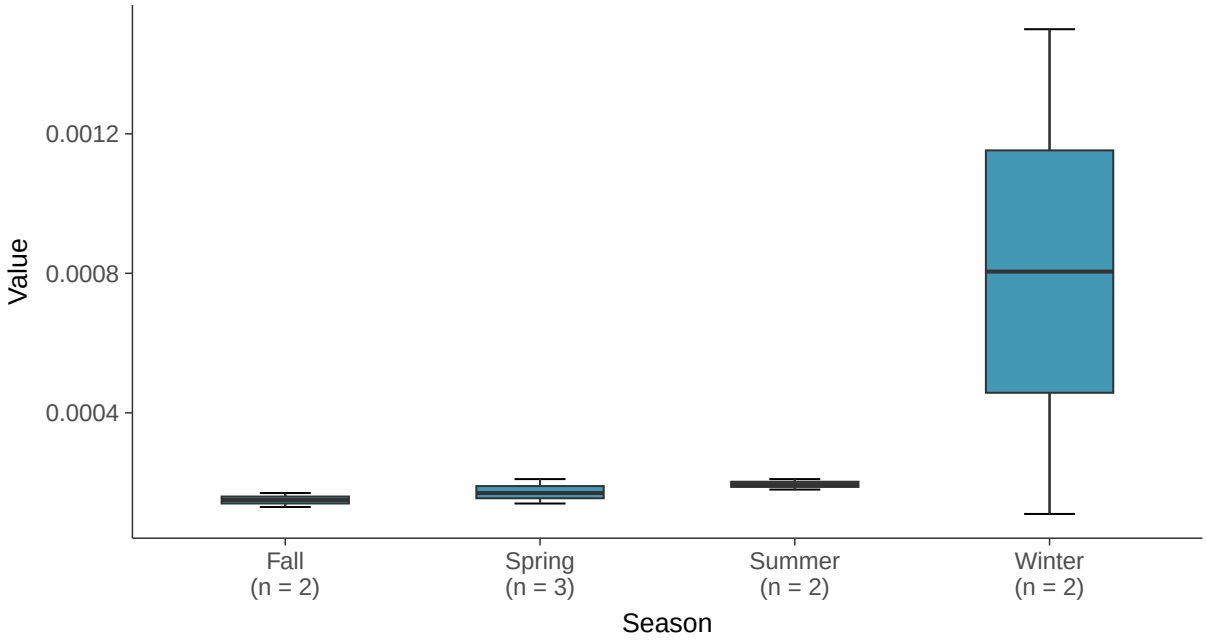
Boxplot

Selenium, MW-17 (mg/L)



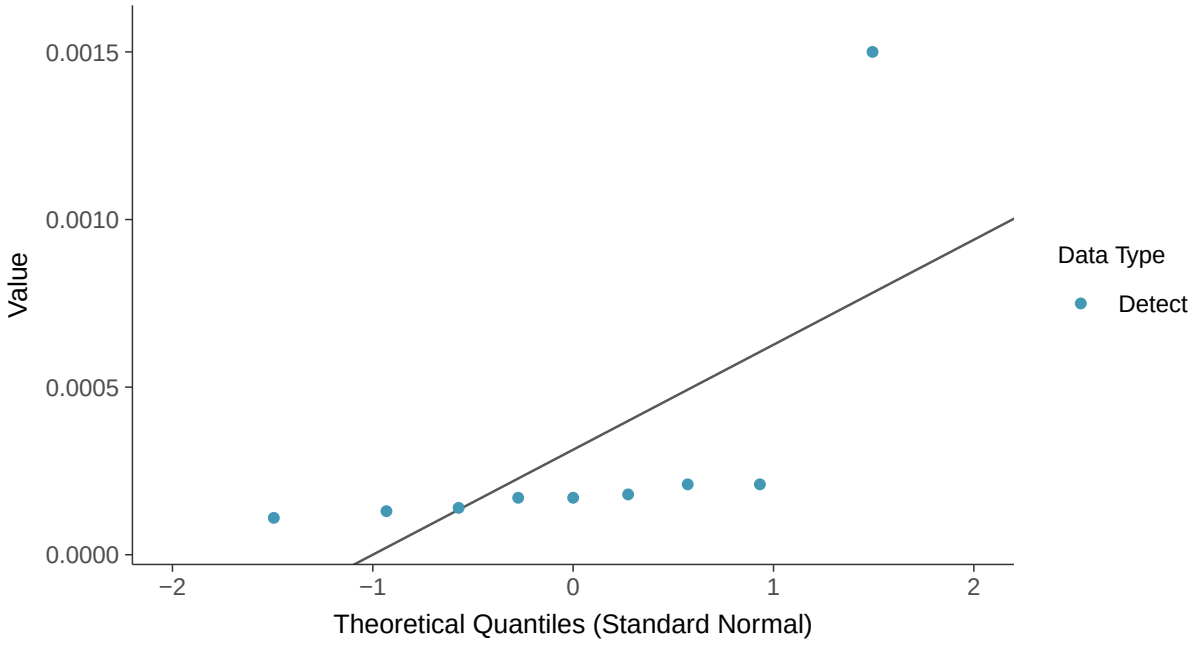
Boxplot by Season

Selenium, MW-17 (mg/L)



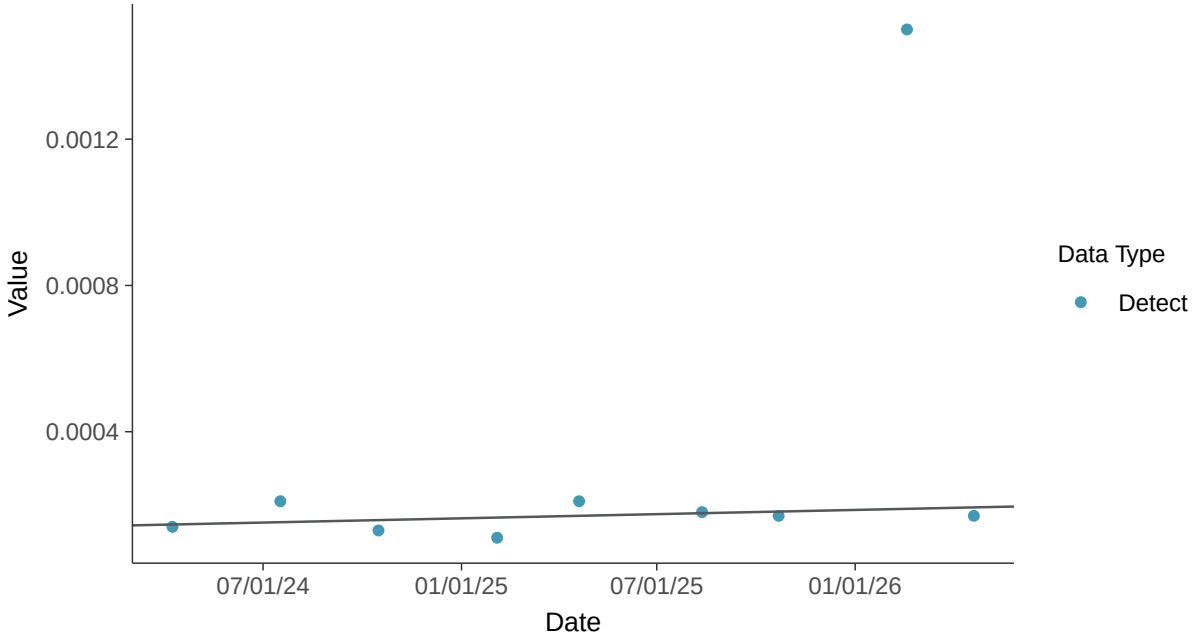
Normal Q-Q plot

Selenium, MW-17 (mg/L)



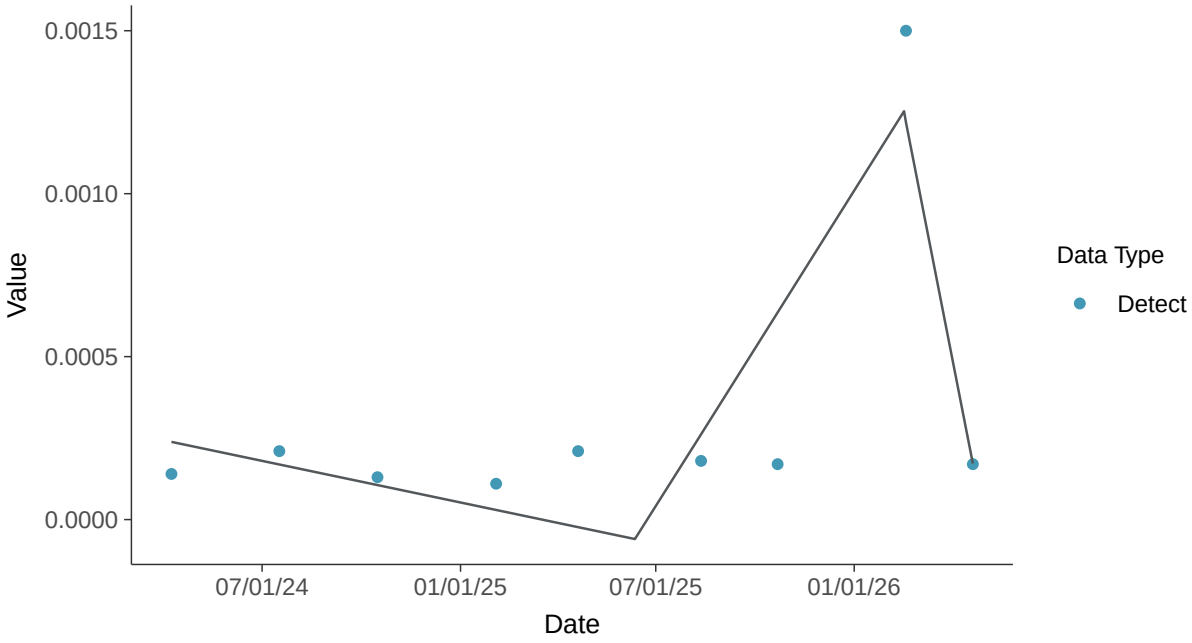
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-17 (mg/L)



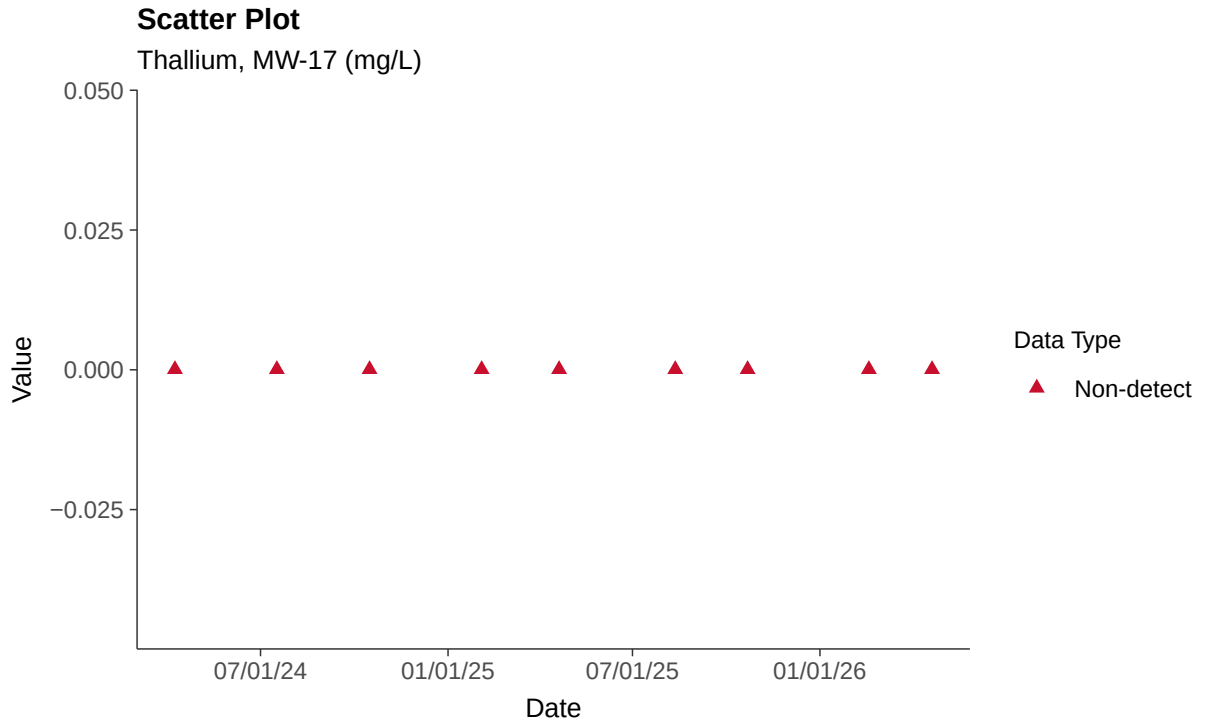
Trend Regression: Piecewise Linear-Linear-Linear

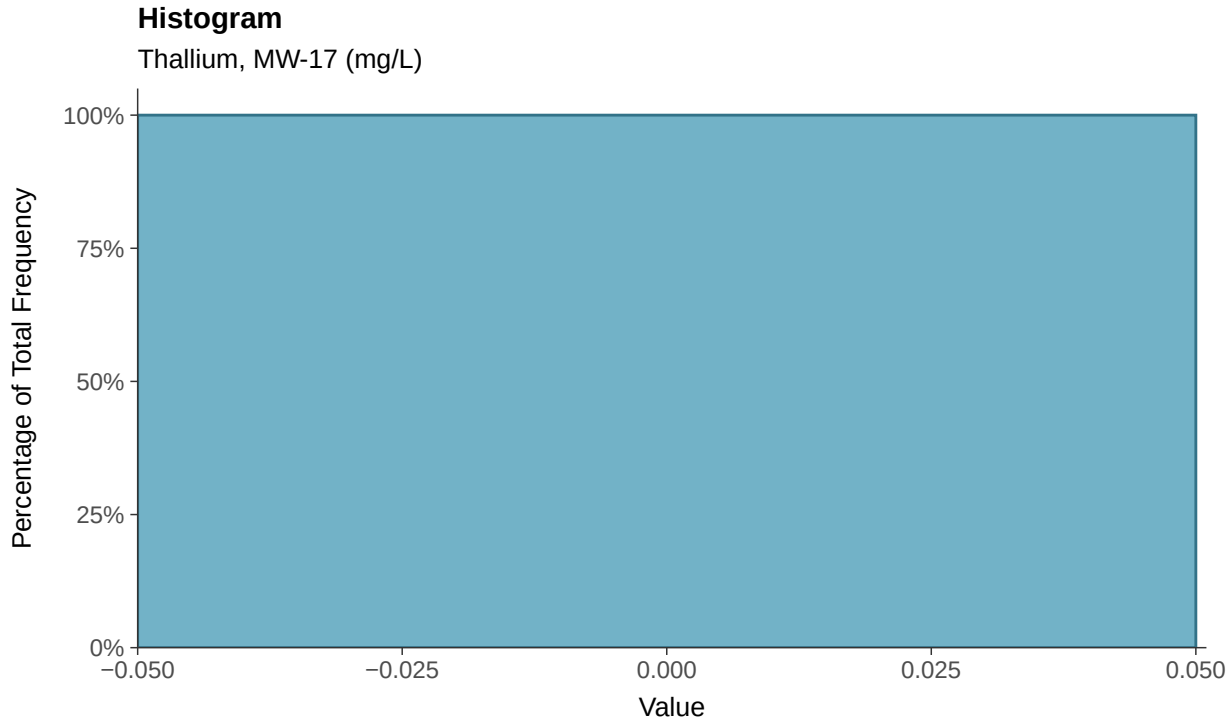
Selenium, MW-17 (mg/L)



Appendix IV: Thallium, MW-17

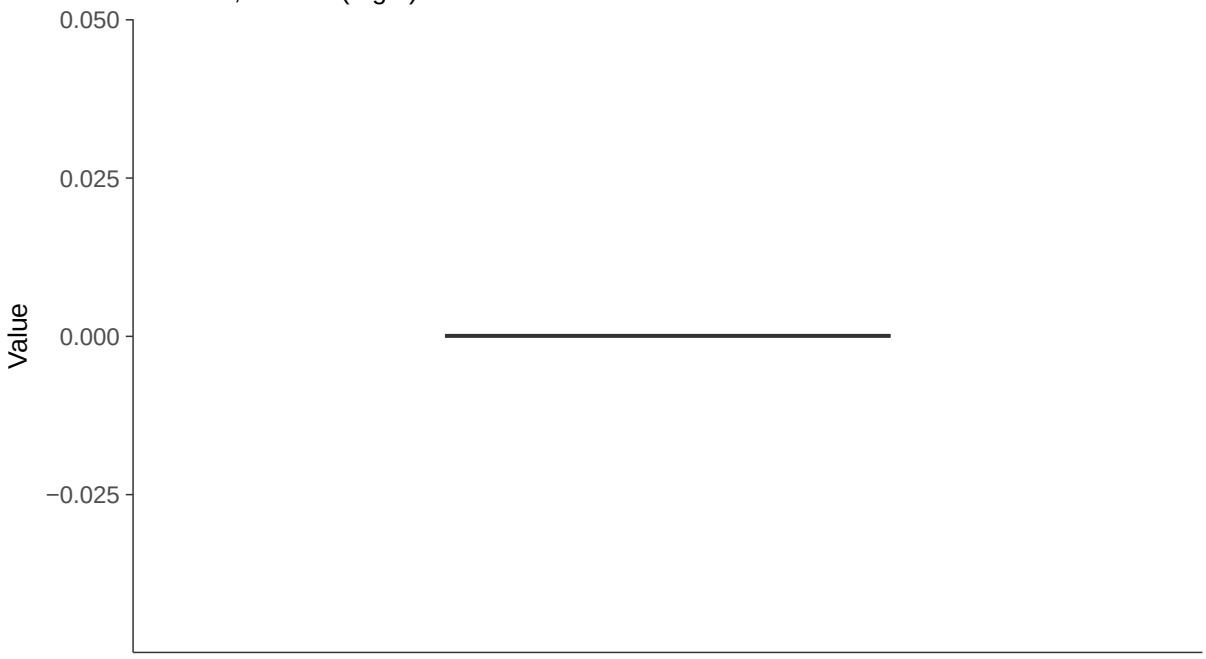
ID: 27_1_4_125





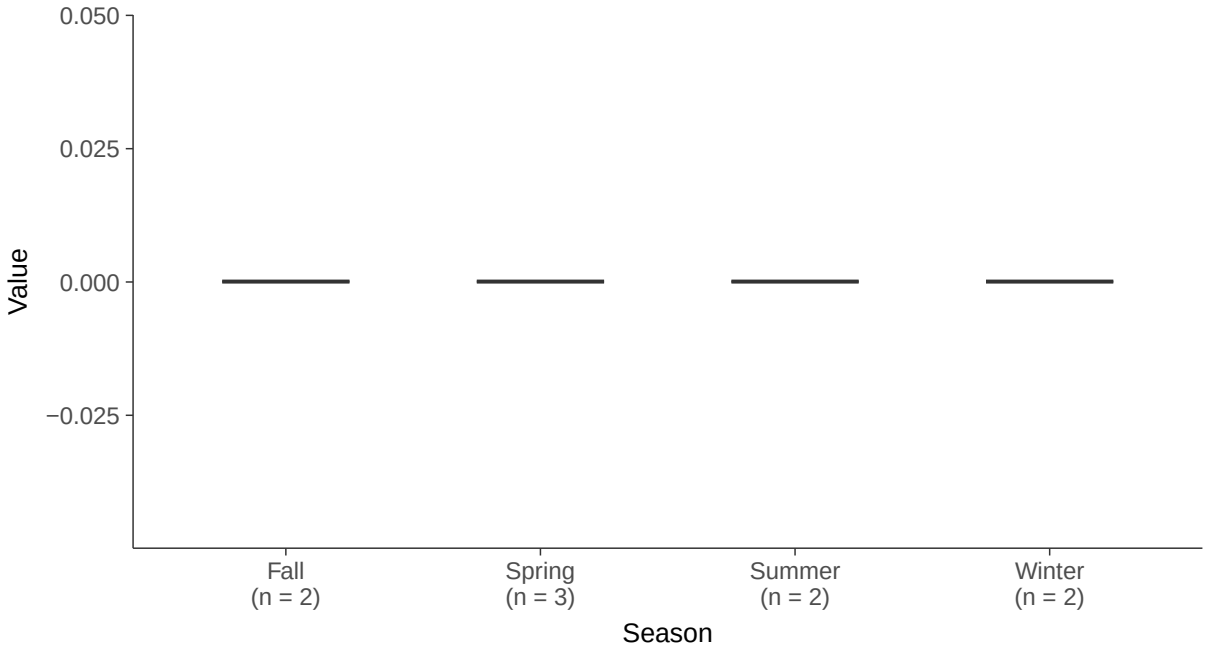
Boxplot

Thallium, MW-17 (mg/L)



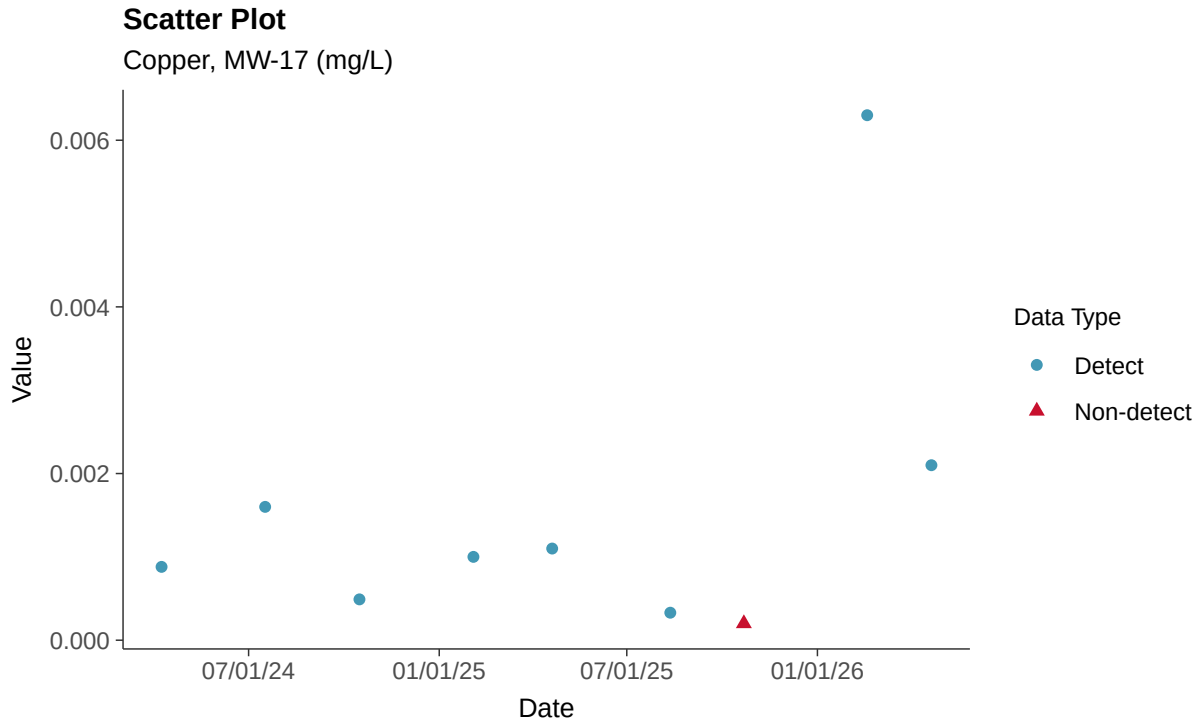
Boxplot by Season

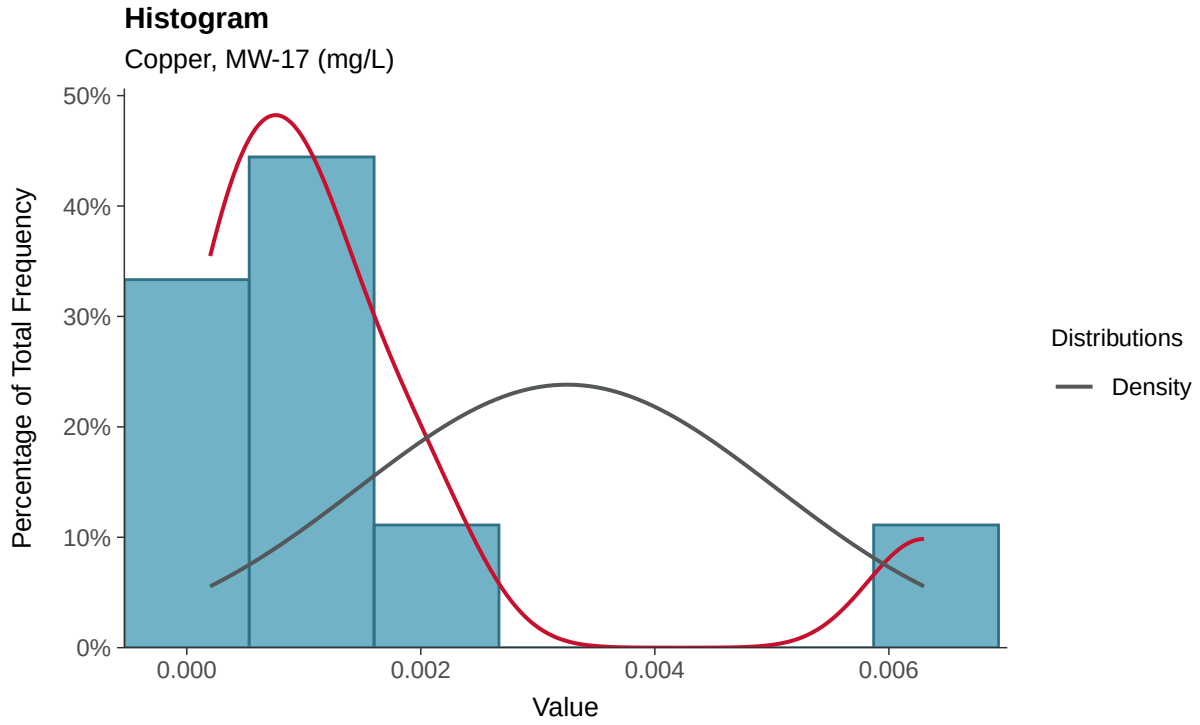
Thallium, MW-17 (mg/L)



Part 115: Copper, MW-17

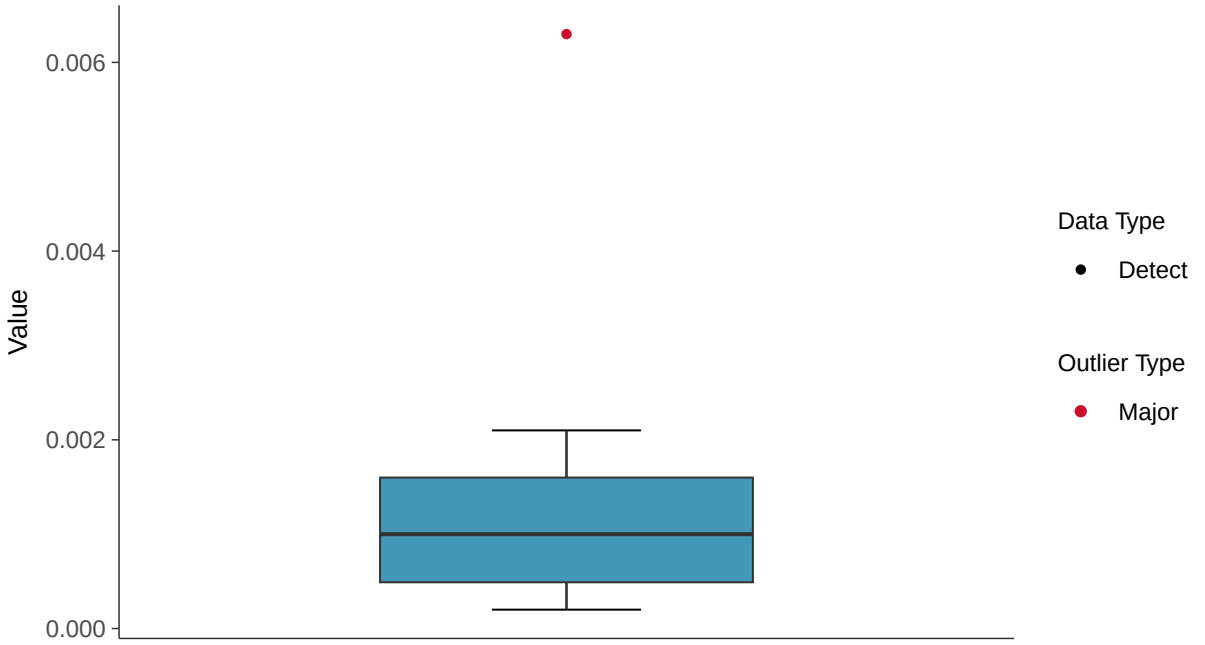
ID: 27_1_5_111





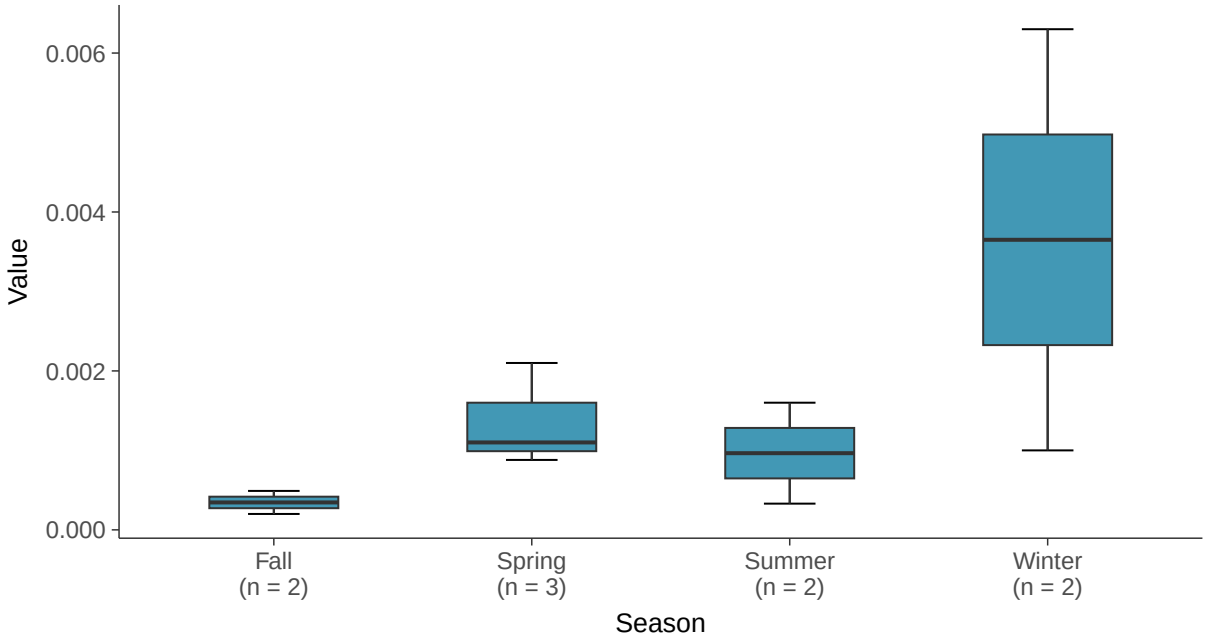
Boxplot

Copper, MW-17 (mg/L)



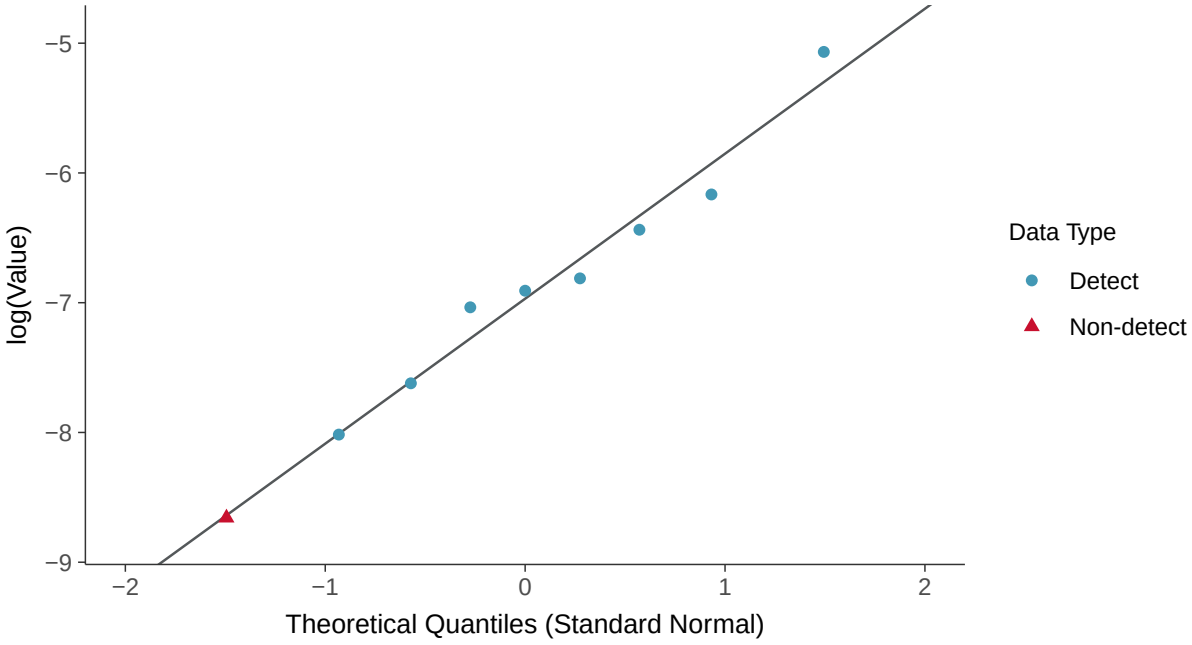
Boxplot by Season

Copper, MW-17 (mg/L)



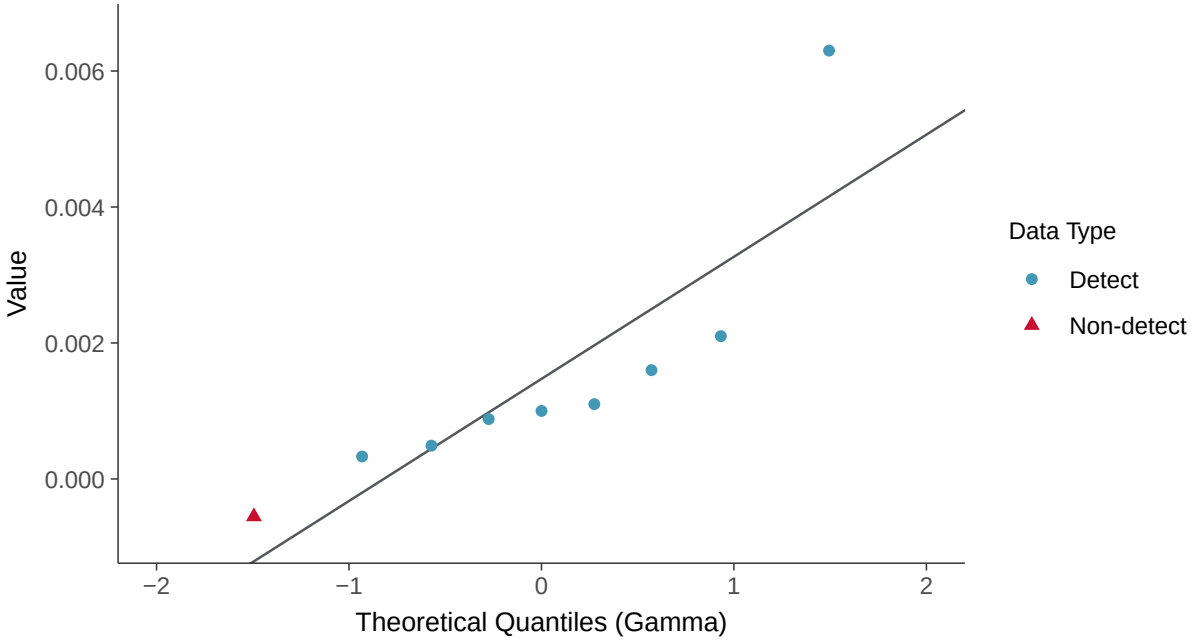
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-17 (mg/L)



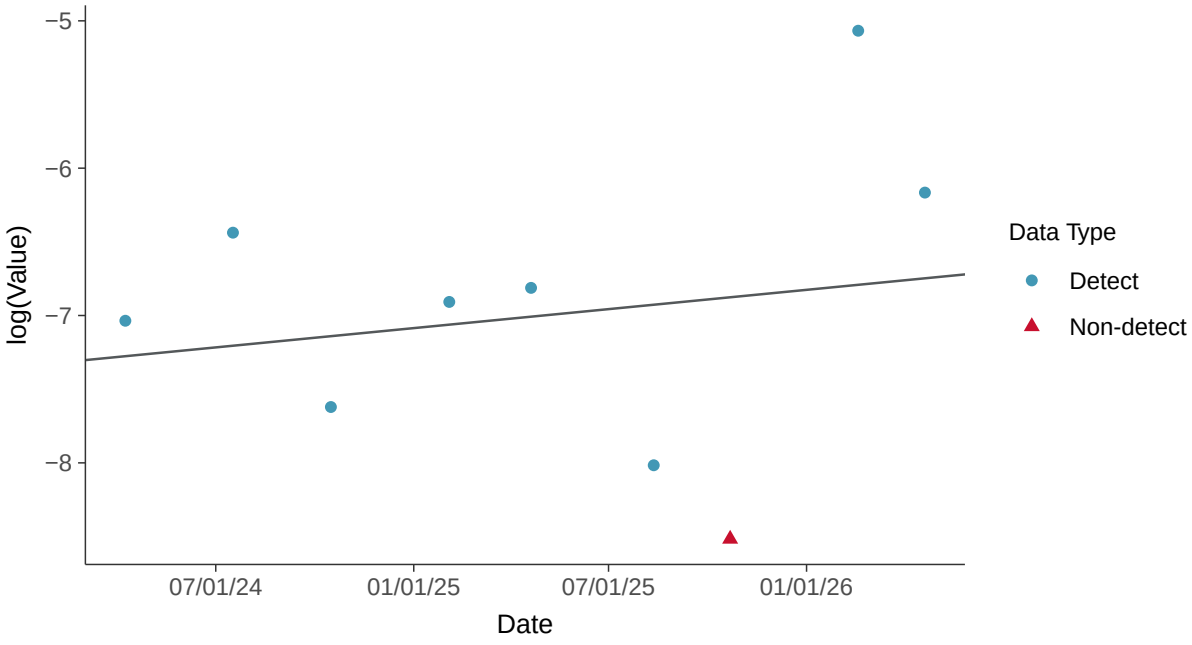
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-17 (mg/L)



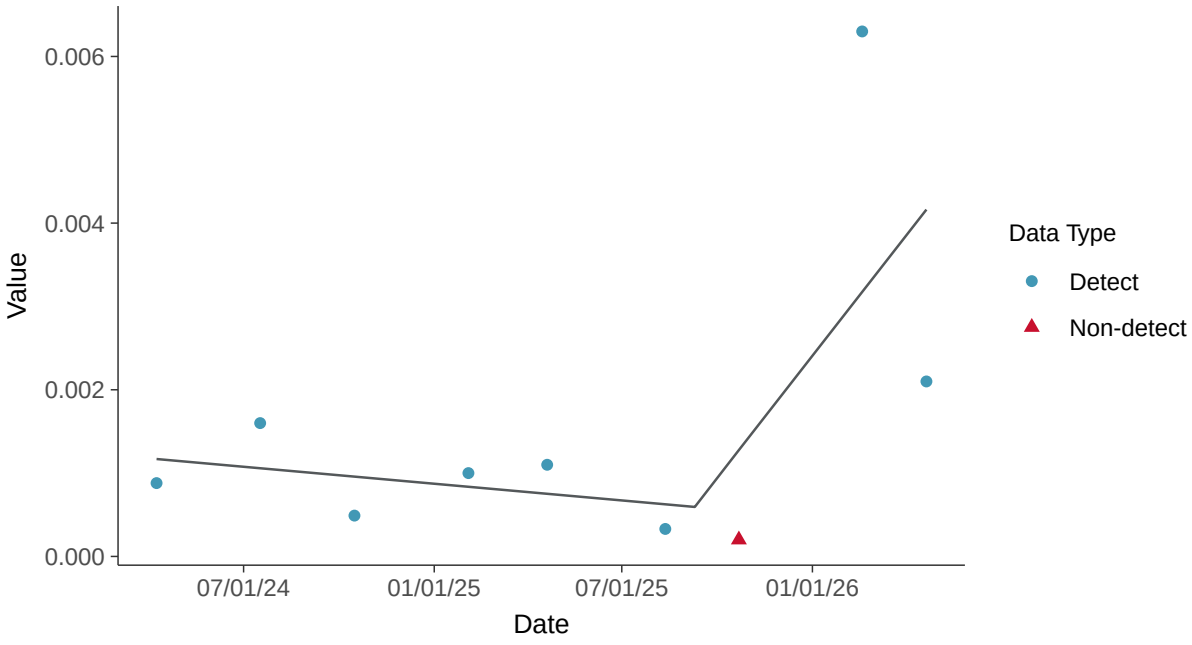
Trend Regression: Lognormal MLE

Copper, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-17 (mg/L)

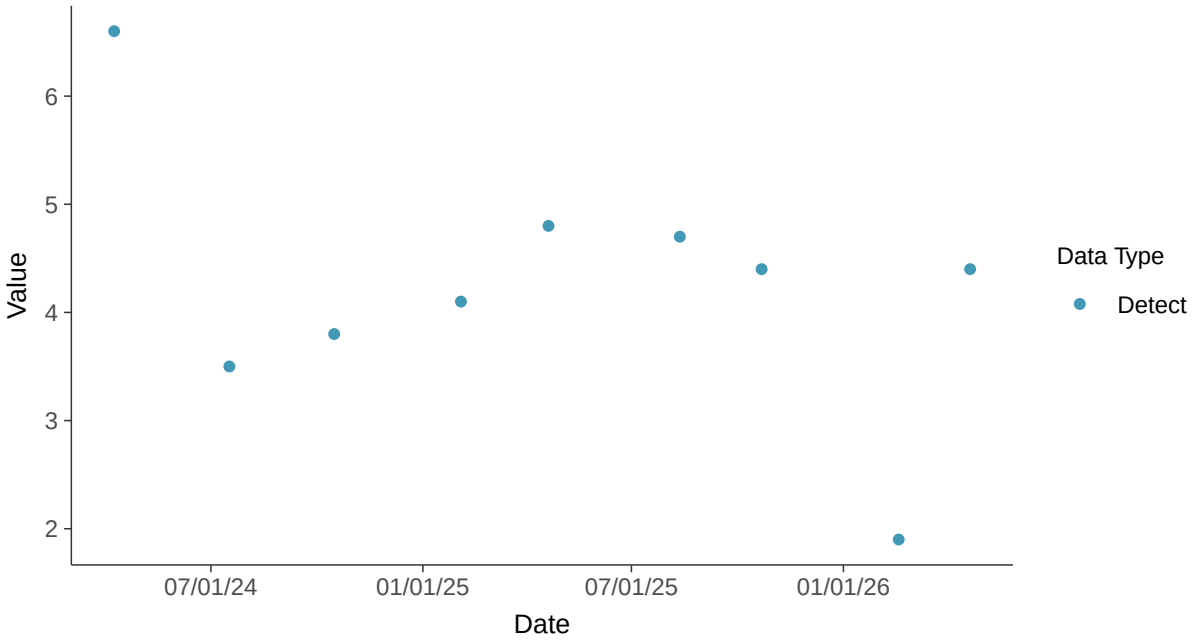


Part 115: Iron, MW-17

ID: 27_1_5_114

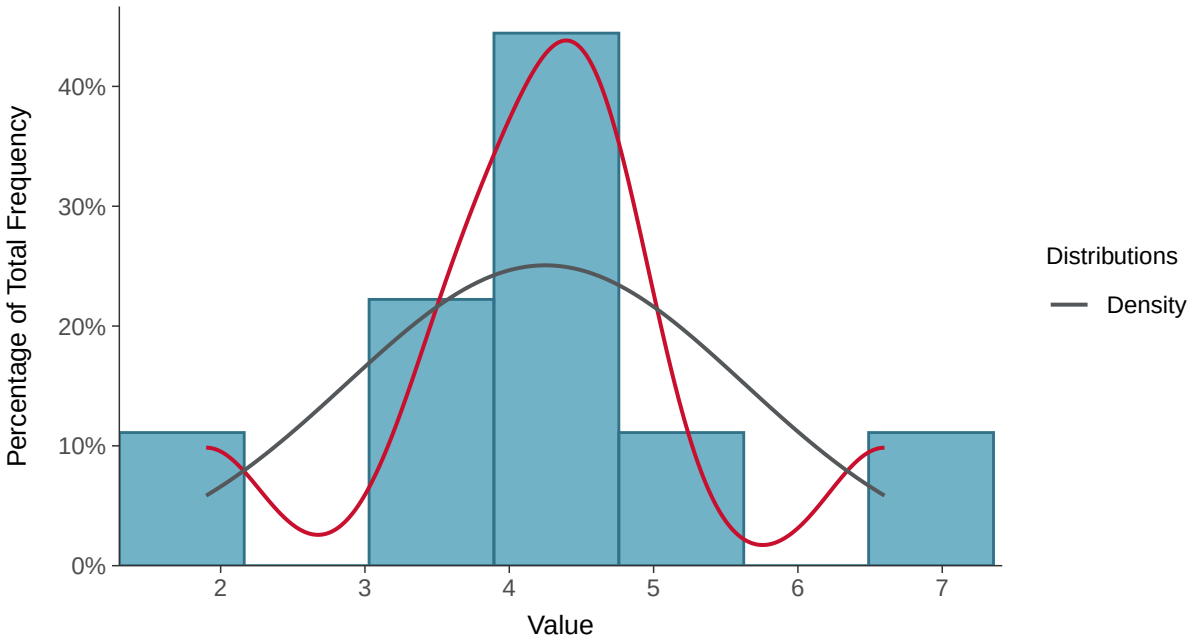
Scatter Plot

Iron, MW-17 (mg/L)



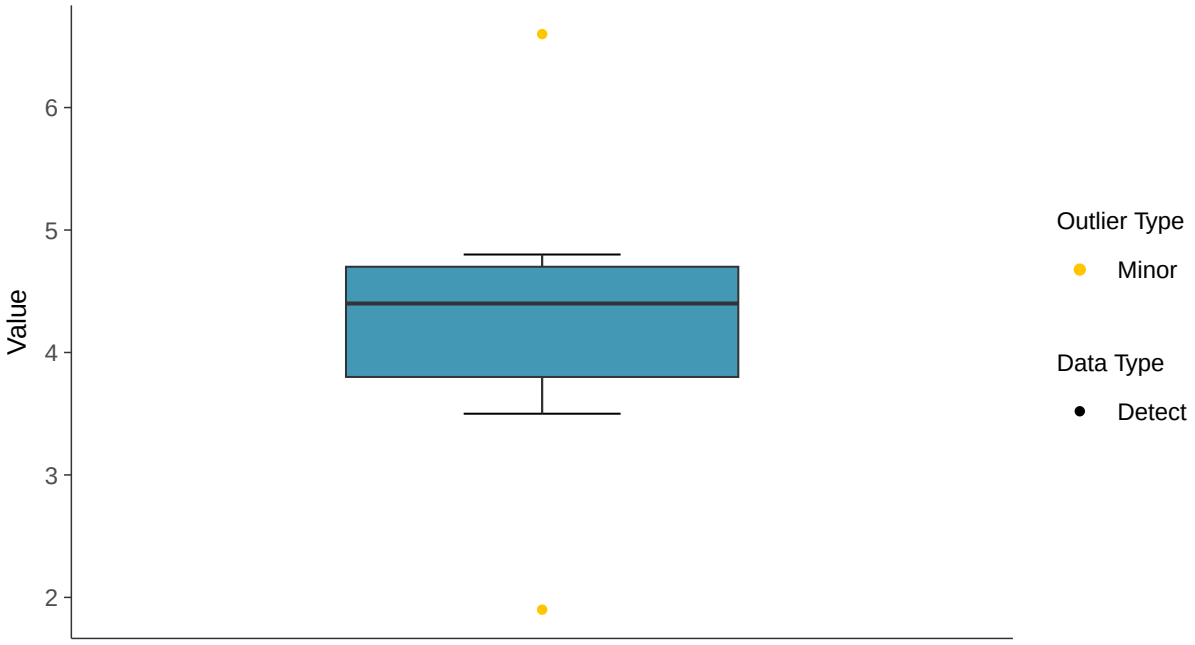
Histogram

Iron, MW-17 (mg/L)



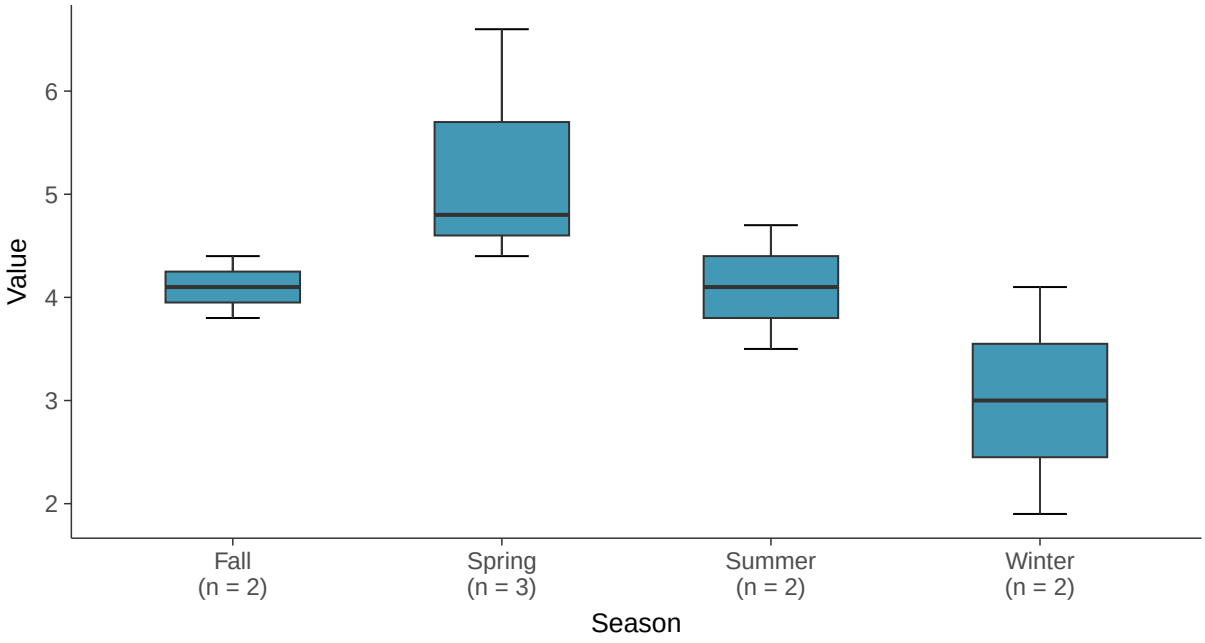
Boxplot

Iron, MW-17 (mg/L)



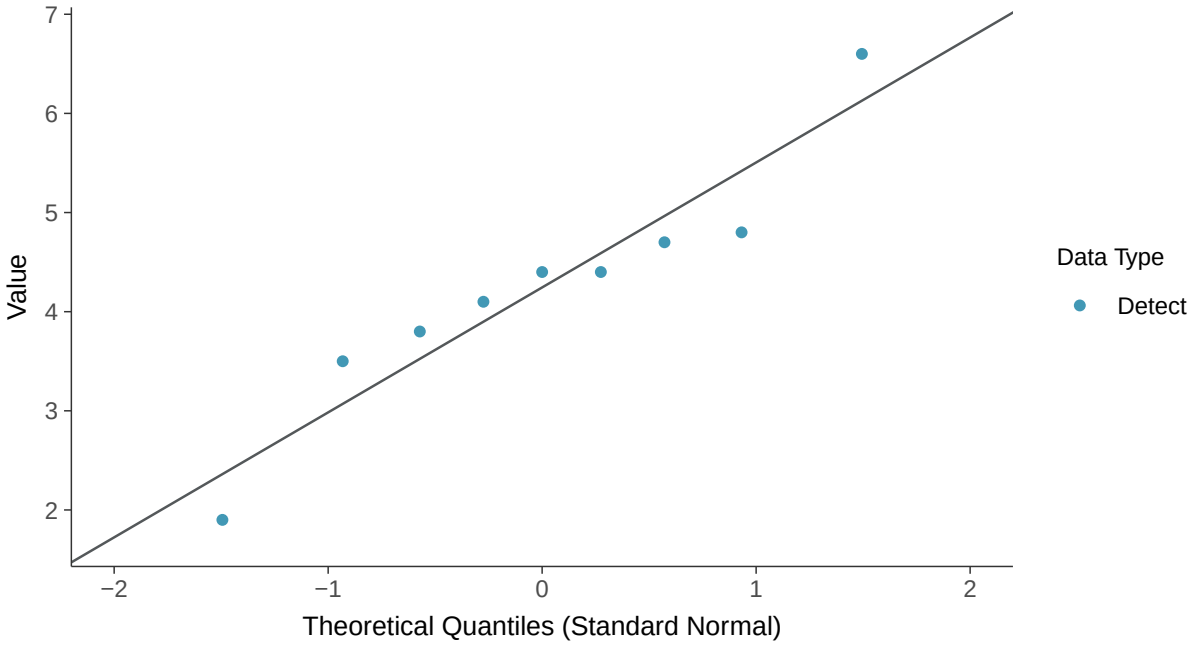
Boxplot by Season

Iron, MW-17 (mg/L)



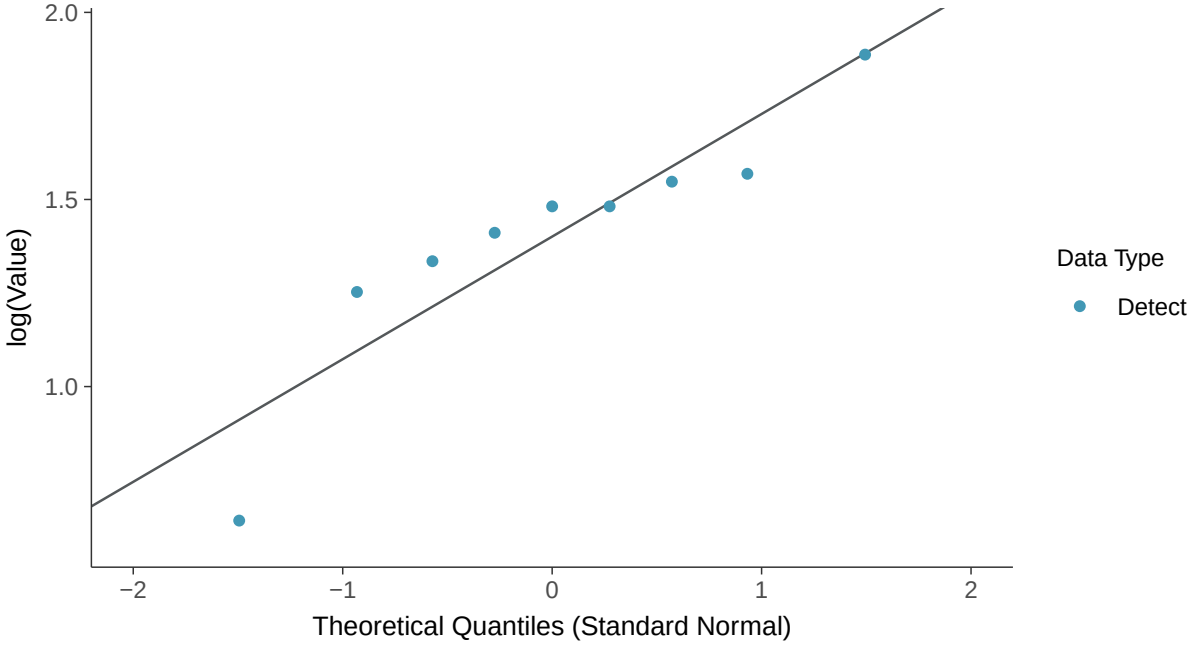
Normal Q-Q plot

Iron, MW-17 (mg/L)



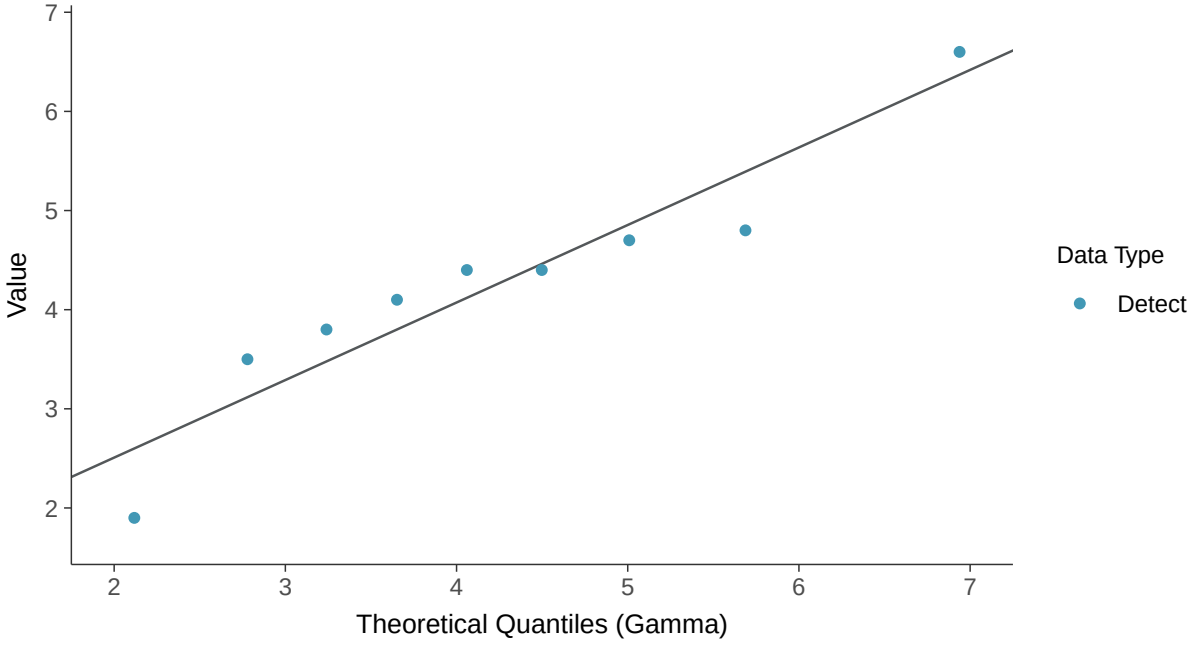
Lognormal Q-Q plot

Iron, MW-17 (mg/L)



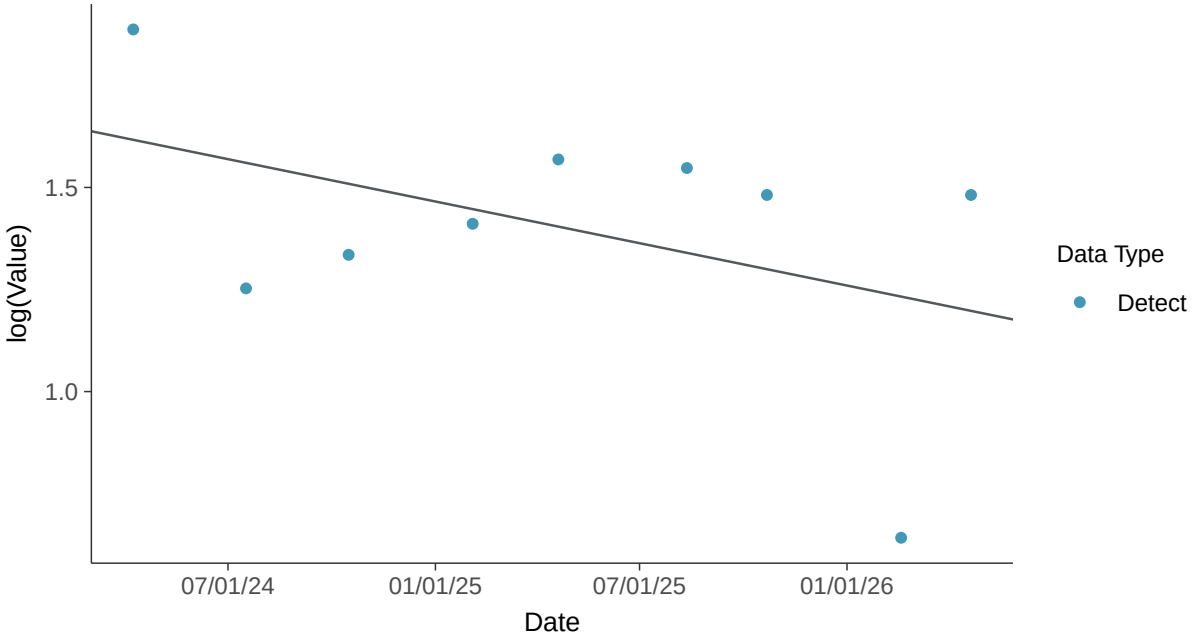
Gamma Q-Q plot

Iron, MW-17 (mg/L)



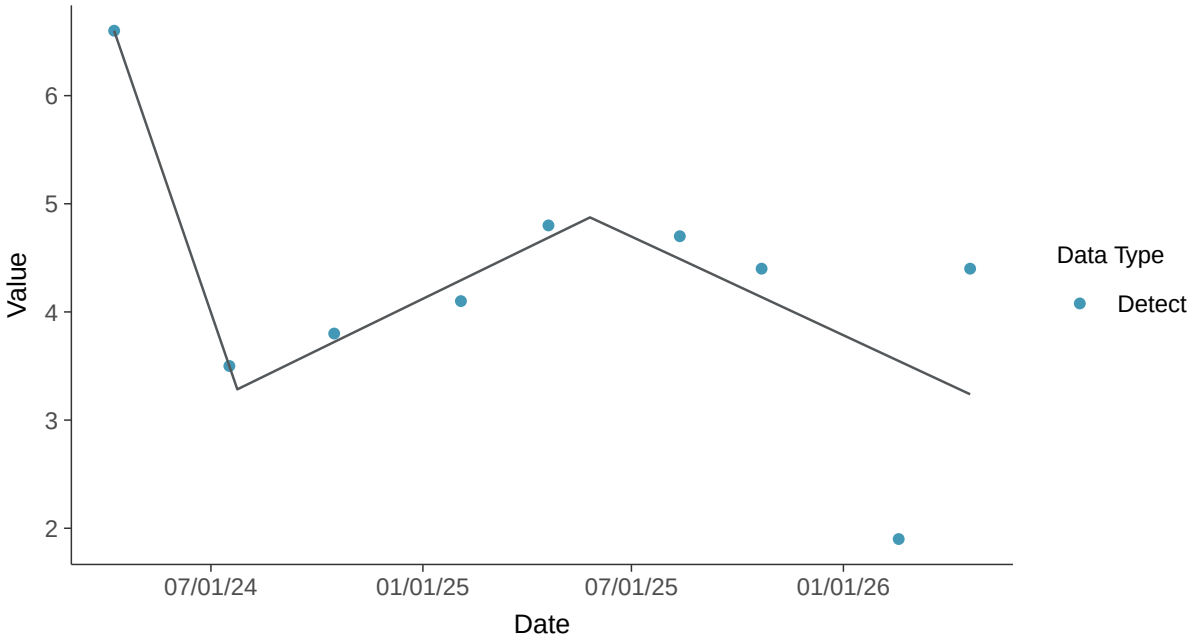
Trend Regression: Lognormal MLE

Iron, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-17 (mg/L)

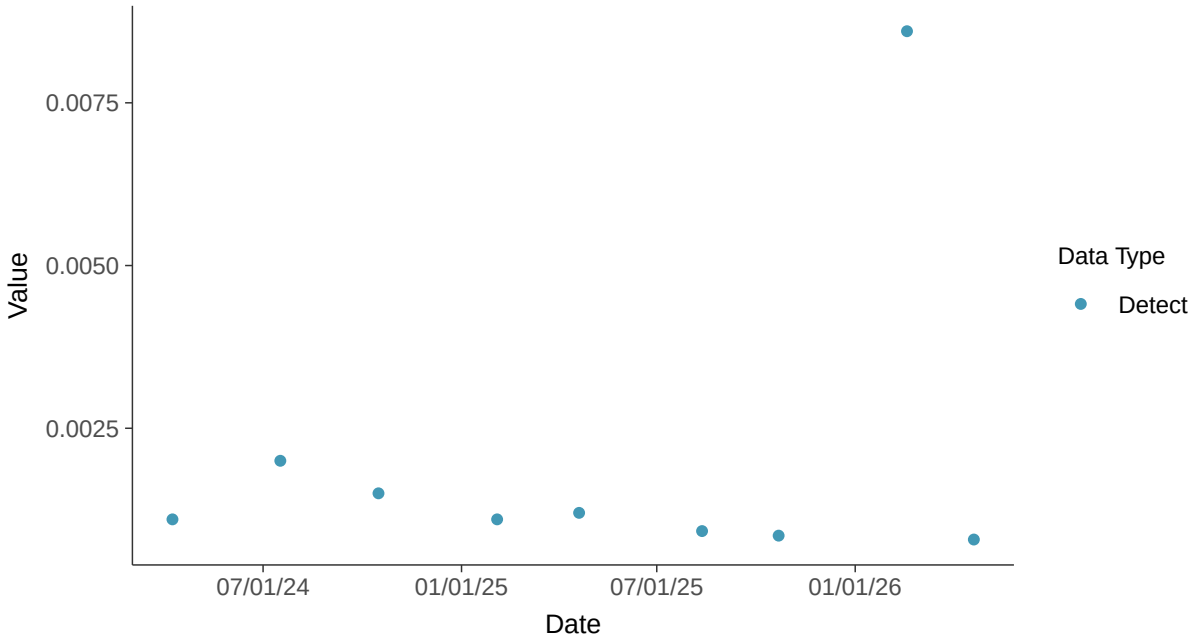


Part 115: Nickel, MW-17

ID: 27_1_5_119

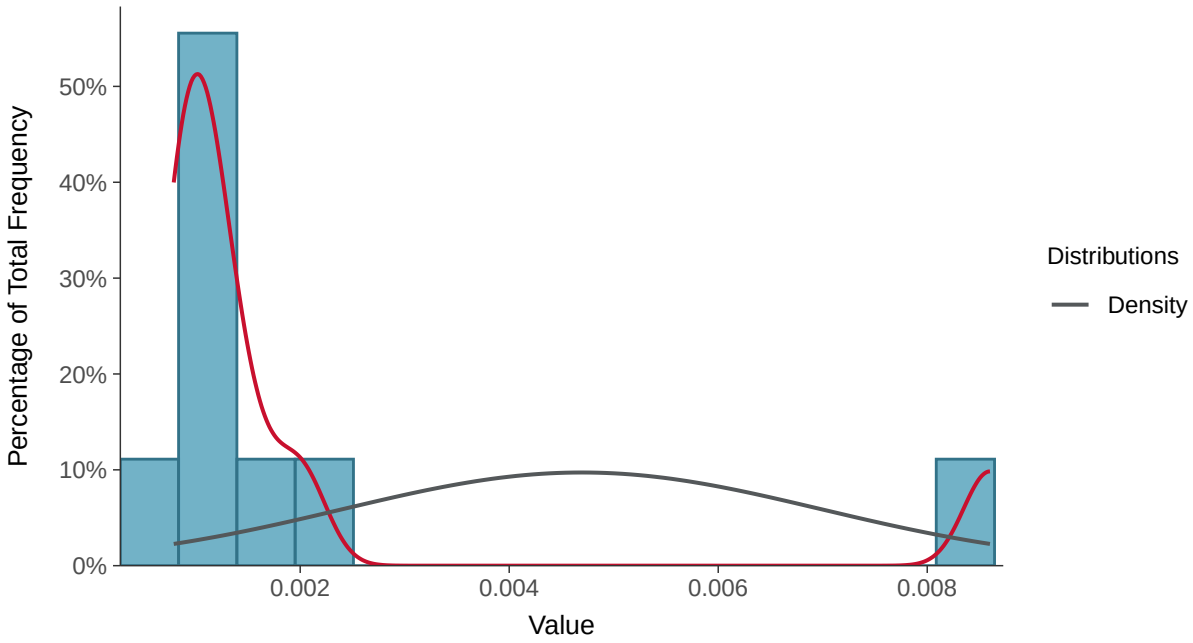
Scatter Plot

Nickel, MW-17 (mg/L)



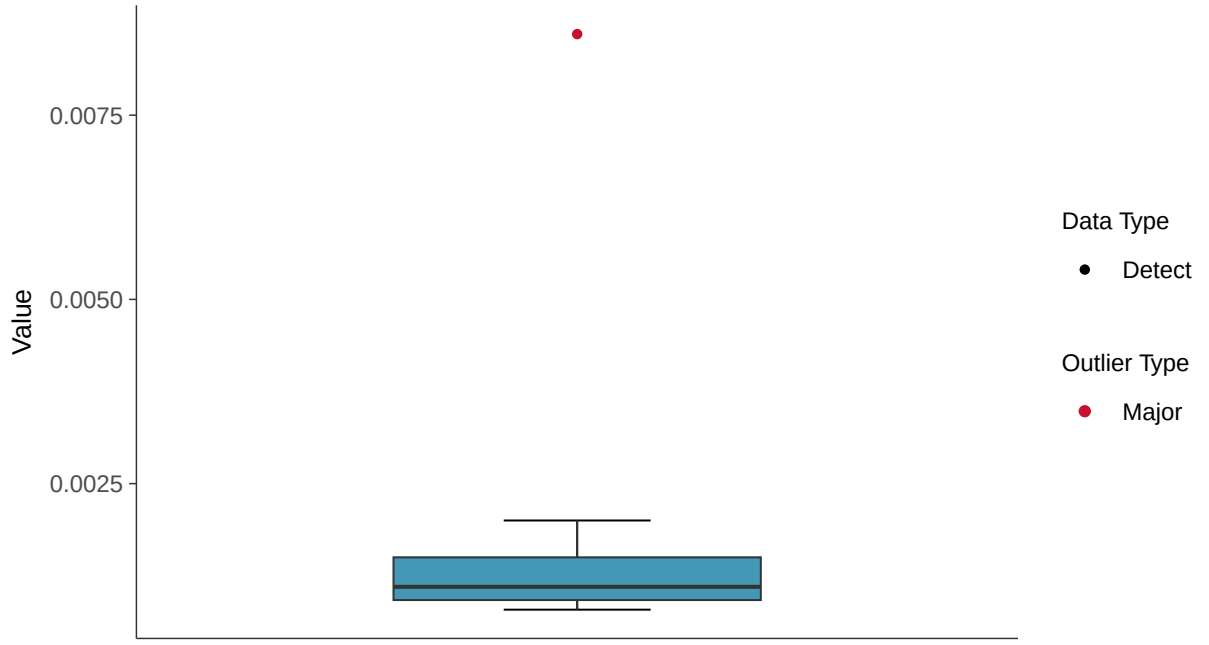
Histogram

Nickel, MW-17 (mg/L)



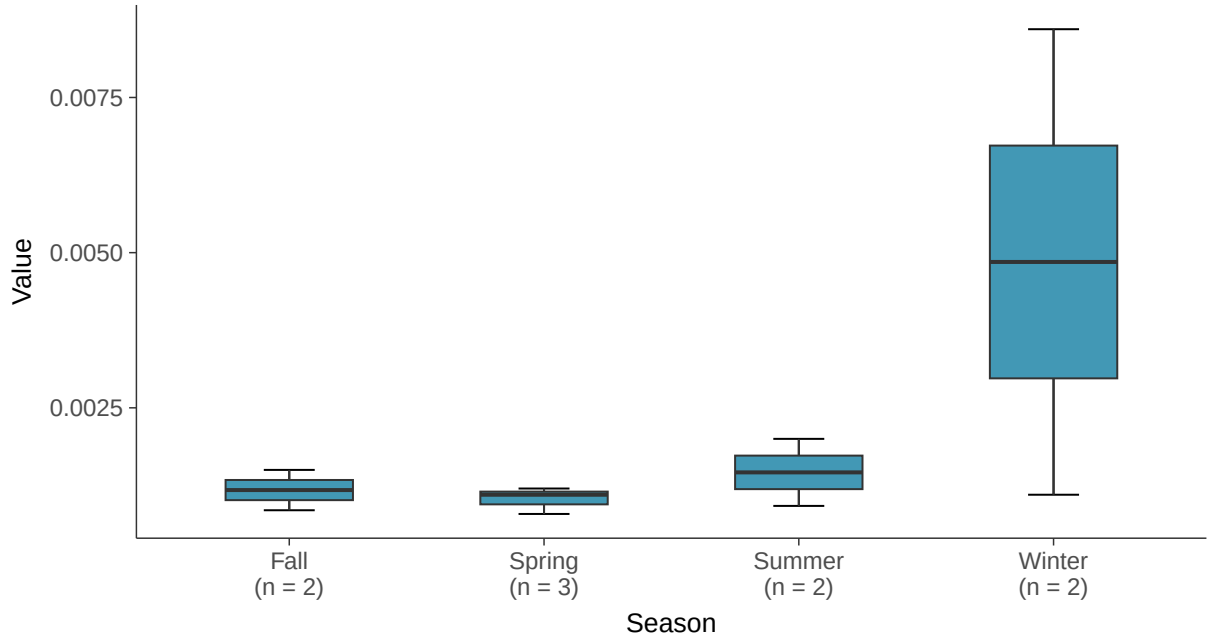
Boxplot

Nickel, MW-17 (mg/L)



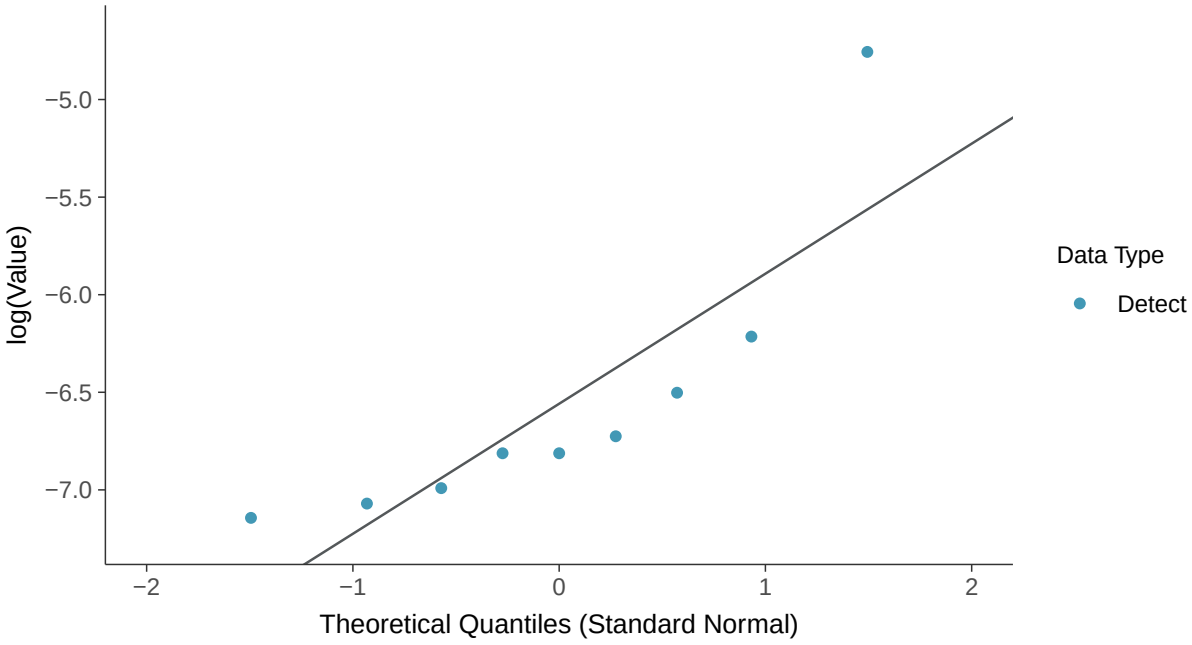
Boxplot by Season

Nickel, MW-17 (mg/L)



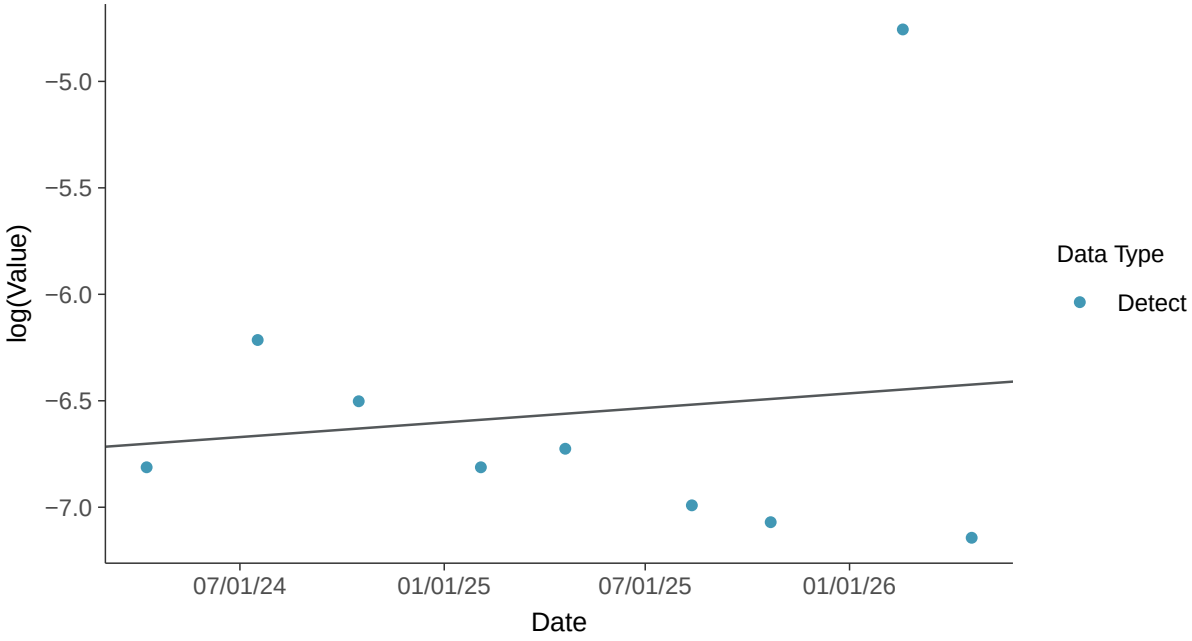
Lognormal Q-Q plot

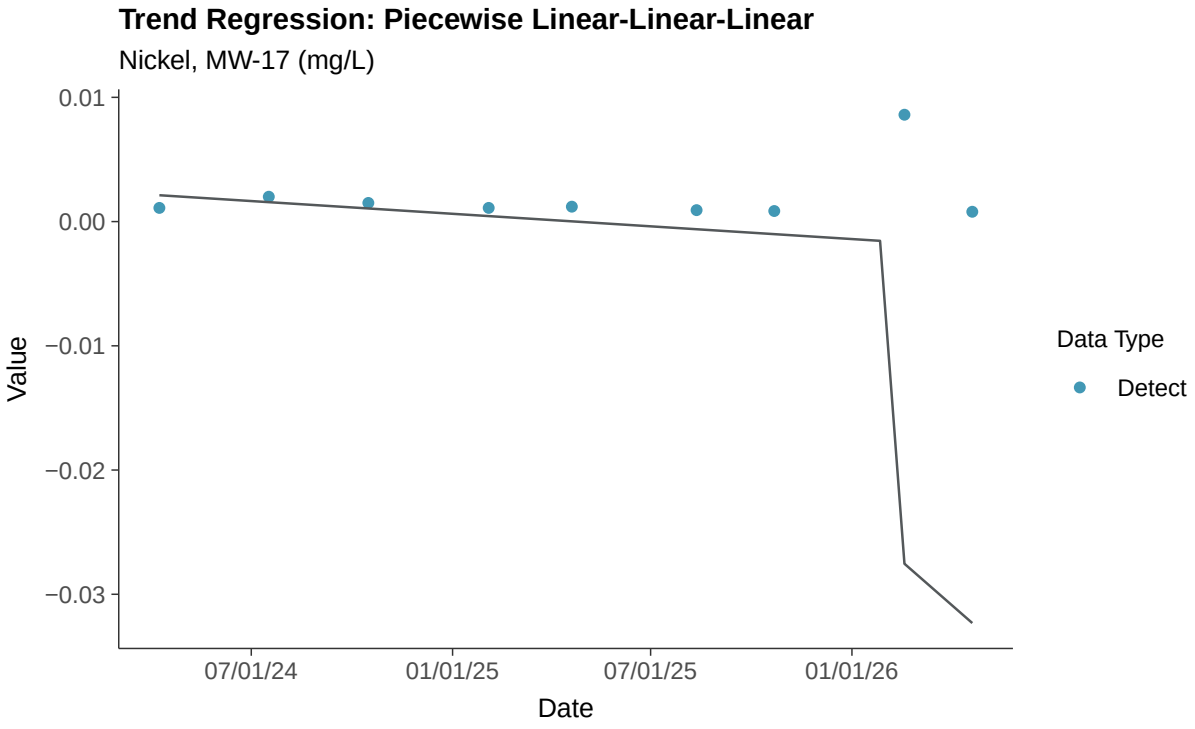
Nickel, MW-17 (mg/L)



Trend Regression: Lognormal MLE

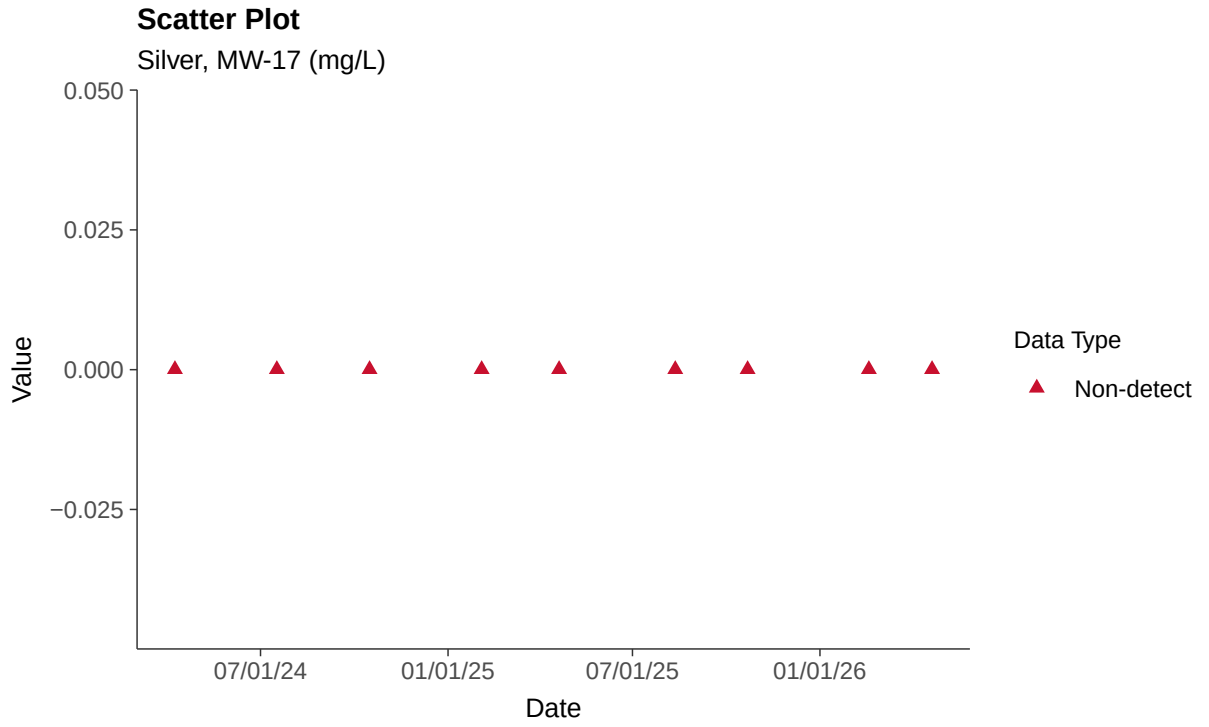
Nickel, MW-17 (mg/L)

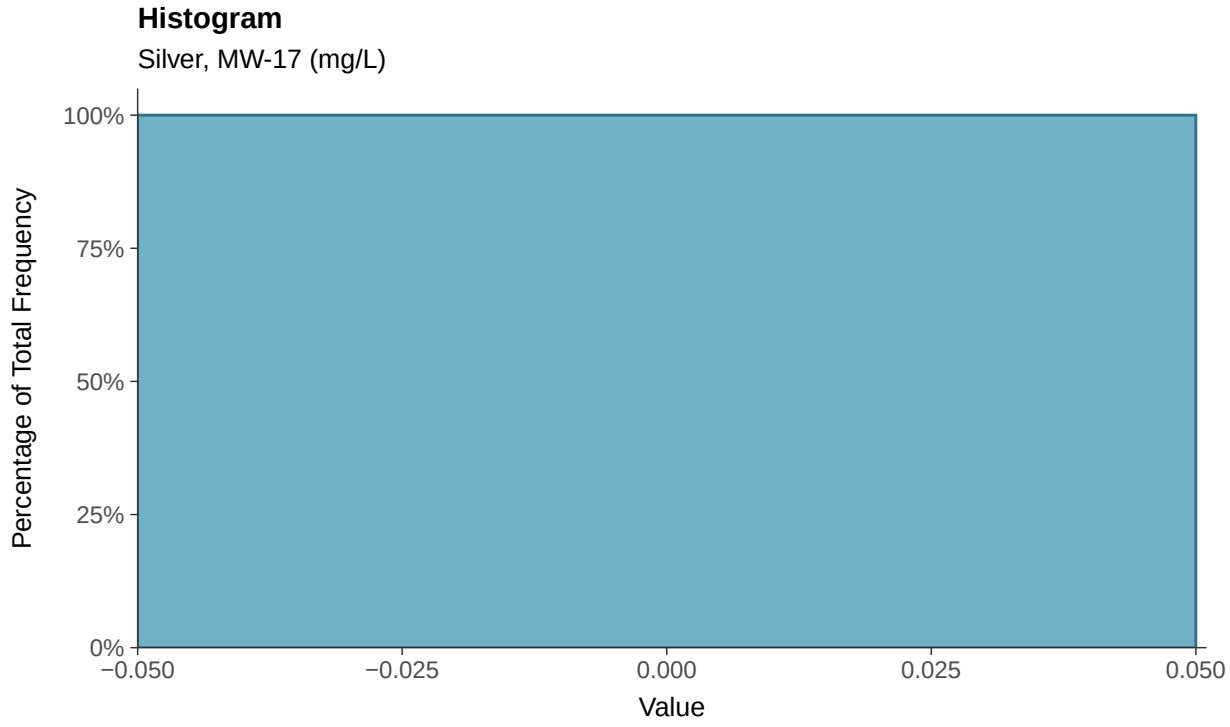



Trend Regression: Piecewise Linear-Linear-Linear
Nickel, MW-17 (mg/L)
0.01
0.00
−0.01
−0.02
−0.03
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Part 115: Silver, MW-17

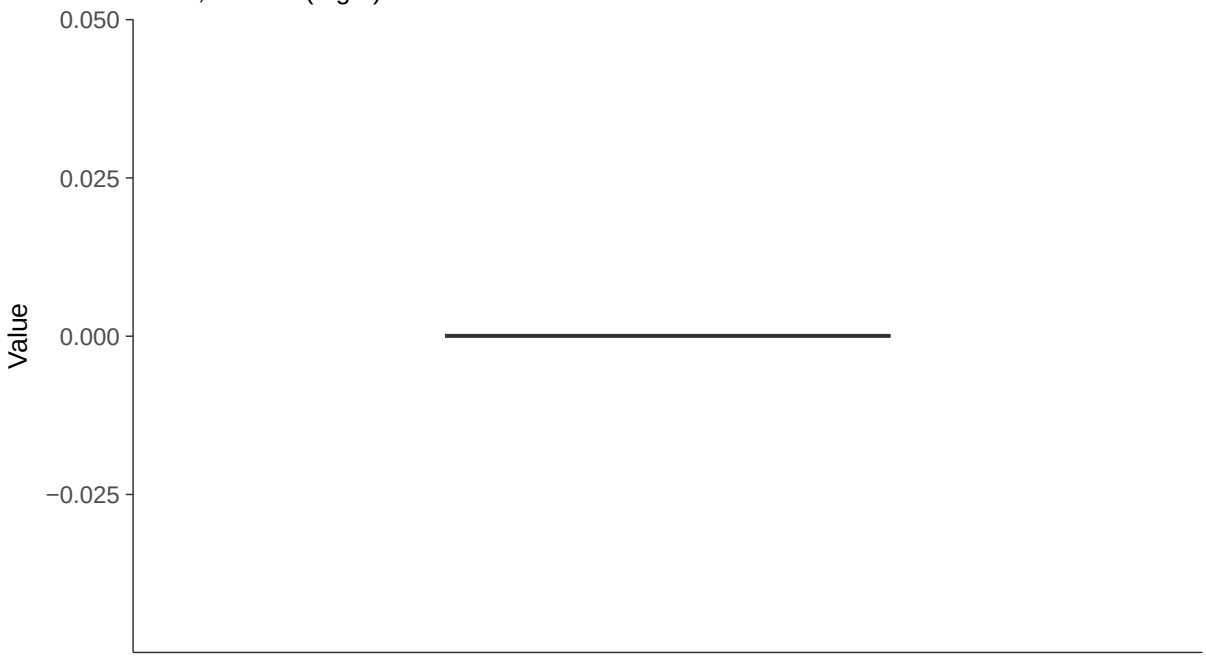
ID: 27_1_5_123





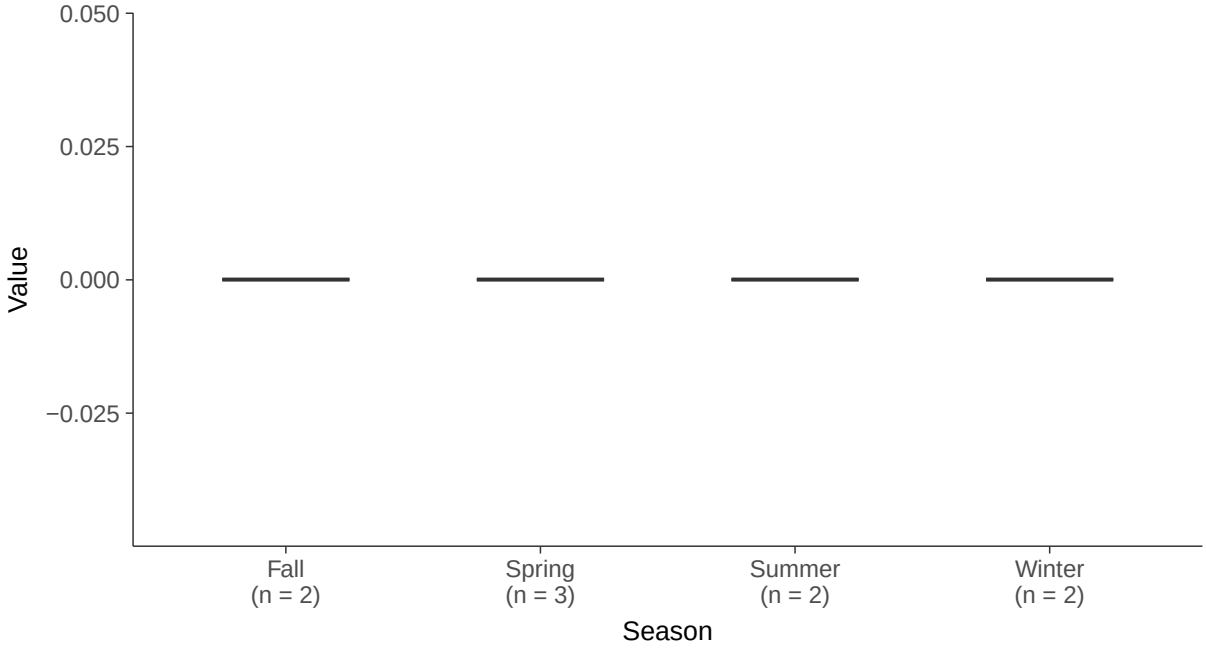
Boxplot

Silver, MW-17 (mg/L)



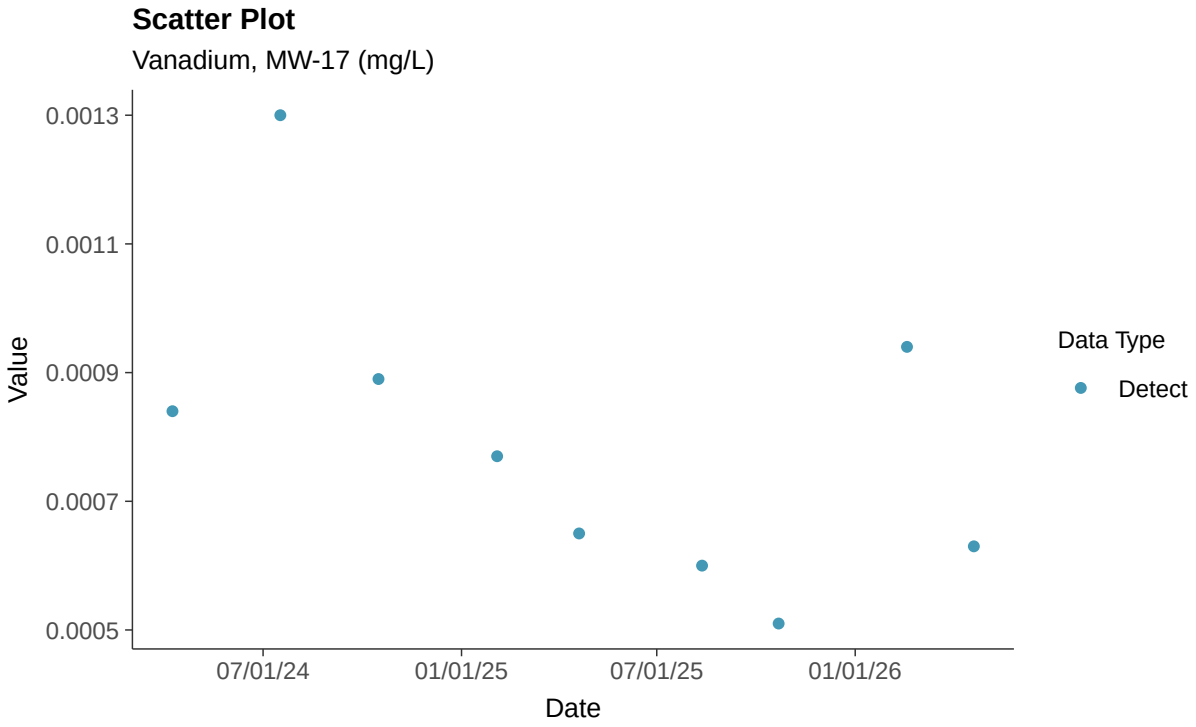
Boxplot by Season

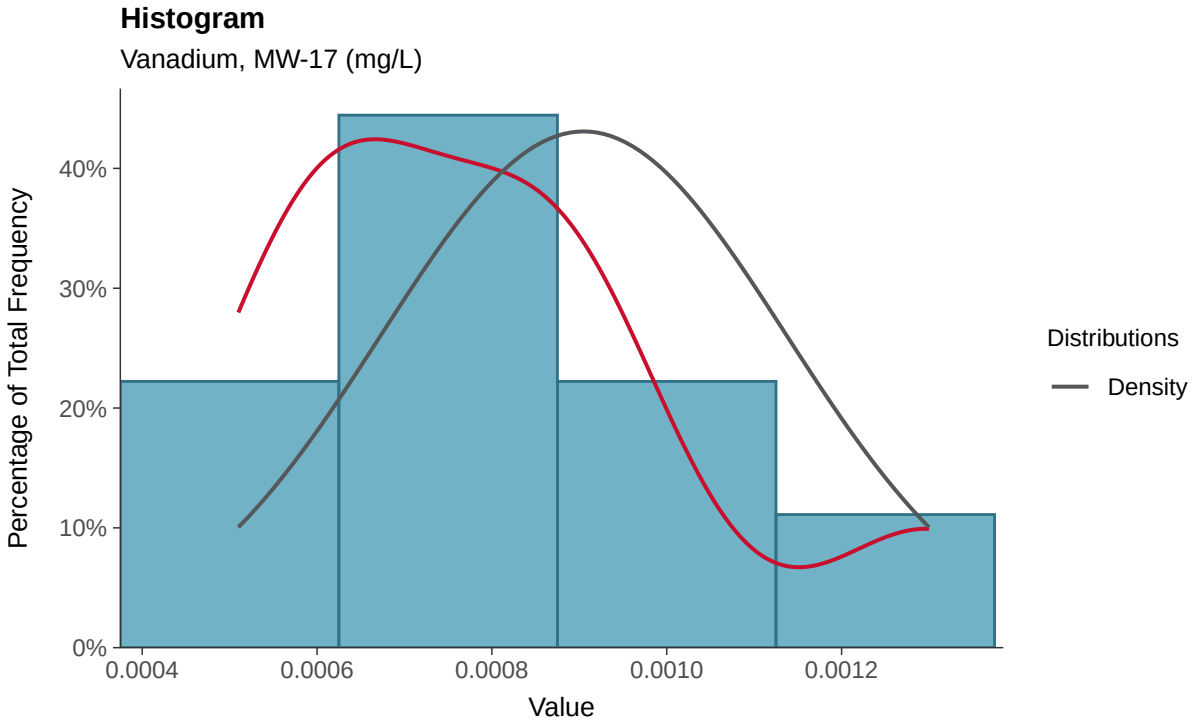
Silver, MW-17 (mg/L)



Part 115: Vanadium, MW-17

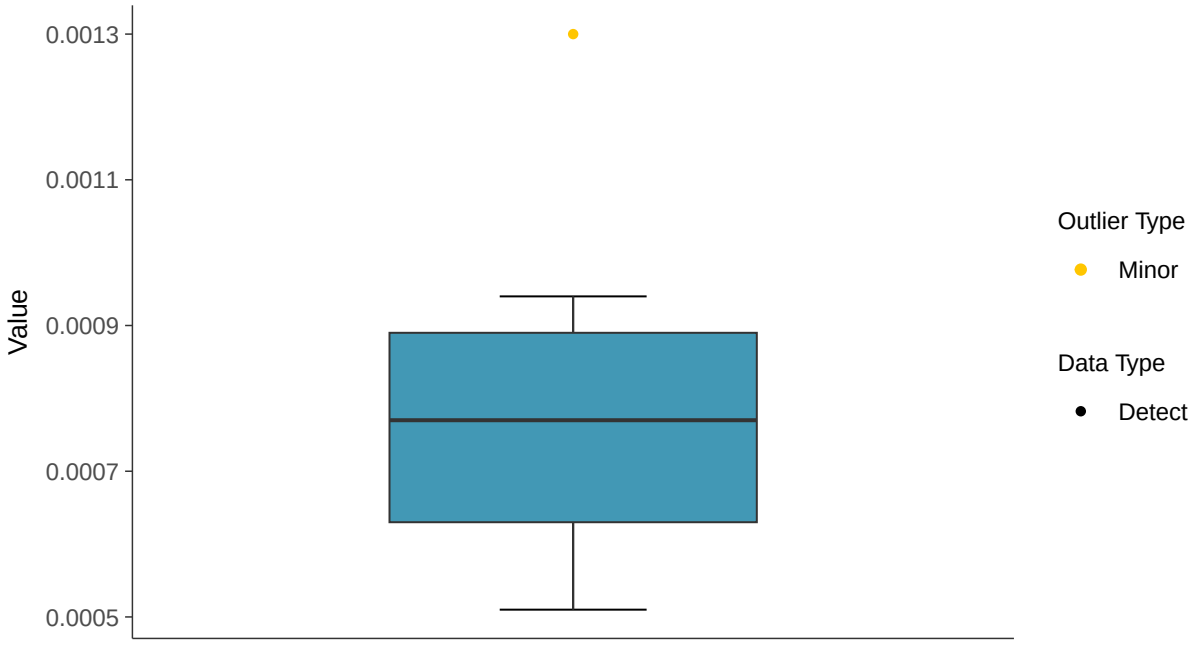
ID: 27_1_5_128





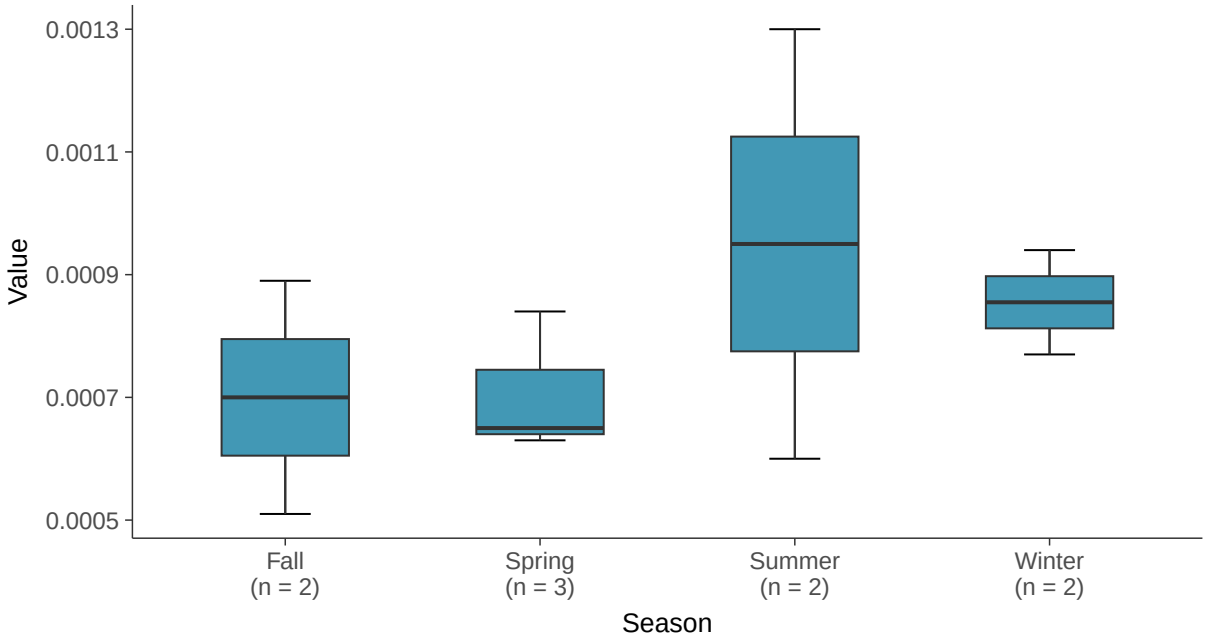
Boxplot

Vanadium, MW-17 (mg/L)



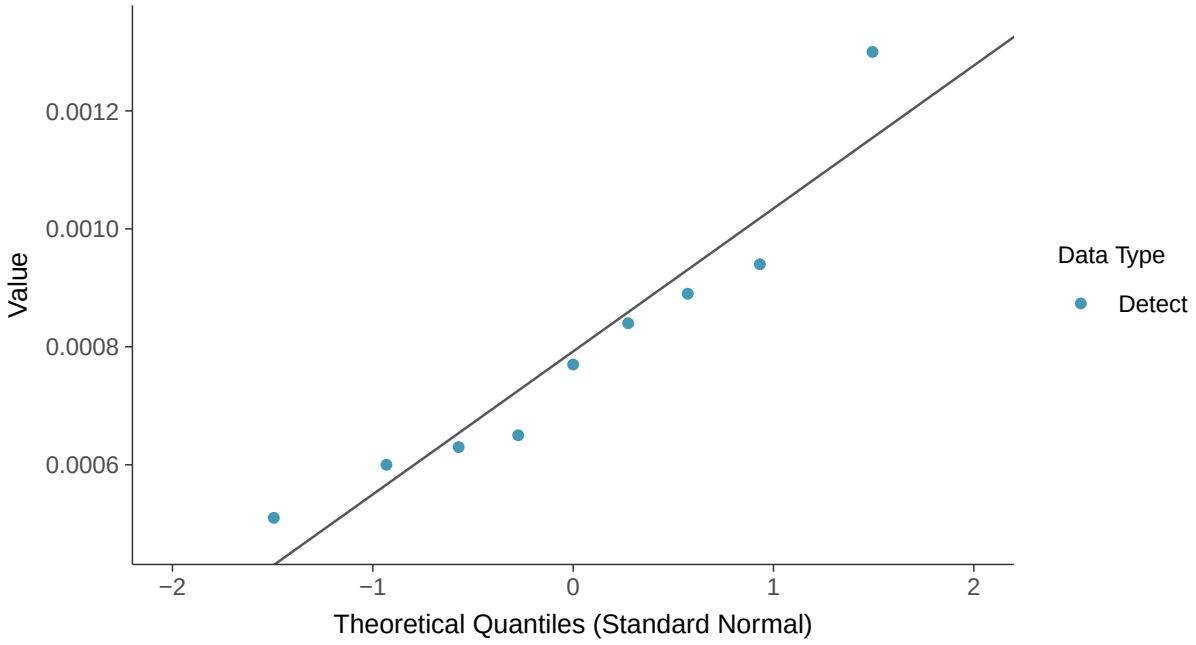
Boxplot by Season

Vanadium, MW-17 (mg/L)



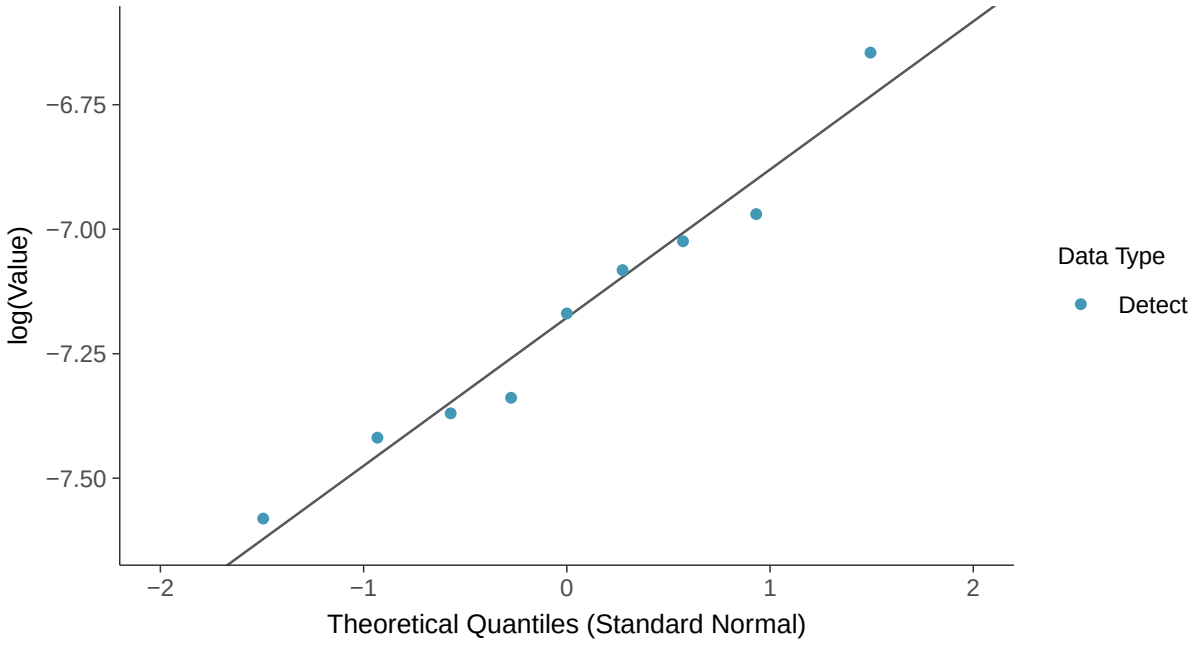
Normal Q-Q plot

Vanadium, MW-17 (mg/L)



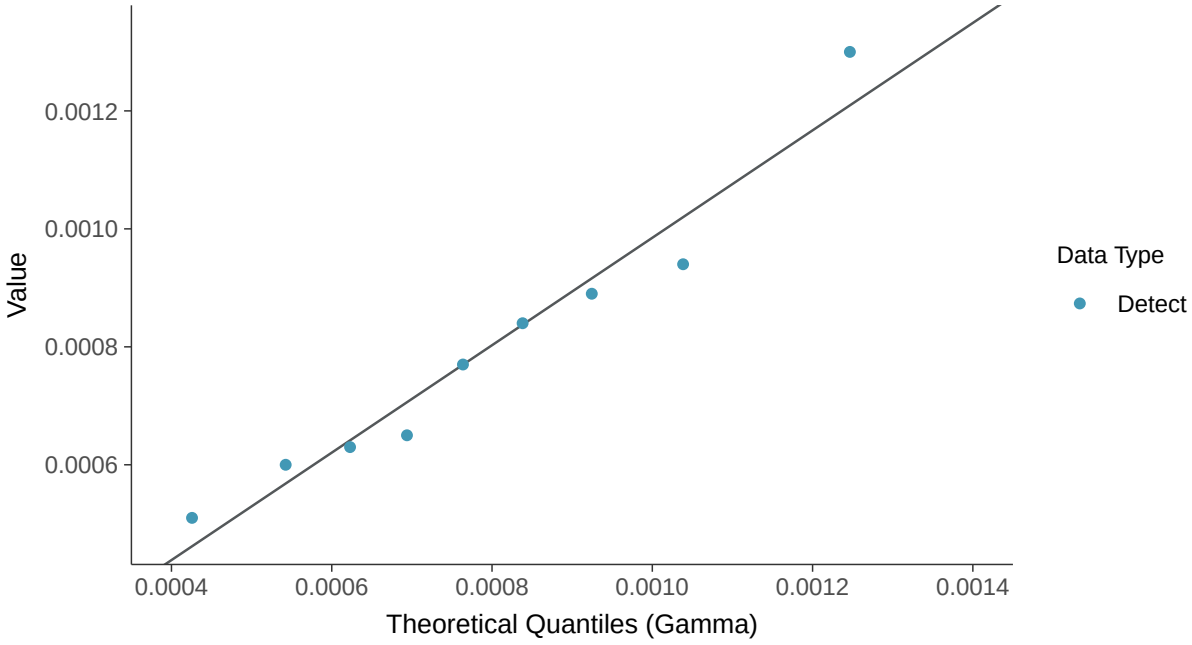
Lognormal Q-Q plot

Vanadium, MW-17 (mg/L)



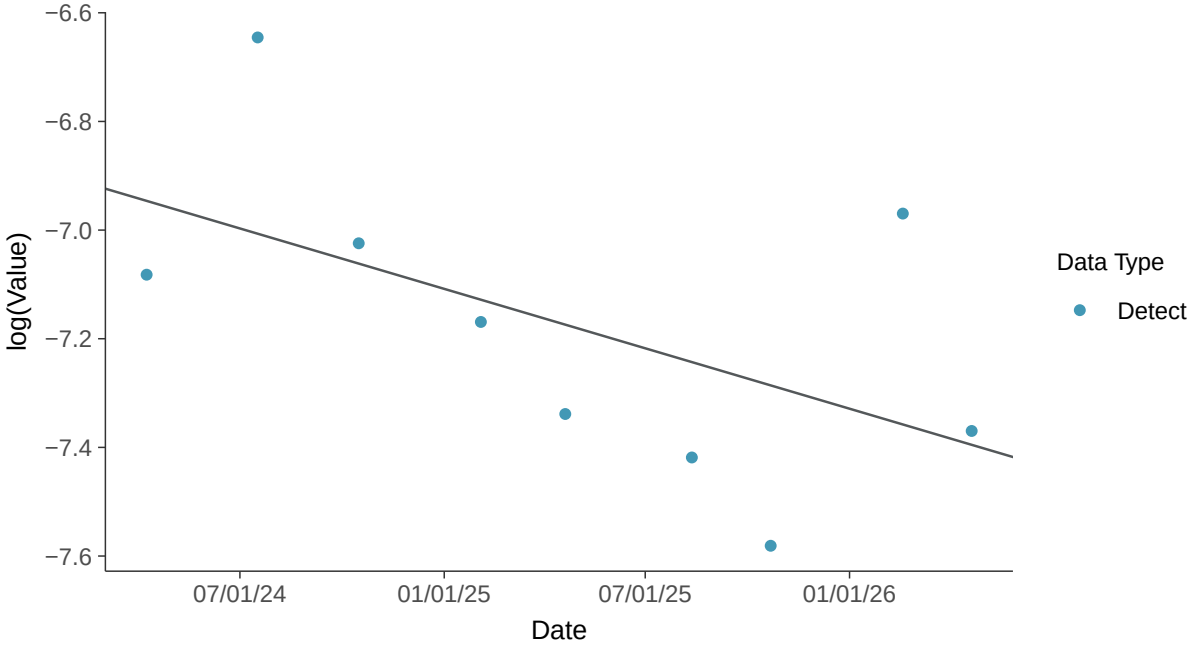
Gamma Q-Q plot

Vanadium, MW-17 (mg/L)



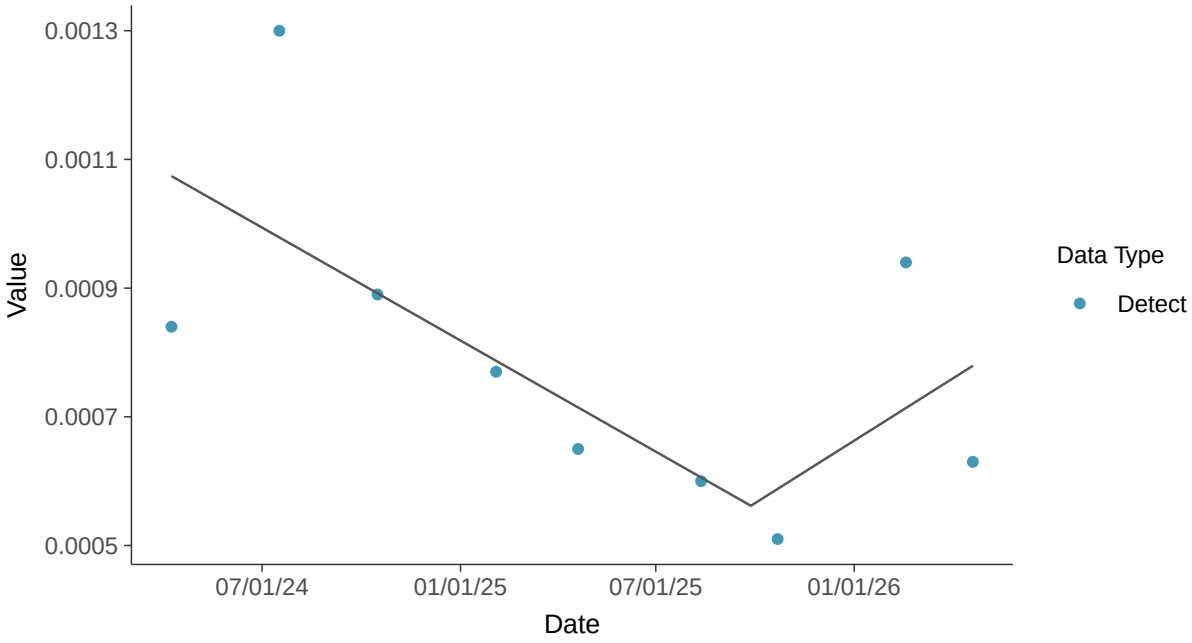
Trend Regression: Lognormal MLE

Vanadium, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear

Vanadium, MW-17 (mg/L)

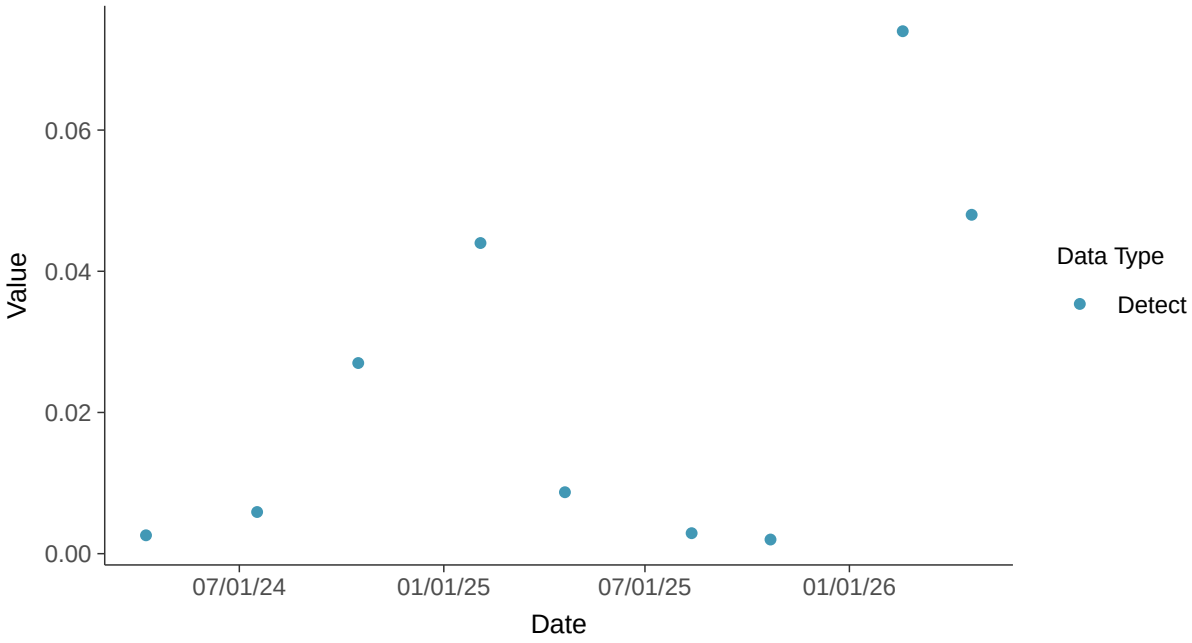


Part 115: Zinc, MW-17

ID: 27_1_5_129

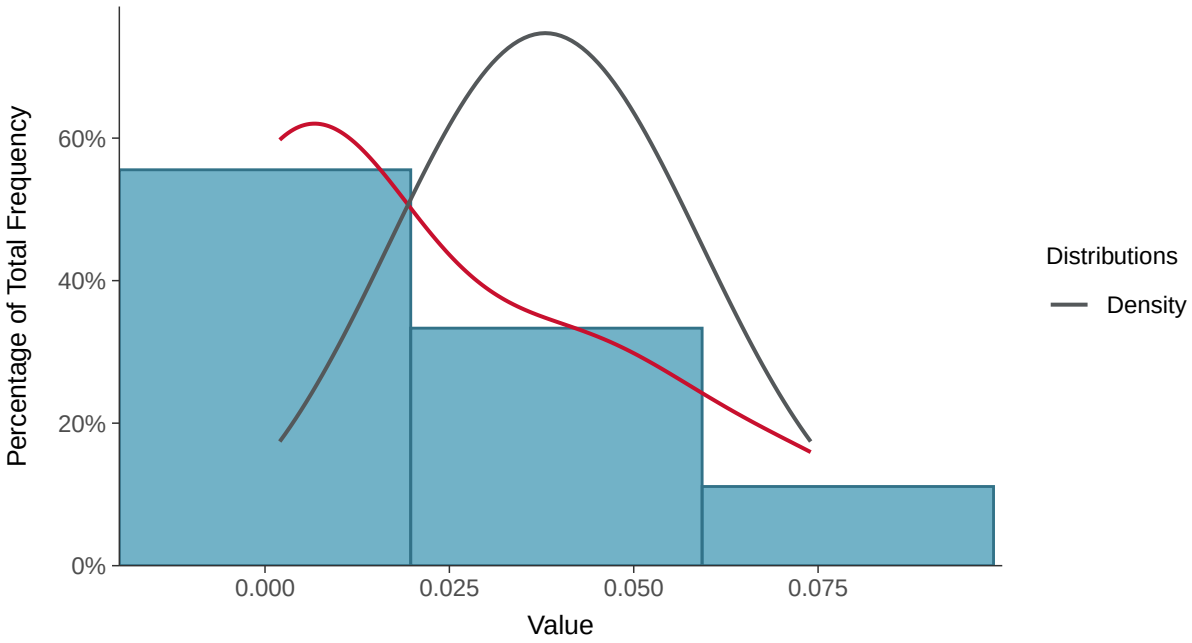
Scatter Plot

Zinc, MW-17 (mg/L)



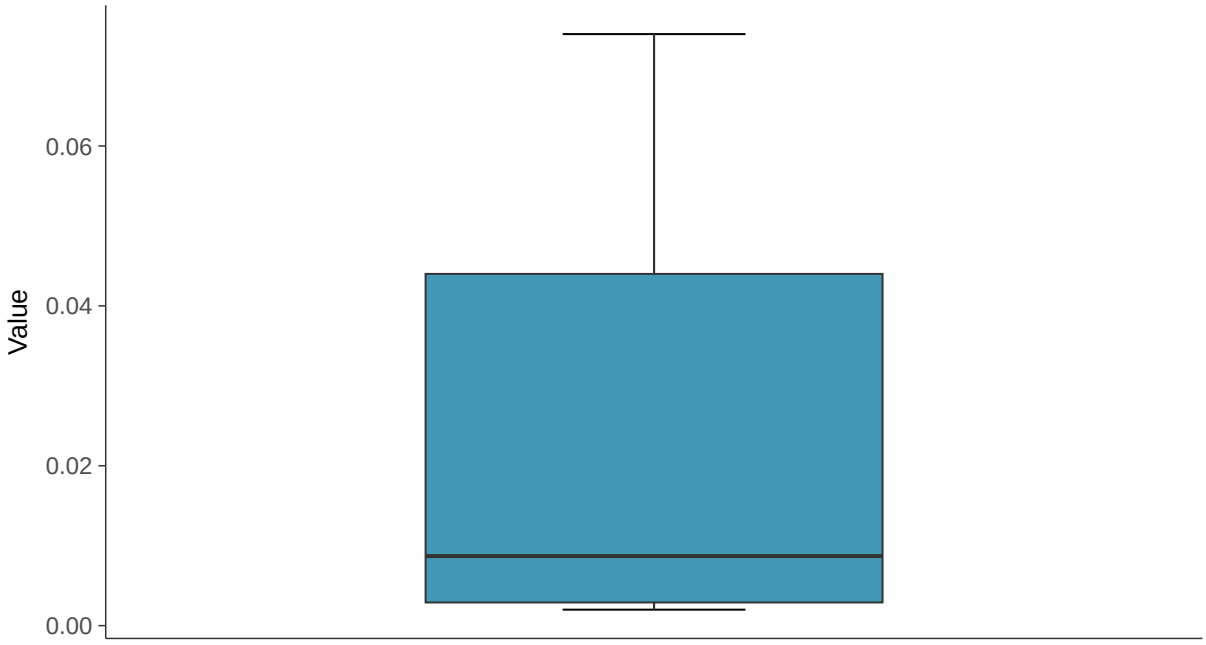
Histogram

Zinc, MW-17 (mg/L)



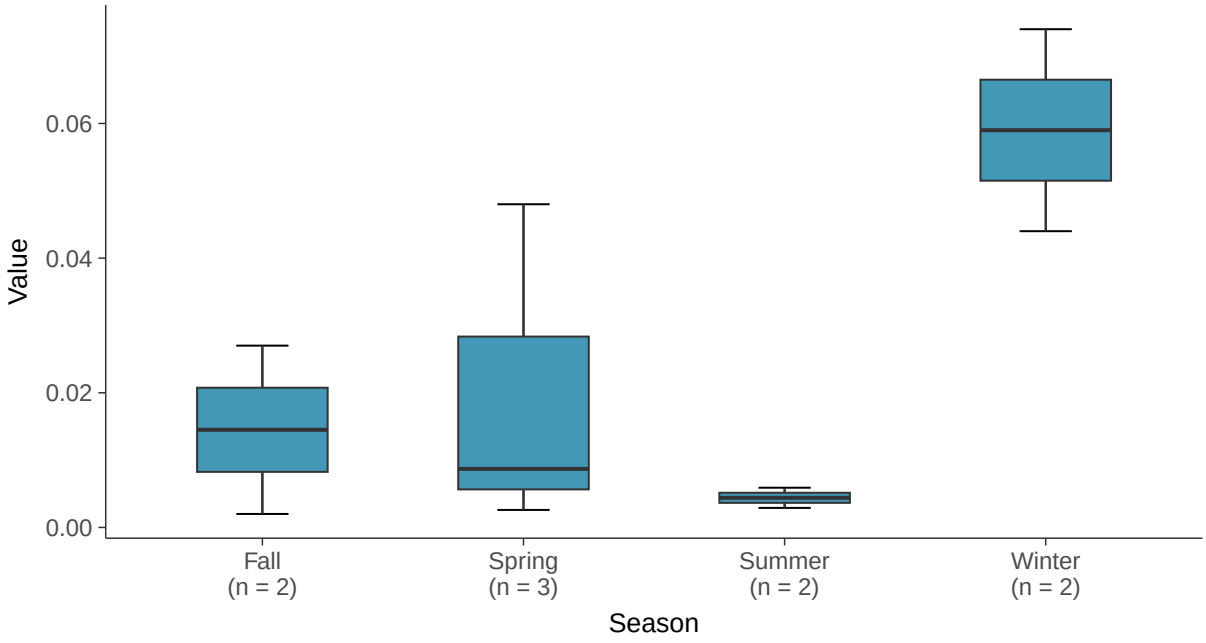
Boxplot

Zinc, MW-17 (mg/L)



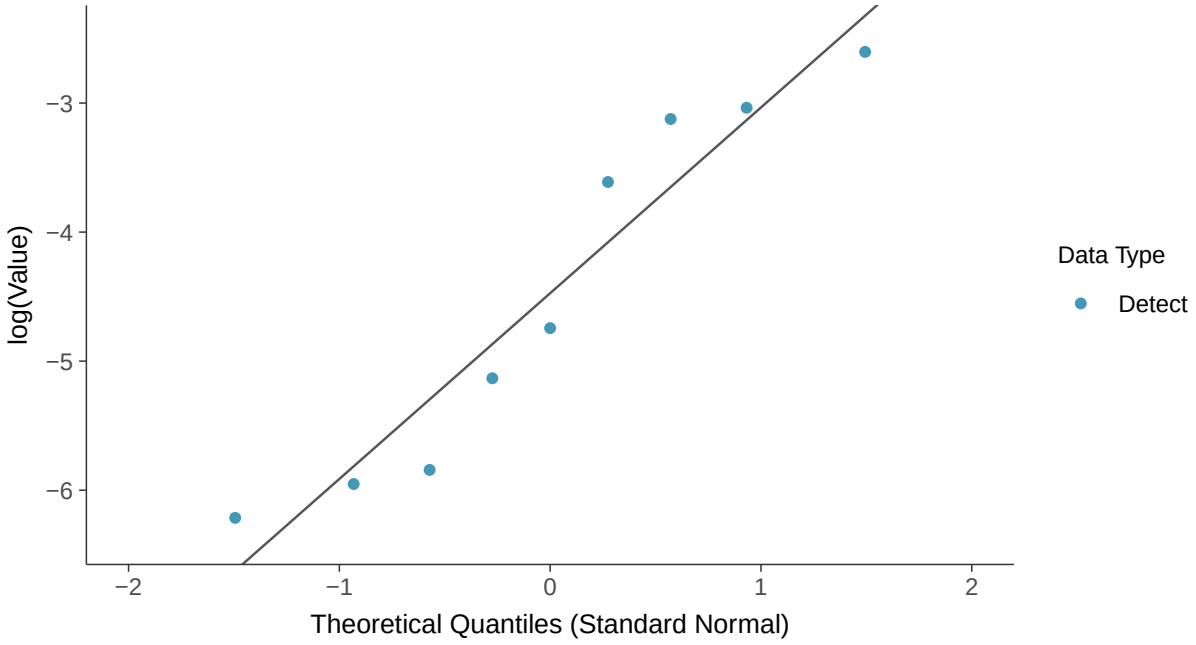
Boxplot by Season

Zinc, MW-17 (mg/L)



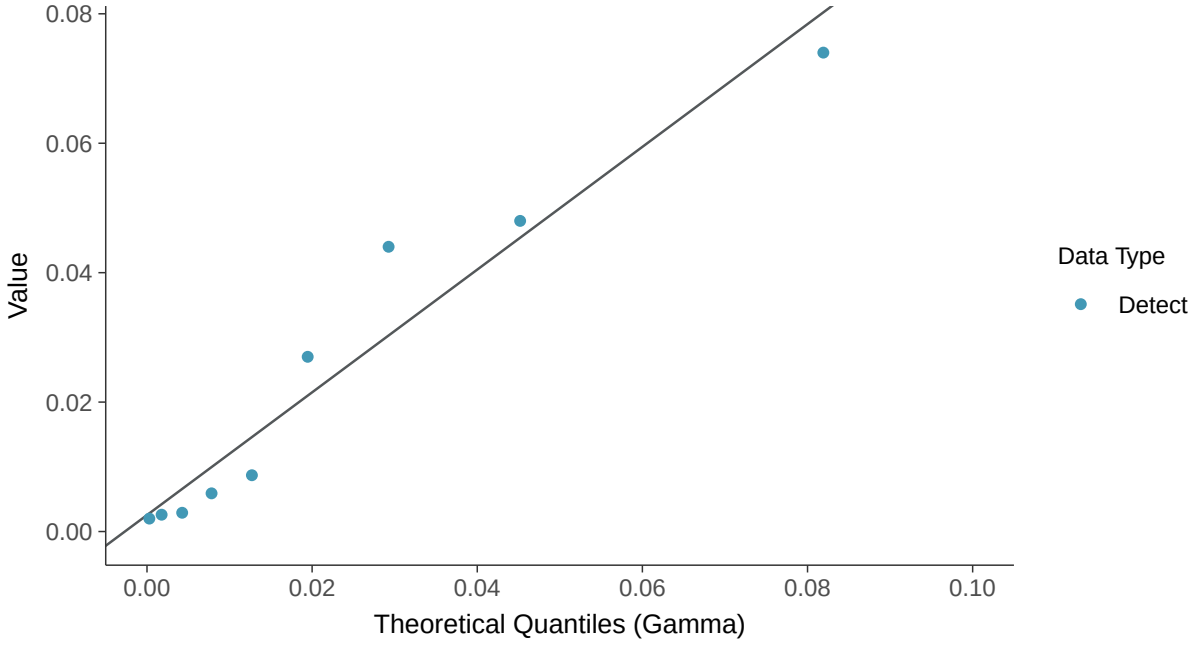
Lognormal Q-Q plot

Zinc, MW-17 (mg/L)



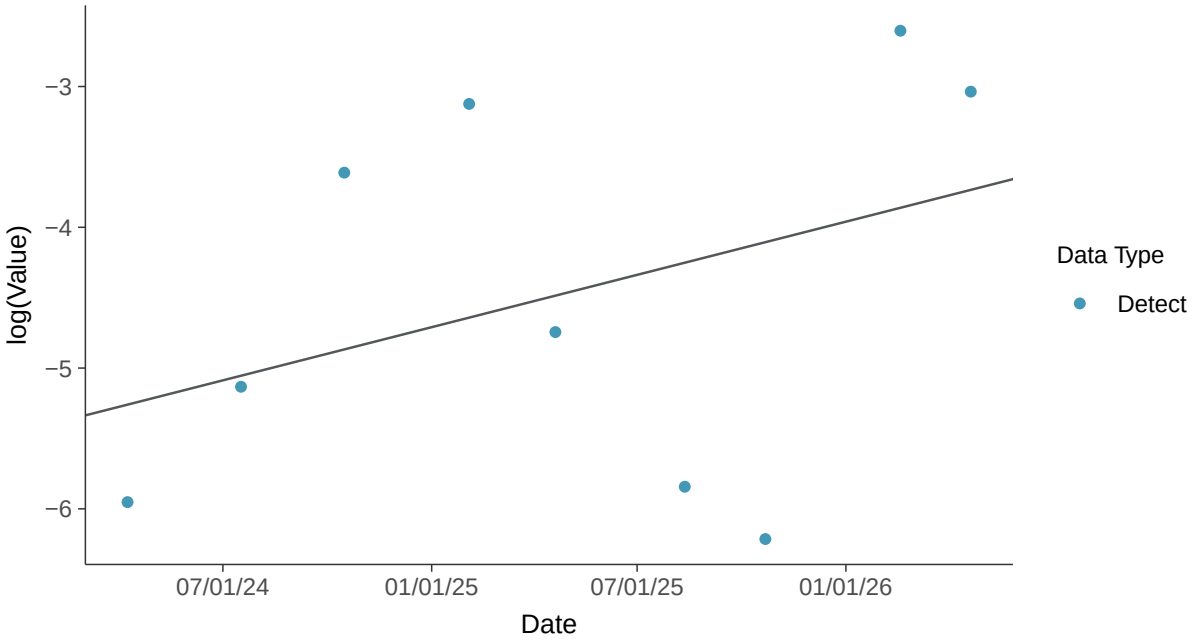
Gamma Q-Q plot

Zinc, MW-17 (mg/L)



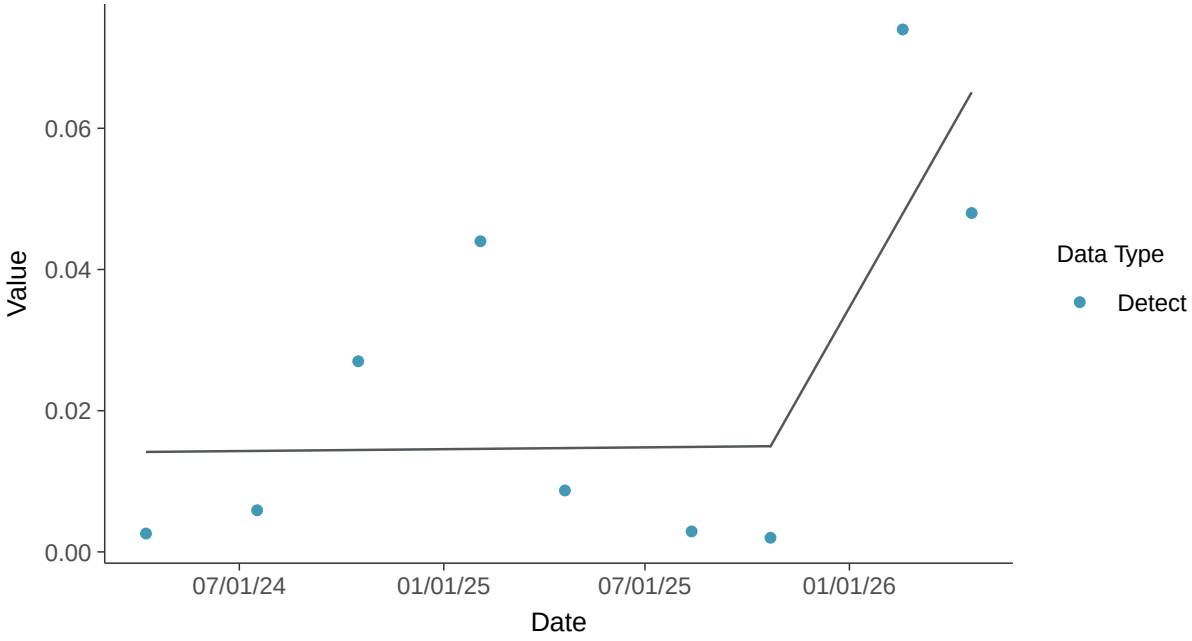
Trend Regression: Lognormal MLE

Zinc, MW-17 (mg/L)



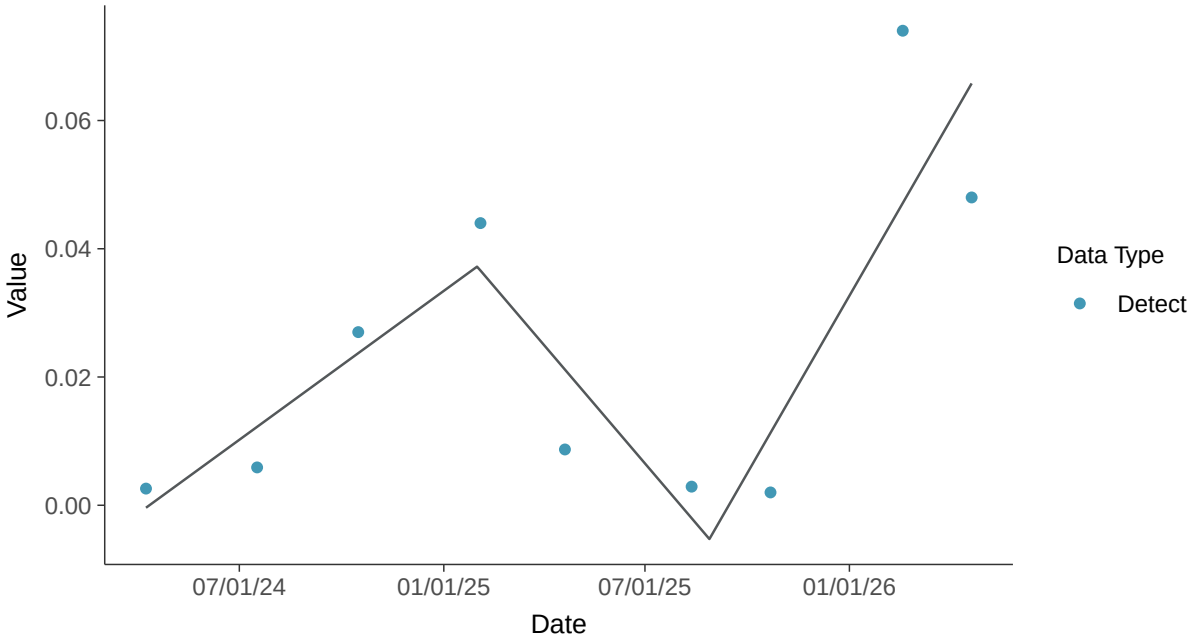
Trend Regression: Piecewise Linear-Linear

Zinc, MW-17 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-17 (mg/L)

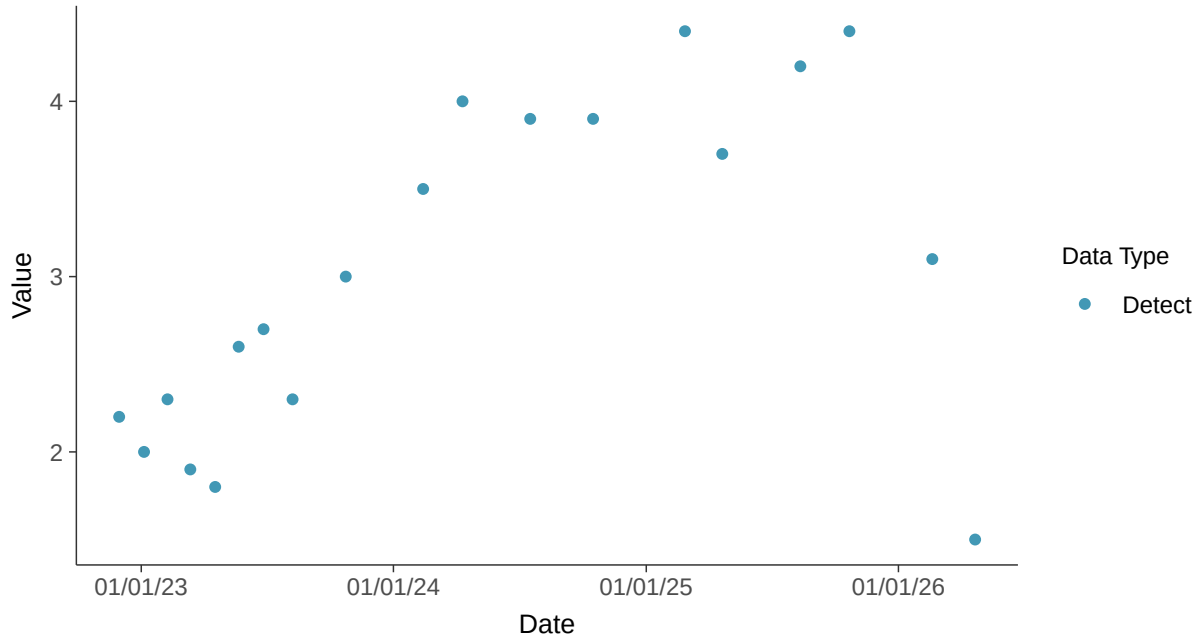


Appendix III: Boron, MW-18

ID: 28_1_3_105

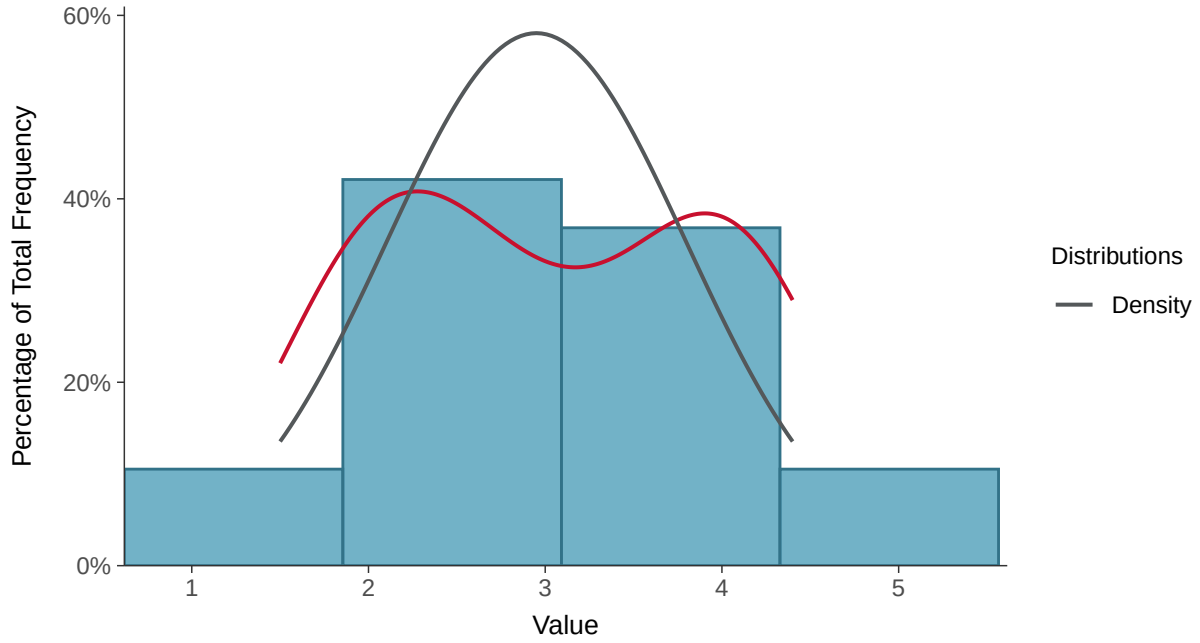
Scatter Plot

Boron, MW-18 (mg/L)



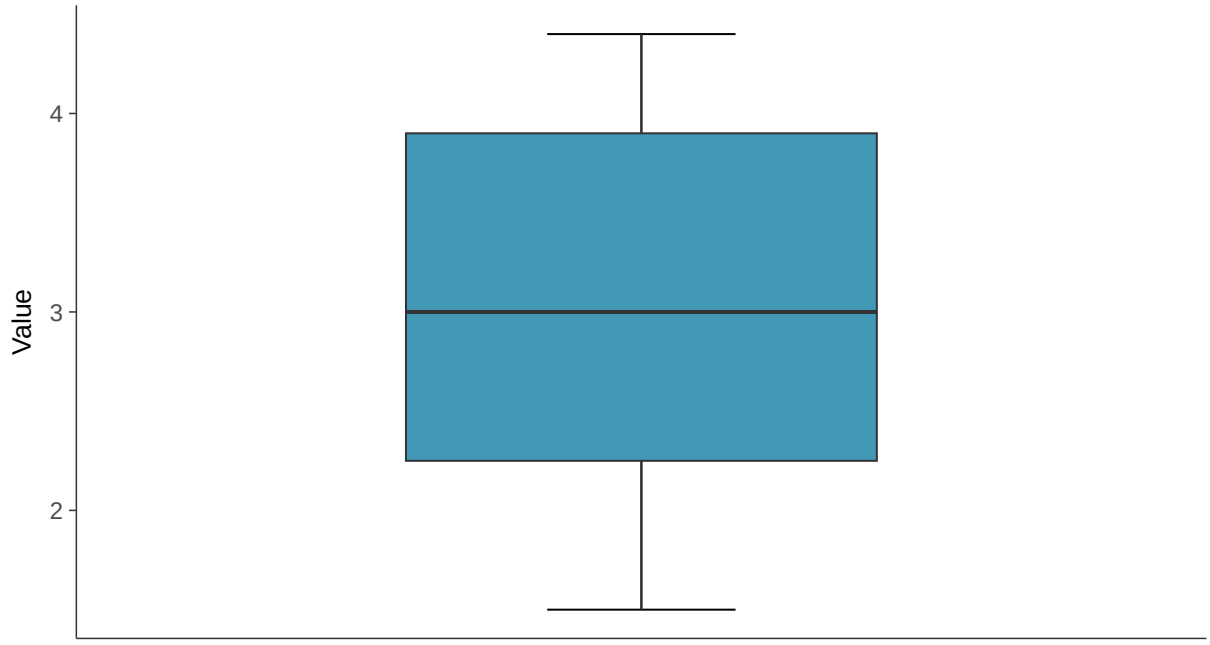
Histogram

Boron, MW-18 (mg/L)



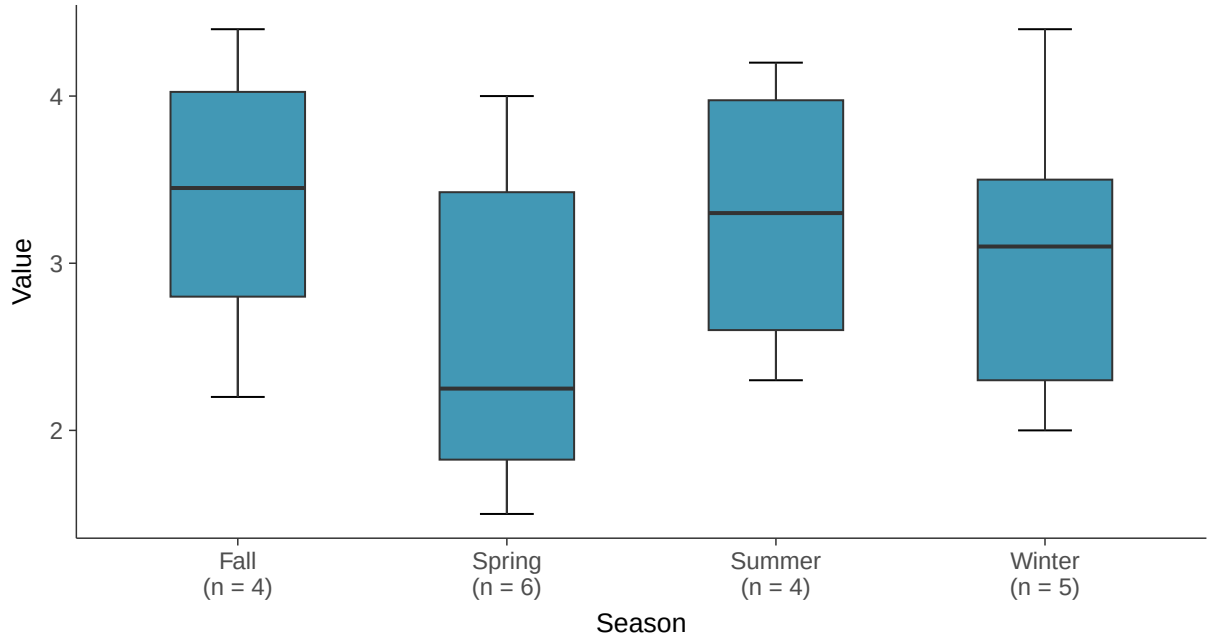
Boxplot

Boron, MW-18 (mg/L)



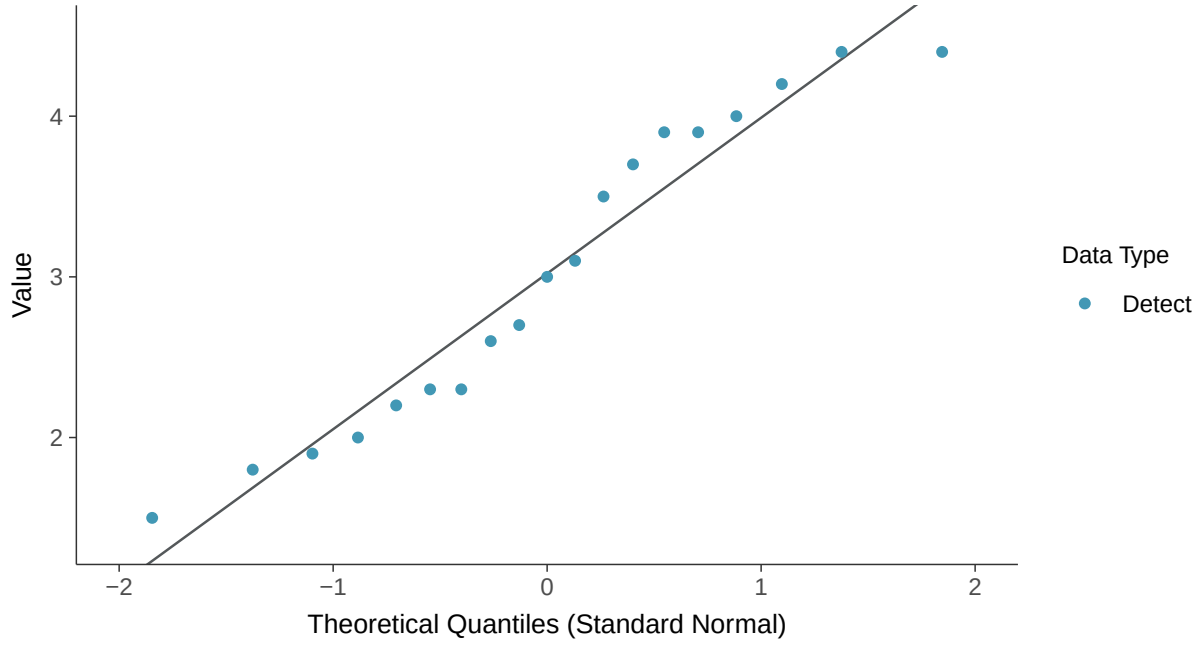
Boxplot by Season

Boron, MW-18 (mg/L)



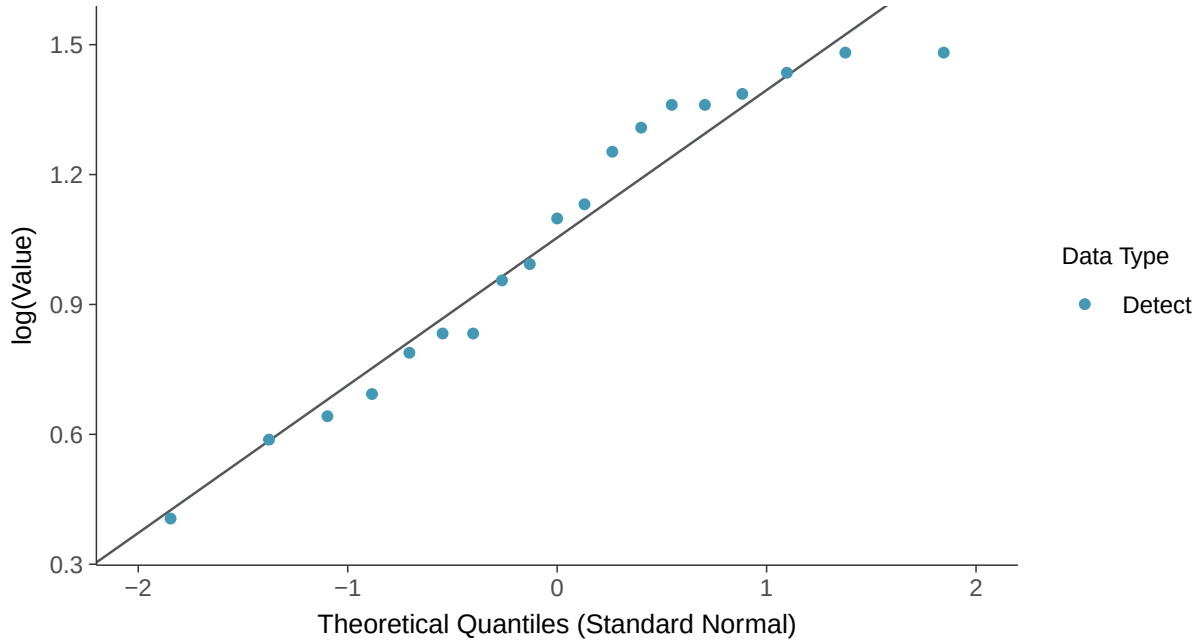
Normal Q-Q plot

Boron, MW-18 (mg/L)



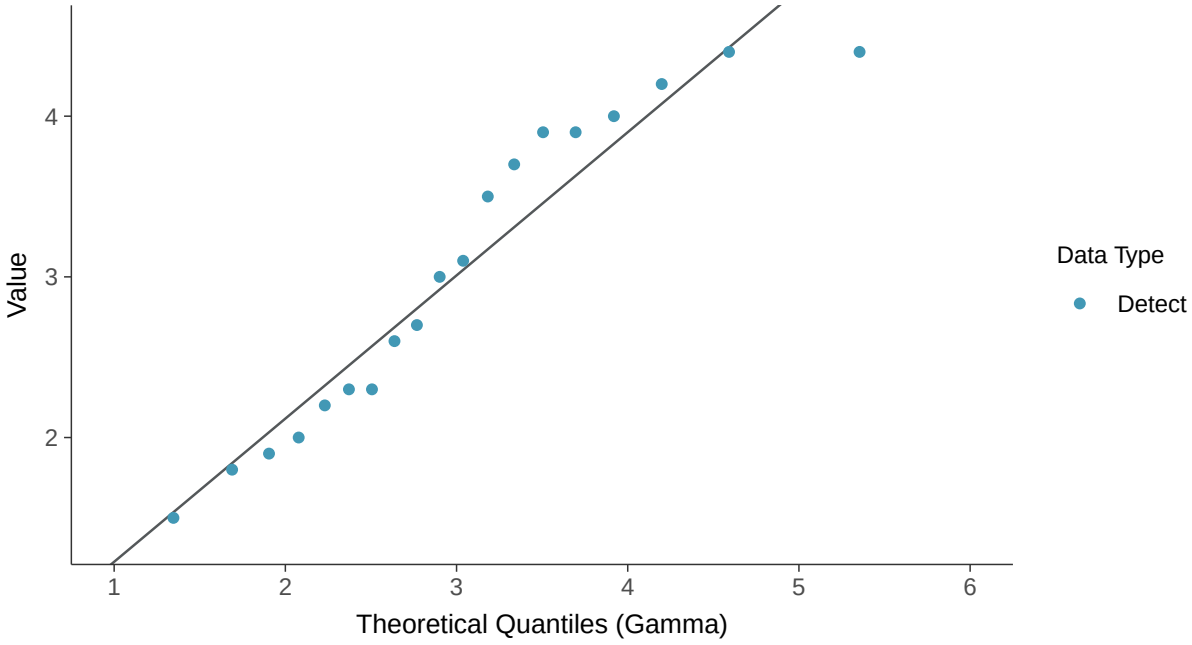
Lognormal Q-Q plot

Boron, MW-18 (mg/L)



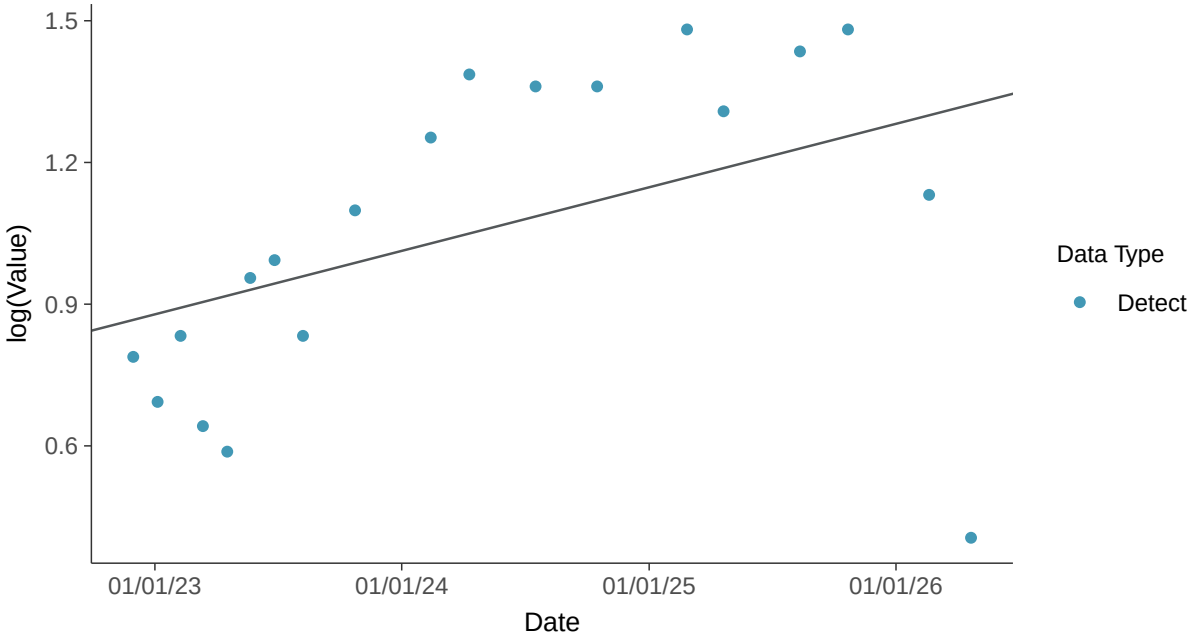
Gamma Q-Q plot

Boron, MW-18 (mg/L)



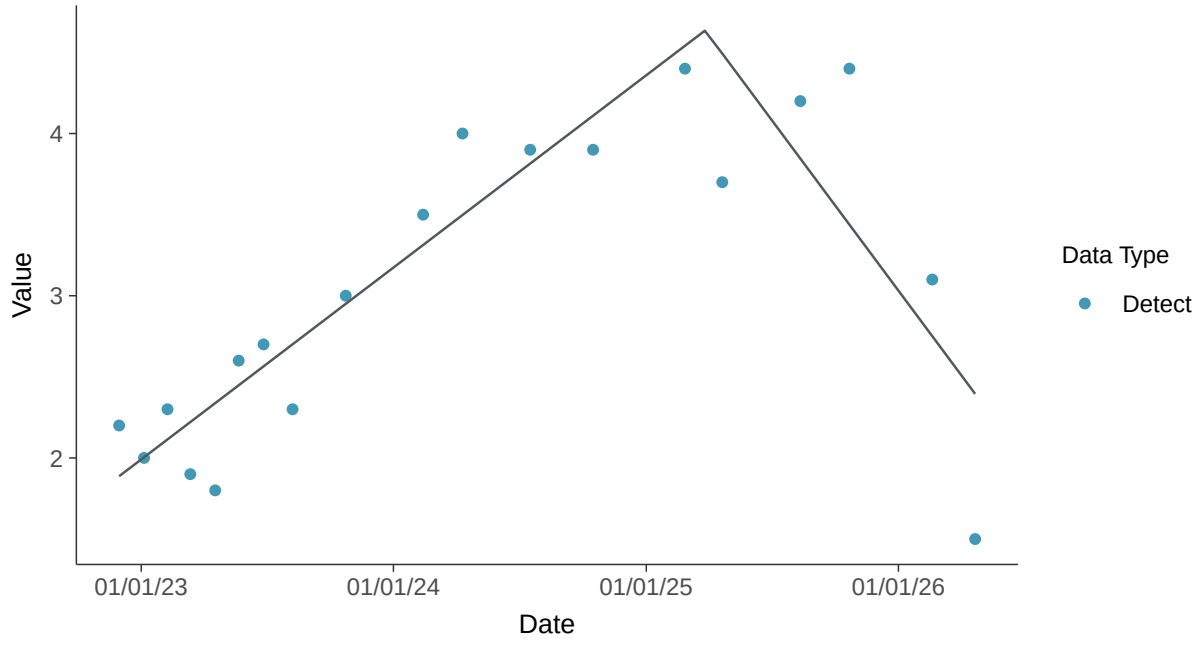
Trend Regression: Lognormal MLE

Boron, MW-18 (mg/L)



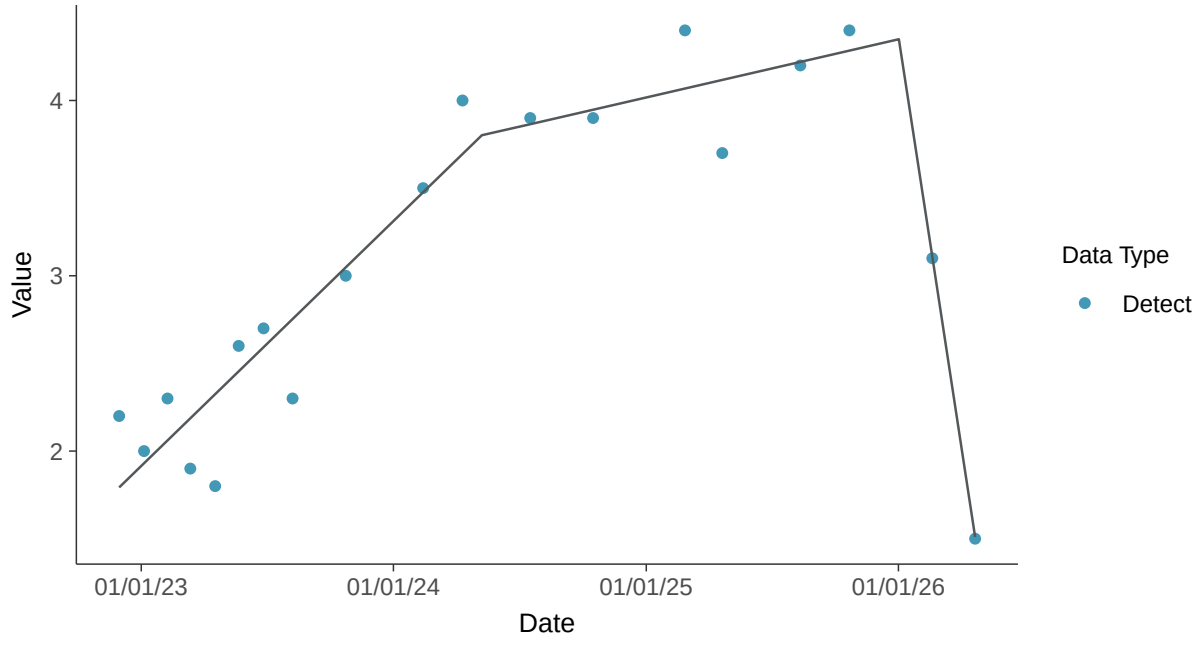
Trend Regression: Piecewise Linear-Linear

Boron, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-18 (mg/L)

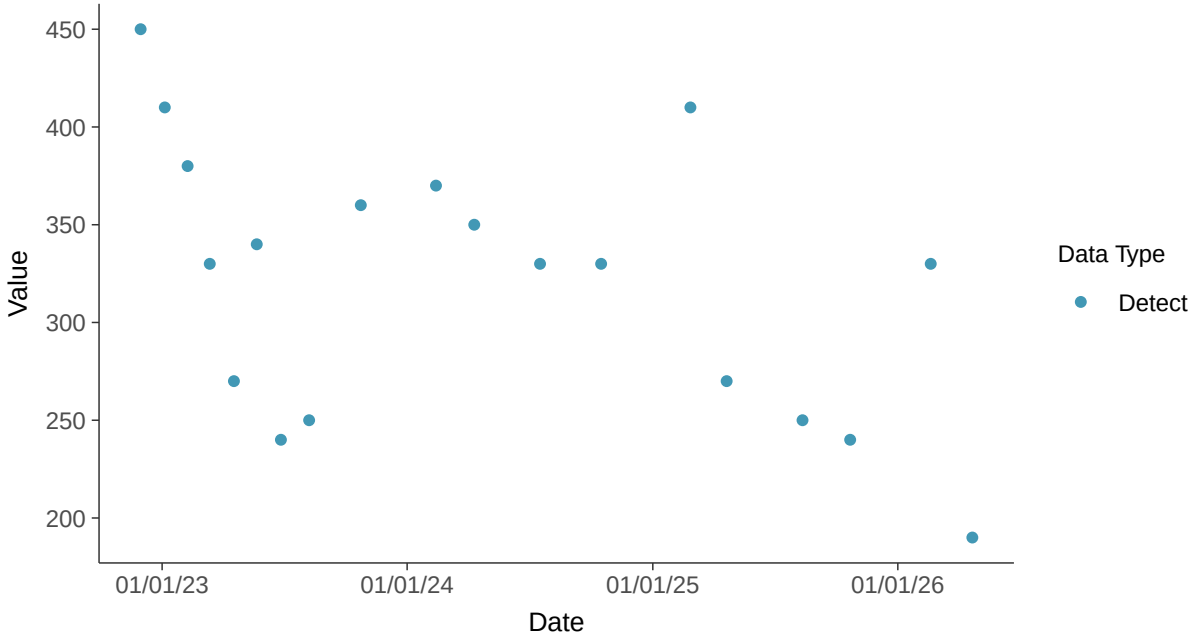


Appendix III: Calcium, MW-18

ID: 28_1_3_107

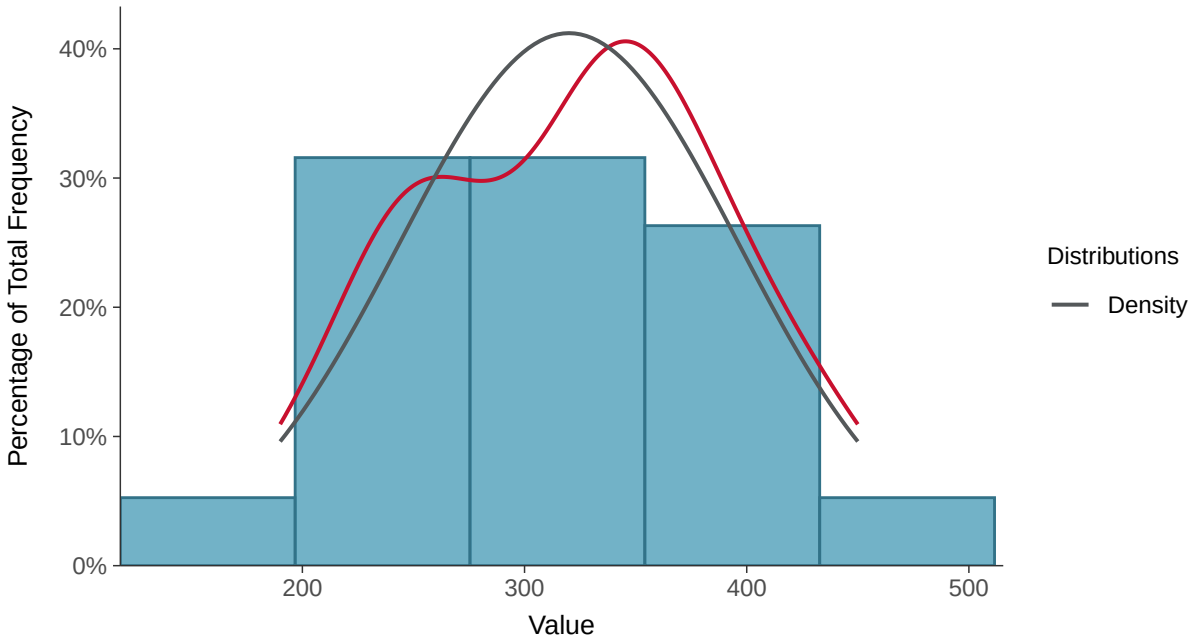
Scatter Plot

Calcium, MW-18 (mg/L)



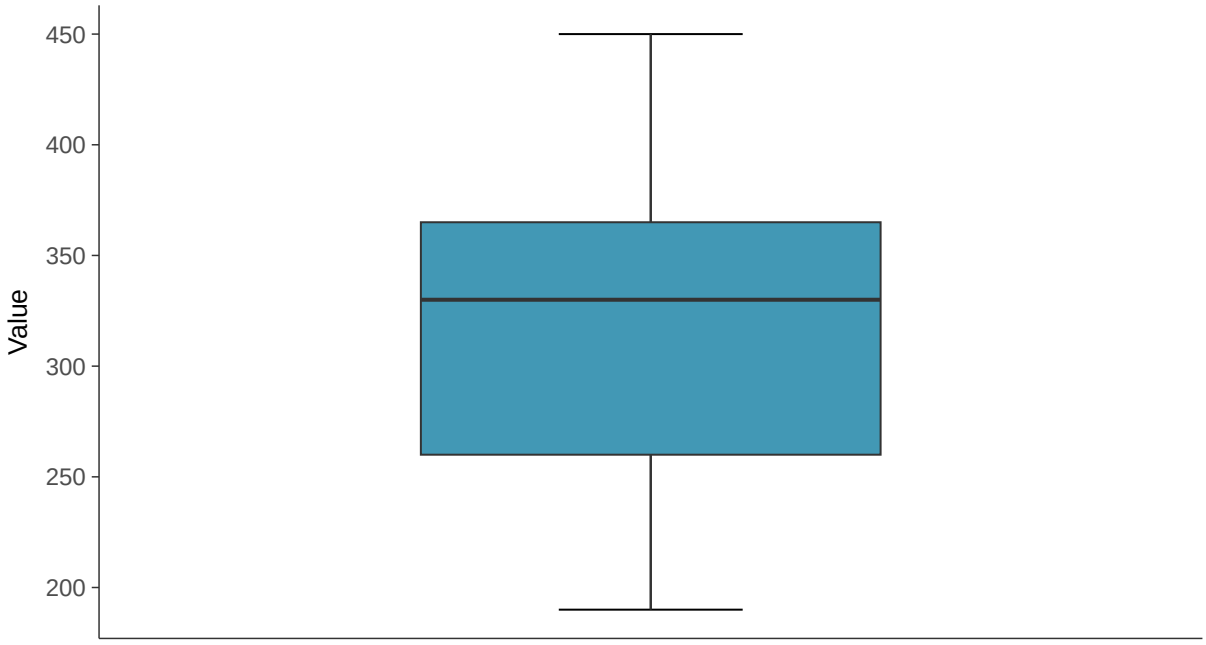
Histogram

Calcium, MW-18 (mg/L)



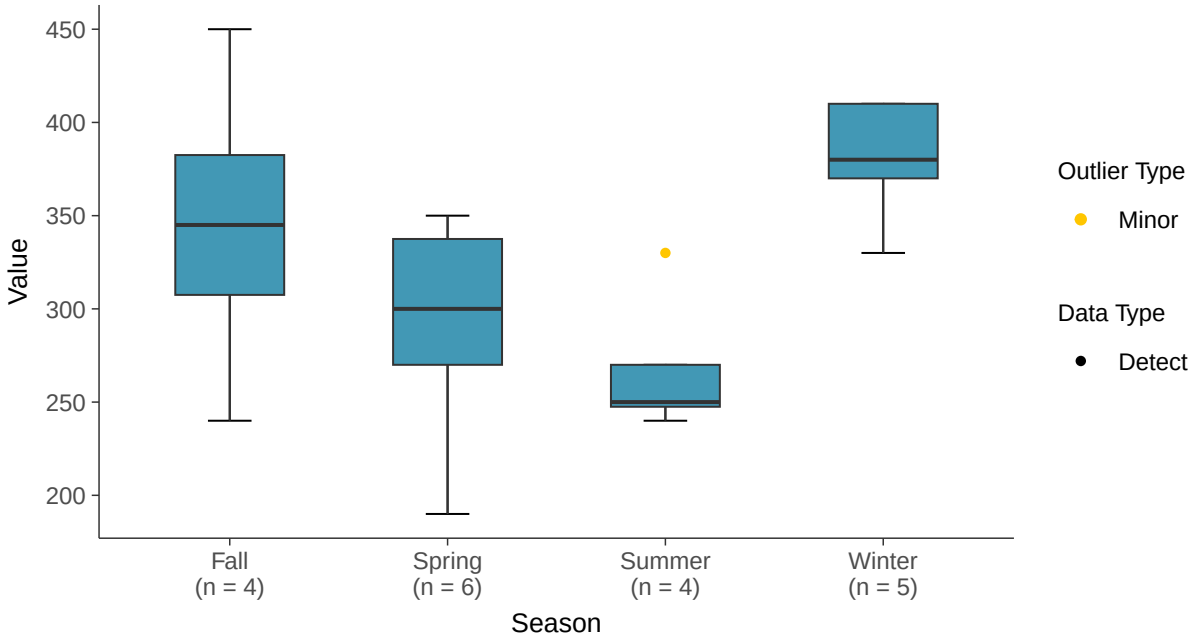
Boxplot

Calcium, MW-18 (mg/L)



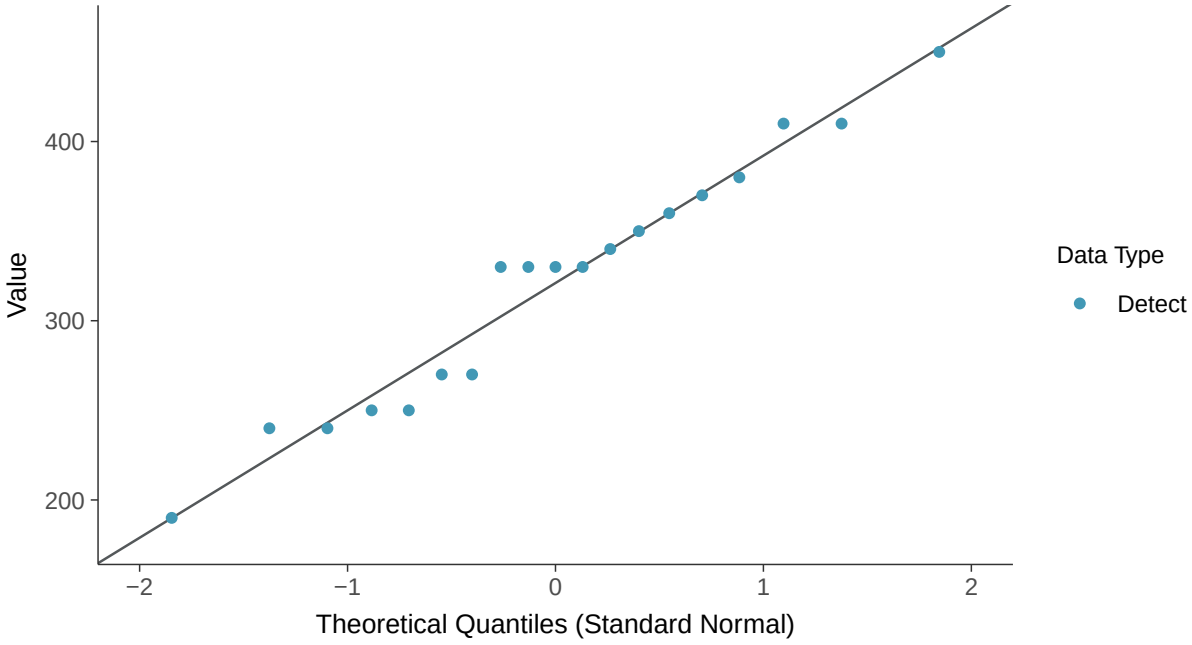
Boxplot by Season

Calcium, MW-18 (mg/L)



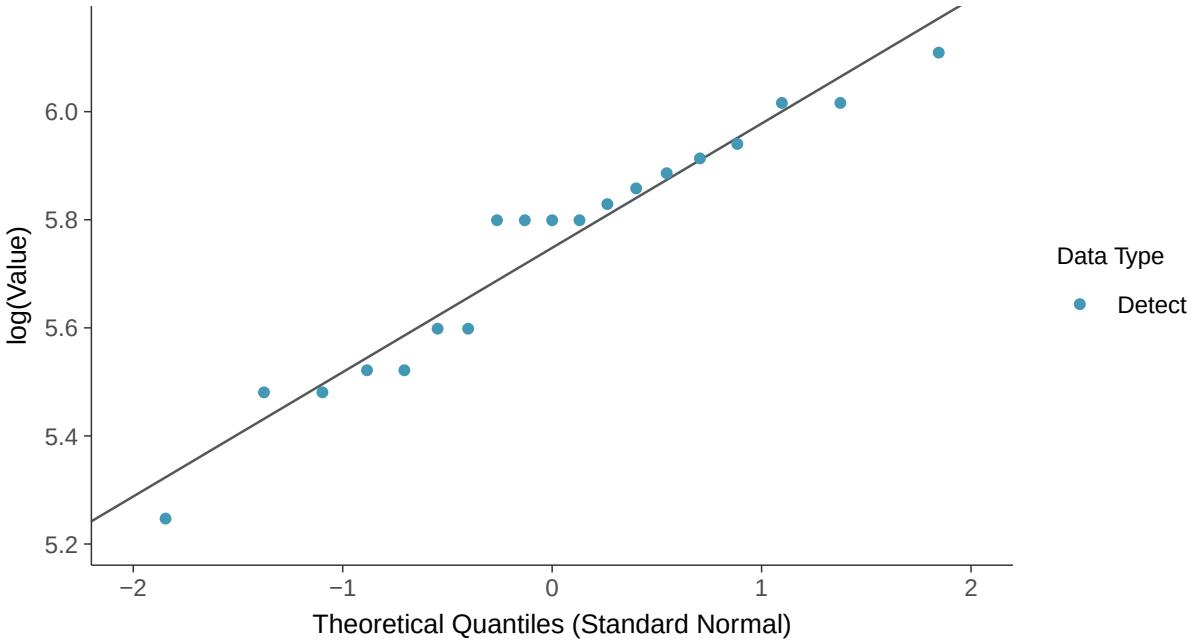
Normal Q-Q plot

Calcium, MW-18 (mg/L)



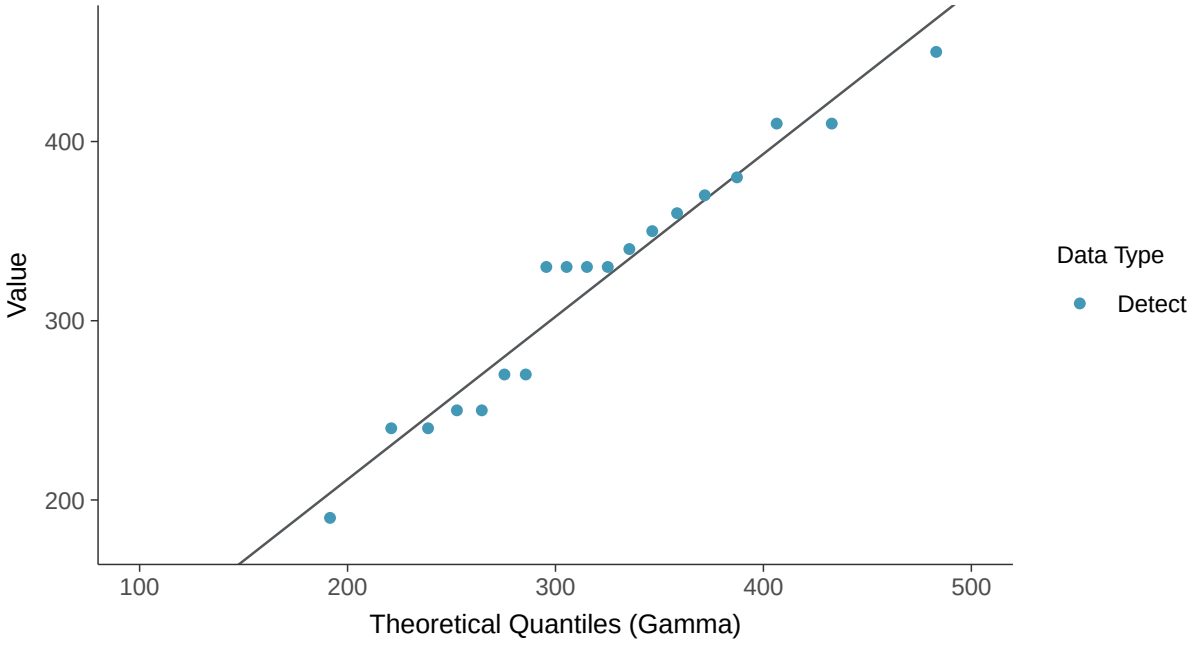
Lognormal Q-Q plot

Calcium, MW-18 (mg/L)



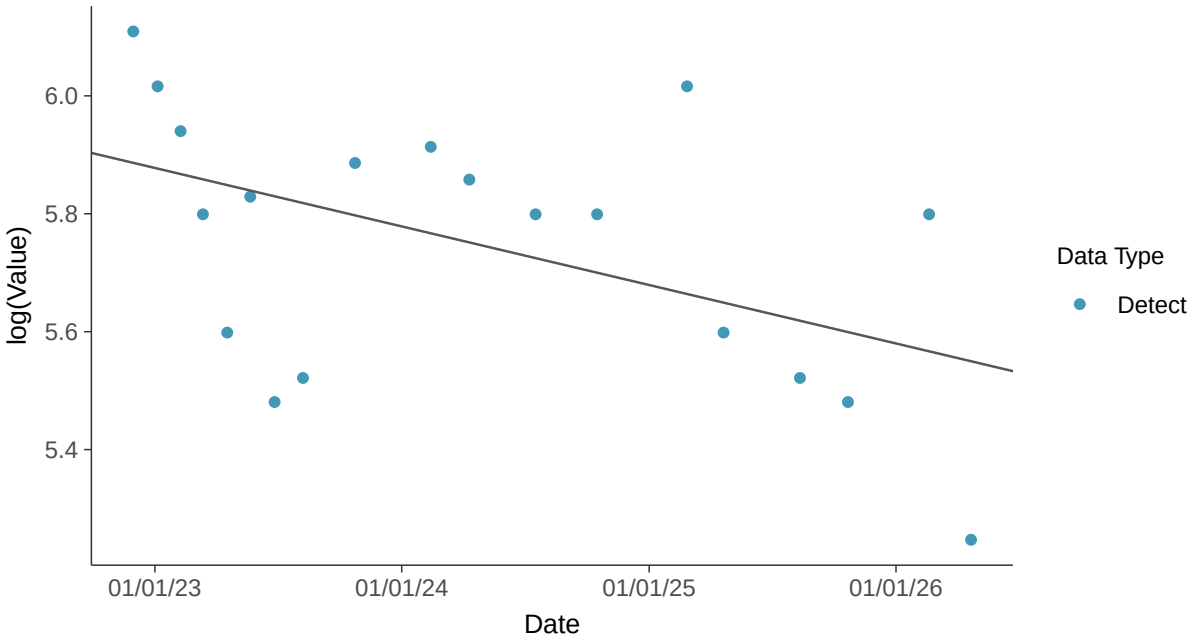
Gamma Q-Q plot

Calcium, MW-18 (mg/L)



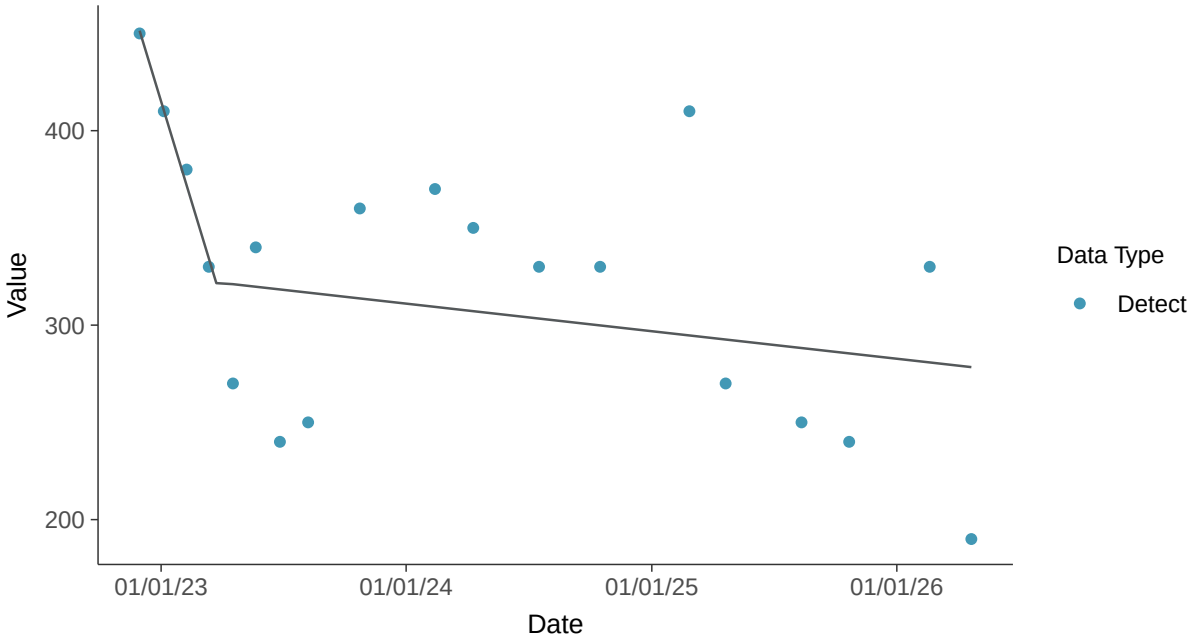
Trend Regression: Lognormal MLE

Calcium, MW-18 (mg/L)



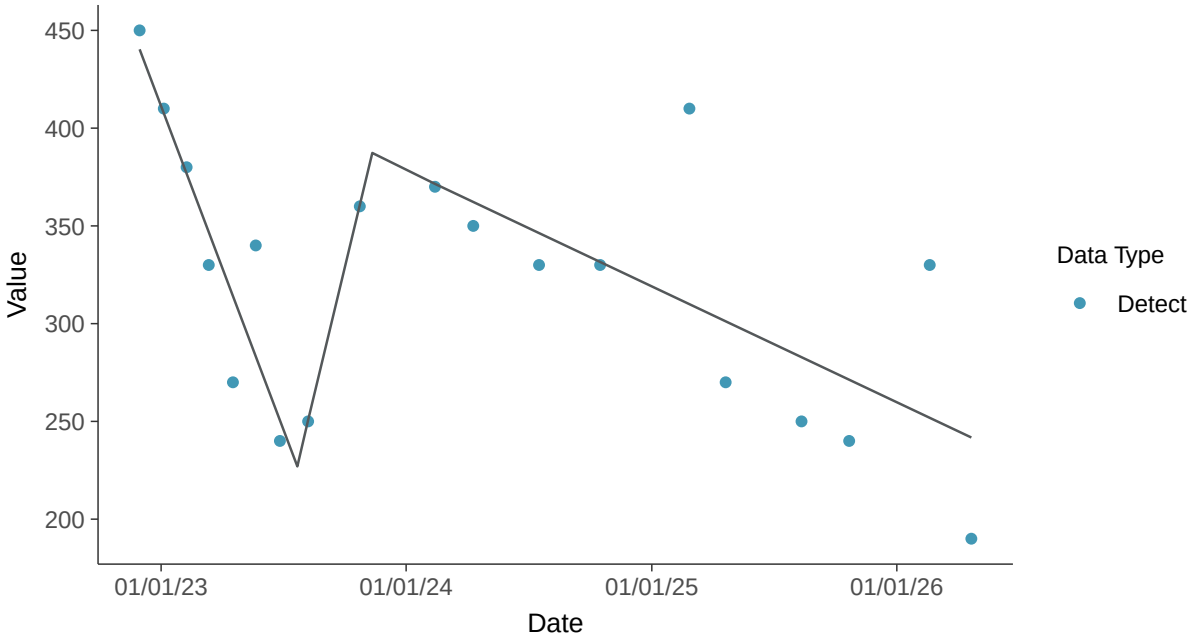
Trend Regression: Piecewise Linear-Linear

Calcium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-18 (mg/L)

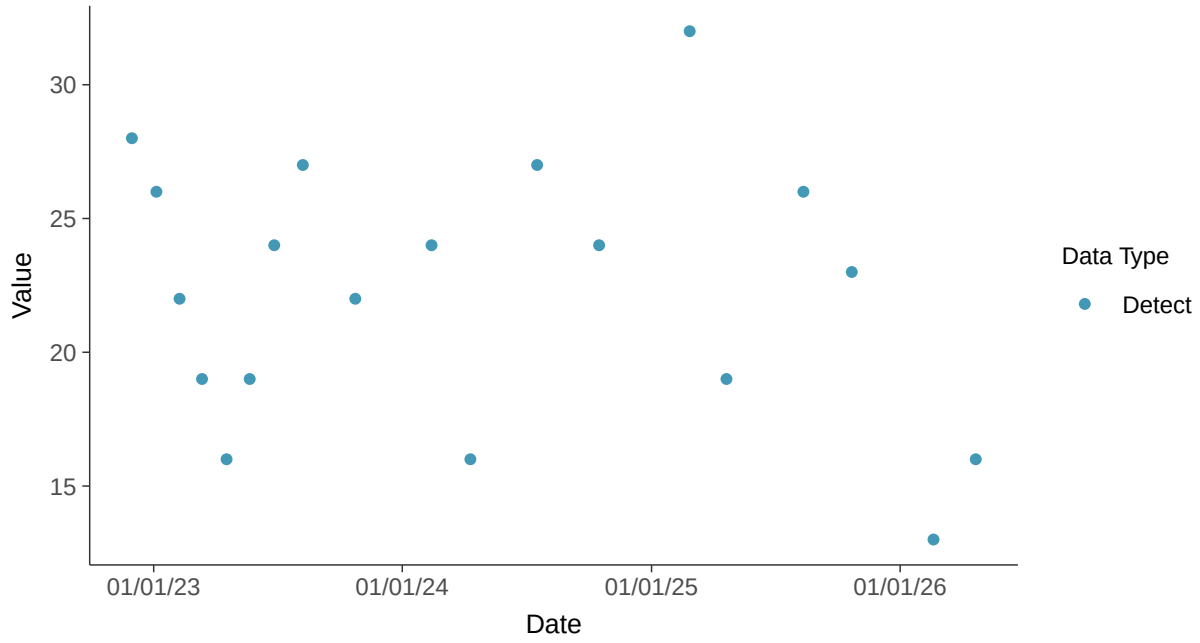


Appendix III: Chloride (as Cl), MW-18

ID: 28_1_3_108

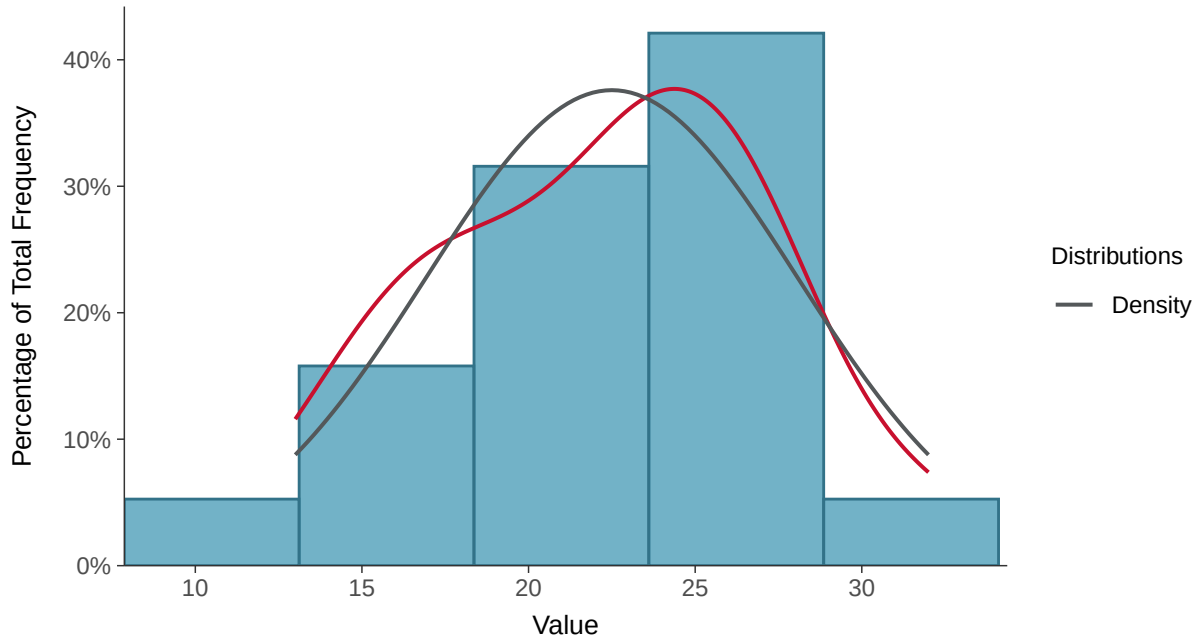
Scatter Plot

Chloride (as Cl), MW-18 (mg/L)



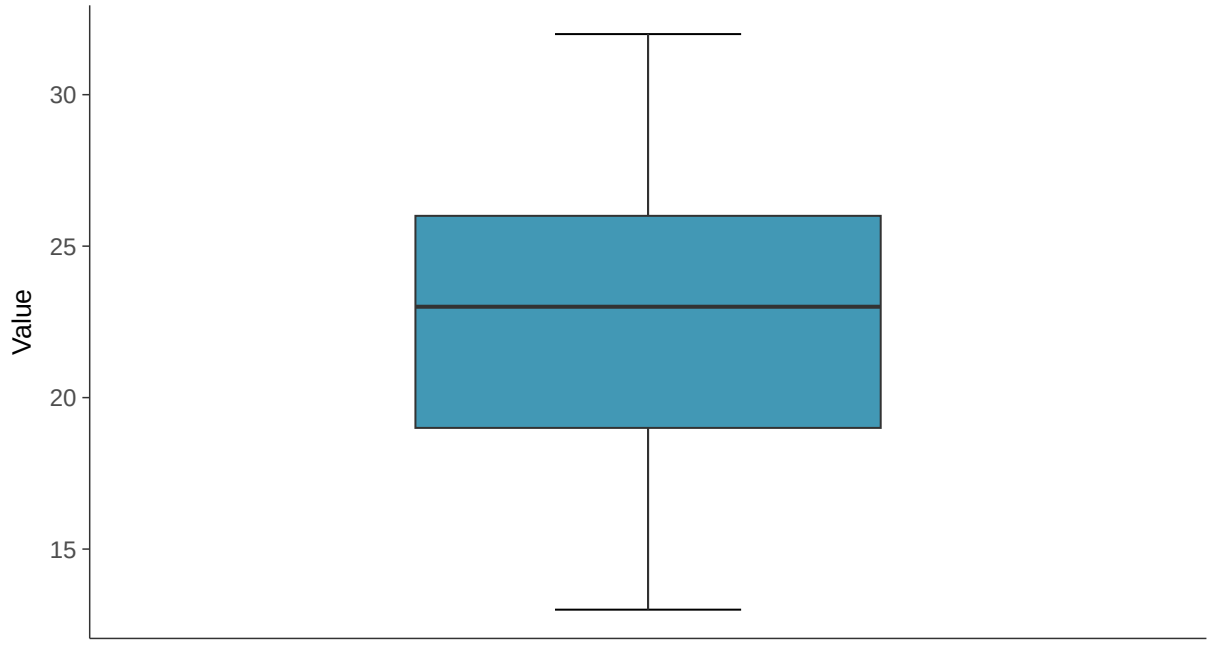
Histogram

Chloride (as Cl), MW-18 (mg/L)



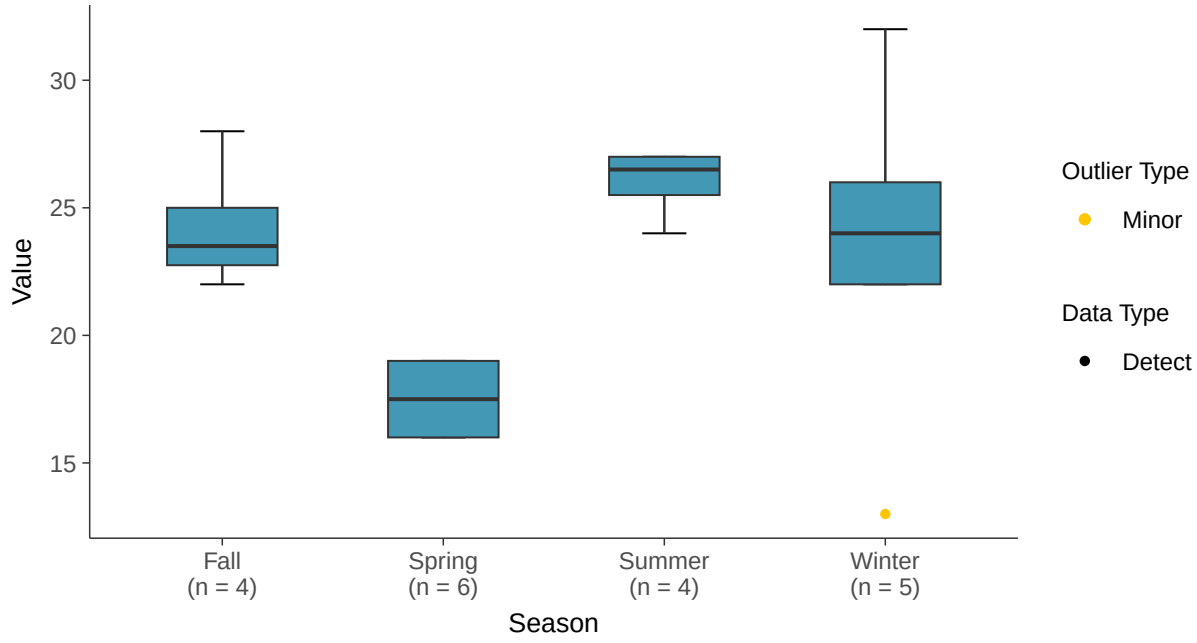
Boxplot

Chloride (as Cl), MW-18 (mg/L)



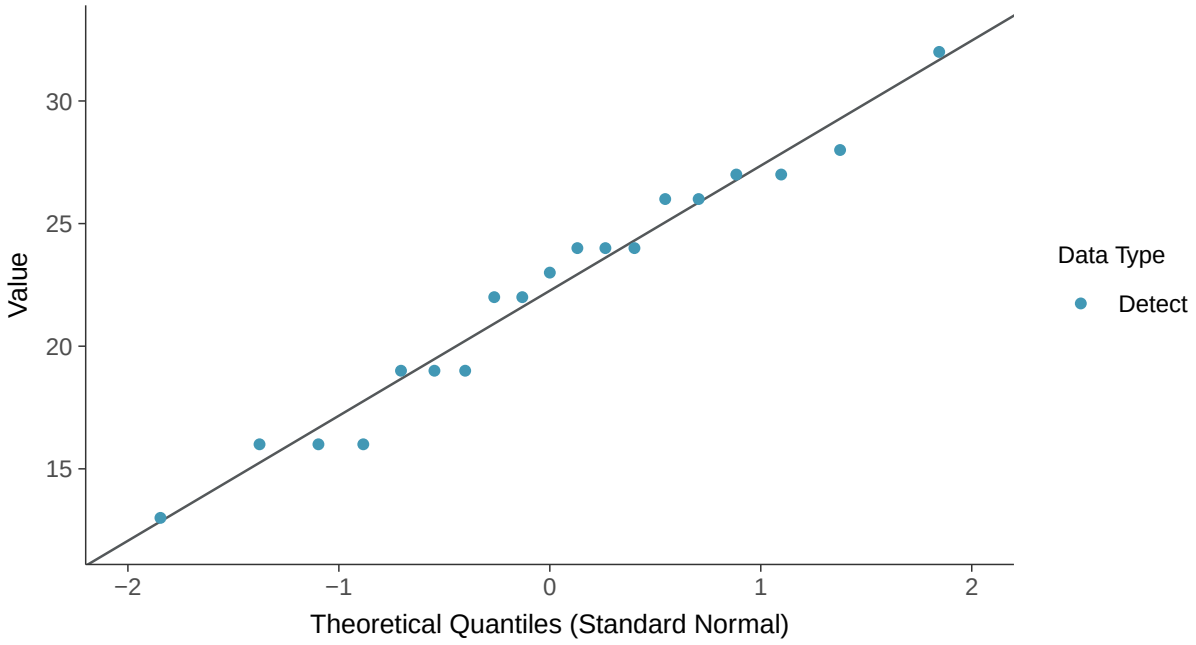
Boxplot by Season

Chloride (as Cl), MW-18 (mg/L)



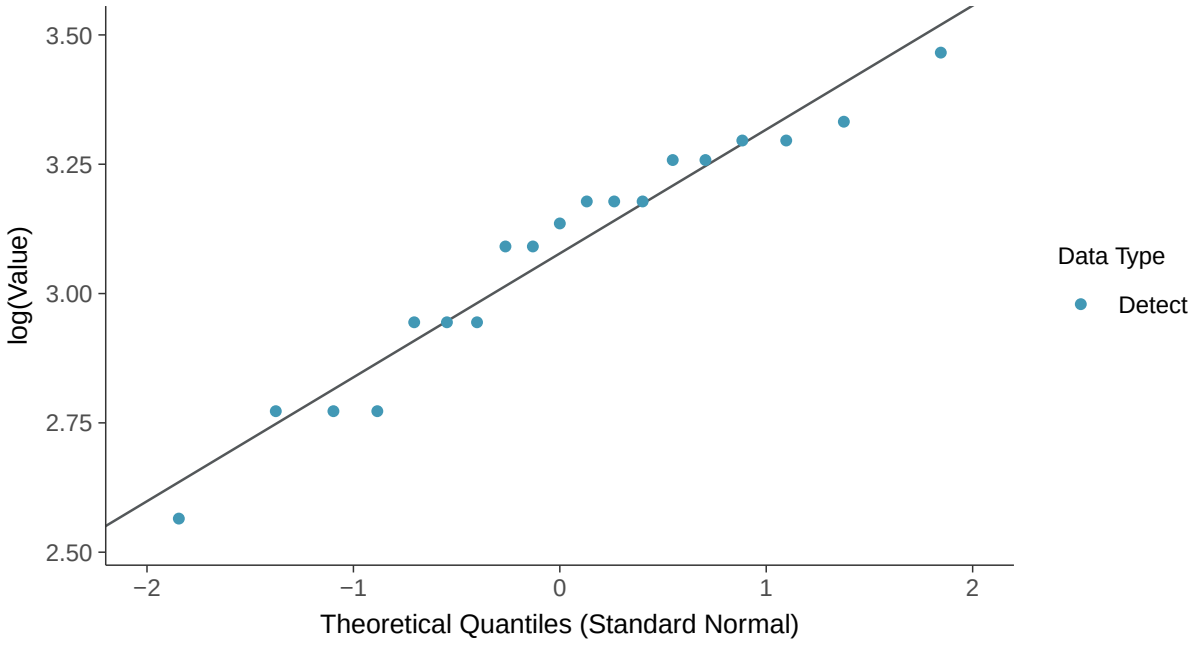
Normal Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



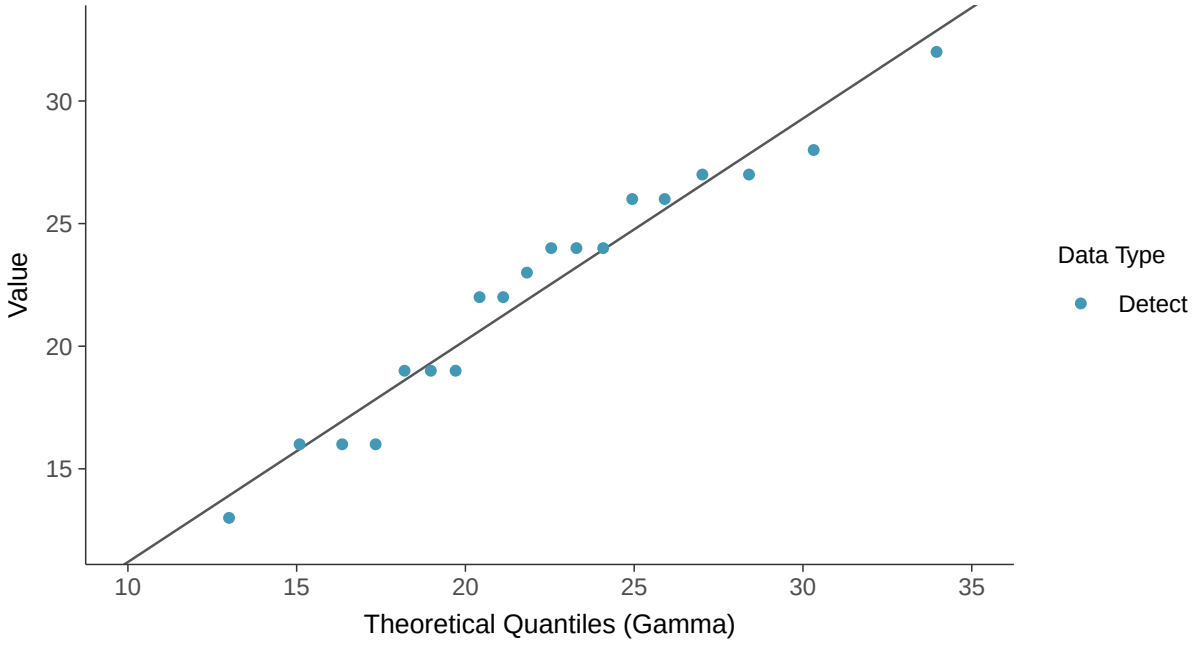
Lognormal Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



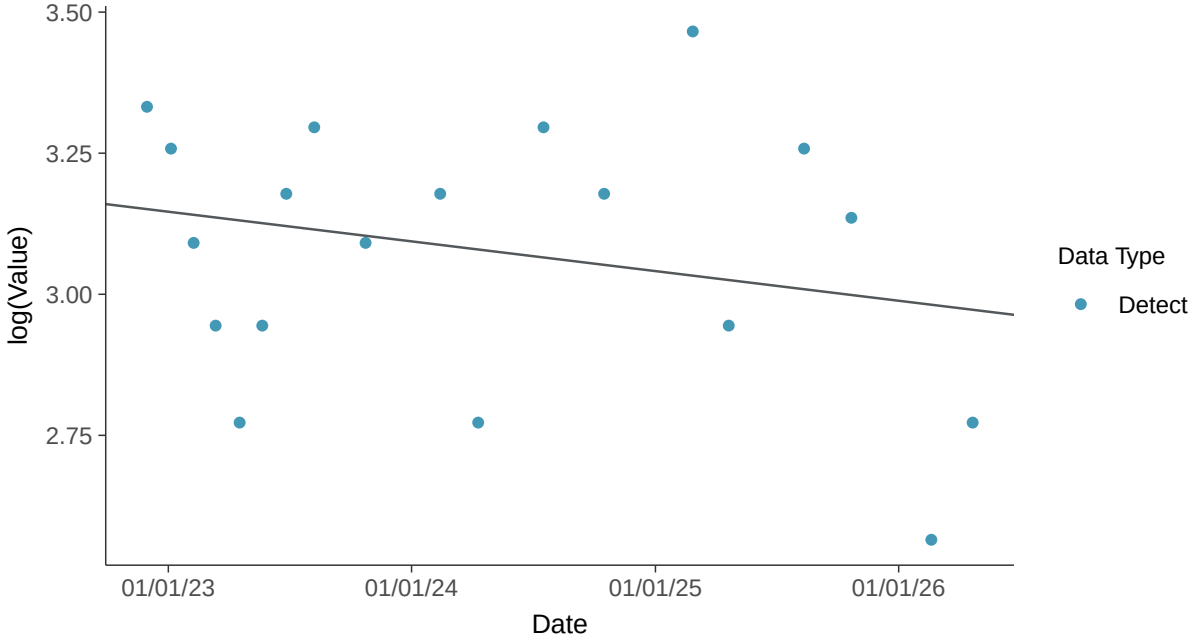
Gamma Q-Q plot

Chloride (as Cl), MW-18 (mg/L)



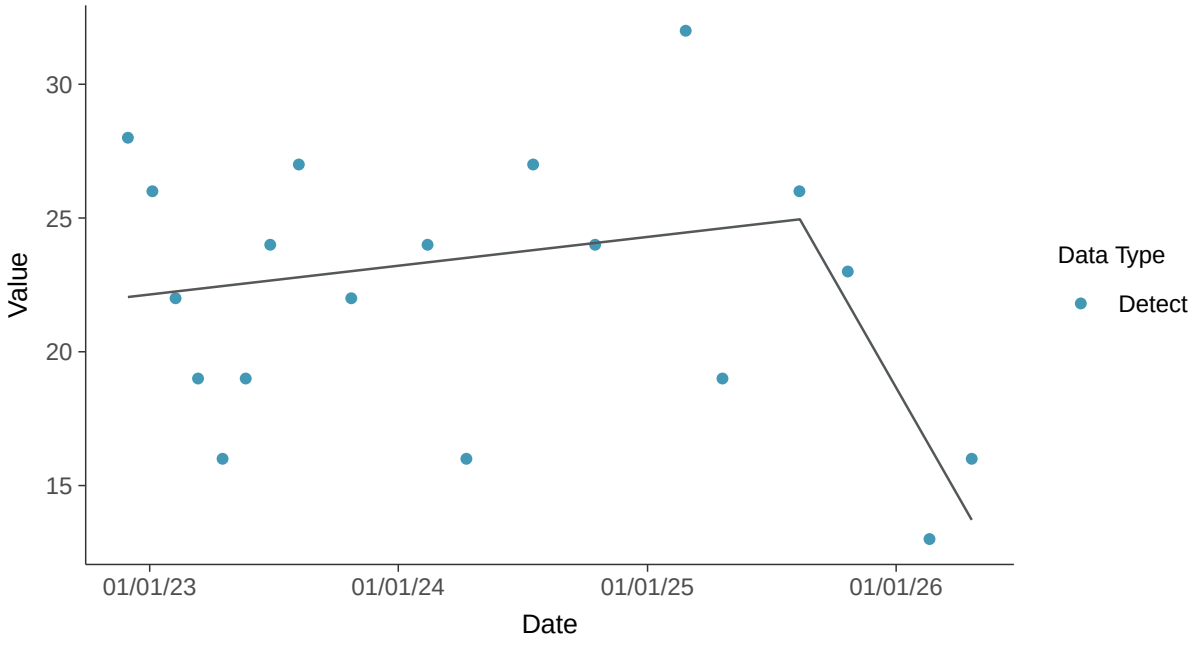
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-18 (mg/L)



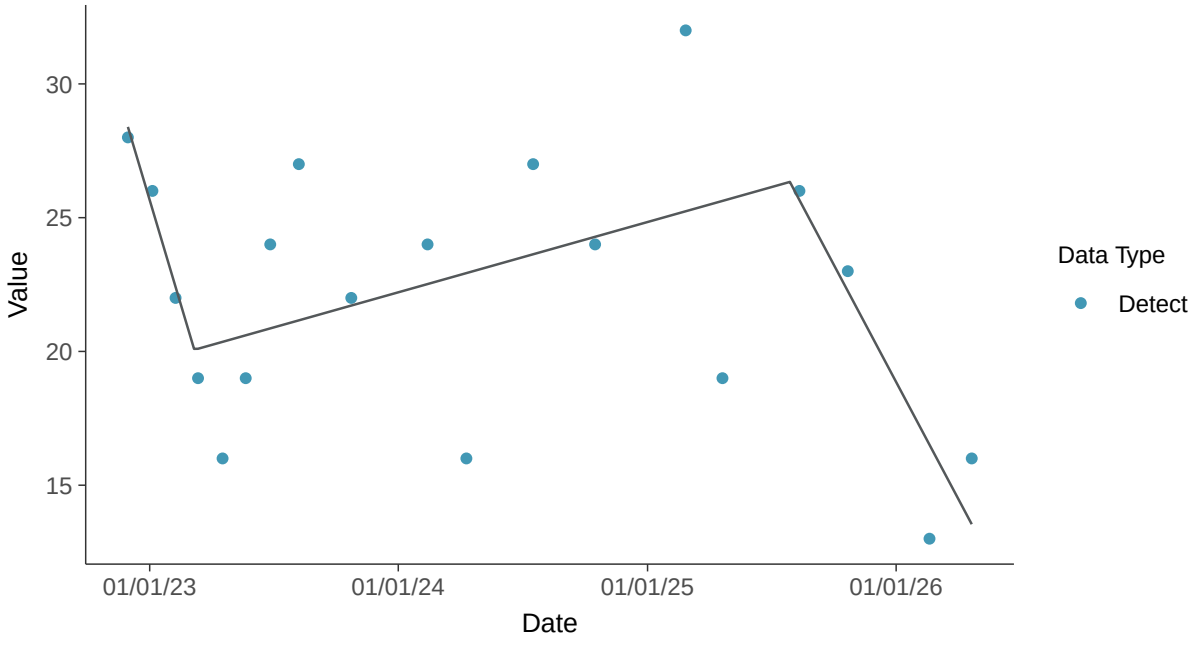
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-18 (mg/L)



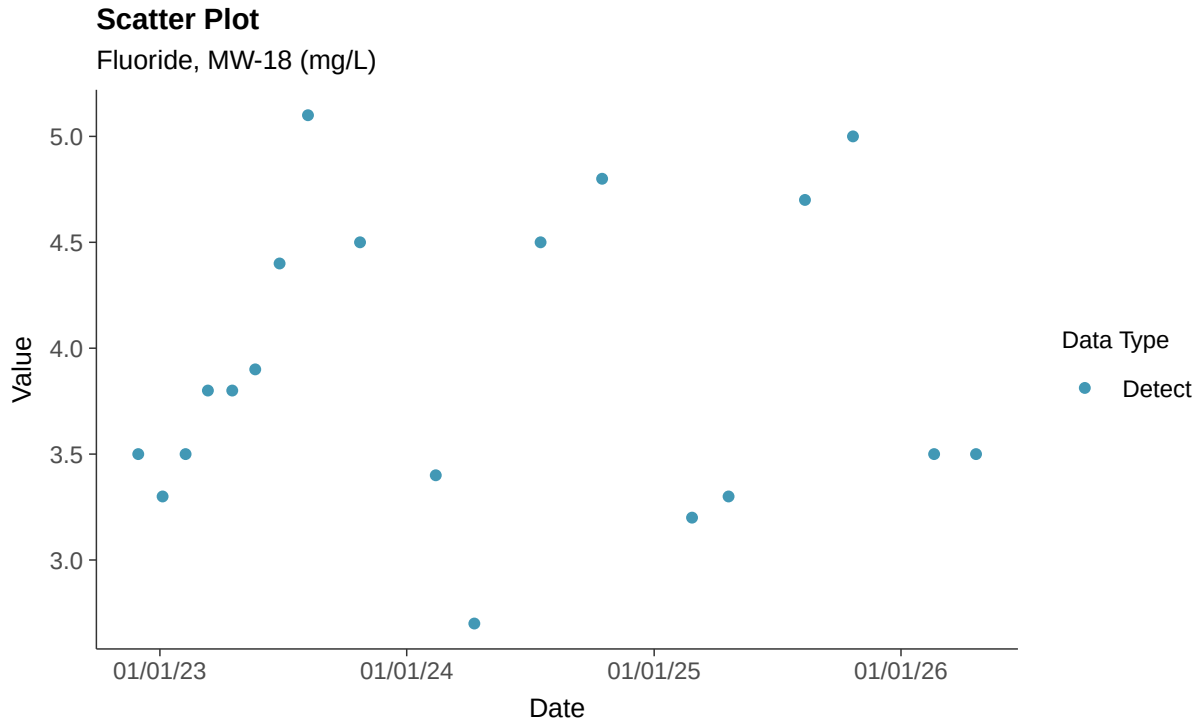
Trend Regression: Piecewise Linear-Linear-Linear

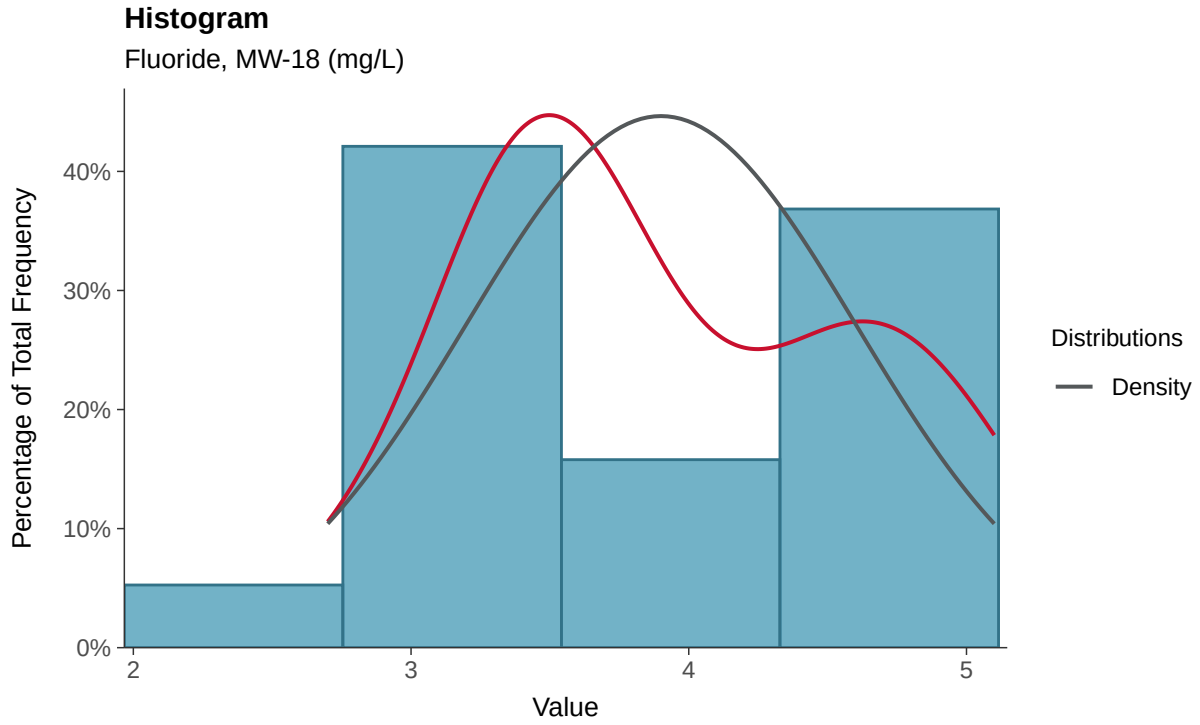
Chloride (as Cl), MW-18 (mg/L)



Appendix III: Fluoride, MW-18

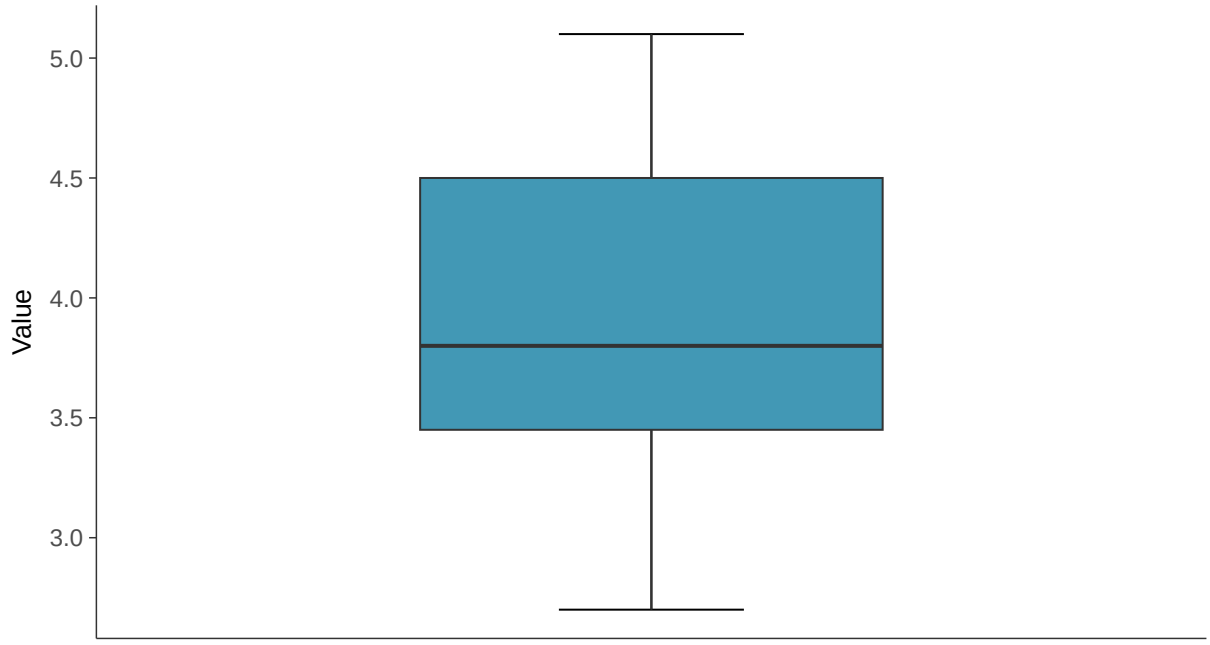
ID: 28_1_3_112





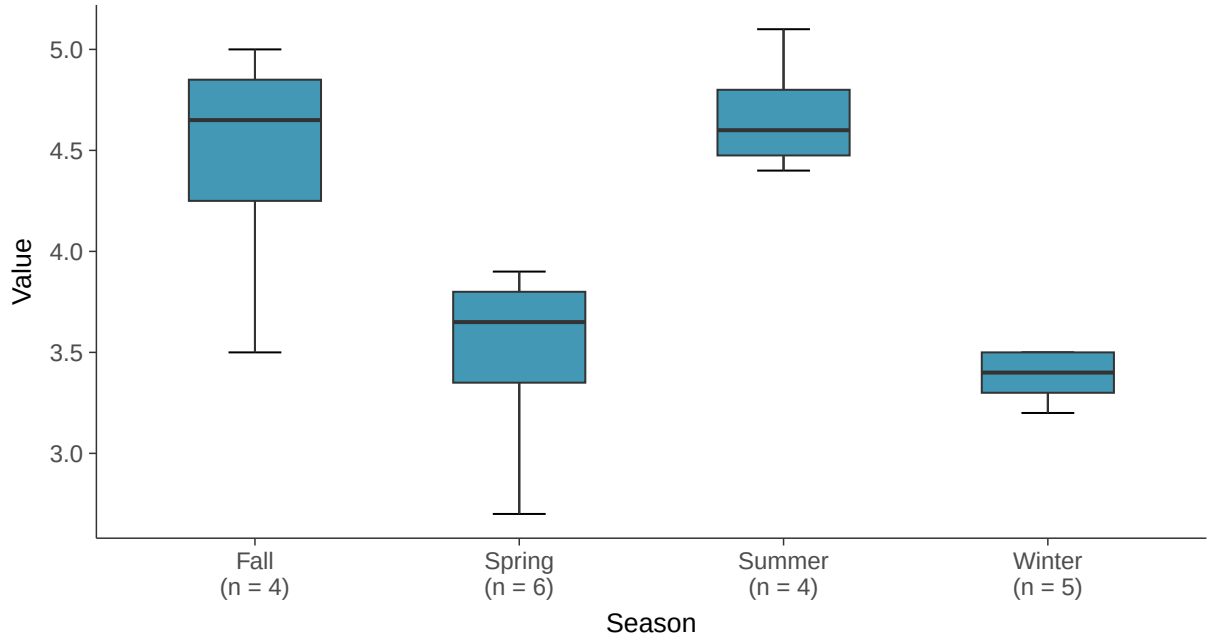
Boxplot

Fluoride, MW-18 (mg/L)



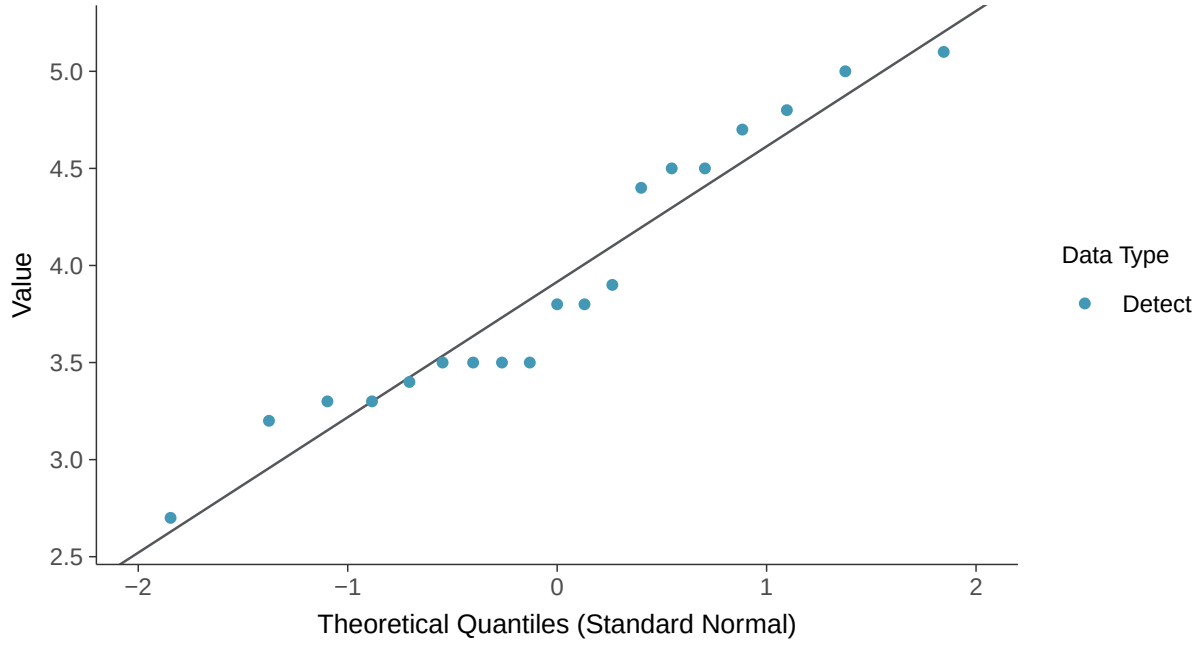
Boxplot by Season

Fluoride, MW-18 (mg/L)



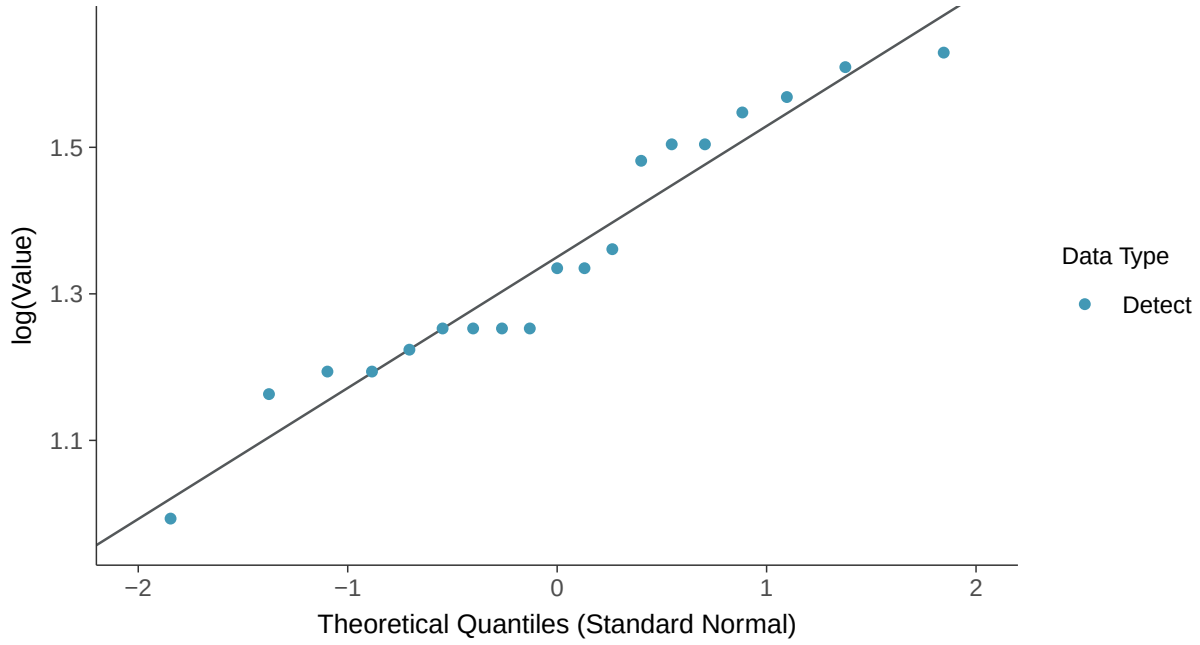
Normal Q-Q plot

Fluoride, MW-18 (mg/L)



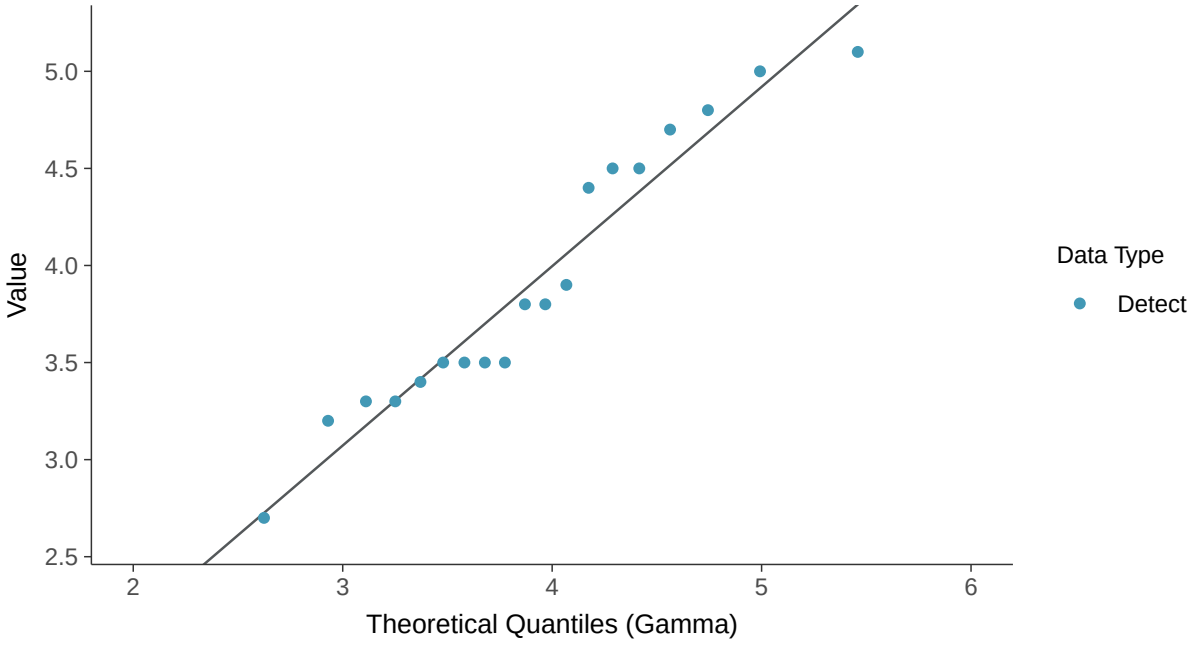
Lognormal Q-Q plot

Fluoride, MW-18 (mg/L)



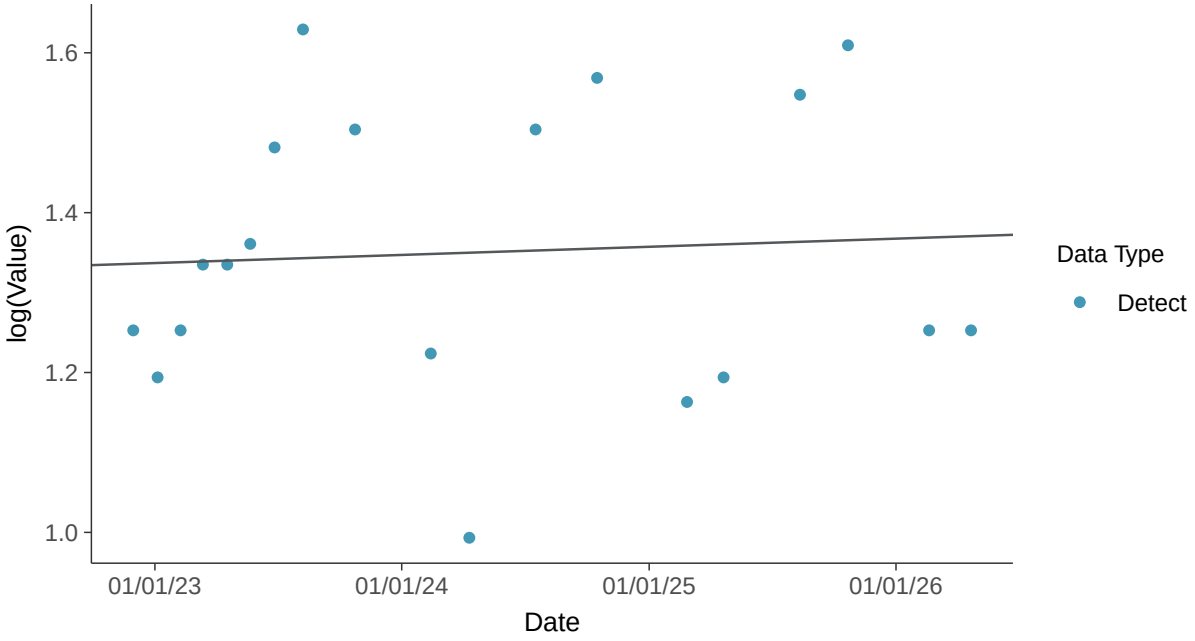
Gamma Q-Q plot

Fluoride, MW-18 (mg/L)



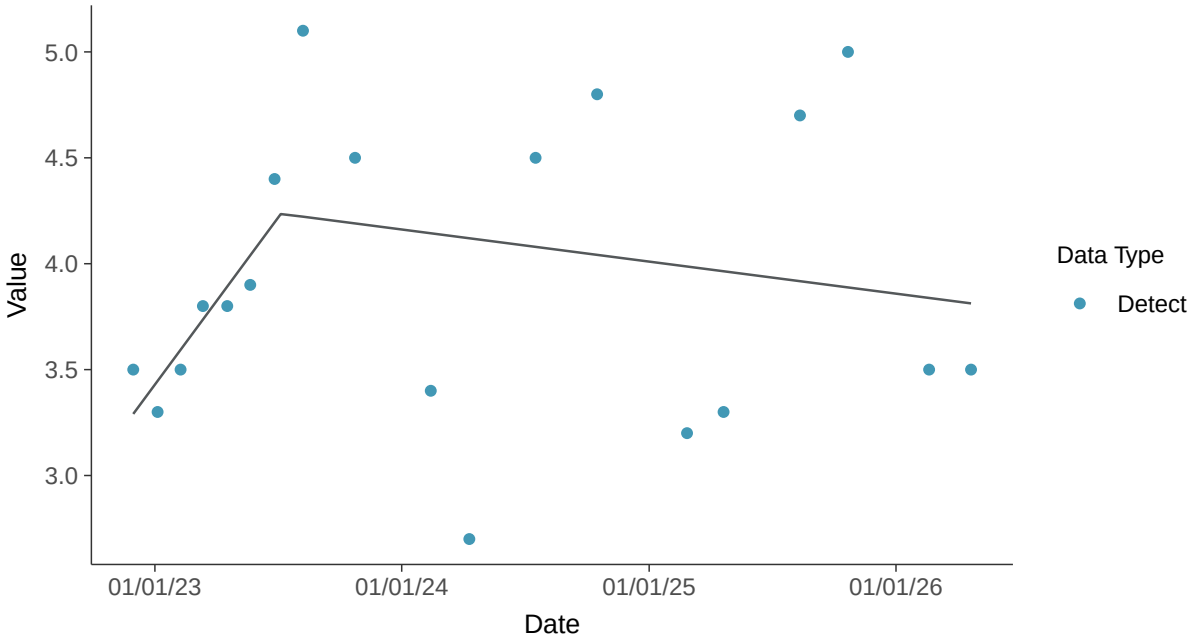
Trend Regression: Lognormal MLE

Fluoride, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride, MW-18 (mg/L)

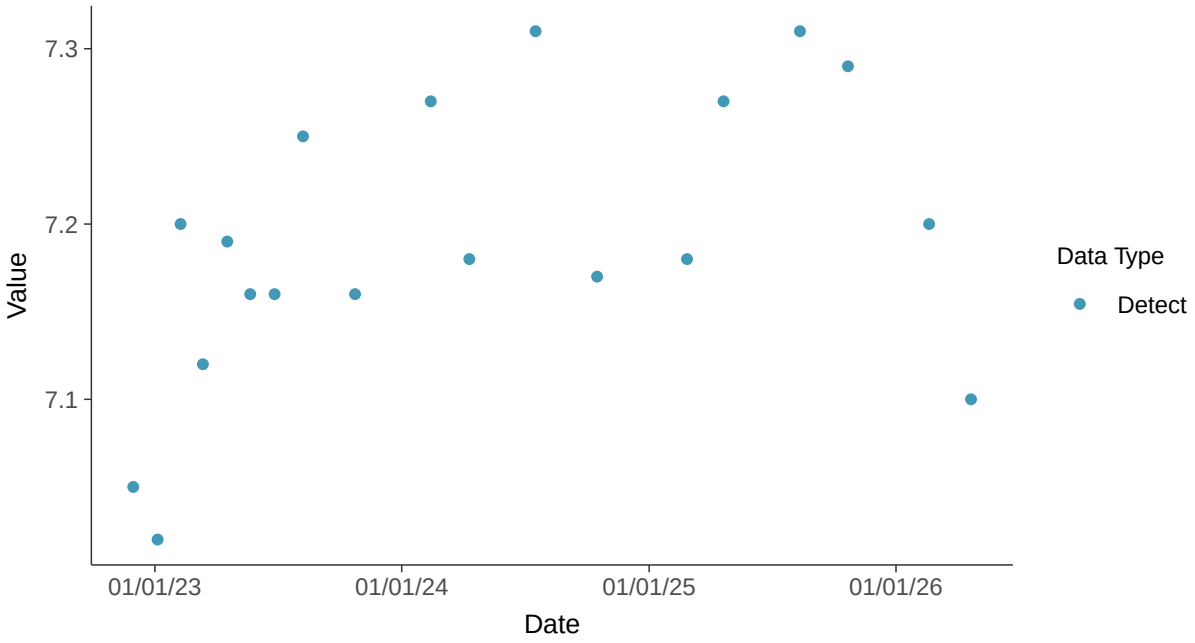


Appendix III: pH (field), MW-18

ID: 28_1_3_120

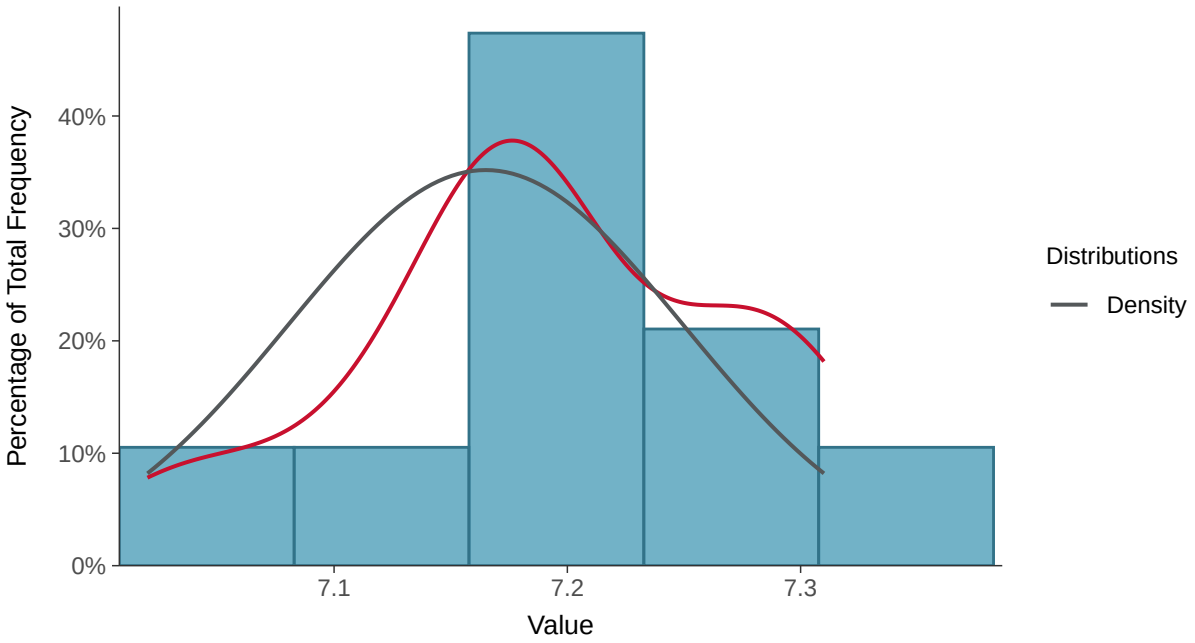
Scatter Plot

pH (field), MW-18 (su)



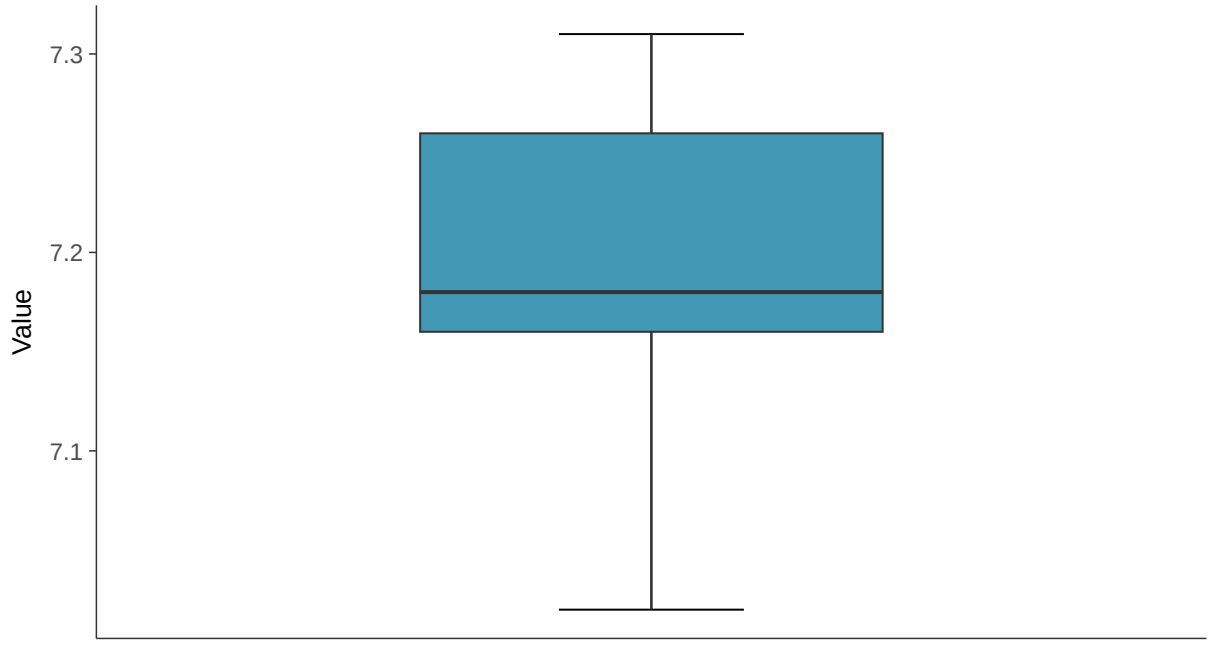
Histogram

pH (field), MW-18 (su)



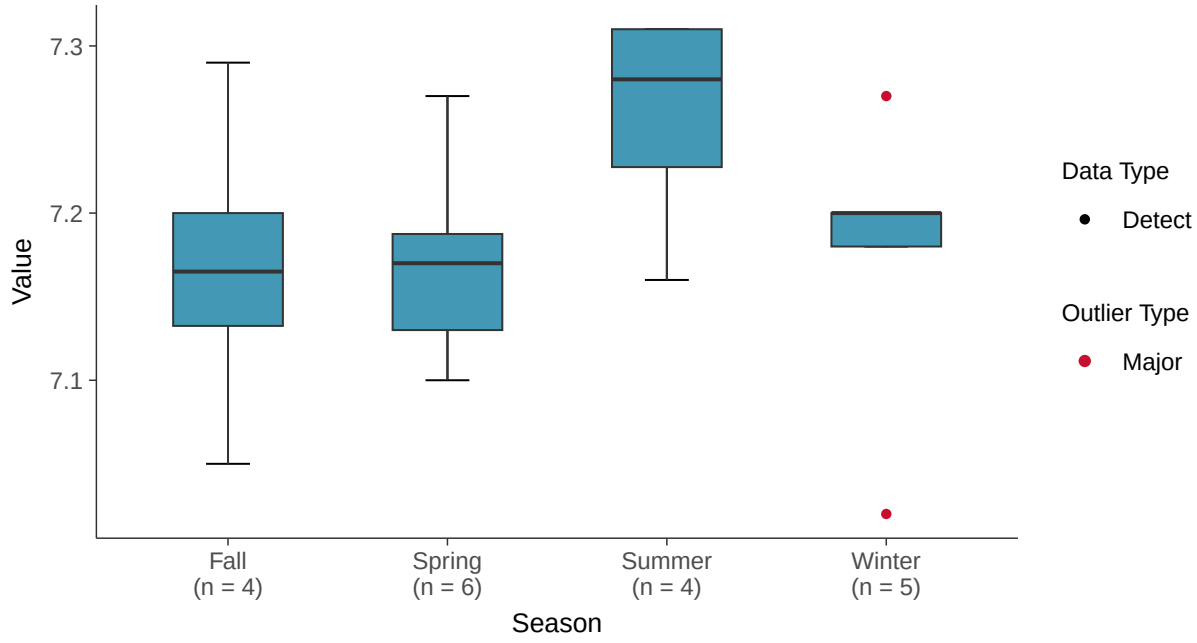
Boxplot

pH (field), MW-18 (su)



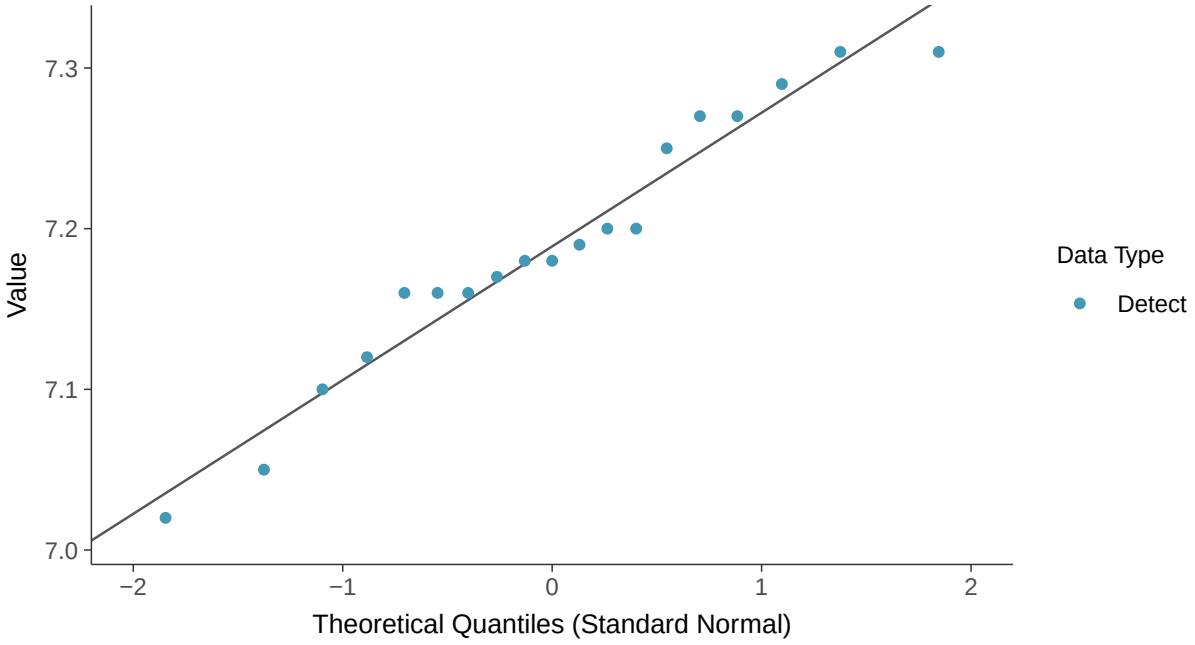
Boxplot by Season

pH (field), MW-18 (su)



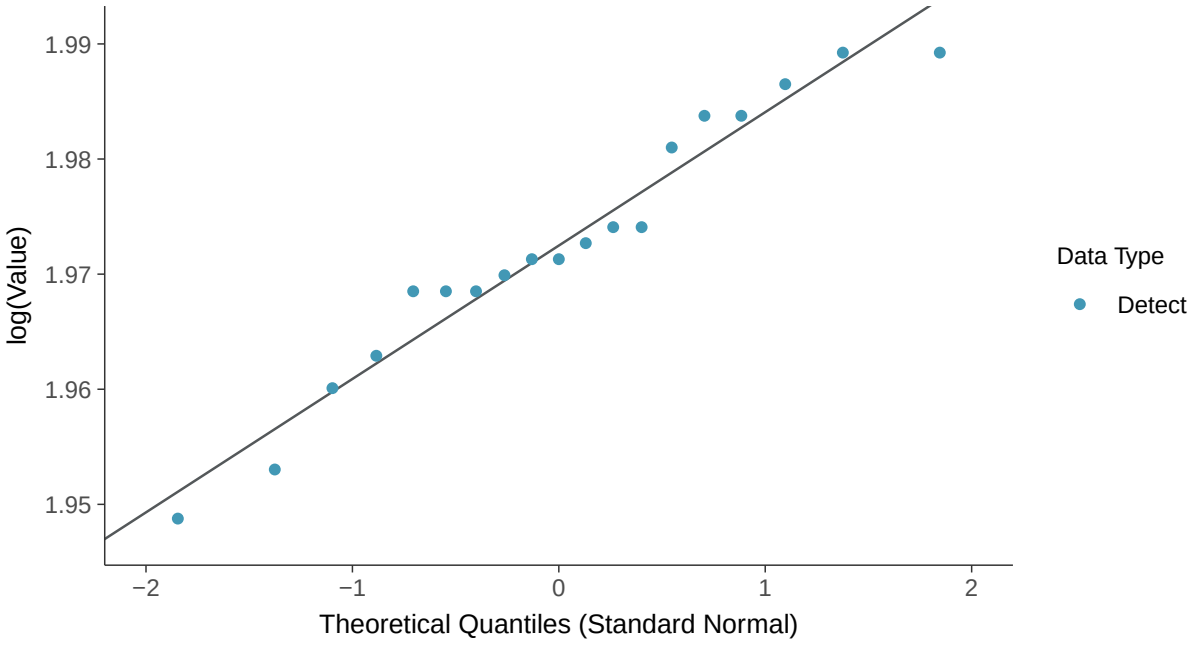
Normal Q-Q plot

pH (field), MW-18 (su)



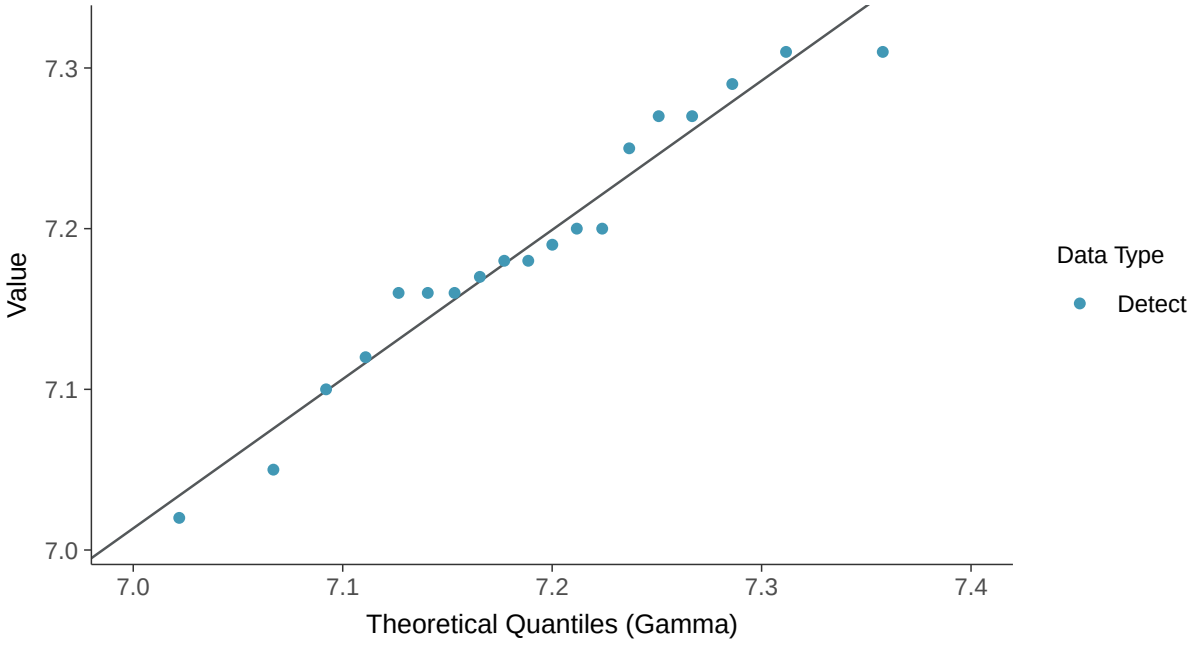
Lognormal Q-Q plot

pH (field), MW-18 (su)



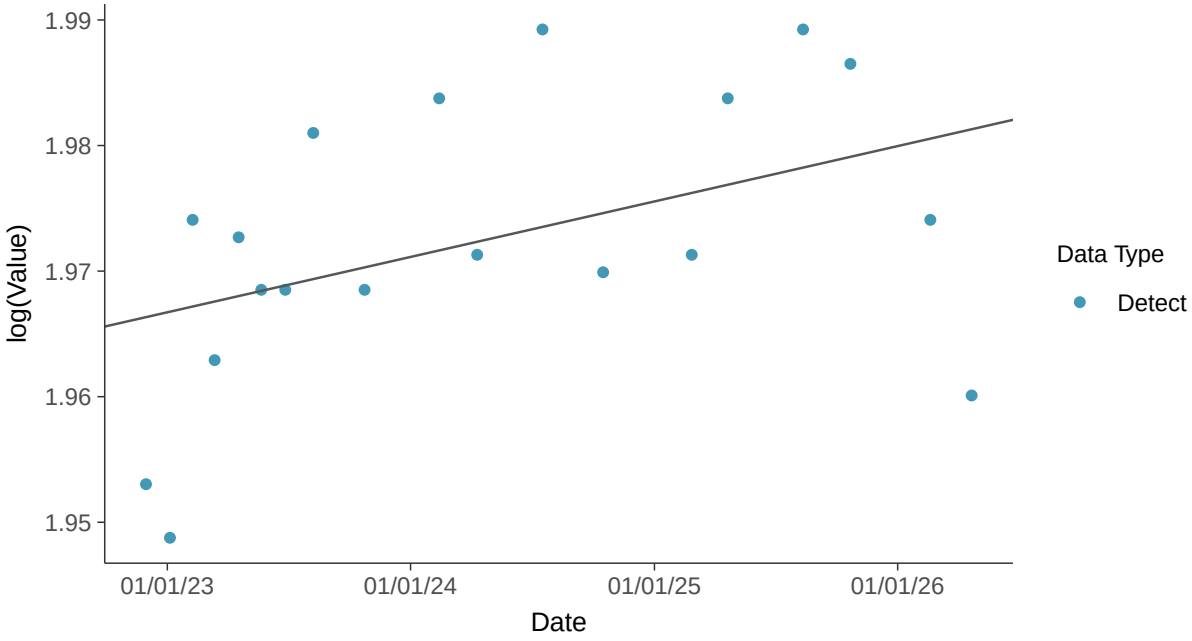
Gamma Q-Q plot

pH (field), MW-18 (su)



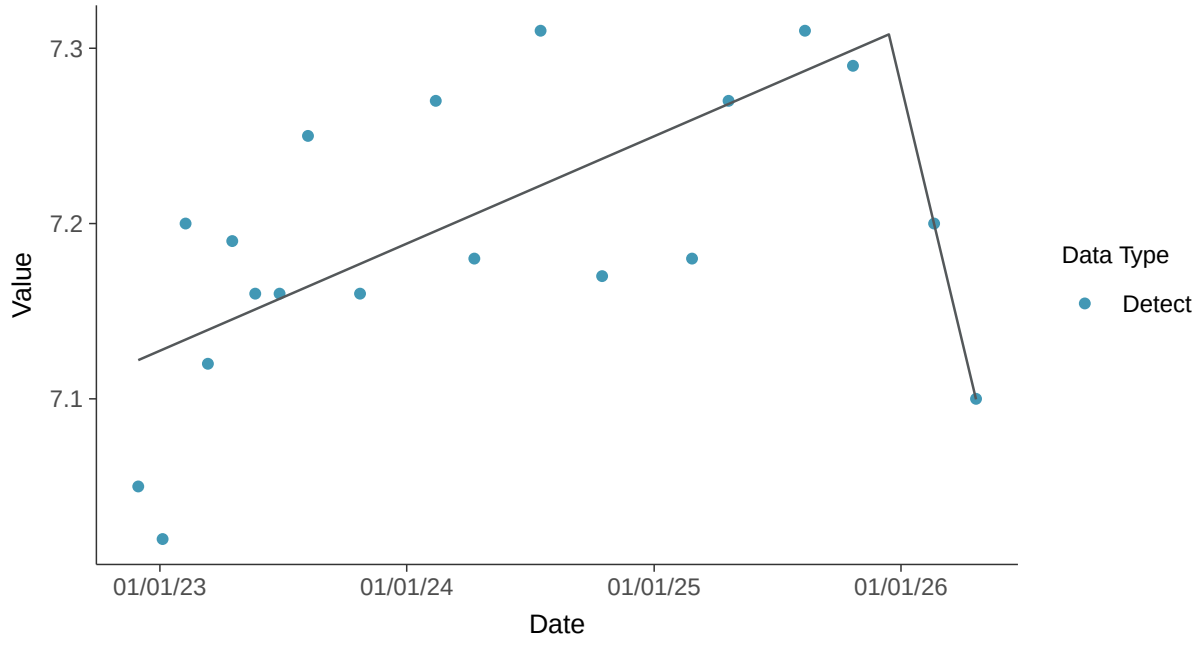
Trend Regression: Lognormal MLE

pH (field), MW-18 (su)



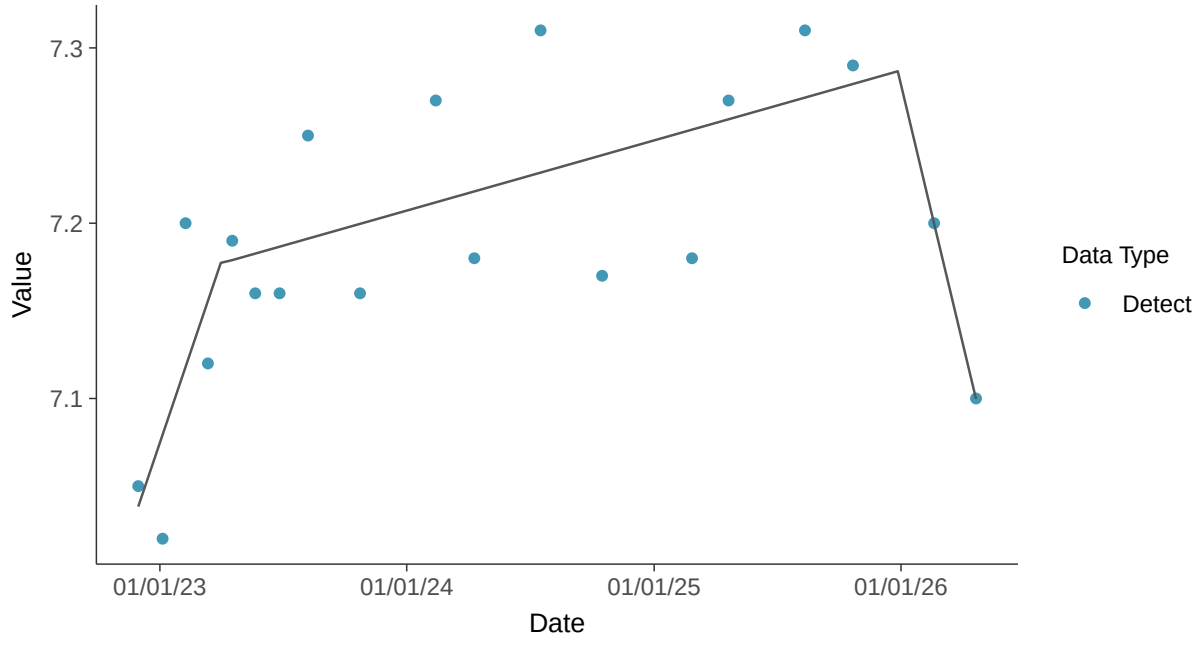
Trend Regression: Piecewise Linear-Linear

pH (field), MW-18 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-18 (su)

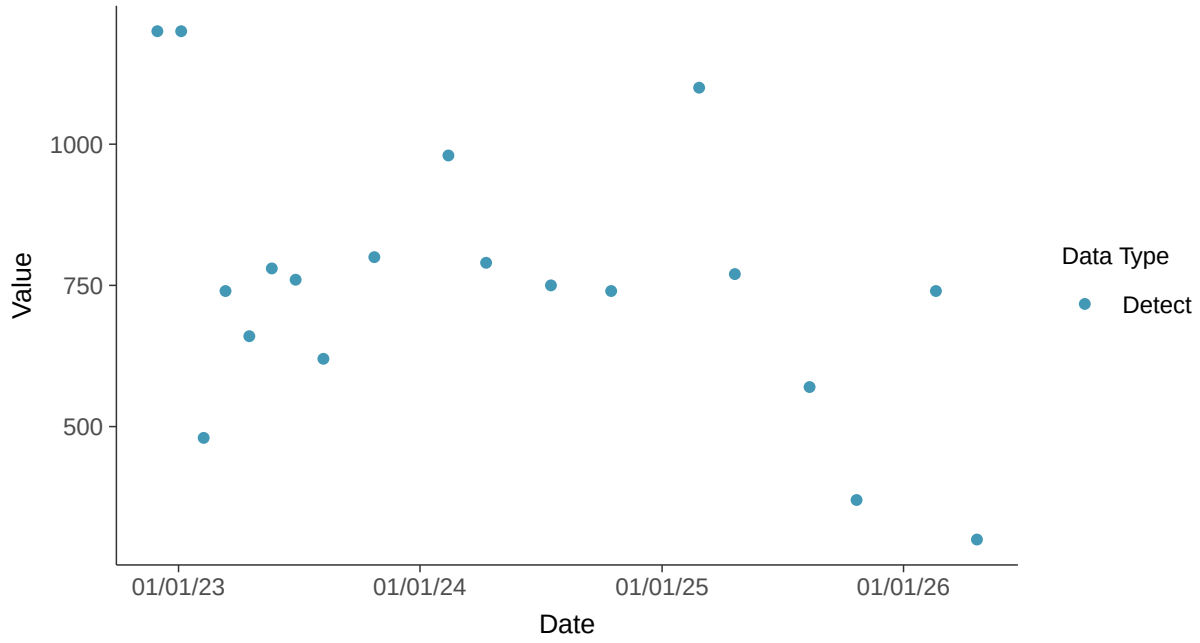


Appendix III: Sulfate (as SO4), MW-18

ID: 28_1_3_124

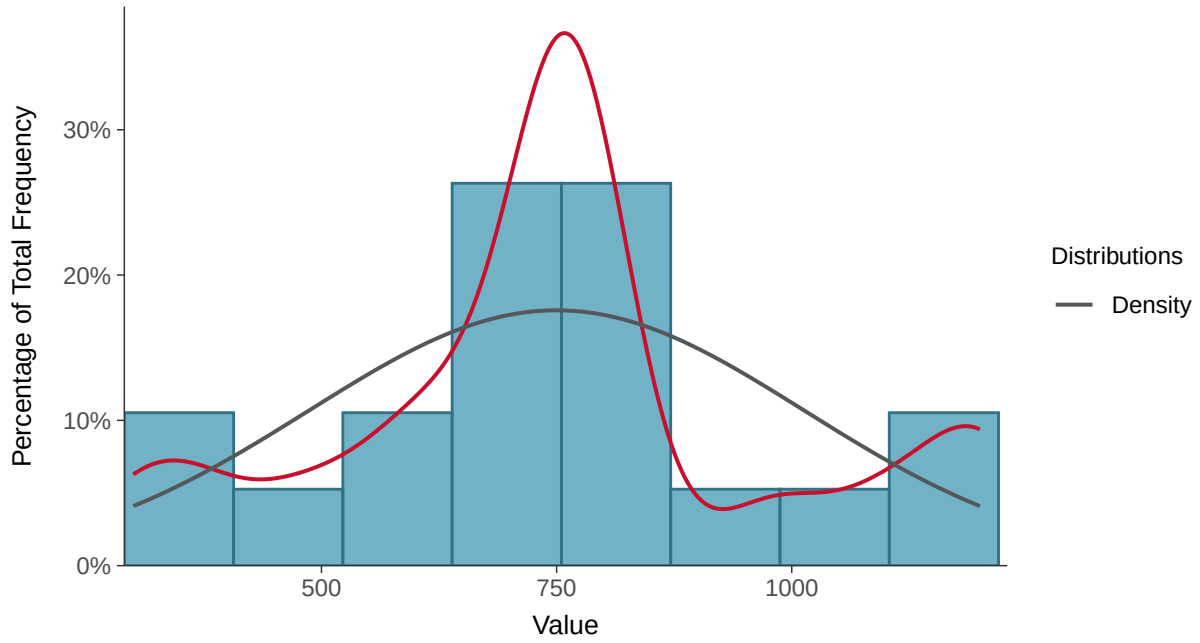
Scatter Plot

Sulfate (as SO4), MW-18 (mg/L)



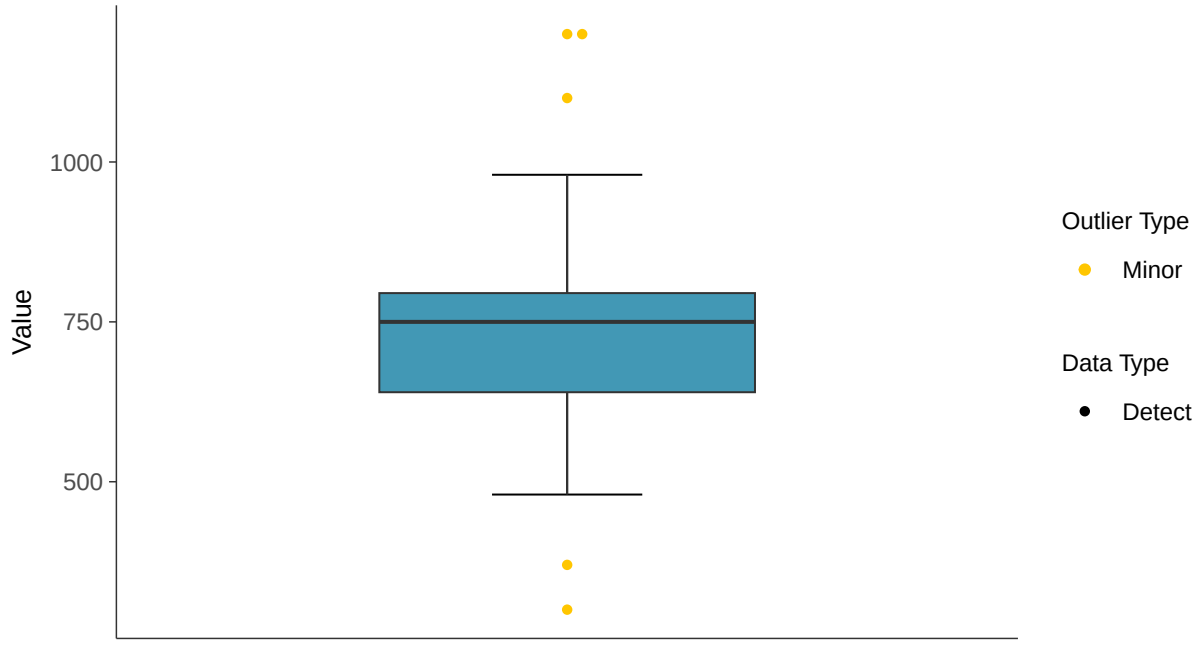
Histogram

Sulfate (as SO4), MW-18 (mg/L)



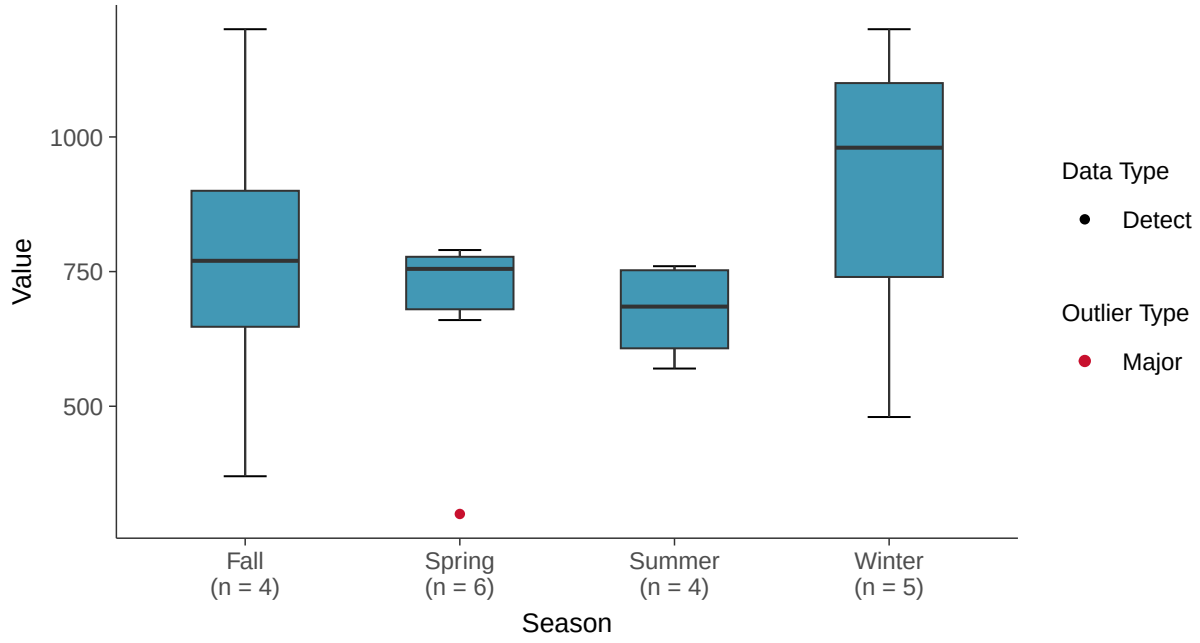
Boxplot

Sulfate (as SO4), MW-18 (mg/L)



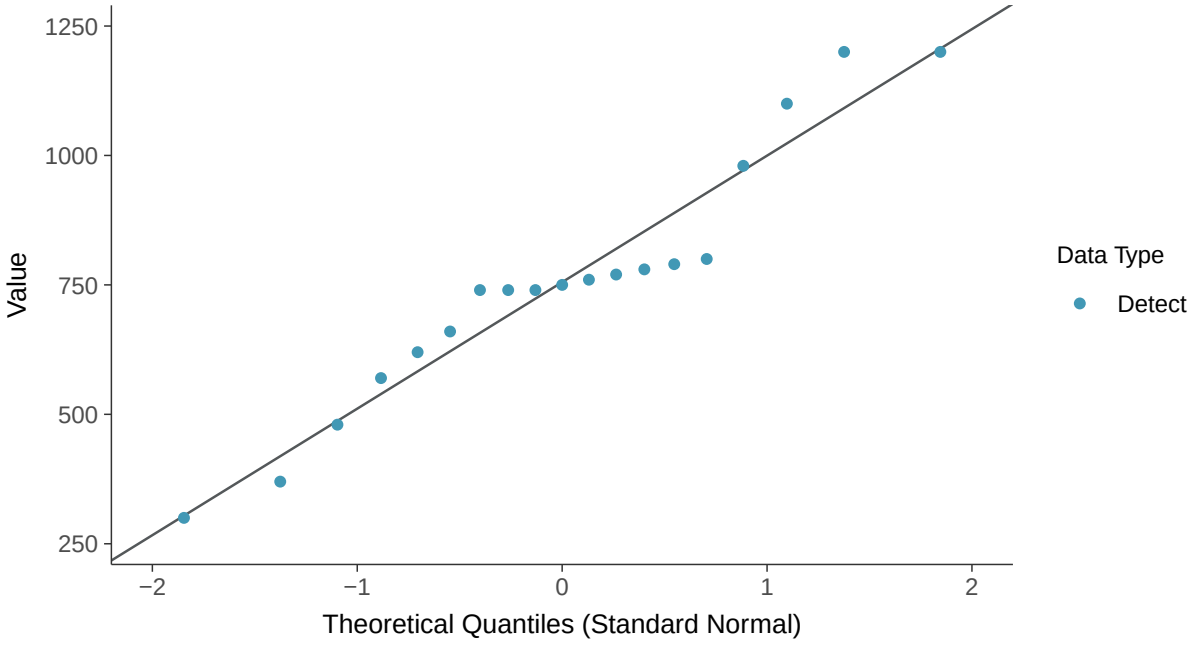
Boxplot by Season

Sulfate (as SO4), MW-18 (mg/L)



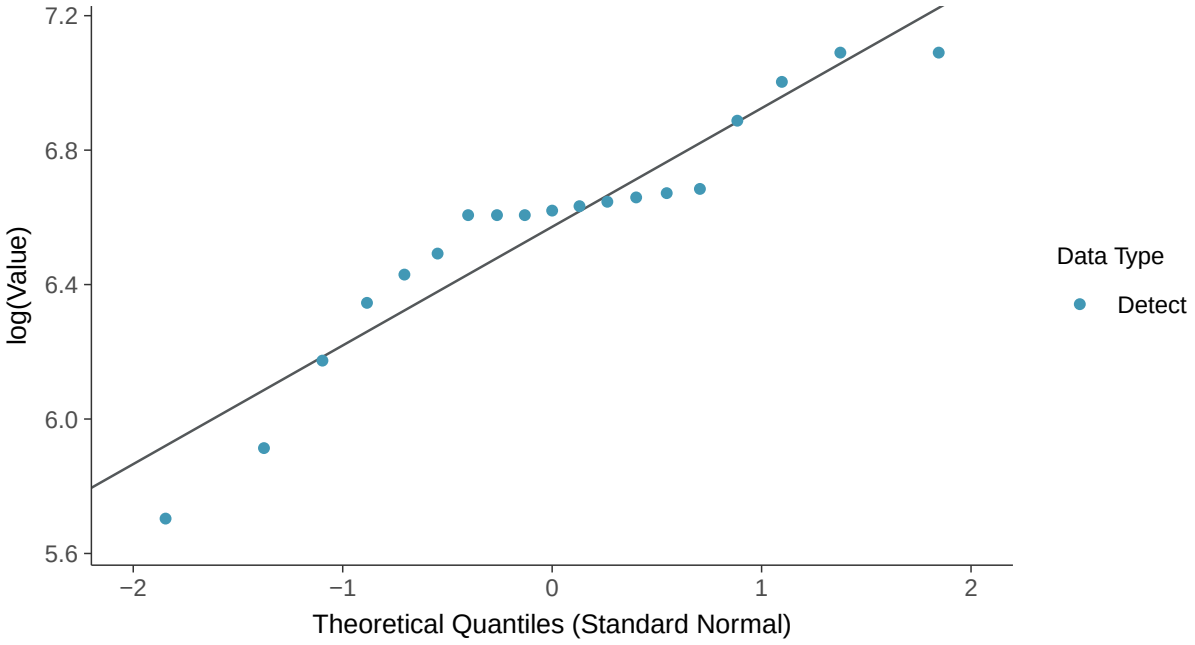
Normal Q-Q plot

Sulfate (as SO4), MW-18 (mg/L)



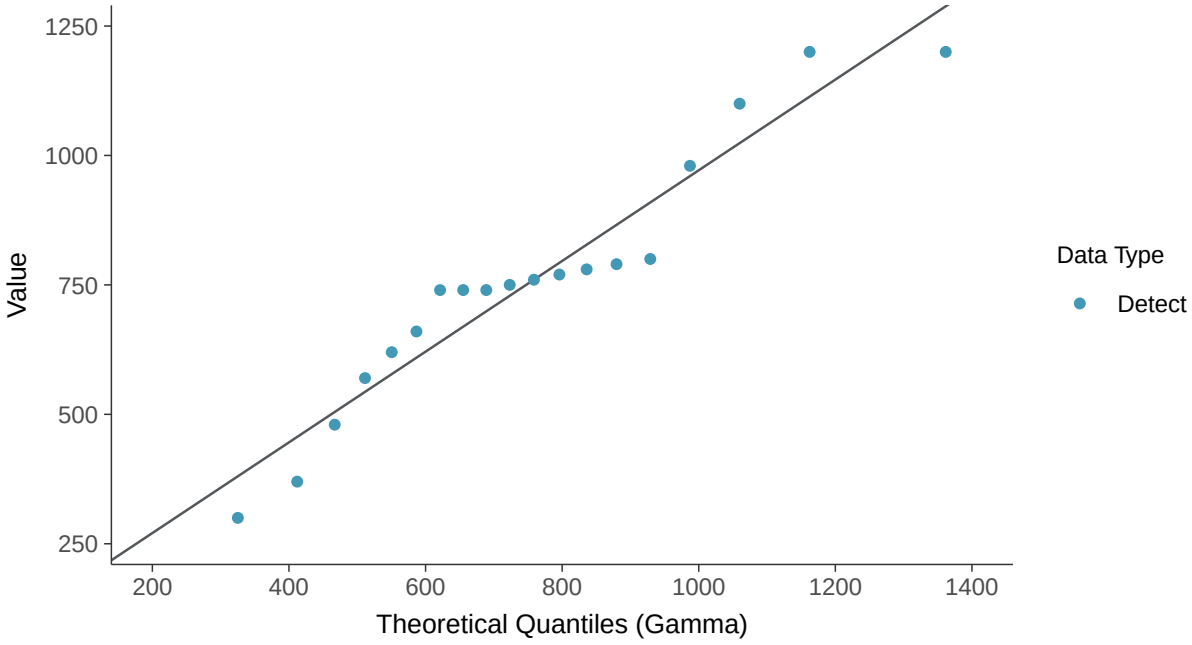
Lognormal Q-Q plot

Sulfate (as SO4), MW-18 (mg/L)



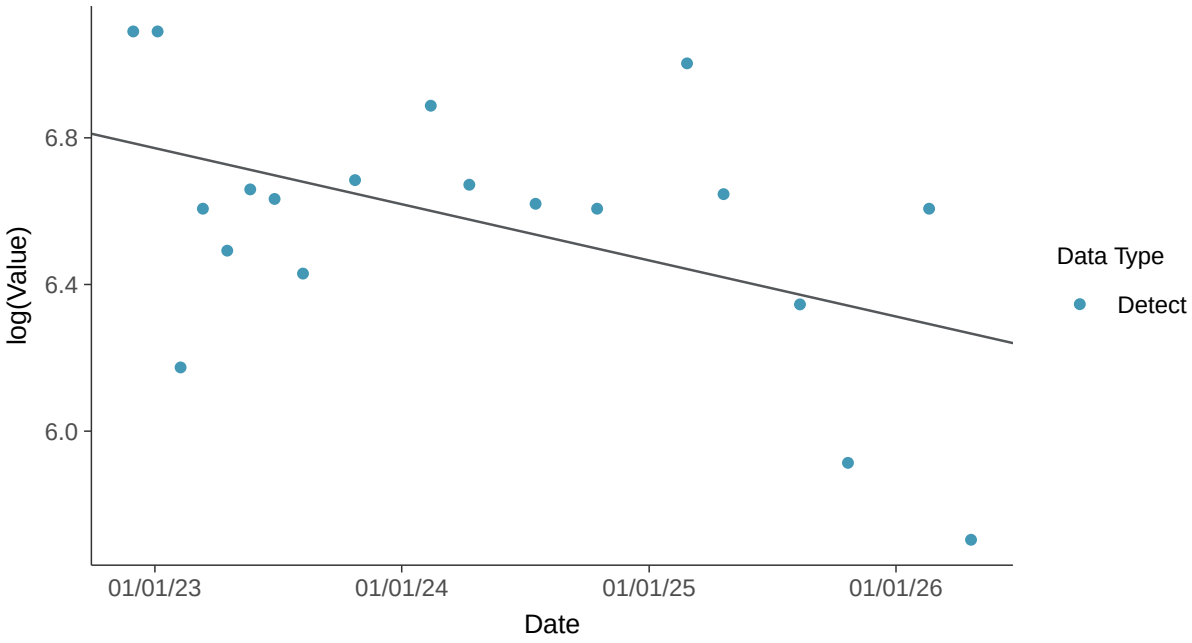
Gamma Q-Q plot

Sulfate (as SO4), MW-18 (mg/L)



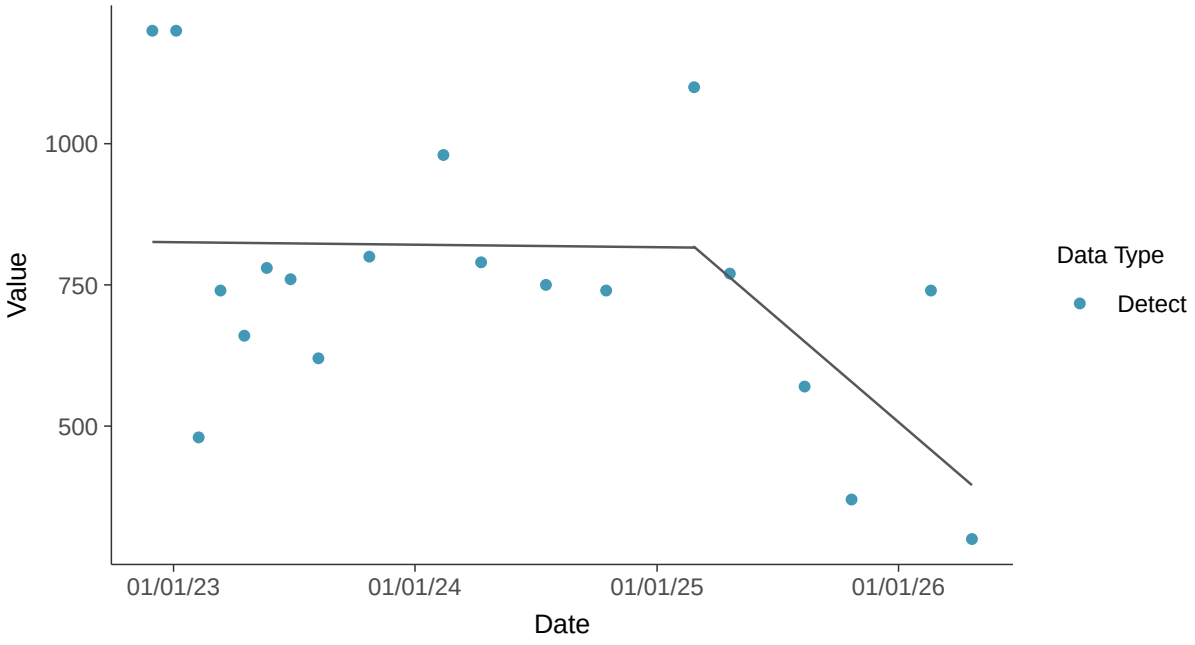
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-18 (mg/L)



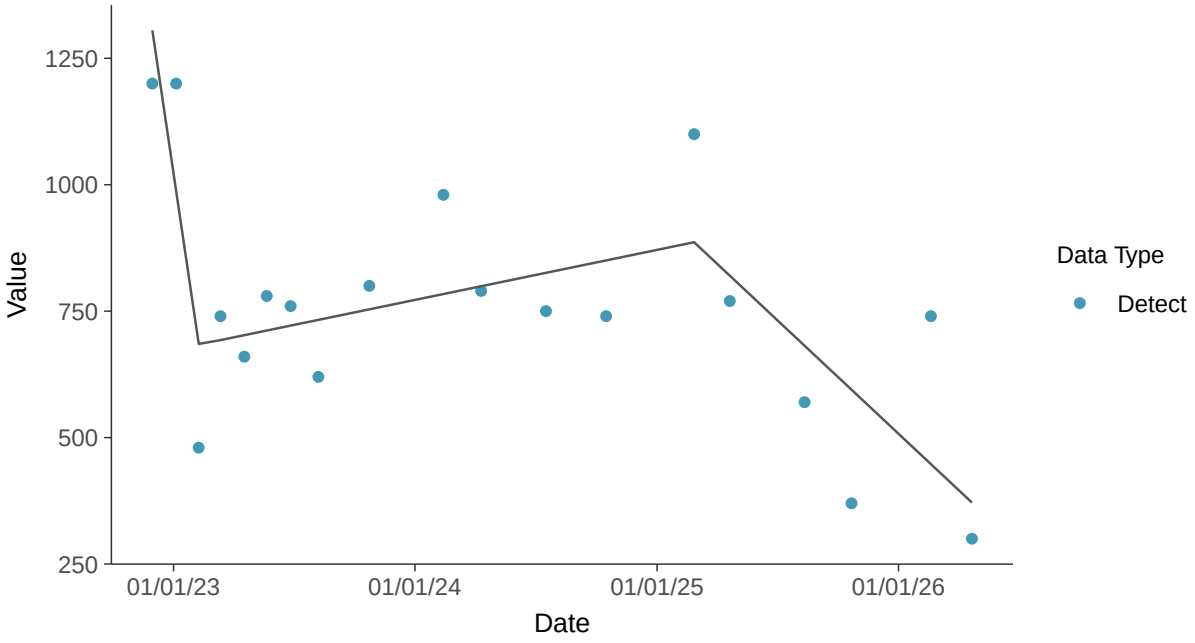
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-18 (mg/L)

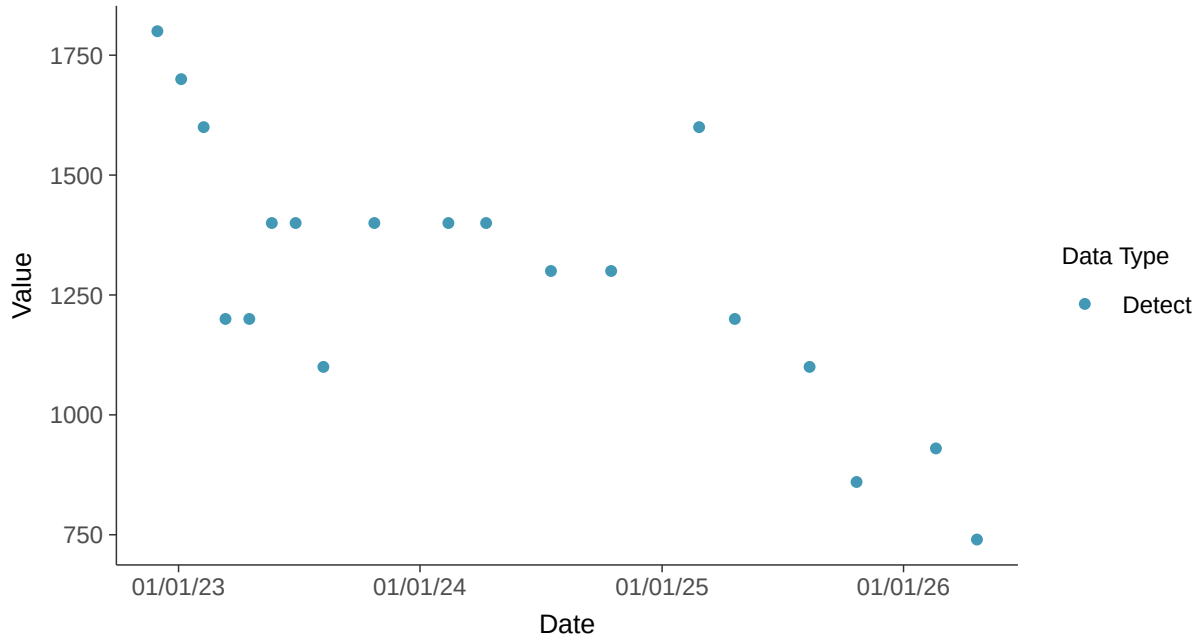


Appendix III: Total Dissolved Solids, MW-18

ID: 28_1_3_126

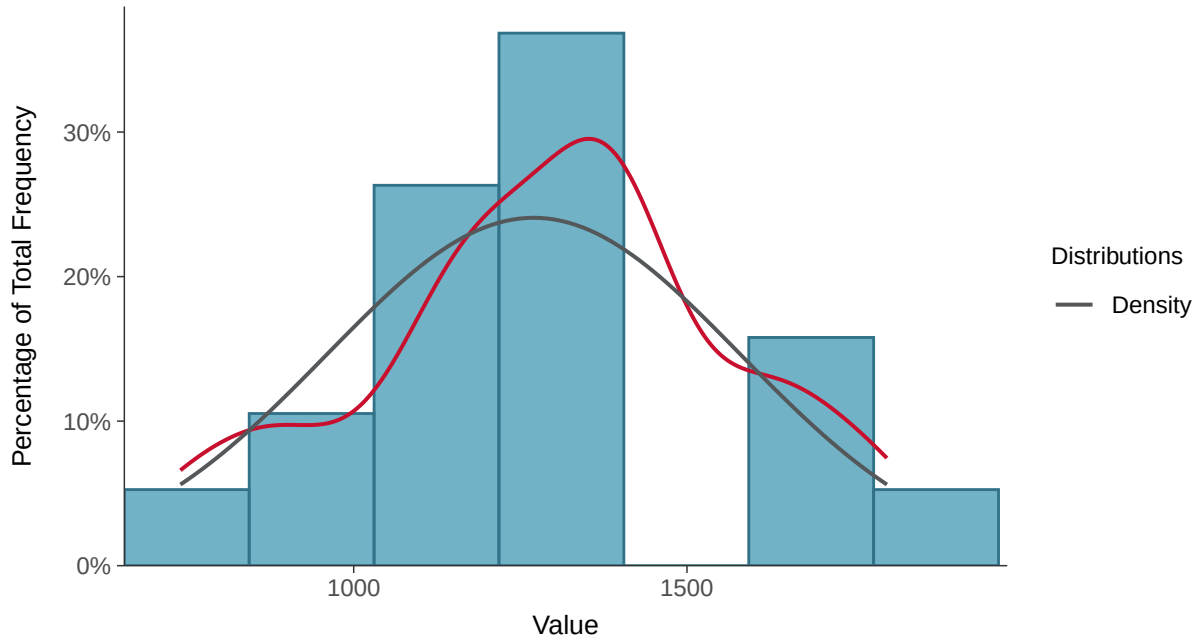
Scatter Plot

Total Dissolved Solids, MW-18 (mg/L)



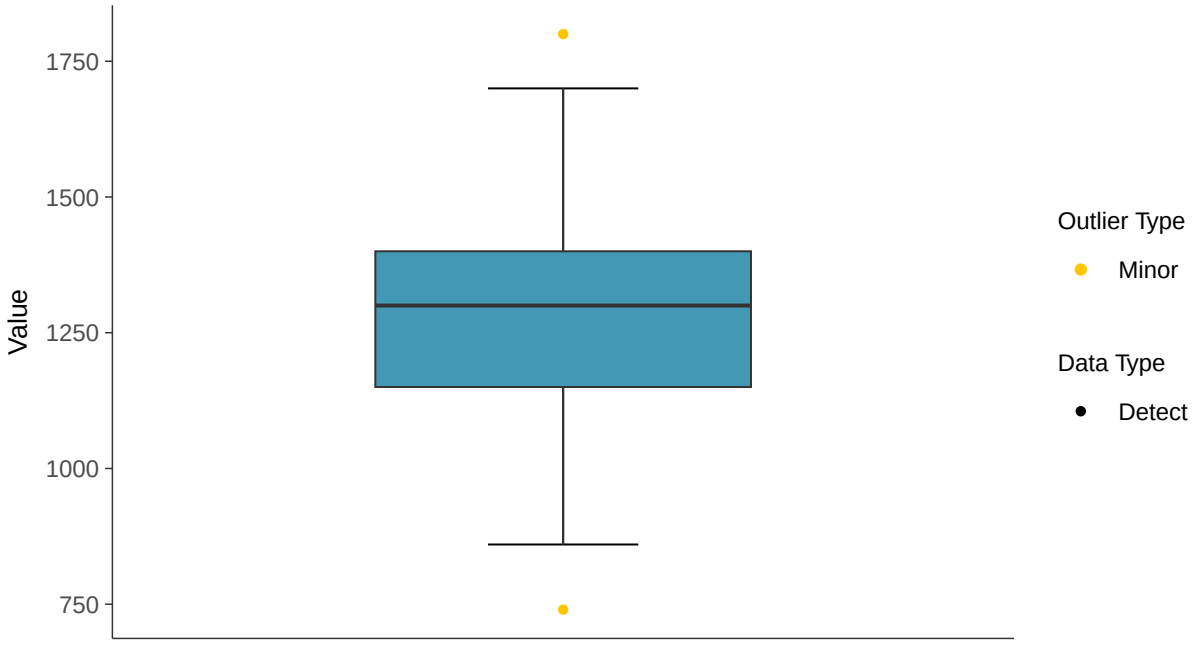
Histogram

Total Dissolved Solids, MW-18 (mg/L)



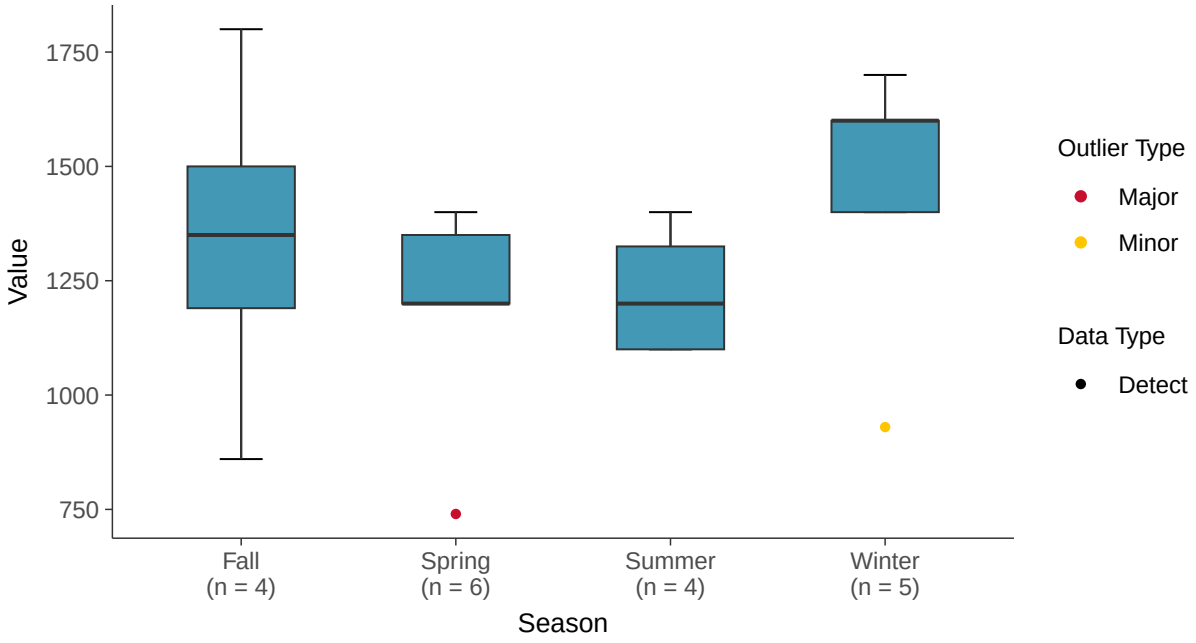
Boxplot

Total Dissolved Solids, MW-18 (mg/L)



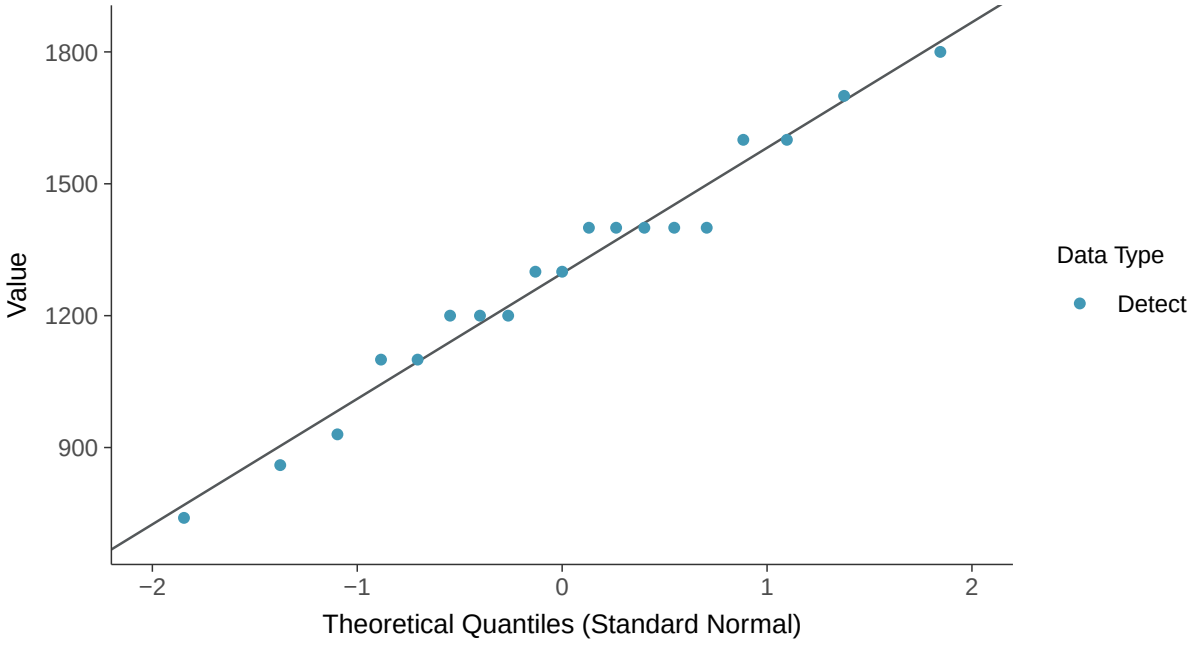
Boxplot by Season

Total Dissolved Solids, MW-18 (mg/L)



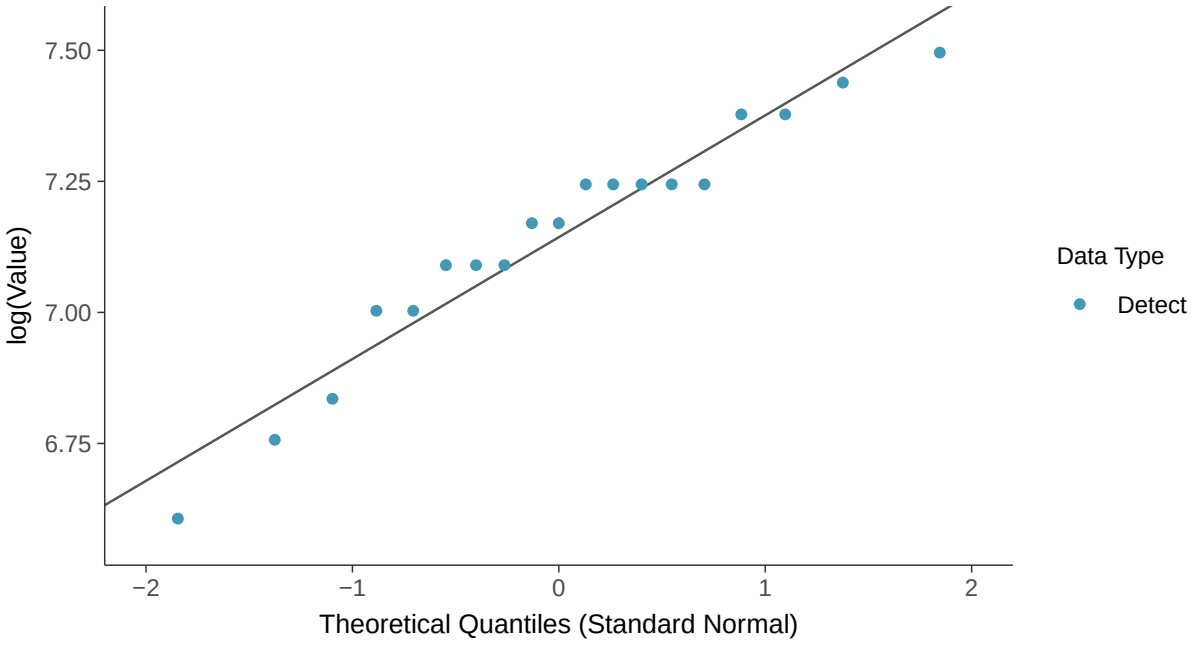
Normal Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



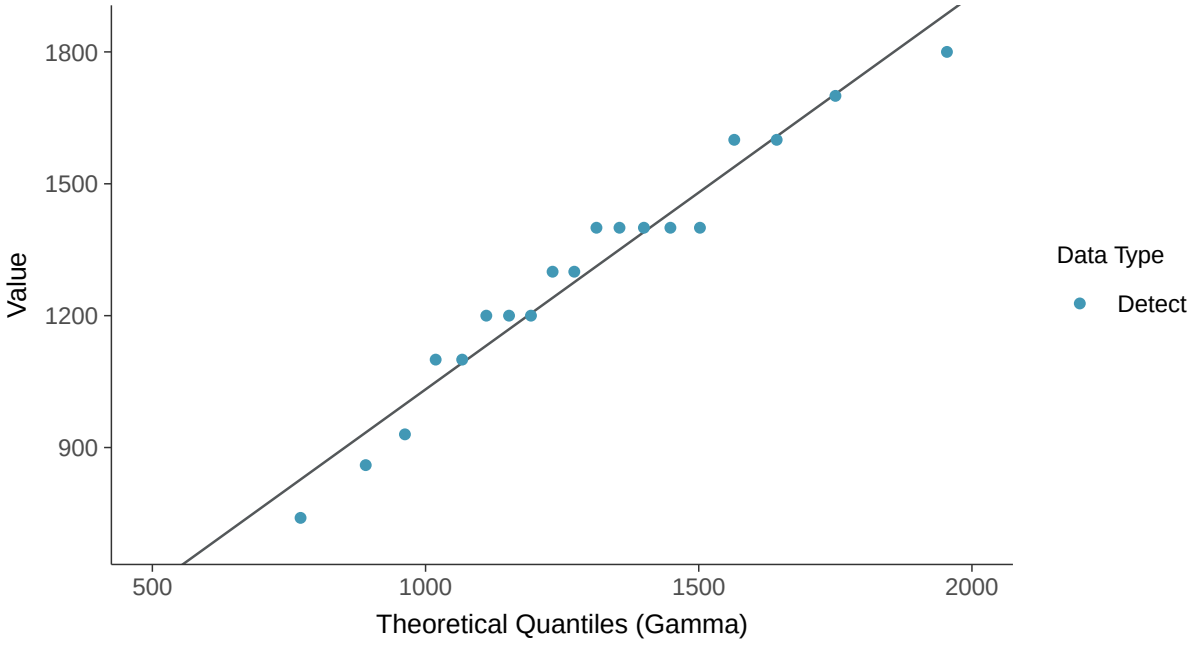
Lognormal Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



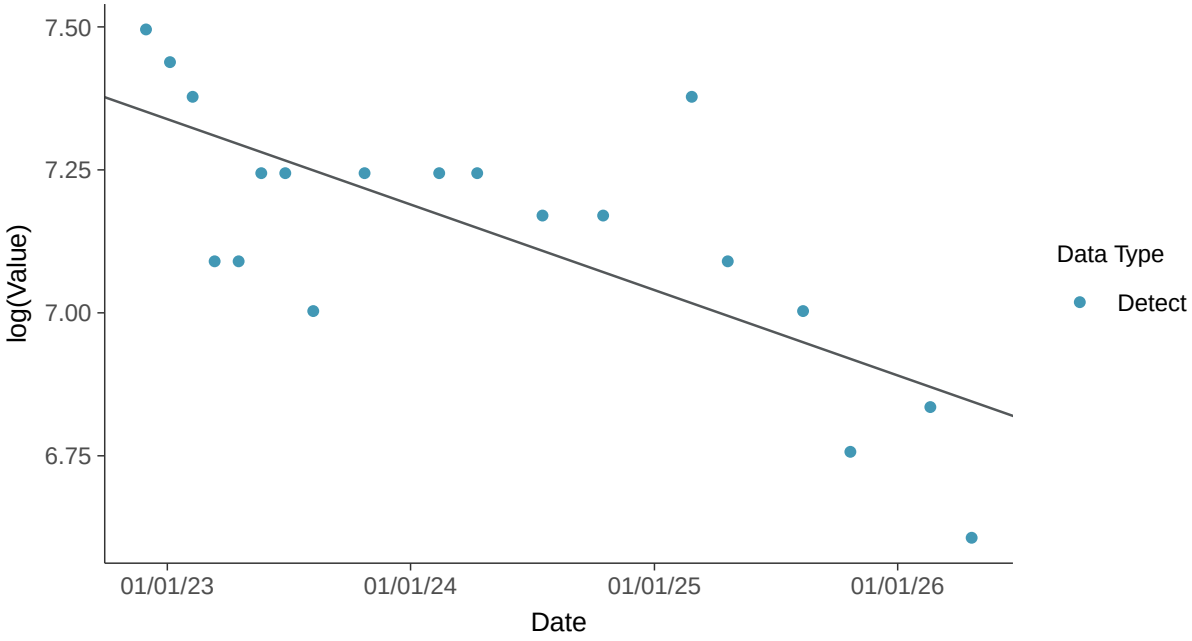
Gamma Q-Q plot

Total Dissolved Solids, MW-18 (mg/L)



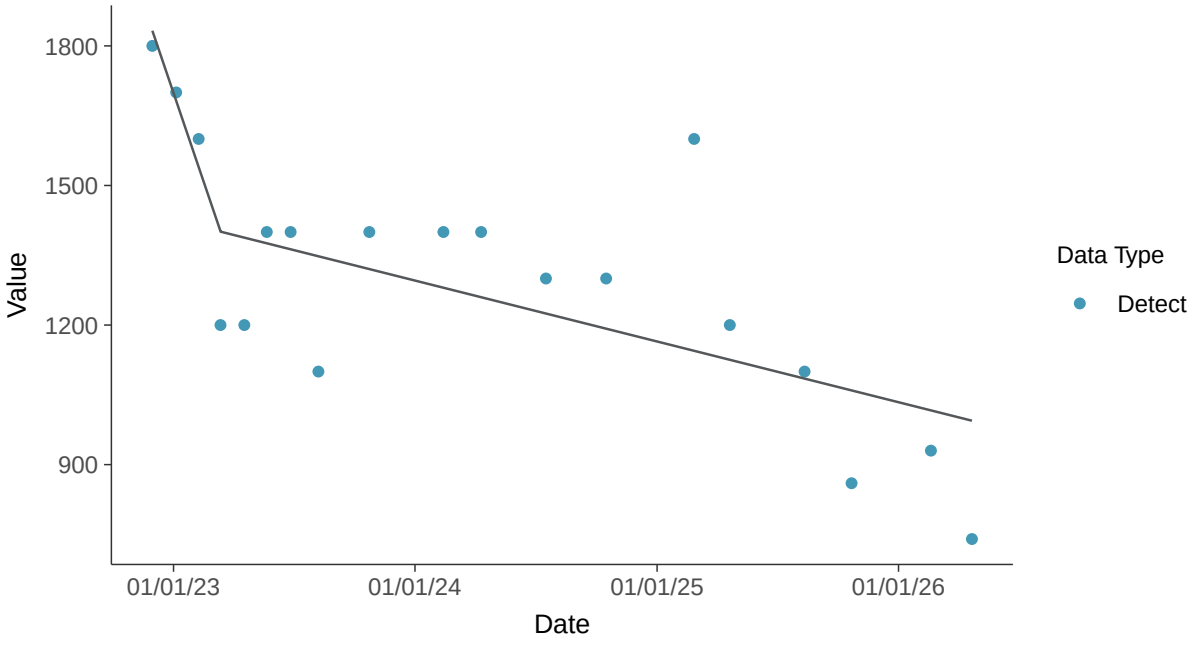
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-18 (mg/L)



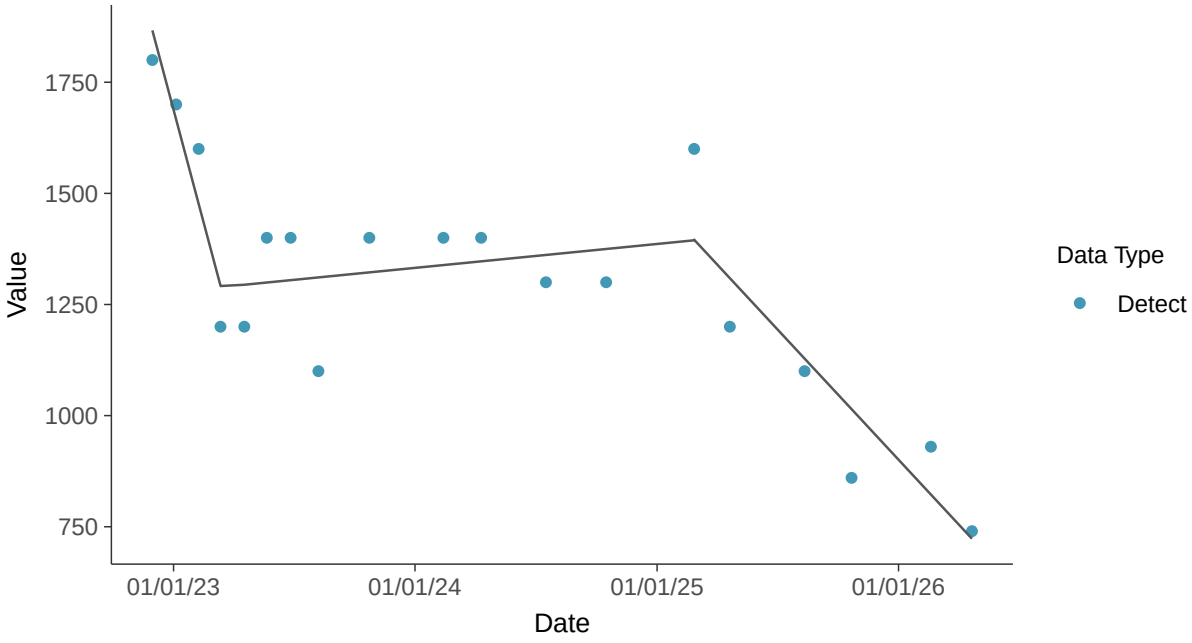
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-18 (mg/L)

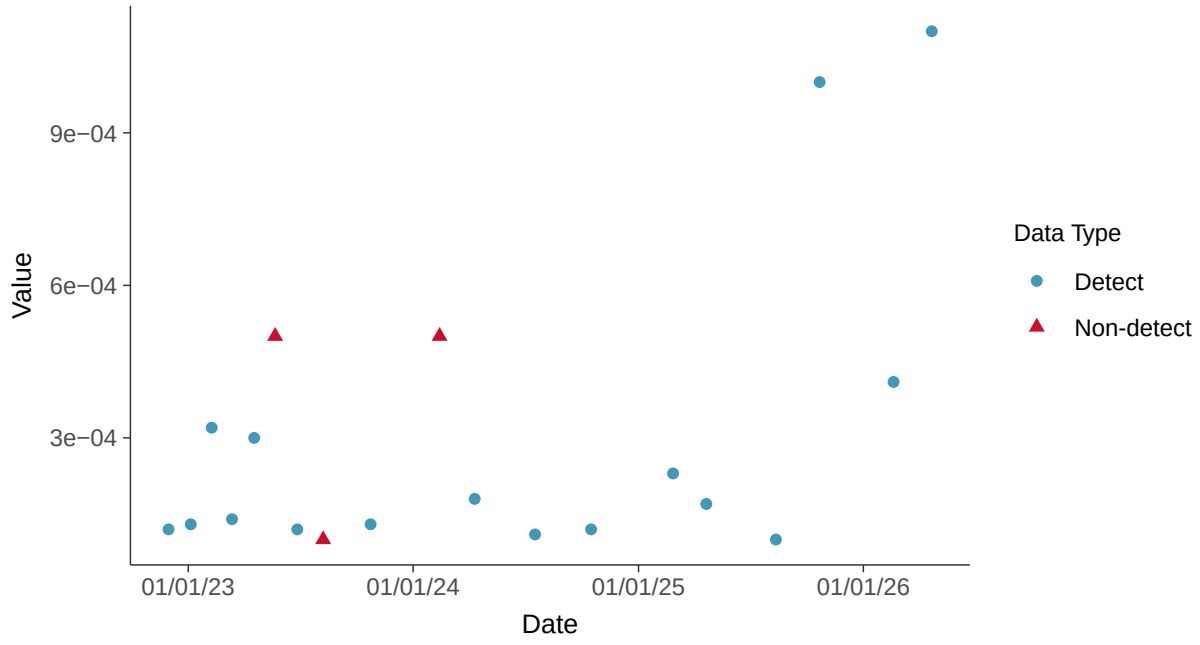


Appendix IV: Antimony, MW-18

ID: 28_1_4_101

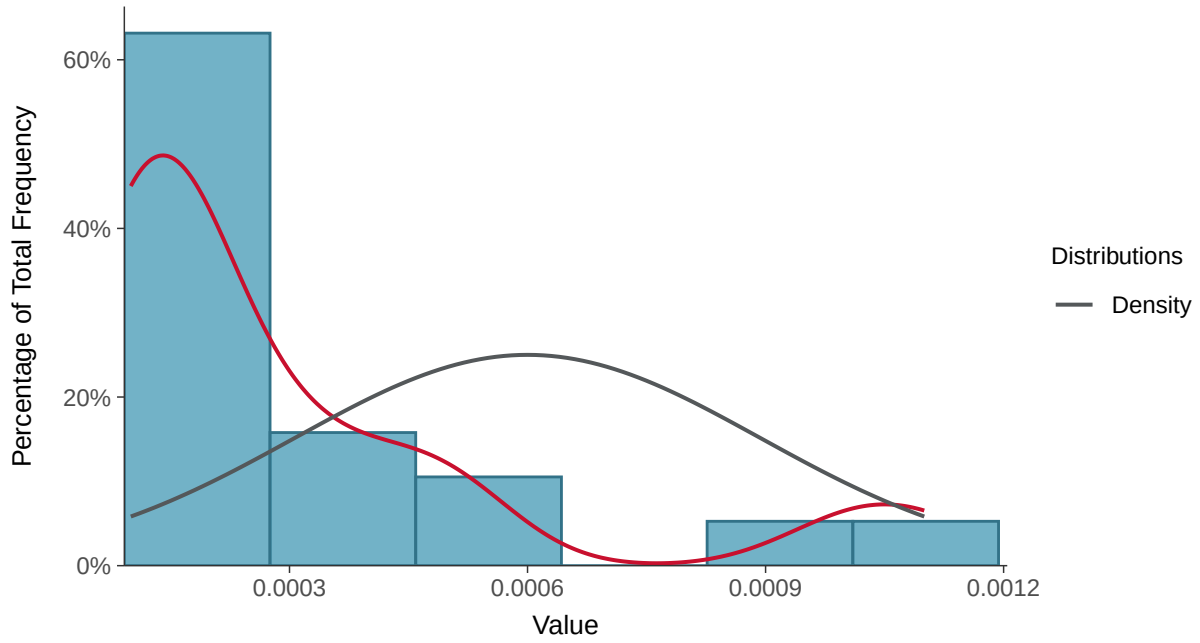
Scatter Plot

Antimony, MW-18 (mg/L)



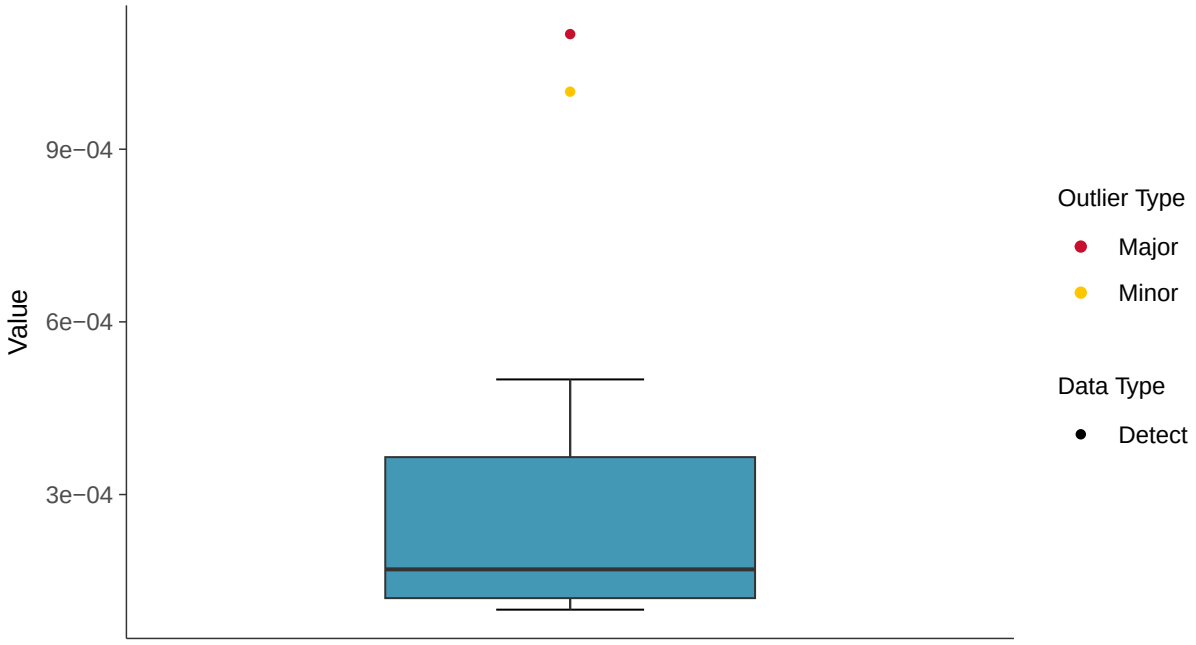
Histogram

Antimony, MW-18 (mg/L)



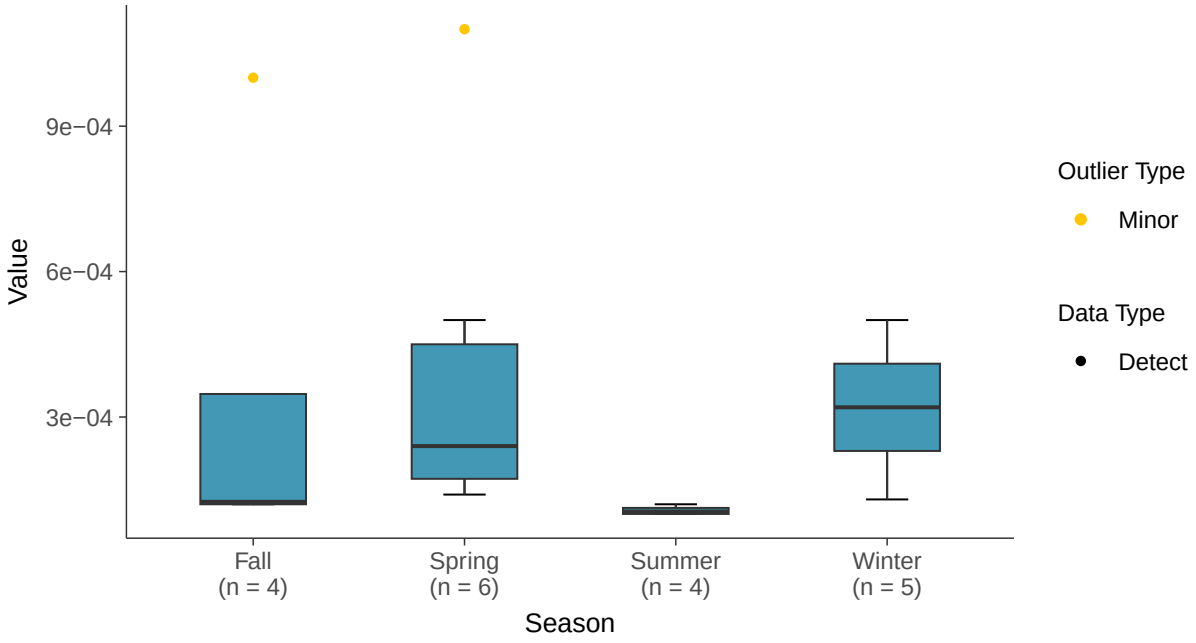
Boxplot

Antimony, MW-18 (mg/L)



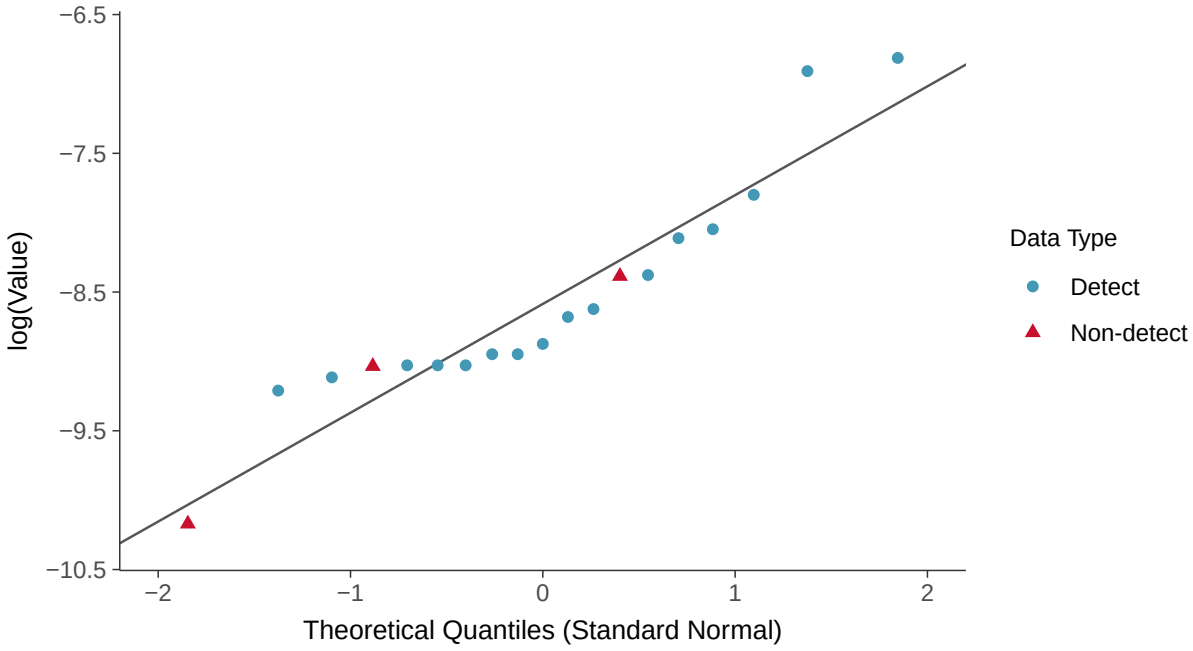
Boxplot by Season

Antimony, MW-18 (mg/L)



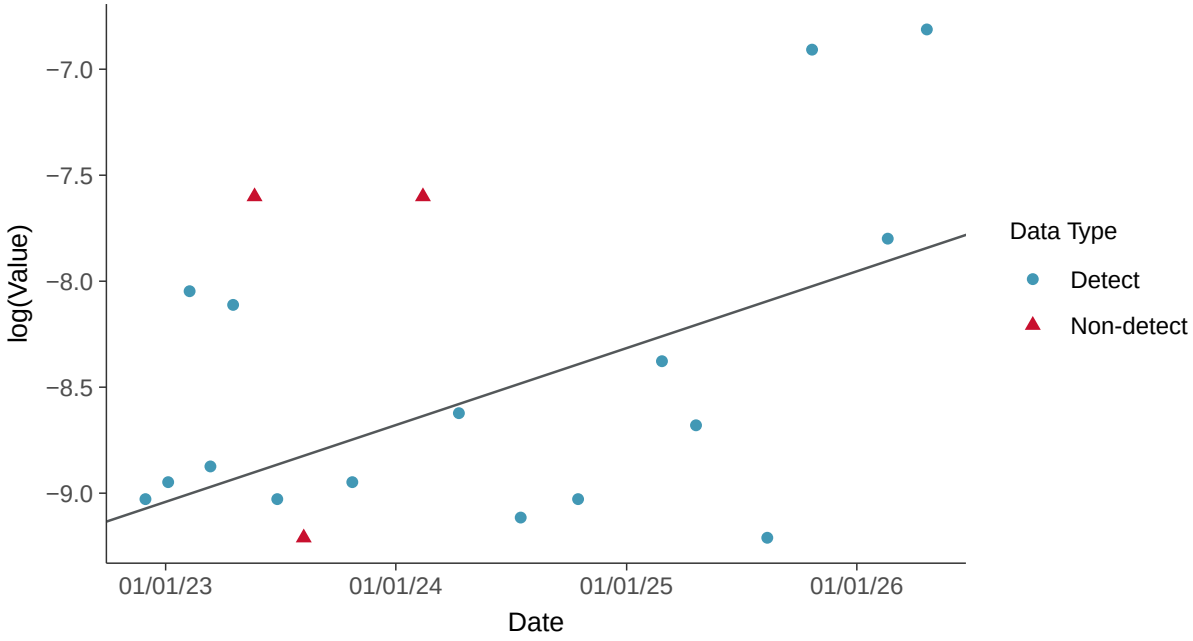
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-18 (mg/L)



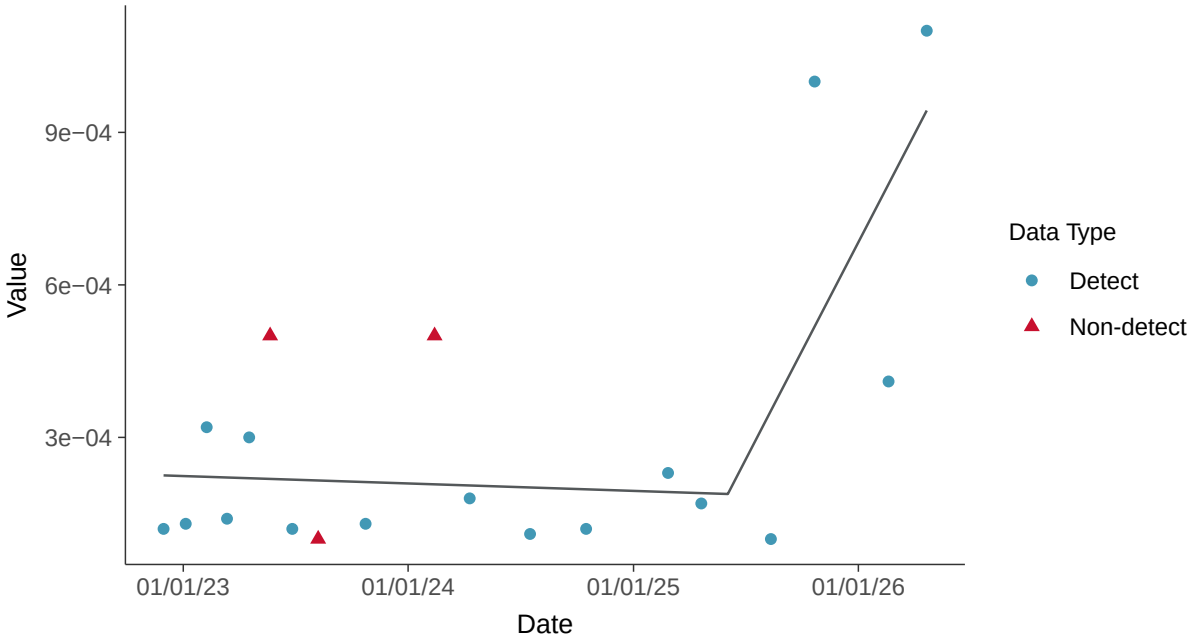
Trend Regression: Lognormal MLE

Antimony, MW-18 (mg/L)



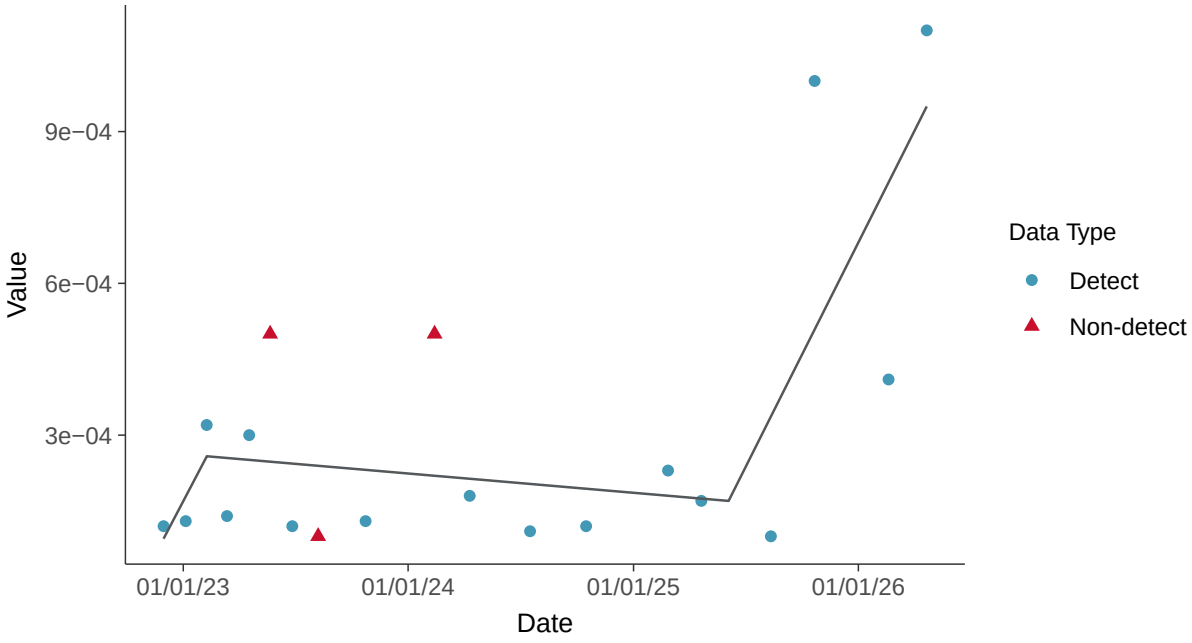
Trend Regression: Piecewise Linear-Linear

Antimony, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-18 (mg/L)

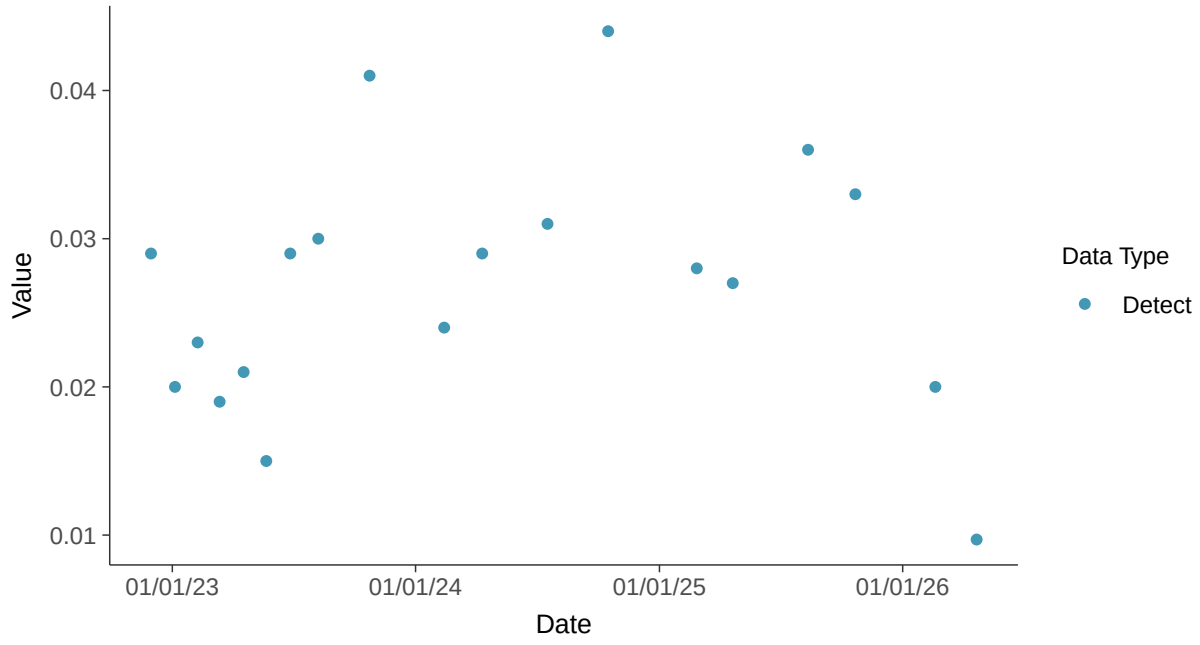


Appendix IV: Arsenic, MW-18

ID: 28_1_4_102

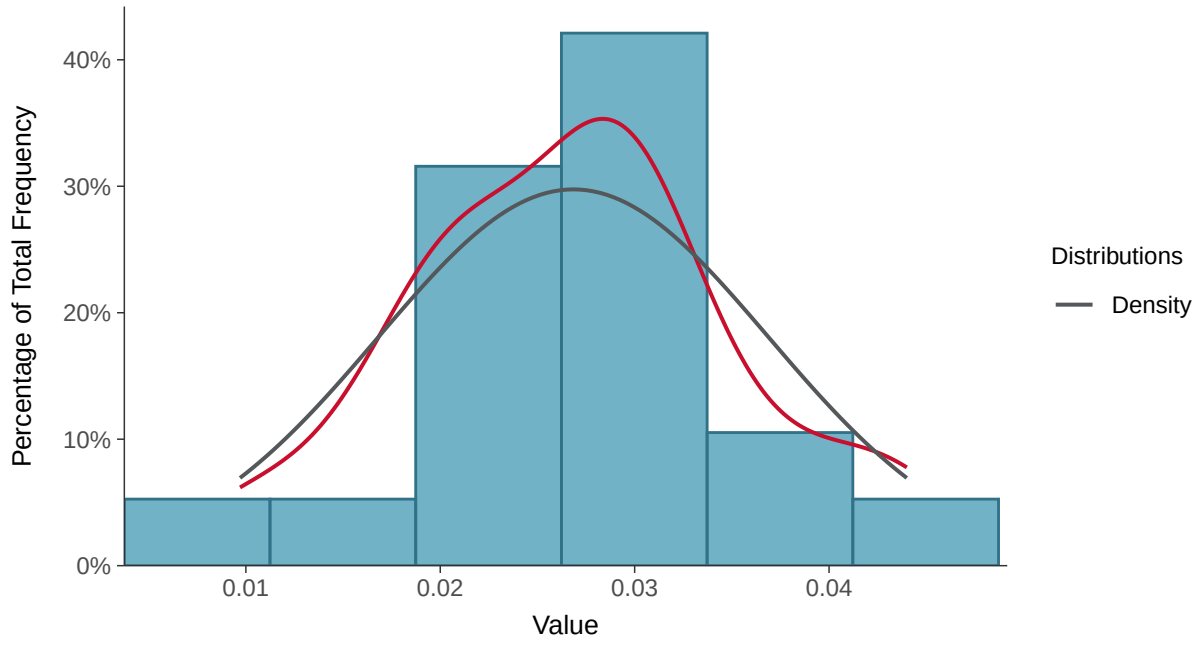
Scatter Plot

Arsenic, MW-18 (mg/L)



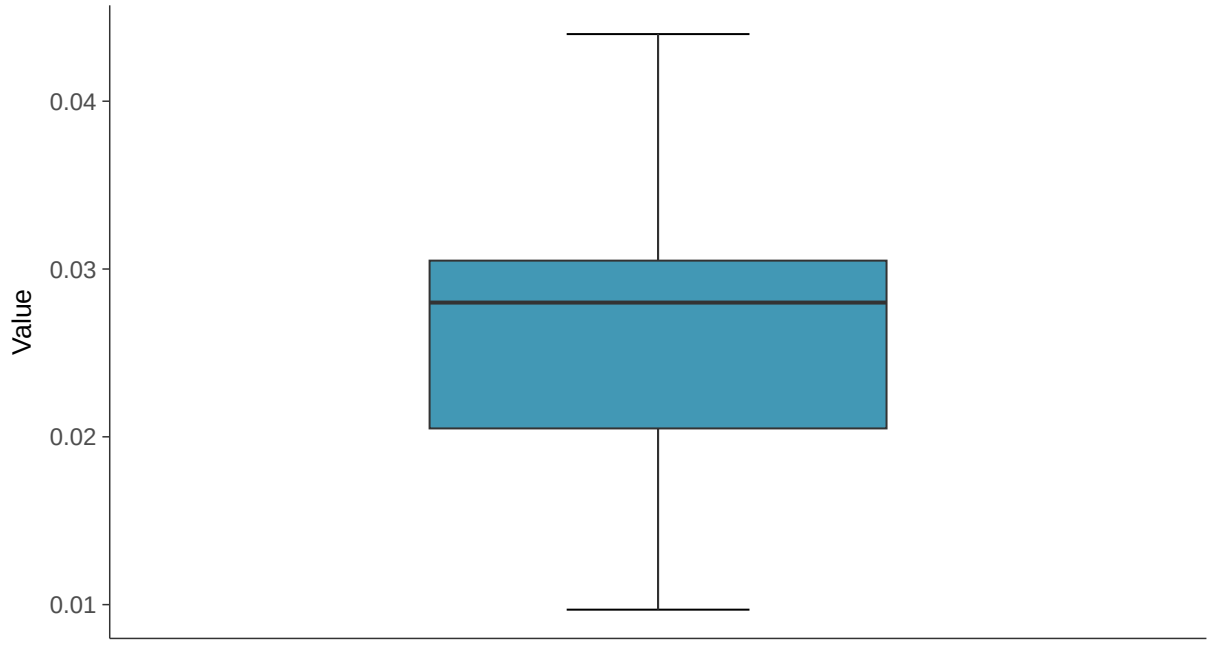
Histogram

Arsenic, MW-18 (mg/L)



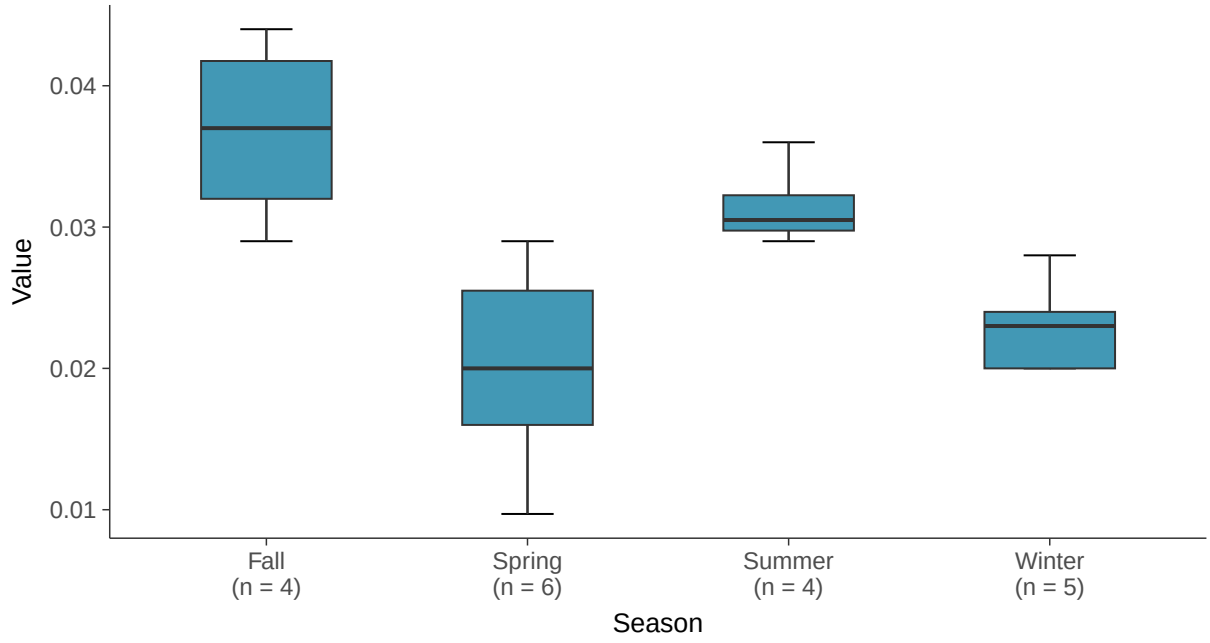
Boxplot

Arsenic, MW-18 (mg/L)



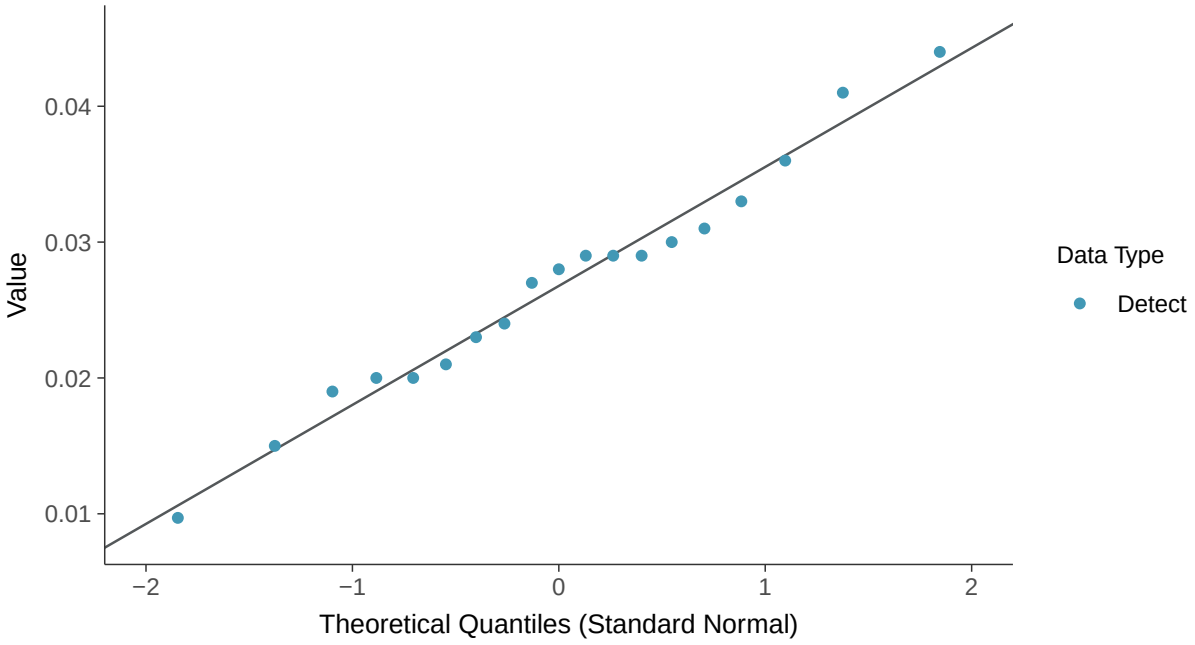
Boxplot by Season

Arsenic, MW-18 (mg/L)



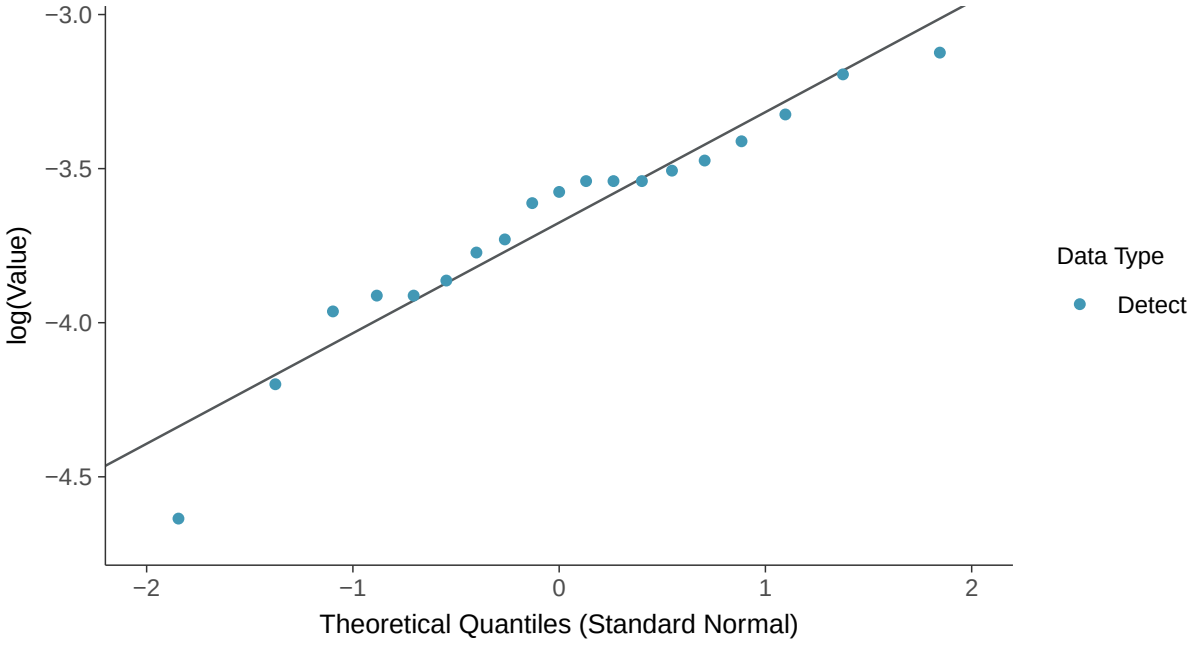
Normal Q-Q plot

Arsenic, MW-18 (mg/L)



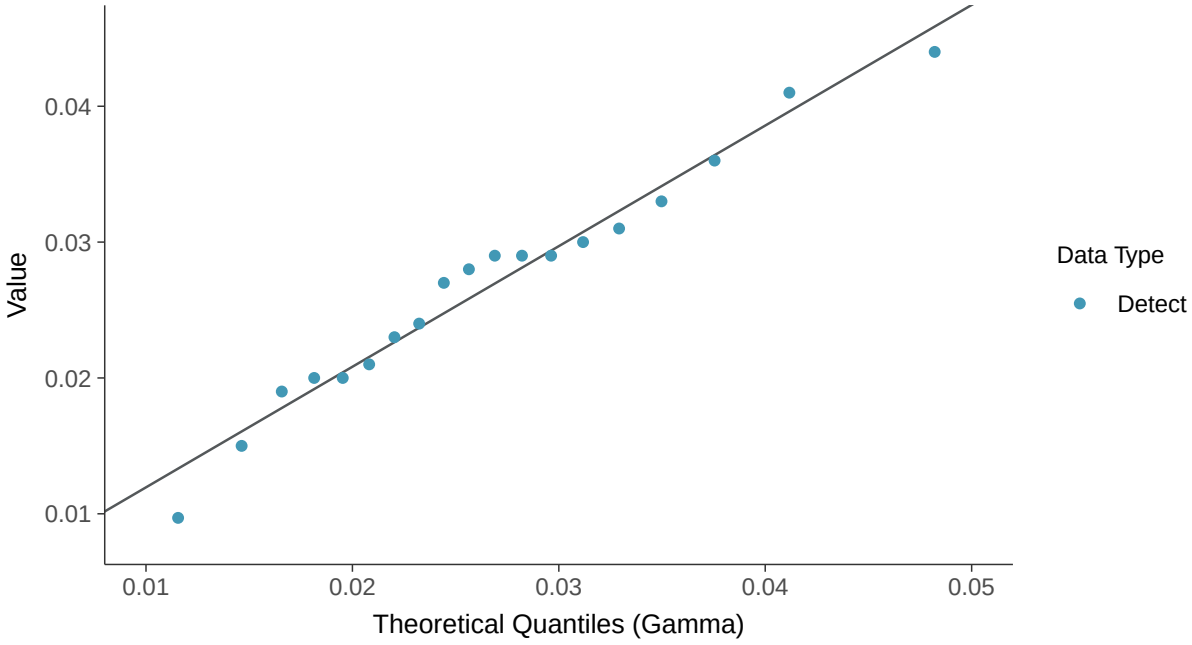
Lognormal Q-Q plot

Arsenic, MW-18 (mg/L)



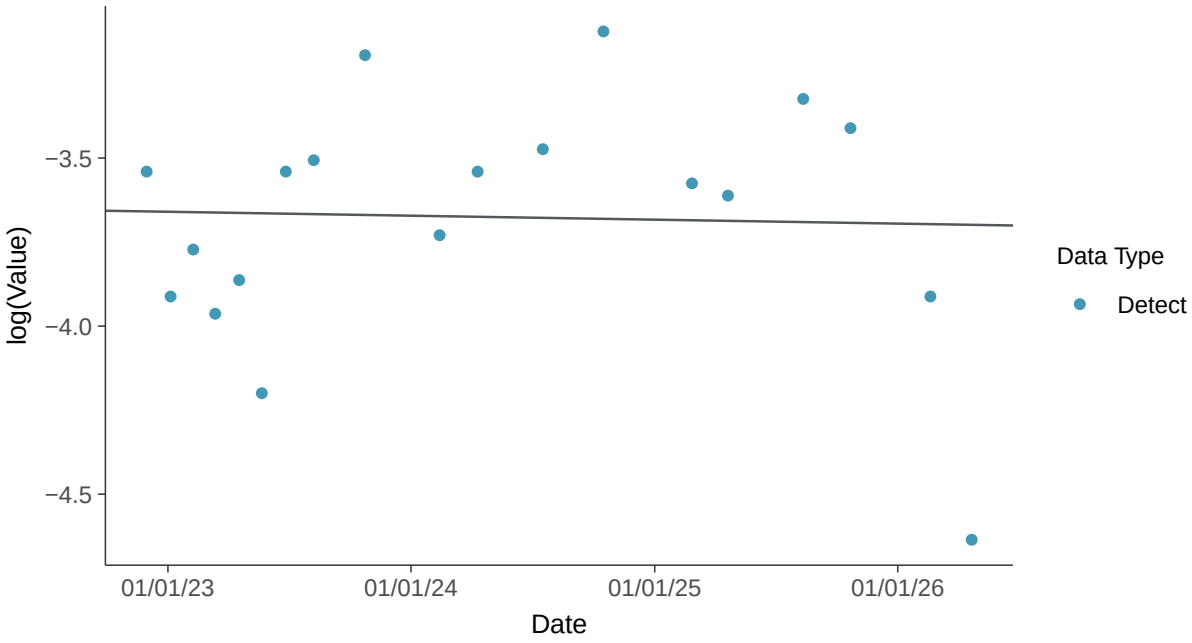
Gamma Q-Q plot

Arsenic, MW-18 (mg/L)



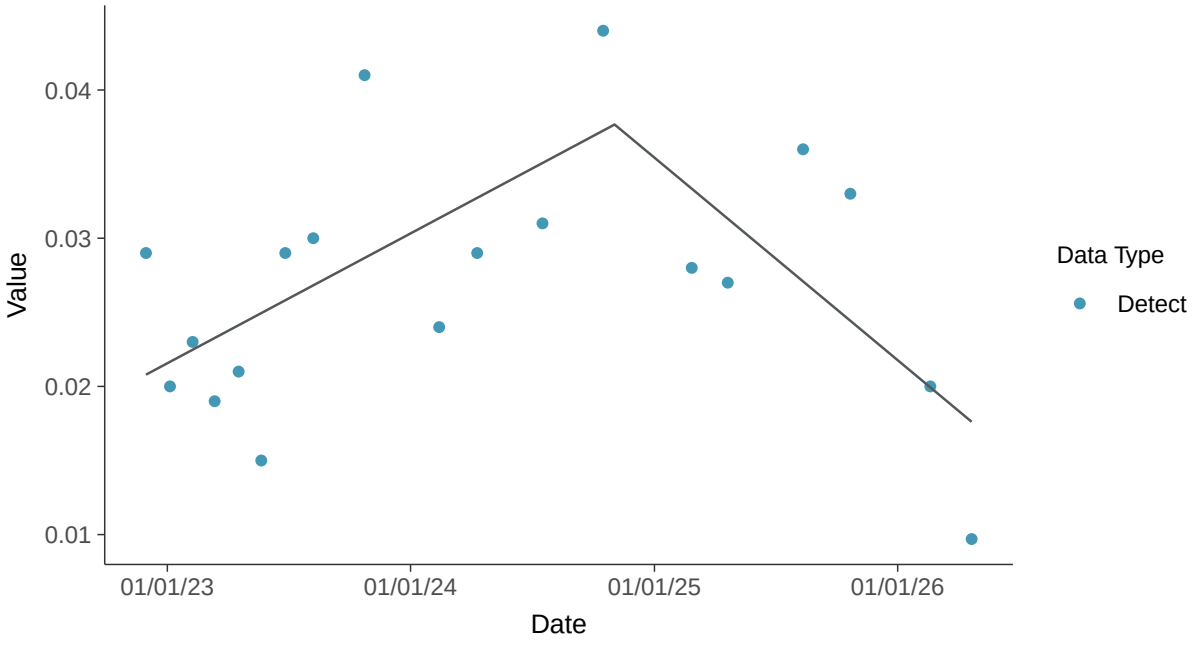
Trend Regression: Lognormal MLE

Arsenic, MW-18 (mg/L)



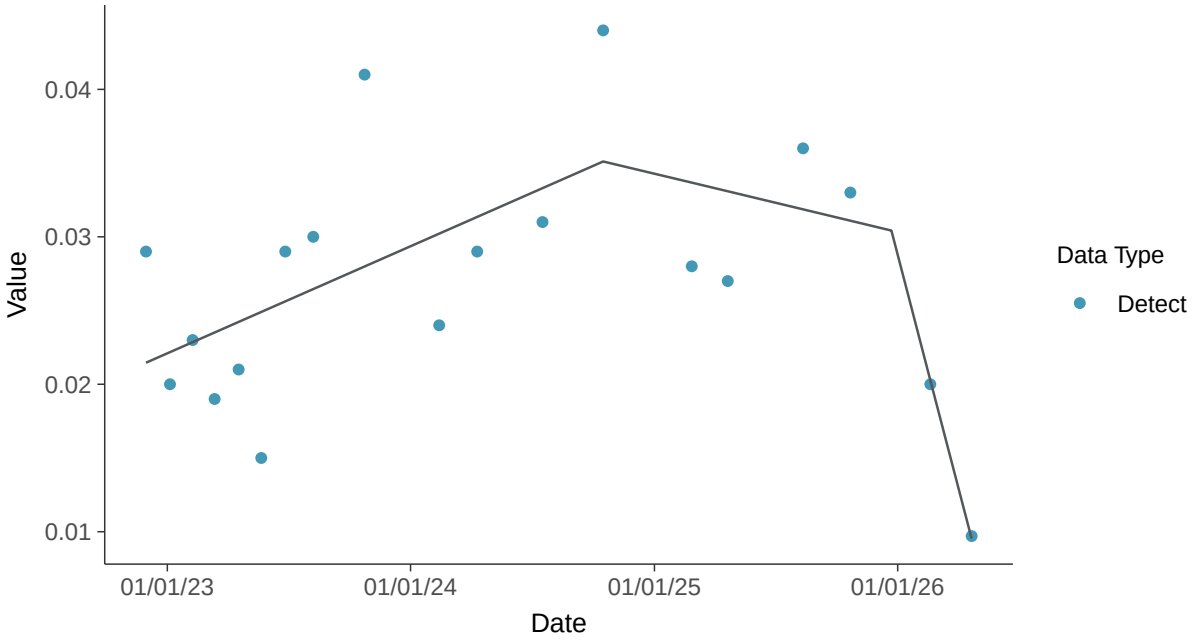
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-18 (mg/L)

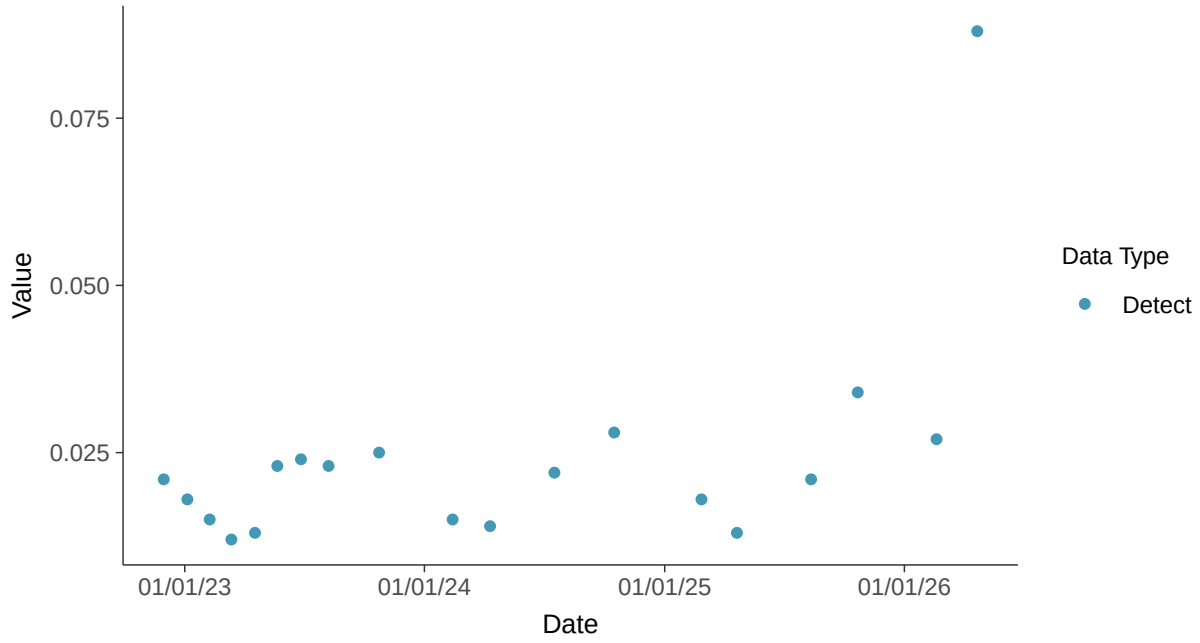


Appendix IV: Barium, MW-18

ID: 28_1_4_103

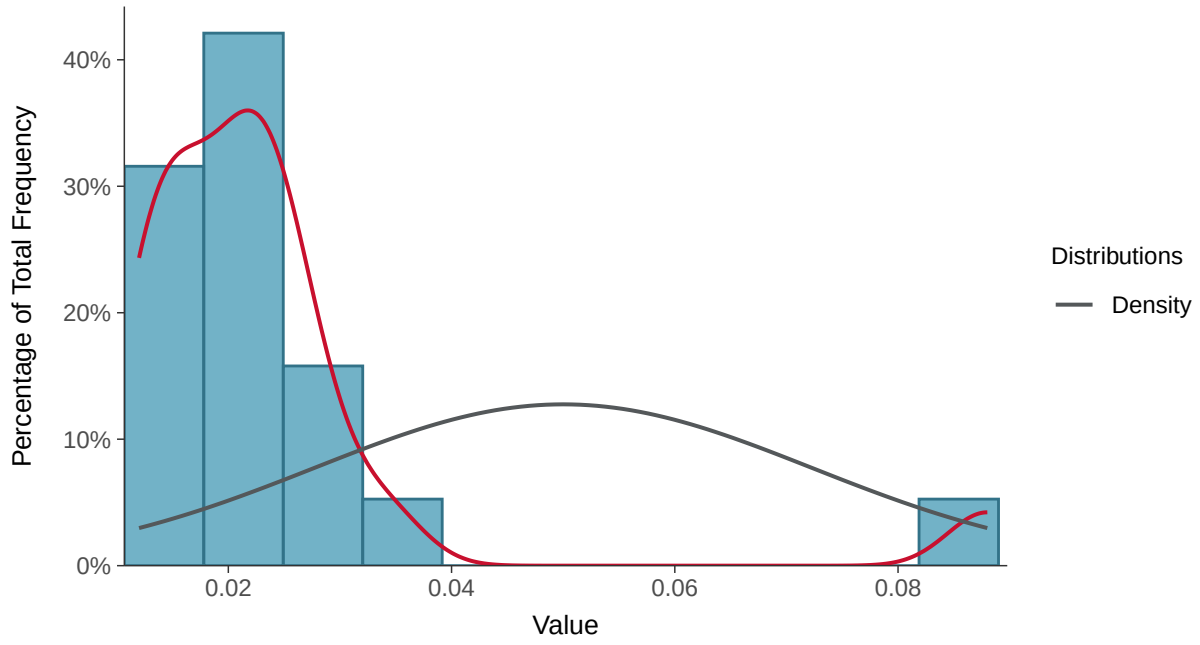
Scatter Plot

Barium, MW-18 (mg/L)



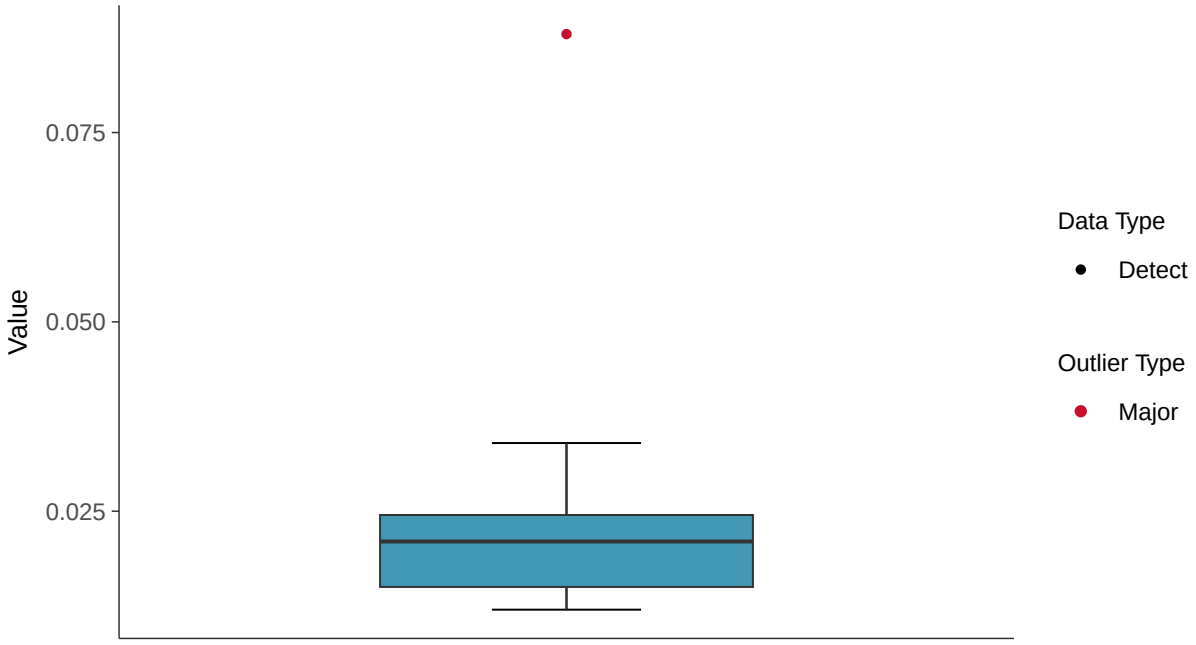
Histogram

Barium, MW-18 (mg/L)



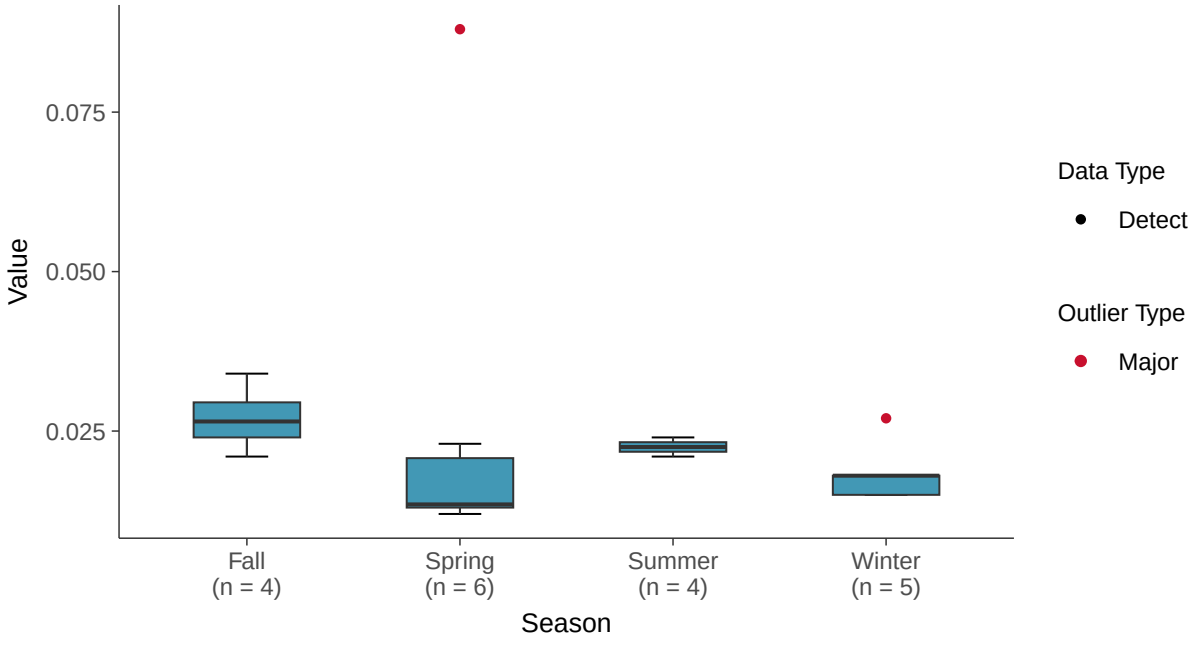
Boxplot

Barium, MW-18 (mg/L)



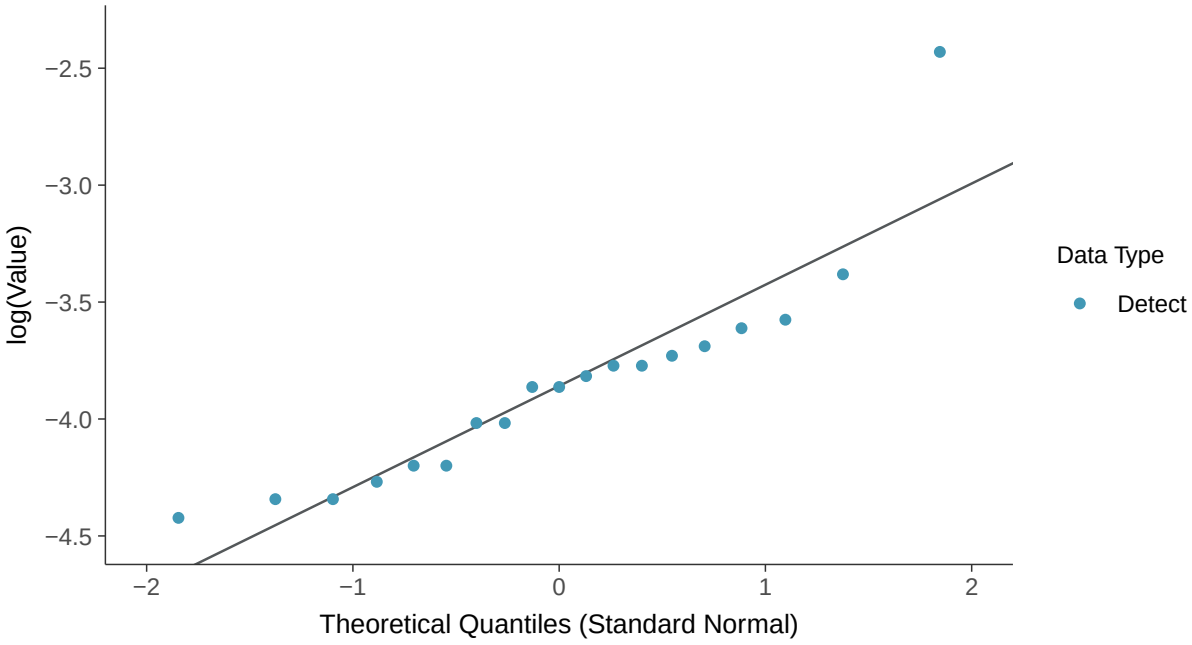
Boxplot by Season

Barium, MW-18 (mg/L)



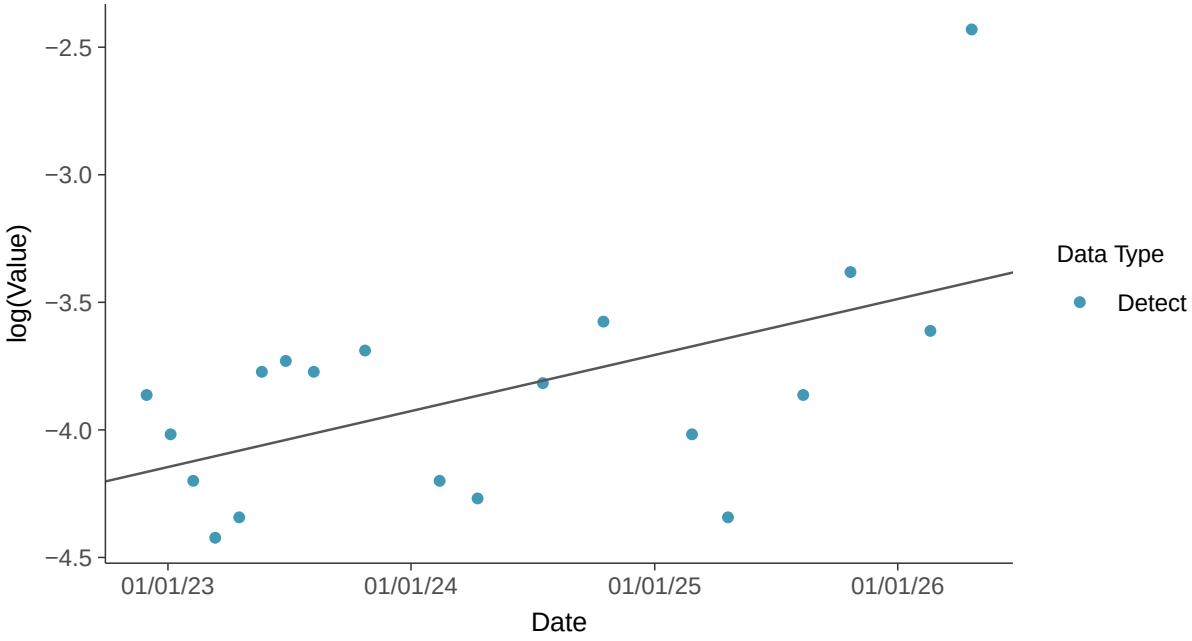
Lognormal Q-Q plot

Barium, MW-18 (mg/L)



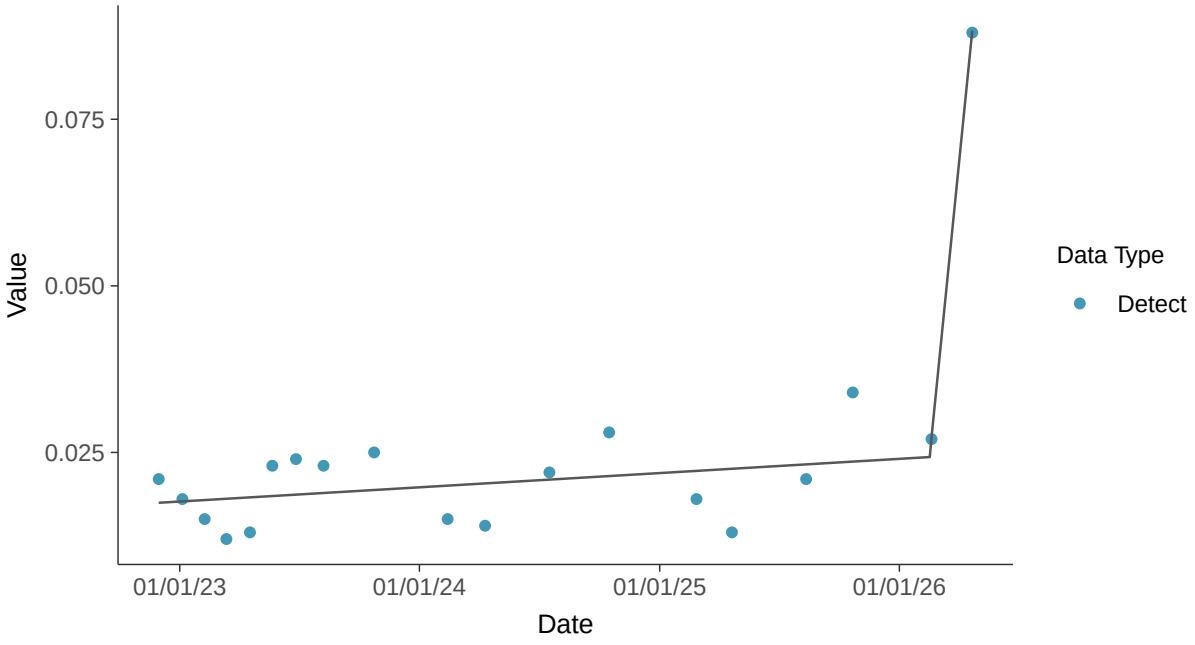
Trend Regression: Lognormal MLE

Barium, MW-18 (mg/L)



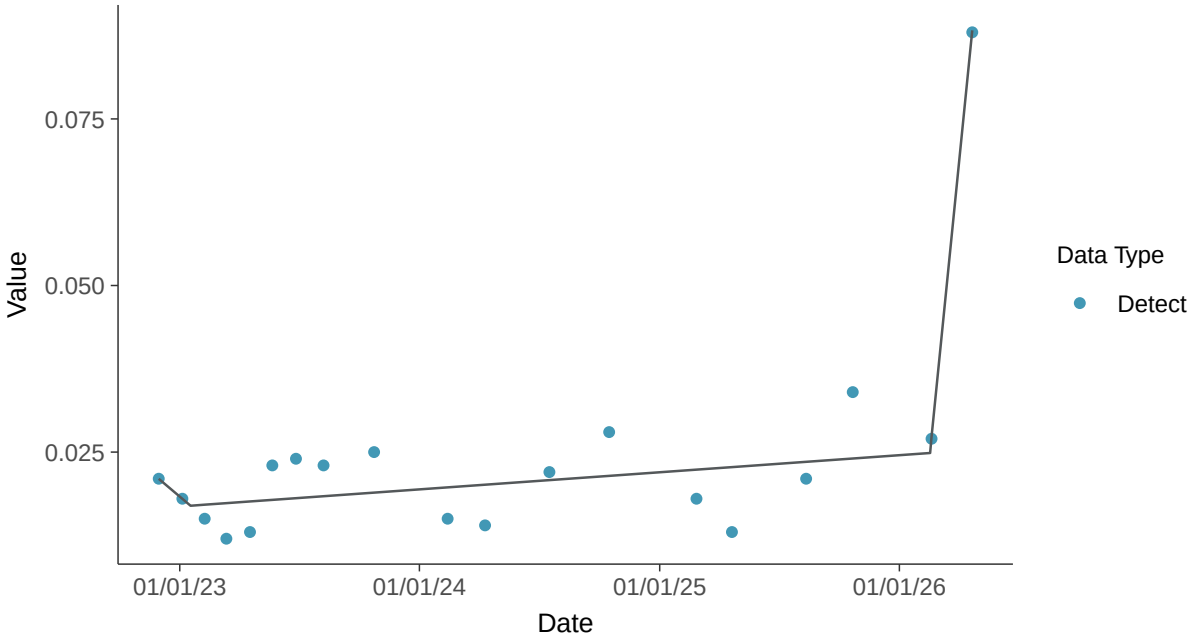
Trend Regression: Piecewise Linear-Linear

Barium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-18 (mg/L)

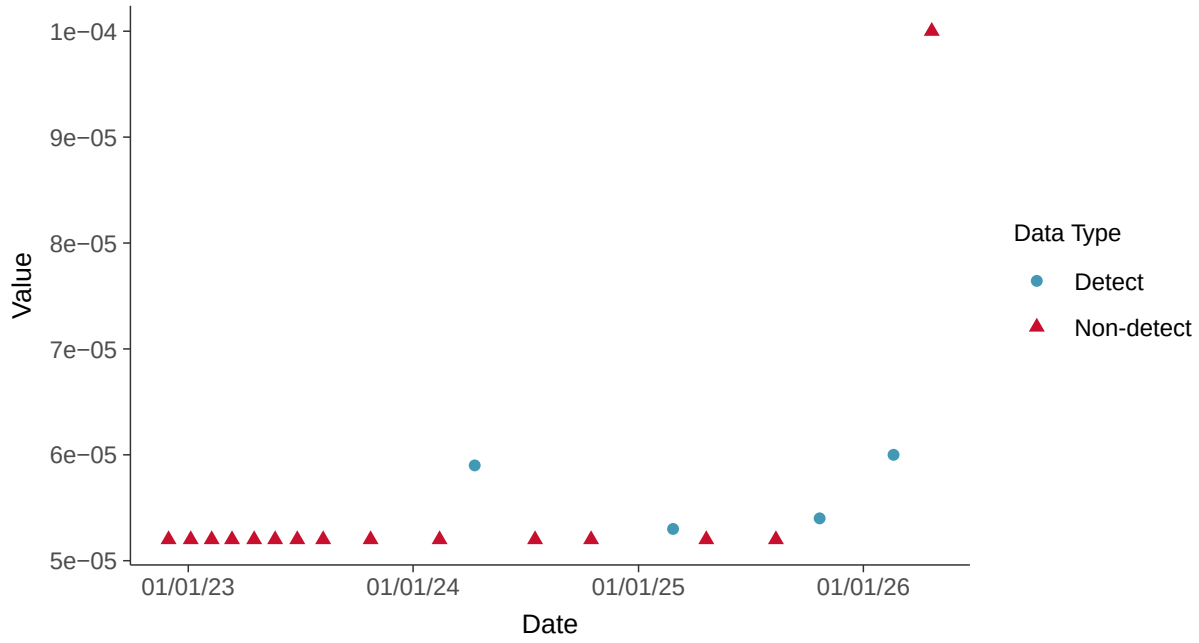


Appendix IV: Beryllium, MW-18

ID: 28_1_4_104

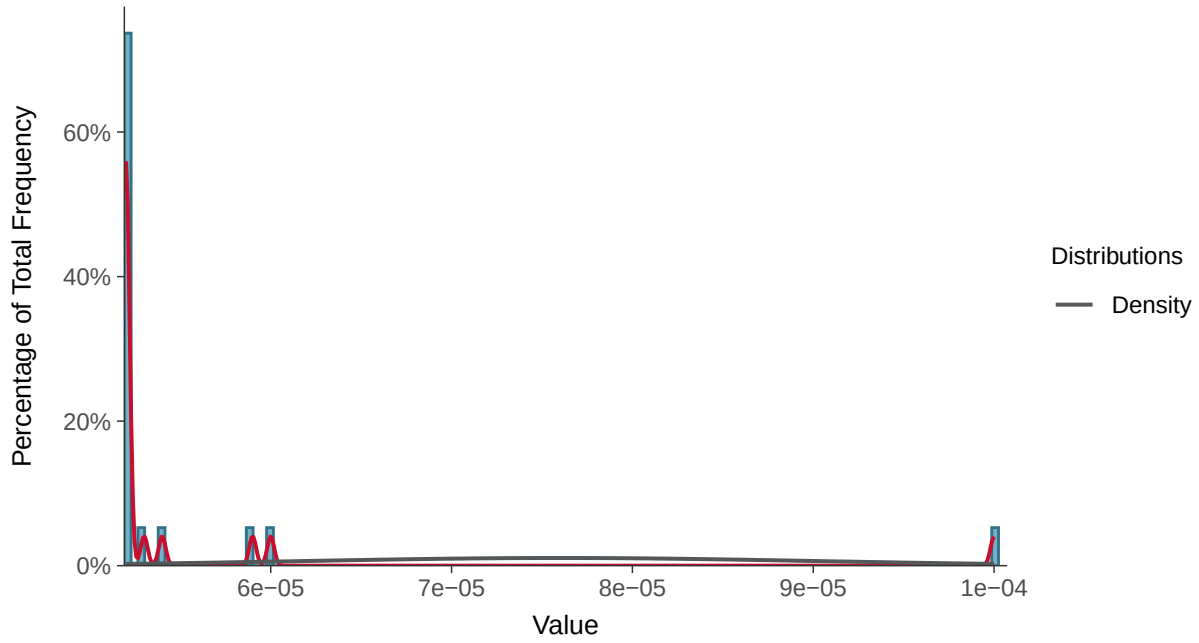
Scatter Plot

Beryllium, MW-18 (mg/L)



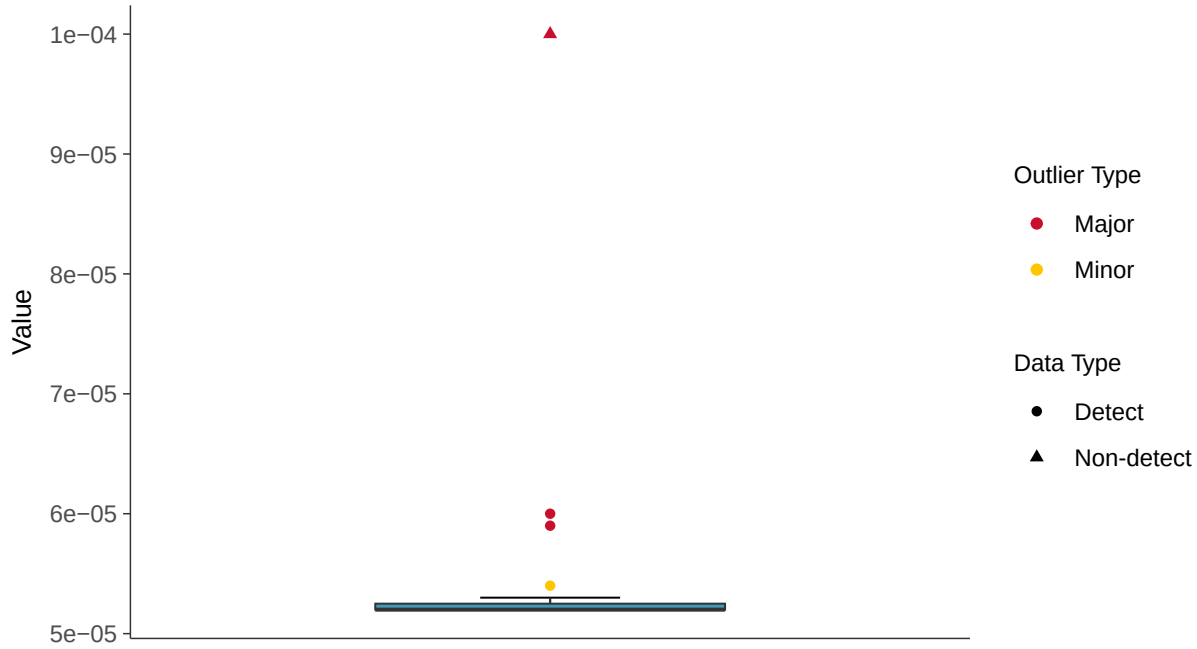
Histogram

Beryllium, MW-18 (mg/L)



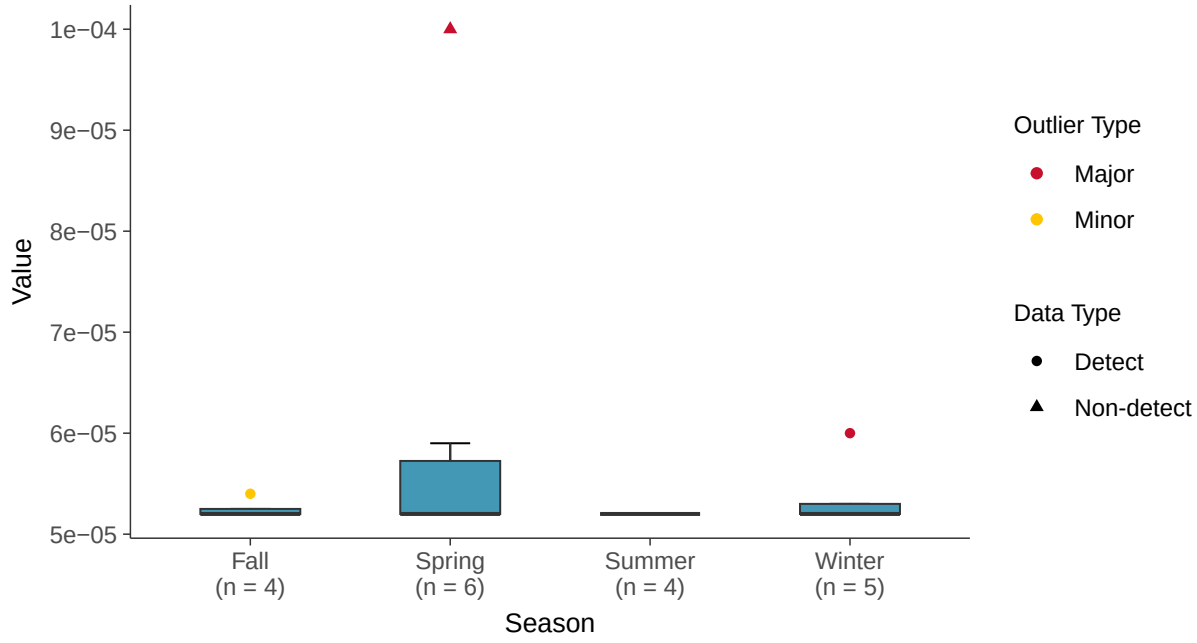
Boxplot

Beryllium, MW-18 (mg/L)



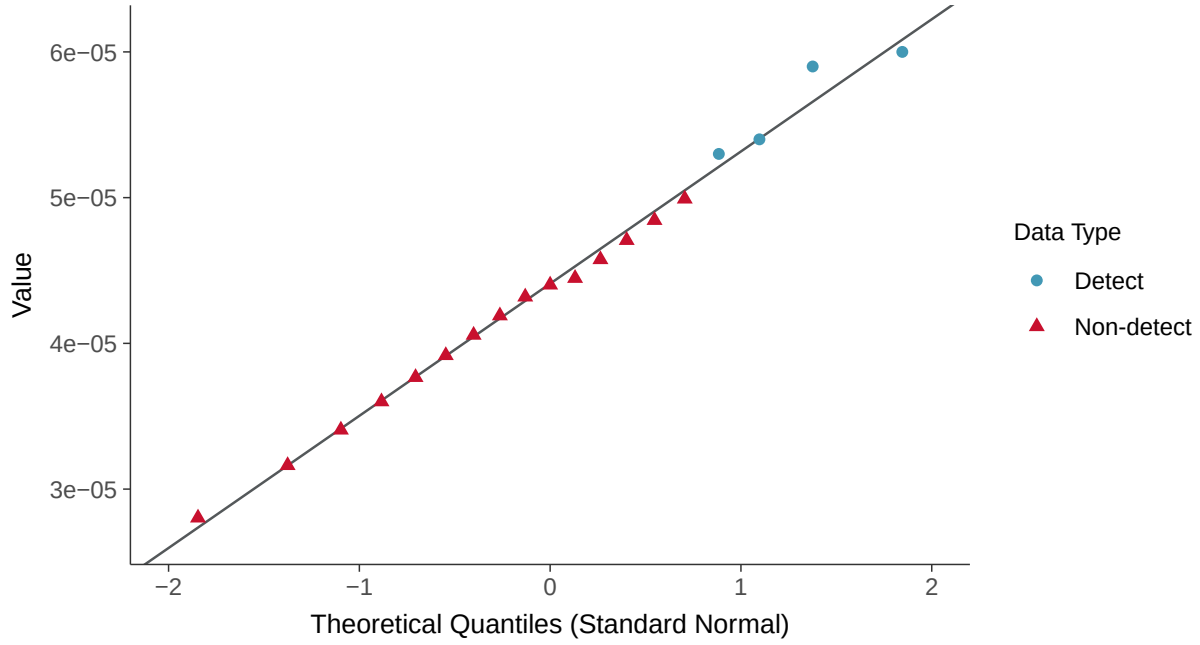
Boxplot by Season

Beryllium, MW-18 (mg/L)



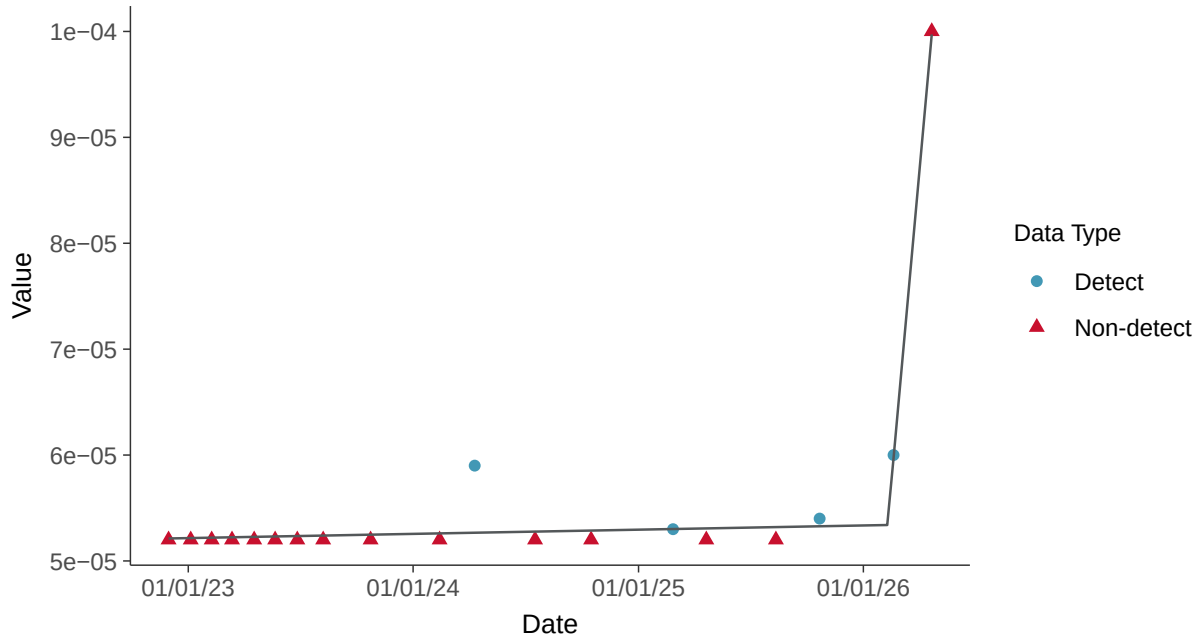
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-18 (mg/L)



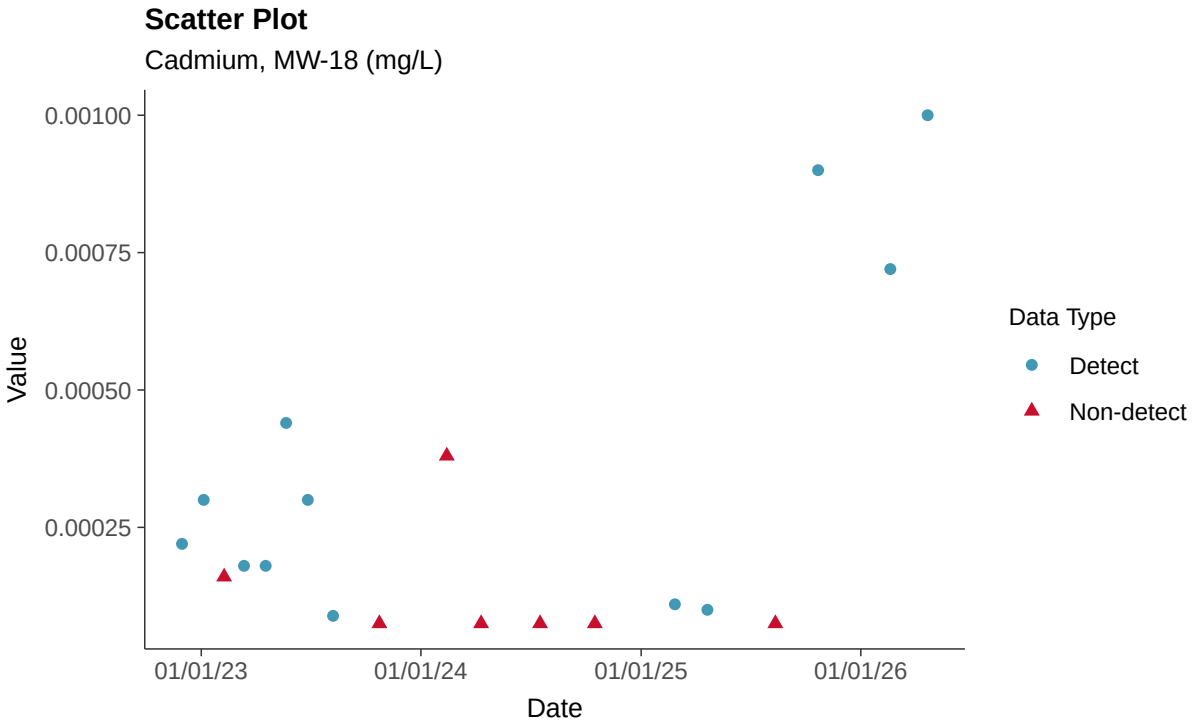
Trend Regression: Piecewise Linear-Linear

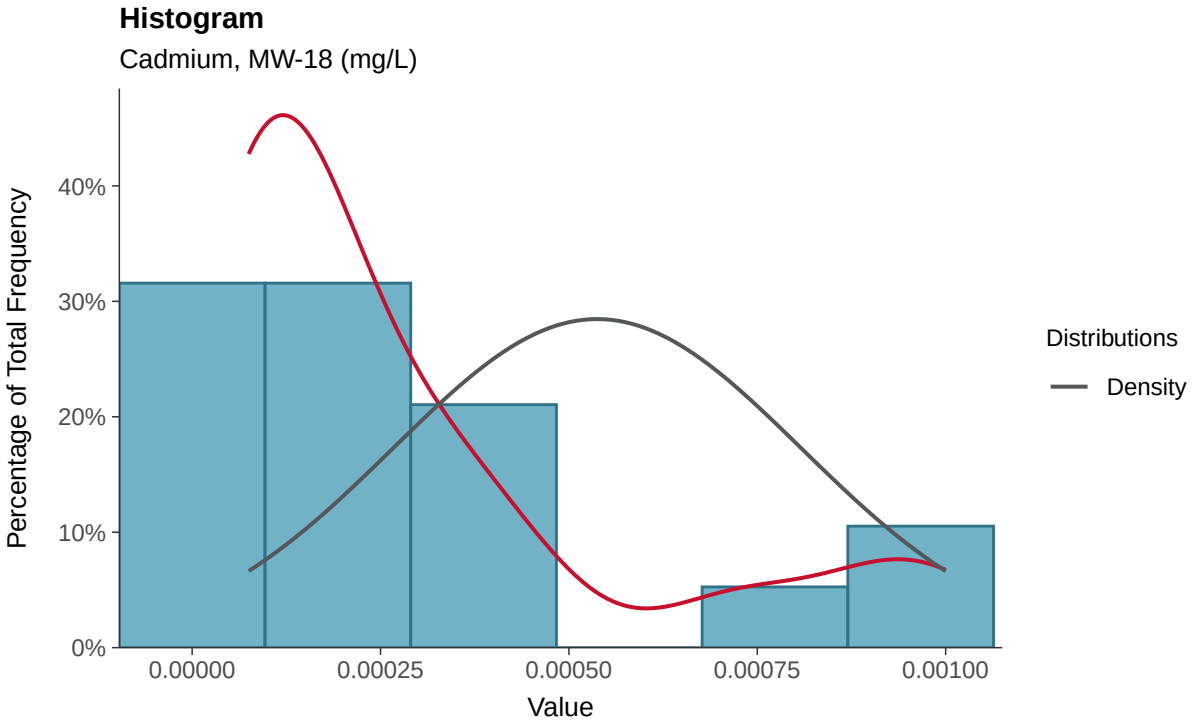
Beryllium, MW-18 (mg/L)



Appendix IV: Cadmium, MW-18

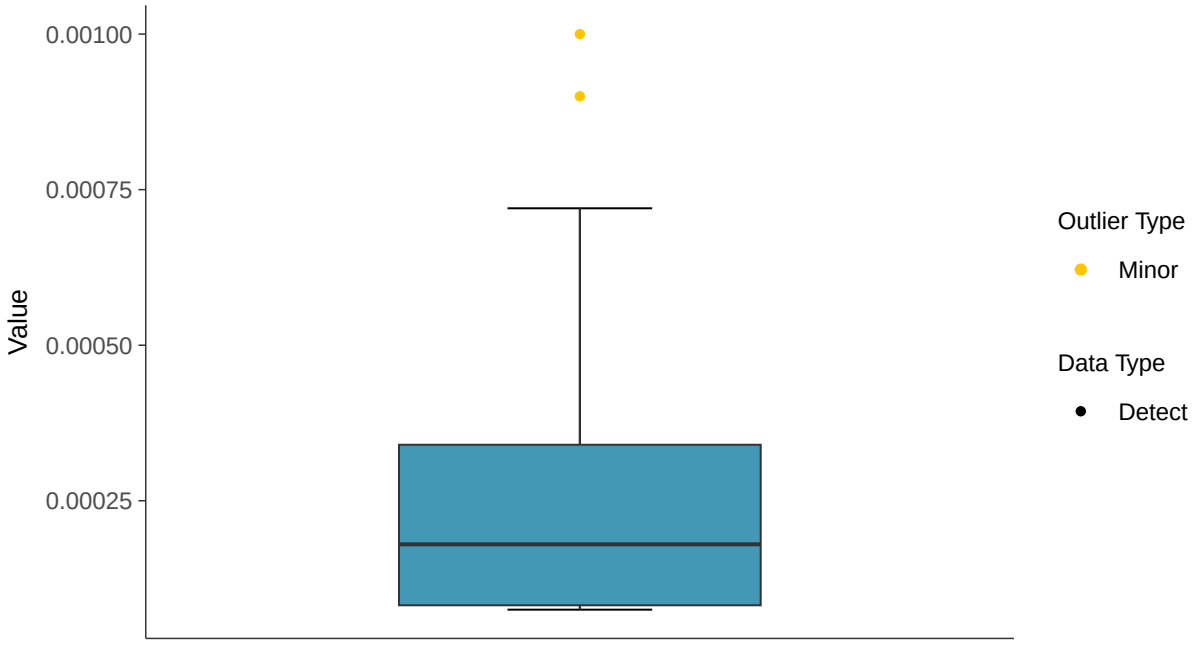
ID: 28_1_4_106





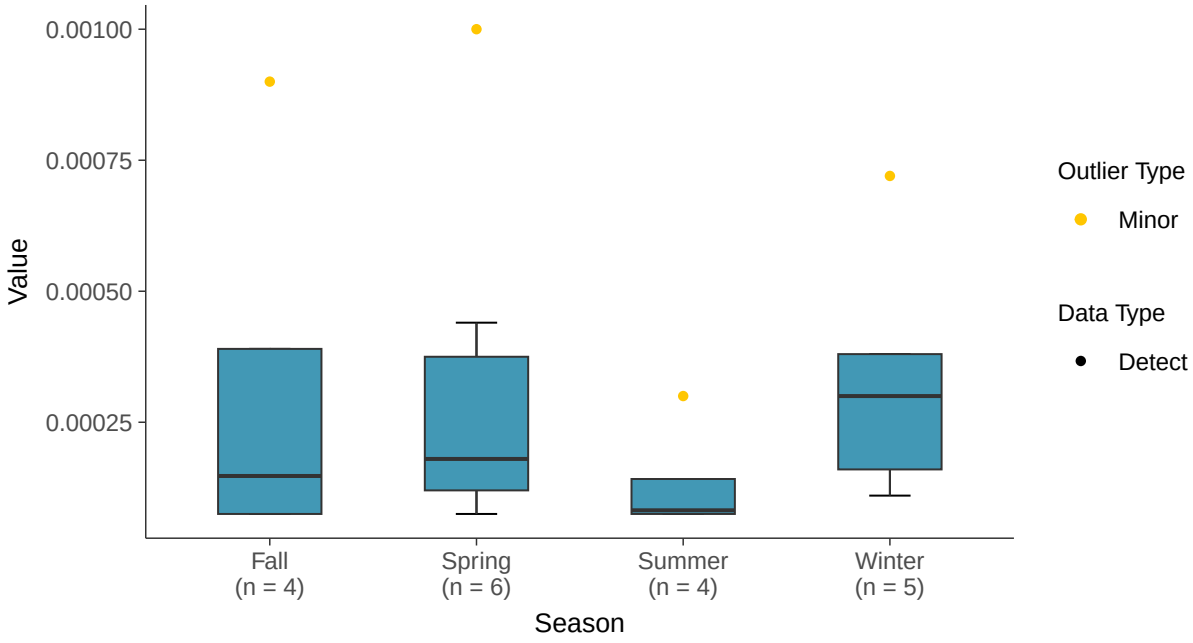
Boxplot

Cadmium, MW-18 (mg/L)



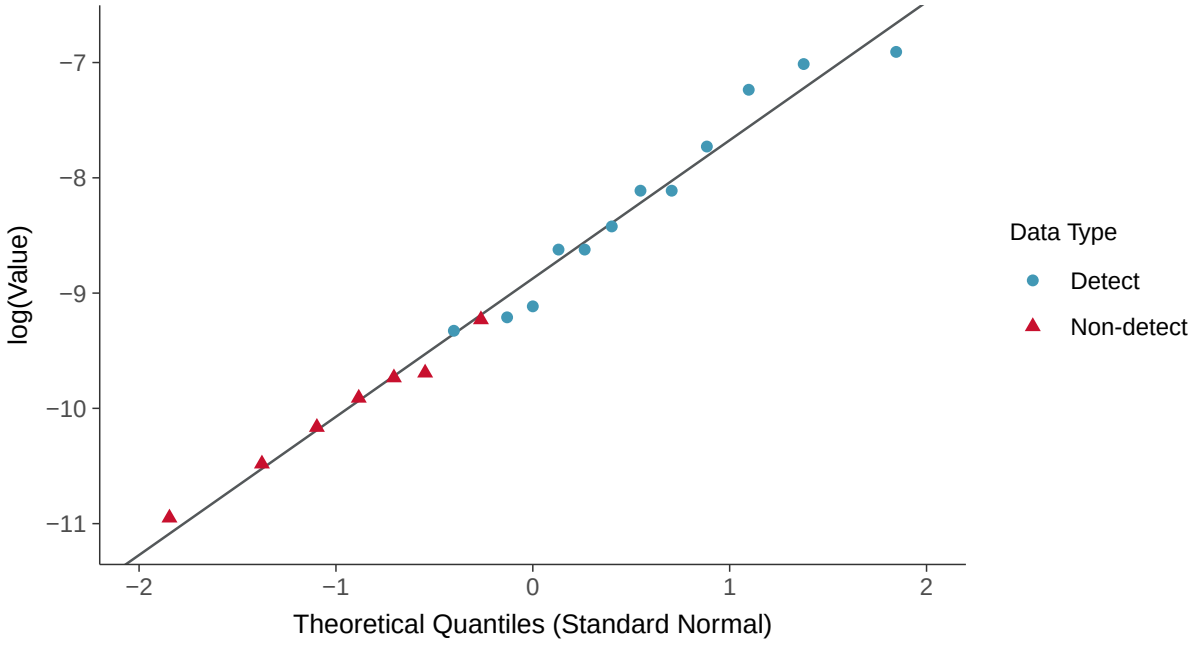
Boxplot by Season

Cadmium, MW-18 (mg/L)



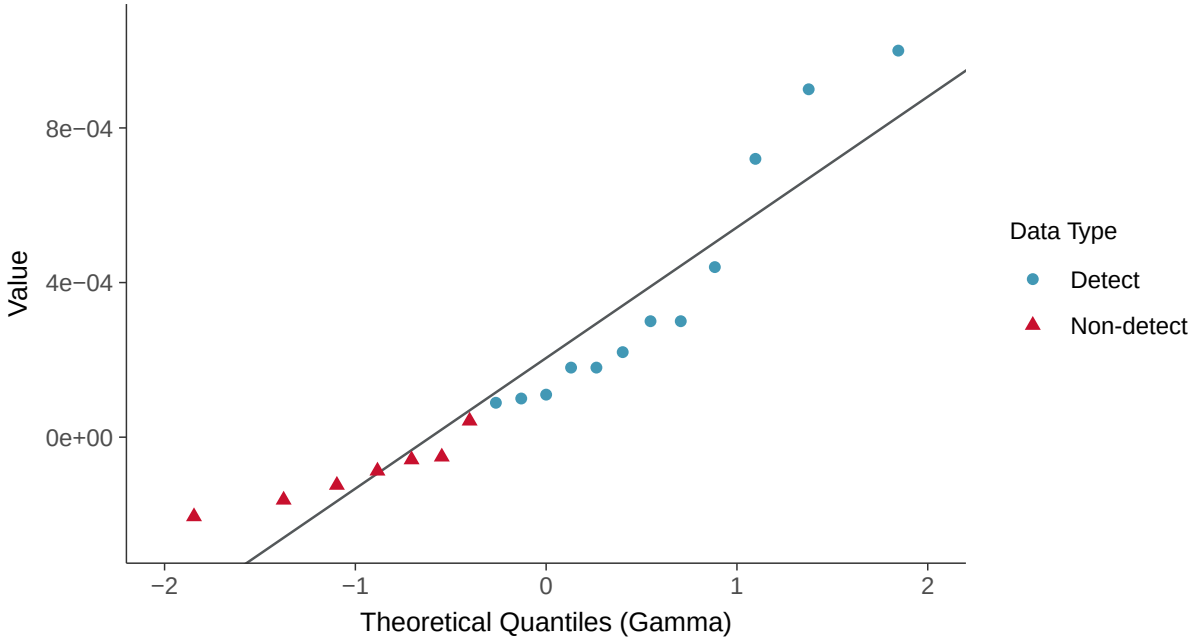
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-18 (mg/L)



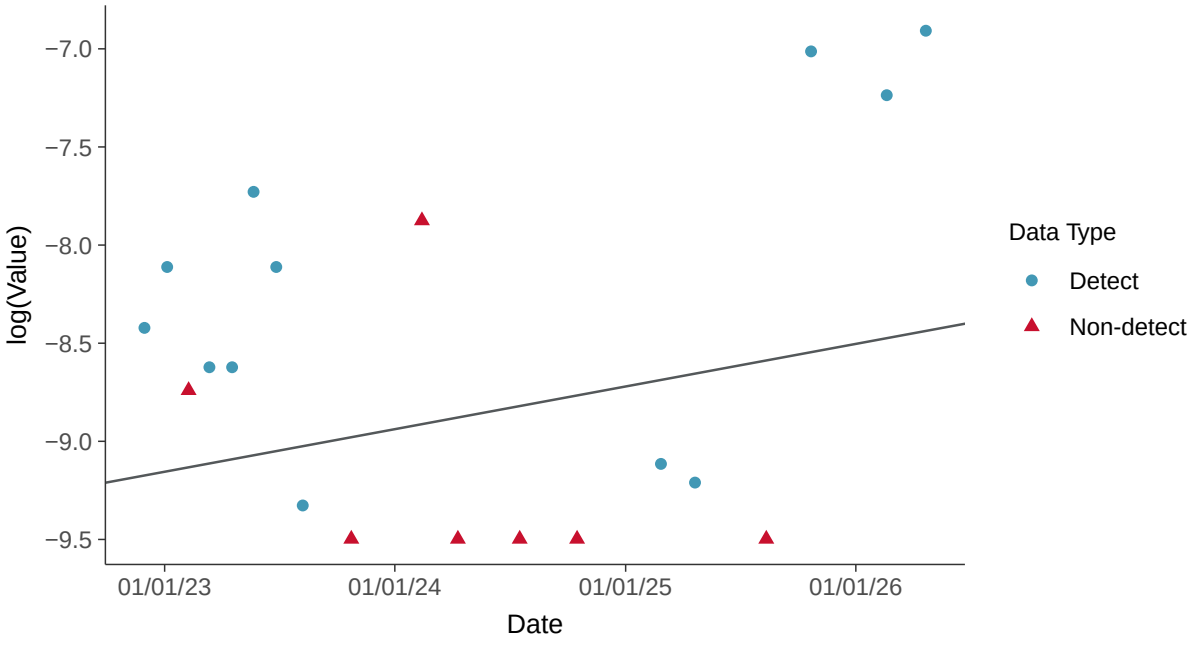
Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-18 (mg/L)



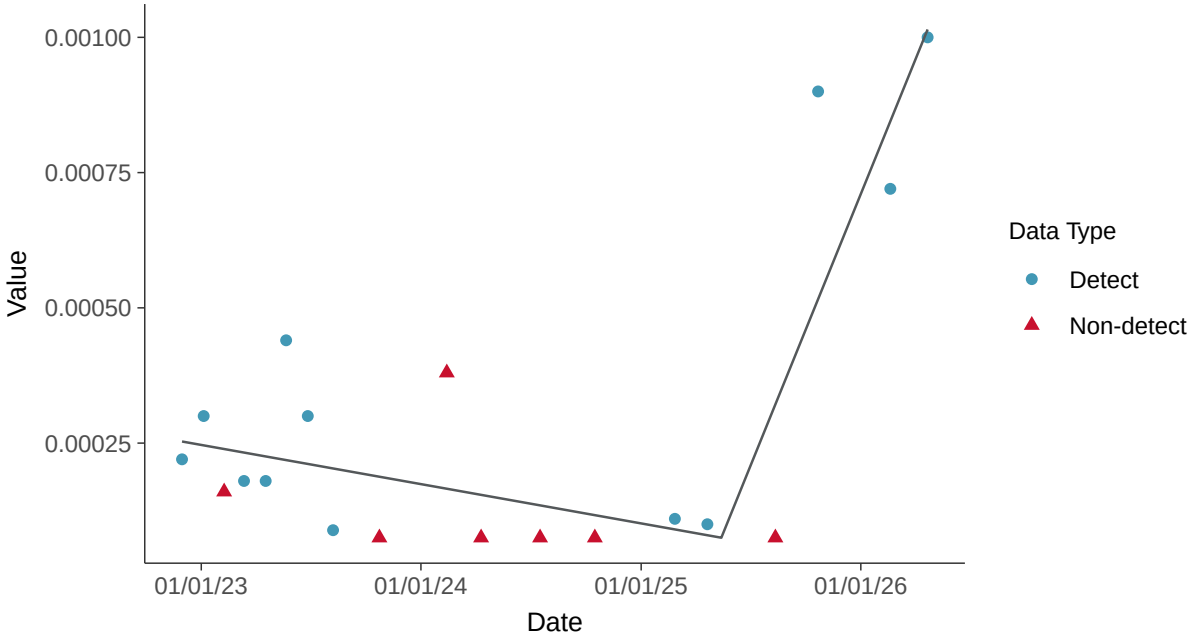
Trend Regression: Lognormal MLE

Cadmium, MW-18 (mg/L)



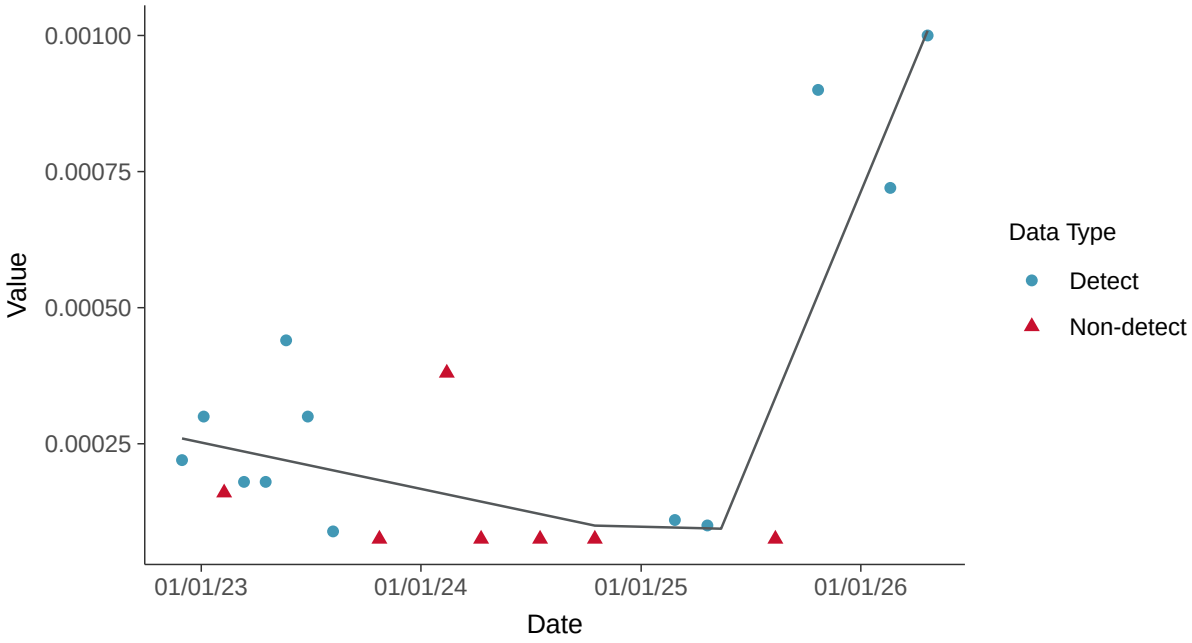
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-18 (mg/L)

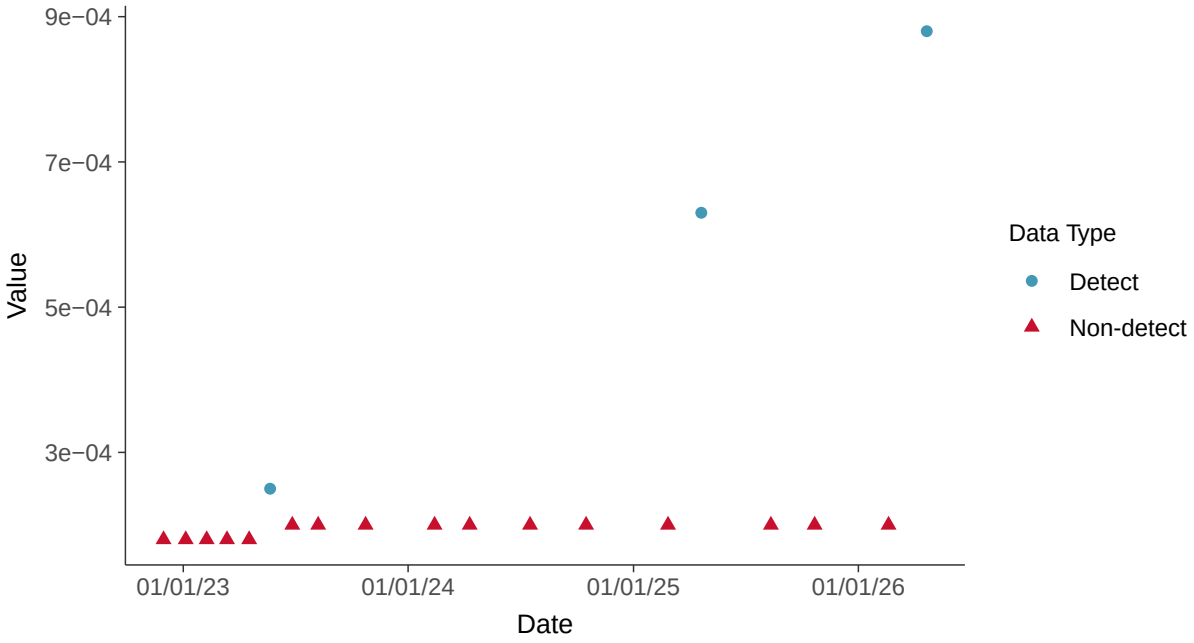


Appendix IV: Chromium, Total, MW-18

ID: 28_1_4_109

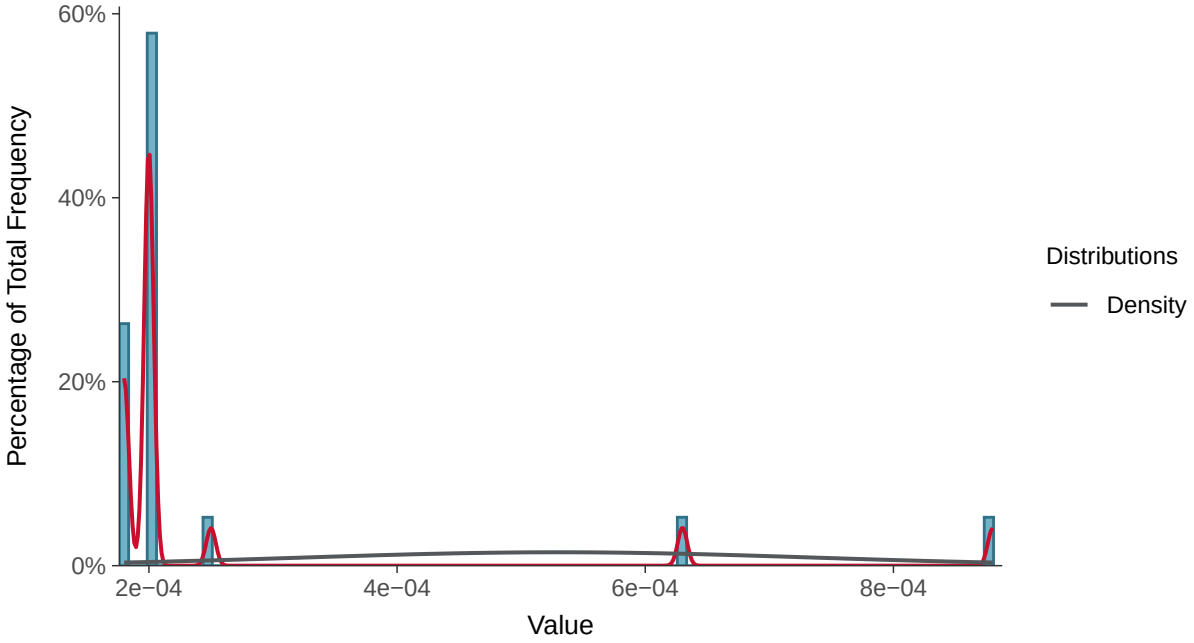
Scatter Plot

Chromium, Total, MW-18 (mg/L)



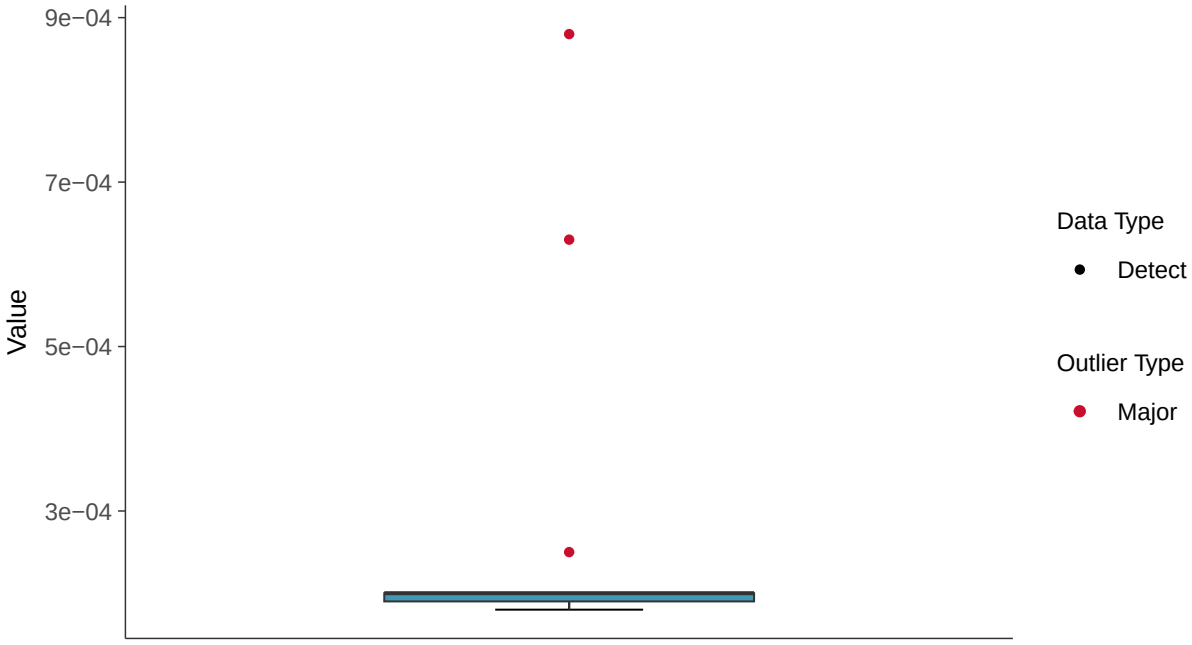
Histogram

Chromium, Total, MW-18 (mg/L)



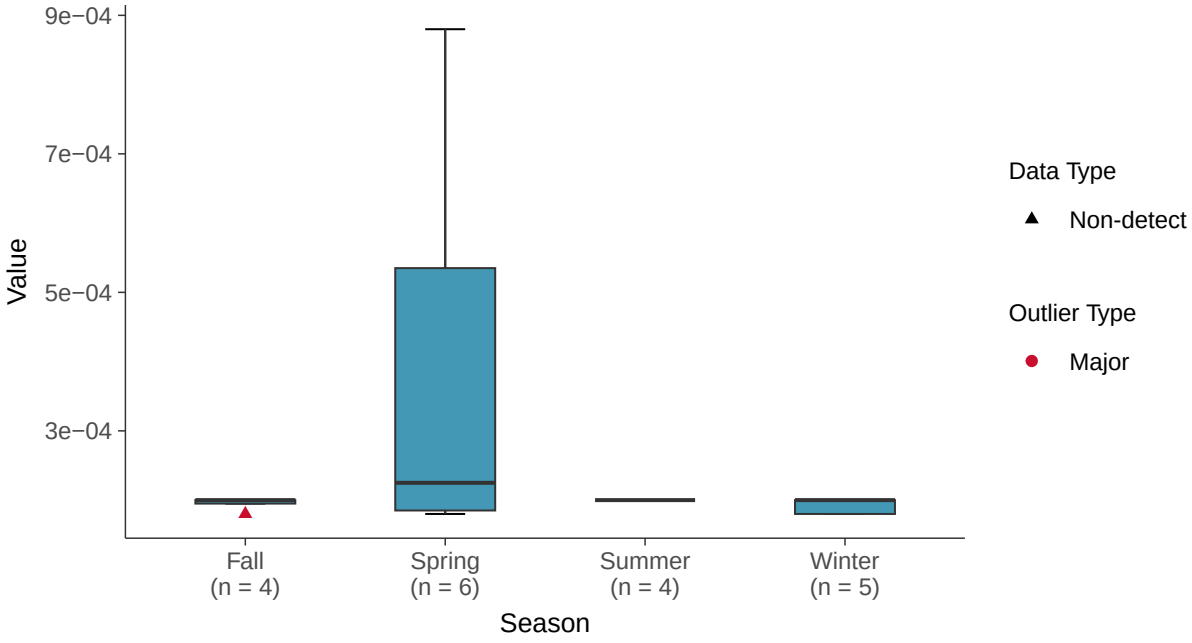
Boxplot

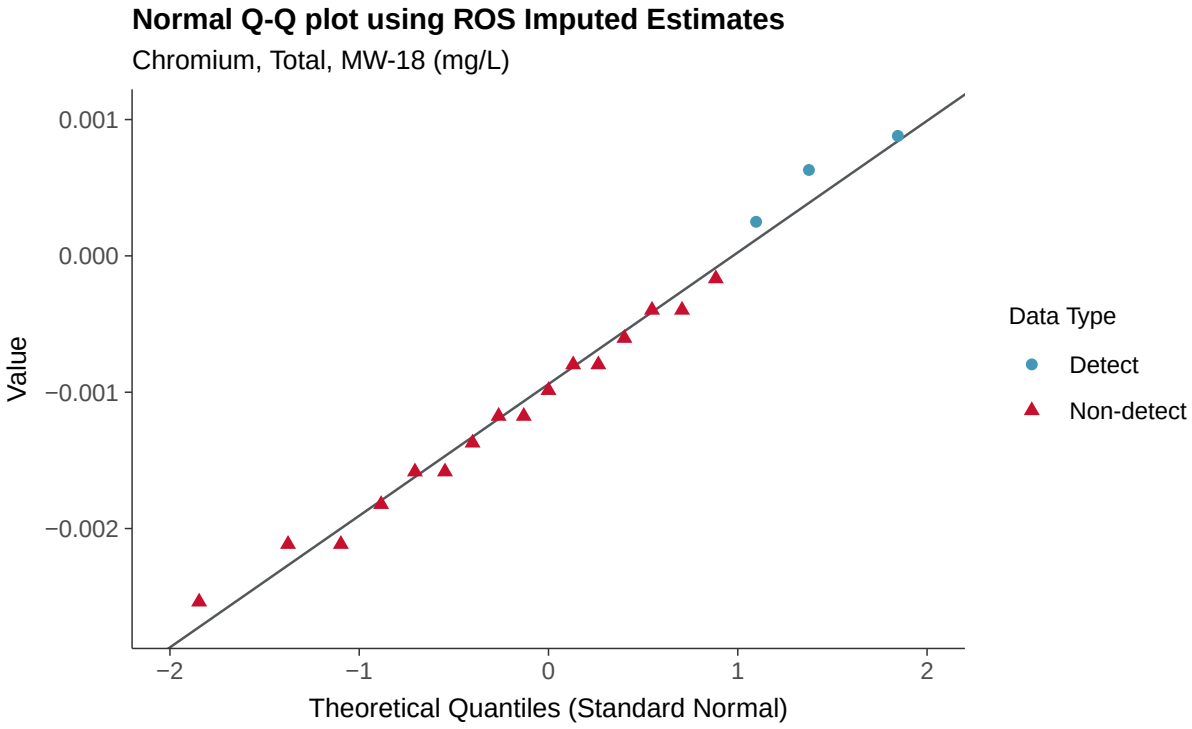
Chromium, Total, MW-18 (mg/L)



Boxplot by Season

Chromium, Total, MW-18 (mg/L)



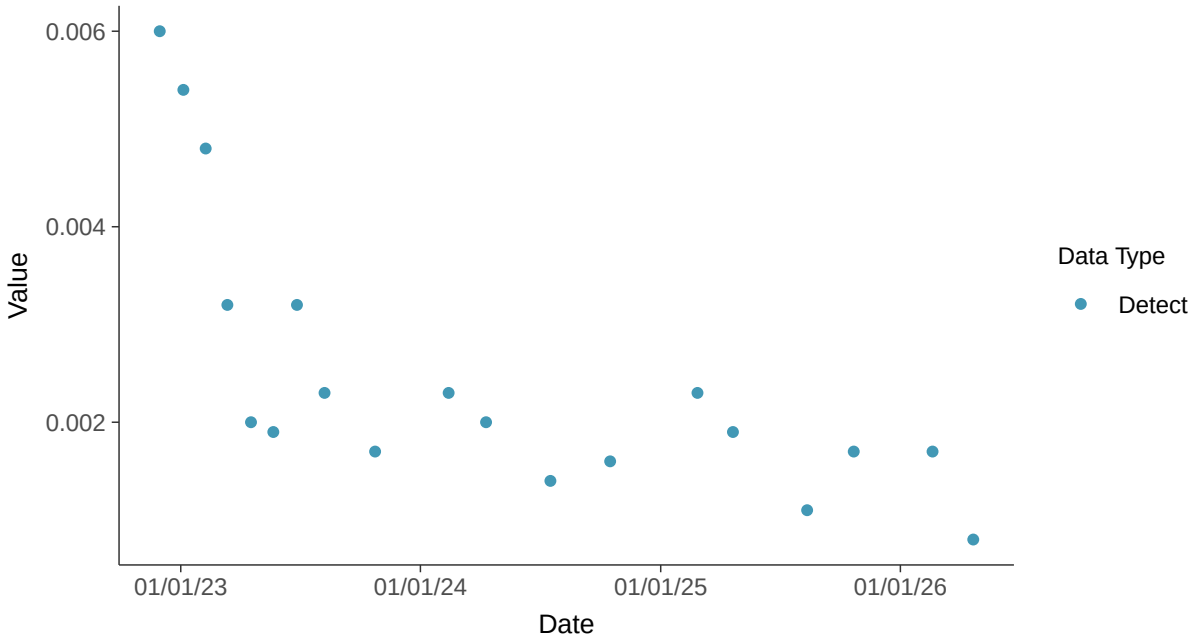

Normal Q-Q plot using ROS Imputed Estimates
Chromium, Total, MW-18 (mg/L)
Value
0.001
0.000
−0.001
−0.002
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect
Non-detect

Appendix IV: Cobalt, MW-18

ID: 28_1_4_110

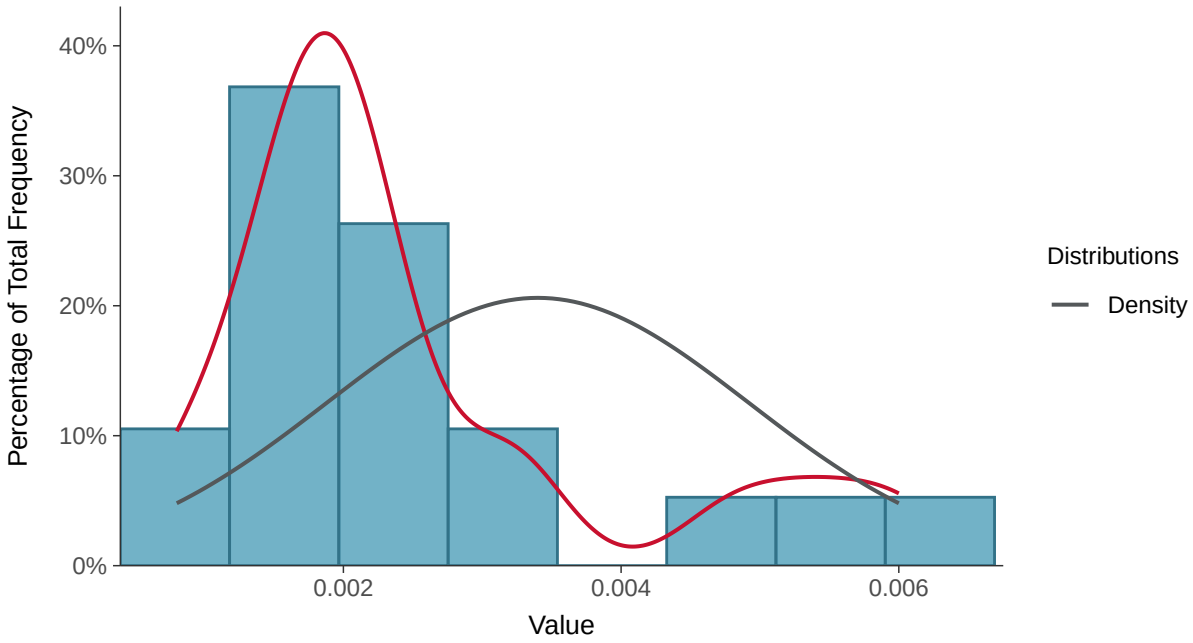
Scatter Plot

Cobalt, MW-18 (mg/L)



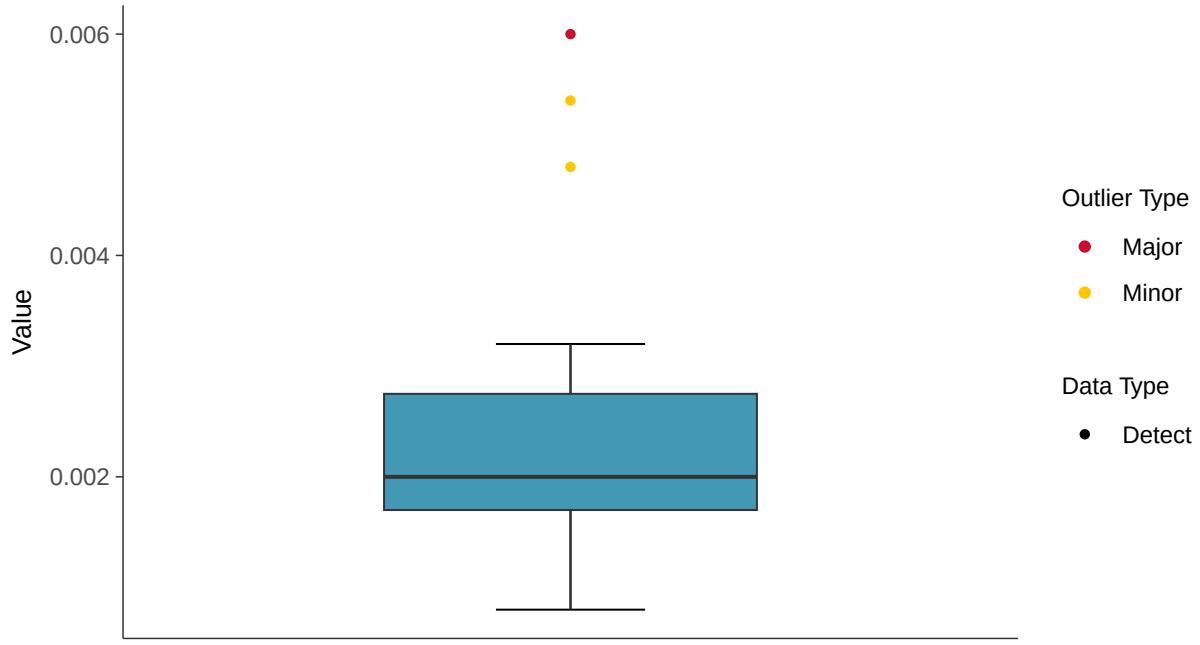
Histogram

Cobalt, MW-18 (mg/L)



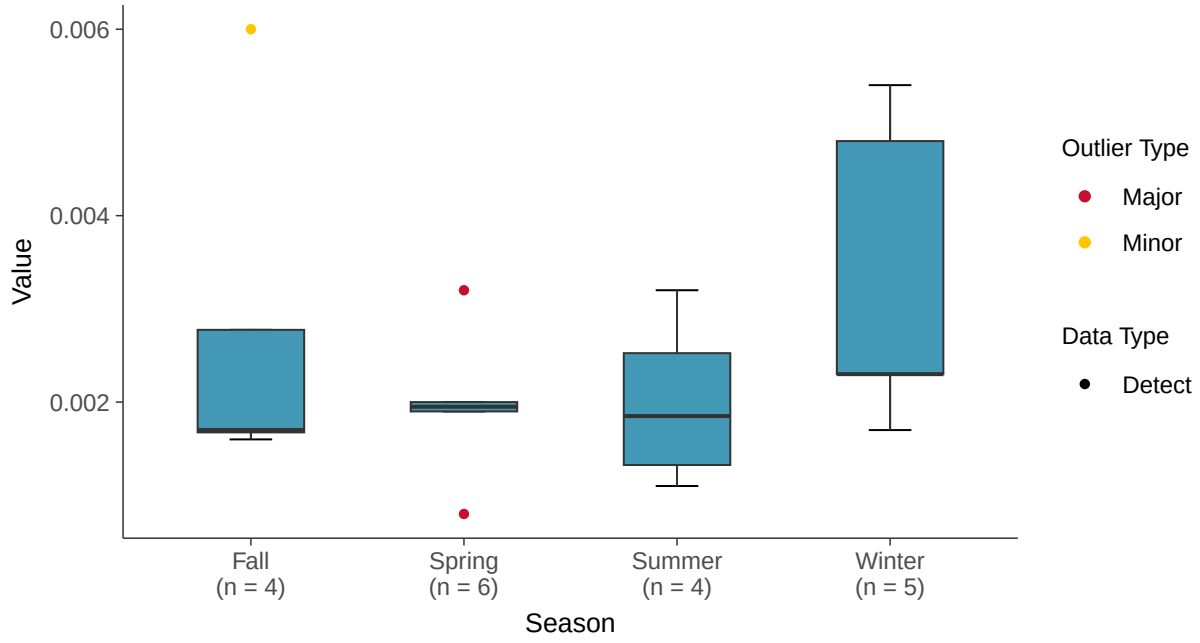
Boxplot

Cobalt, MW-18 (mg/L)



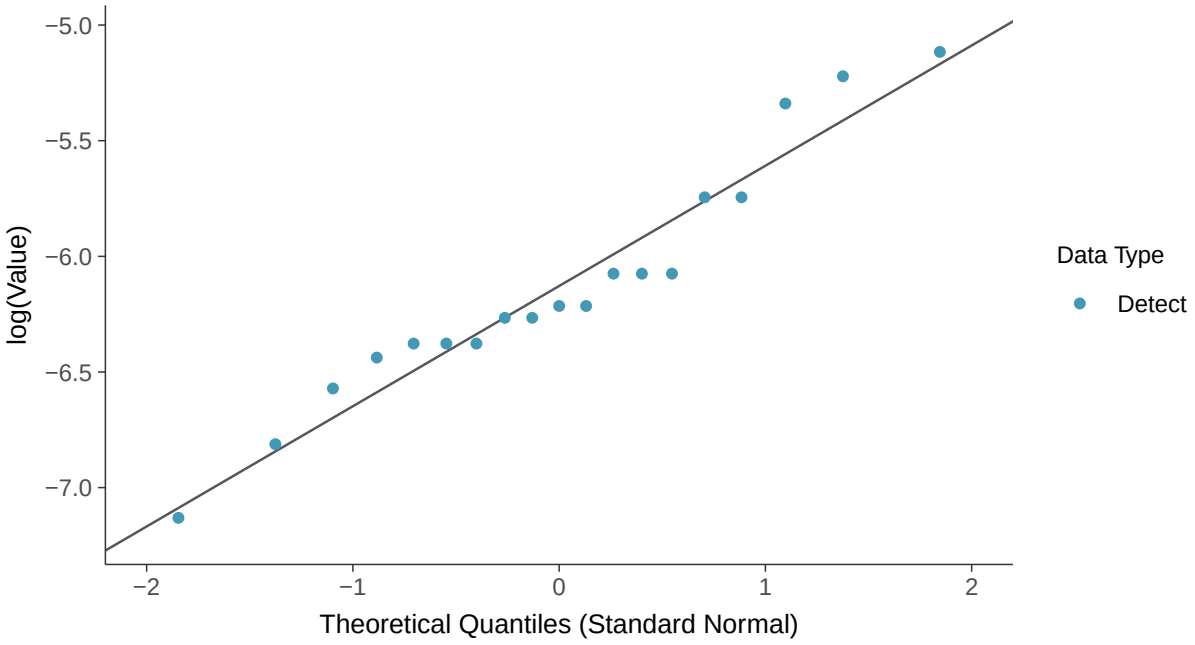
Boxplot by Season

Cobalt, MW-18 (mg/L)



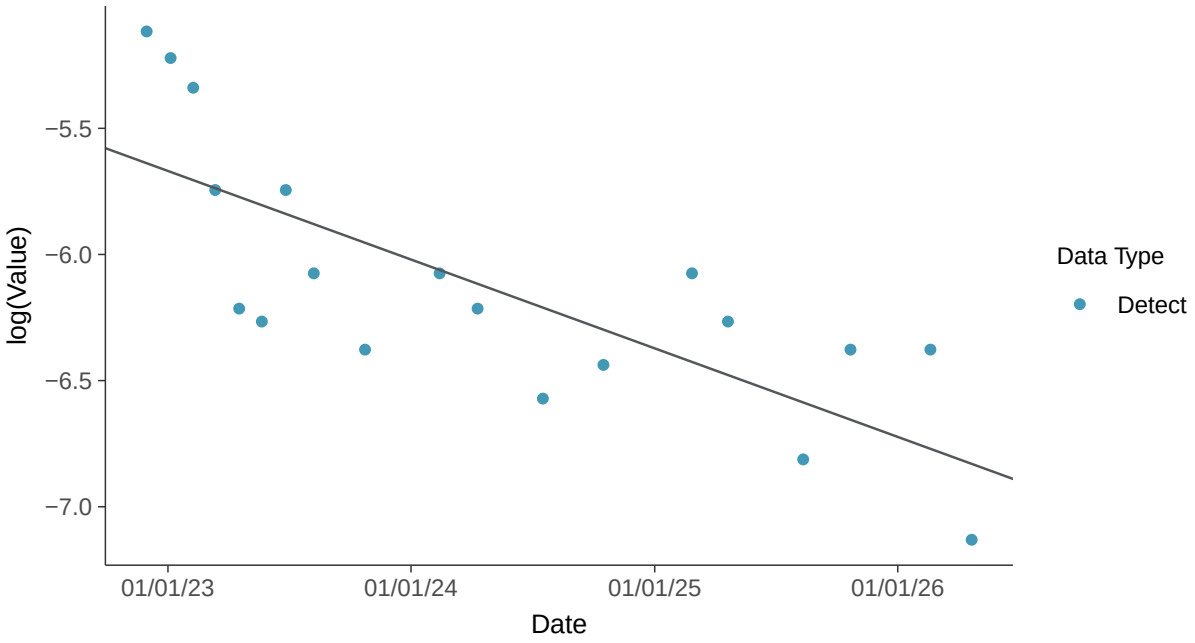
Lognormal Q-Q plot

Cobalt, MW-18 (mg/L)



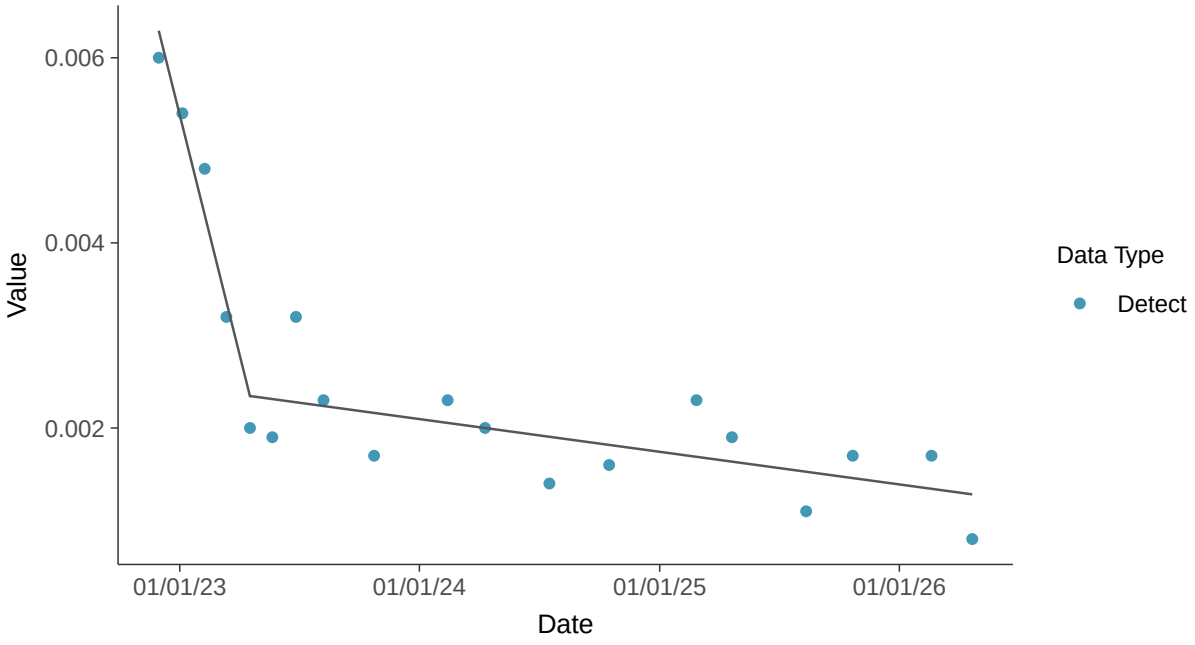
Trend Regression: Lognormal MLE

Cobalt, MW-18 (mg/L)



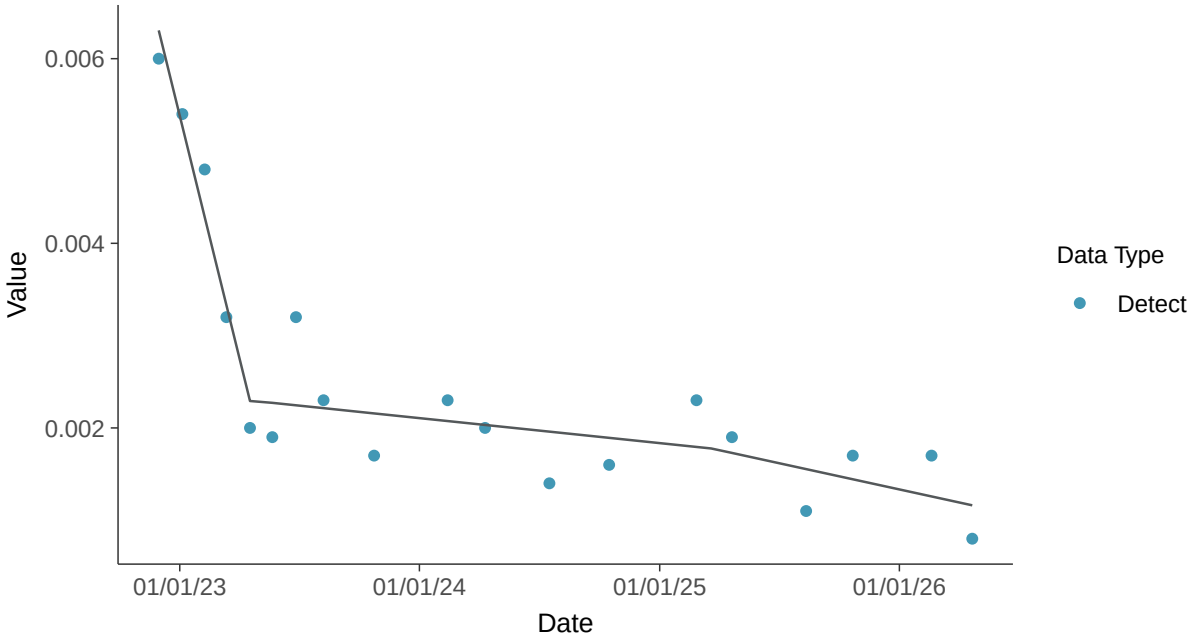
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-18 (mg/L)

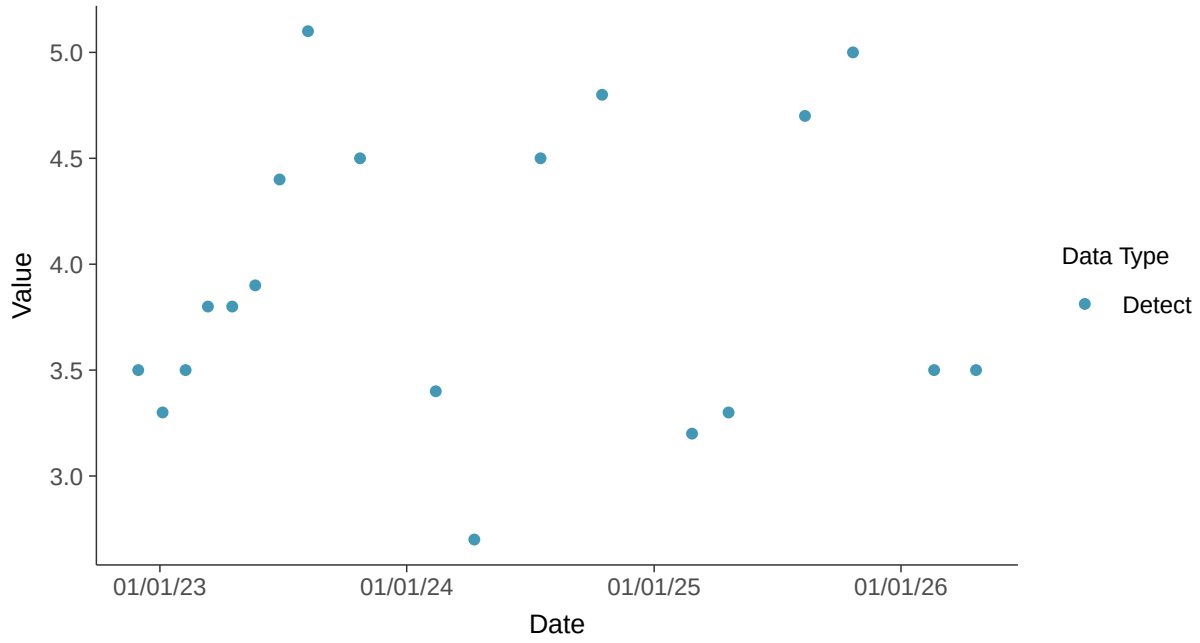


Appendix IV: Fluoride (App IV), MW-18

ID: 28_1_4_113

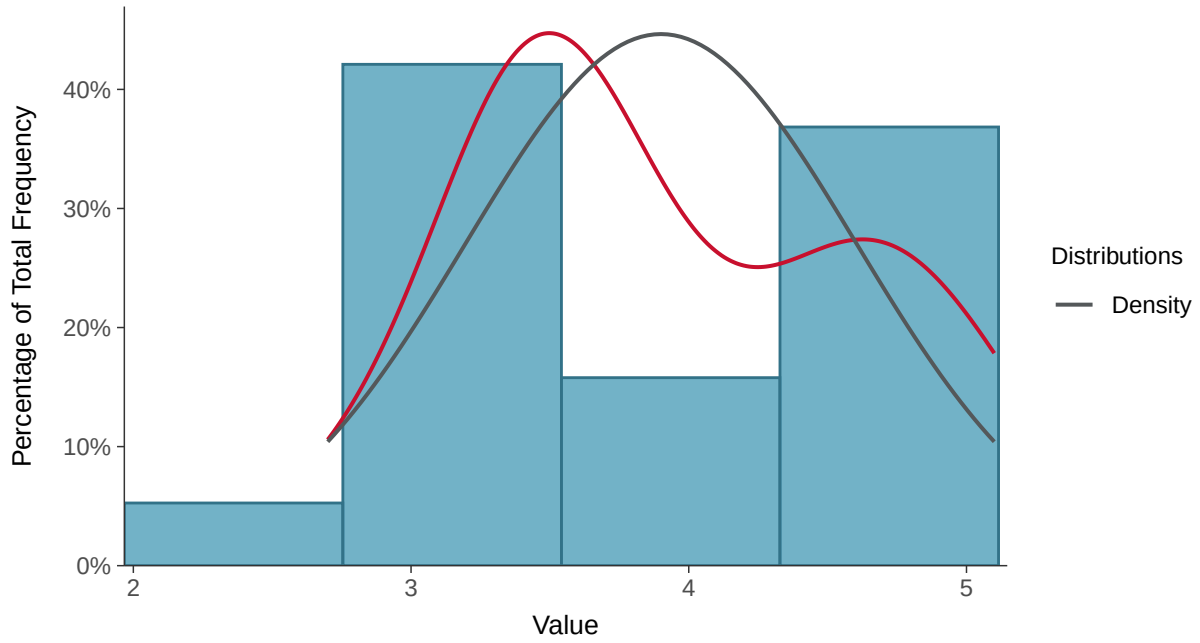
Scatter Plot

Fluoride (App IV), MW-18 (mg/L)



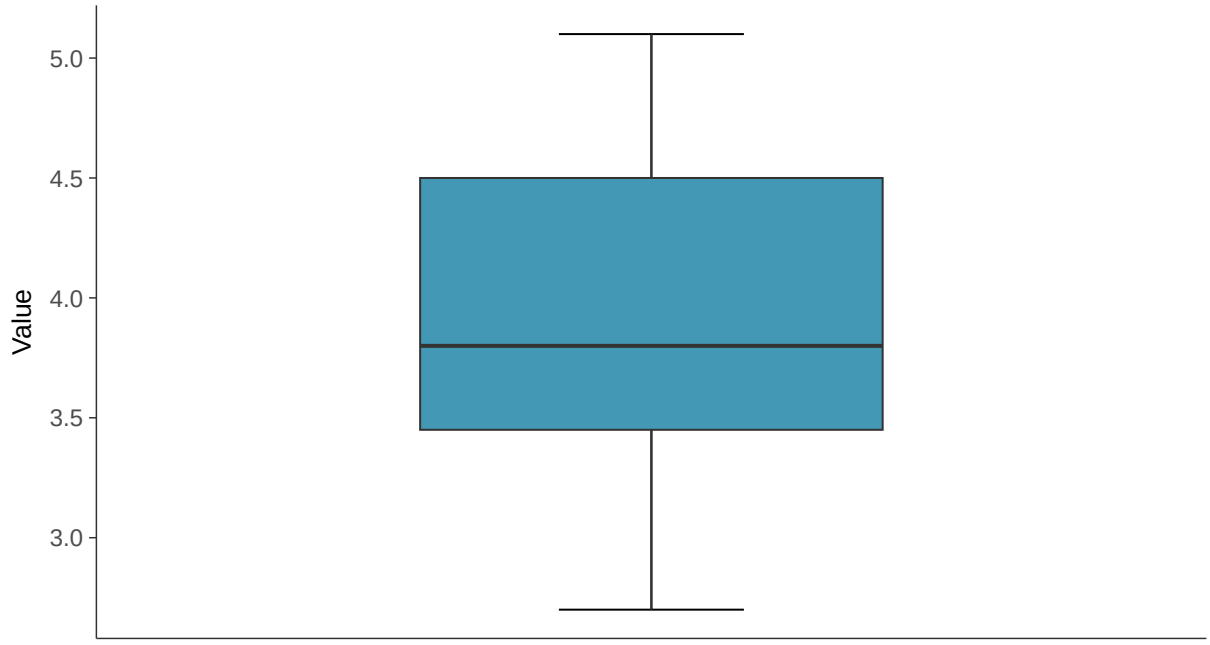
Histogram

Fluoride (App IV), MW-18 (mg/L)



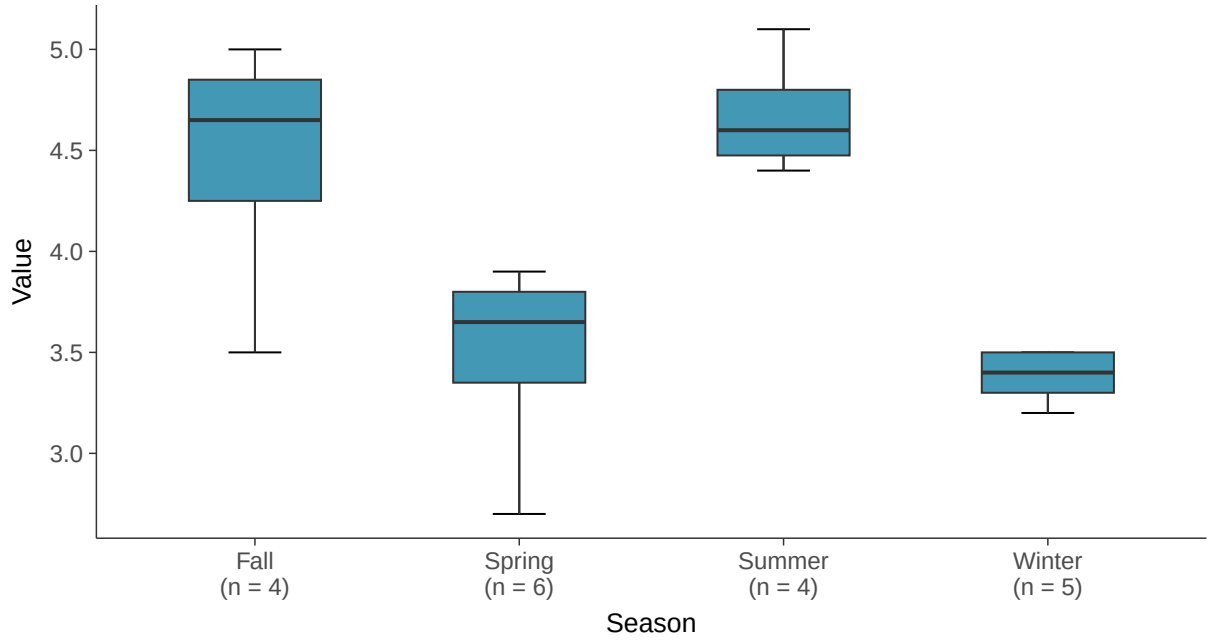
Boxplot

Fluoride (App IV), MW-18 (mg/L)



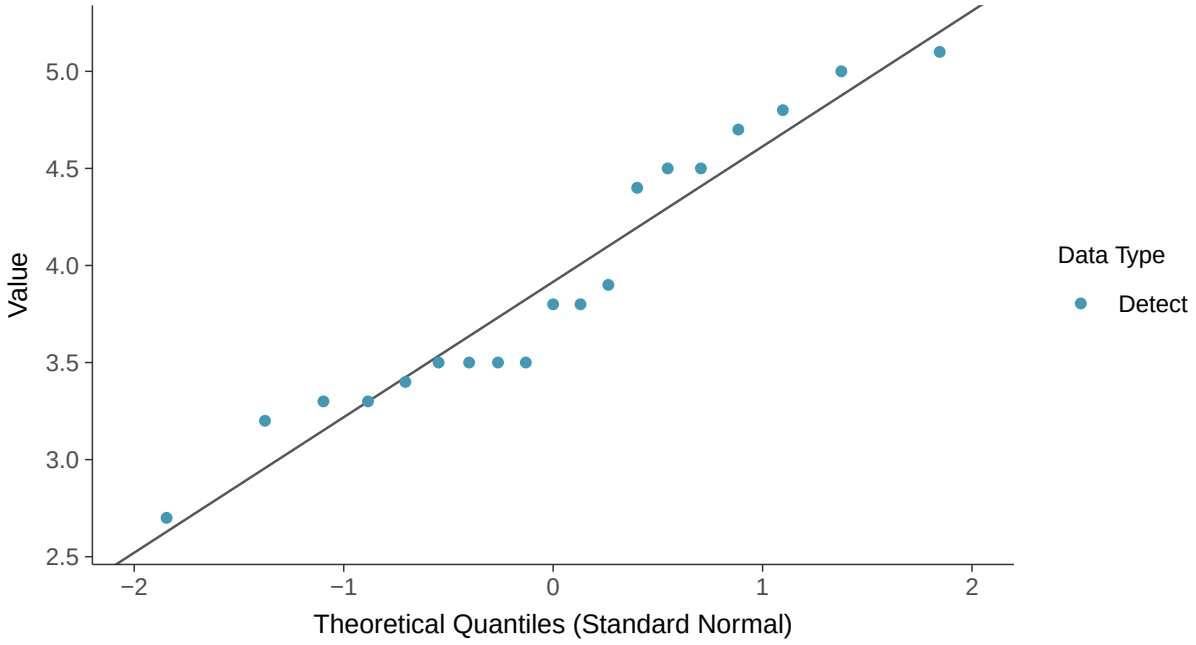
Boxplot by Season

Fluoride (App IV), MW-18 (mg/L)



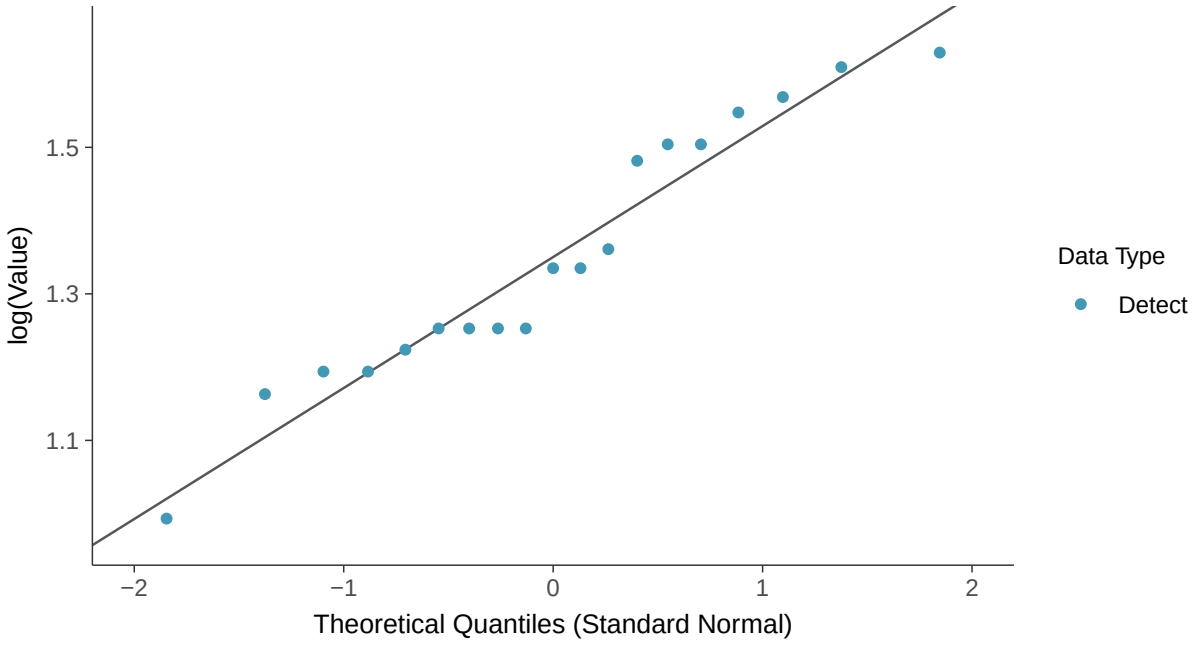
Normal Q-Q plot

Fluoride (App IV), MW-18 (mg/L)



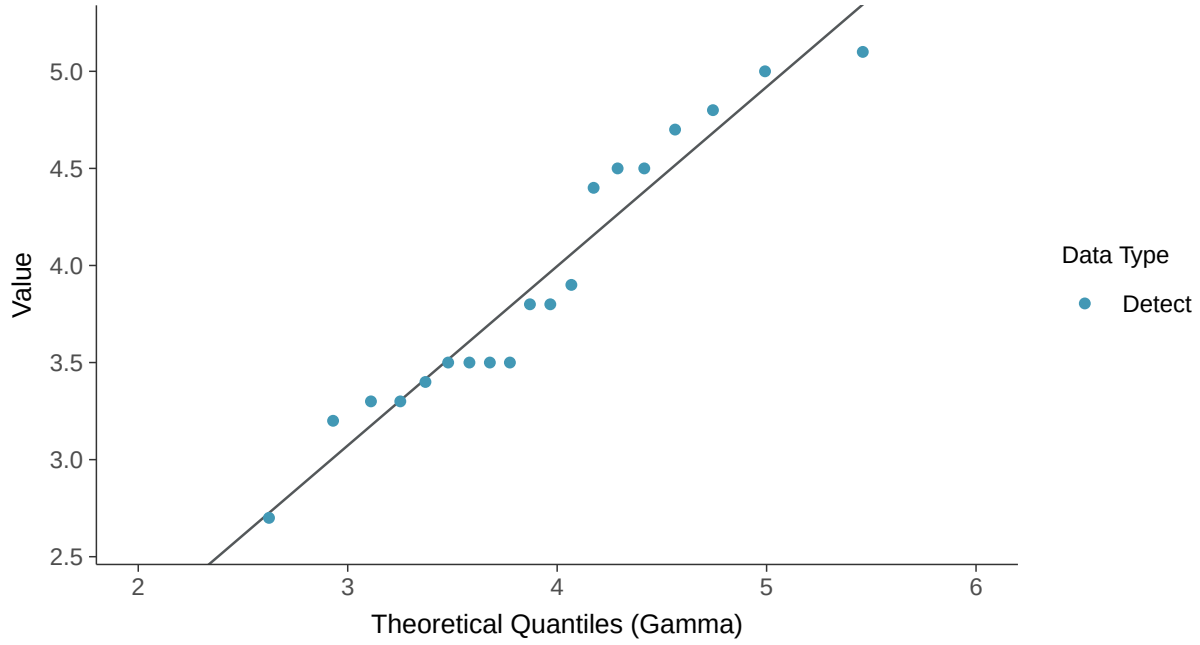
Lognormal Q-Q plot

Fluoride (App IV), MW-18 (mg/L)



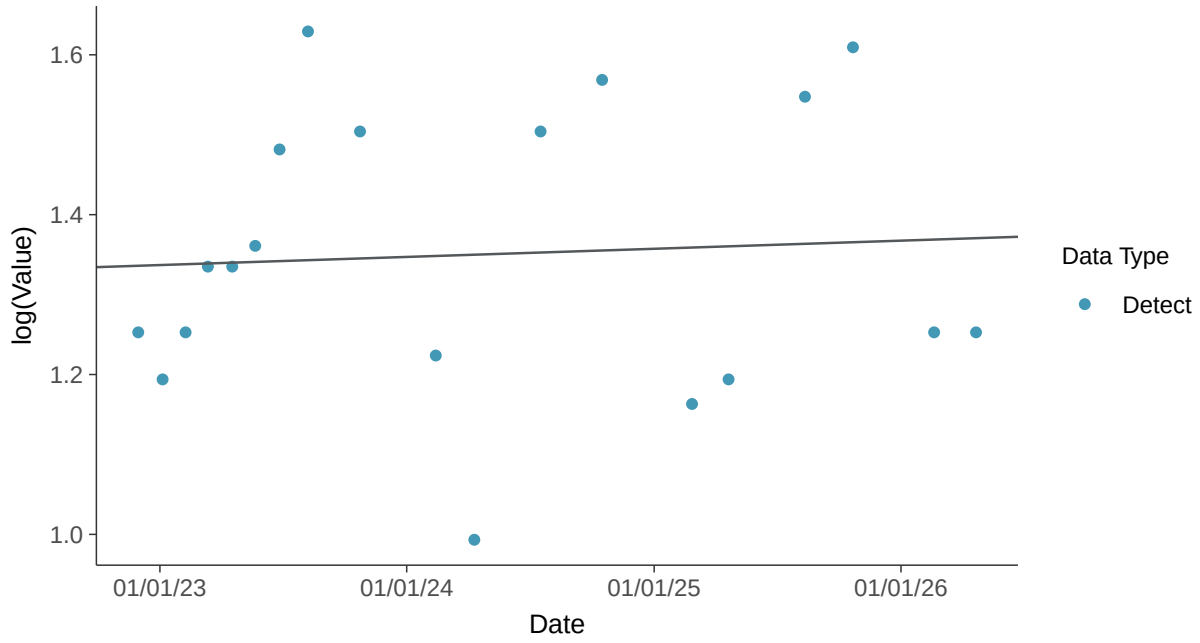
Gamma Q-Q plot

Fluoride (App IV), MW-18 (mg/L)



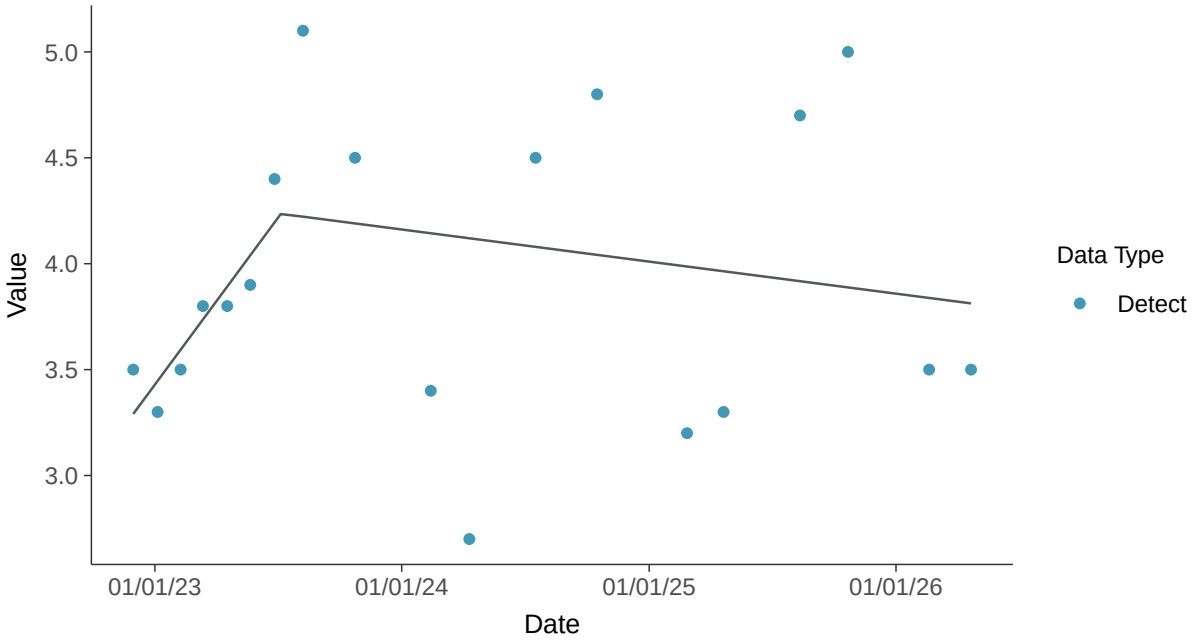
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-18 (mg/L)



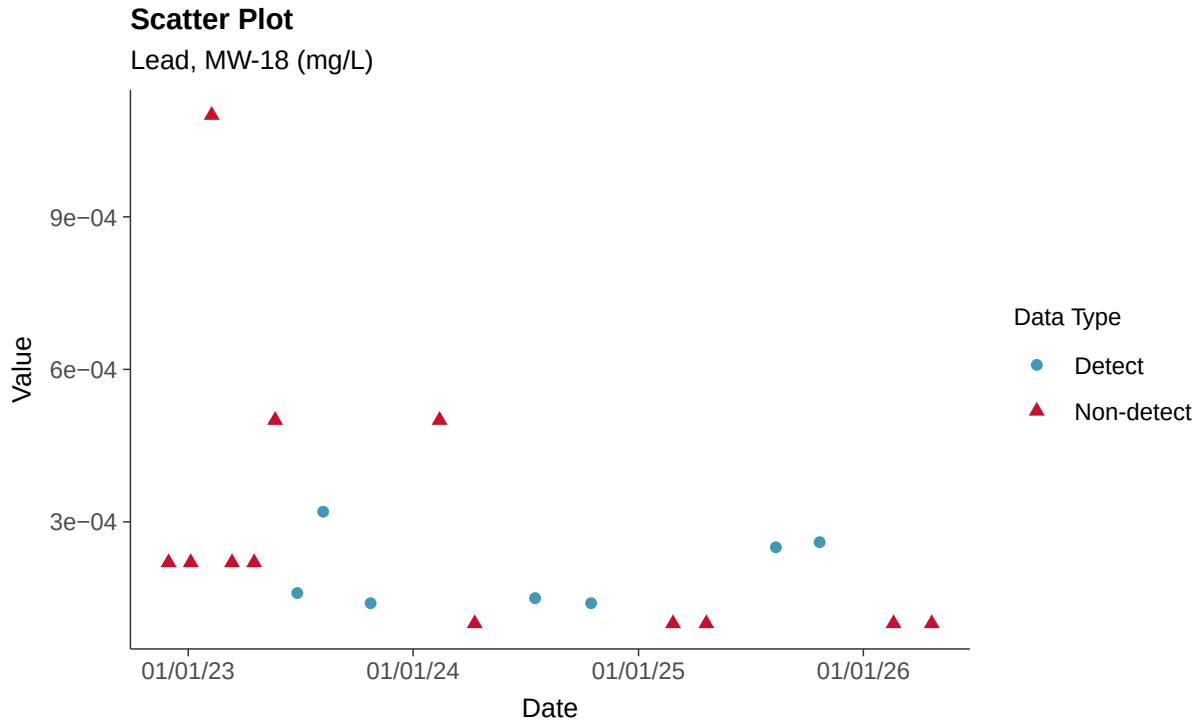
Trend Regression: Piecewise Linear-Linear

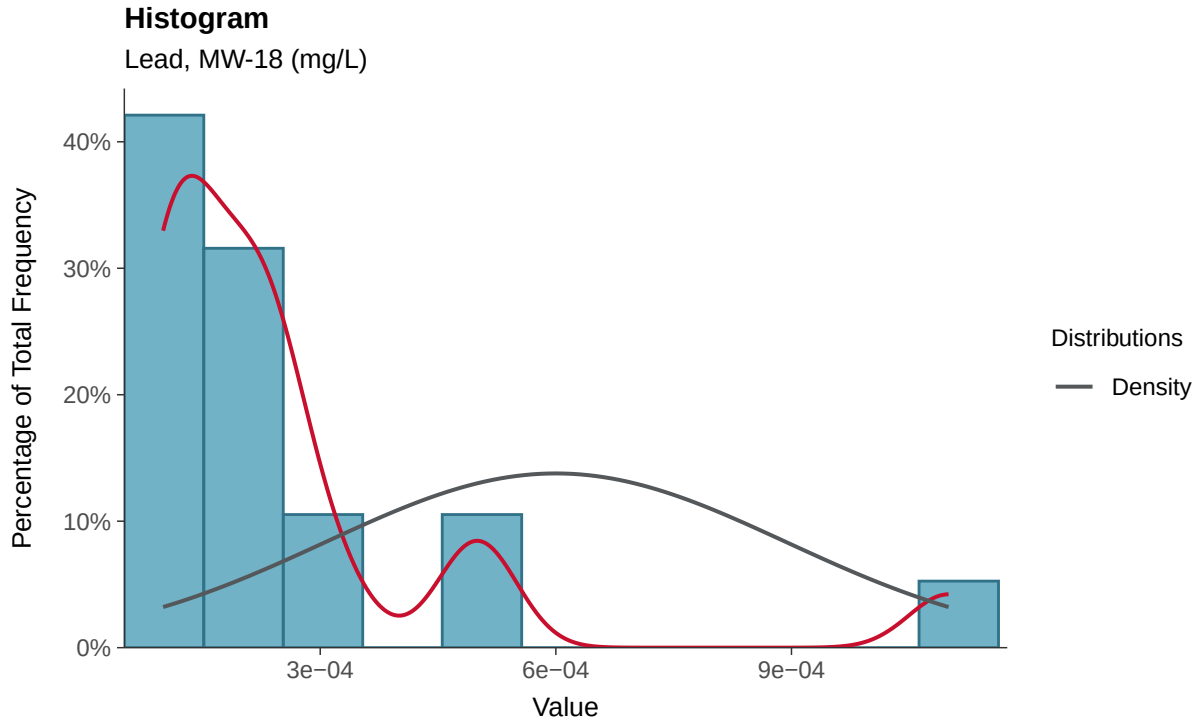
Fluoride (App IV), MW-18 (mg/L)



Appendix IV: Lead, MW-18

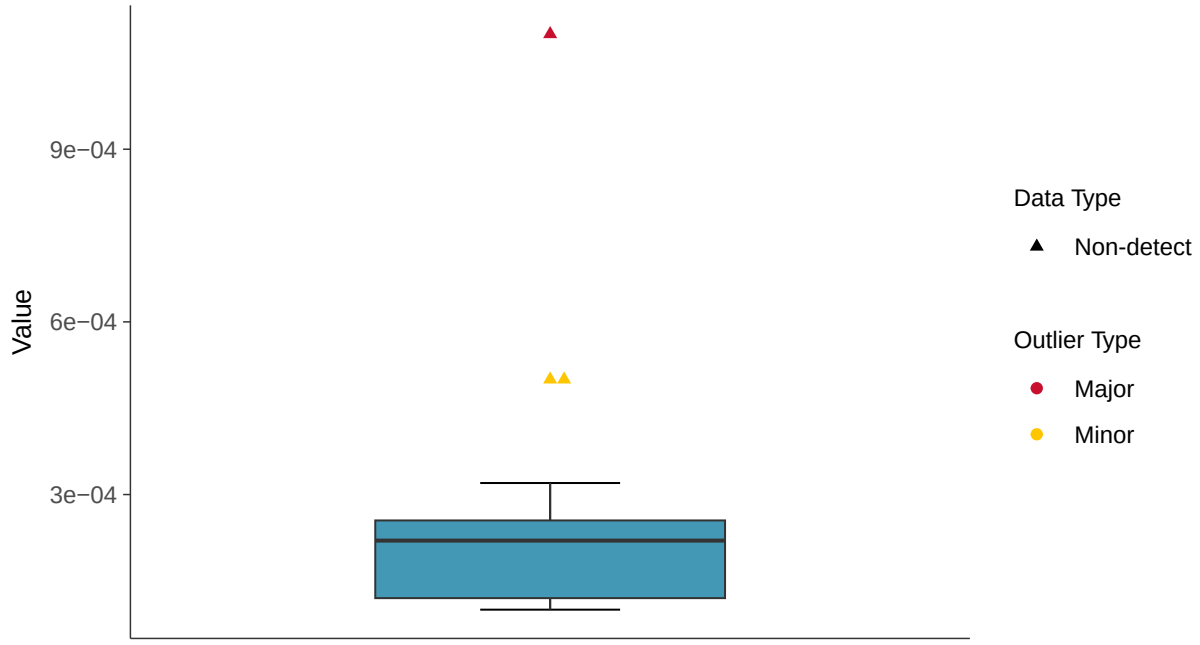
ID: 28_1_4_115





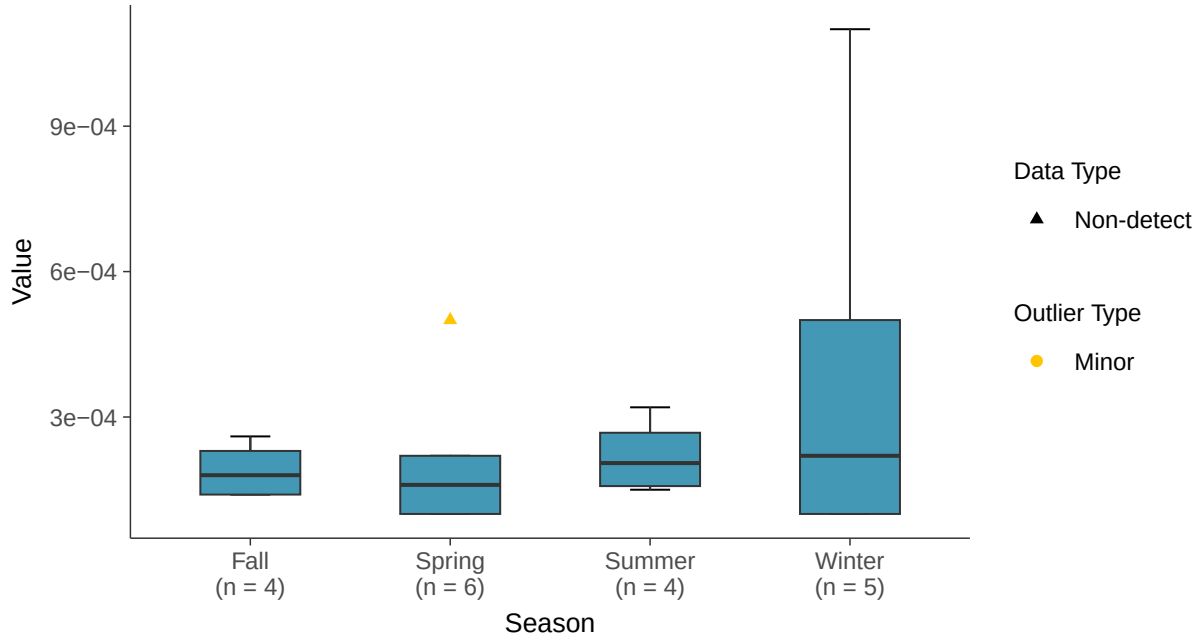
Boxplot

Lead, MW-18 (mg/L)



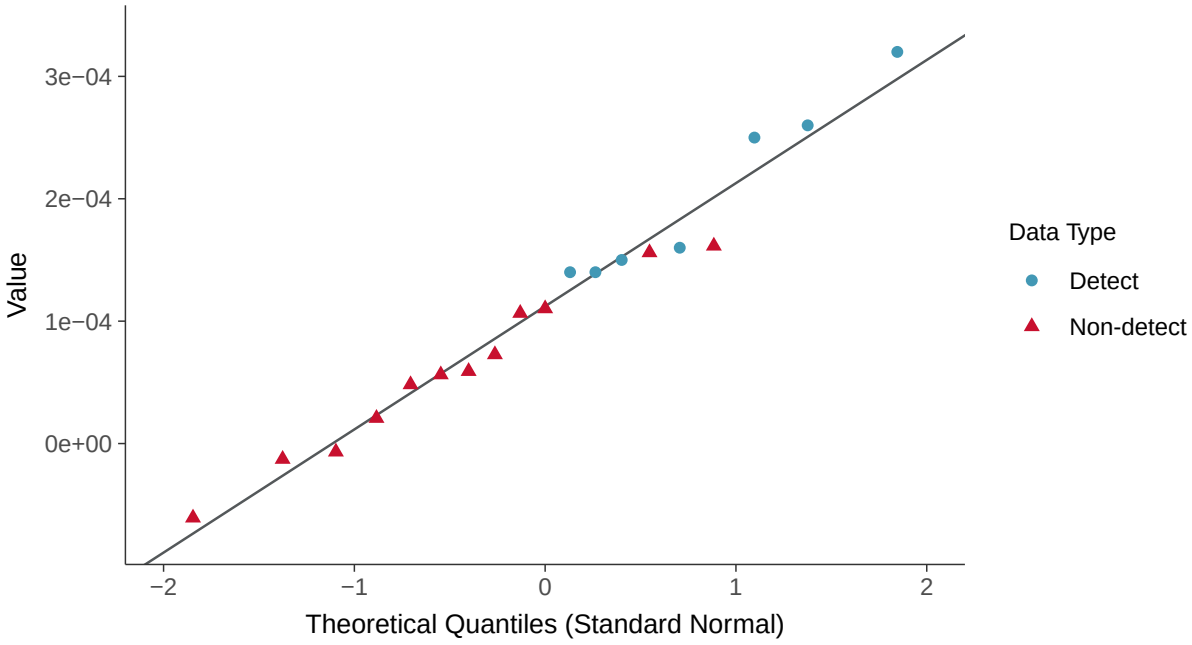
Boxplot by Season

Lead, MW-18 (mg/L)



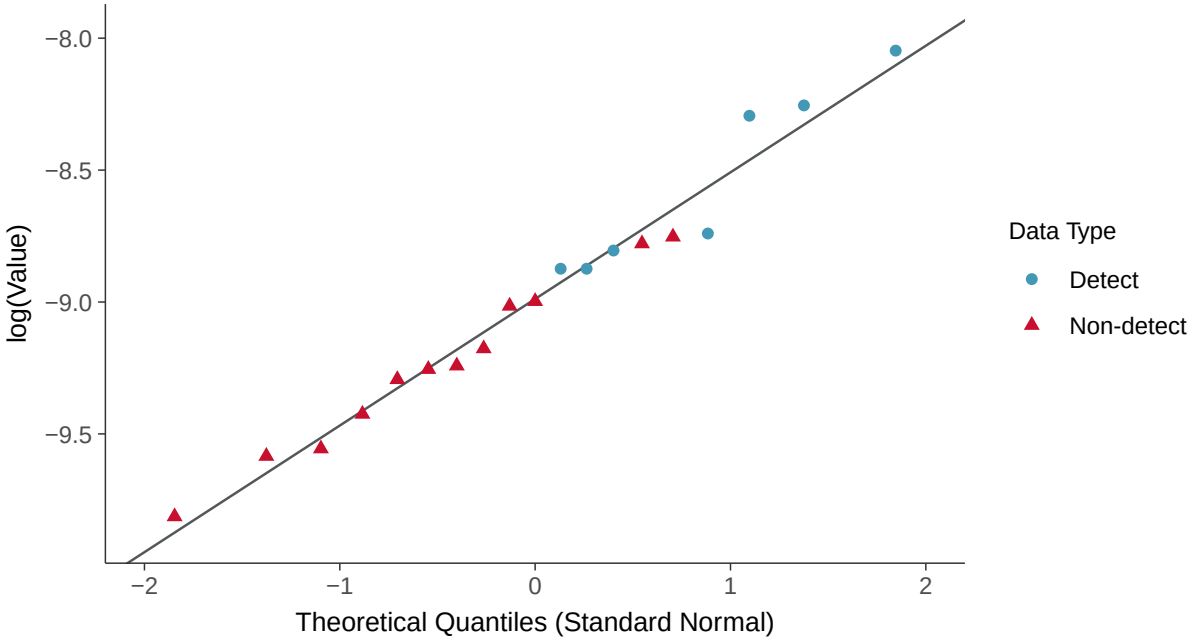
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-18 (mg/L)



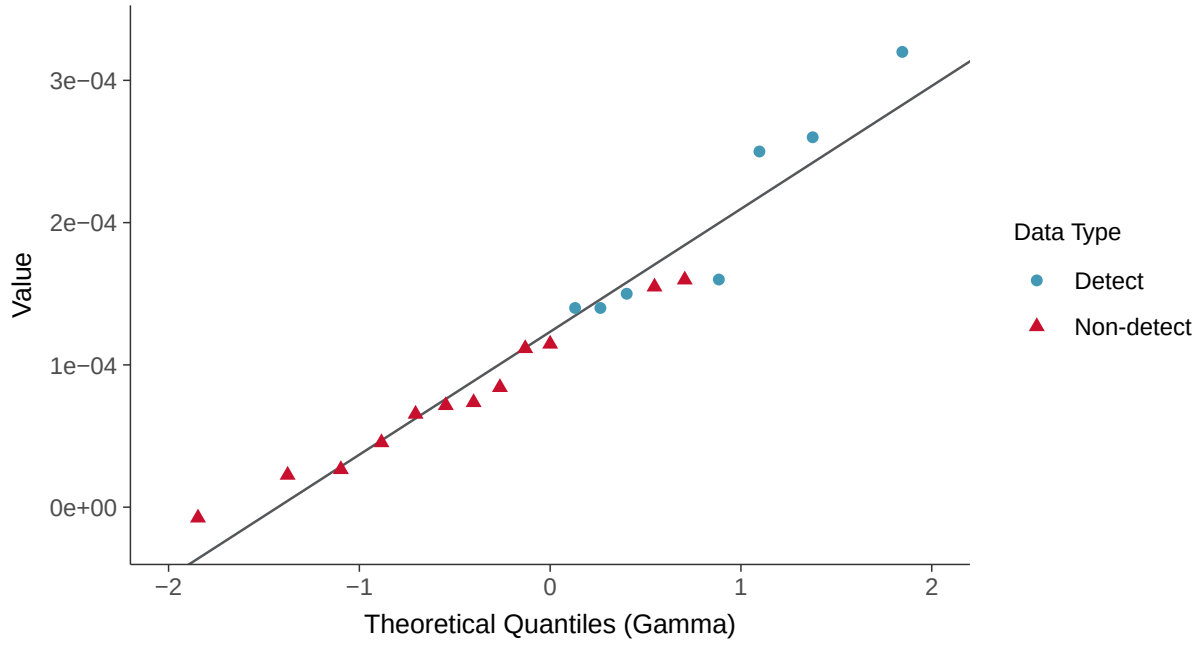
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-18 (mg/L)



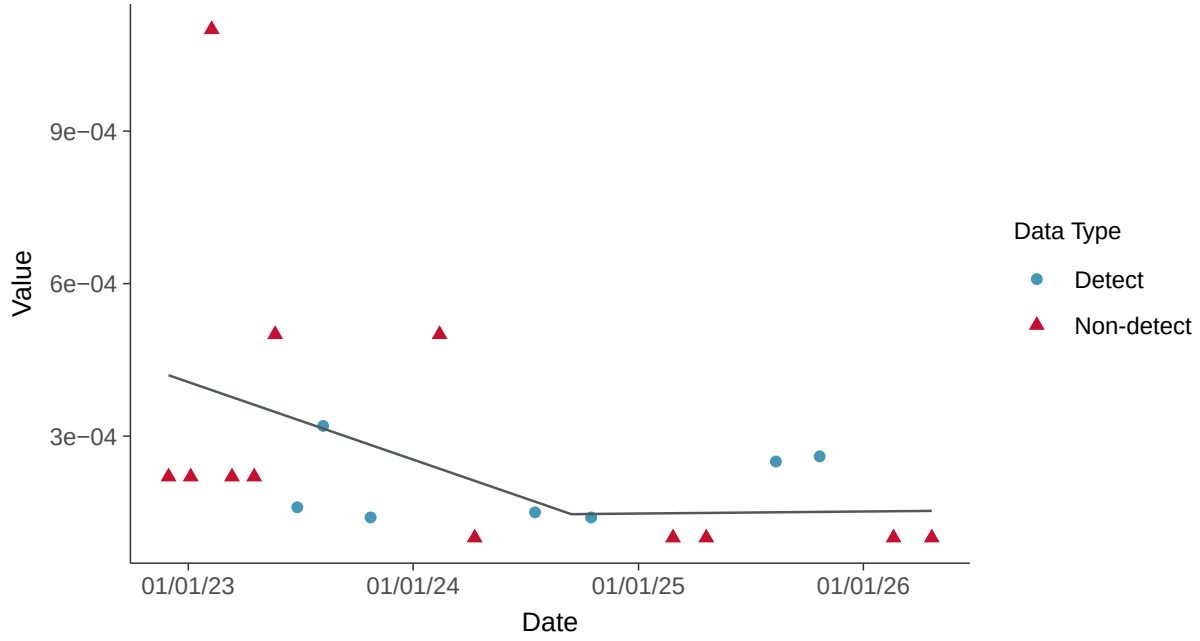
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-18 (mg/L)



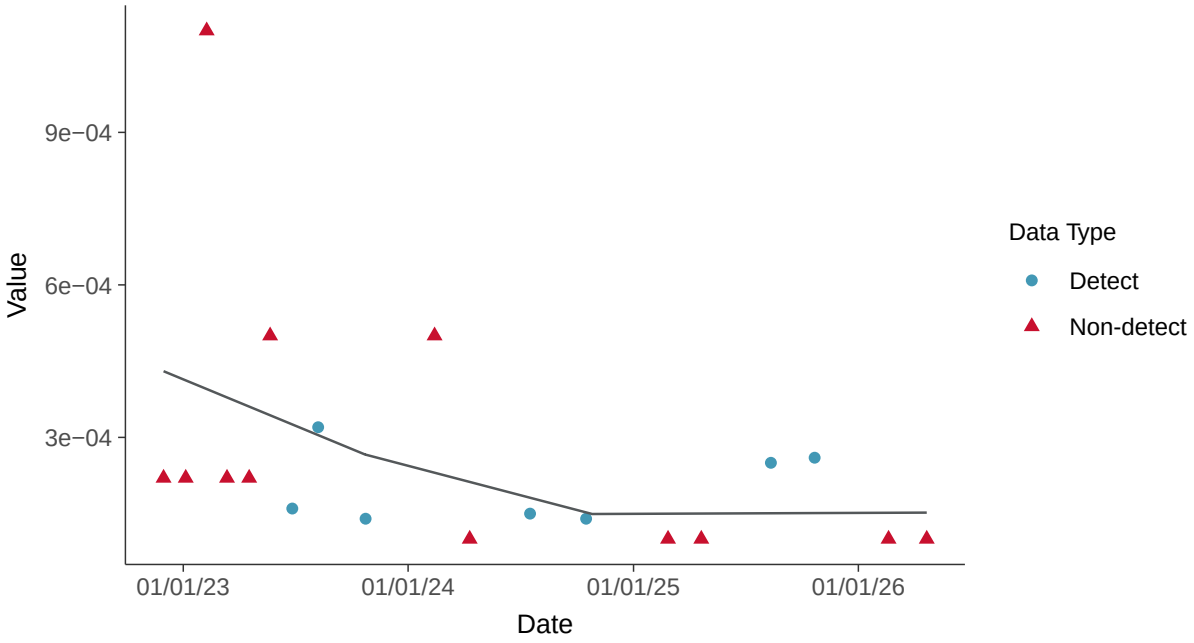
Trend Regression: Piecewise Linear-Linear

Lead, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-18 (mg/L)

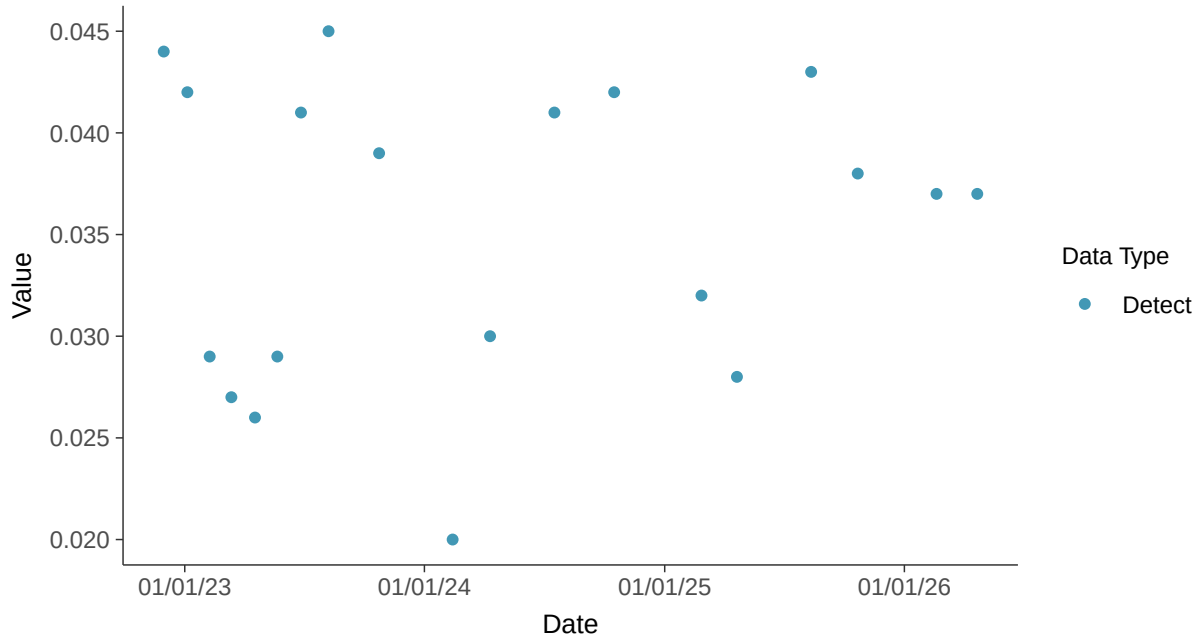


Appendix IV: Lithium, MW-18

ID: 28_1_4_116

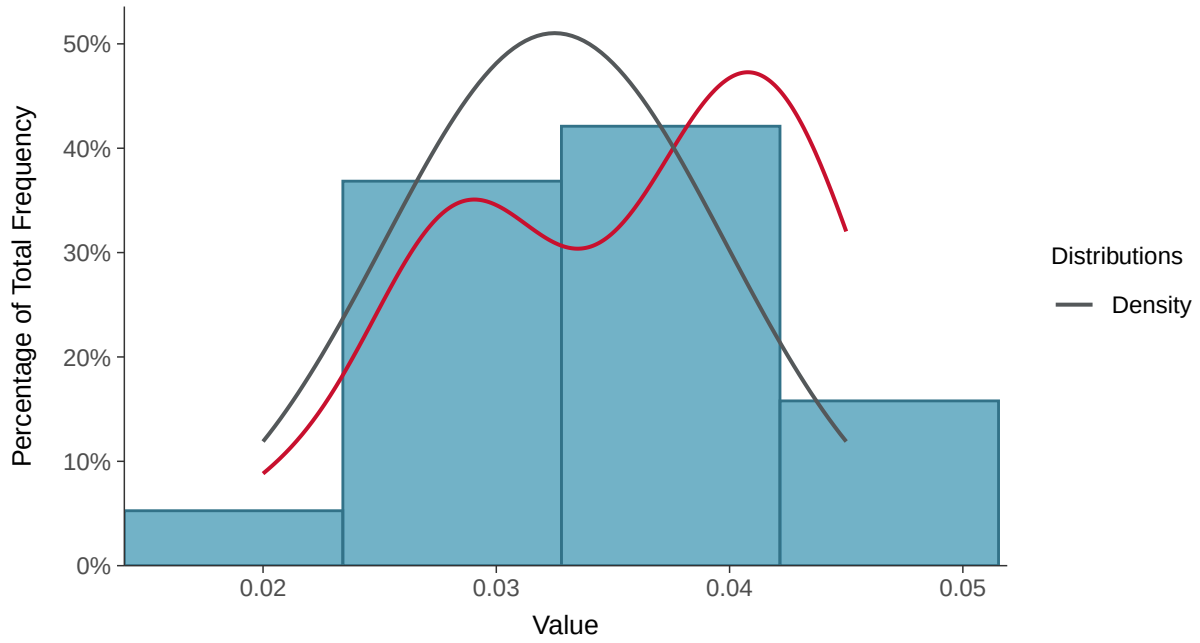
Scatter Plot

Lithium, MW-18 (mg/L)



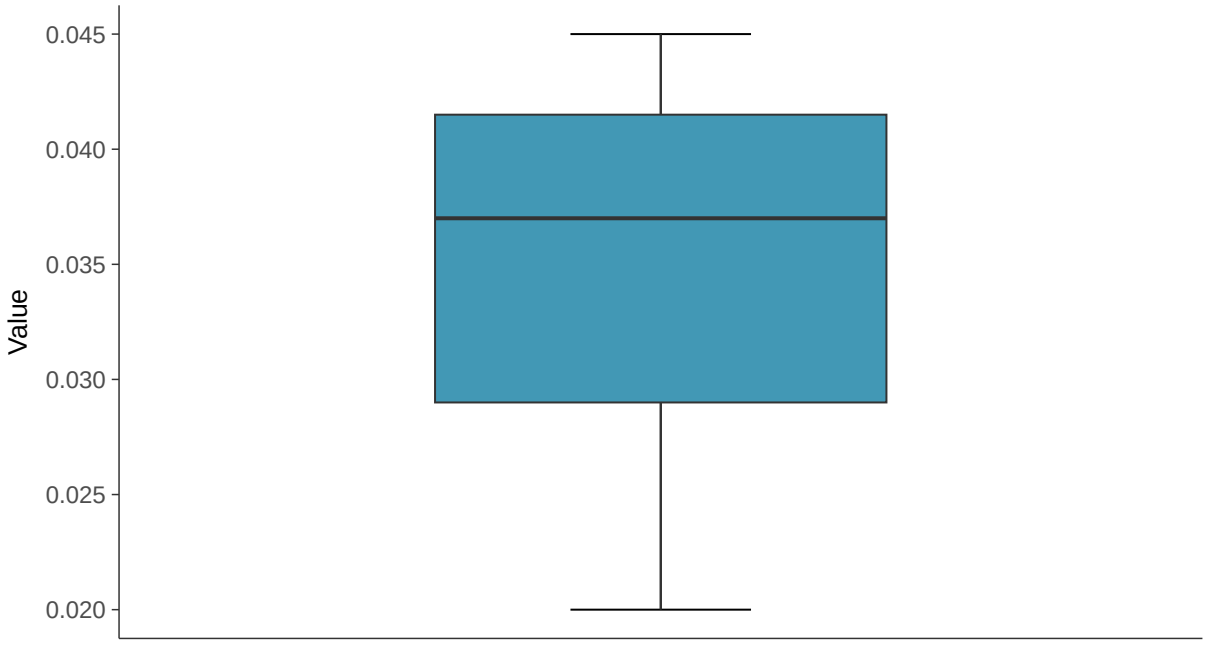
Histogram

Lithium, MW-18 (mg/L)



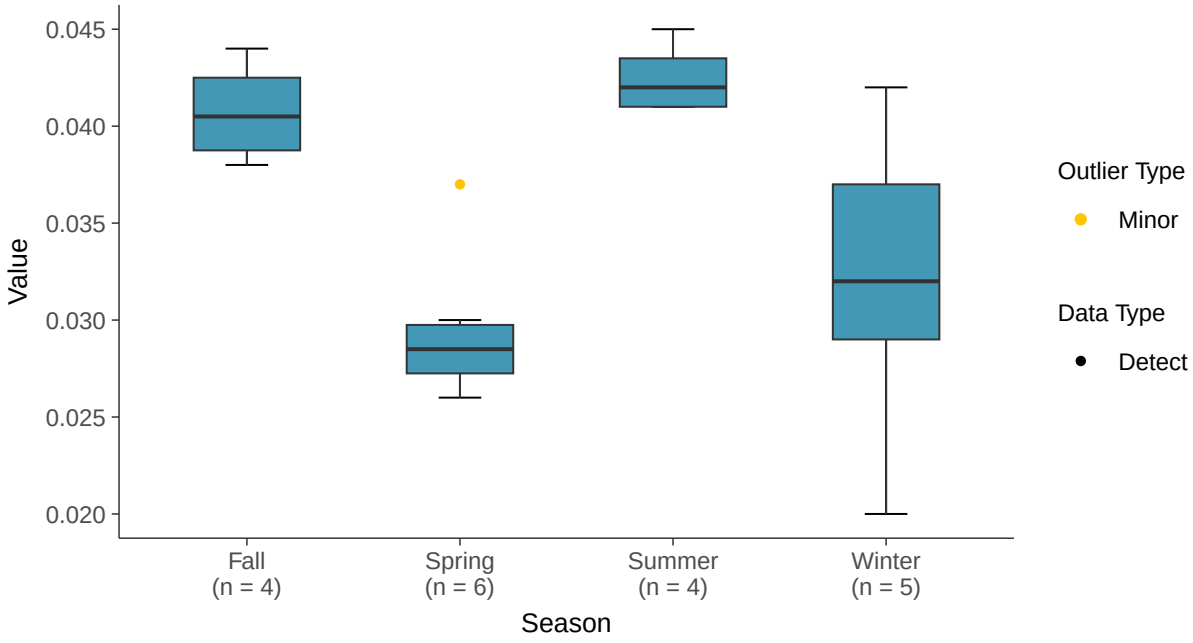
Boxplot

Lithium, MW-18 (mg/L)



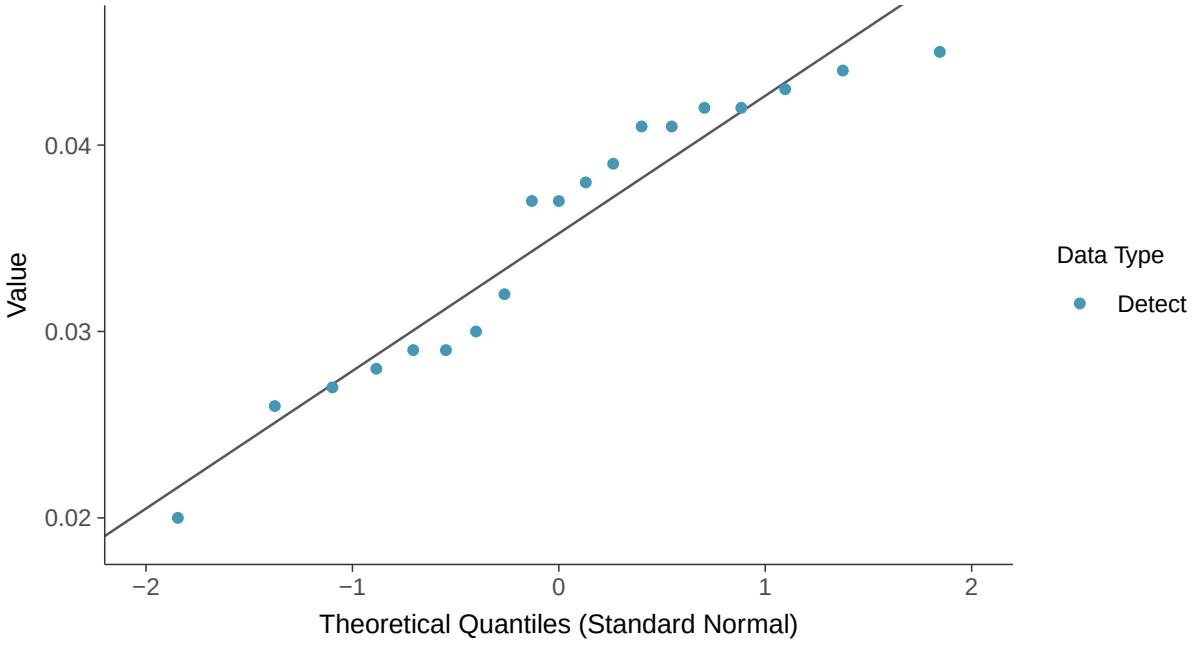
Boxplot by Season

Lithium, MW-18 (mg/L)



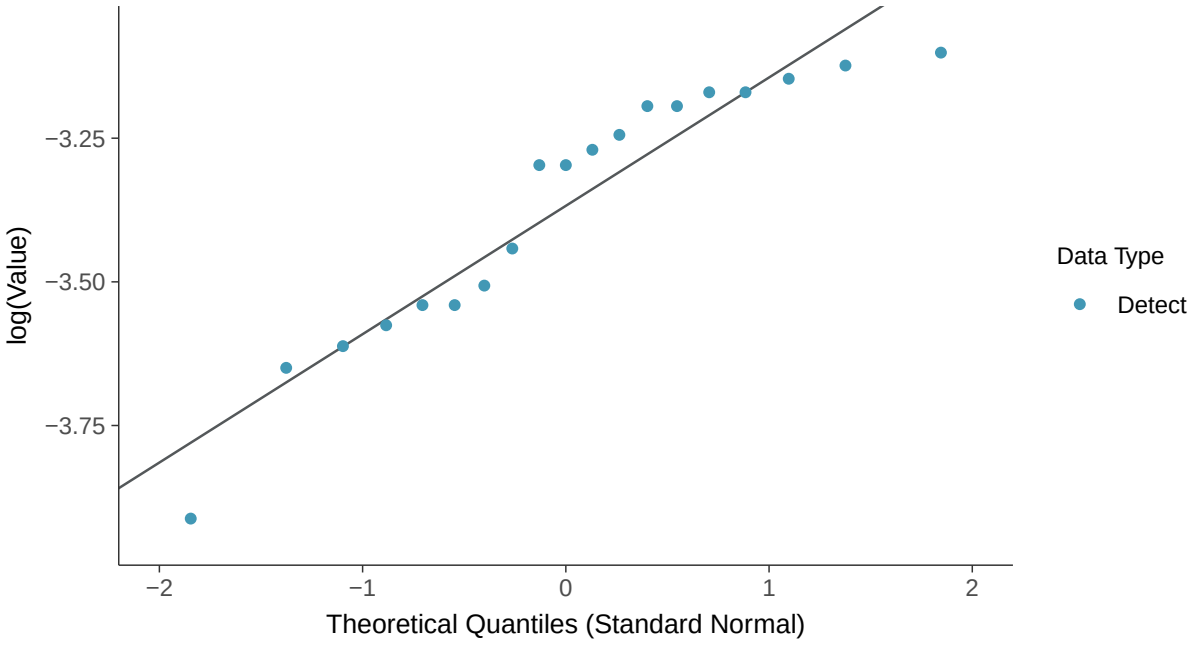
Normal Q-Q plot

Lithium, MW-18 (mg/L)



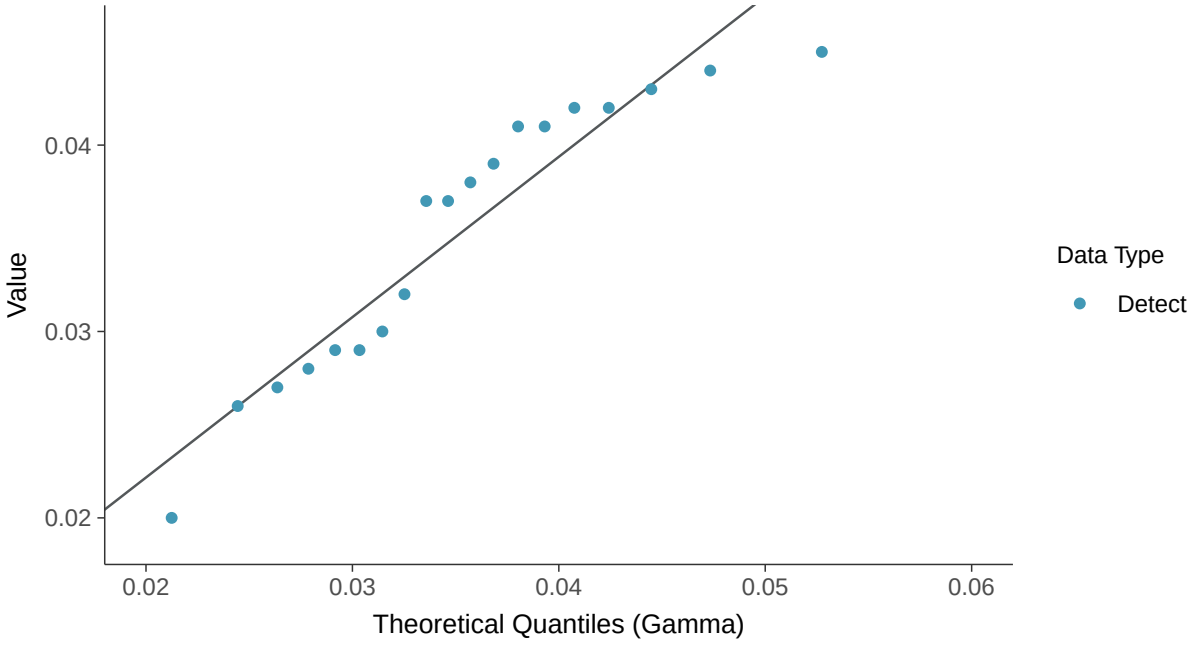
Lognormal Q-Q plot

Lithium, MW-18 (mg/L)



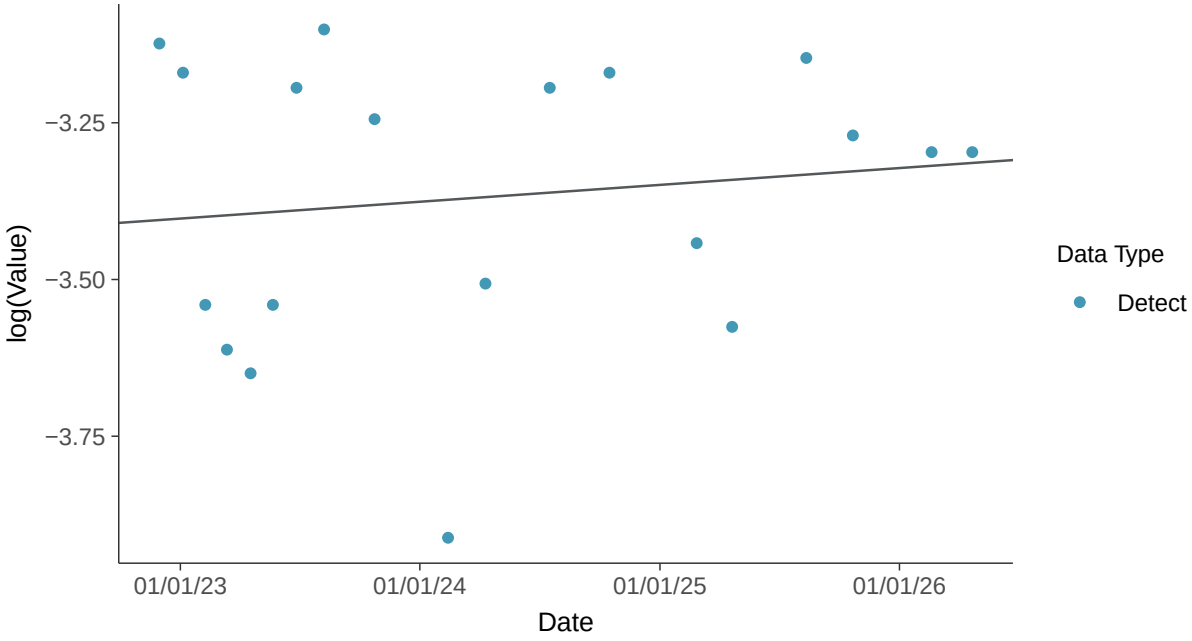
Gamma Q-Q plot

Lithium, MW-18 (mg/L)



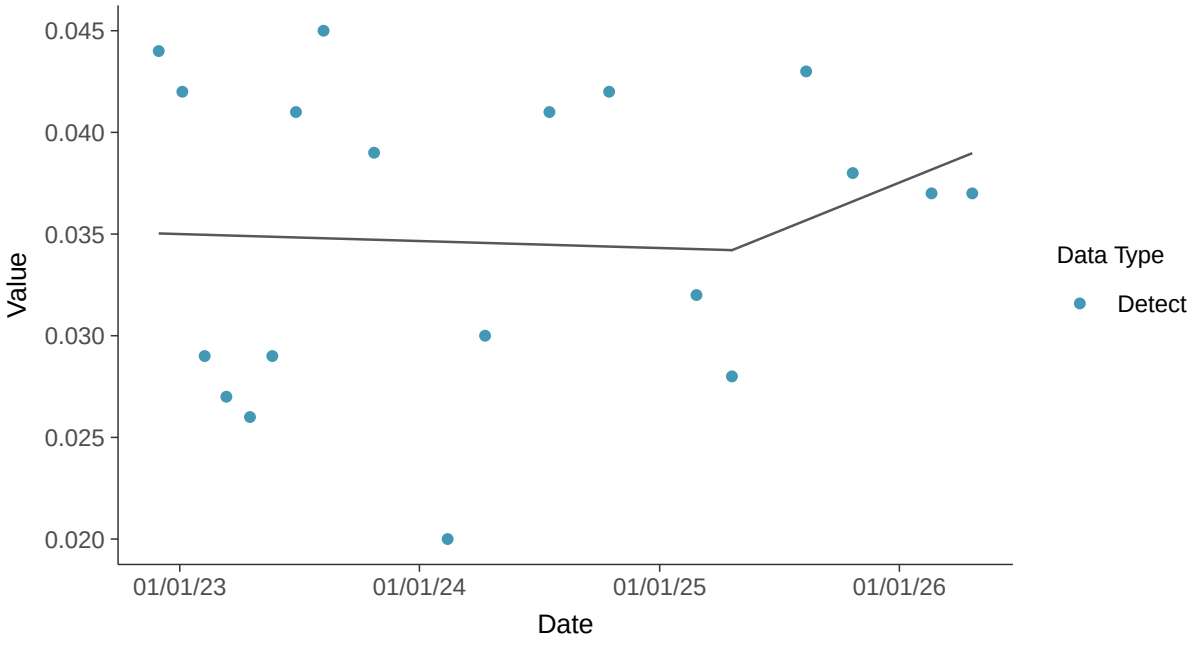
Trend Regression: Lognormal MLE

Lithium, MW-18 (mg/L)



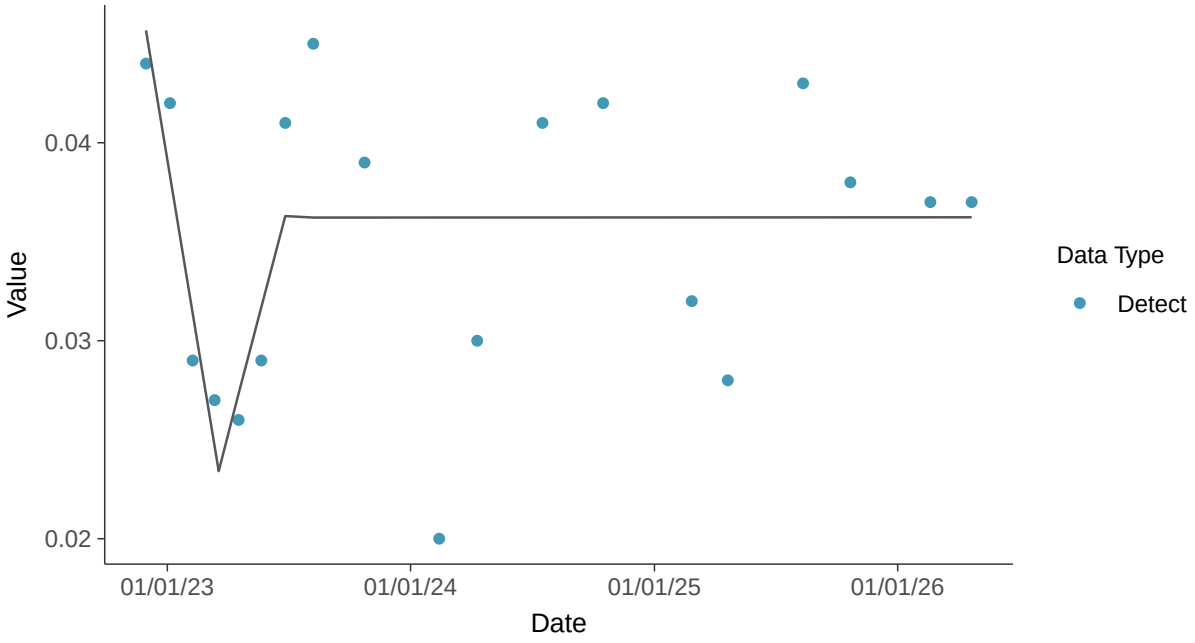
Trend Regression: Piecewise Linear-Linear

Lithium, MW-18 (mg/L)



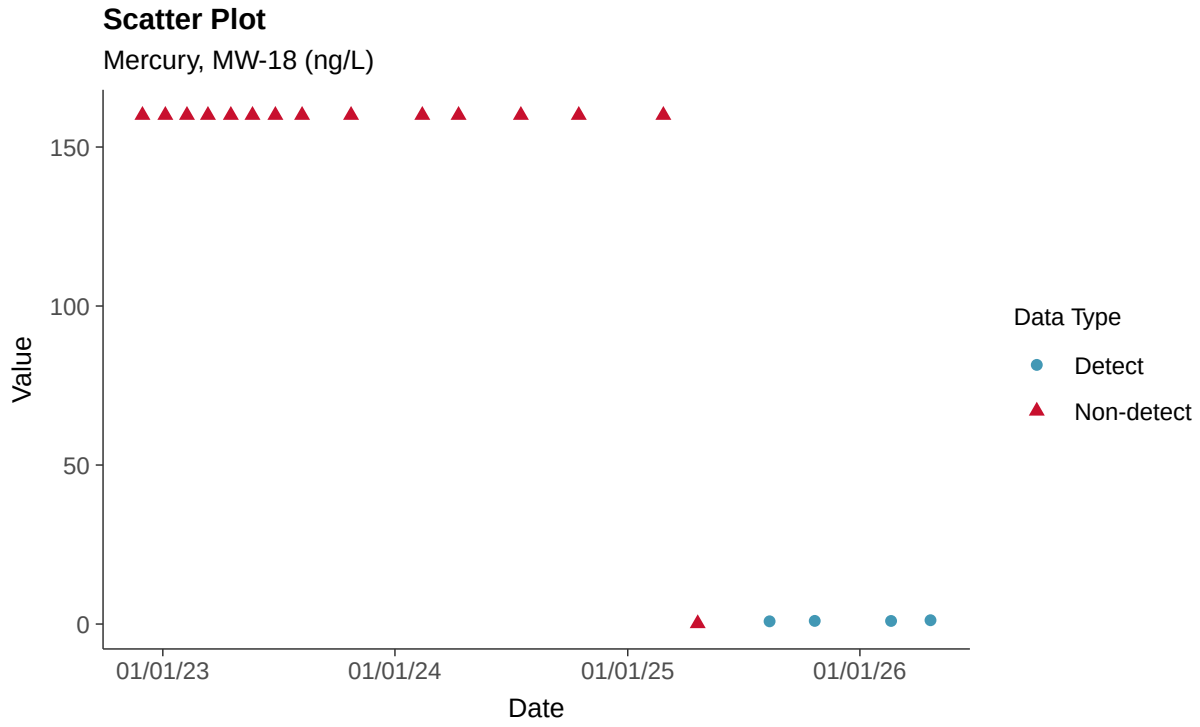
Trend Regression: Piecewise Linear-Linear-Linear

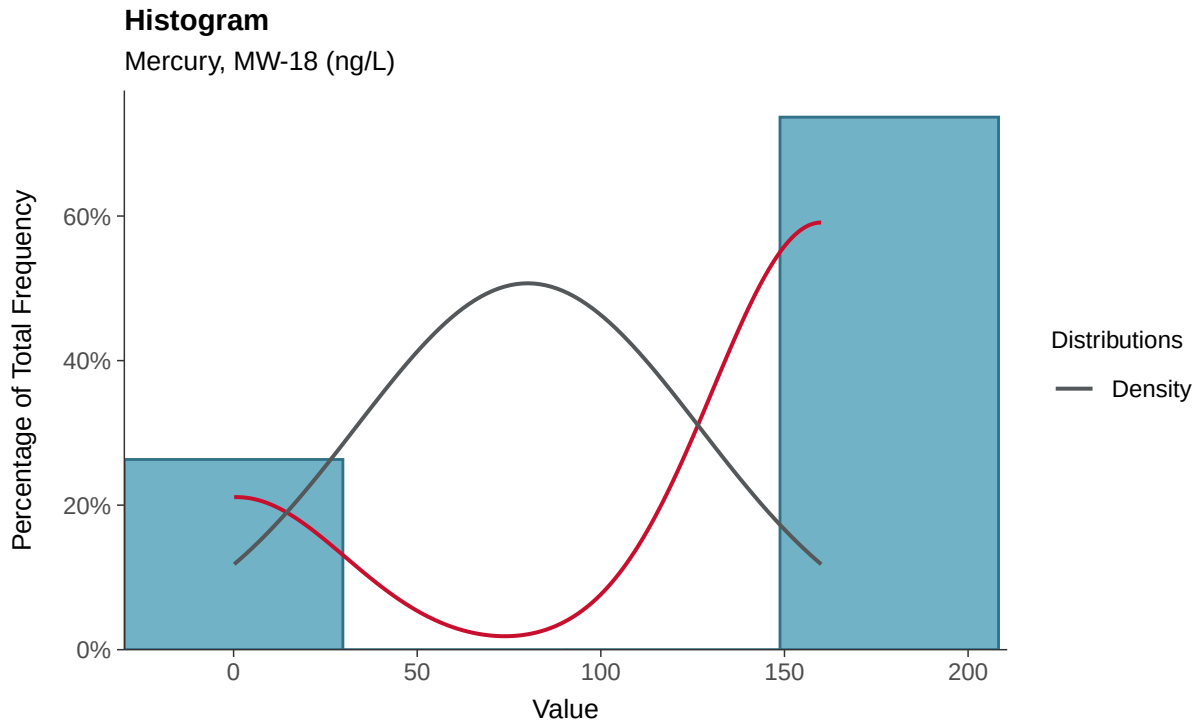
Lithium, MW-18 (mg/L)



Appendix IV: Mercury, MW-18

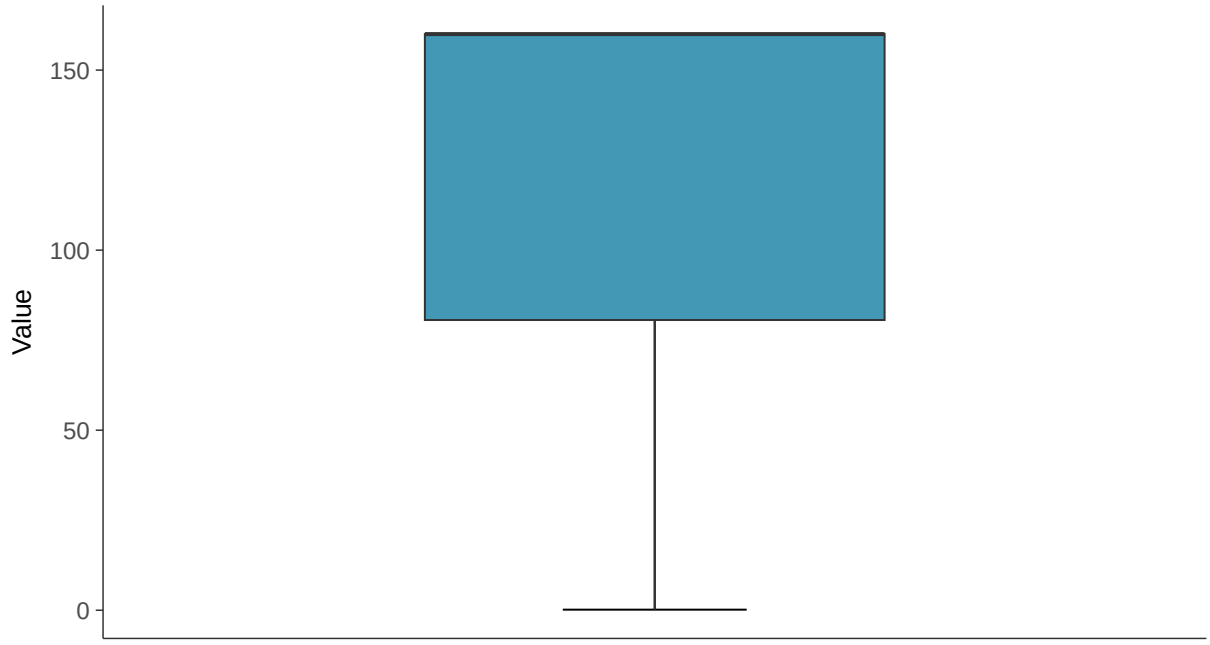
ID: 28_1_4_117





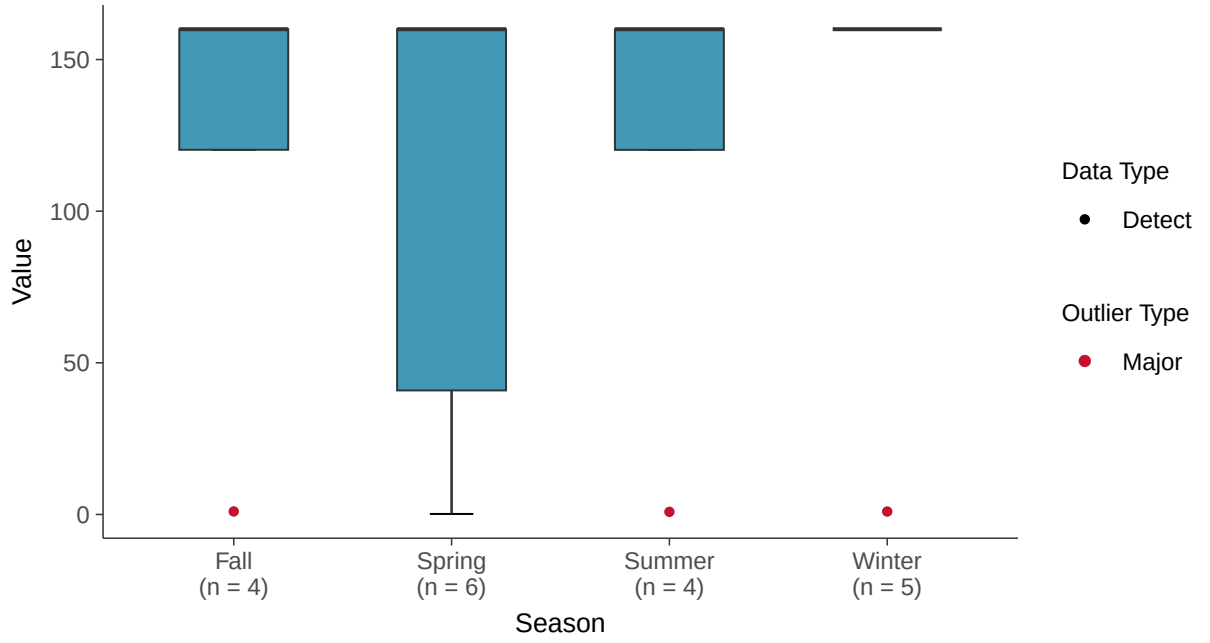
Boxplot

Mercury, MW-18 (ng/L)



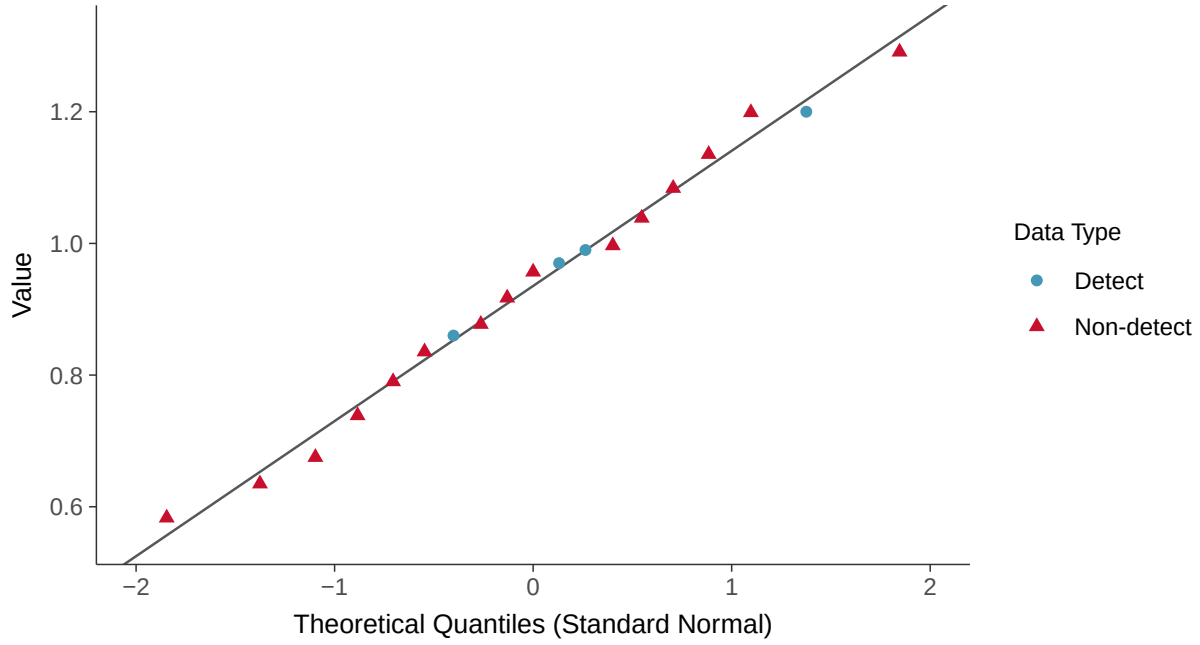
Boxplot by Season

Mercury, MW-18 (ng/L)



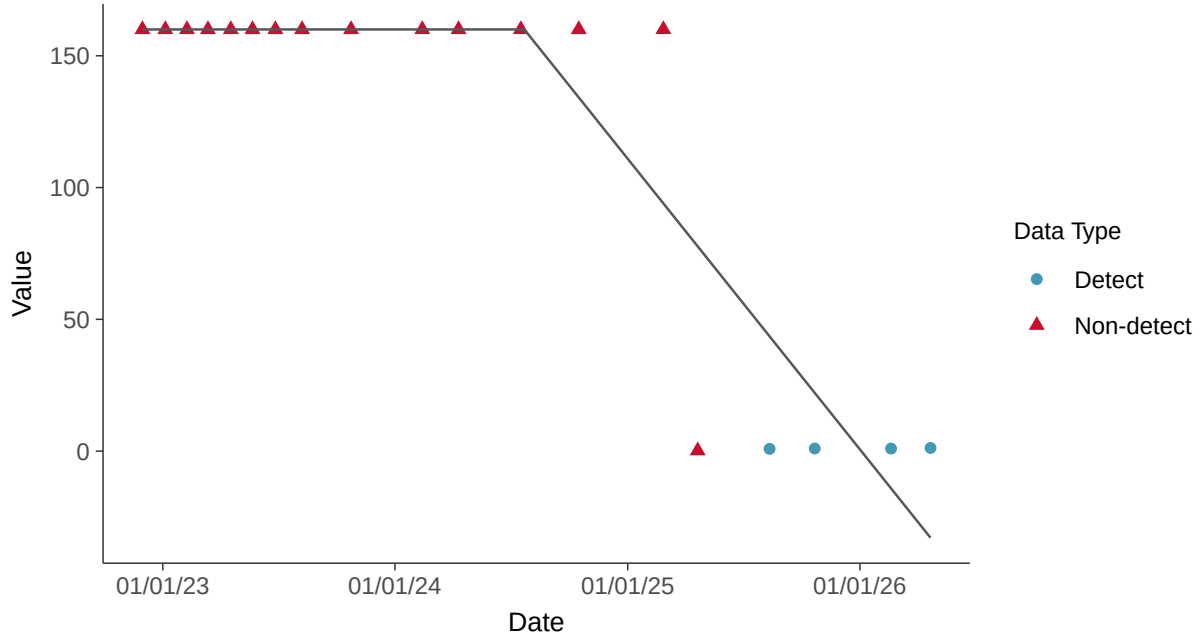
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-18 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-18 (ng/L)

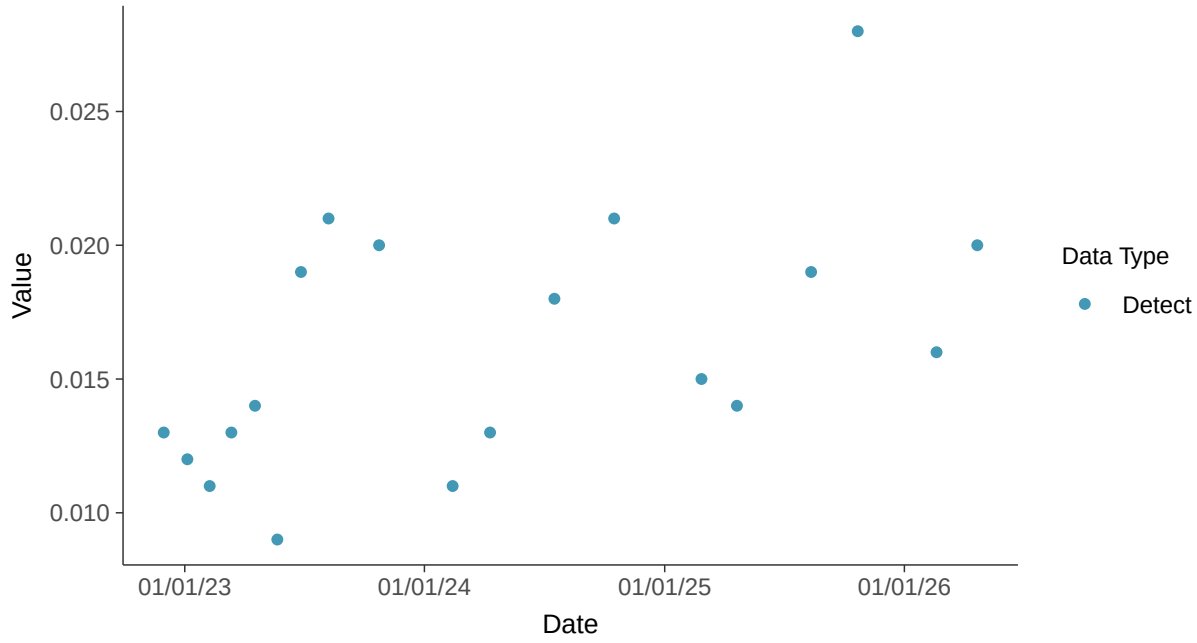


Appendix IV: Molybdenum, MW-18

ID: 28_1_4_118

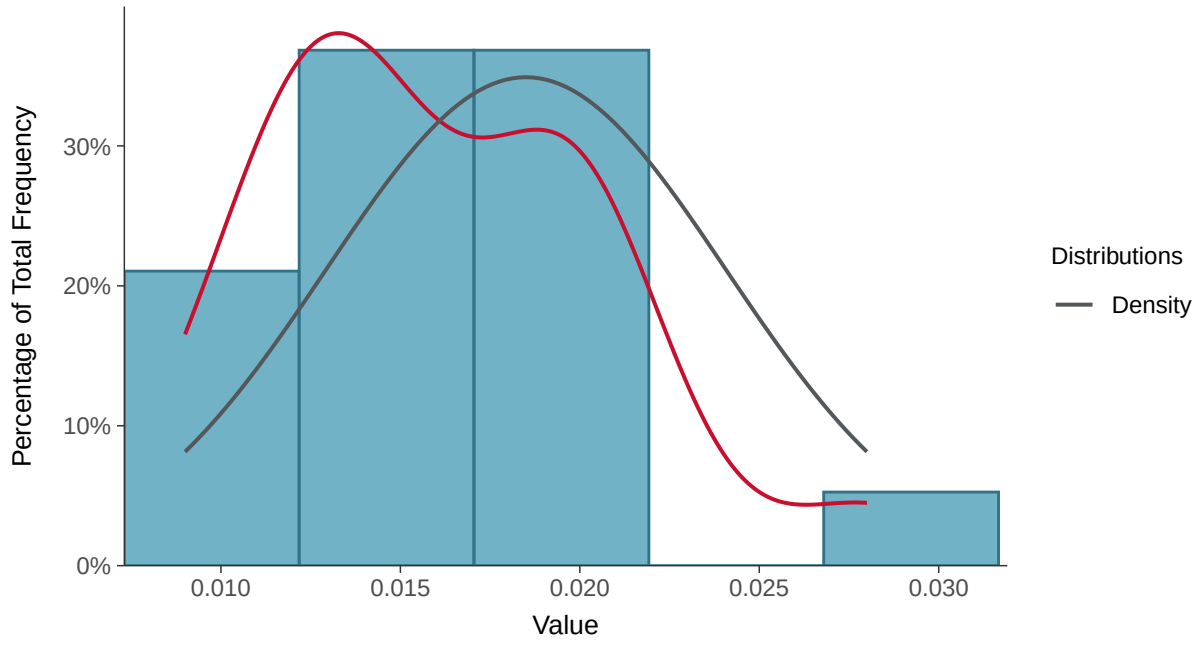
Scatter Plot

Molybdenum, MW-18 (mg/L)



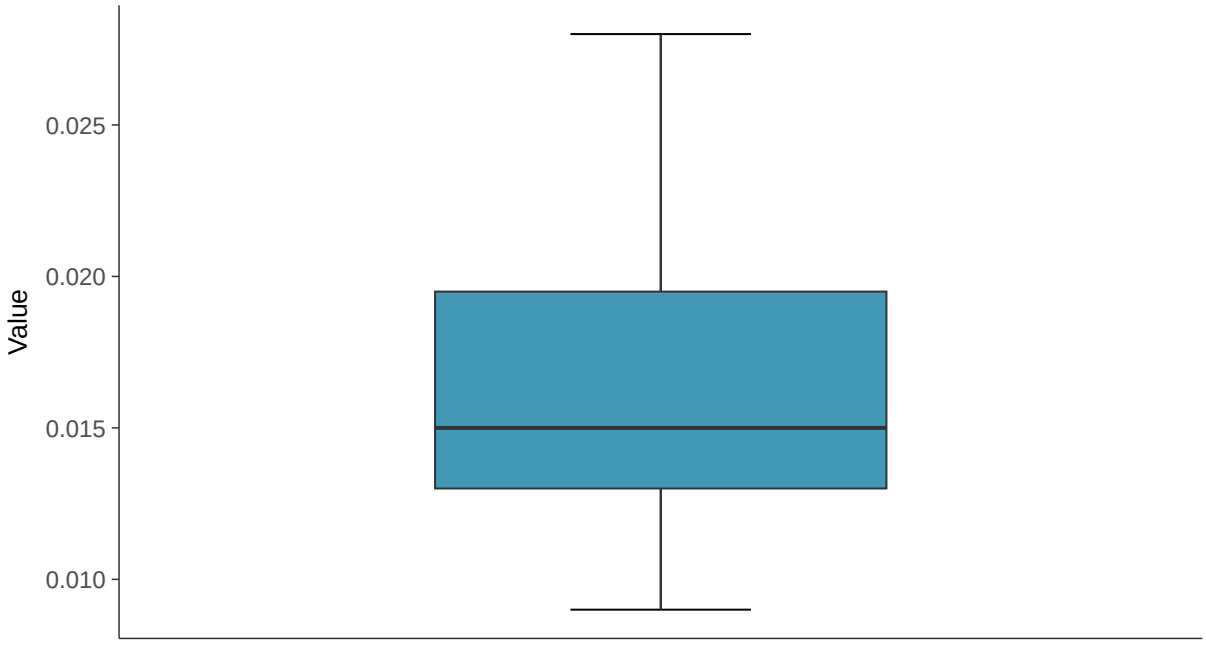
Histogram

Molybdenum, MW-18 (mg/L)



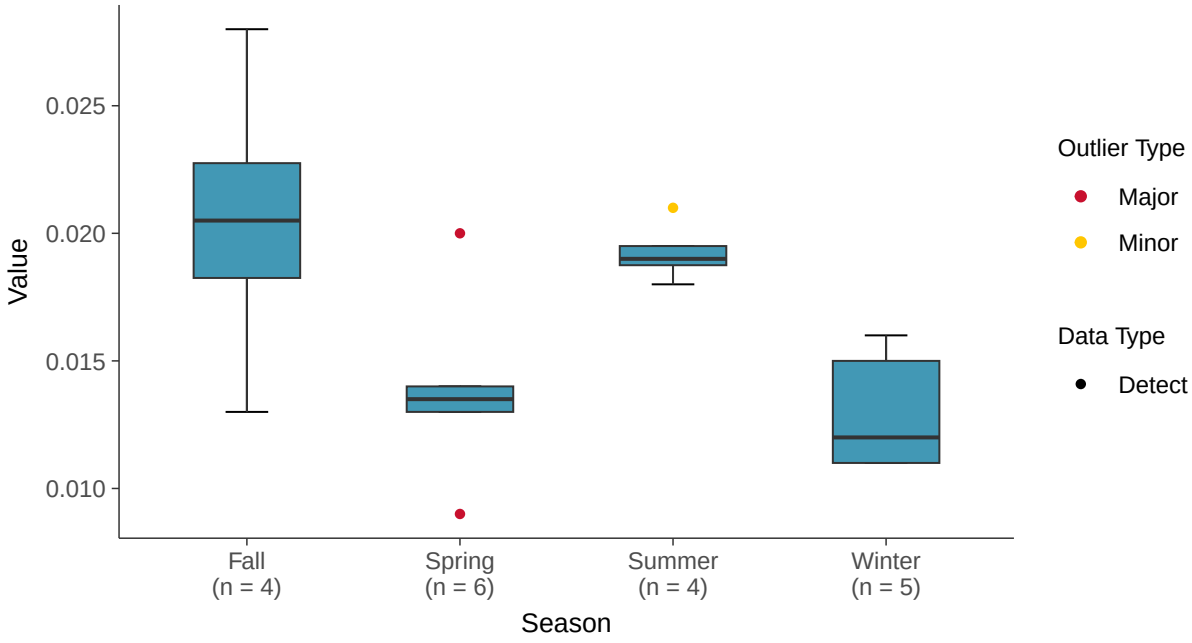
Boxplot

Molybdenum, MW-18 (mg/L)



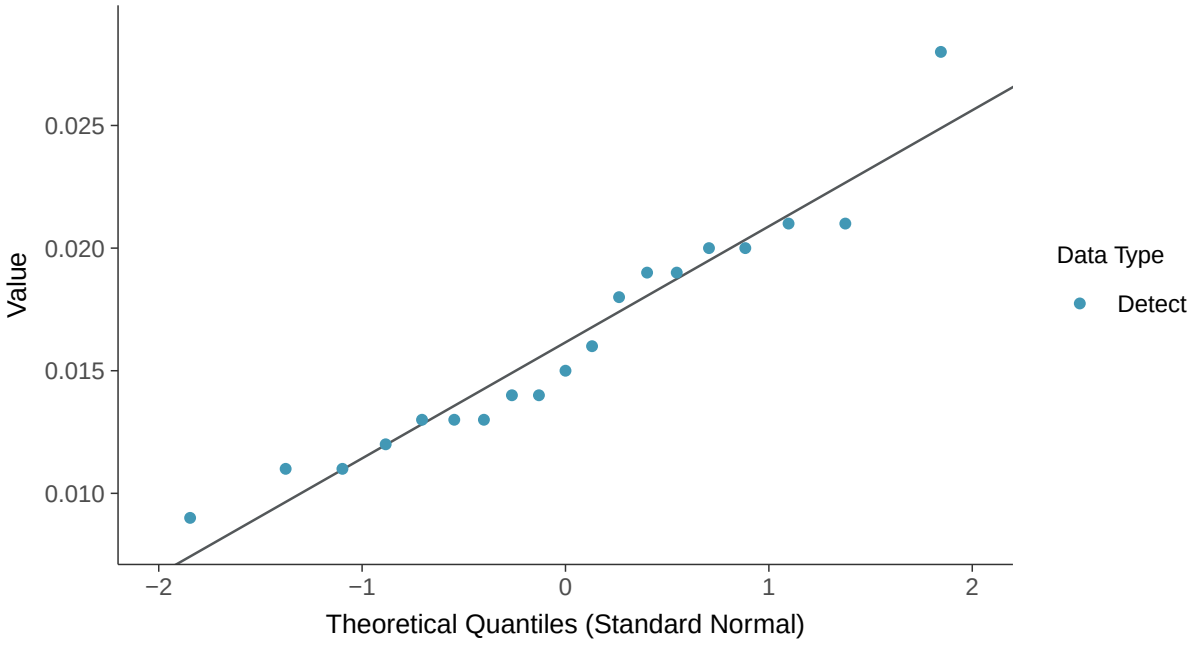
Boxplot by Season

Molybdenum, MW-18 (mg/L)



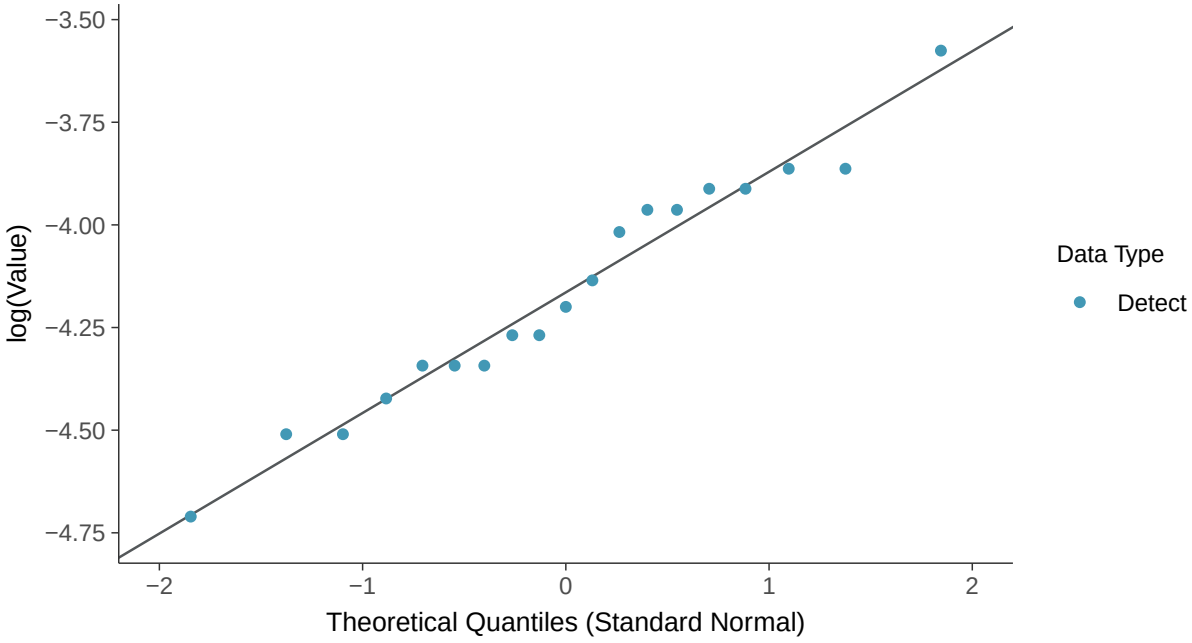
Normal Q-Q plot

Molybdenum, MW-18 (mg/L)



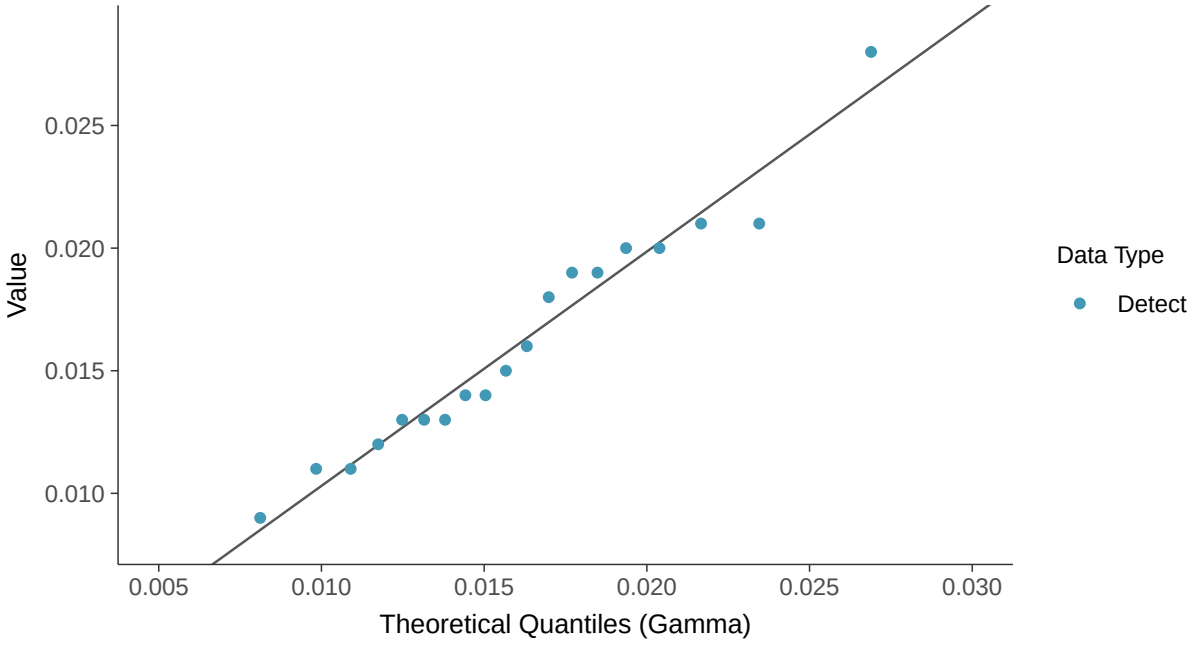
Lognormal Q-Q plot

Molybdenum, MW-18 (mg/L)



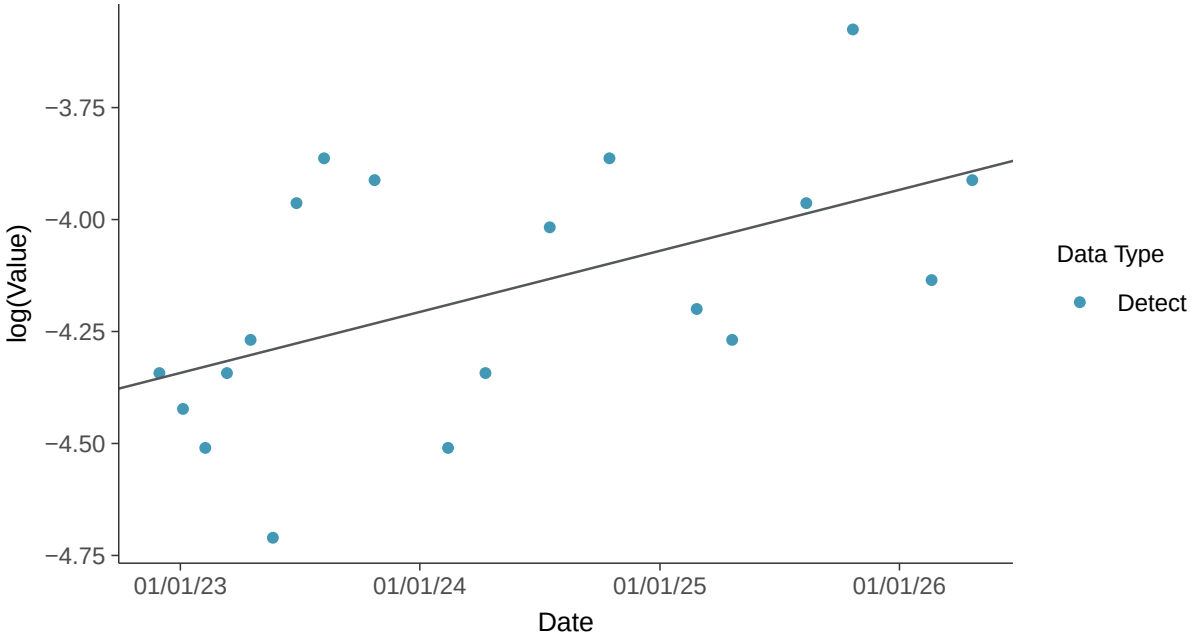
Gamma Q-Q plot

Molybdenum, MW-18 (mg/L)



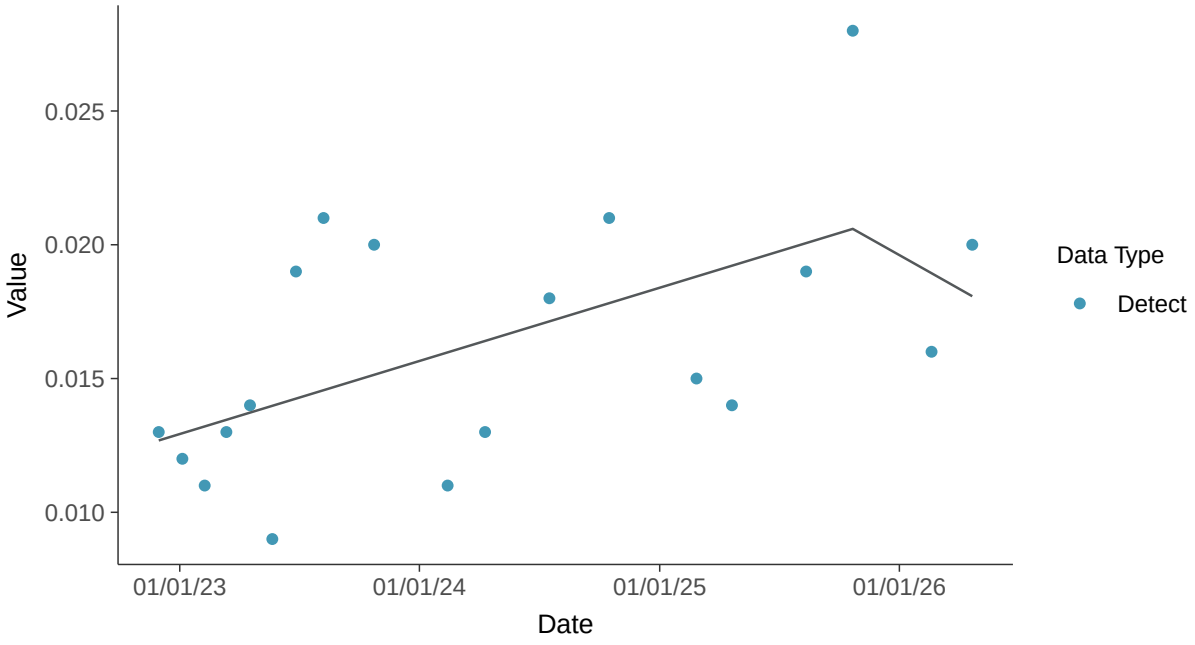
Trend Regression: Lognormal MLE

Molybdenum, MW-18 (mg/L)



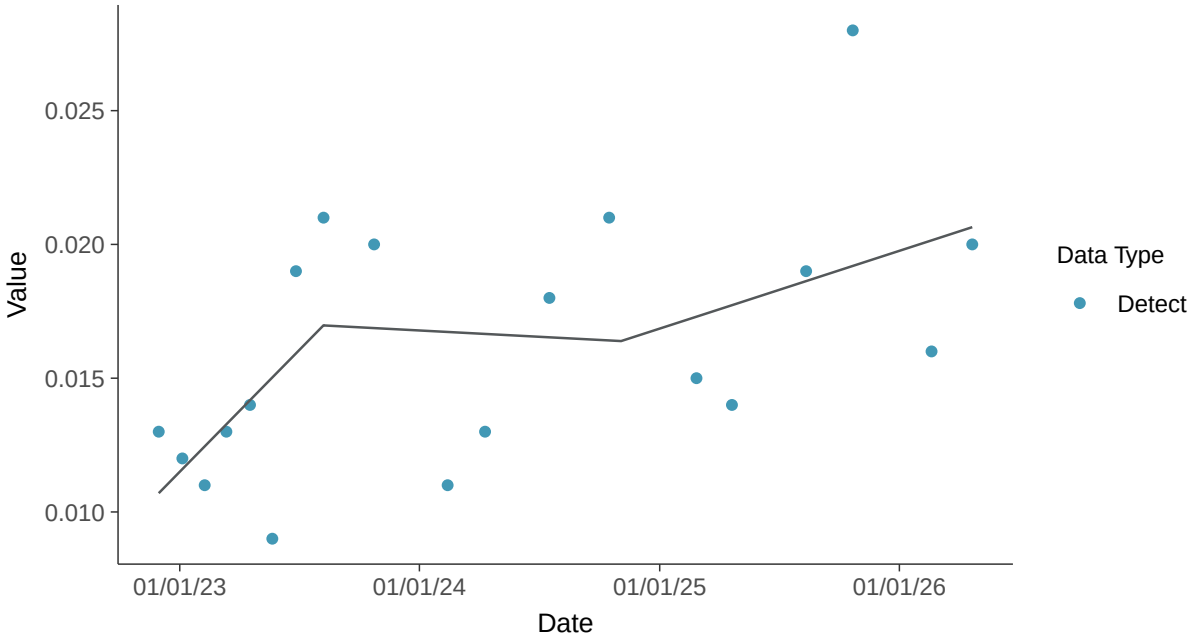
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-18 (mg/L)

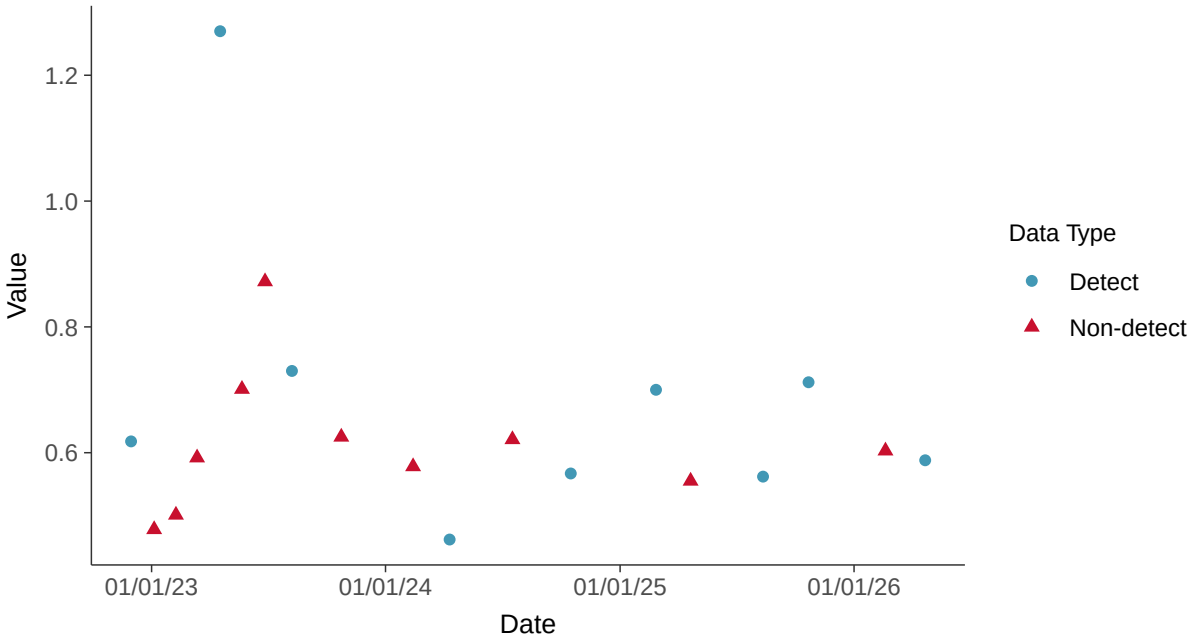


Appendix IV: Radium 226 and 228, MW-18

ID: 28_1_4_121

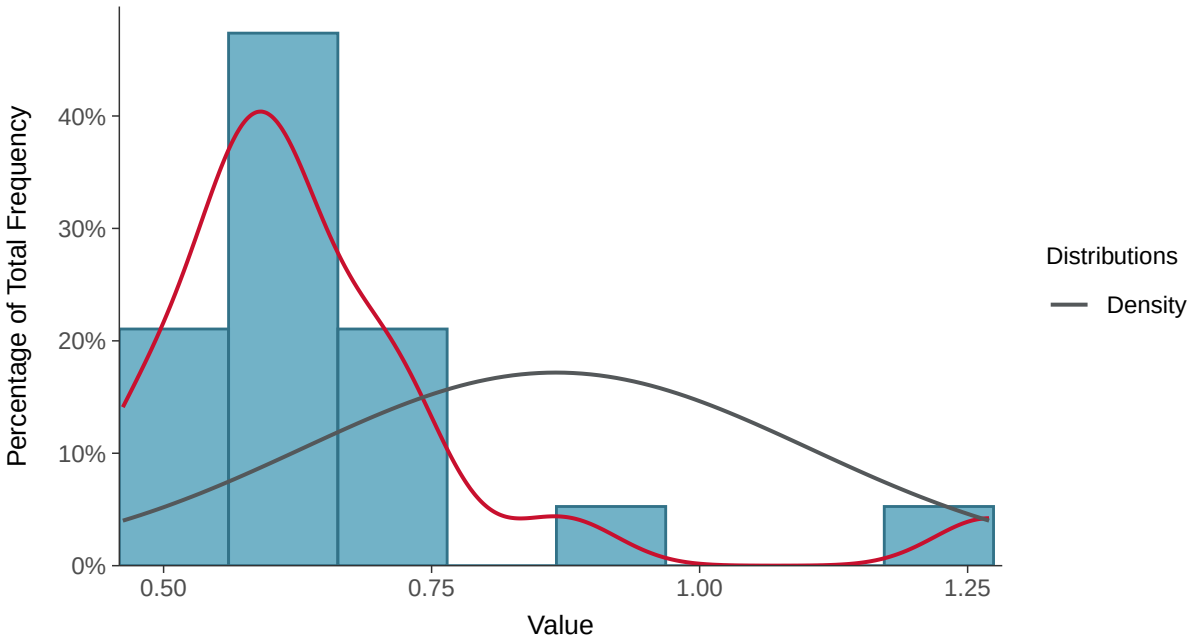
Scatter Plot

Radium 226 and 228, MW-18 (pCi/L)



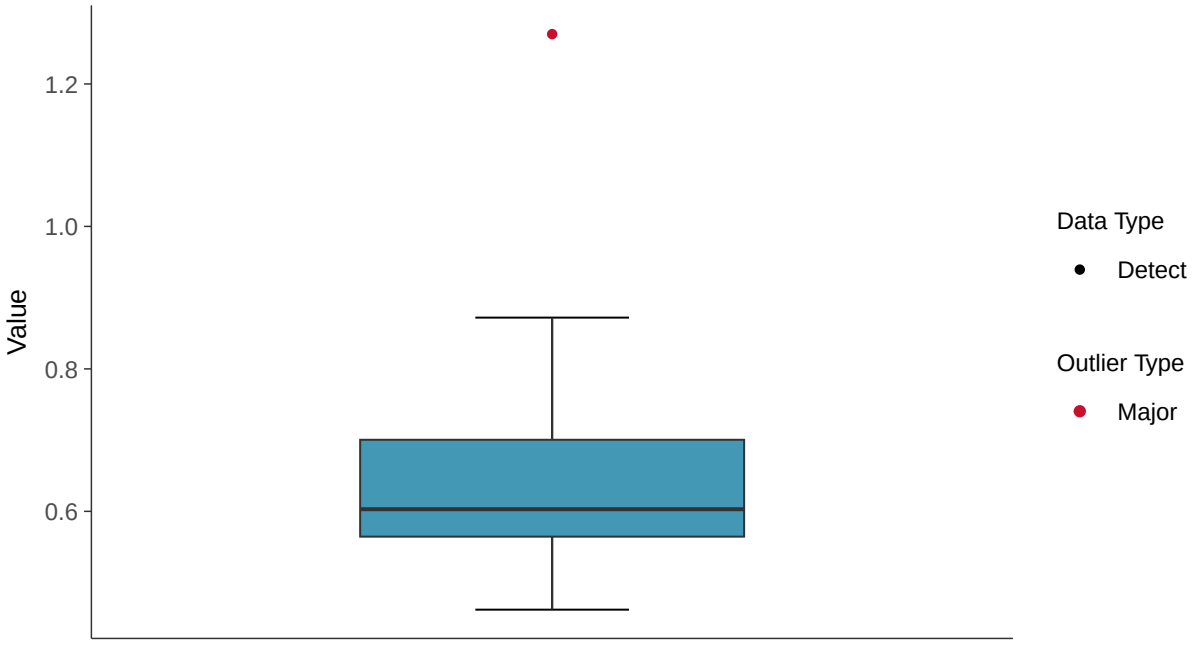
Histogram

Radium 226 and 228, MW-18 (pCi/L)



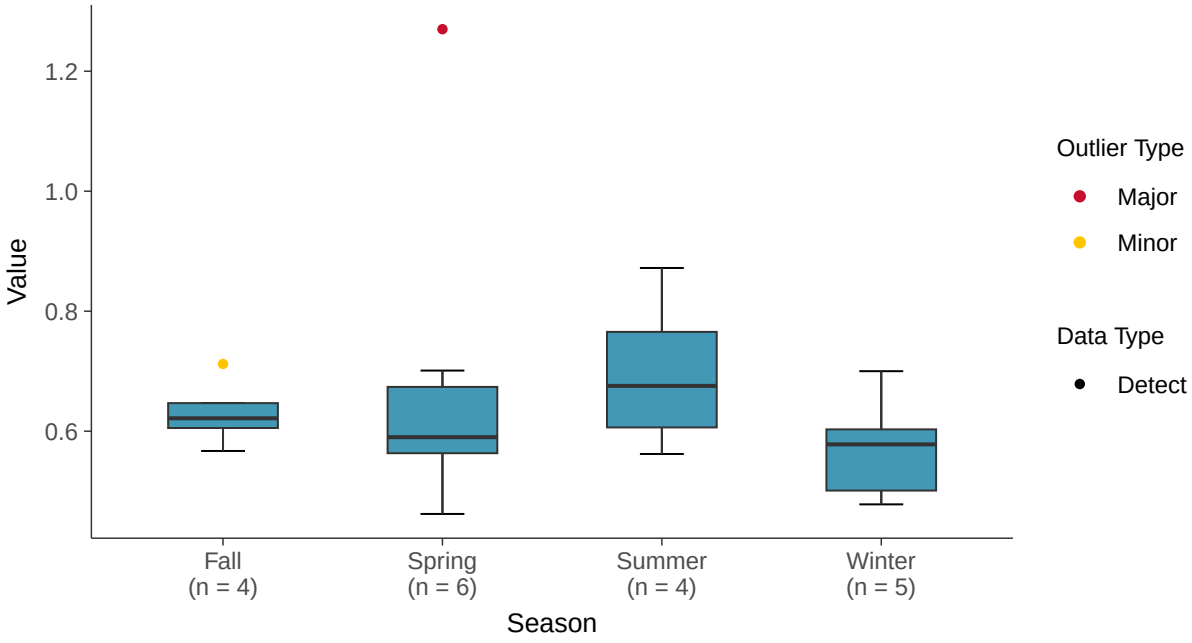
Boxplot

Radium 226 and 228, MW-18 (pCi/L)



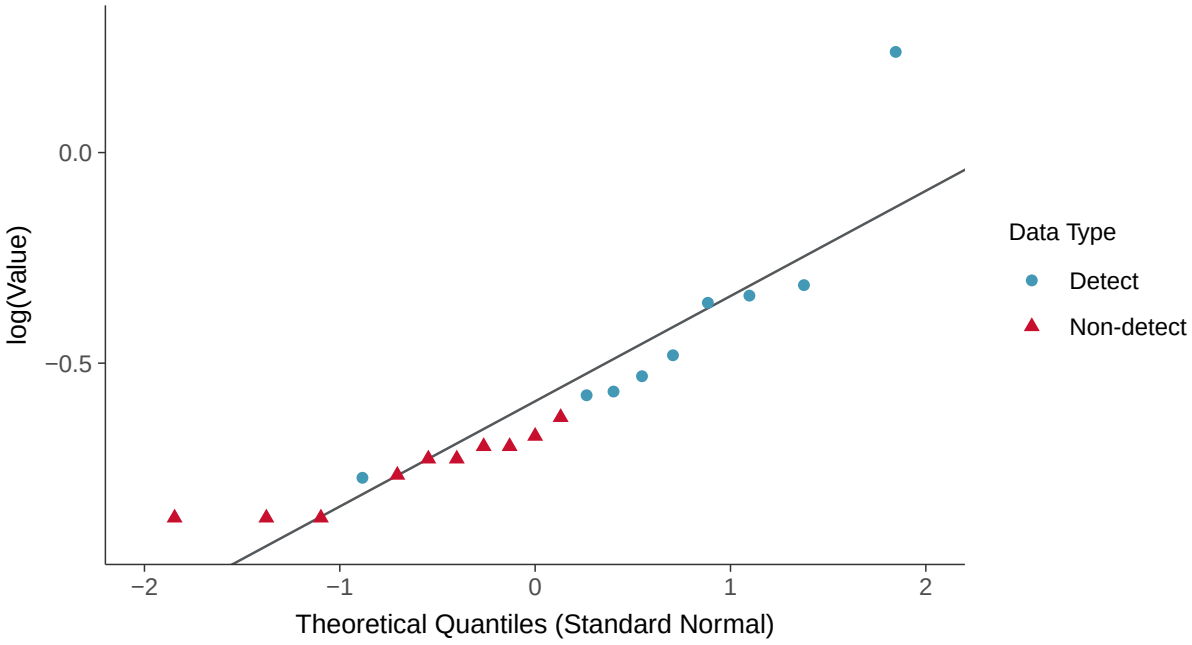
Boxplot by Season

Radium 226 and 228, MW-18 (pCi/L)



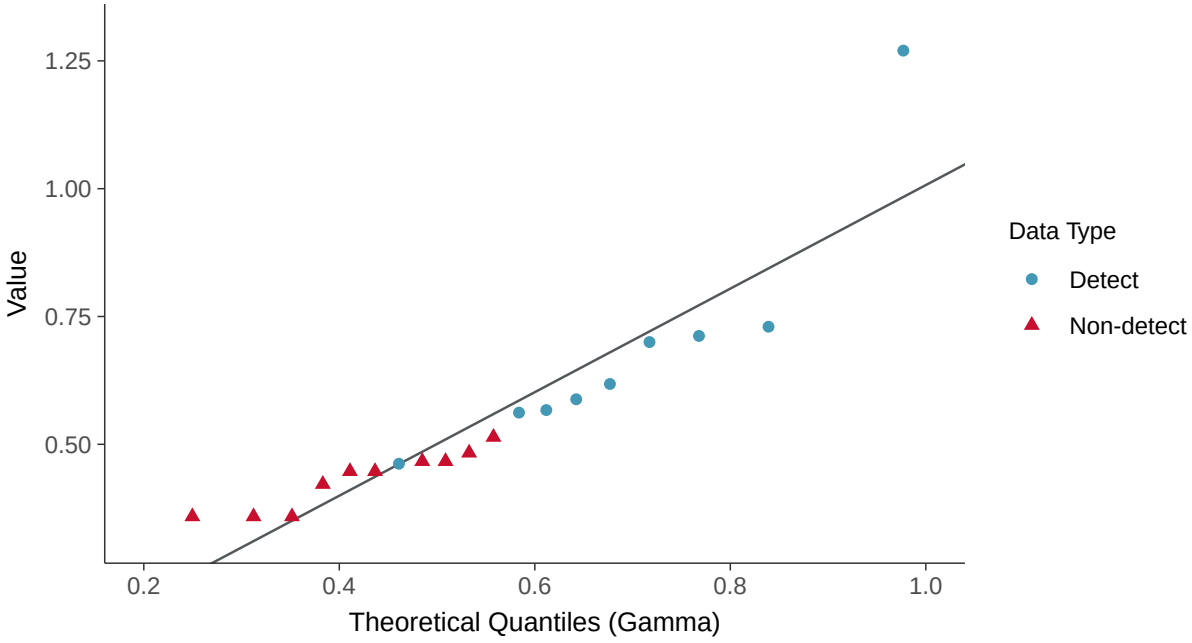
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-18 (pCi/L)



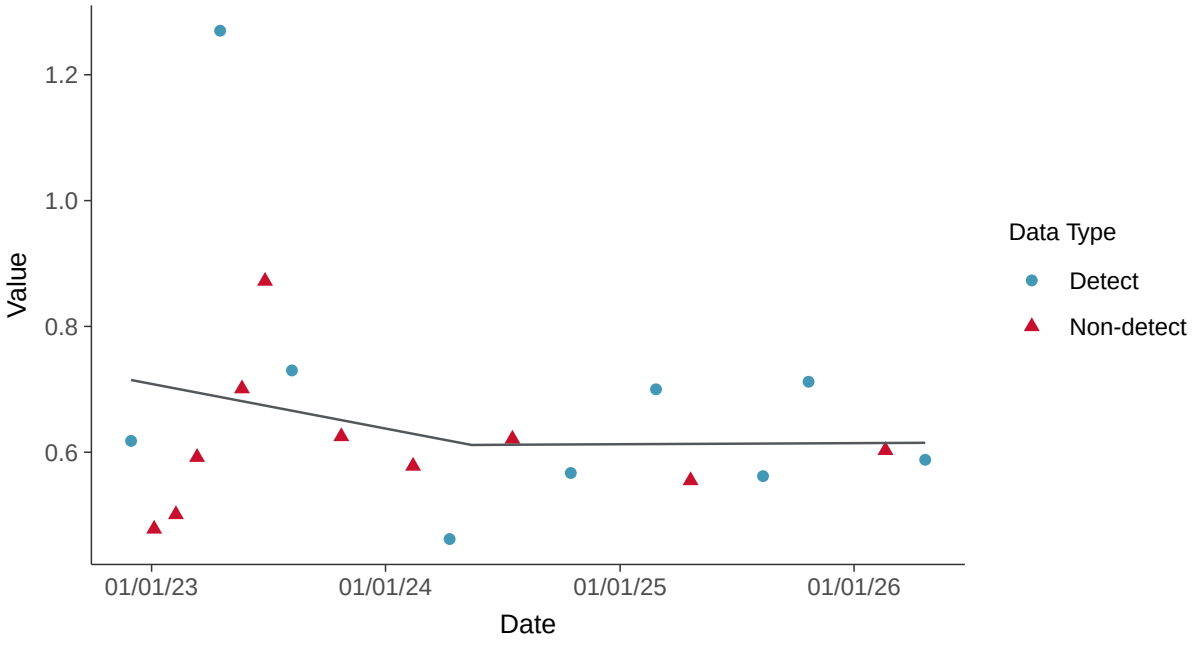
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-18 (pCi/L)



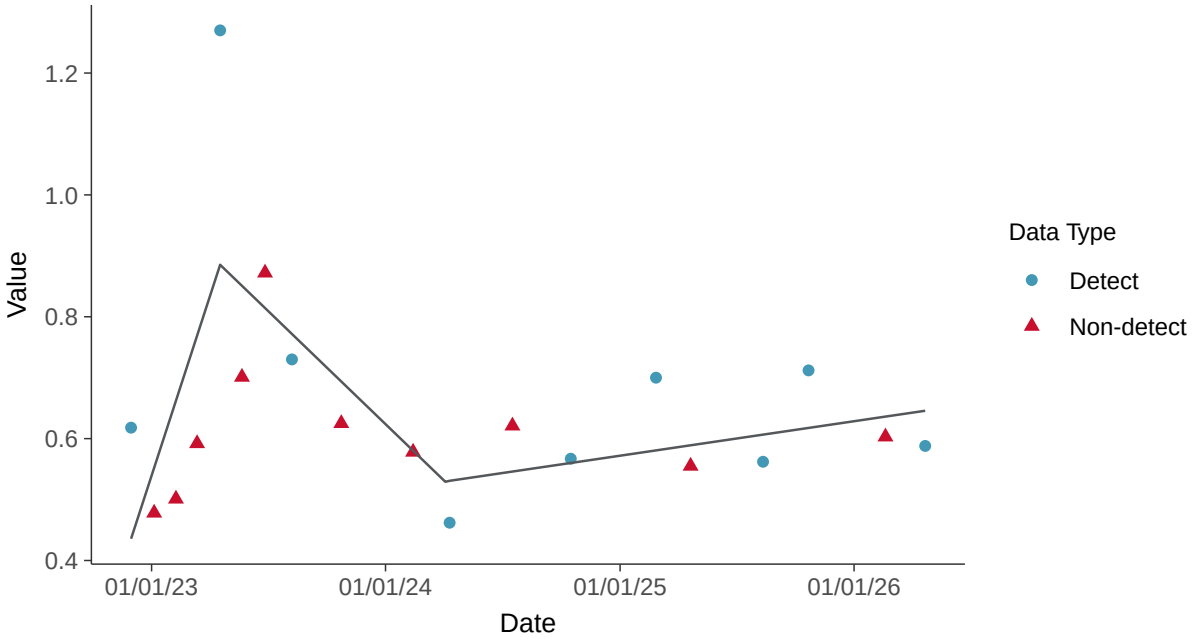
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-18 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-18 (pCi/L)

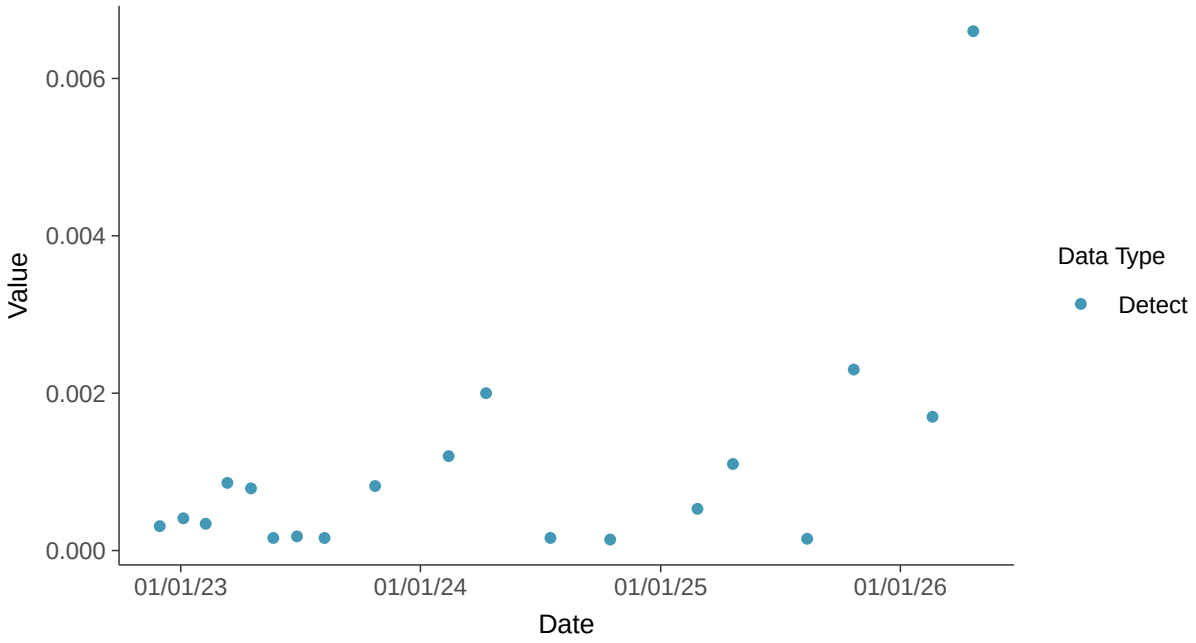


Appendix IV: Selenium, MW-18

ID: 28_1_4_122

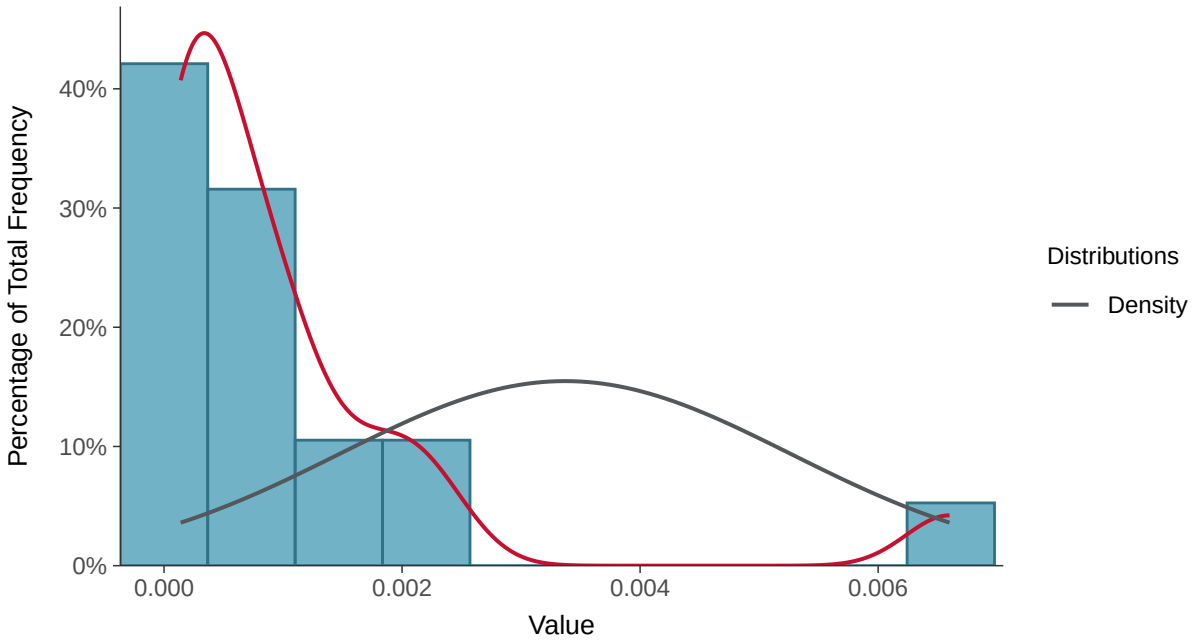
Scatter Plot

Selenium, MW-18 (mg/L)



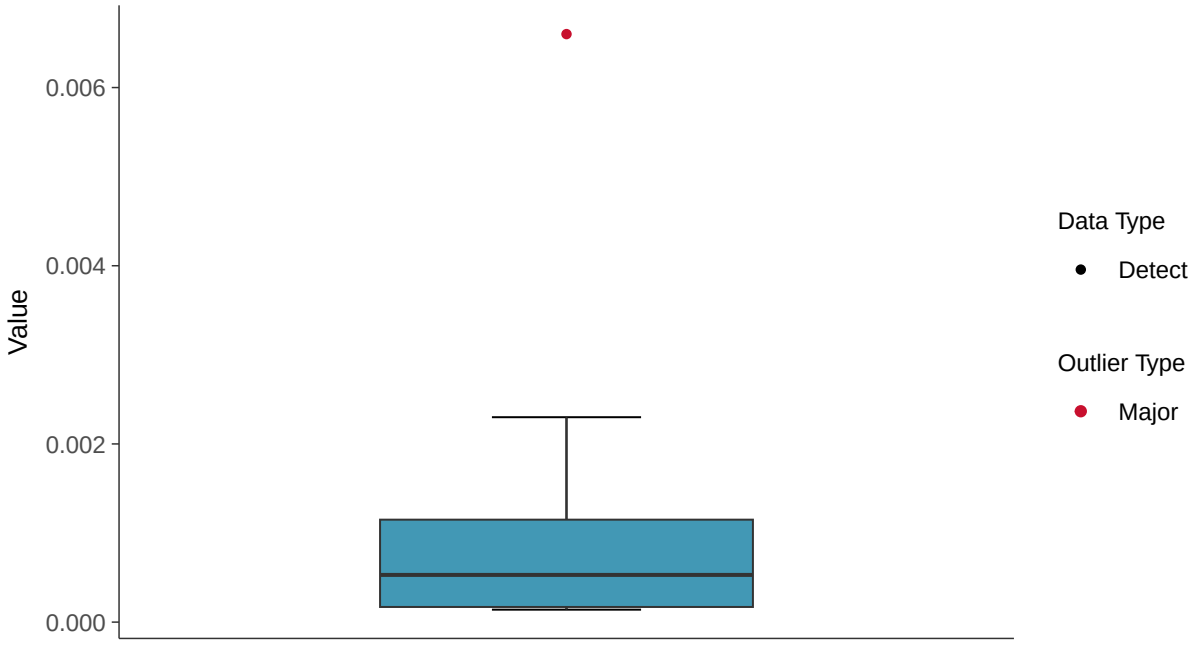
Histogram

Selenium, MW-18 (mg/L)



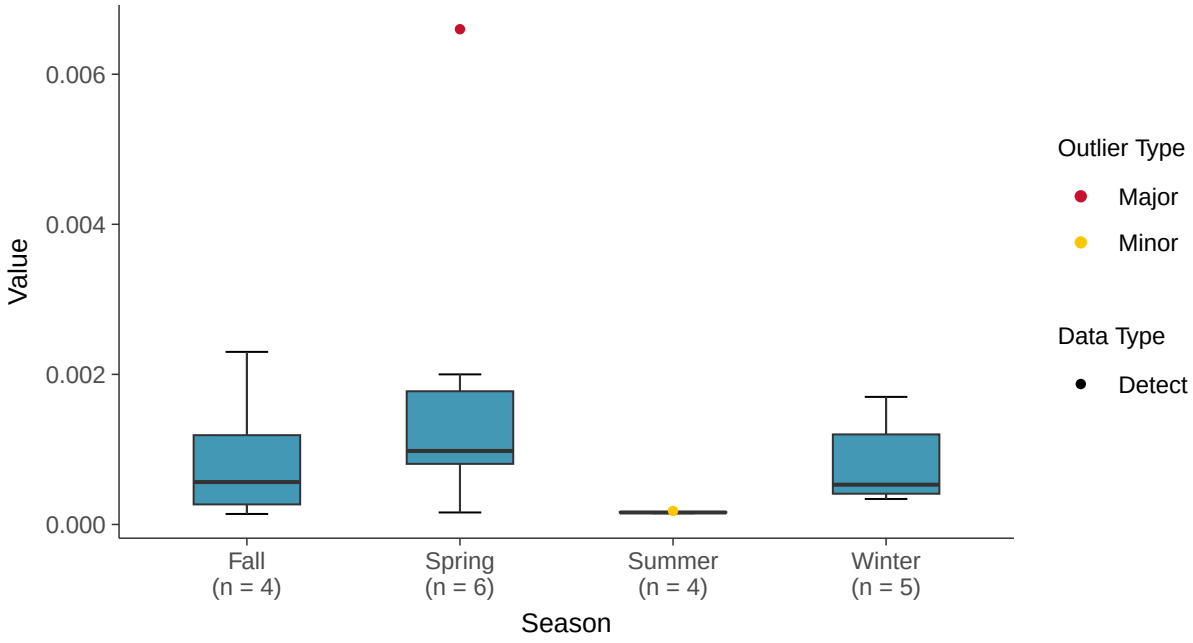
Boxplot

Selenium, MW-18 (mg/L)



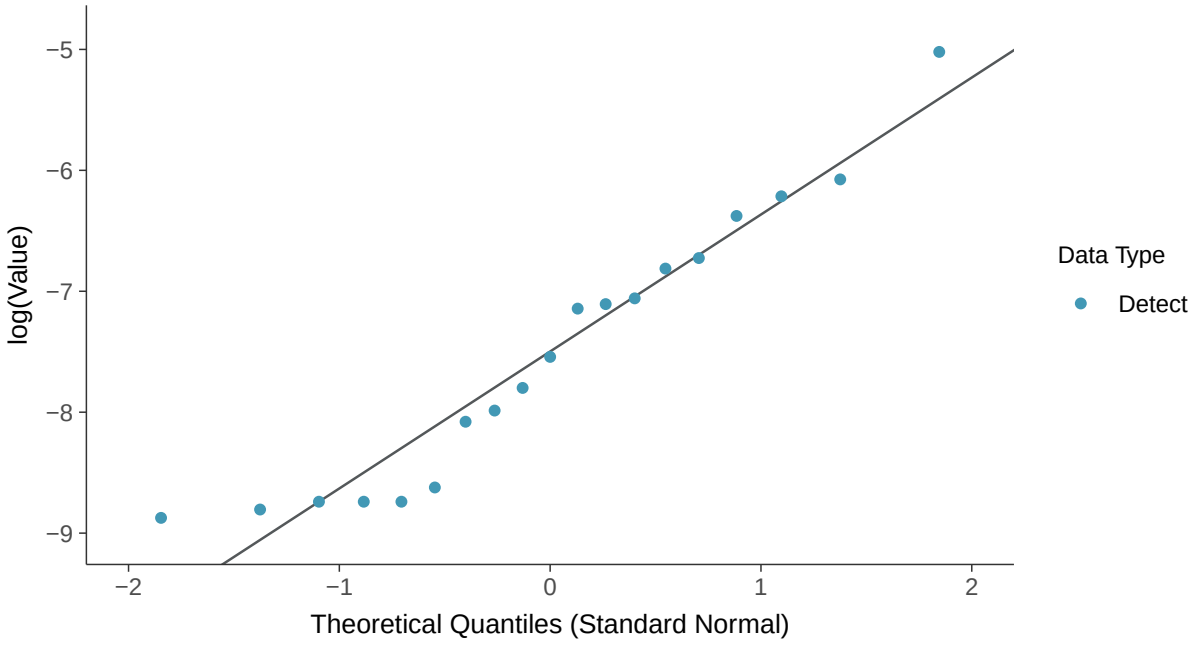
Boxplot by Season

Selenium, MW-18 (mg/L)



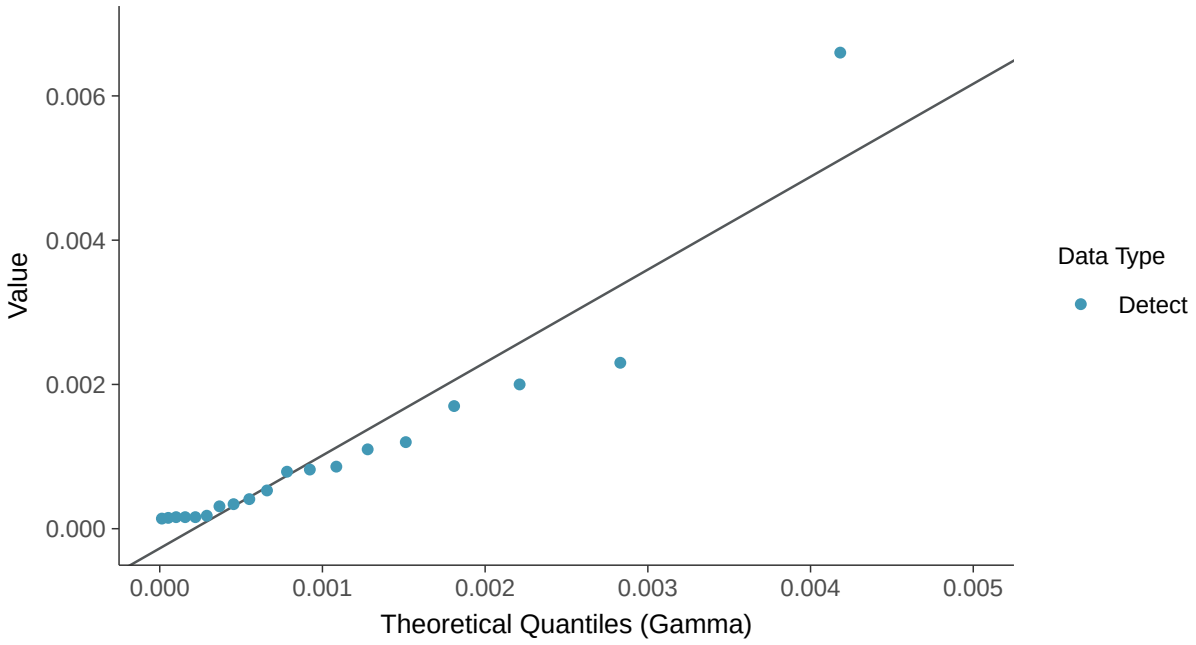
Lognormal Q-Q plot

Selenium, MW-18 (mg/L)



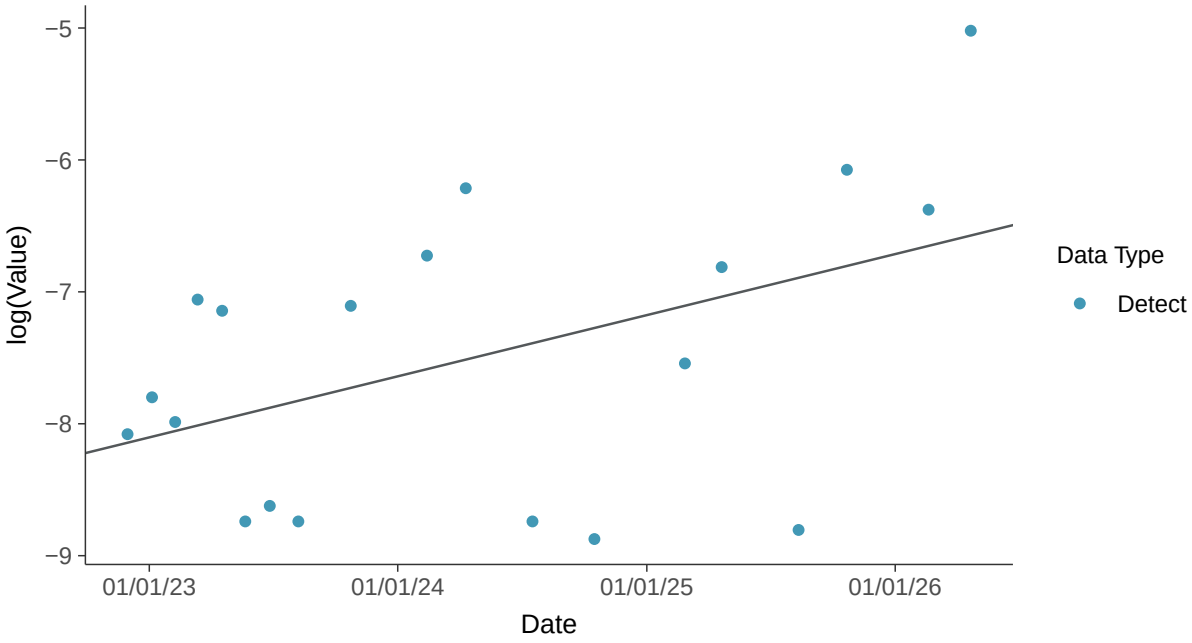
Gamma Q-Q plot

Selenium, MW-18 (mg/L)



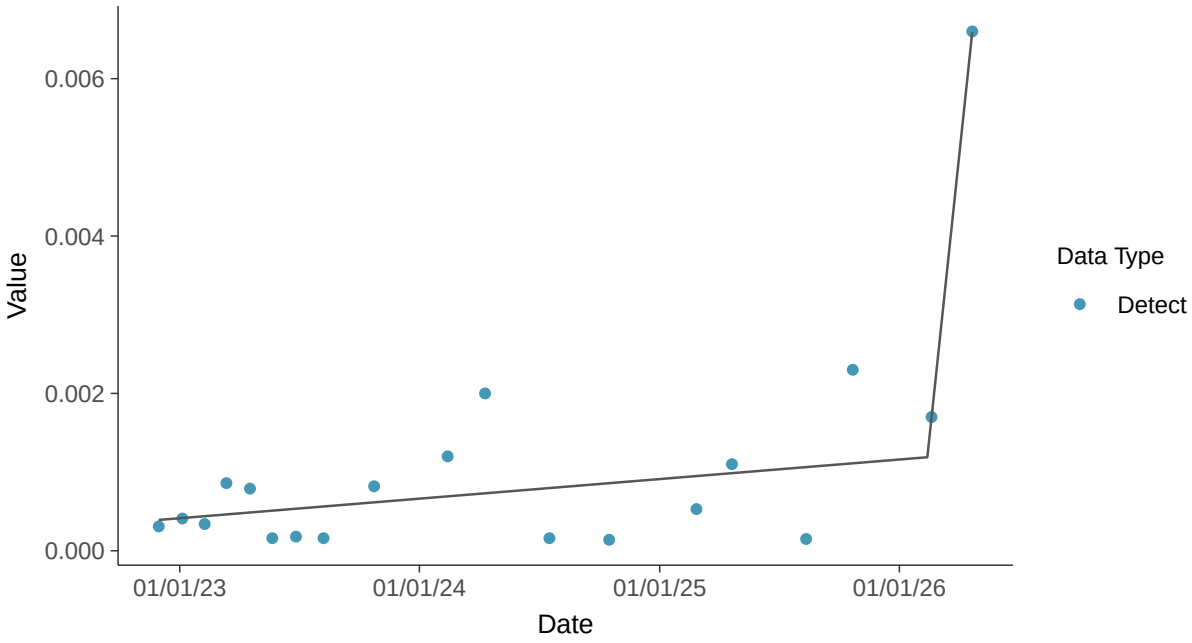
Trend Regression: Lognormal MLE

Selenium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Selenium, MW-18 (mg/L)

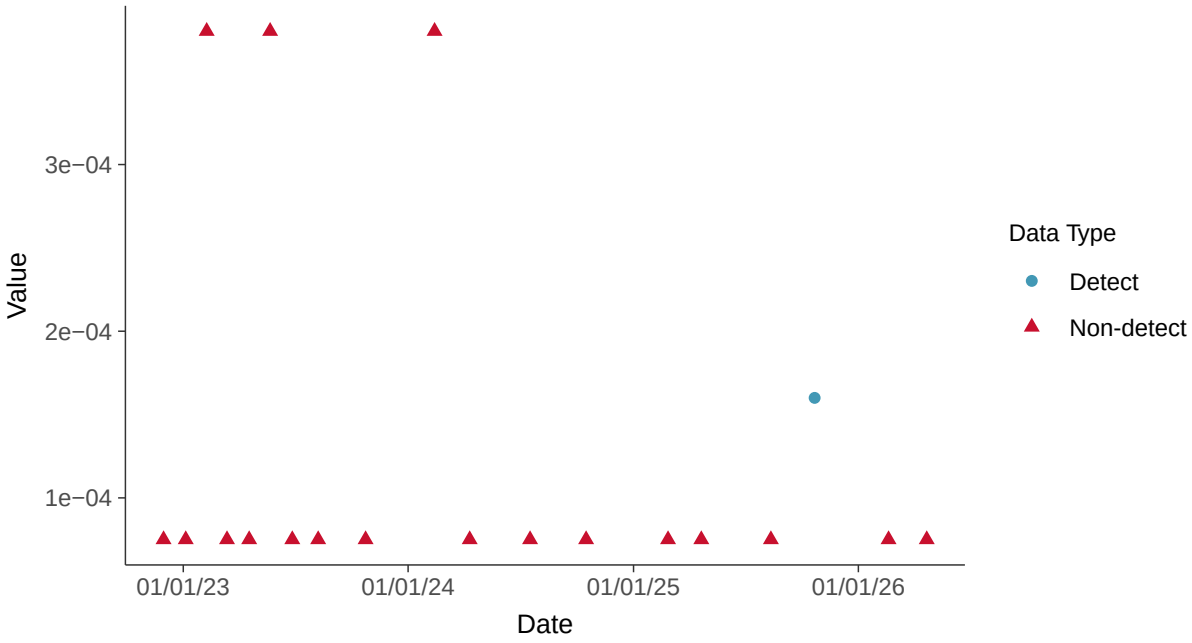


Appendix IV: Thallium, MW-18

ID: 28_1_4_125

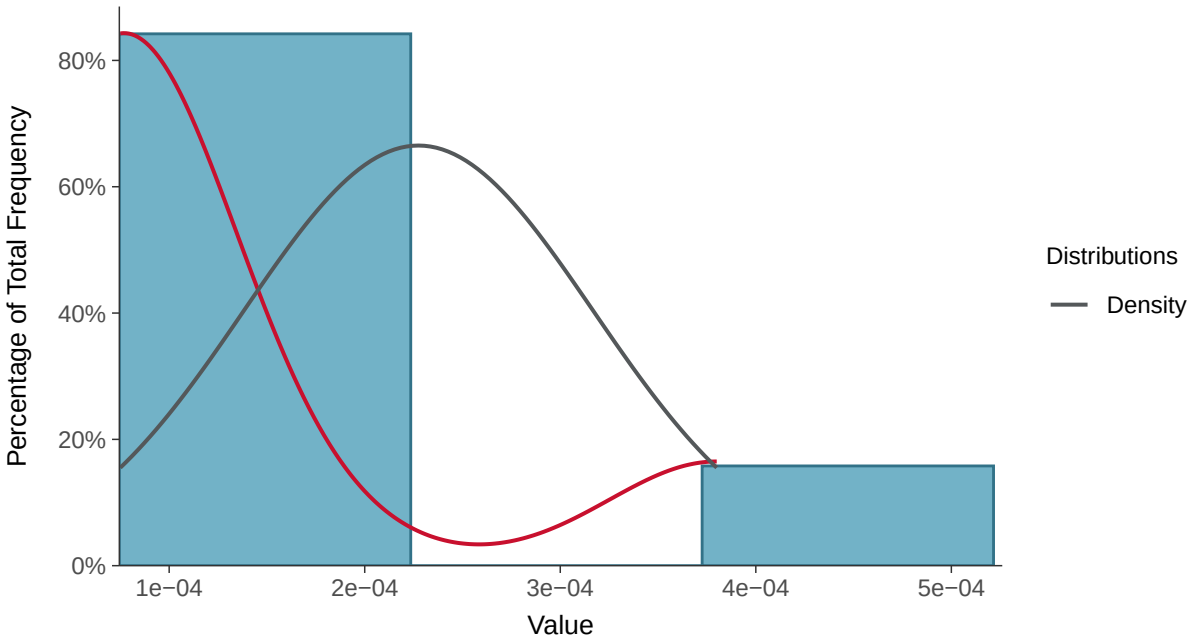
Scatter Plot

Thallium, MW-18 (mg/L)



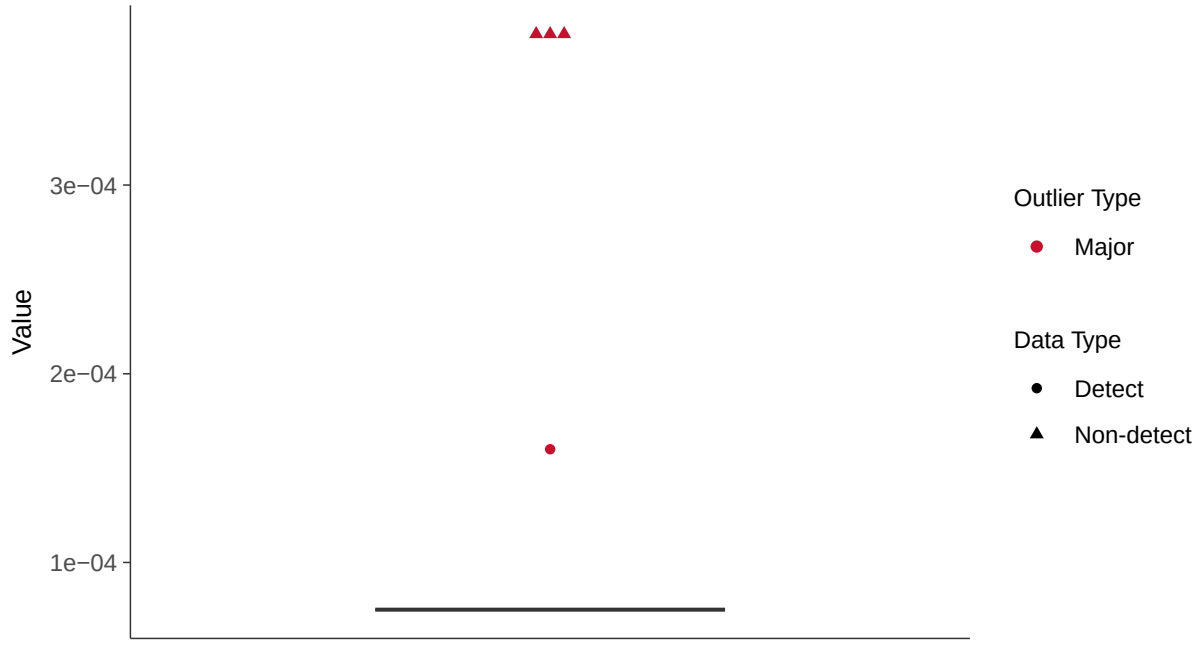
Histogram

Thallium, MW-18 (mg/L)



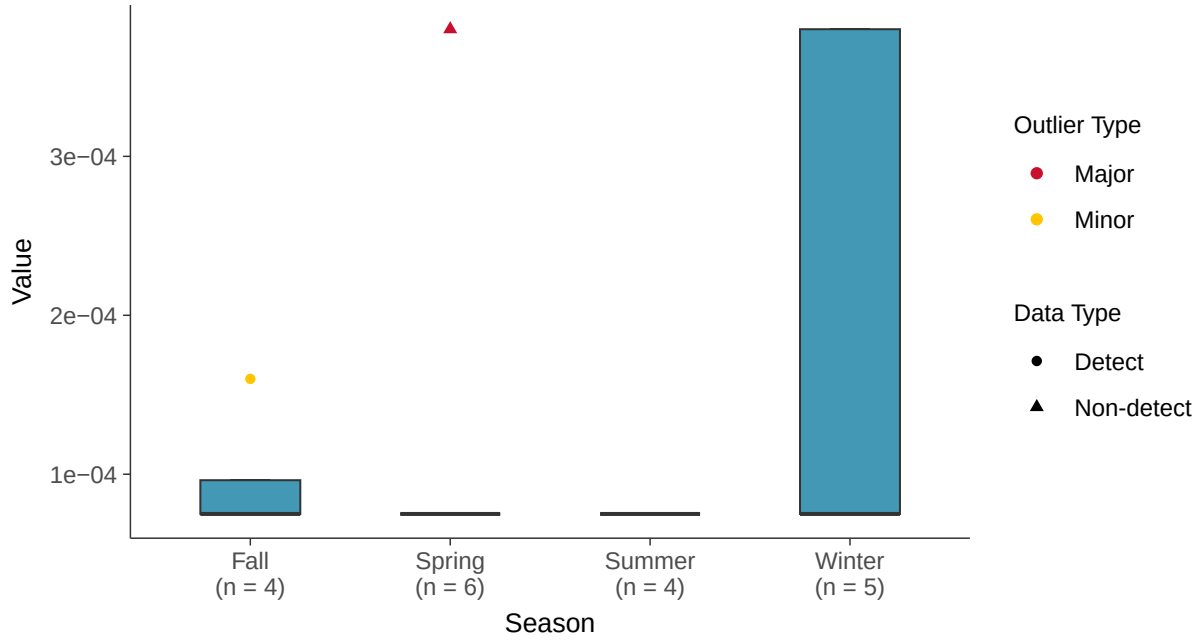
Boxplot

Thallium, MW-18 (mg/L)



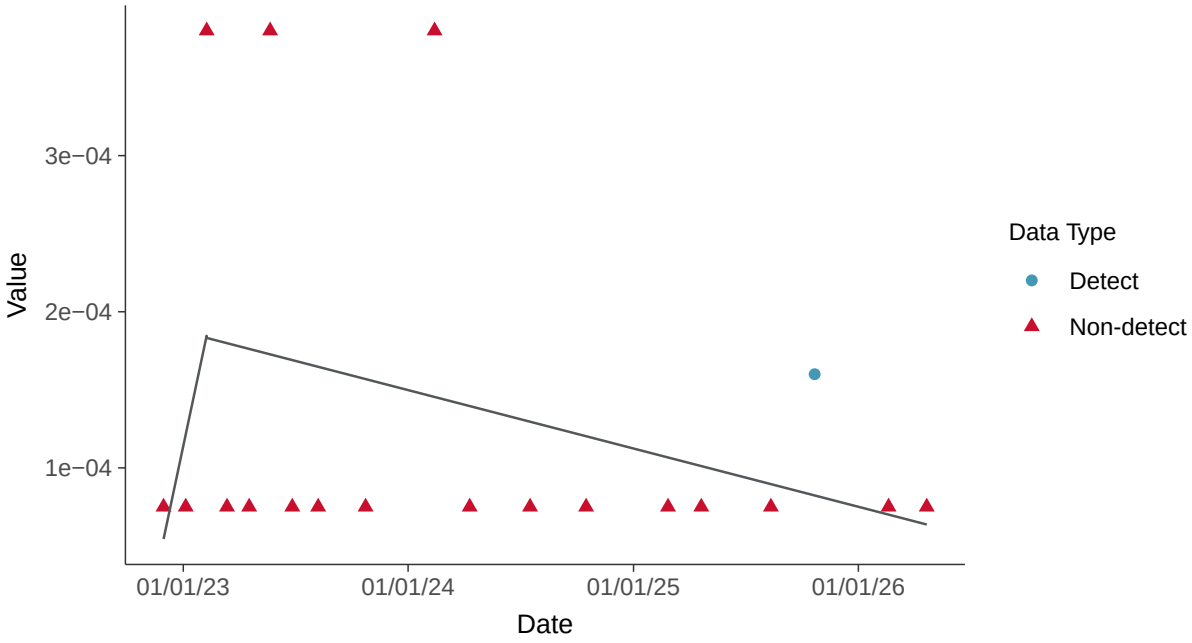
Boxplot by Season

Thallium, MW-18 (mg/L)



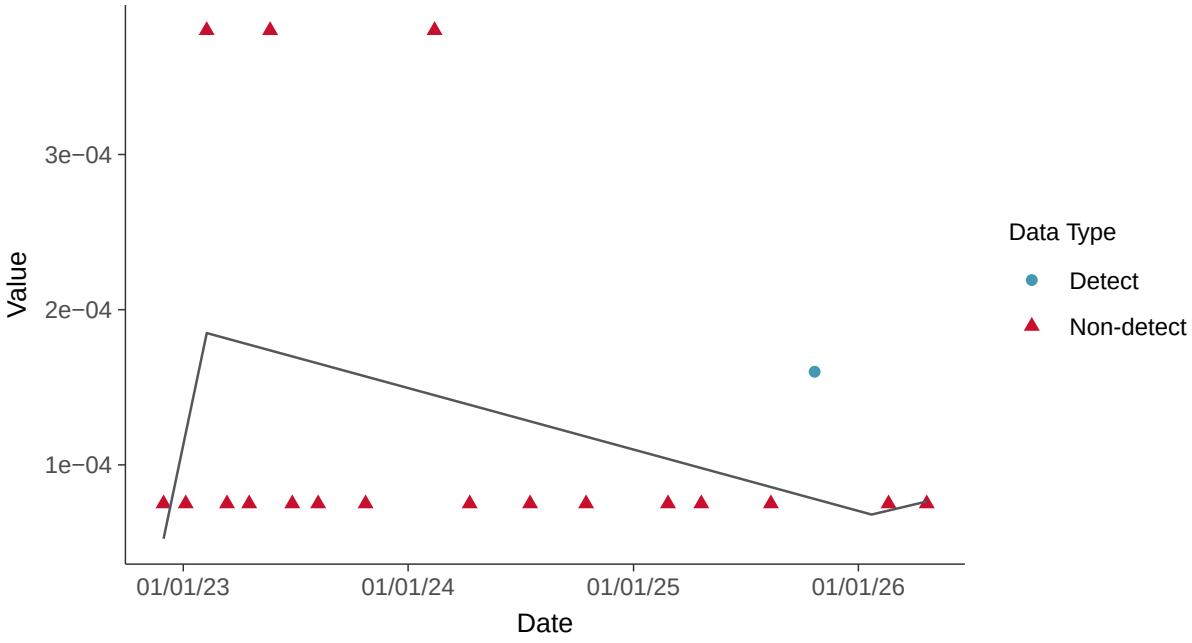
Trend Regression: Piecewise Linear-Linear

Thallium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-18 (mg/L)

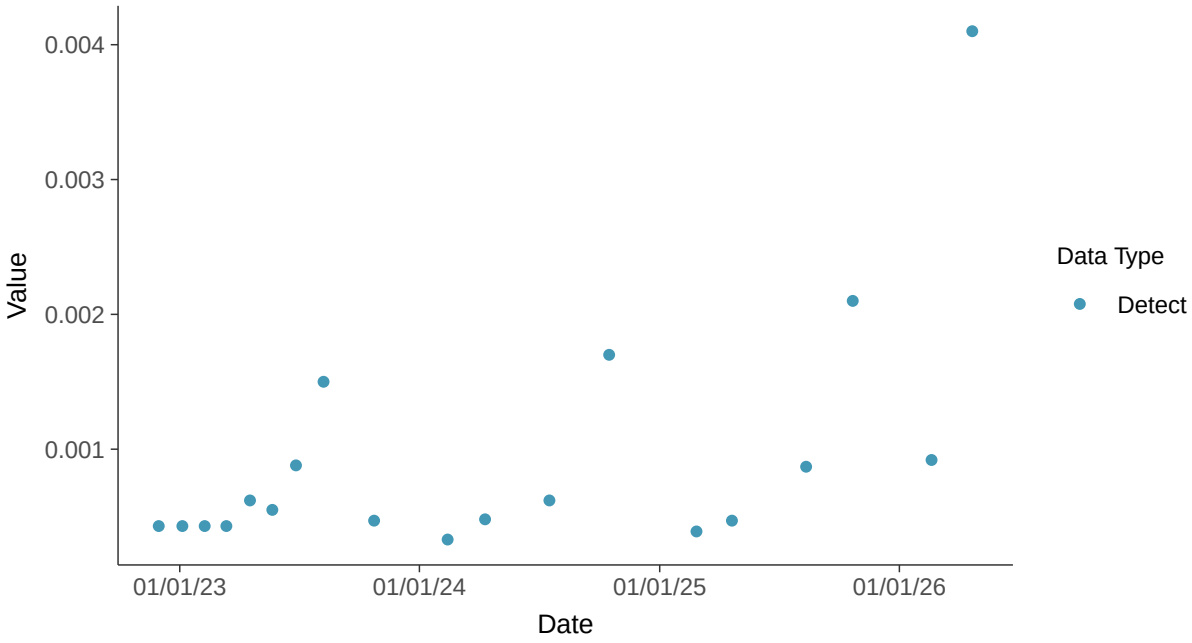


Part 115: Copper, MW-18

ID: 28_1_5_111

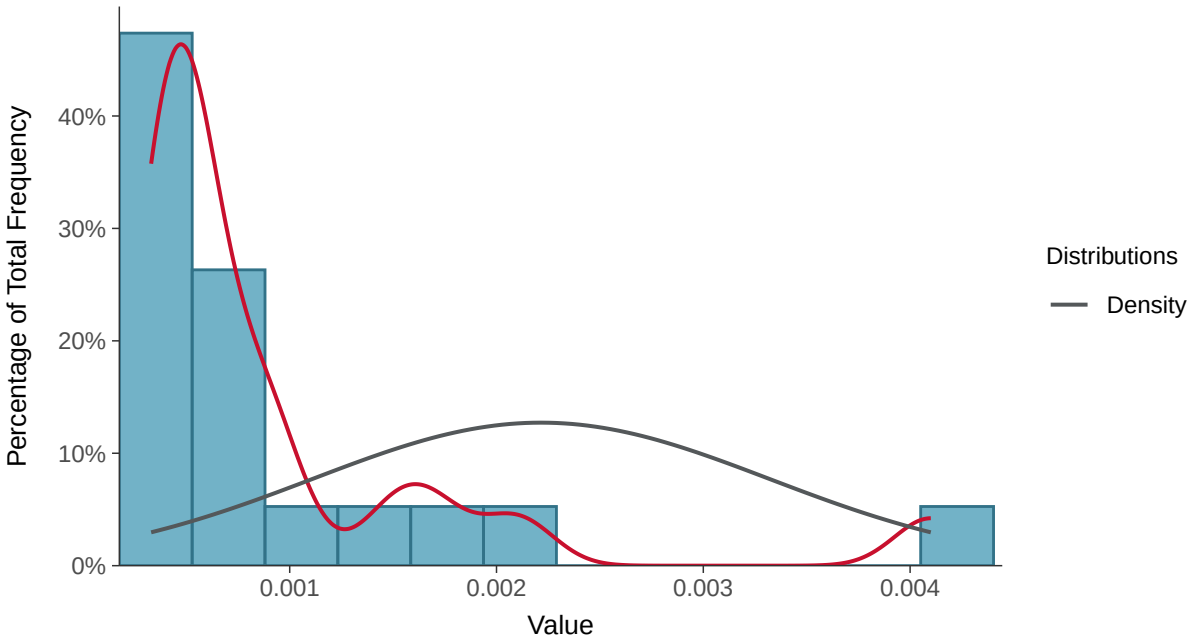
Scatter Plot

Copper, MW-18 (mg/L)



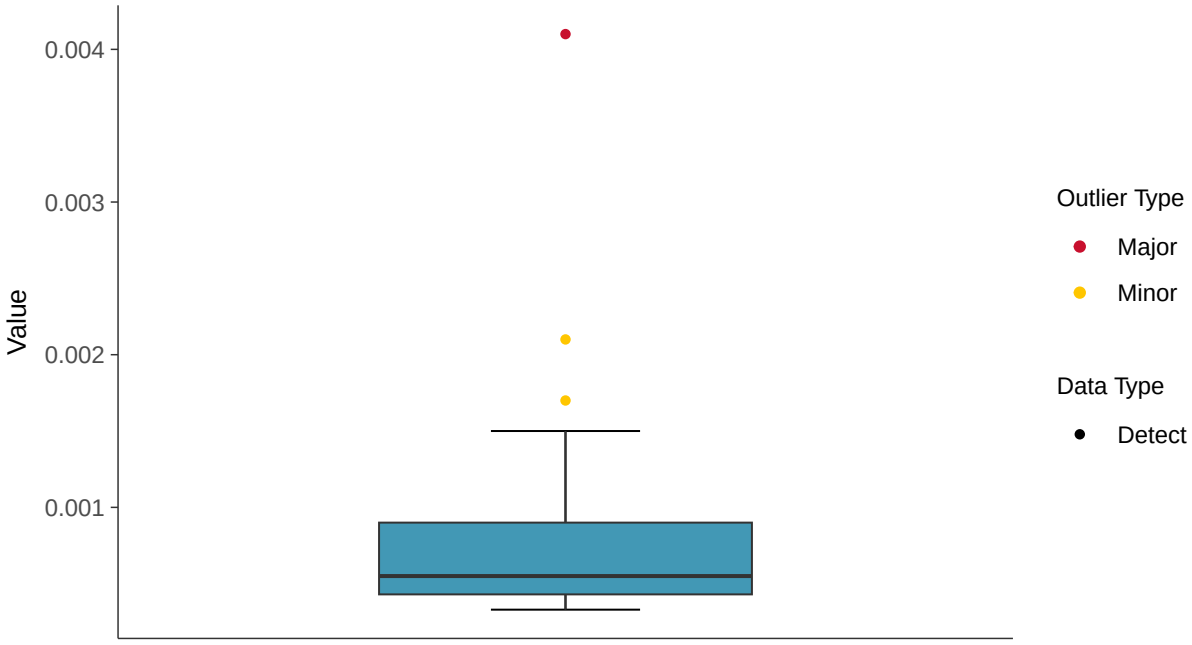
Histogram

Copper, MW-18 (mg/L)



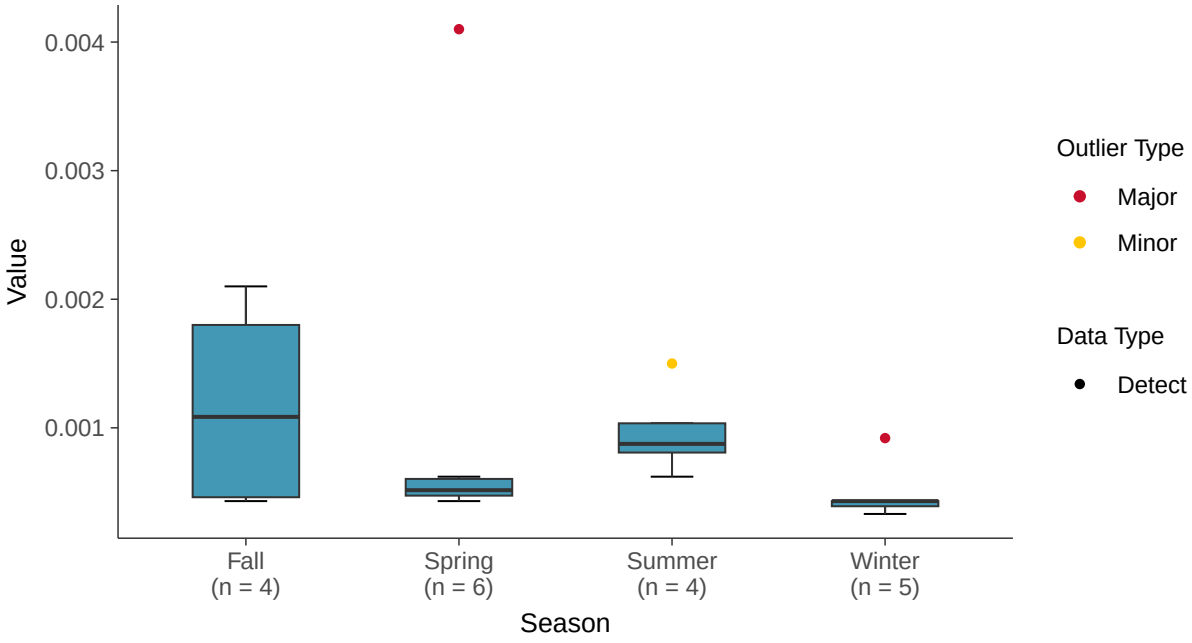
Boxplot

Copper, MW-18 (mg/L)



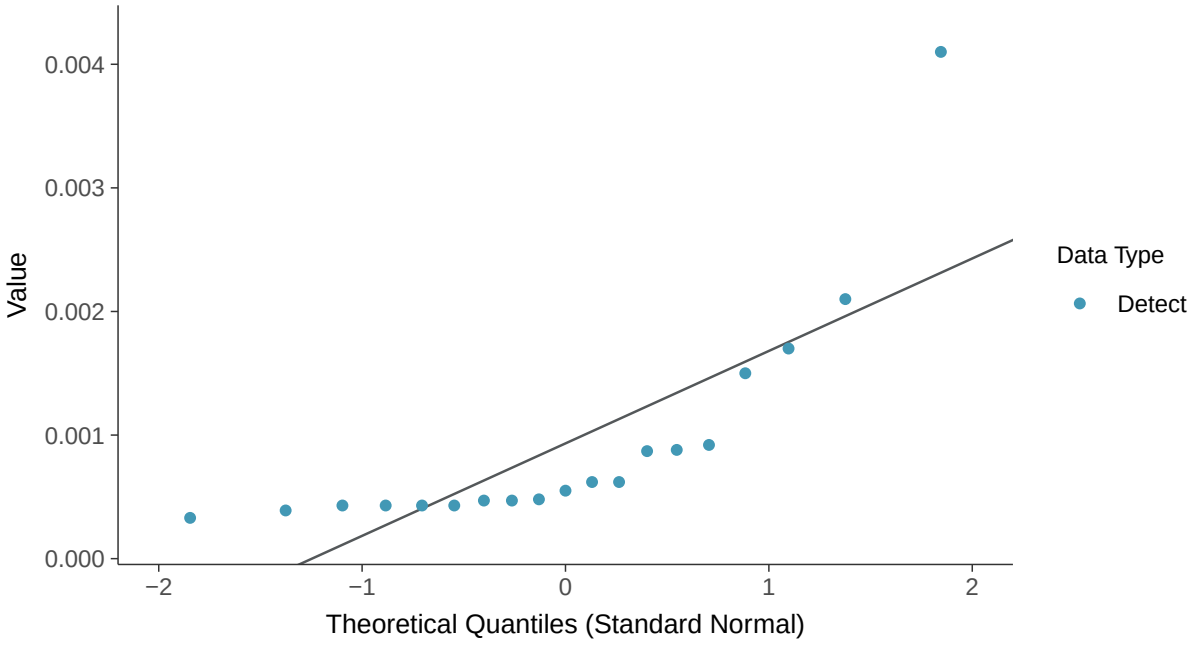
Boxplot by Season

Copper, MW-18 (mg/L)



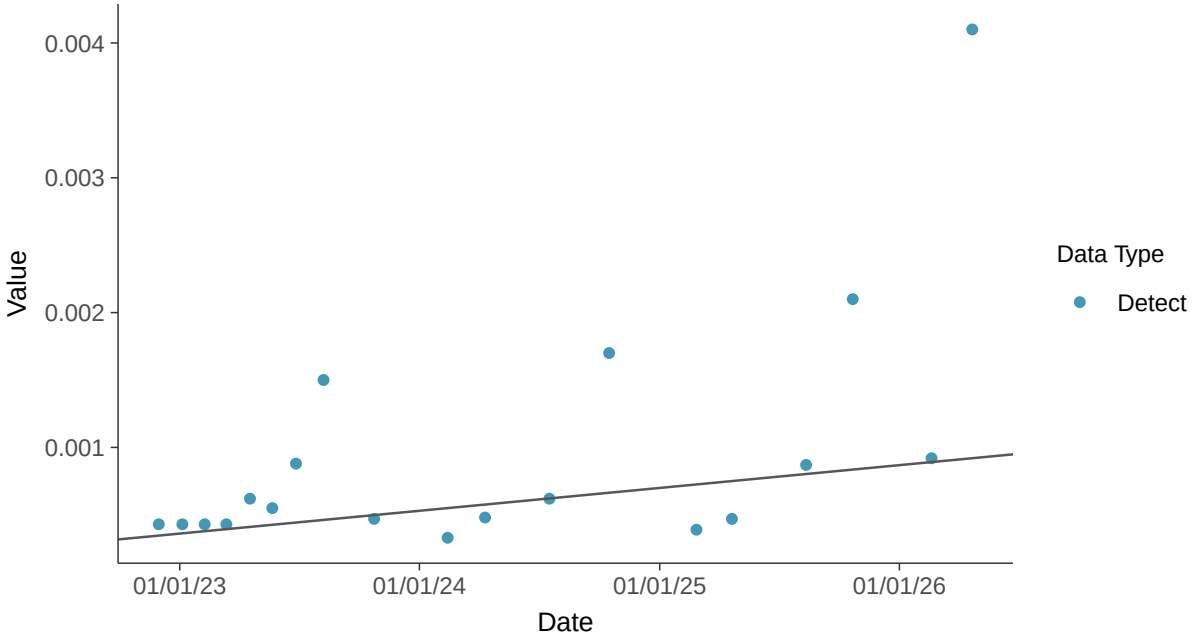
Normal Q-Q plot

Copper, MW-18 (mg/L)



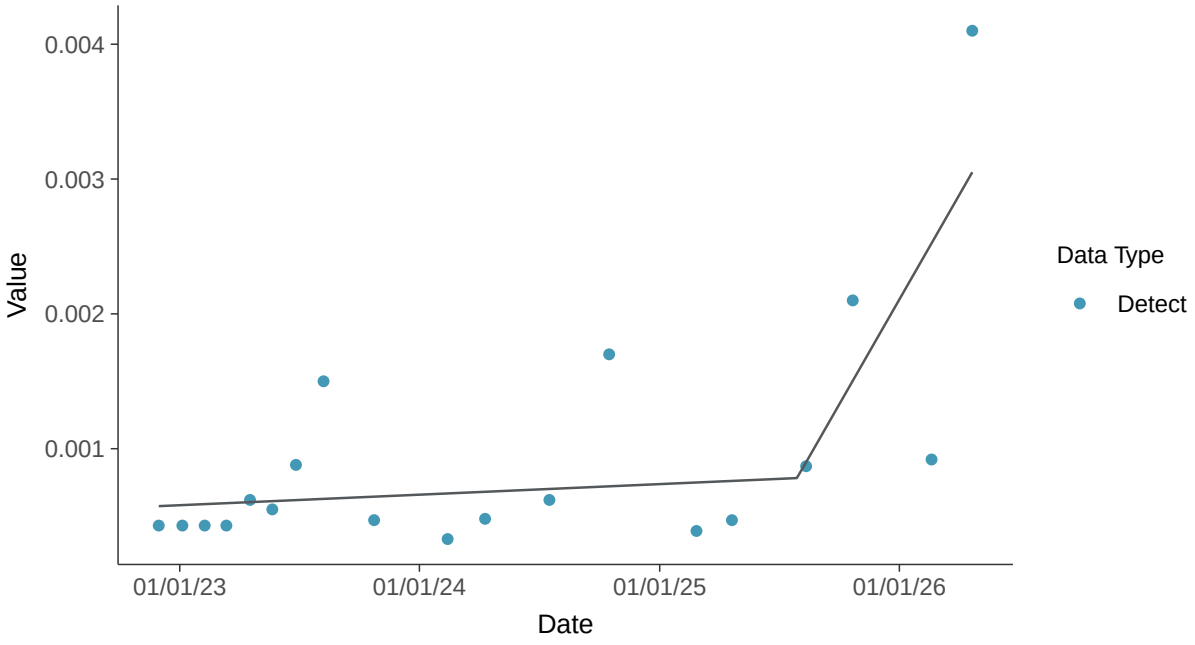
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Copper, MW-18 (mg/L)



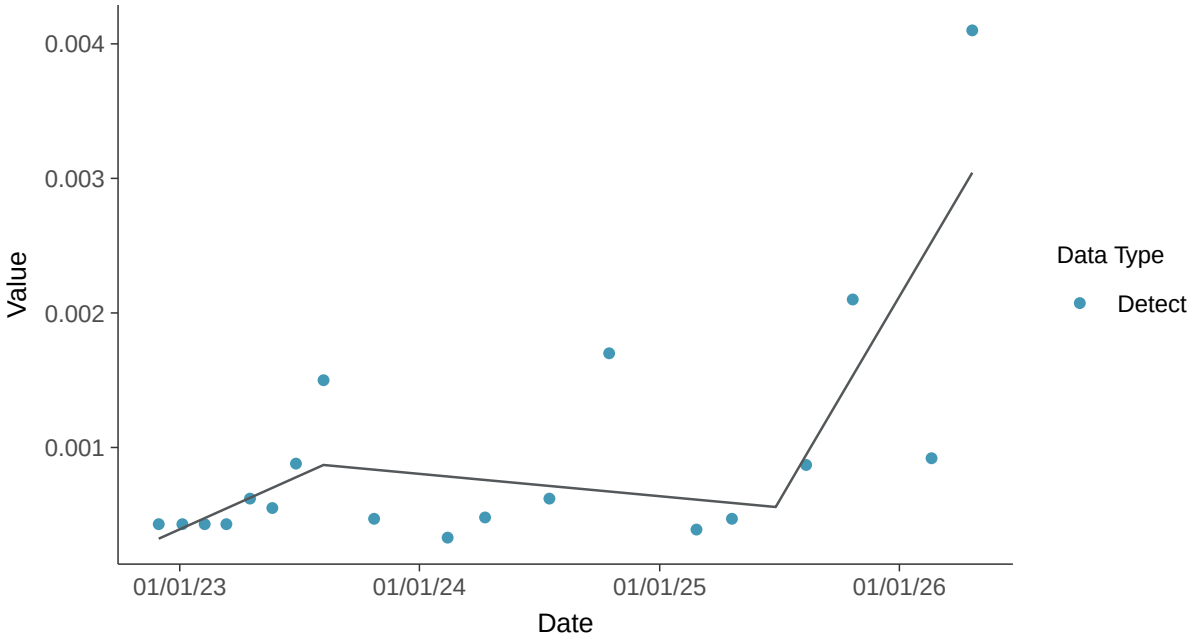
Trend Regression: Piecewise Linear-Linear

Copper, MW-18 (mg/L)



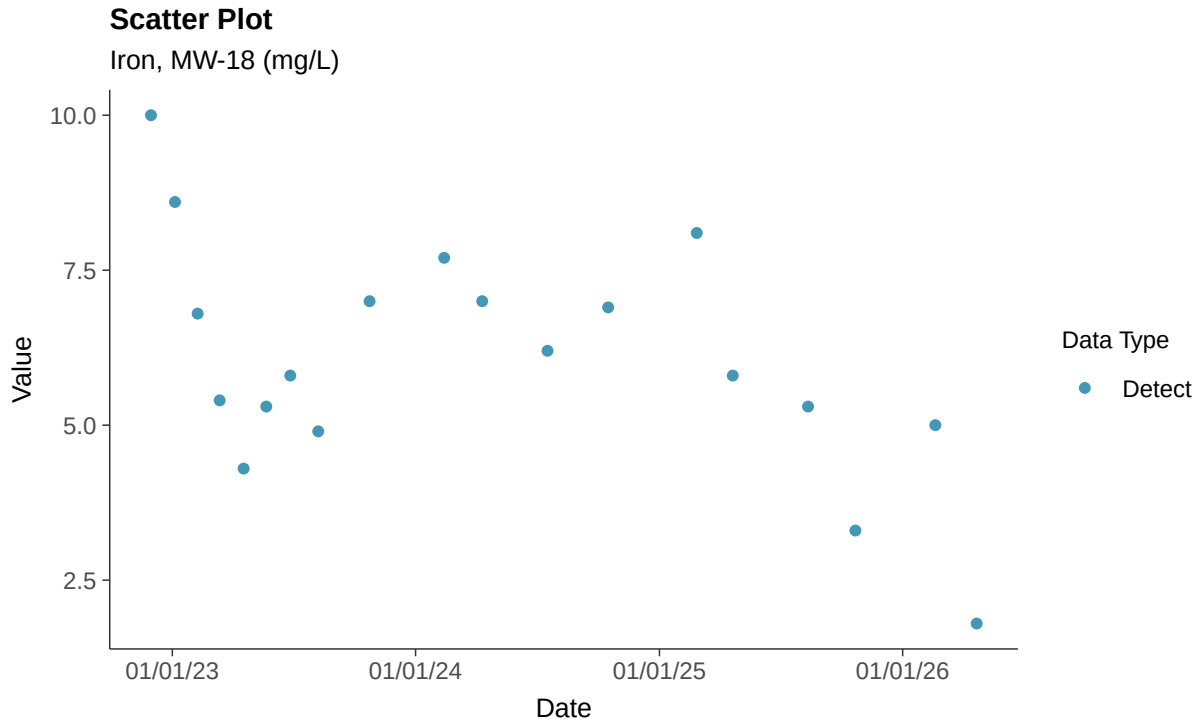
Trend Regression: Piecewise Linear-Linear-Linear

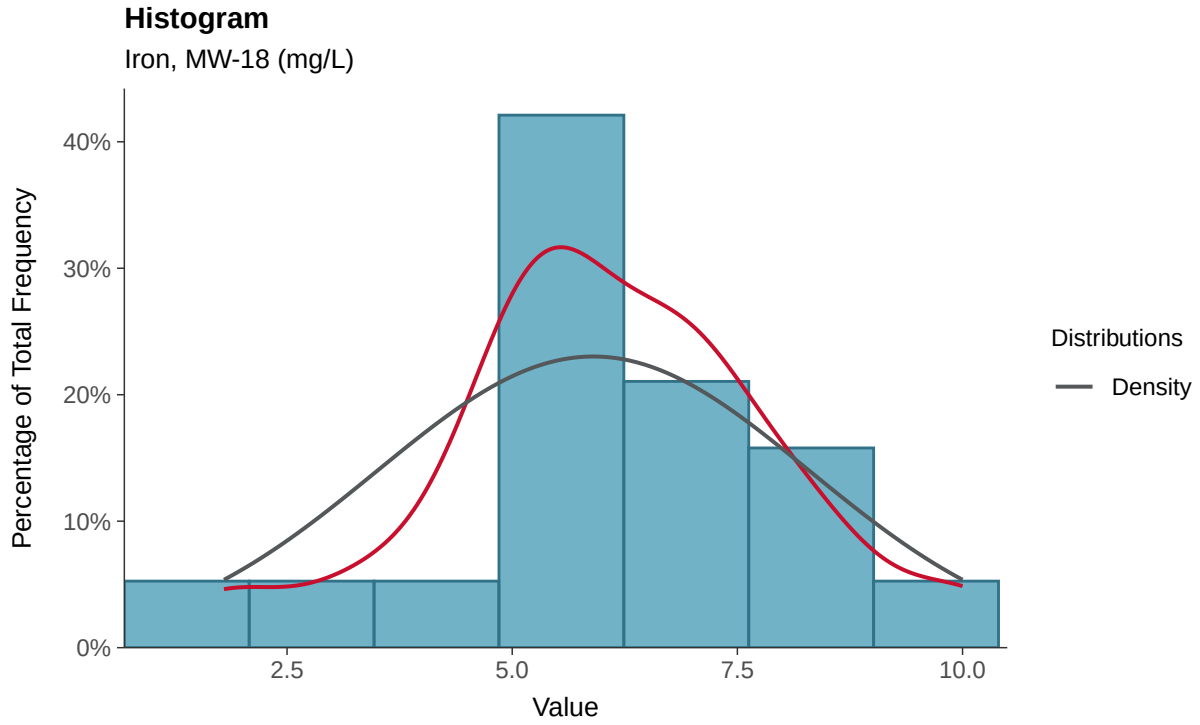
Copper, MW-18 (mg/L)



Part 115: Iron, MW-18

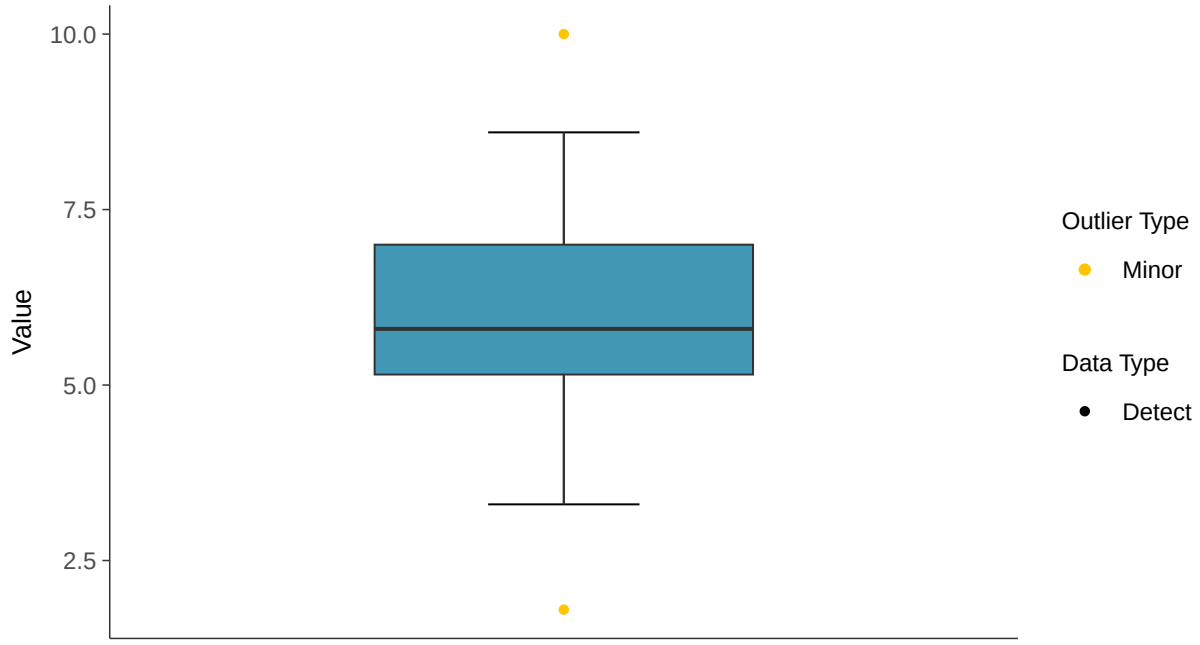
ID: 28_1_5_114





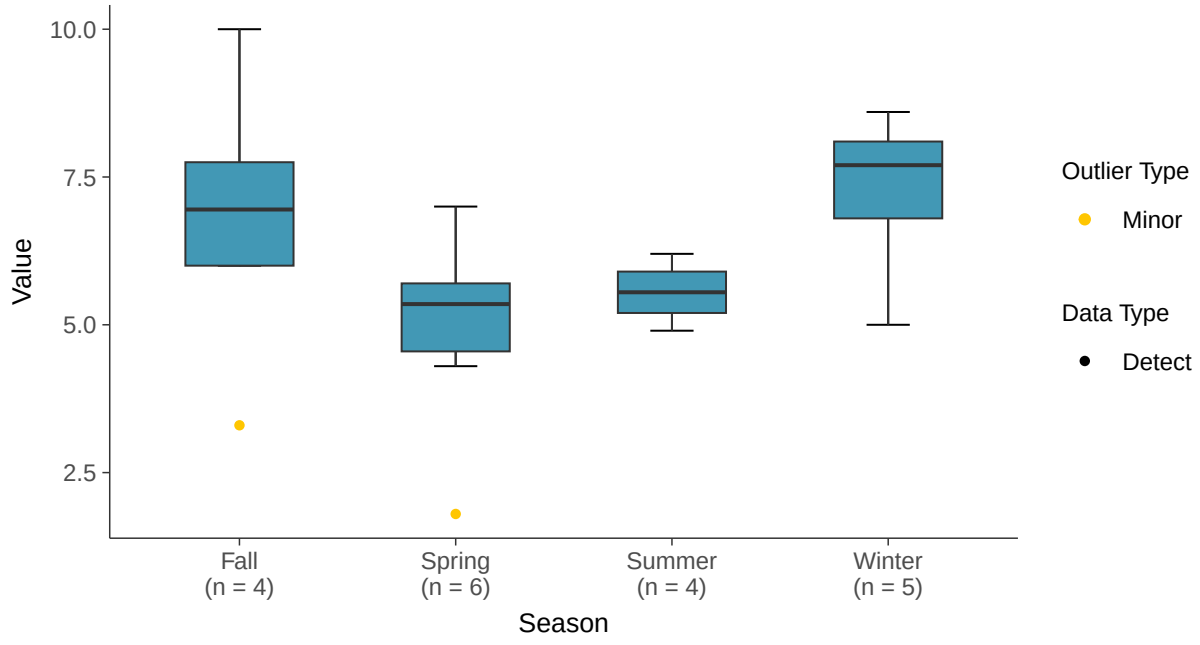
Boxplot

Iron, MW-18 (mg/L)



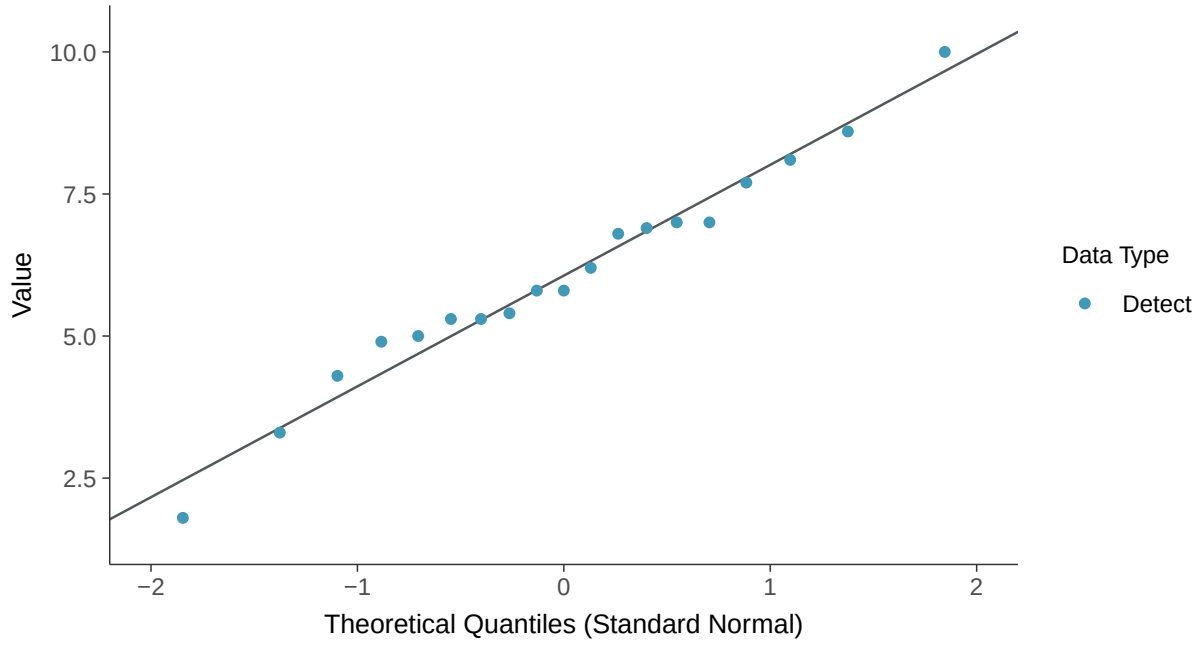
Boxplot by Season

Iron, MW-18 (mg/L)



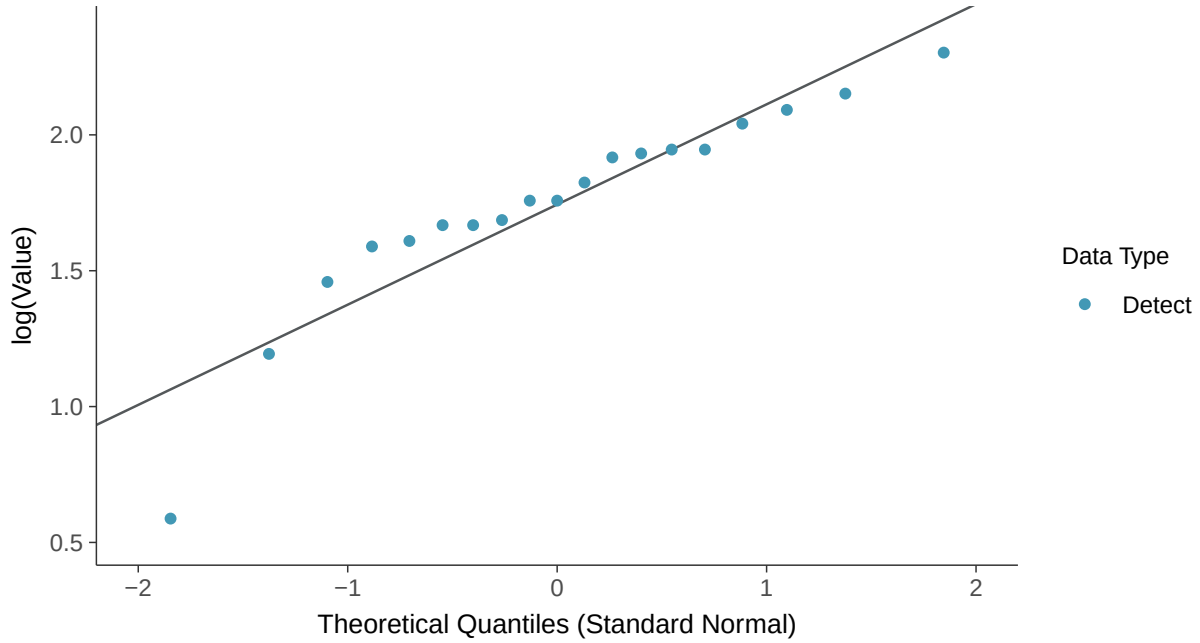
Normal Q-Q plot

Iron, MW-18 (mg/L)



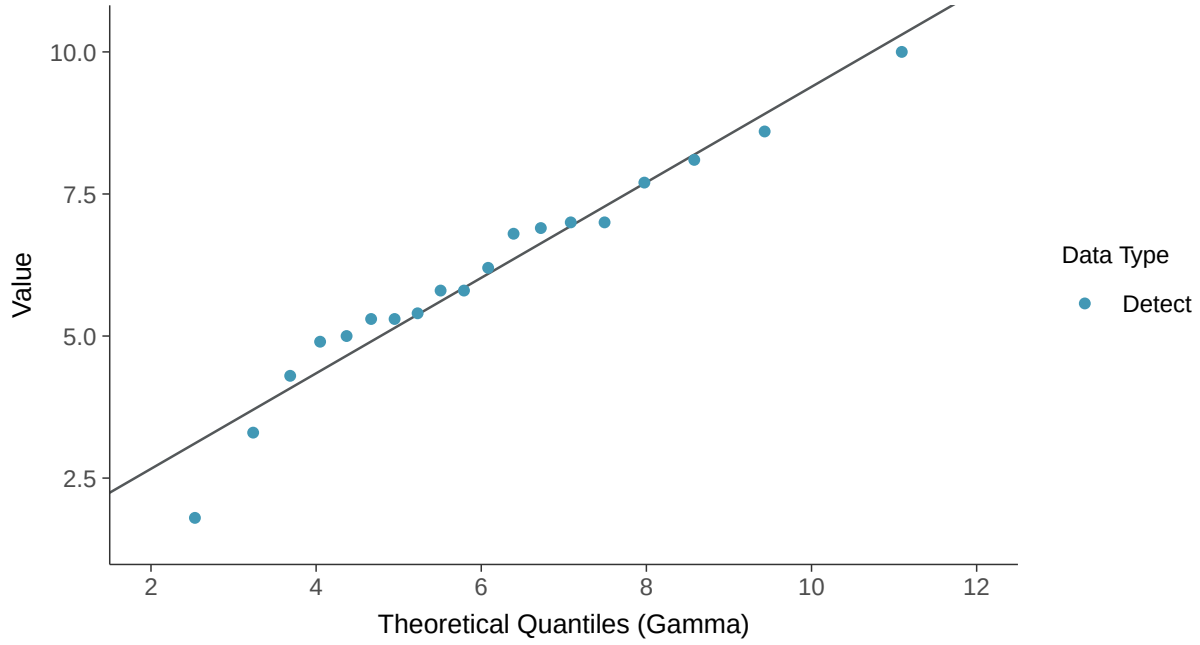
Lognormal Q-Q plot

Iron, MW-18 (mg/L)



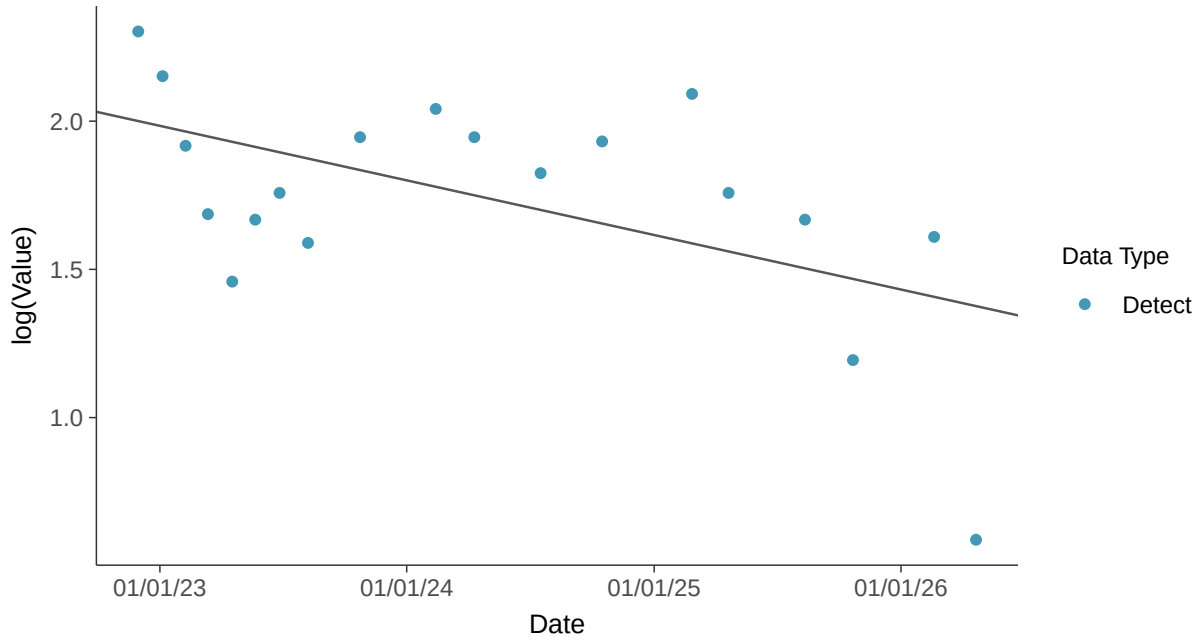
Gamma Q-Q plot

Iron, MW-18 (mg/L)



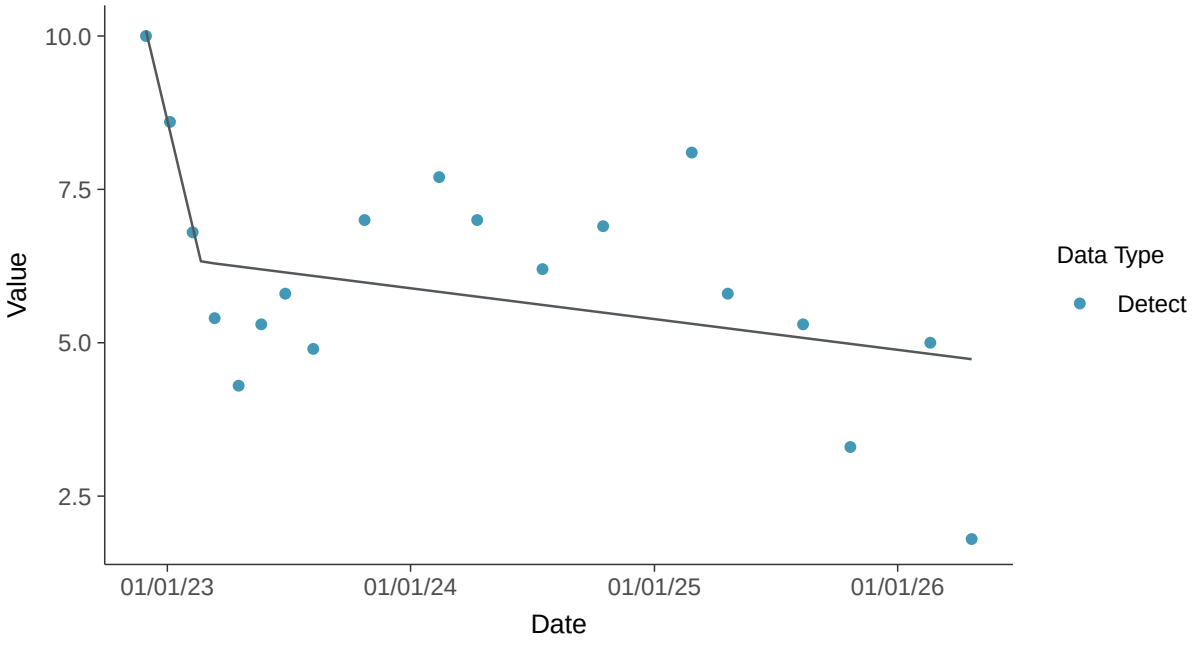
Trend Regression: Lognormal MLE

Iron, MW-18 (mg/L)



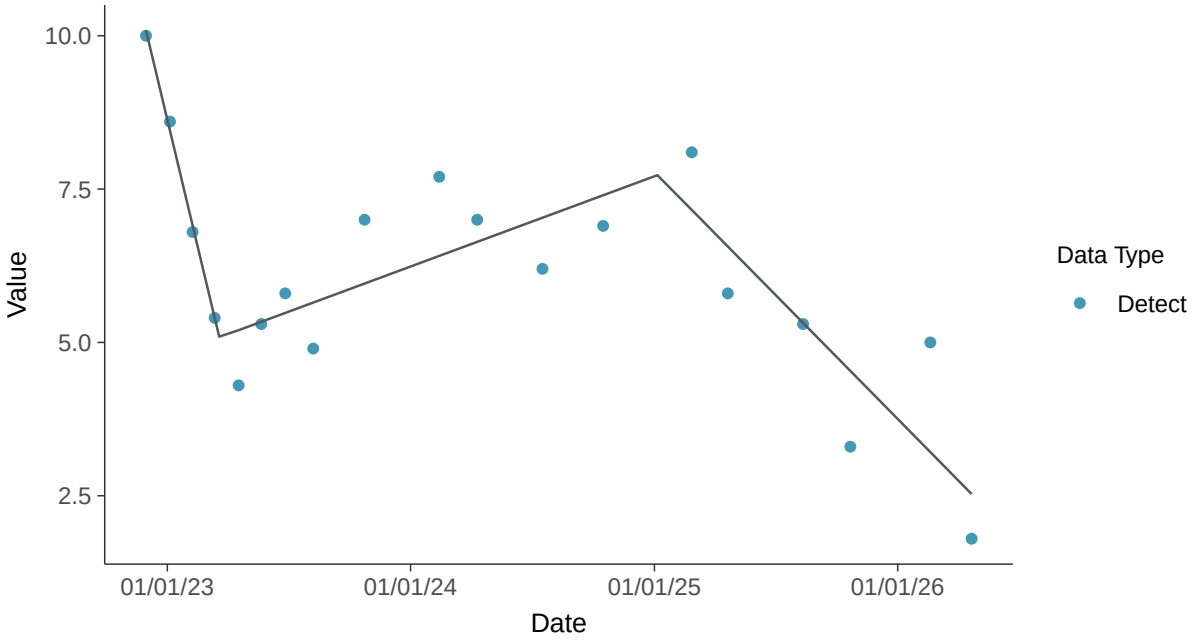
Trend Regression: Piecewise Linear-Linear

Iron, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-18 (mg/L)

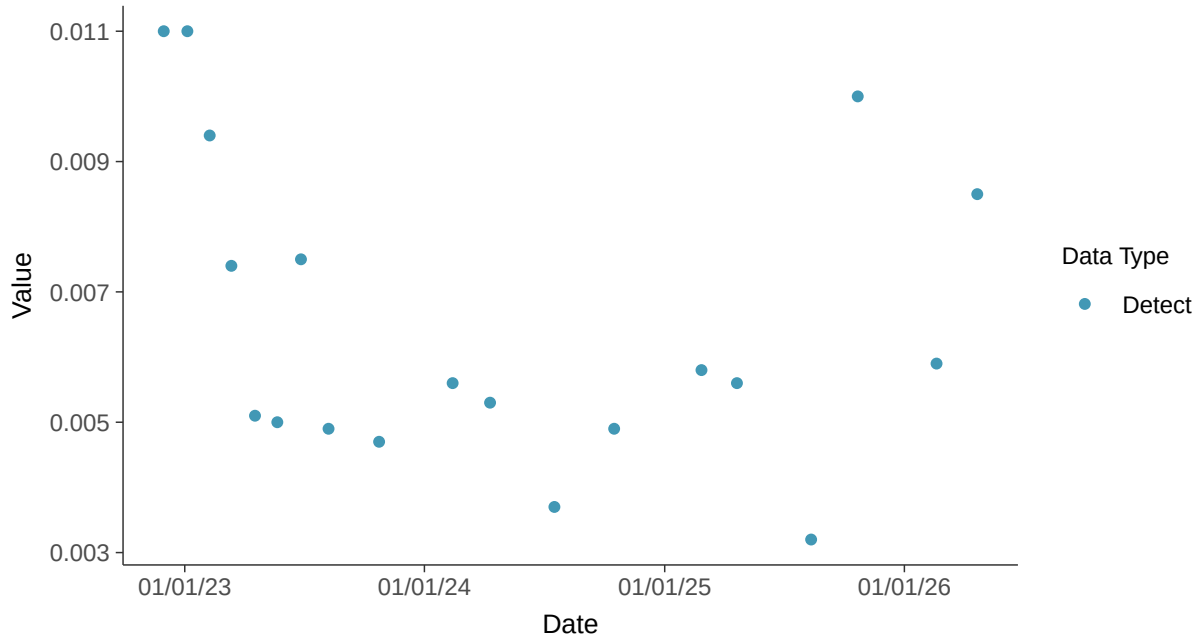


Part 115: Nickel, MW-18

ID: 28_1_5_119

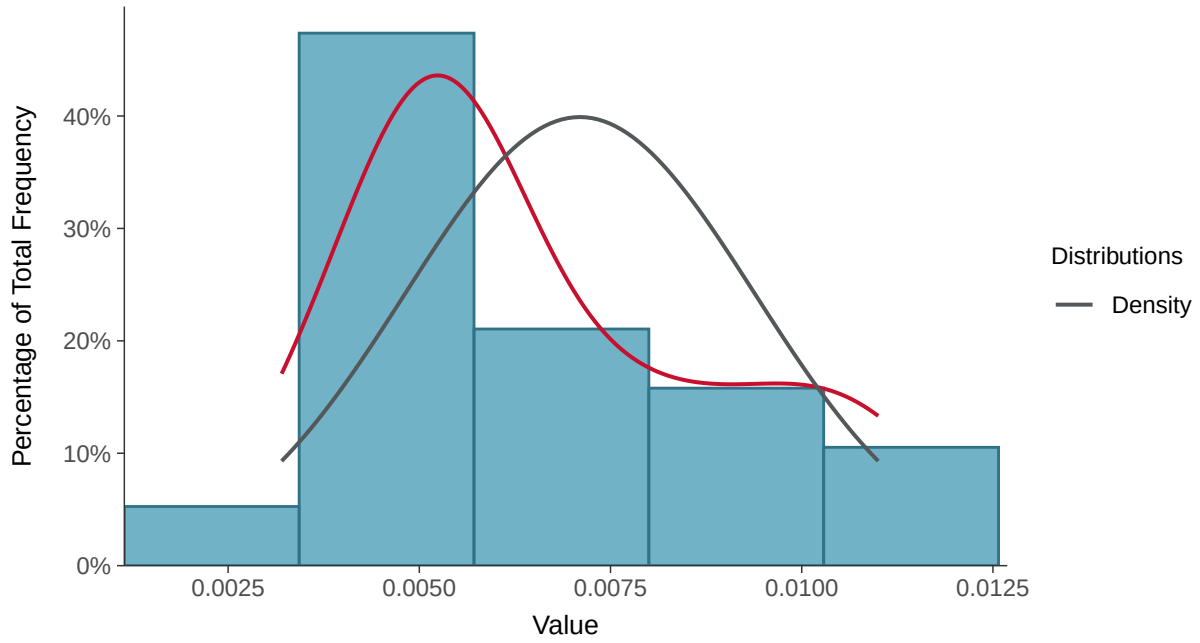
Scatter Plot

Nickel, MW-18 (mg/L)



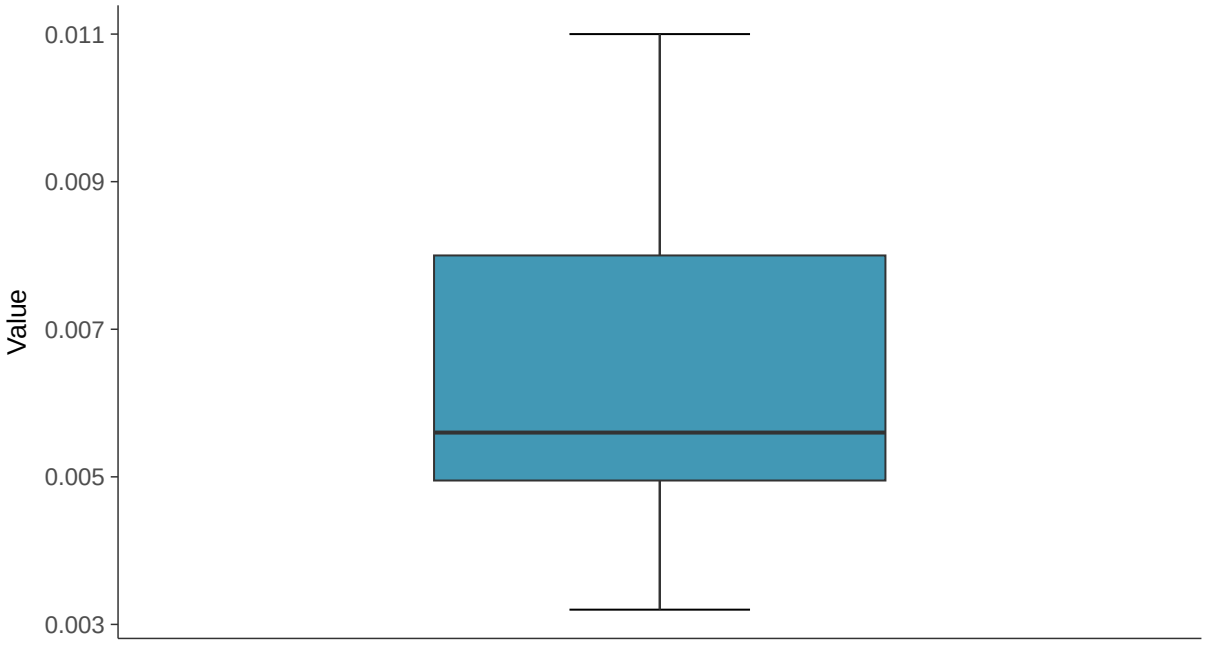
Histogram

Nickel, MW-18 (mg/L)



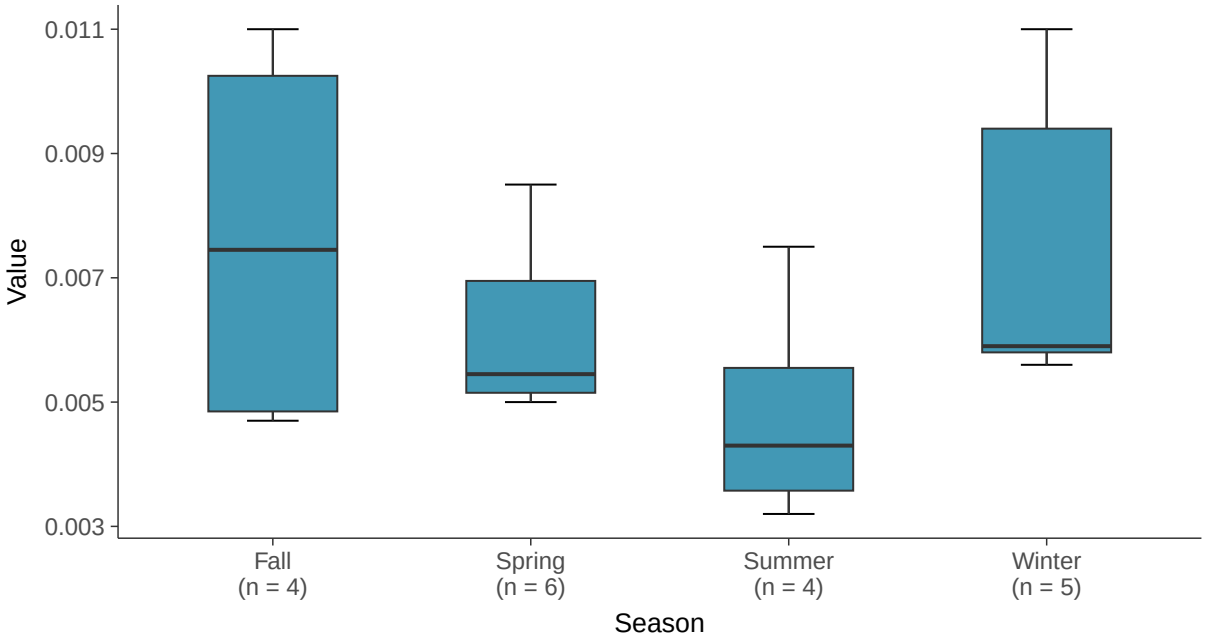
Boxplot

Nickel, MW-18 (mg/L)



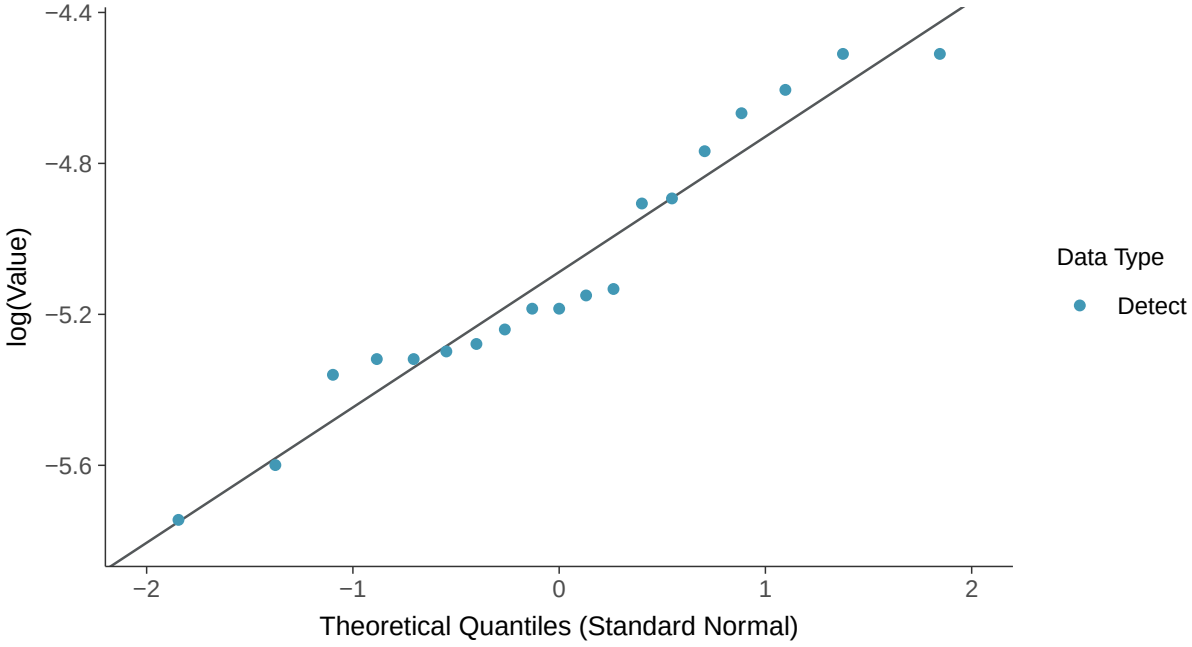
Boxplot by Season

Nickel, MW-18 (mg/L)



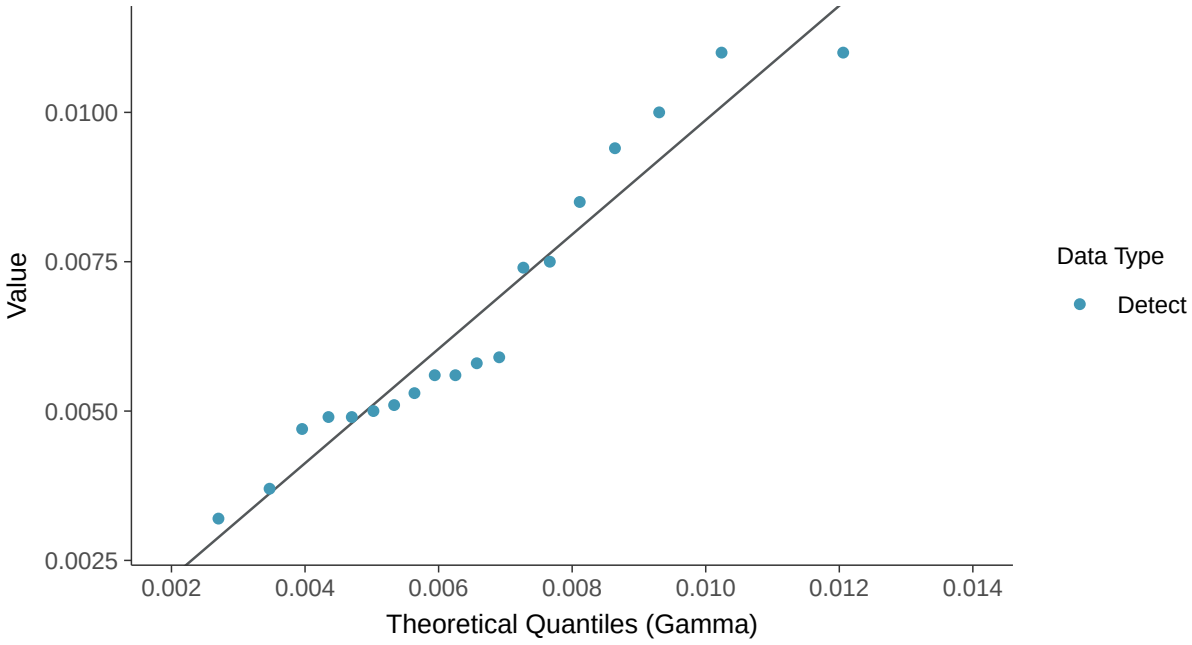
Lognormal Q-Q plot

Nickel, MW-18 (mg/L)



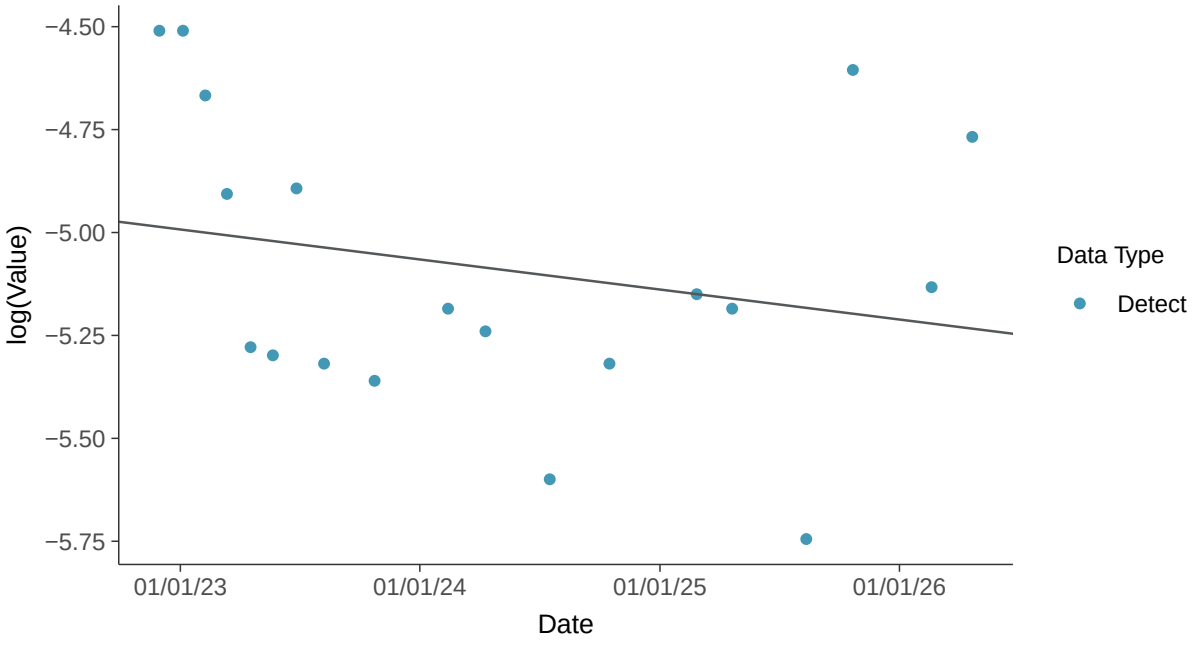
Gamma Q-Q plot

Nickel, MW-18 (mg/L)



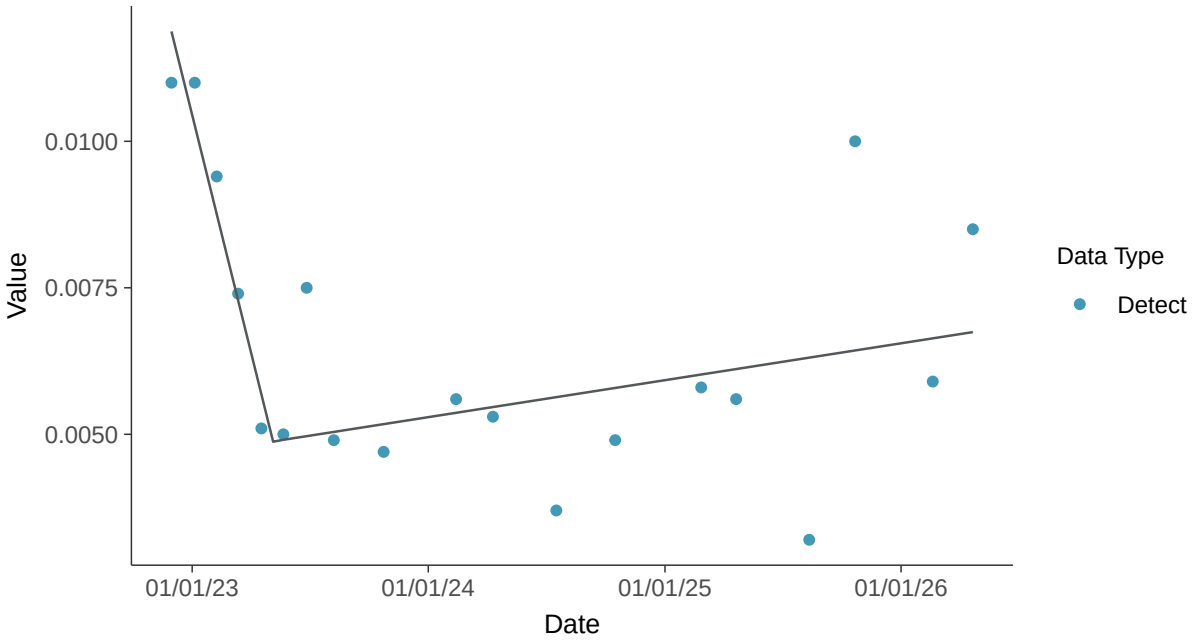
Trend Regression: Lognormal MLE

Nickel, MW-18 (mg/L)



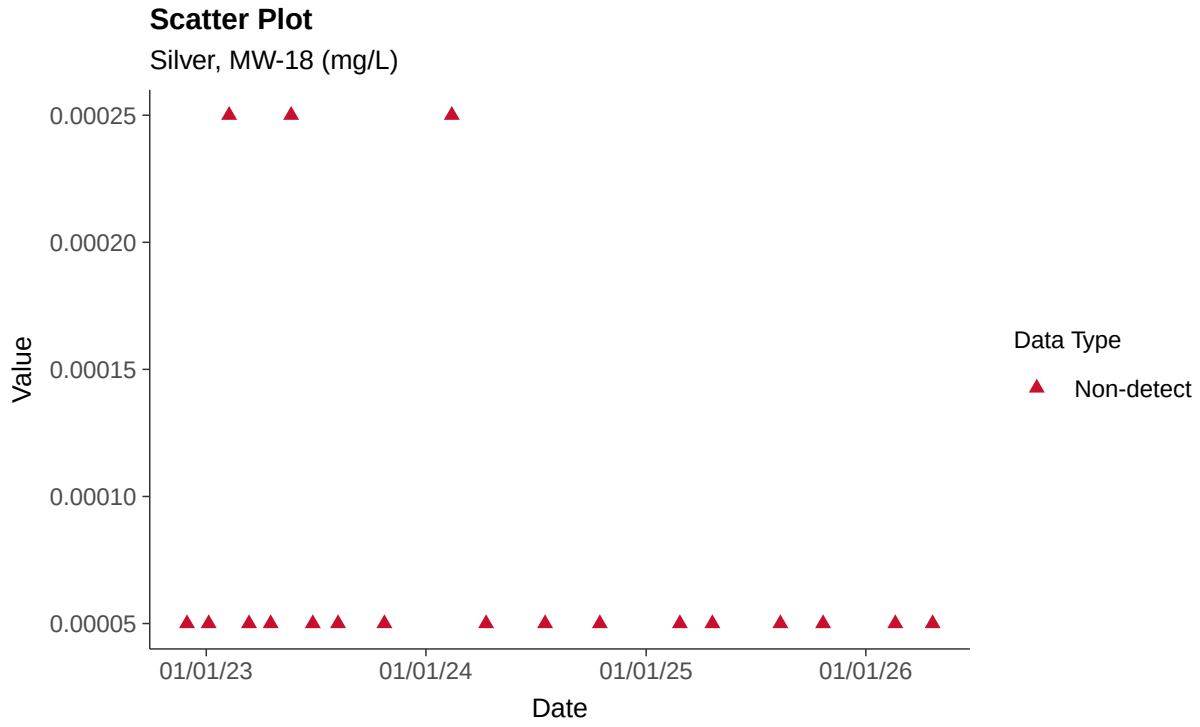
Trend Regression: Piecewise Linear-Linear

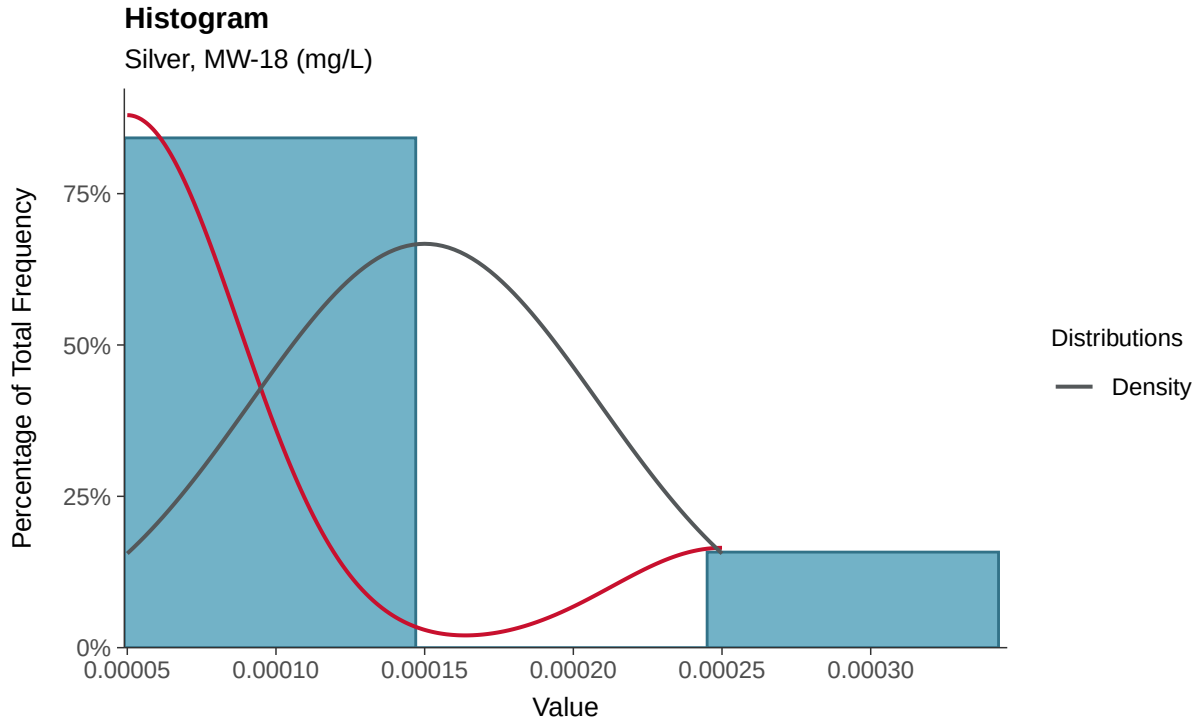
Nickel, MW-18 (mg/L)



Part 115: Silver, MW-18

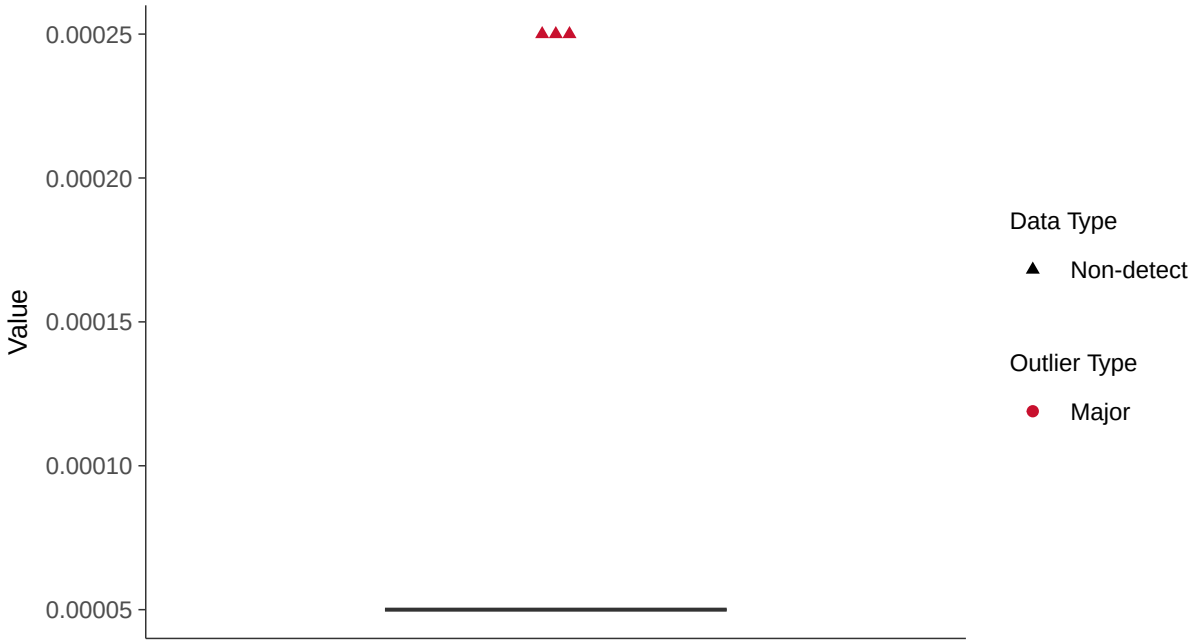
ID: 28_1_5_123





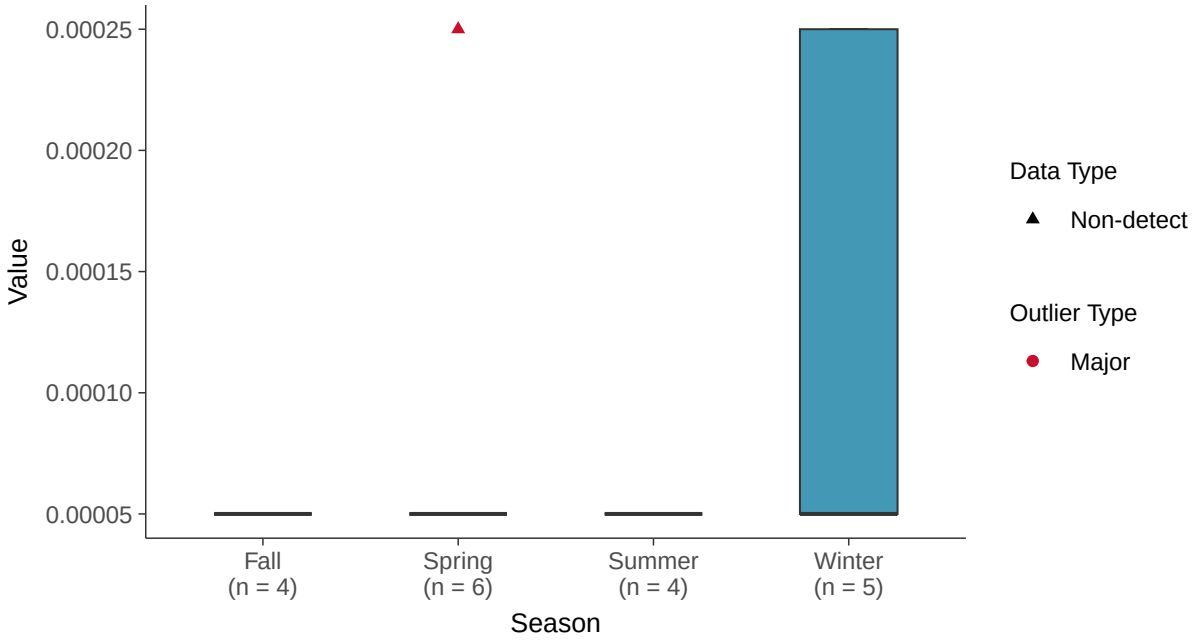
Boxplot

Silver, MW-18 (mg/L)



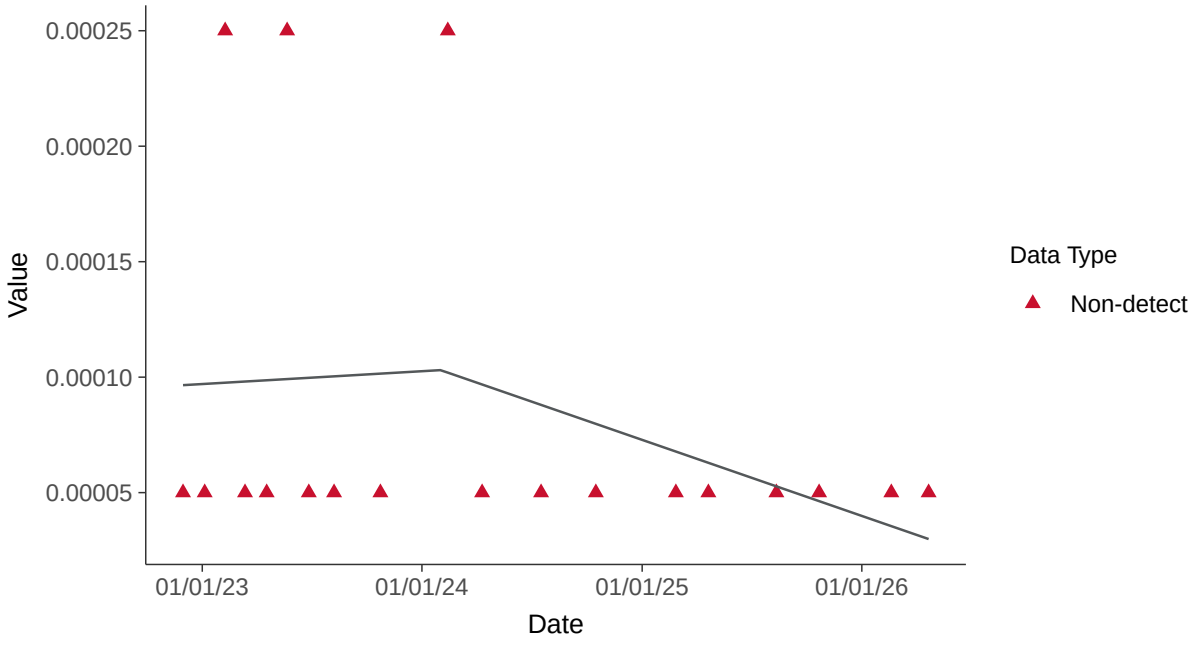
Boxplot by Season

Silver, MW-18 (mg/L)



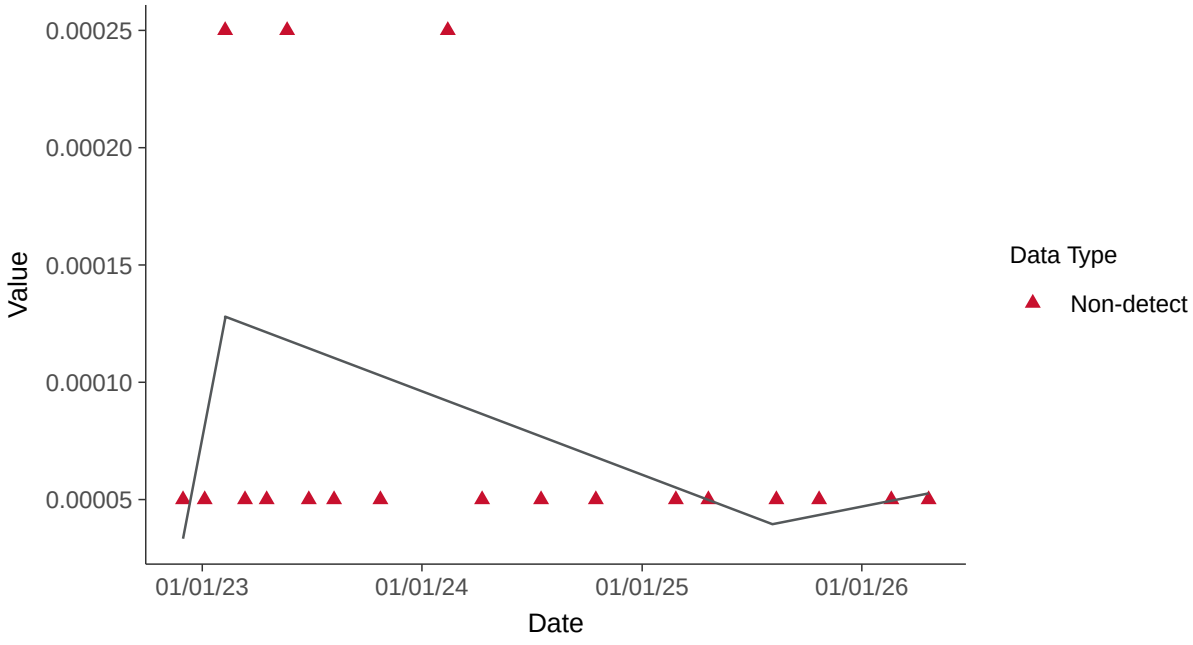
Trend Regression: Piecewise Linear-Linear

Silver, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-18 (mg/L)

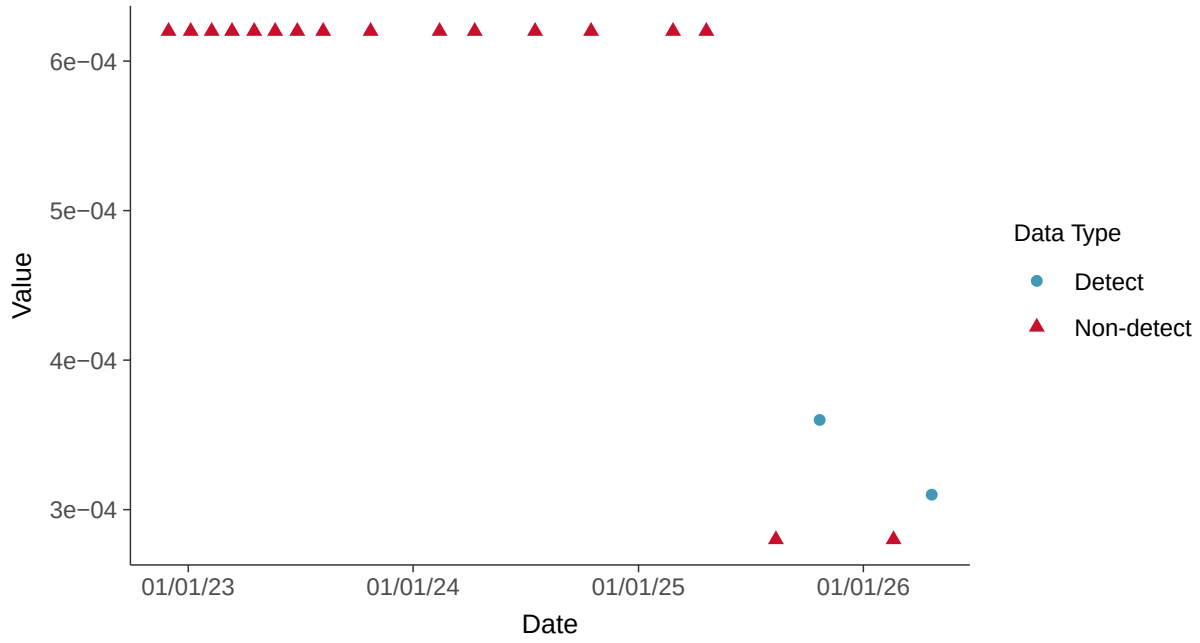


Part 115: Vanadium, MW-18

ID: 28_1_5_128

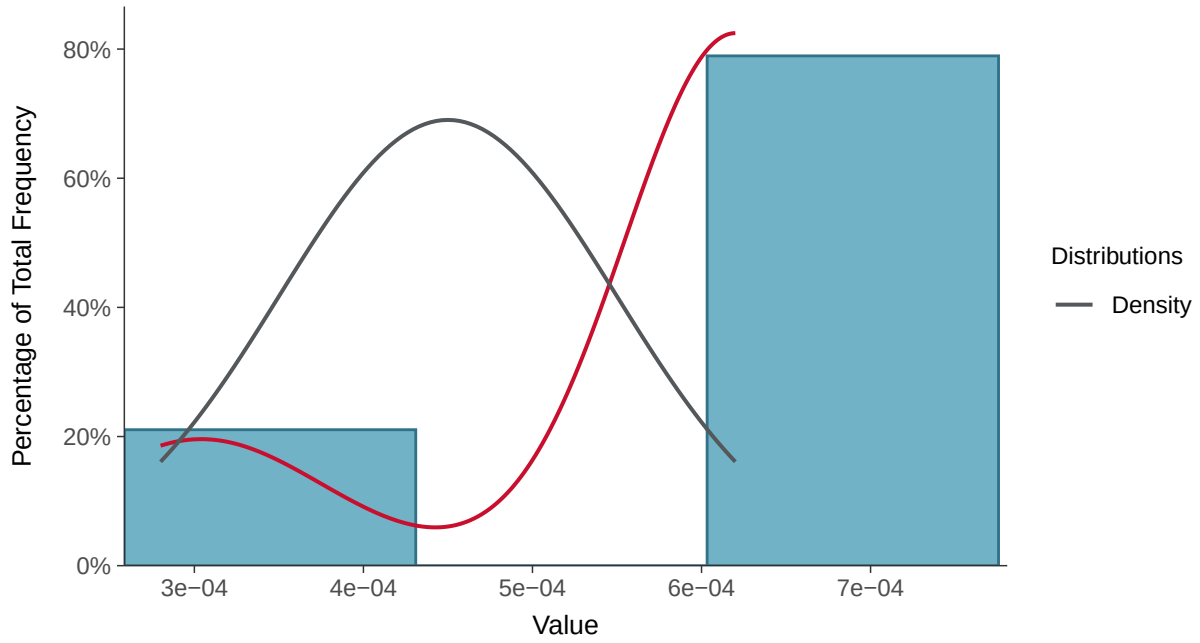
Scatter Plot

Vanadium, MW-18 (mg/L)



Histogram

Vanadium, MW-18 (mg/L)

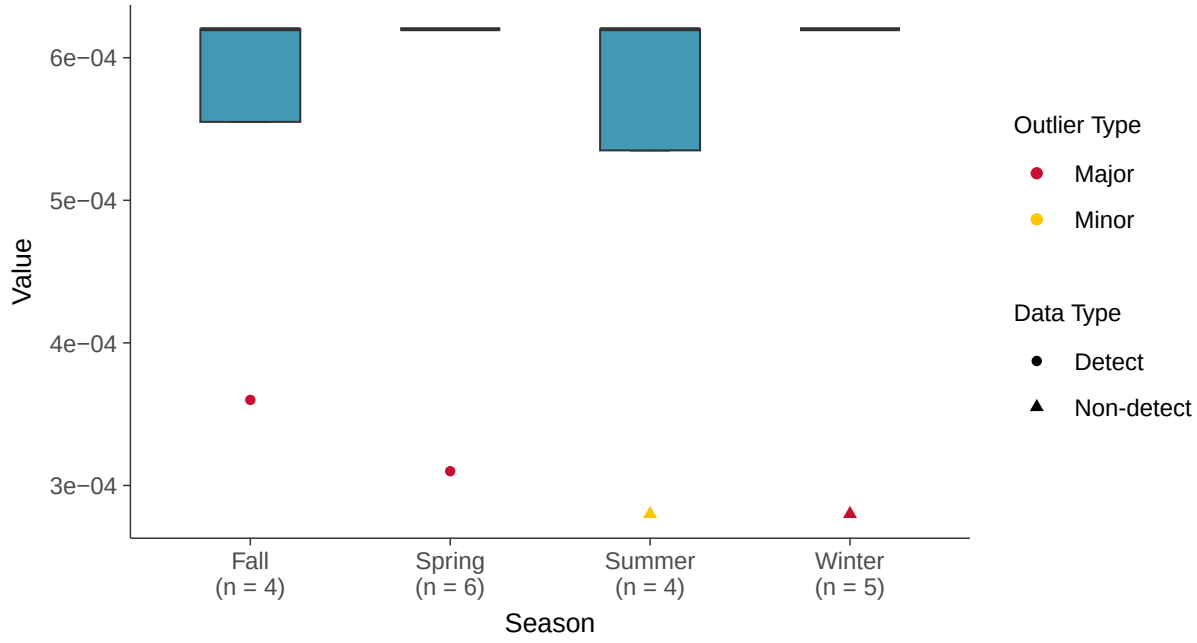


Boxplot

Vanadium, MW-18 (mg/L)

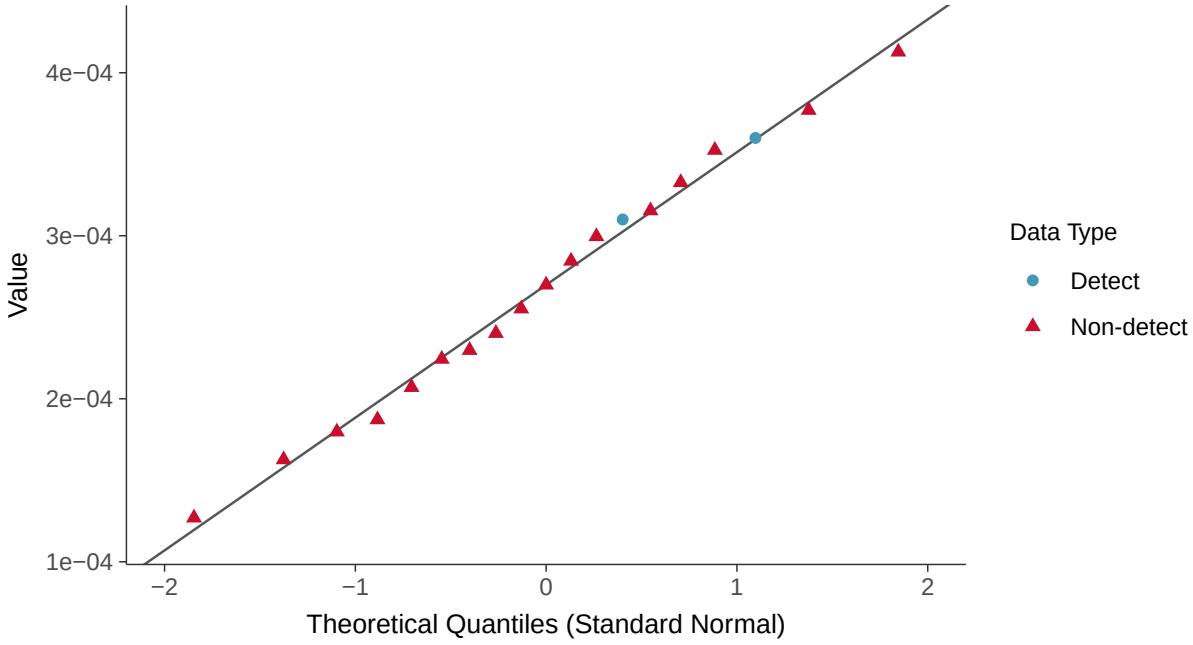
Boxplot by Season

Vanadium, MW-18 (mg/L)



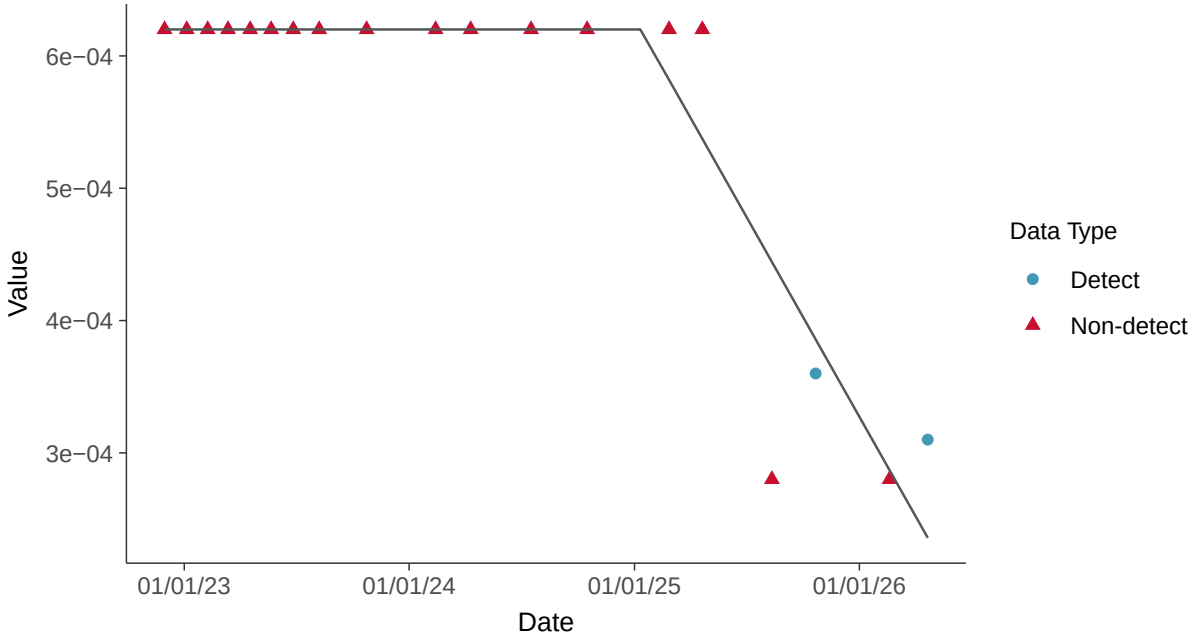
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-18 (mg/L)



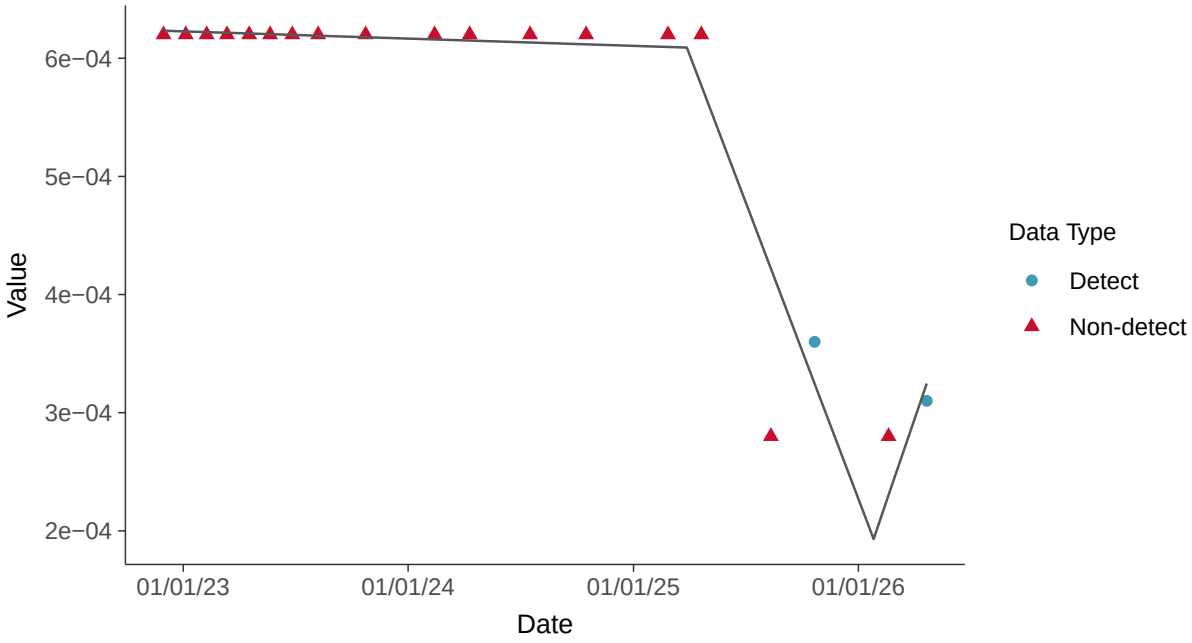
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-18 (mg/L)

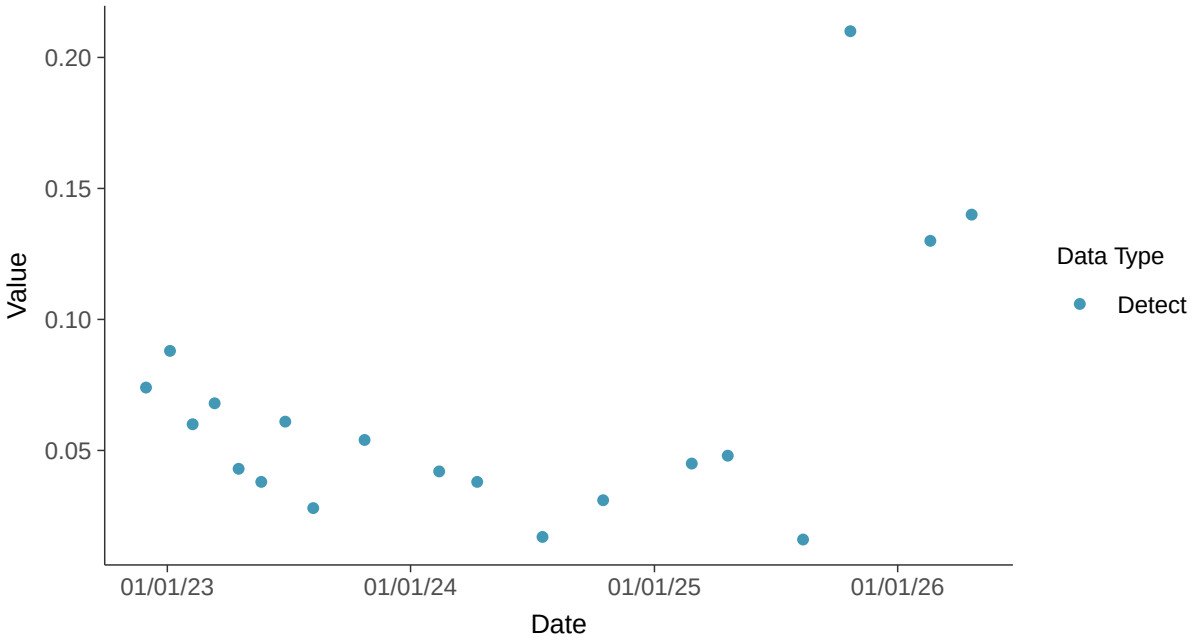


Part 115: Zinc, MW-18

ID: 28_1_5_129

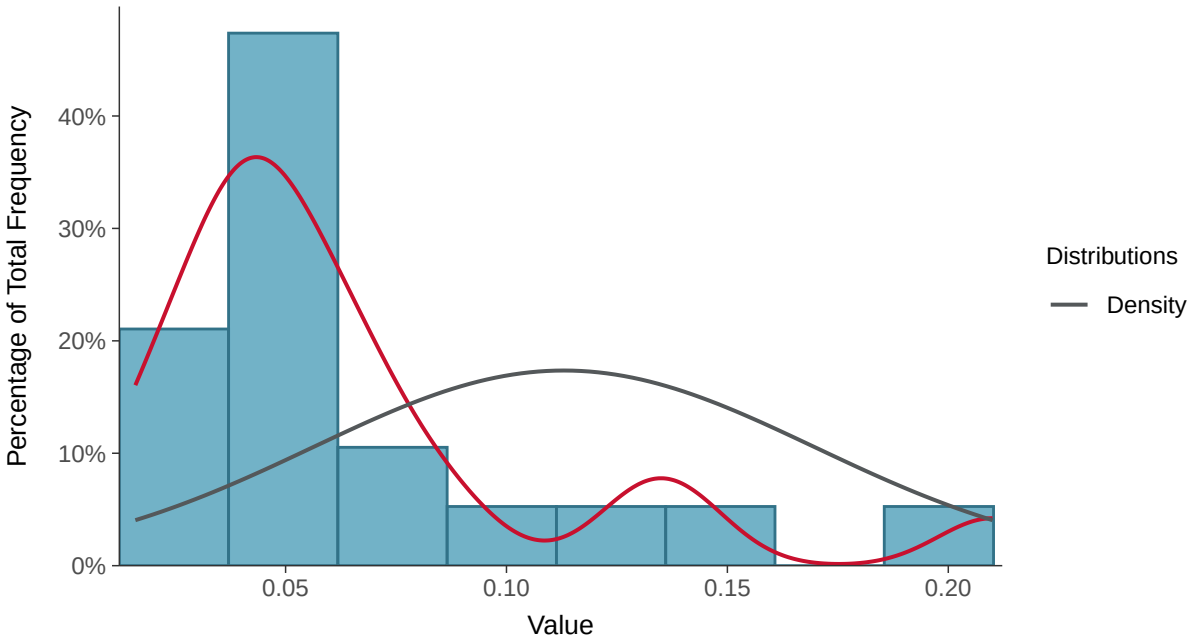
Scatter Plot

Zinc, MW-18 (mg/L)



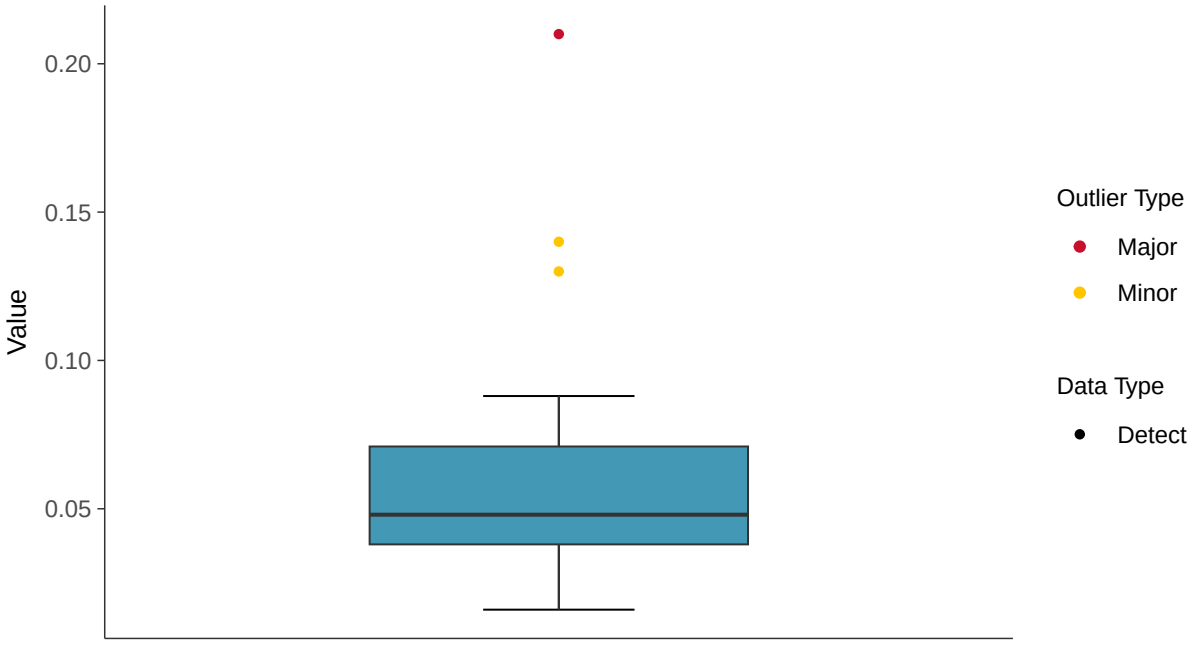
Histogram

Zinc, MW-18 (mg/L)



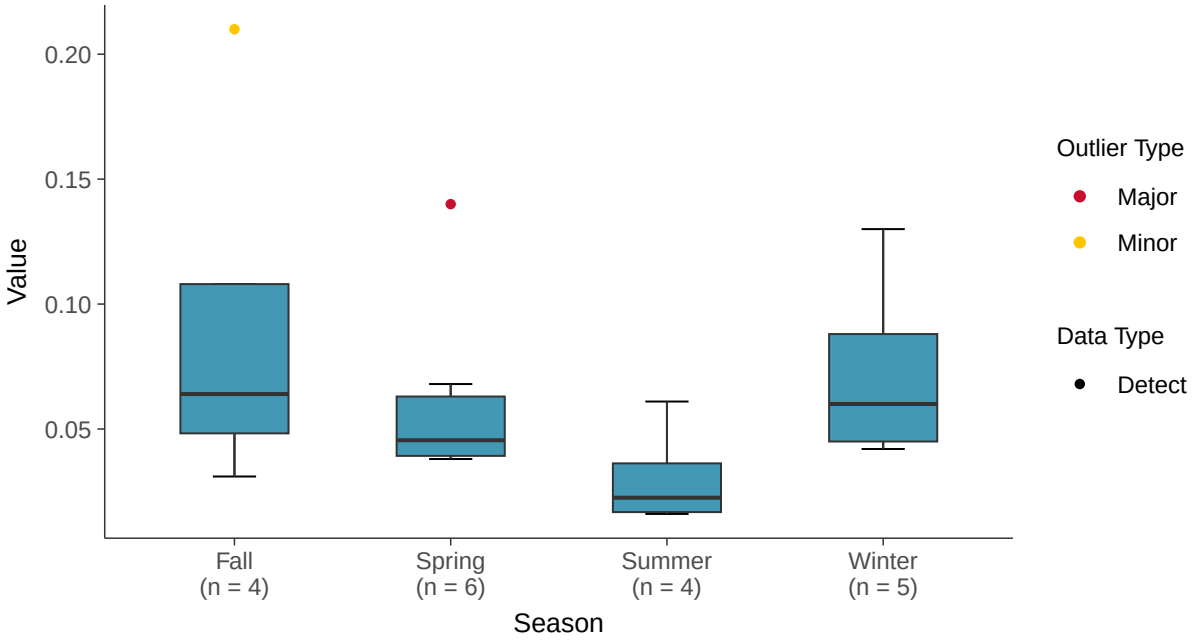
Boxplot

Zinc, MW-18 (mg/L)



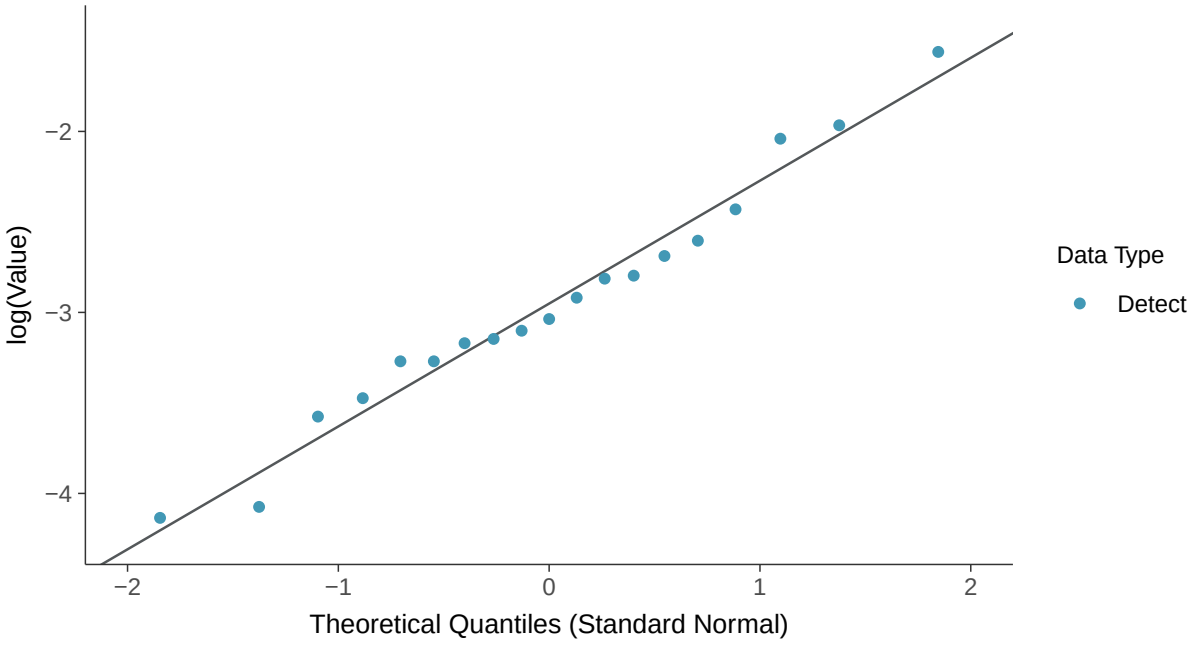
Boxplot by Season

Zinc, MW-18 (mg/L)



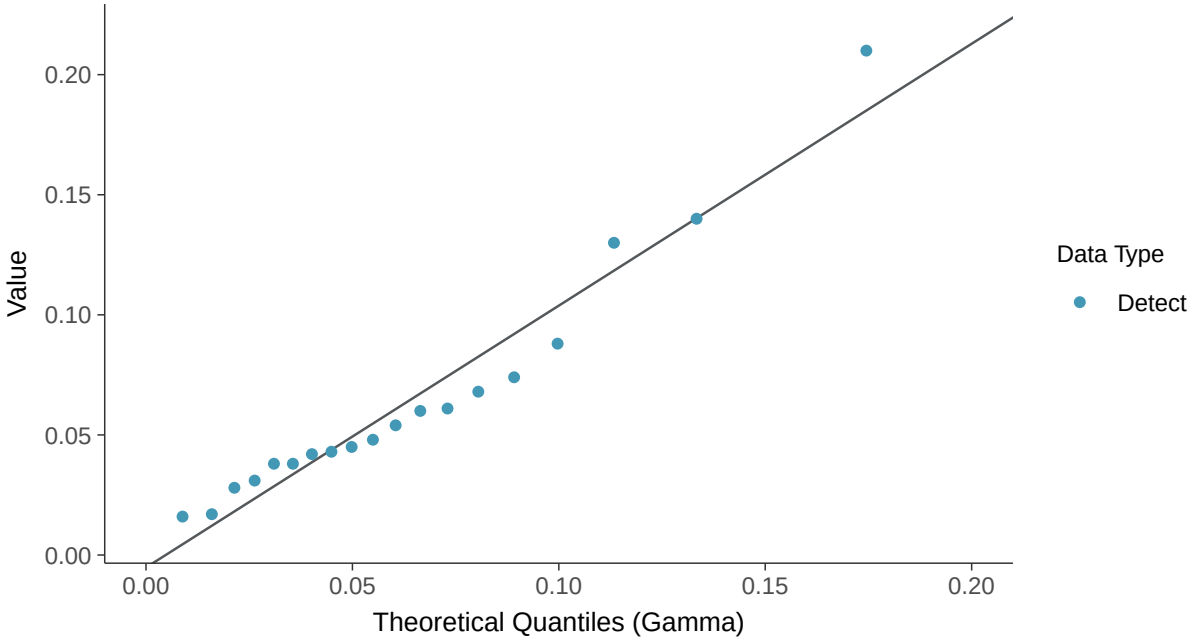
Lognormal Q-Q plot

Zinc, MW-18 (mg/L)



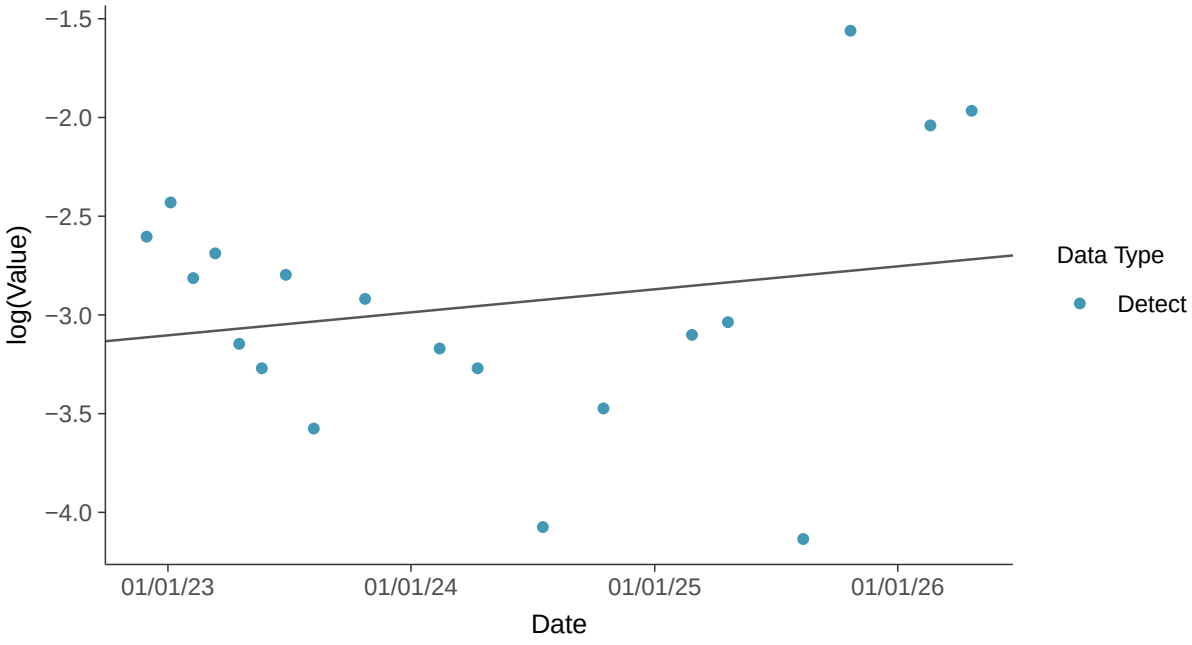
Gamma Q-Q plot

Zinc, MW-18 (mg/L)



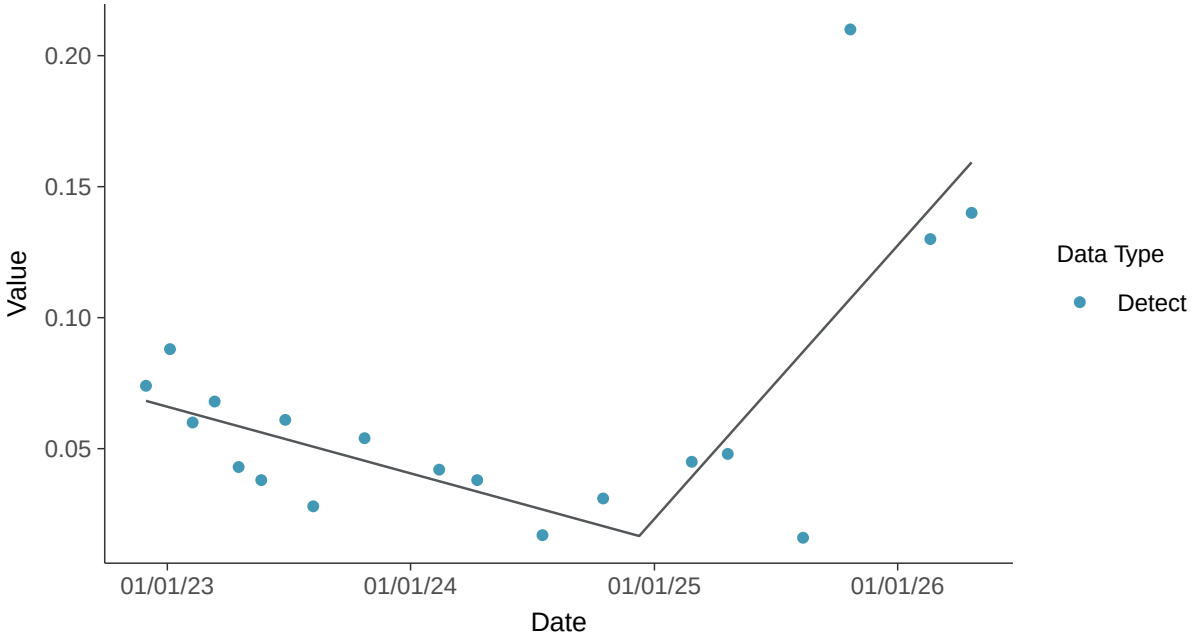
Trend Regression: Lognormal MLE

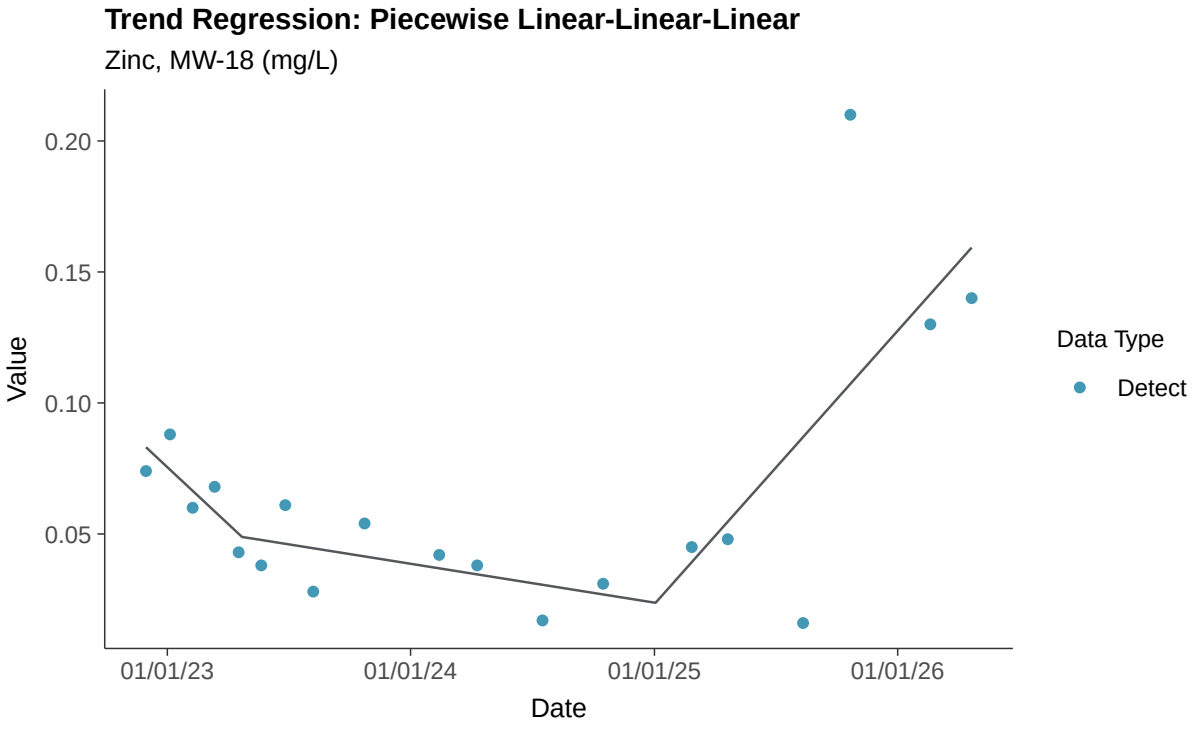
Zinc, MW-18 (mg/L)



Trend Regression: Piecewise Linear-Linear

Zinc, MW-18 (mg/L)



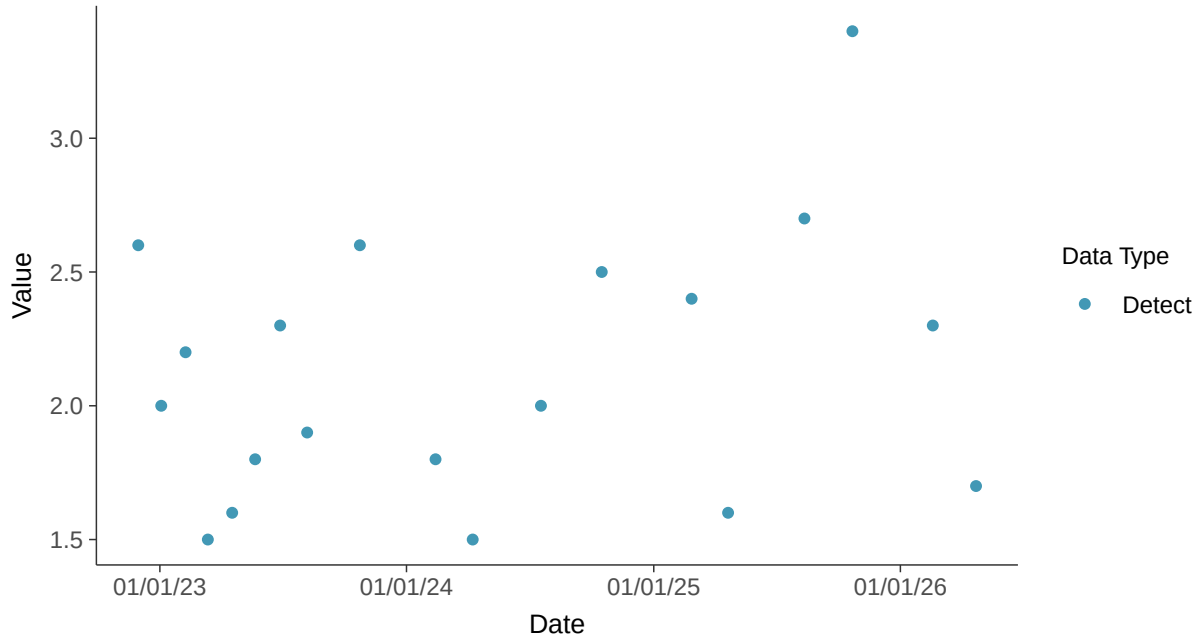

Trend Regression: Piecewise Linear-Linear-Linear
Zinc, MW-18 (mg/L)
0.20
0.15
0.10
0.05
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Boron, MW-19

ID: 29_1_3_105

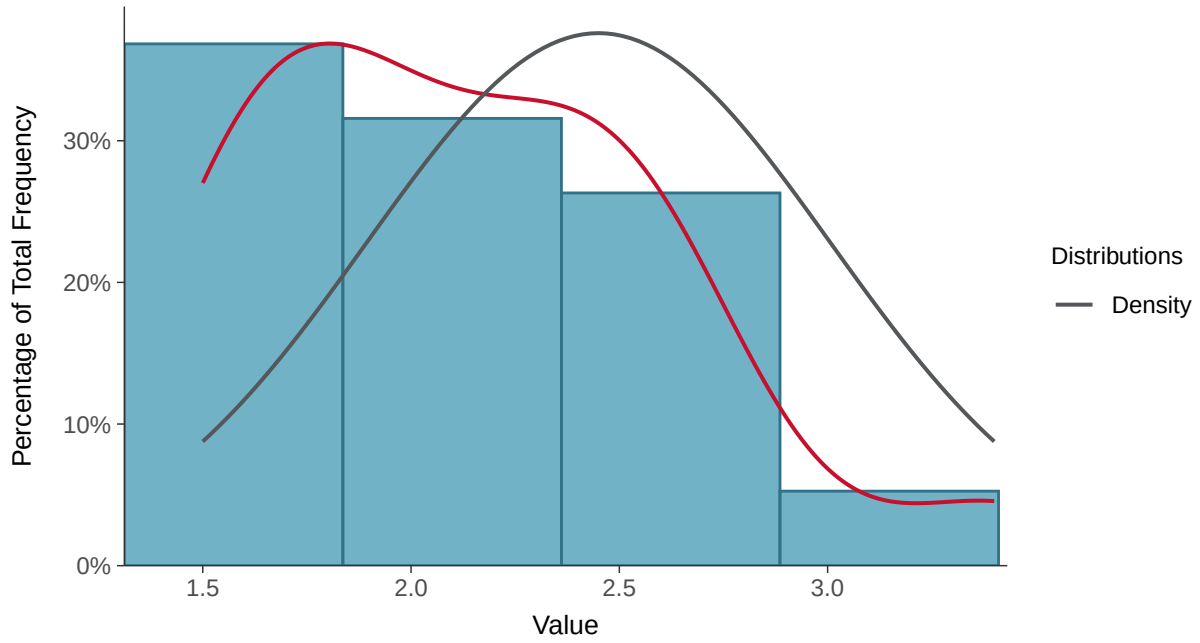
Scatter Plot

Boron, MW-19 (mg/L)



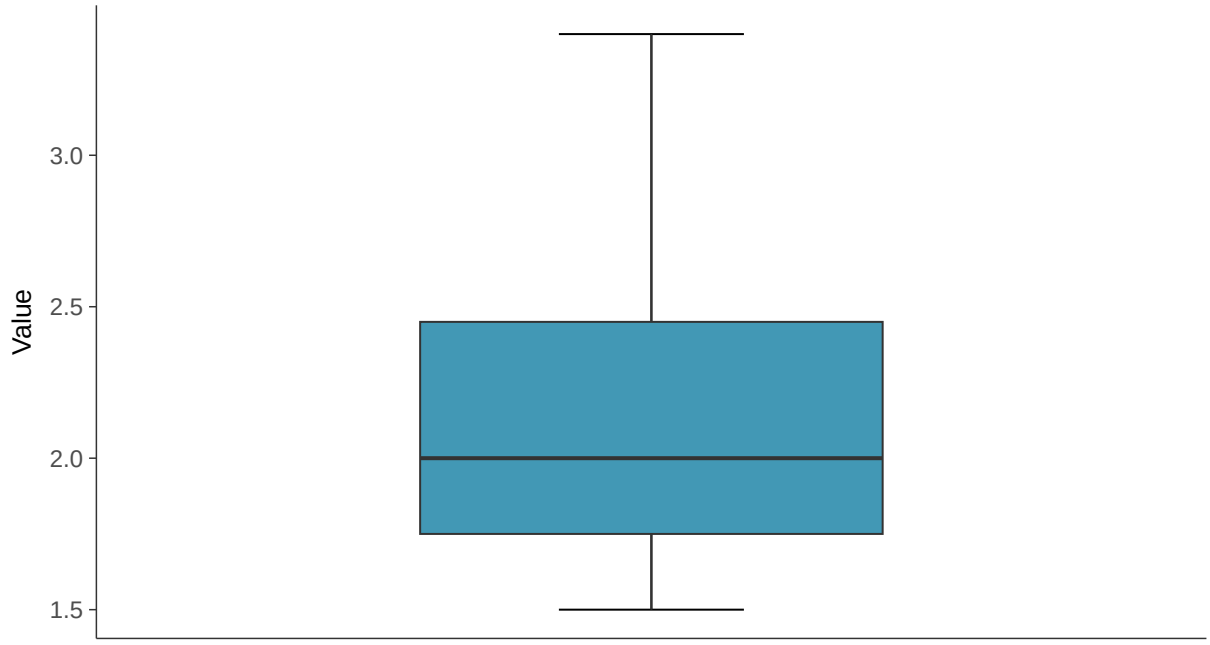
Histogram

Boron, MW-19 (mg/L)



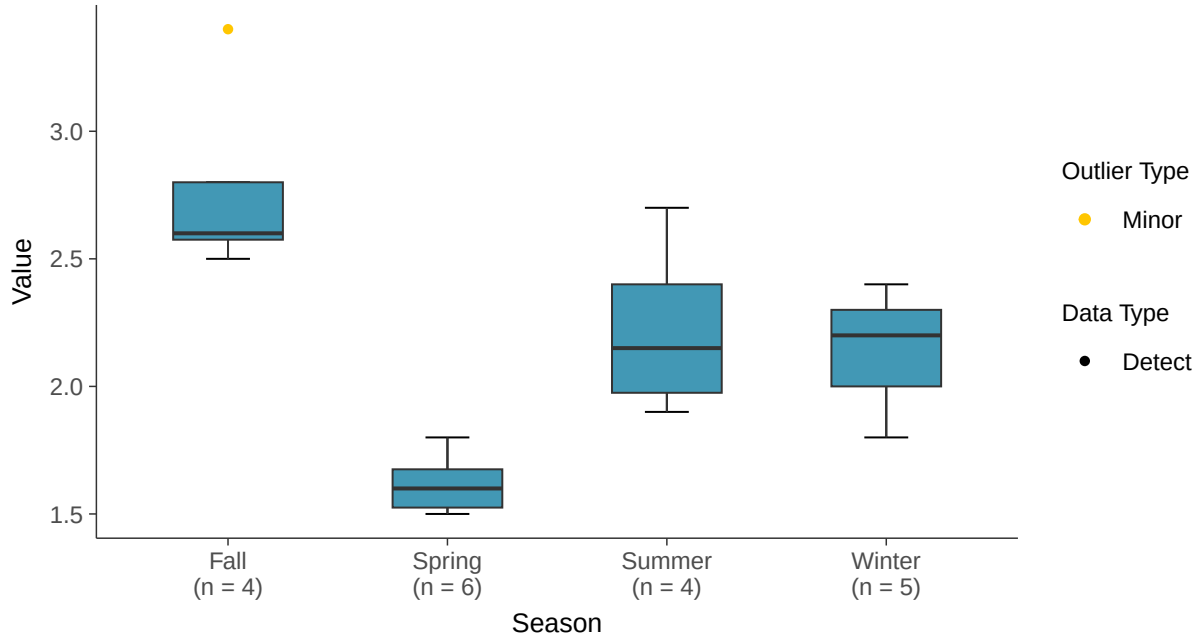
Boxplot

Boron, MW-19 (mg/L)



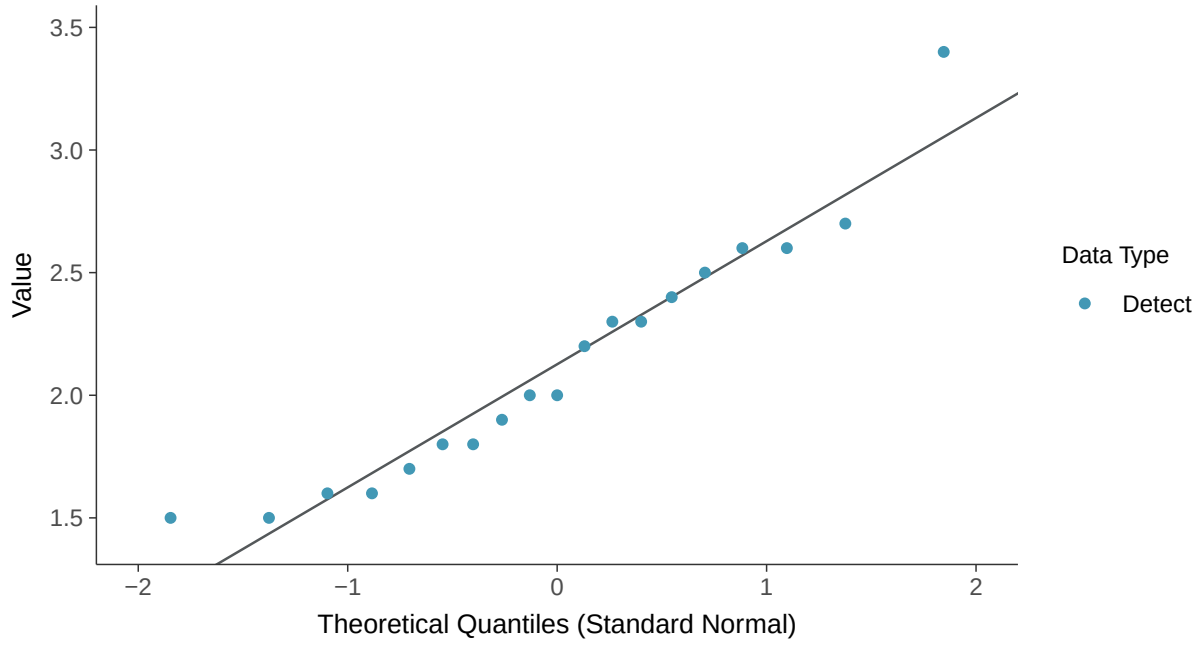
Boxplot by Season

Boron, MW-19 (mg/L)



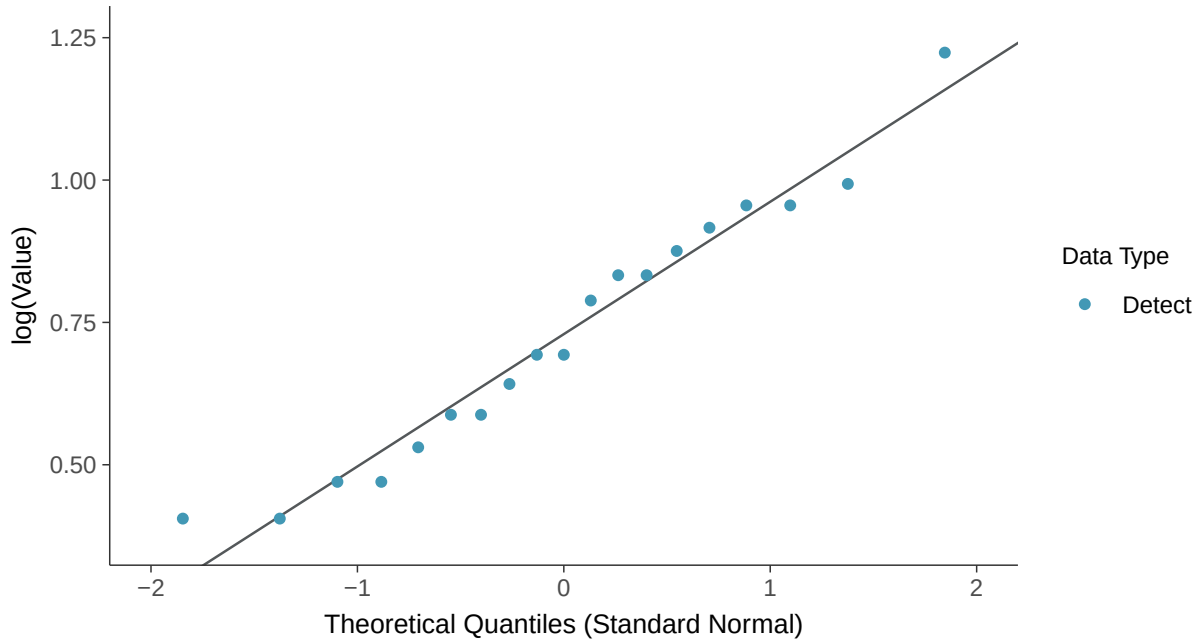
Normal Q-Q plot

Boron, MW-19 (mg/L)



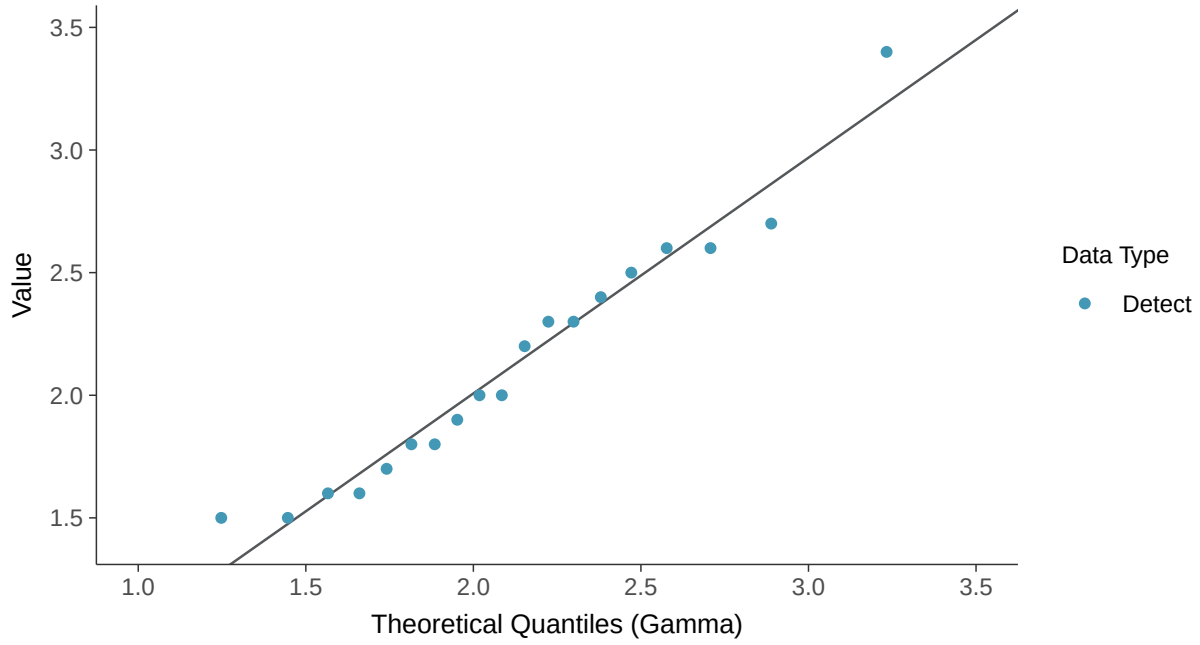
Lognormal Q-Q plot

Boron, MW-19 (mg/L)



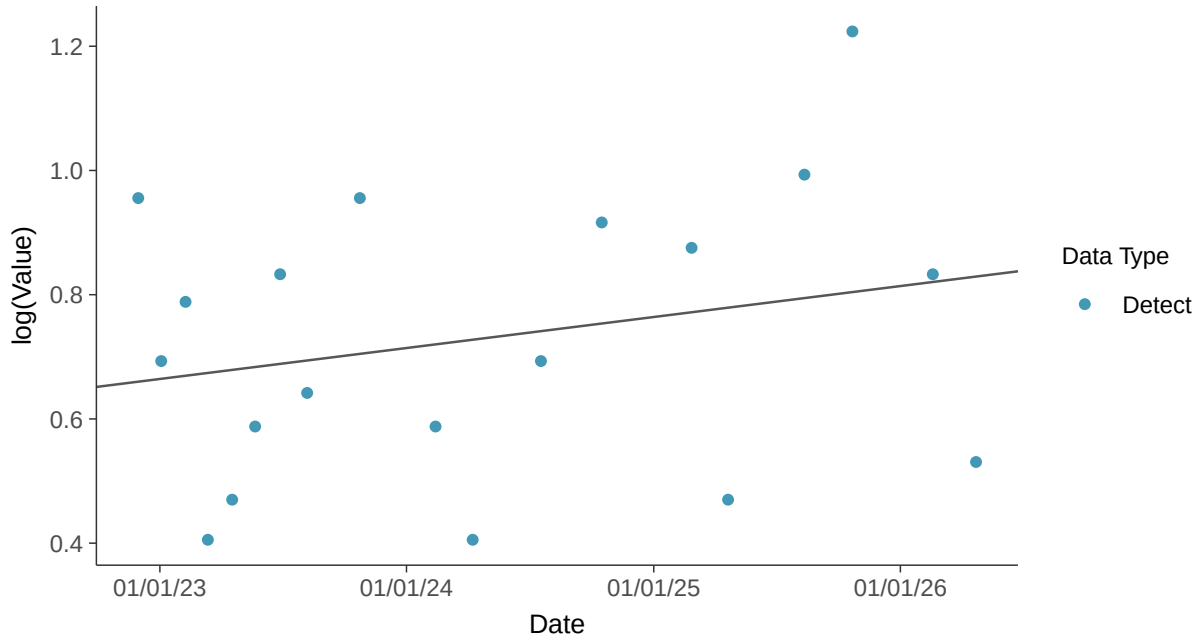
Gamma Q-Q plot

Boron, MW-19 (mg/L)



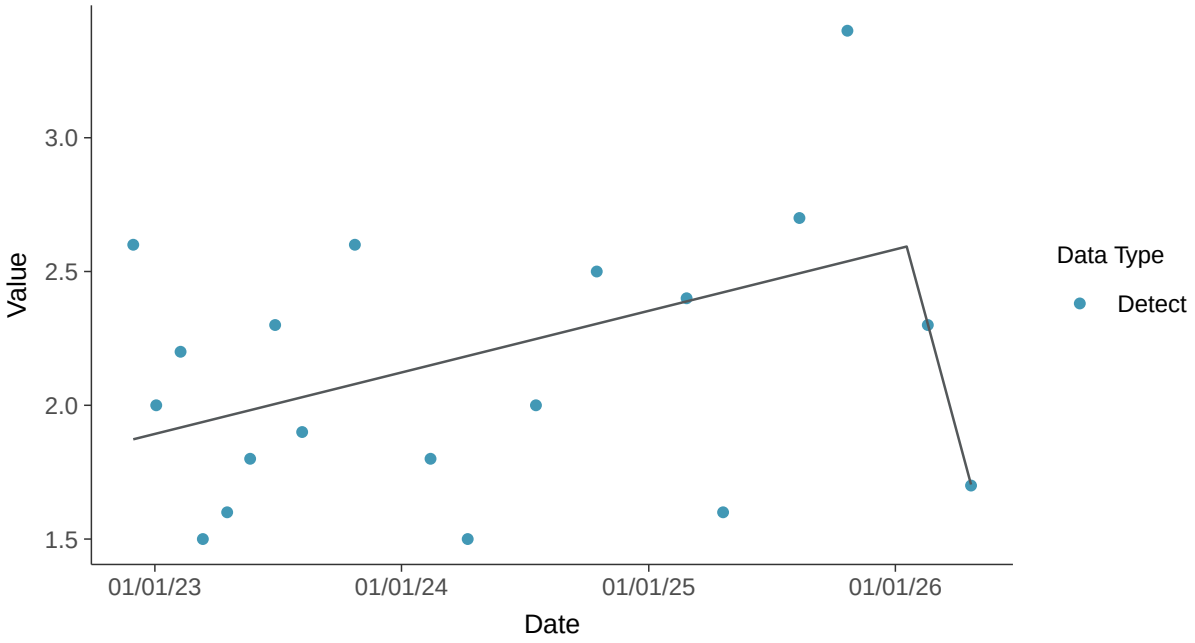
Trend Regression: Lognormal MLE

Boron, MW-19 (mg/L)



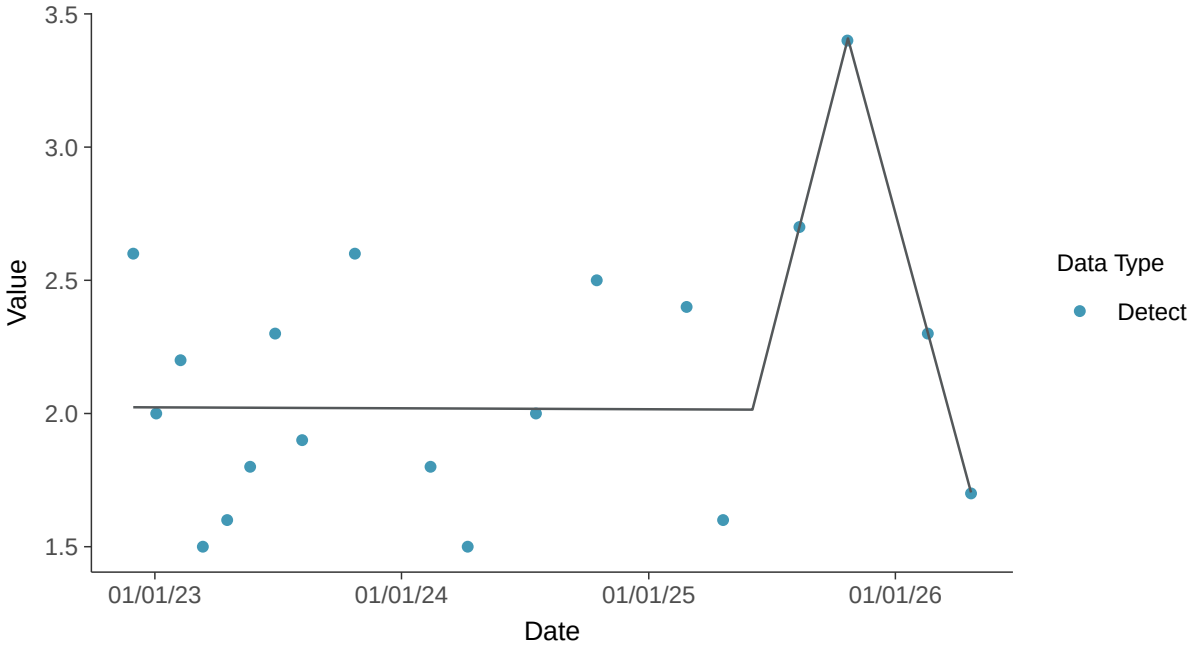
Trend Regression: Piecewise Linear-Linear

Boron, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-19 (mg/L)

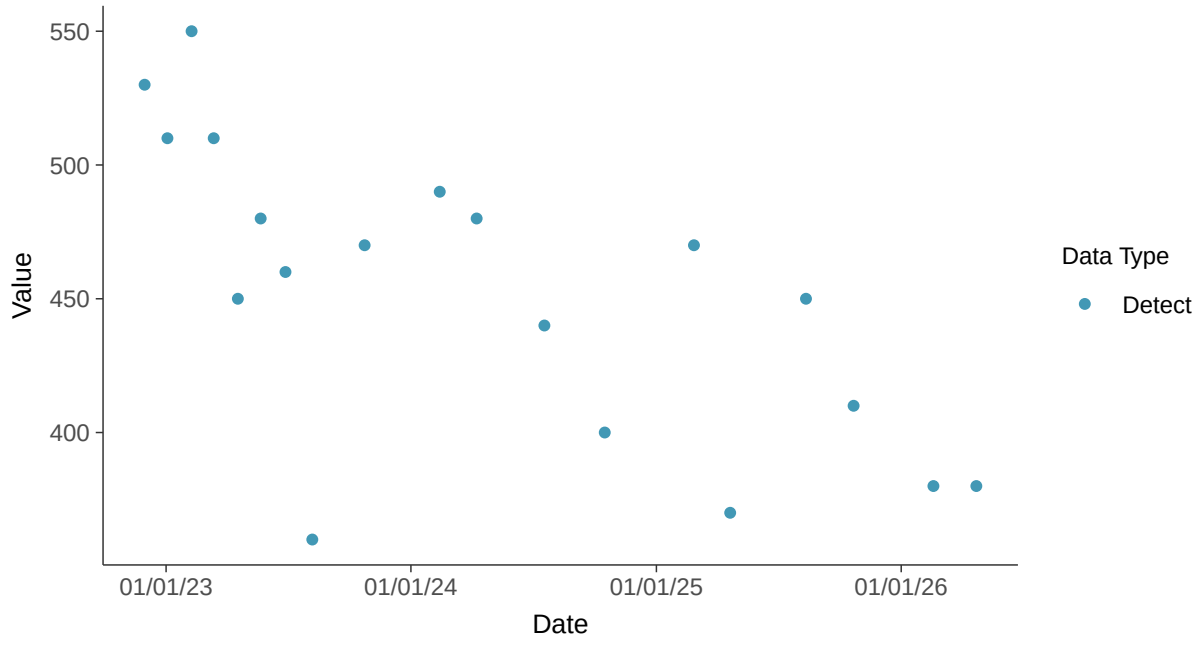


Appendix III: Calcium, MW-19

ID: 29_1_3_107

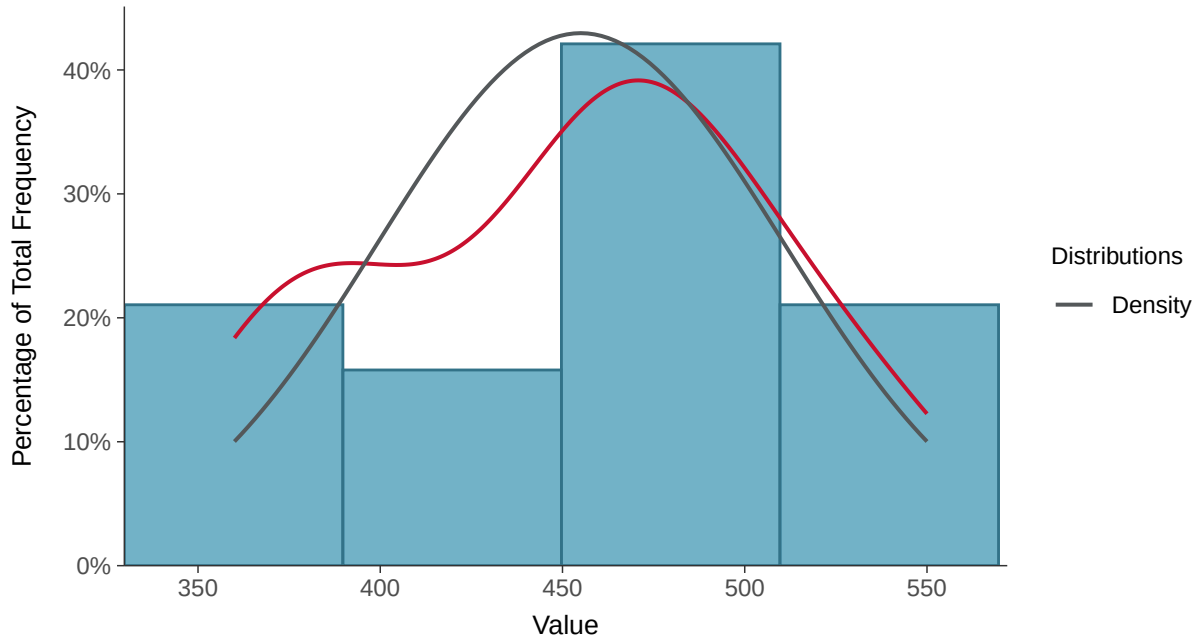
Scatter Plot

Calcium, MW-19 (mg/L)



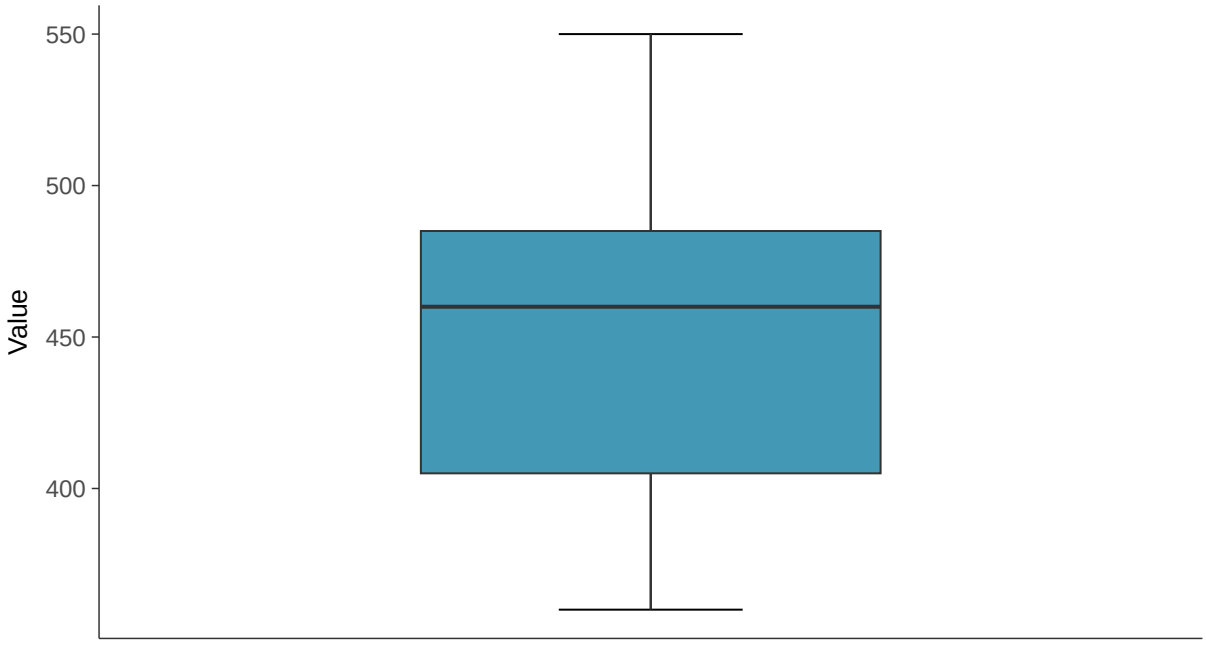
Histogram

Calcium, MW-19 (mg/L)



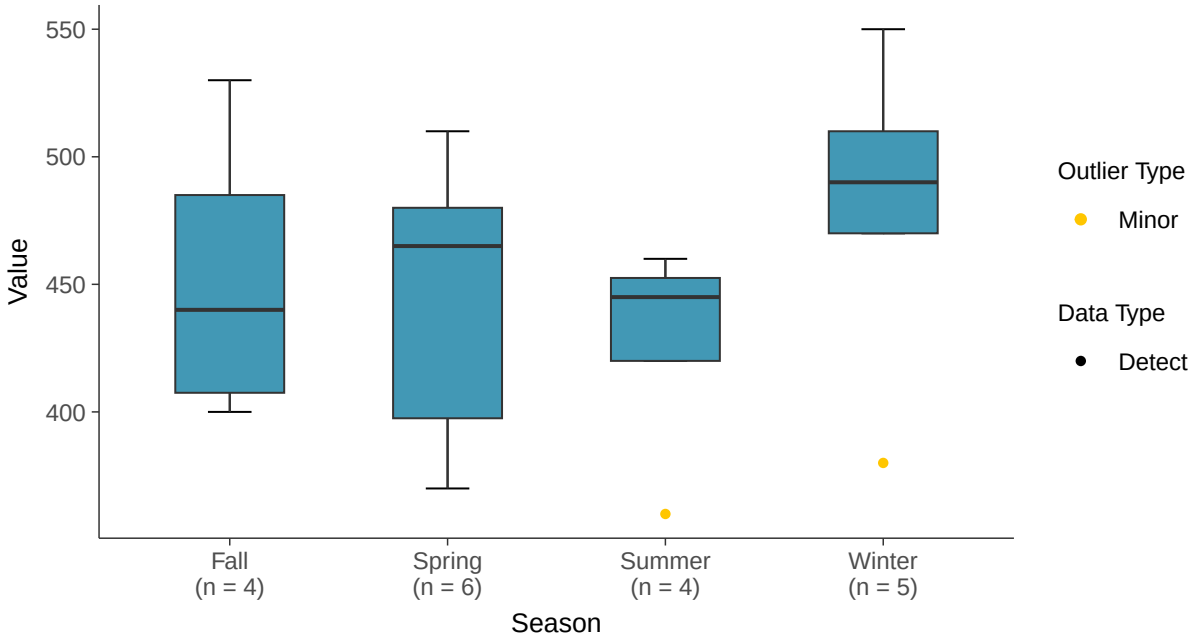
Boxplot

Calcium, MW-19 (mg/L)



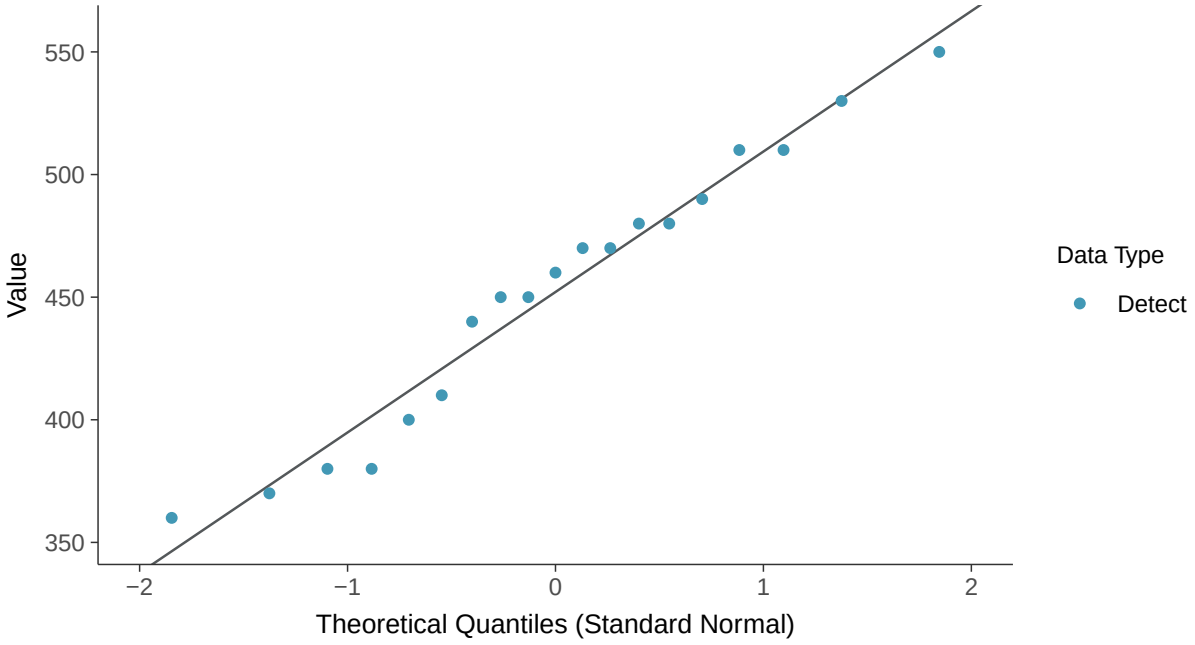
Boxplot by Season

Calcium, MW-19 (mg/L)



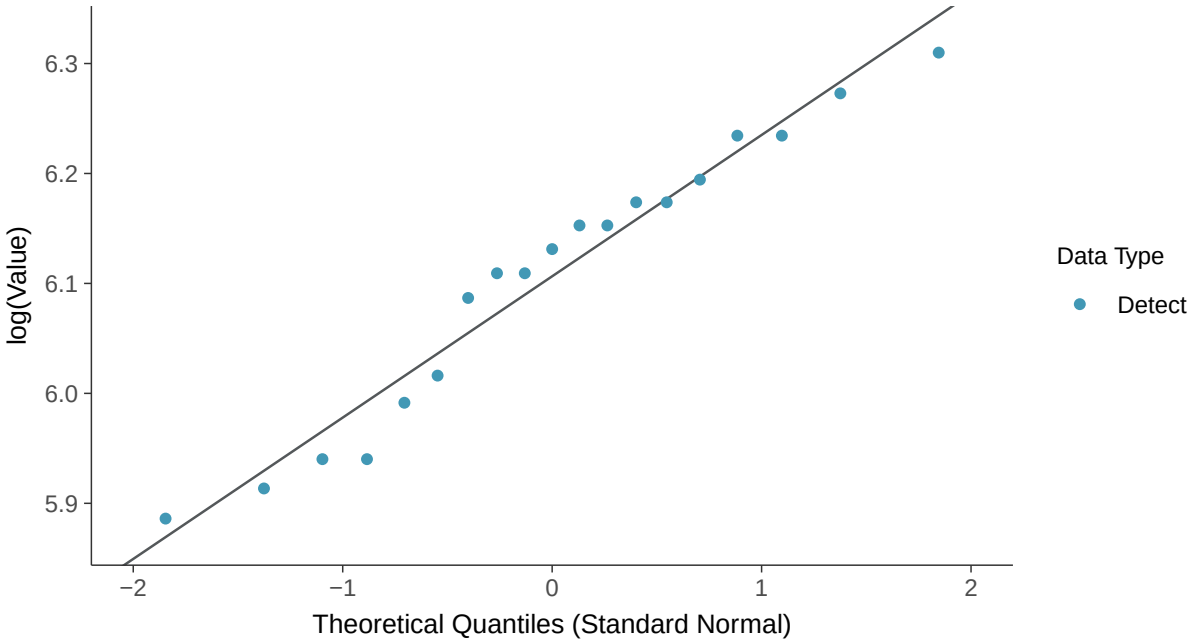
Normal Q-Q plot

Calcium, MW-19 (mg/L)



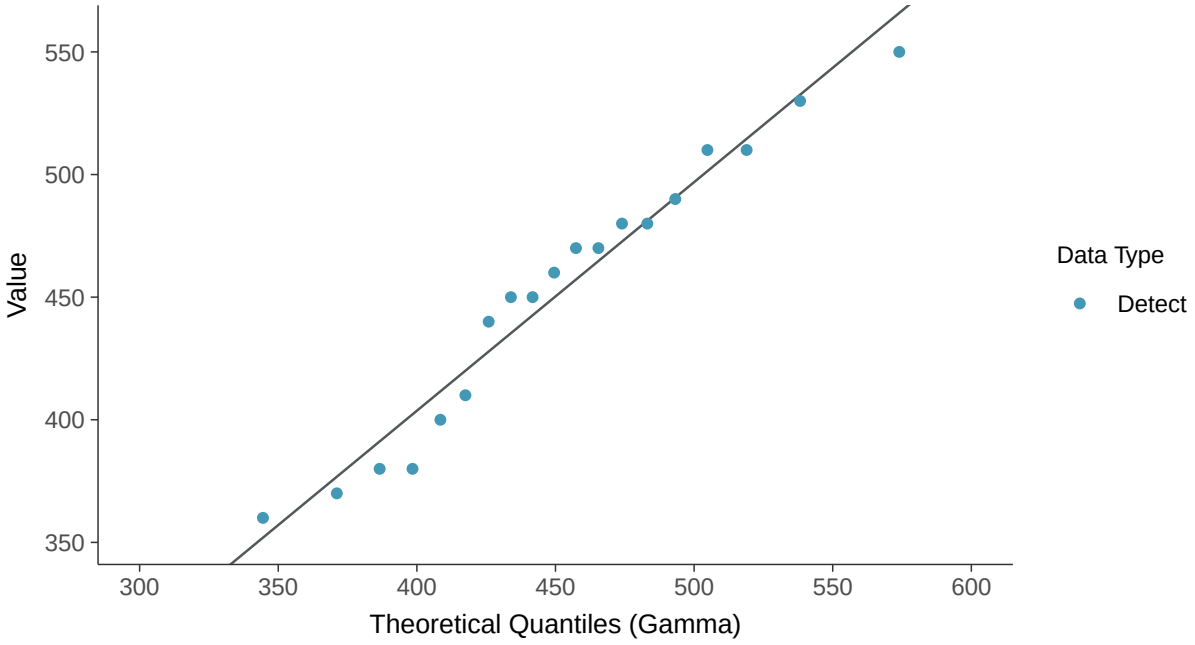
Lognormal Q-Q plot

Calcium, MW-19 (mg/L)



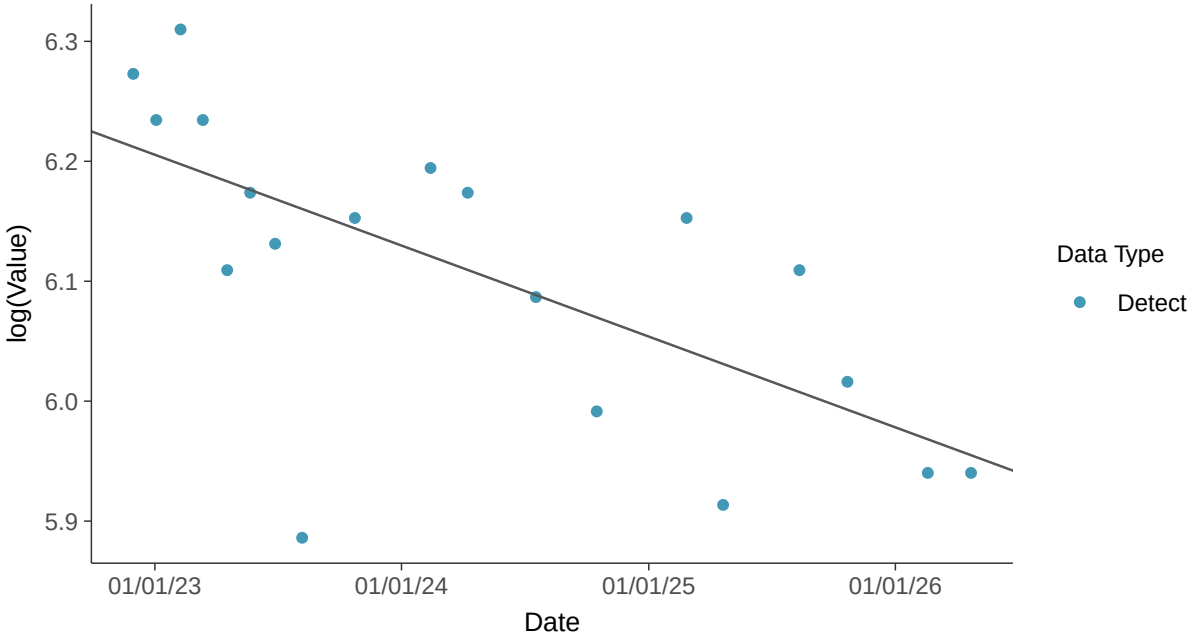
Gamma Q-Q plot

Calcium, MW-19 (mg/L)



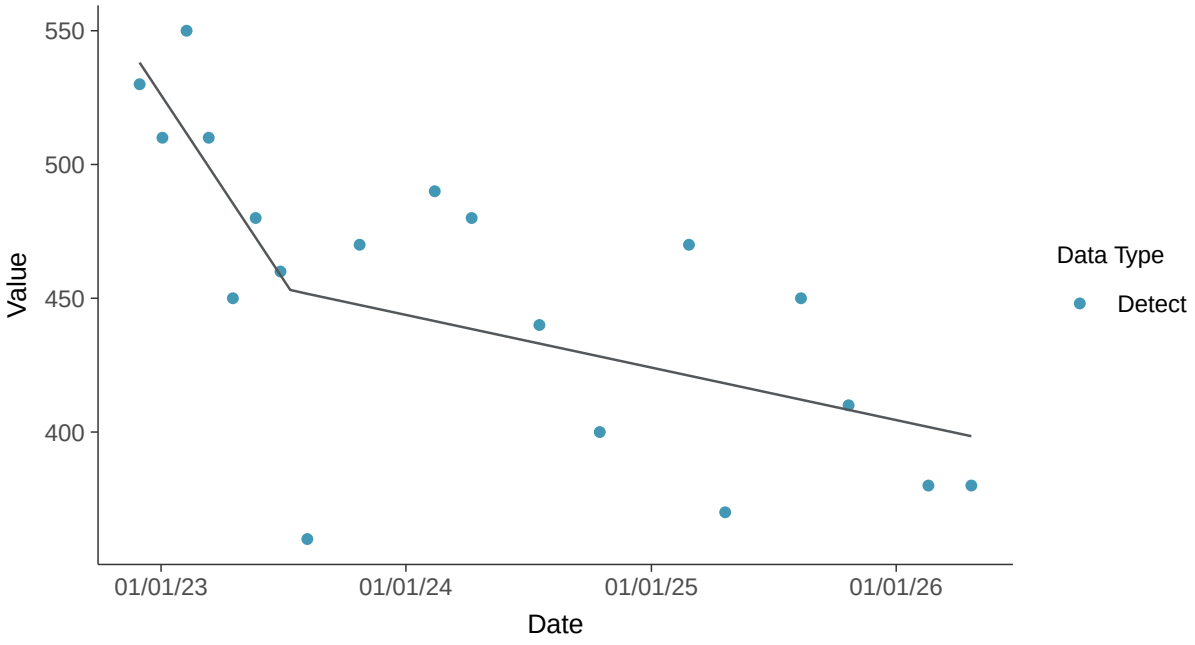
Trend Regression: Lognormal MLE

Calcium, MW-19 (mg/L)



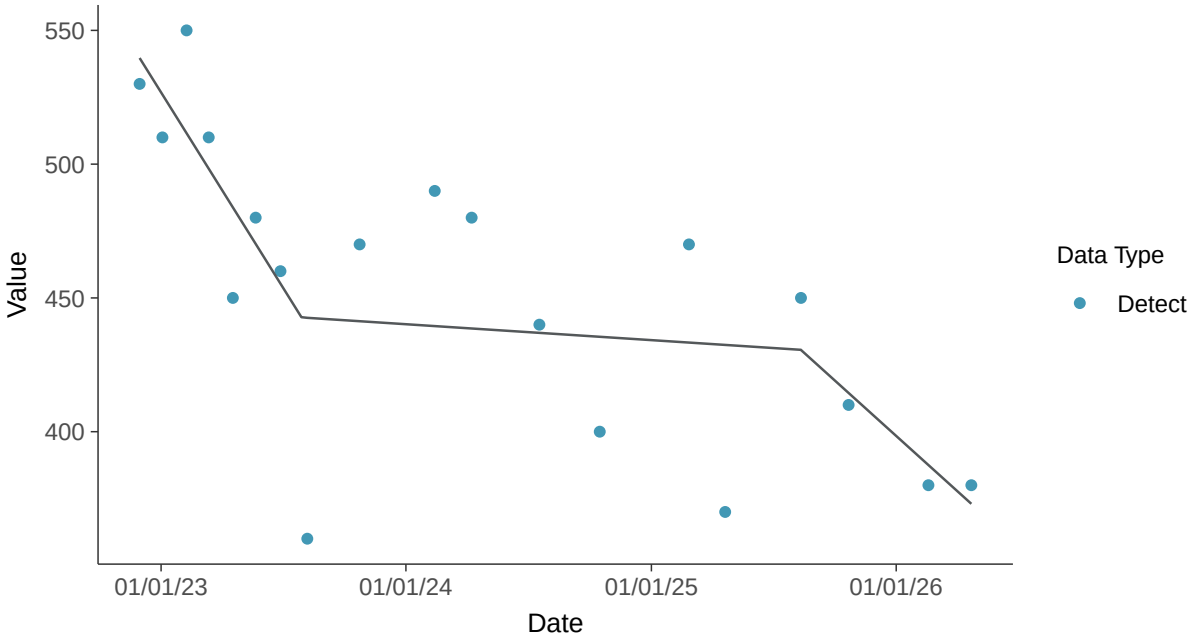
Trend Regression: Piecewise Linear-Linear

Calcium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-19 (mg/L)

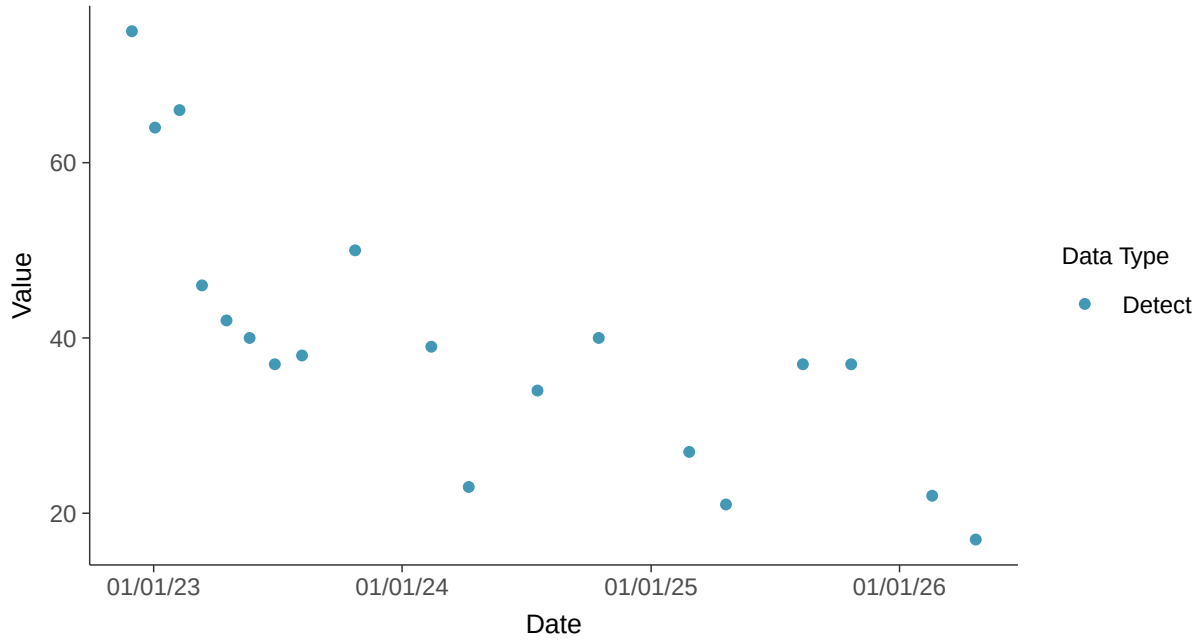


Appendix III: Chloride (as Cl), MW-19

ID: 29_1_3_108

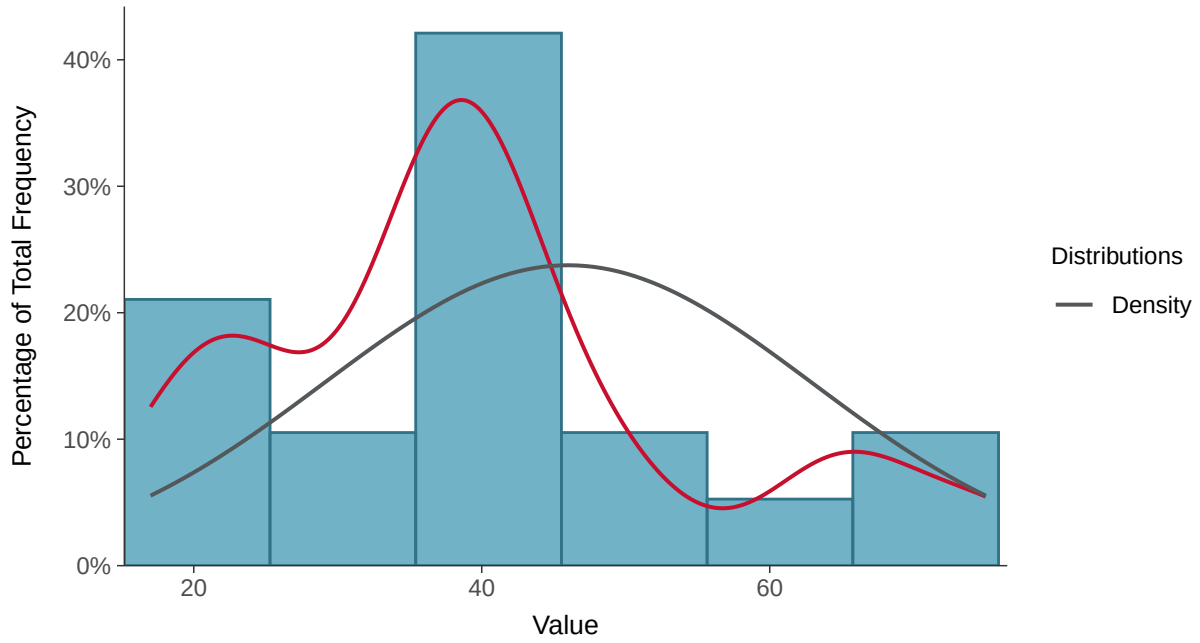
Scatter Plot

Chloride (as Cl), MW-19 (mg/L)



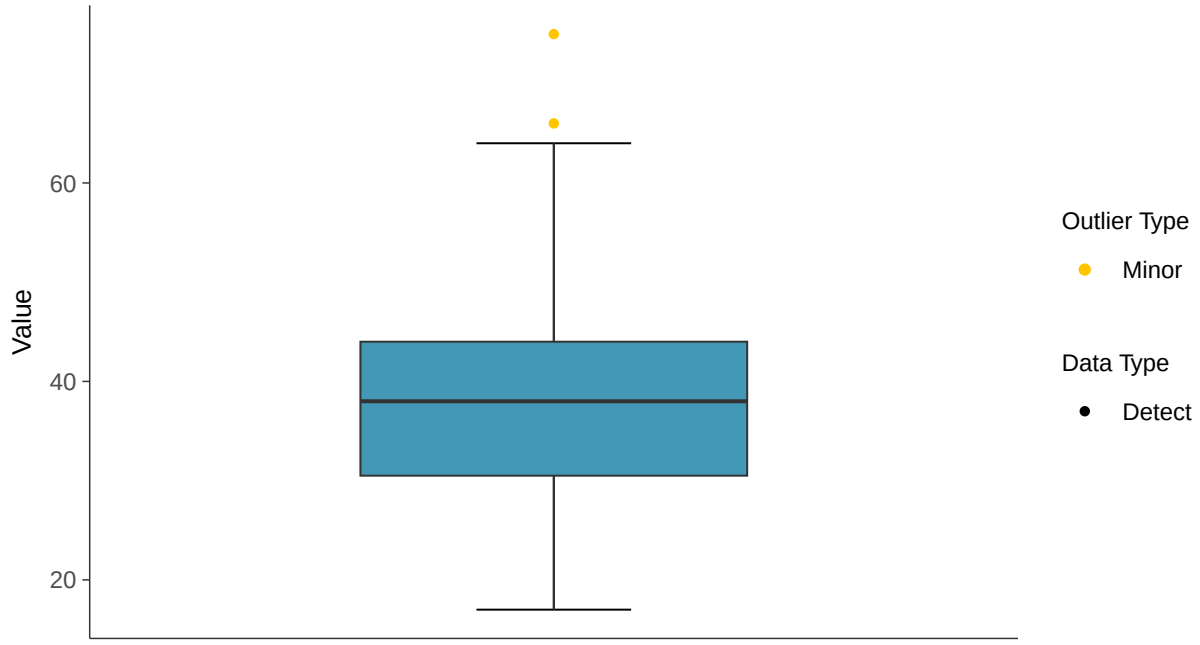
Histogram

Chloride (as Cl), MW-19 (mg/L)



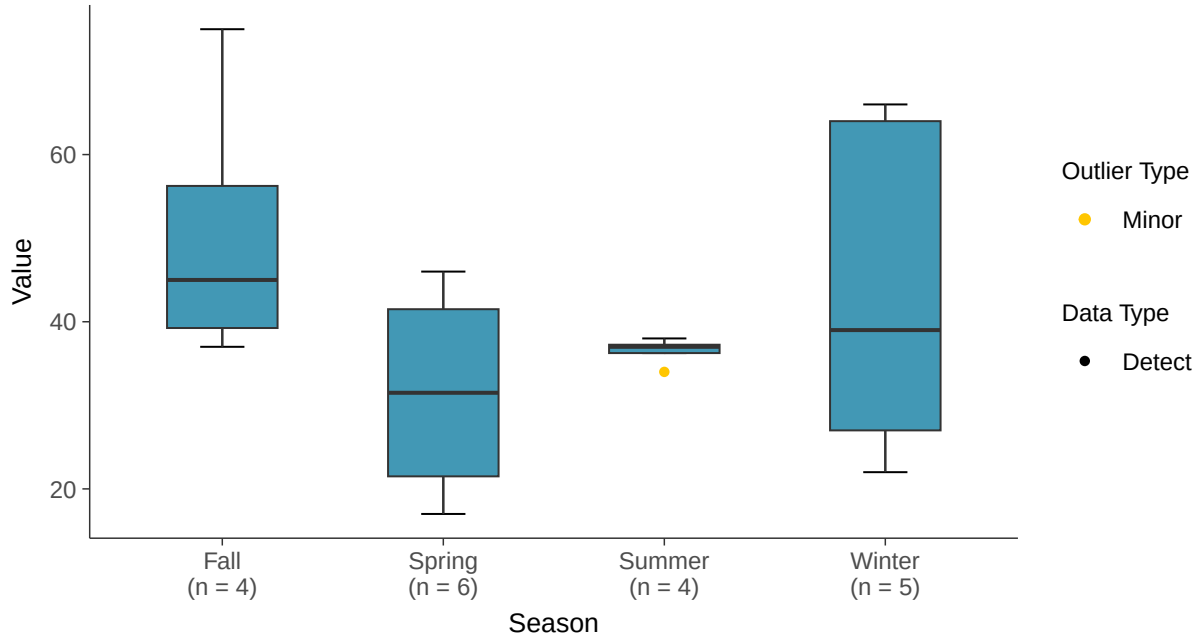
Boxplot

Chloride (as Cl), MW-19 (mg/L)



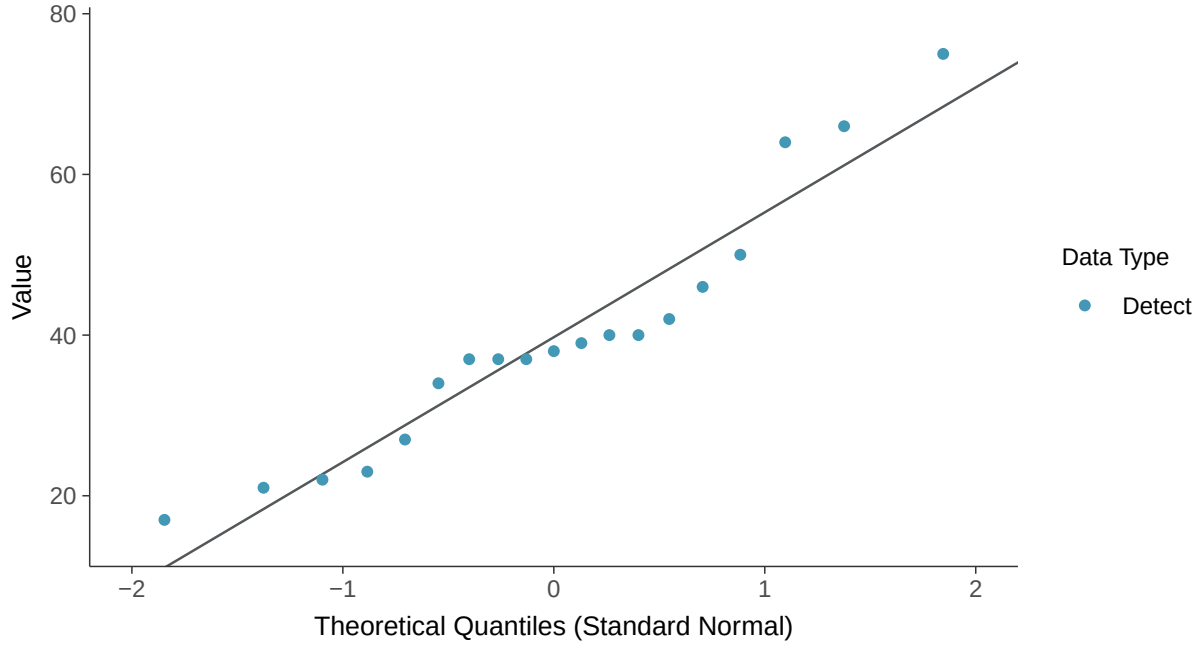
Boxplot by Season

Chloride (as Cl), MW-19 (mg/L)



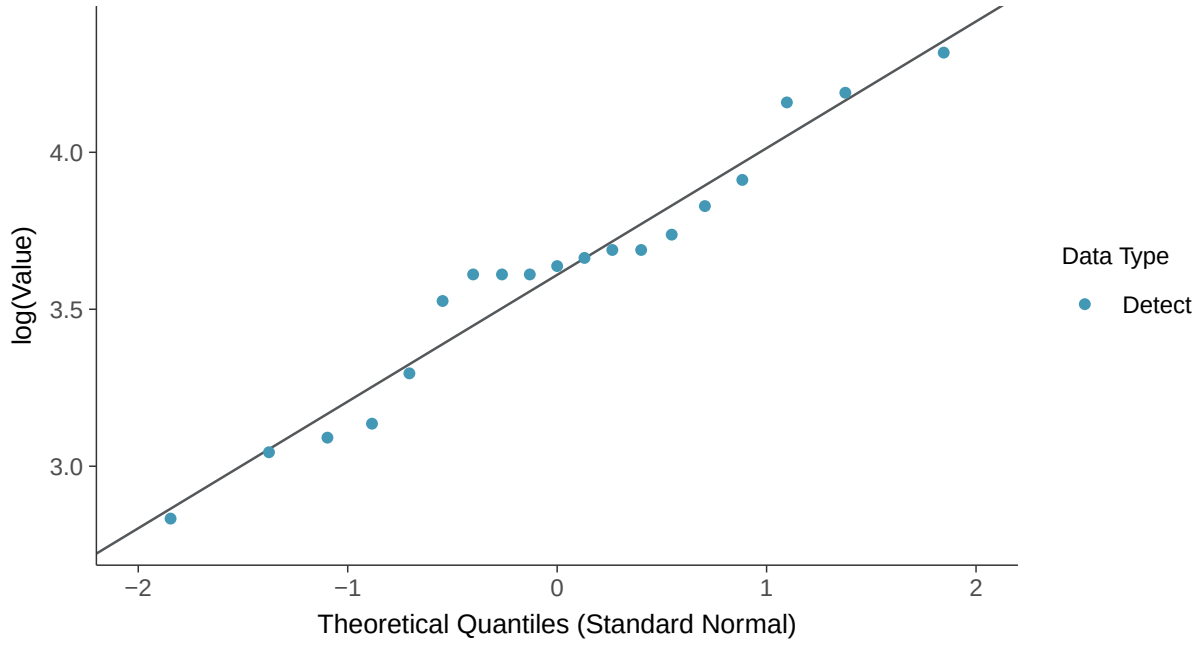
Normal Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



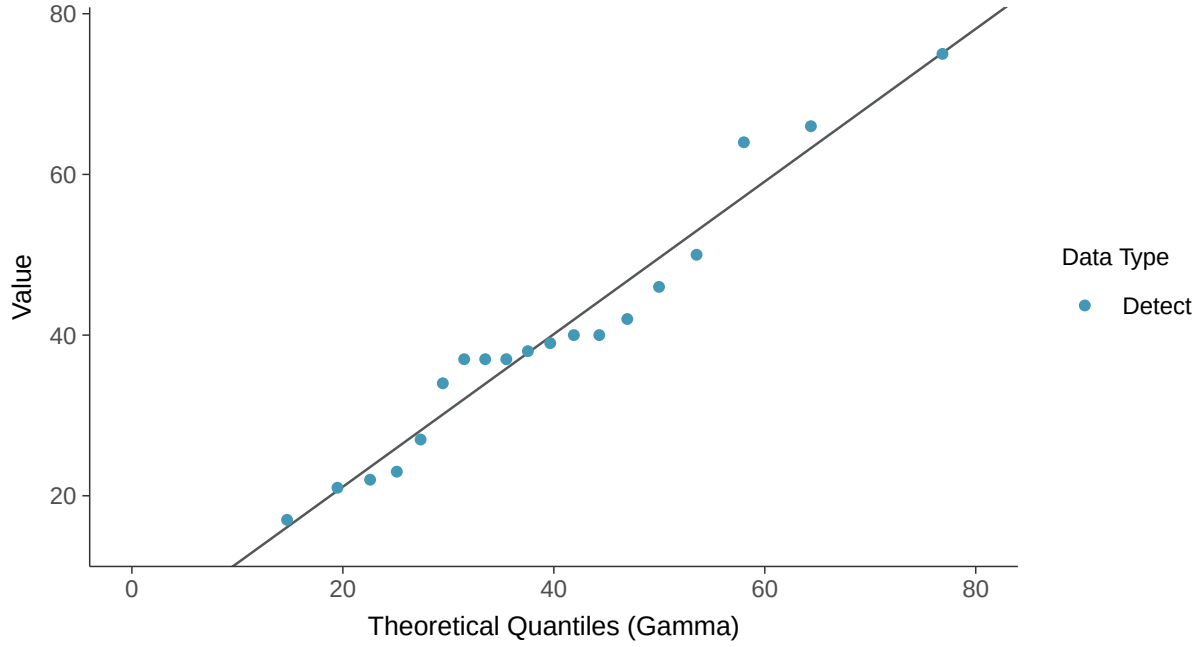
Lognormal Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



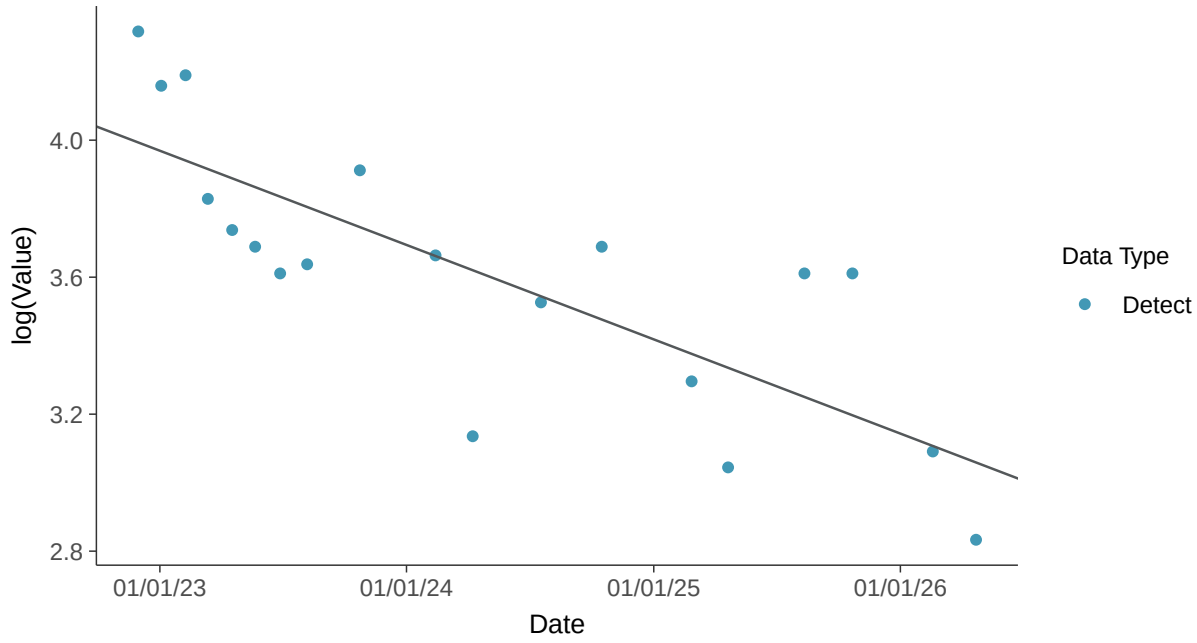
Gamma Q-Q plot

Chloride (as Cl), MW-19 (mg/L)



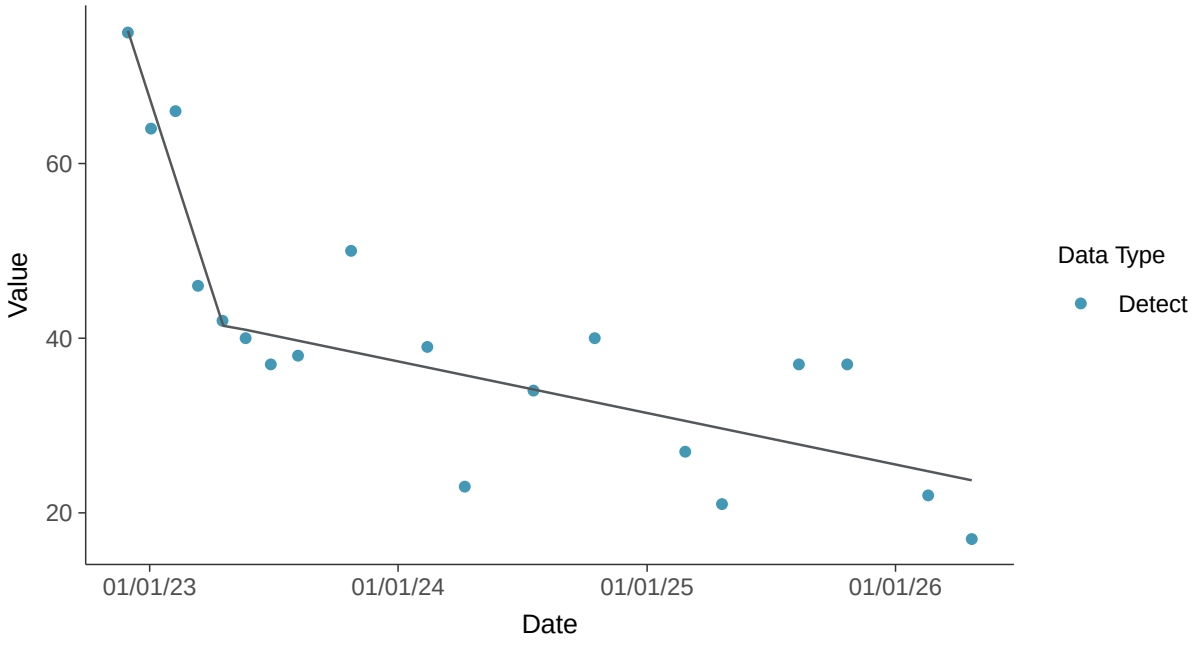
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-19 (mg/L)



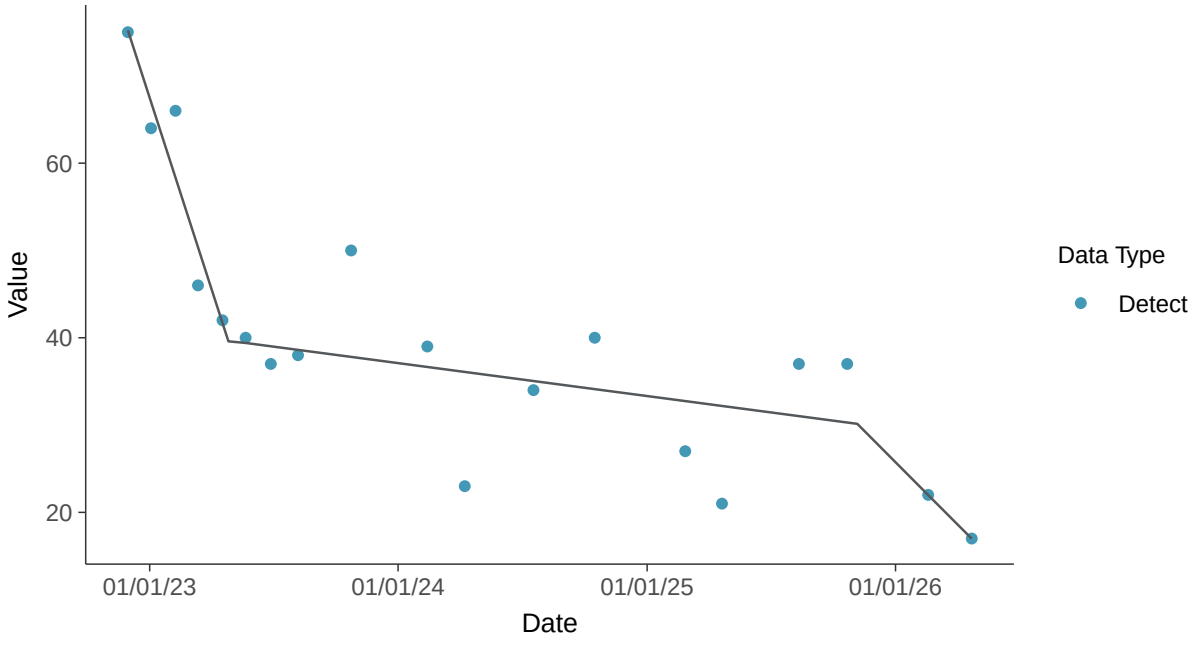
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-19 (mg/L)

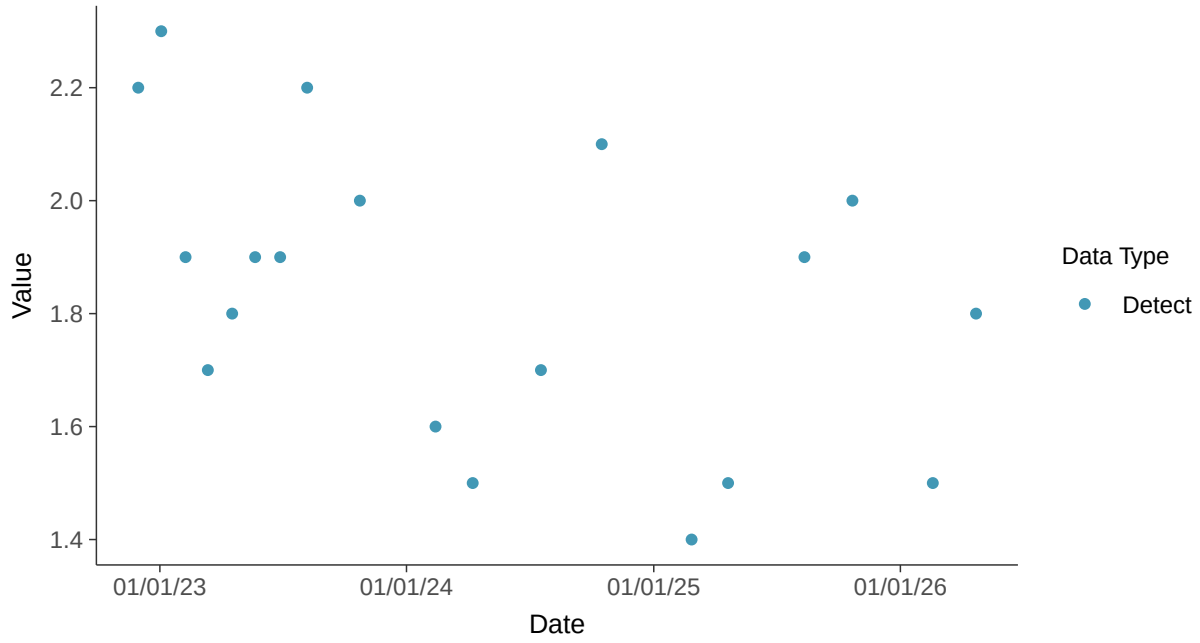


Appendix III: Fluoride, MW-19

ID: 29_1_3_112

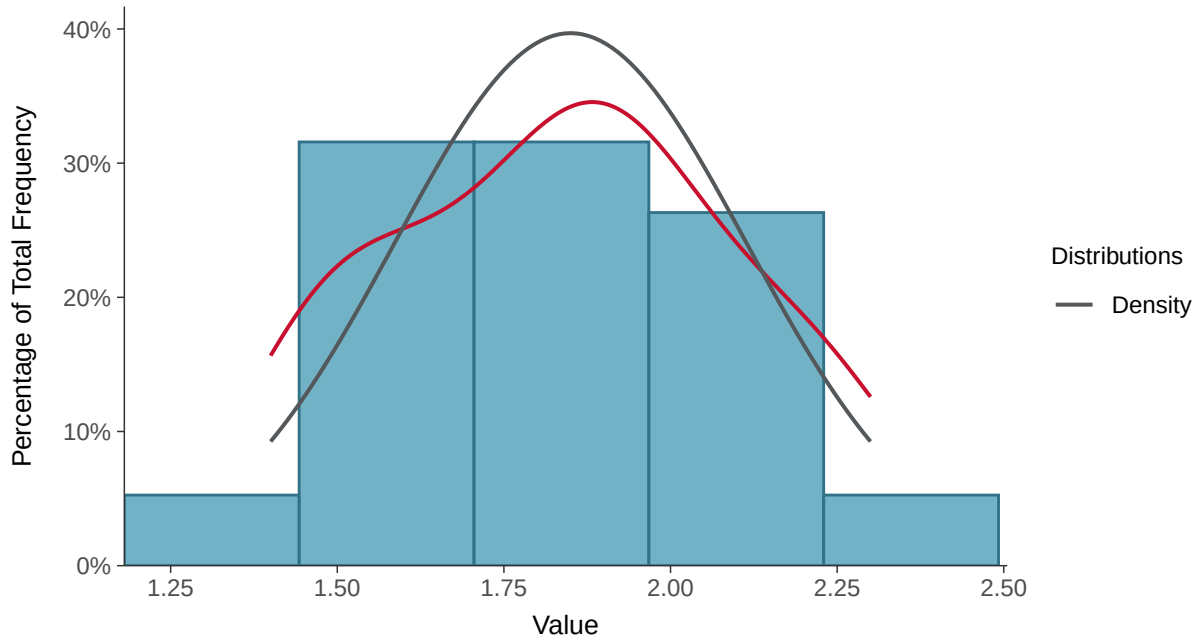
Scatter Plot

Fluoride, MW-19 (mg/L)



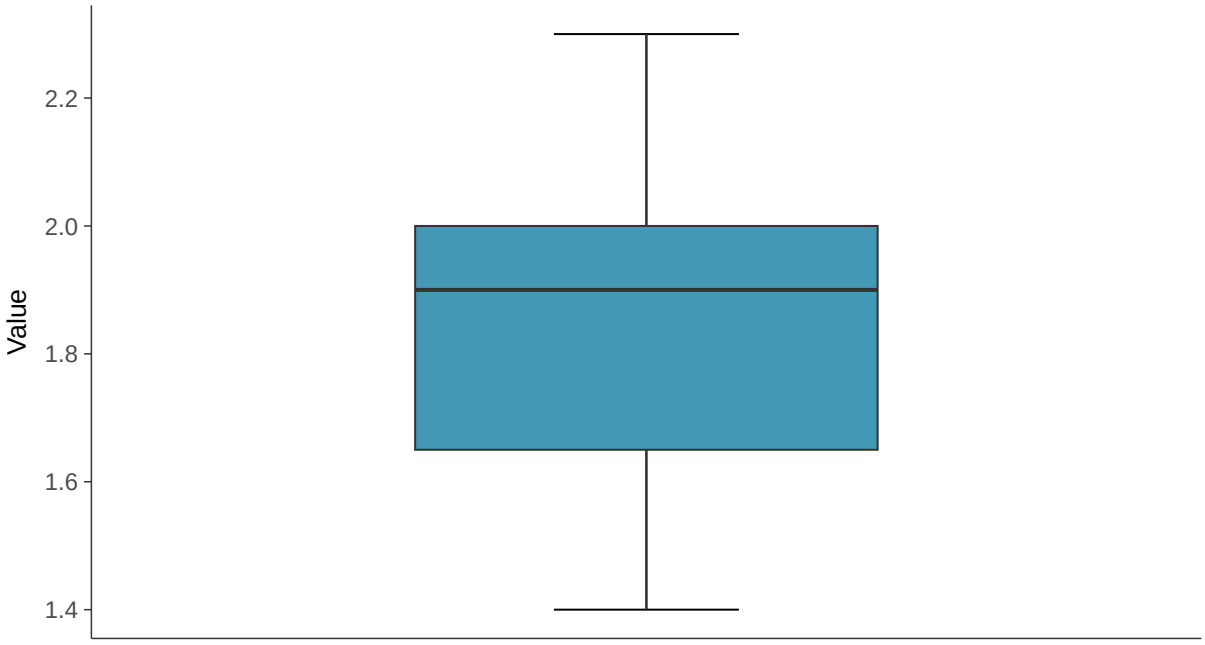
Histogram

Fluoride, MW-19 (mg/L)



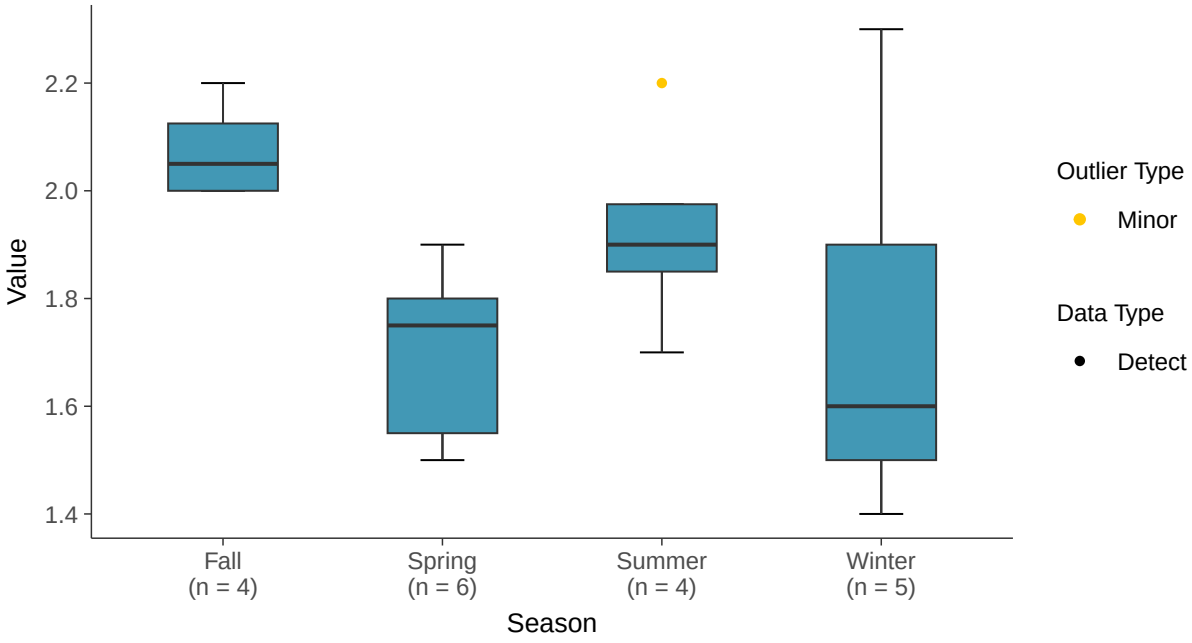
Boxplot

Fluoride, MW-19 (mg/L)



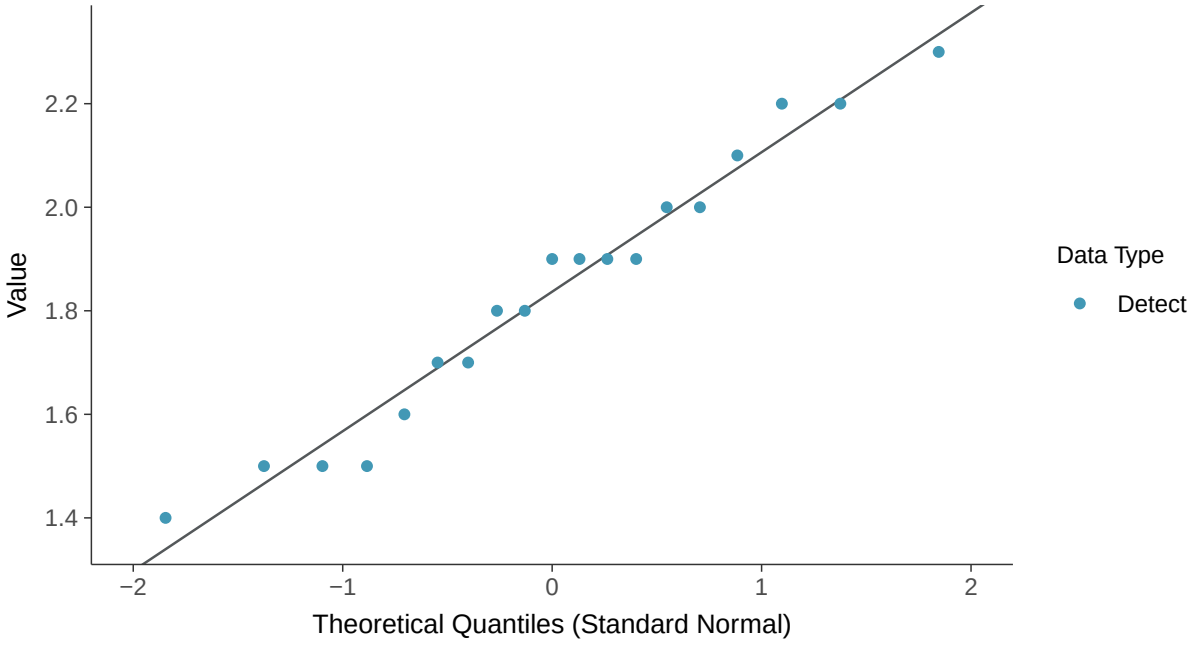
Boxplot by Season

Fluoride, MW-19 (mg/L)



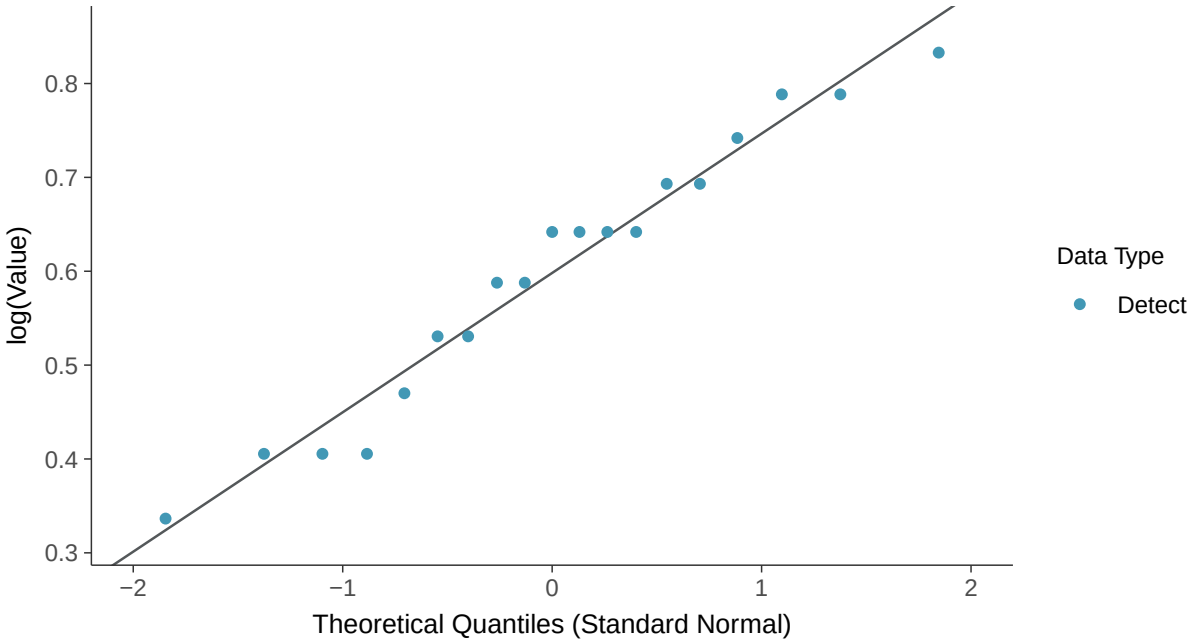
Normal Q-Q plot

Fluoride, MW-19 (mg/L)



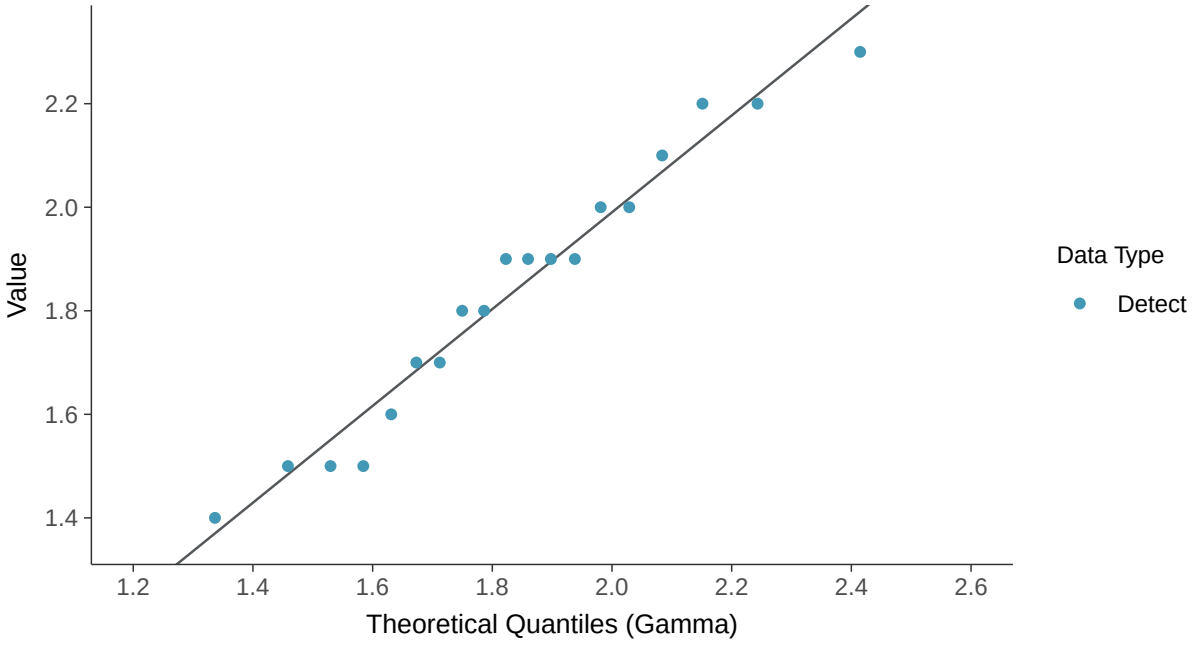
Lognormal Q-Q plot

Fluoride, MW-19 (mg/L)



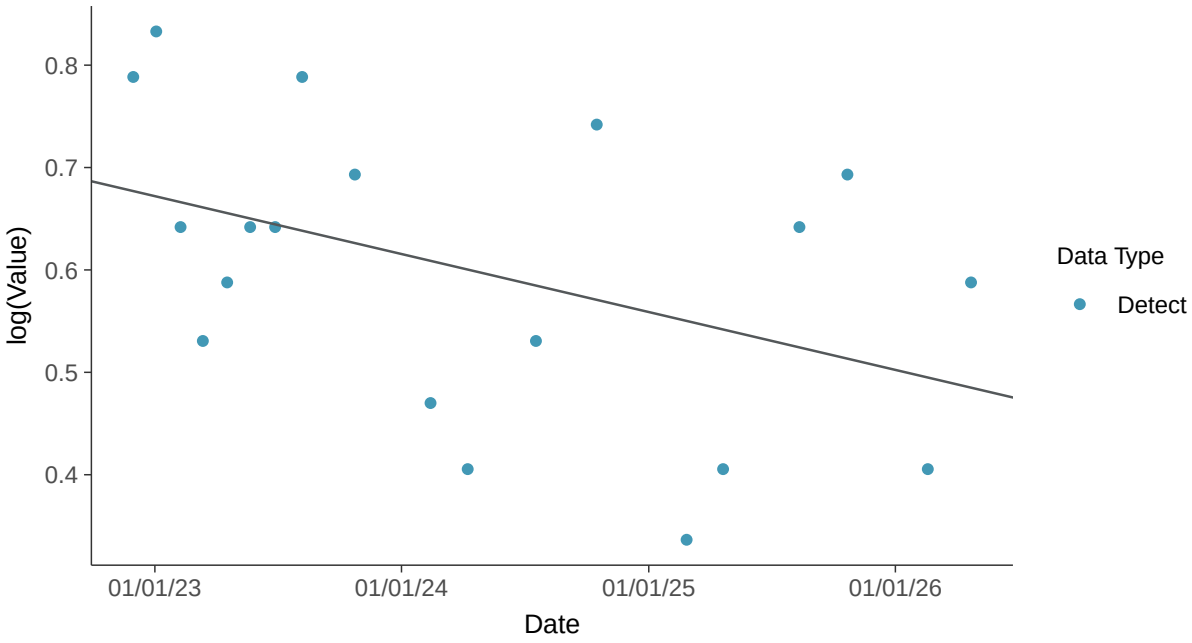
Gamma Q-Q plot

Fluoride, MW-19 (mg/L)



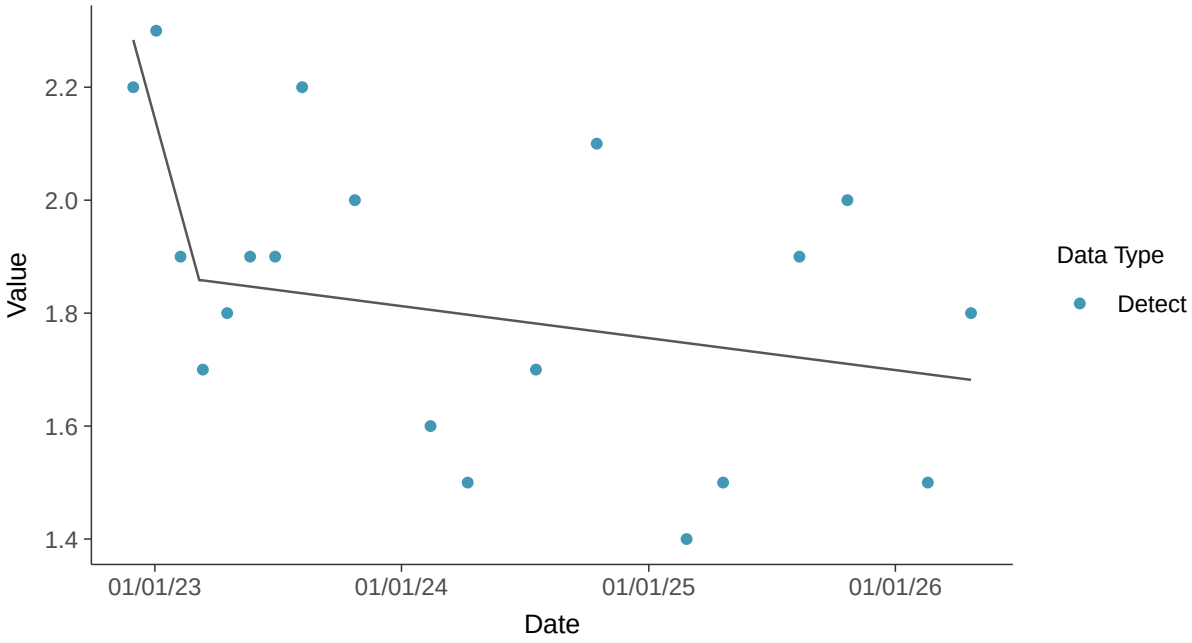
Trend Regression: Lognormal MLE

Fluoride, MW-19 (mg/L)



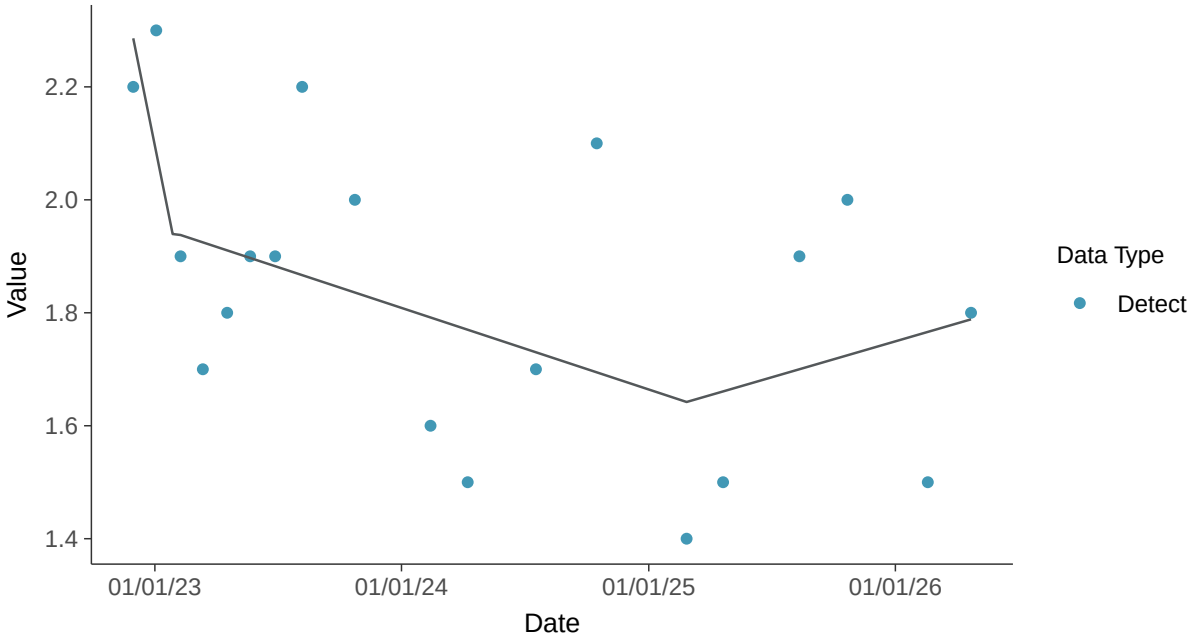
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-19 (mg/L)



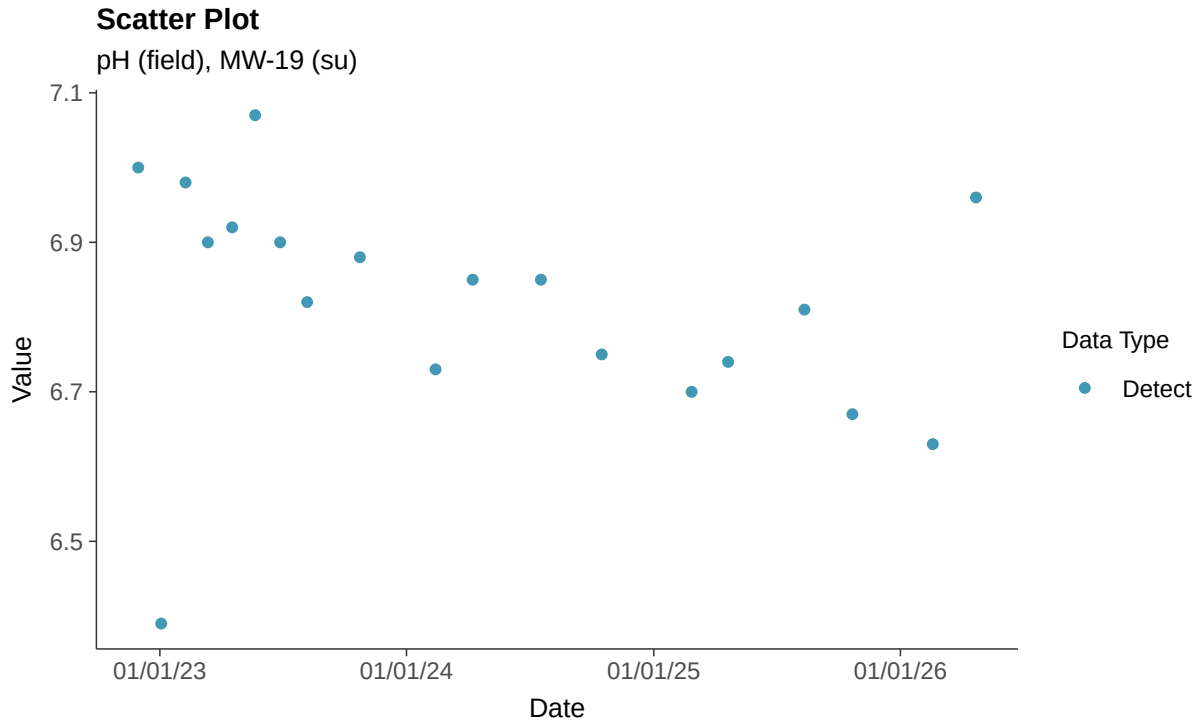
Trend Regression: Piecewise Linear-Linear-Linear

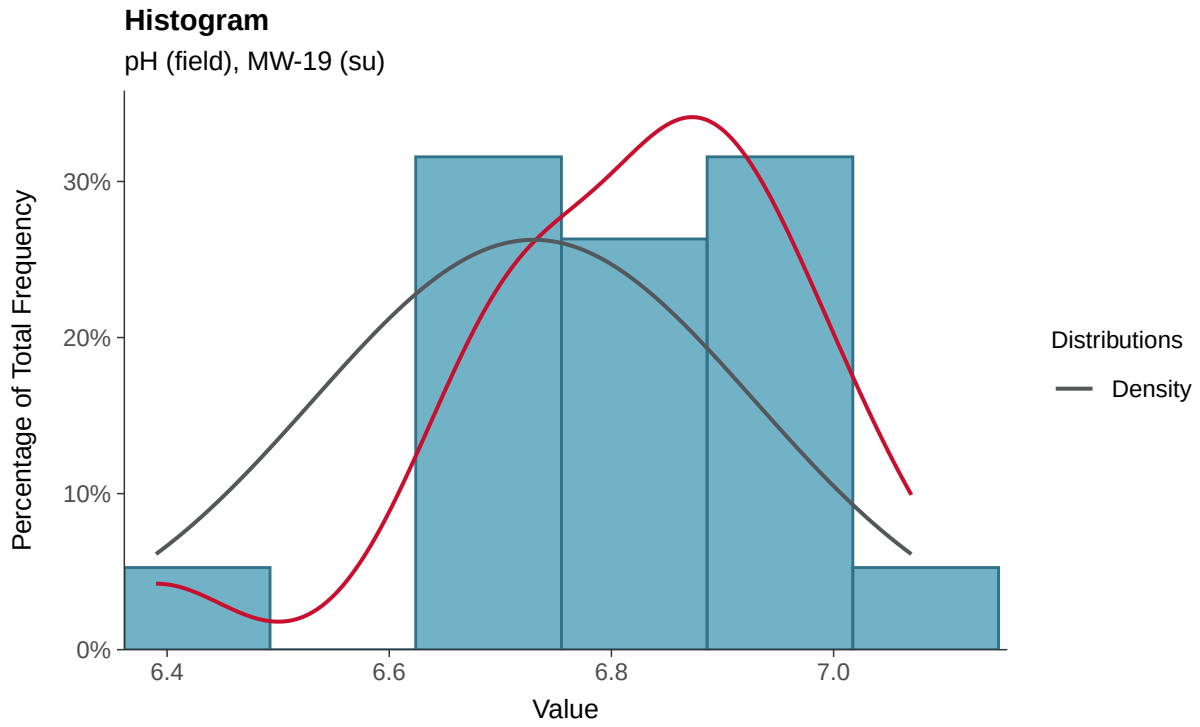
Fluoride, MW-19 (mg/L)



Appendix III: pH (field), MW-19

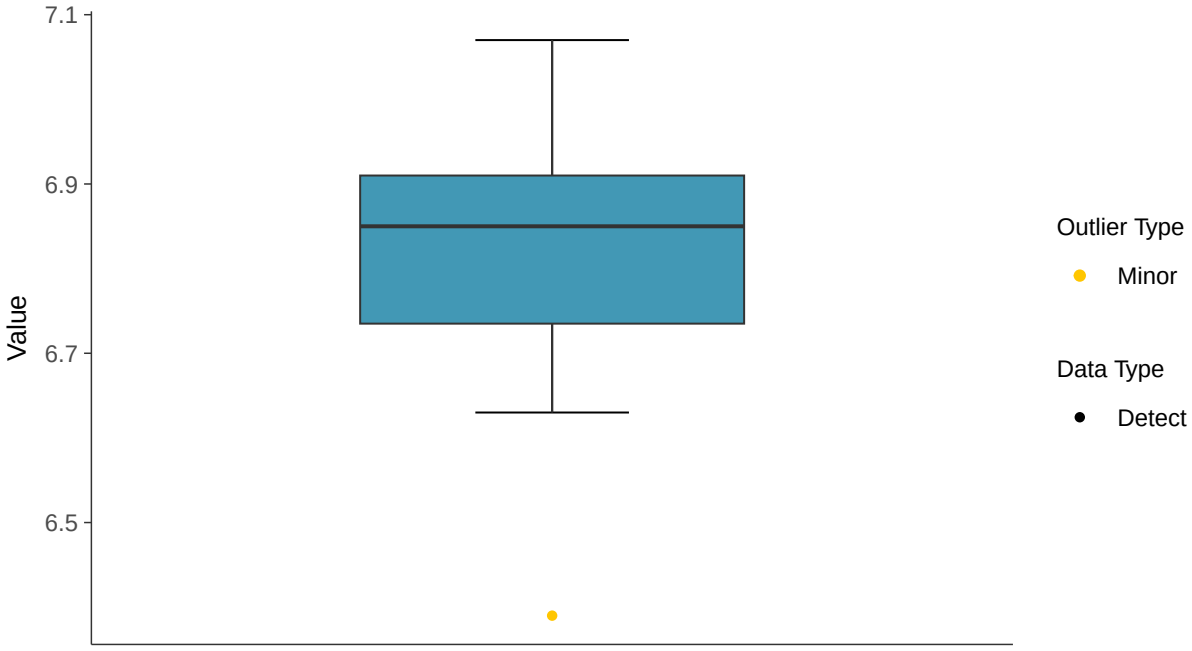
ID: 29_1_3_120





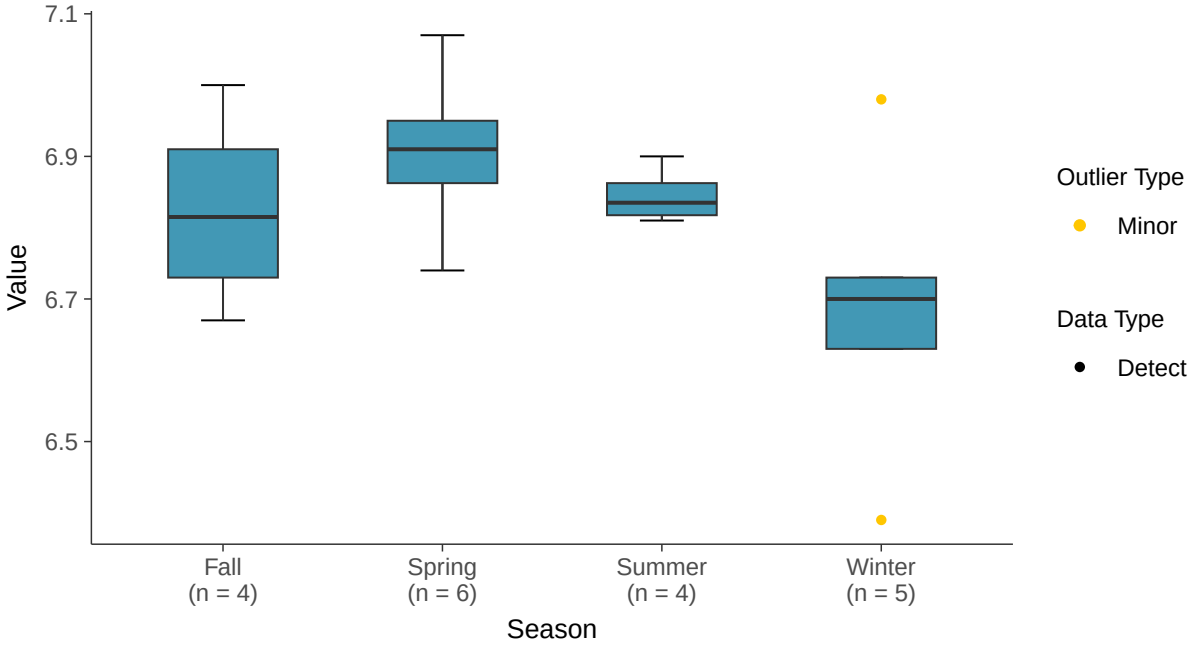
Boxplot

pH (field), MW-19 (su)



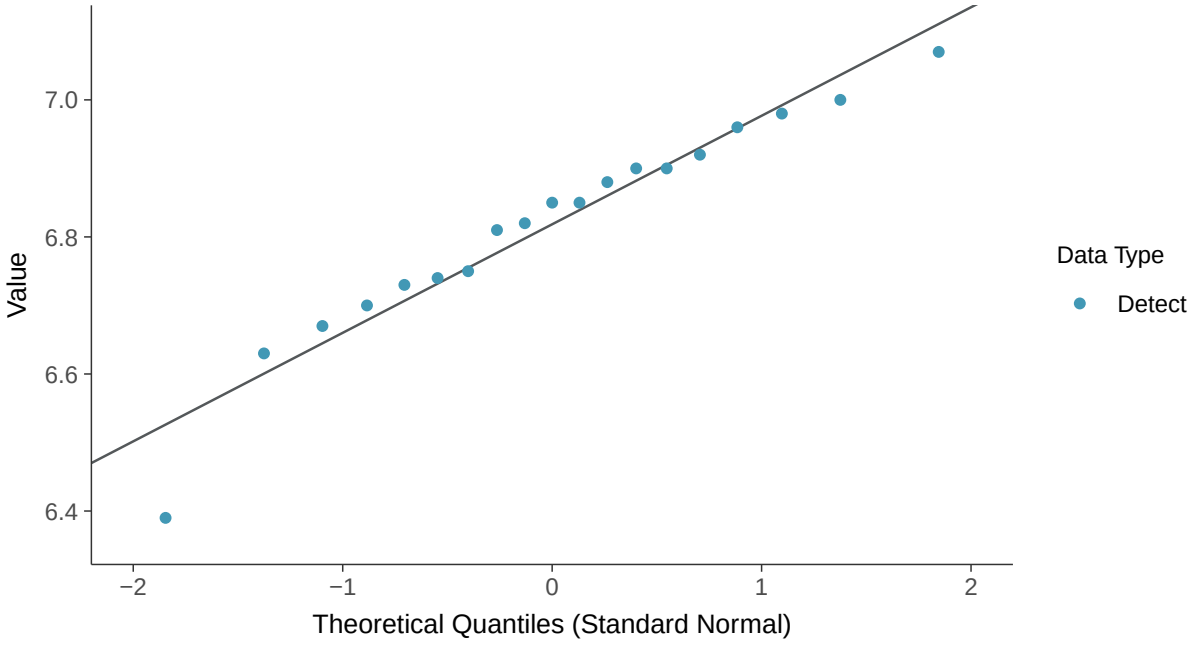
Boxplot by Season

pH (field), MW-19 (su)



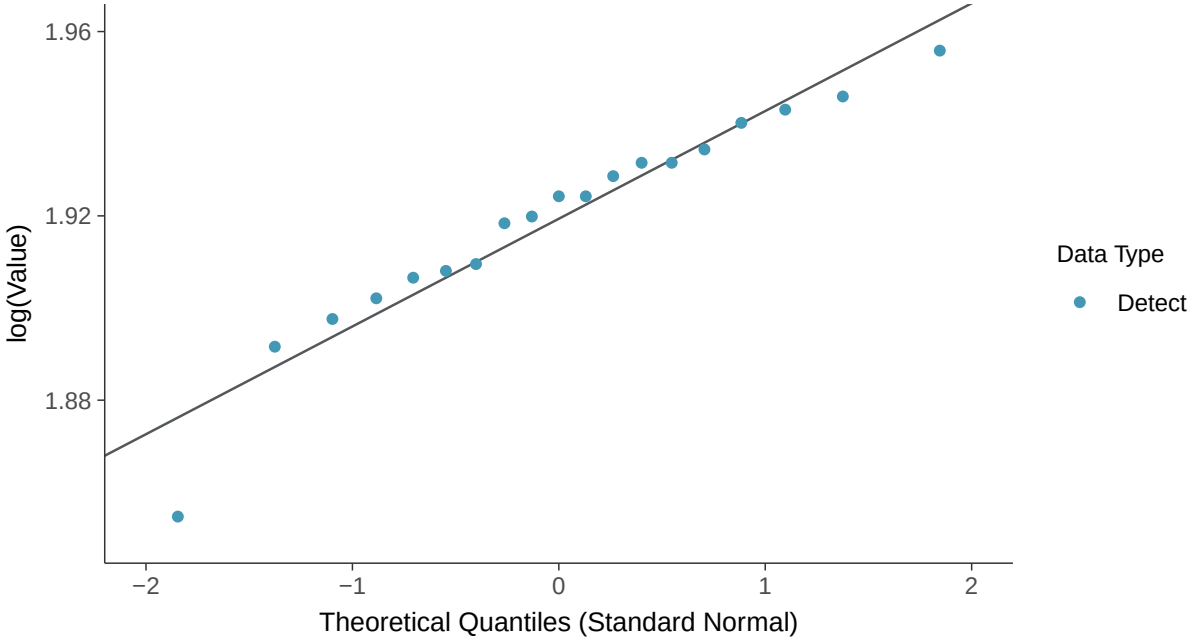
Normal Q-Q plot

pH (field), MW-19 (su)



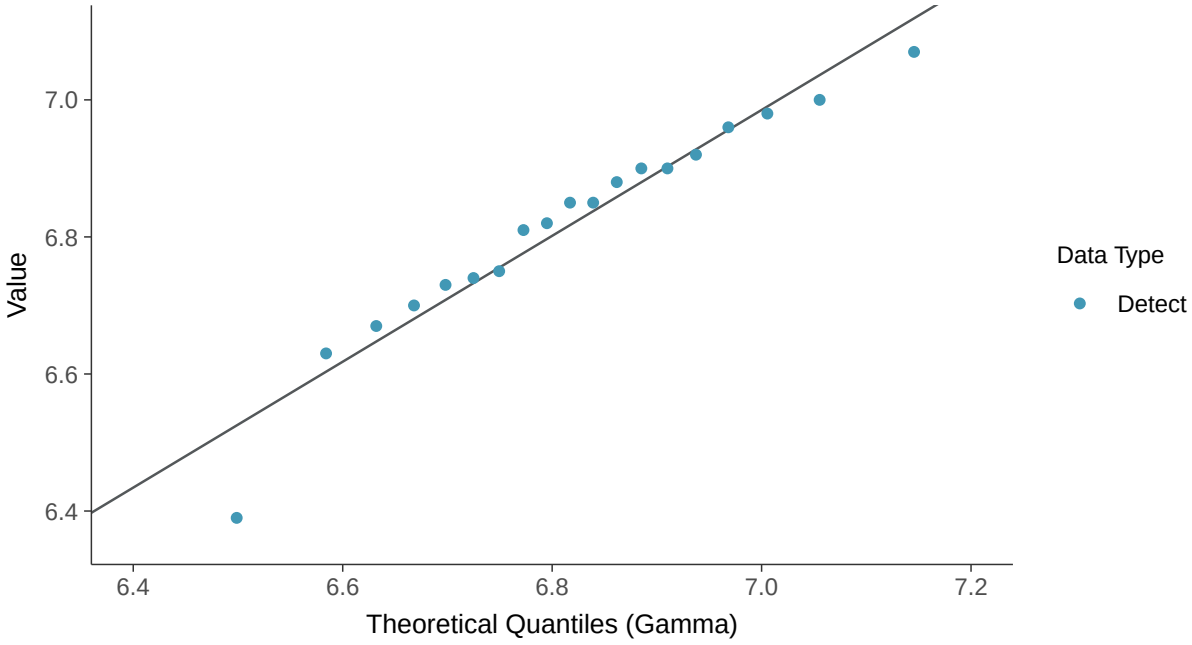
Lognormal Q-Q plot

pH (field), MW-19 (su)



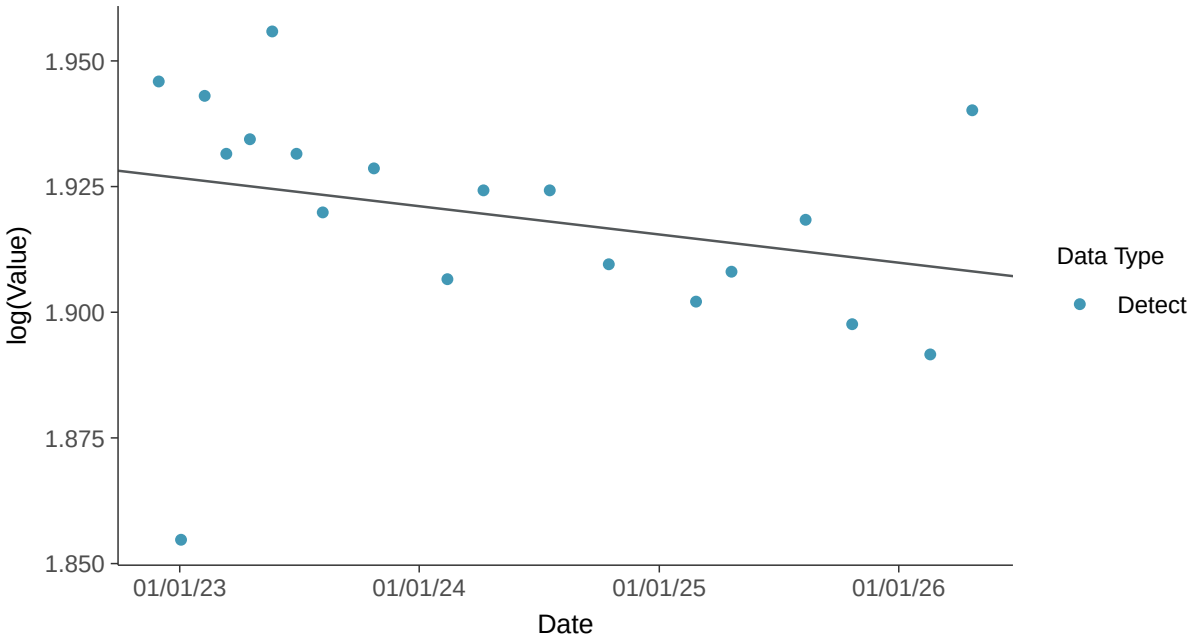
Gamma Q-Q plot

pH (field), MW-19 (su)



Trend Regression: Lognormal MLE

pH (field), MW-19 (su)

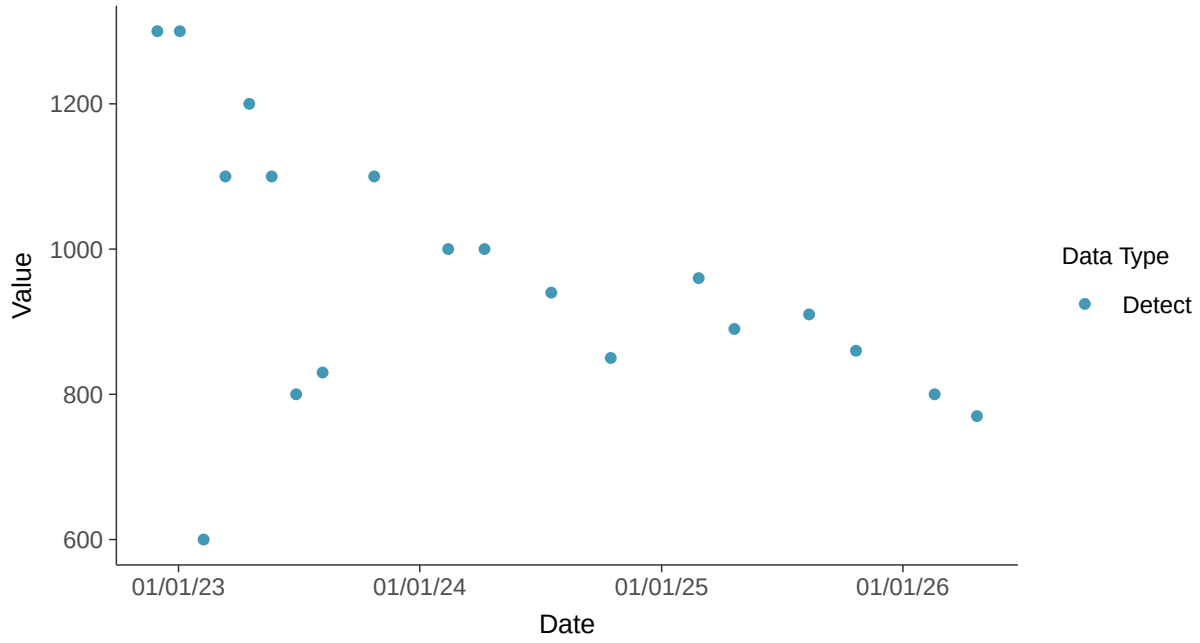


Appendix III: Sulfate (as SO4), MW-19

ID: 29_1_3_124

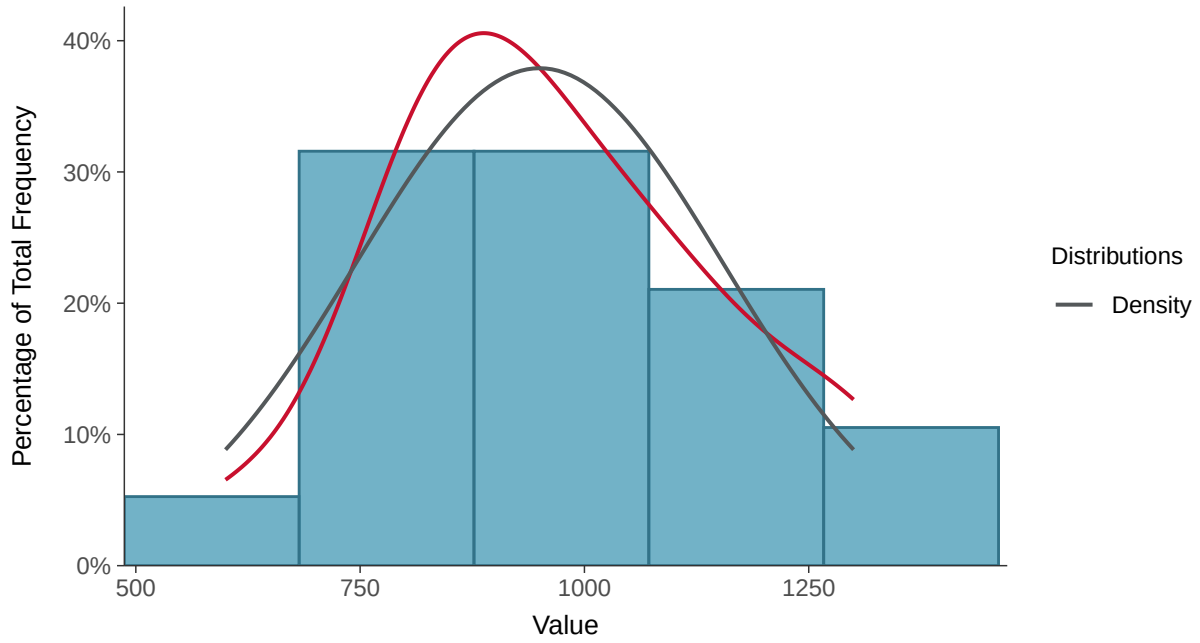
Scatter Plot

Sulfate (as SO4), MW-19 (mg/L)



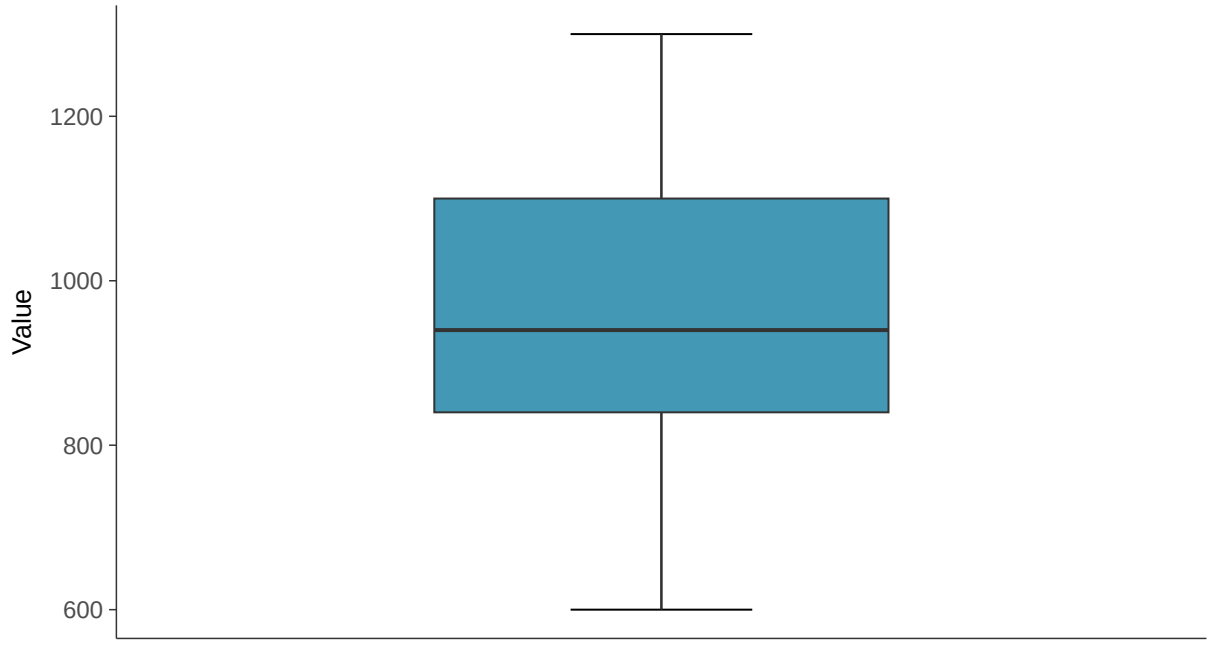
Histogram

Sulfate (as SO4), MW-19 (mg/L)



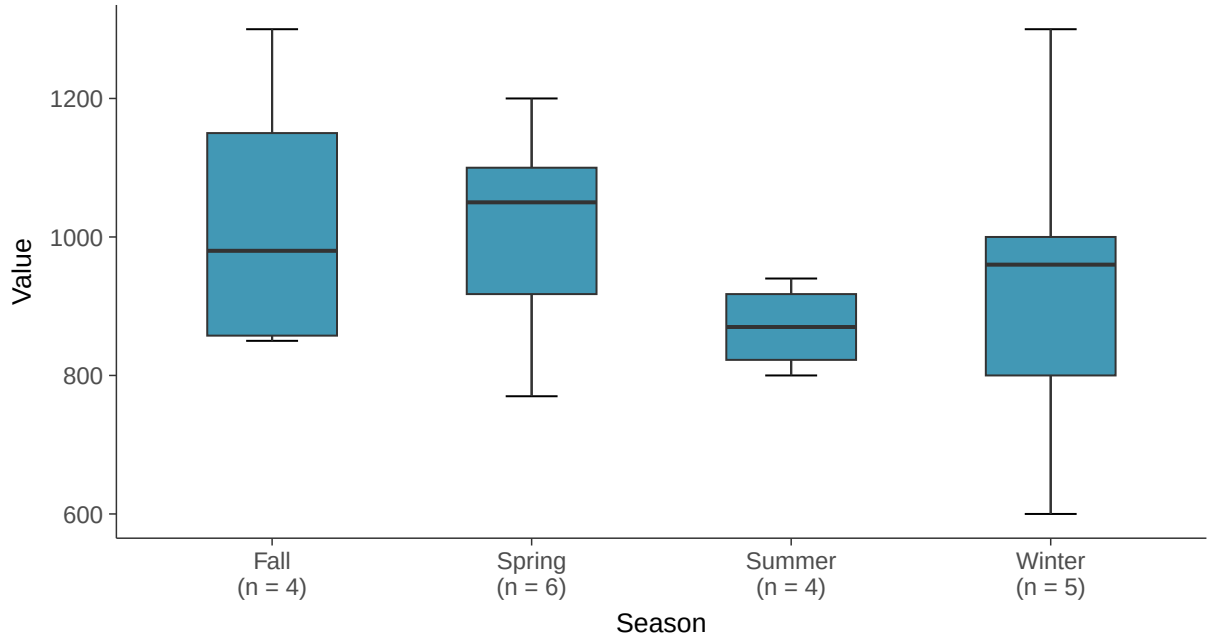
Boxplot

Sulfate (as SO4), MW-19 (mg/L)



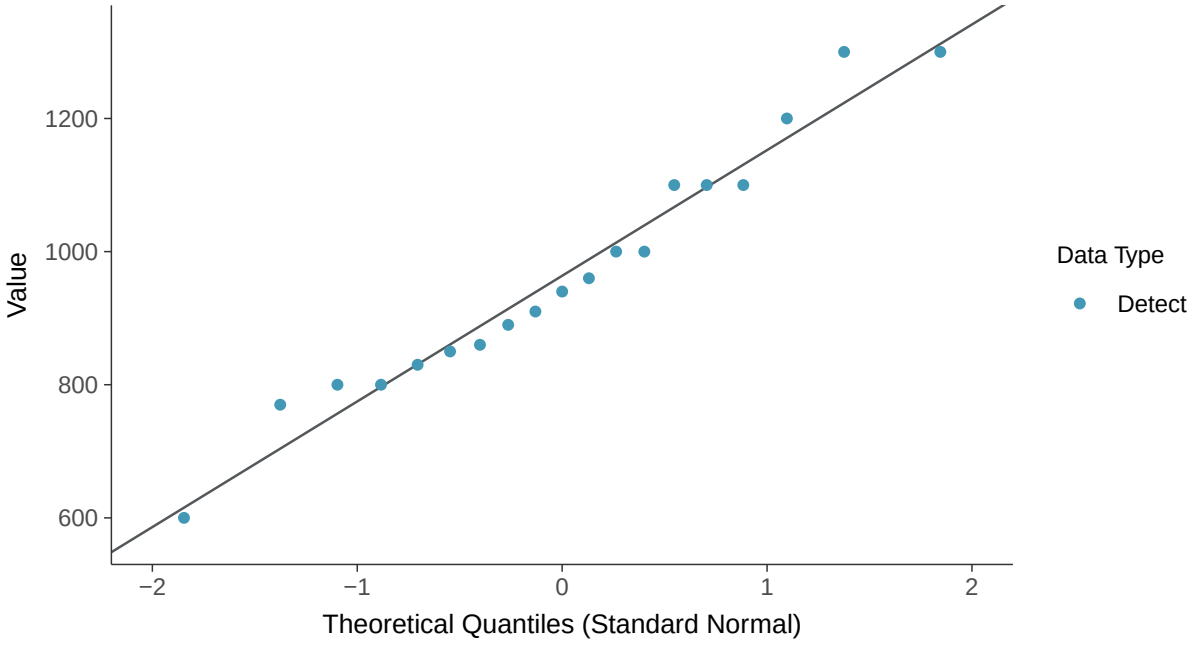
Boxplot by Season

Sulfate (as SO4), MW-19 (mg/L)



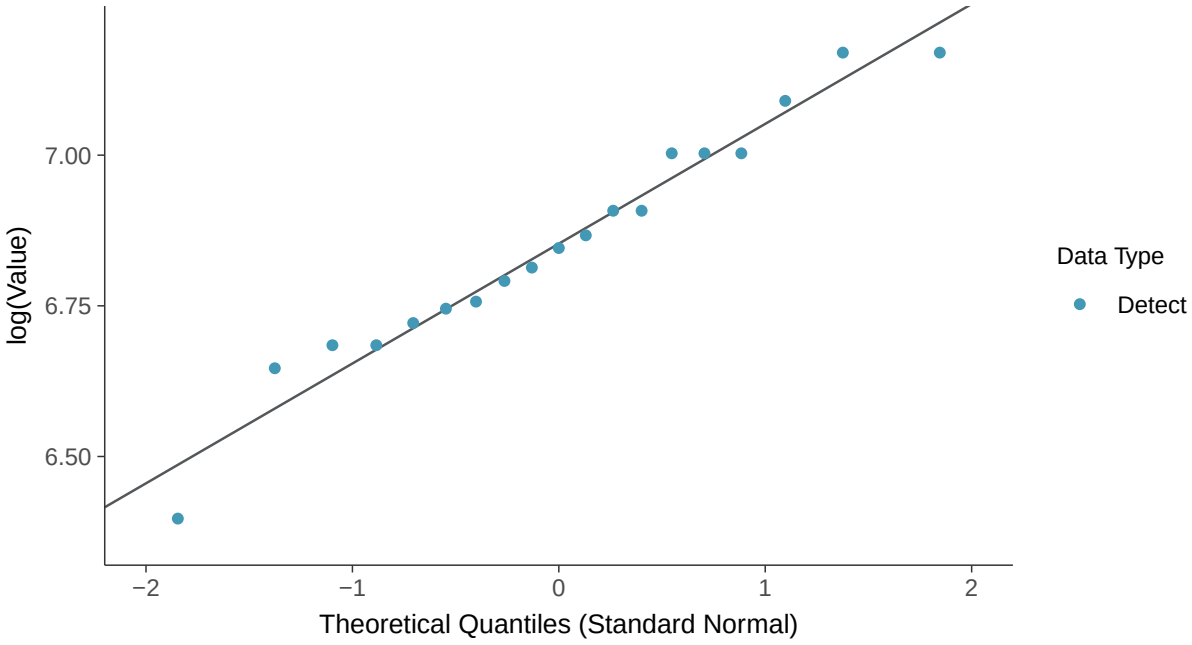
Normal Q-Q plot

Sulfate (as SO4), MW-19 (mg/L)



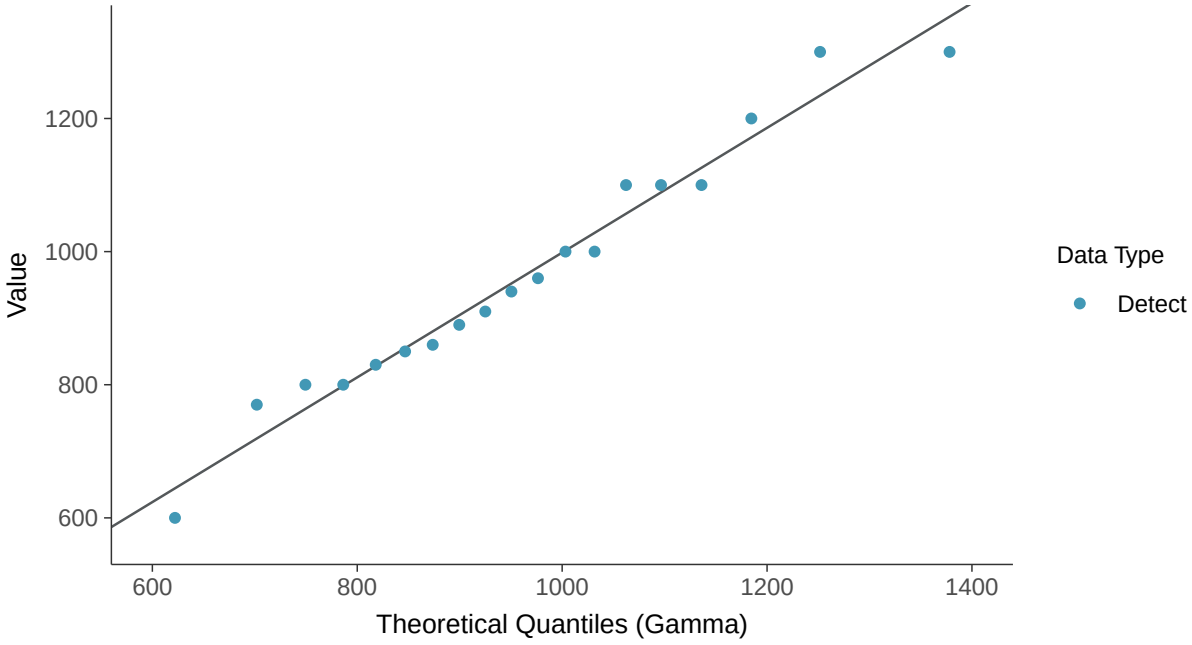
Lognormal Q-Q plot

Sulfate (as SO4), MW-19 (mg/L)



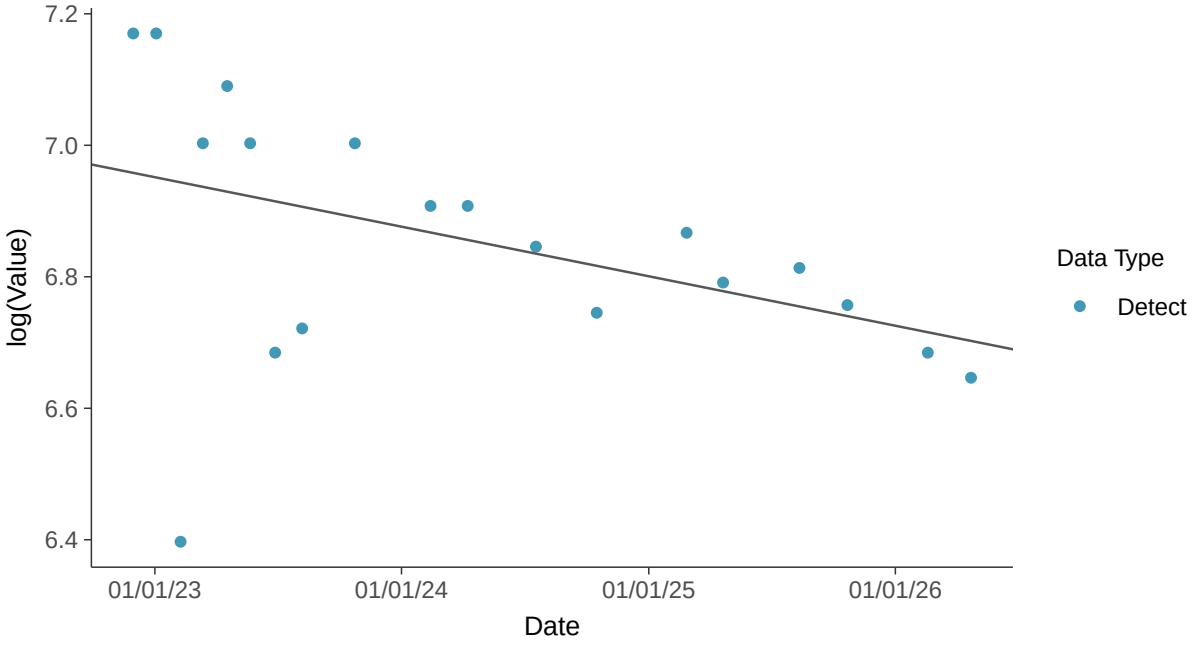
Gamma Q-Q plot

Sulfate (as SO4), MW-19 (mg/L)



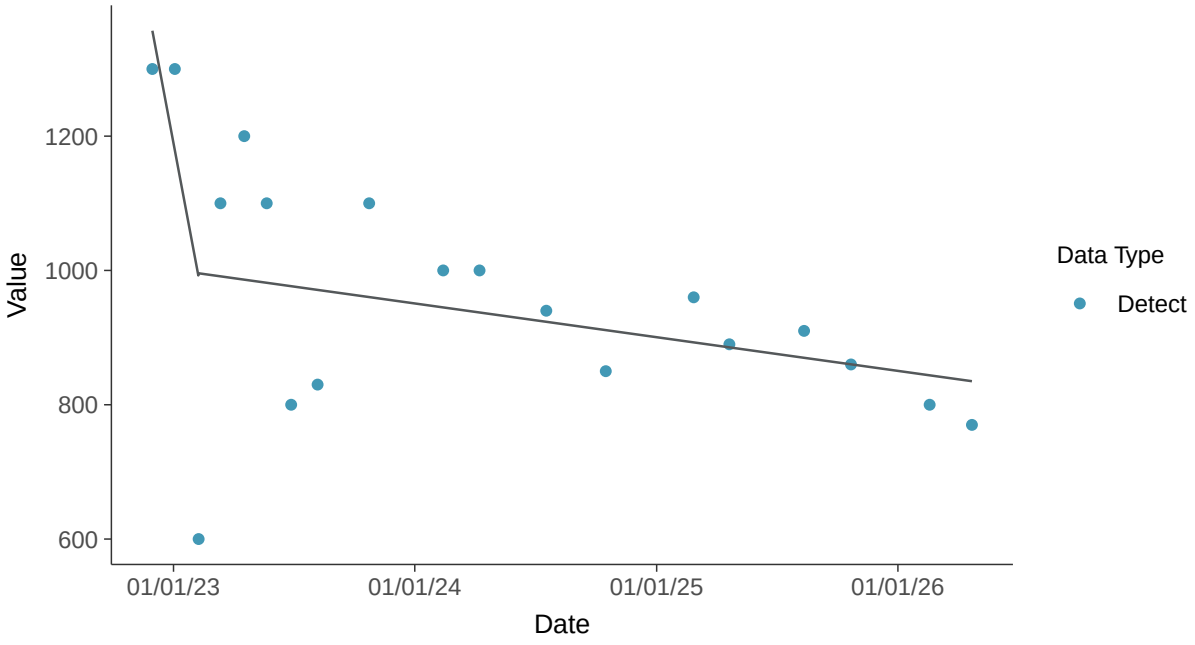
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-19 (mg/L)



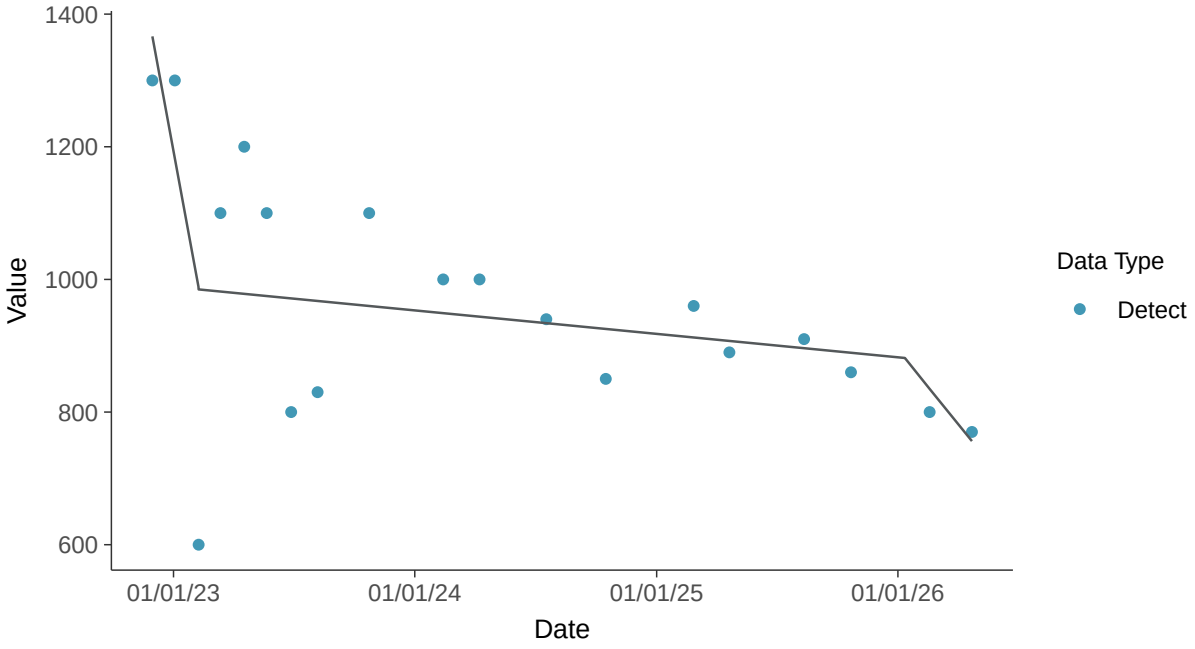
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-19 (mg/L)

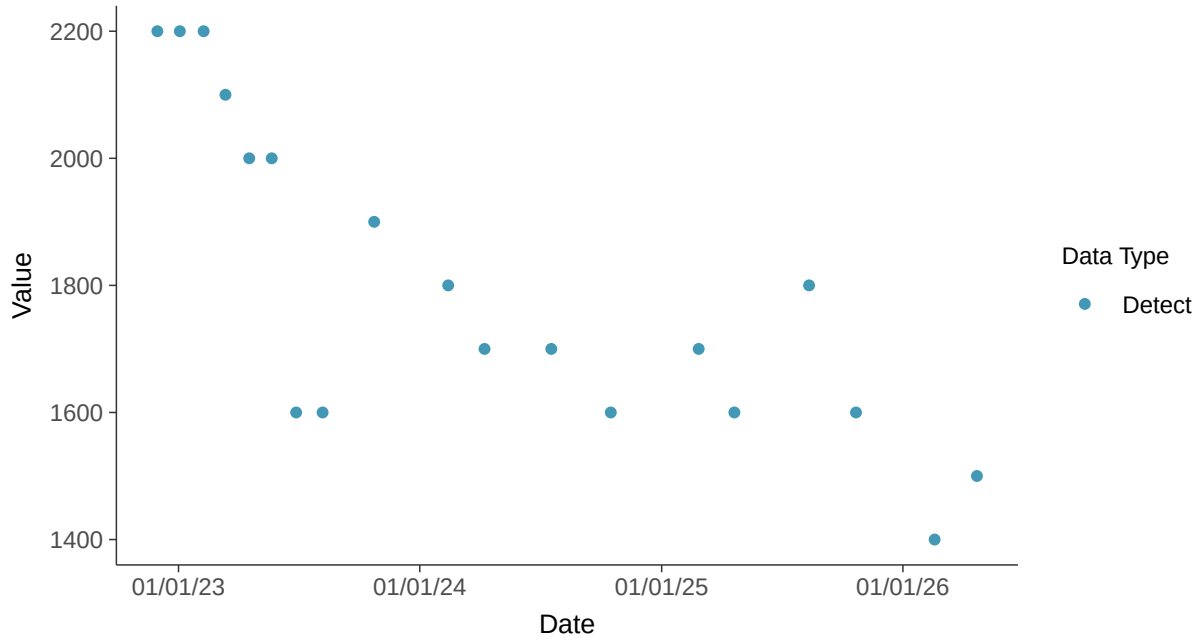


Appendix III: Total Dissolved Solids, MW-19

ID: 29_1_3_126

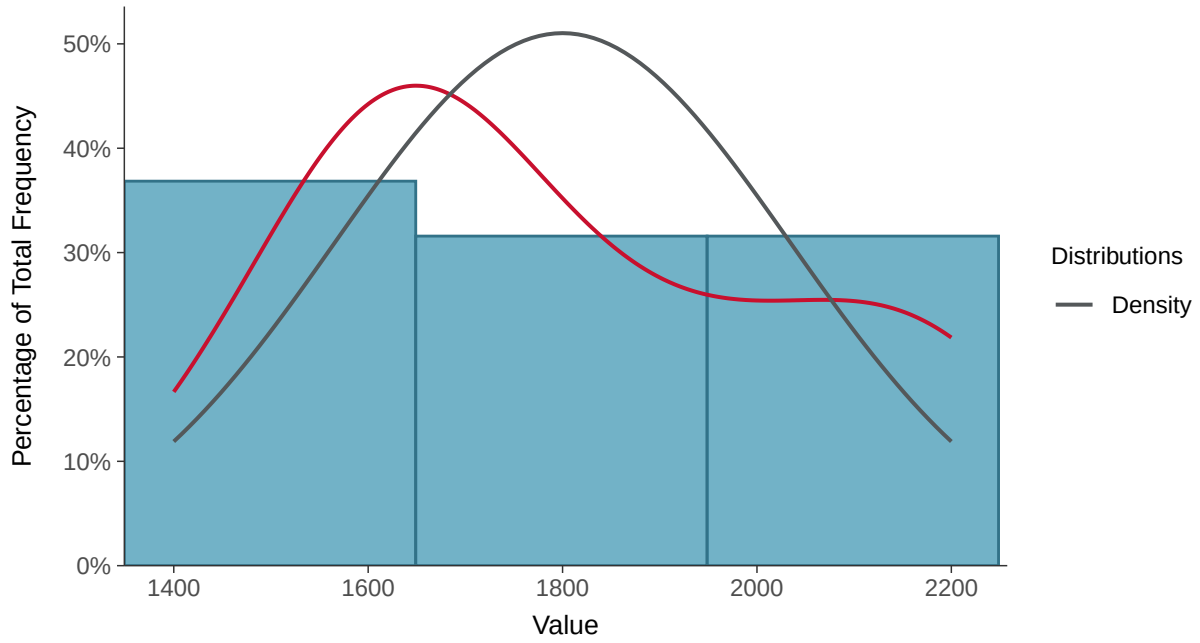
Scatter Plot

Total Dissolved Solids, MW-19 (mg/L)



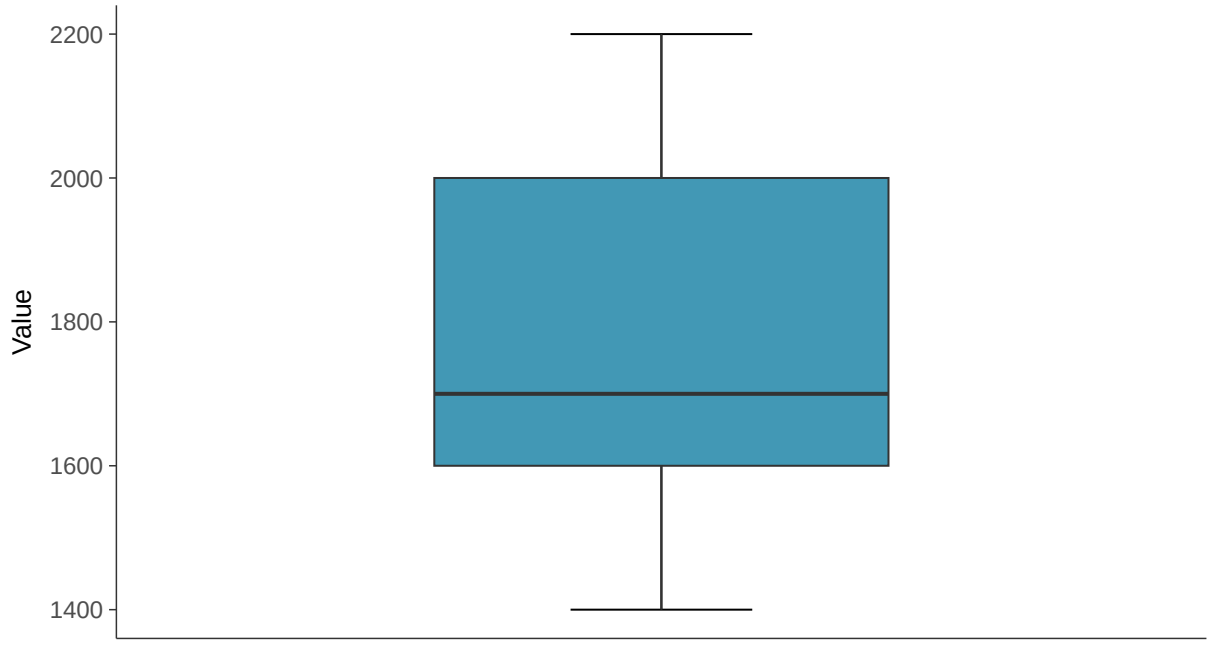
Histogram

Total Dissolved Solids, MW-19 (mg/L)



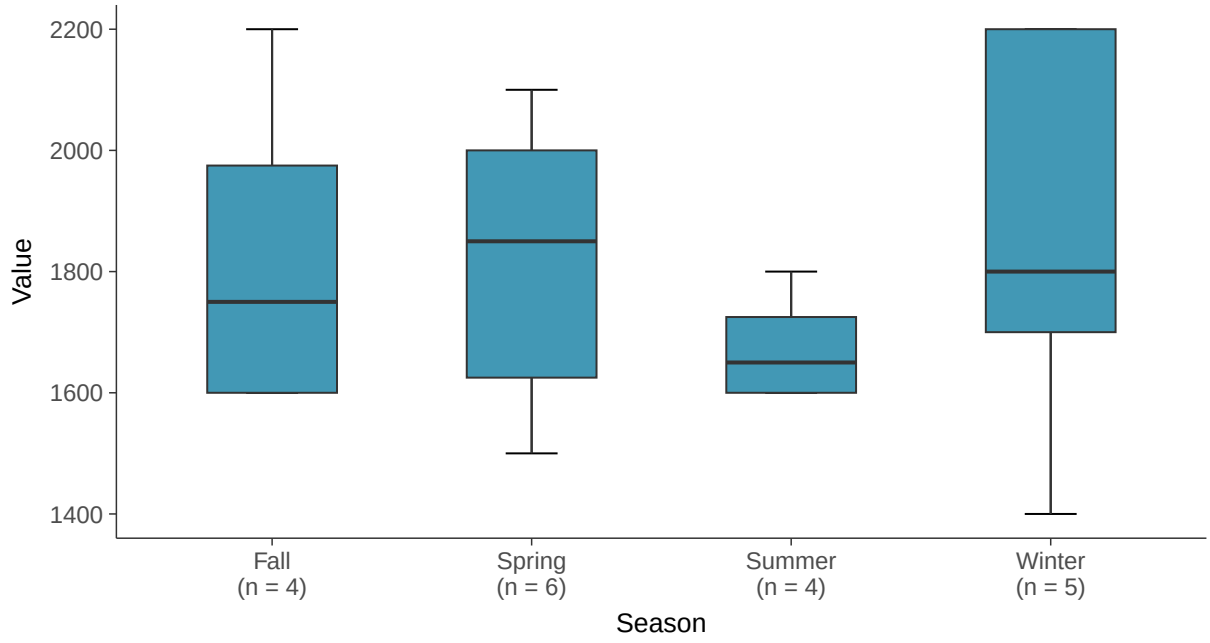
Boxplot

Total Dissolved Solids, MW-19 (mg/L)



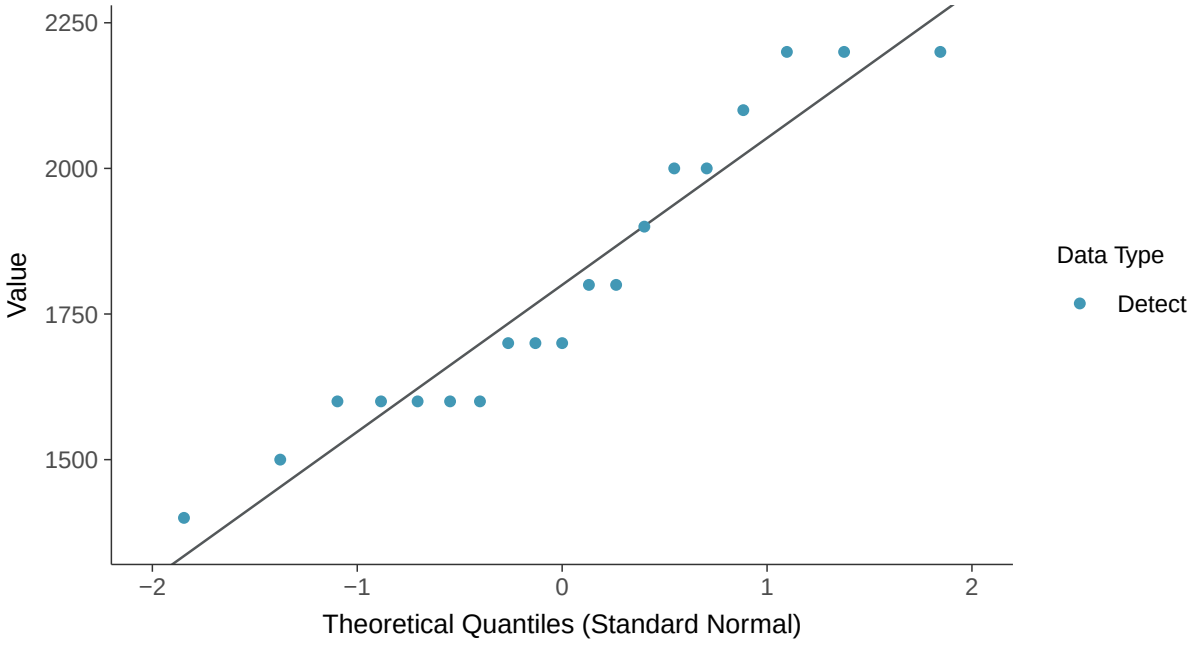
Boxplot by Season

Total Dissolved Solids, MW-19 (mg/L)



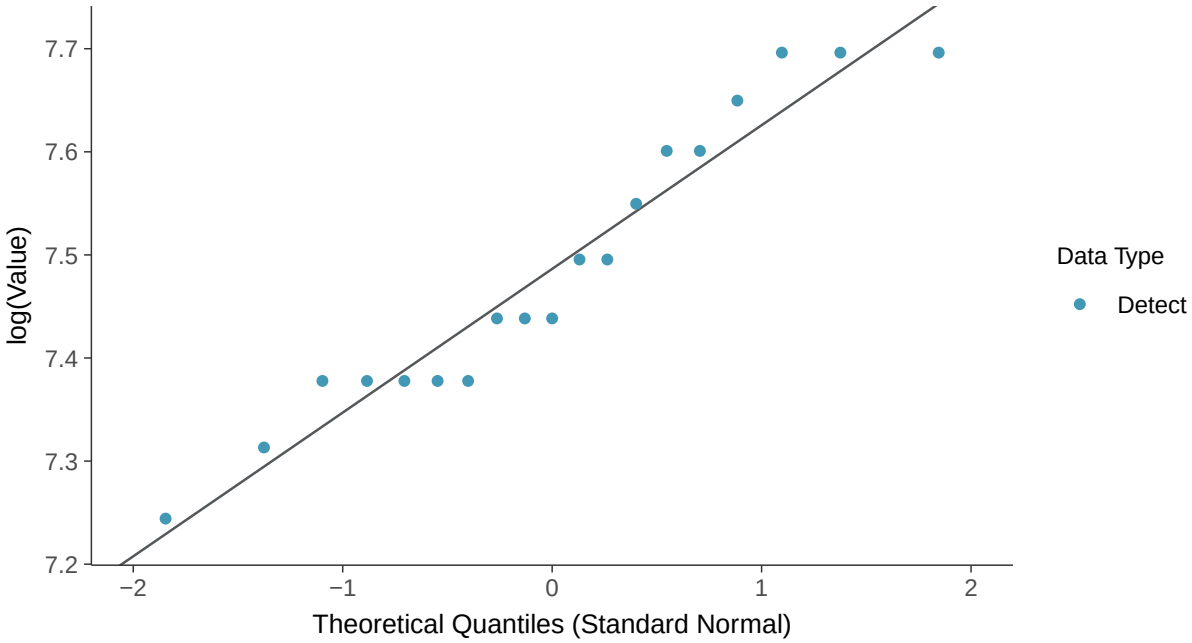
Normal Q-Q plot

Total Dissolved Solids, MW-19 (mg/L)



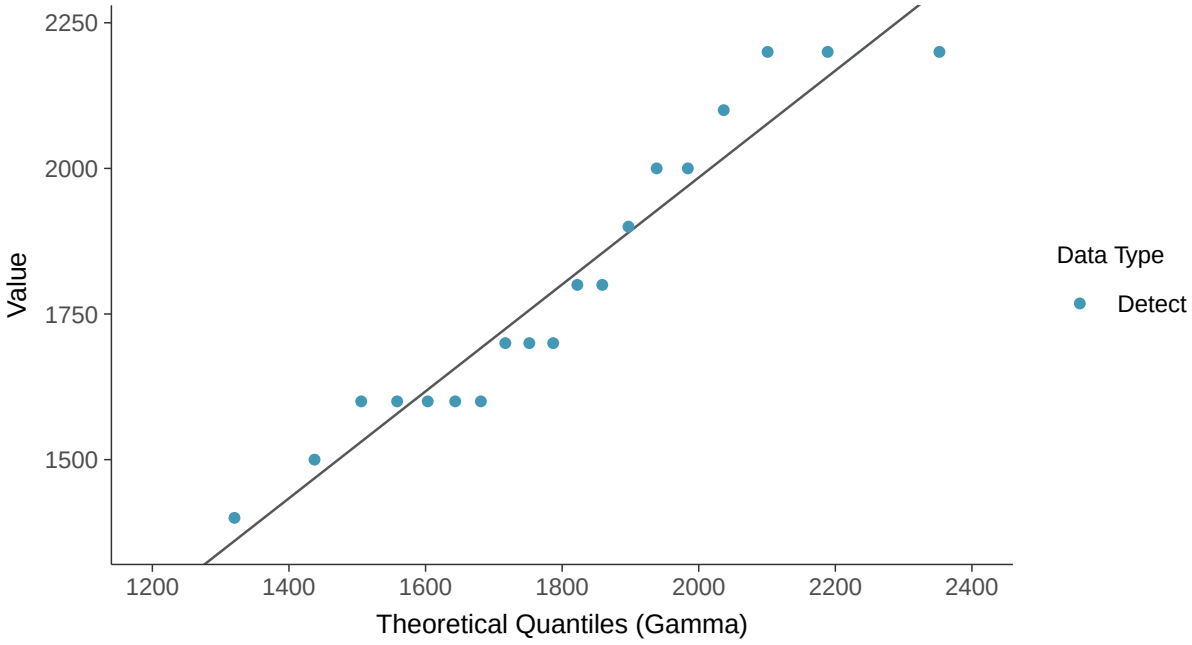
Lognormal Q-Q plot

Total Dissolved Solids, MW-19 (mg/L)



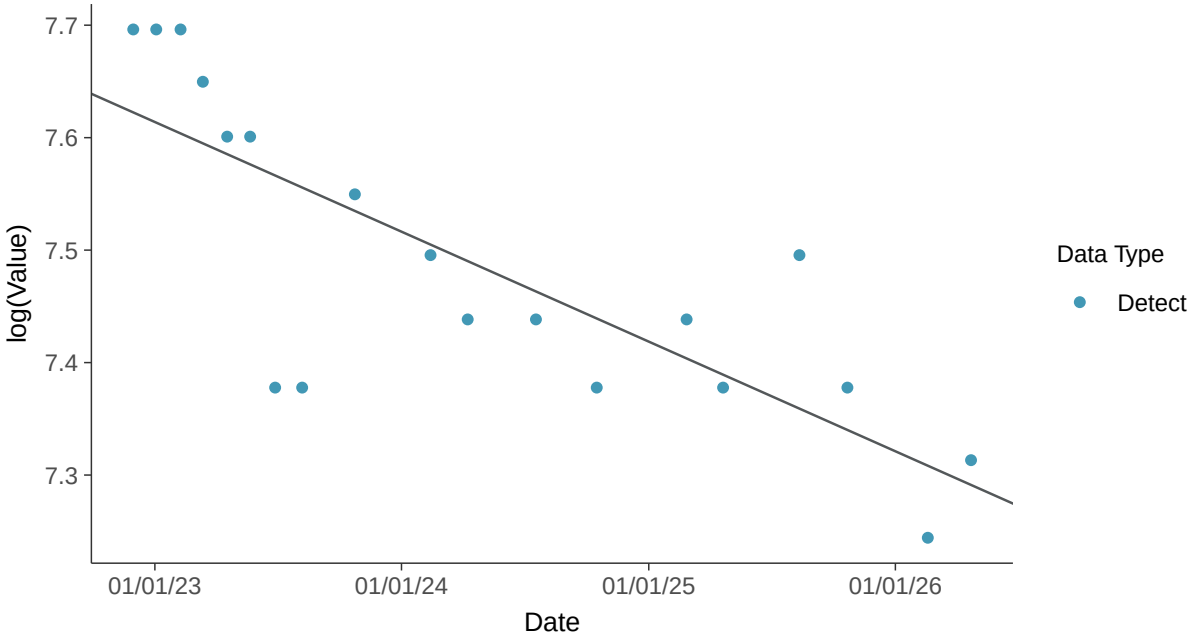
Gamma Q-Q plot

Total Dissolved Solids, MW-19 (mg/L)



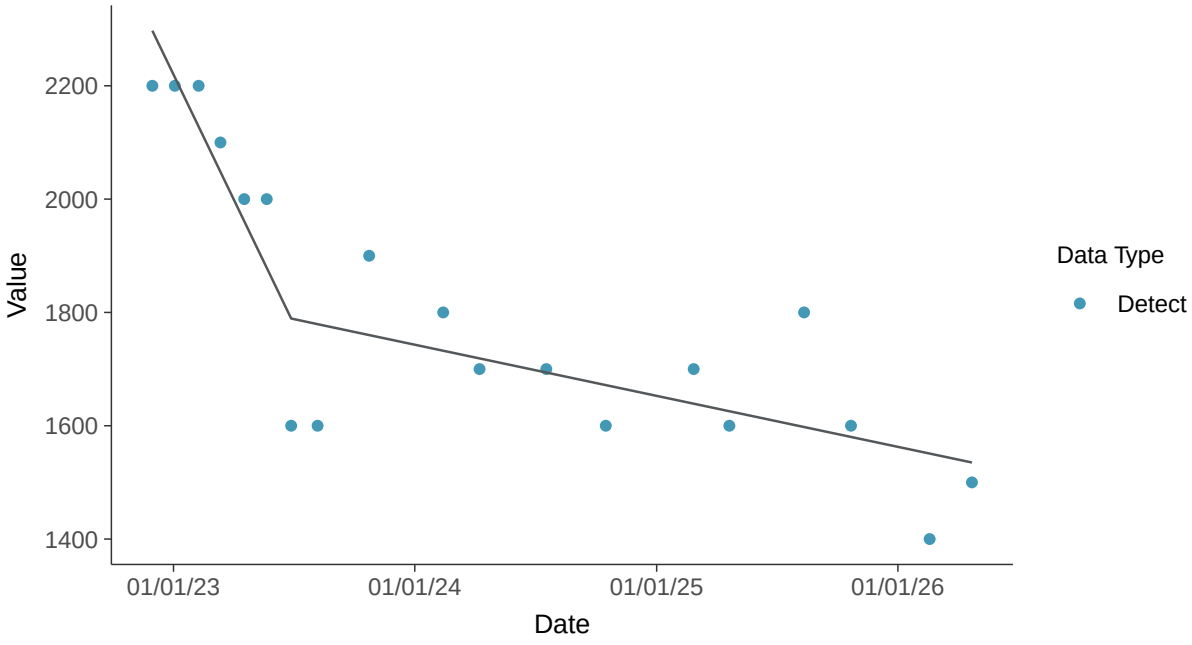
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-19 (mg/L)

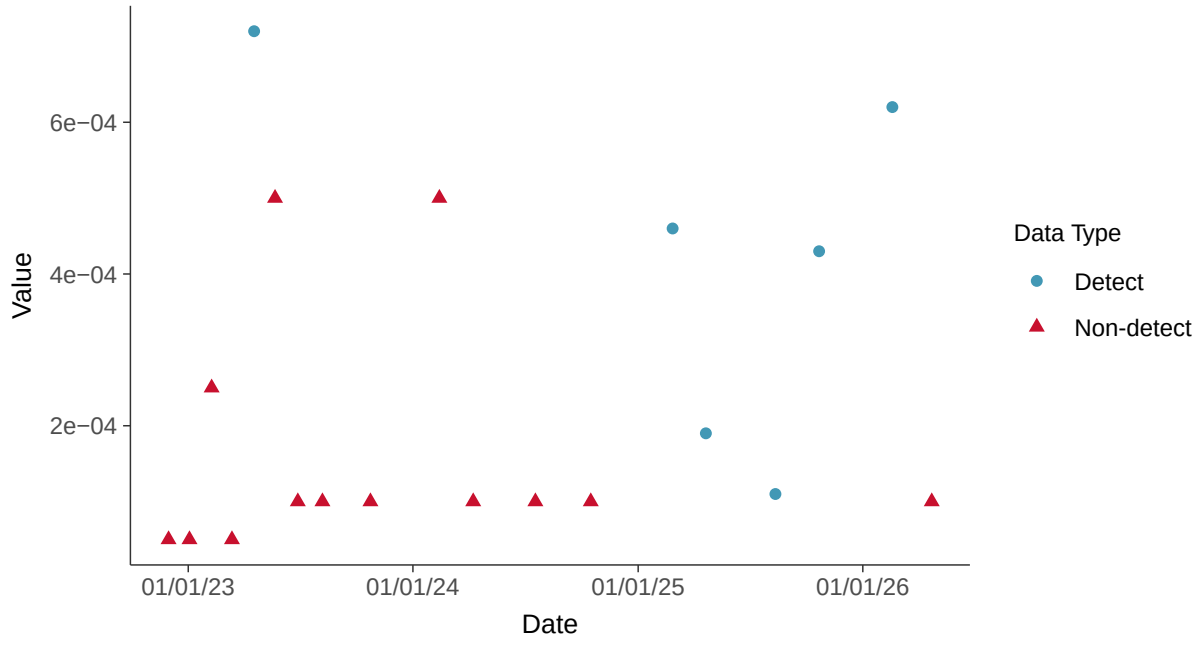


Appendix IV: Antimony, MW-19

ID: 29_1_4_101

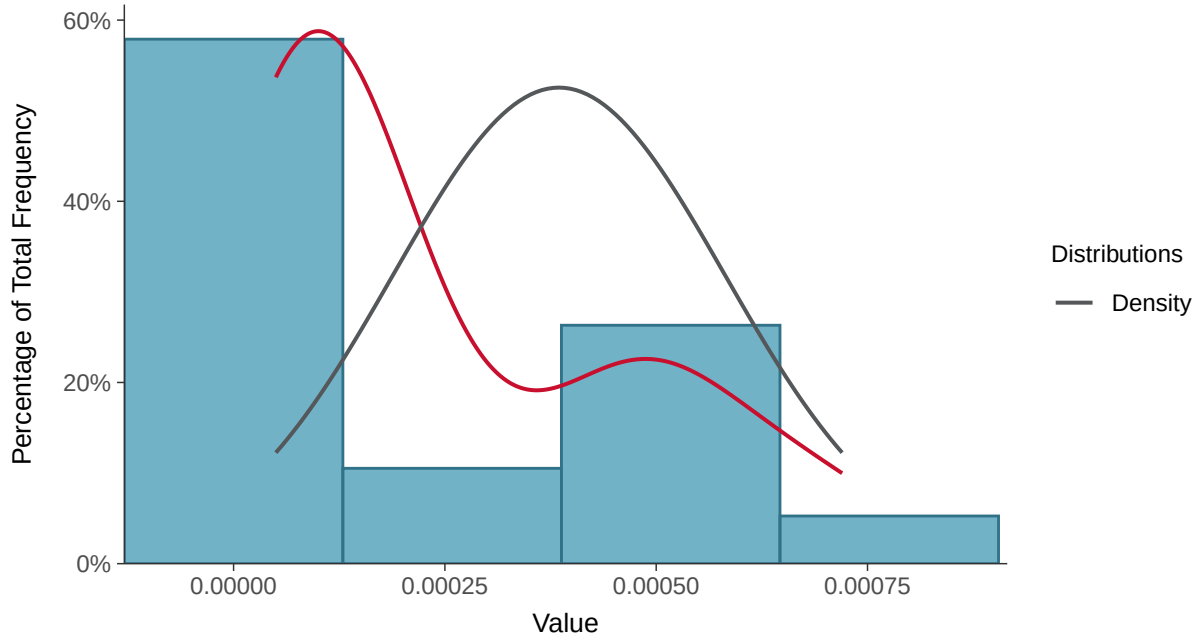
Scatter Plot

Antimony, MW-19 (mg/L)



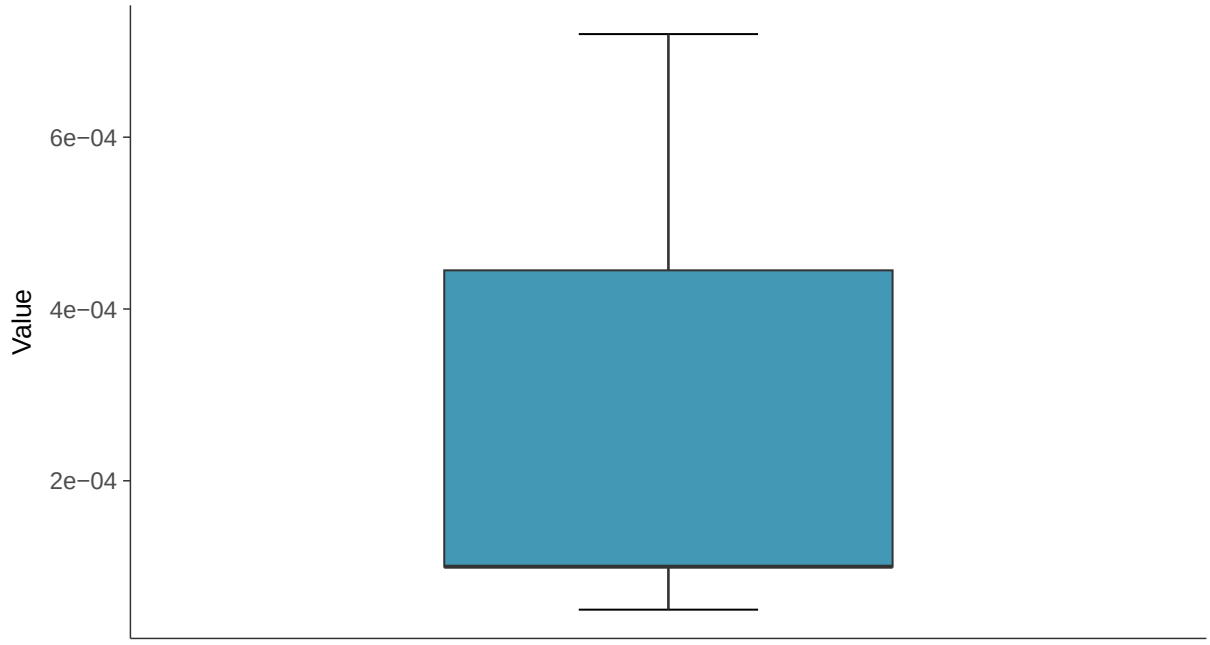
Histogram

Antimony, MW-19 (mg/L)



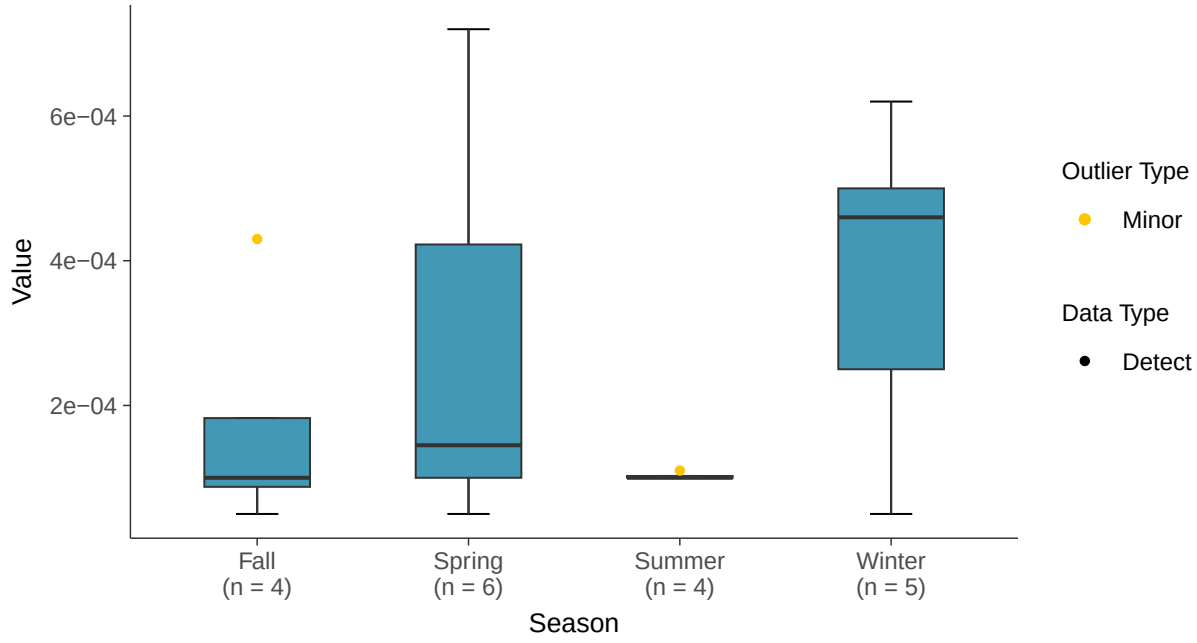
Boxplot

Antimony, MW-19 (mg/L)



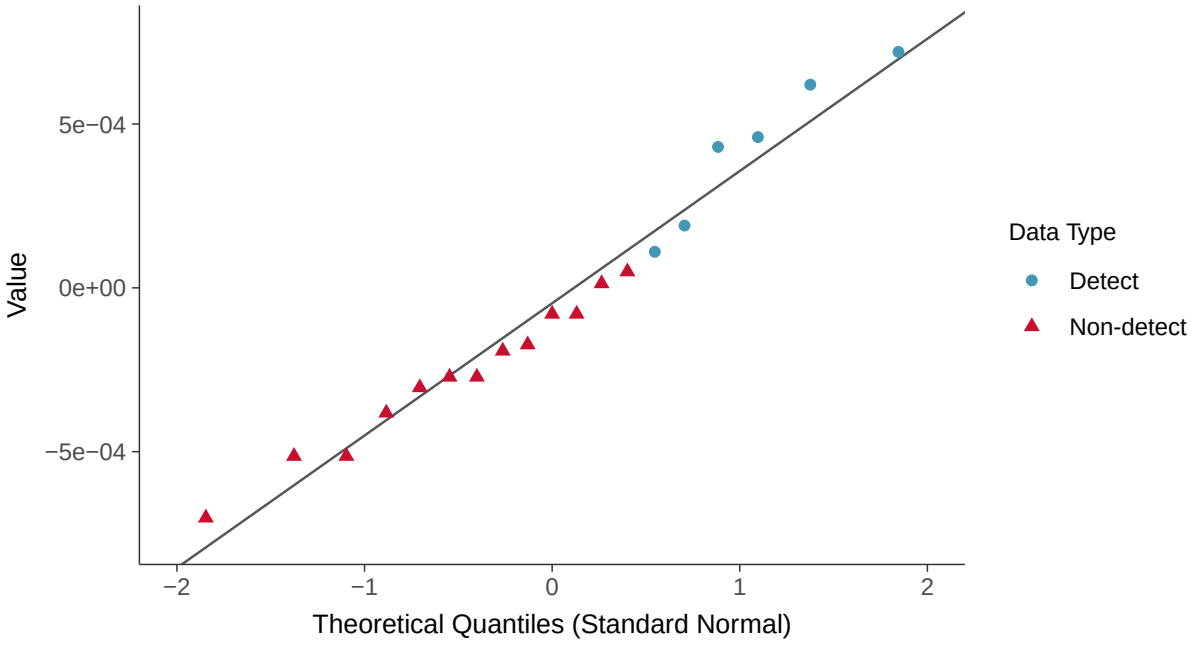
Boxplot by Season

Antimony, MW-19 (mg/L)



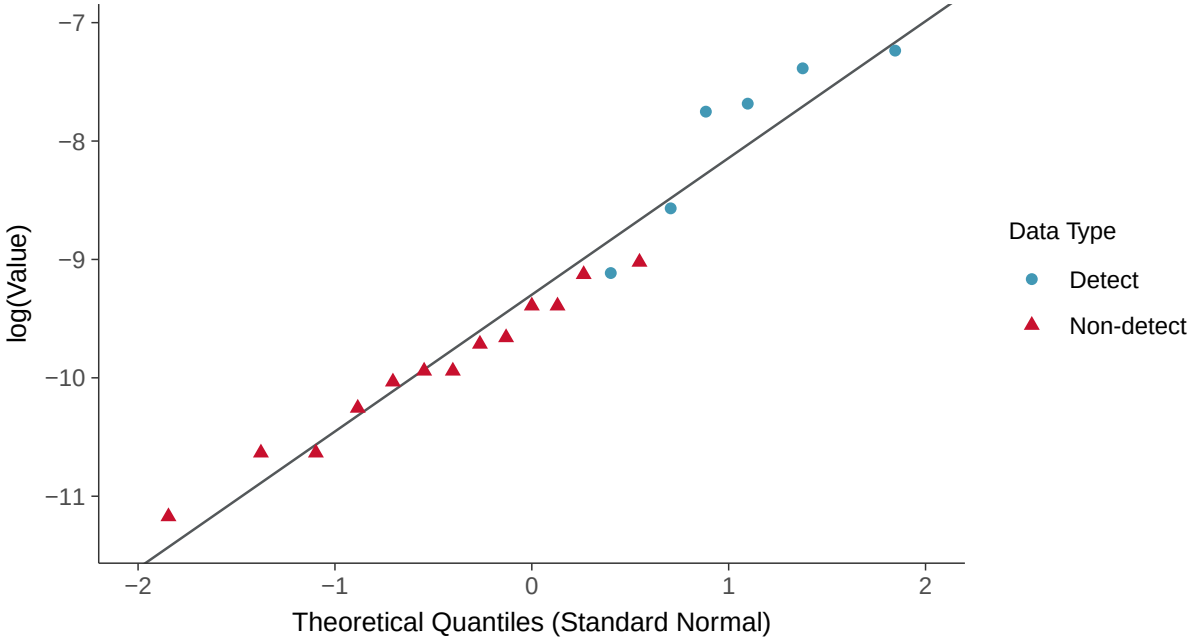
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-19 (mg/L)



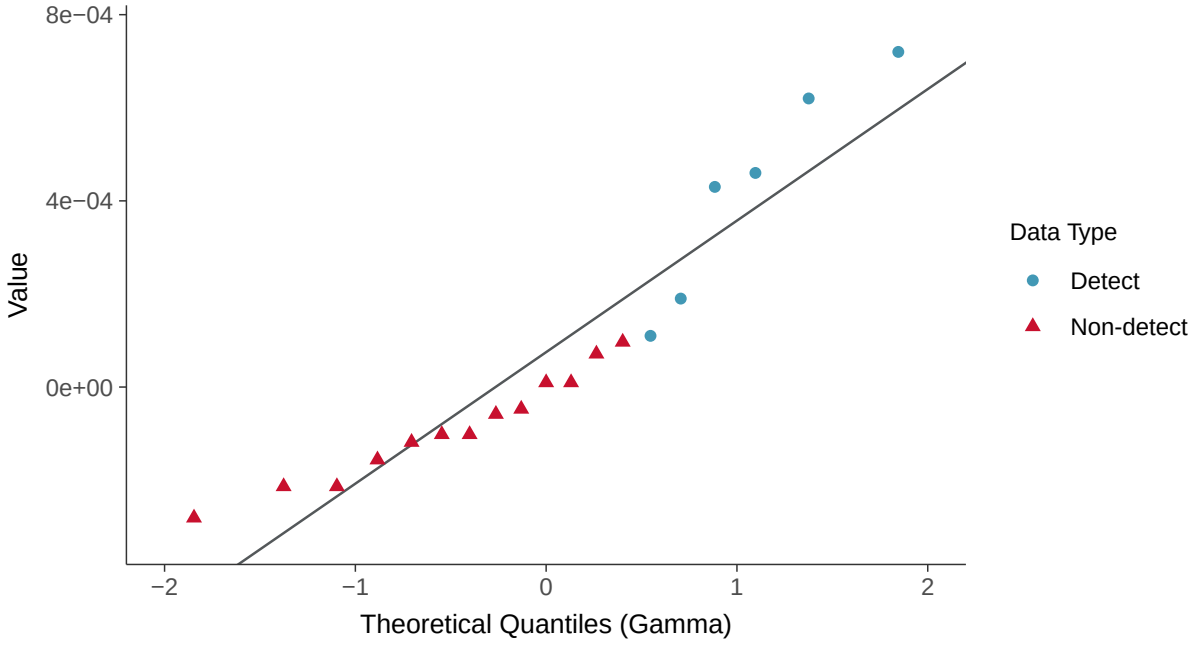
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-19 (mg/L)



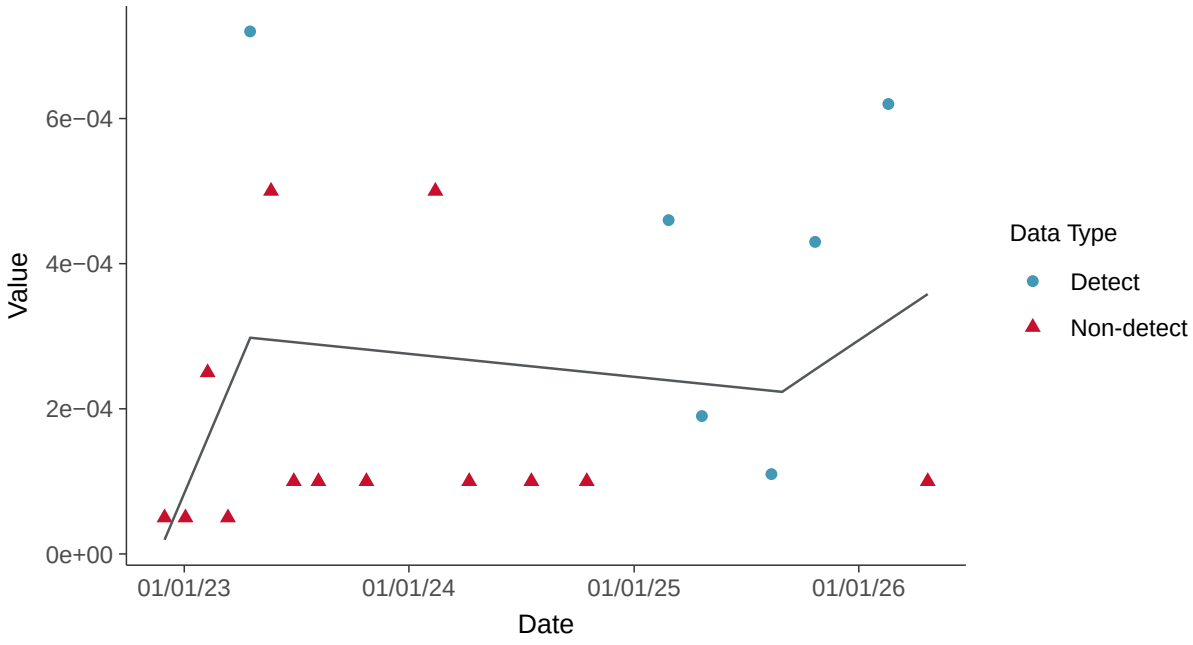
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-19 (mg/L)

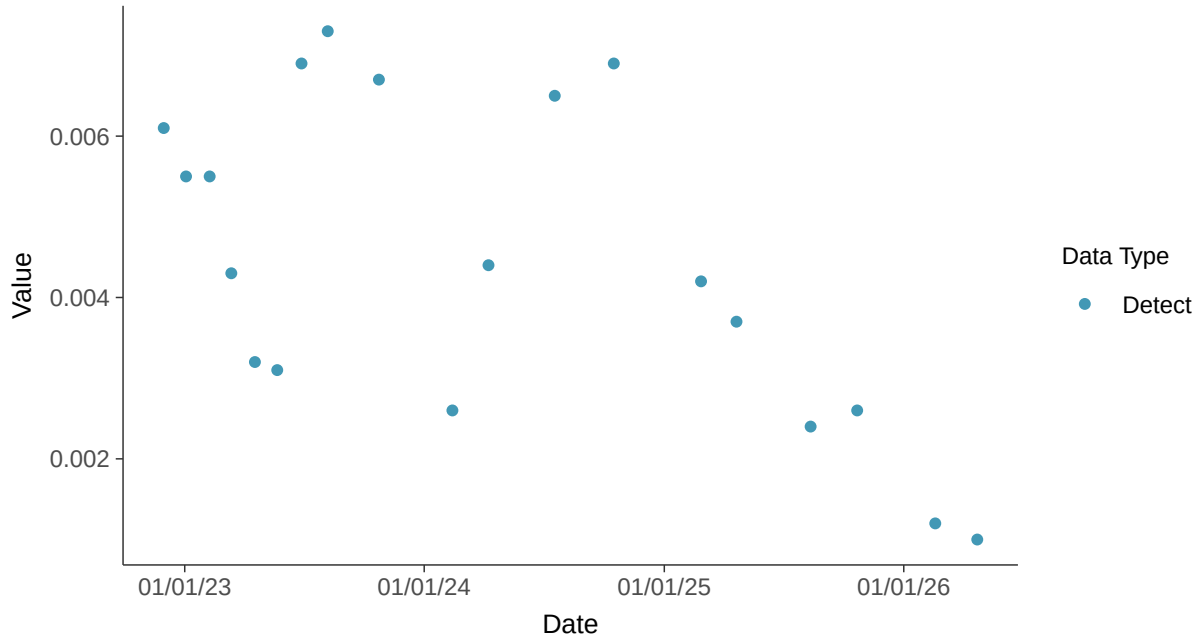


Appendix IV: Arsenic, MW-19

ID: 29_1_4_102

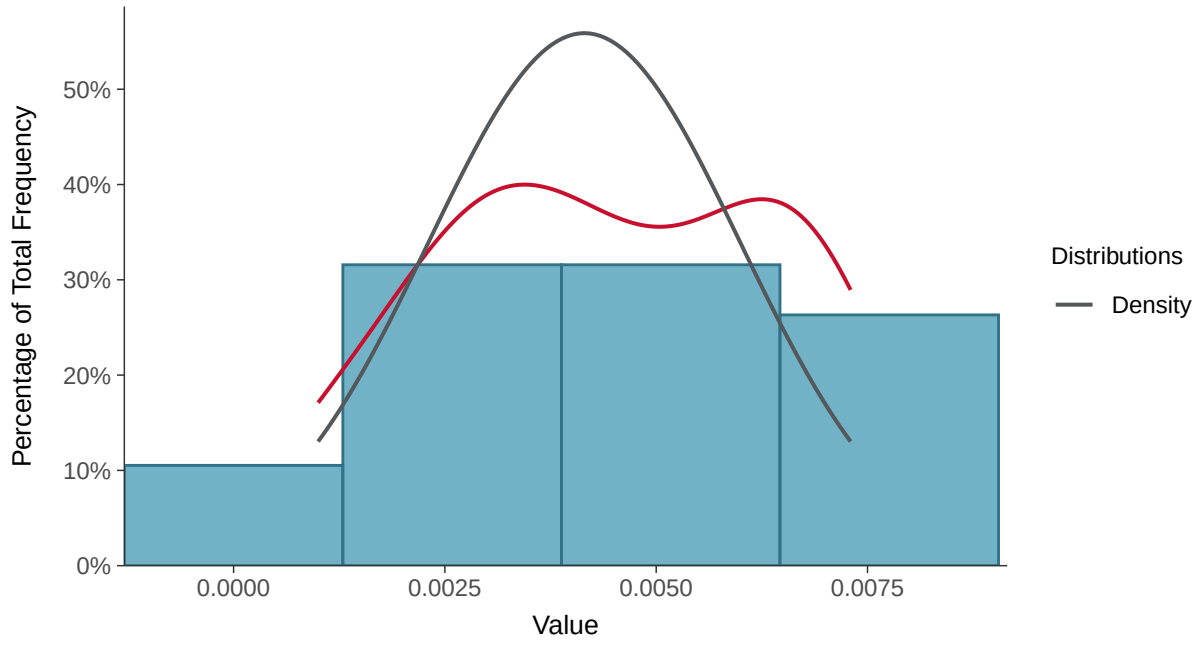
Scatter Plot

Arsenic, MW-19 (mg/L)



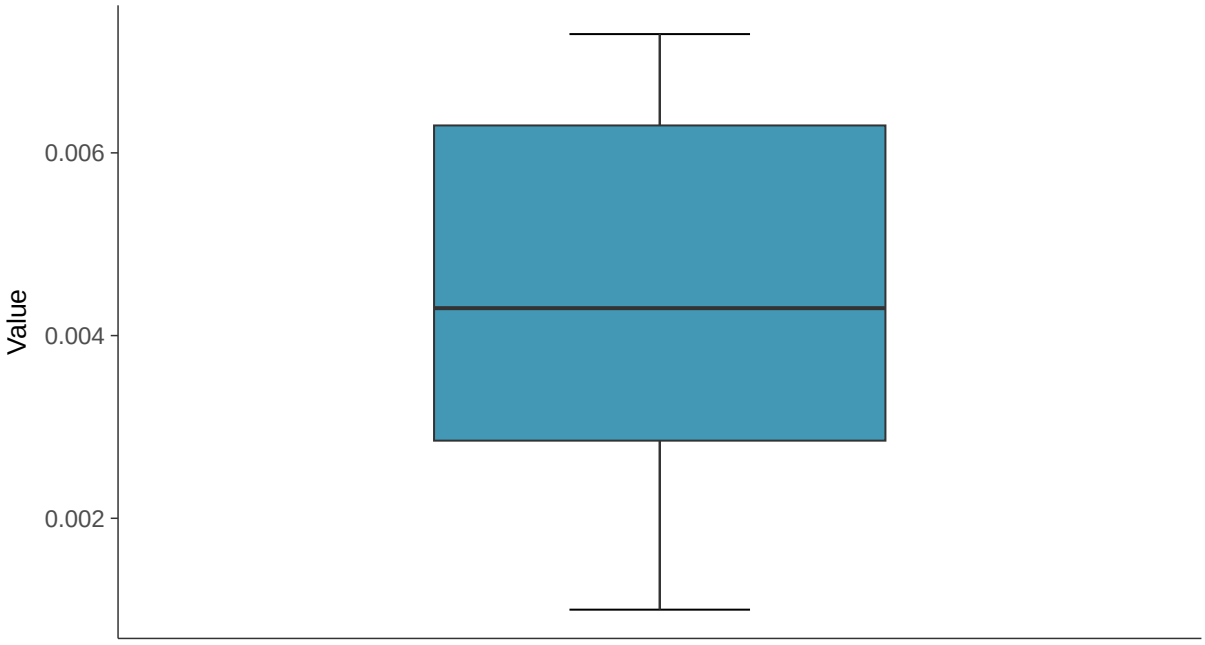
Histogram

Arsenic, MW-19 (mg/L)



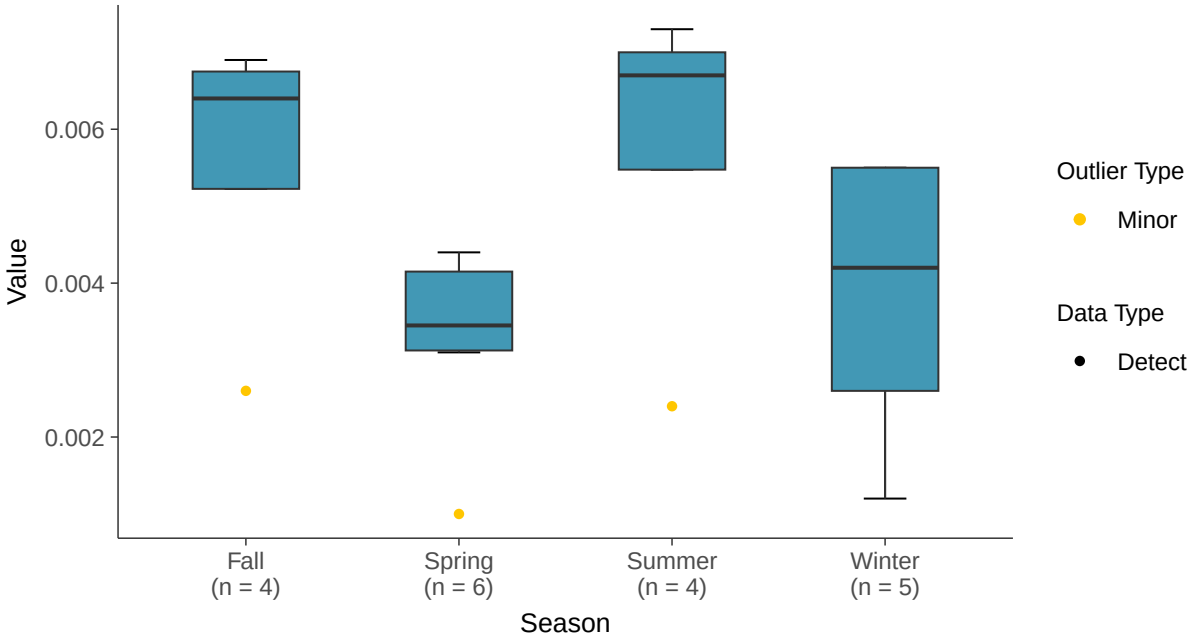
Boxplot

Arsenic, MW-19 (mg/L)



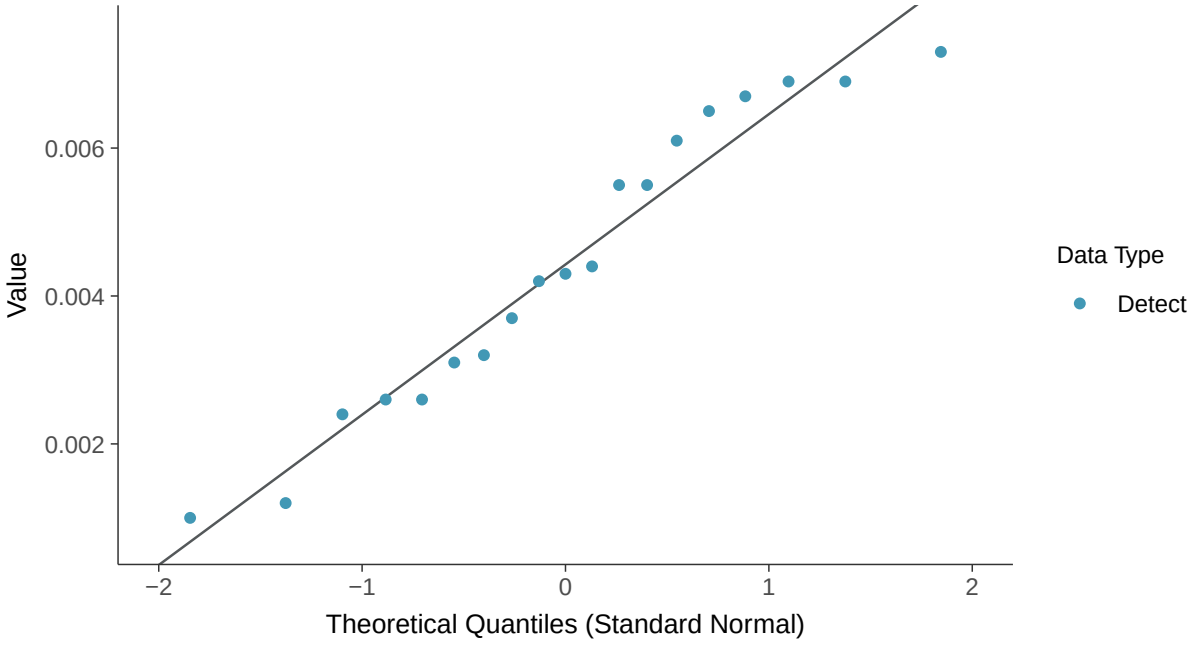
Boxplot by Season

Arsenic, MW-19 (mg/L)



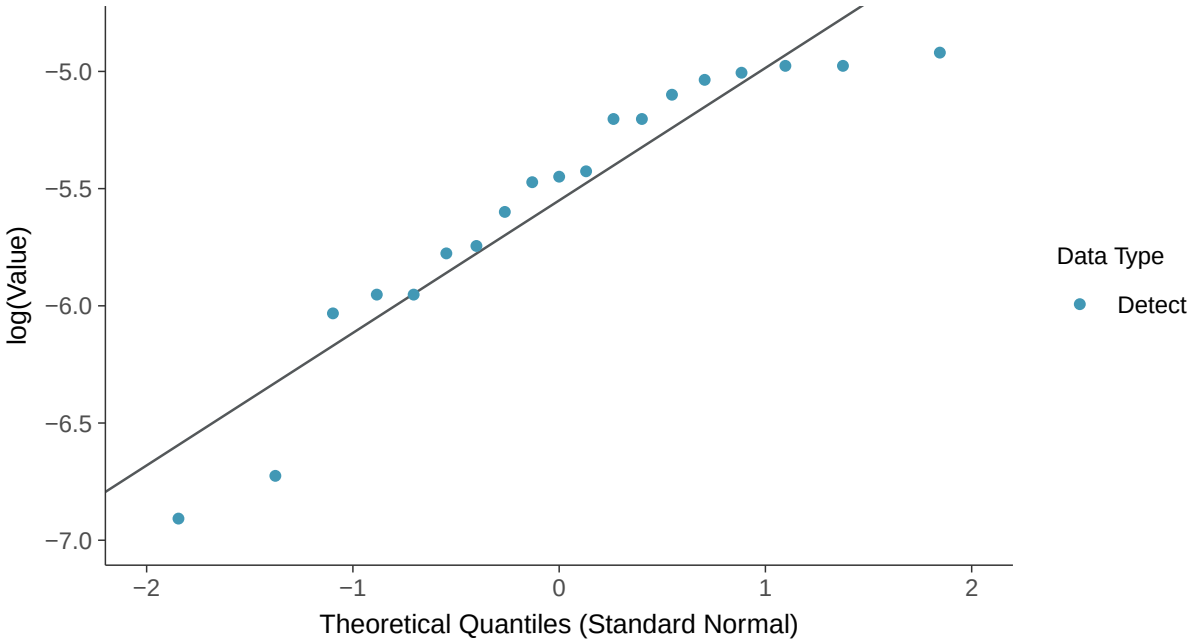
Normal Q-Q plot

Arsenic, MW-19 (mg/L)



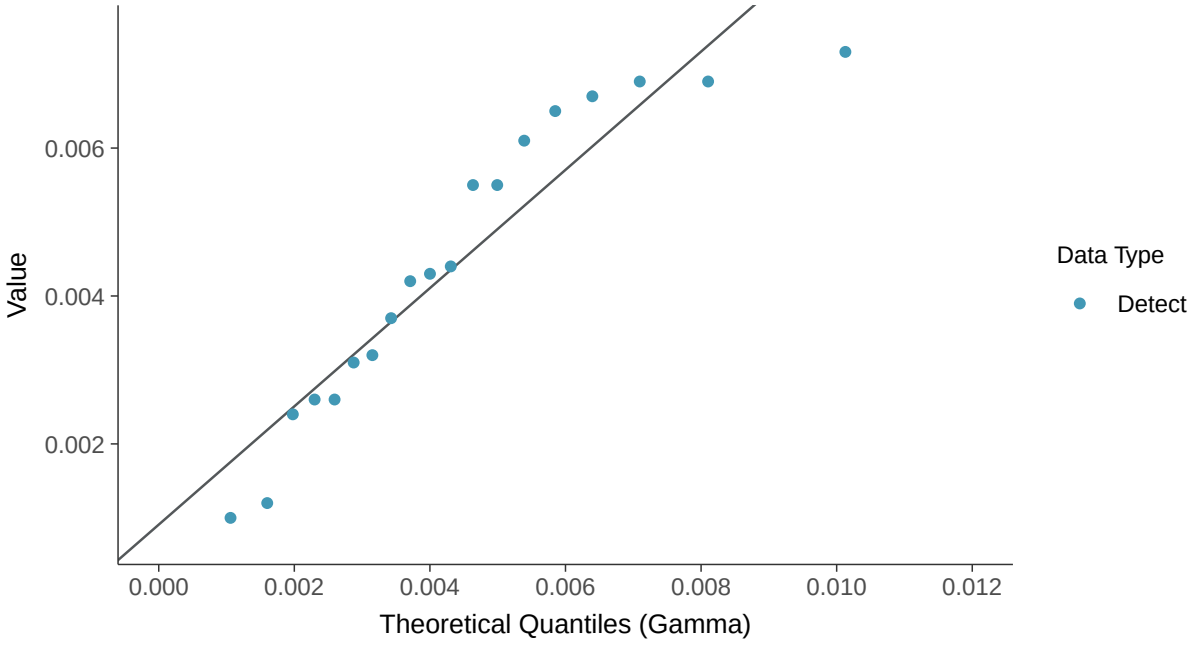
Lognormal Q-Q plot

Arsenic, MW-19 (mg/L)



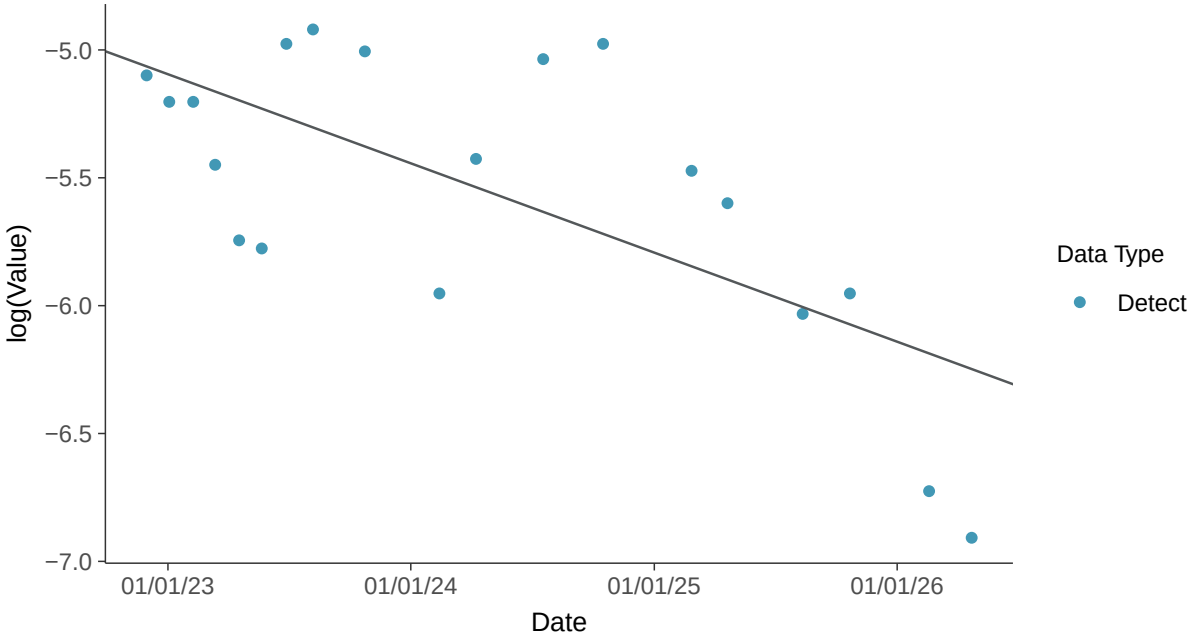
Gamma Q-Q plot

Arsenic, MW-19 (mg/L)



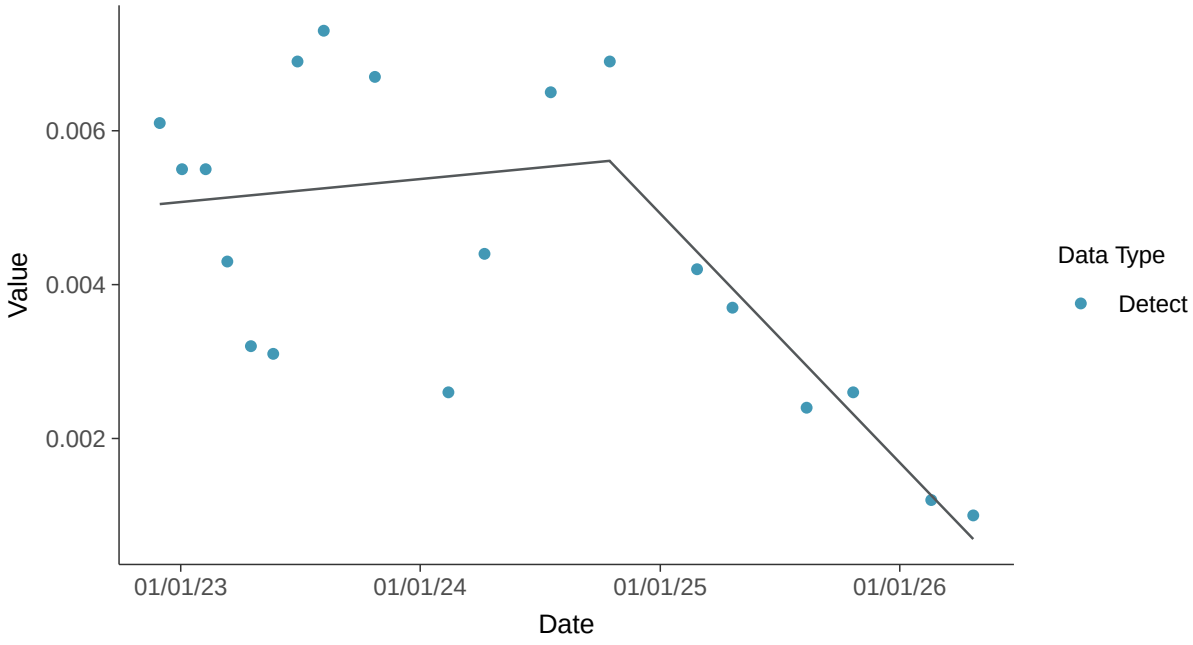
Trend Regression: Lognormal MLE

Arsenic, MW-19 (mg/L)



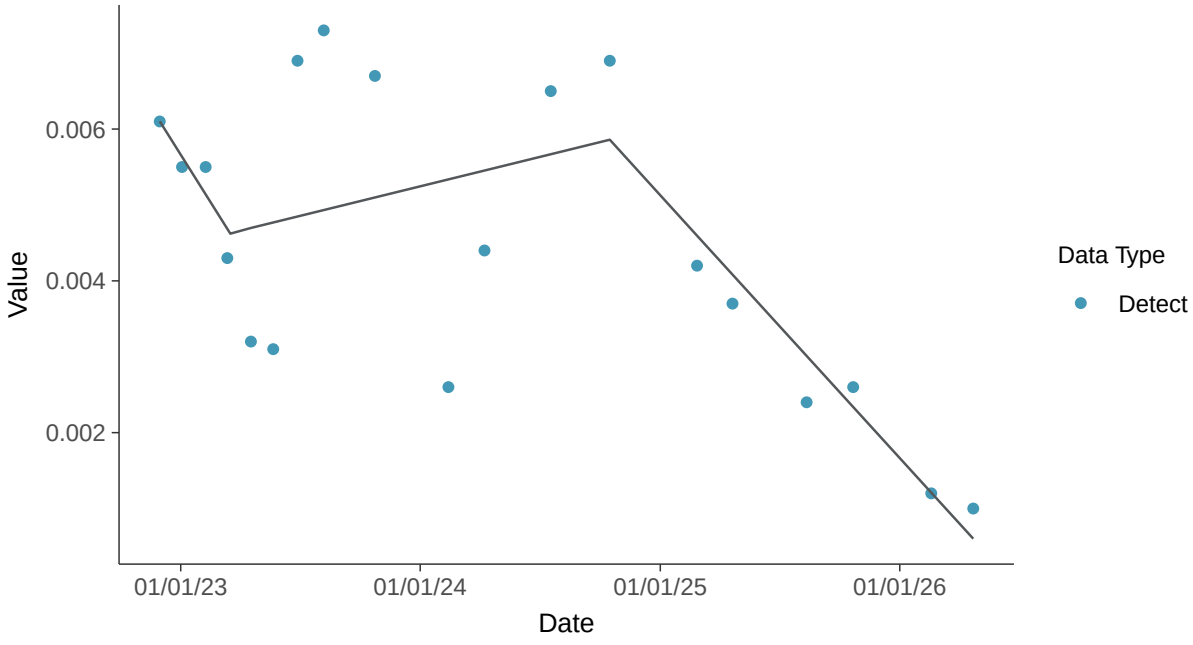
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-19 (mg/L)

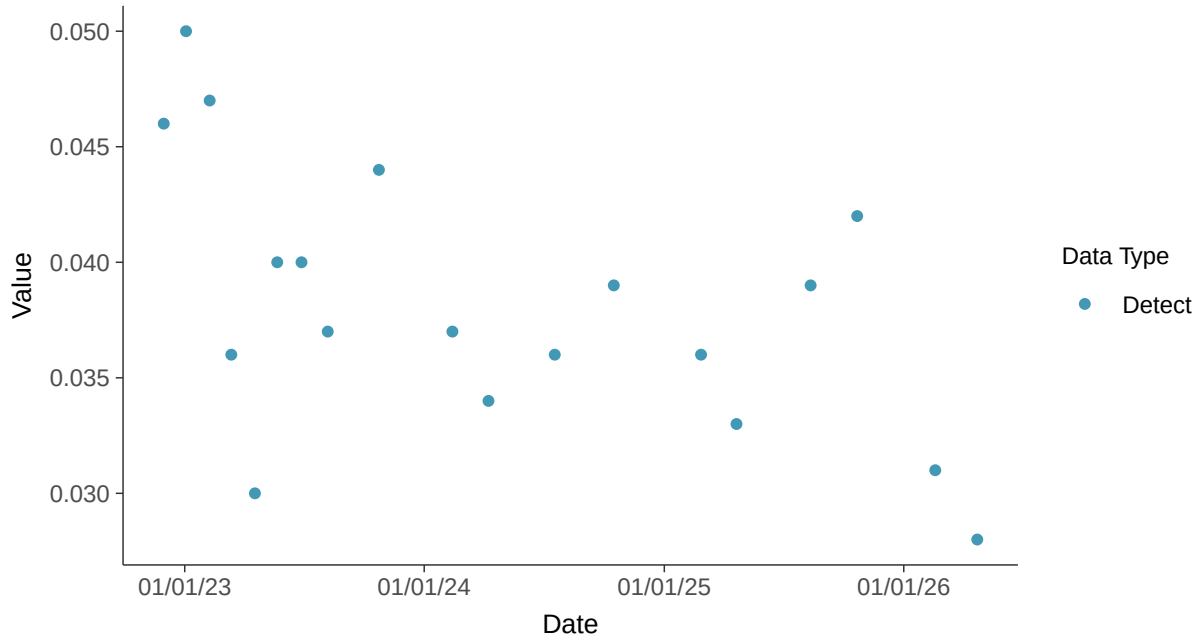


Appendix IV: Barium, MW-19

ID: 29_1_4_103

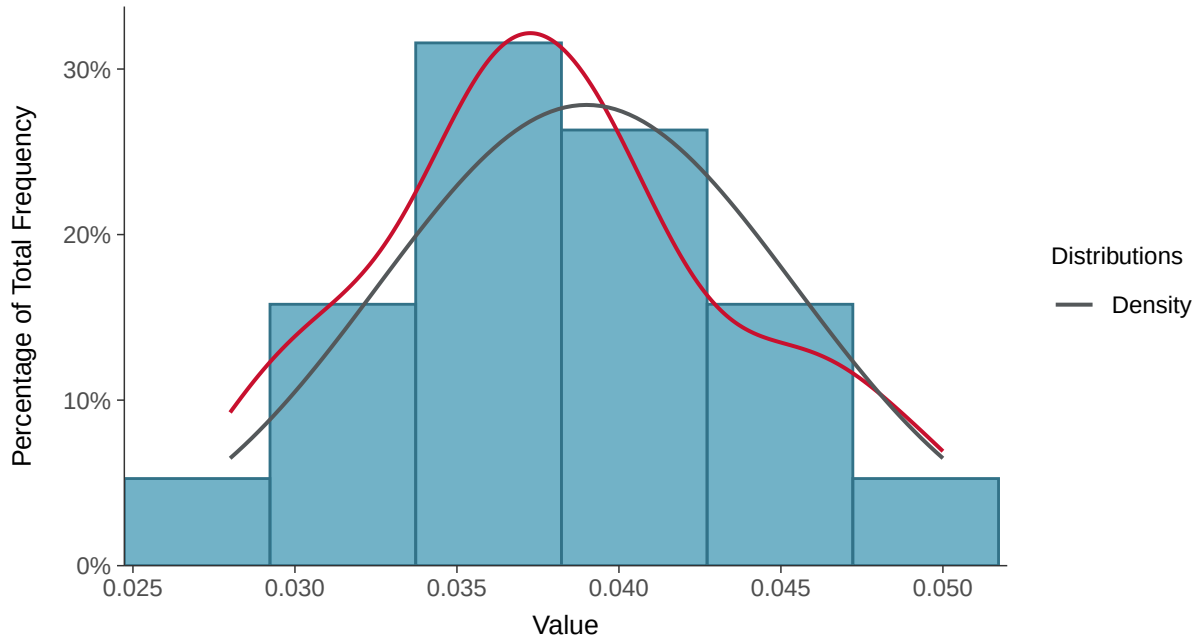
Scatter Plot

Barium, MW-19 (mg/L)



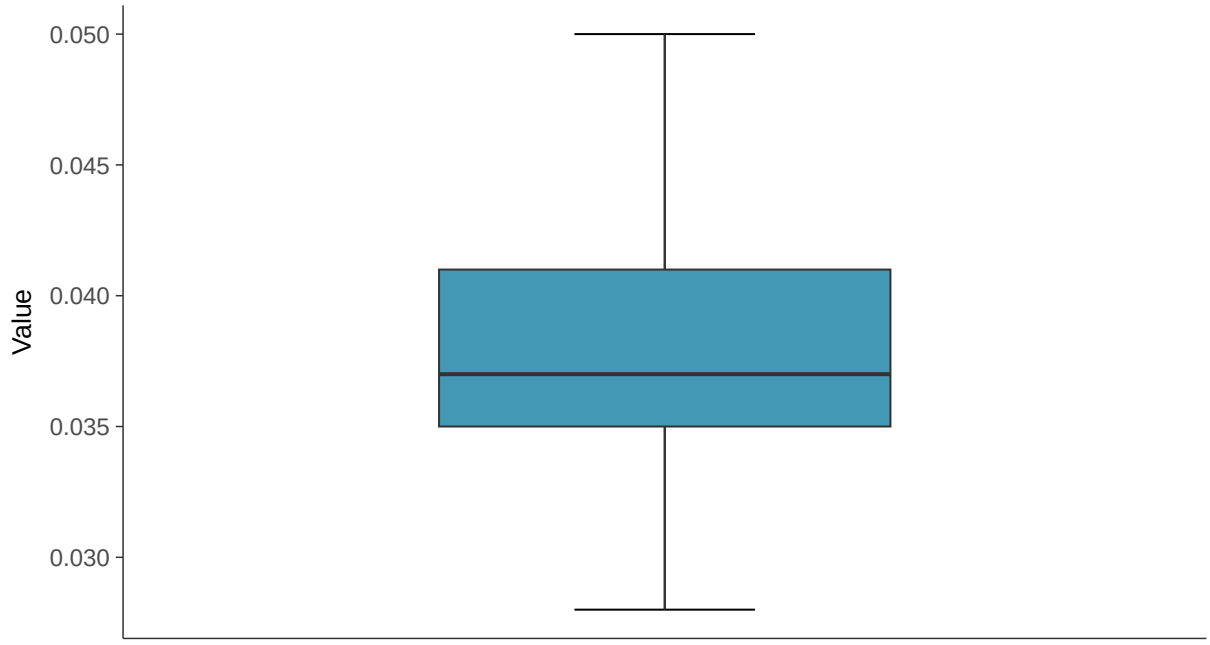
Histogram

Barium, MW-19 (mg/L)



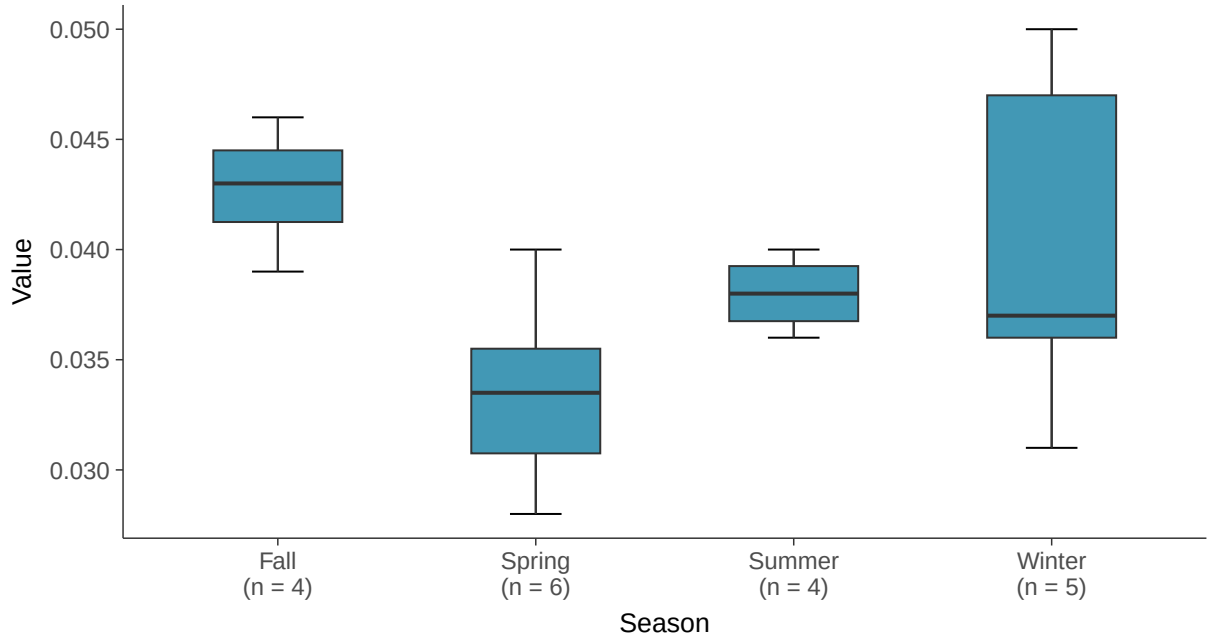
Boxplot

Barium, MW-19 (mg/L)



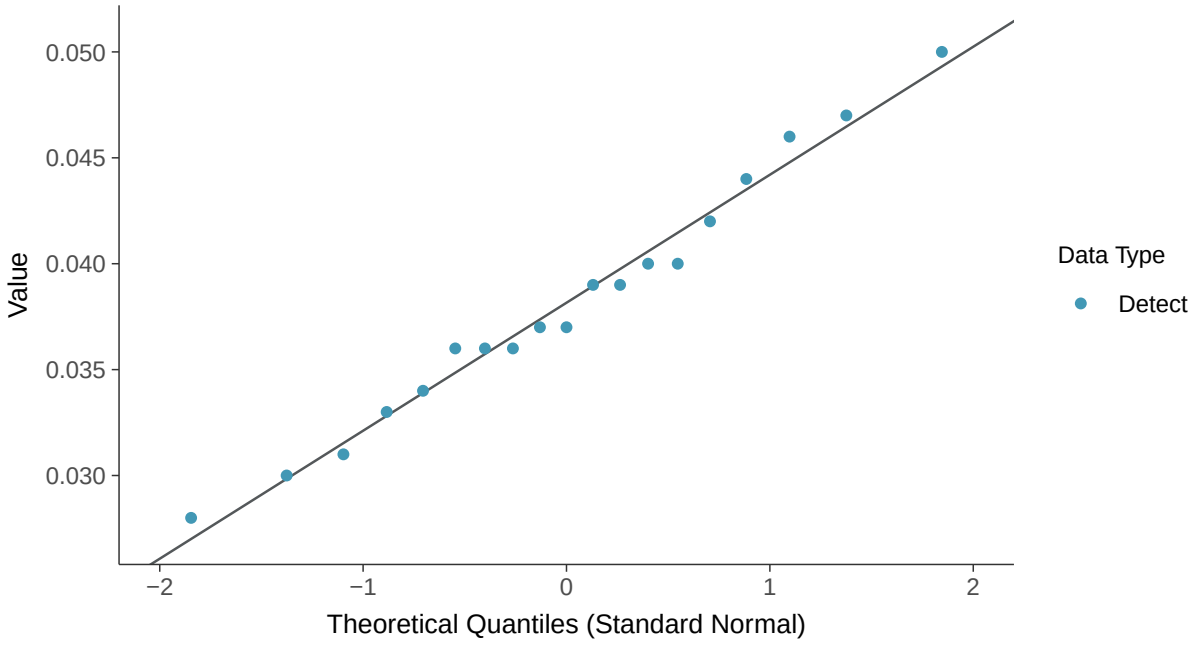
Boxplot by Season

Barium, MW-19 (mg/L)



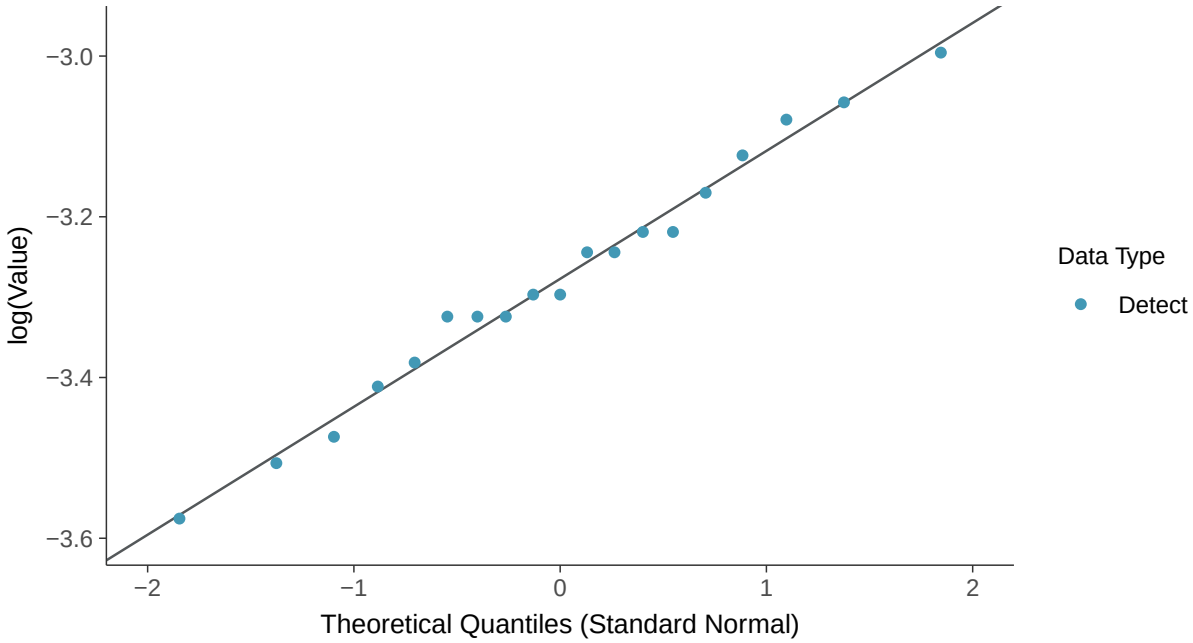
Normal Q-Q plot

Barium, MW-19 (mg/L)



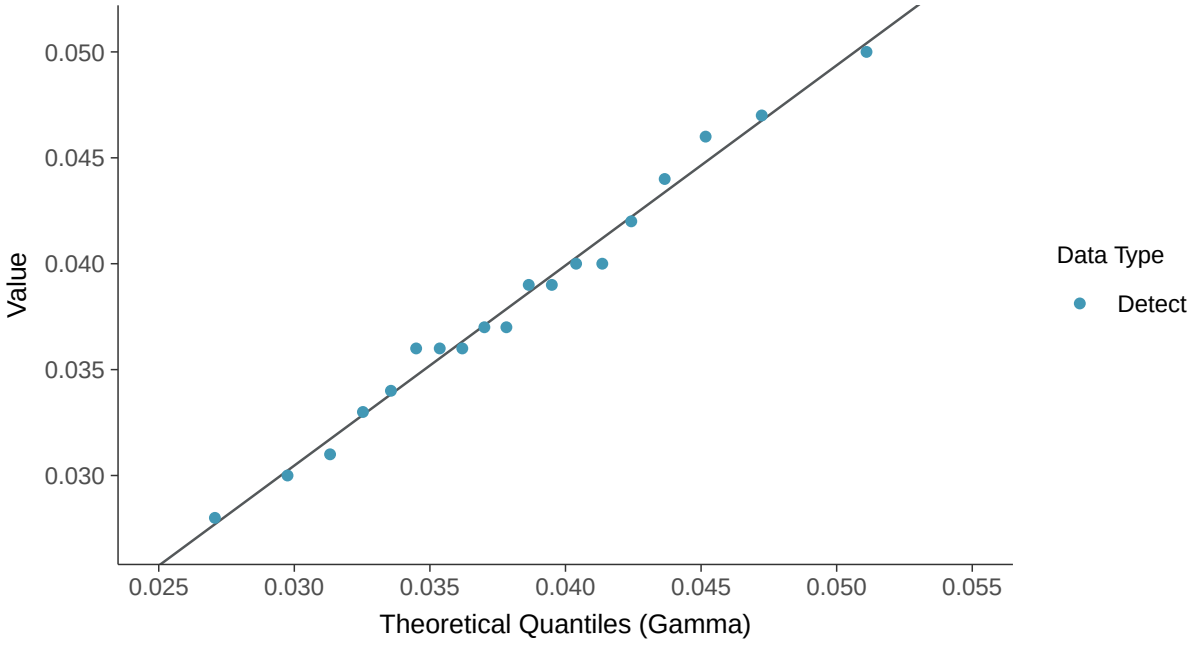
Lognormal Q-Q plot

Barium, MW-19 (mg/L)



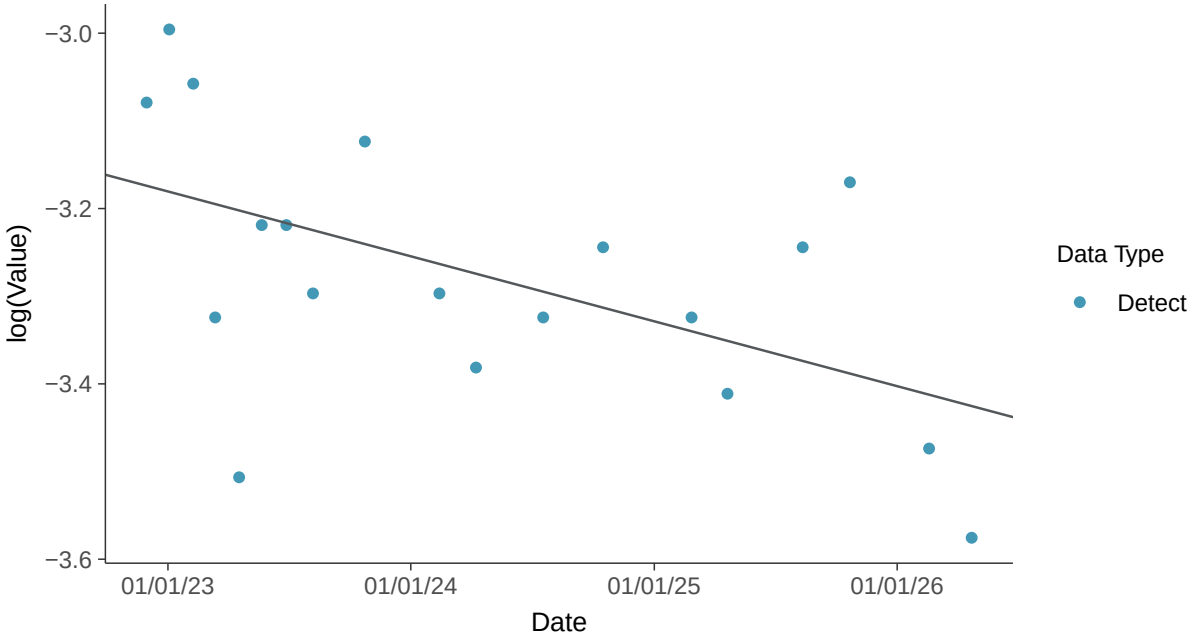
Gamma Q-Q plot

Barium, MW-19 (mg/L)



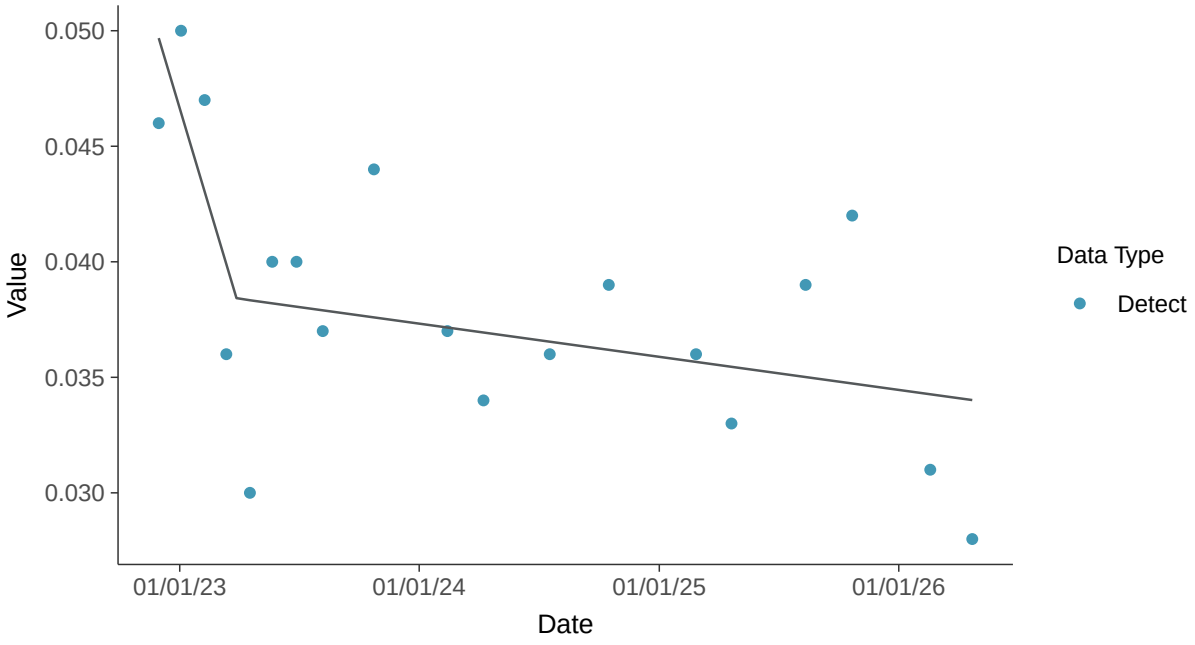
Trend Regression: Lognormal MLE

Barium, MW-19 (mg/L)



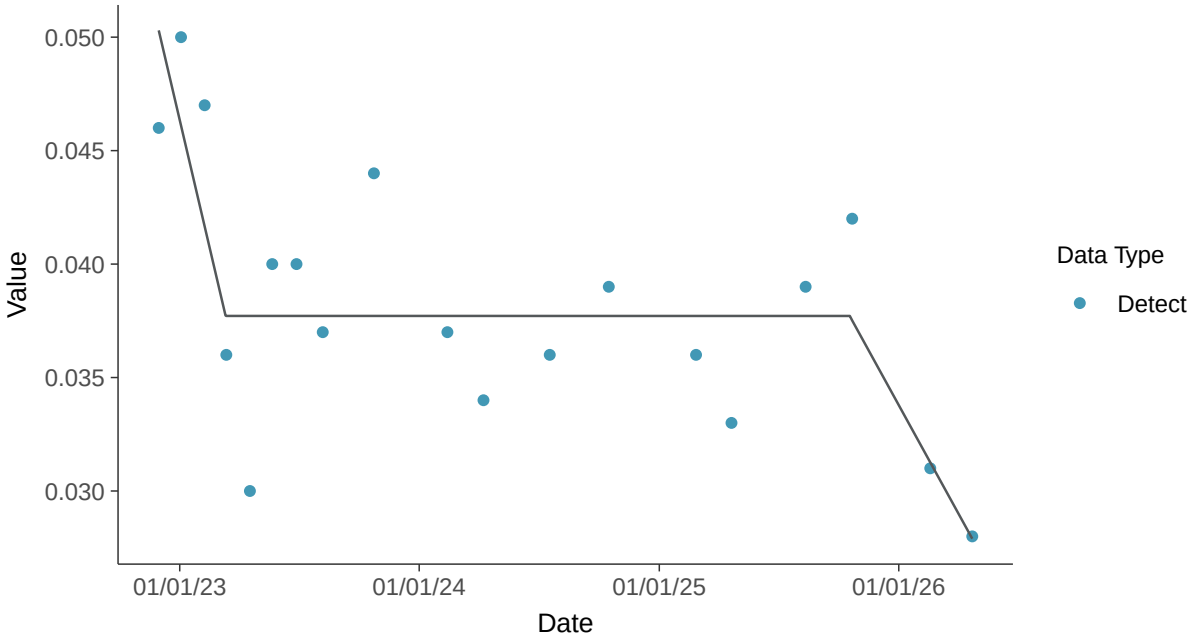
Trend Regression: Piecewise Linear-Linear

Barium, MW-19 (mg/L)



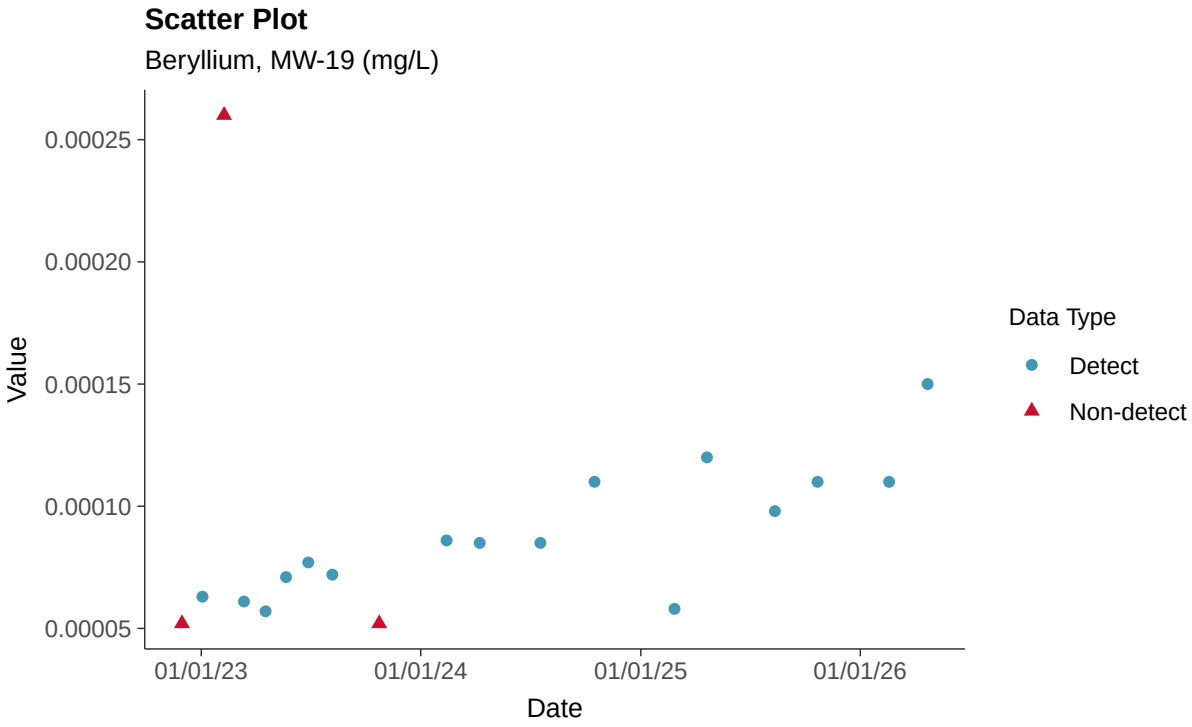
Trend Regression: Piecewise Linear-Linear-Linear

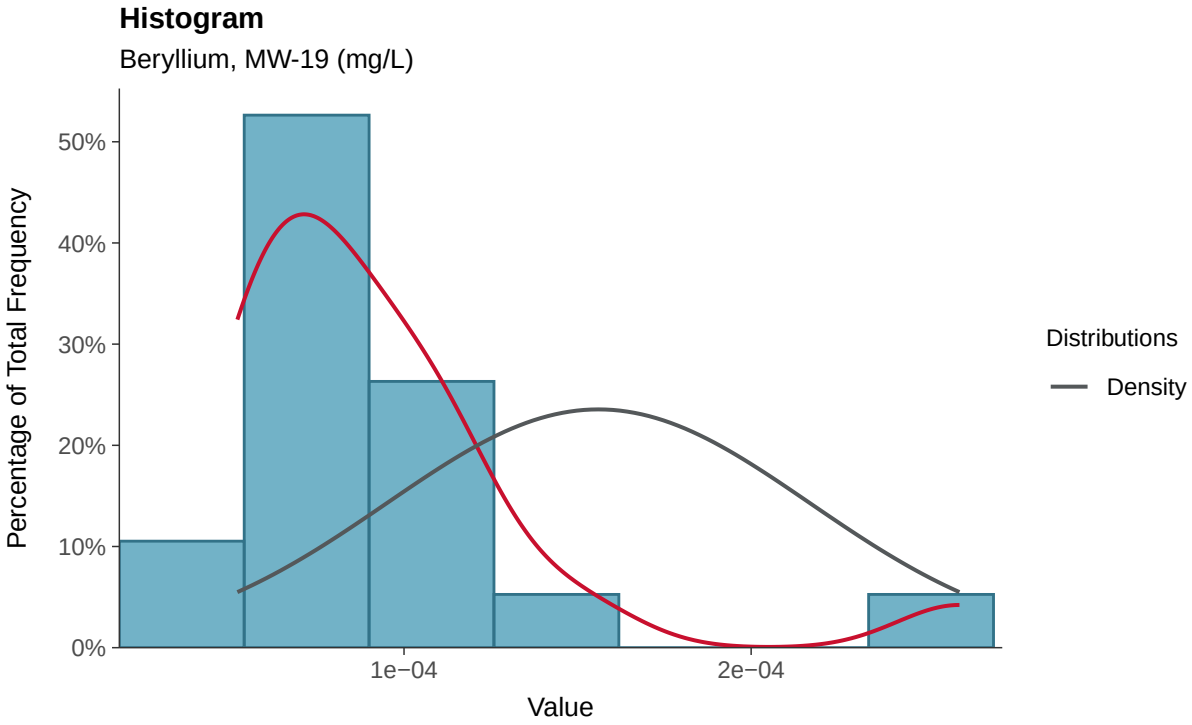
Barium, MW-19 (mg/L)



Appendix IV: Beryllium, MW-19

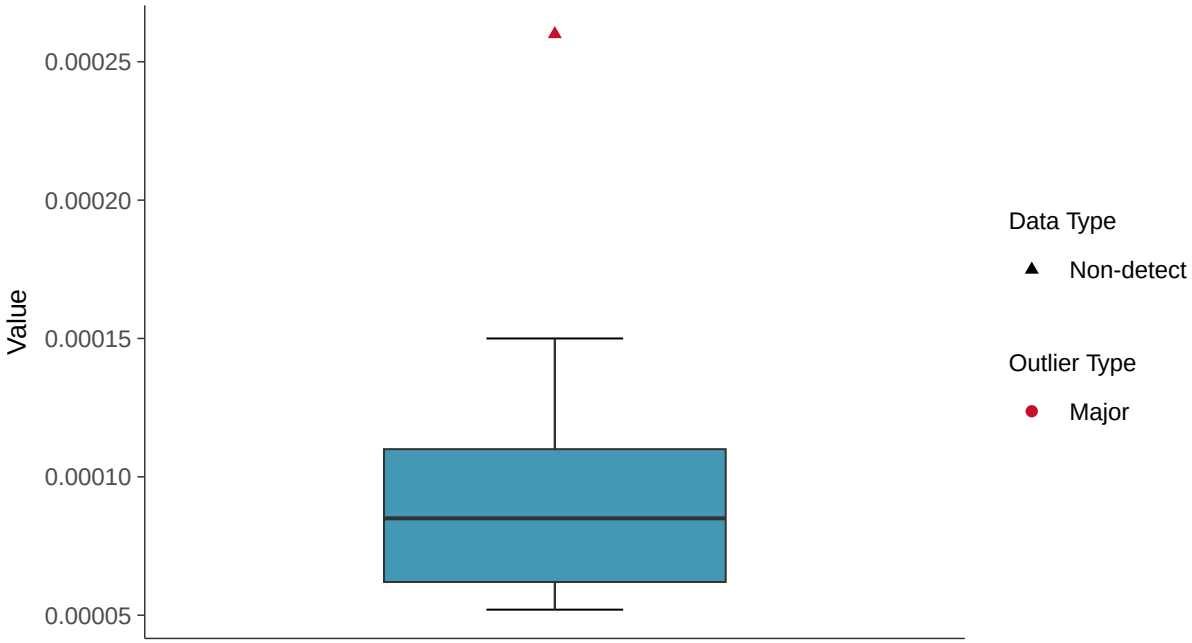
ID: 29_1_4_104





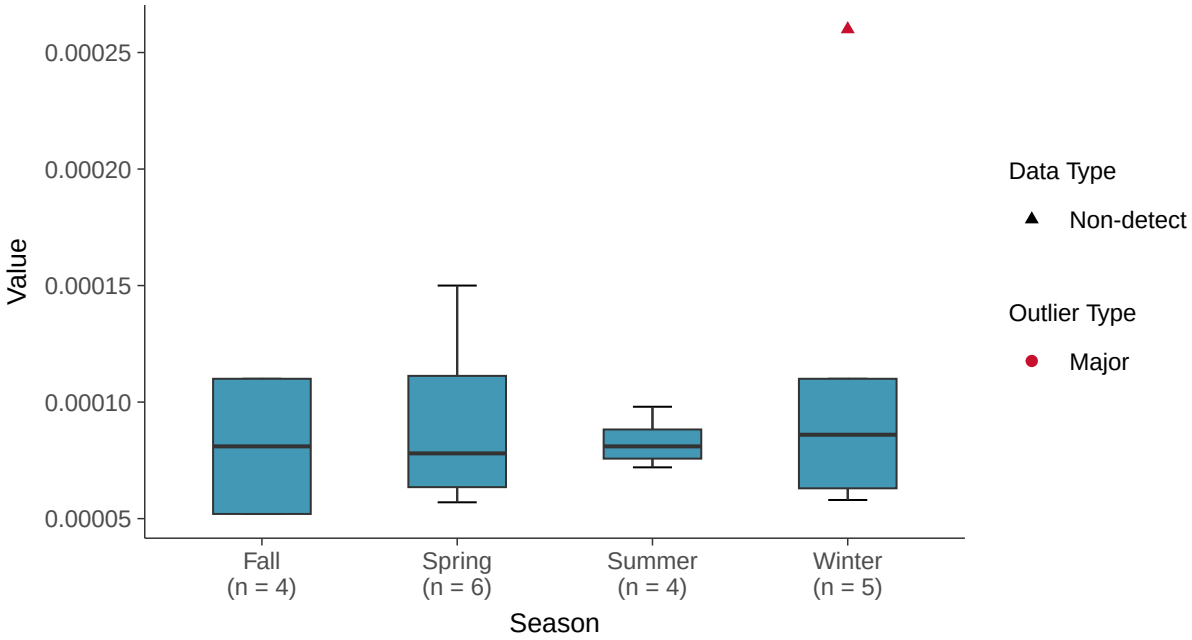
Boxplot

Beryllium, MW-19 (mg/L)



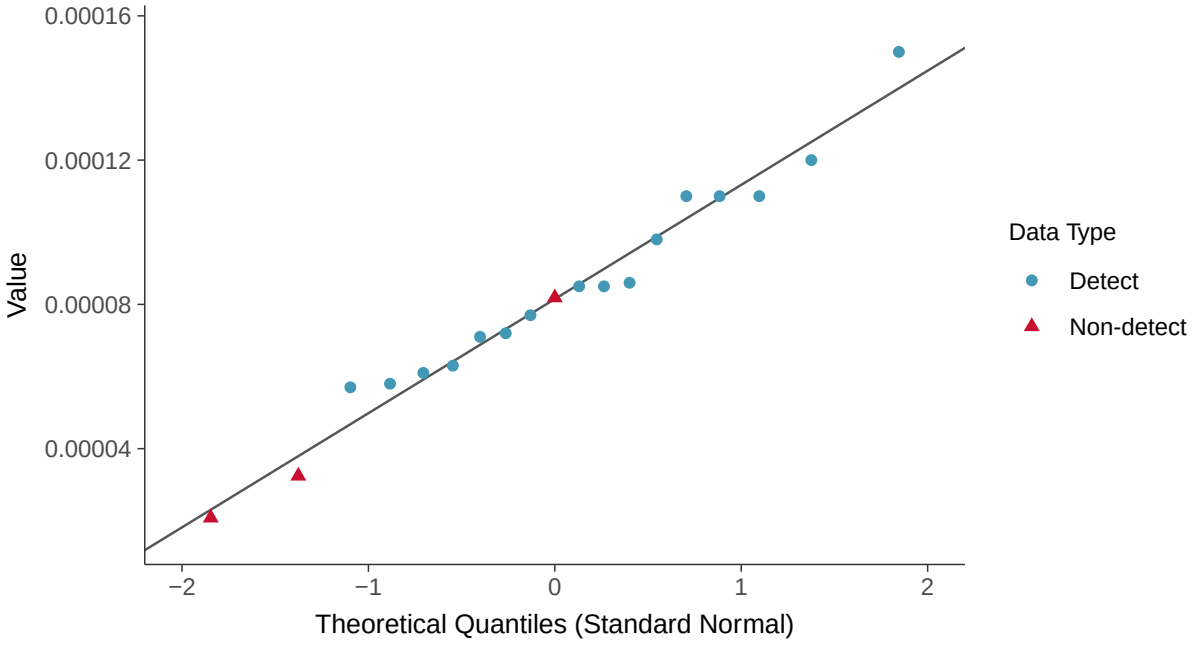
Boxplot by Season

Beryllium, MW-19 (mg/L)



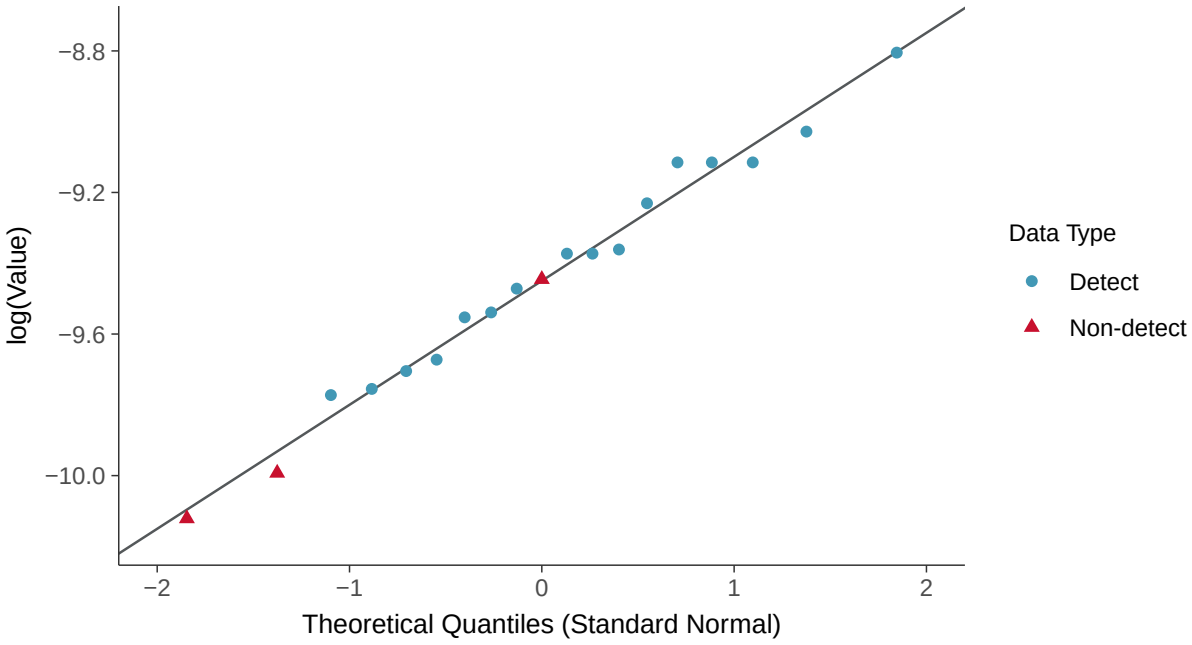
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



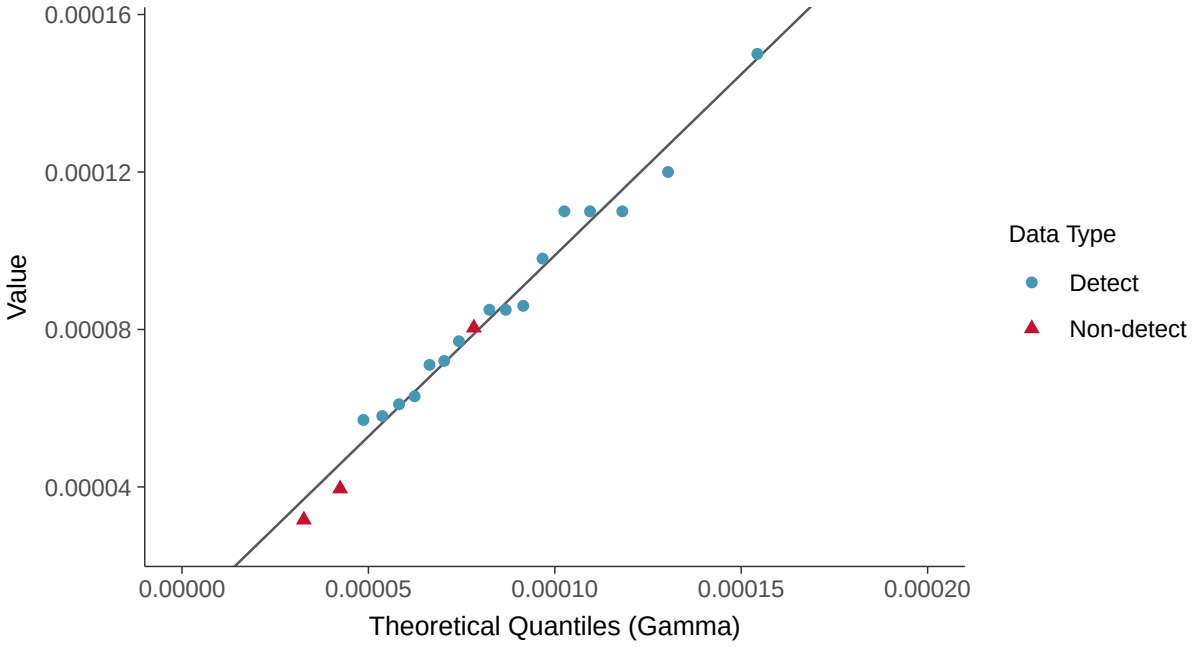
Lognormal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



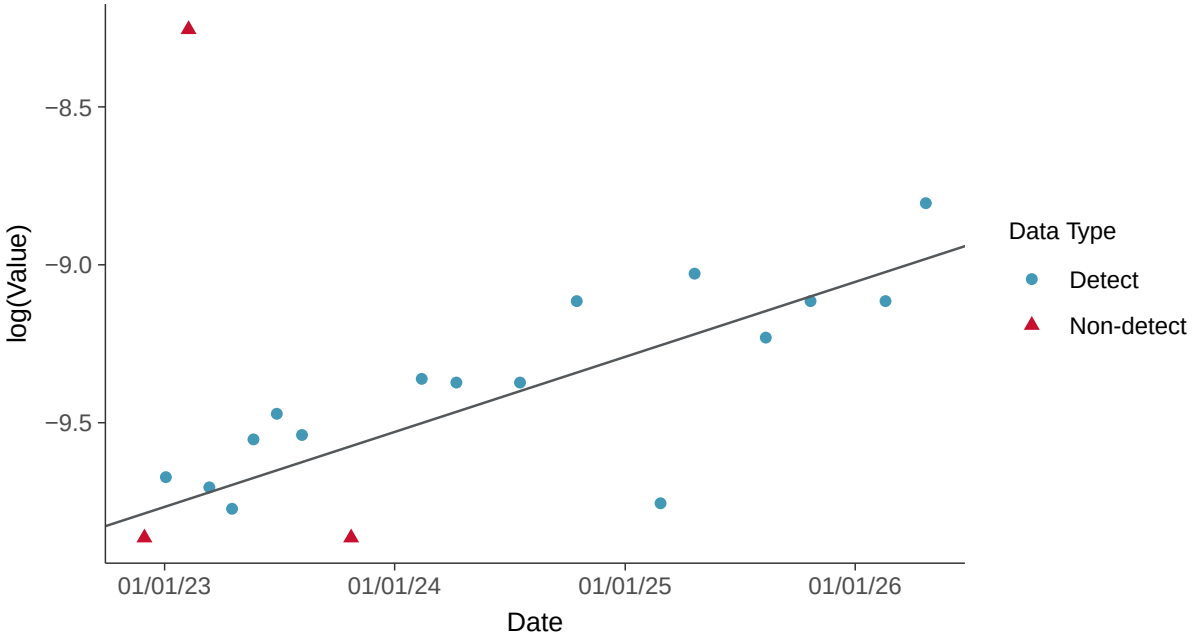
Gamma Q-Q plot using ROS Imputed Estimates

Beryllium, MW-19 (mg/L)



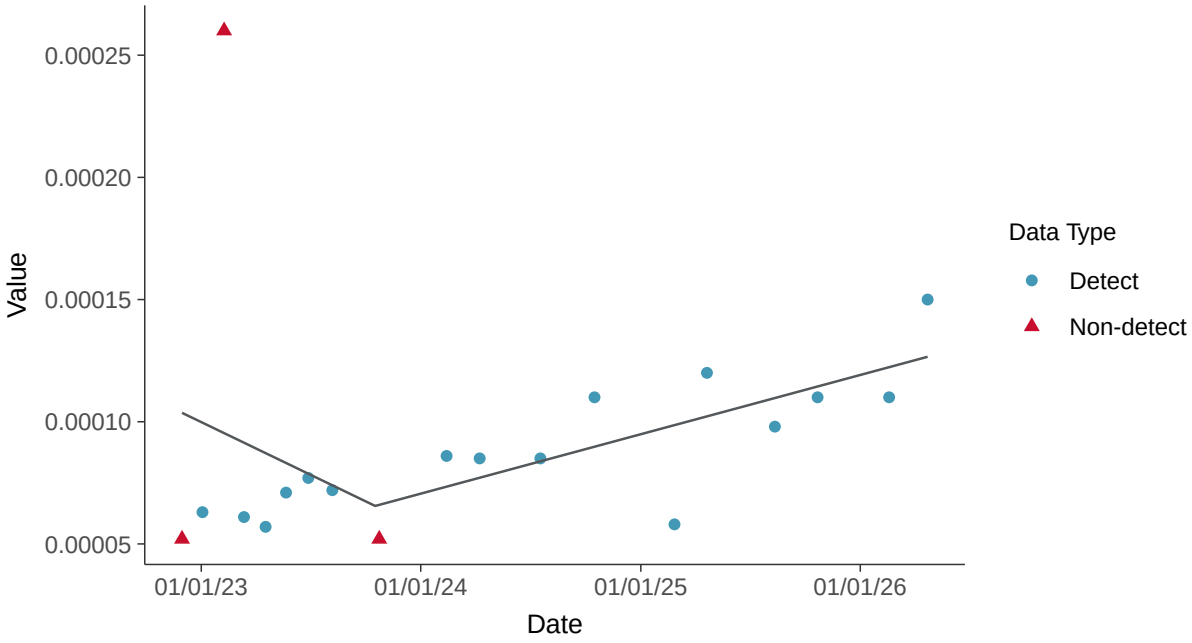
Trend Regression: Lognormal MLE

Beryllium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear

Beryllium, MW-19 (mg/L)

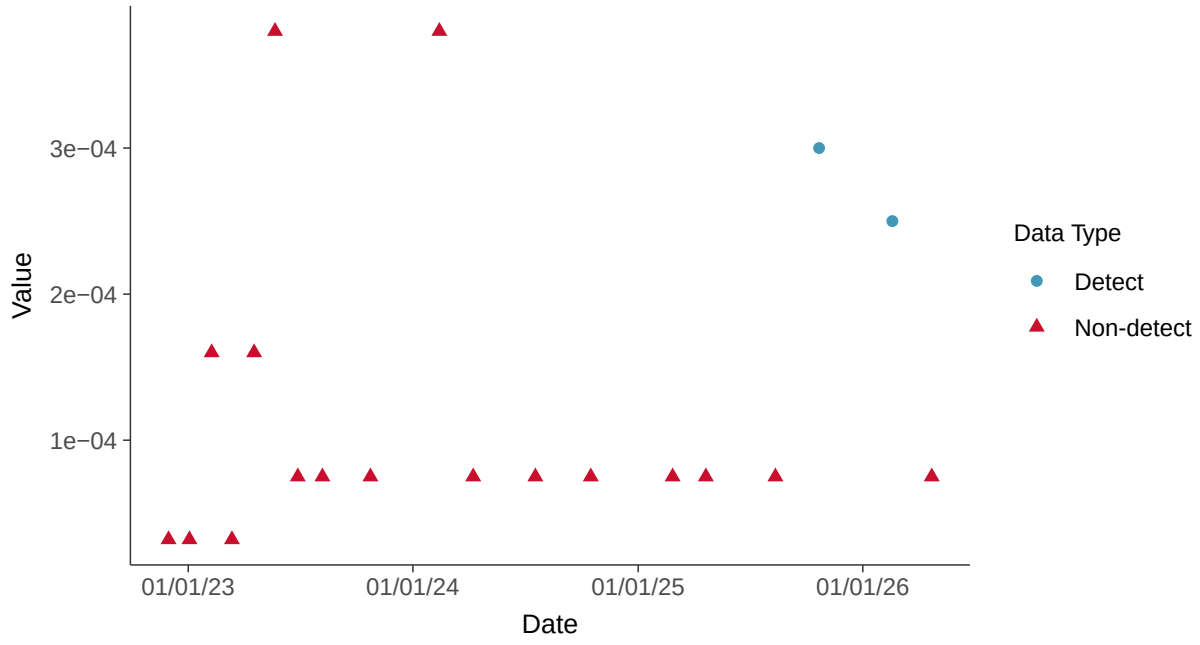


Appendix IV: Cadmium, MW-19

ID: 29_1_4_106

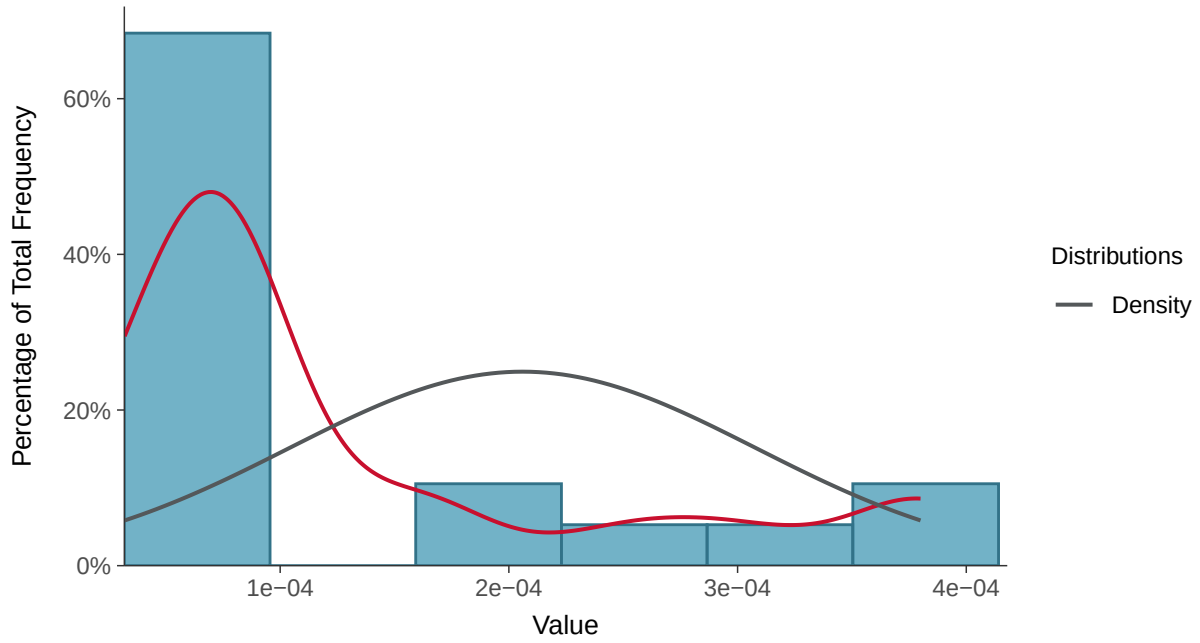
Scatter Plot

Cadmium, MW-19 (mg/L)



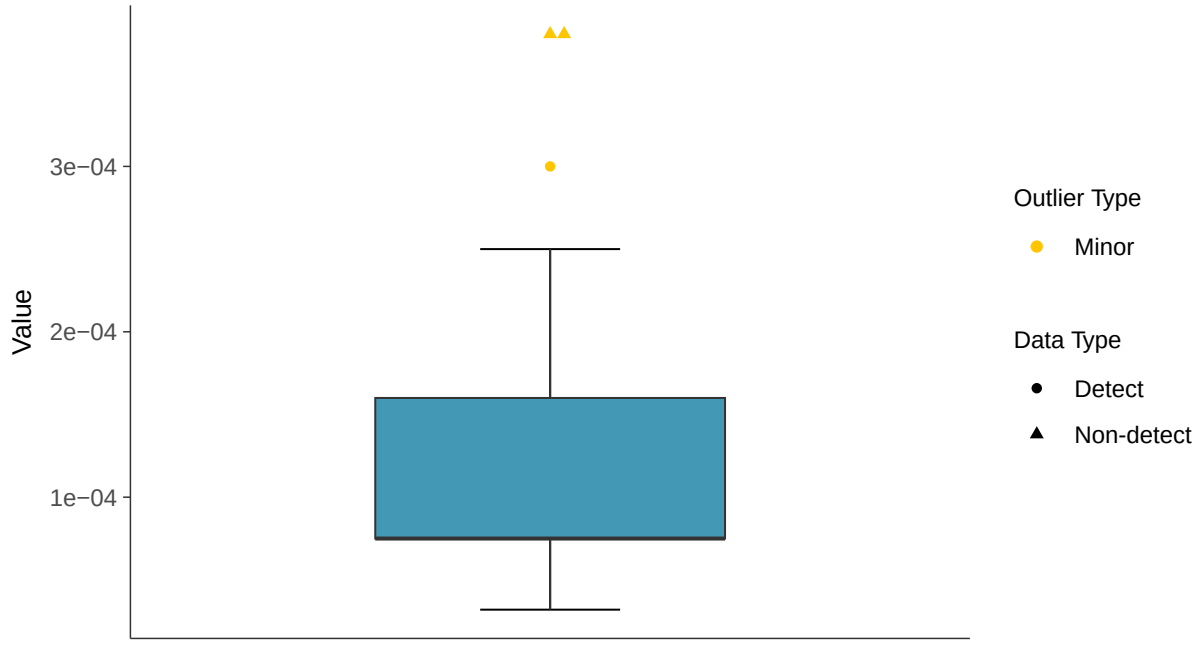
Histogram

Cadmium, MW-19 (mg/L)



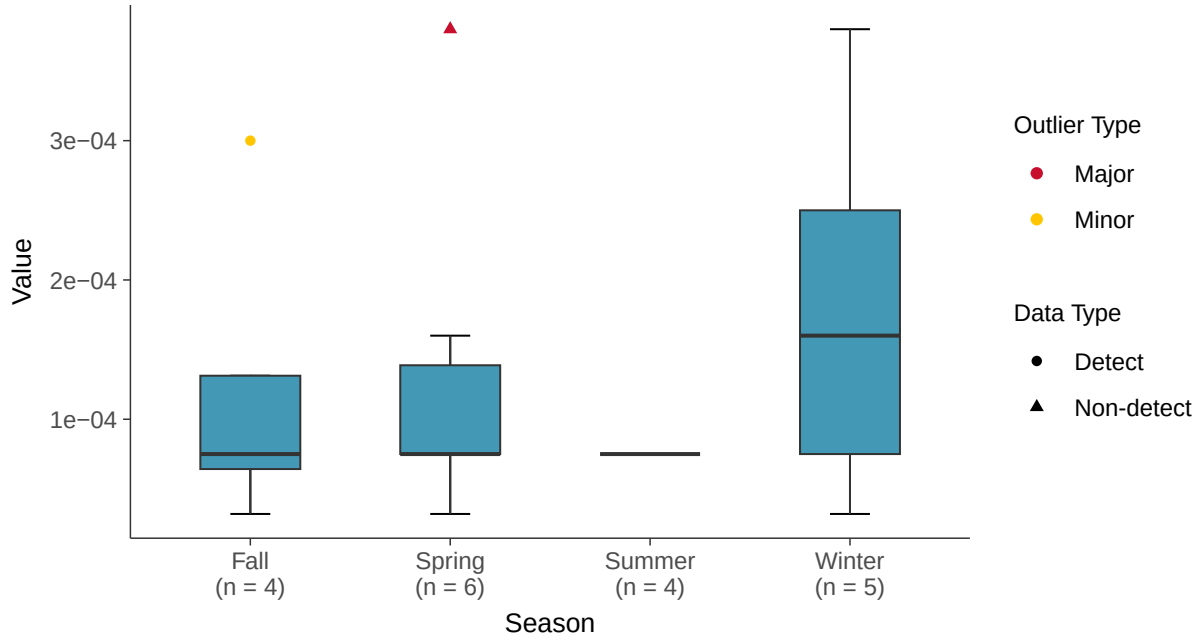
Boxplot

Cadmium, MW-19 (mg/L)



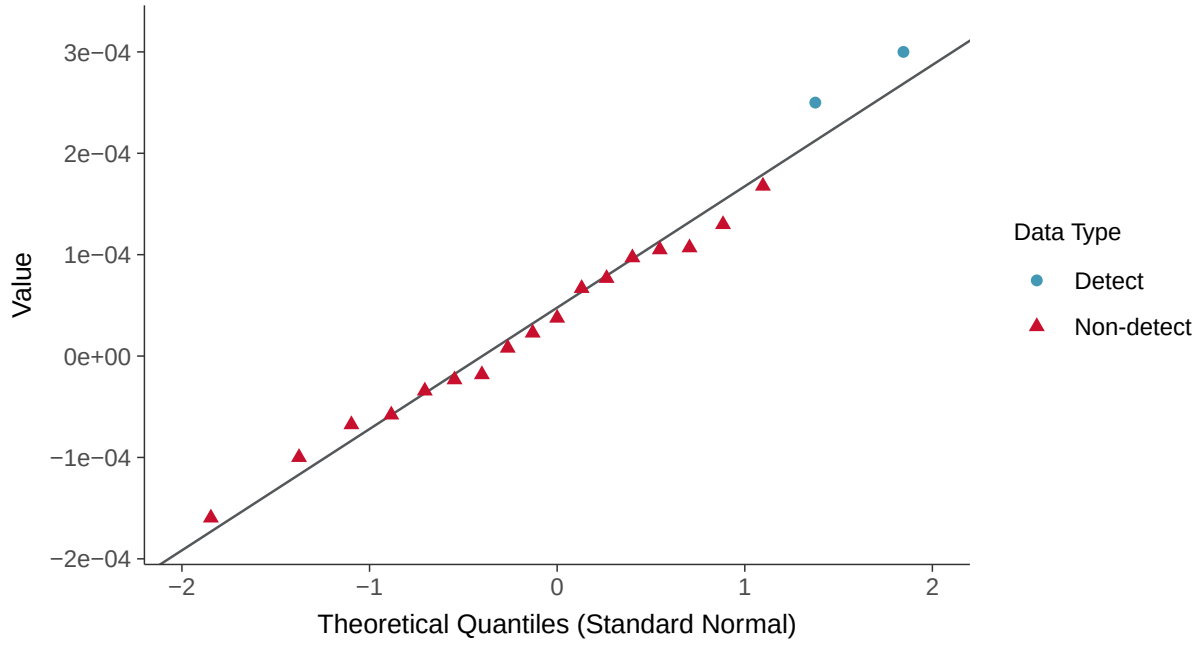
Boxplot by Season

Cadmium, MW-19 (mg/L)



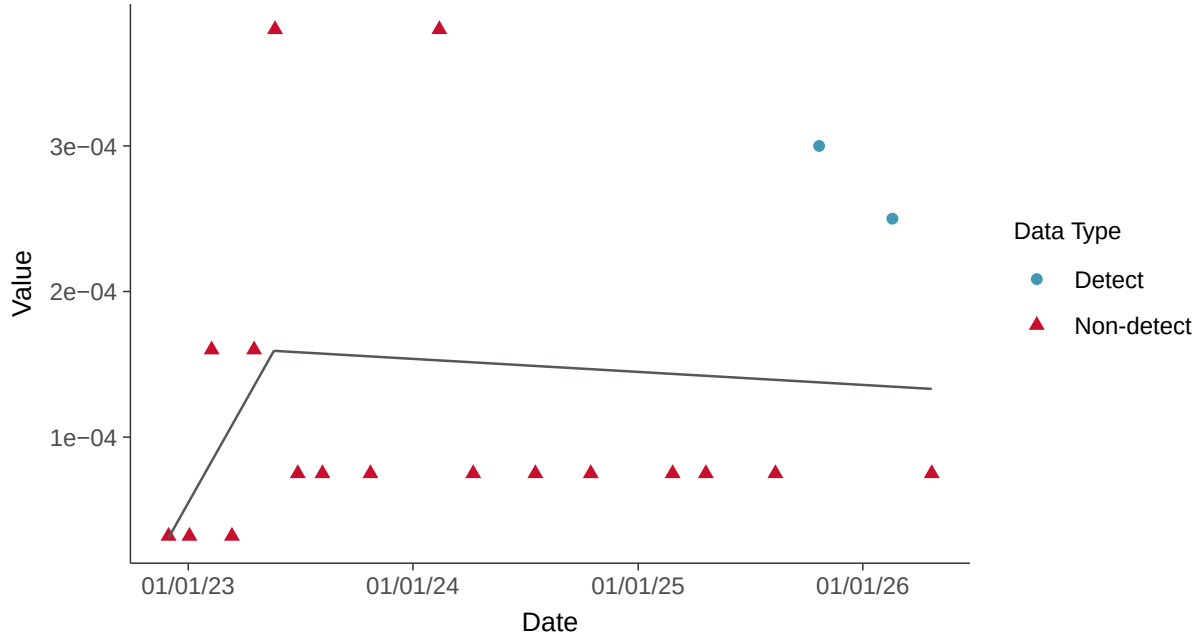
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-19 (mg/L)



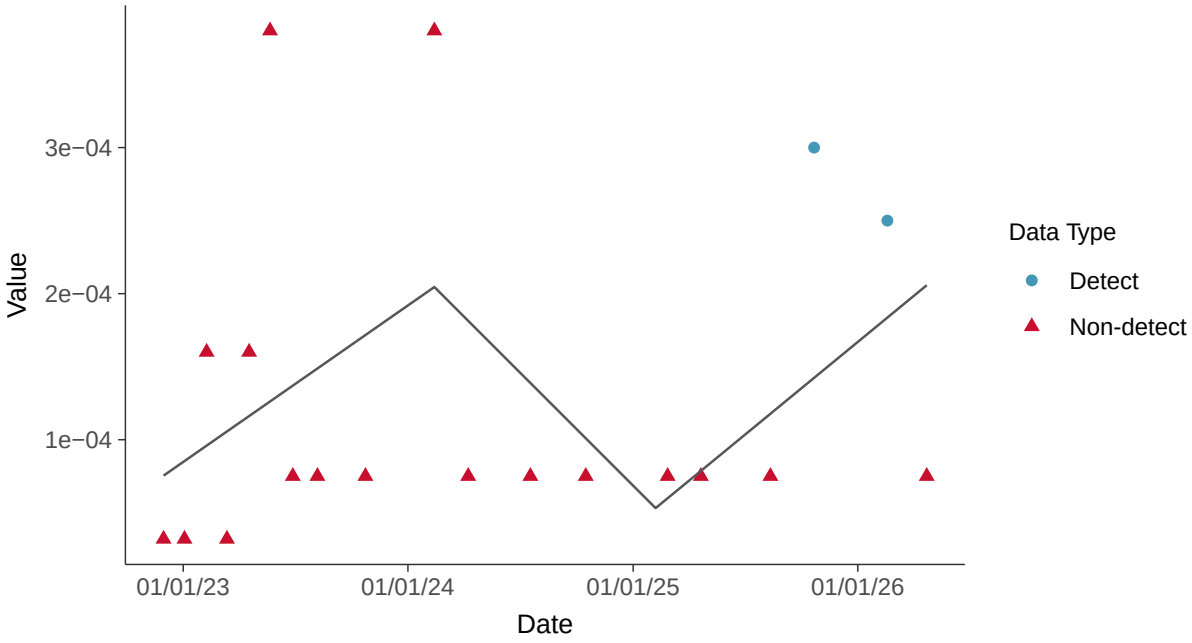
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-19 (mg/L)

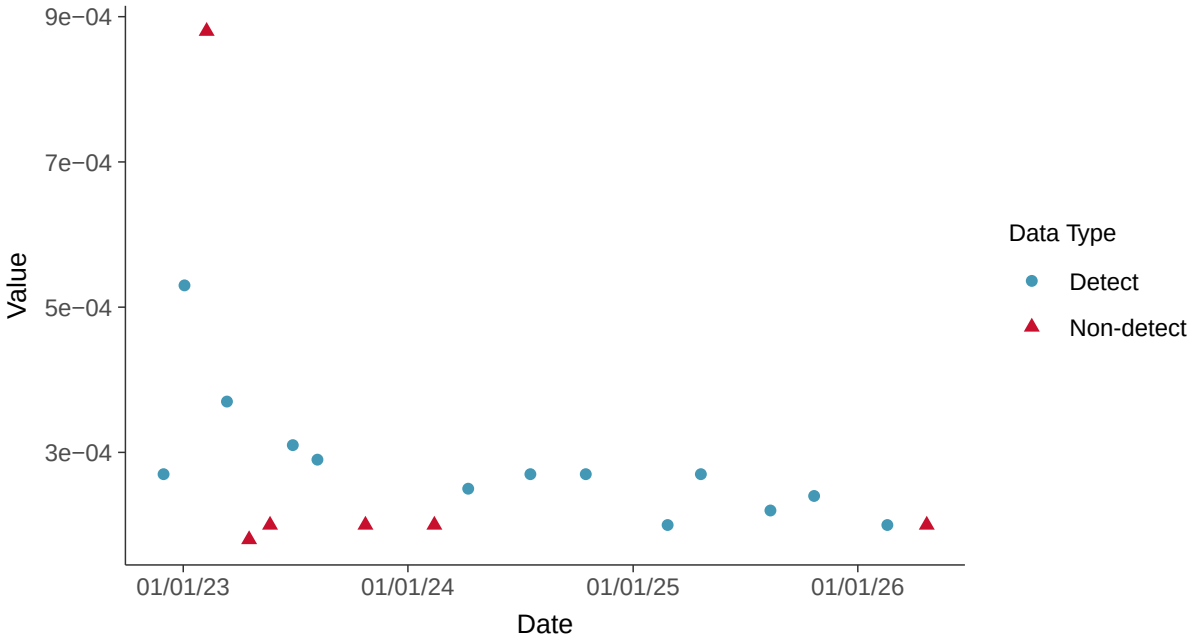


Appendix IV: Chromium, Total, MW-19

ID: 29_1_4_109

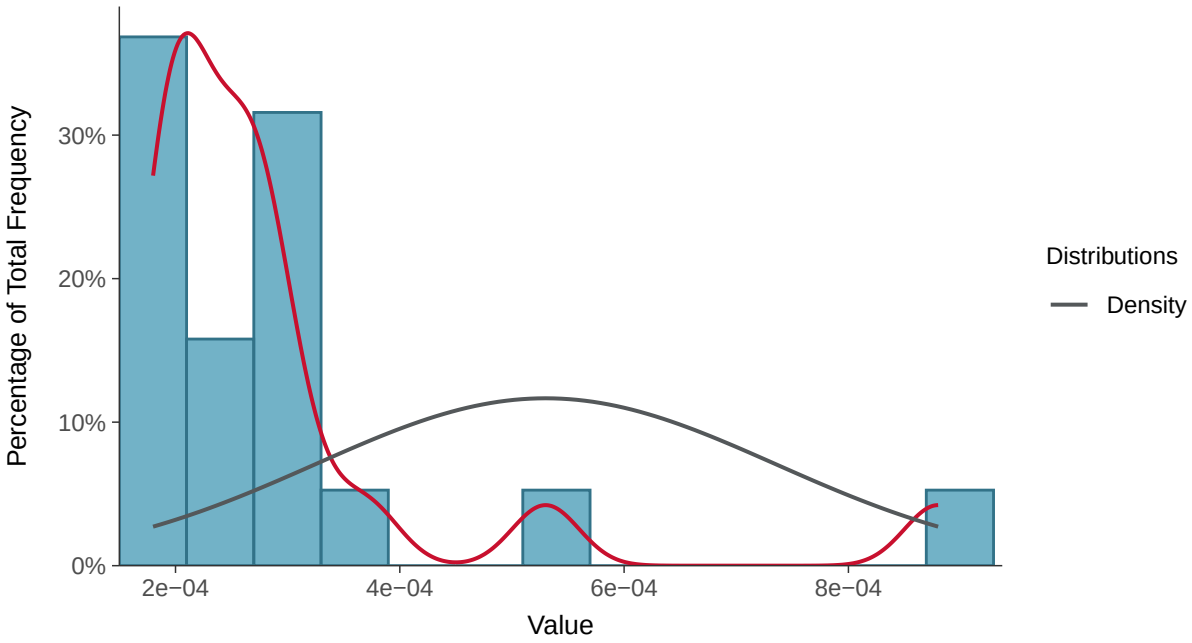
Scatter Plot

Chromium, Total, MW-19 (mg/L)



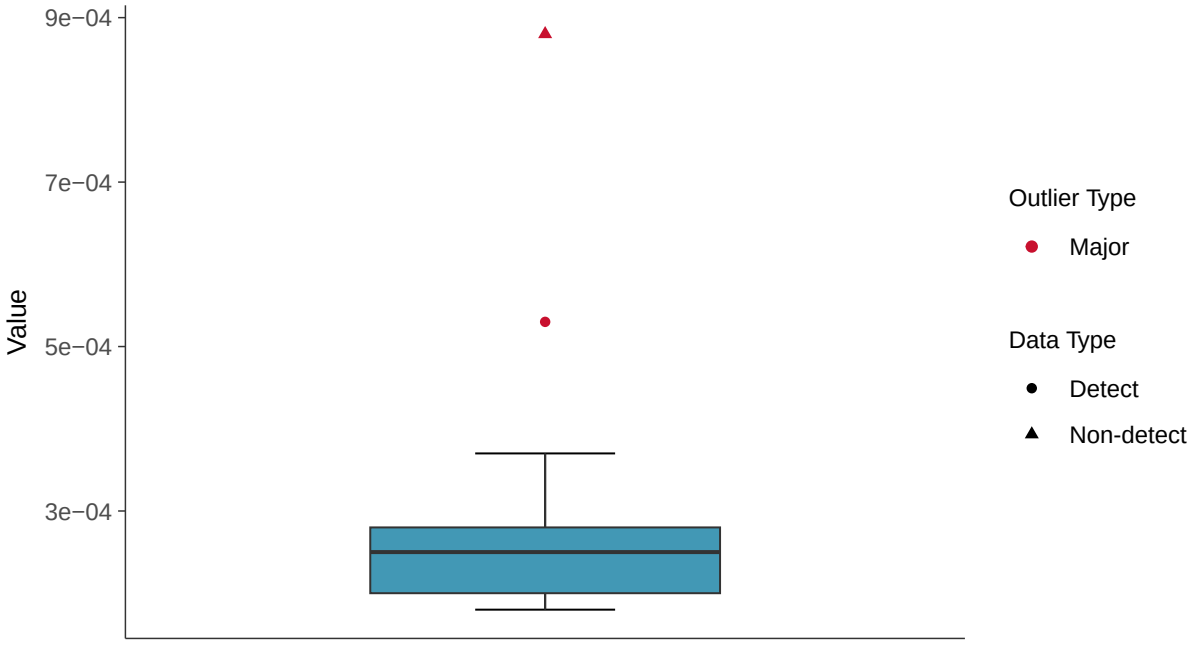
Histogram

Chromium, Total, MW-19 (mg/L)



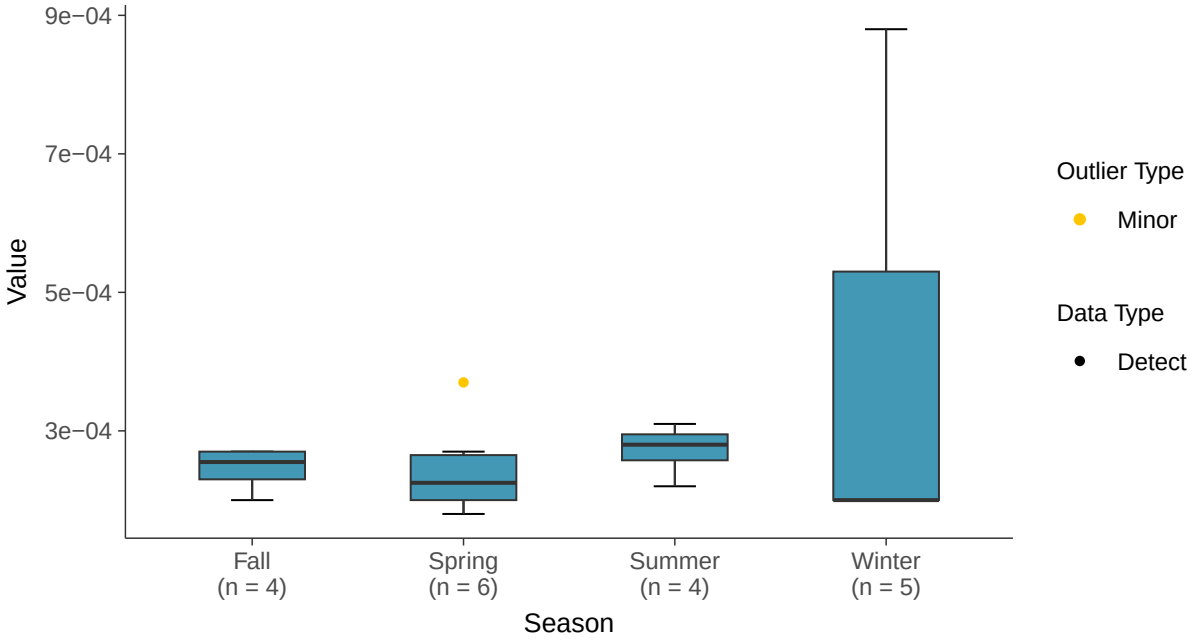
Boxplot

Chromium, Total, MW-19 (mg/L)



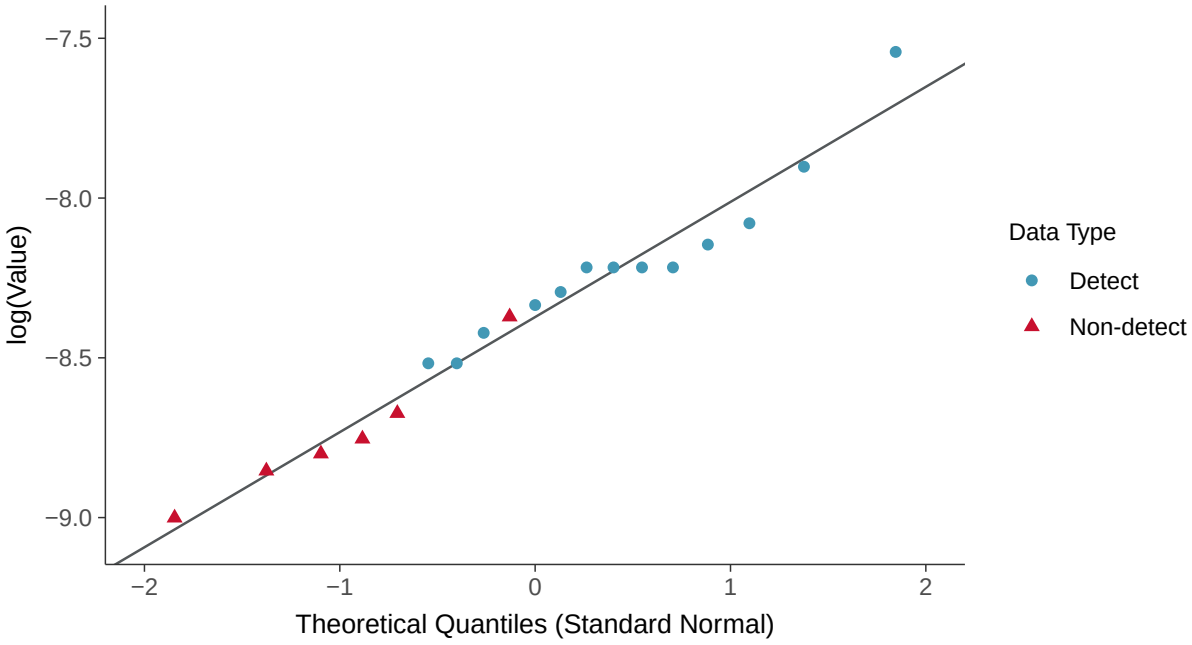
Boxplot by Season

Chromium, Total, MW-19 (mg/L)



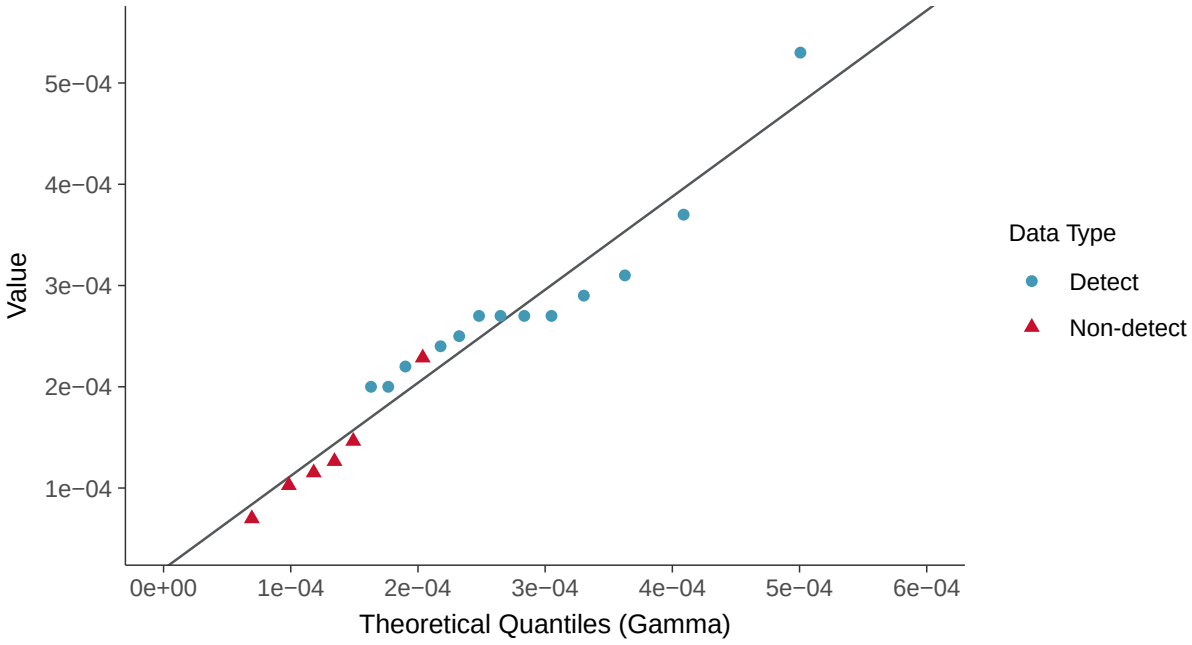
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-19 (mg/L)



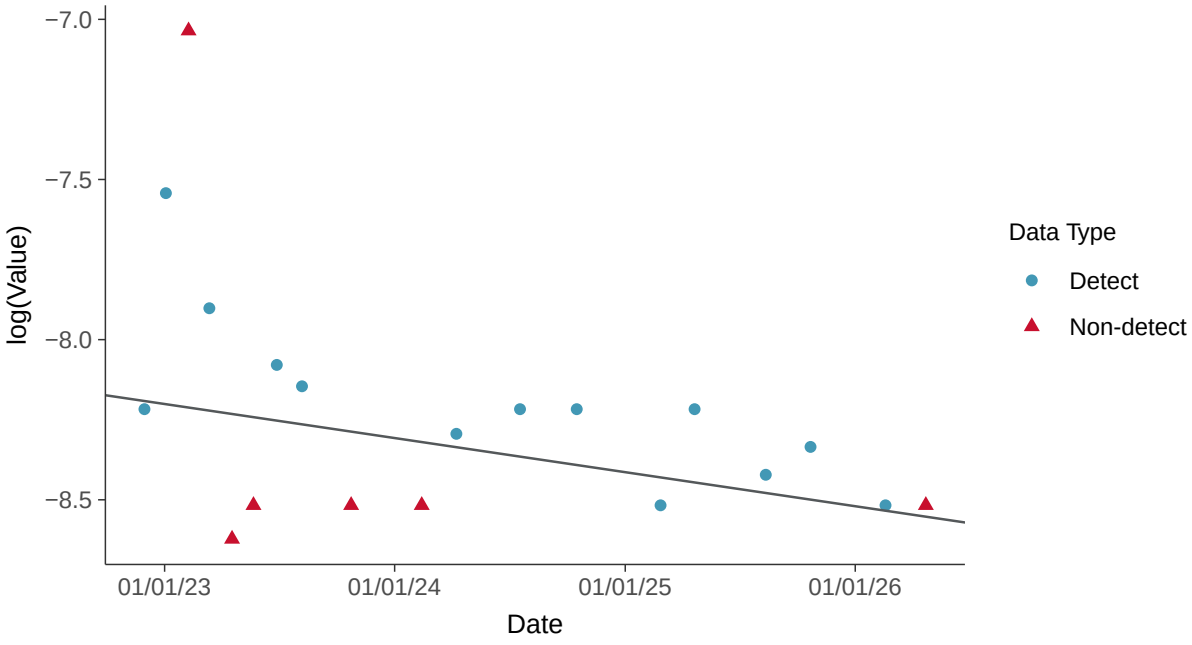
Gamma Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-19 (mg/L)



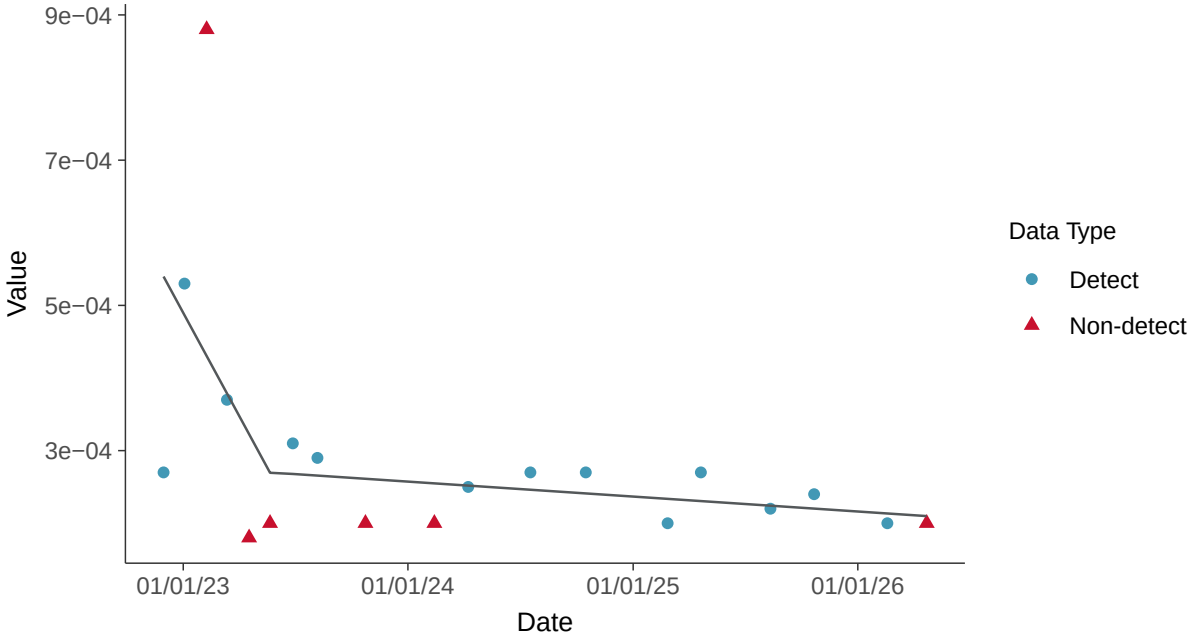
Trend Regression: Lognormal MLE

Chromium, Total, MW-19 (mg/L)



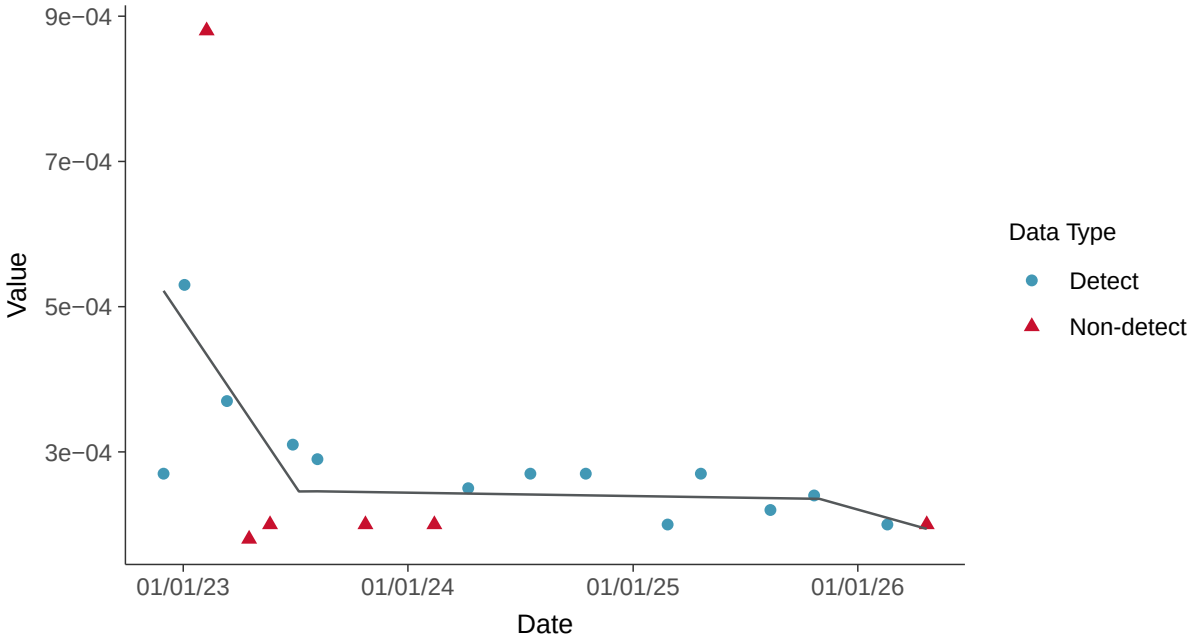
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-19 (mg/L)

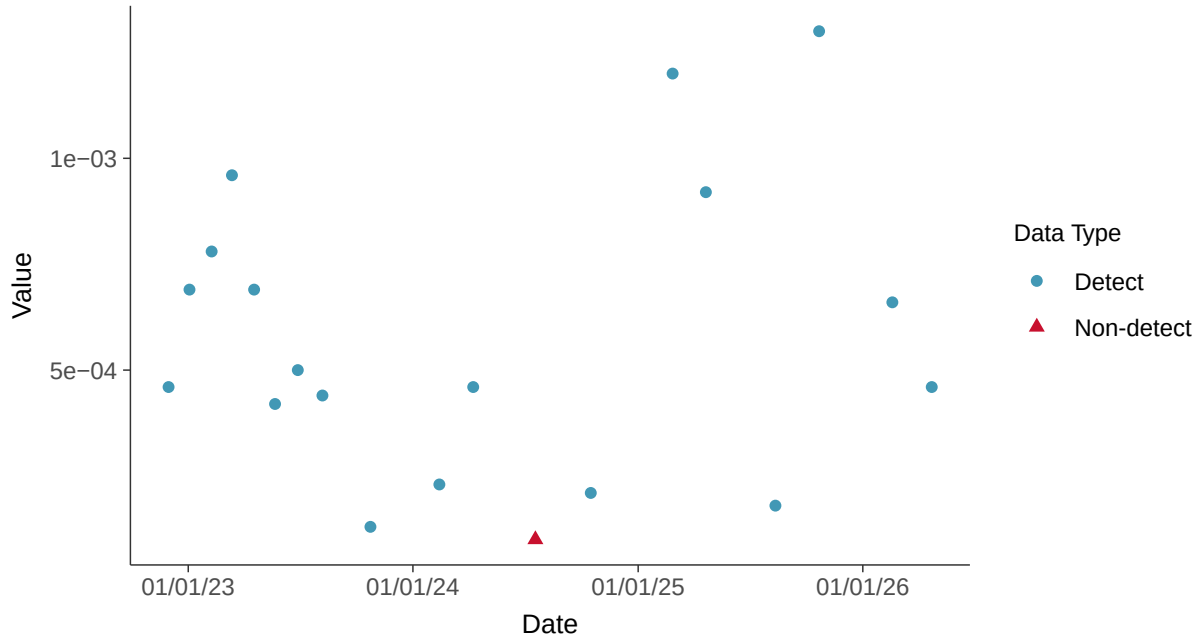


Appendix IV: Cobalt, MW-19

ID: 29_1_4_110

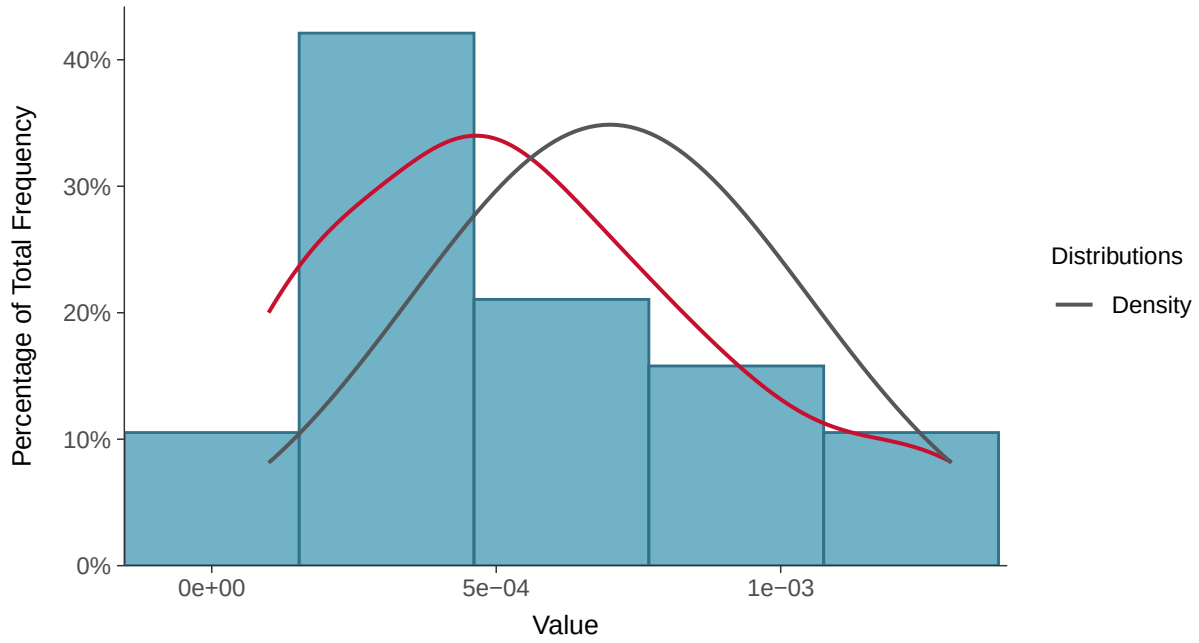
Scatter Plot

Cobalt, MW-19 (mg/L)



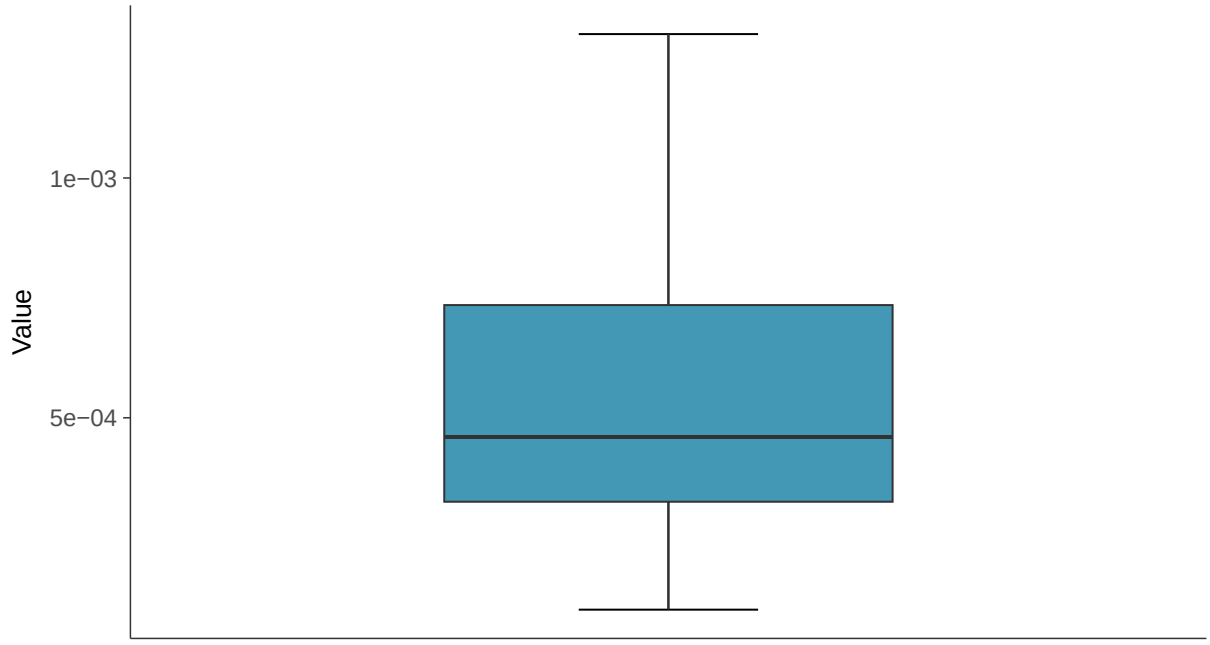
Histogram

Cobalt, MW-19 (mg/L)



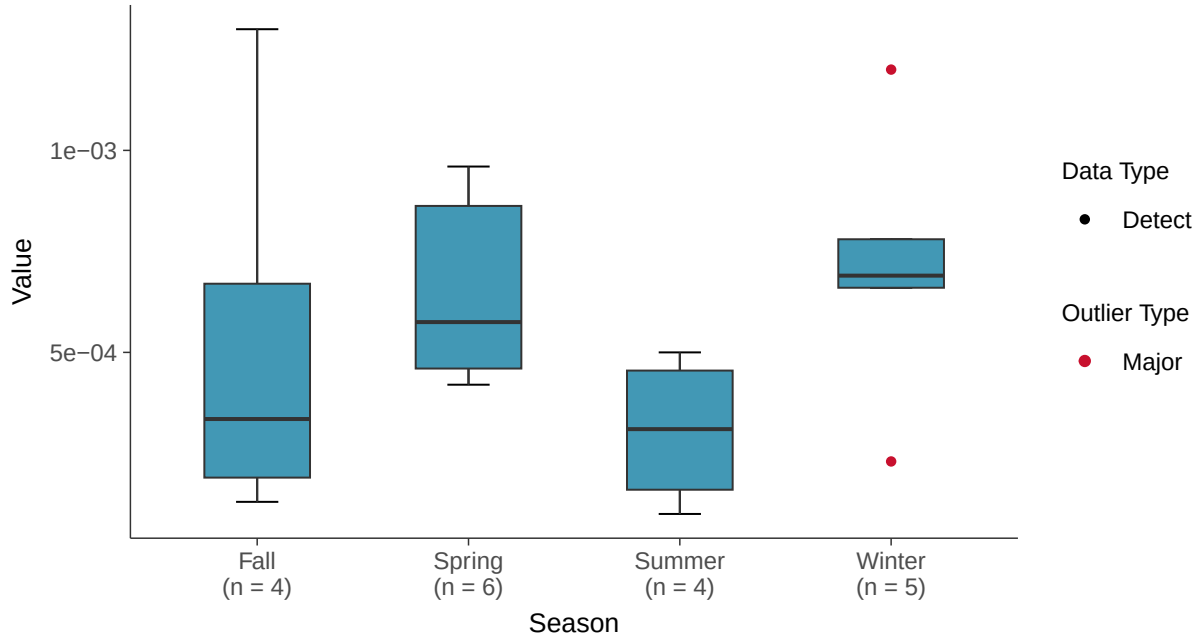
Boxplot

Cobalt, MW-19 (mg/L)



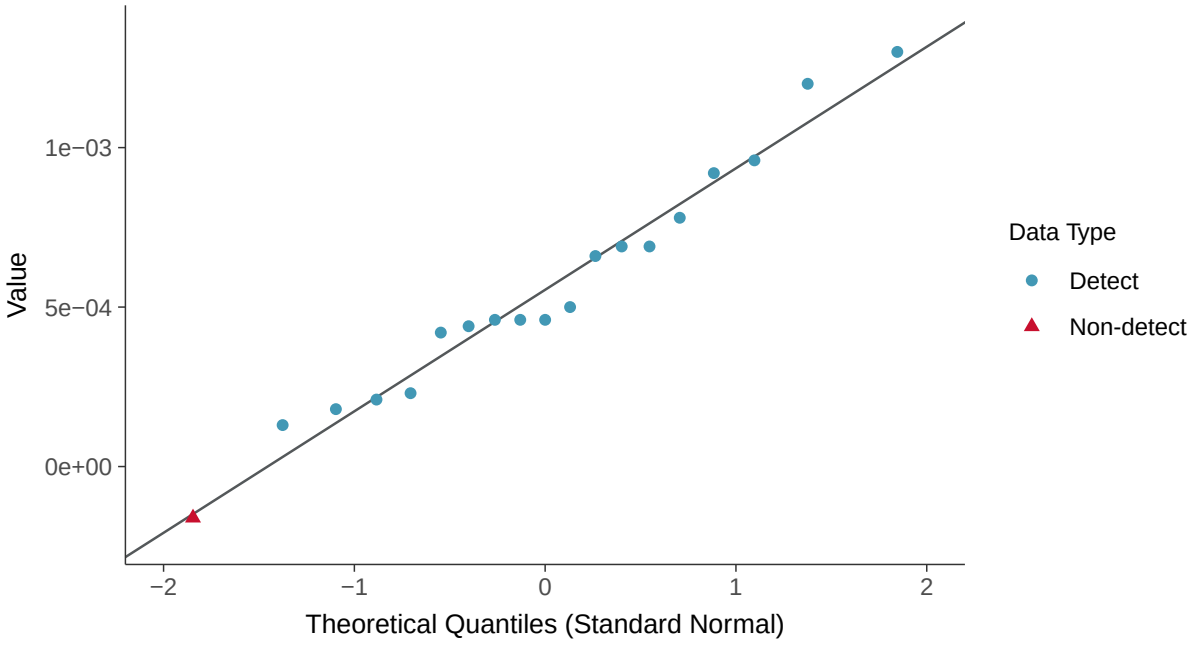
Boxplot by Season

Cobalt, MW-19 (mg/L)



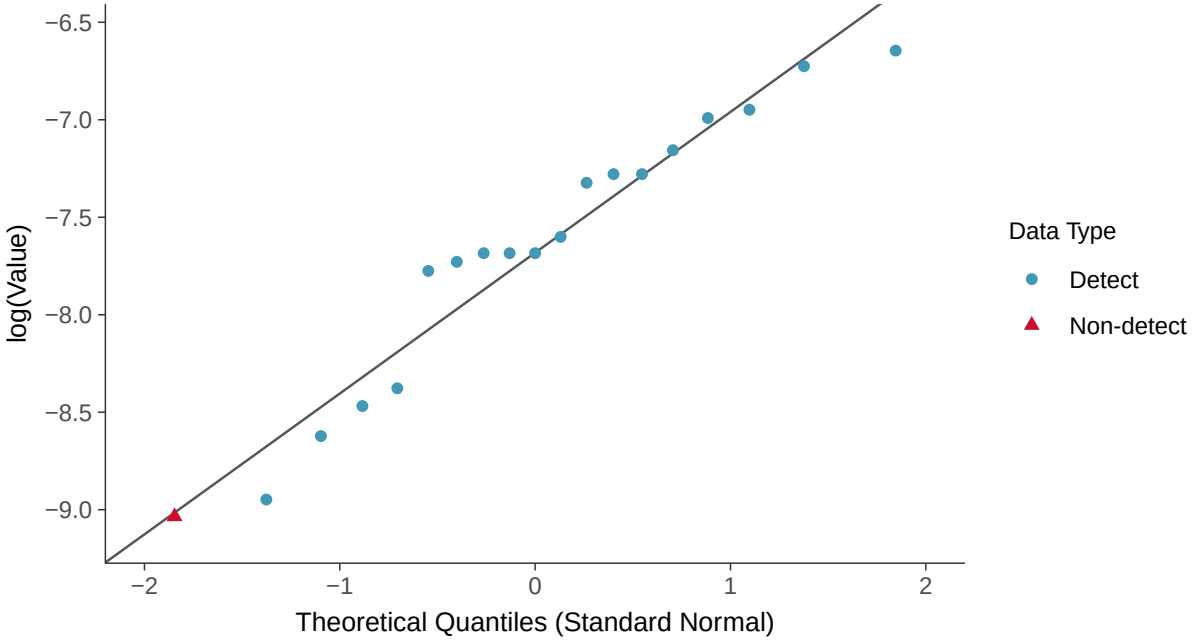
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



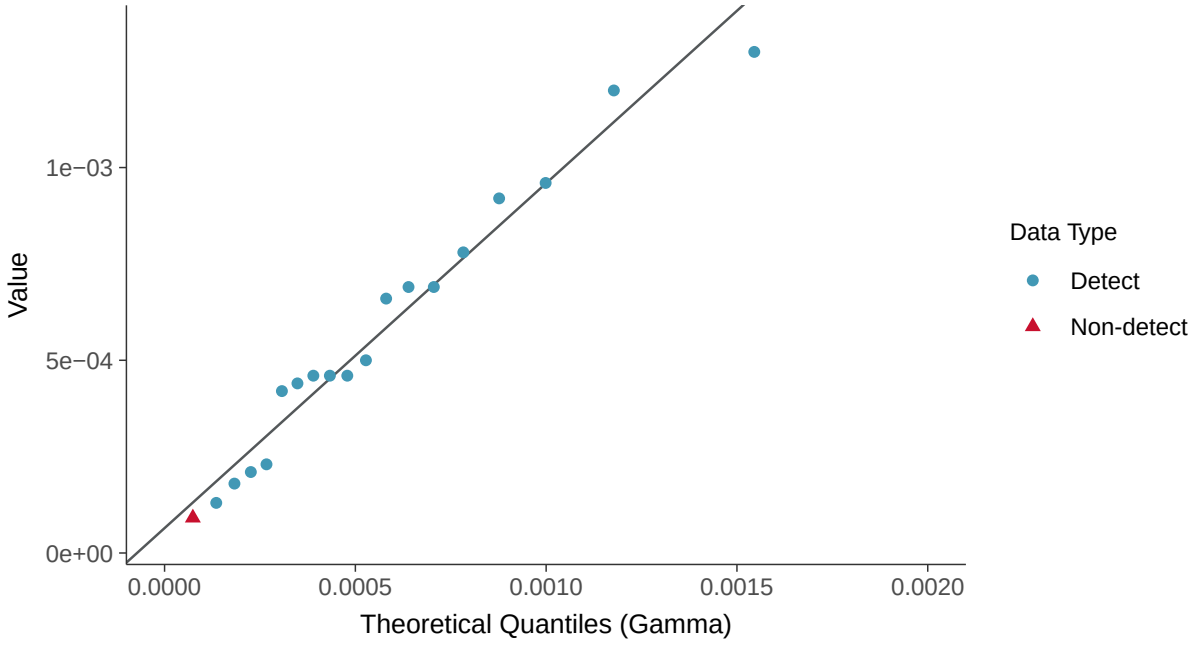
Lognormal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



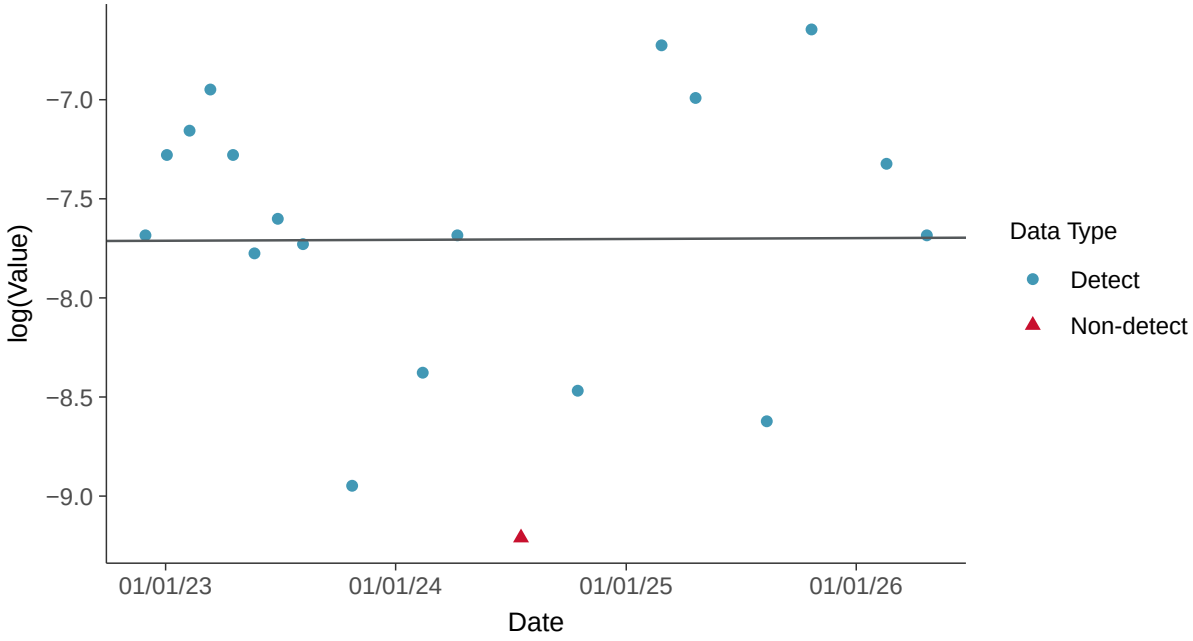
Gamma Q-Q plot using ROS Imputed Estimates

Cobalt, MW-19 (mg/L)



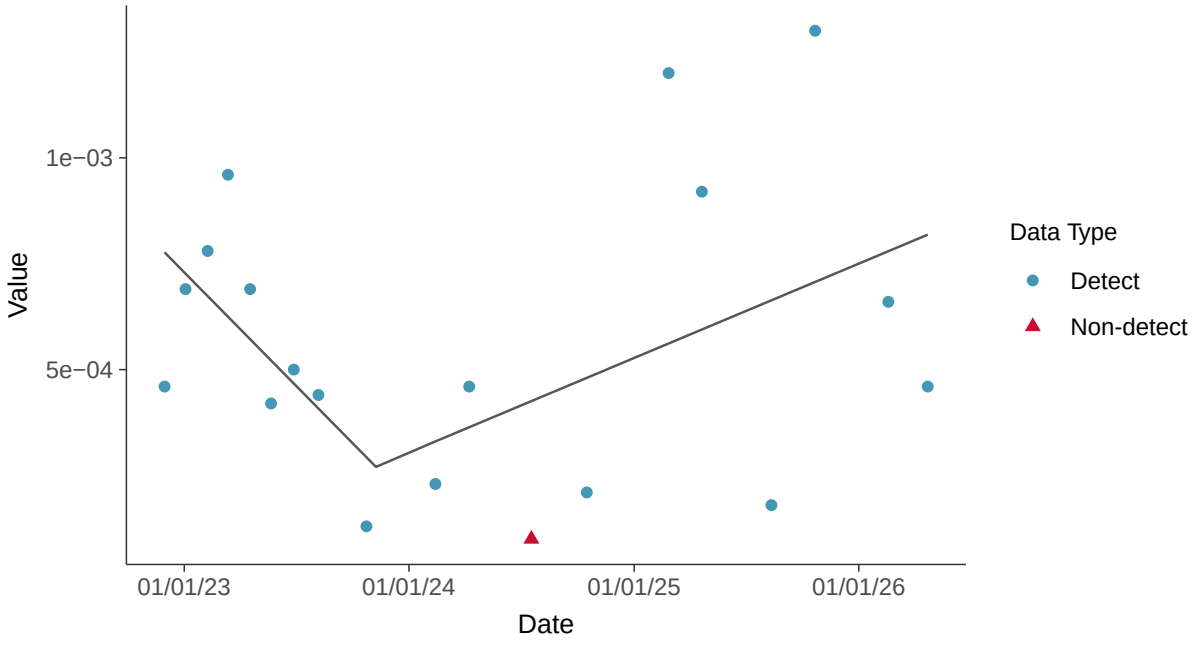
Trend Regression: Lognormal MLE

Cobalt, MW-19 (mg/L)



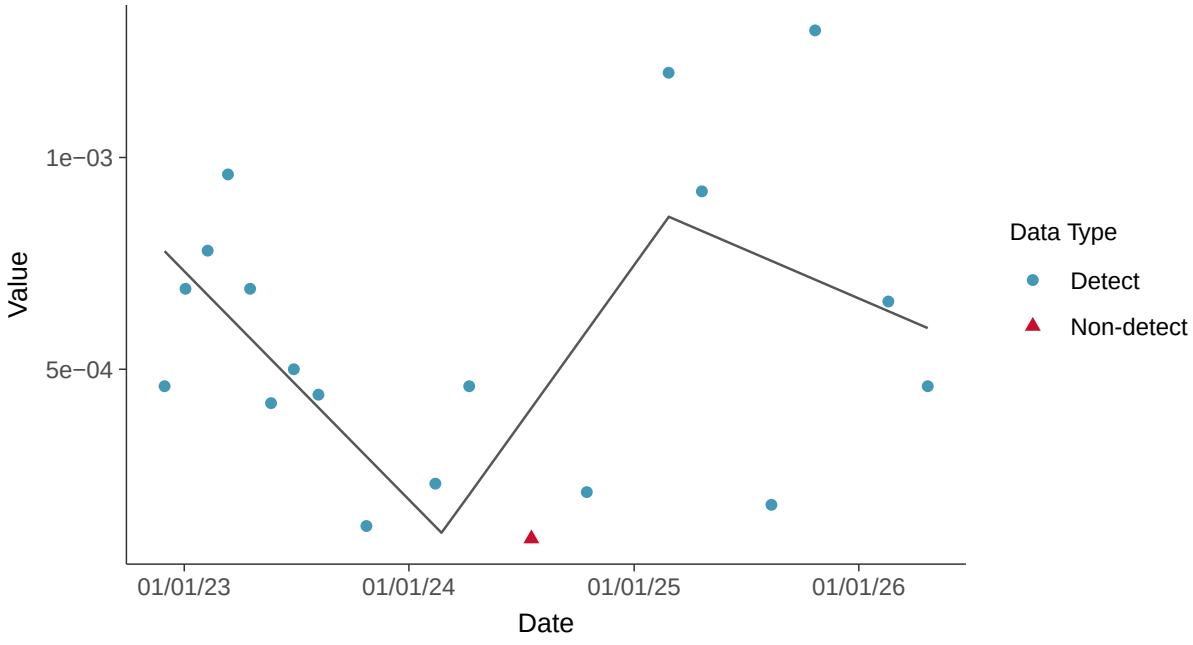
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-19 (mg/L)

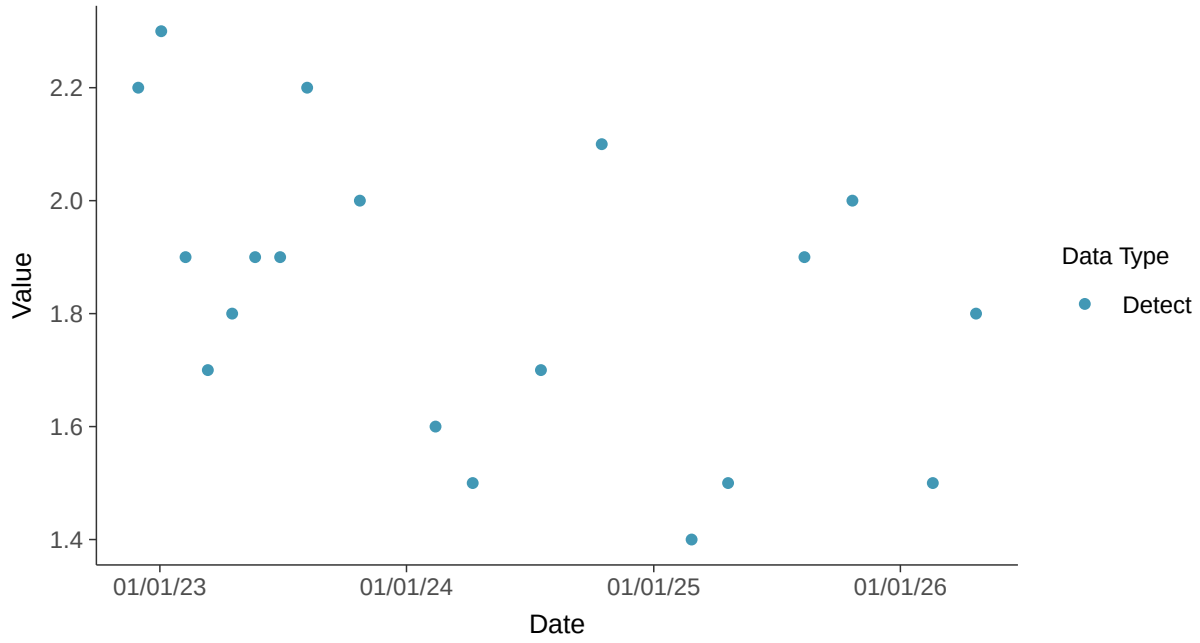


Appendix IV: Fluoride (App IV), MW-19

ID: 29_1_4_113

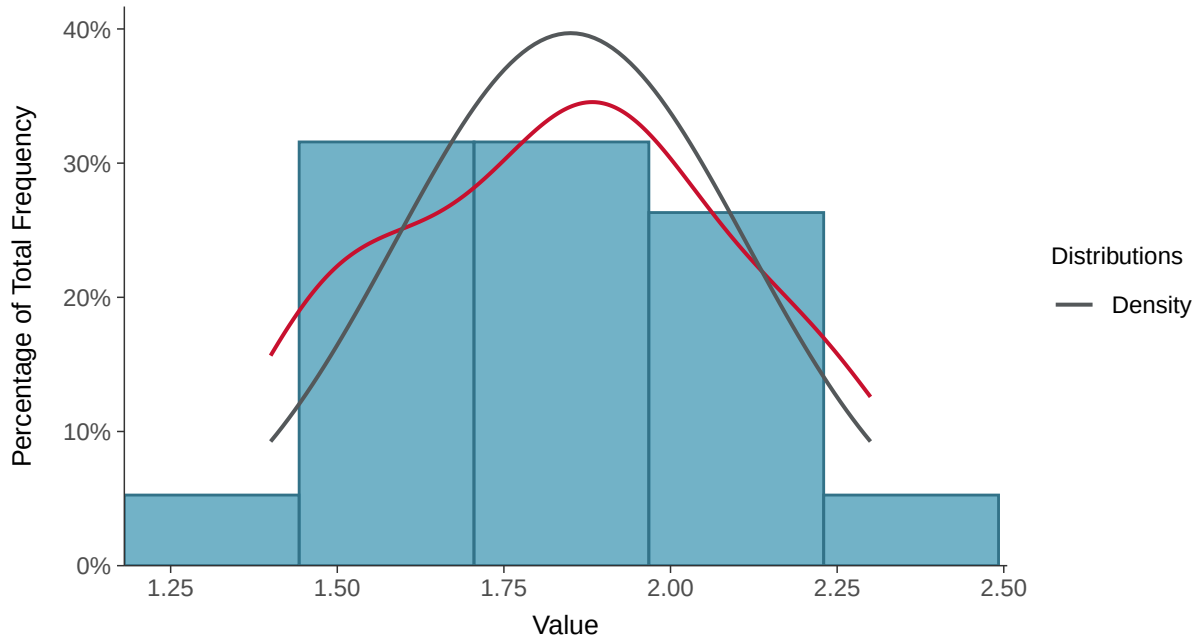
Scatter Plot

Fluoride (App IV), MW-19 (mg/L)



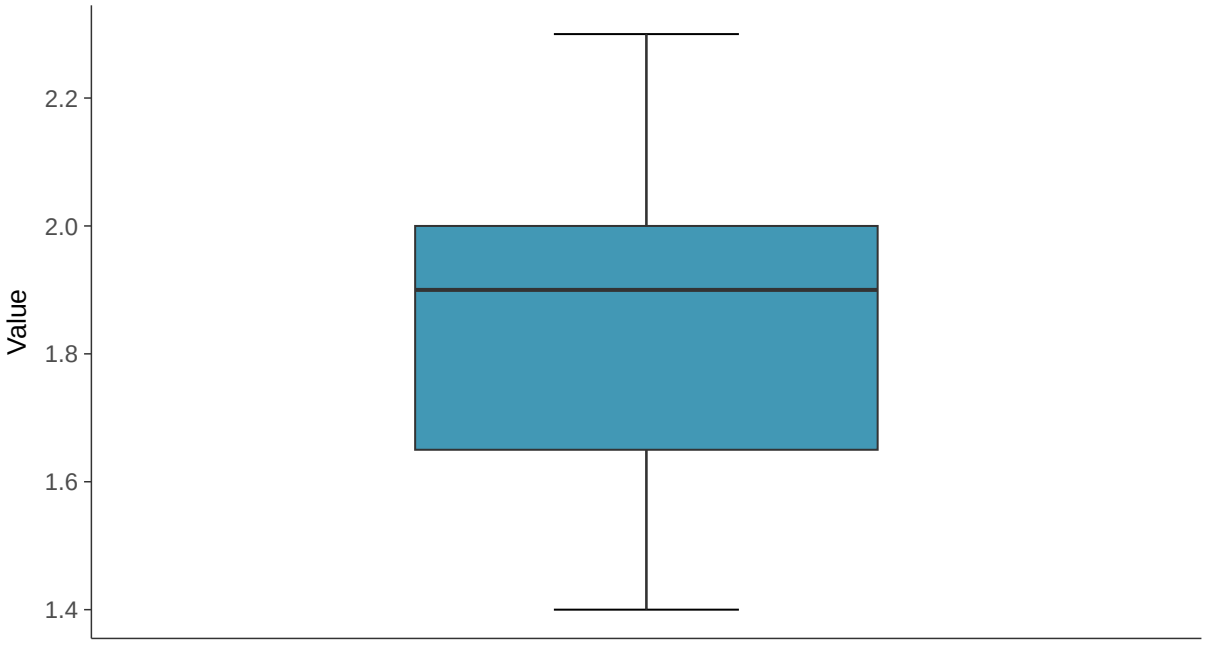
Histogram

Fluoride (App IV), MW-19 (mg/L)



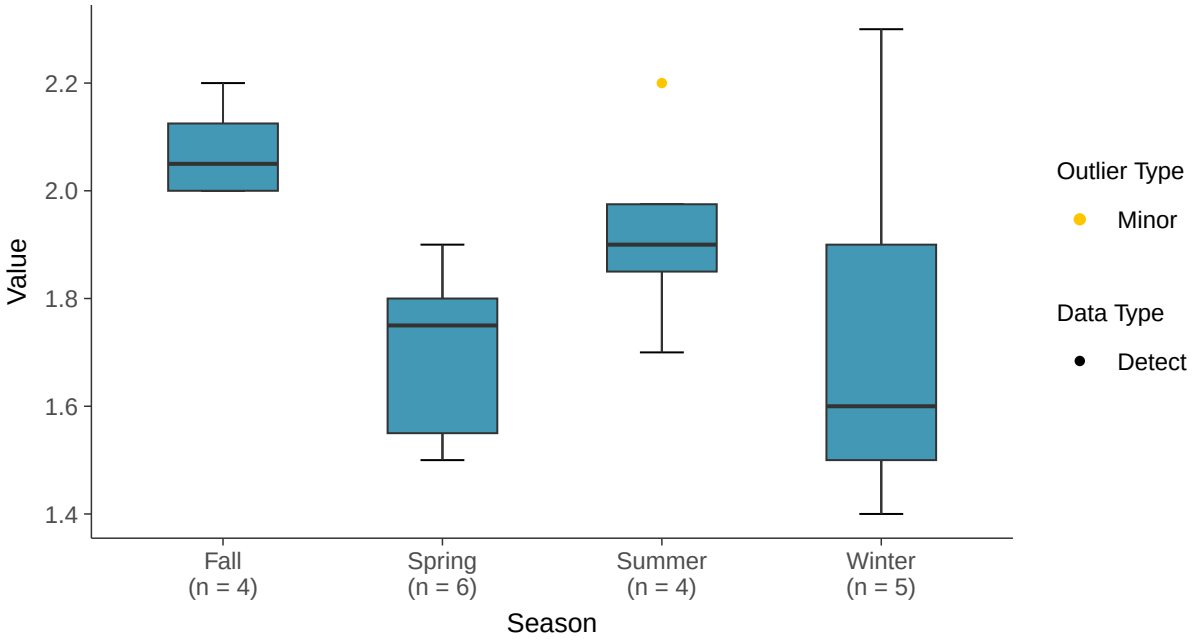
Boxplot

Fluoride (App IV), MW-19 (mg/L)



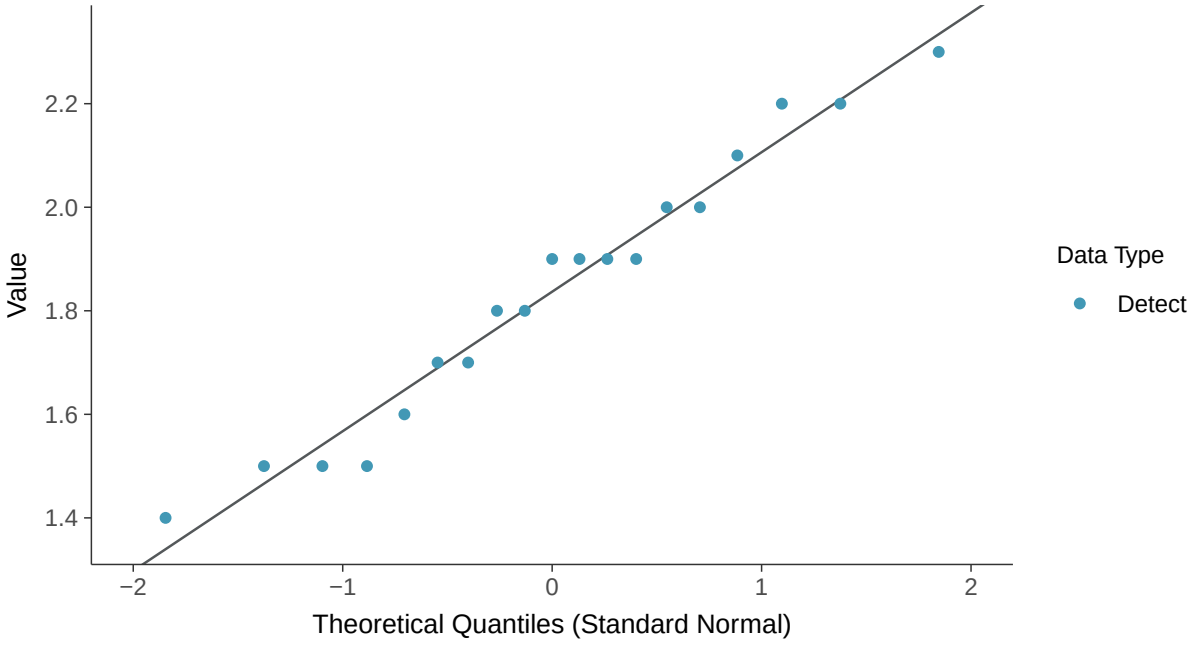
Boxplot by Season

Fluoride (App IV), MW-19 (mg/L)



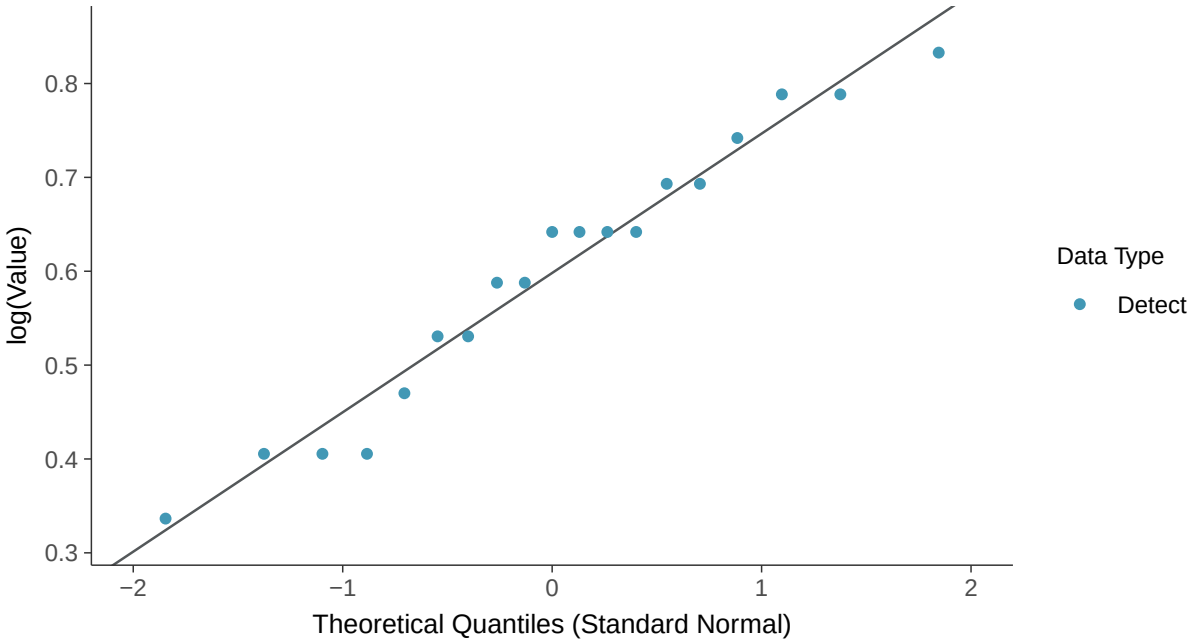
Normal Q-Q plot

Fluoride (App IV), MW-19 (mg/L)



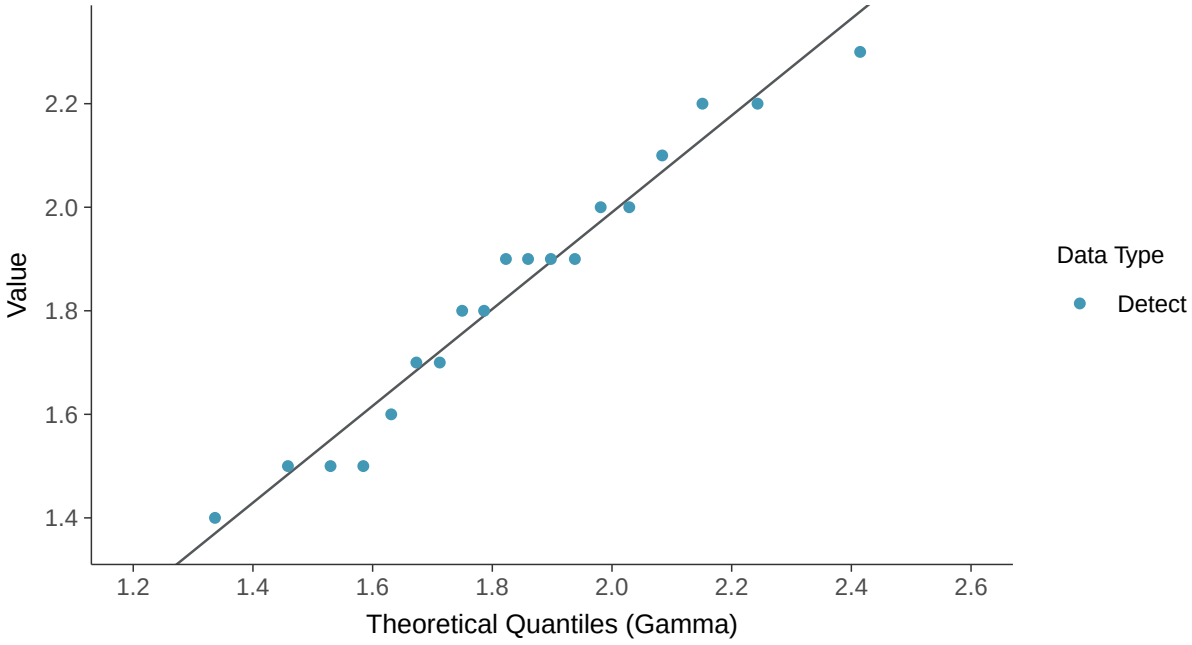
Lognormal Q-Q plot

Fluoride (App IV), MW-19 (mg/L)



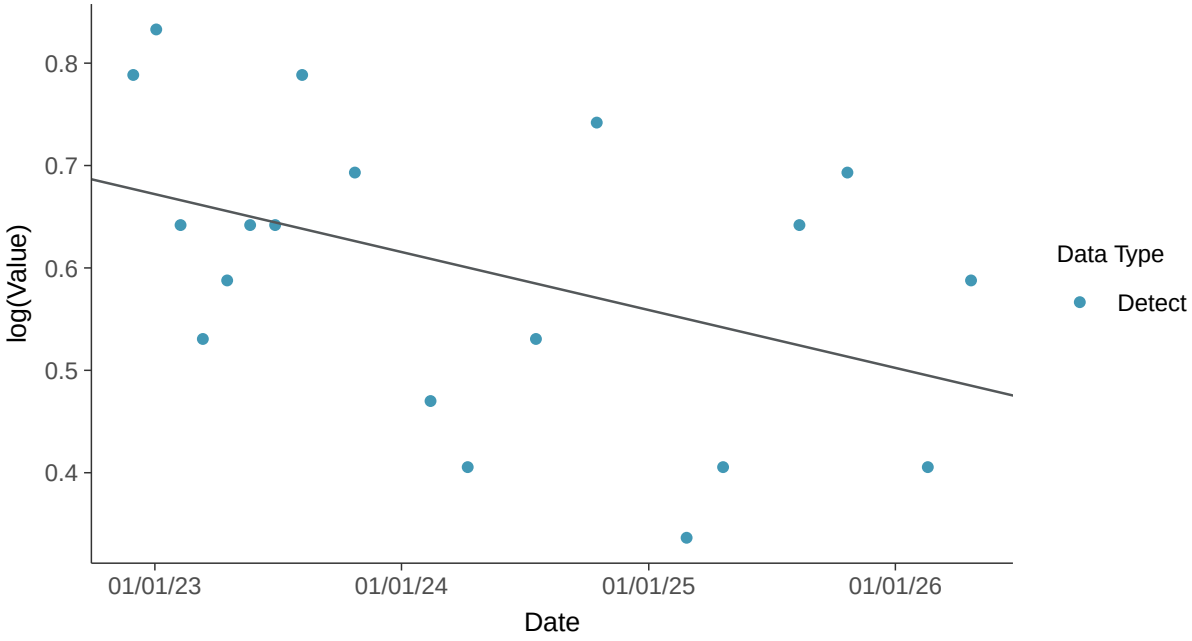
Gamma Q-Q plot

Fluoride (App IV), MW-19 (mg/L)



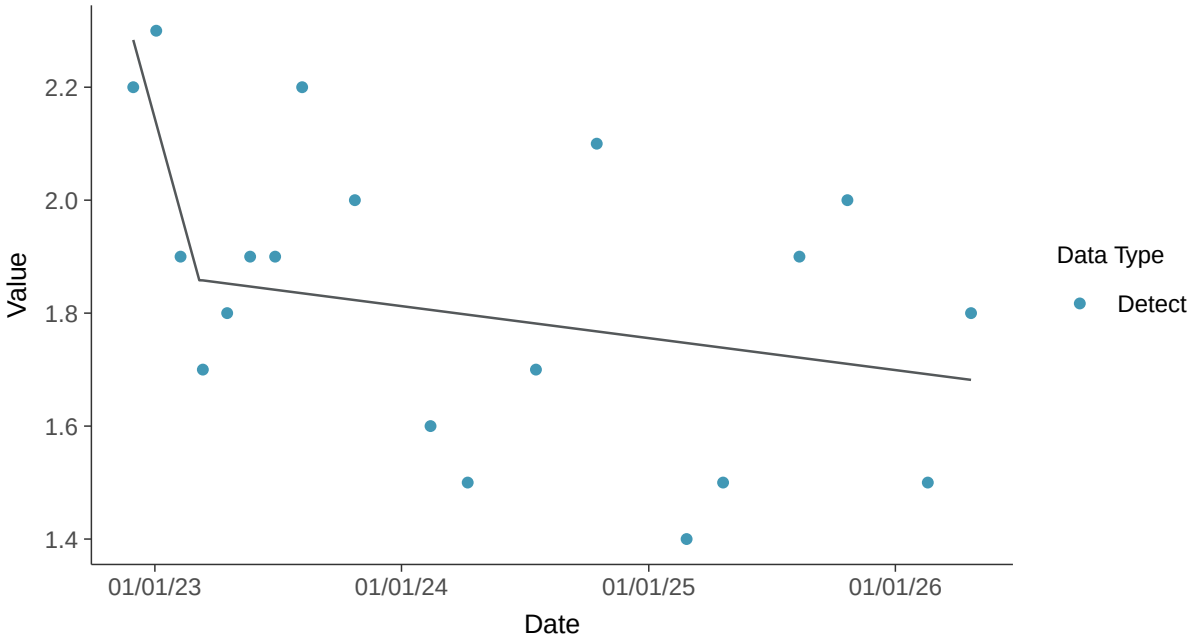
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-19 (mg/L)



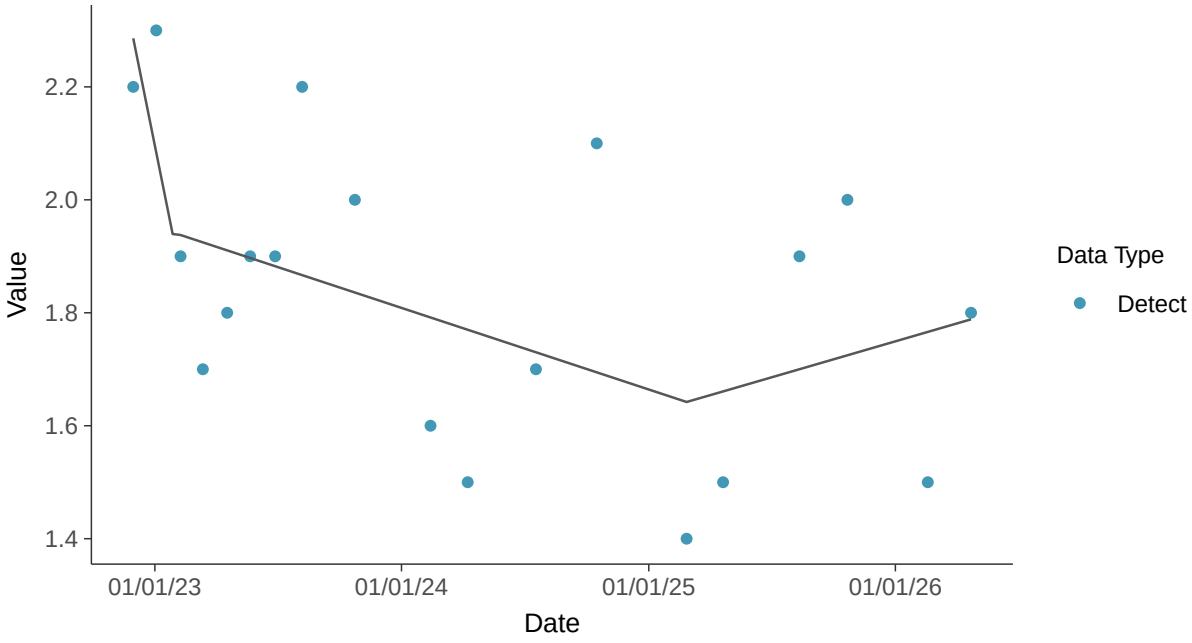
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-19 (mg/L)



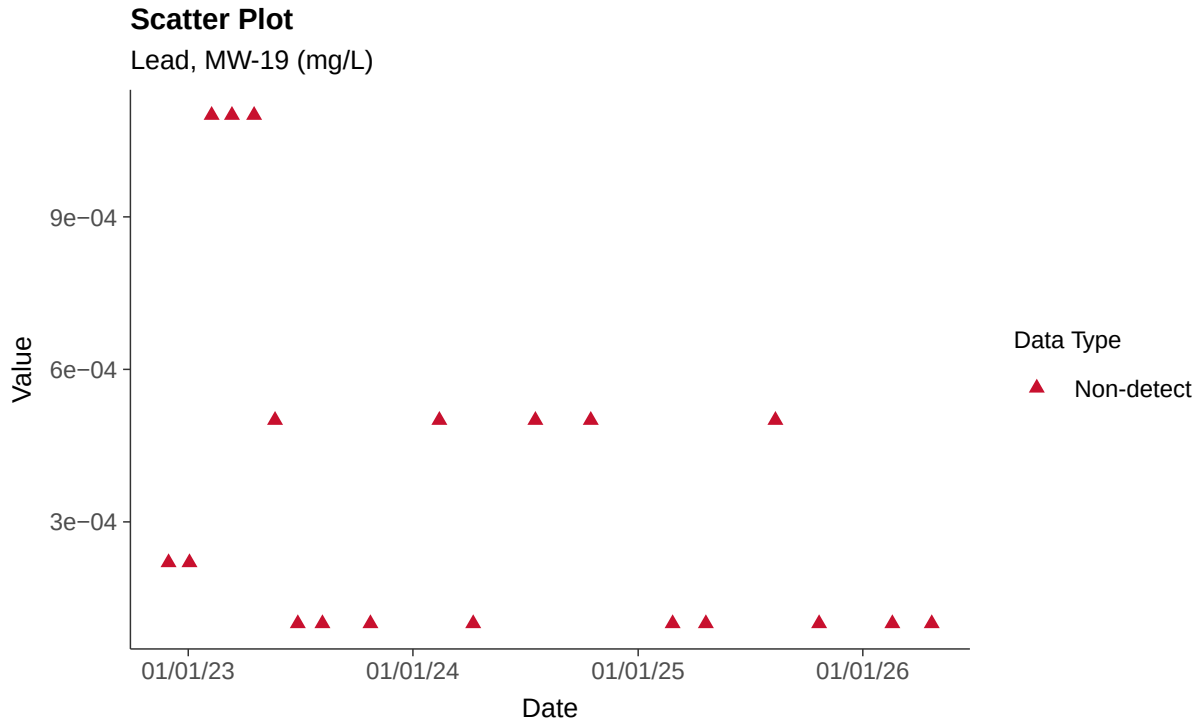
Trend Regression: Piecewise Linear-Linear-Linear

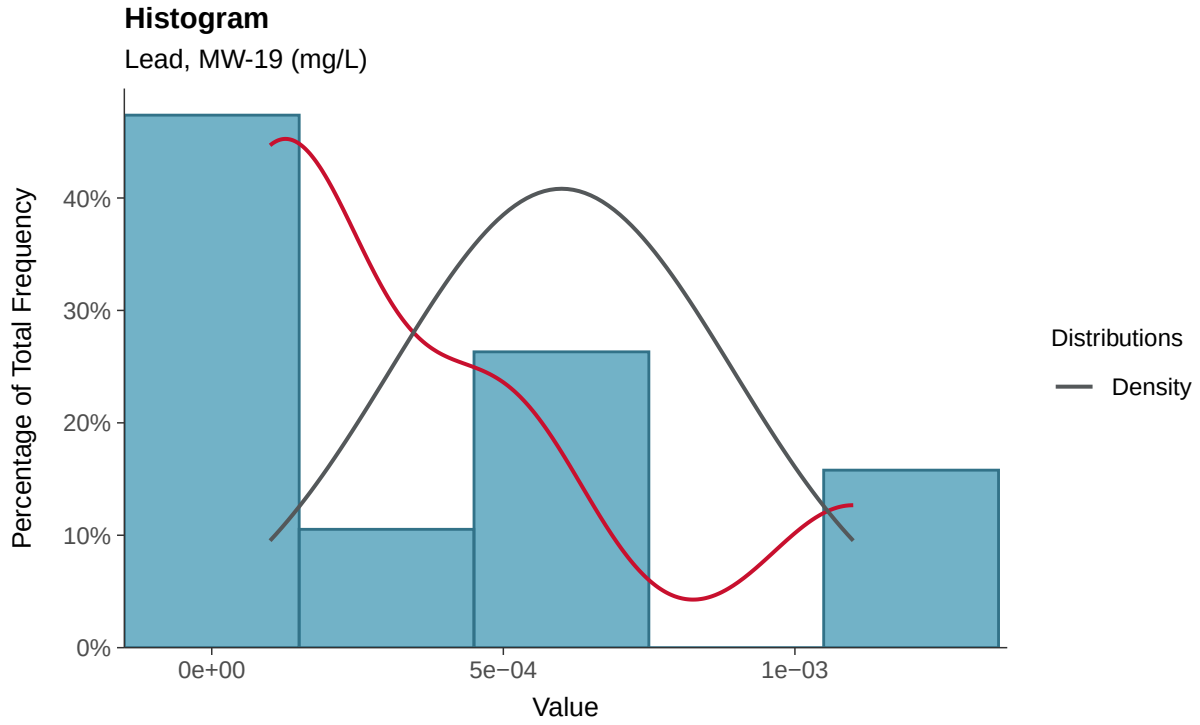
Fluoride (App IV), MW-19 (mg/L)



Appendix IV: Lead, MW-19

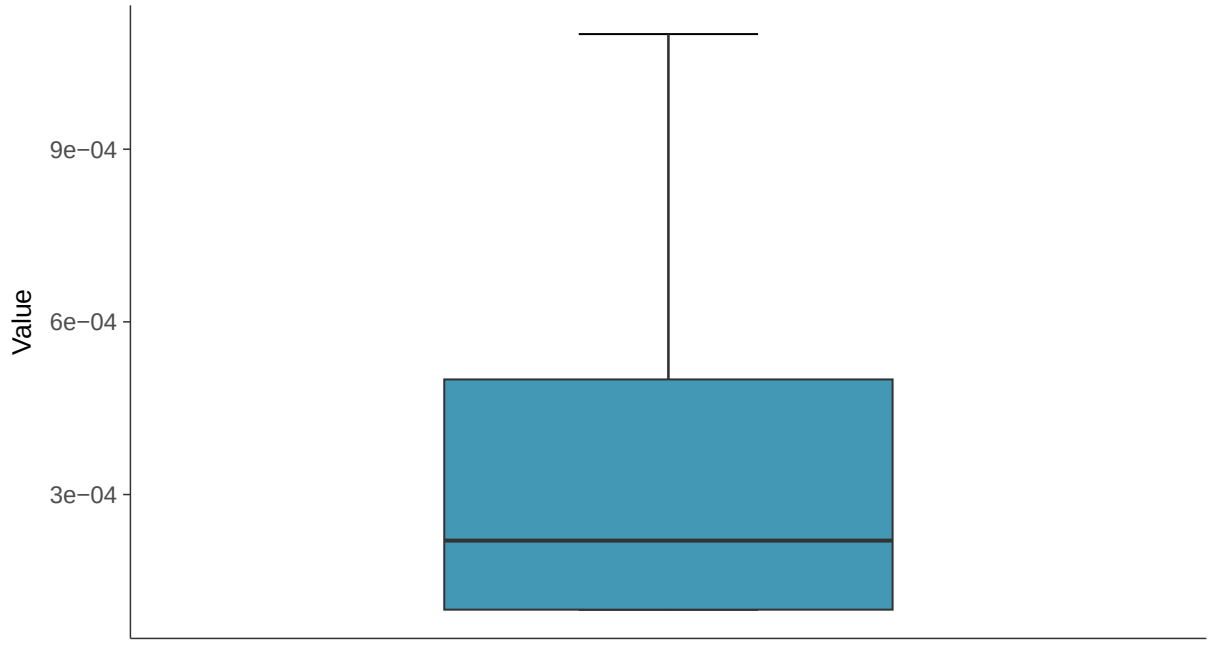
ID: 29_1_4_115





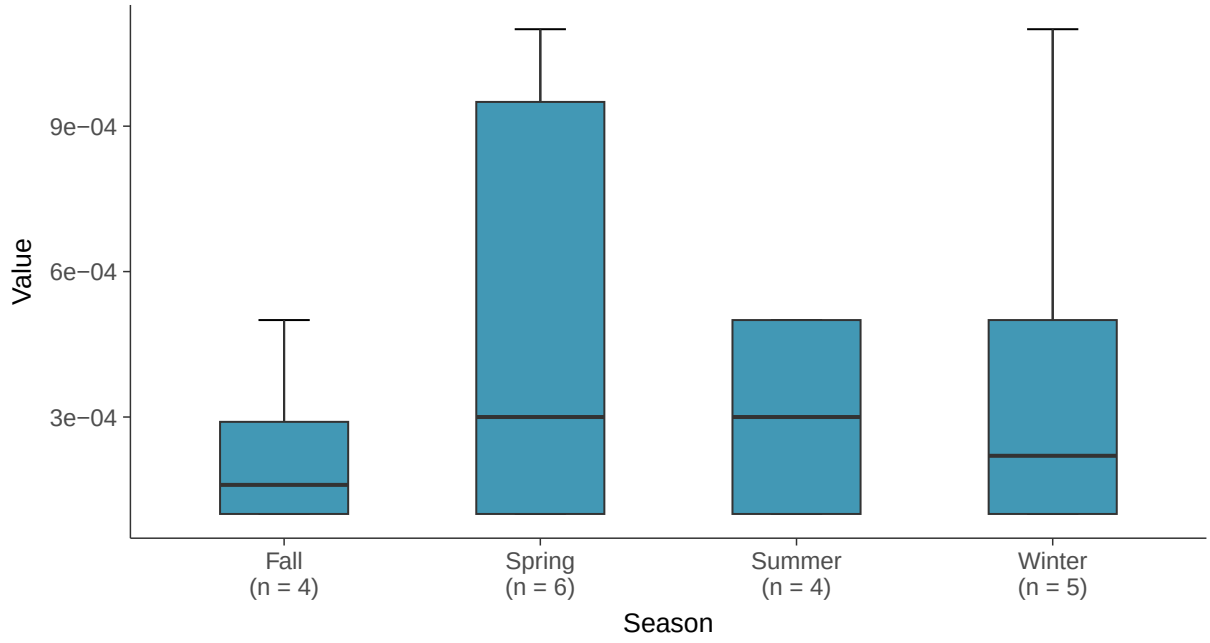
Boxplot

Lead, MW-19 (mg/L)



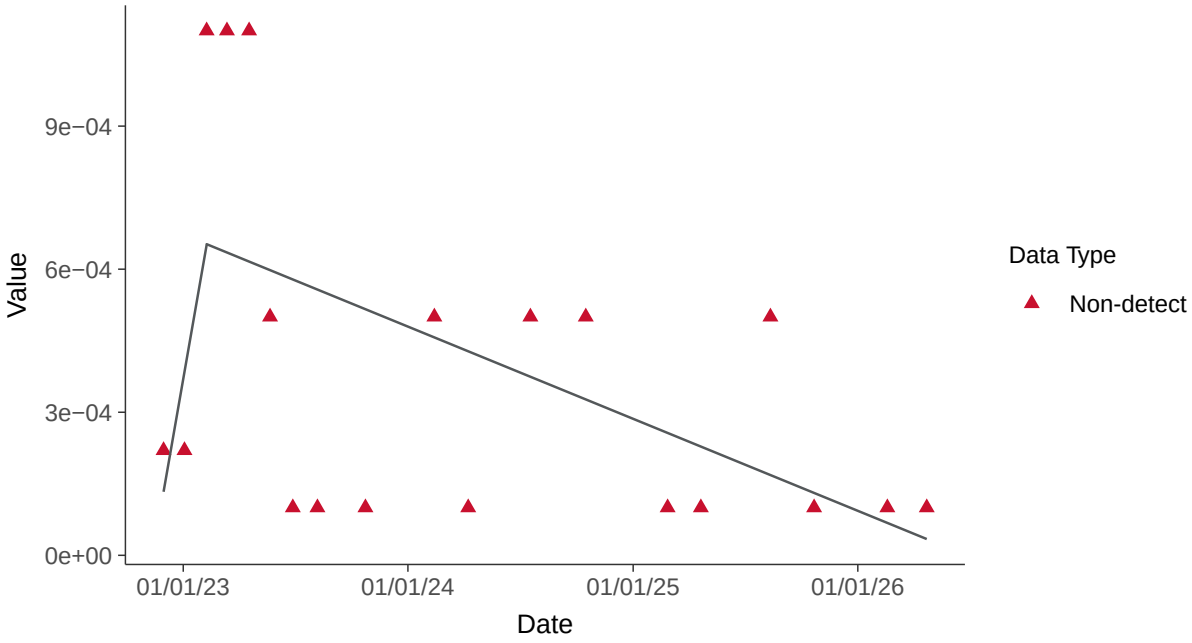
Boxplot by Season

Lead, MW-19 (mg/L)



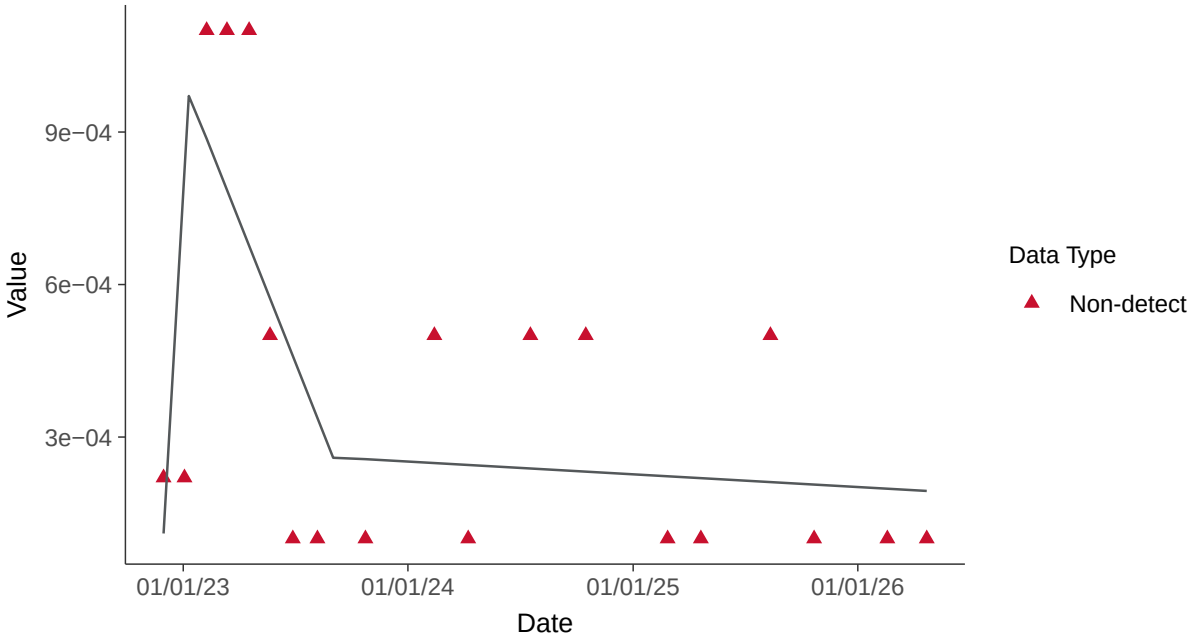
Trend Regression: Piecewise Linear-Linear

Lead, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-19 (mg/L)

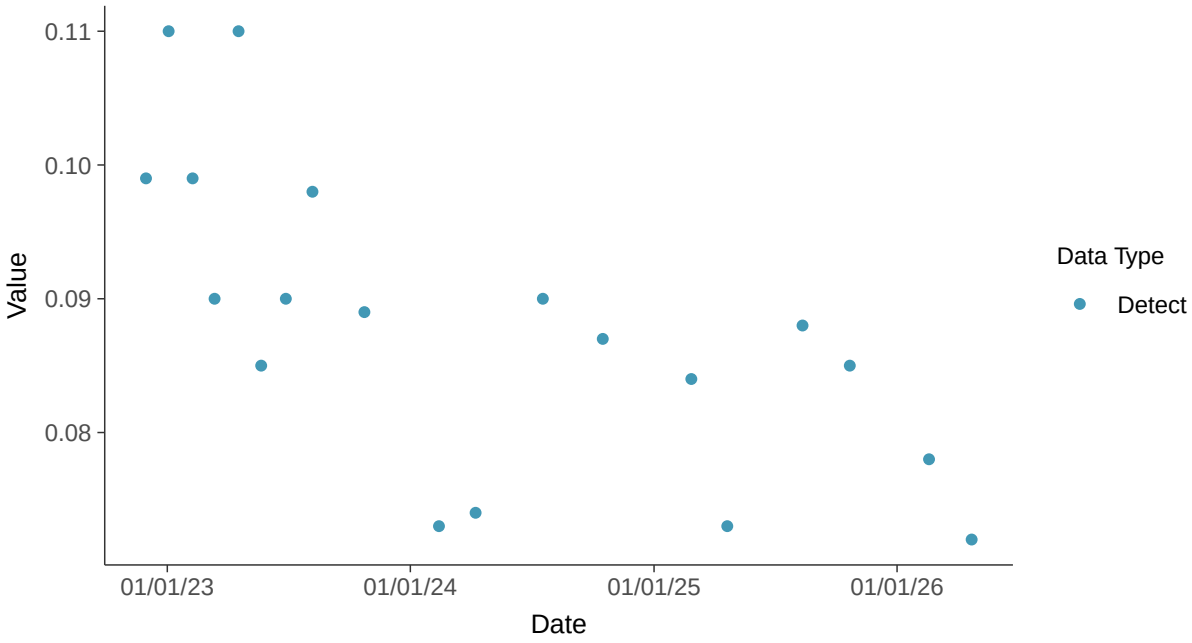


Appendix IV: Lithium, MW-19

ID: 29_1_4_116

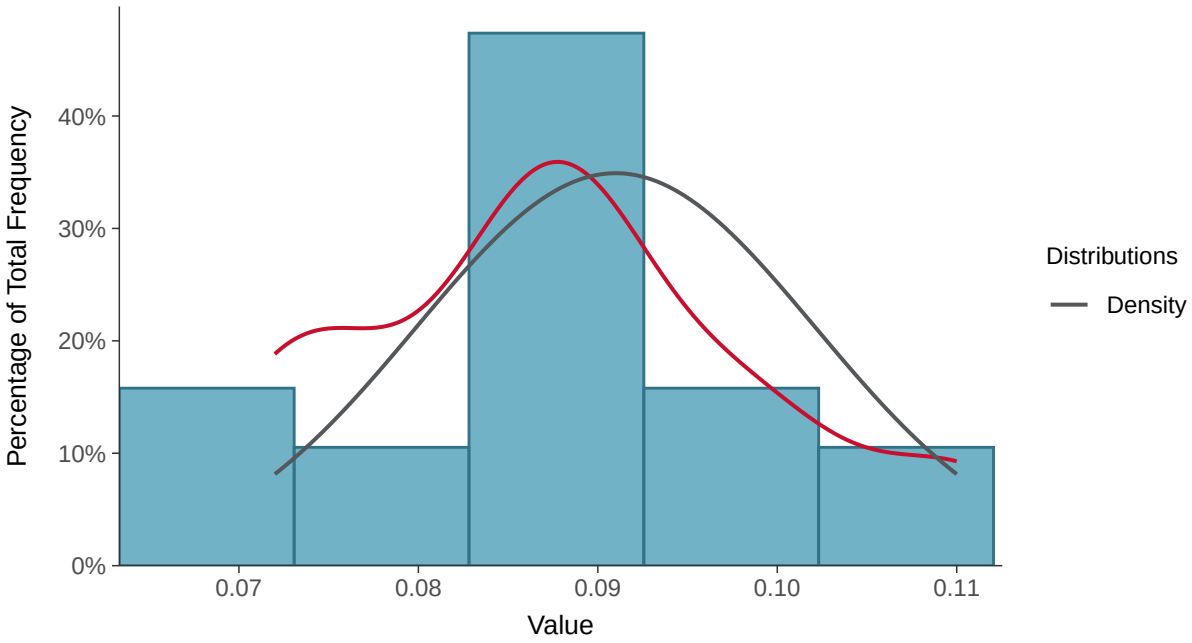
Scatter Plot

Lithium, MW-19 (mg/L)



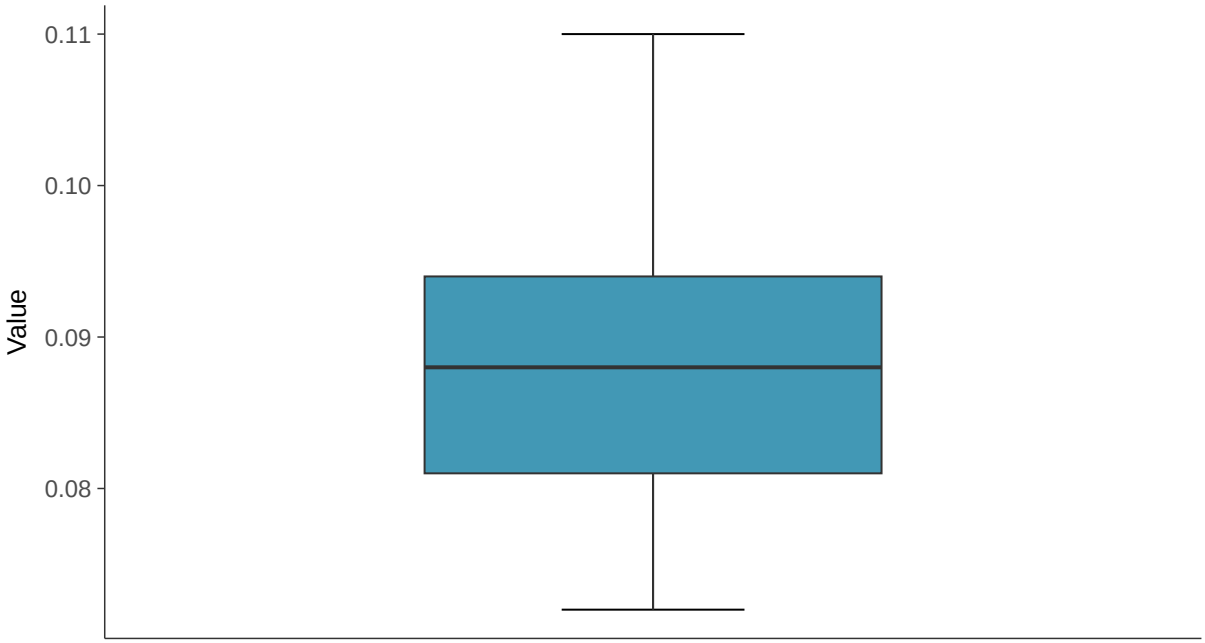
Histogram

Lithium, MW-19 (mg/L)



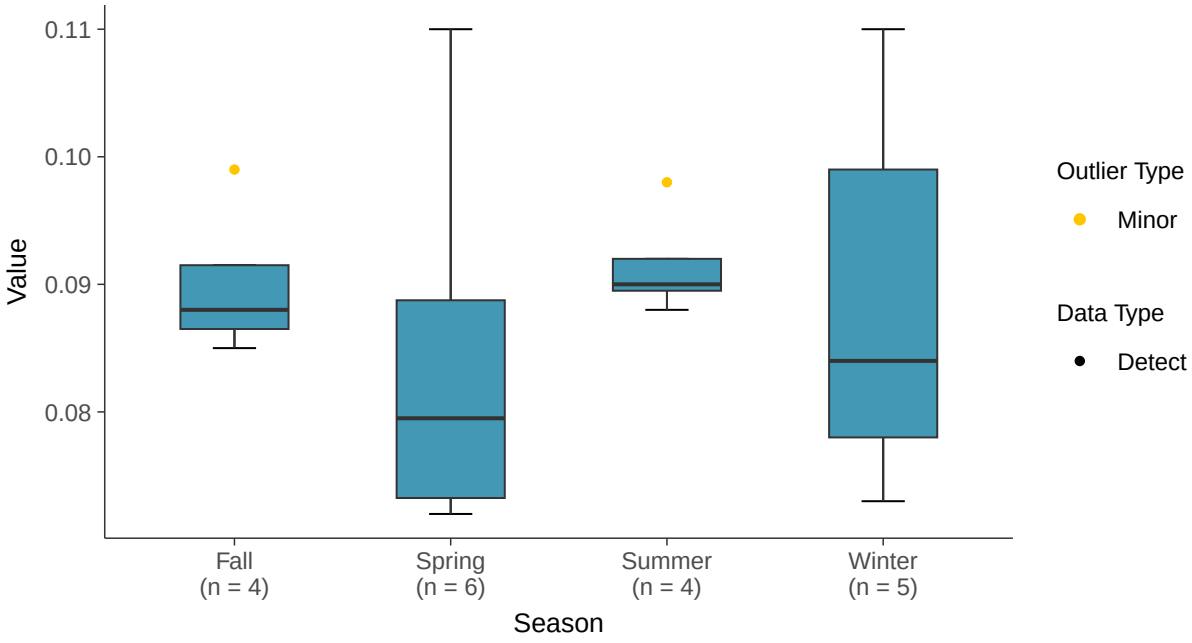
Boxplot

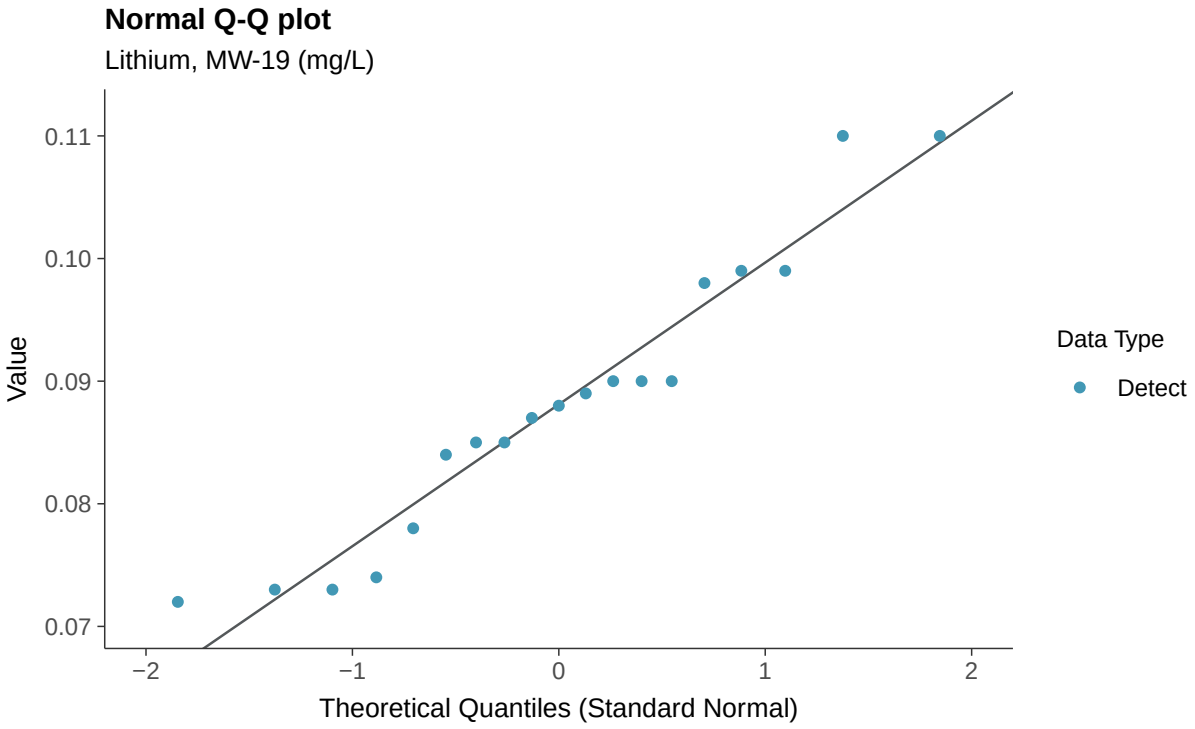
Lithium, MW-19 (mg/L)

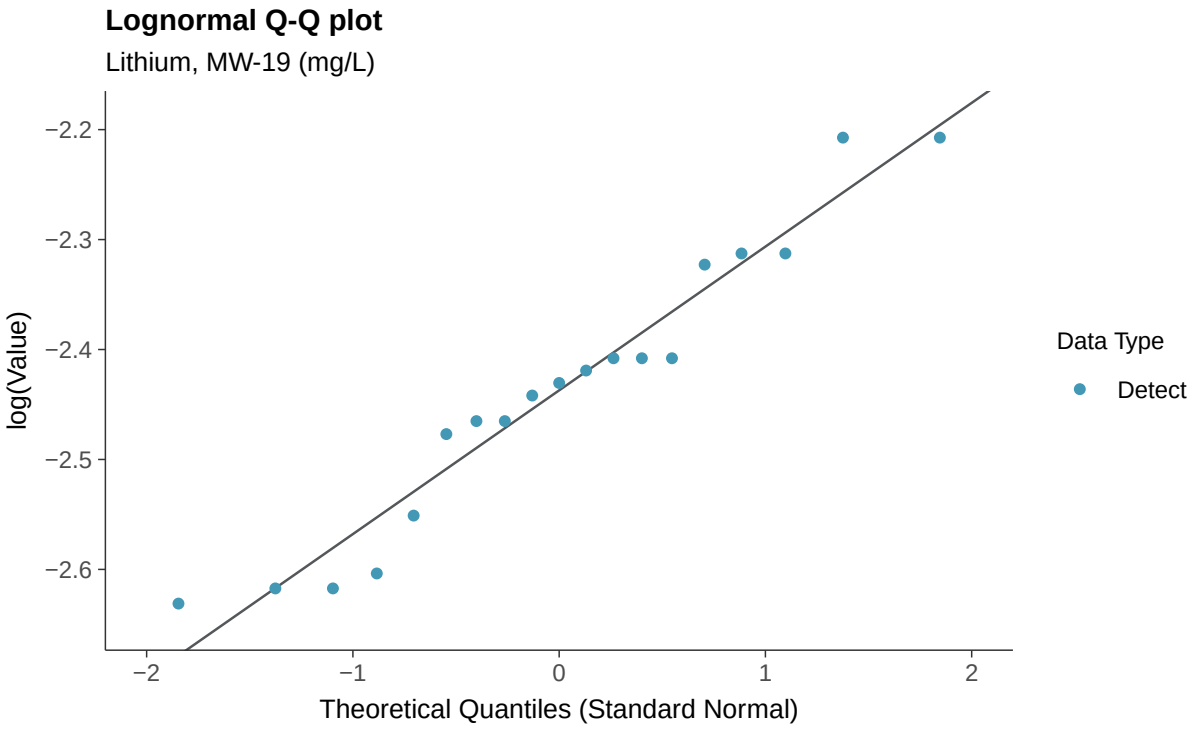


Boxplot by Season

Lithium, MW-19 (mg/L)

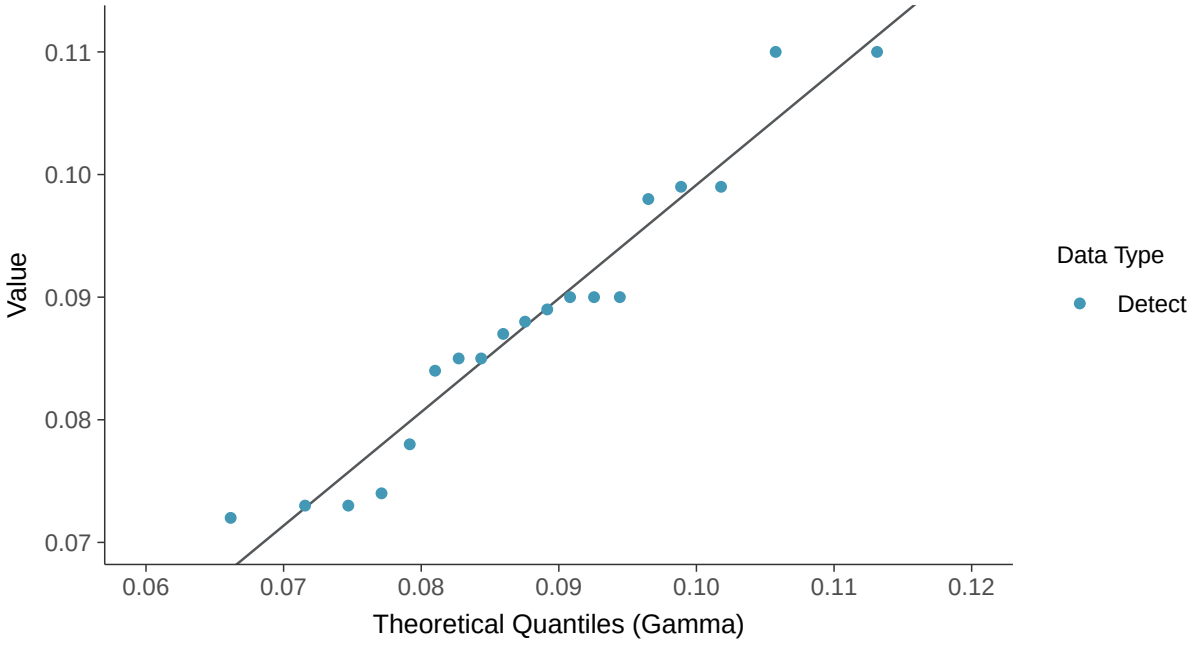



Normal Q-Q plot
Lithium, MW-19 (mg/L)
Value
0.11
0.10
0.09
0.08
0.07
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Lithium, MW-19 (mg/L)
log(Value)
−2.2
−2.3
−2.4
−2.5
−2.6
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

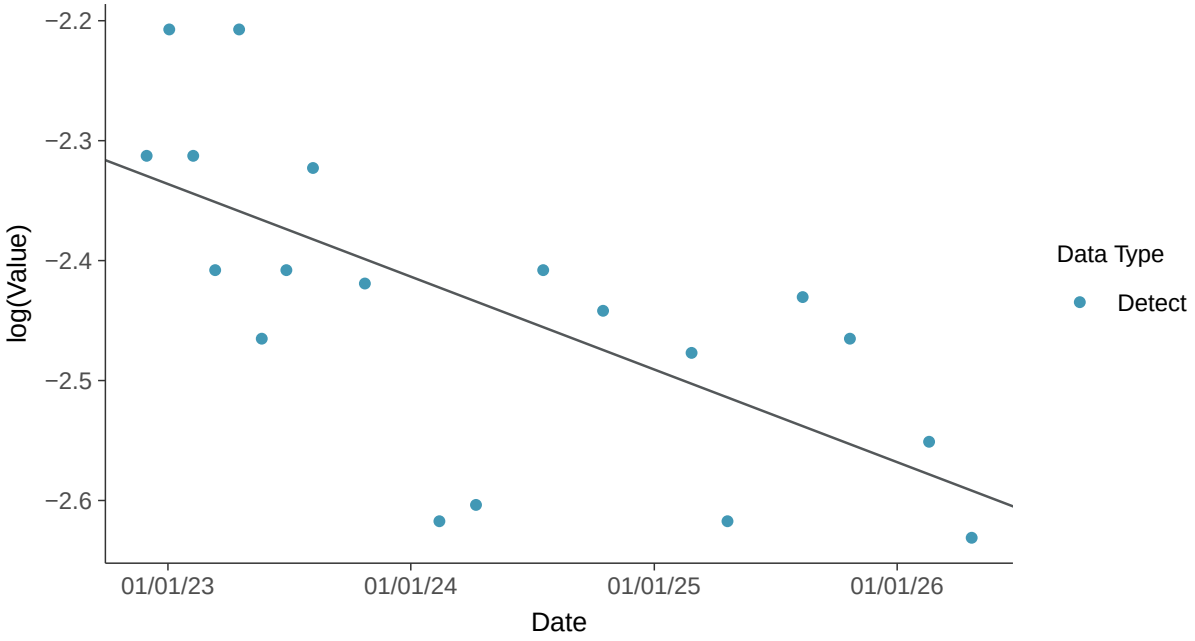
Gamma Q-Q plot

Lithium, MW-19 (mg/L)



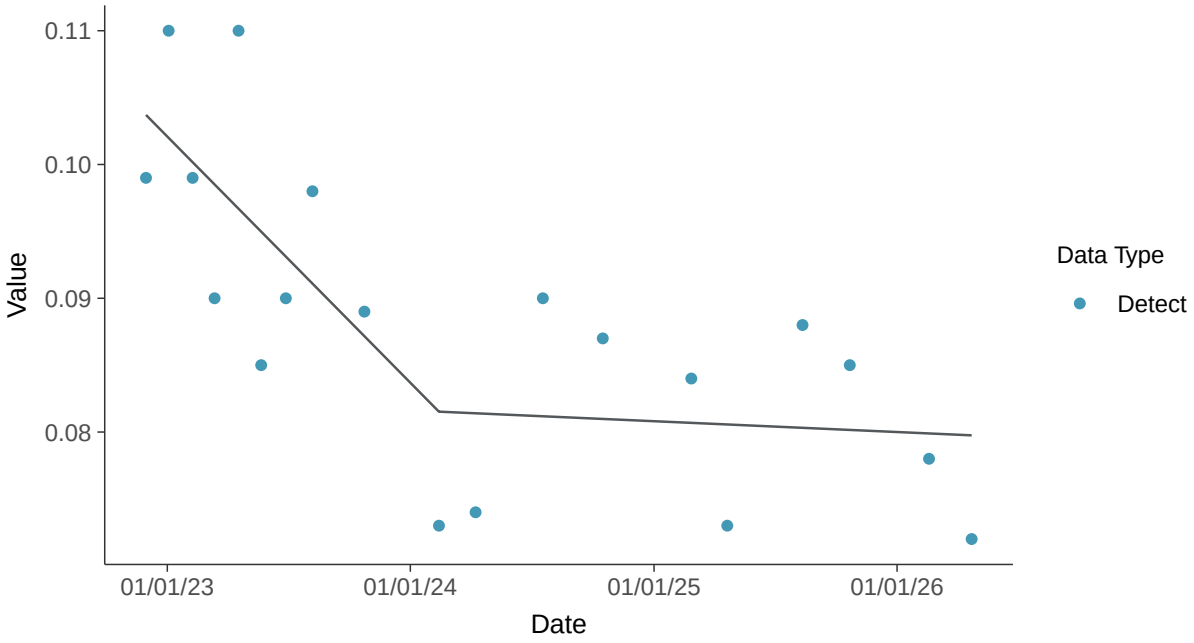
Trend Regression: Lognormal MLE

Lithium, MW-19 (mg/L)



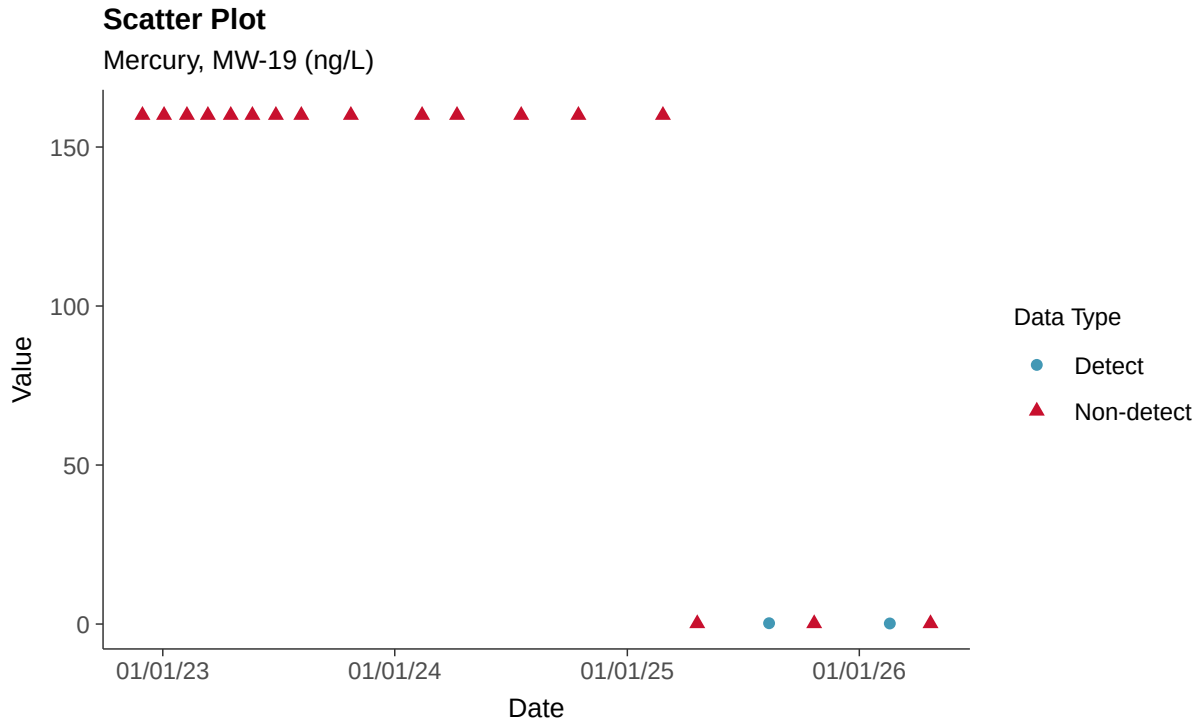
Trend Regression: Piecewise Linear-Linear

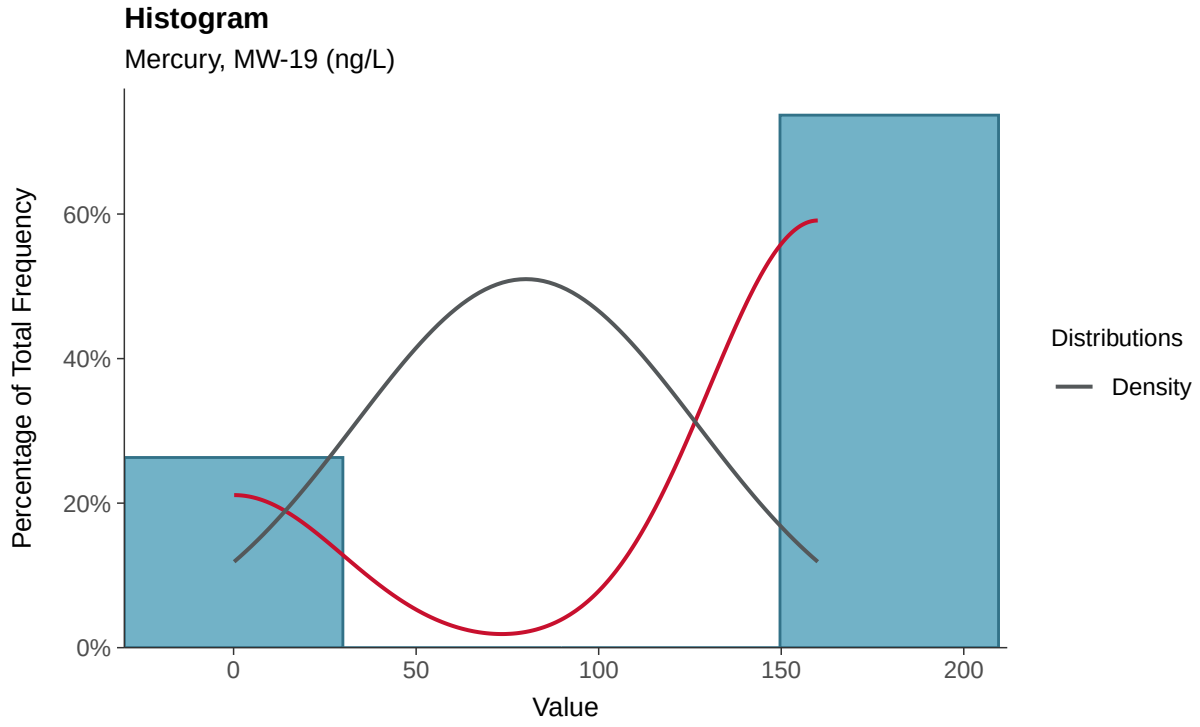
Lithium, MW-19 (mg/L)



Appendix IV: Mercury, MW-19

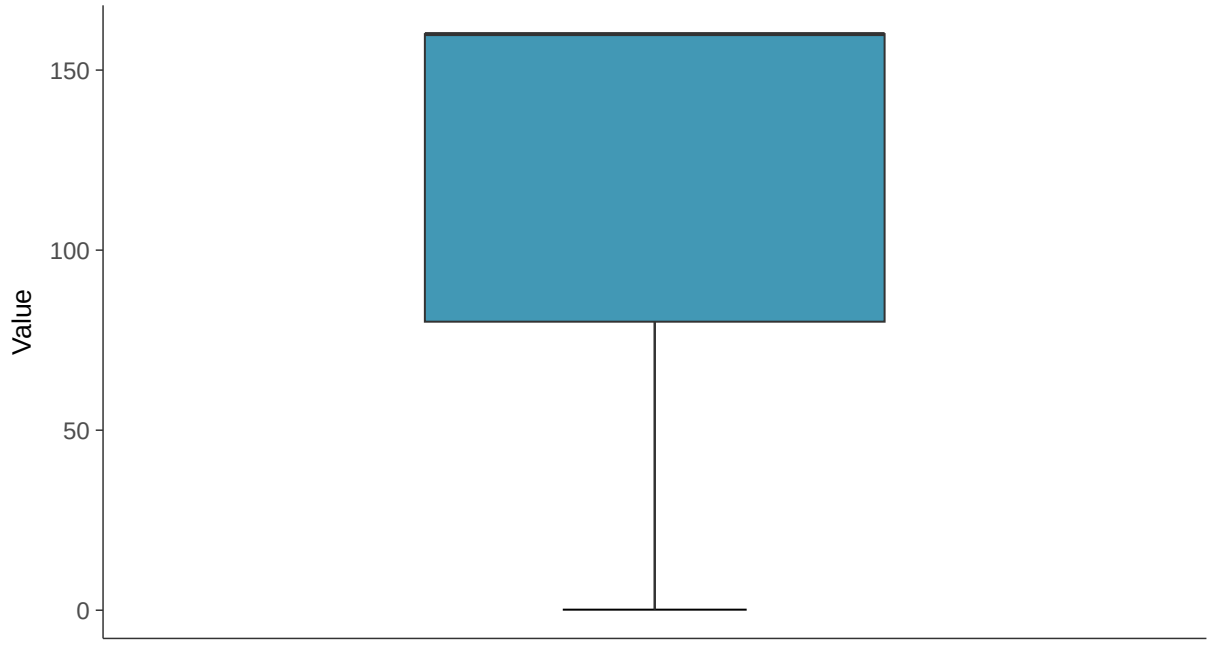
ID: 29_1_4_117





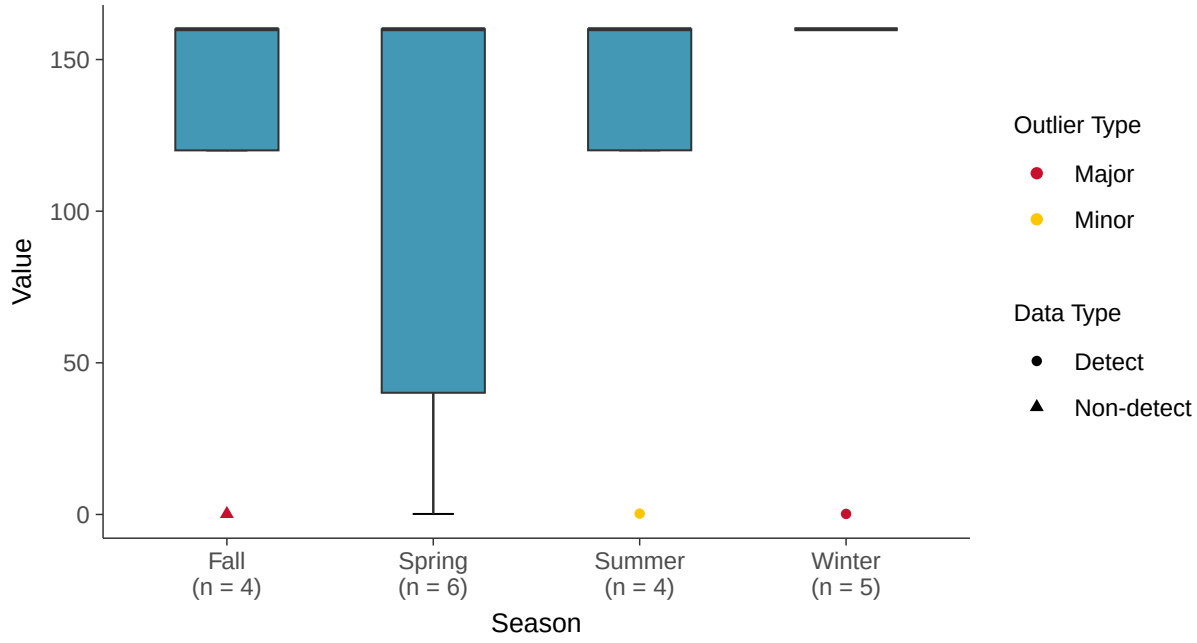
Boxplot

Mercury, MW-19 (ng/L)



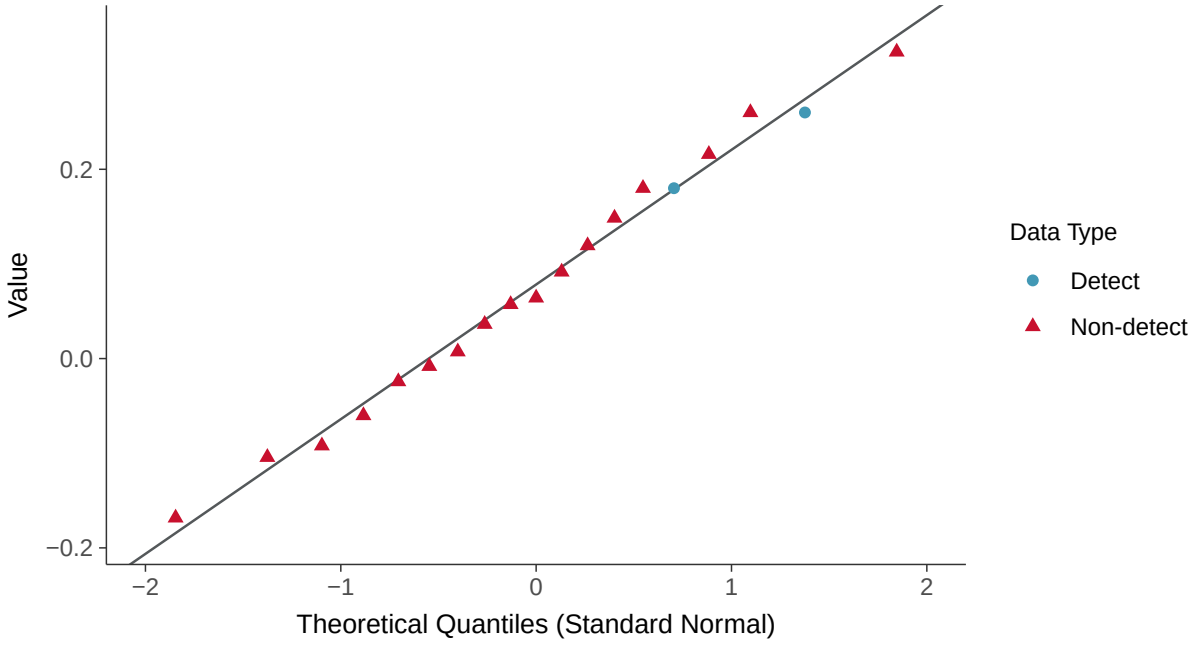
Boxplot by Season

Mercury, MW-19 (ng/L)



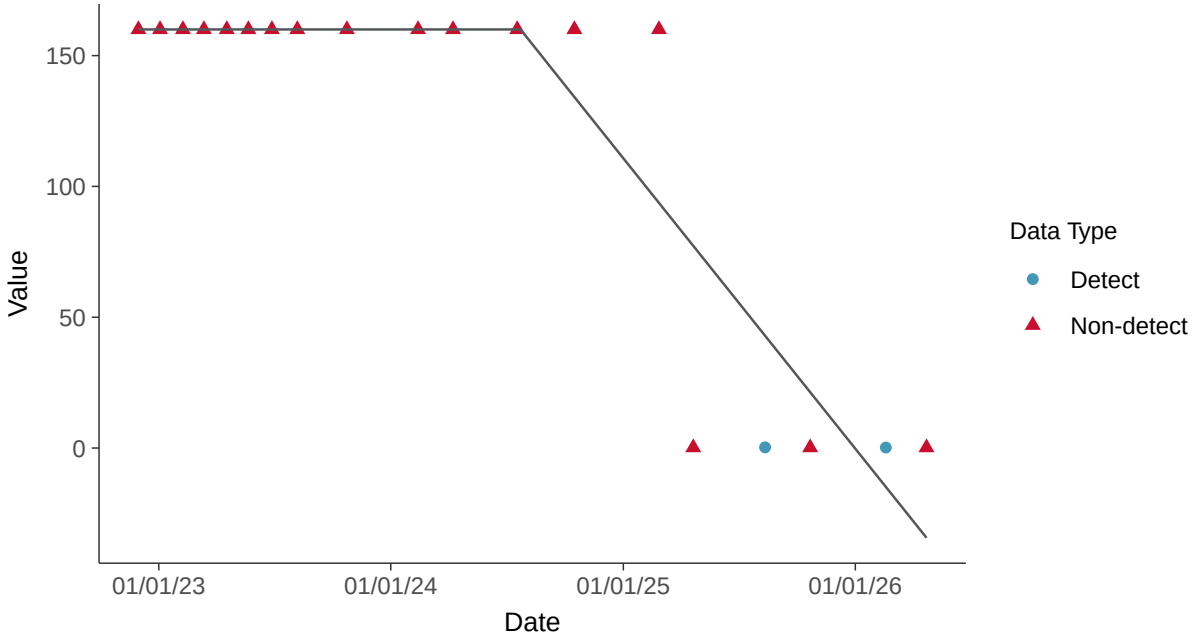
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-19 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-19 (ng/L)

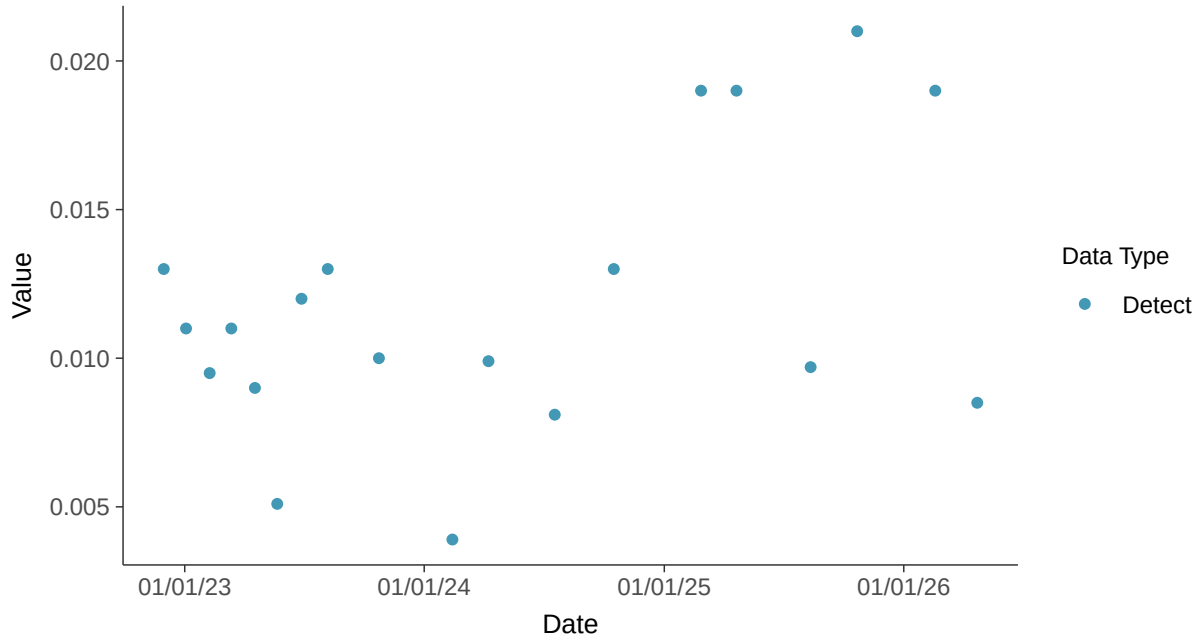


Appendix IV: Molybdenum, MW-19

ID: 29_1_4_118

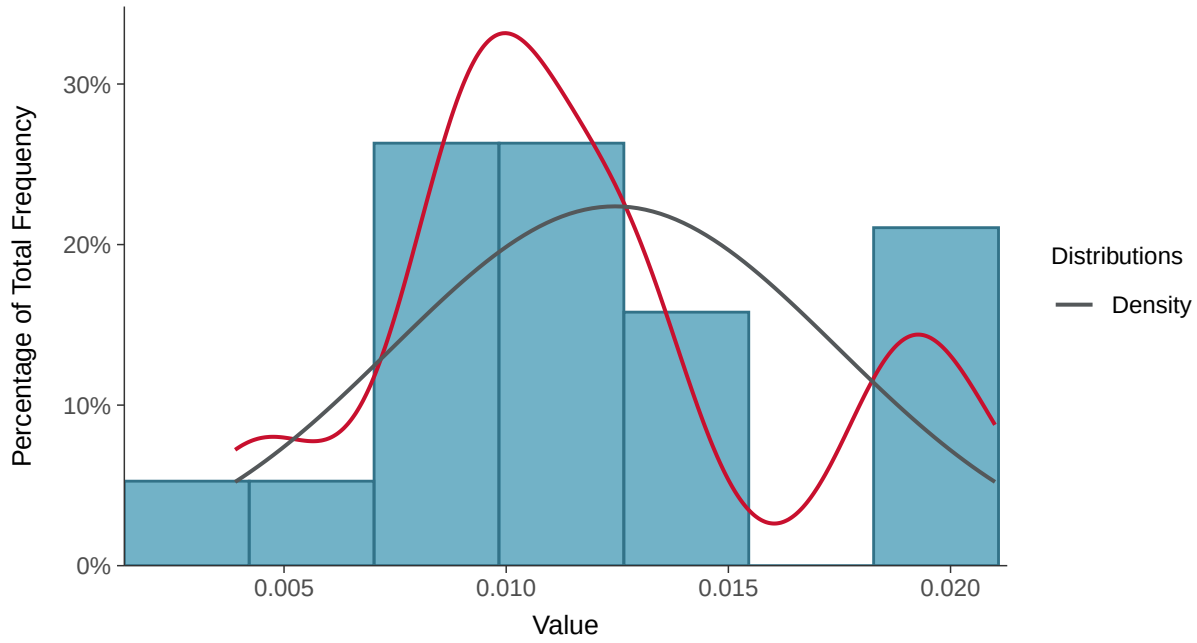
Scatter Plot

Molybdenum, MW-19 (mg/L)



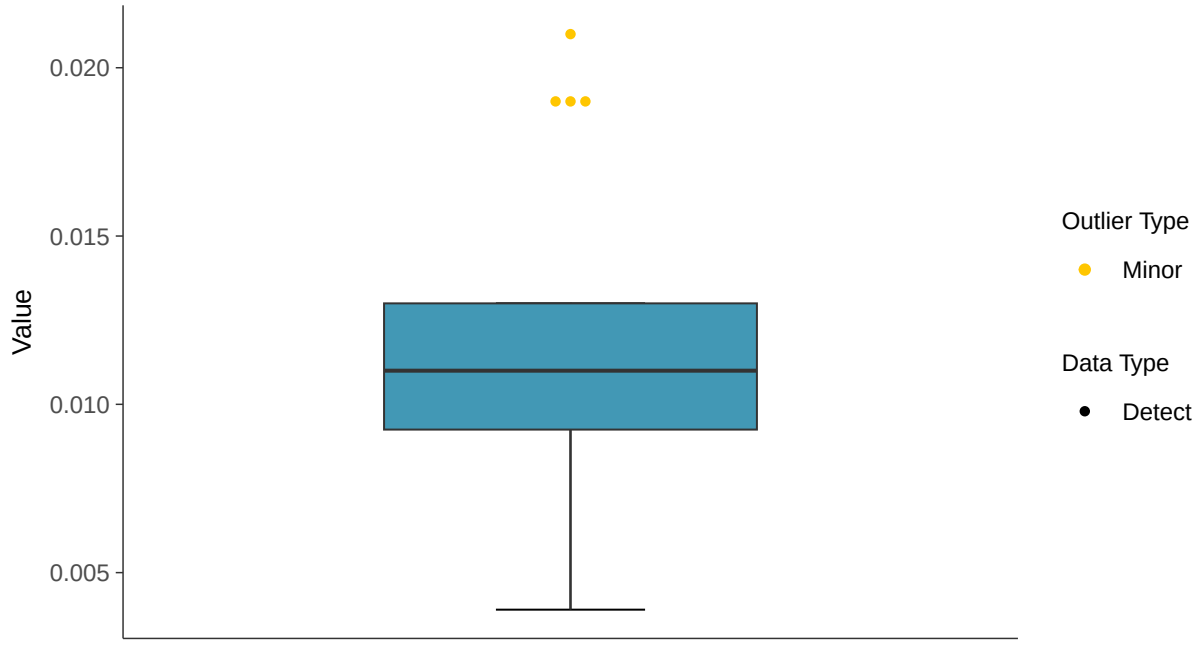
Histogram

Molybdenum, MW-19 (mg/L)



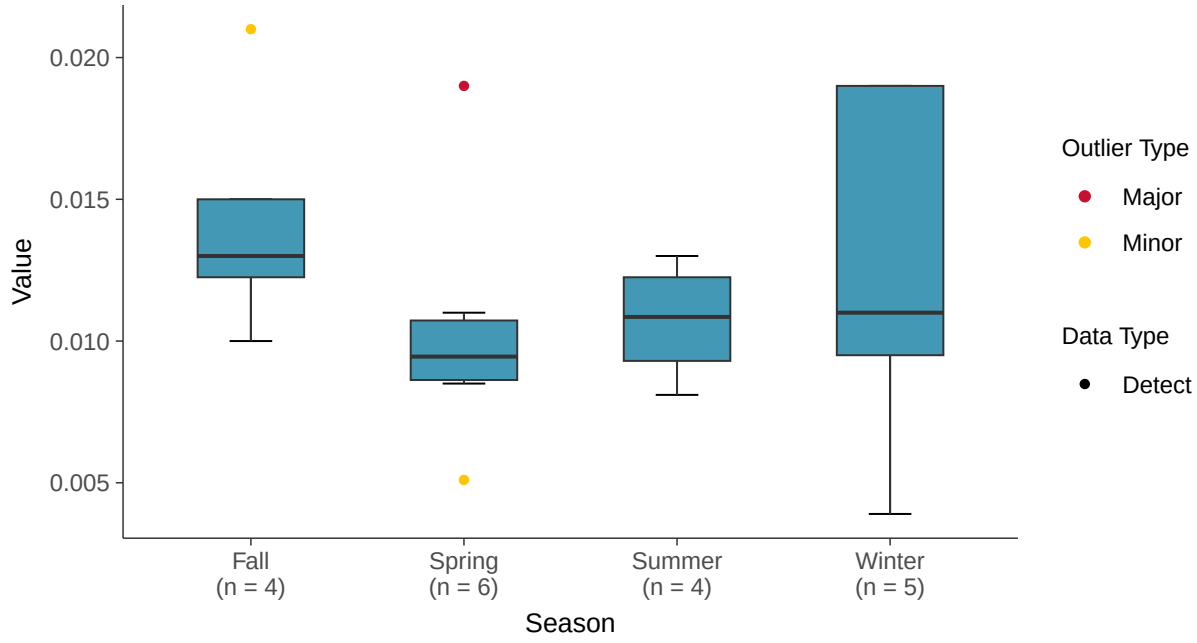
Boxplot

Molybdenum, MW-19 (mg/L)



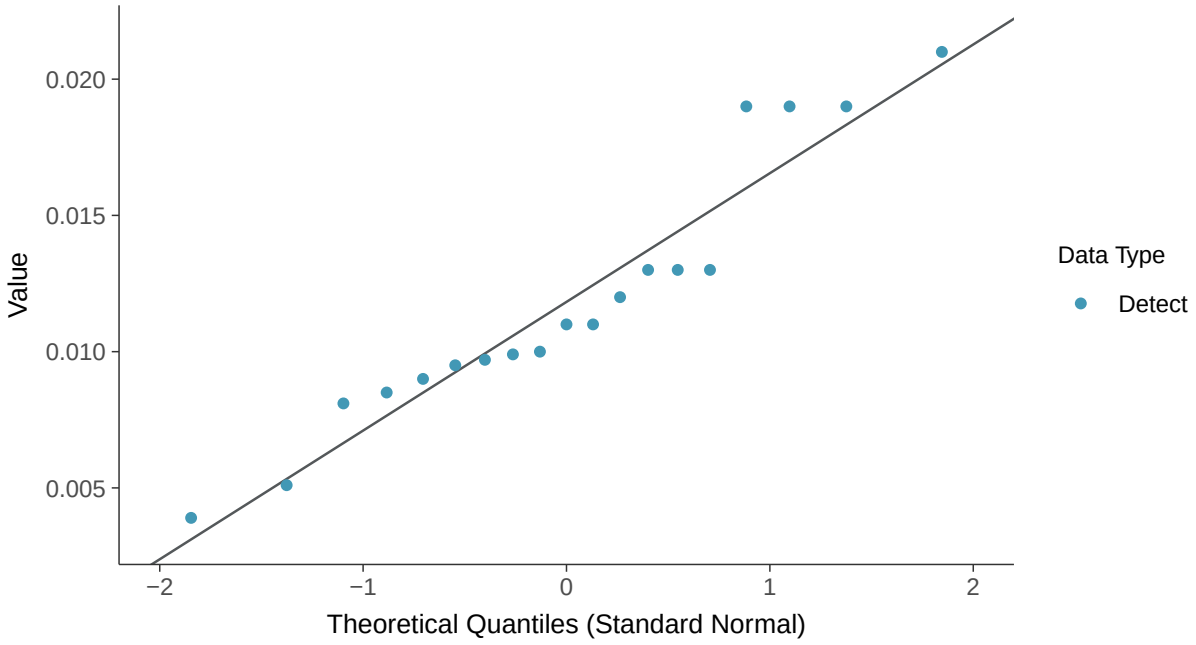
Boxplot by Season

Molybdenum, MW-19 (mg/L)



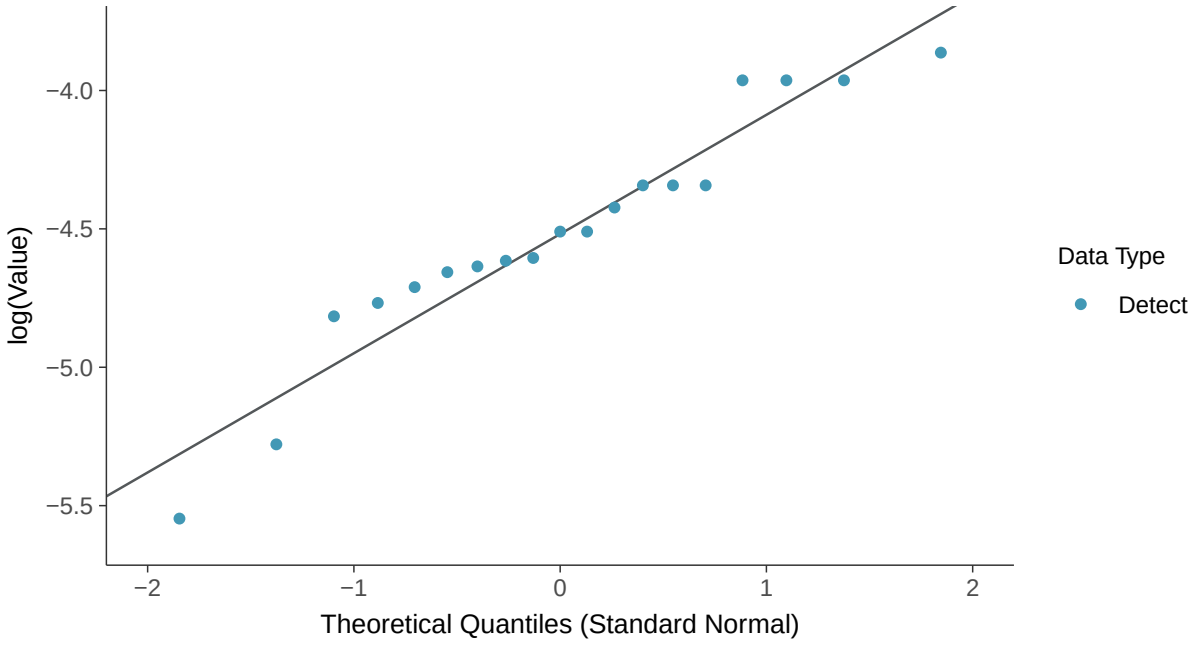
Normal Q-Q plot

Molybdenum, MW-19 (mg/L)



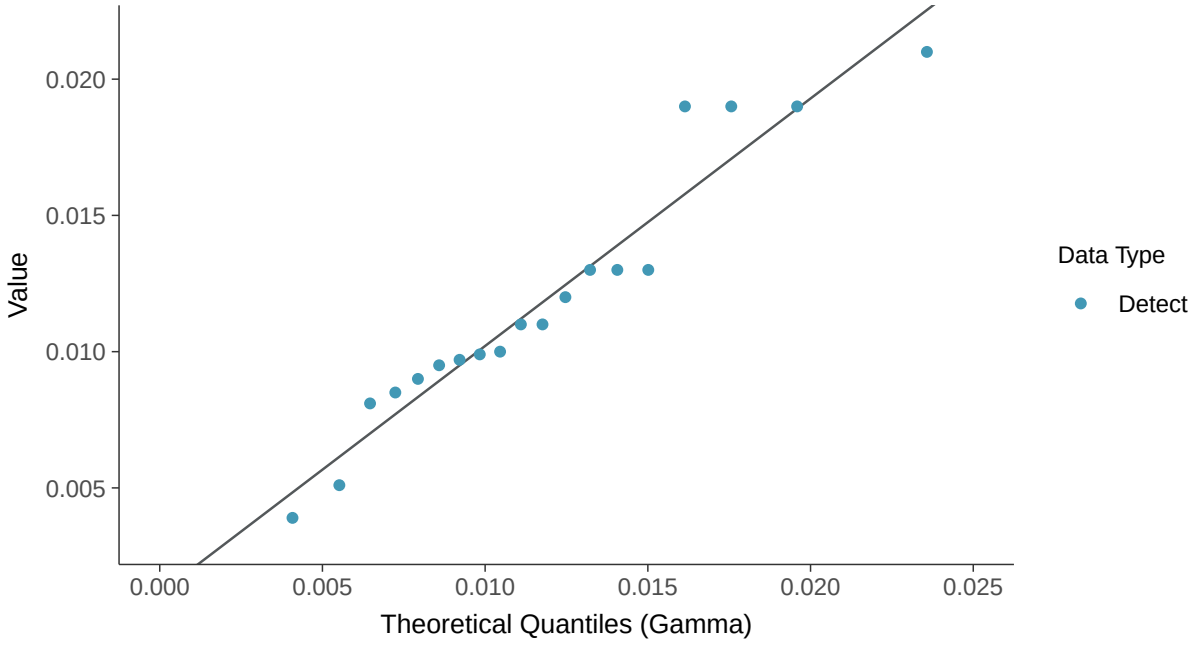
Lognormal Q-Q plot

Molybdenum, MW-19 (mg/L)



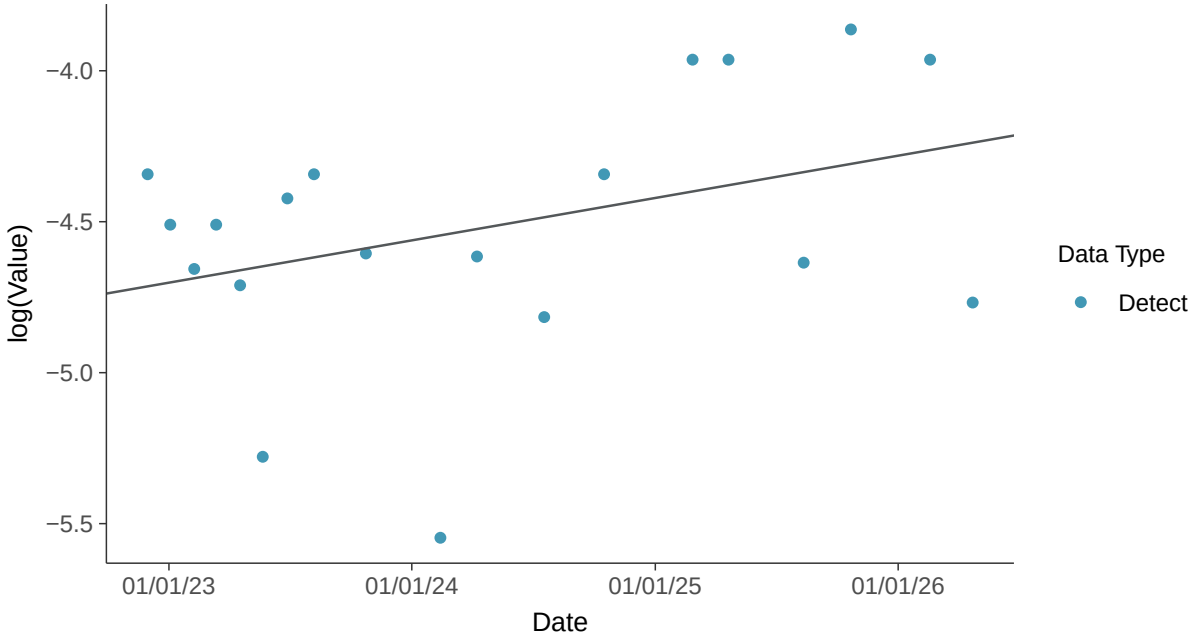
Gamma Q-Q plot

Molybdenum, MW-19 (mg/L)



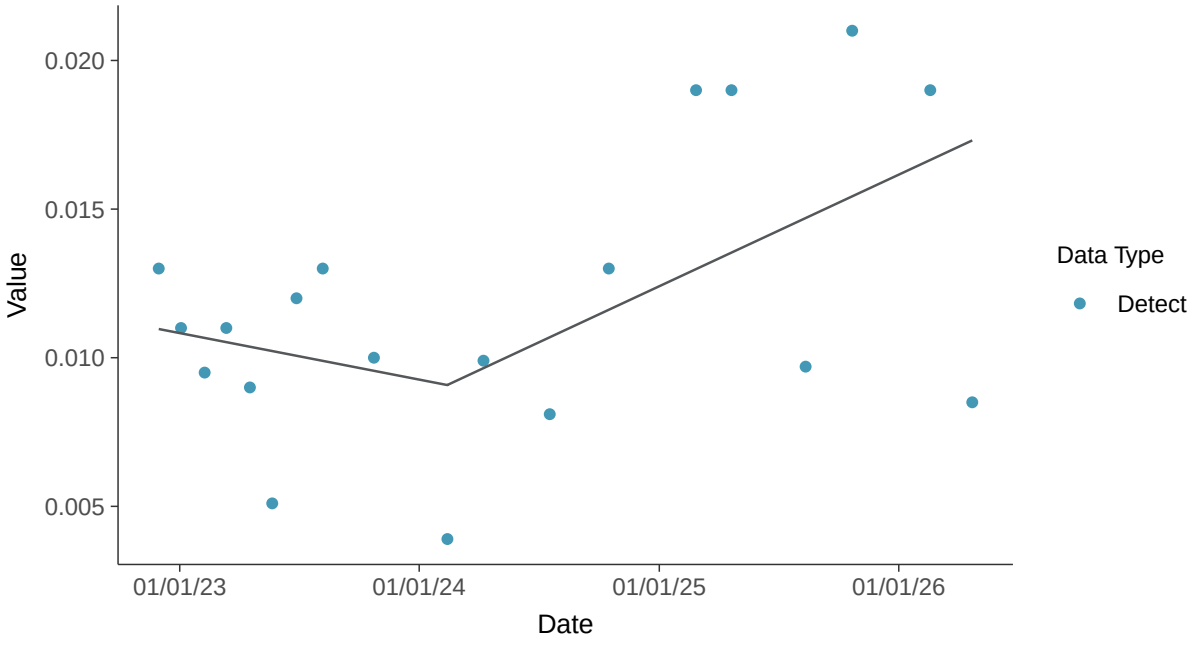
Trend Regression: Lognormal MLE

Molybdenum, MW-19 (mg/L)



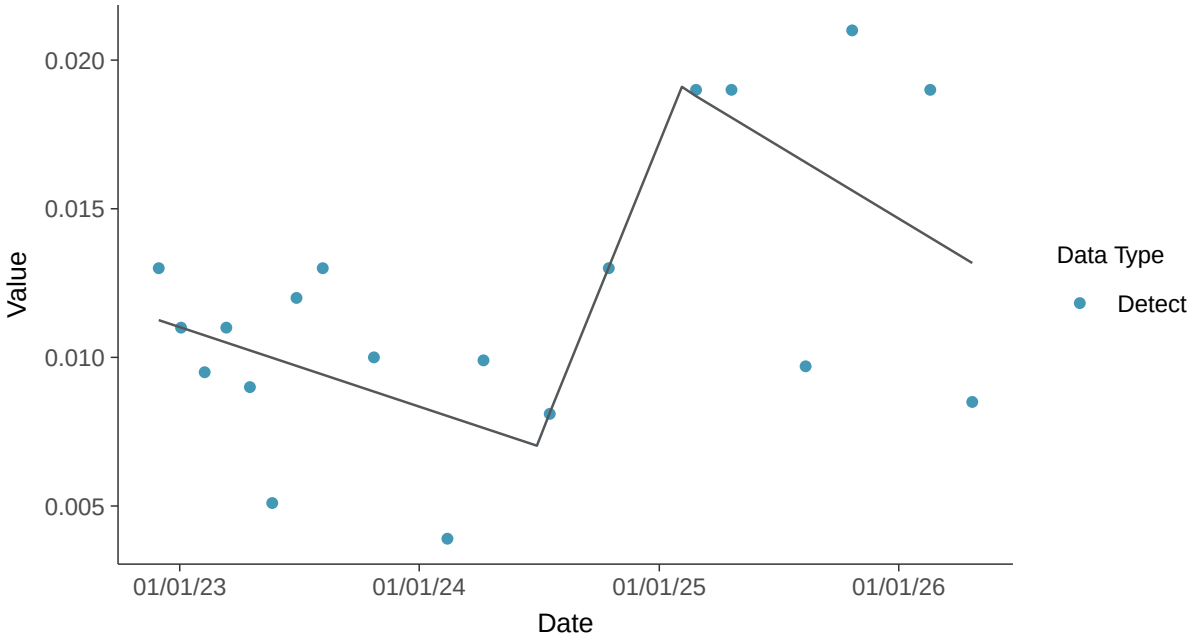
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-19 (mg/L)

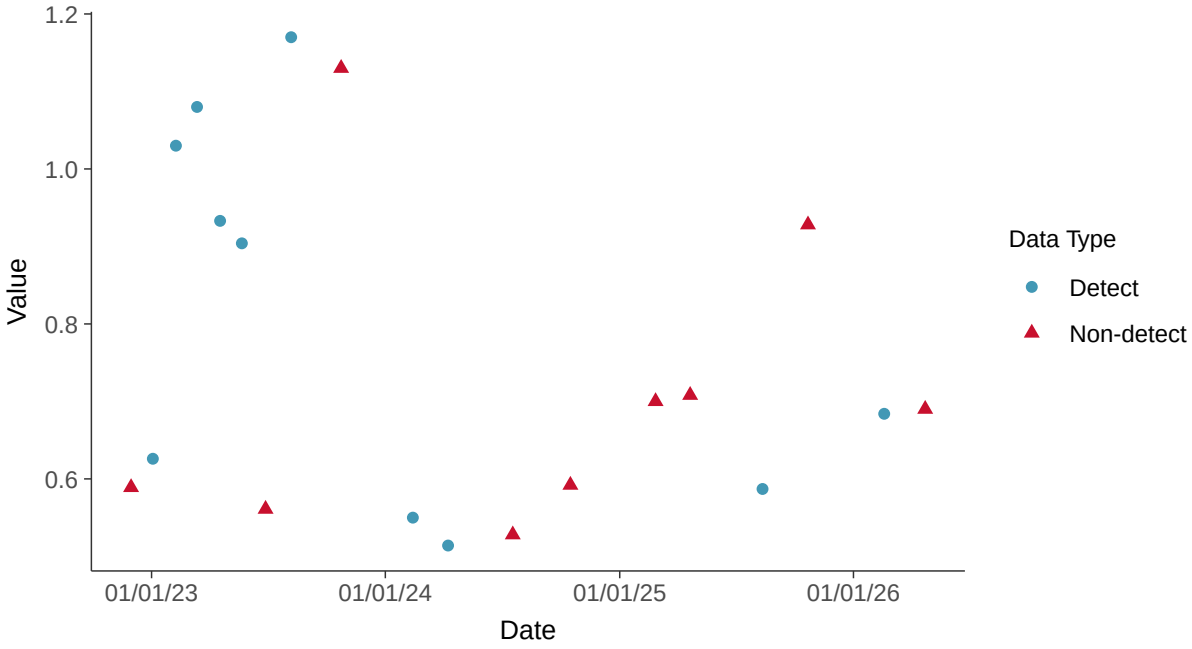


Appendix IV: Radium 226 and 228, MW-19

ID: 29_1_4_121

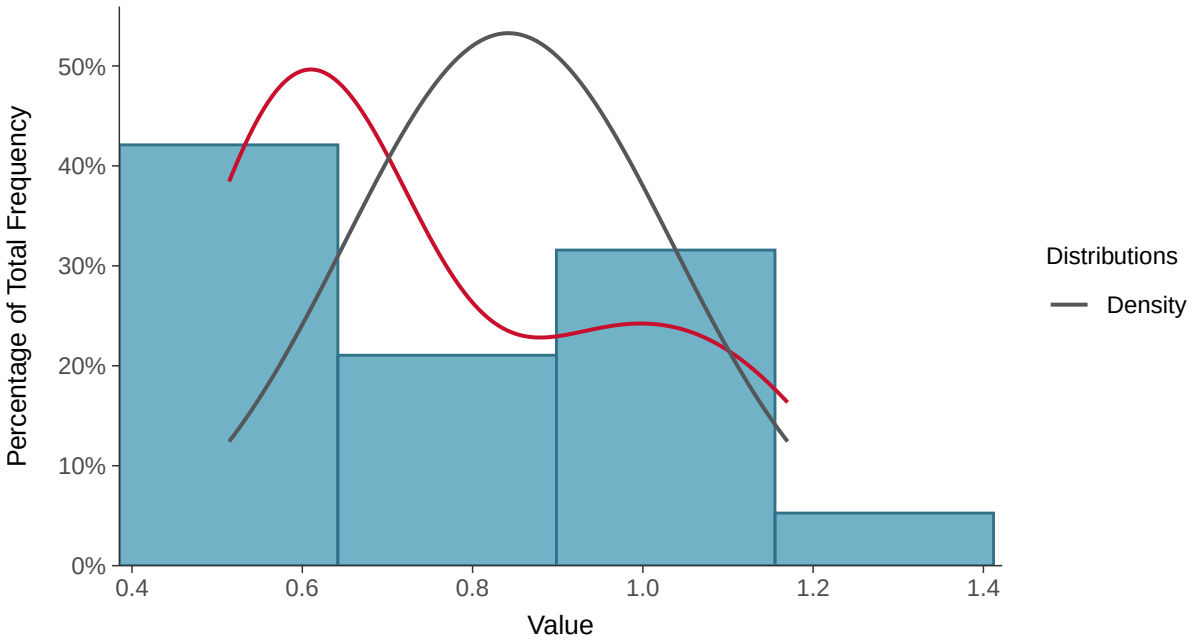
Scatter Plot

Radium 226 and 228, MW-19 (pCi/L)



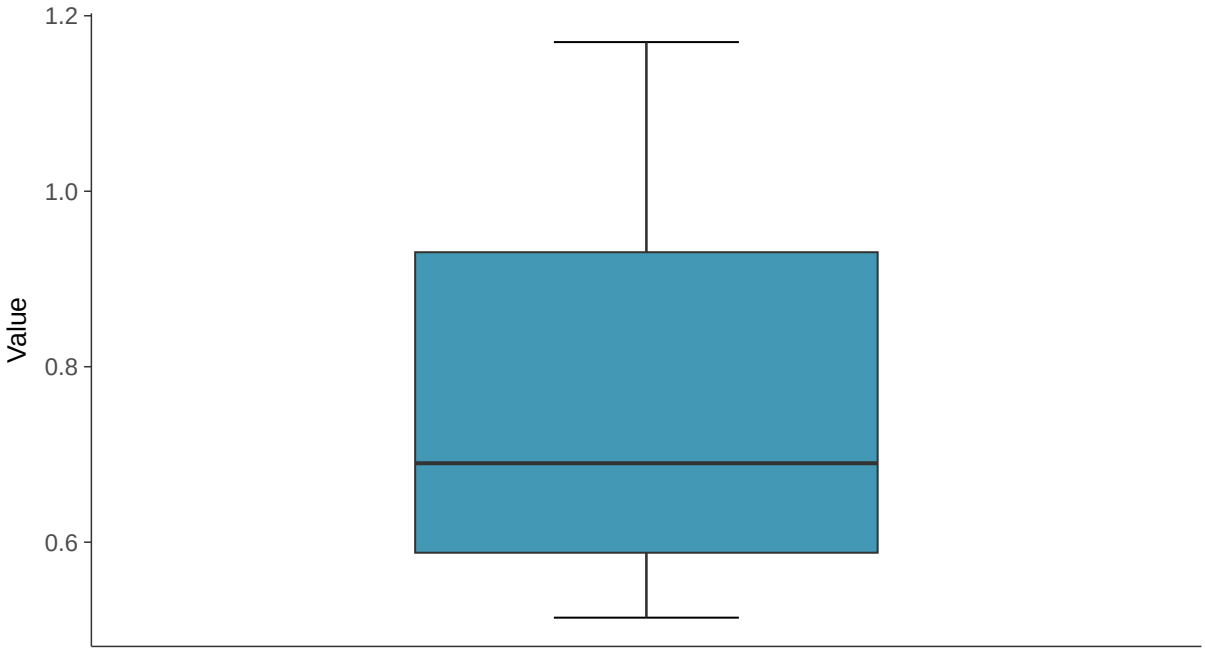
Histogram

Radium 226 and 228, MW-19 (pCi/L)



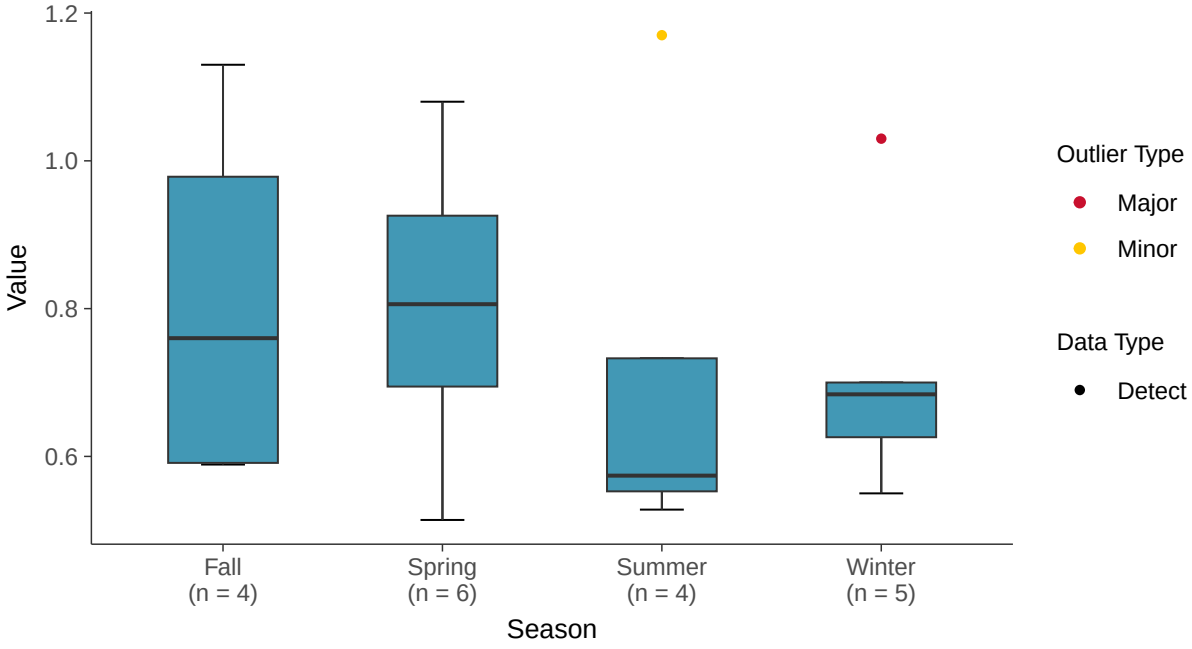
Boxplot

Radium 226 and 228, MW-19 (pCi/L)



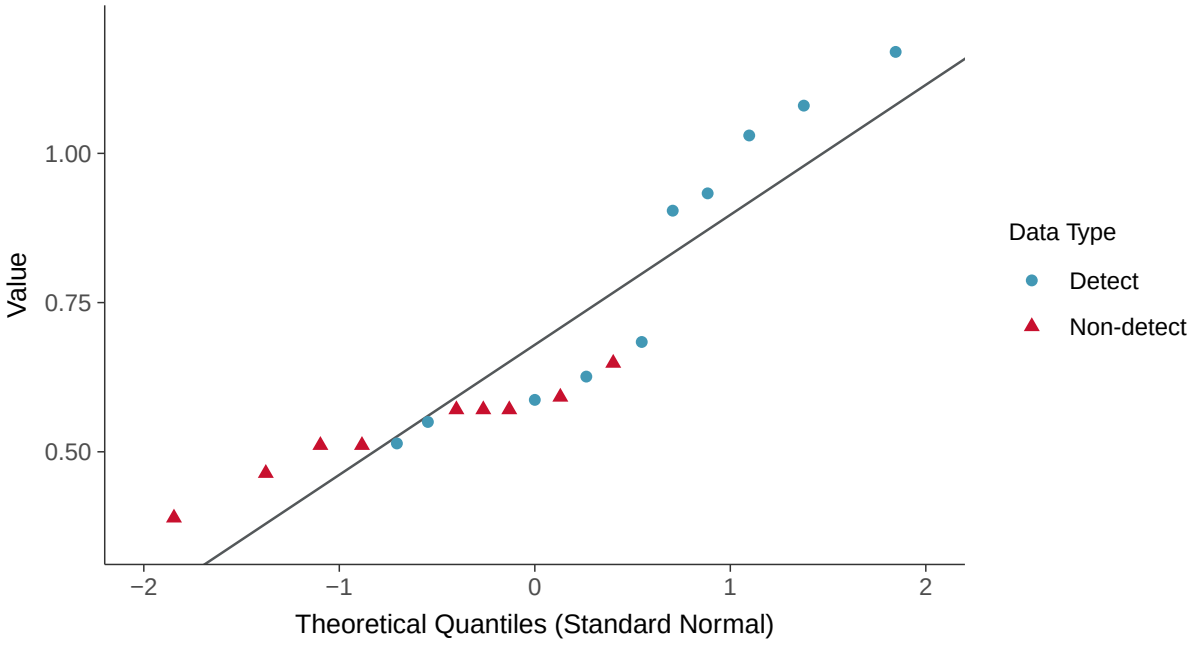
Boxplot by Season

Radium 226 and 228, MW-19 (pCi/L)



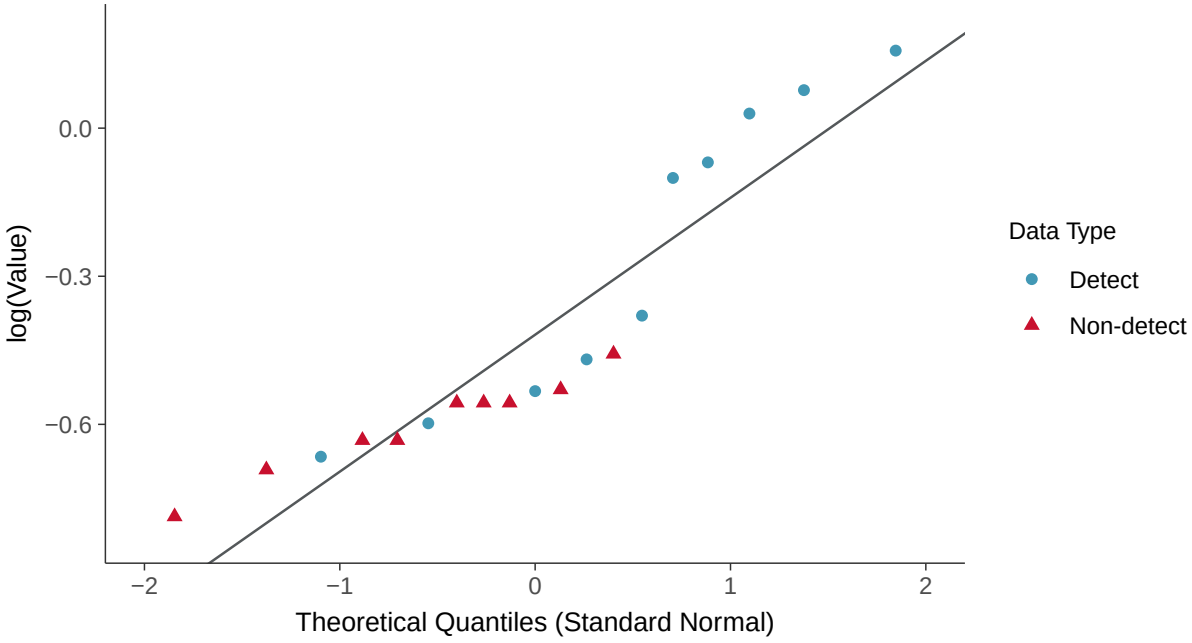
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-19 (pCi/L)



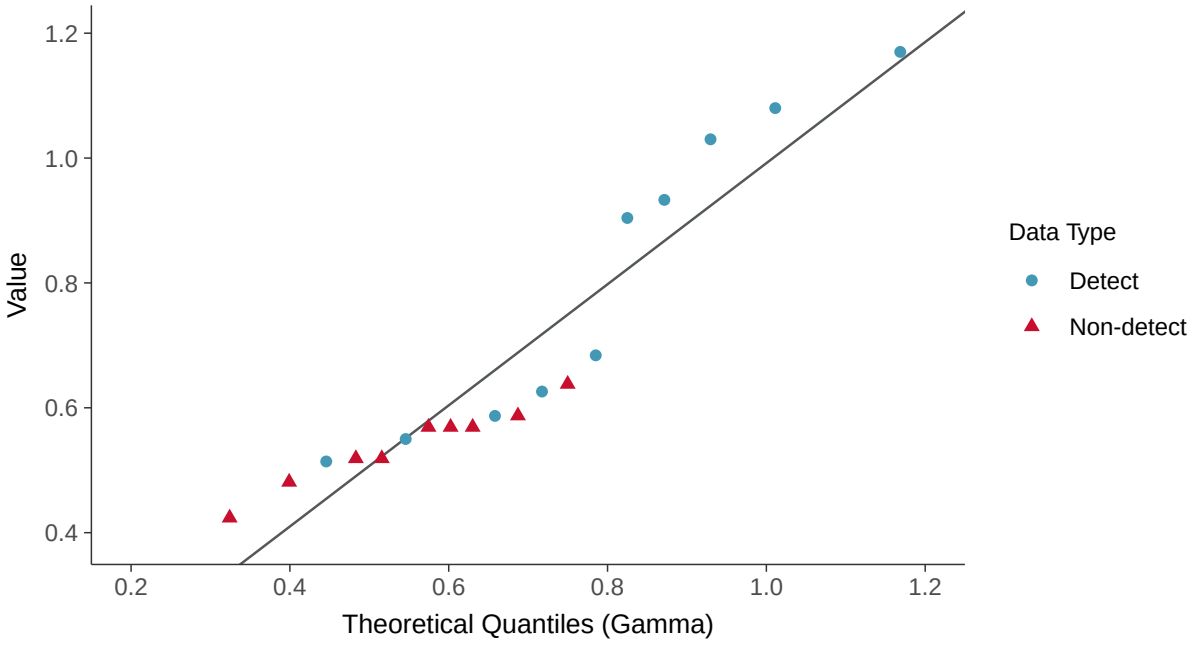
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-19 (pCi/L)



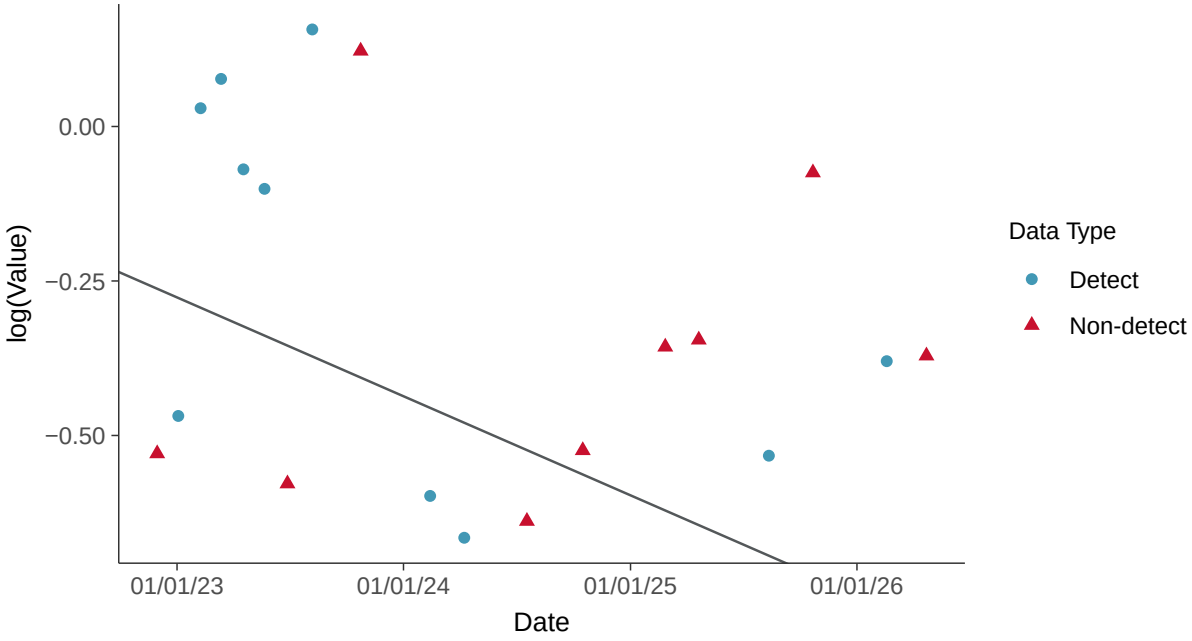
Gamma Q-Q plot using ROS Imputed Estimates

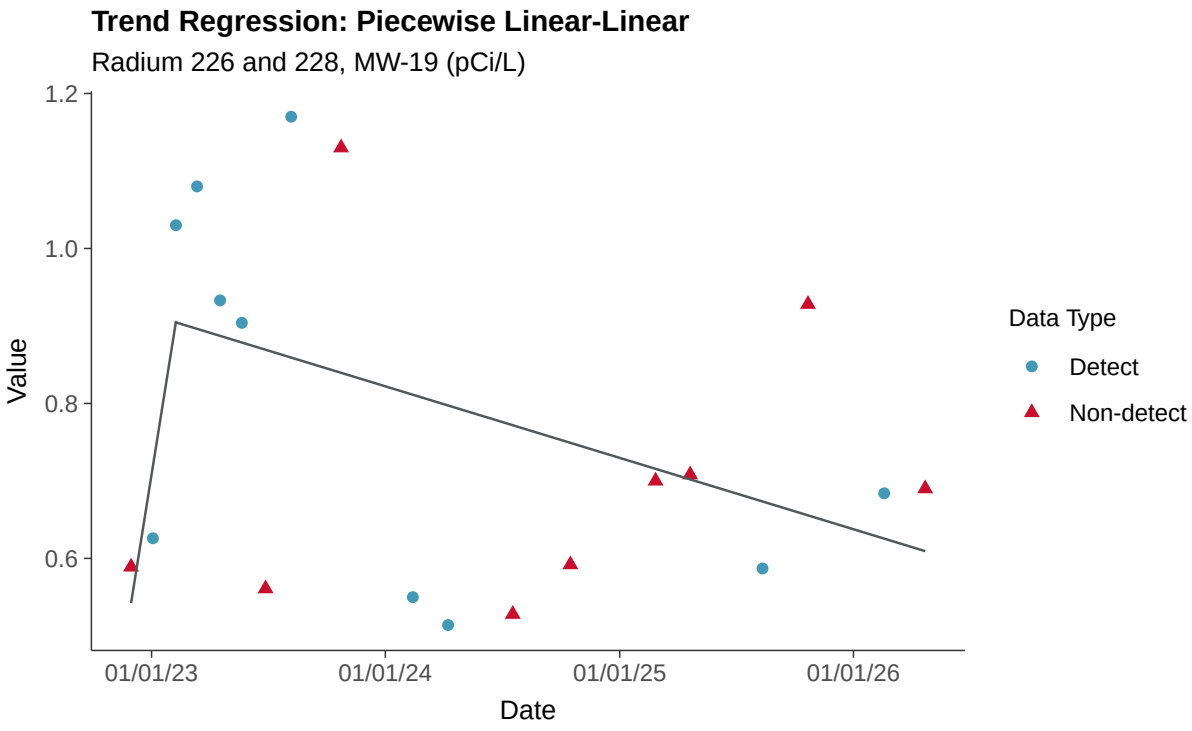
Radium 226 and 228, MW-19 (pCi/L)



Trend Regression: Lognormal MLE

Radium 226 and 228, MW-19 (pCi/L)



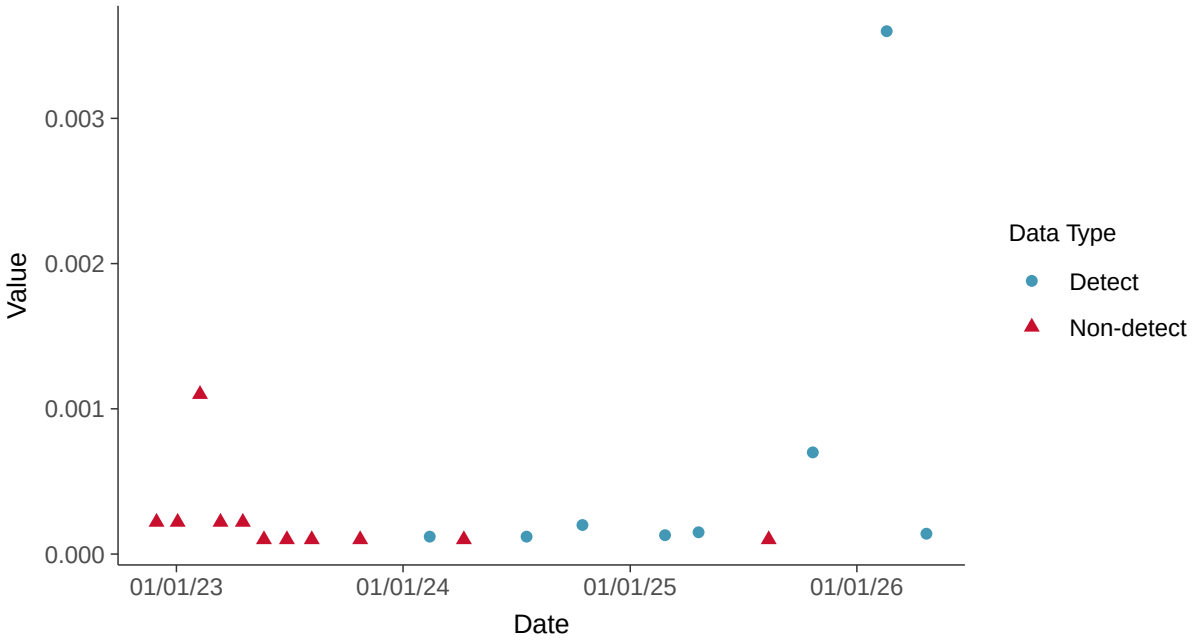

Trend Regression: Piecewise Linear-Linear
Radium 226 and 228, MW-19 (pCi/L)
Value
1.2
1.0
0.8
0.6
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Selenium, MW-19

ID: 29_1_4_122

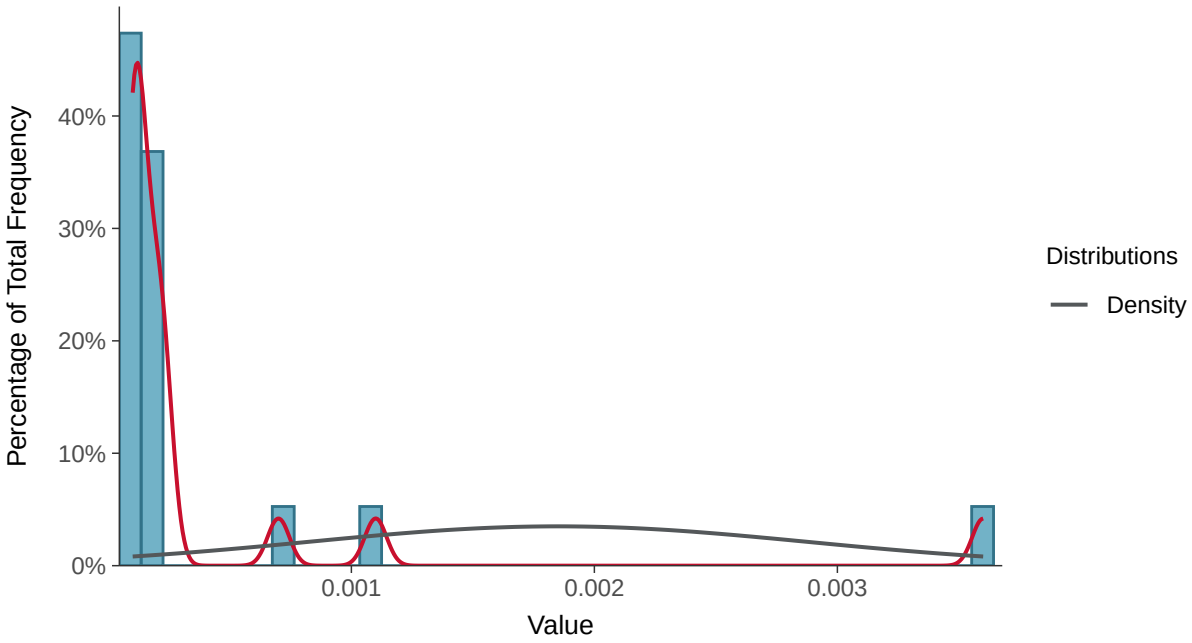
Scatter Plot

Selenium, MW-19 (mg/L)



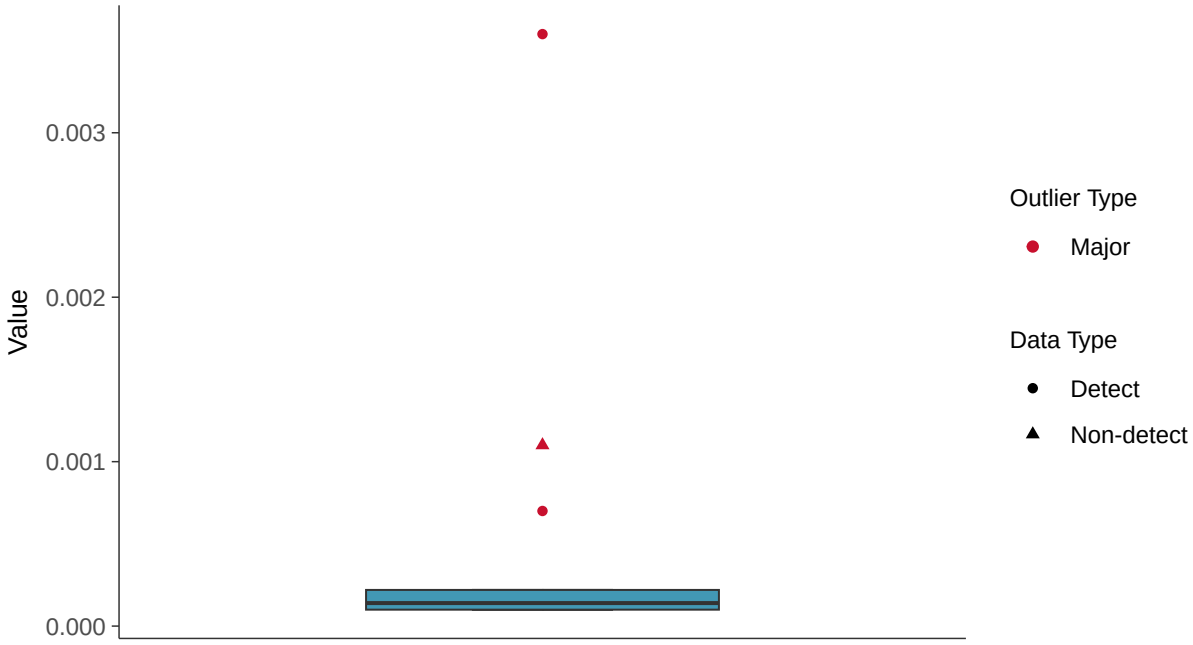
Histogram

Selenium, MW-19 (mg/L)



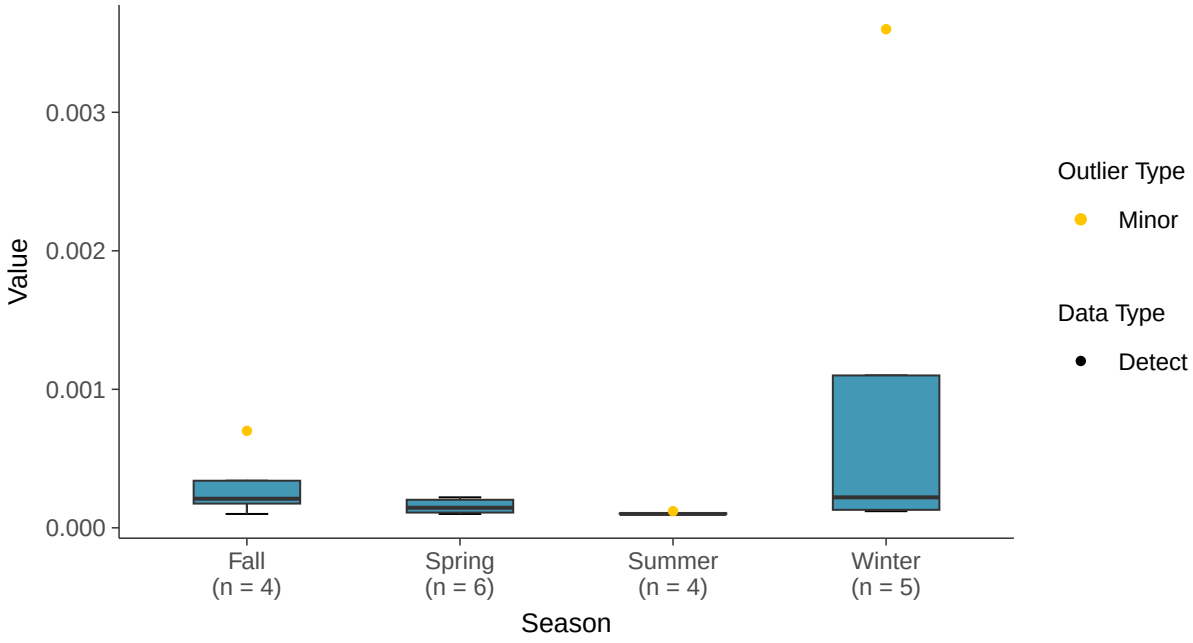
Boxplot

Selenium, MW-19 (mg/L)



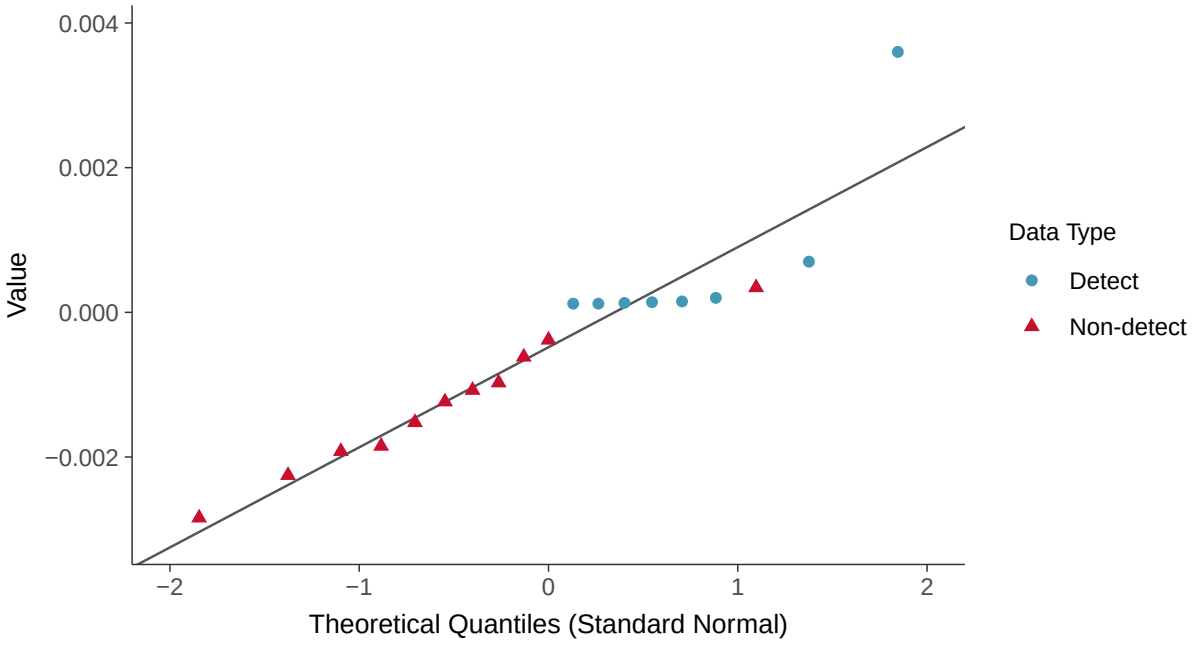
Boxplot by Season

Selenium, MW-19 (mg/L)



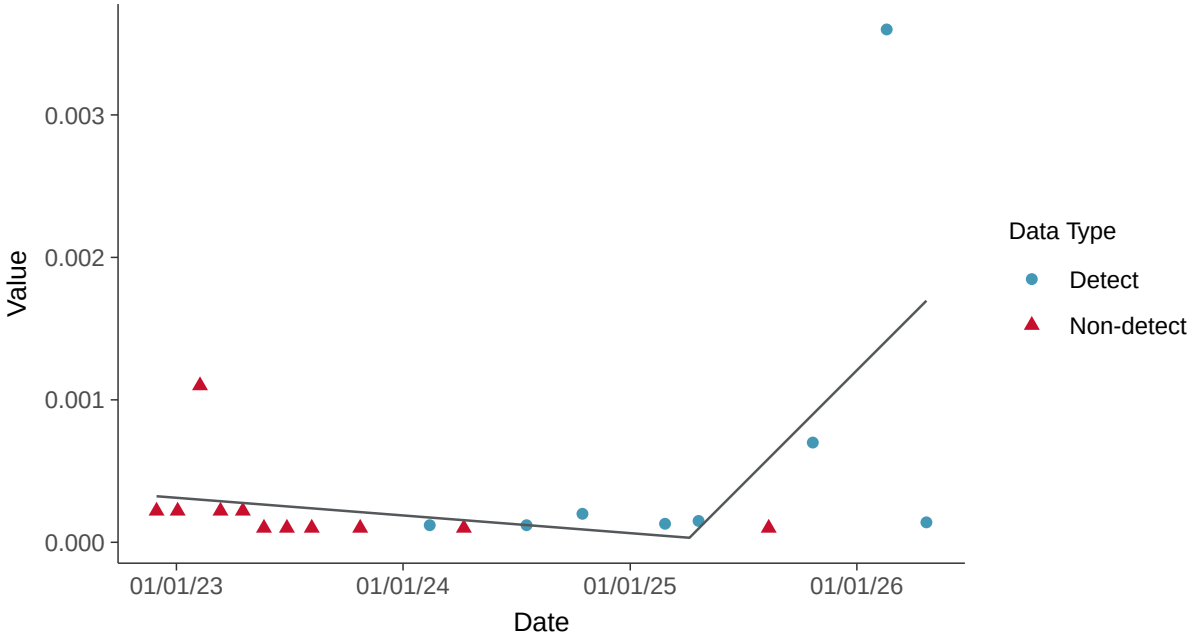
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-19 (mg/L)



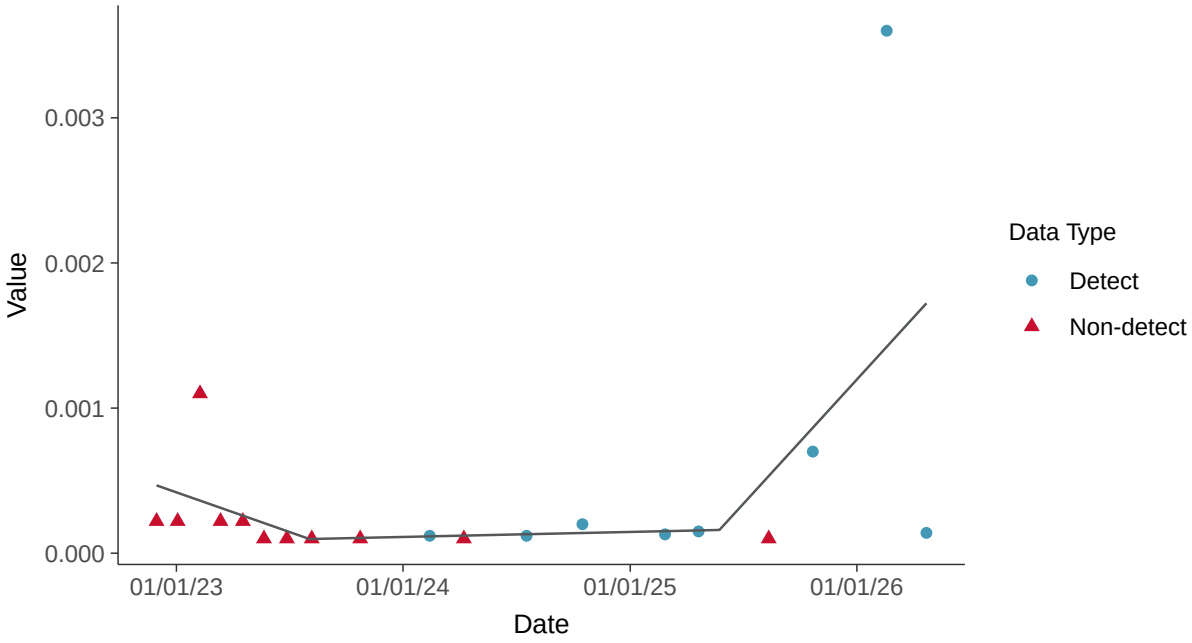
Trend Regression: Piecewise Linear-Linear

Selenium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-19 (mg/L)

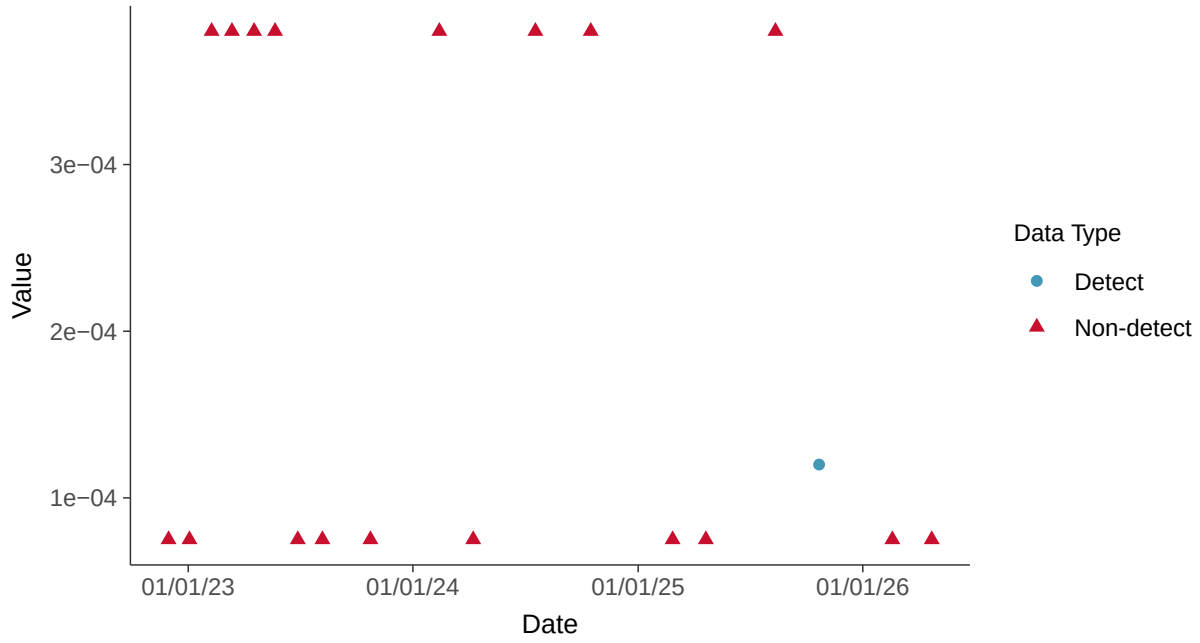


Appendix IV: Thallium, MW-19

ID: 29_1_4_125

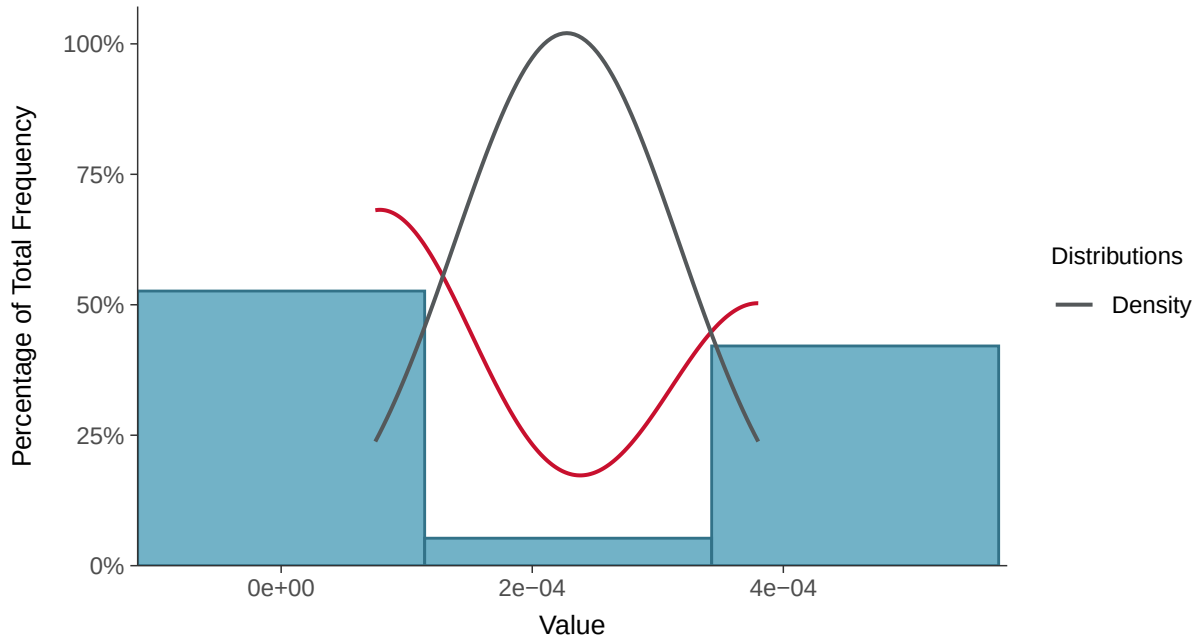
Scatter Plot

Thallium, MW-19 (mg/L)



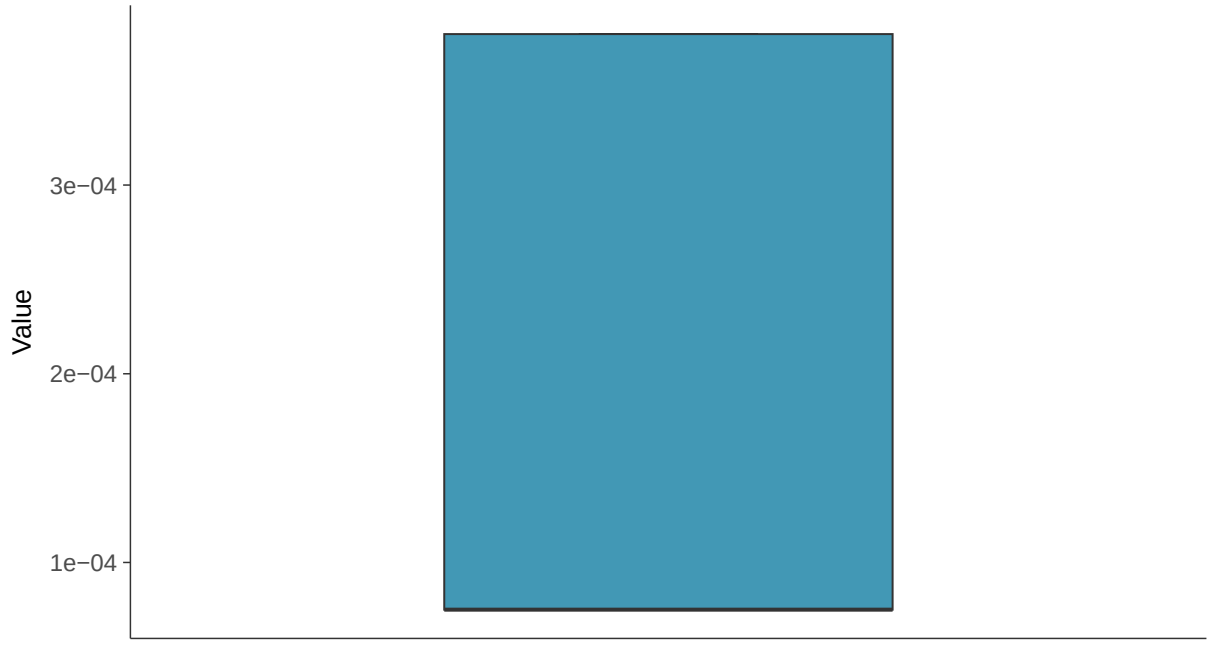
Histogram

Thallium, MW-19 (mg/L)



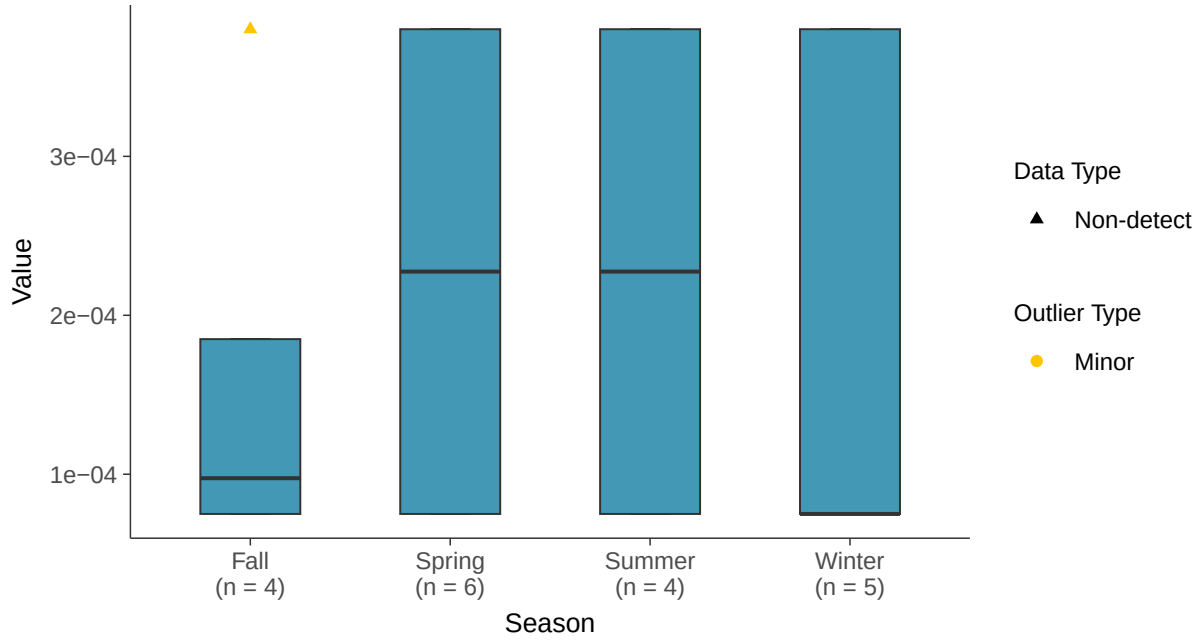
Boxplot

Thallium, MW-19 (mg/L)



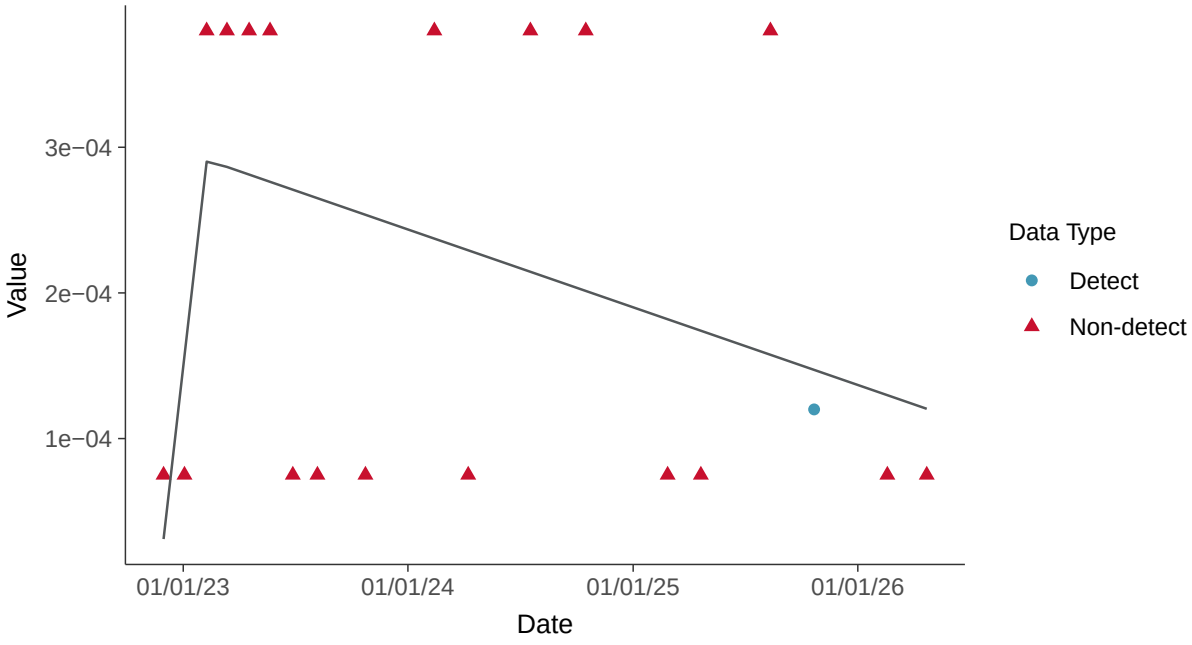
Boxplot by Season

Thallium, MW-19 (mg/L)



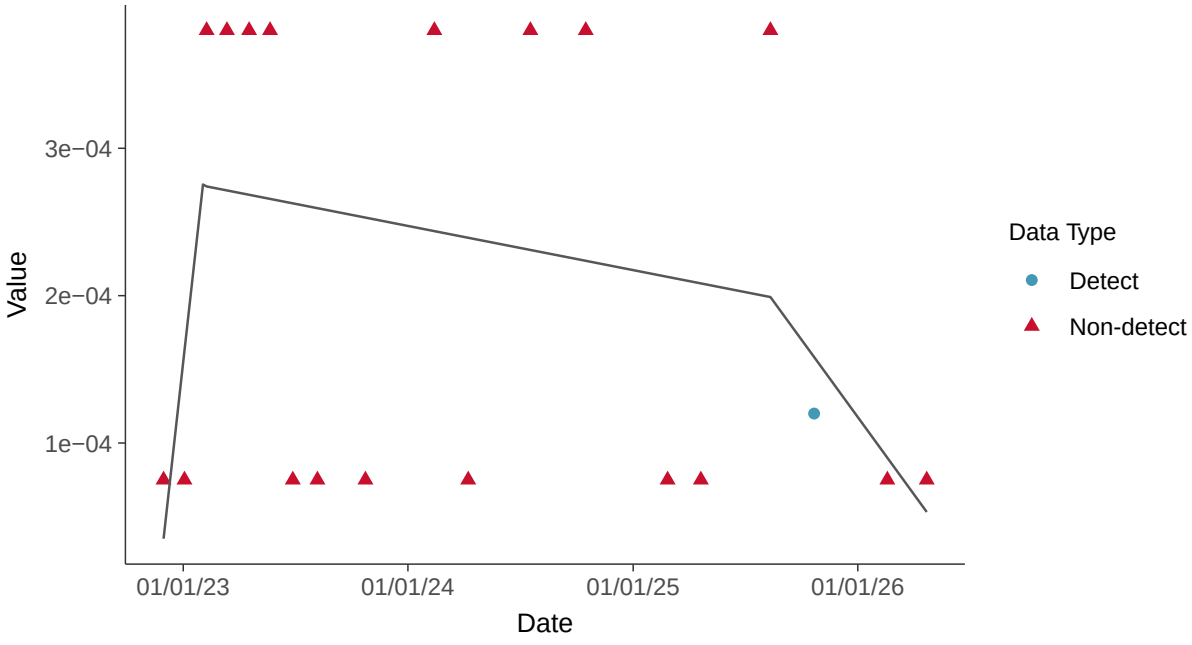
Trend Regression: Piecewise Linear-Linear

Thallium, MW-19 (mg/L)



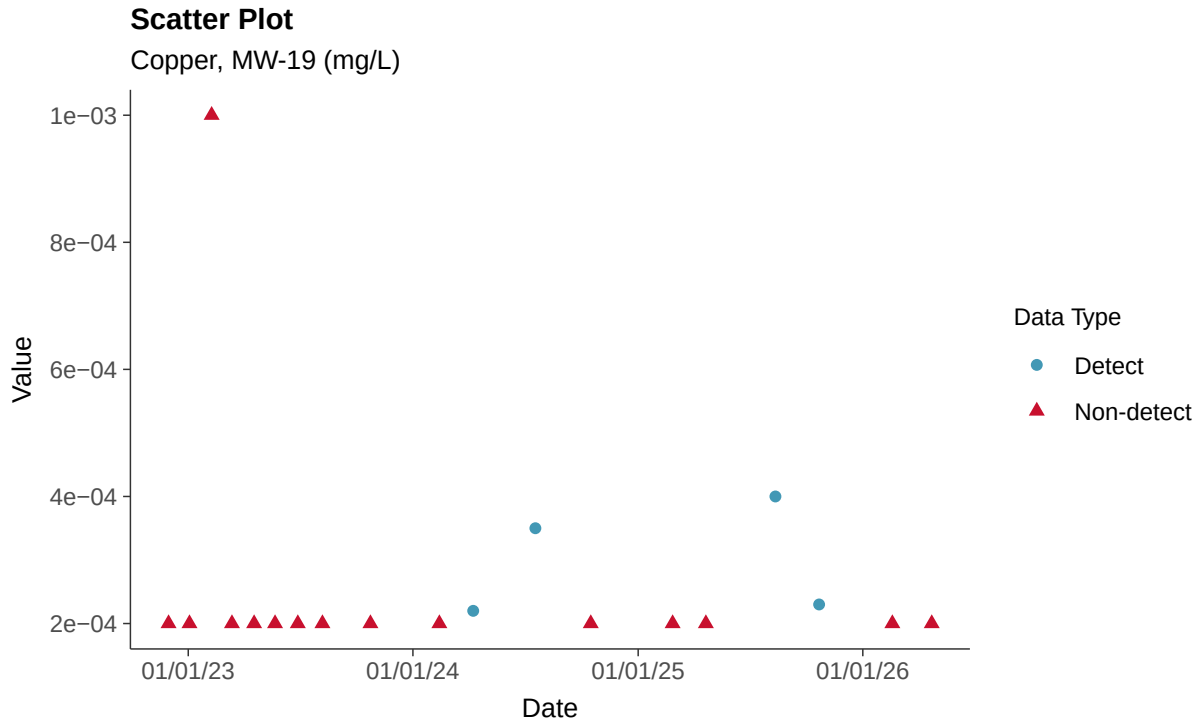
Trend Regression: Piecewise Linear-Linear-Linear

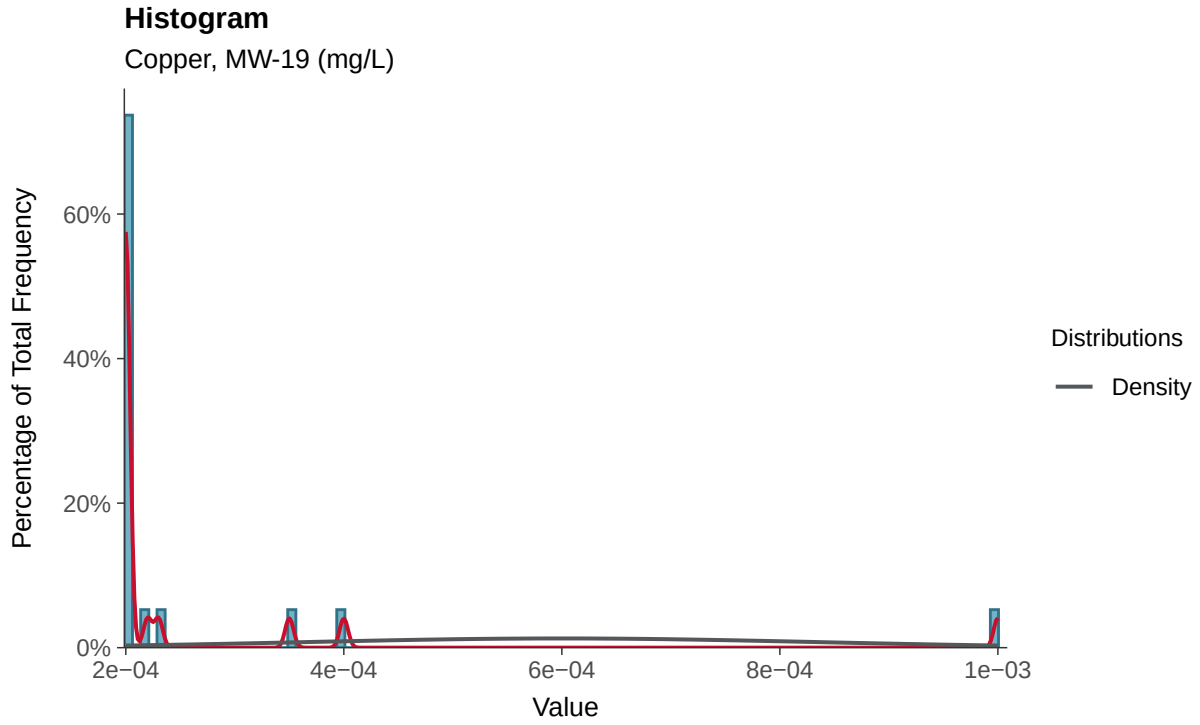
Thallium, MW-19 (mg/L)



Part 115: Copper, MW-19

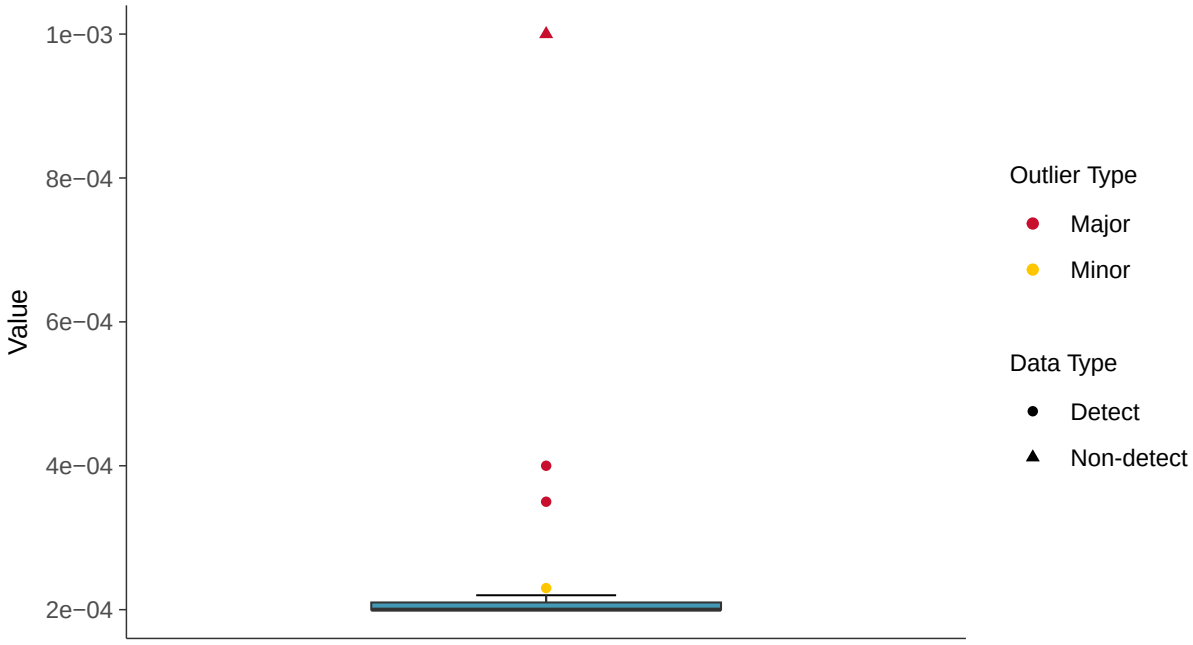
ID: 29_1_5_111





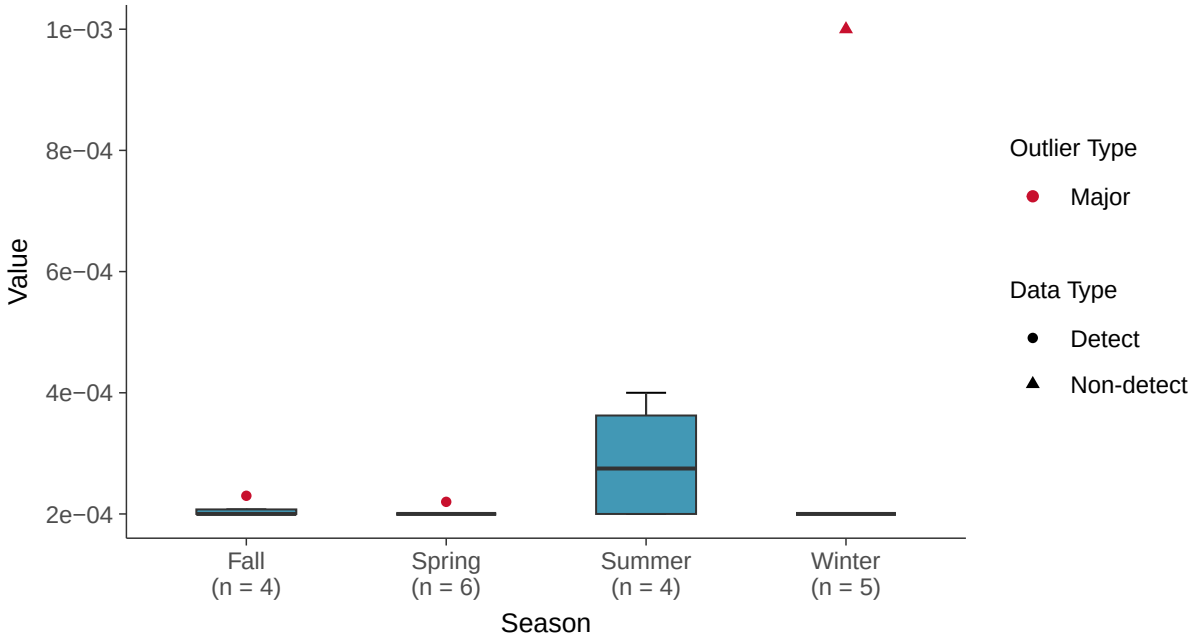
Boxplot

Copper, MW-19 (mg/L)



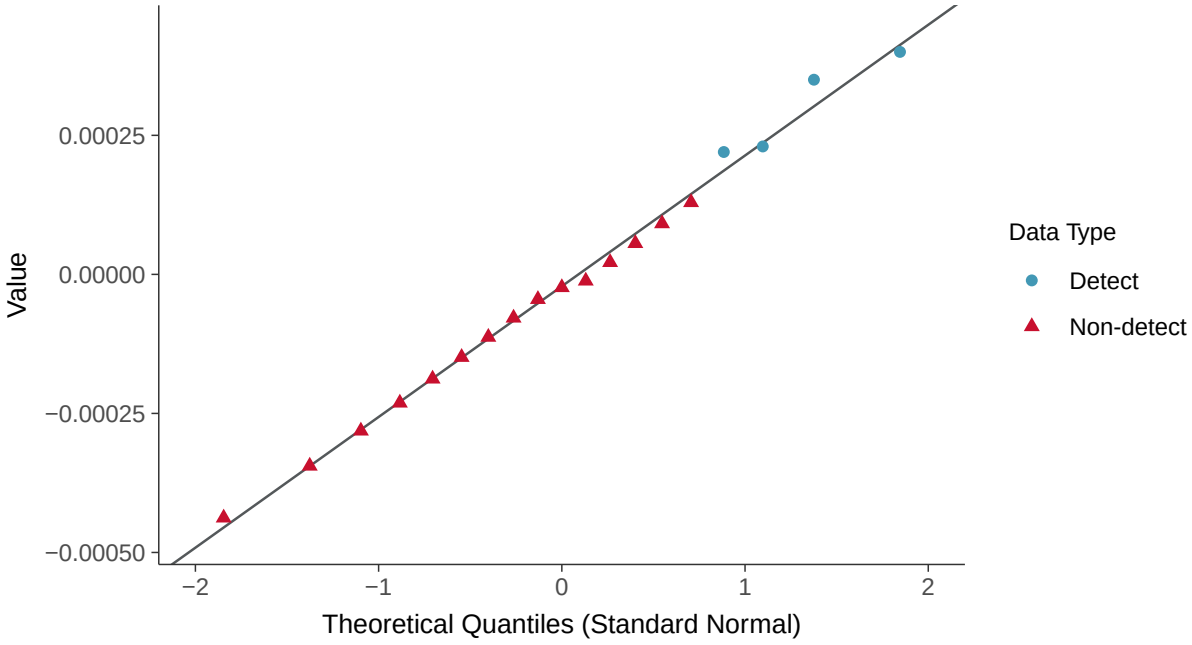
Boxplot by Season

Copper, MW-19 (mg/L)



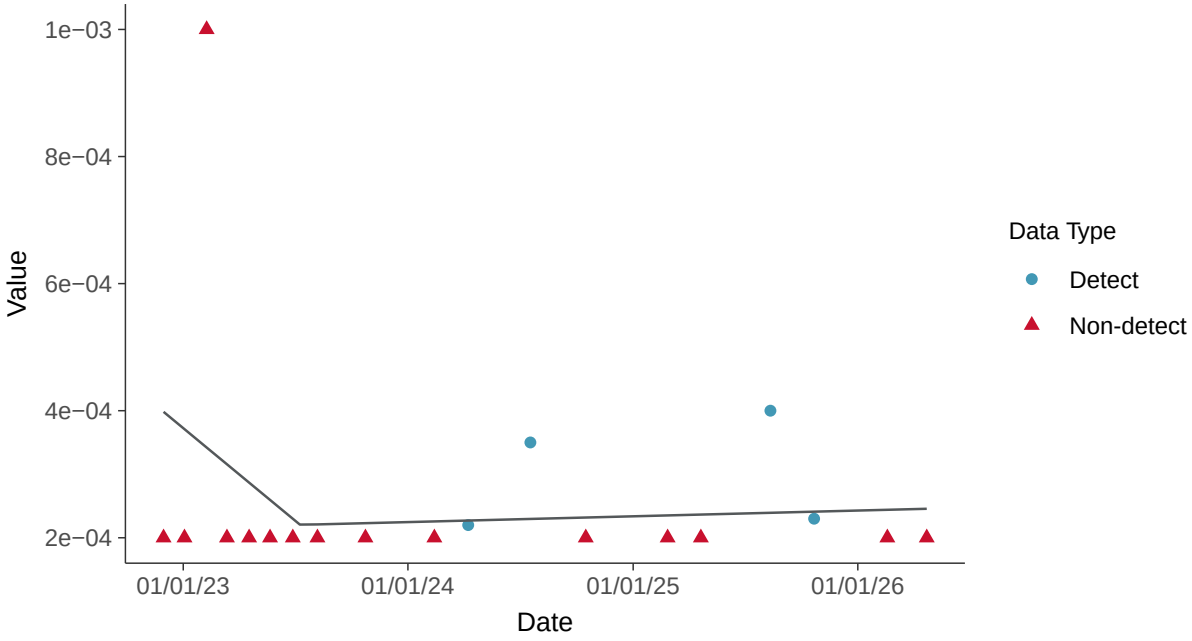
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-19 (mg/L)



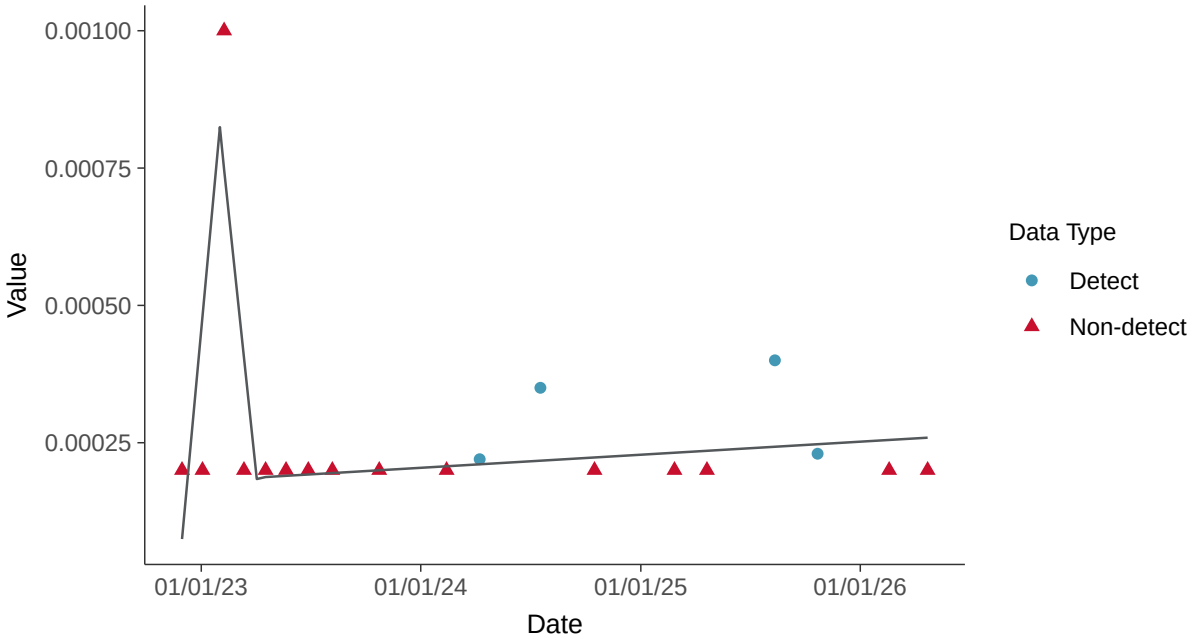
Trend Regression: Piecewise Linear-Linear

Copper, MW-19 (mg/L)



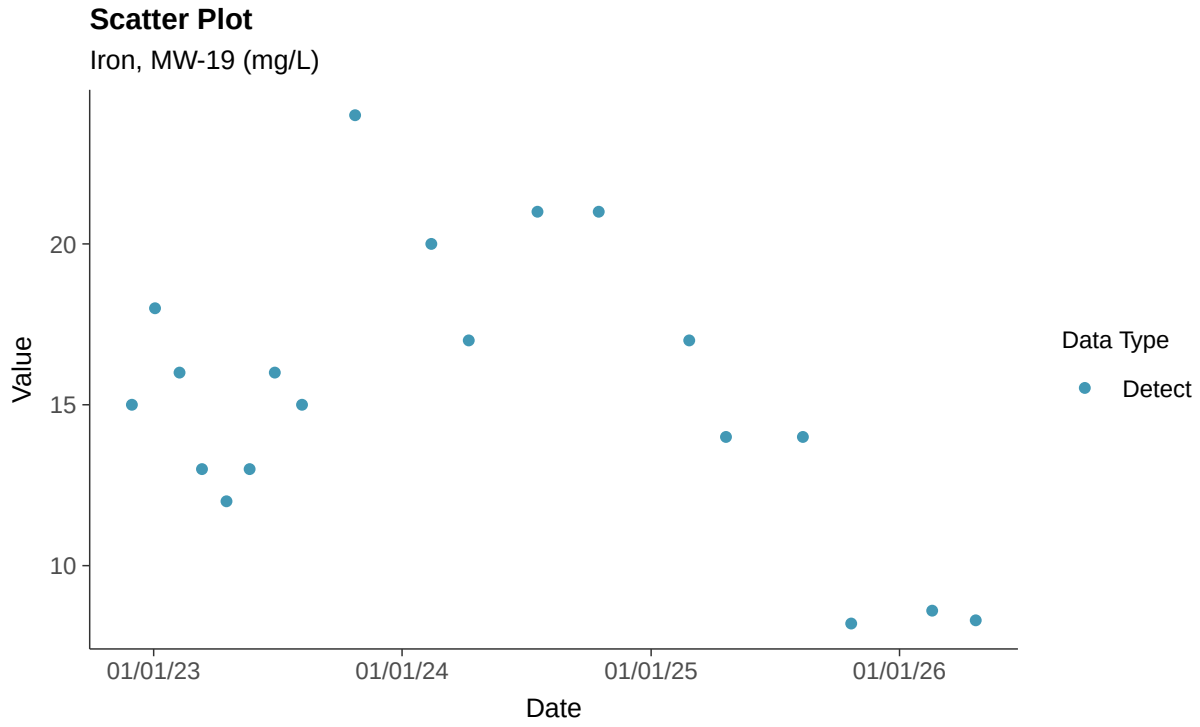
Trend Regression: Piecewise Linear-Linear-Linear

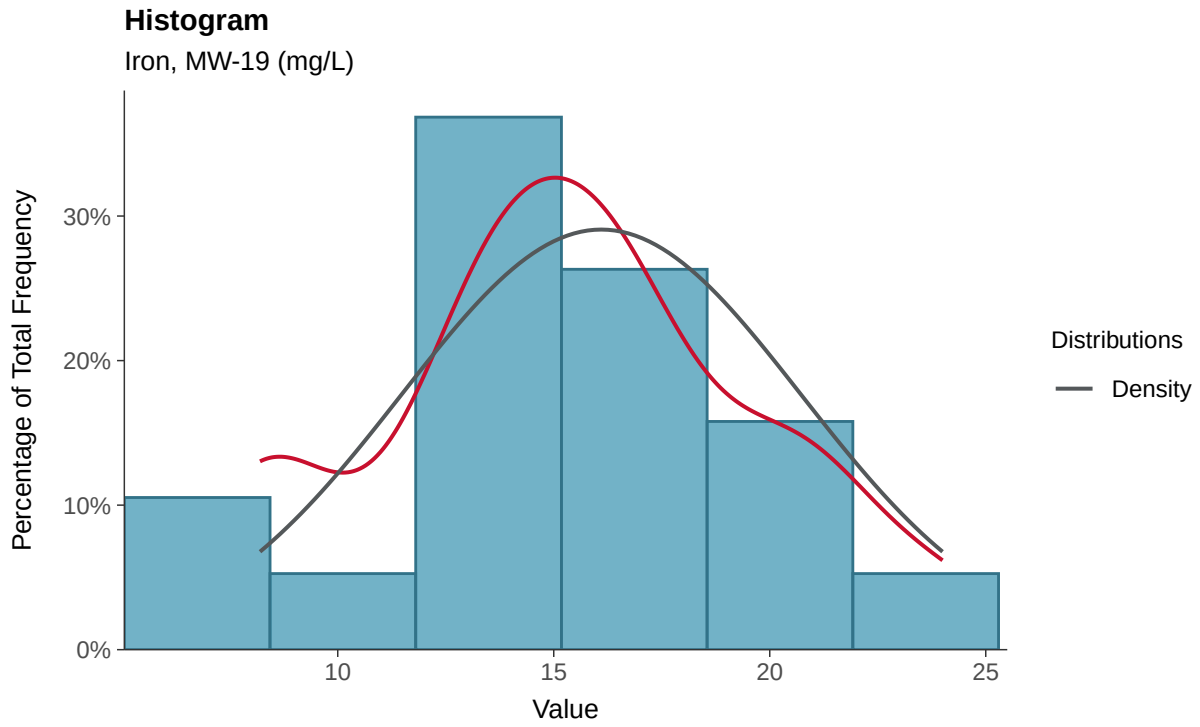
Copper, MW-19 (mg/L)



Part 115: Iron, MW-19

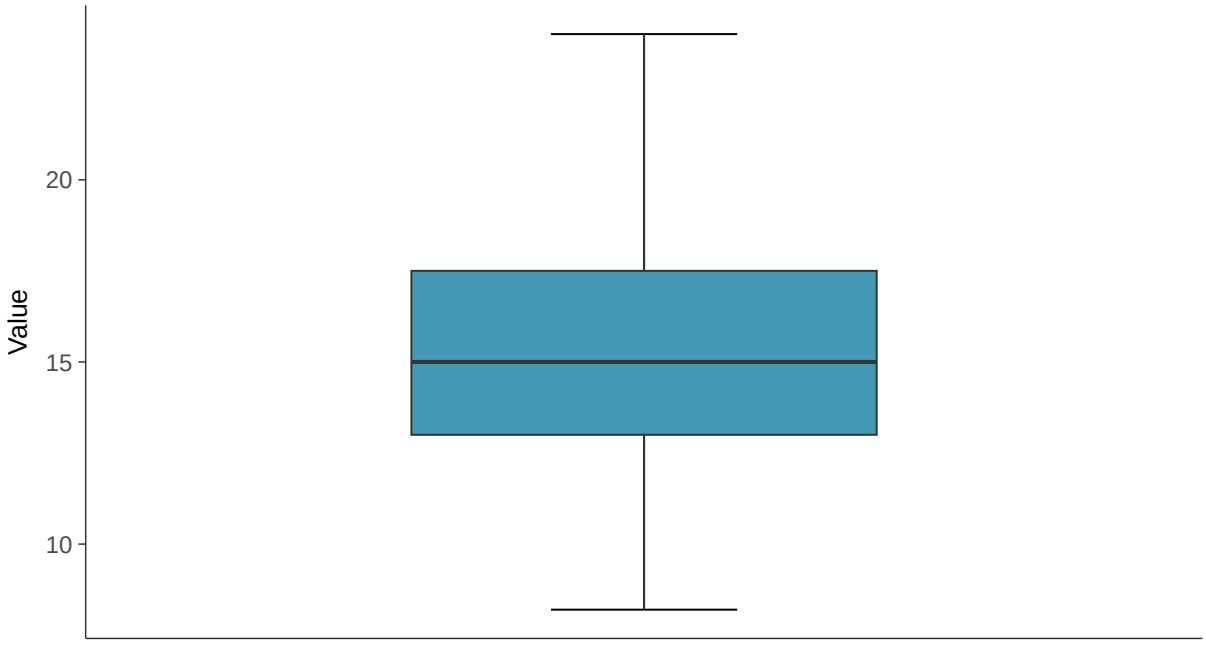
ID: 29_1_5_114





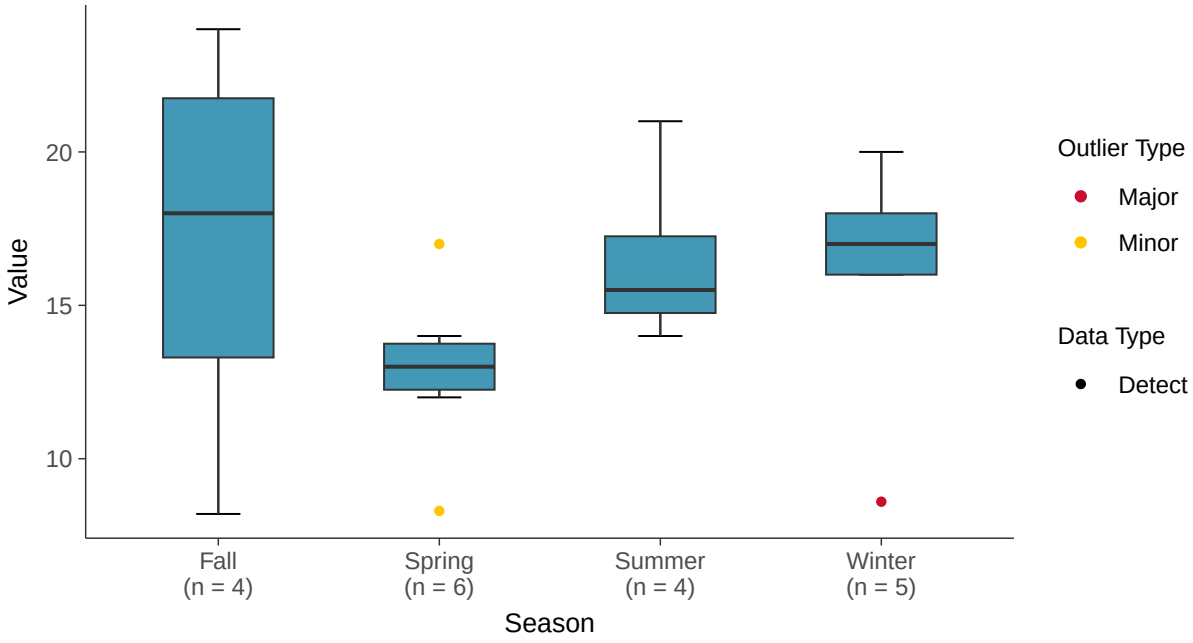
Boxplot

Iron, MW-19 (mg/L)



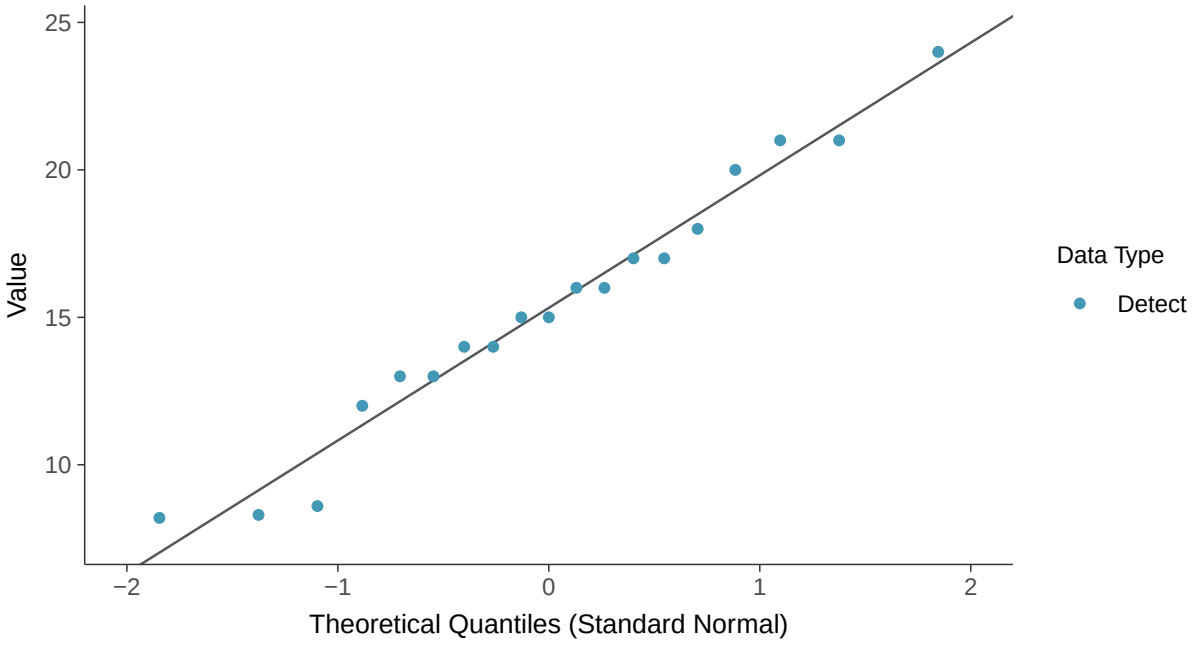
Boxplot by Season

Iron, MW-19 (mg/L)



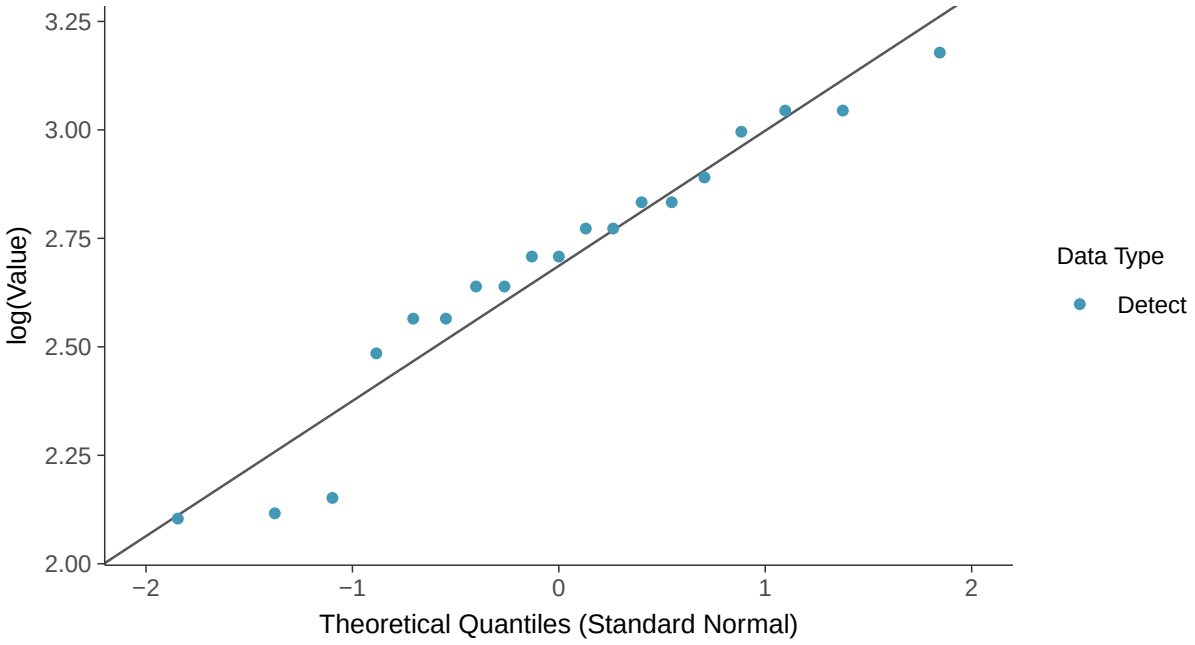
Normal Q-Q plot

Iron, MW-19 (mg/L)



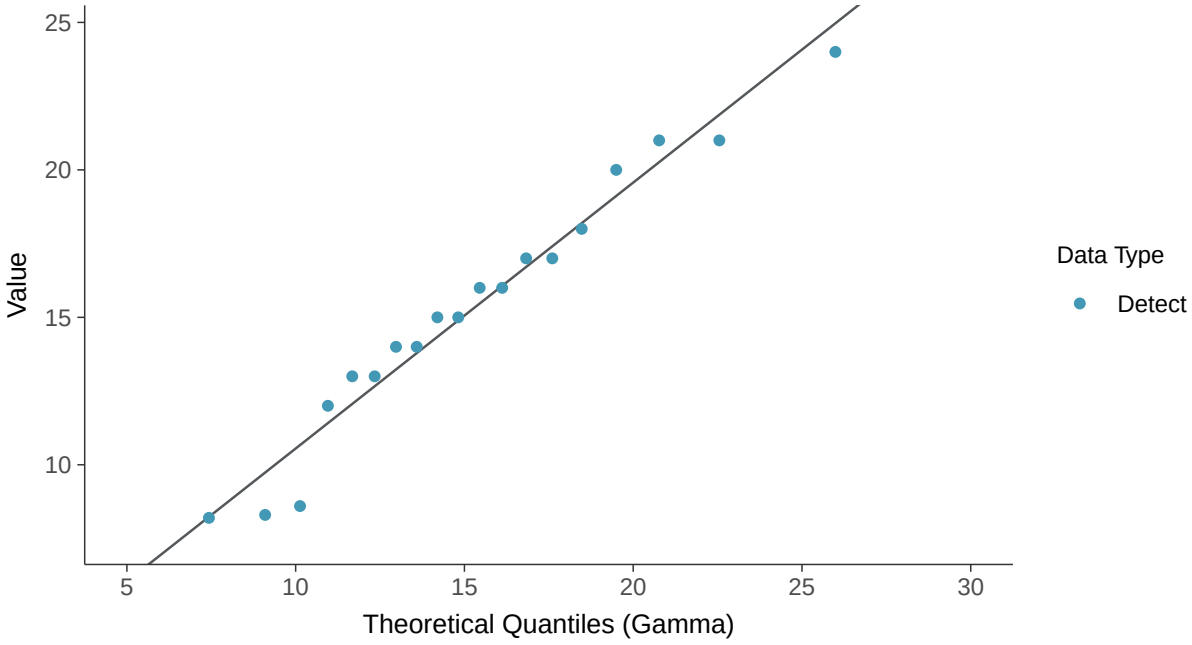
Lognormal Q-Q plot

Iron, MW-19 (mg/L)



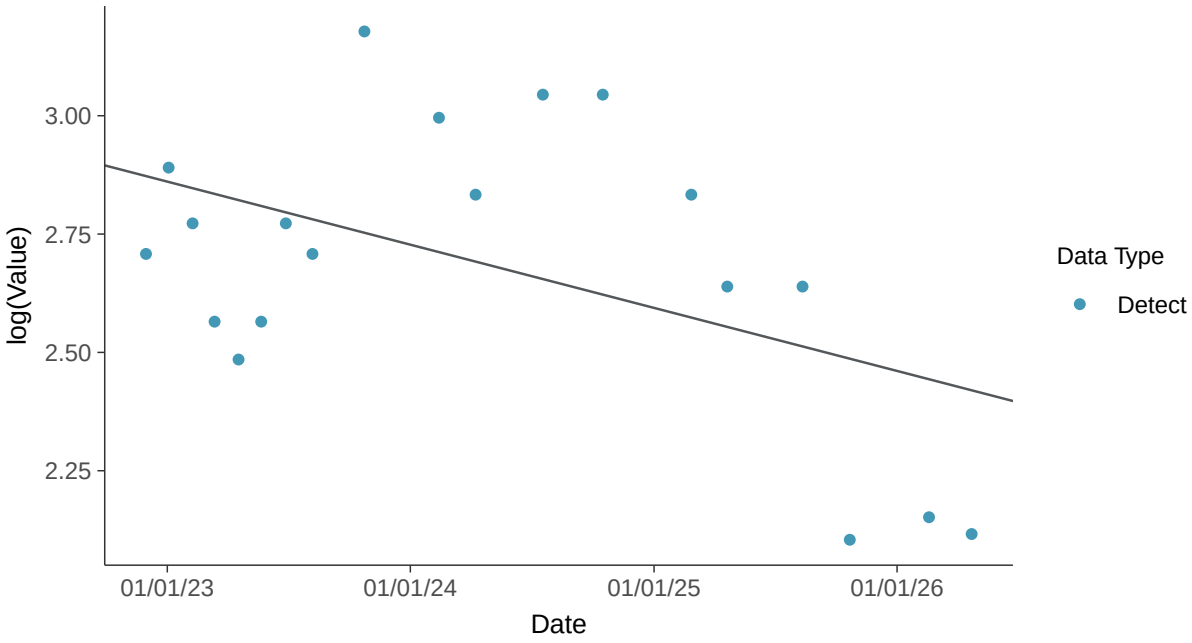
Gamma Q-Q plot

Iron, MW-19 (mg/L)



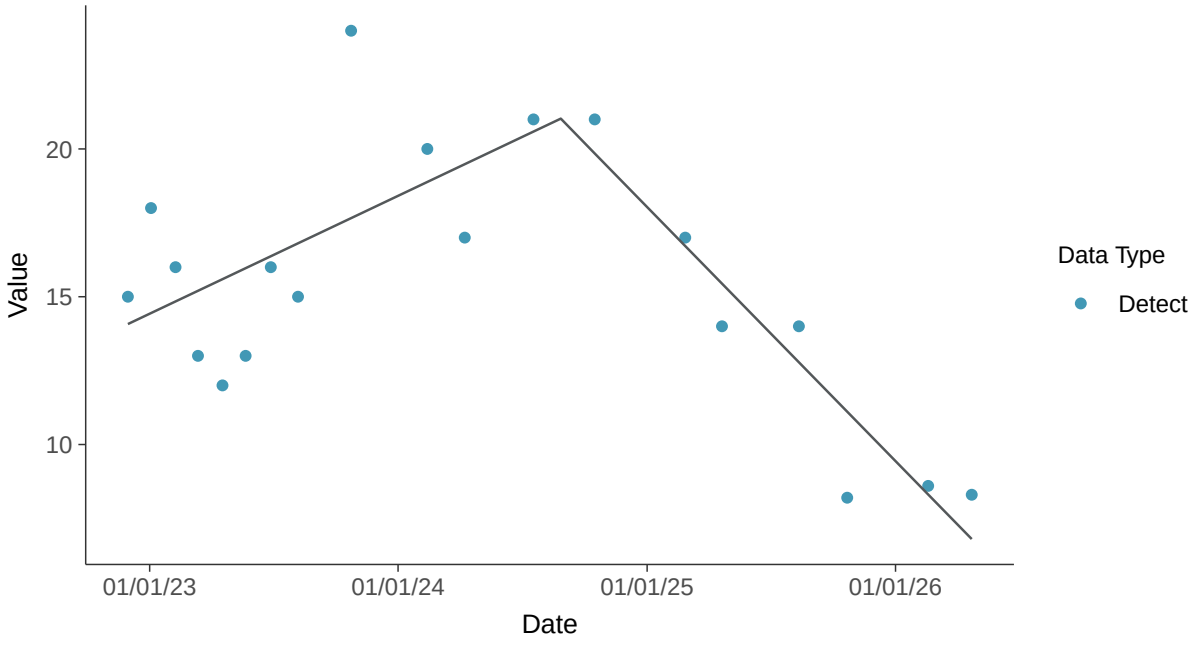
Trend Regression: Lognormal MLE

Iron, MW-19 (mg/L)



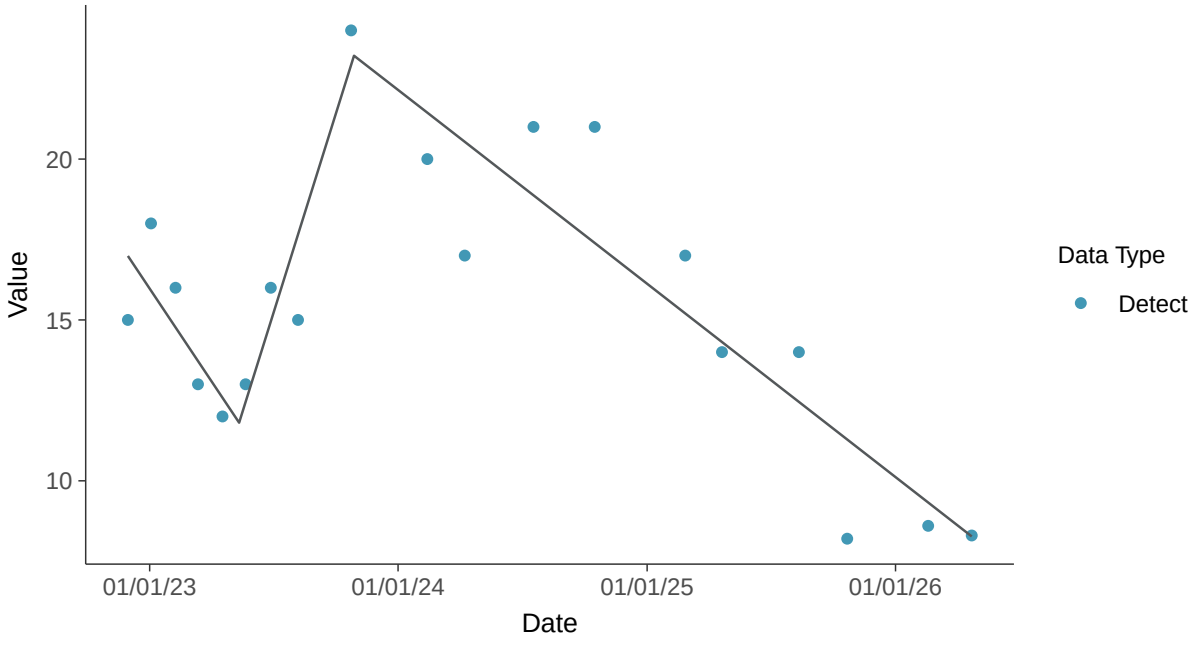
Trend Regression: Piecewise Linear-Linear

Iron, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-19 (mg/L)

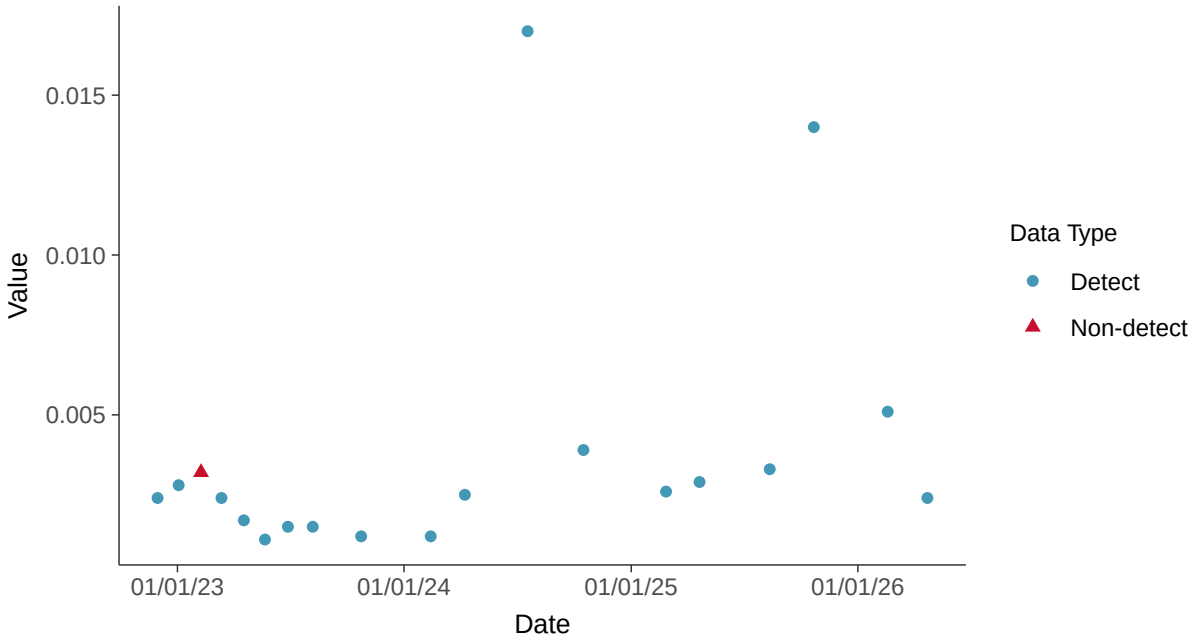


Part 115: Nickel, MW-19

ID: 29_1_5_119

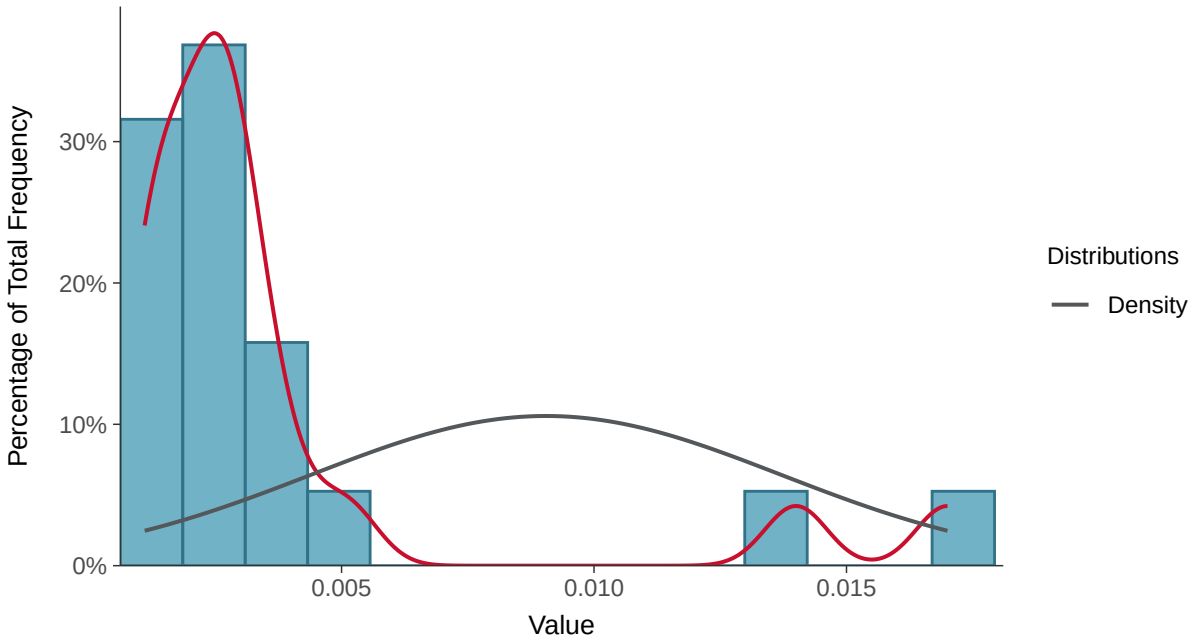
Scatter Plot

Nickel, MW-19 (mg/L)



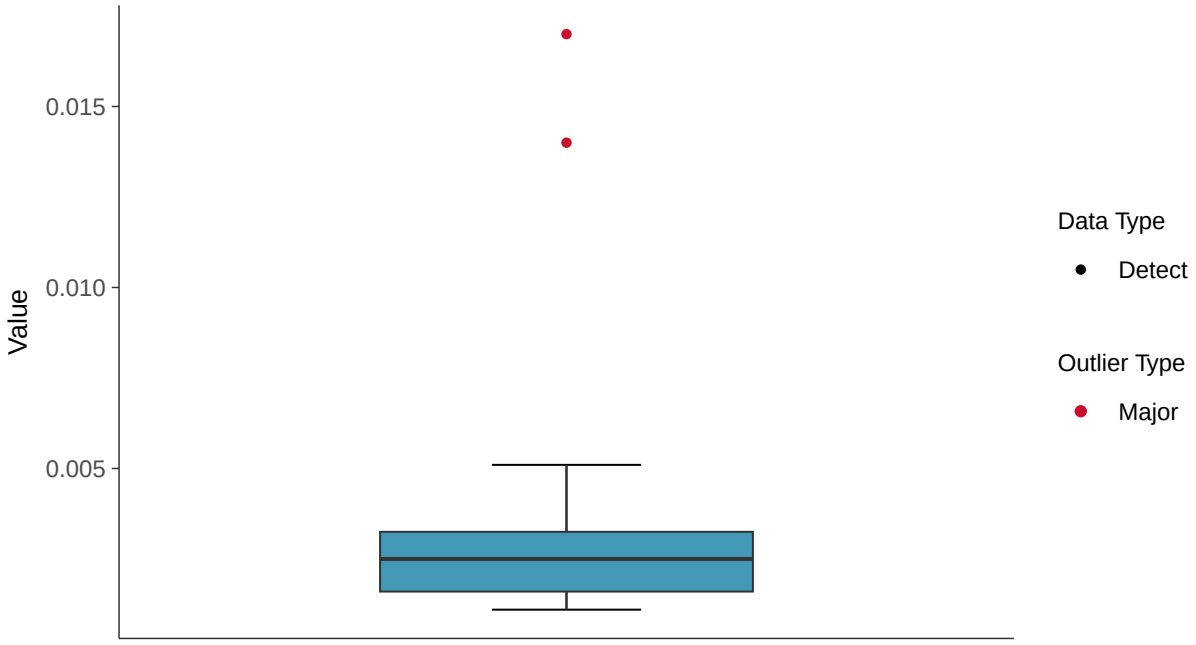
Histogram

Nickel, MW-19 (mg/L)



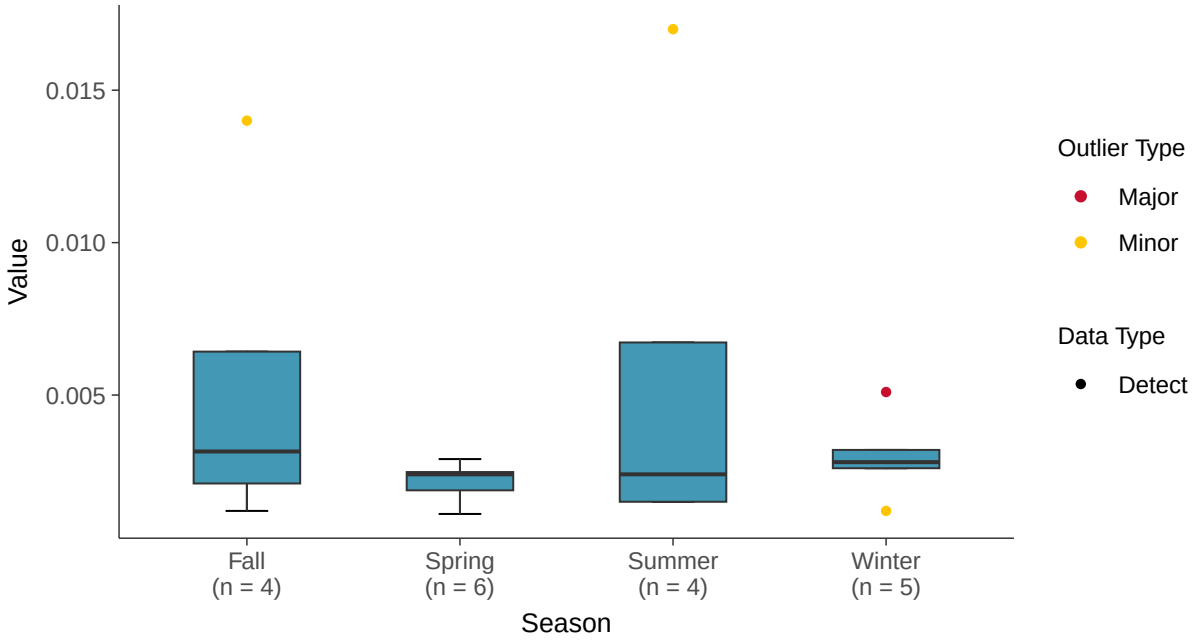
Boxplot

Nickel, MW-19 (mg/L)



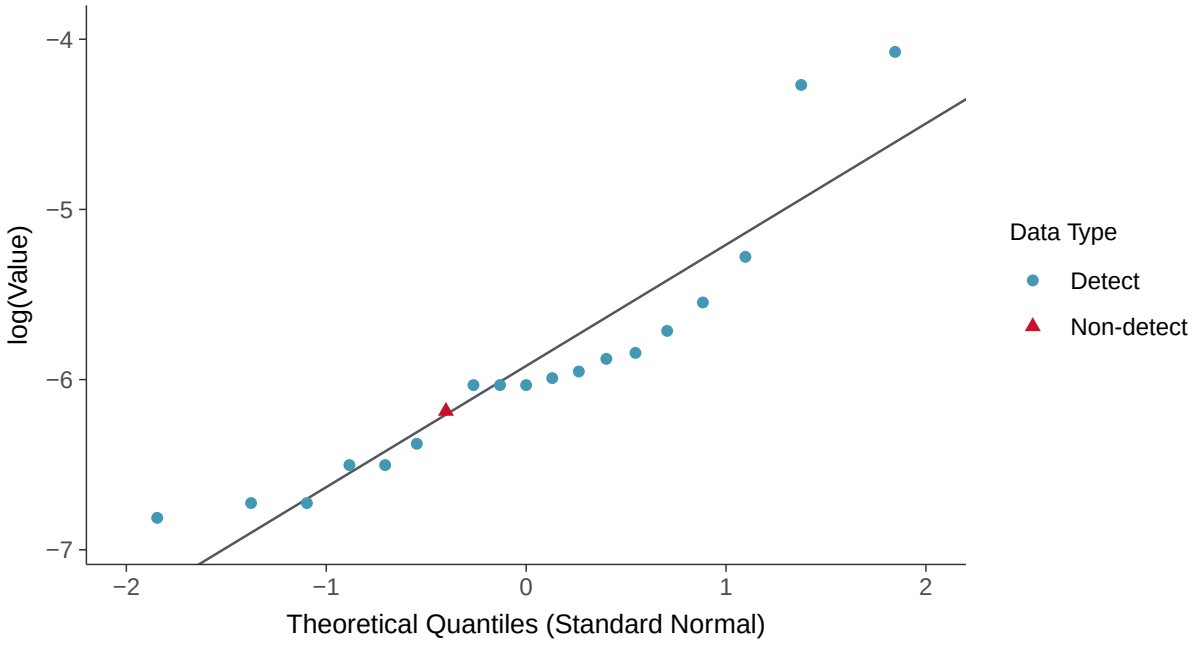
Boxplot by Season

Nickel, MW-19 (mg/L)



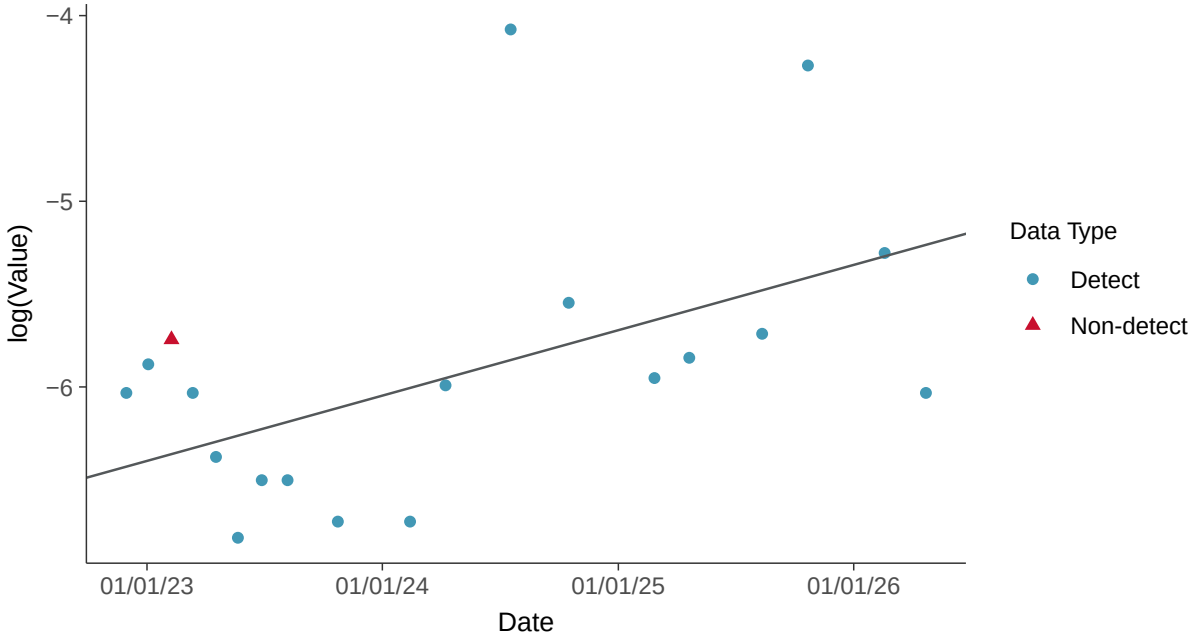
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-19 (mg/L)



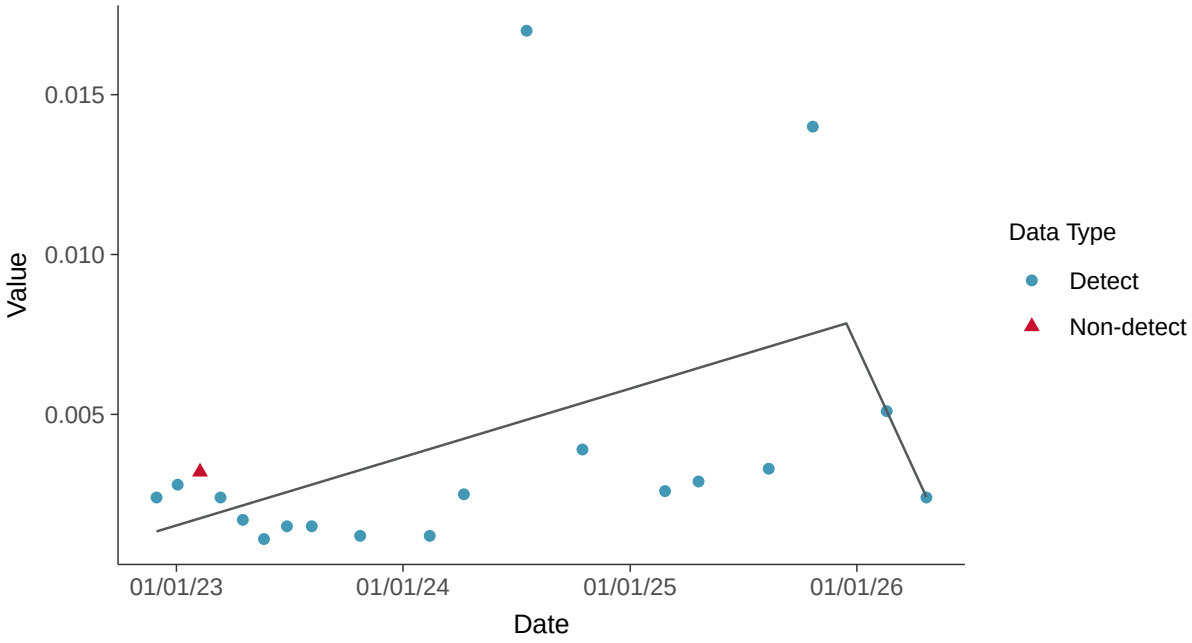
Trend Regression: Lognormal MLE

Nickel, MW-19 (mg/L)



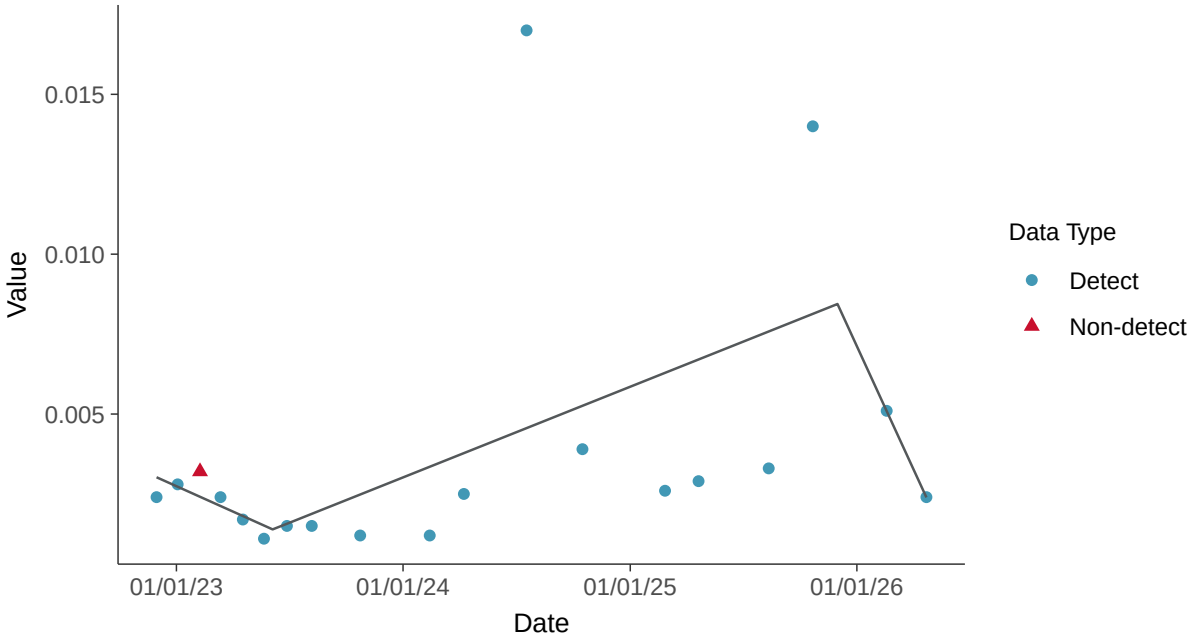
Trend Regression: Piecewise Linear-Linear

Nickel, MW-19 (mg/L)



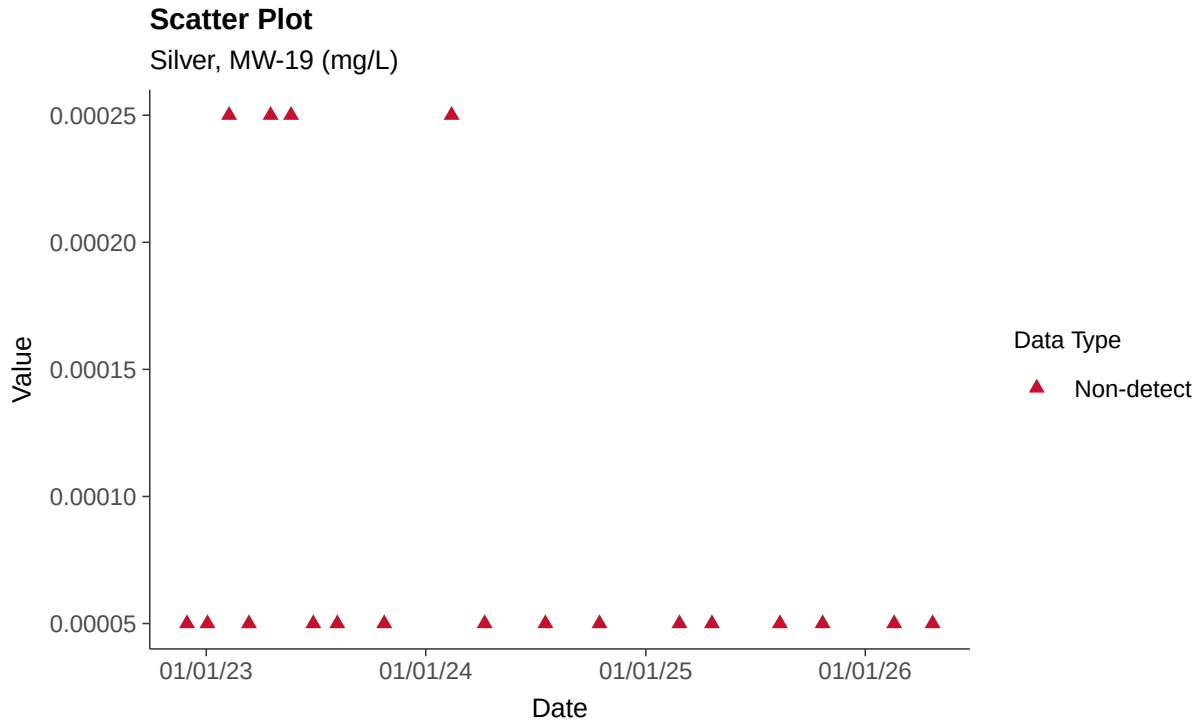
Trend Regression: Piecewise Linear-Linear-Linear

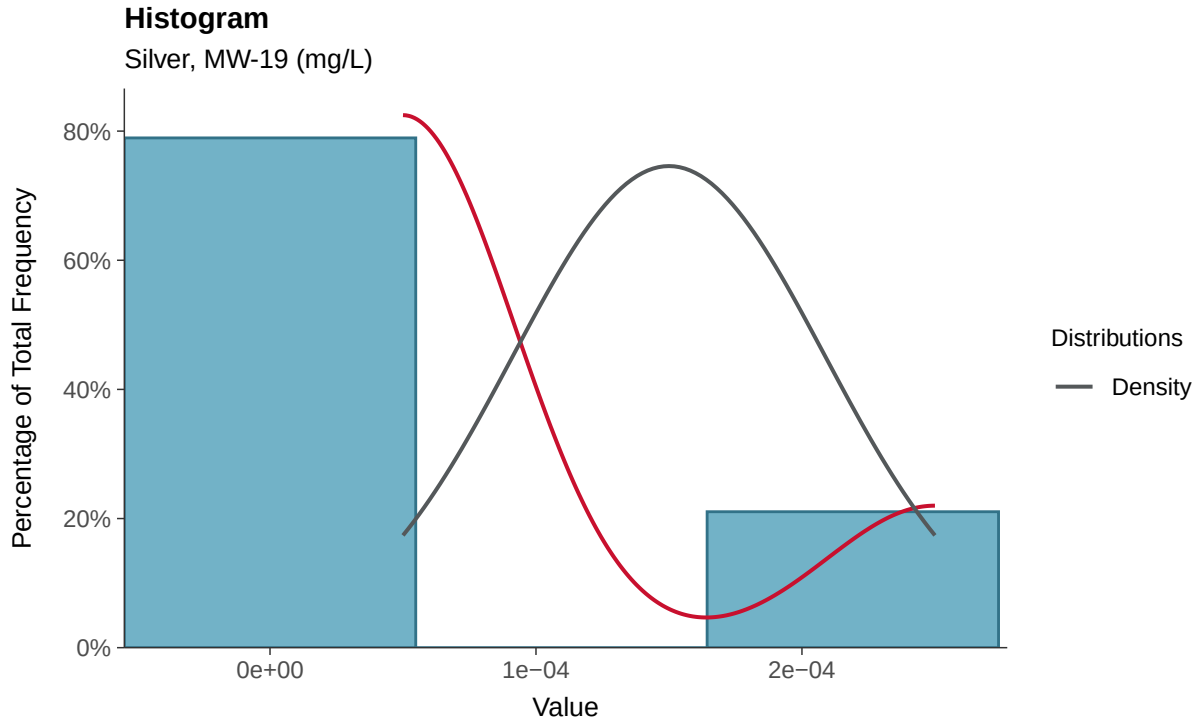
Nickel, MW-19 (mg/L)



Part 115: Silver, MW-19

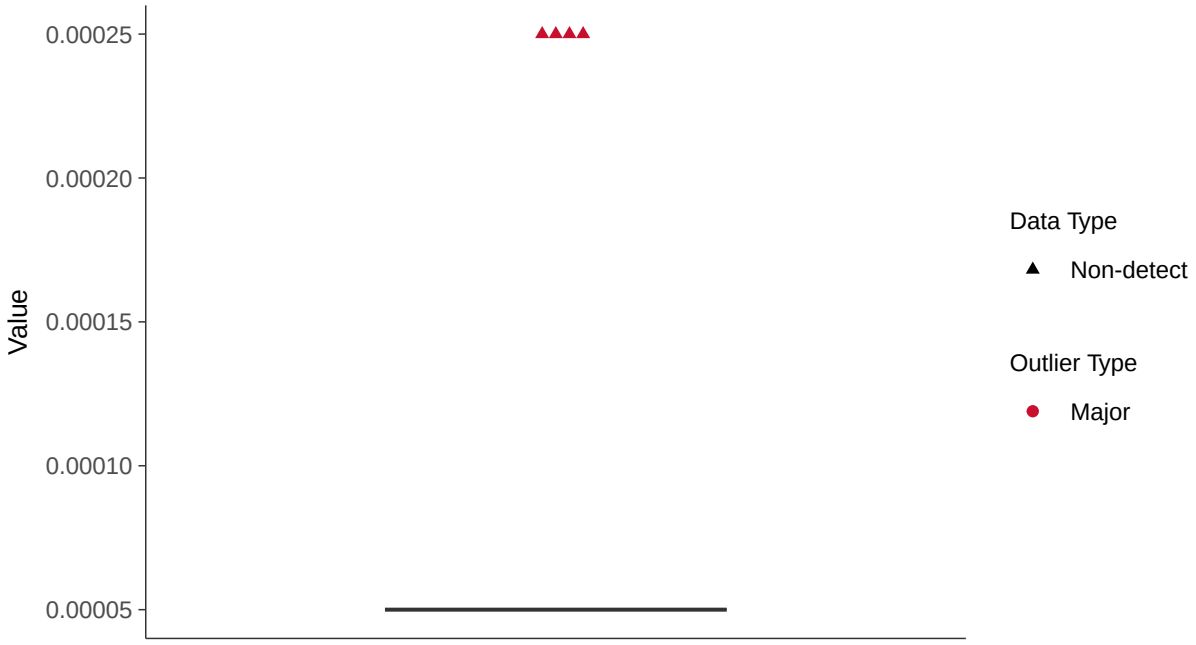
ID: 29_1_5_123





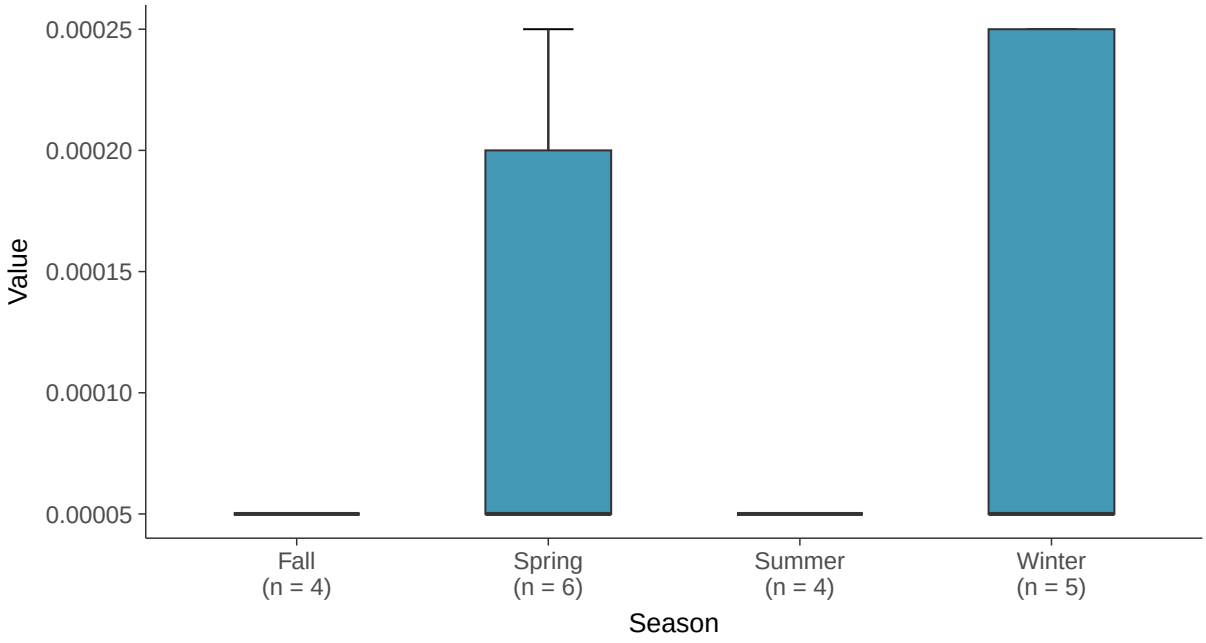
Boxplot

Silver, MW-19 (mg/L)



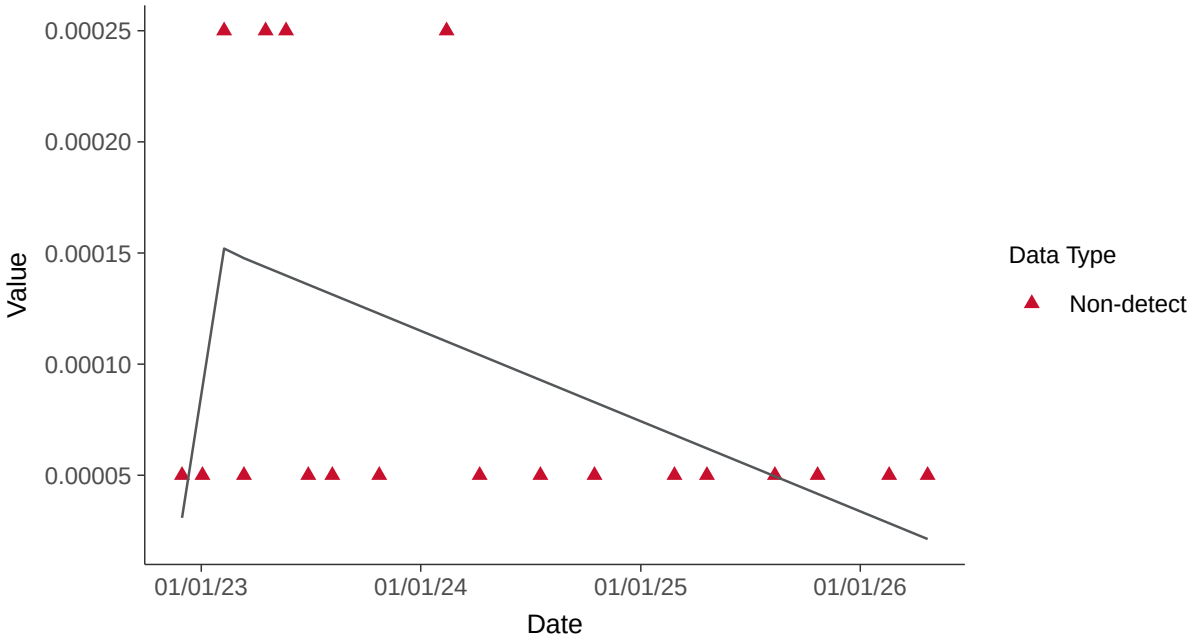
Boxplot by Season

Silver, MW-19 (mg/L)



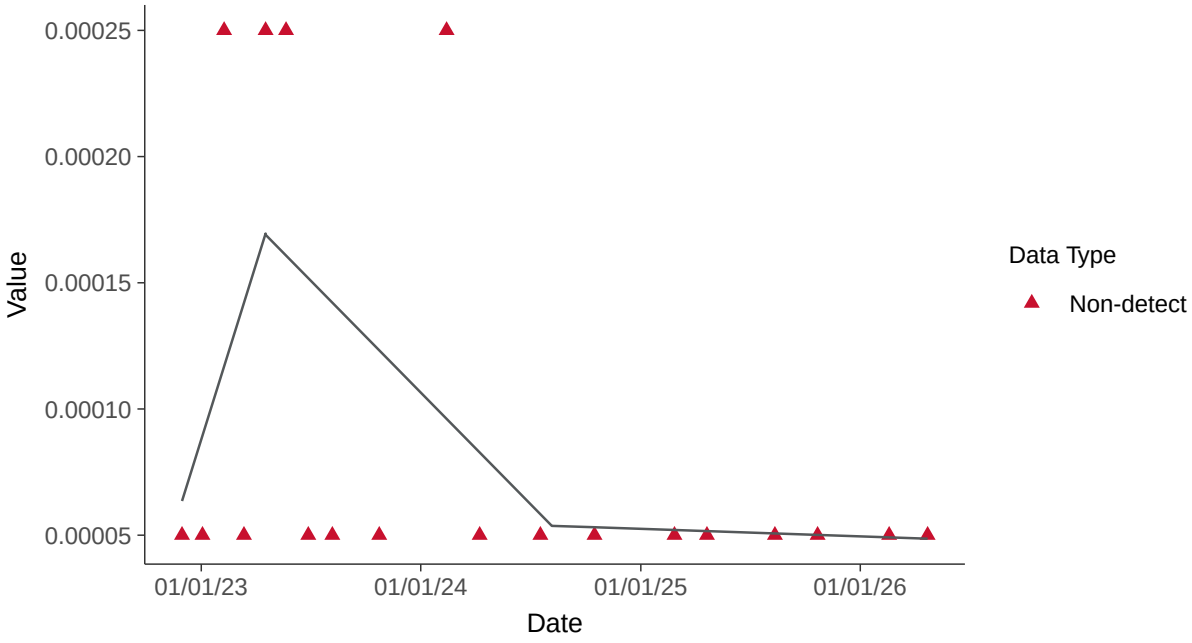
Trend Regression: Piecewise Linear-Linear

Silver, MW-19 (mg/L)



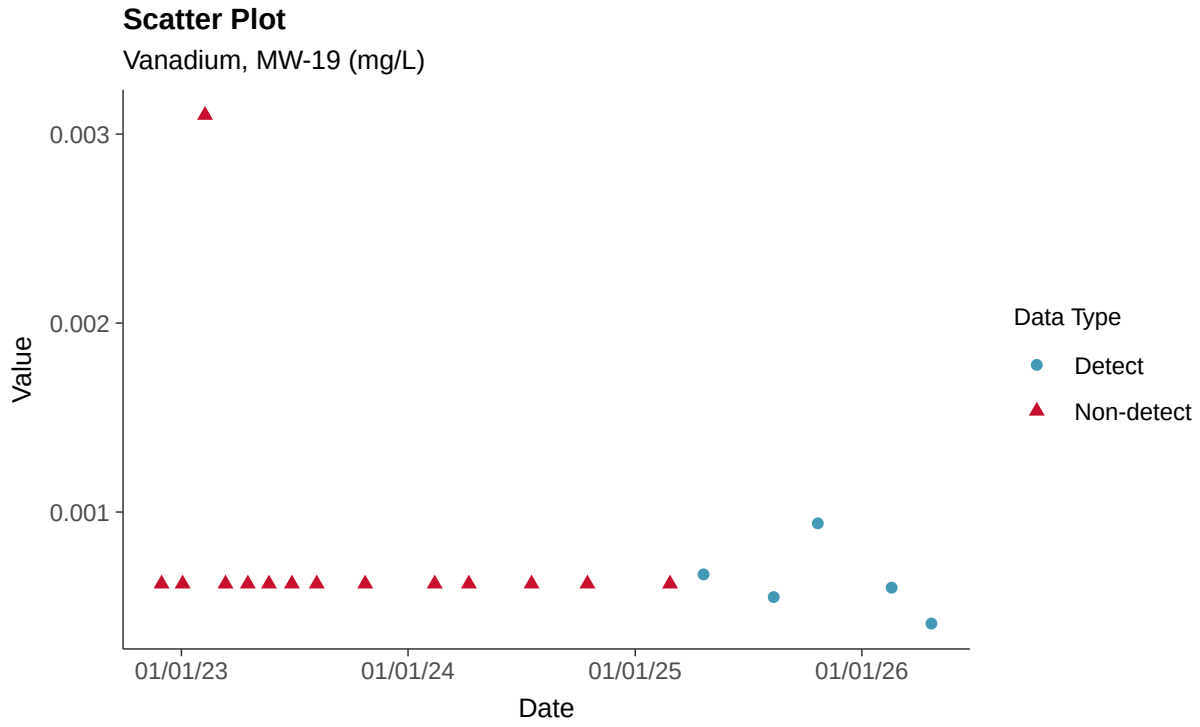
Trend Regression: Piecewise Linear-Linear-Linear

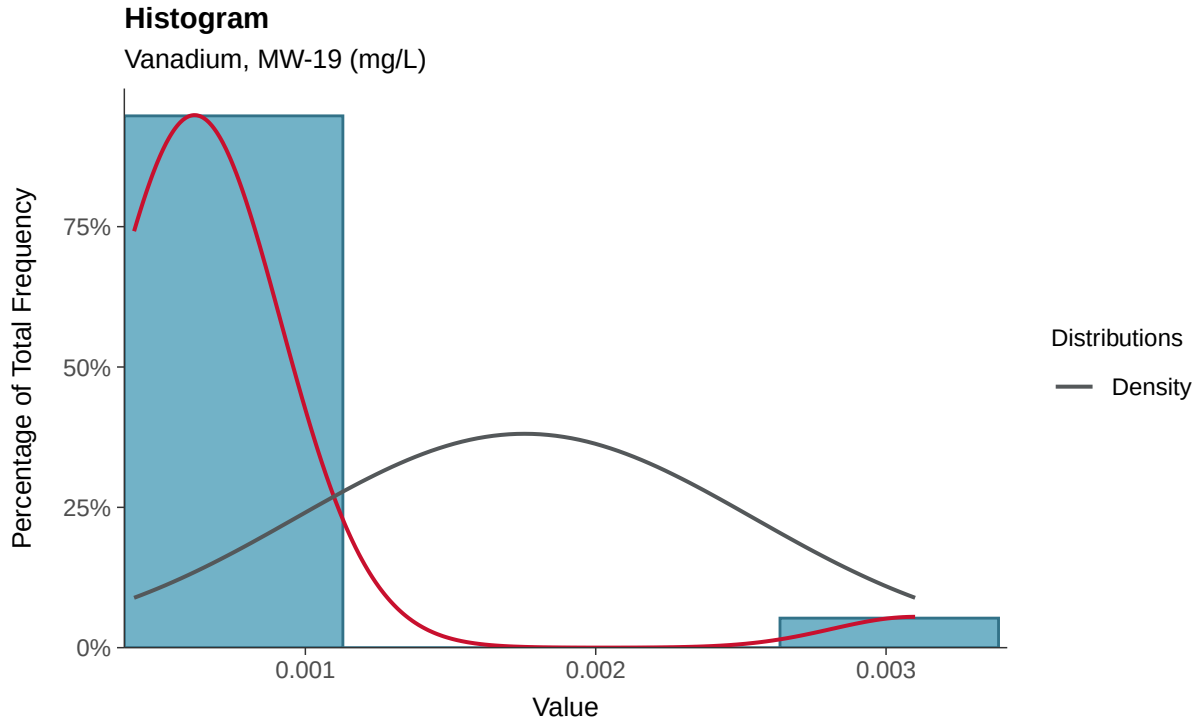
Silver, MW-19 (mg/L)



Part 115: Vanadium, MW-19

ID: 29_1_5_128



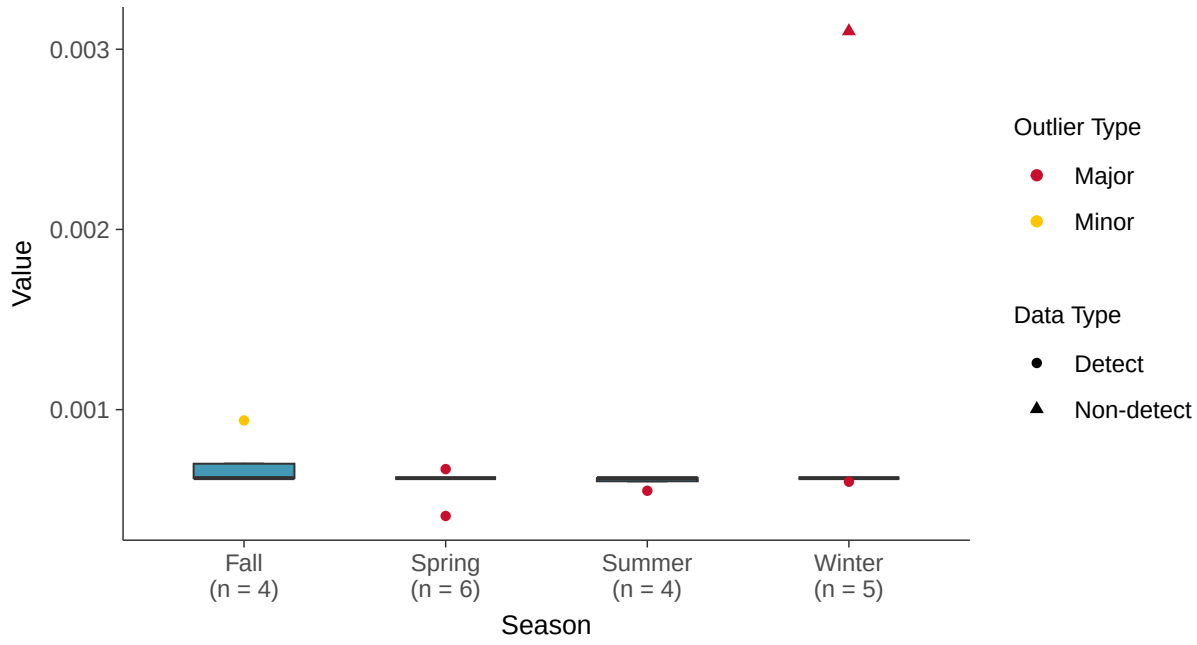


Boxplot

Vanadium, MW-19 (mg/L)

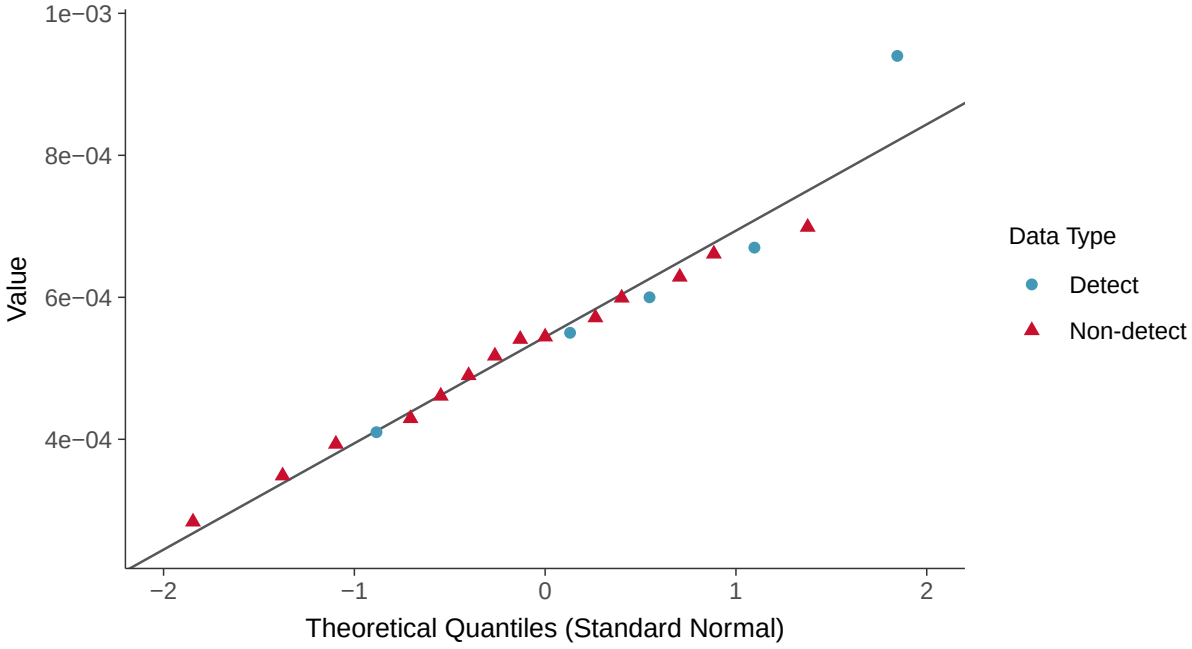
Boxplot by Season

Vanadium, MW-19 (mg/L)



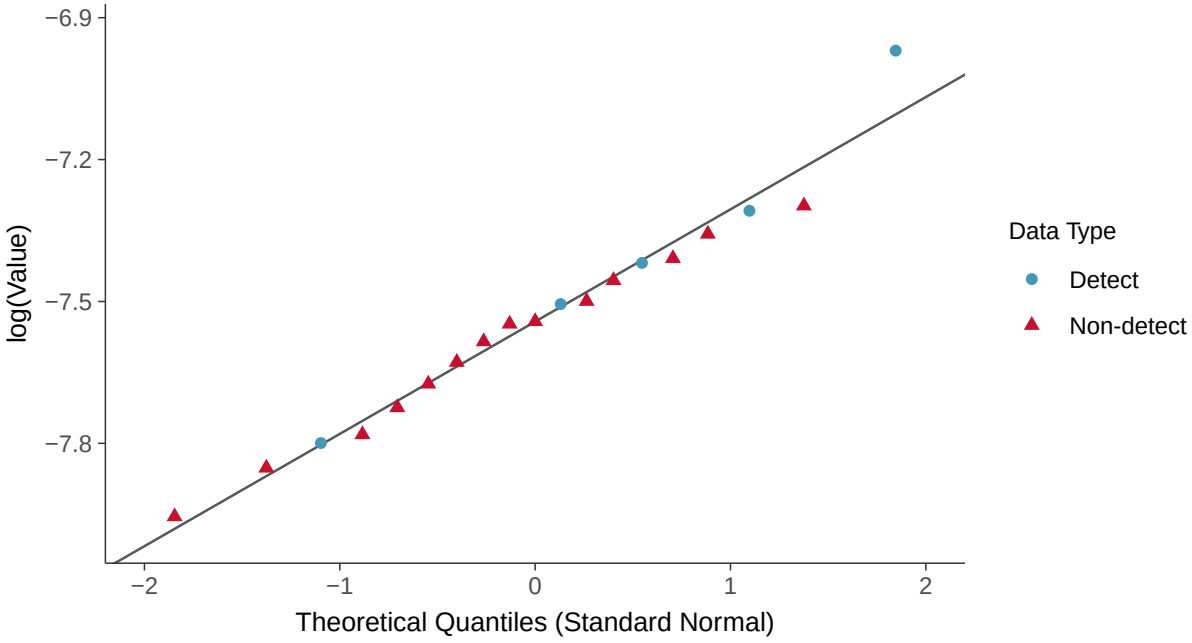
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-19 (mg/L)



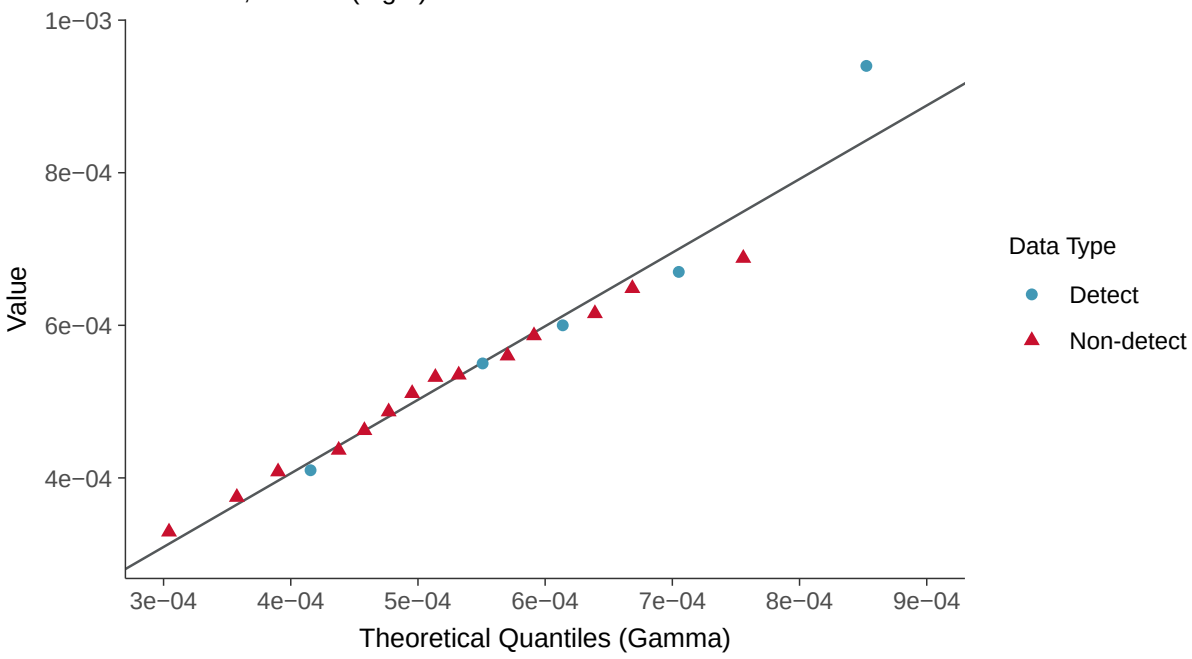
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-19 (mg/L)



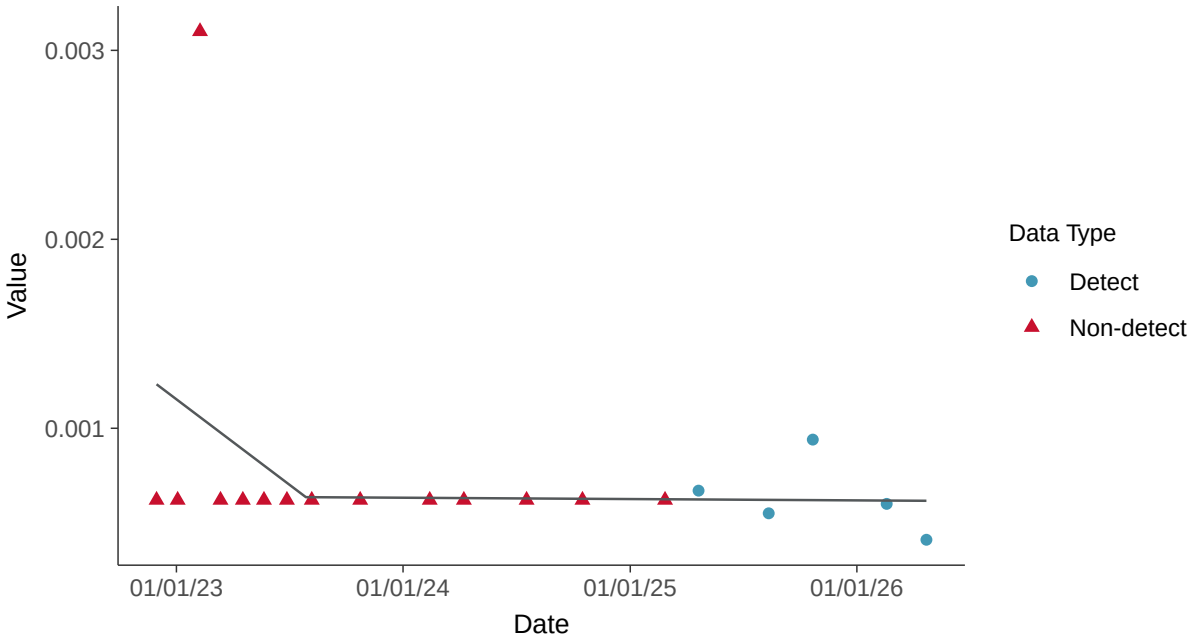
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-19 (mg/L)



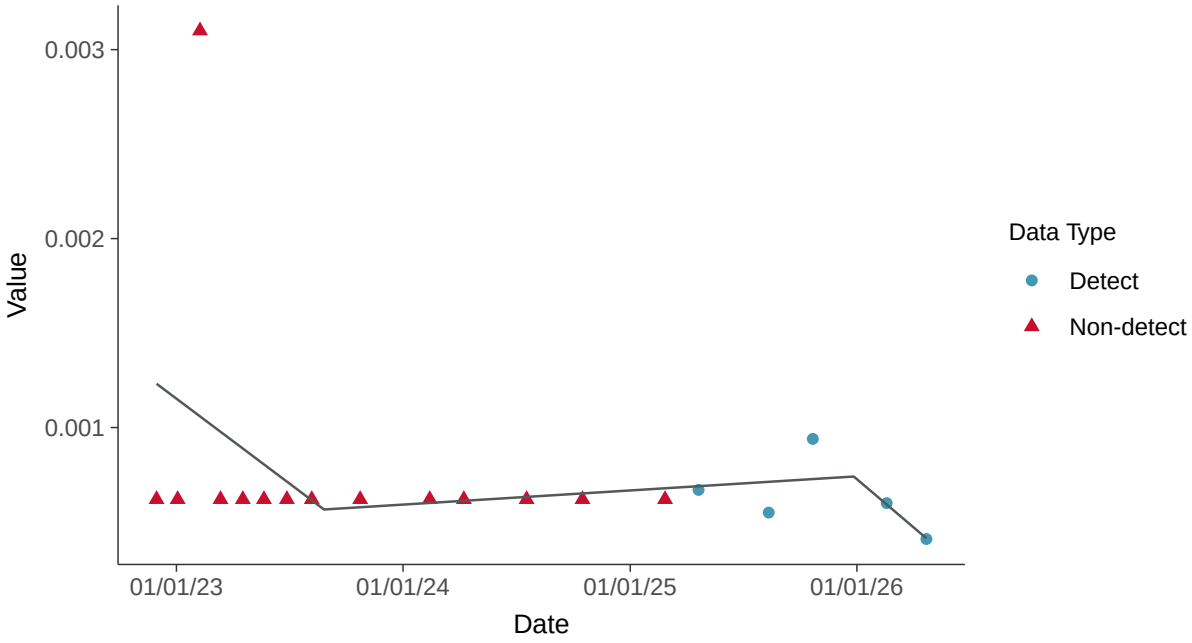
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-19 (mg/L)

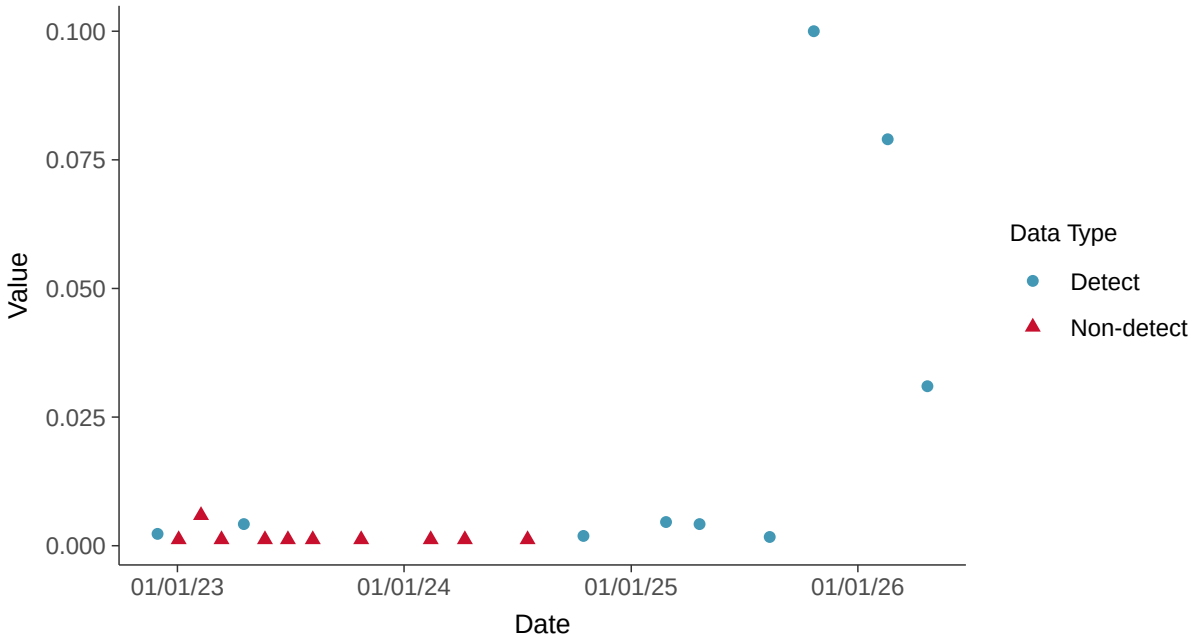


Part 115: Zinc, MW-19

ID: 29_1_5_129

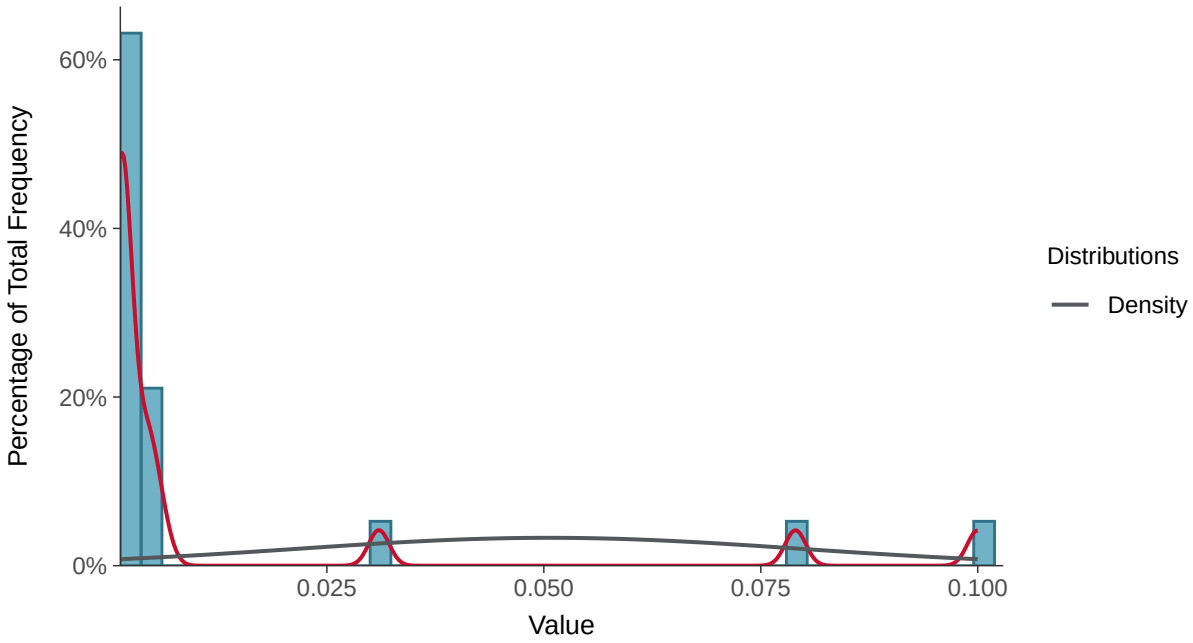
Scatter Plot

Zinc, MW-19 (mg/L)



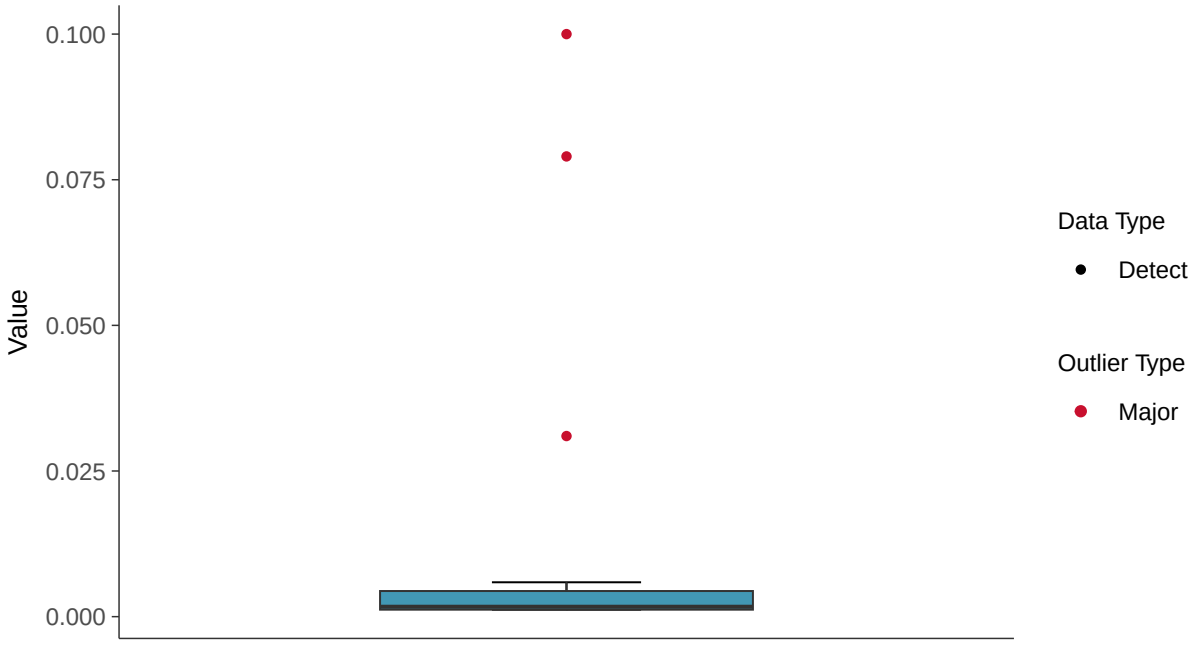
Histogram

Zinc, MW-19 (mg/L)



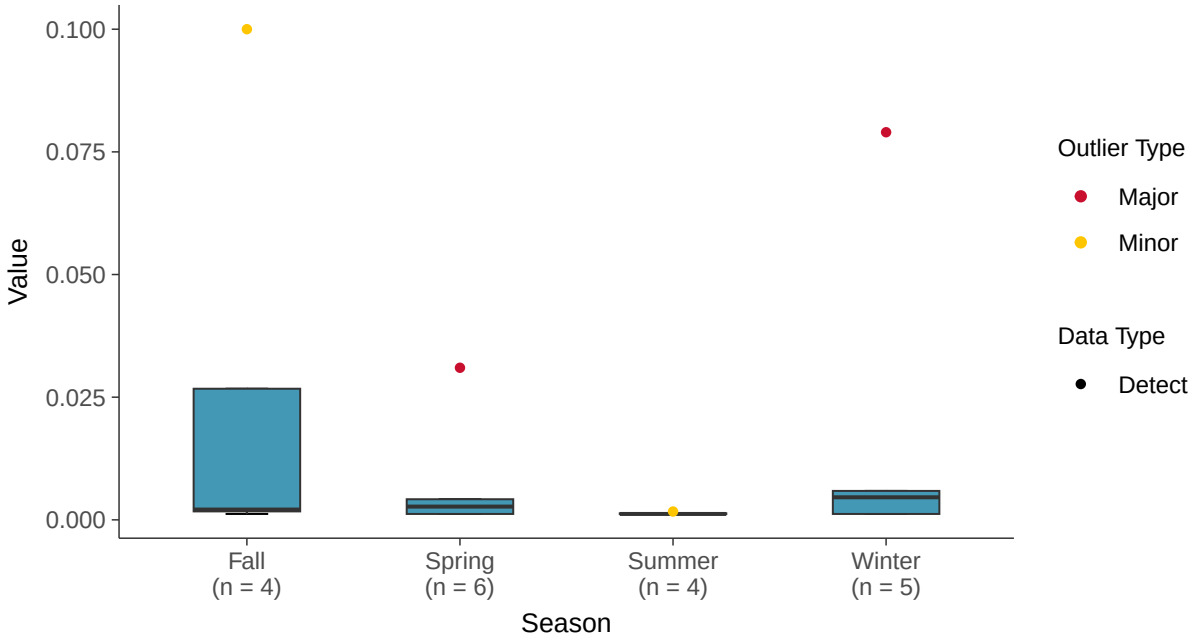
Boxplot

Zinc, MW-19 (mg/L)



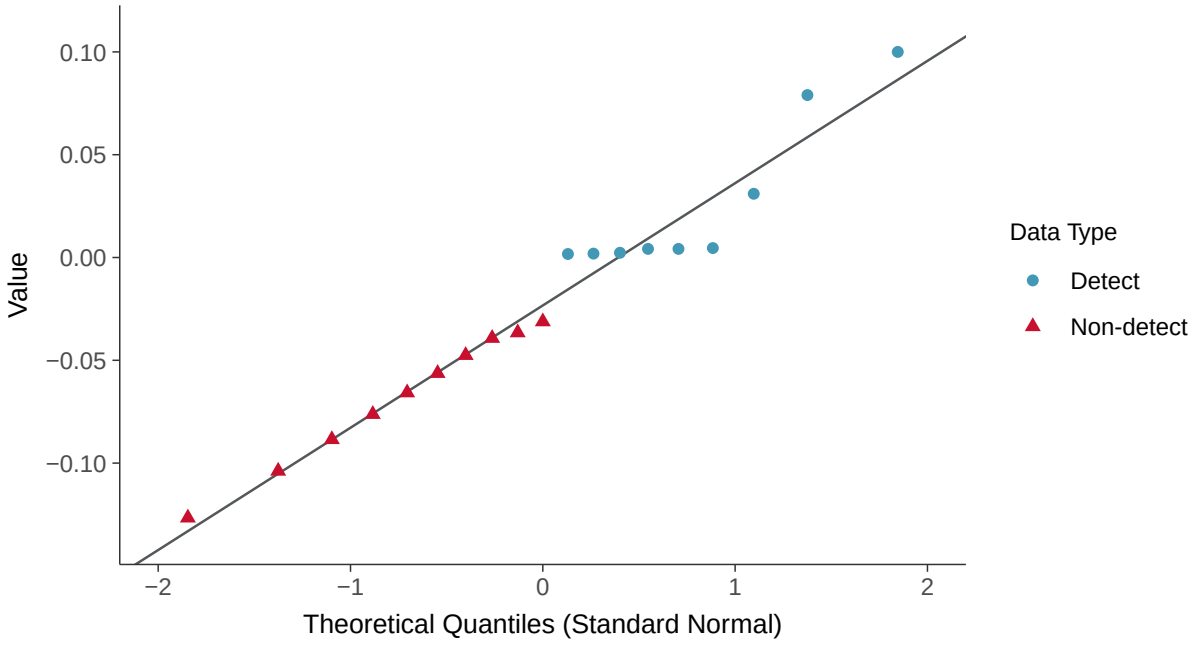
Boxplot by Season

Zinc, MW-19 (mg/L)



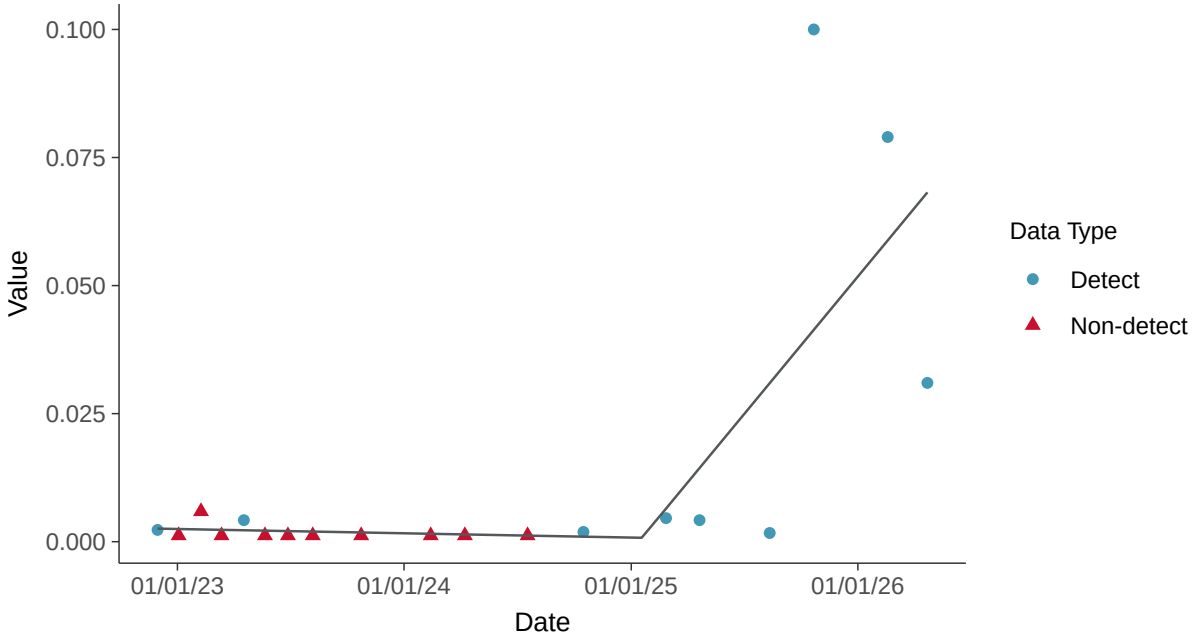
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-19 (mg/L)



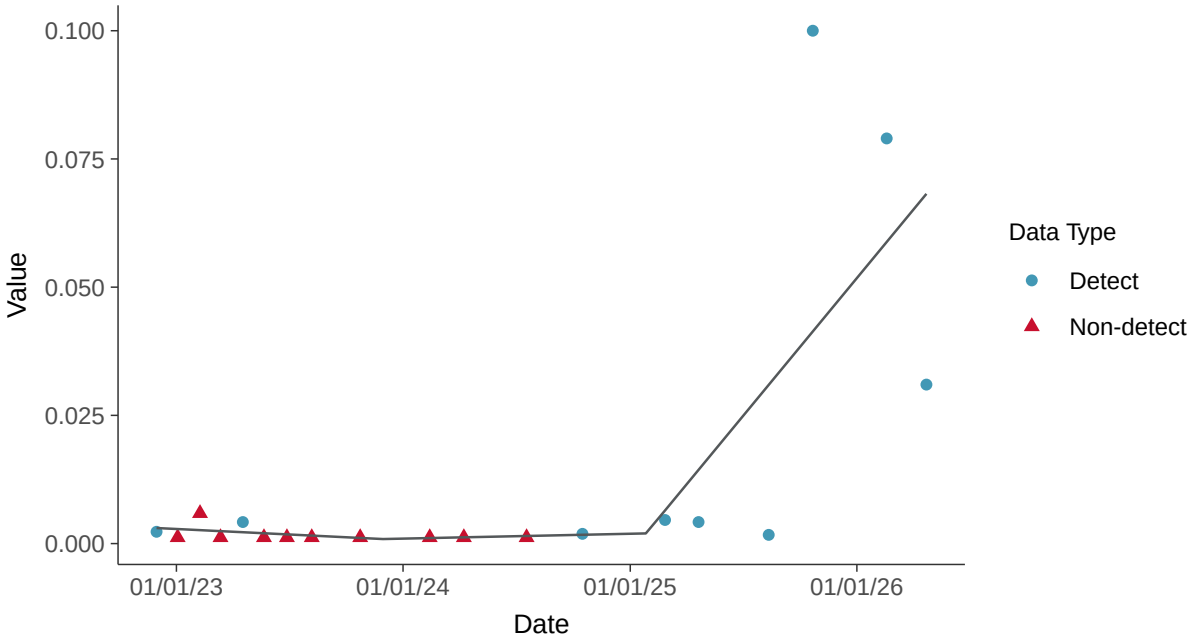
Trend Regression: Piecewise Linear-Linear

Zinc, MW-19 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-19 (mg/L)

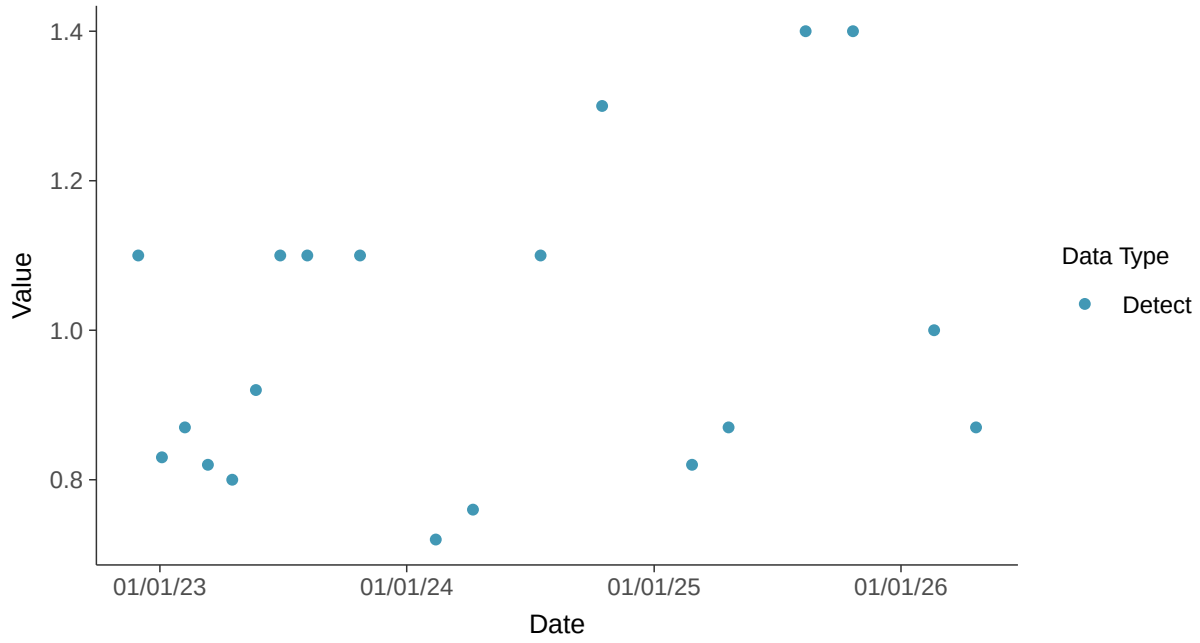


Appendix III: Boron, MW-20

ID: 30_1_3_105

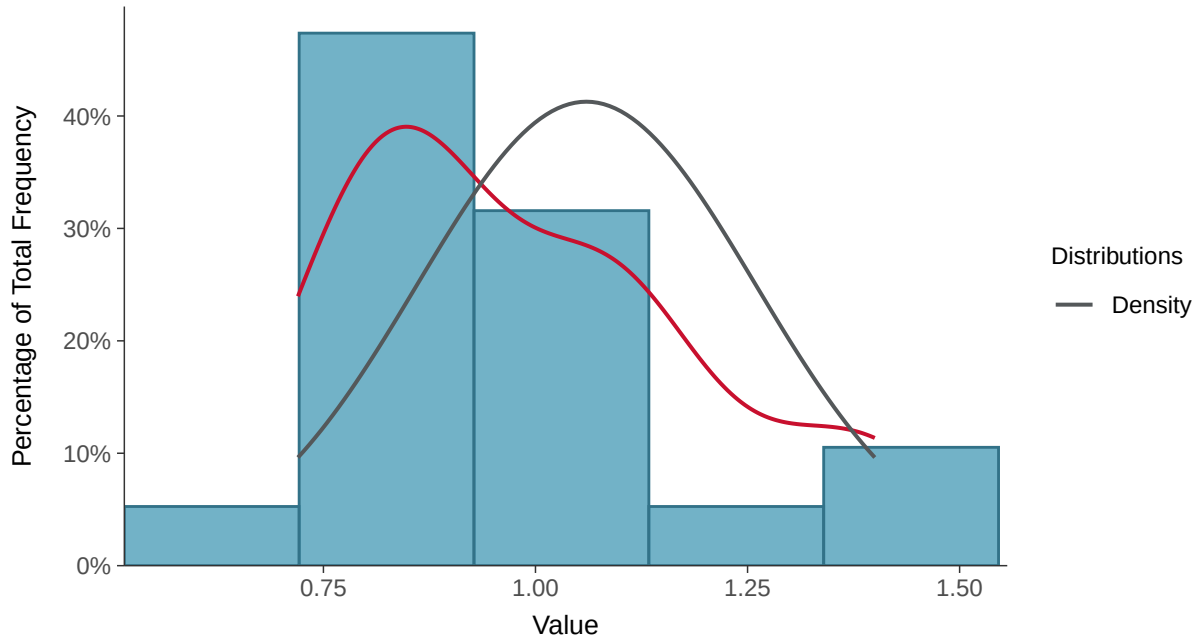
Scatter Plot

Boron, MW-20 (mg/L)



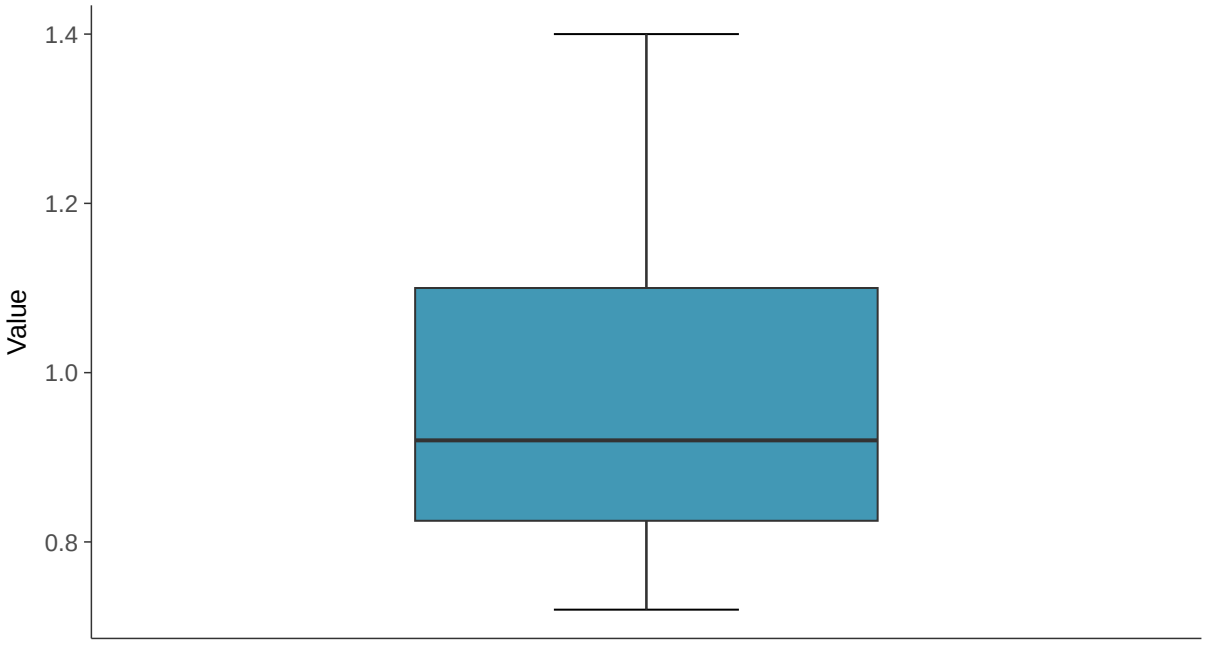
Histogram

Boron, MW-20 (mg/L)



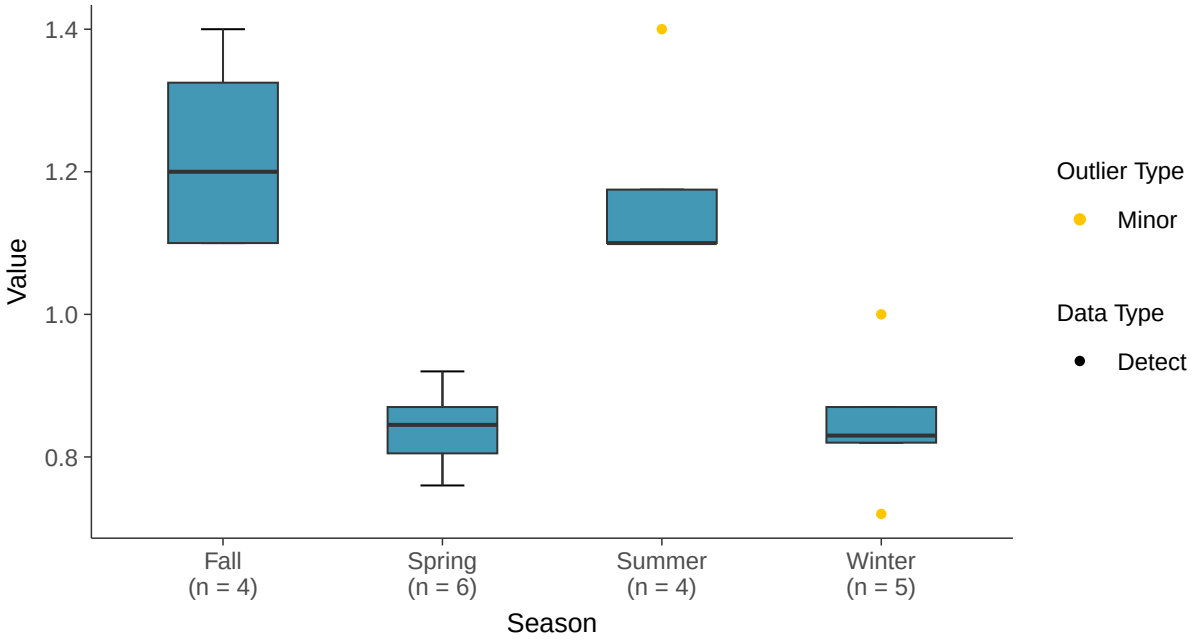
Boxplot

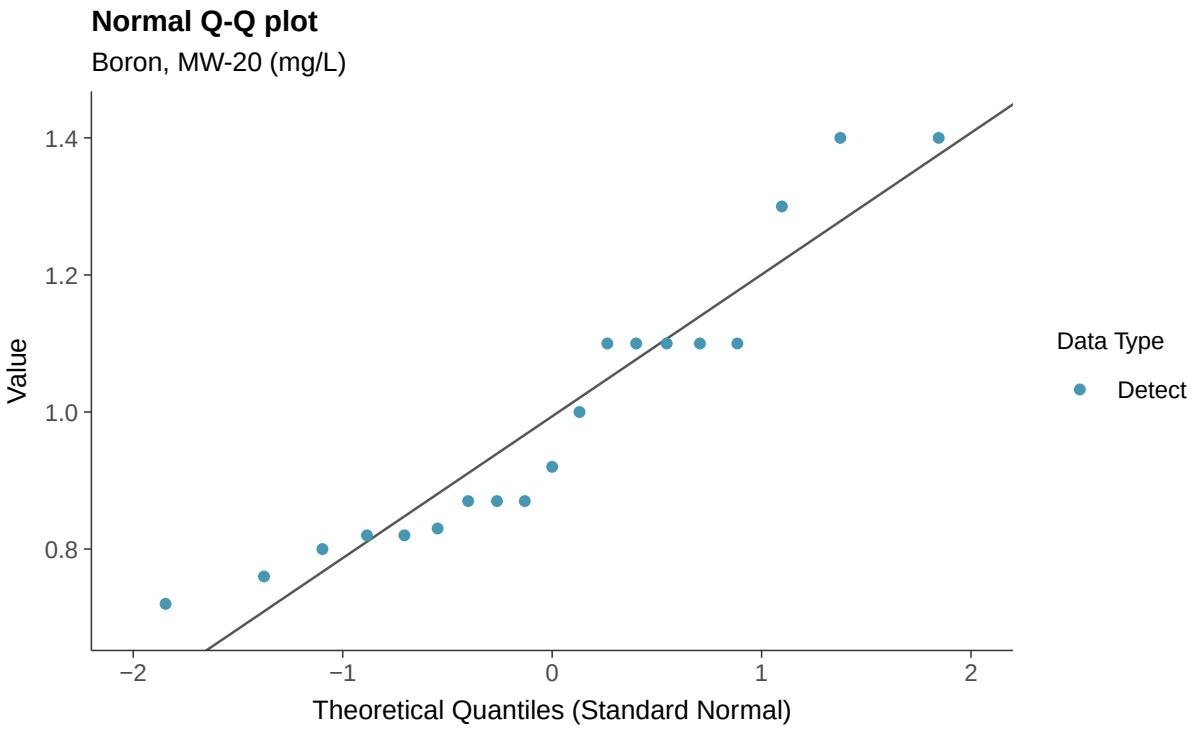
Boron, MW-20 (mg/L)

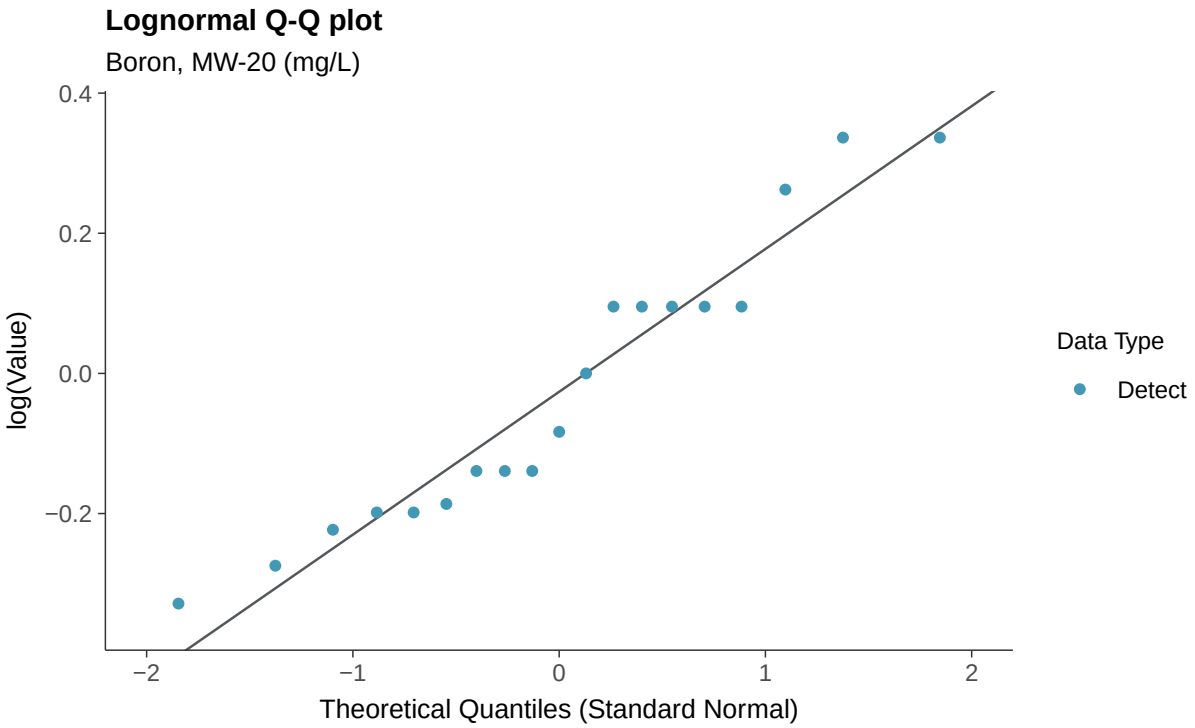


Boxplot by Season

Boron, MW-20 (mg/L)

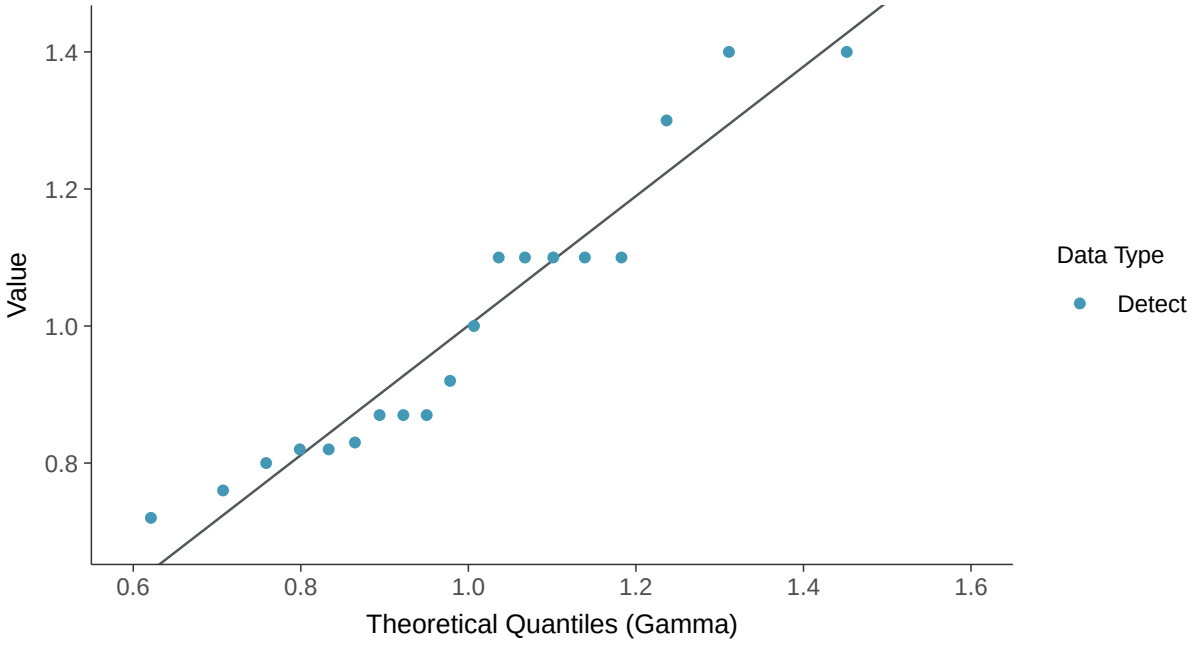



Normal Q-Q plot
Boron, MW-20 (mg/L)
Value
1.4
1.2
1.0
0.8
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Boron, MW-20 (mg/L)
log(Value)
0.4
0.2
0.0
−0.2
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

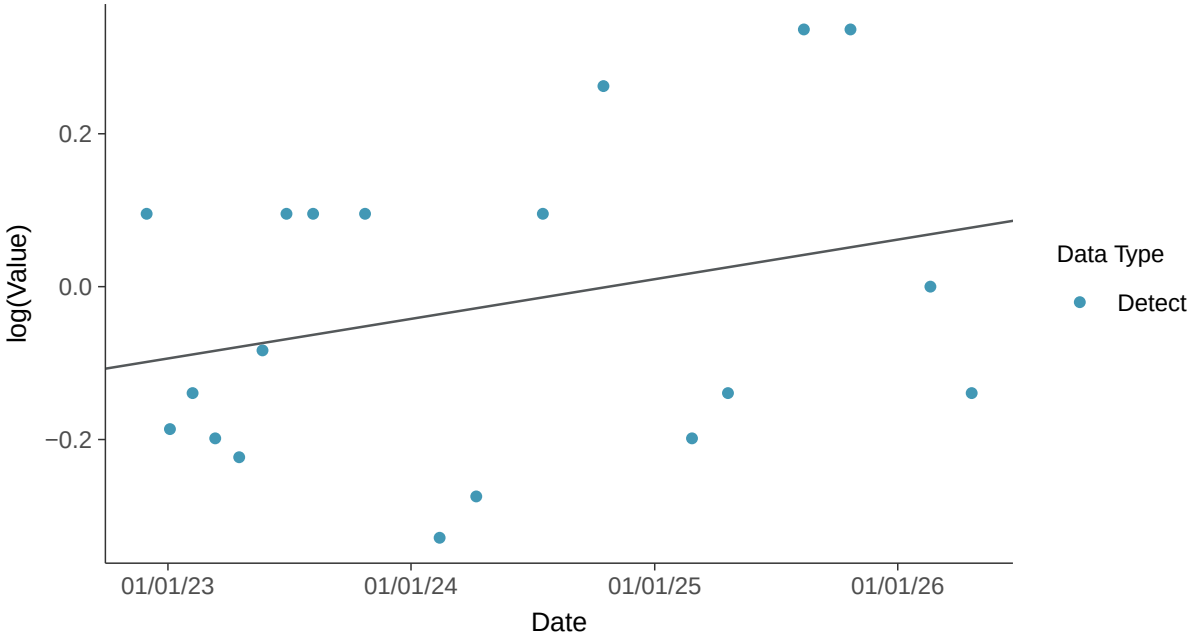
Gamma Q-Q plot

Boron, MW-20 (mg/L)



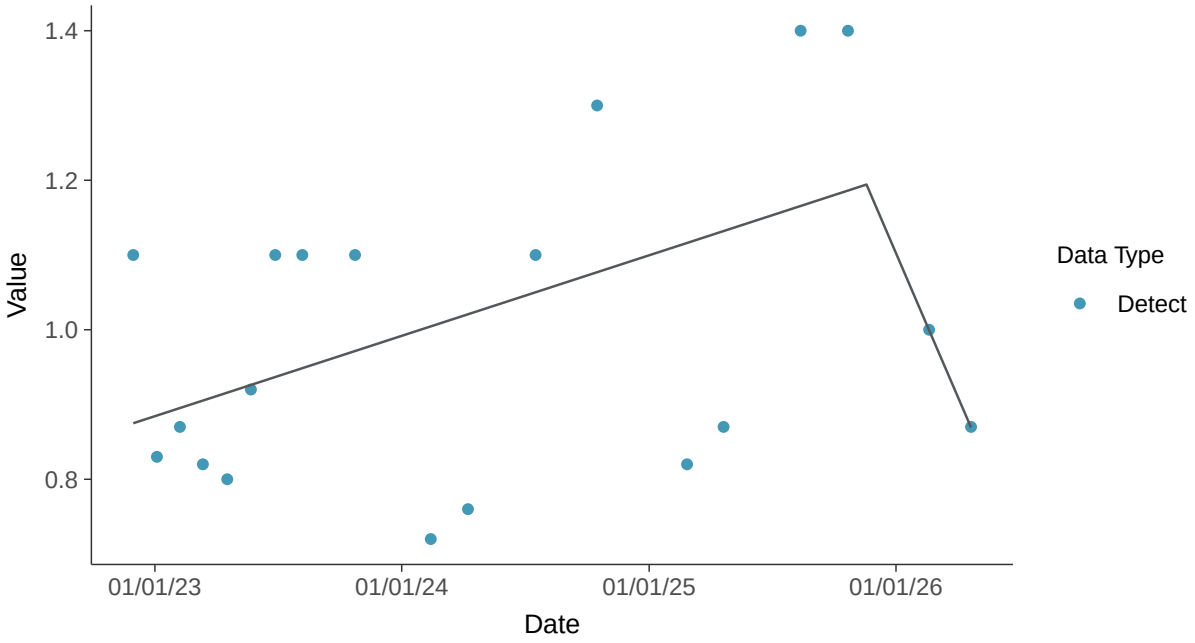
Trend Regression: Lognormal MLE

Boron, MW-20 (mg/L)



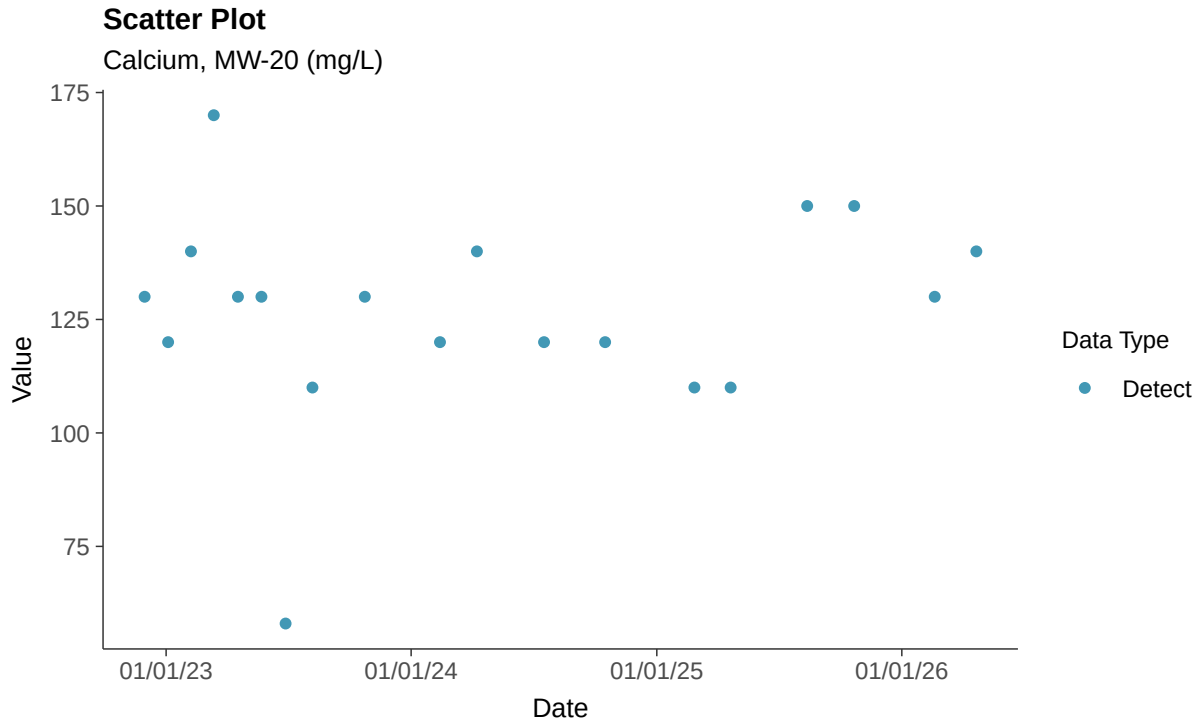
Trend Regression: Piecewise Linear-Linear

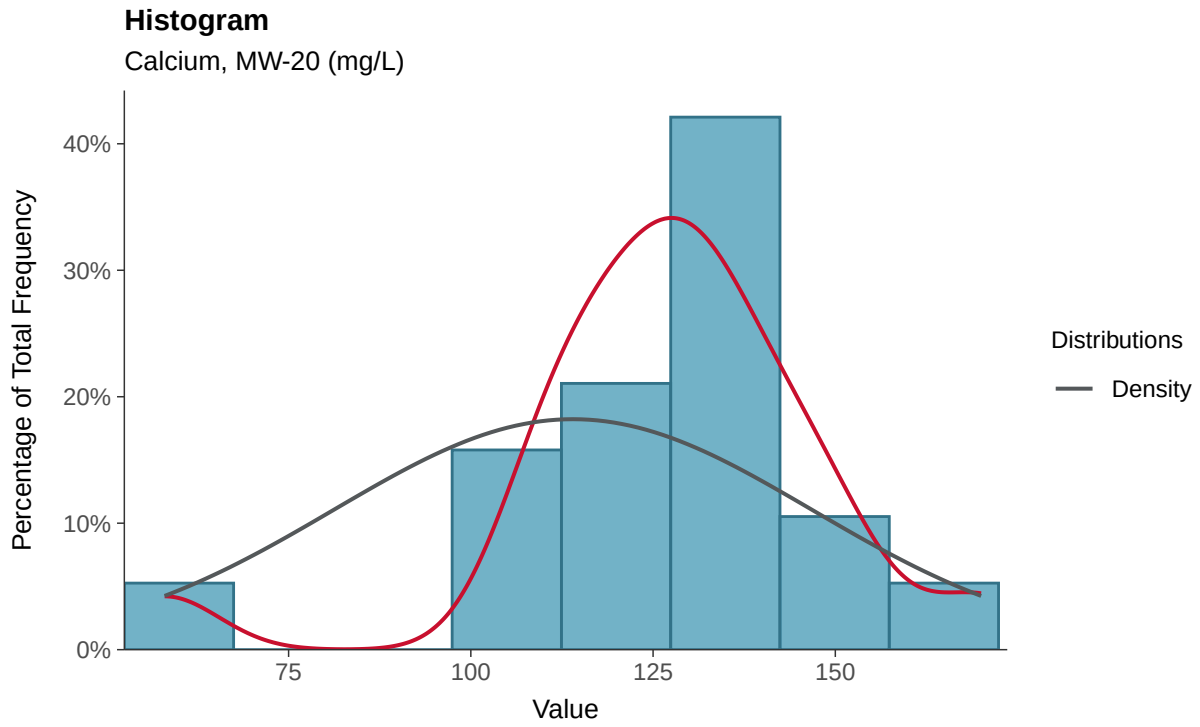
Boron, MW-20 (mg/L)



Appendix III: Calcium, MW-20

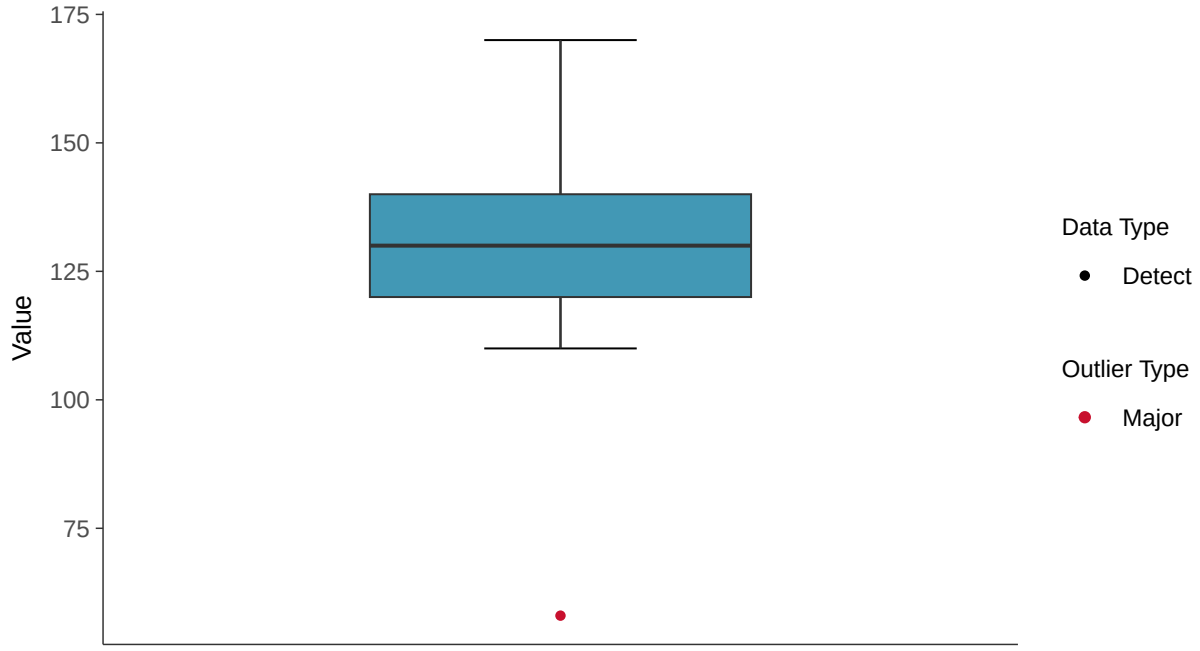
ID: 30_1_3_107





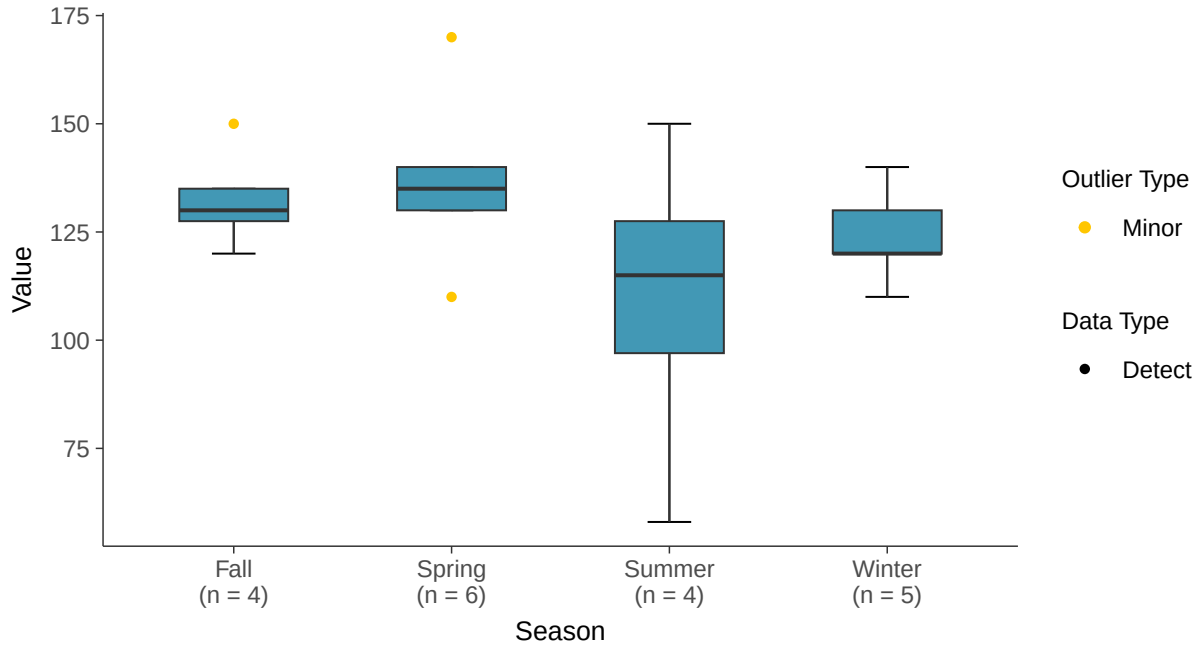
Boxplot

Calcium, MW-20 (mg/L)



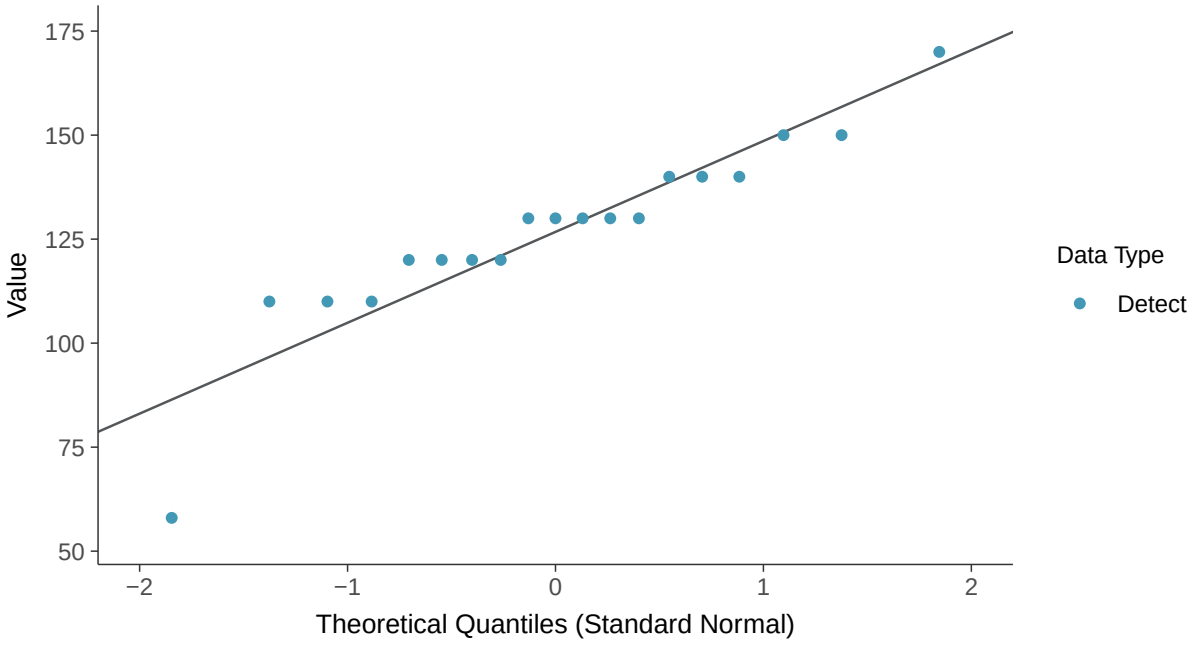
Boxplot by Season

Calcium, MW-20 (mg/L)



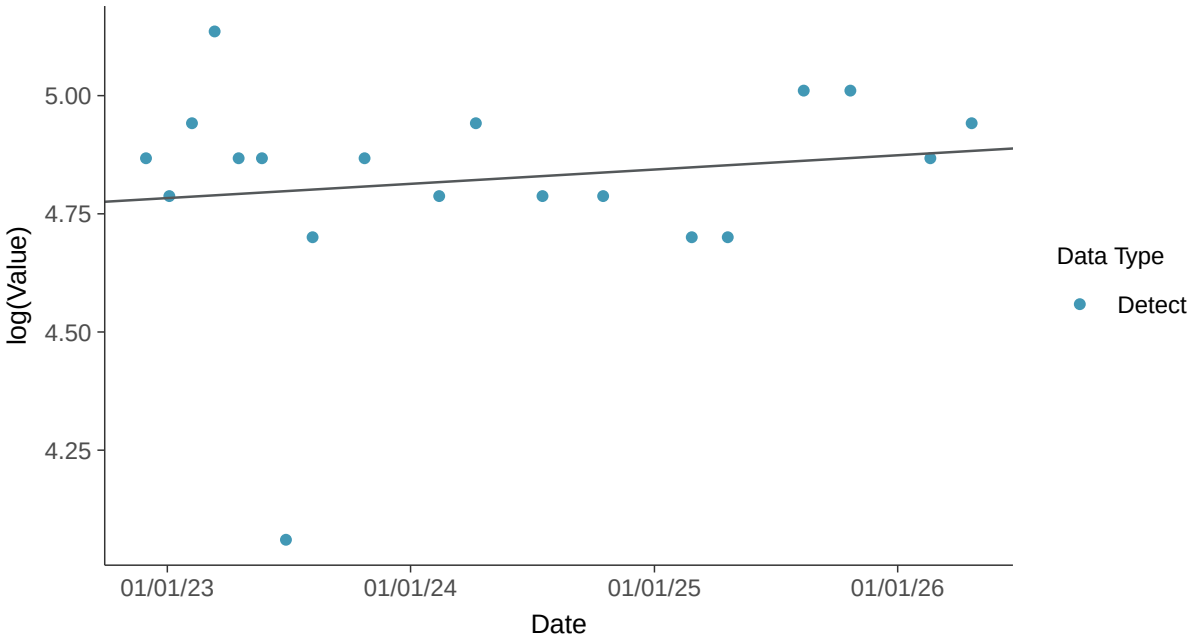
Normal Q-Q plot

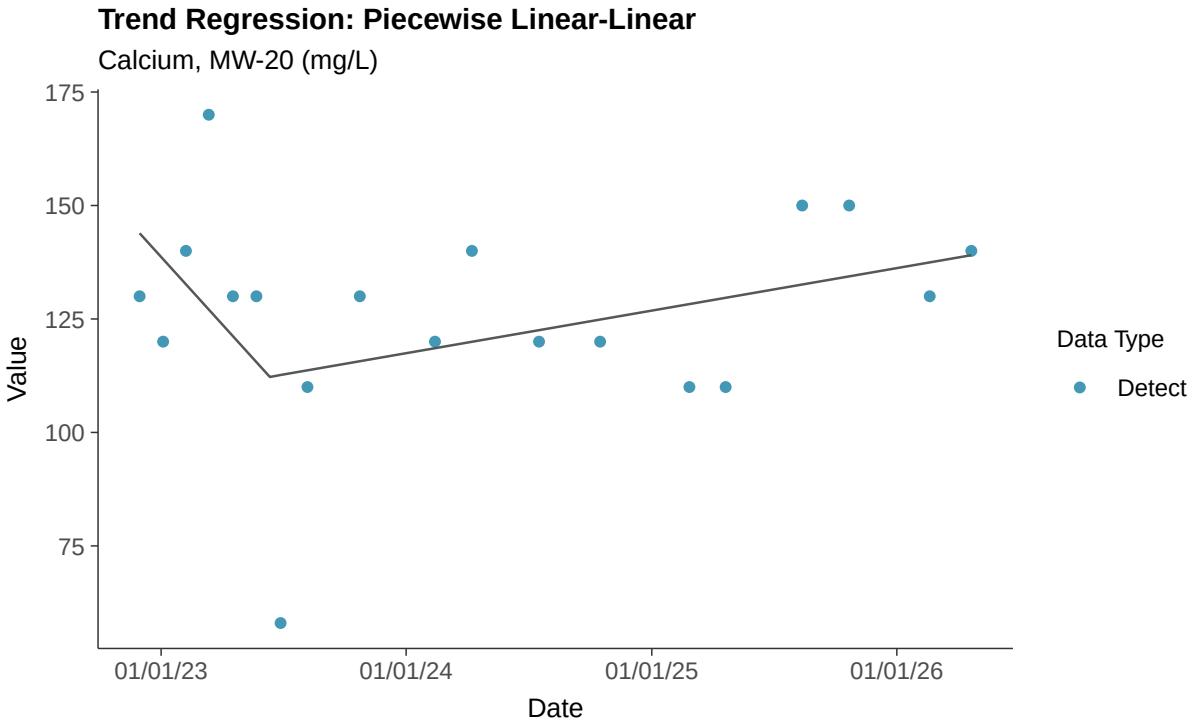
Calcium, MW-20 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-20 (mg/L)



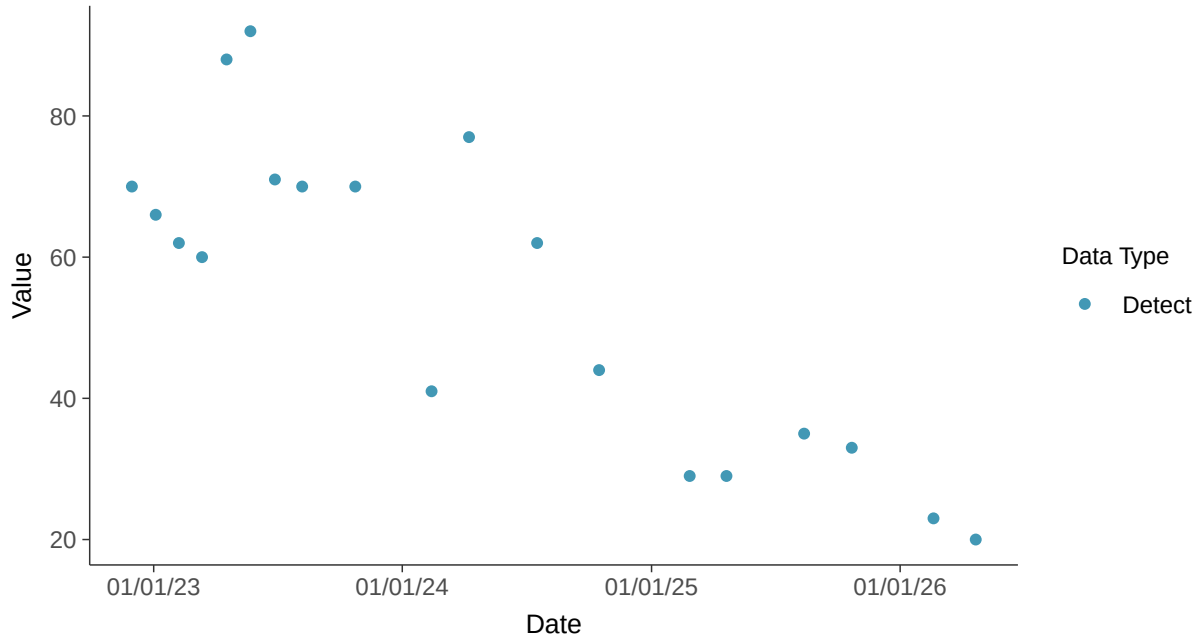

Trend Regression: Piecewise Linear-Linear
Calcium, MW-20 (mg/L)
175
150
125
100
75
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Chloride (as Cl), MW-20

ID: 30_1_3_108

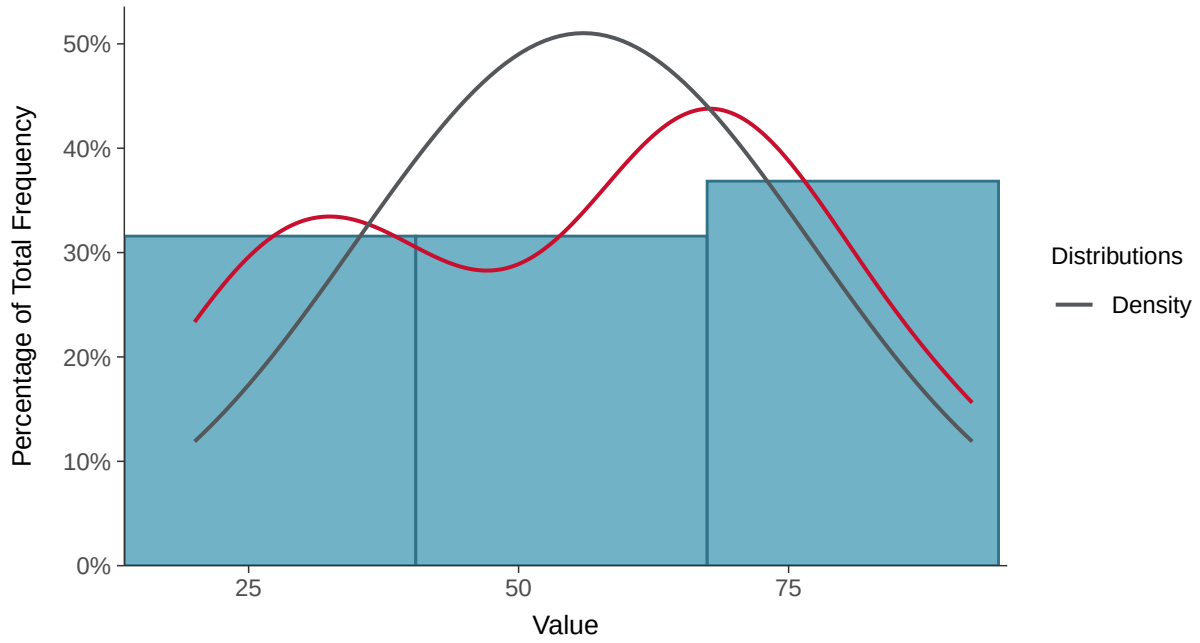
Scatter Plot

Chloride (as Cl), MW-20 (mg/L)



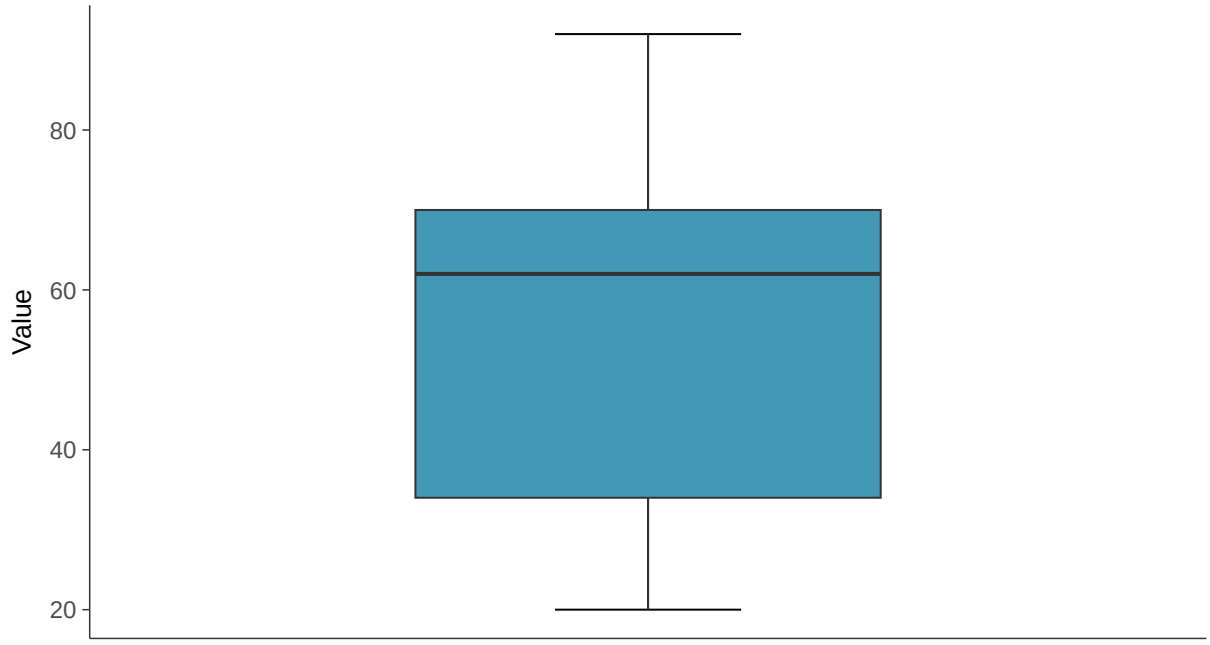
Histogram

Chloride (as Cl), MW-20 (mg/L)



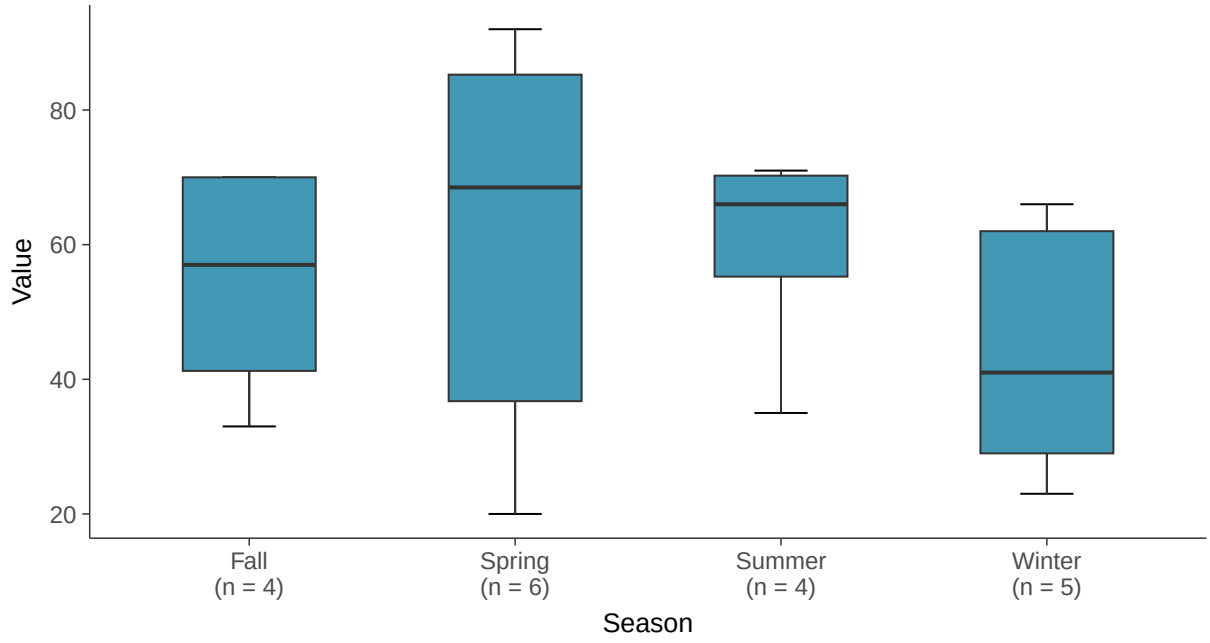
Boxplot

Chloride (as Cl), MW-20 (mg/L)



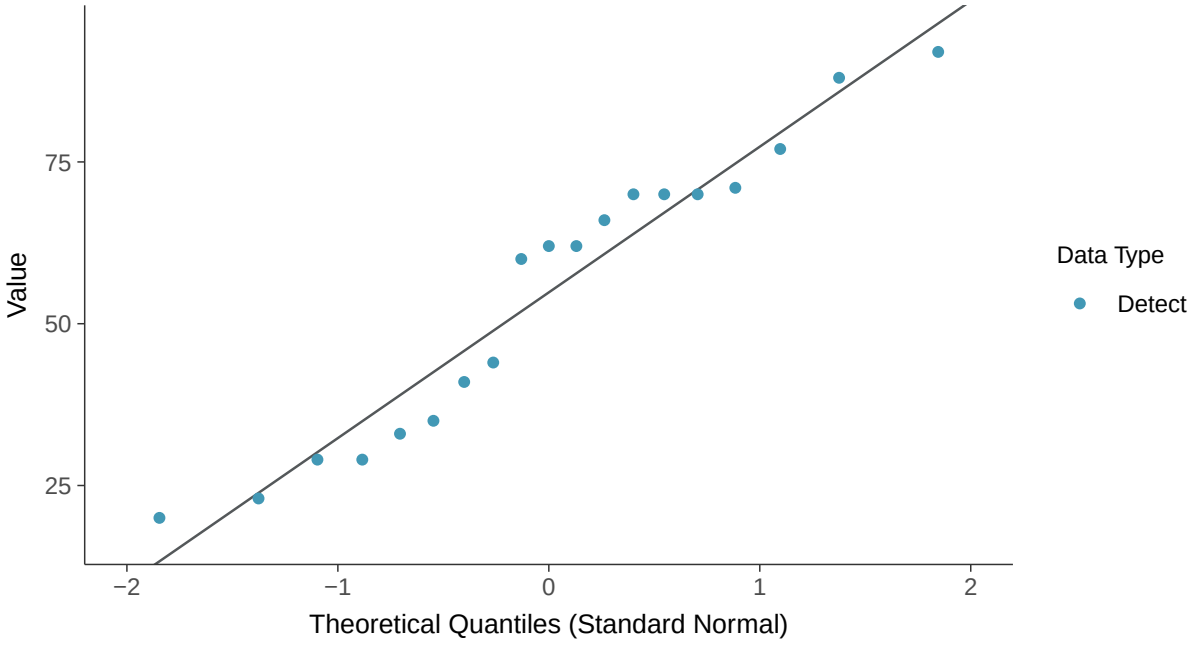
Boxplot by Season

Chloride (as Cl), MW-20 (mg/L)



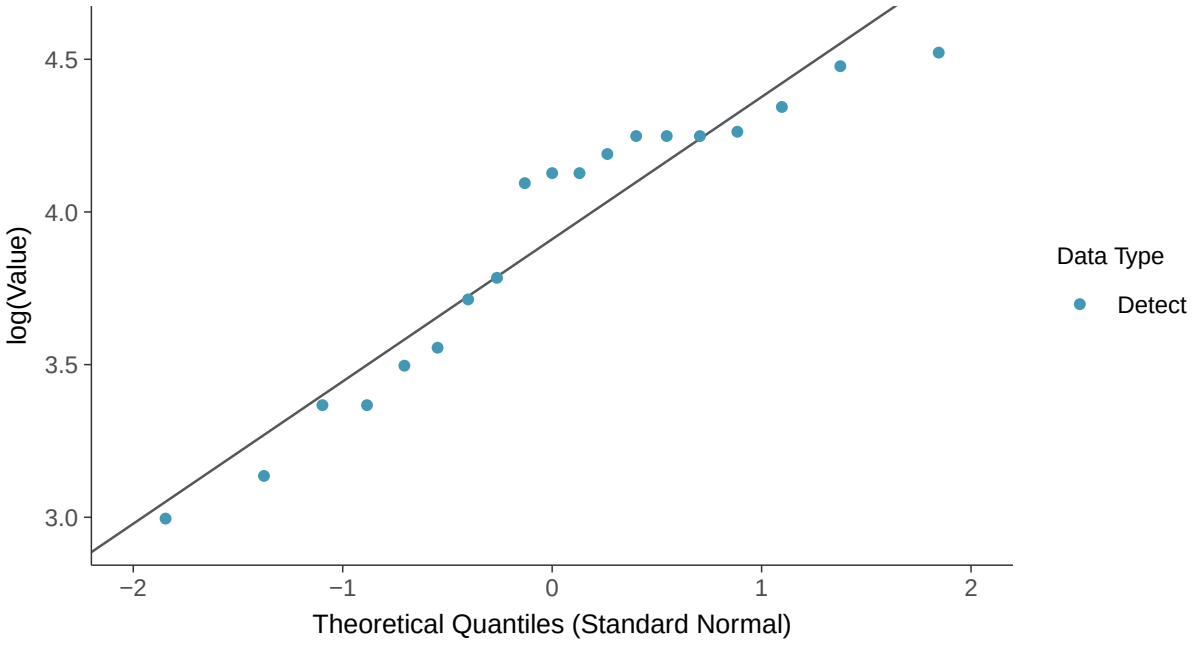
Normal Q-Q plot

Chloride (as Cl), MW-20 (mg/L)



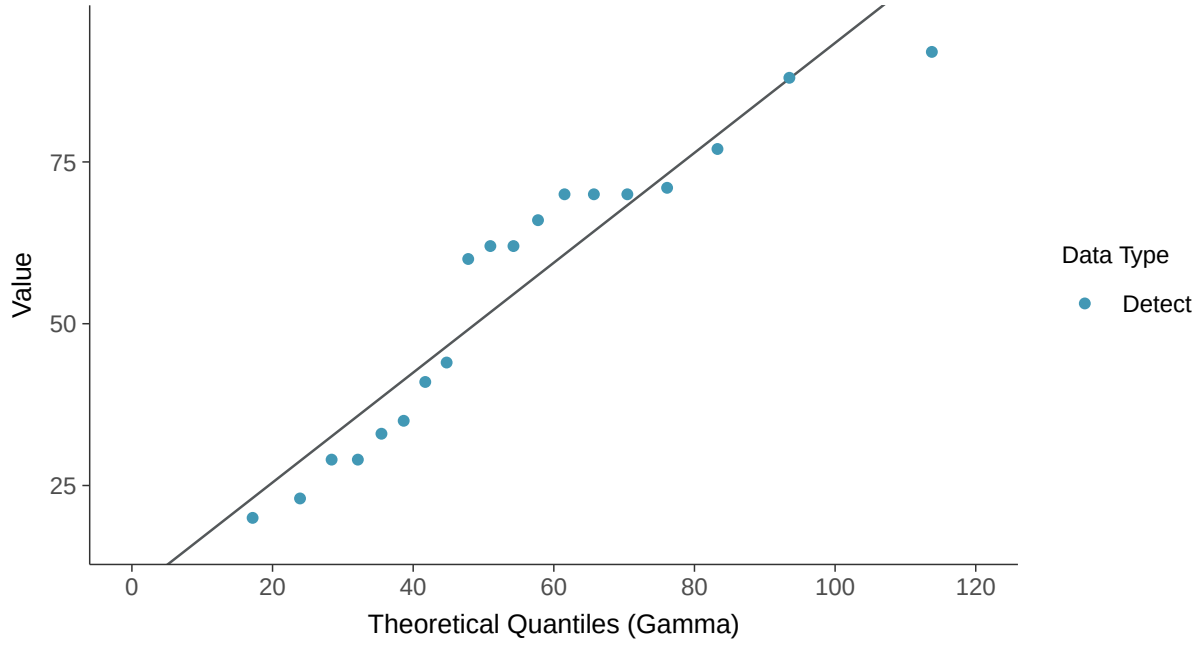
Lognormal Q-Q plot

Chloride (as Cl), MW-20 (mg/L)



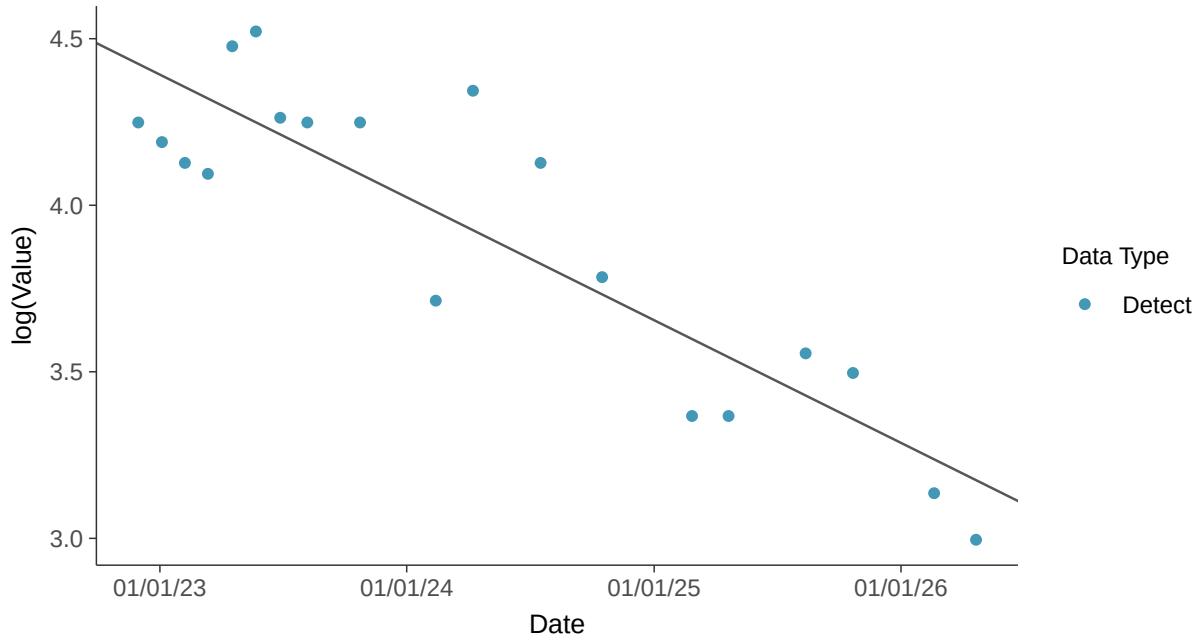
Gamma Q-Q plot

Chloride (as Cl), MW-20 (mg/L)



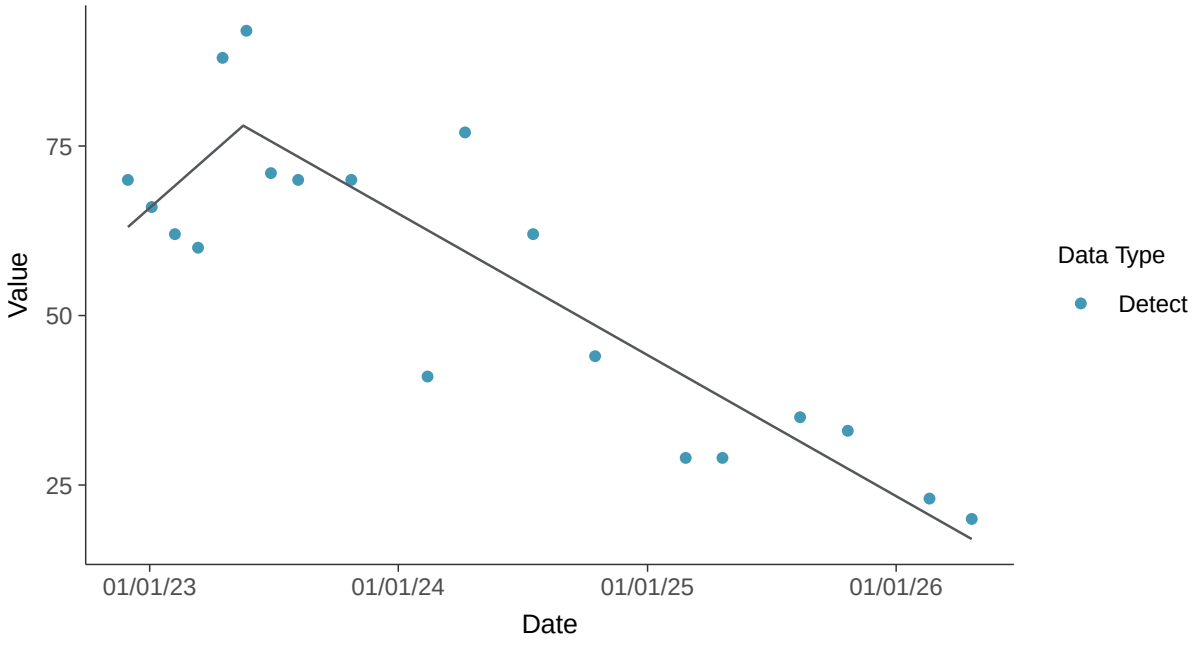
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-20 (mg/L)



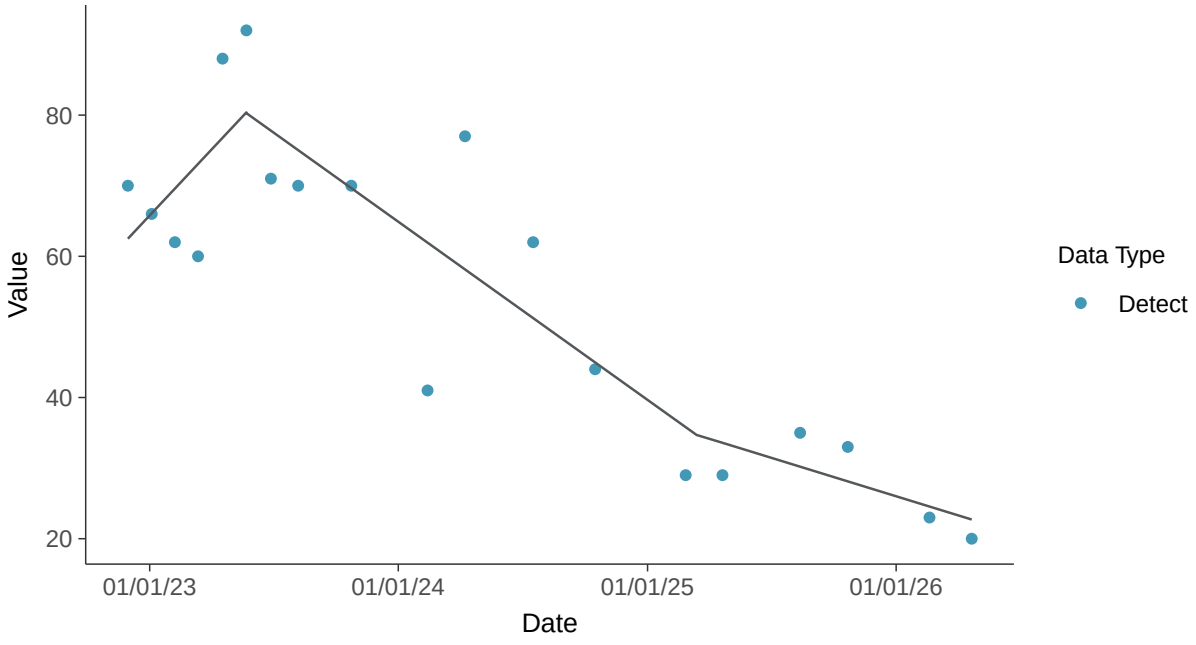
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-20 (mg/L)

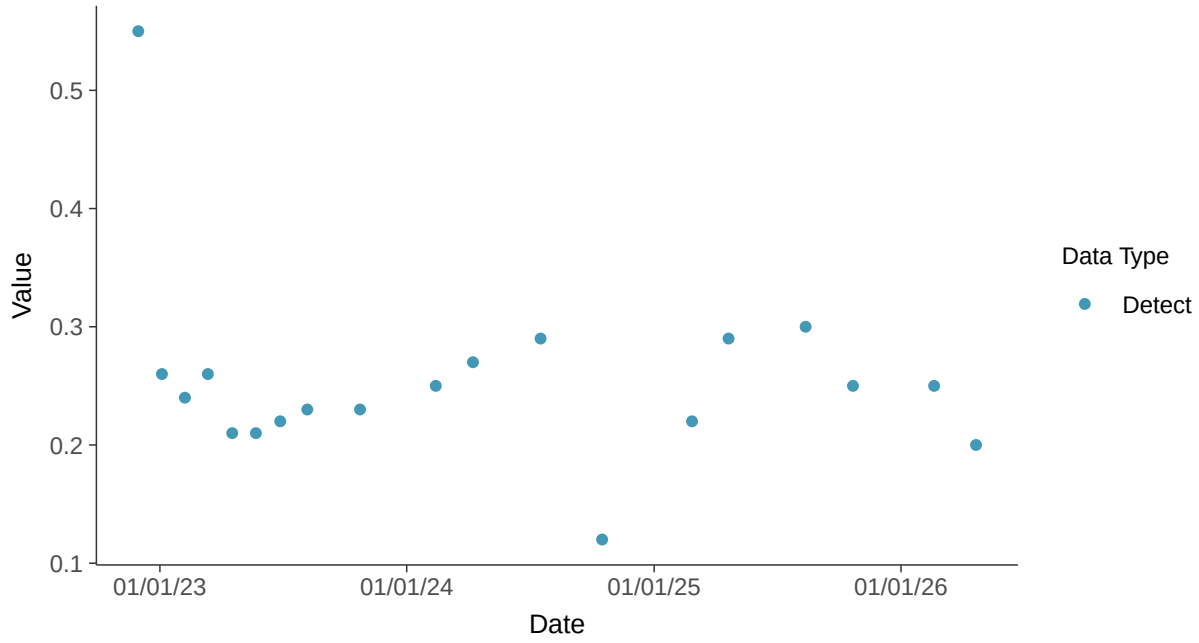


Appendix III: Fluoride, MW-20

ID: 30_1_3_112

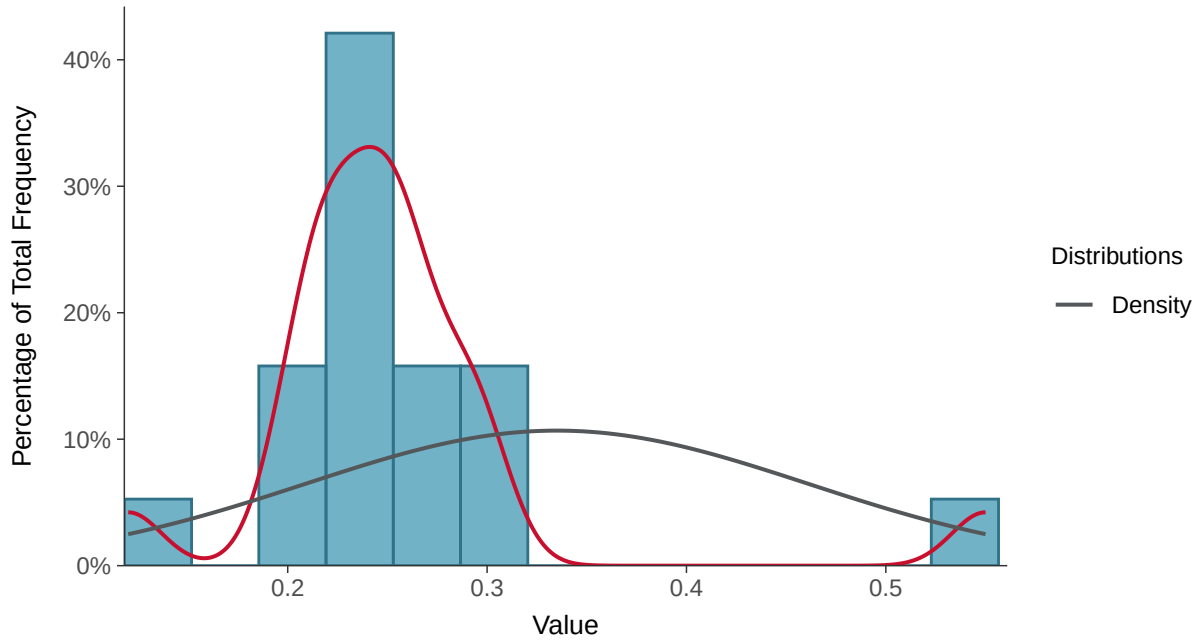
Scatter Plot

Fluoride, MW-20 (mg/L)



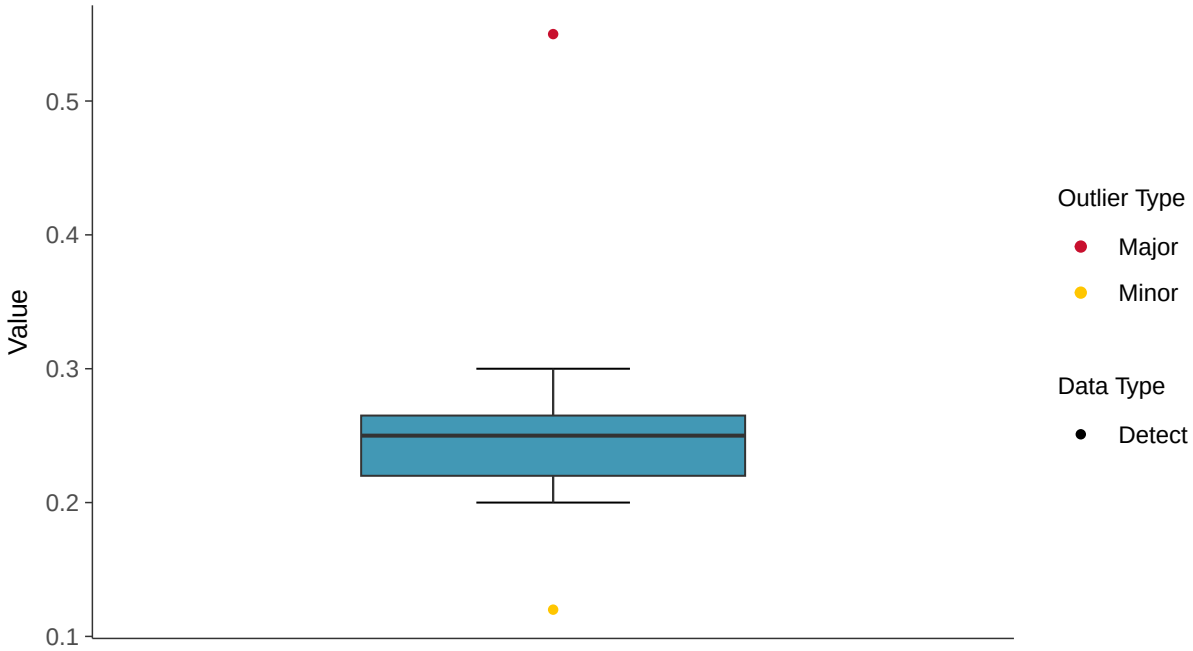
Histogram

Fluoride, MW-20 (mg/L)



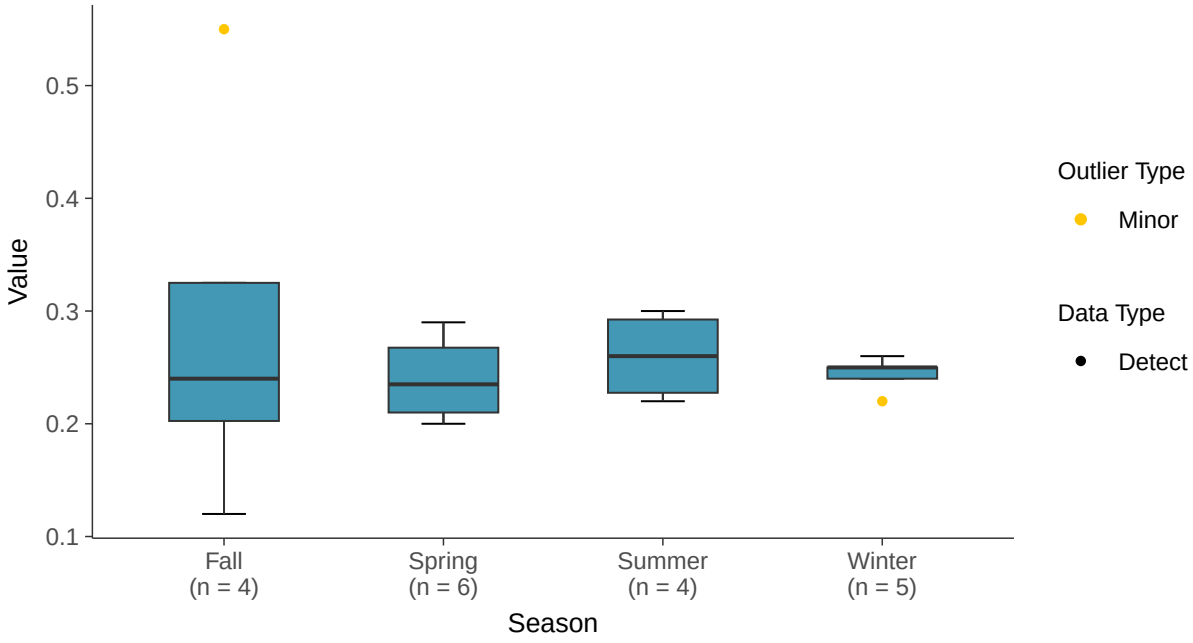
Boxplot

Fluoride, MW-20 (mg/L)



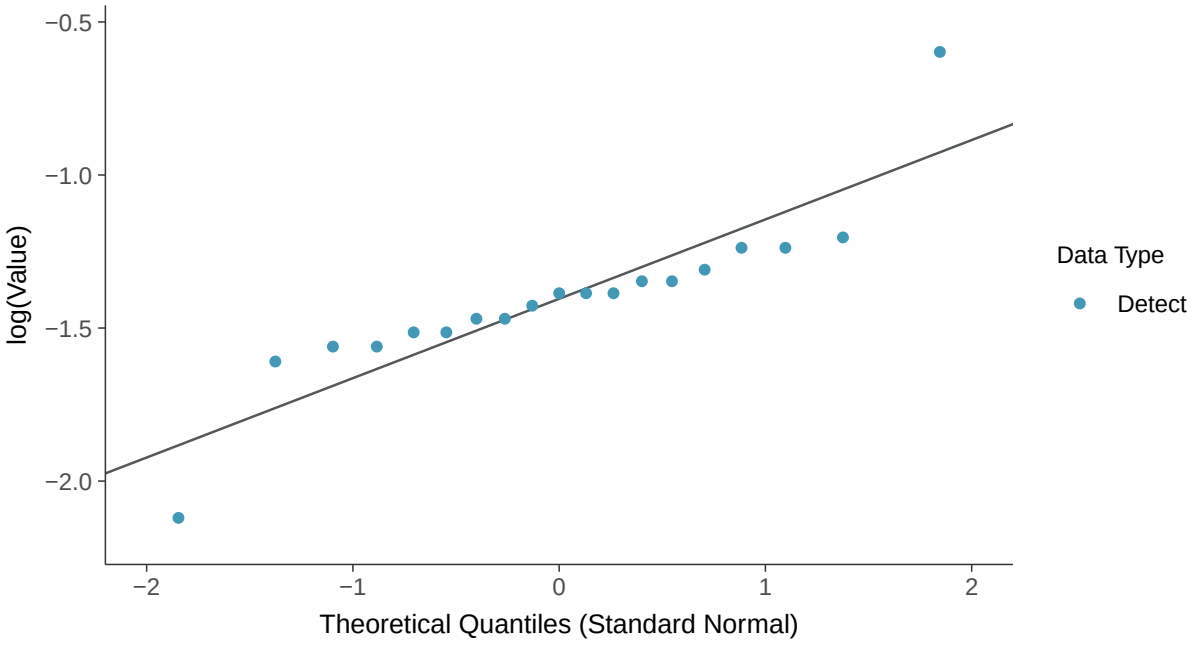
Boxplot by Season

Fluoride, MW-20 (mg/L)



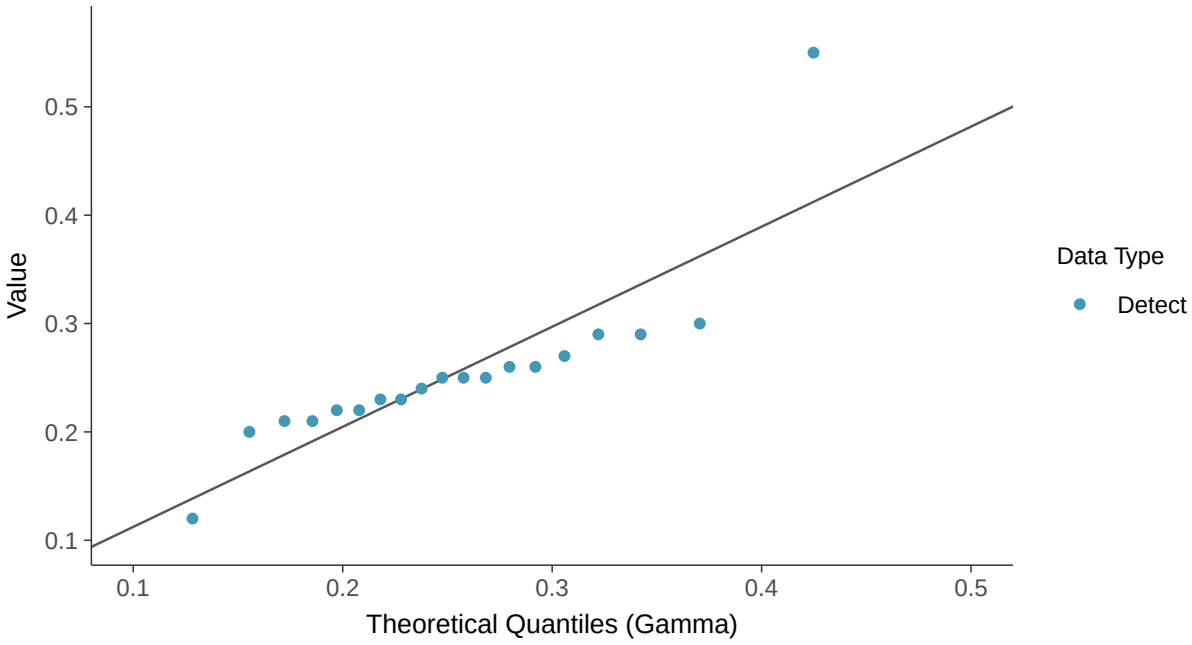
Lognormal Q-Q plot

Fluoride, MW-20 (mg/L)



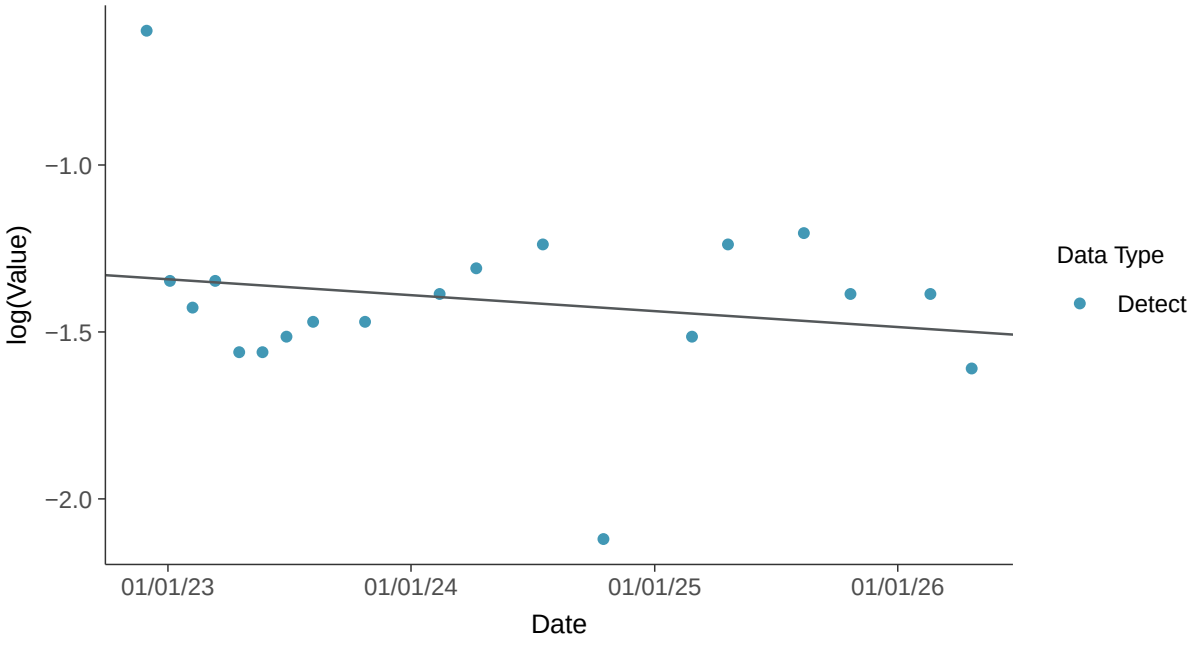
Gamma Q-Q plot

Fluoride, MW-20 (mg/L)



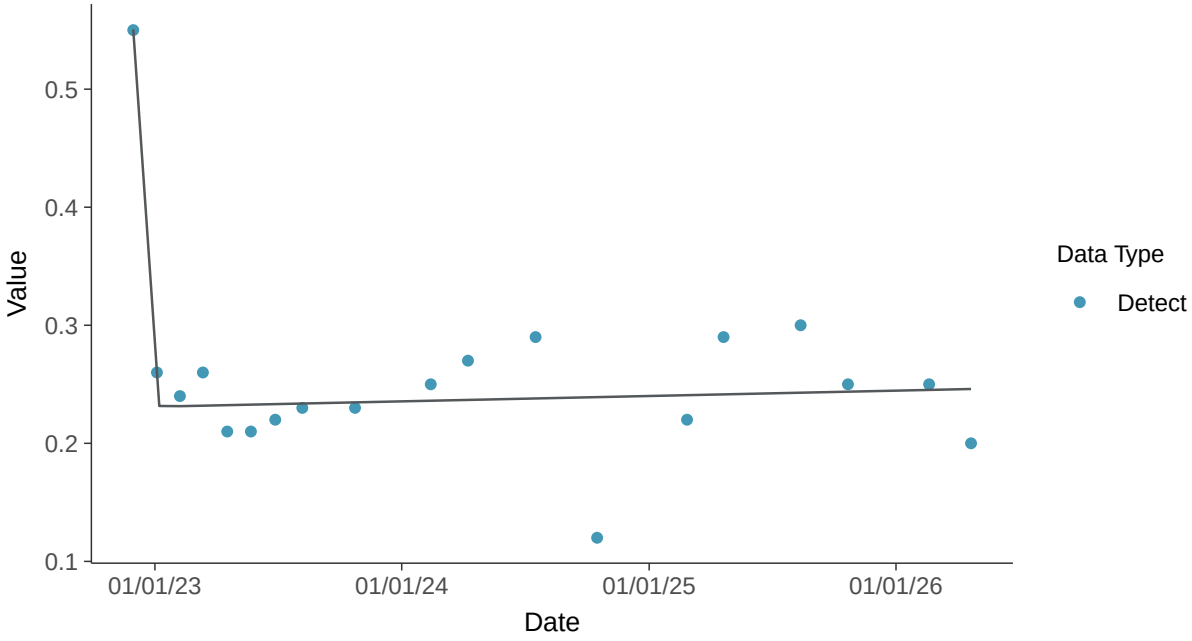
Trend Regression: Lognormal MLE

Fluoride, MW-20 (mg/L)



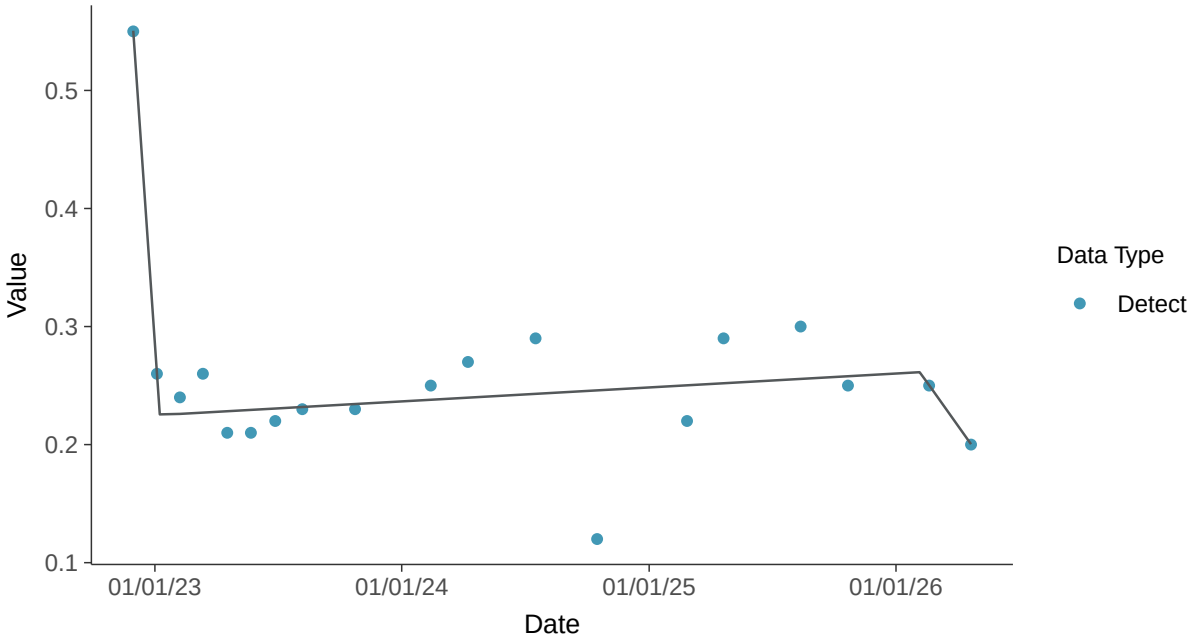
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-20 (mg/L)

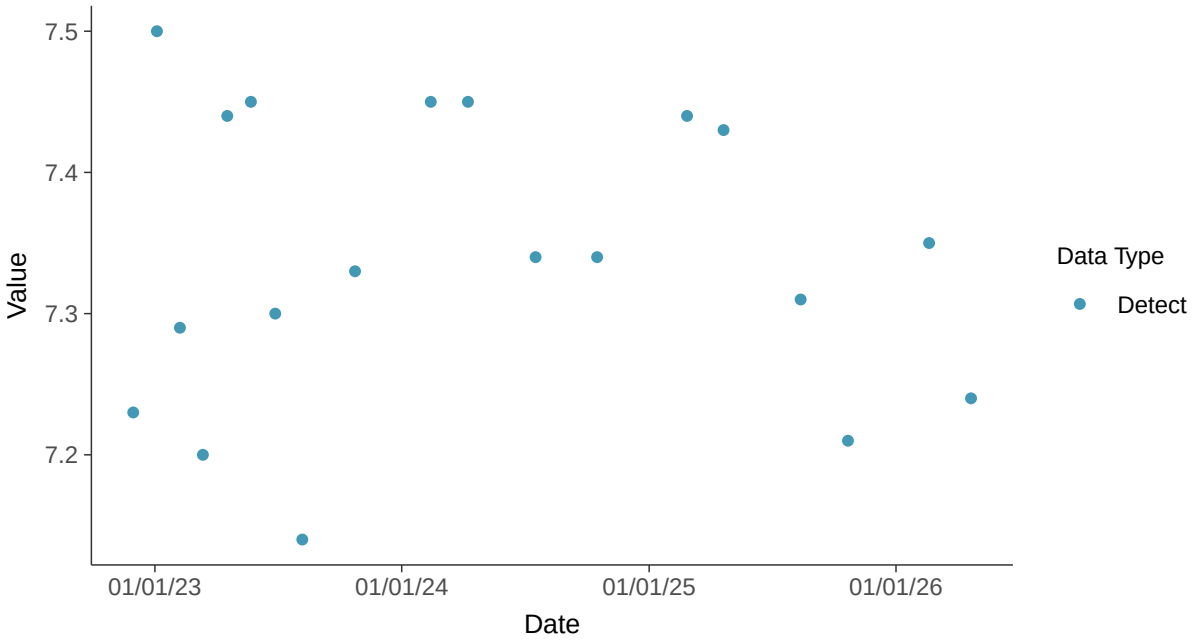


Appendix III: pH (field), MW-20

ID: 30_1_3_120

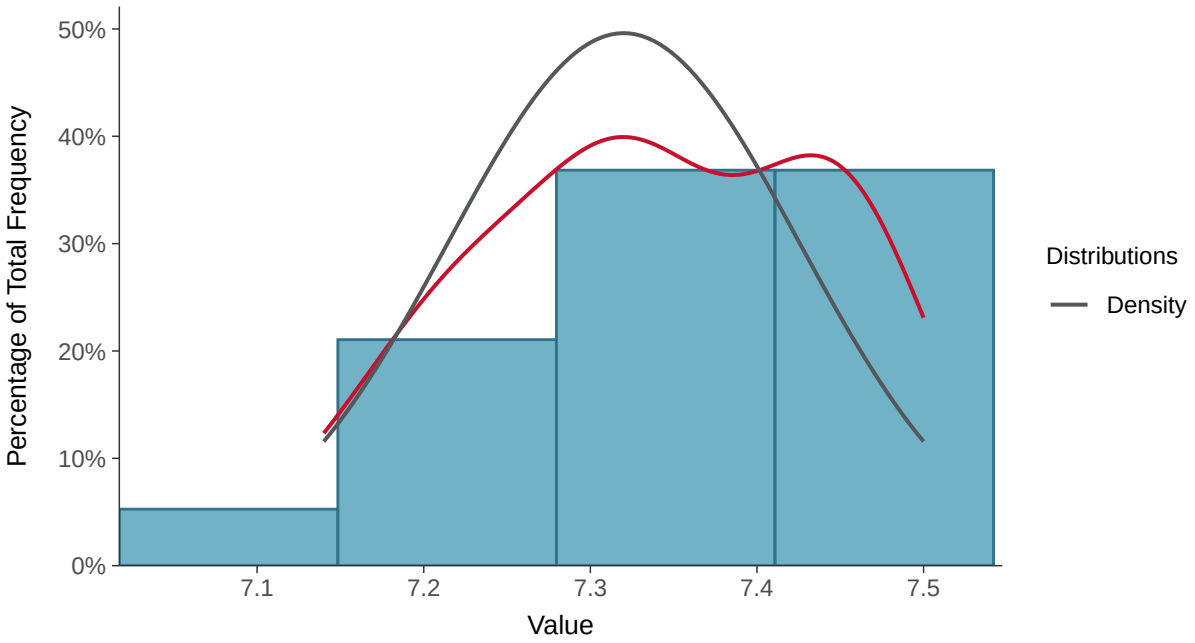
Scatter Plot

pH (field), MW-20 (su)



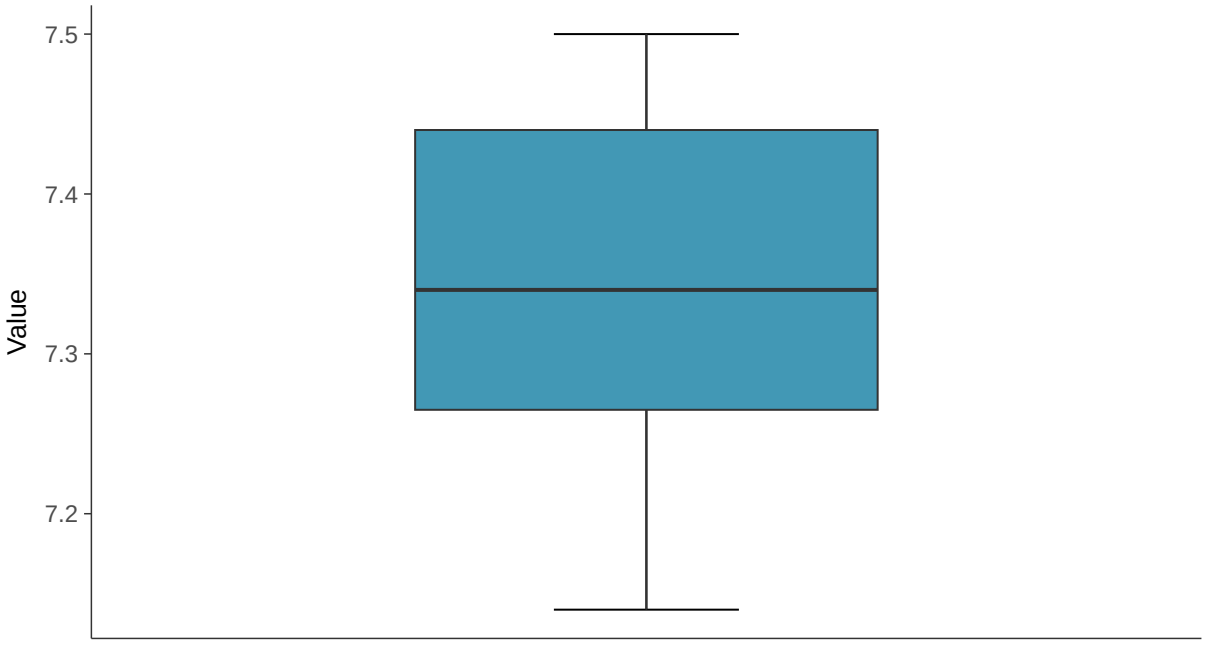
Histogram

pH (field), MW-20 (su)



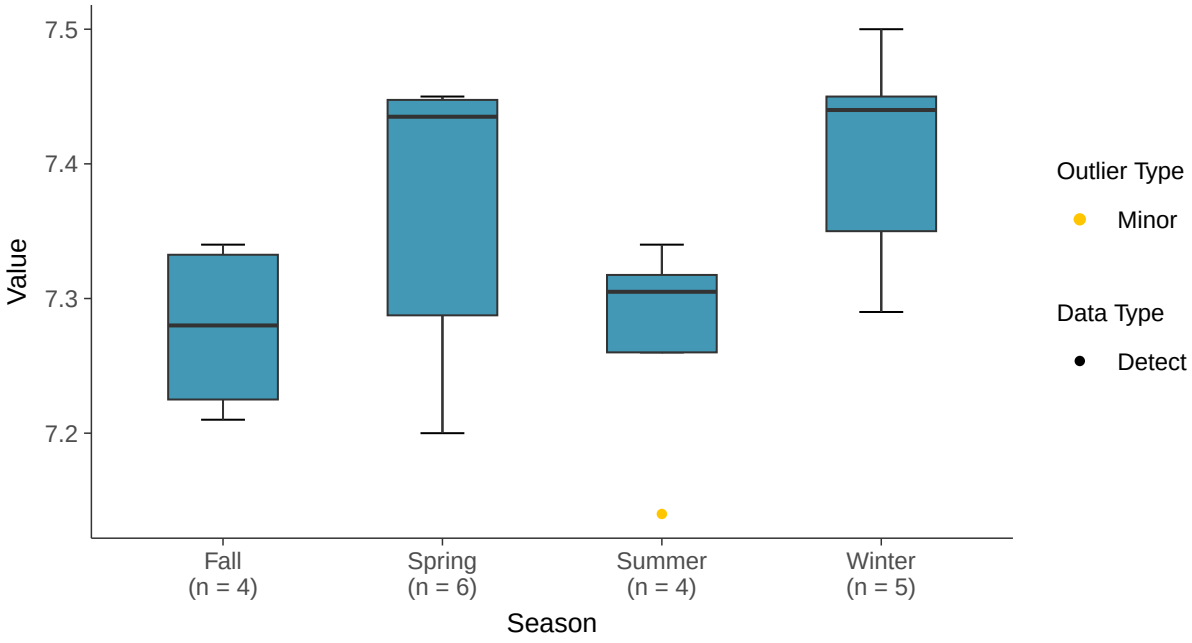
Boxplot

pH (field), MW-20 (su)



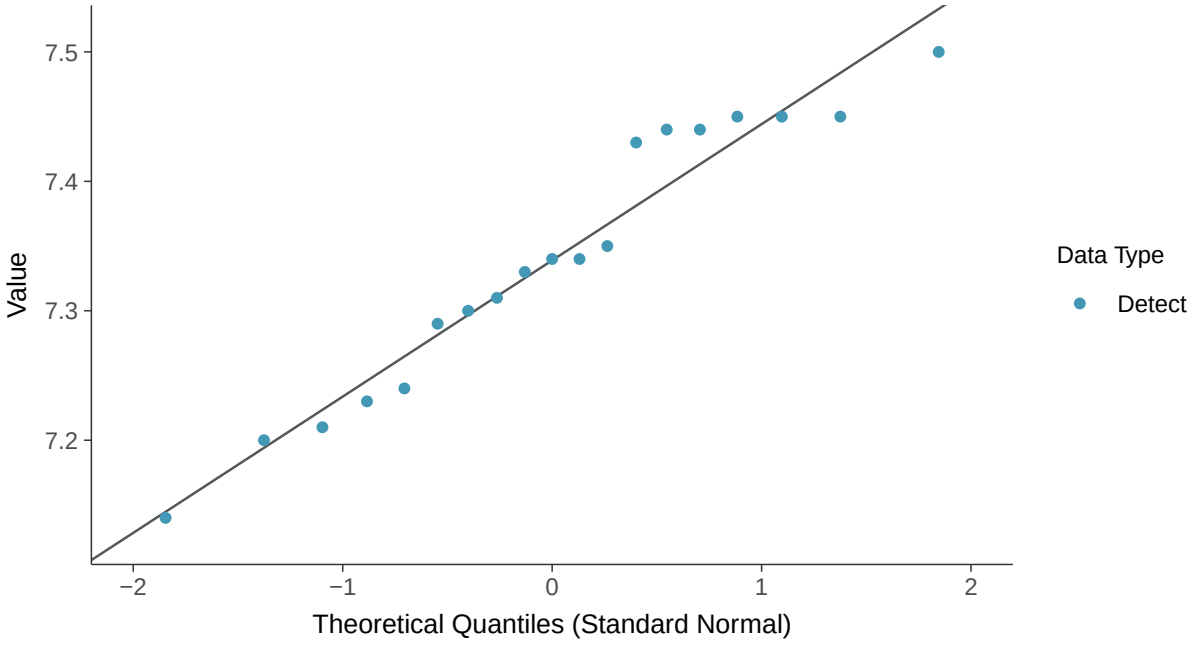
Boxplot by Season

pH (field), MW-20 (su)



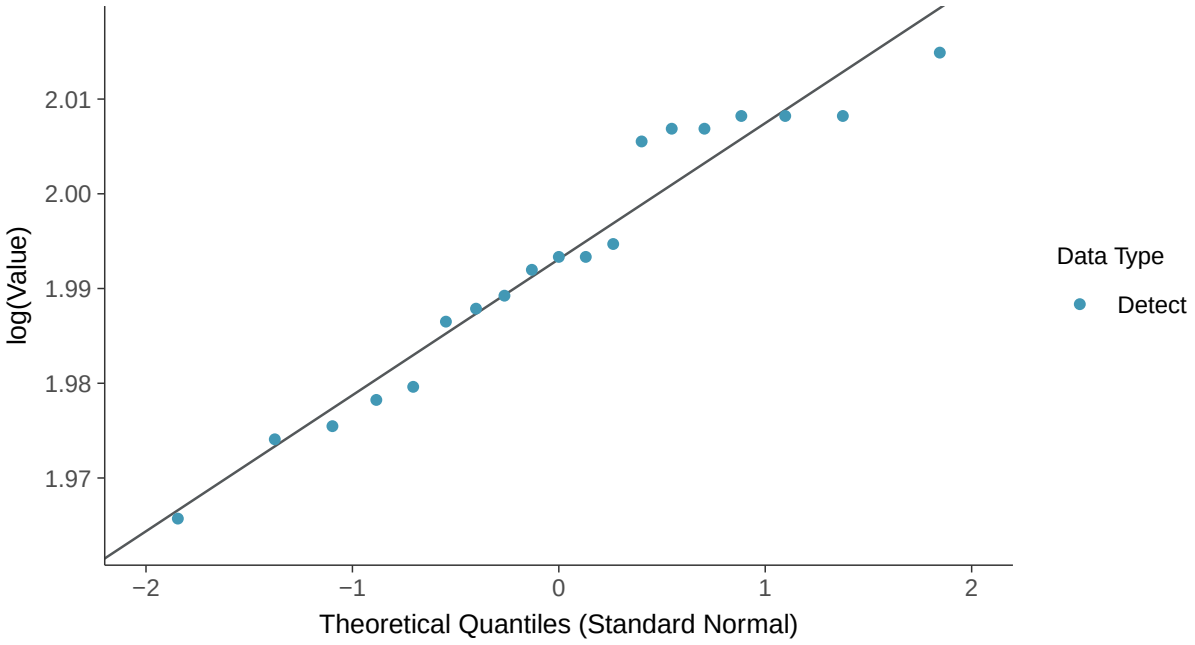
Normal Q-Q plot

pH (field), MW-20 (su)



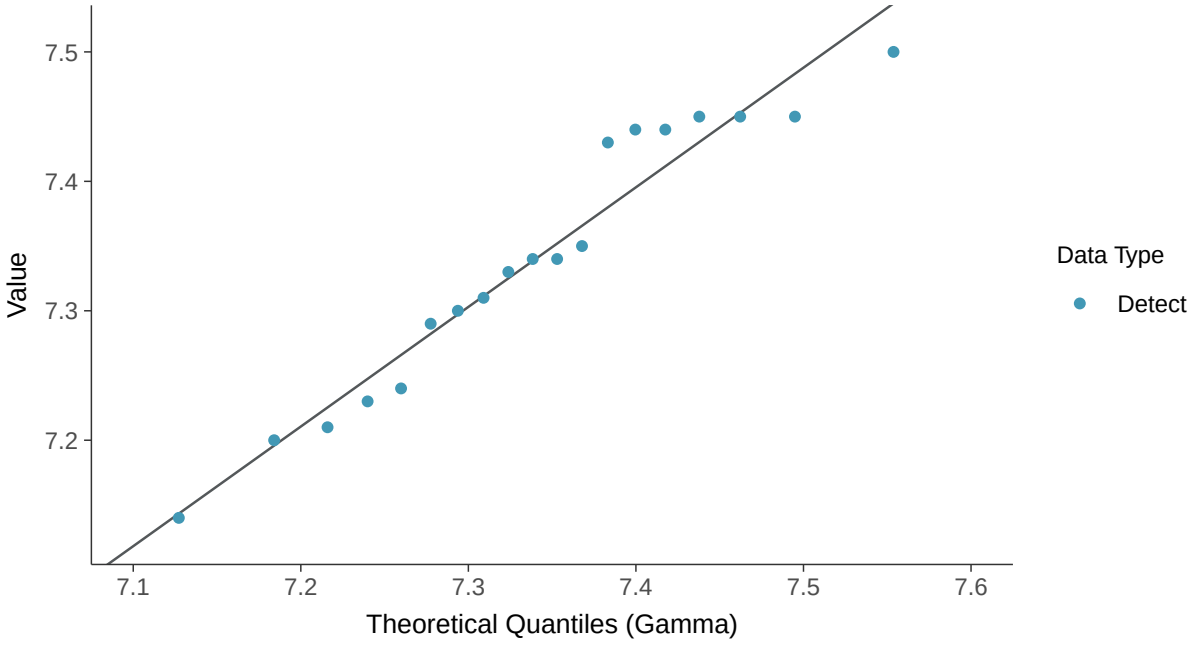
Lognormal Q-Q plot

pH (field), MW-20 (su)



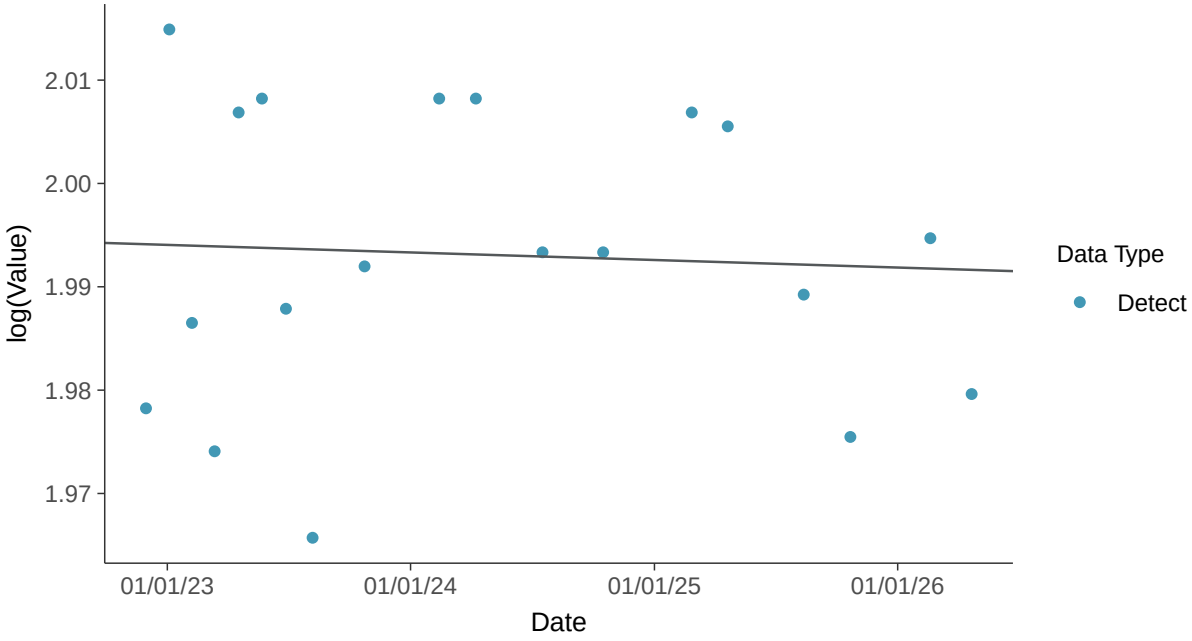
Gamma Q-Q plot

pH (field), MW-20 (su)



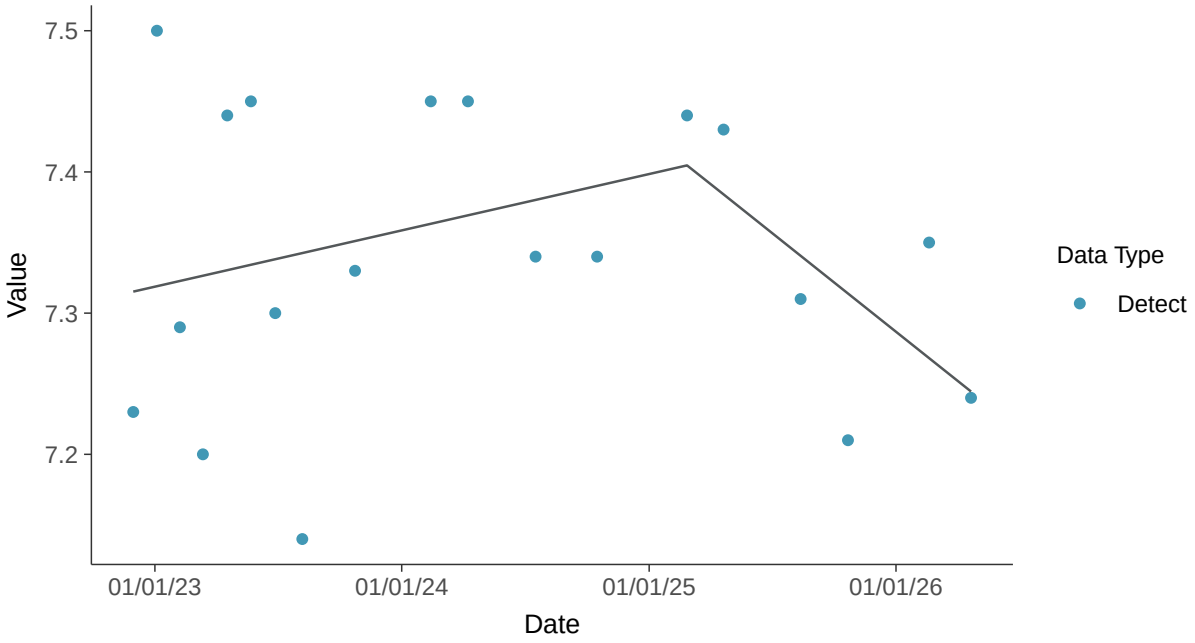
Trend Regression: Lognormal MLE

pH (field), MW-20 (su)



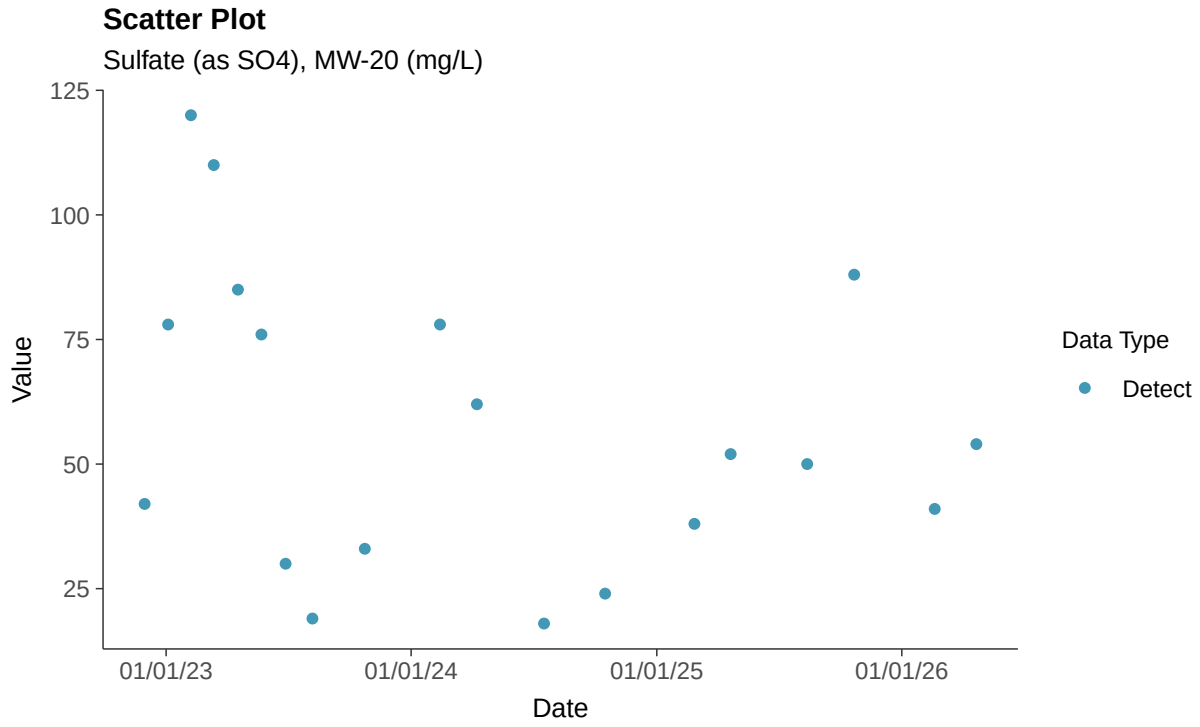
Trend Regression: Piecewise Linear-Linear

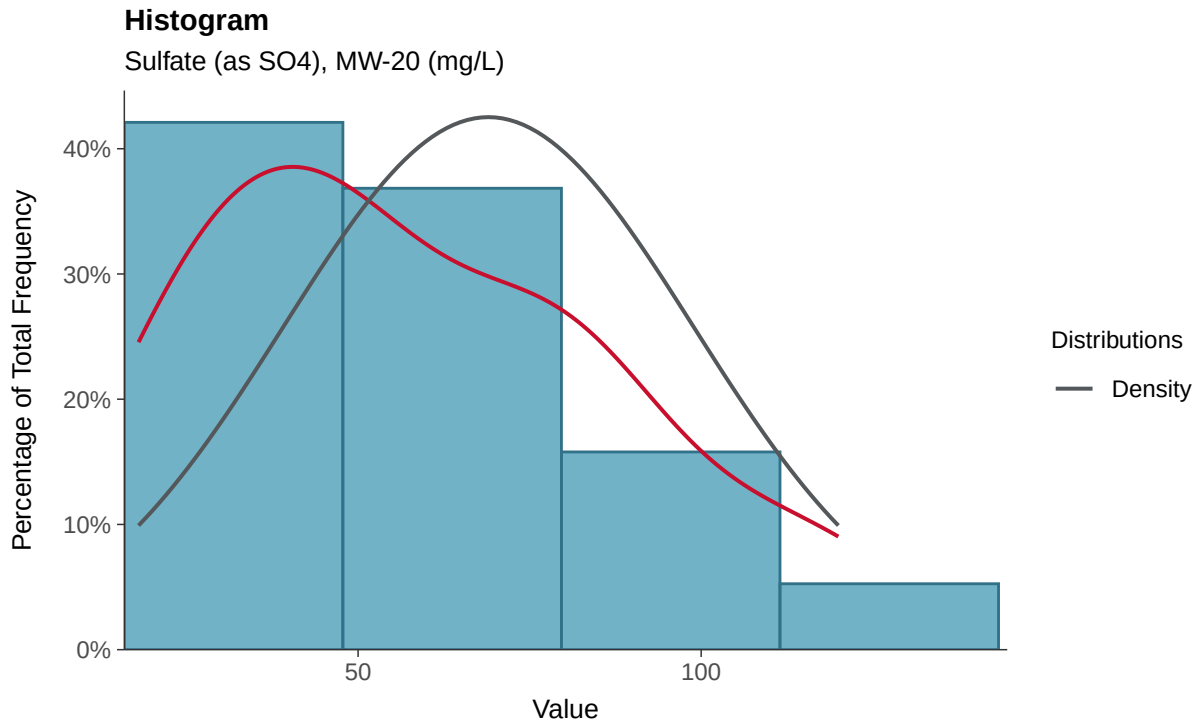
pH (field), MW-20 (su)



Appendix III: Sulfate (as SO4), MW-20

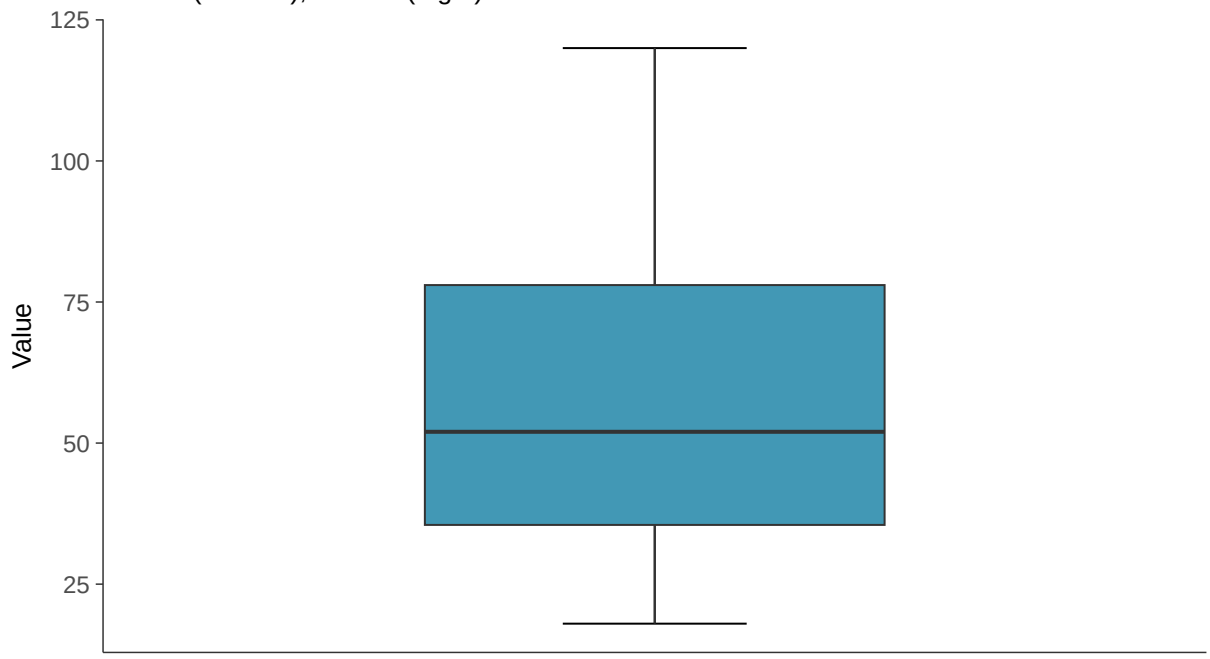
ID: 30_1_3_124





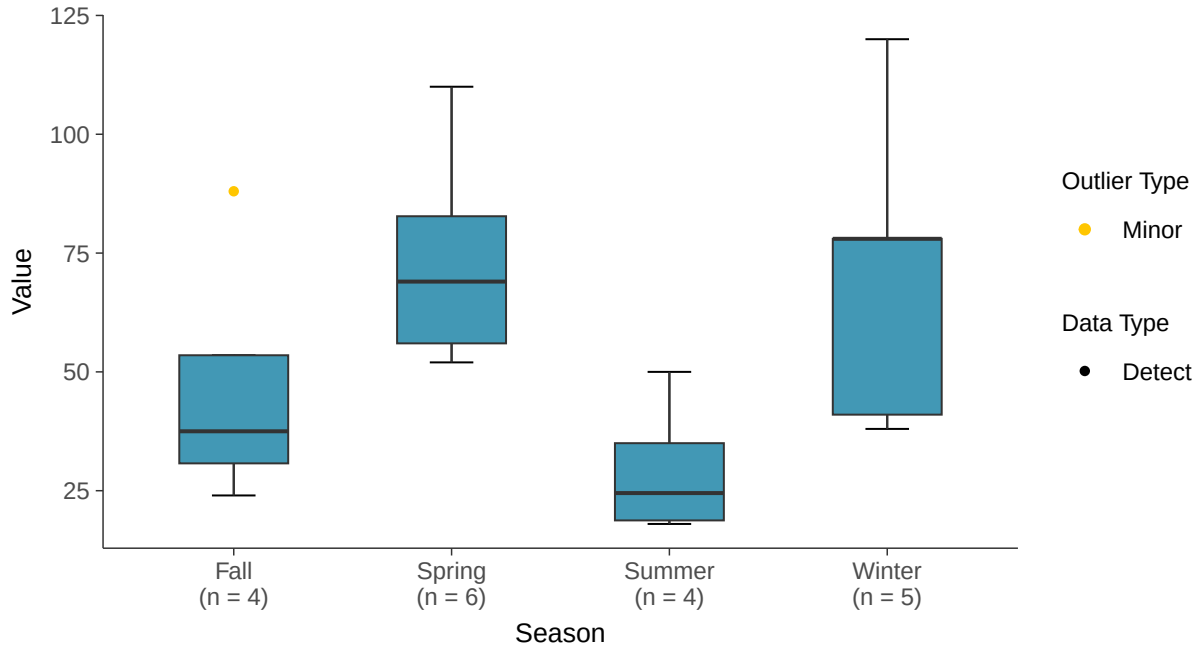
Boxplot

Sulfate (as SO4), MW-20 (mg/L)



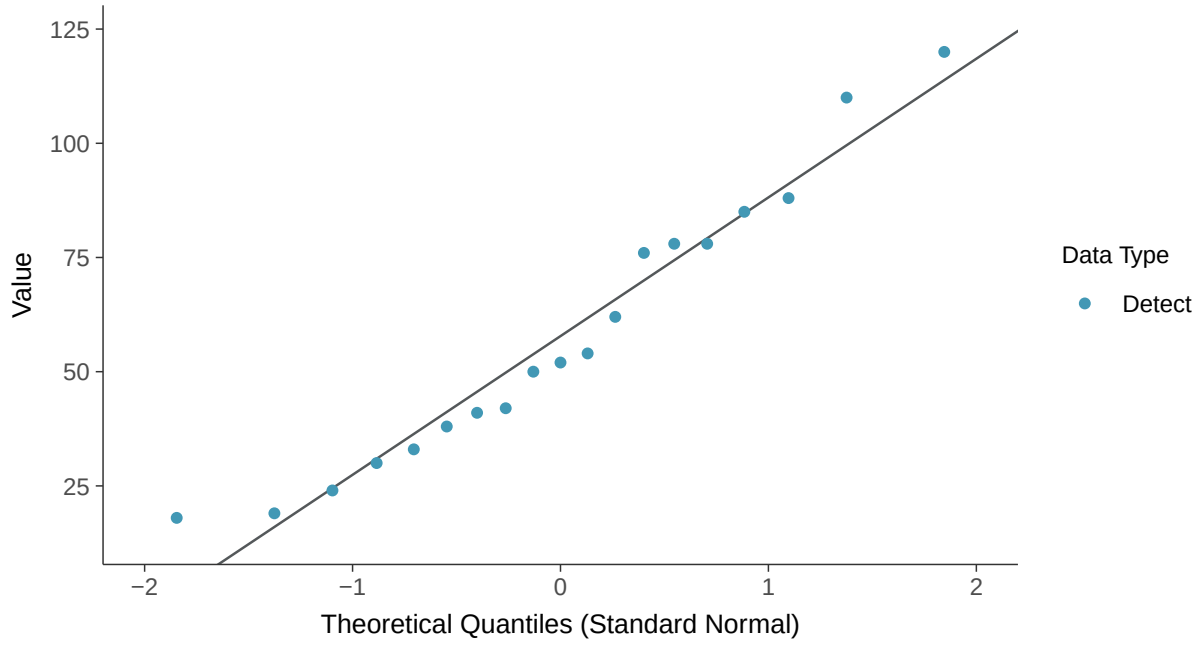
Boxplot by Season

Sulfate (as SO4), MW-20 (mg/L)



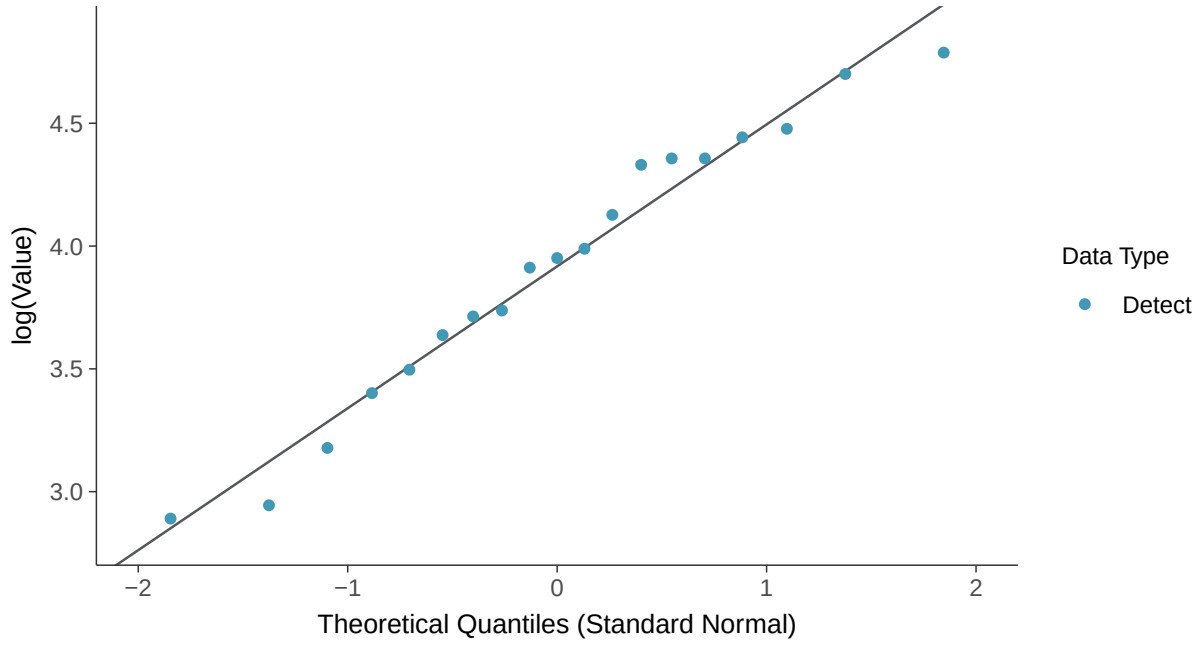
Normal Q-Q plot

Sulfate (as SO4), MW-20 (mg/L)



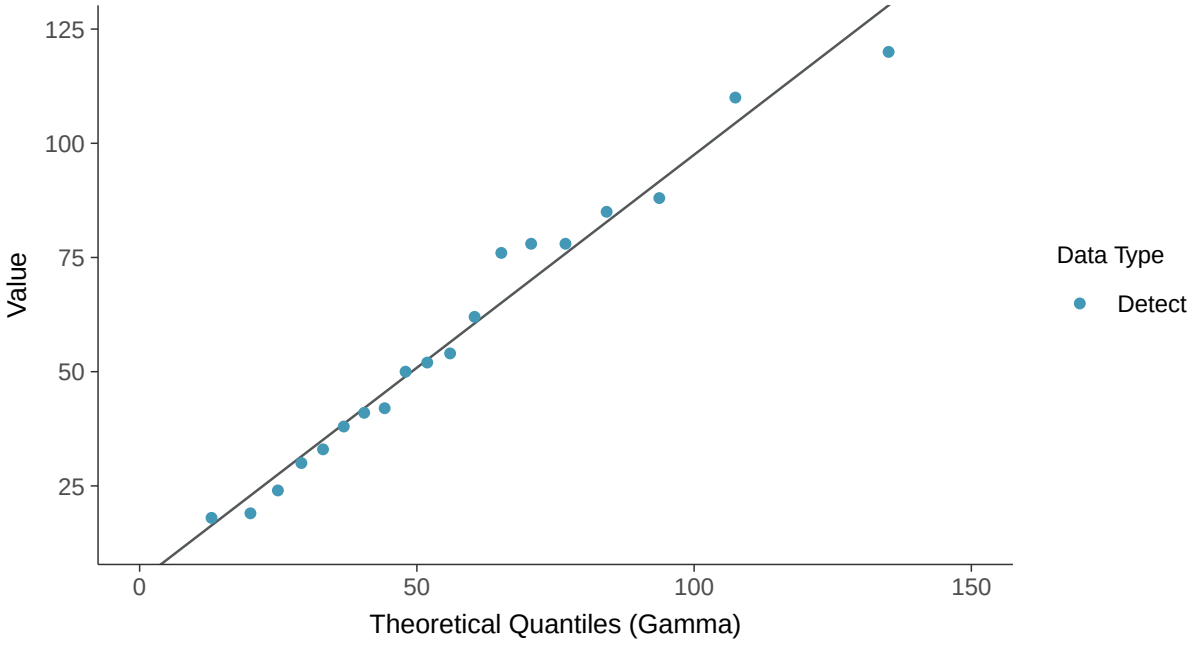
Lognormal Q-Q plot

Sulfate (as SO4), MW-20 (mg/L)



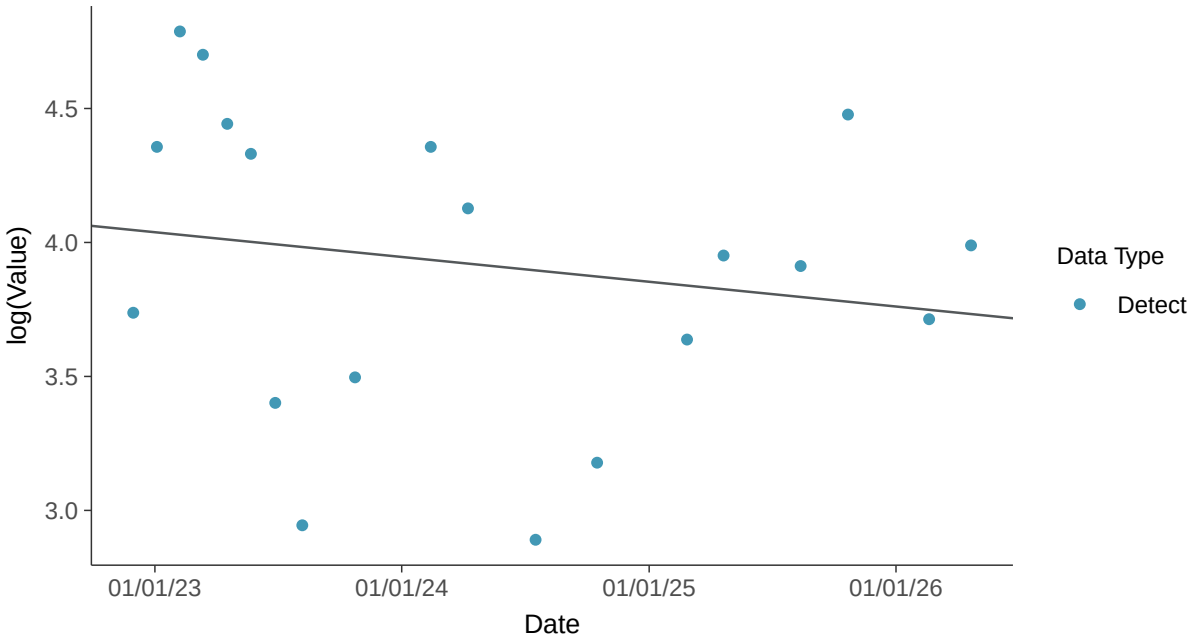
Gamma Q-Q plot

Sulfate (as SO4), MW-20 (mg/L)



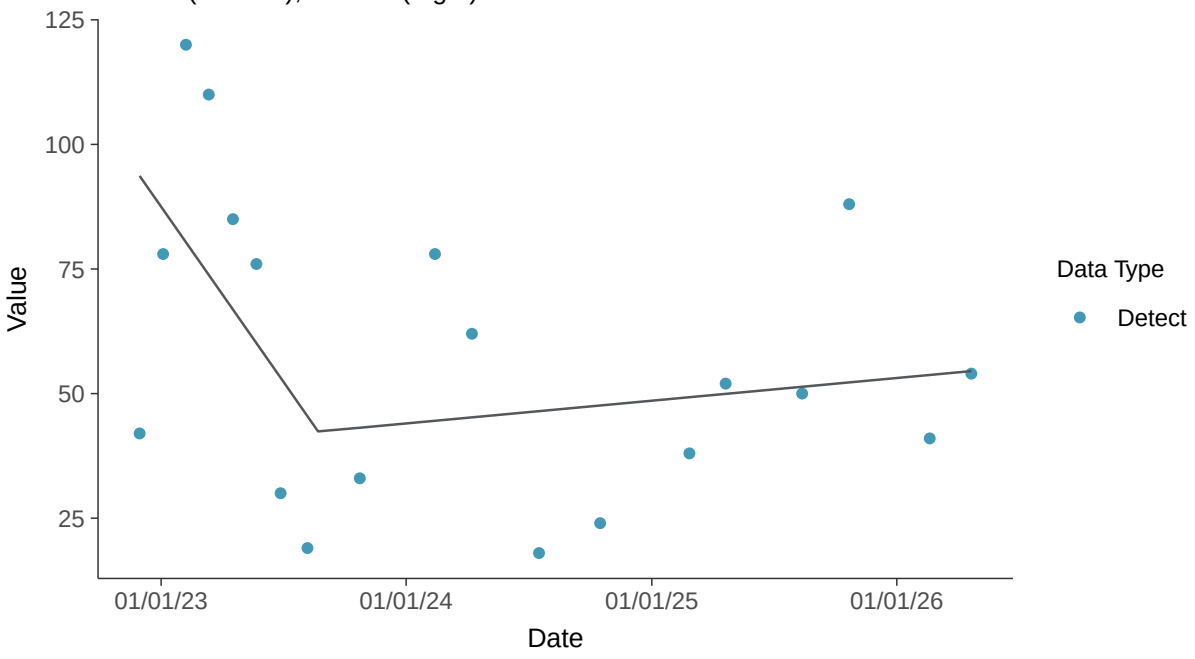
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-20 (mg/L)



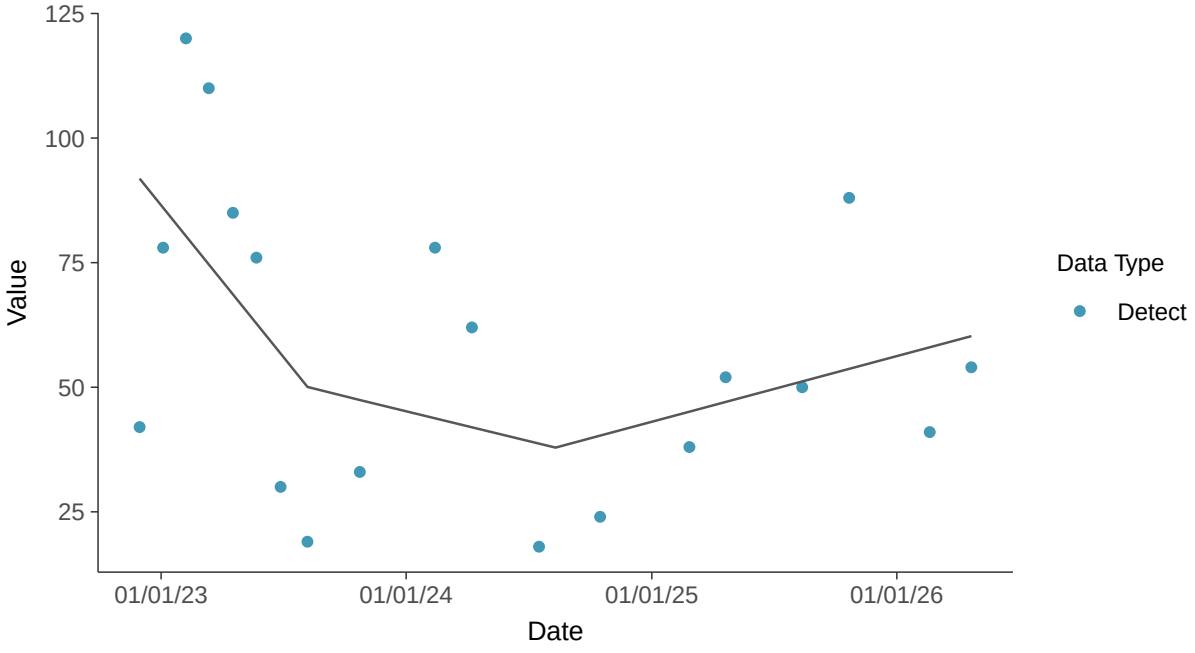
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-20 (mg/L)

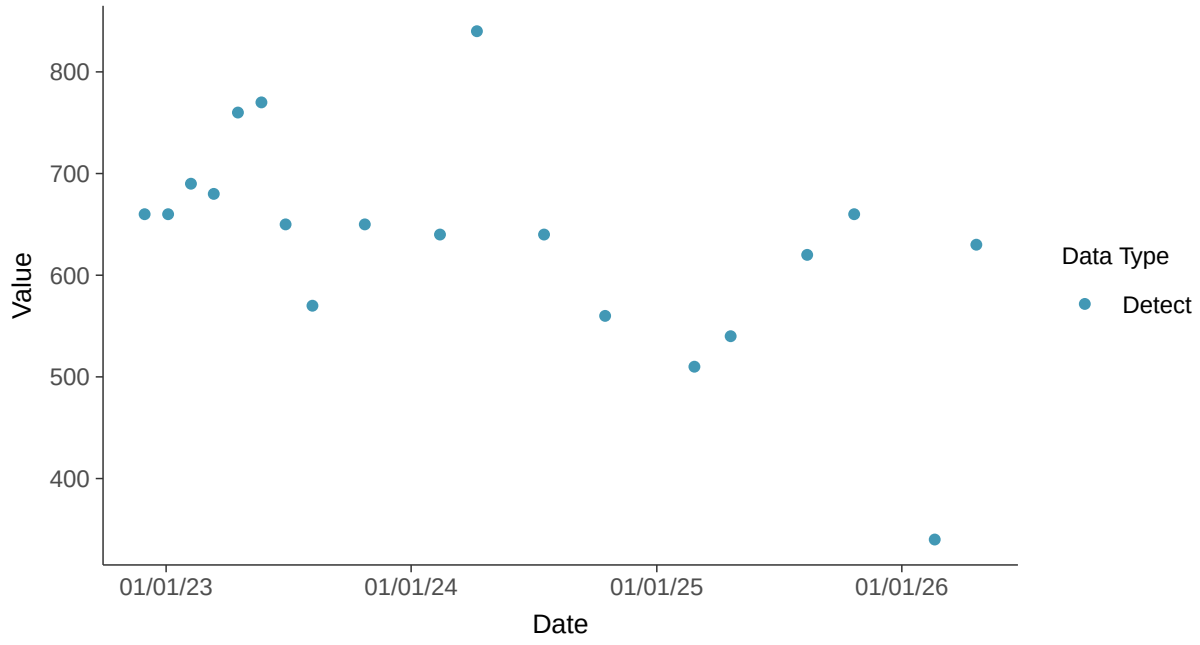


Appendix III: Total Dissolved Solids, MW-20

ID: 30_1_3_126

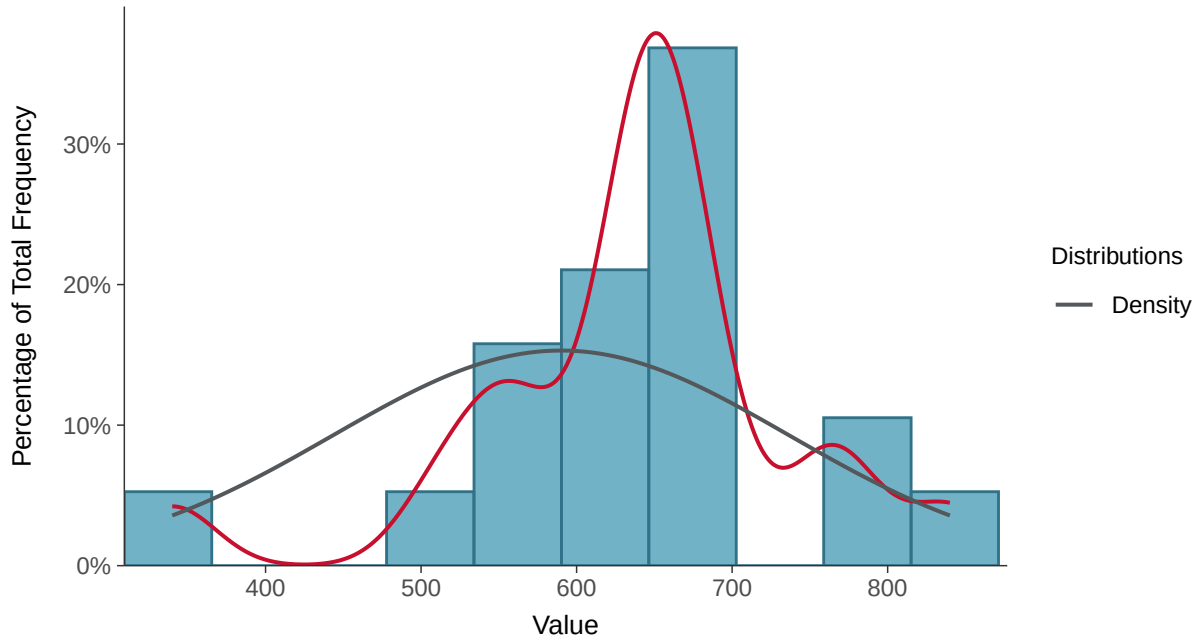
Scatter Plot

Total Dissolved Solids, MW-20 (mg/L)



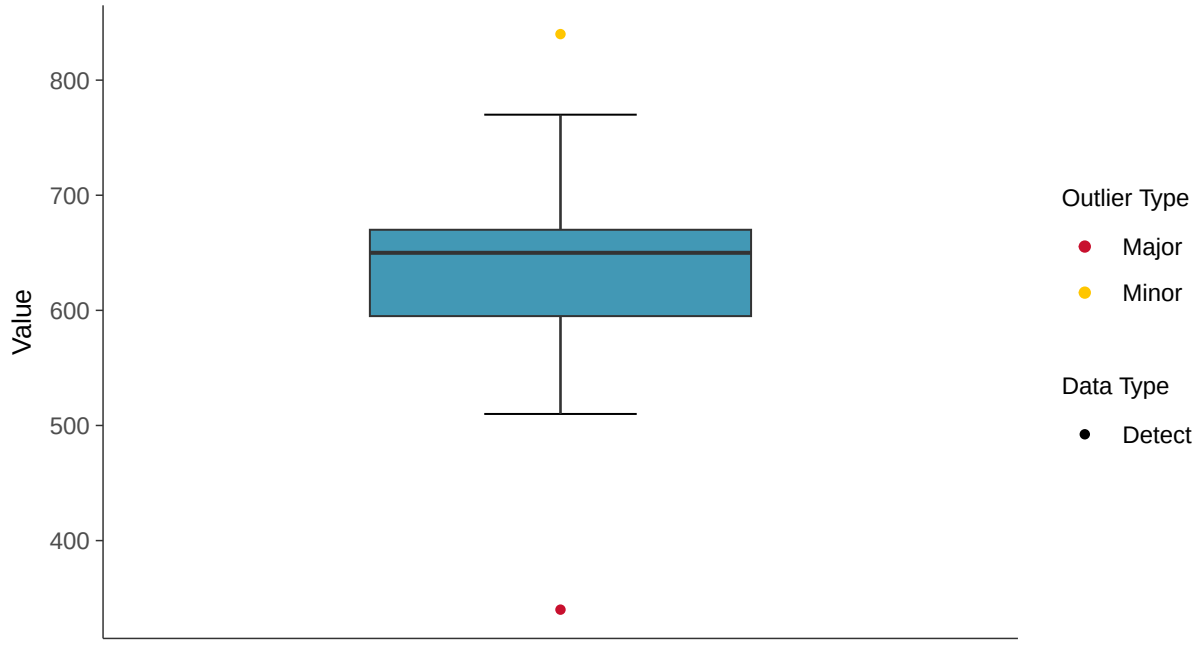
Histogram

Total Dissolved Solids, MW-20 (mg/L)



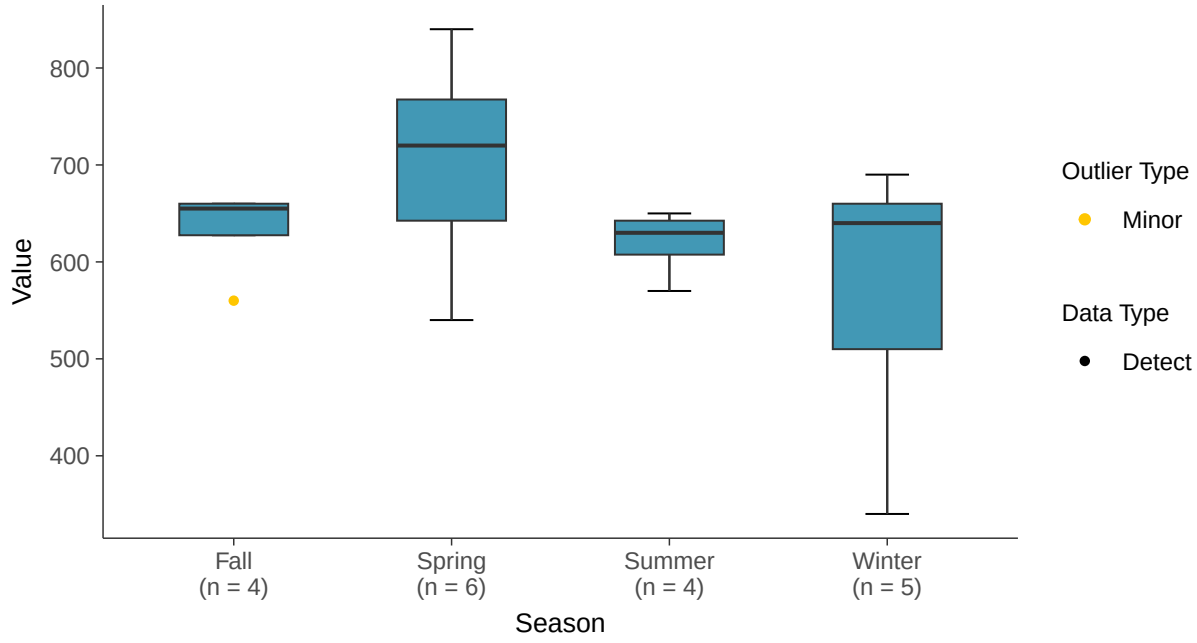
Boxplot

Total Dissolved Solids, MW-20 (mg/L)



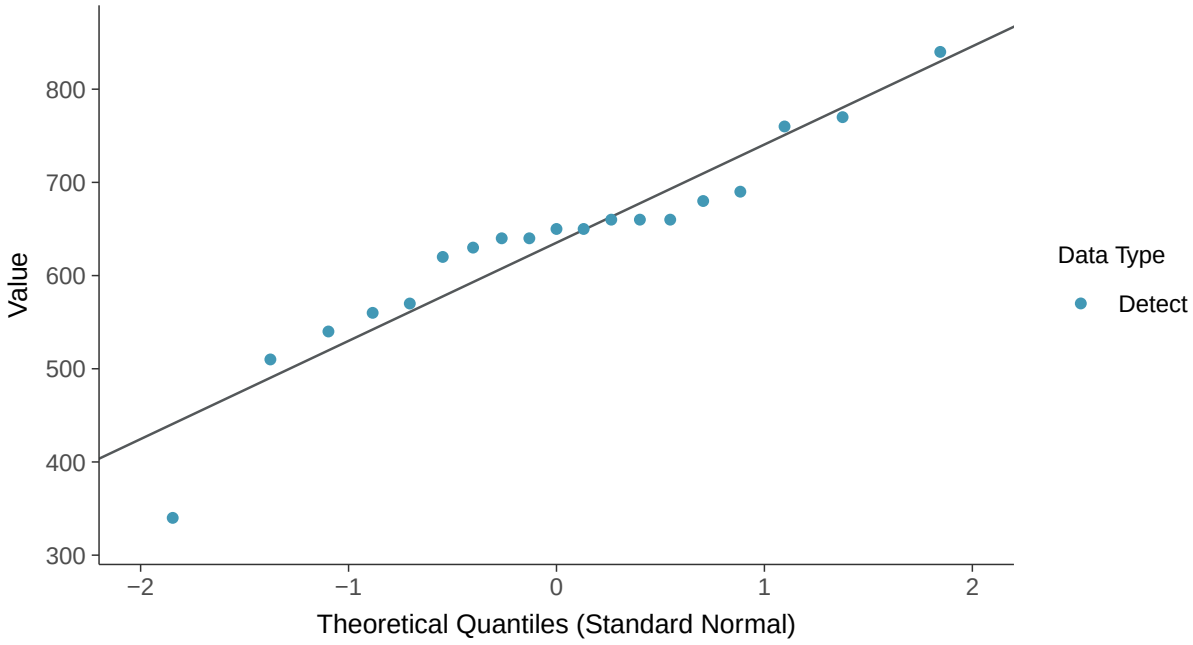
Boxplot by Season

Total Dissolved Solids, MW-20 (mg/L)



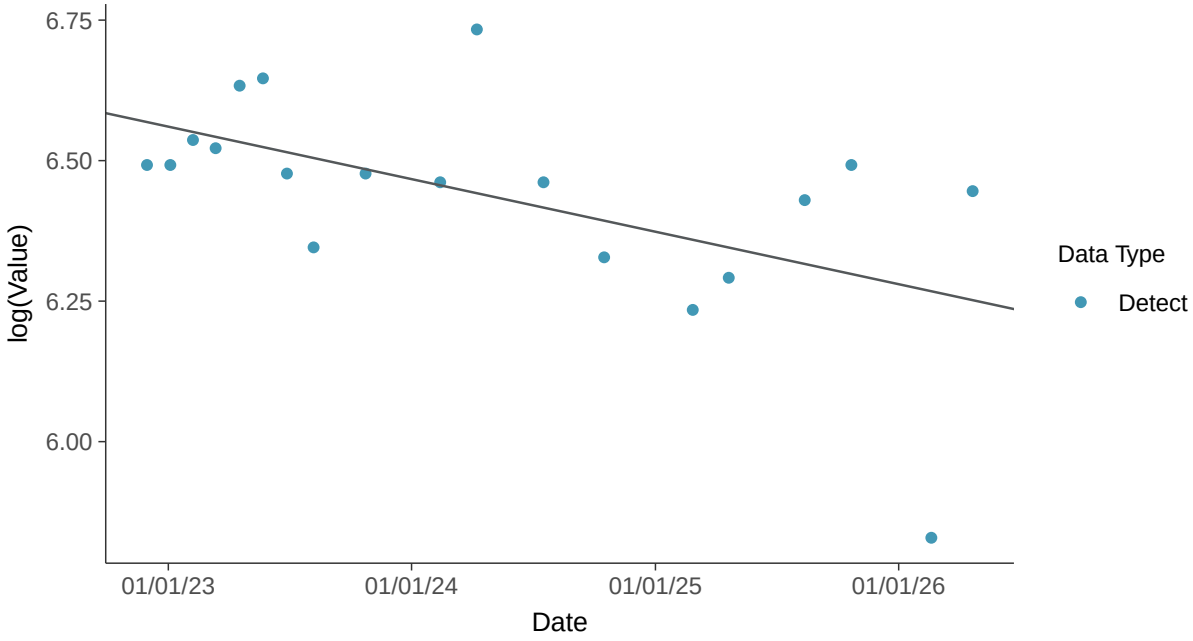
Normal Q-Q plot

Total Dissolved Solids, MW-20 (mg/L)



Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-20 (mg/L)

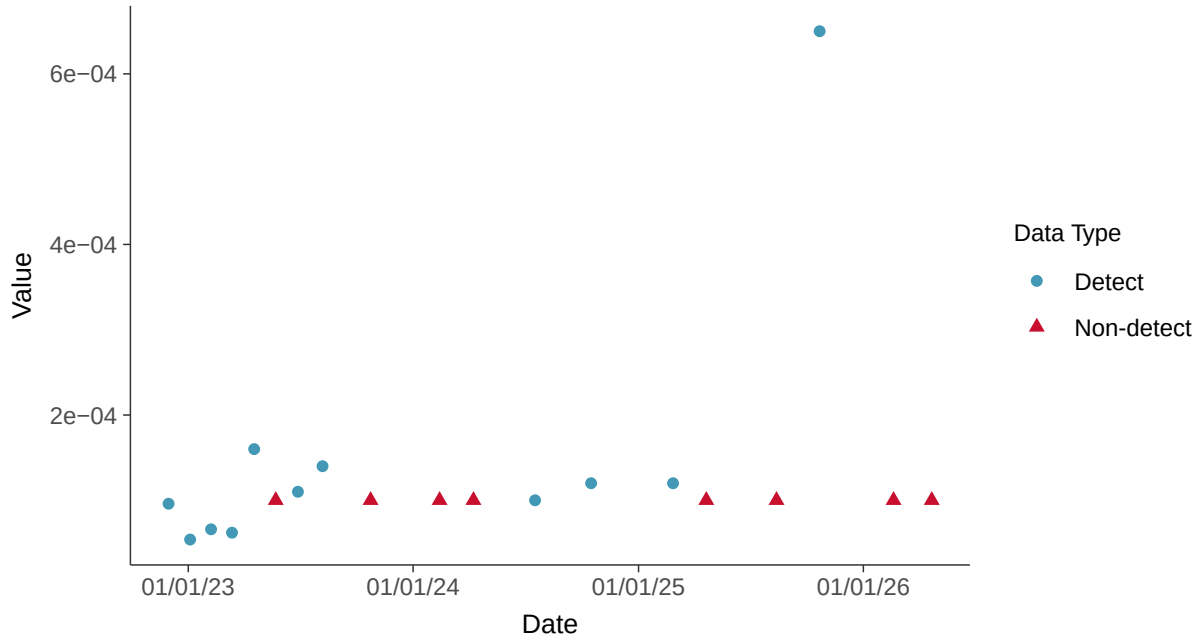


Appendix IV: Antimony, MW-20

ID: 30_1_4_101

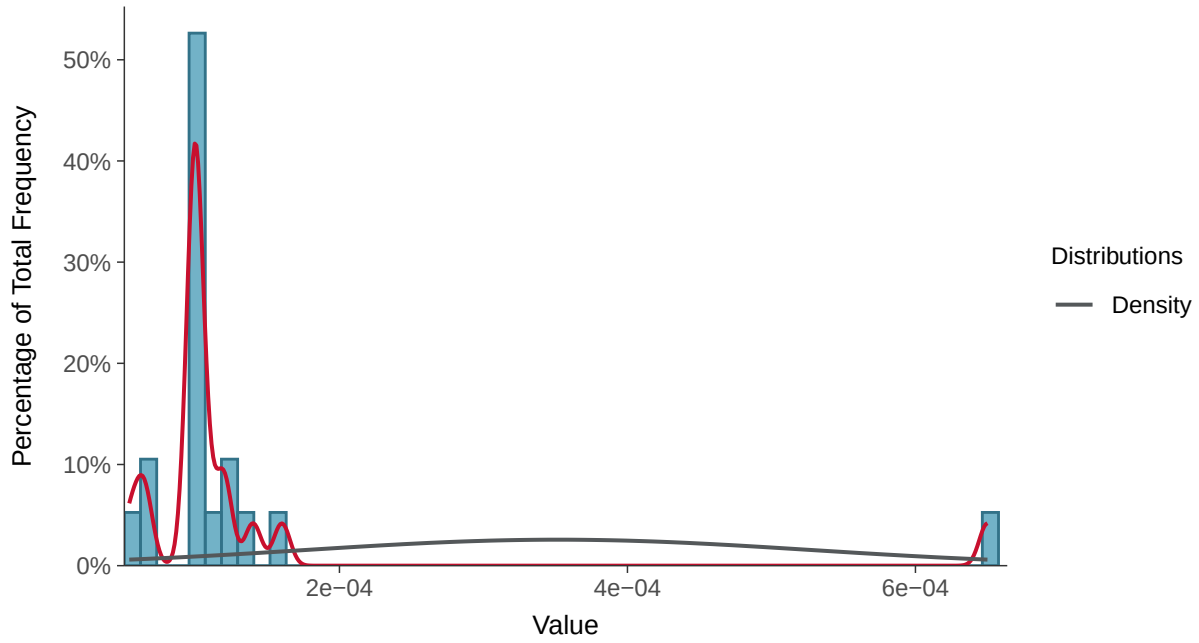
Scatter Plot

Antimony, MW-20 (mg/L)



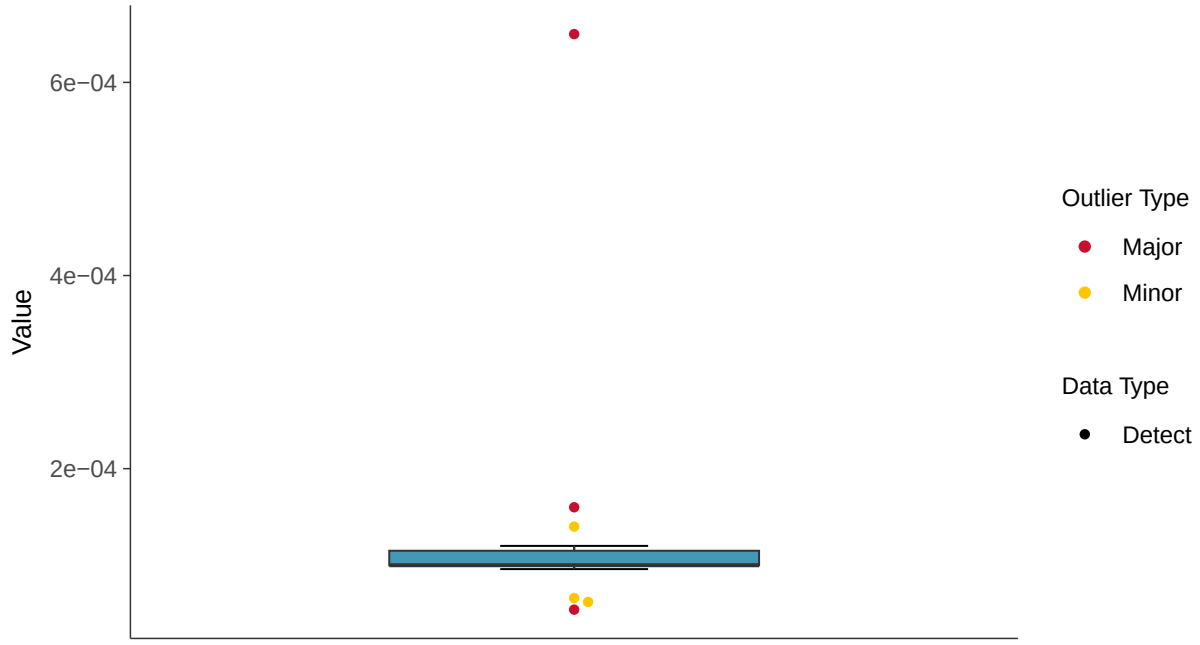
Histogram

Antimony, MW-20 (mg/L)



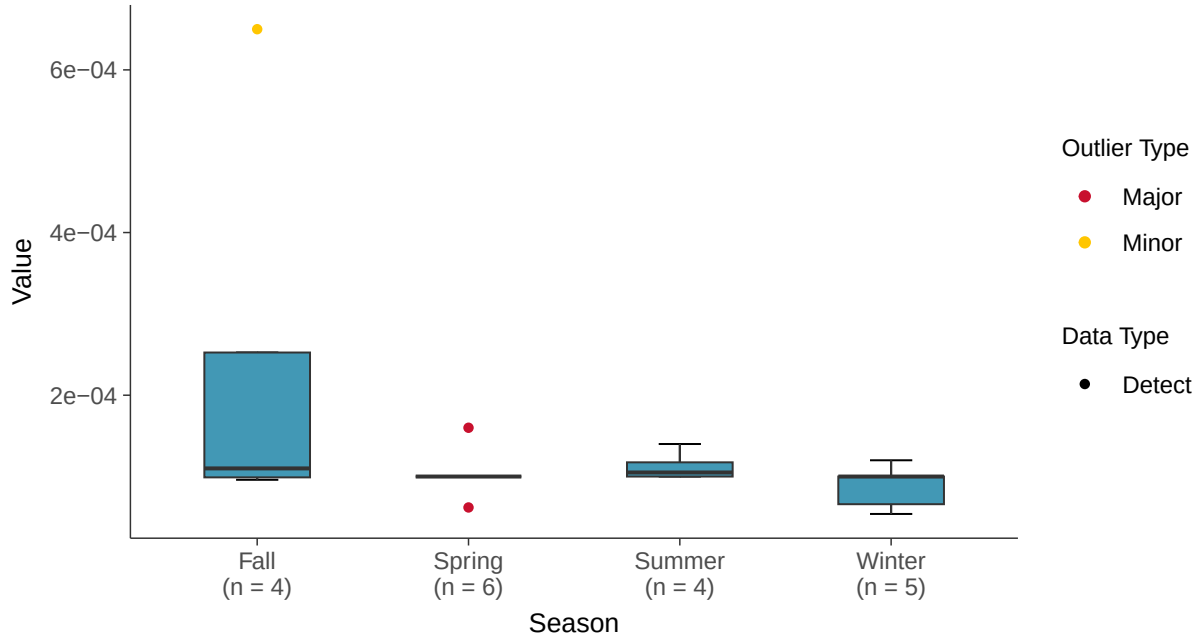
Boxplot

Antimony, MW-20 (mg/L)



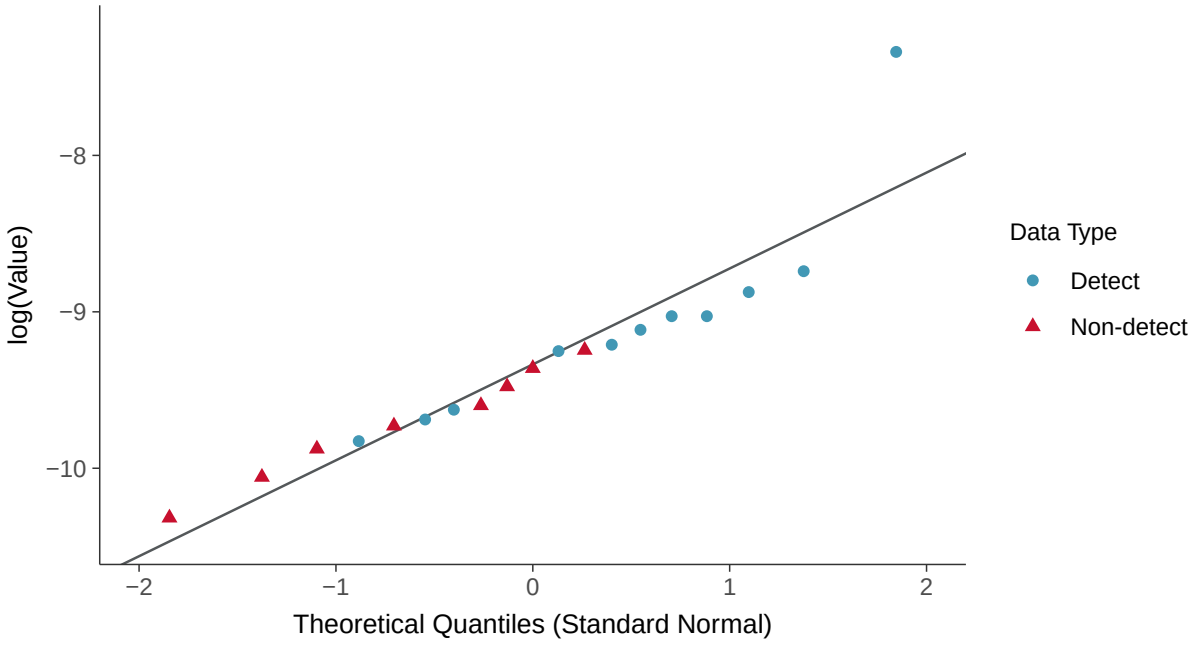
Boxplot by Season

Antimony, MW-20 (mg/L)



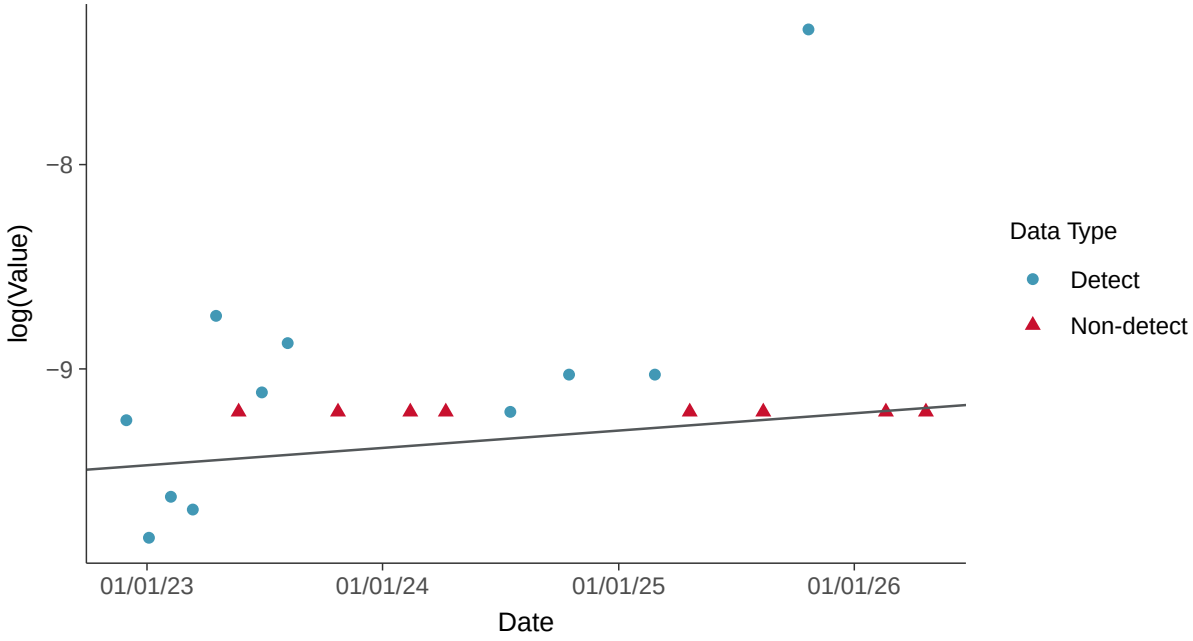
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-20 (mg/L)



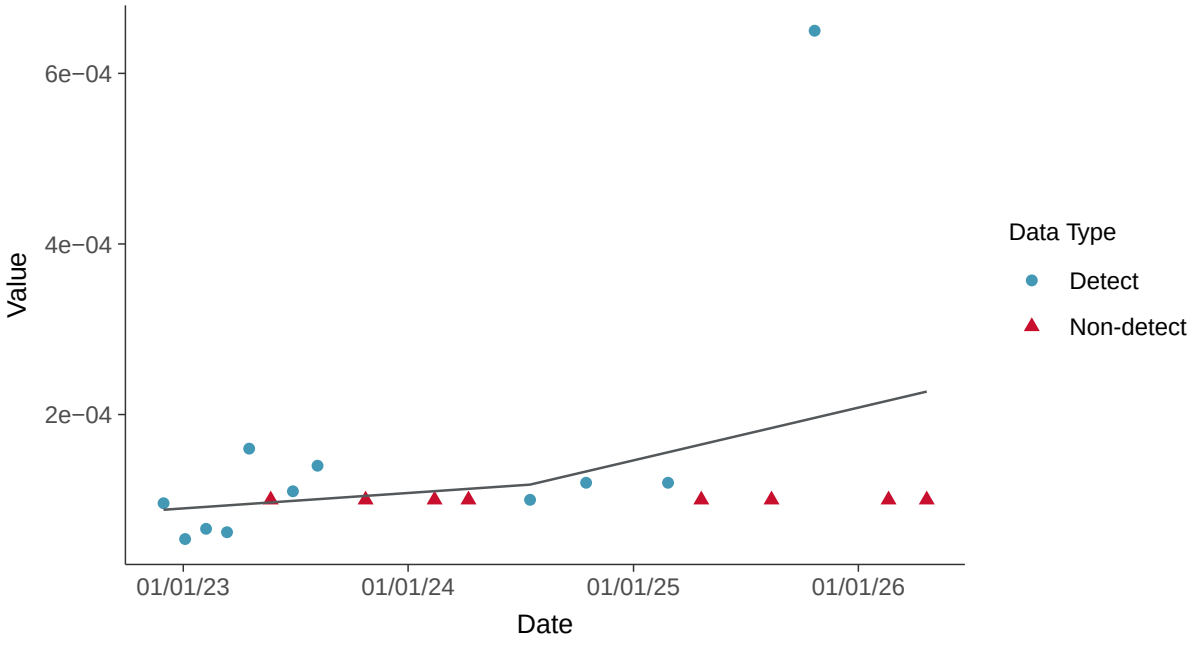
Trend Regression: Lognormal MLE

Antimony, MW-20 (mg/L)



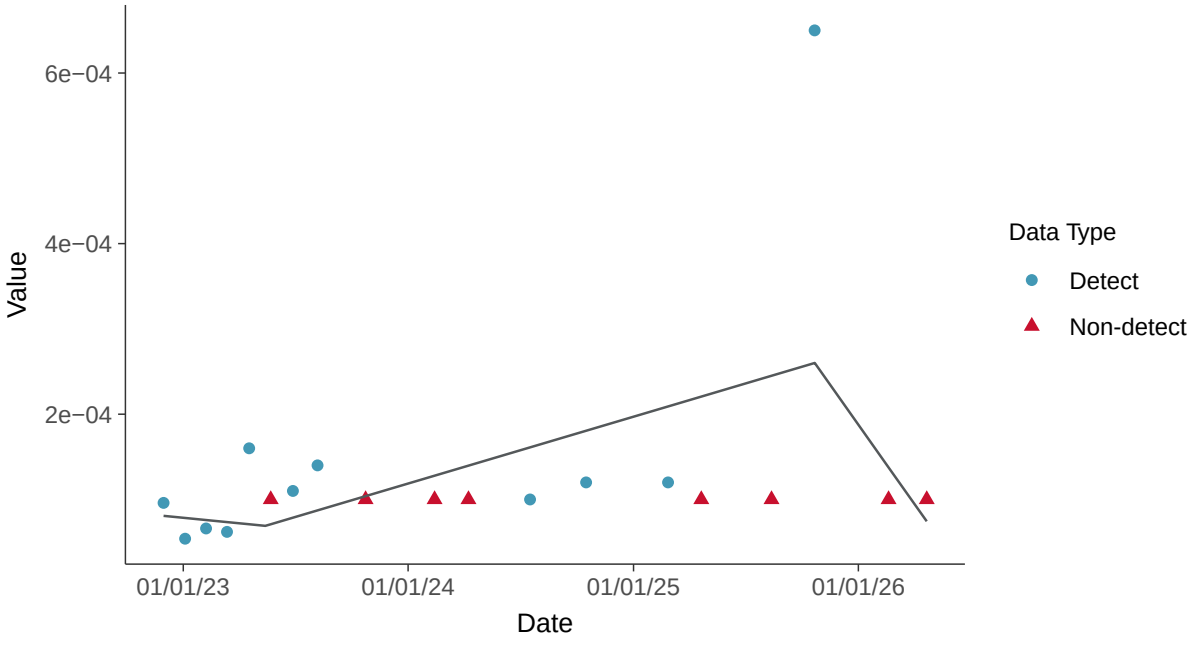
Trend Regression: Piecewise Linear-Linear

Antimony, MW-20 (mg/L)



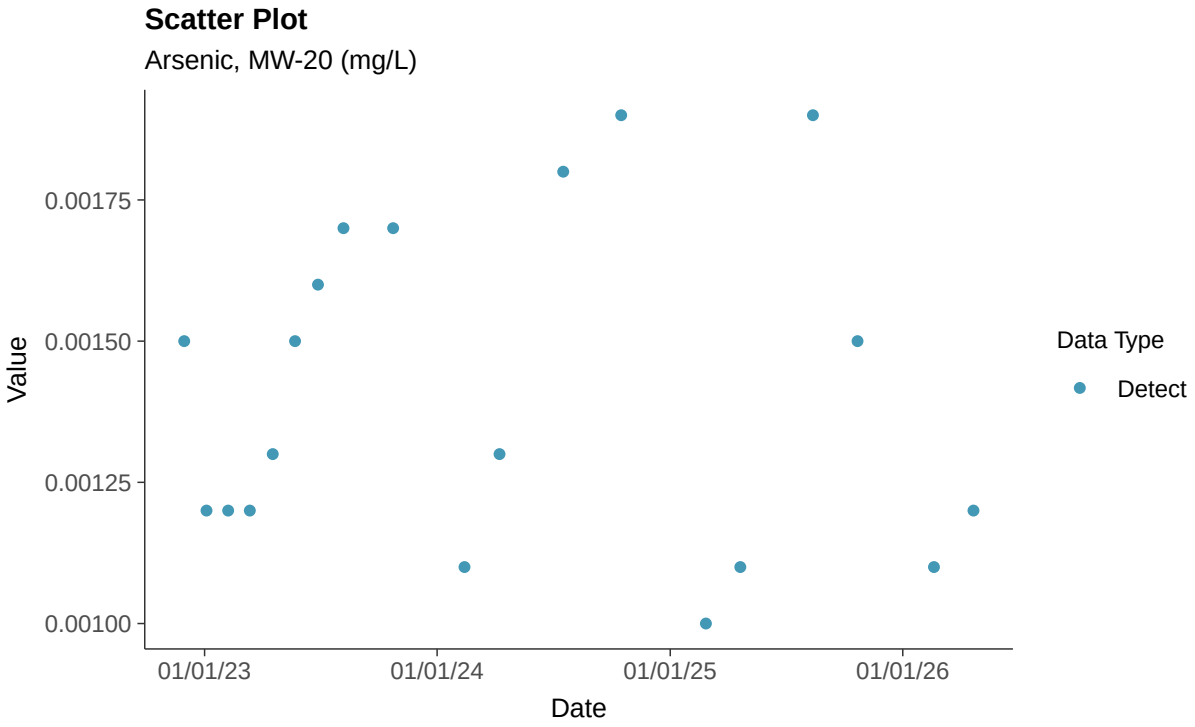
Trend Regression: Piecewise Linear-Linear-Linear

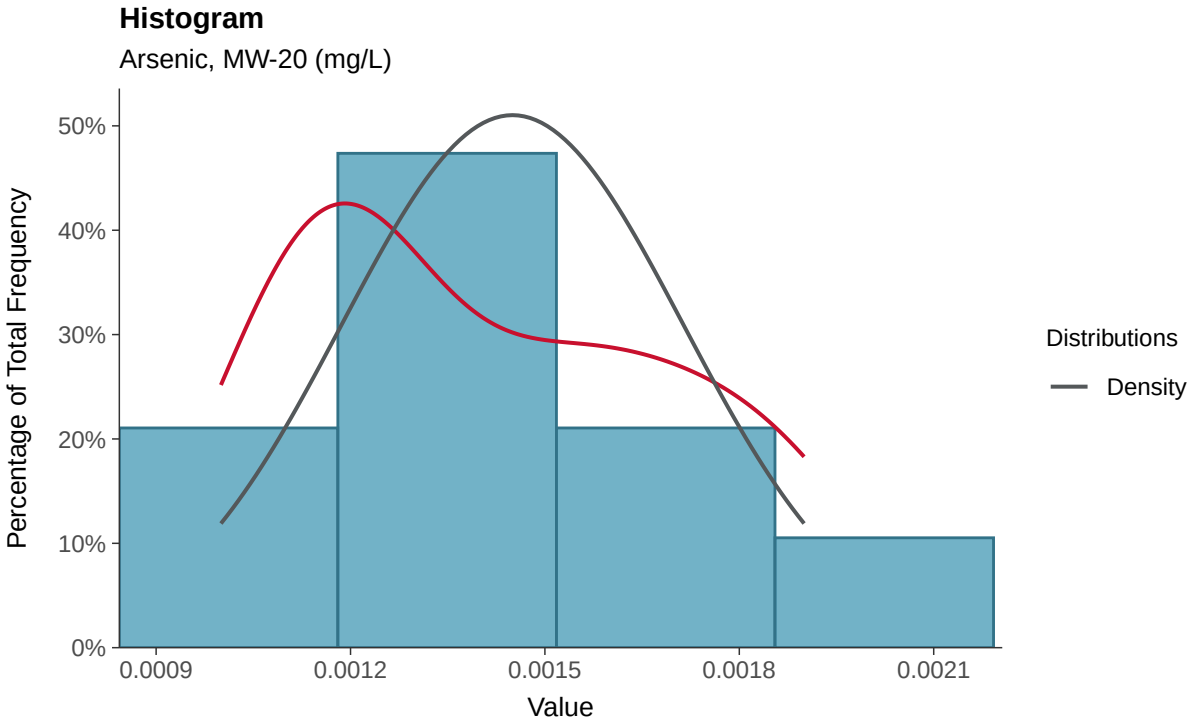
Antimony, MW-20 (mg/L)



Appendix IV: Arsenic, MW-20

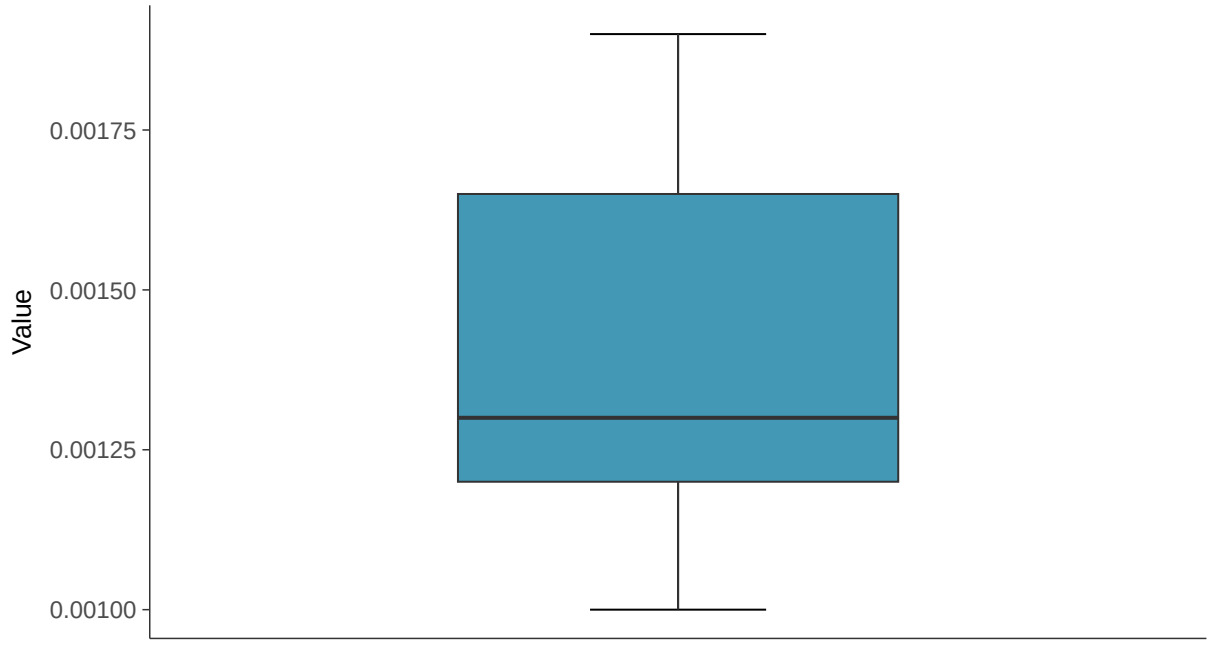
ID: 30_1_4_102





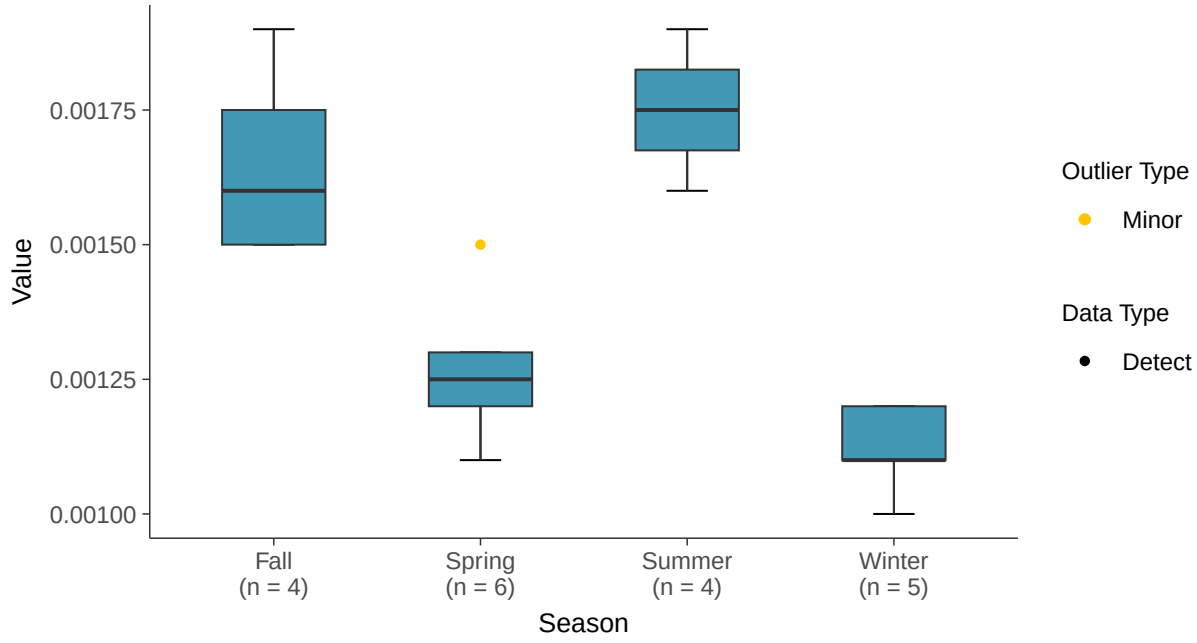
Boxplot

Arsenic, MW-20 (mg/L)



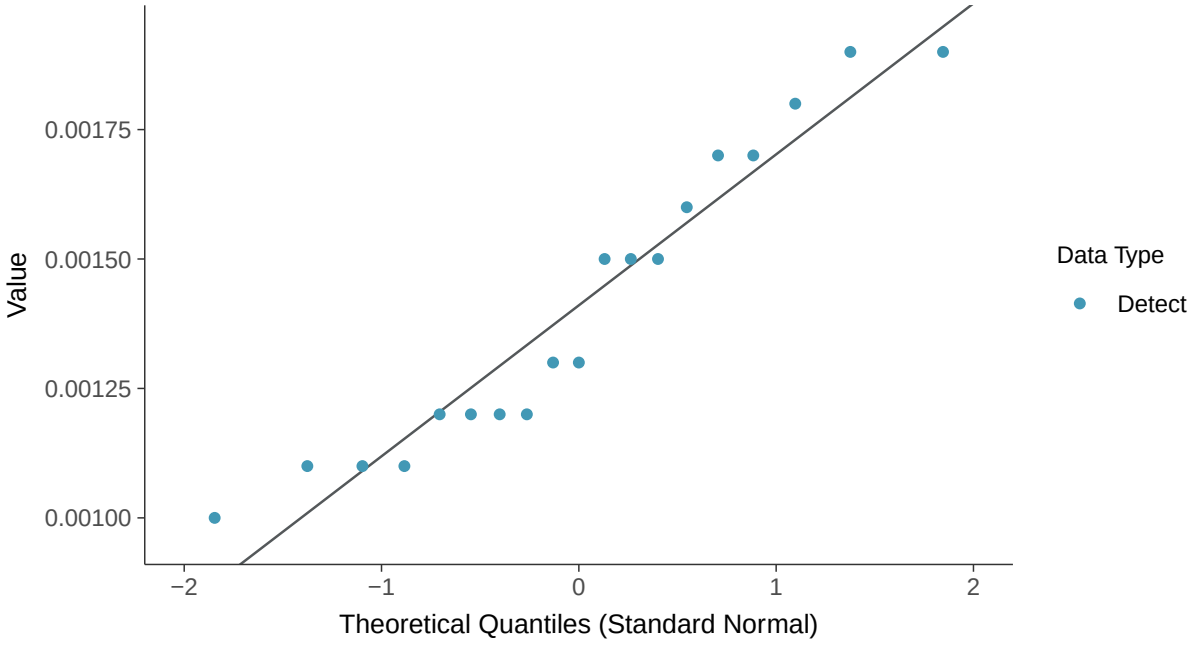
Boxplot by Season

Arsenic, MW-20 (mg/L)



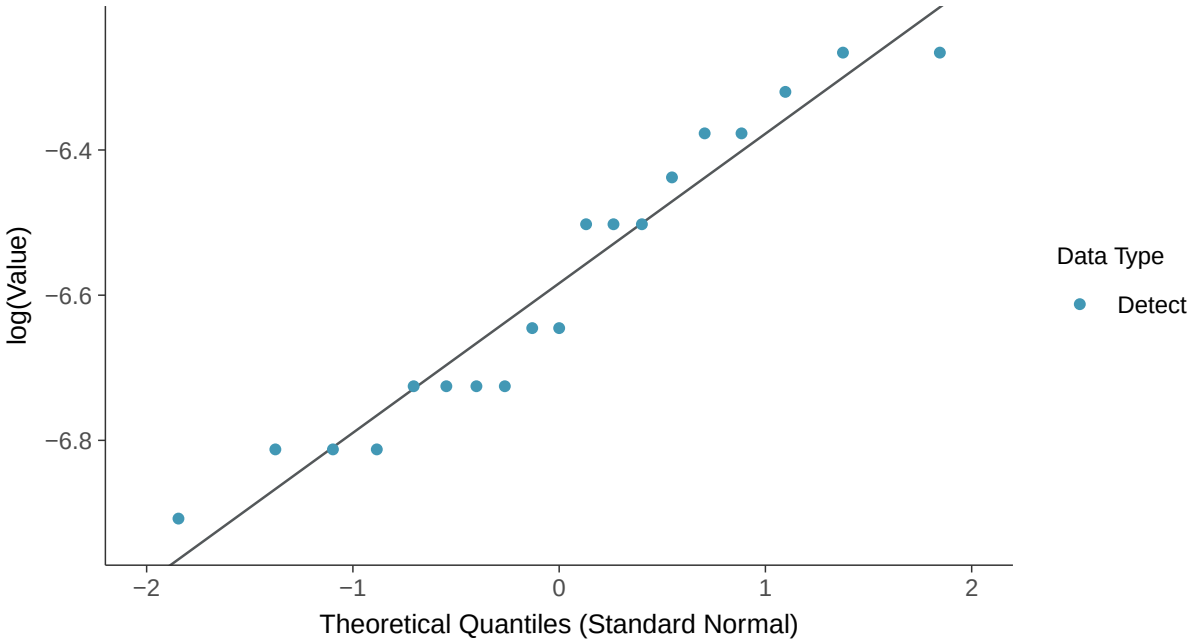
Normal Q-Q plot

Arsenic, MW-20 (mg/L)



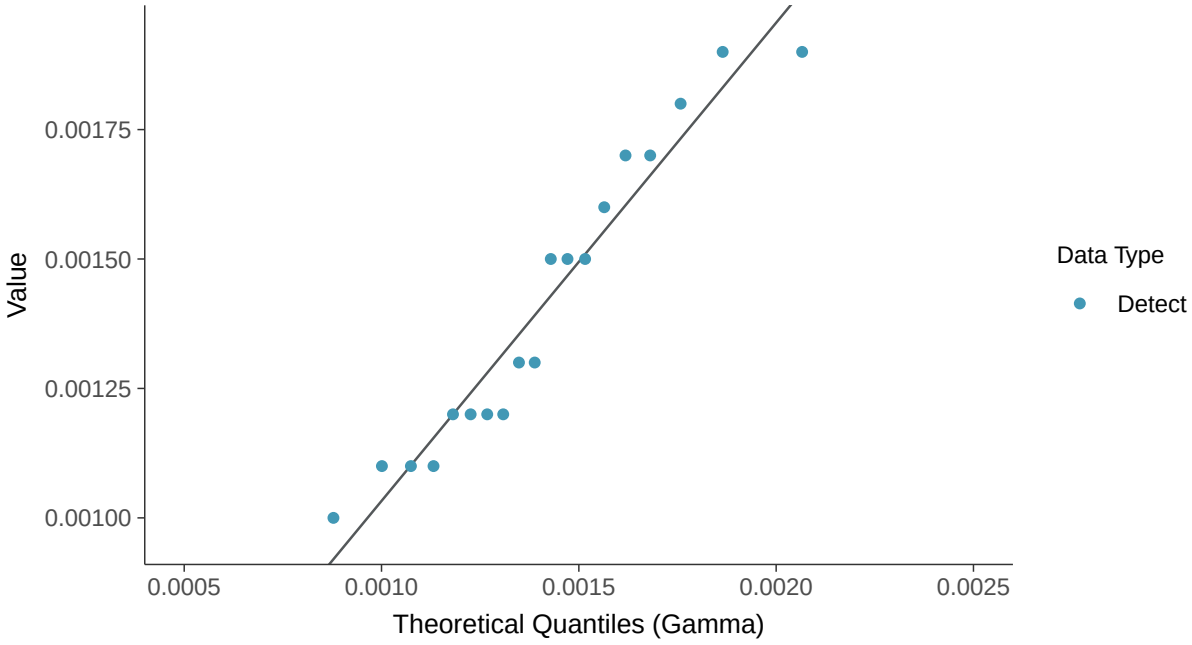
Lognormal Q-Q plot

Arsenic, MW-20 (mg/L)



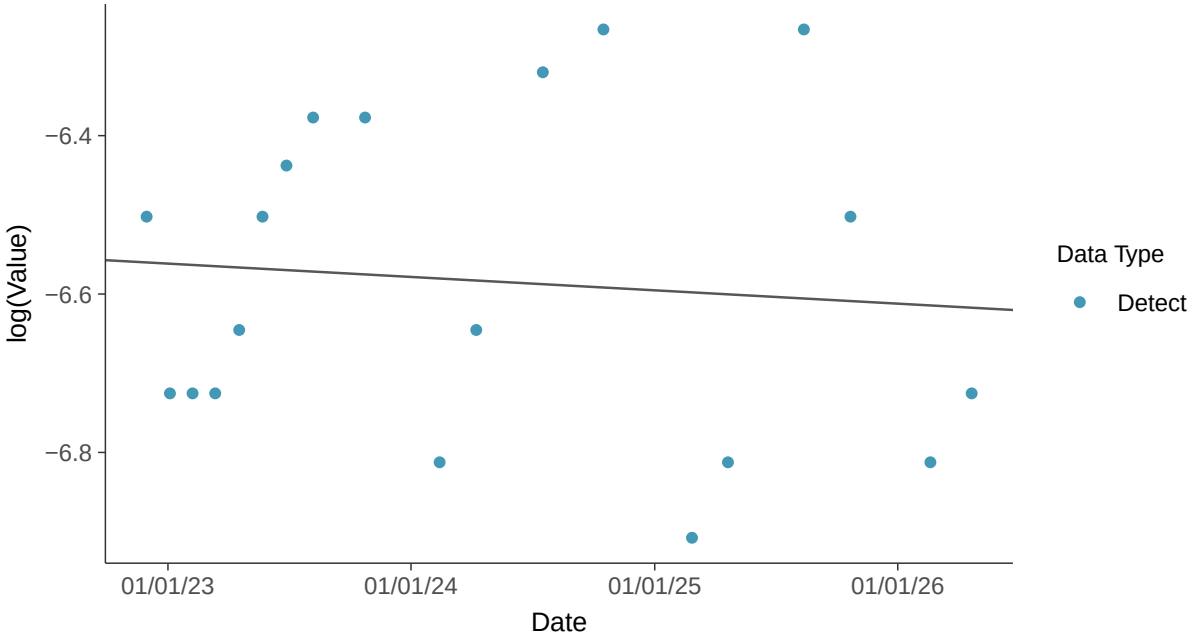
Gamma Q-Q plot

Arsenic, MW-20 (mg/L)



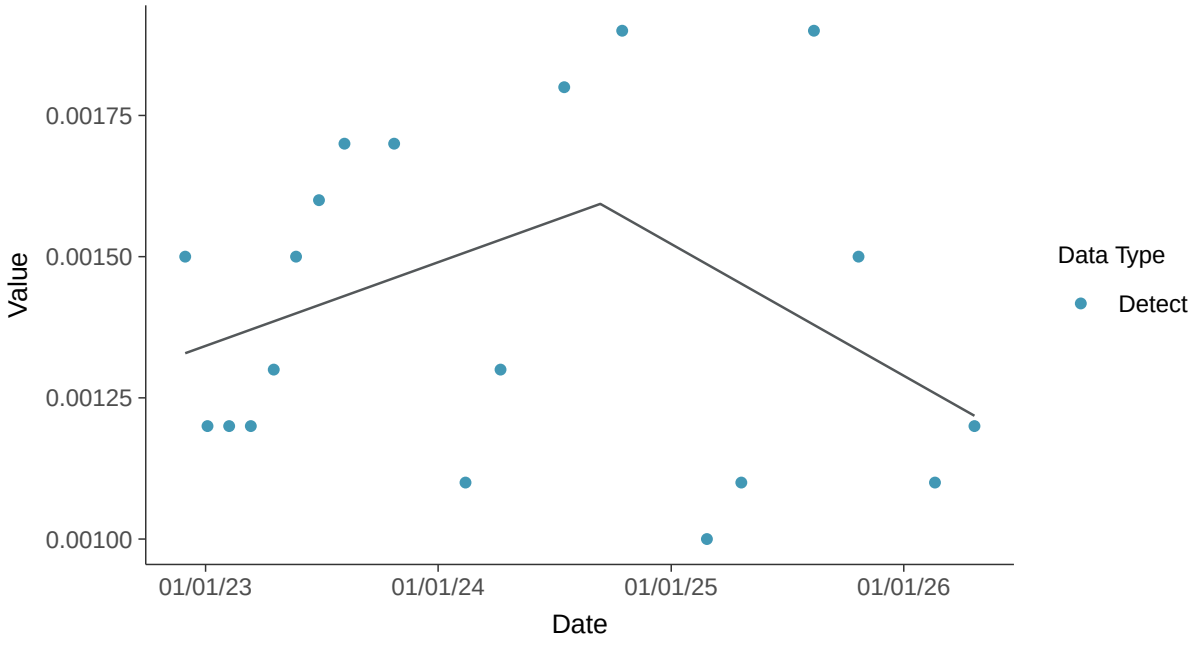
Trend Regression: Lognormal MLE

Arsenic, MW-20 (mg/L)



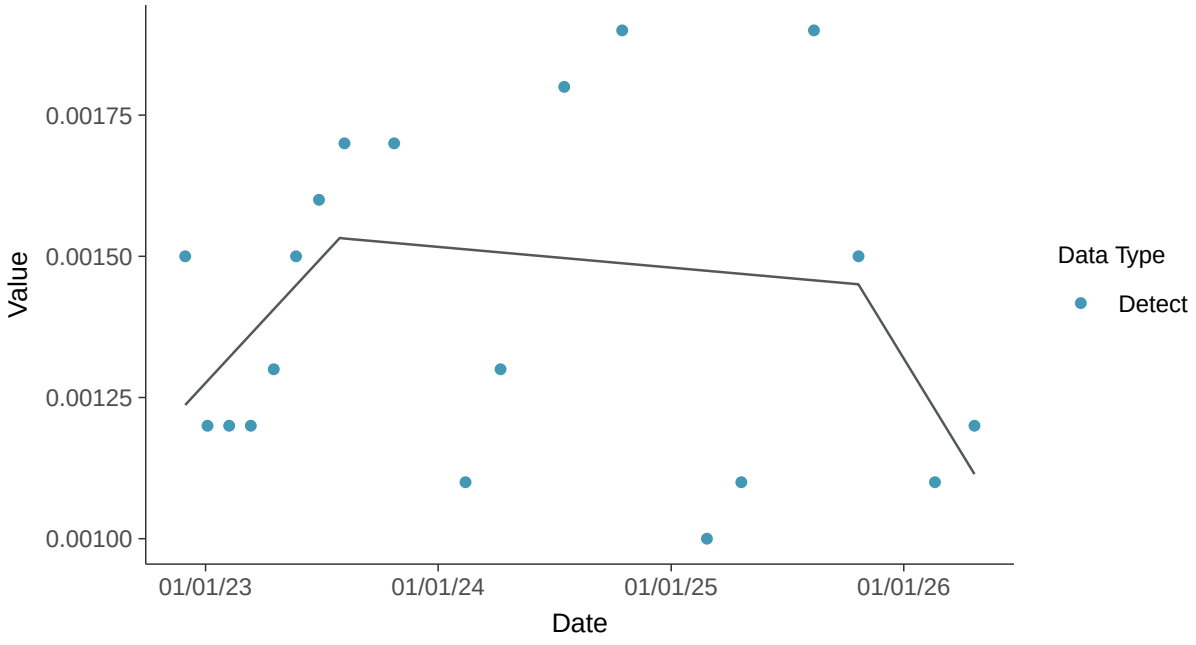
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-20 (mg/L)

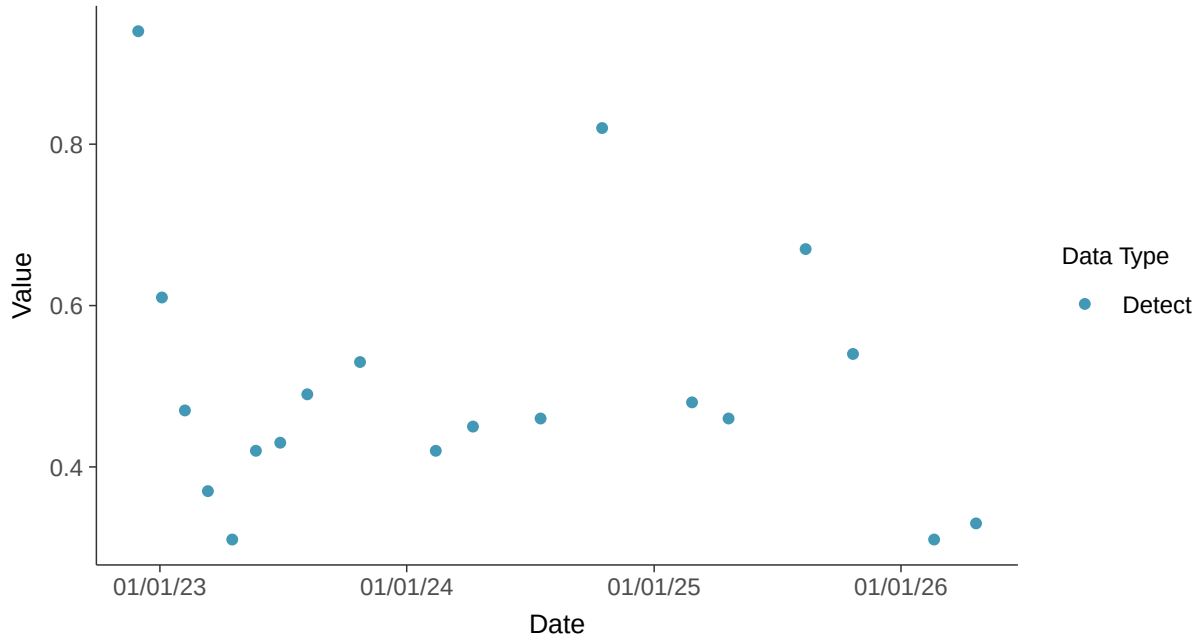


Appendix IV: Barium, MW-20

ID: 30_1_4_103

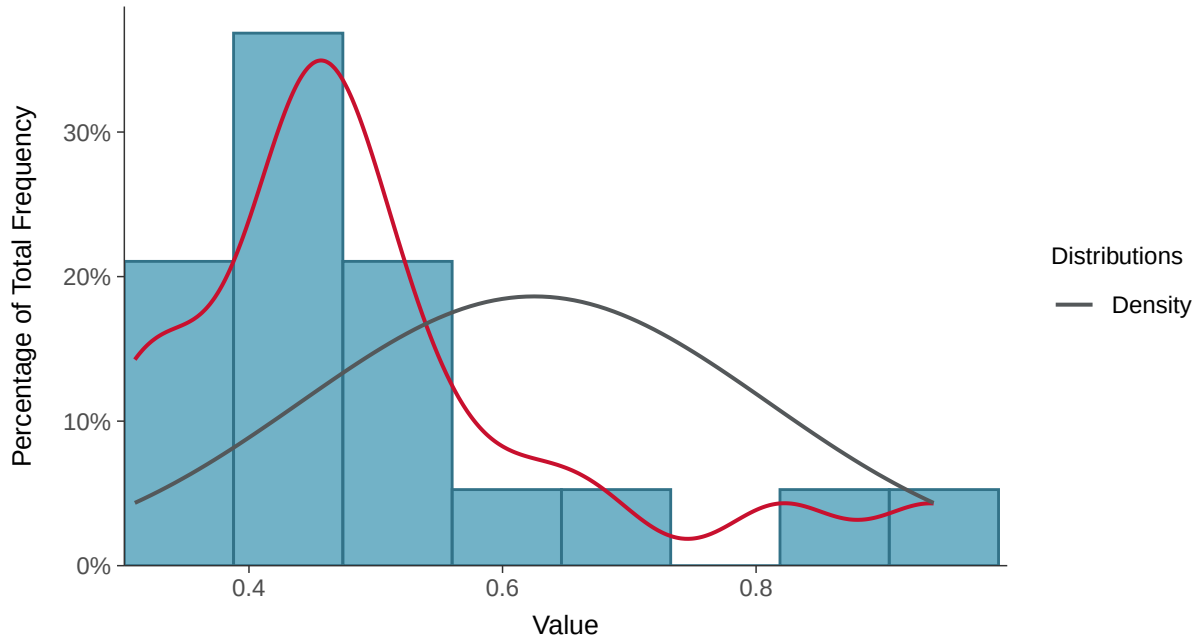
Scatter Plot

Barium, MW-20 (mg/L)



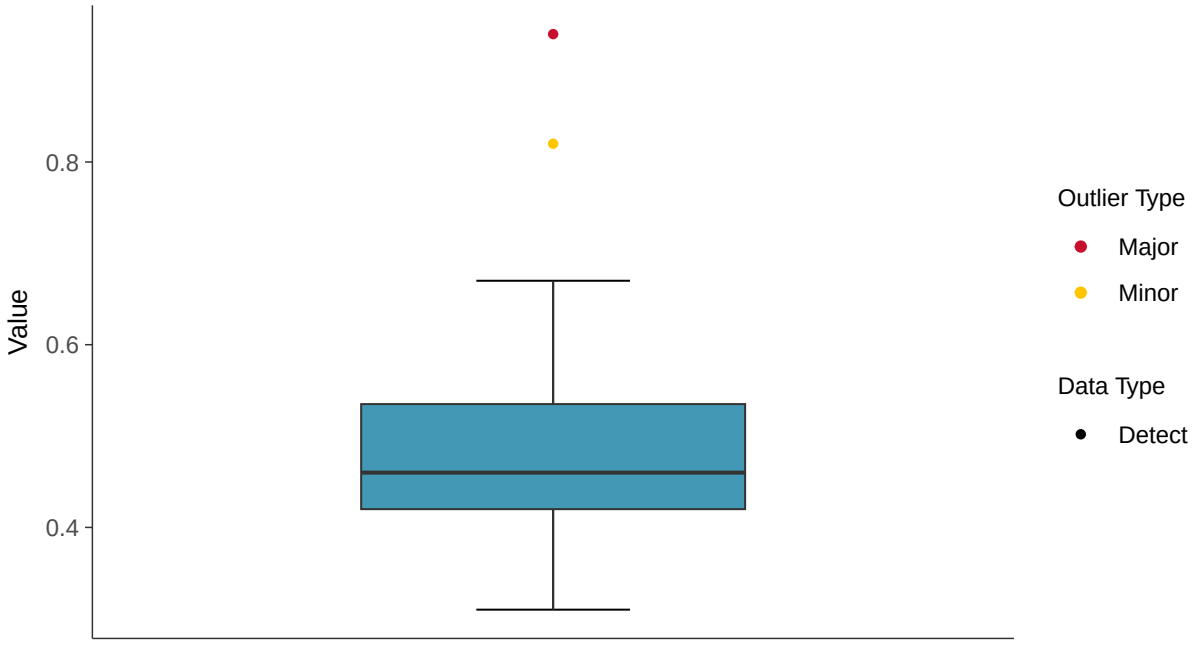
Histogram

Barium, MW-20 (mg/L)



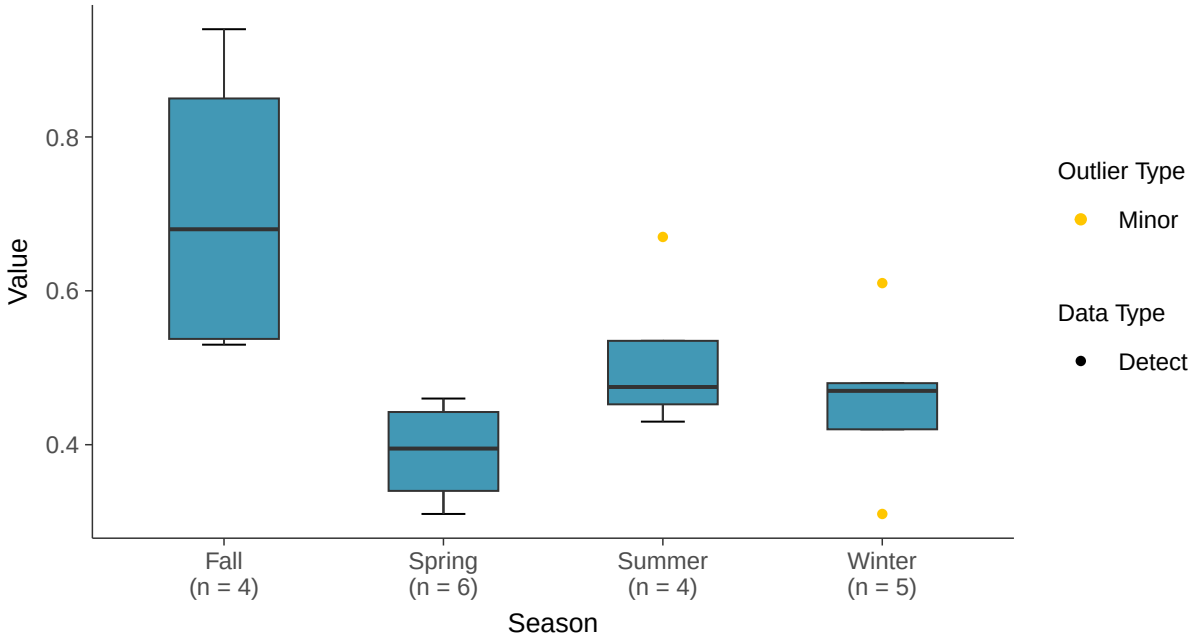
Boxplot

Barium, MW-20 (mg/L)



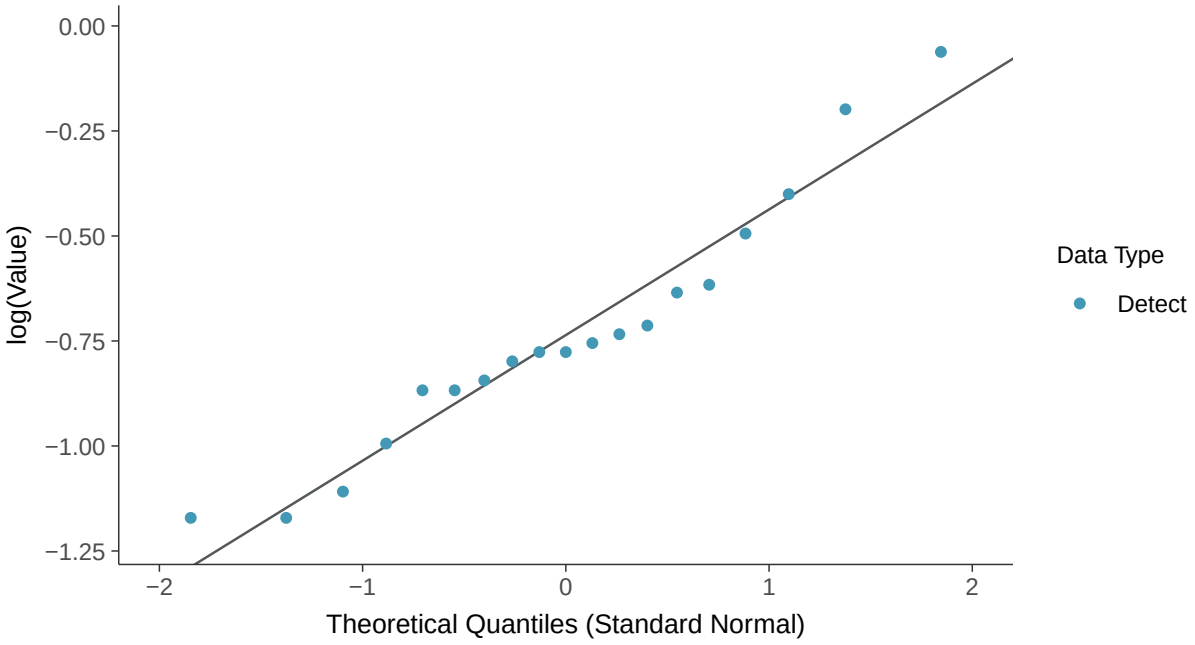
Boxplot by Season

Barium, MW-20 (mg/L)



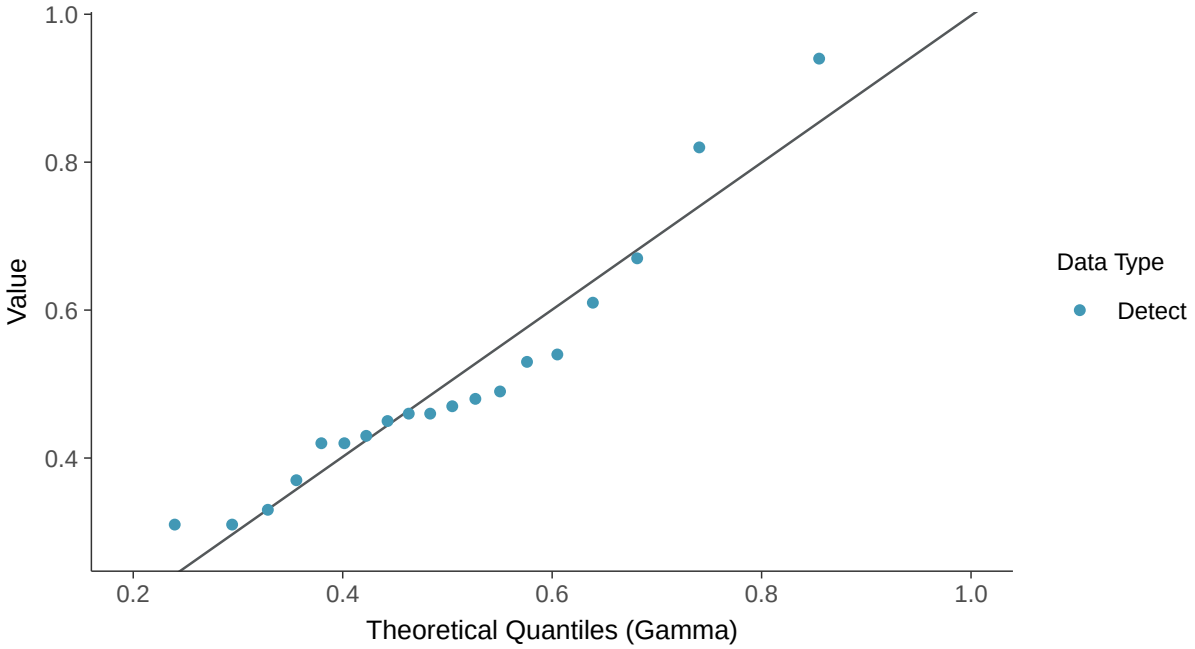
Lognormal Q-Q plot

Barium, MW-20 (mg/L)



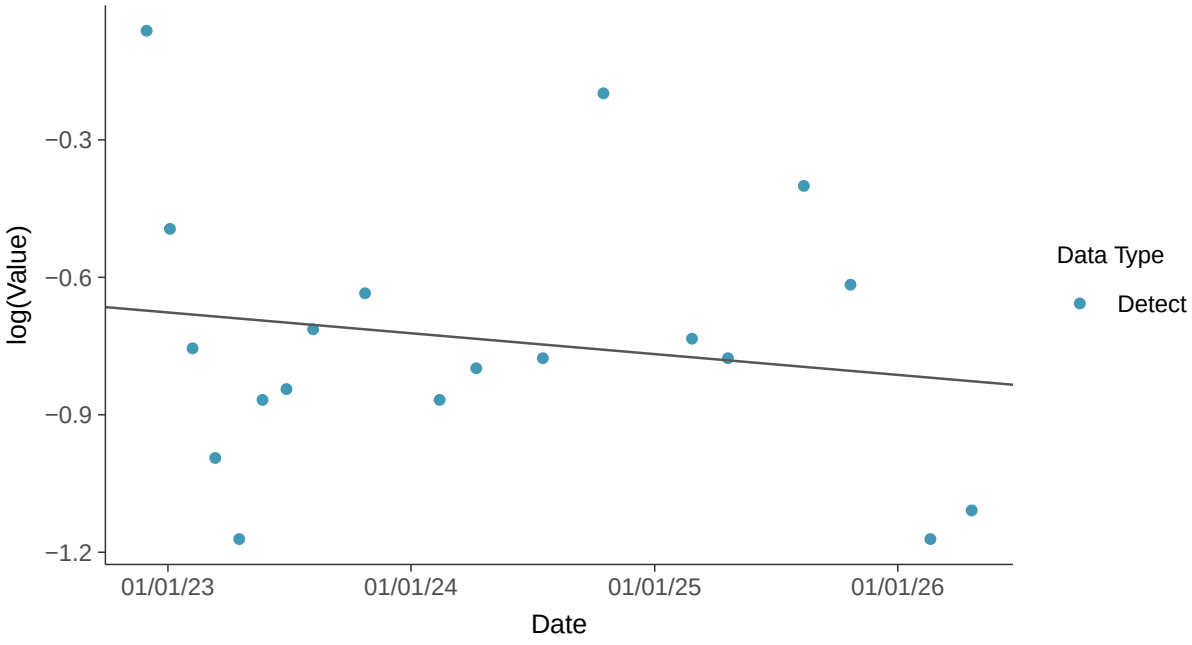
Gamma Q-Q plot

Barium, MW-20 (mg/L)



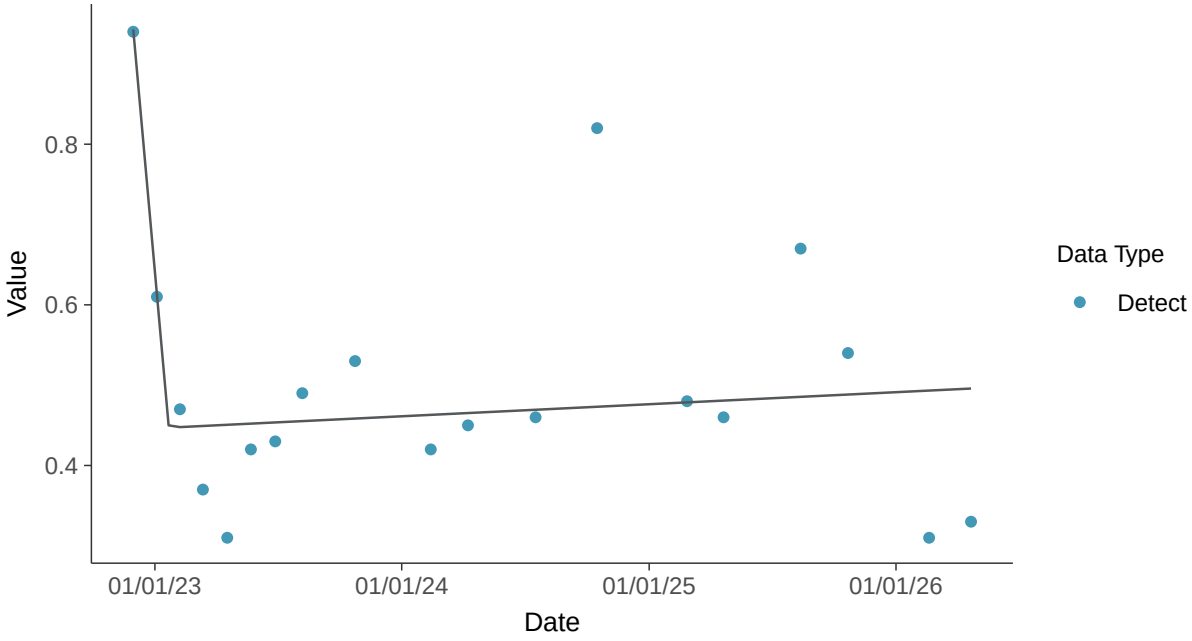
Trend Regression: Lognormal MLE

Barium, MW-20 (mg/L)



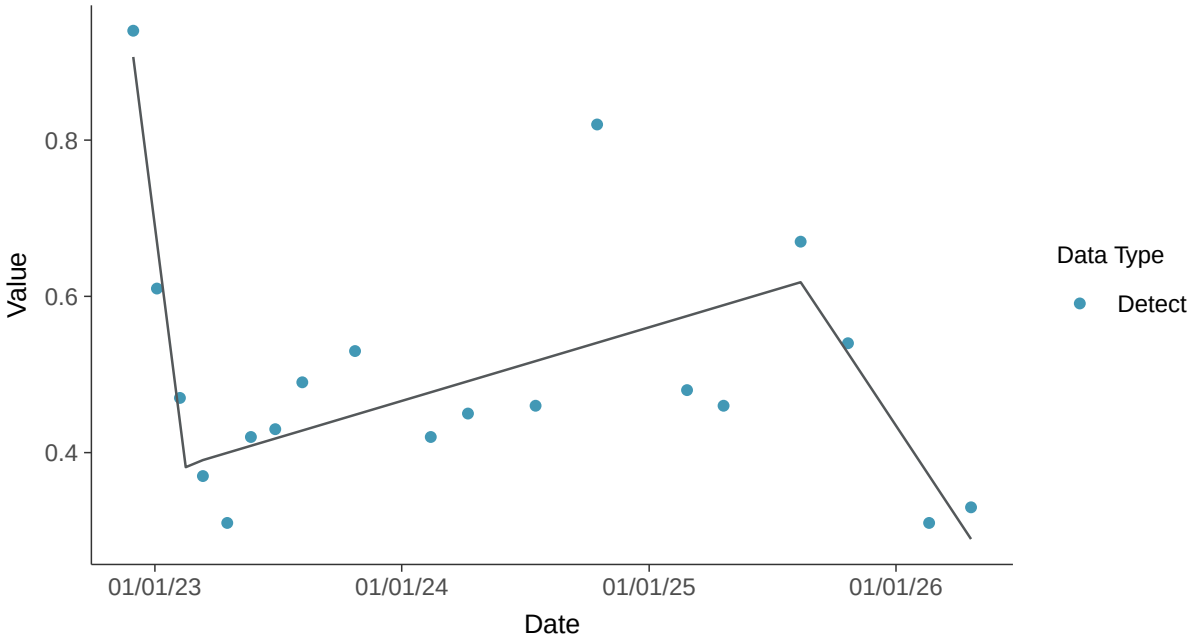
Trend Regression: Piecewise Linear-Linear

Barium, MW-20 (mg/L)



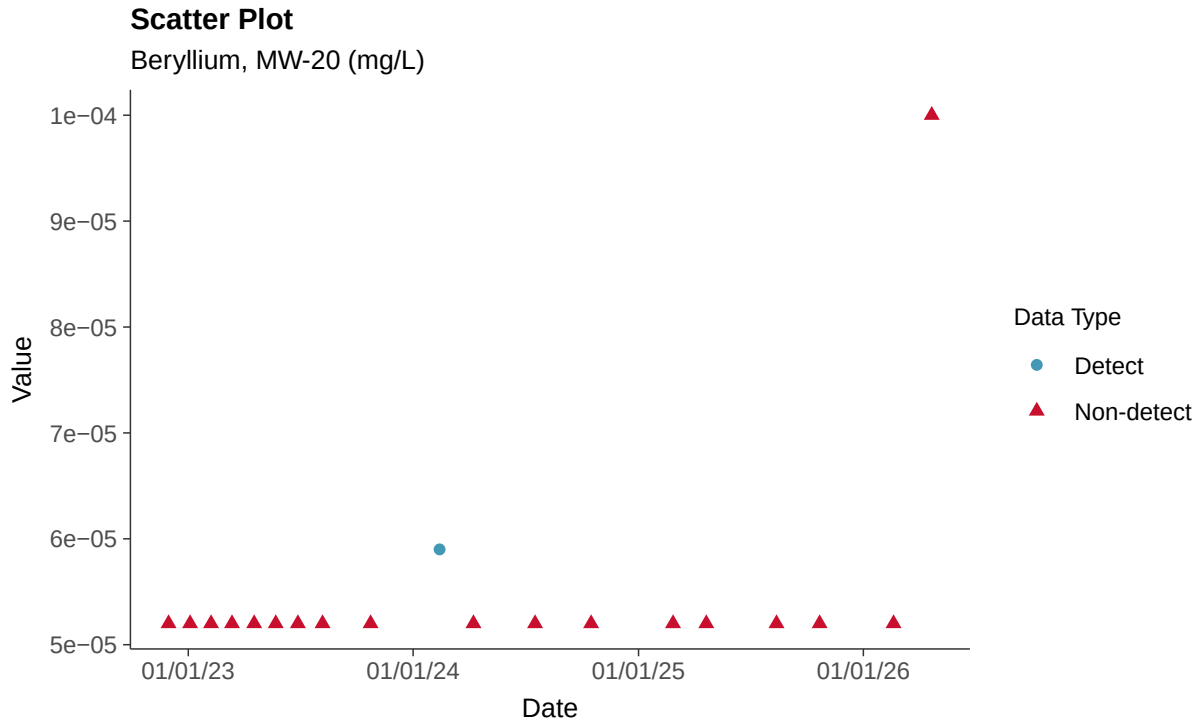
Trend Regression: Piecewise Linear-Linear-Linear

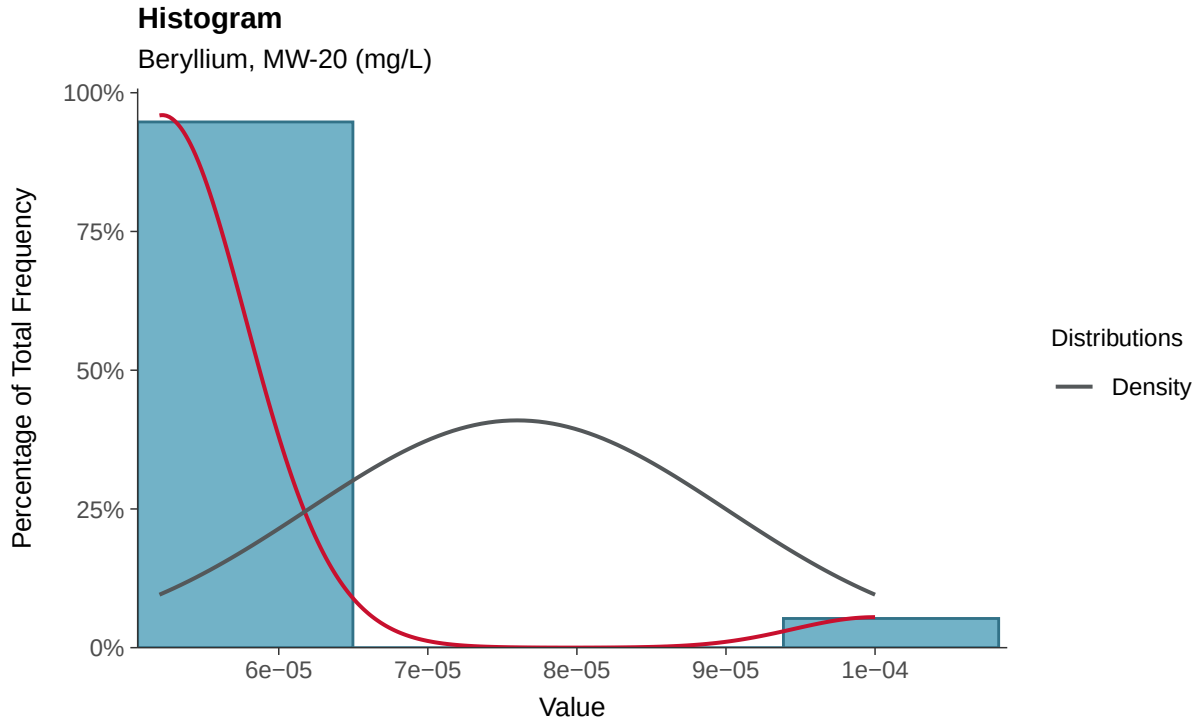
Barium, MW-20 (mg/L)



Appendix IV: Beryllium, MW-20

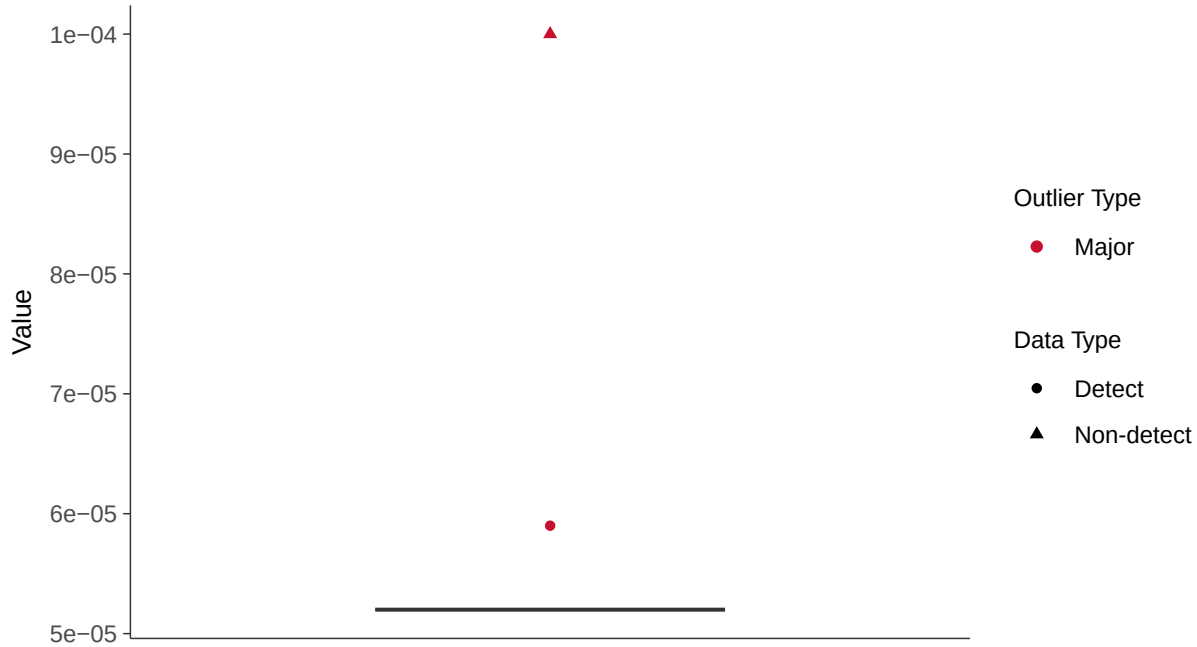
ID: 30_1_4_104





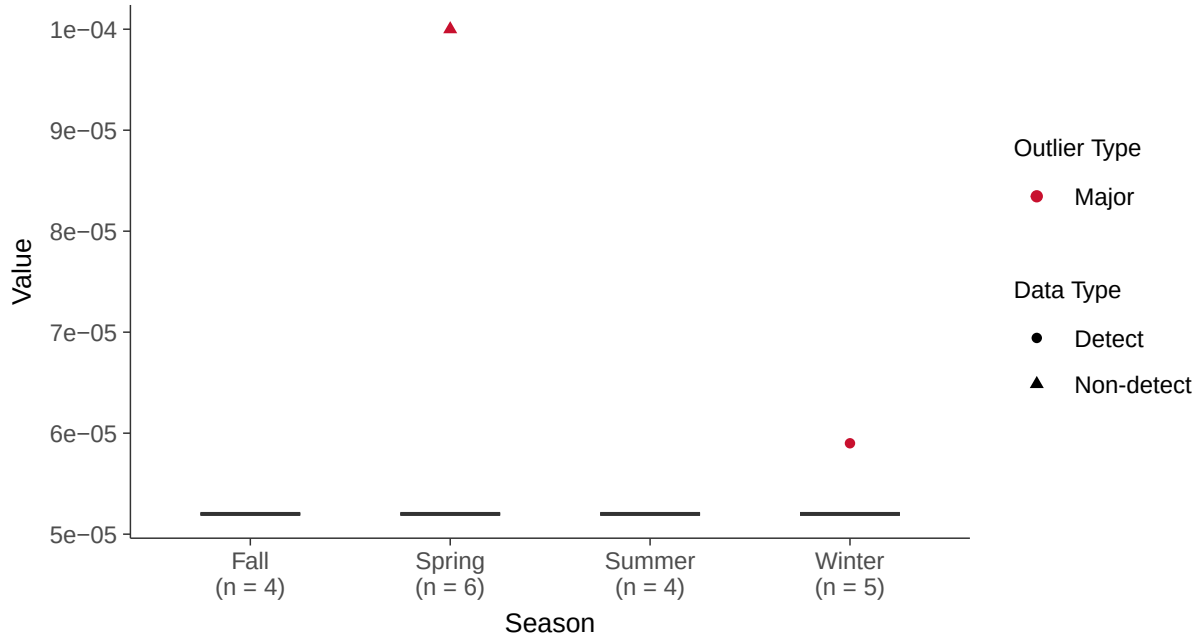
Boxplot

Beryllium, MW-20 (mg/L)



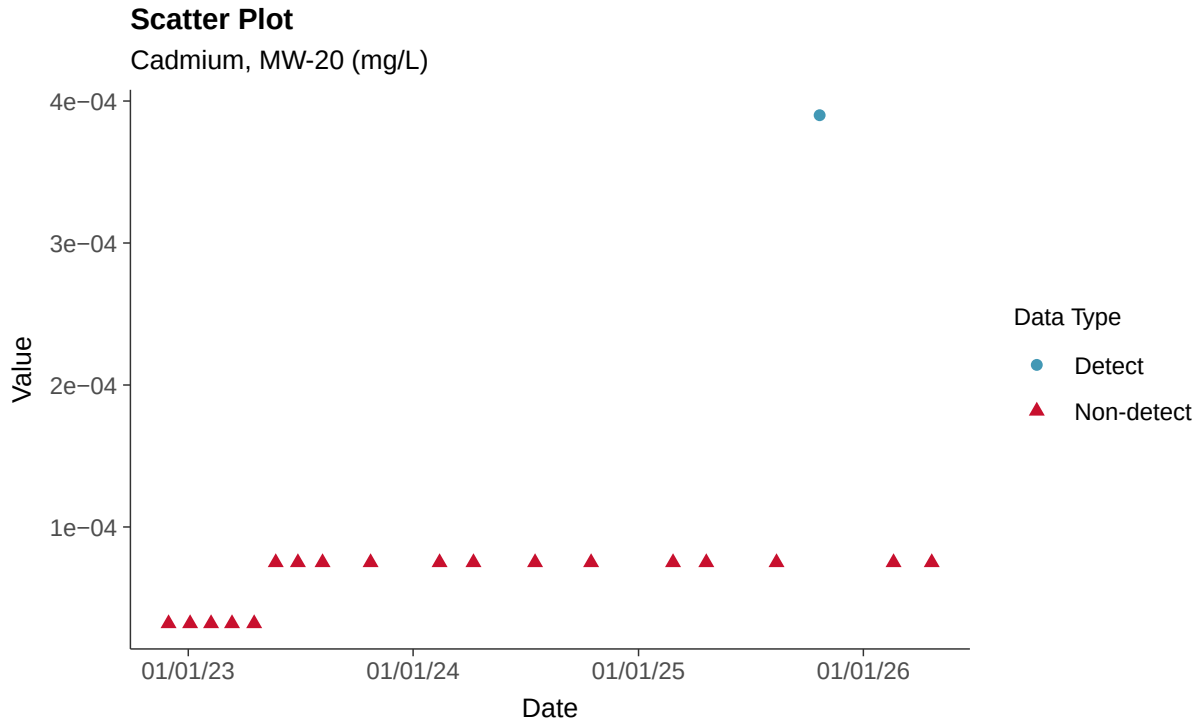
Boxplot by Season

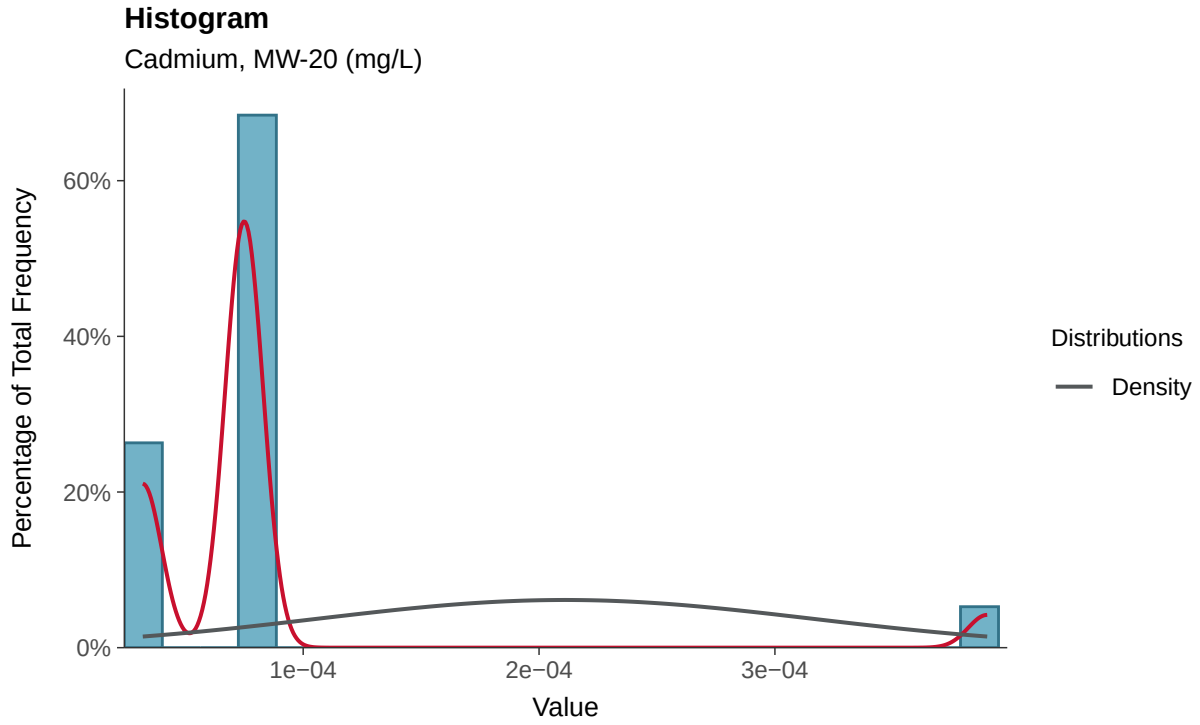
Beryllium, MW-20 (mg/L)



Appendix IV: Cadmium, MW-20

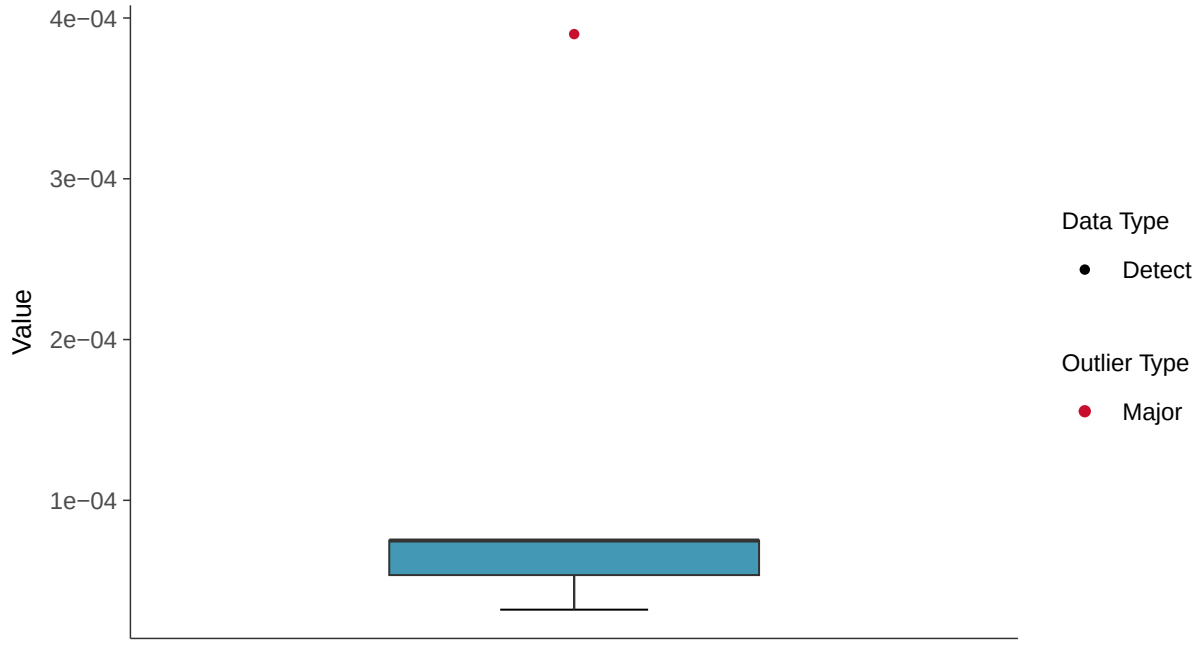
ID: 30_1_4_106





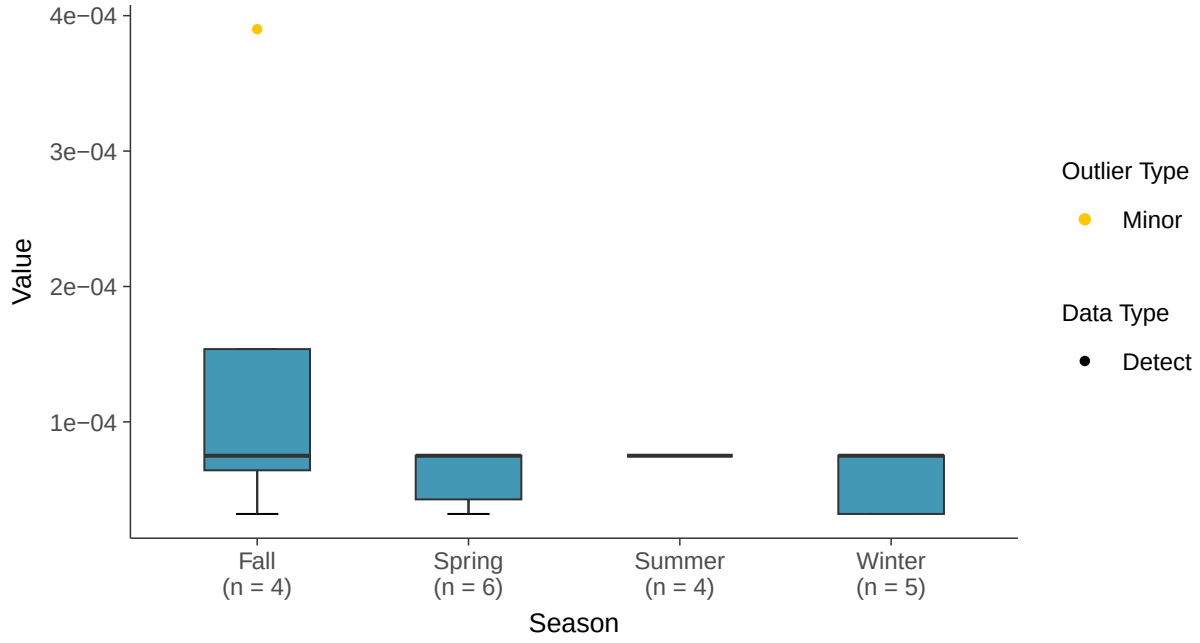
Boxplot

Cadmium, MW-20 (mg/L)



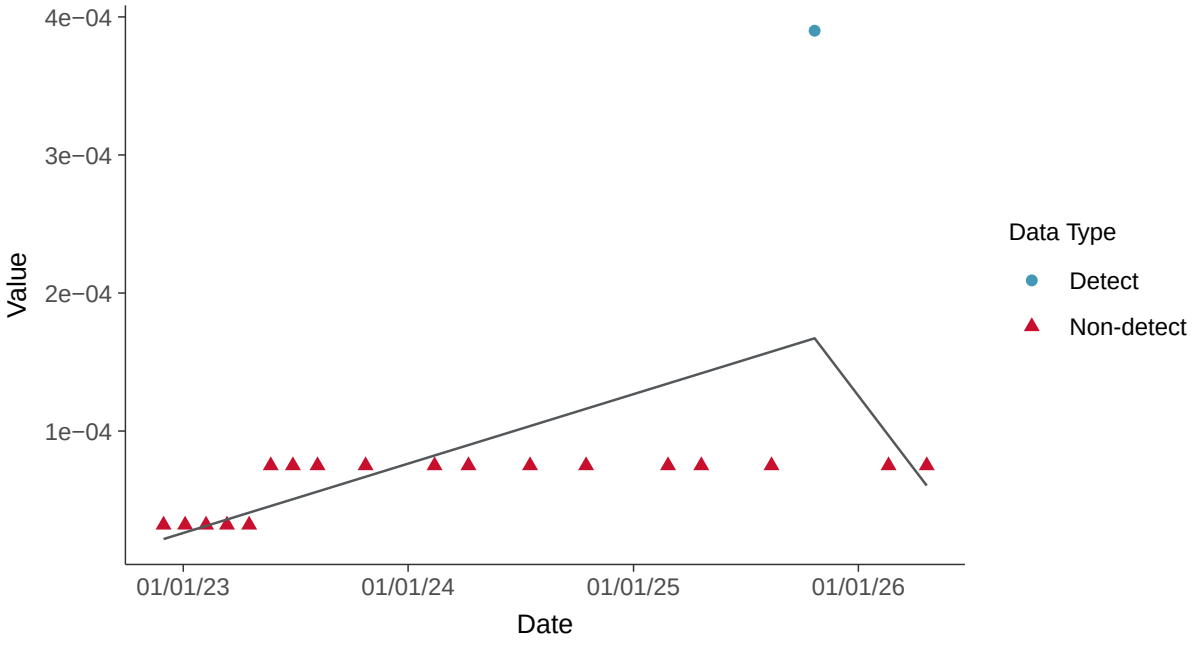
Boxplot by Season

Cadmium, MW-20 (mg/L)



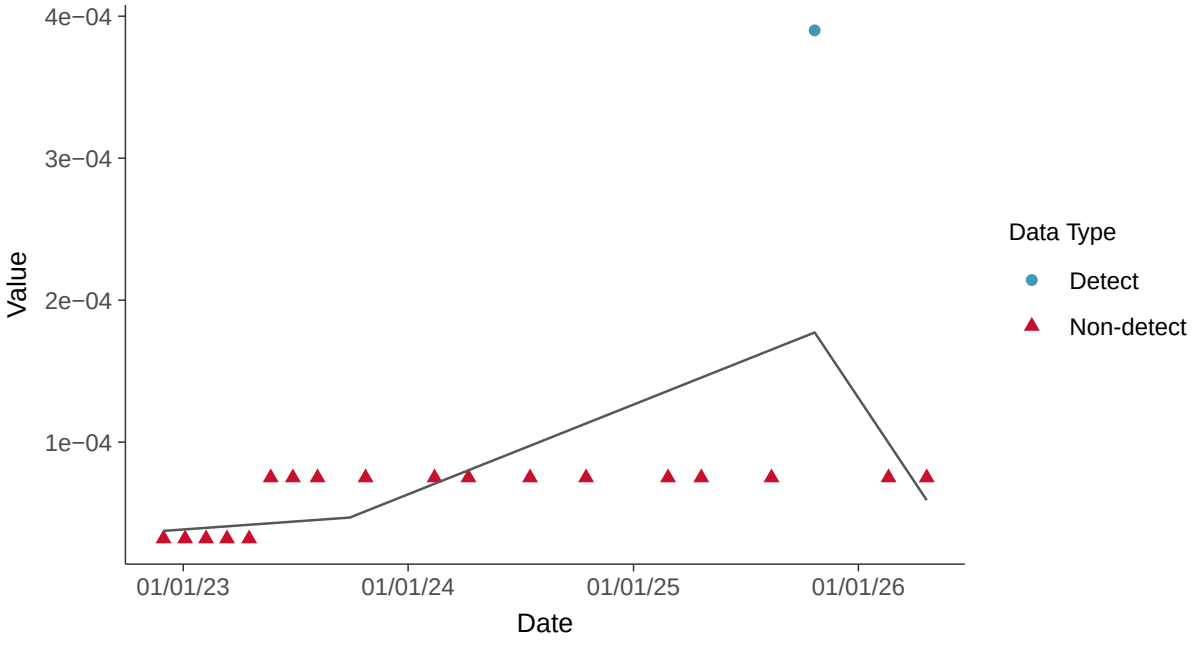
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-20 (mg/L)

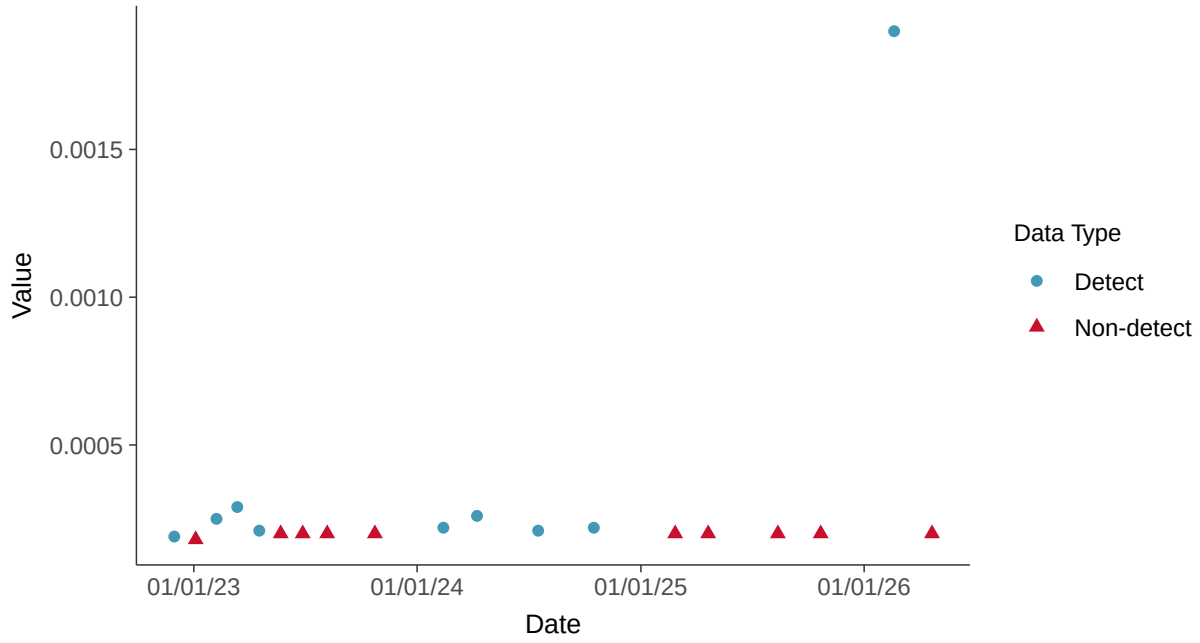


Appendix IV: Chromium, Total, MW-20

ID: 30_1_4_109

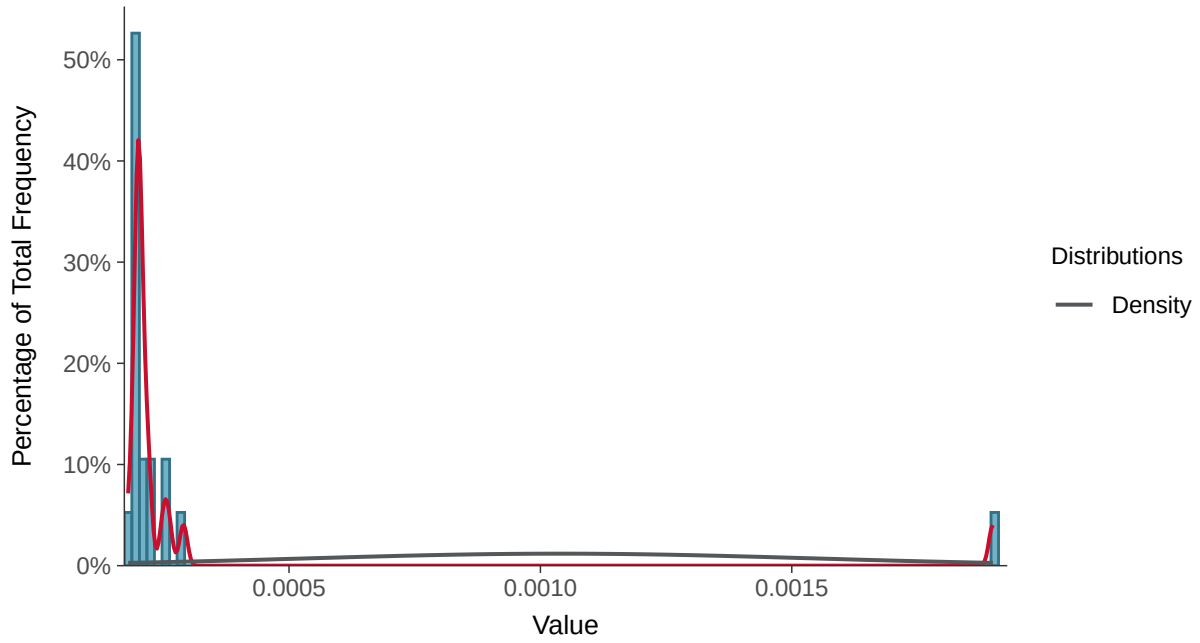
Scatter Plot

Chromium, Total, MW-20 (mg/L)



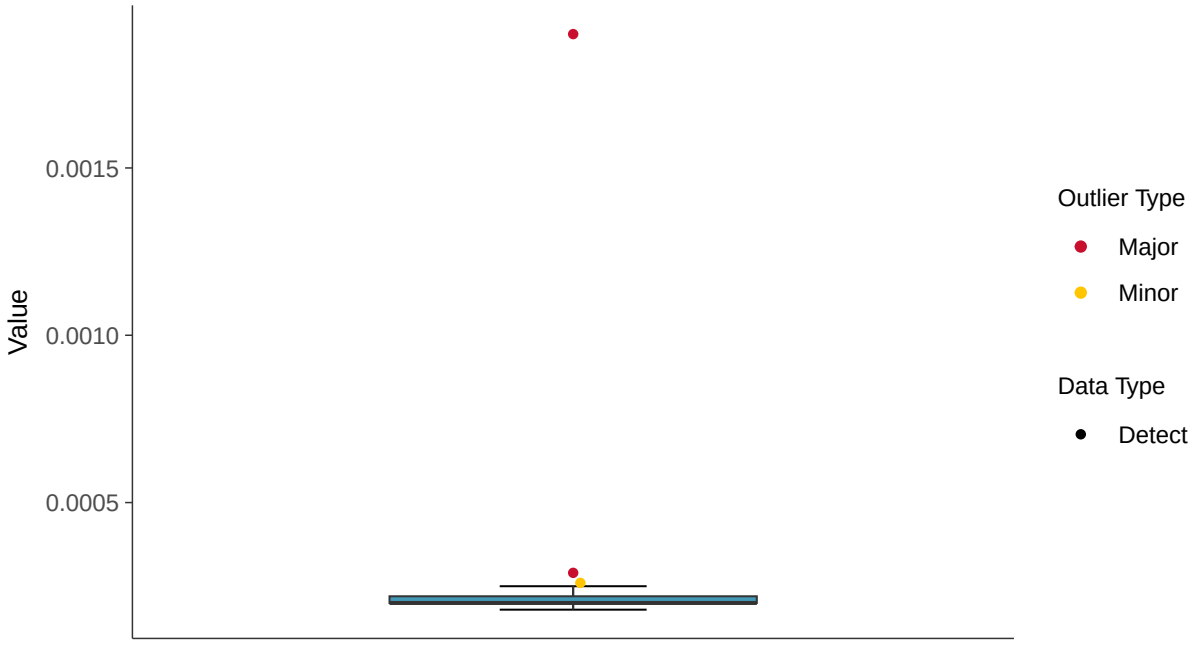
Histogram

Chromium, Total, MW-20 (mg/L)



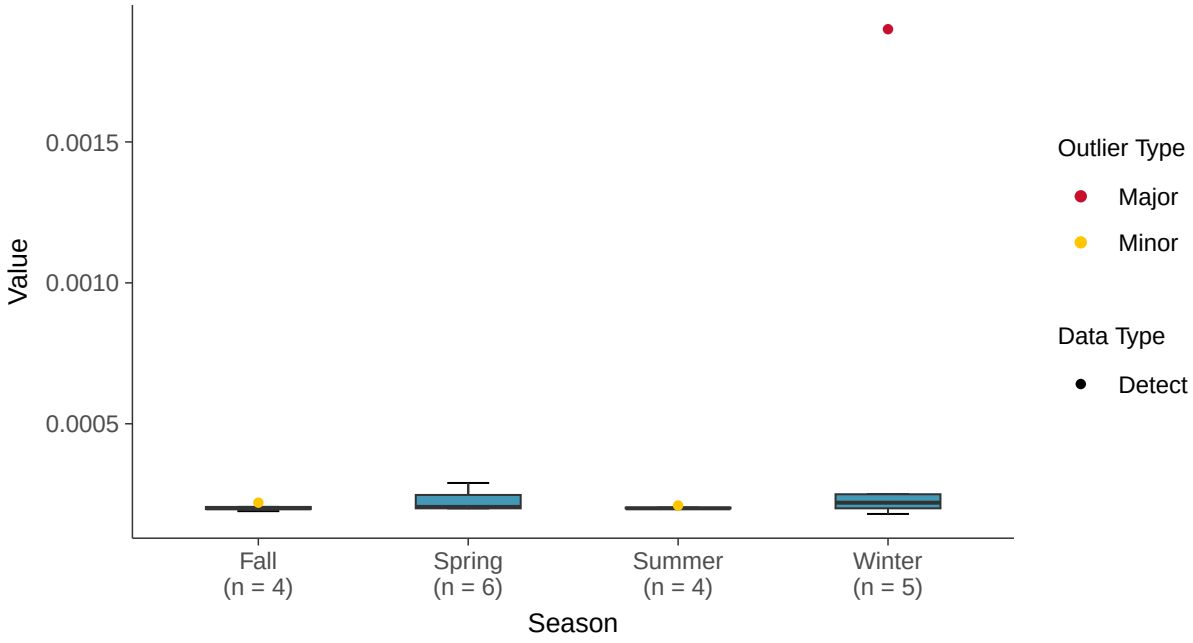
Boxplot

Chromium, Total, MW-20 (mg/L)



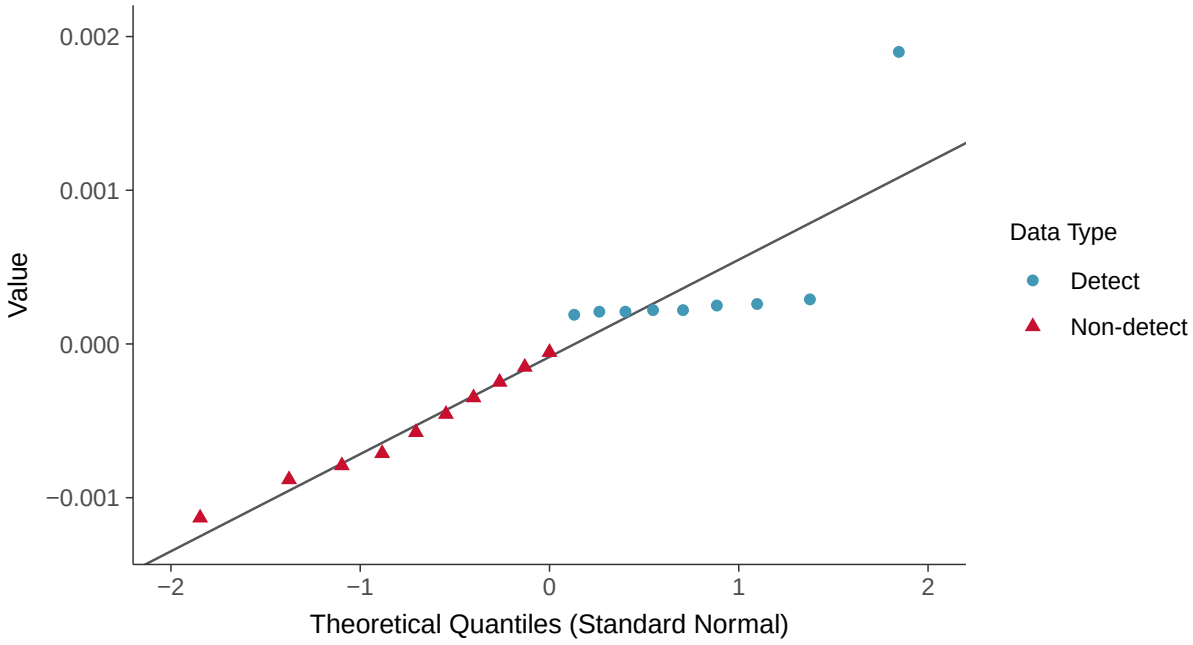
Boxplot by Season

Chromium, Total, MW-20 (mg/L)



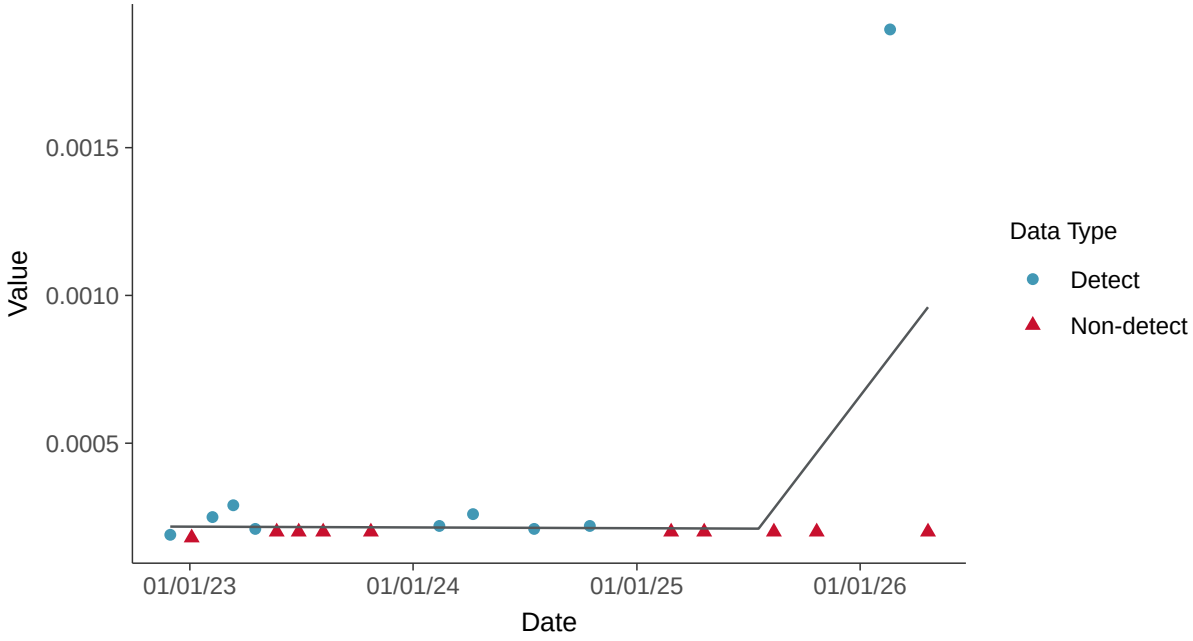
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-20 (mg/L)

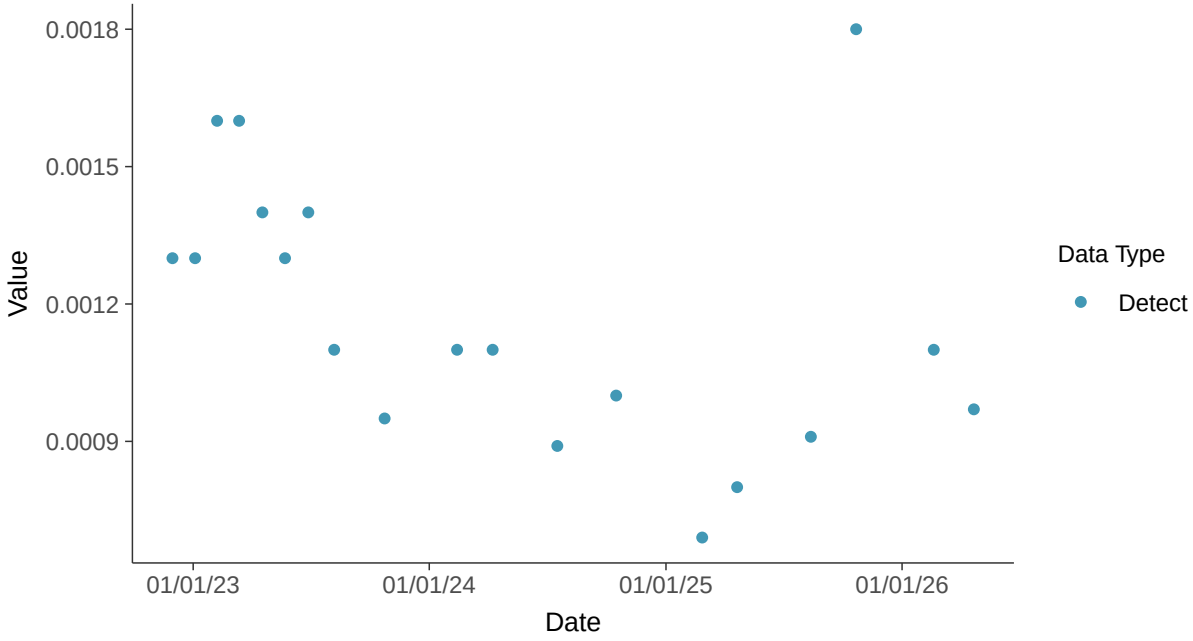


Appendix IV: Cobalt, MW-20

ID: 30_1_4_110

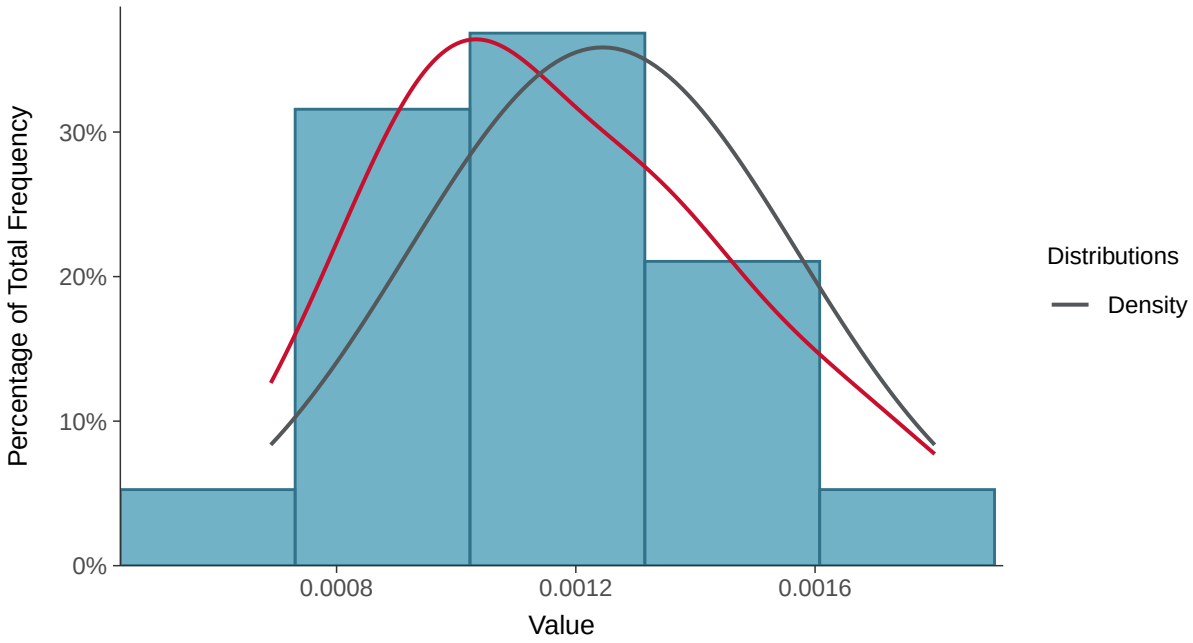
Scatter Plot

Cobalt, MW-20 (mg/L)



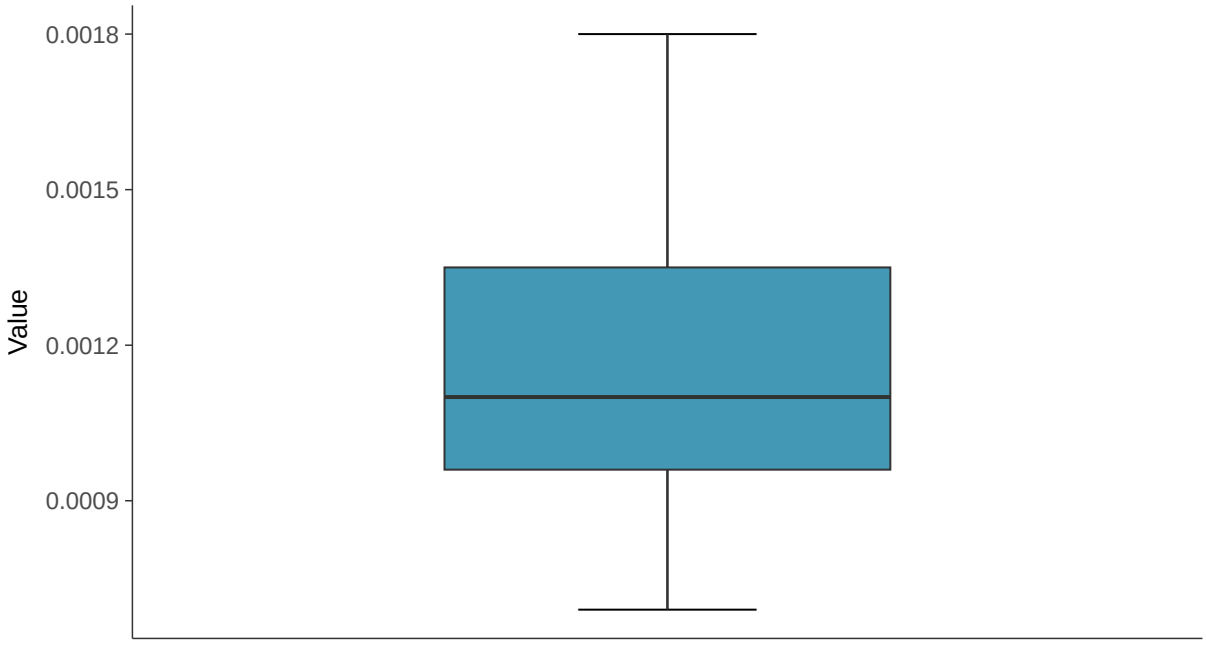
Histogram

Cobalt, MW-20 (mg/L)



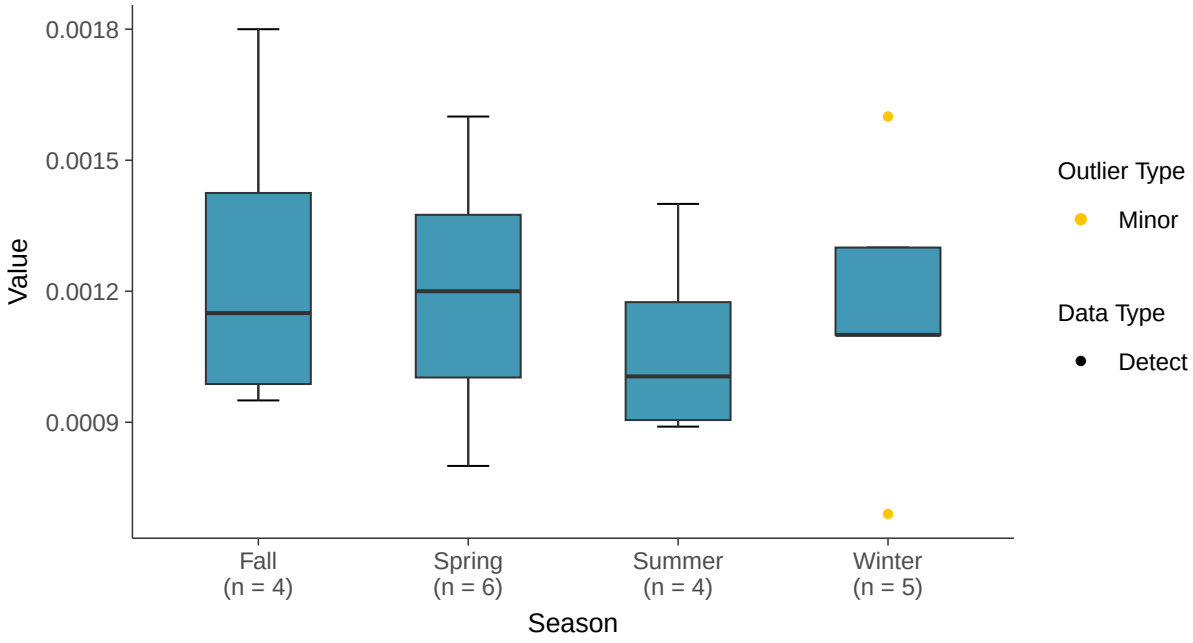
Boxplot

Cobalt, MW-20 (mg/L)



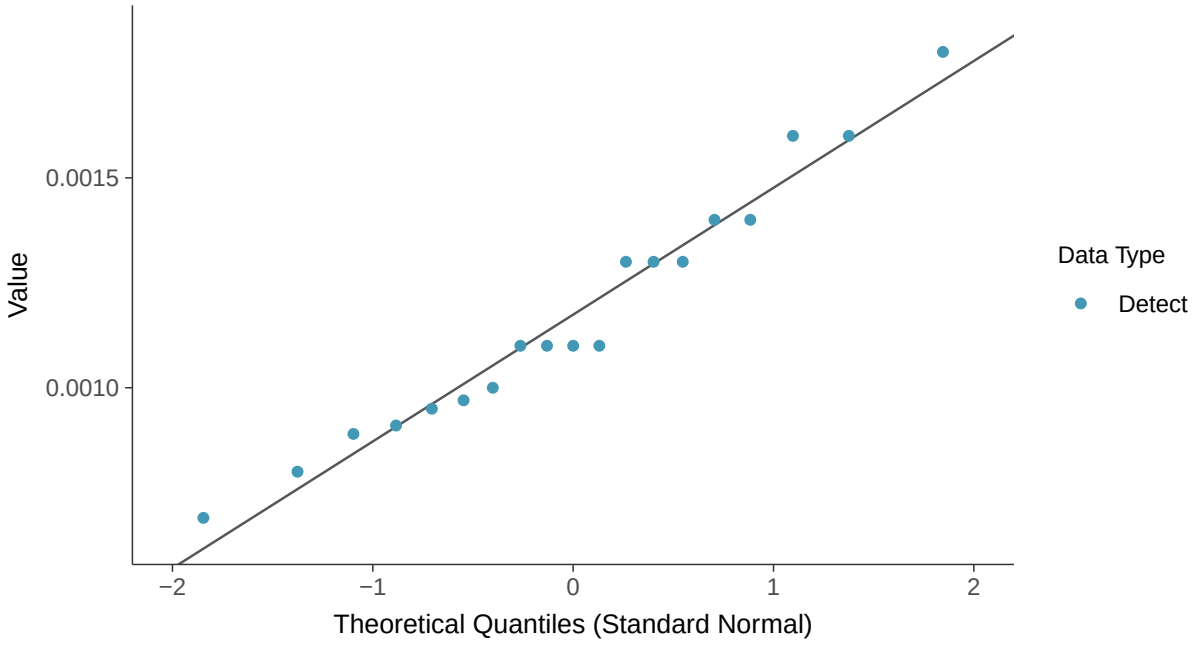
Boxplot by Season

Cobalt, MW-20 (mg/L)



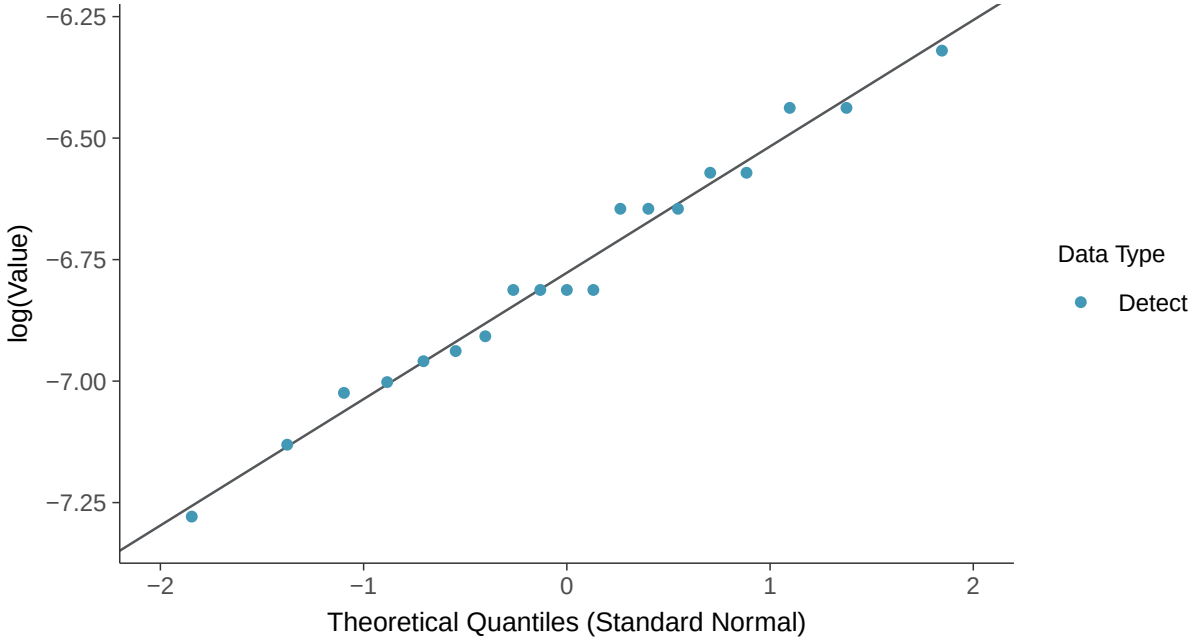
Normal Q-Q plot

Cobalt, MW-20 (mg/L)



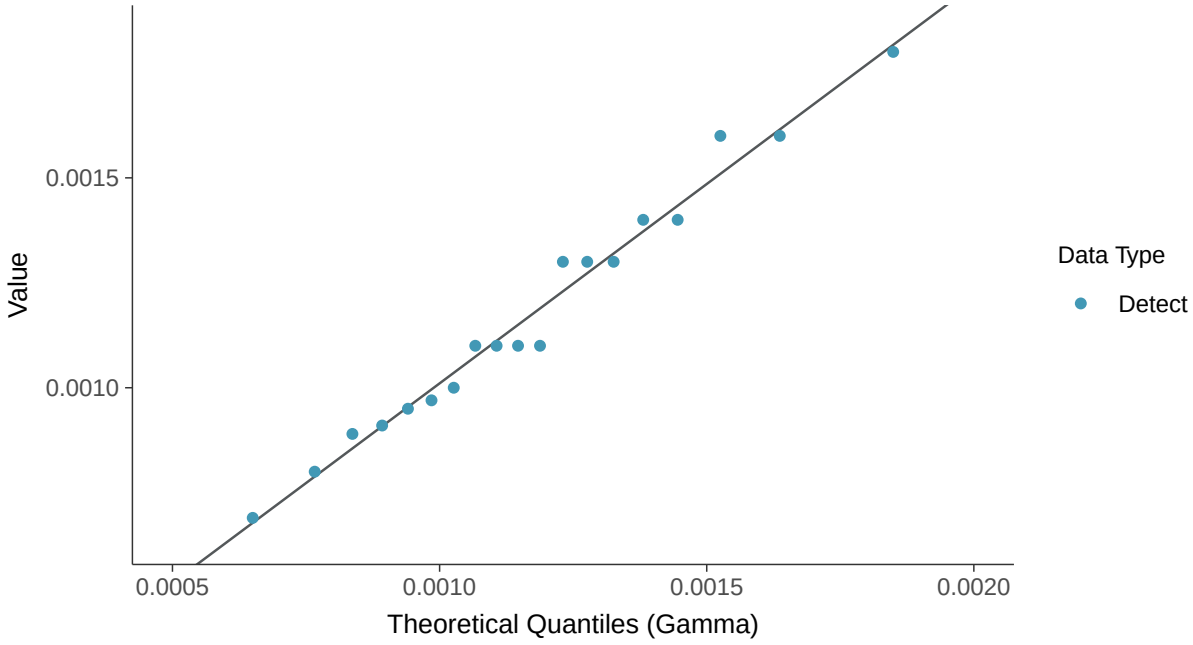
Lognormal Q-Q plot

Cobalt, MW-20 (mg/L)



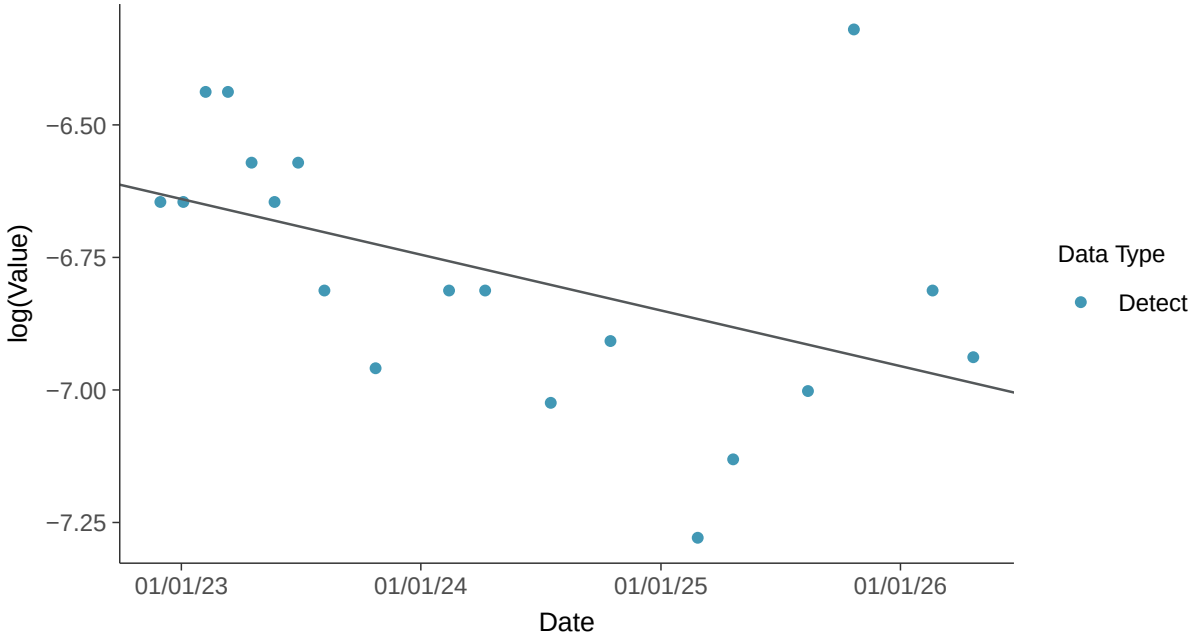
Gamma Q-Q plot

Cobalt, MW-20 (mg/L)



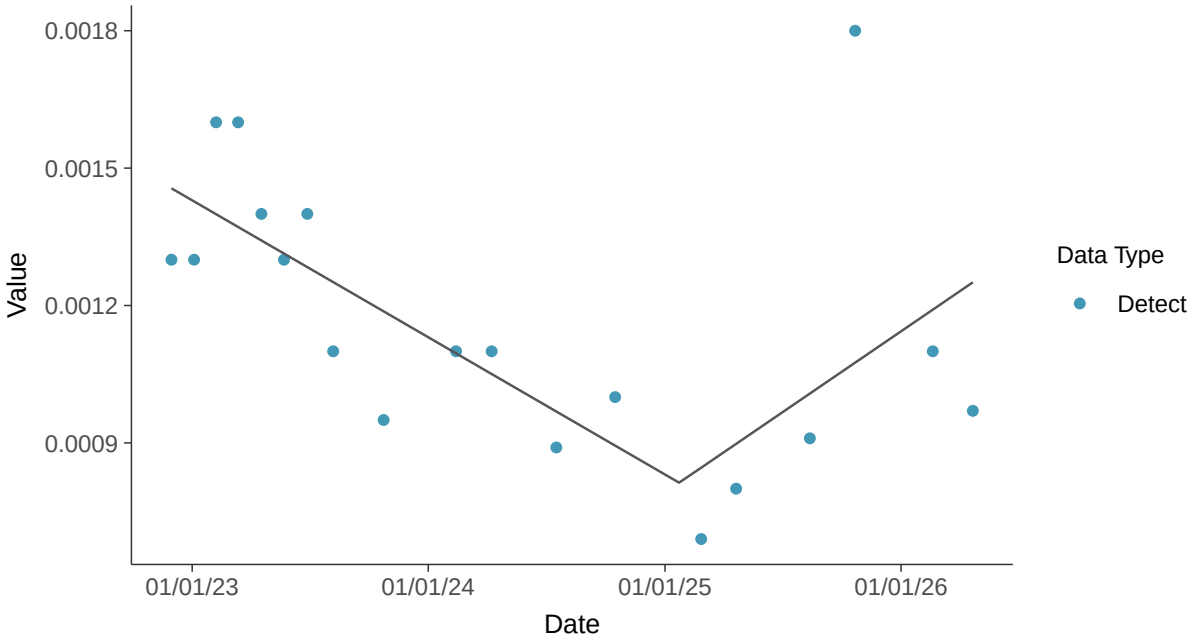
Trend Regression: Lognormal MLE

Cobalt, MW-20 (mg/L)



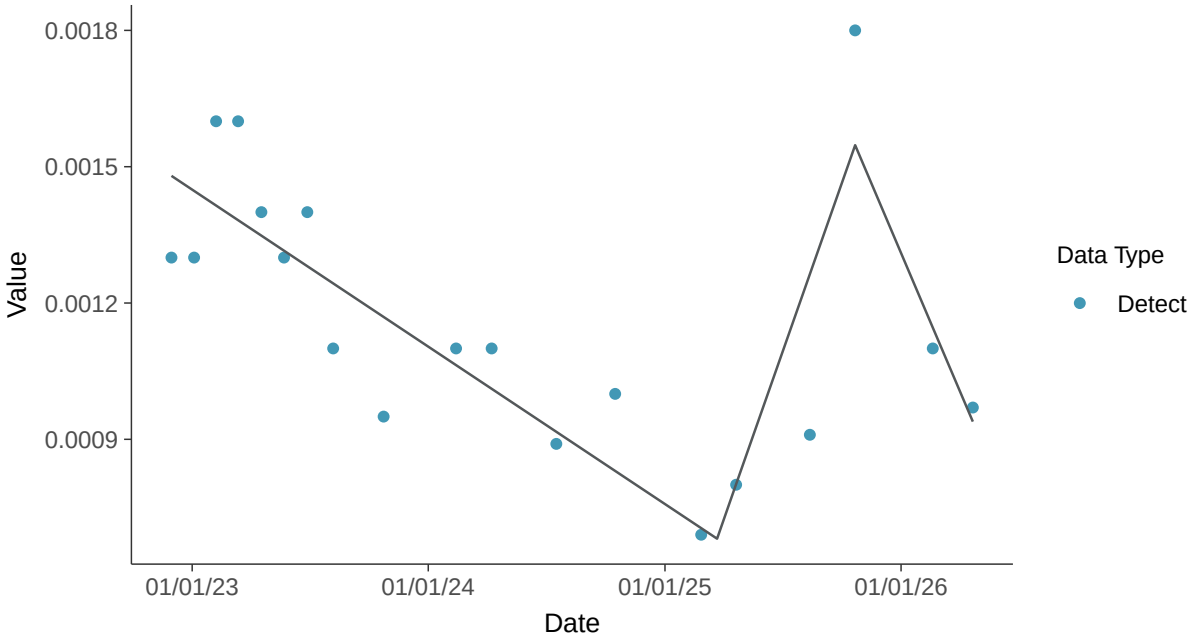
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-20 (mg/L)

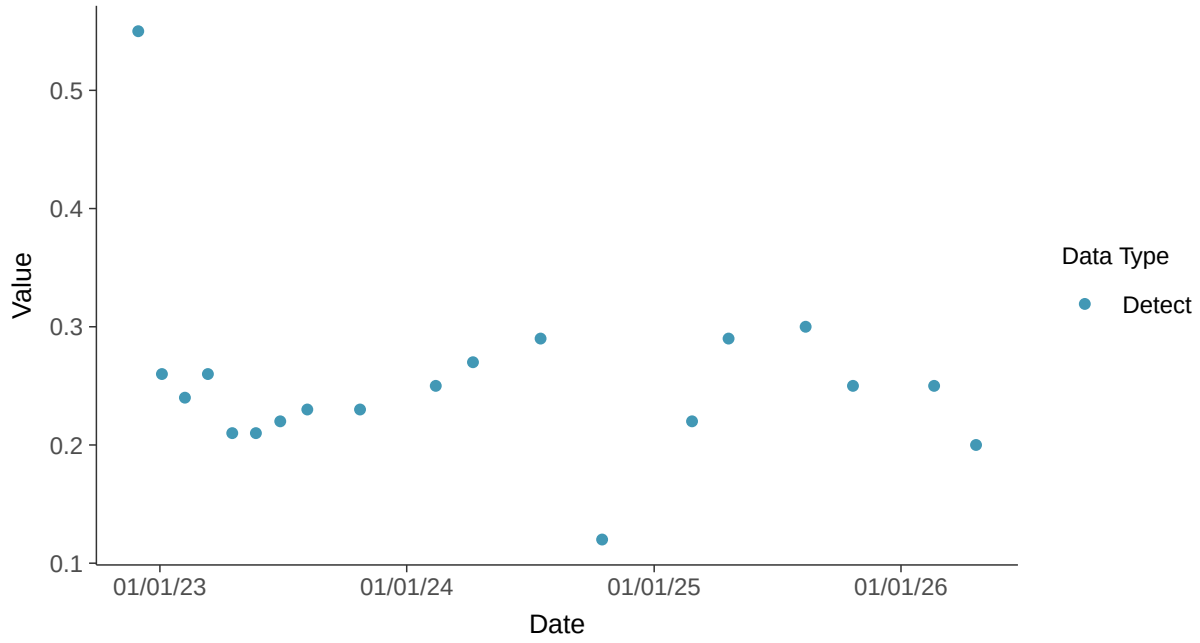


Appendix IV: Fluoride (App IV), MW-20

ID: 30_1_4_113

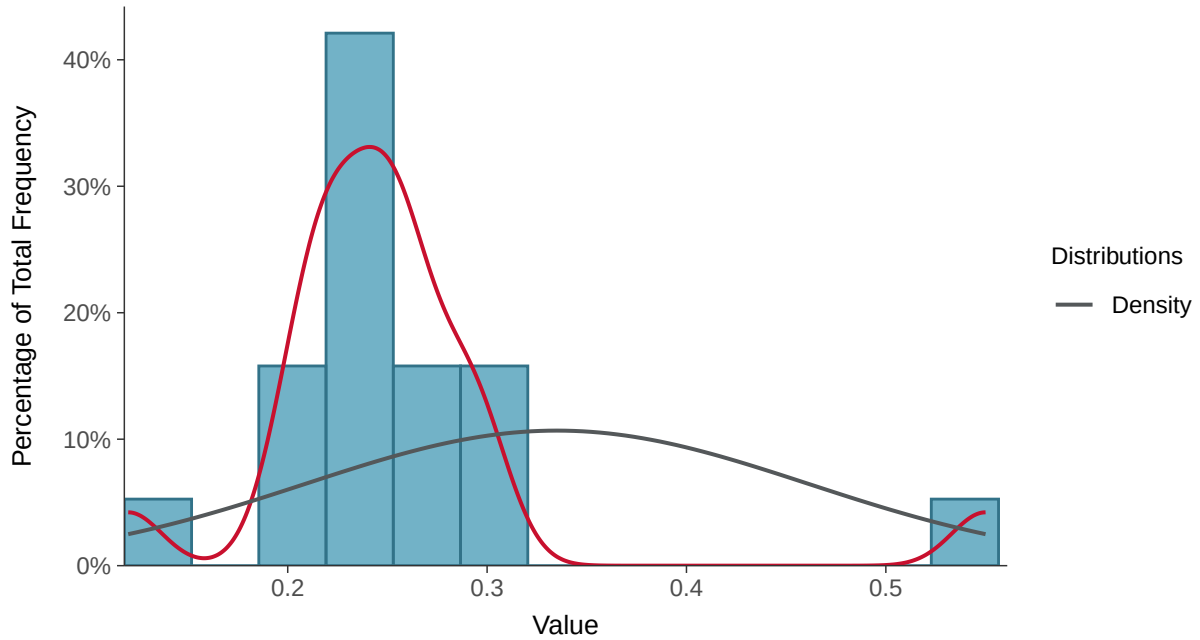
Scatter Plot

Fluoride (App IV), MW-20 (mg/L)



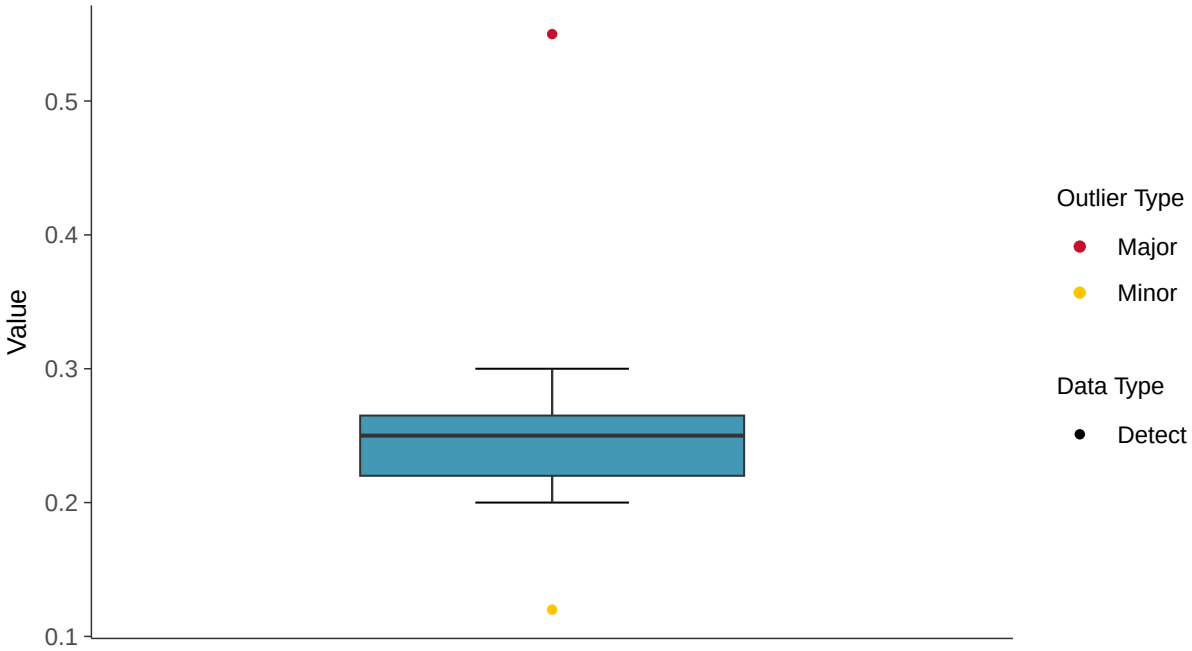
Histogram

Fluoride (App IV), MW-20 (mg/L)



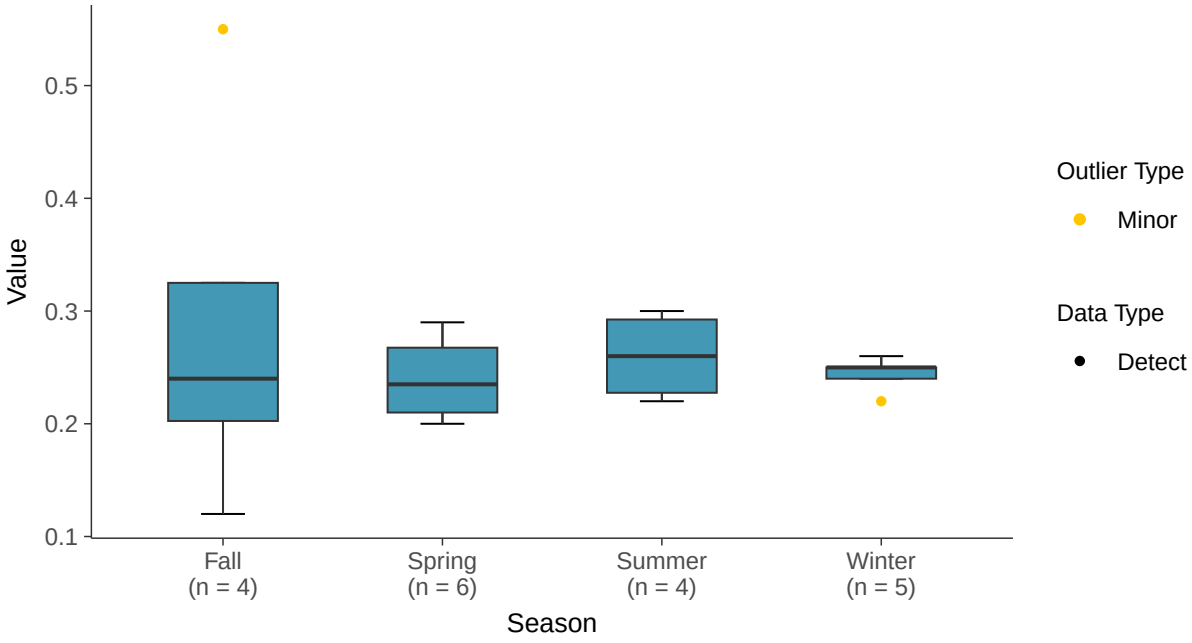
Boxplot

Fluoride (App IV), MW-20 (mg/L)



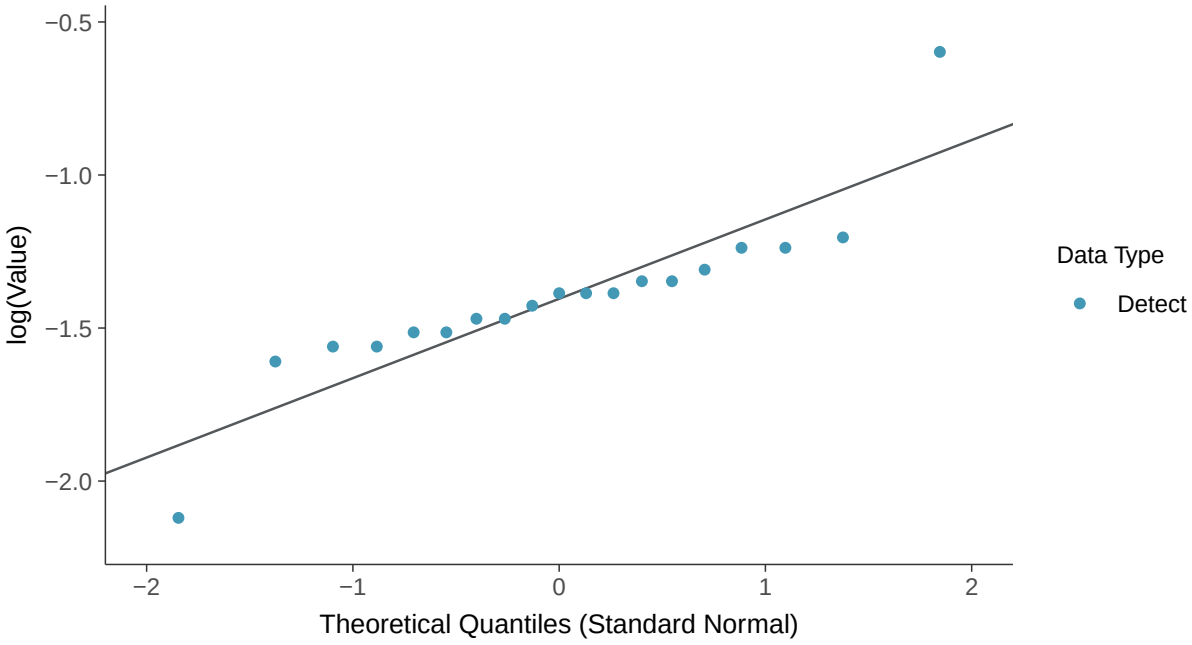
Boxplot by Season

Fluoride (App IV), MW-20 (mg/L)



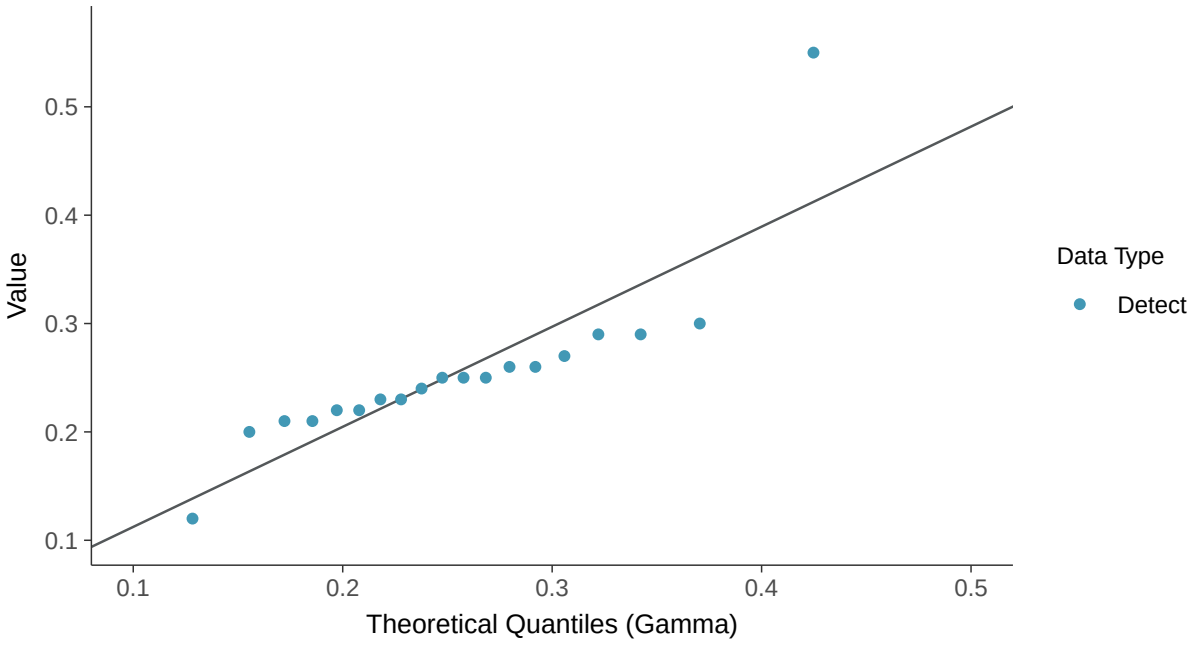
Lognormal Q-Q plot

Fluoride (App IV), MW-20 (mg/L)



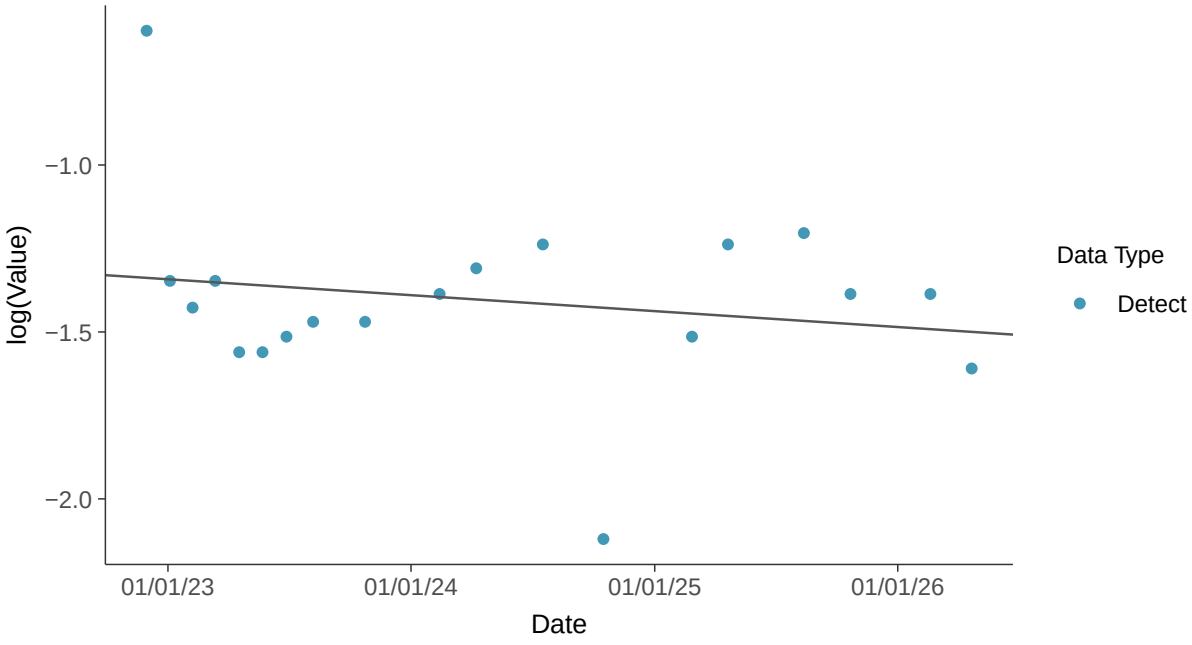
Gamma Q-Q plot

Fluoride (App IV), MW-20 (mg/L)



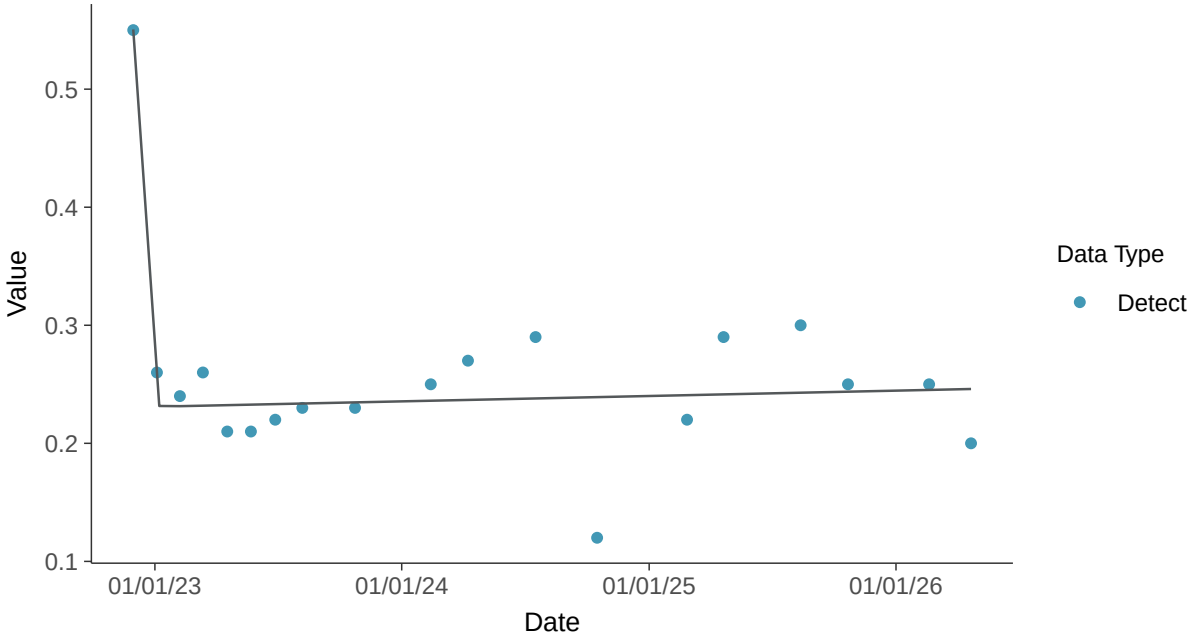
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-20 (mg/L)



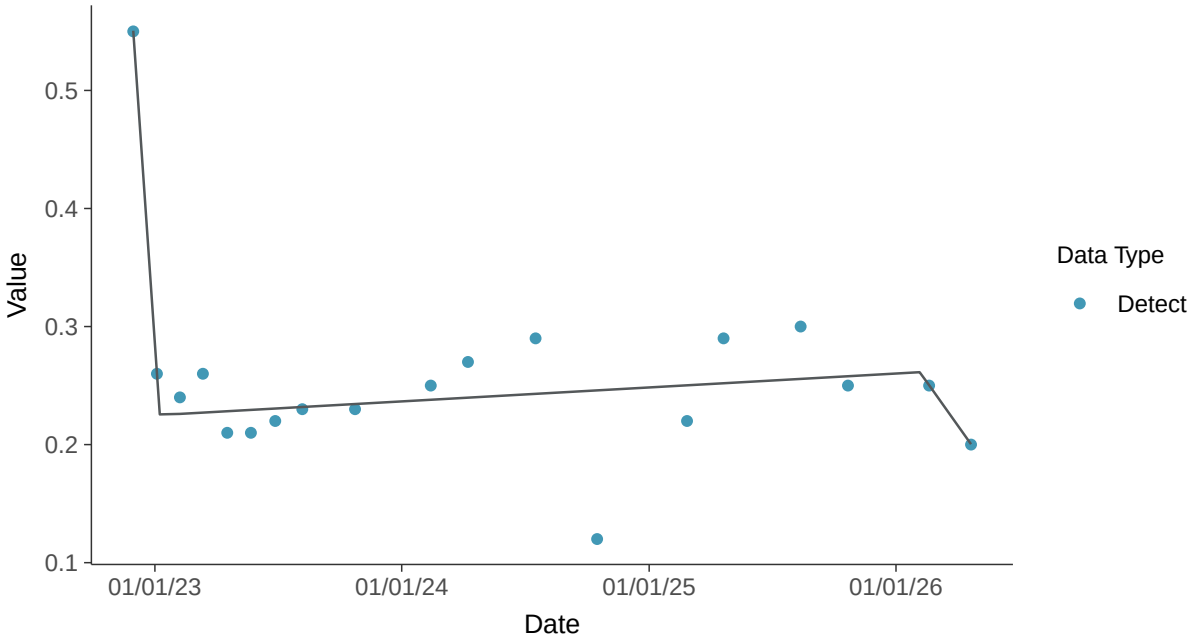
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-20 (mg/L)

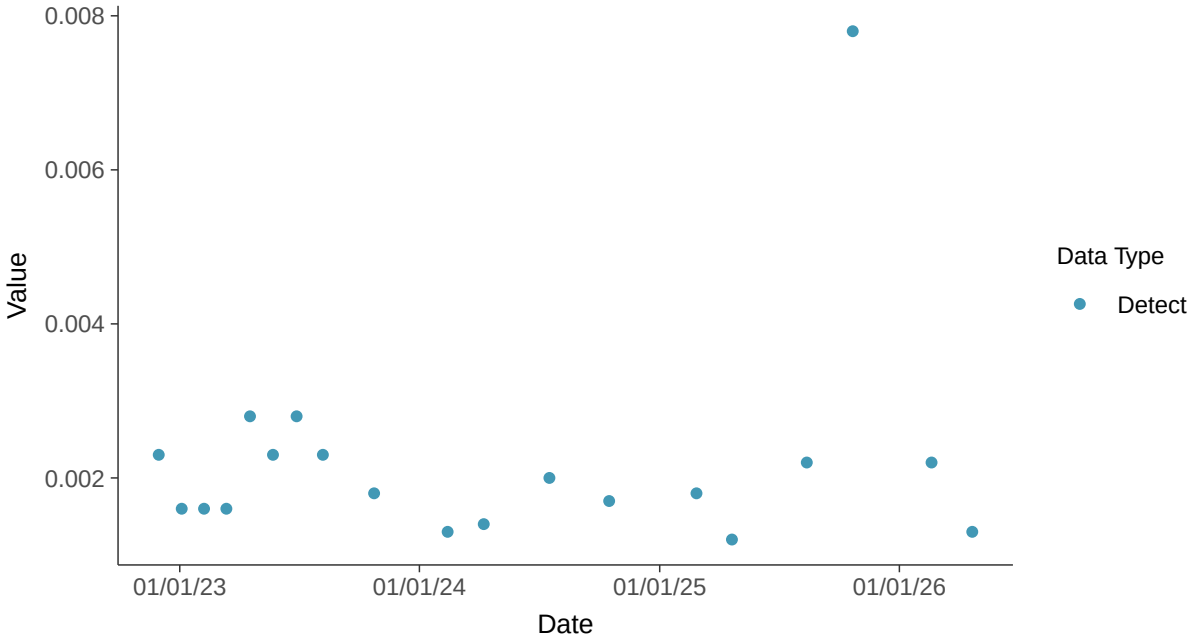


Appendix IV: Lead, MW-20

ID: 30_1_4_115

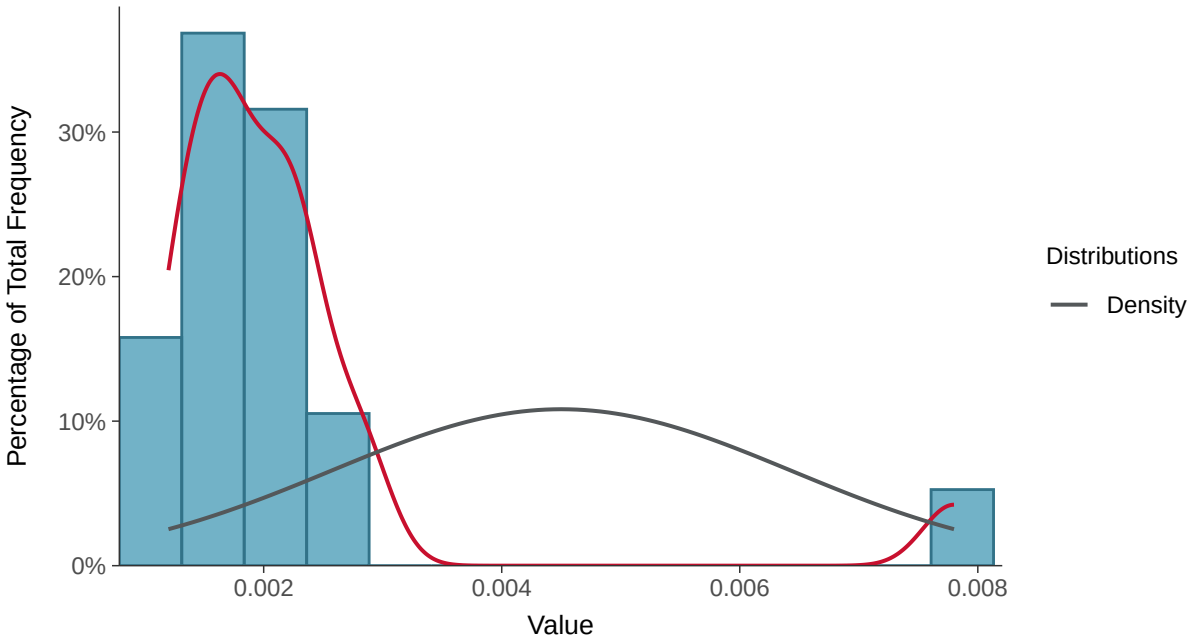
Scatter Plot

Lead, MW-20 (mg/L)



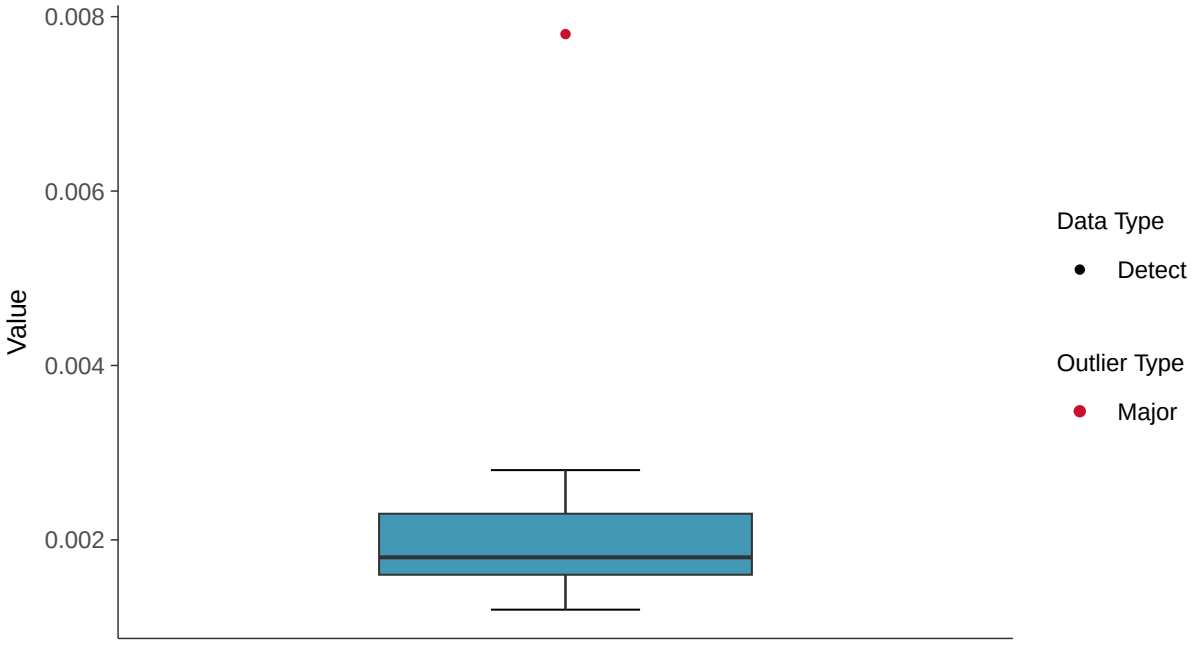
Histogram

Lead, MW-20 (mg/L)



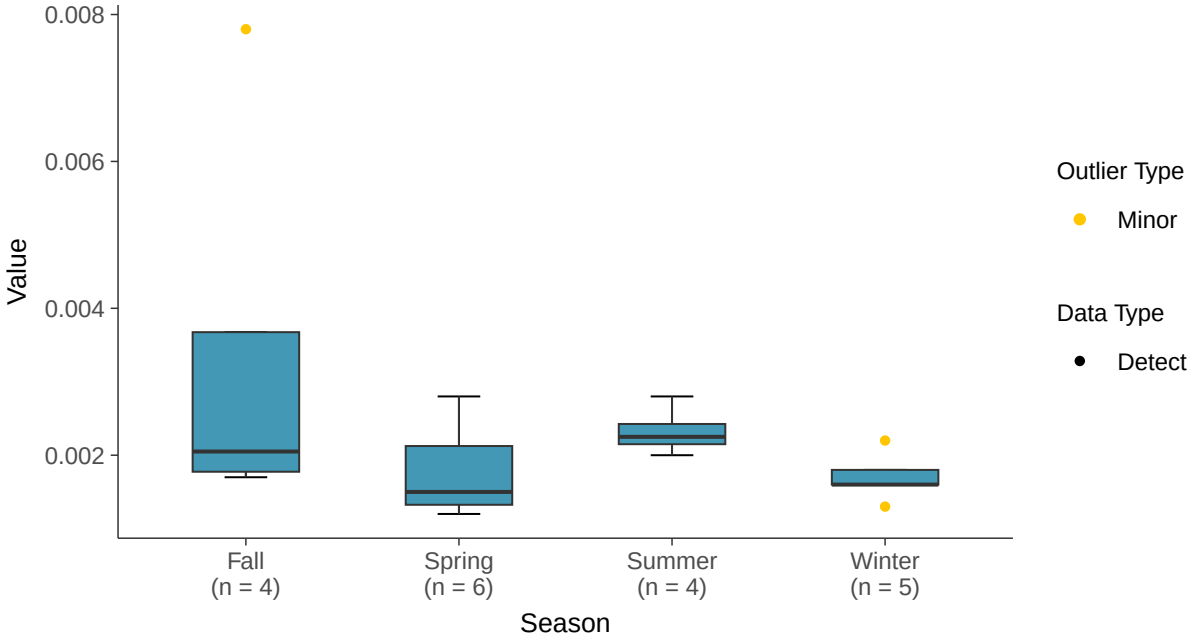
Boxplot

Lead, MW-20 (mg/L)



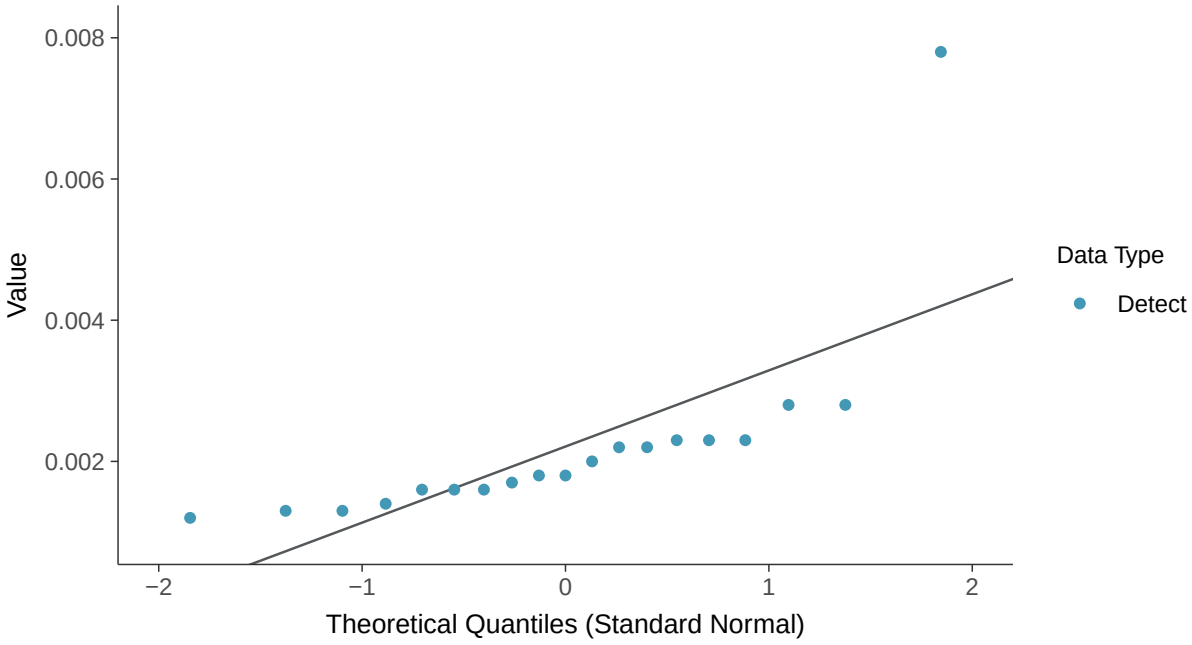
Boxplot by Season

Lead, MW-20 (mg/L)



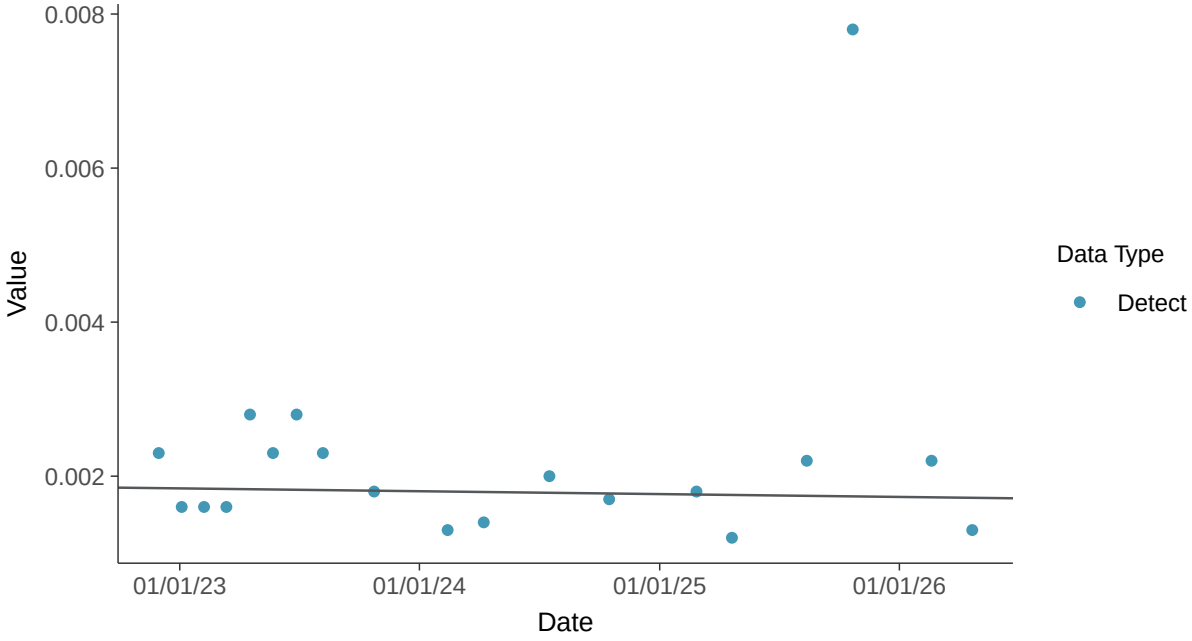
Normal Q-Q plot

Lead, MW-20 (mg/L)



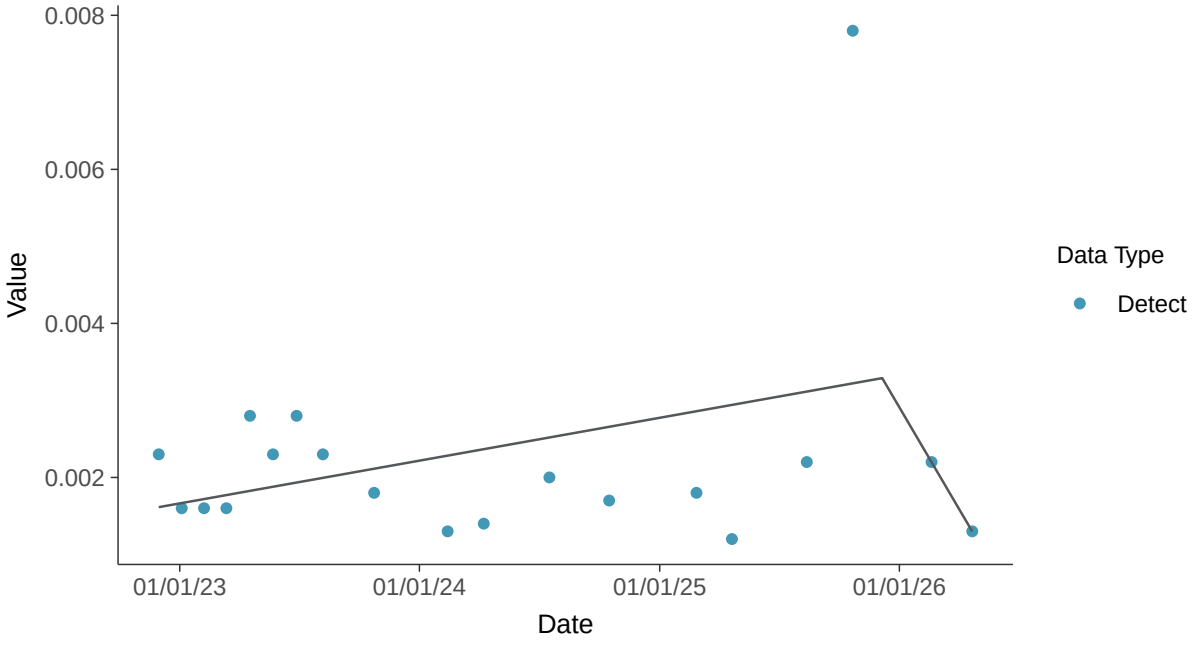
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Lead, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear

Lead, MW-20 (mg/L)

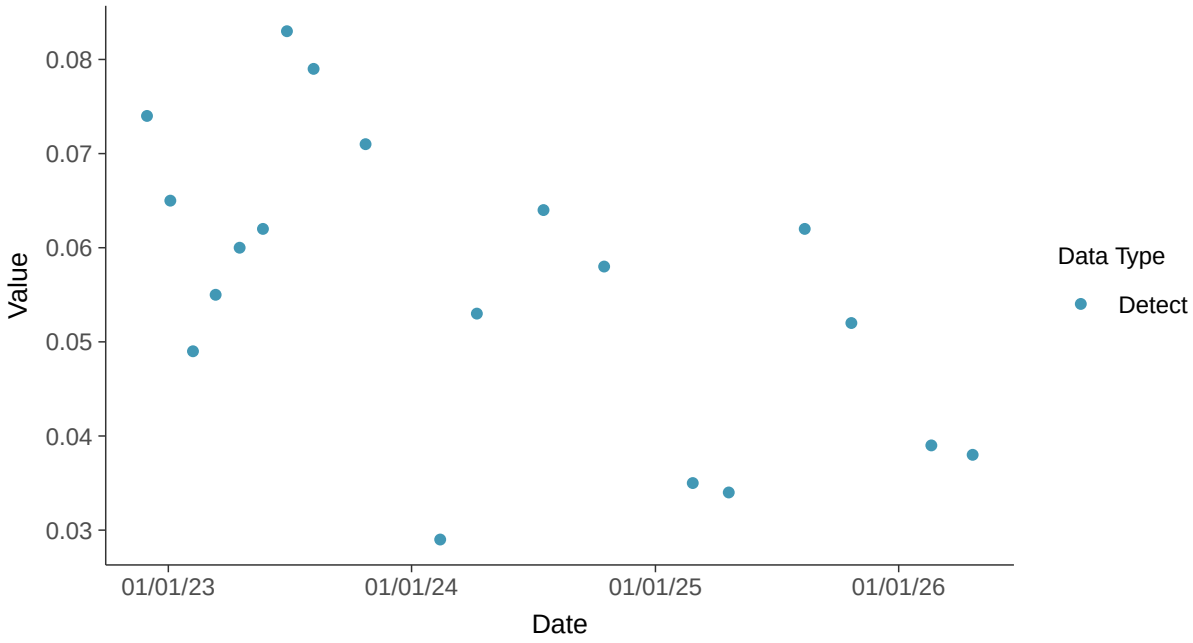


Appendix IV: Lithium, MW-20

ID: 30_1_4_116

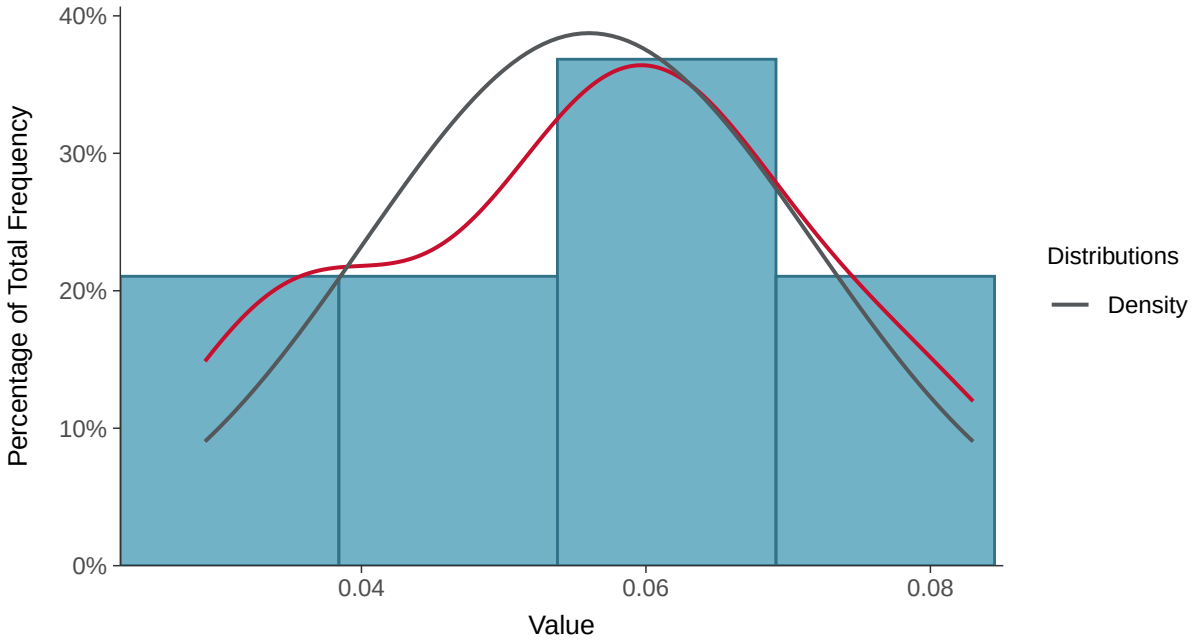
Scatter Plot

Lithium, MW-20 (mg/L)



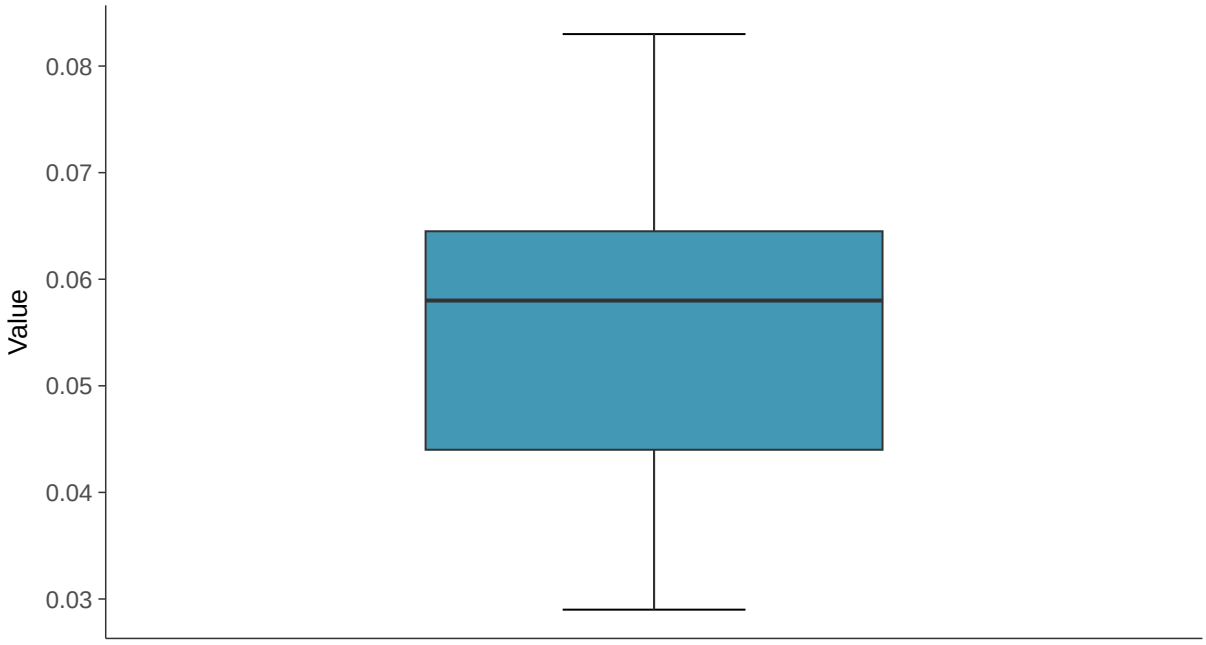
Histogram

Lithium, MW-20 (mg/L)



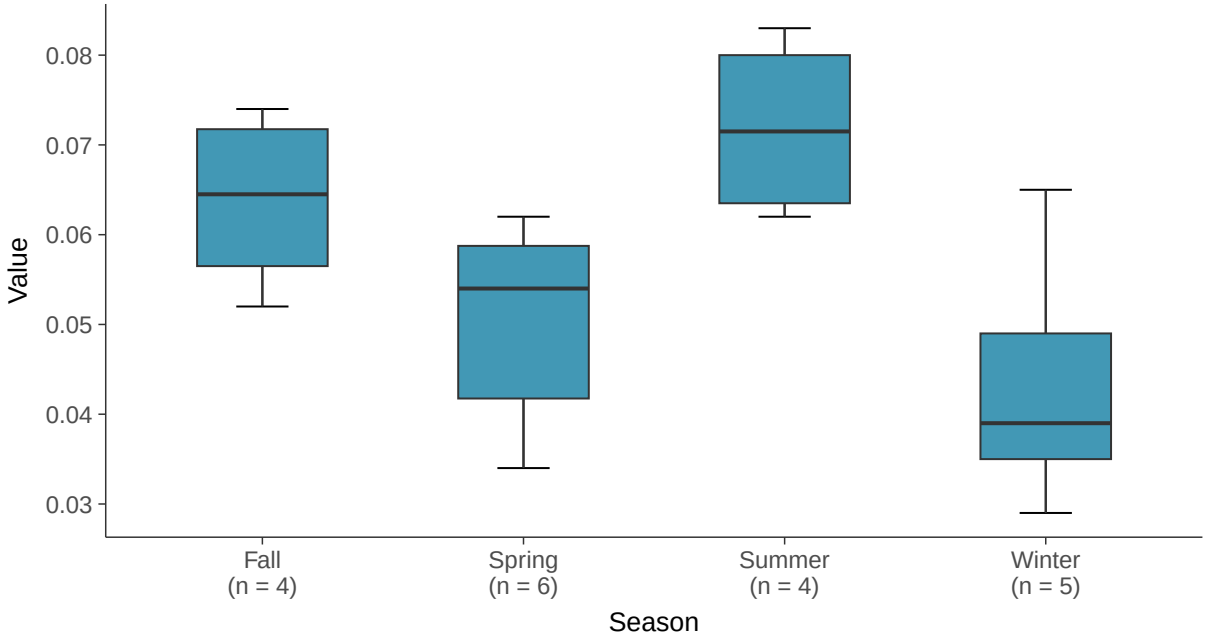
Boxplot

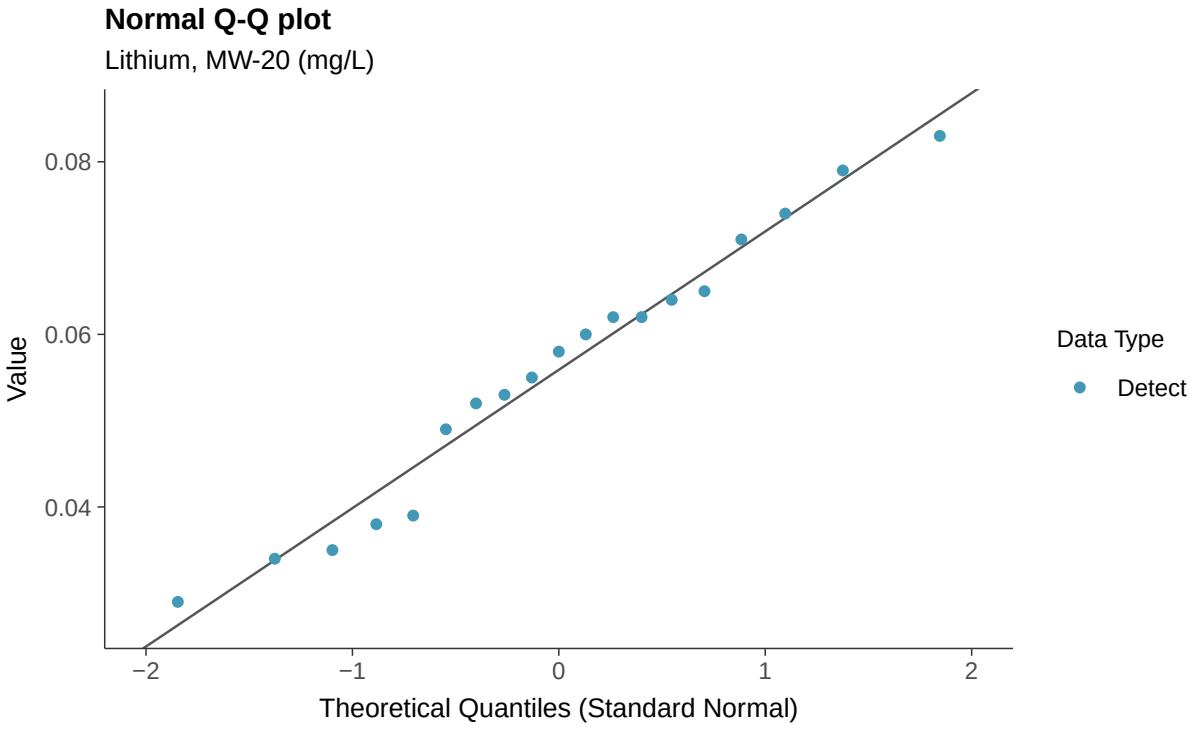
Lithium, MW-20 (mg/L)

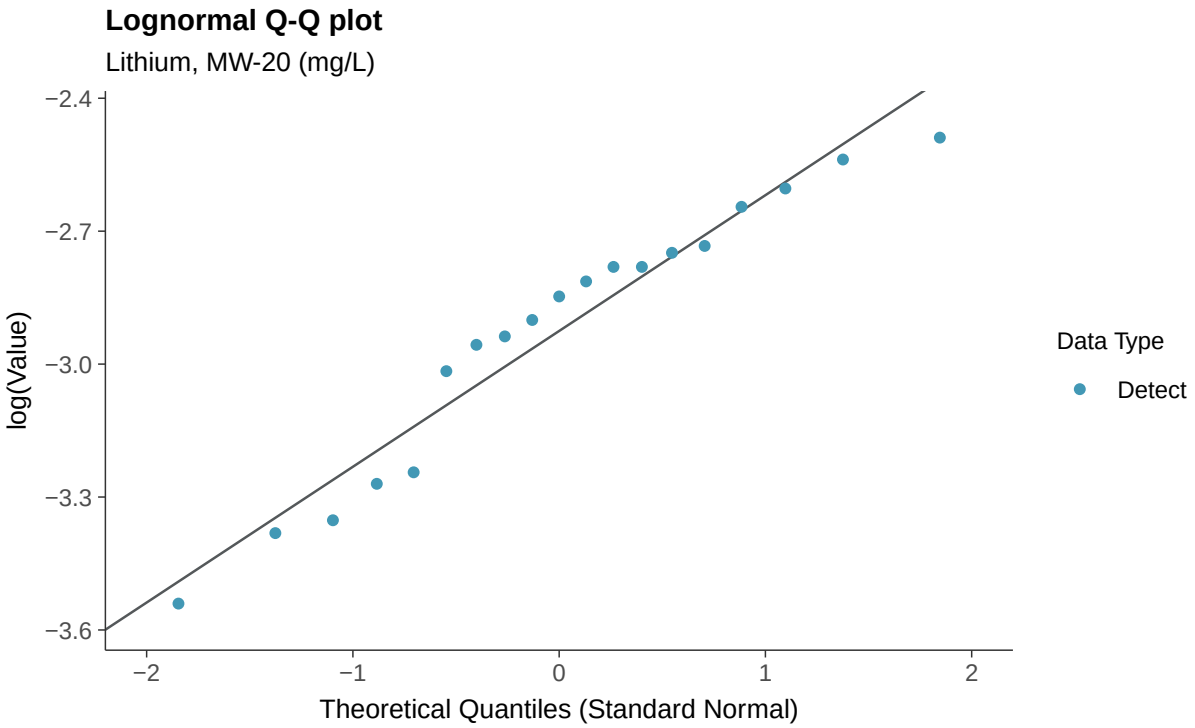


Boxplot by Season

Lithium, MW-20 (mg/L)

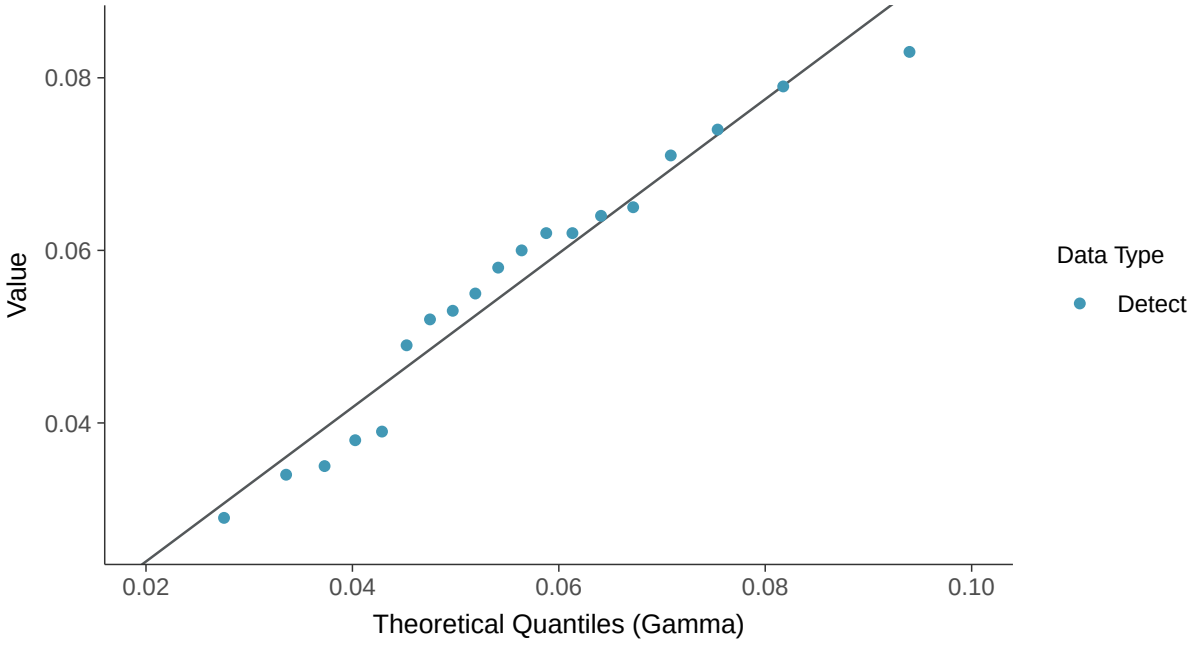



Normal Q-Q plot
Lithium, MW-20 (mg/L)
Value
0.08
0.06
0.04
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
Lithium, MW-20 (mg/L)
log(Value)
−2.4
−2.7
−3.0
−3.3
−3.6
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

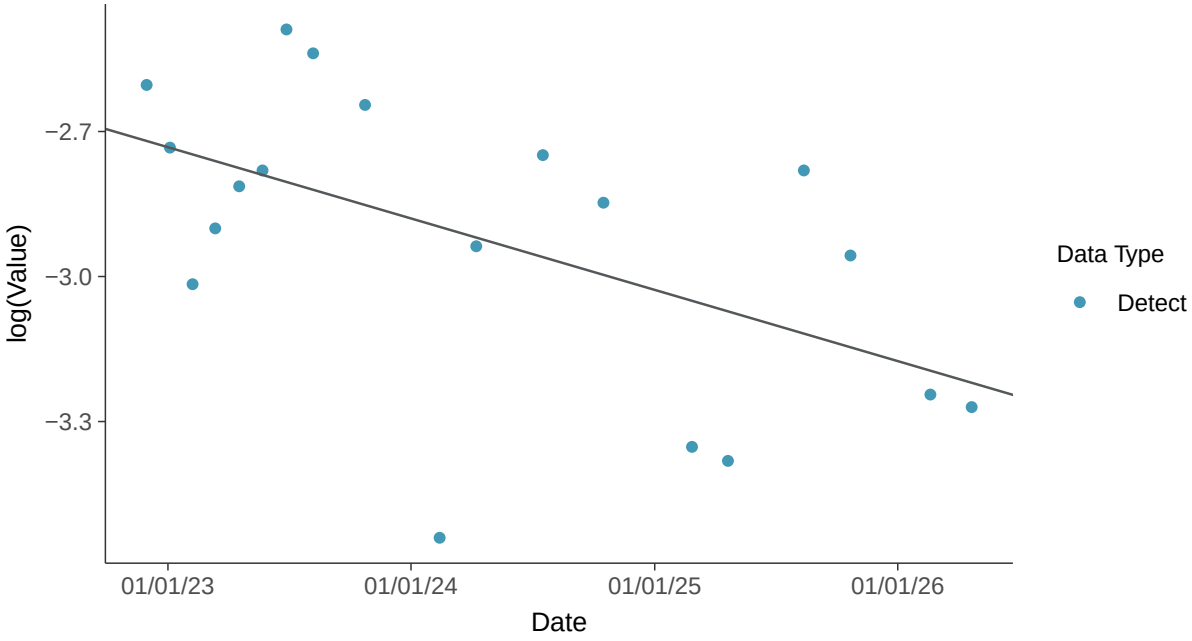
Gamma Q-Q plot

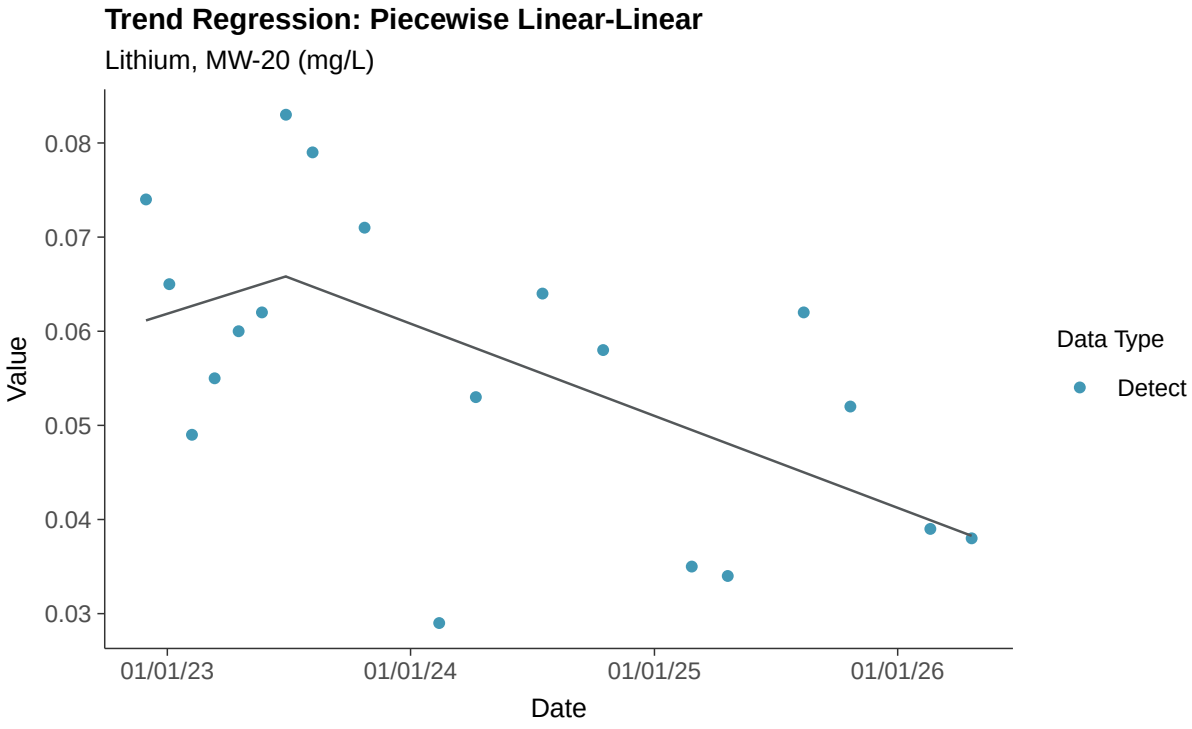
Lithium, MW-20 (mg/L)



Trend Regression: Lognormal MLE

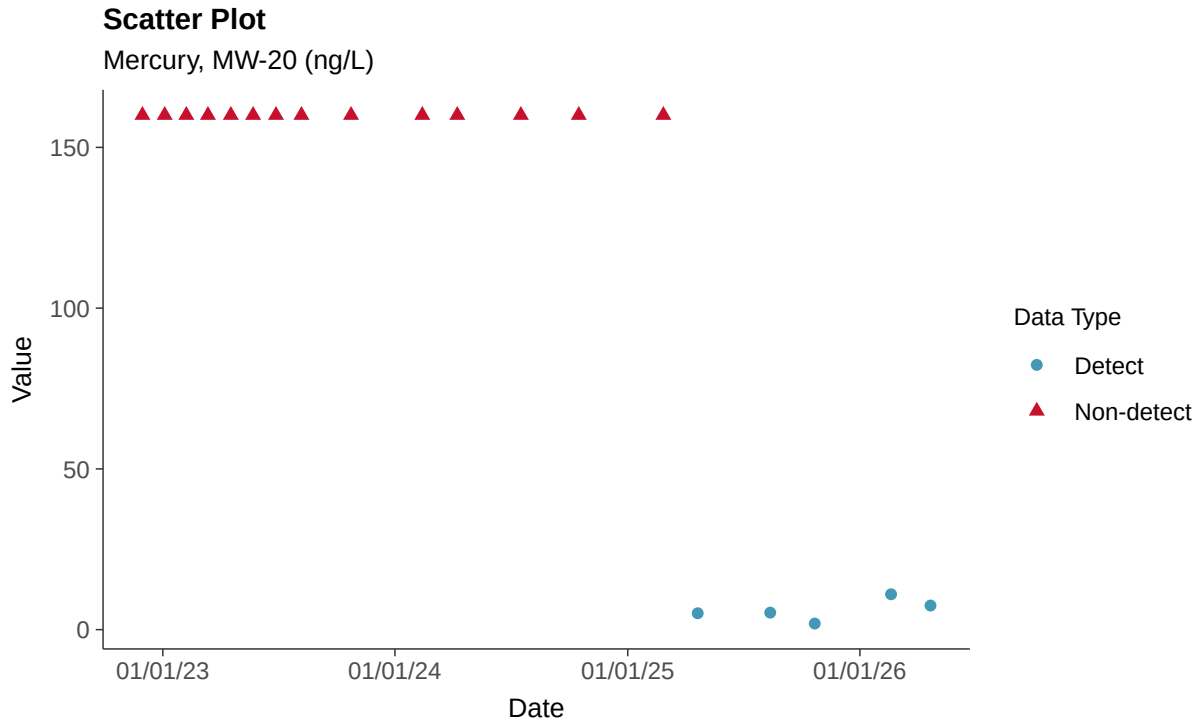
Lithium, MW-20 (mg/L)

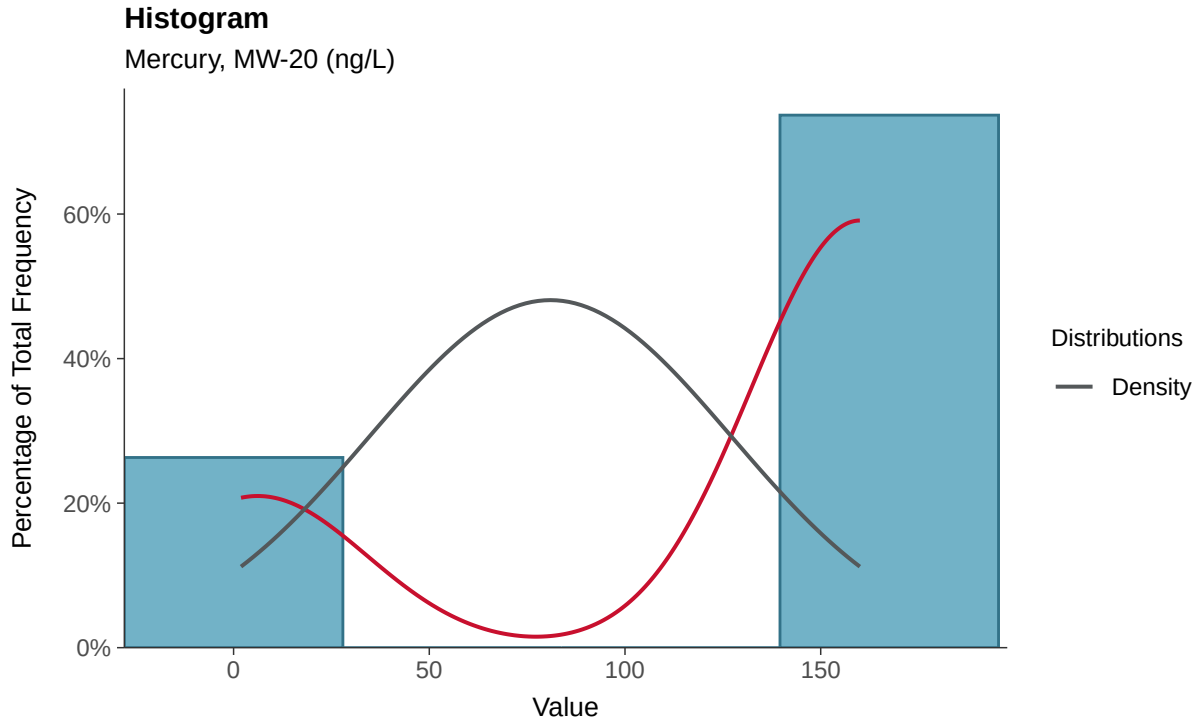



Trend Regression: Piecewise Linear-Linear
Lithium, MW-20 (mg/L)
Value
0.08
0.07
0.06
0.05
0.04
0.03
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Mercury, MW-20

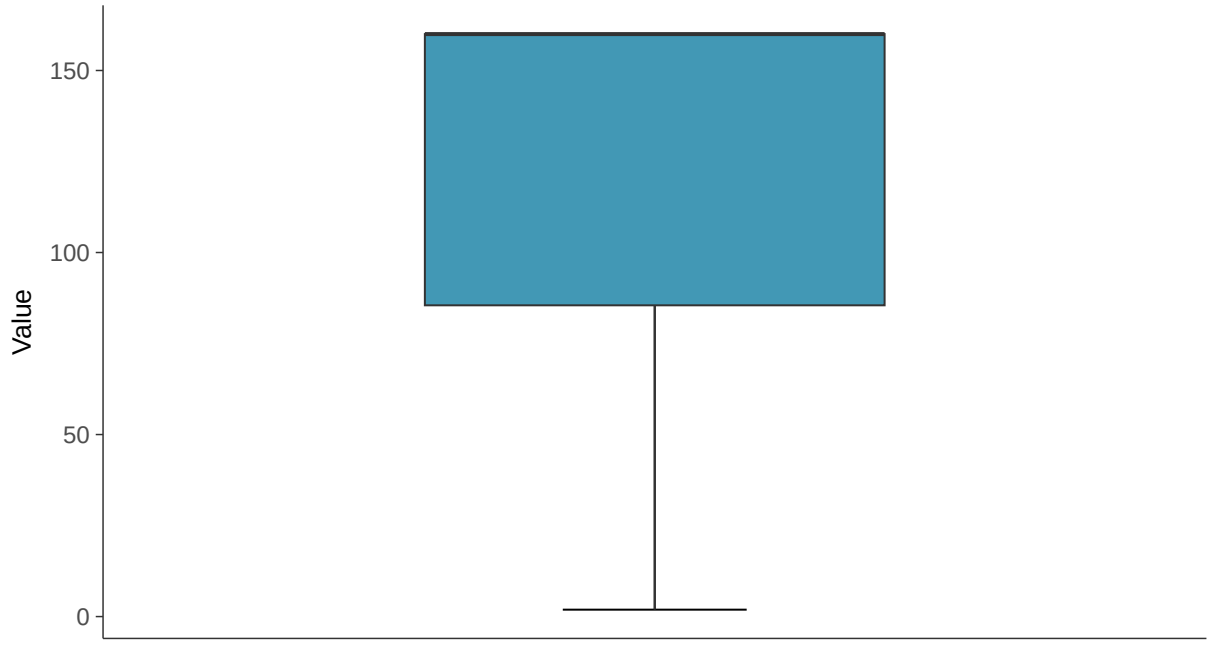
ID: 30_1_4_117





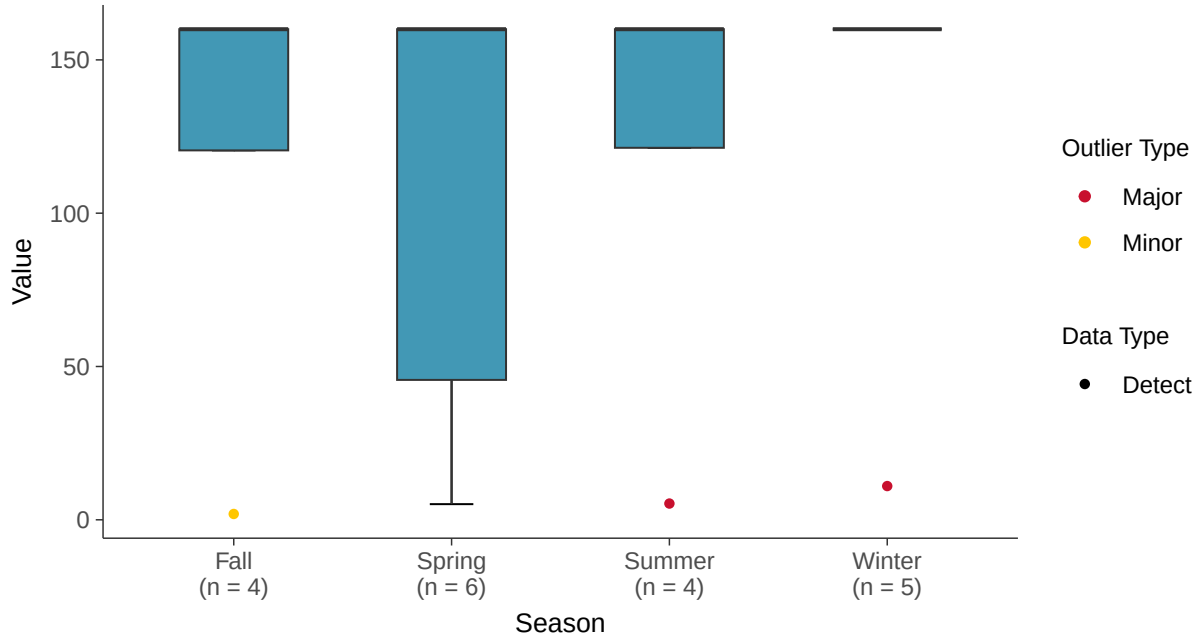
Boxplot

Mercury, MW-20 (ng/L)



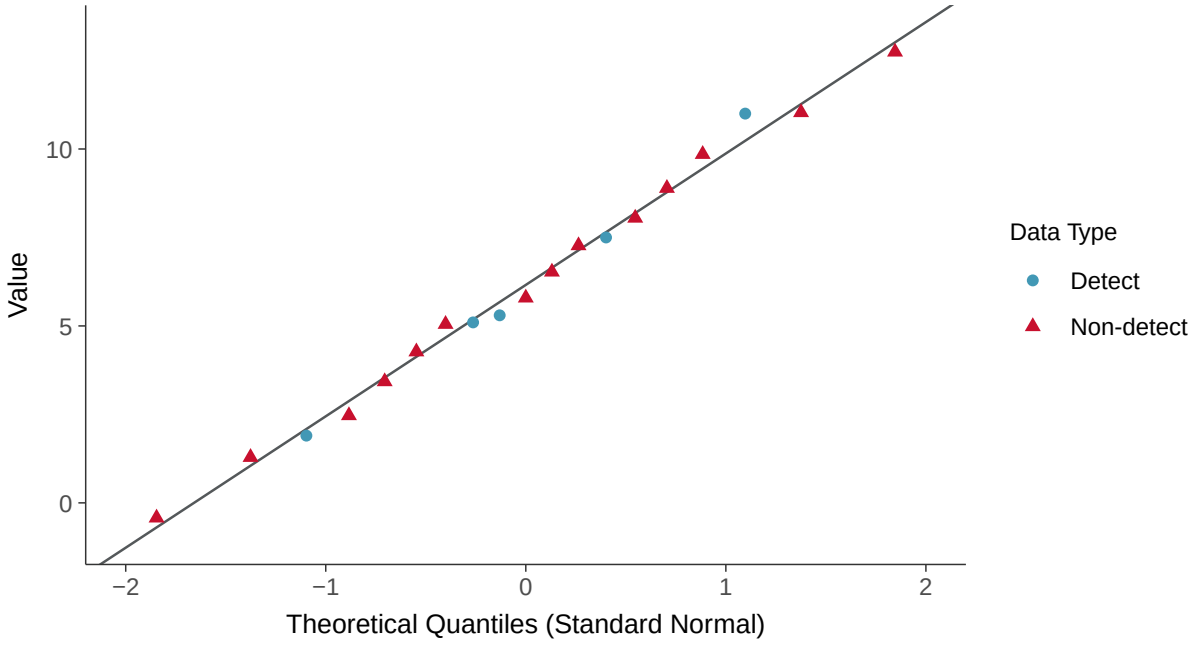
Boxplot by Season

Mercury, MW-20 (ng/L)



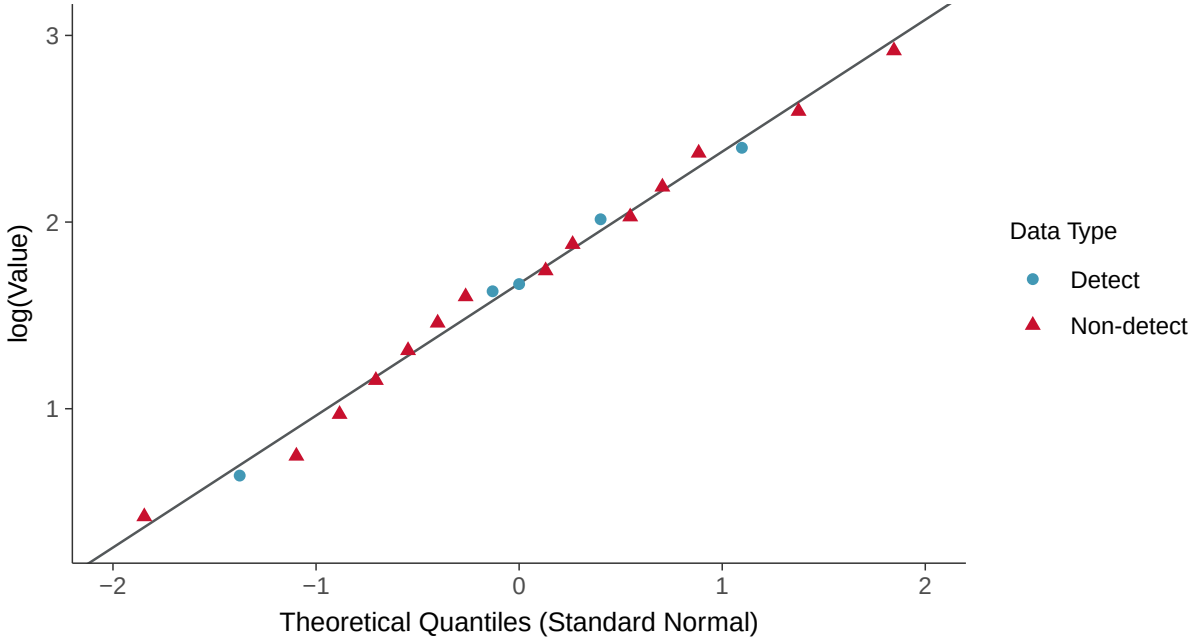
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-20 (ng/L)



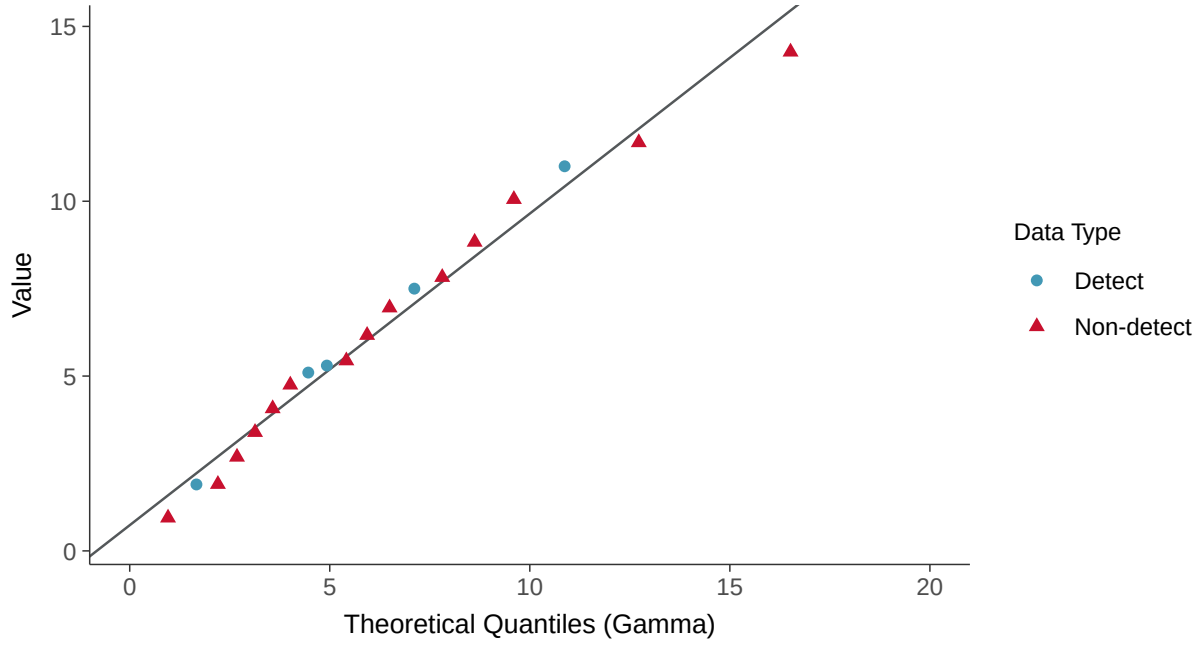
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-20 (ng/L)



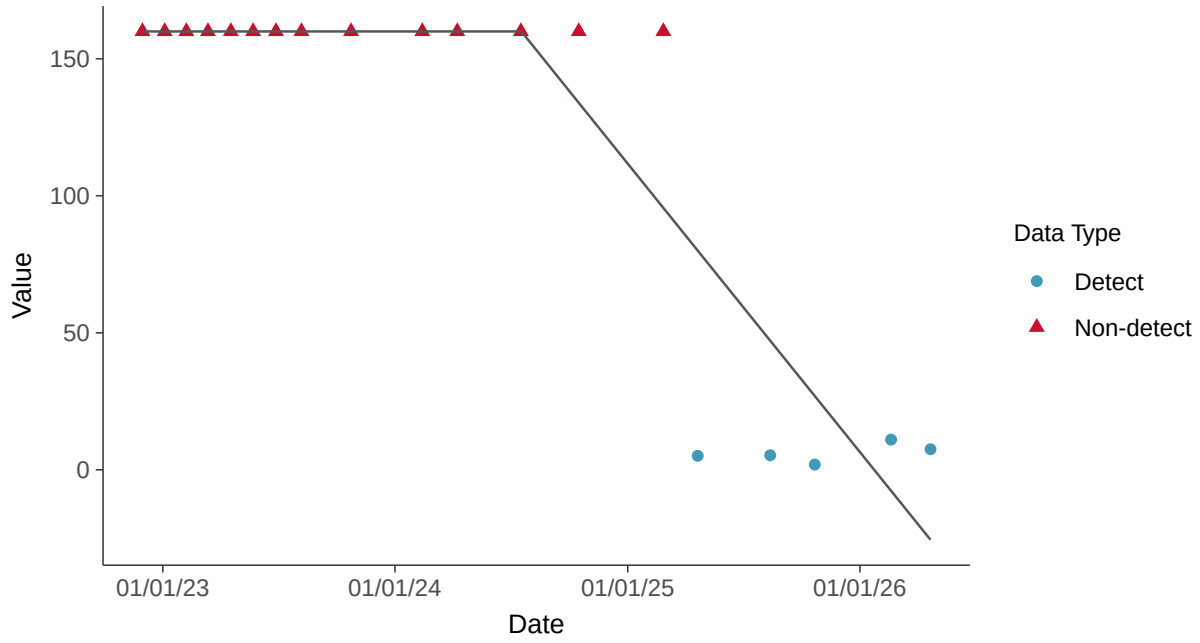
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-20 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-20 (ng/L)

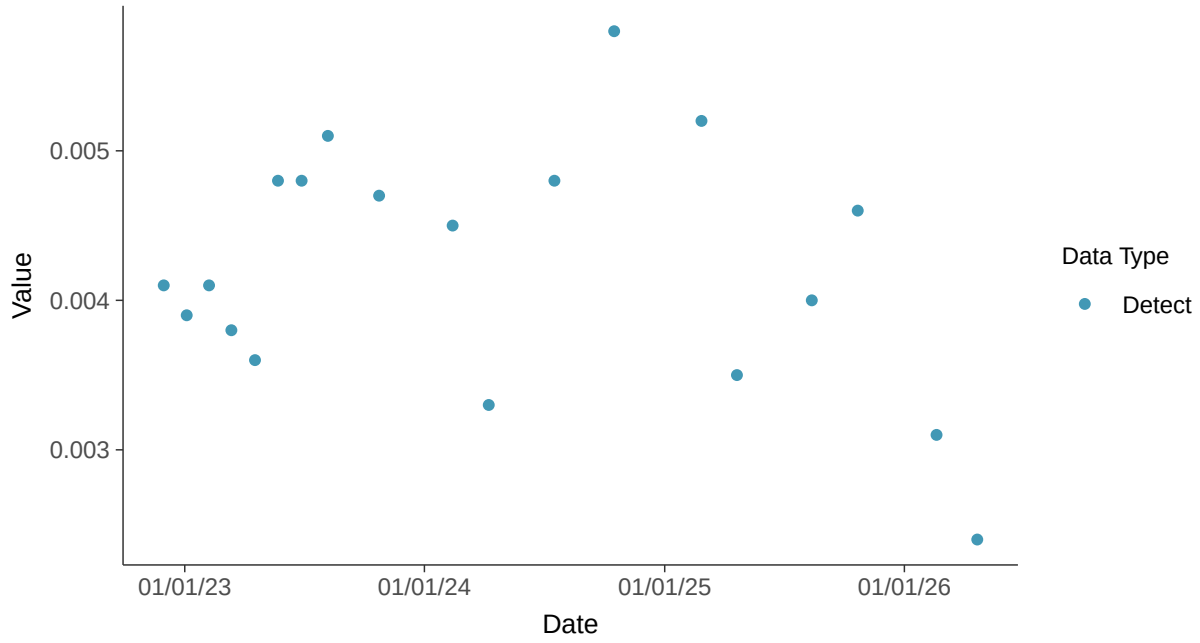


Appendix IV: Molybdenum, MW-20

ID: 30_1_4_118

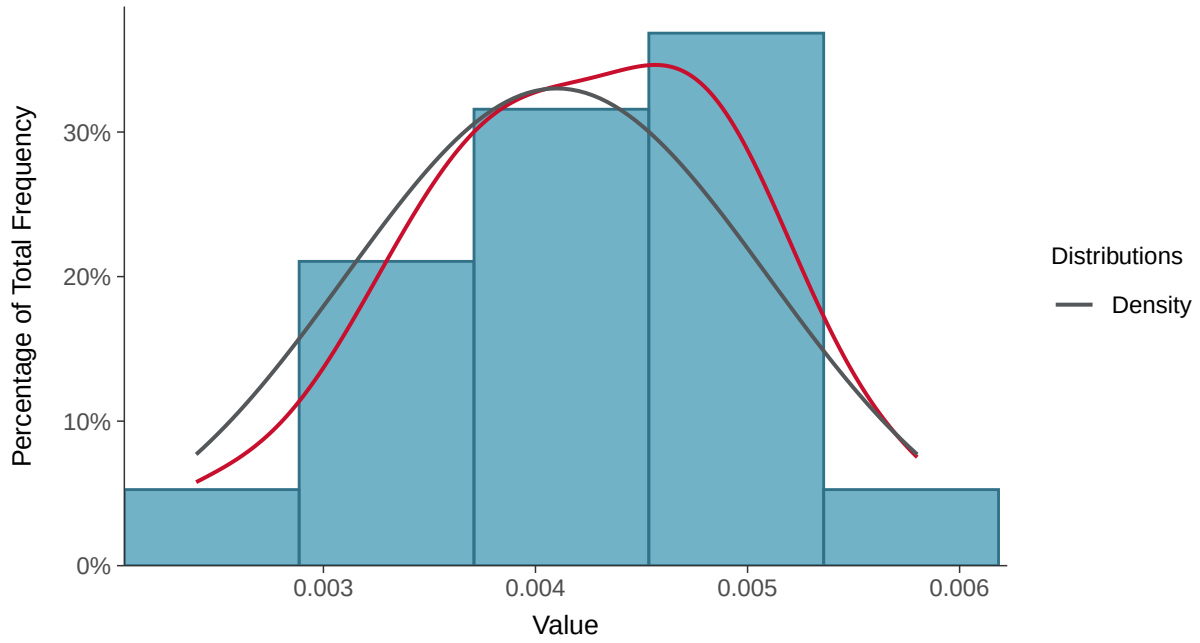
Scatter Plot

Molybdenum, MW-20 (mg/L)



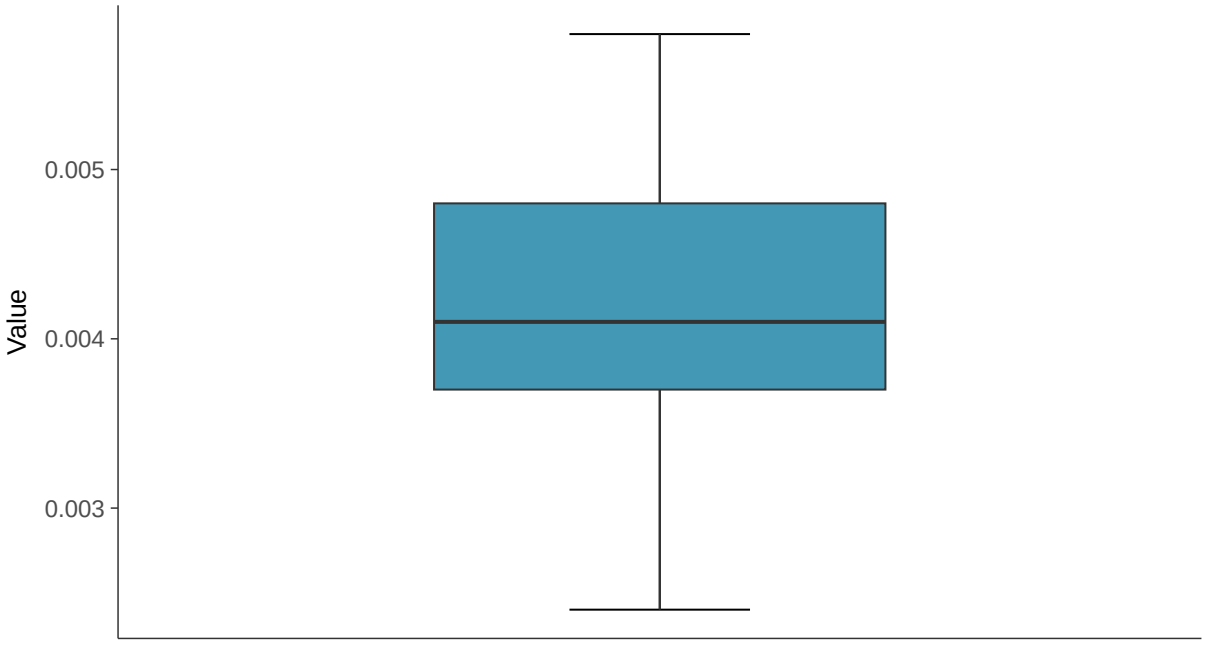
Histogram

Molybdenum, MW-20 (mg/L)



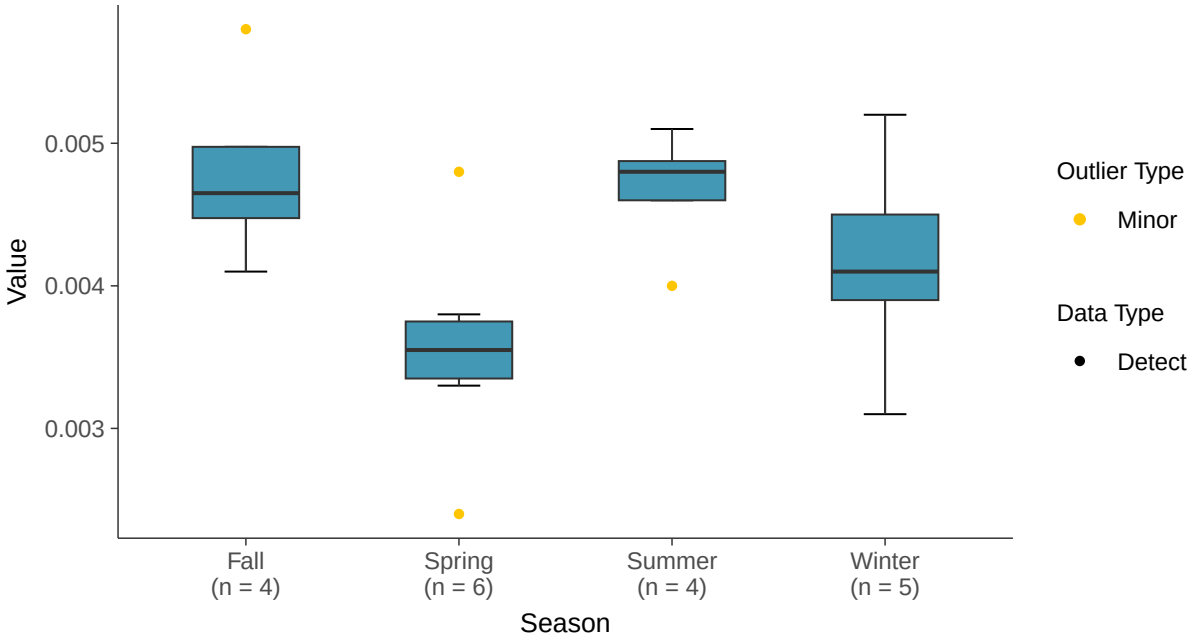
Boxplot

Molybdenum, MW-20 (mg/L)



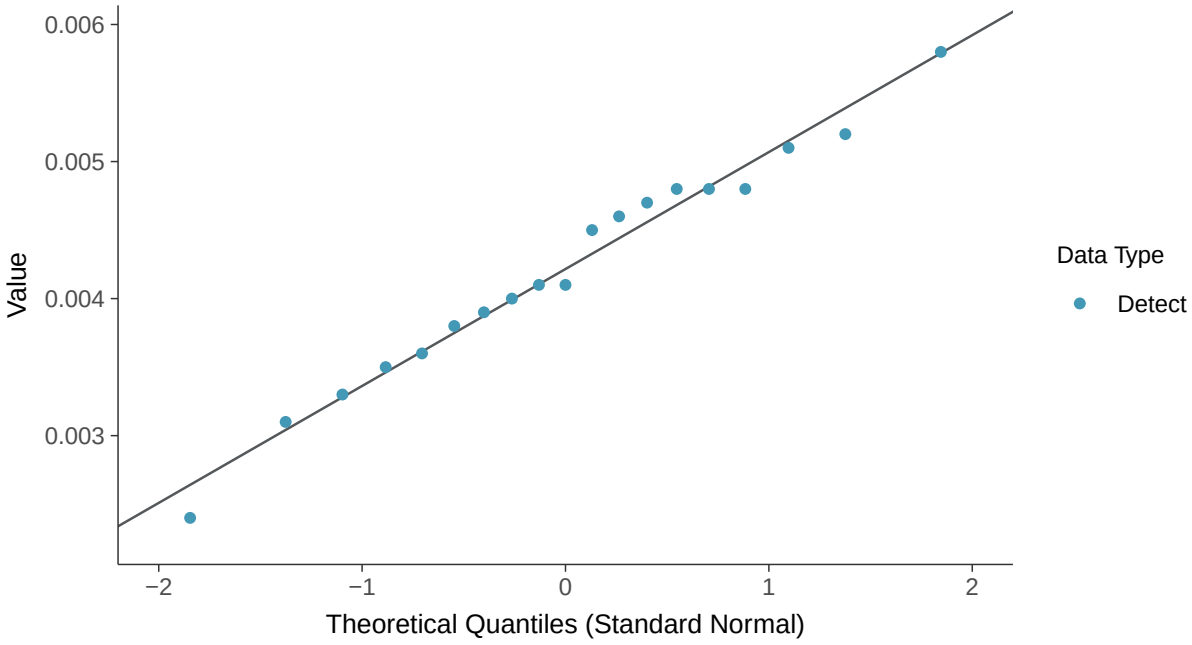
Boxplot by Season

Molybdenum, MW-20 (mg/L)



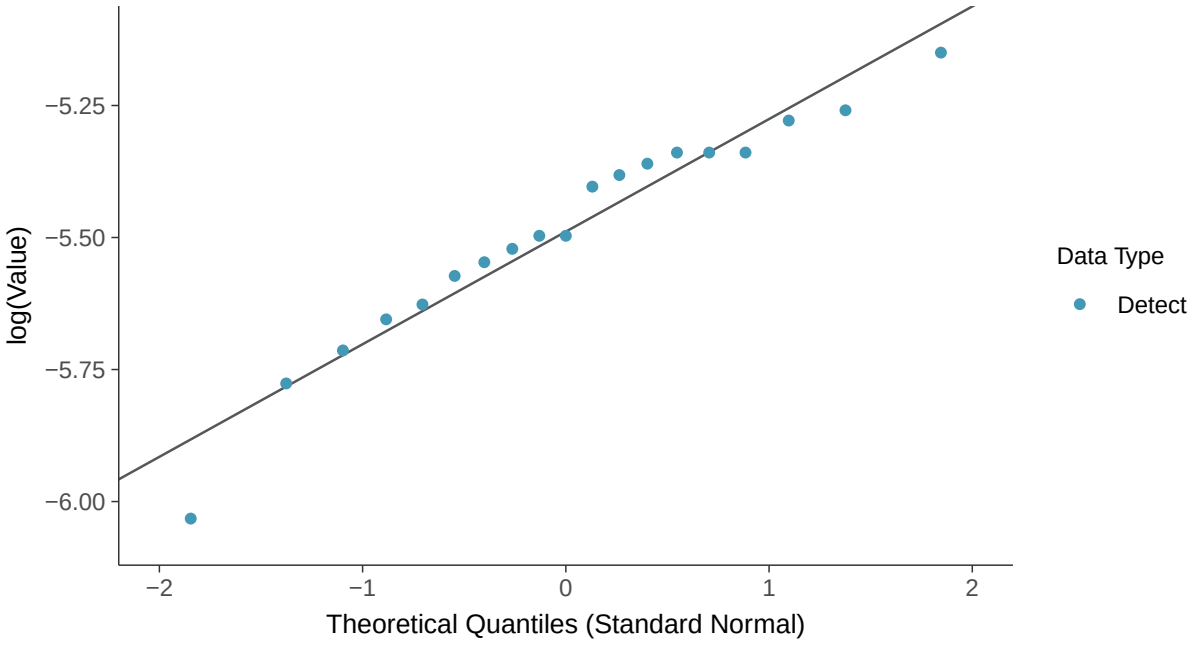
Normal Q-Q plot

Molybdenum, MW-20 (mg/L)



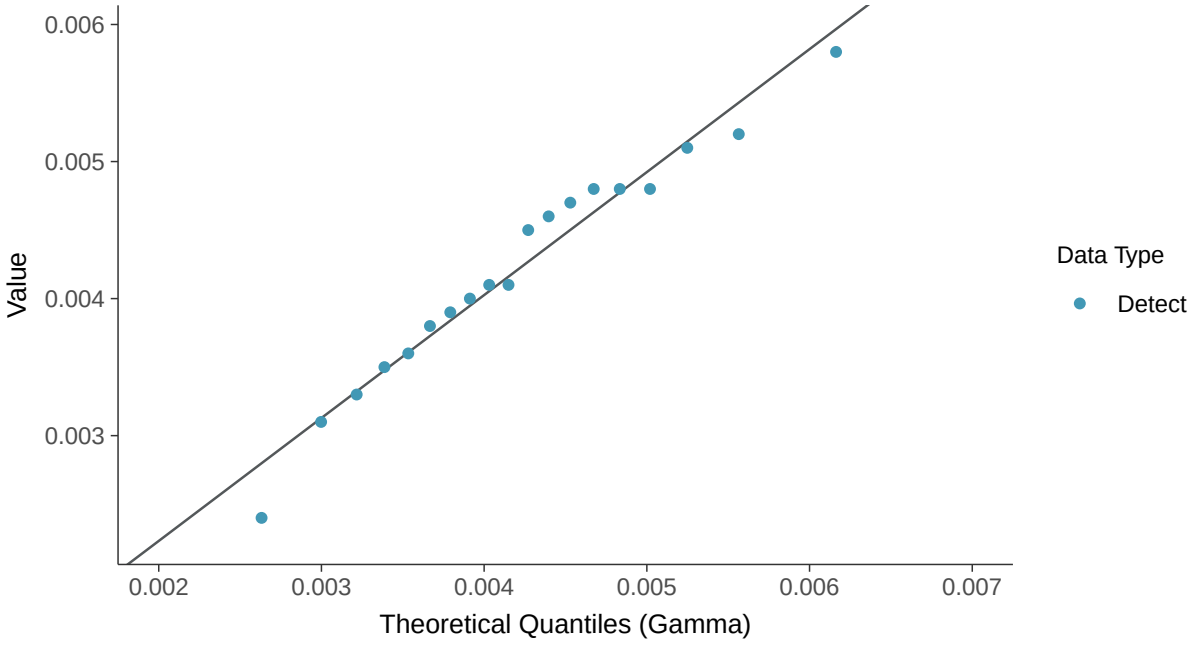
Lognormal Q-Q plot

Molybdenum, MW-20 (mg/L)



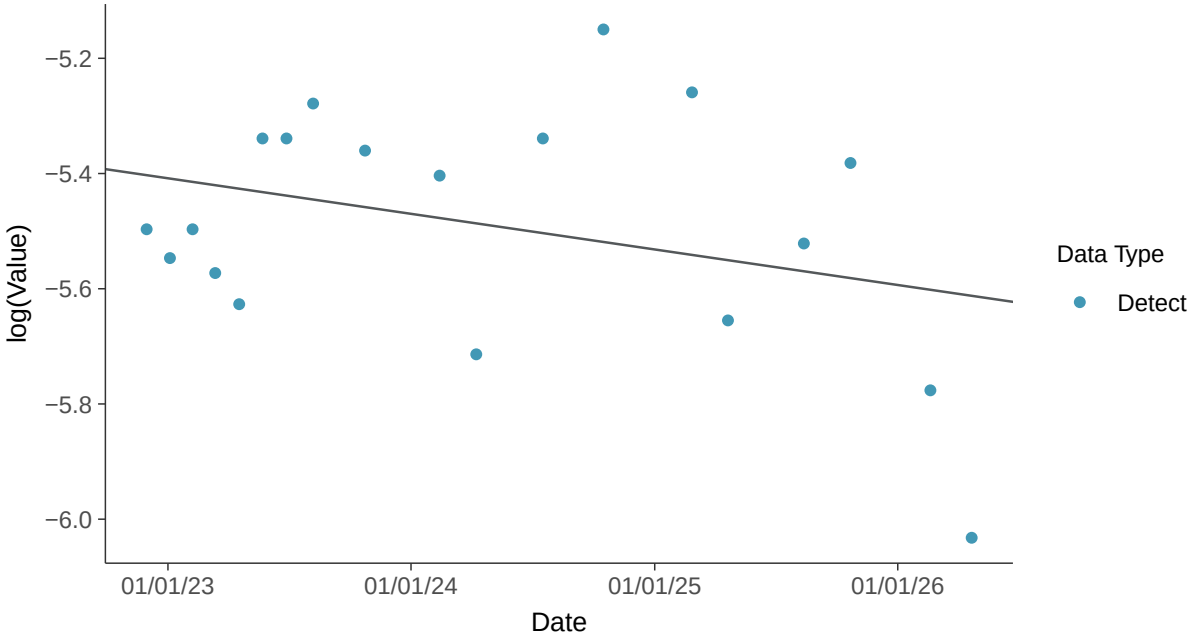
Gamma Q-Q plot

Molybdenum, MW-20 (mg/L)



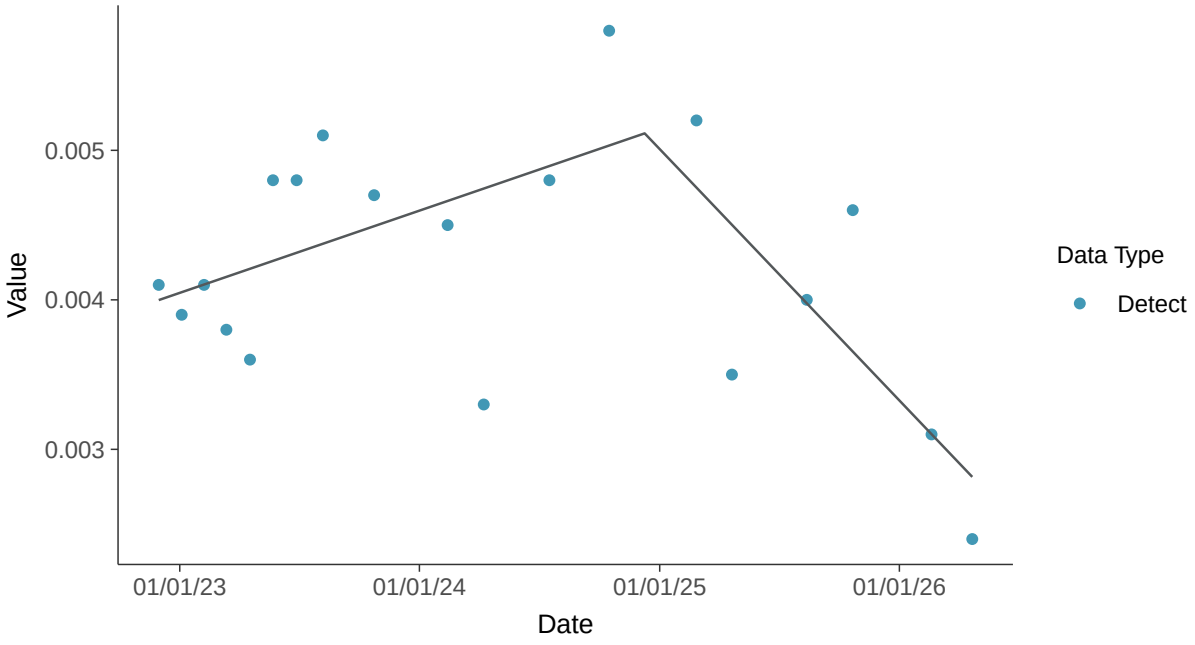
Trend Regression: Lognormal MLE

Molybdenum, MW-20 (mg/L)



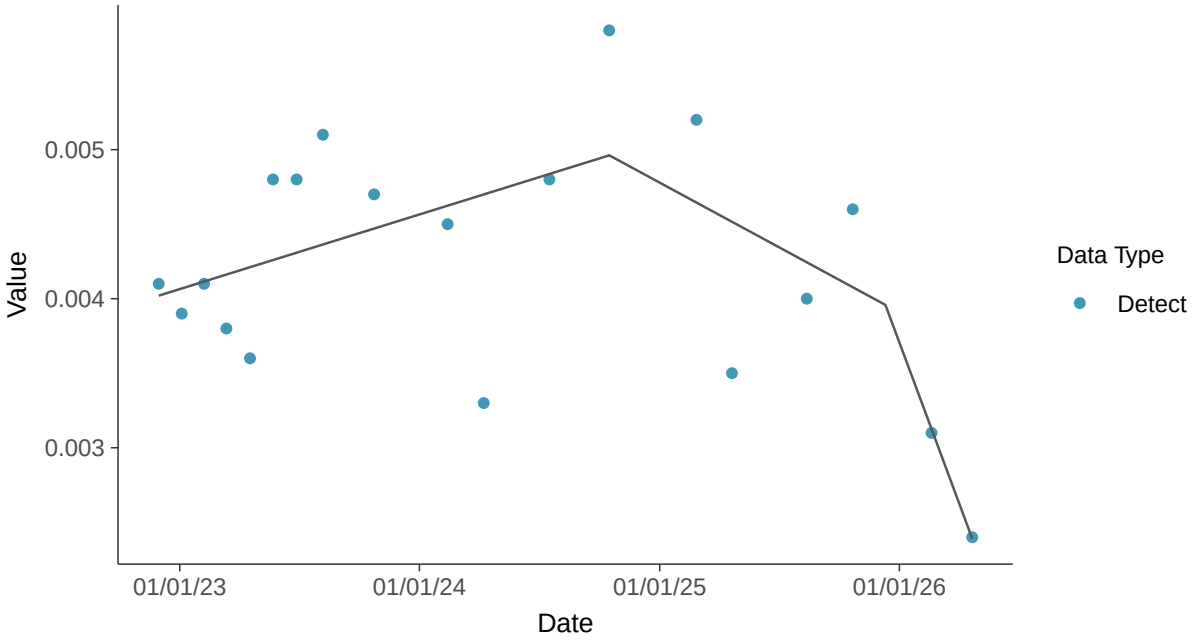
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-20 (mg/L)

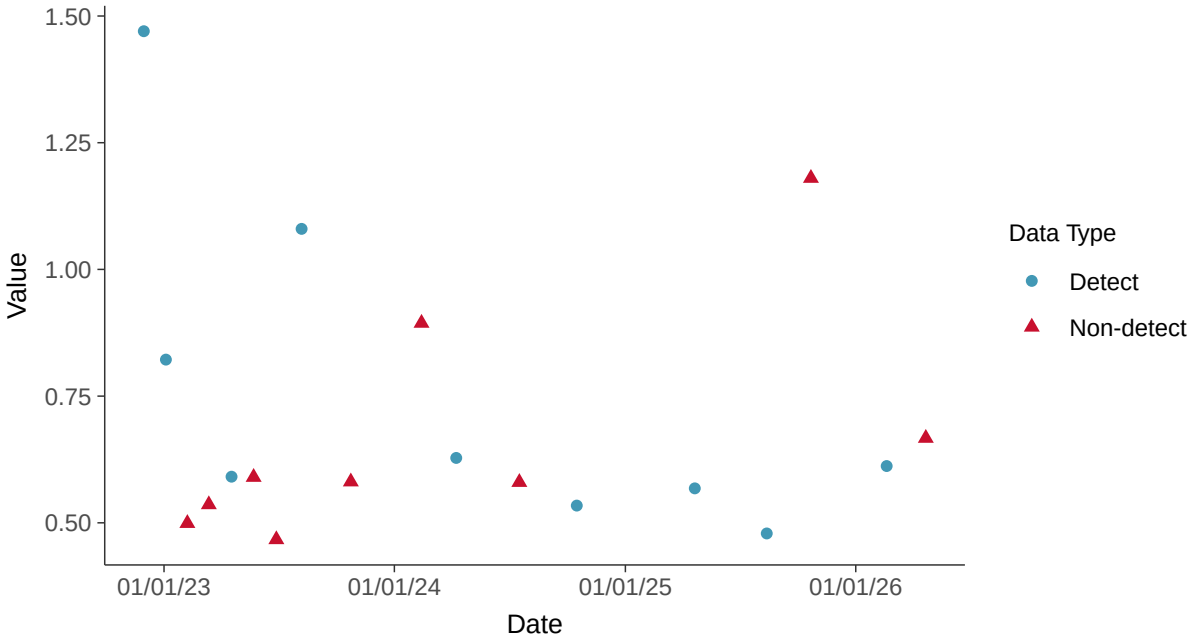


Appendix IV: Radium 226 and 228, MW-20

ID: 30_1_4_121

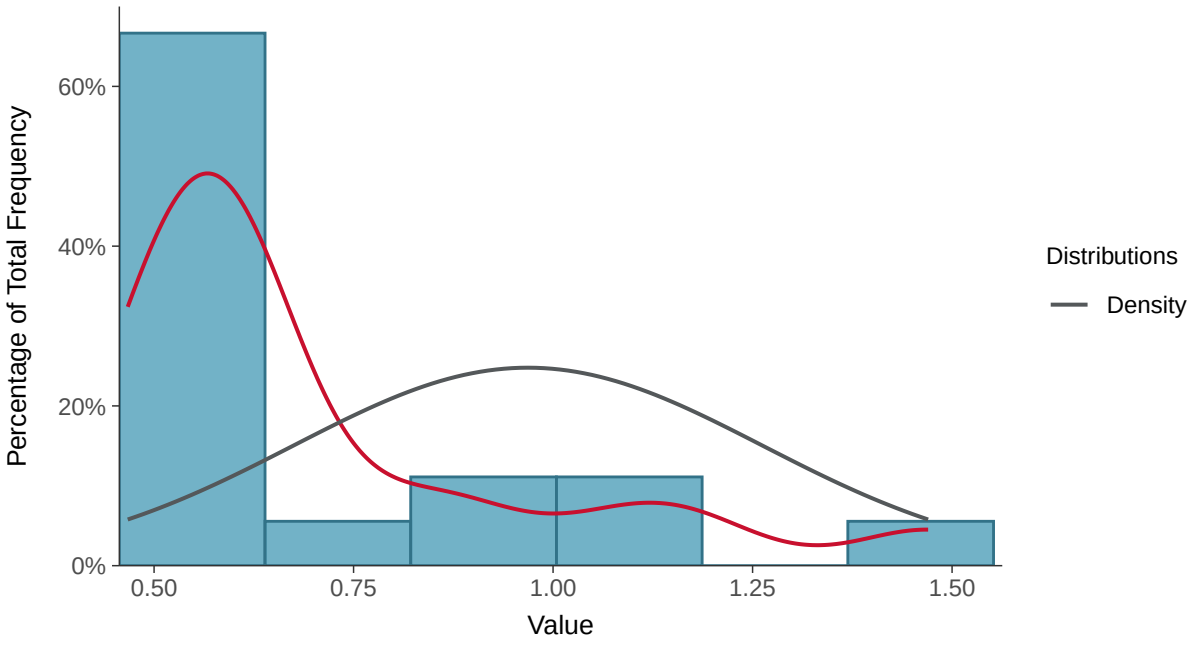
Scatter Plot

Radium 226 and 228, MW-20 (pCi/L)



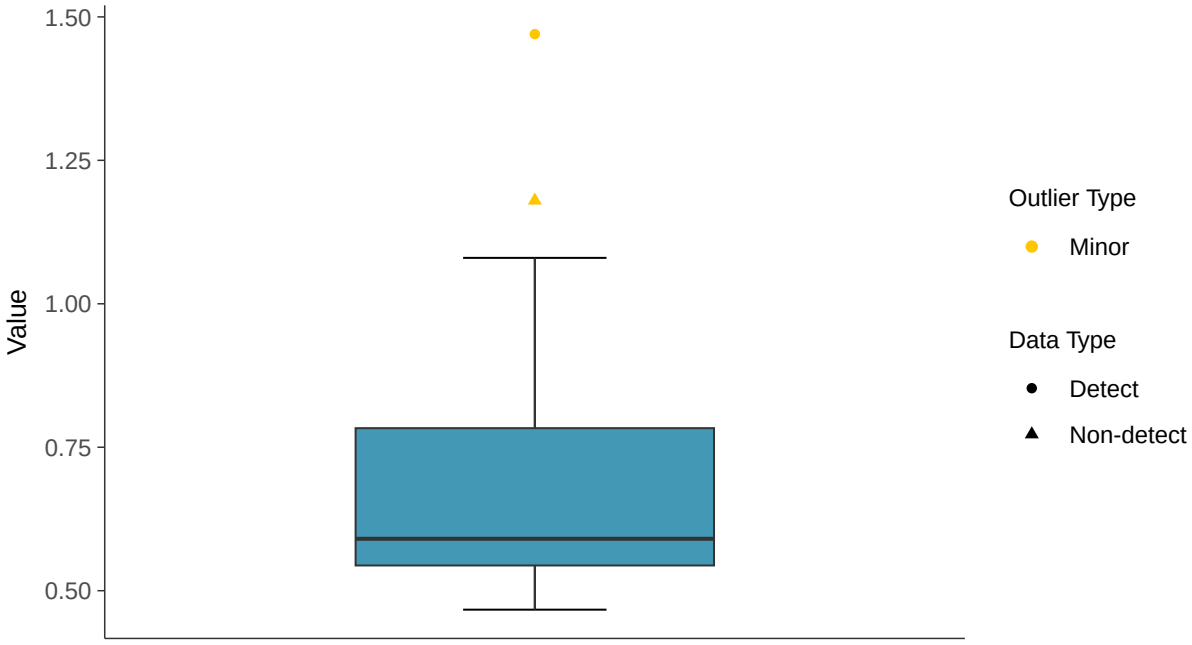
Histogram

Radium 226 and 228, MW-20 (pCi/L)



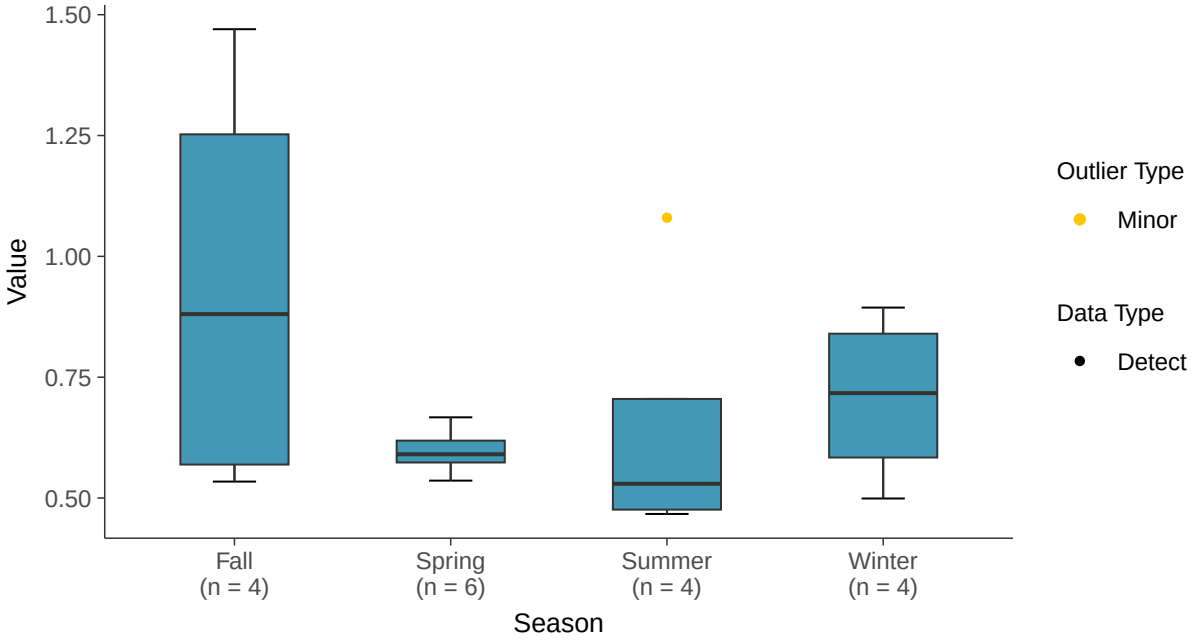
Boxplot

Radium 226 and 228, MW-20 (pCi/L)



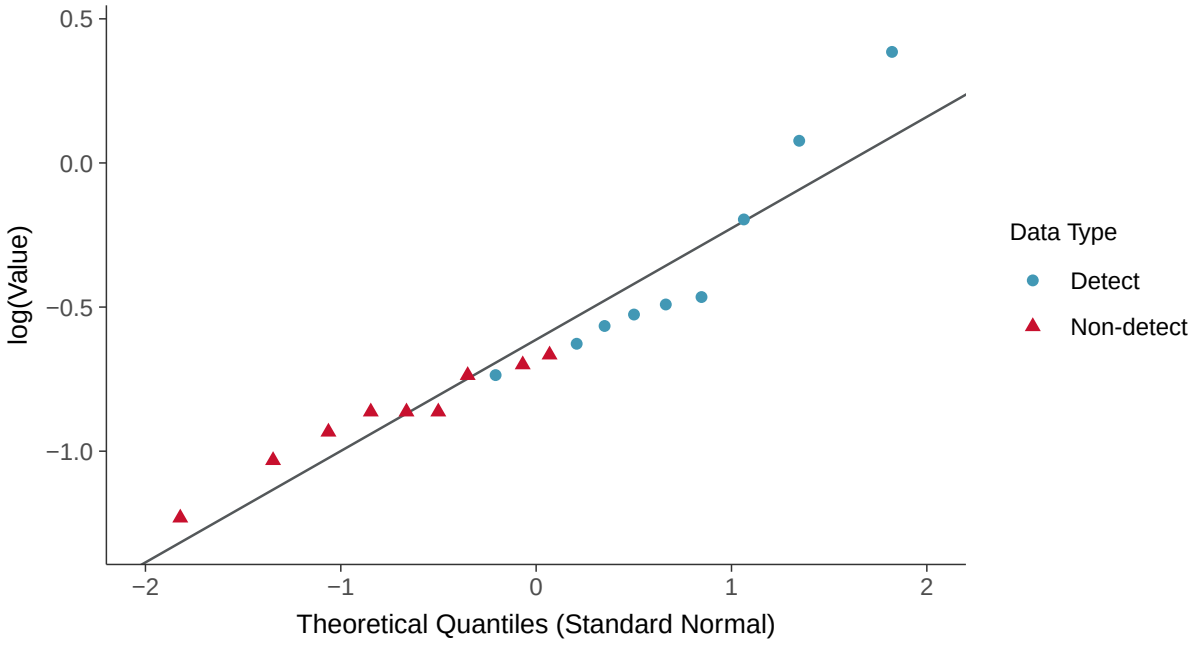
Boxplot by Season

Radium 226 and 228, MW-20 (pCi/L)



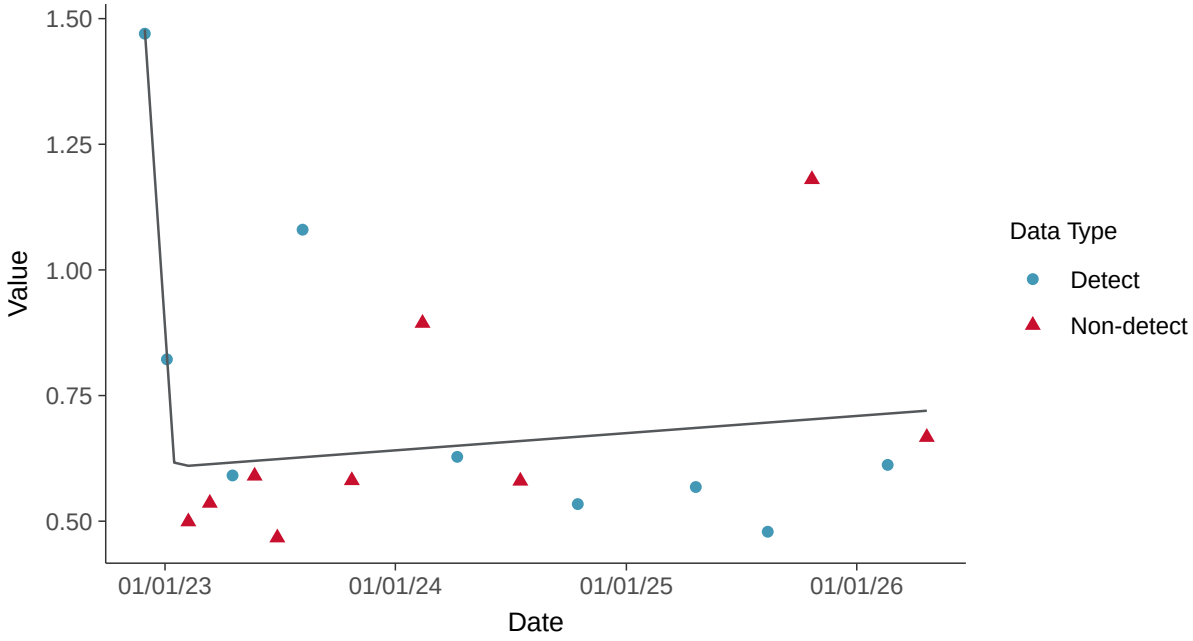
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-20 (pCi/L)



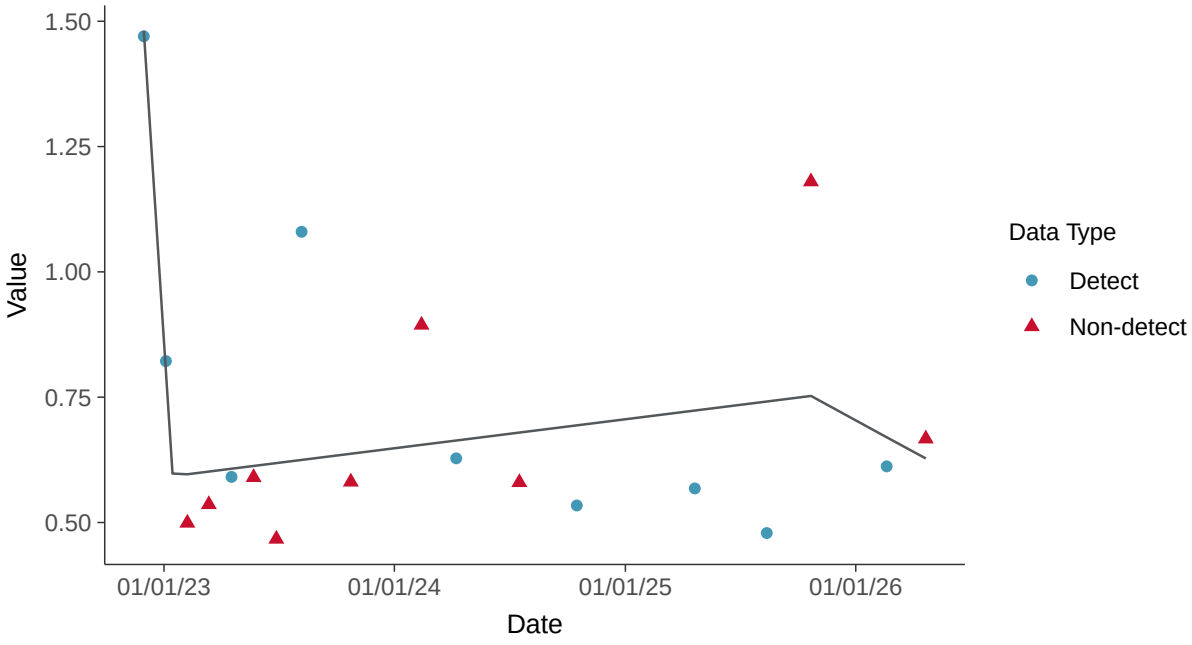
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-20 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-20 (pCi/L)

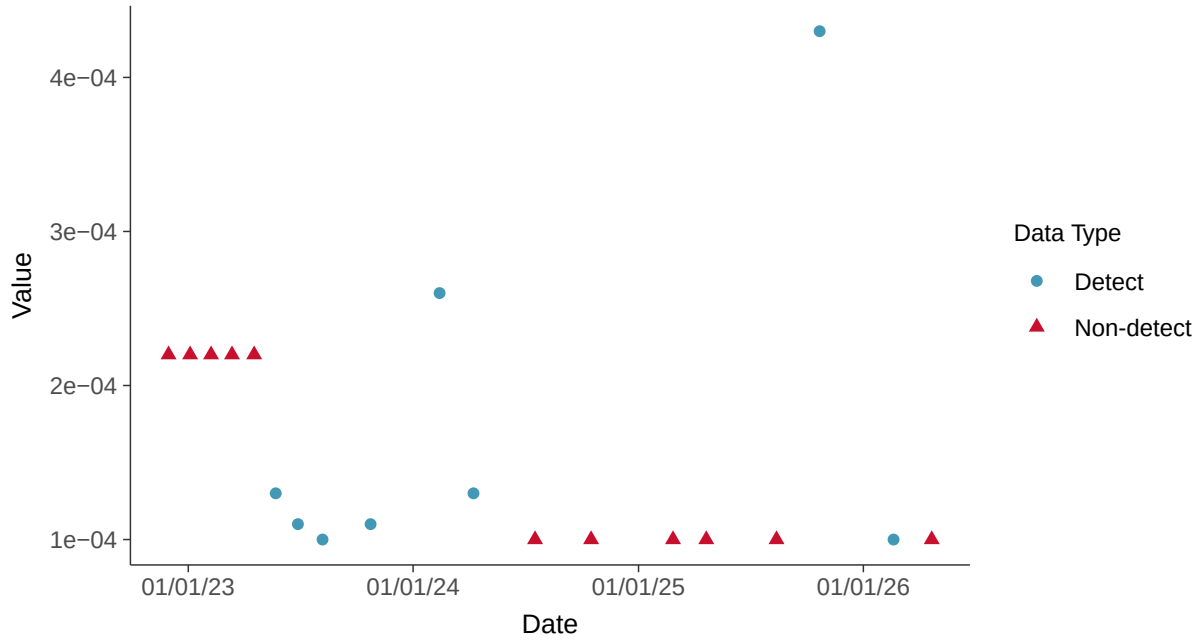


Appendix IV: Selenium, MW-20

ID: 30_1_4_122

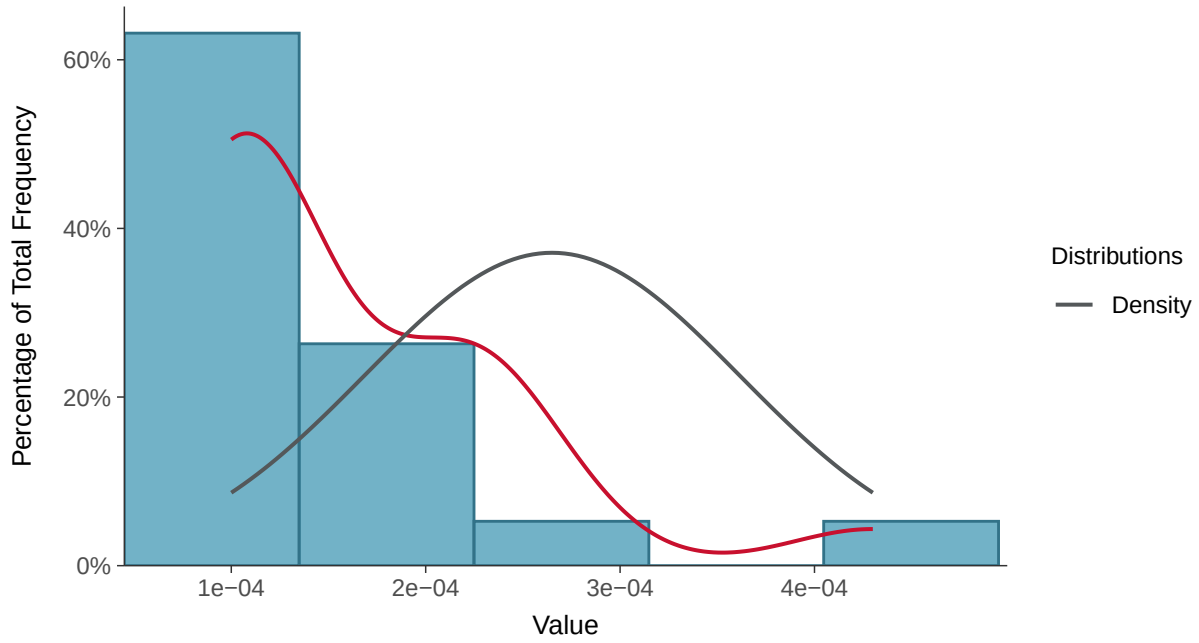
Scatter Plot

Selenium, MW-20 (mg/L)



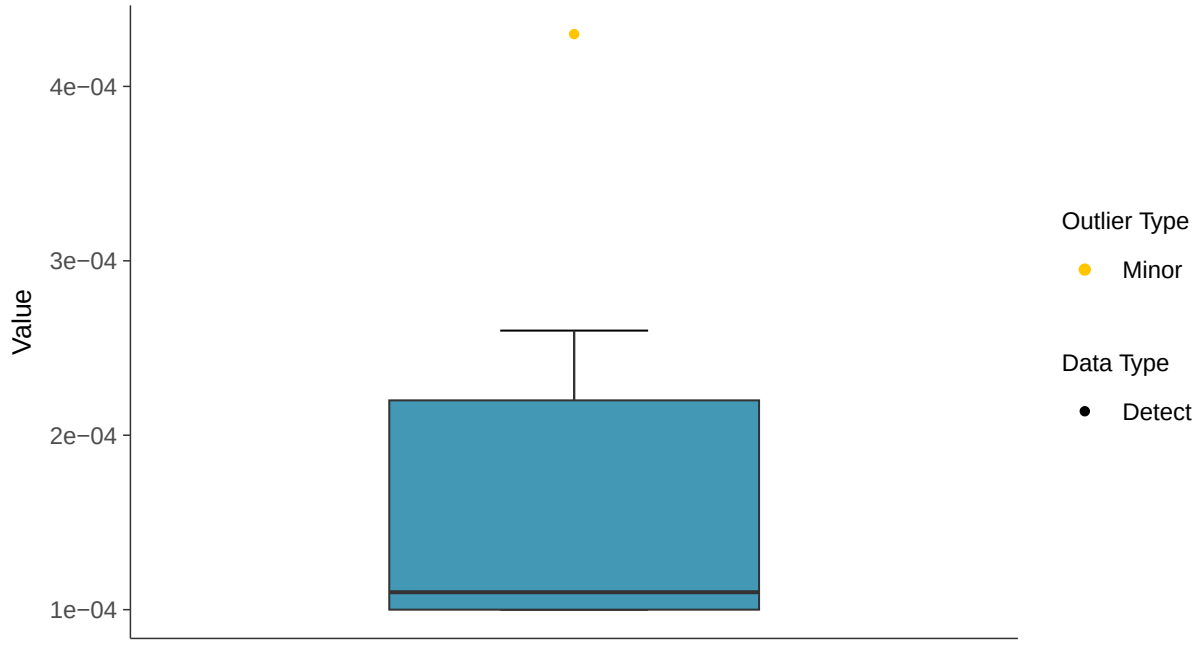
Histogram

Selenium, MW-20 (mg/L)



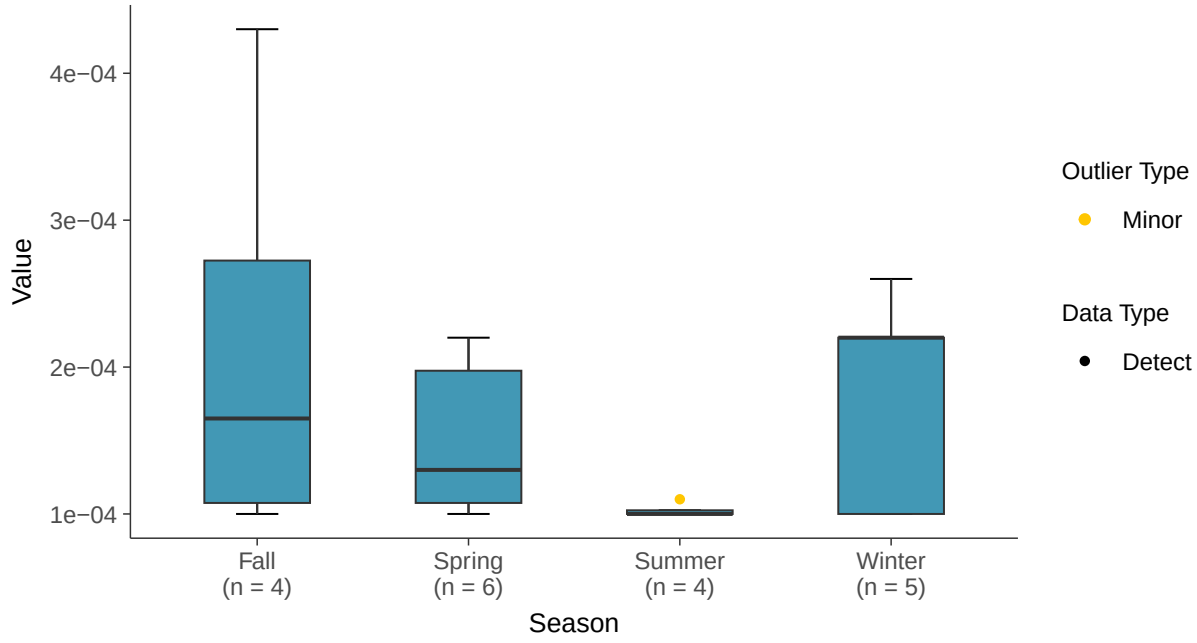
Boxplot

Selenium, MW-20 (mg/L)



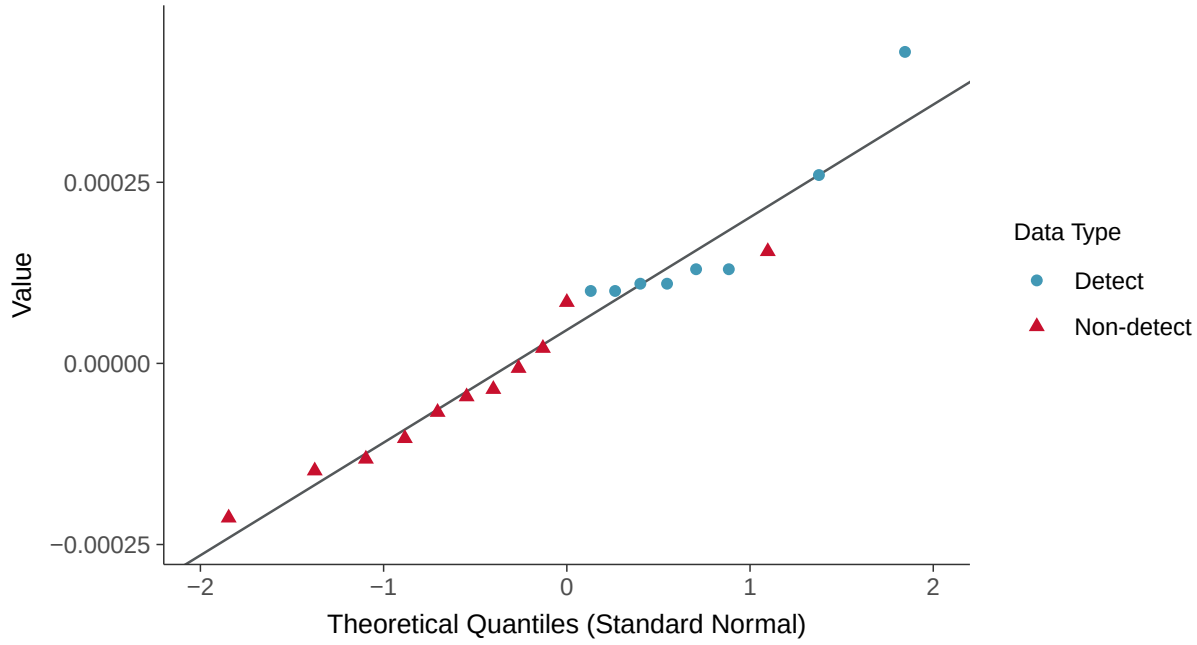
Boxplot by Season

Selenium, MW-20 (mg/L)



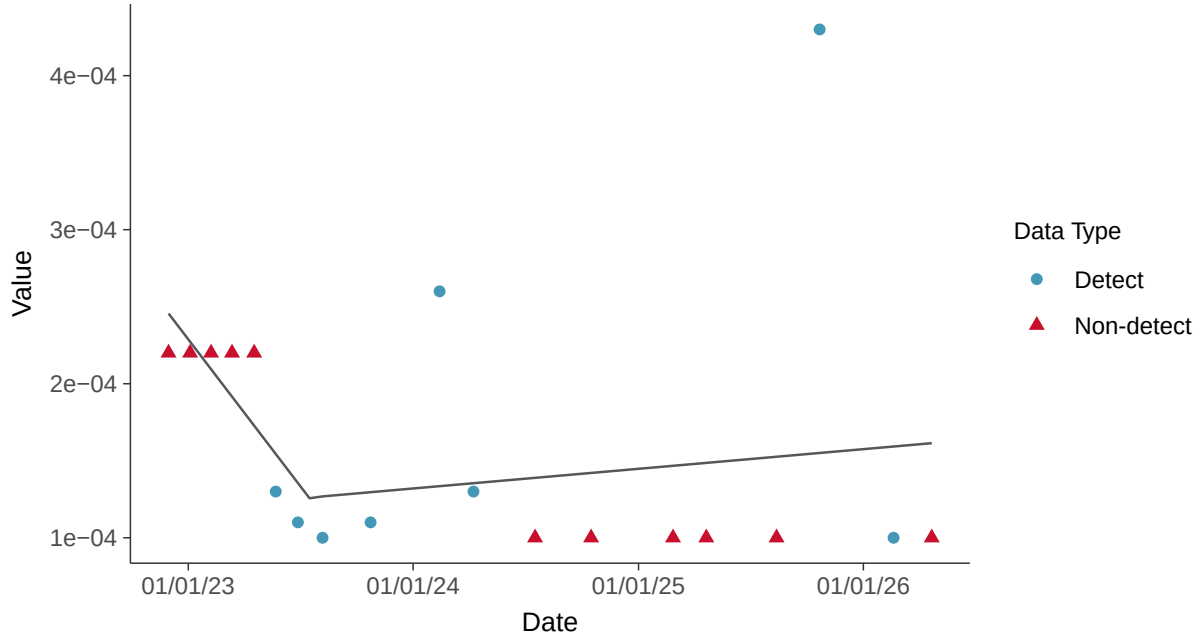
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-20 (mg/L)



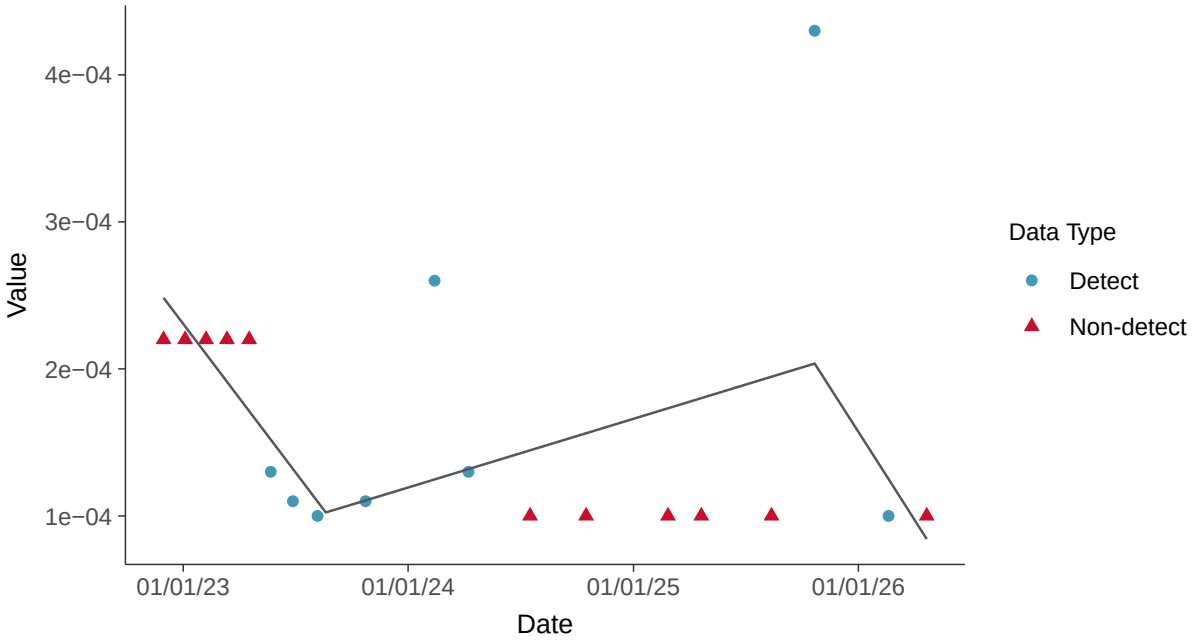
Trend Regression: Piecewise Linear-Linear

Selenium, MW-20 (mg/L)



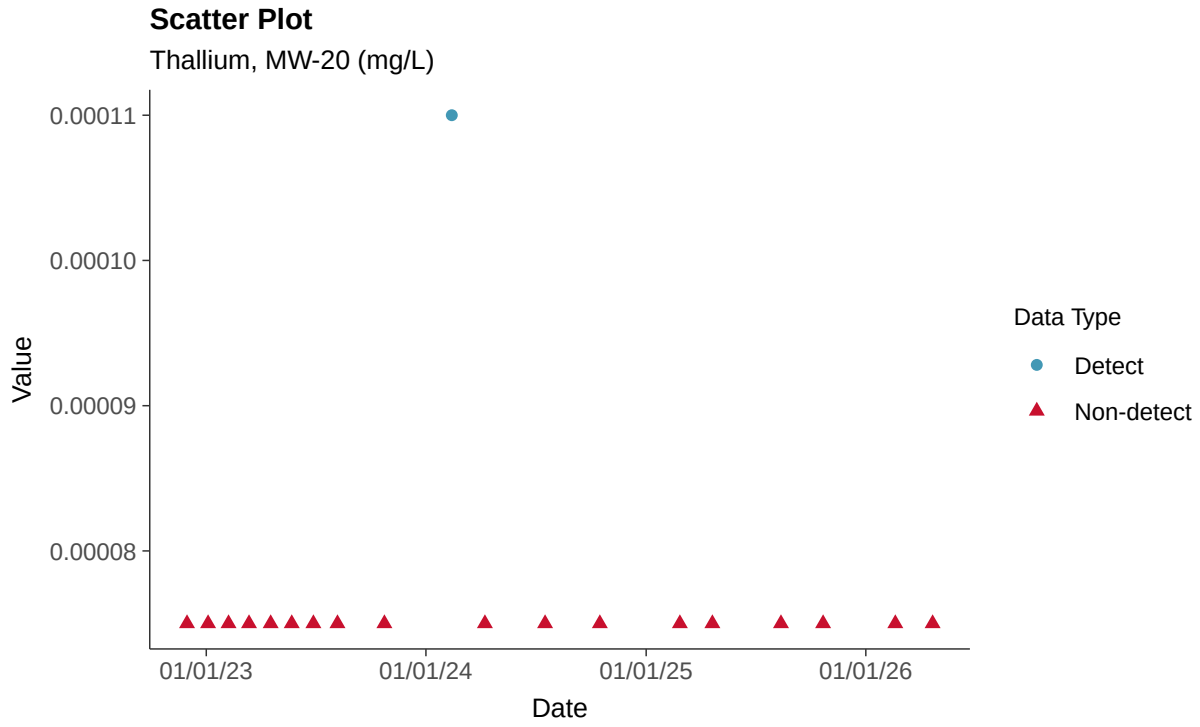
Trend Regression: Piecewise Linear-Linear-Linear

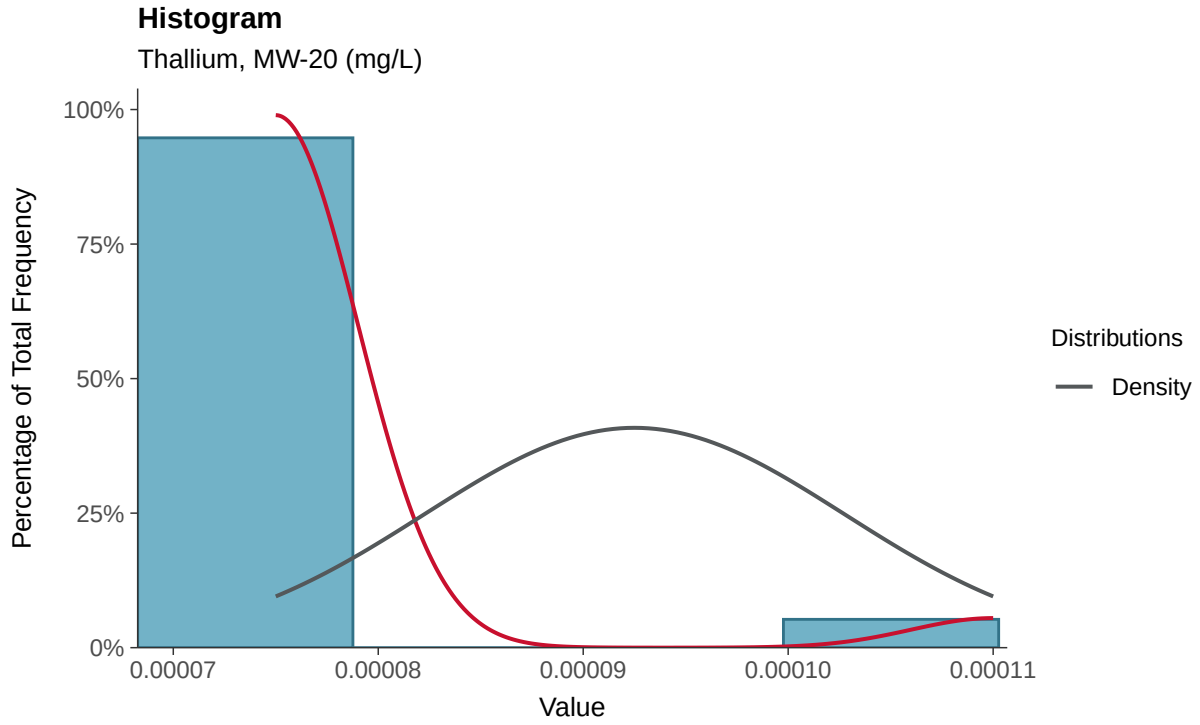
Selenium, MW-20 (mg/L)



Appendix IV: Thallium, MW-20

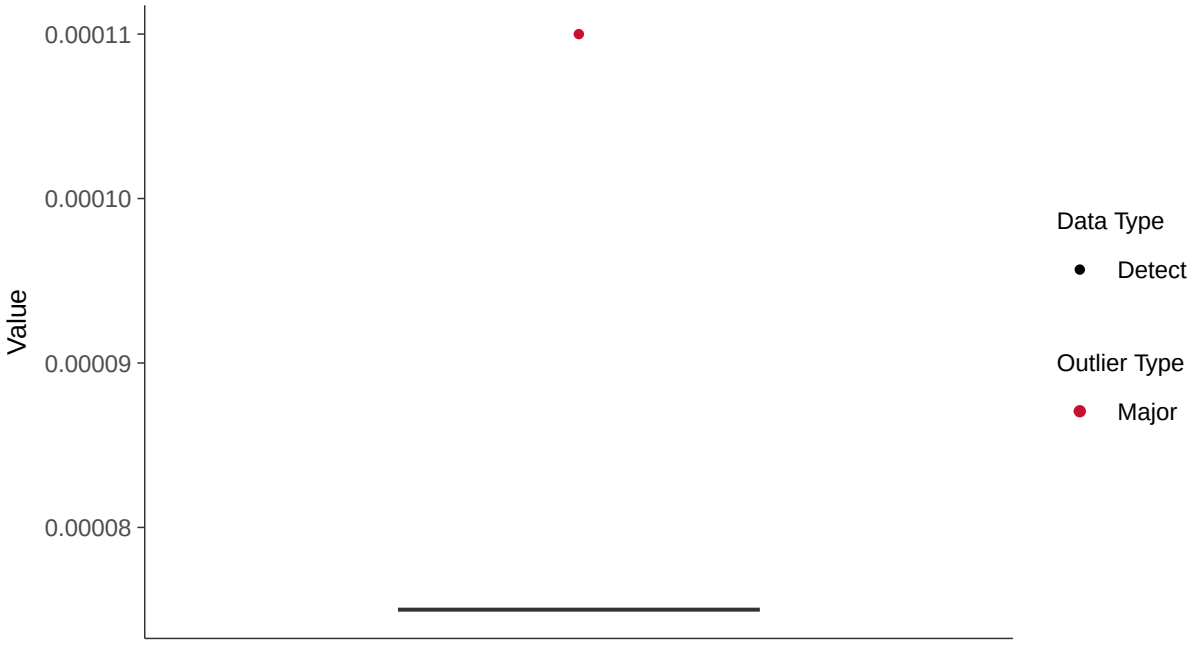
ID: 30_1_4_125





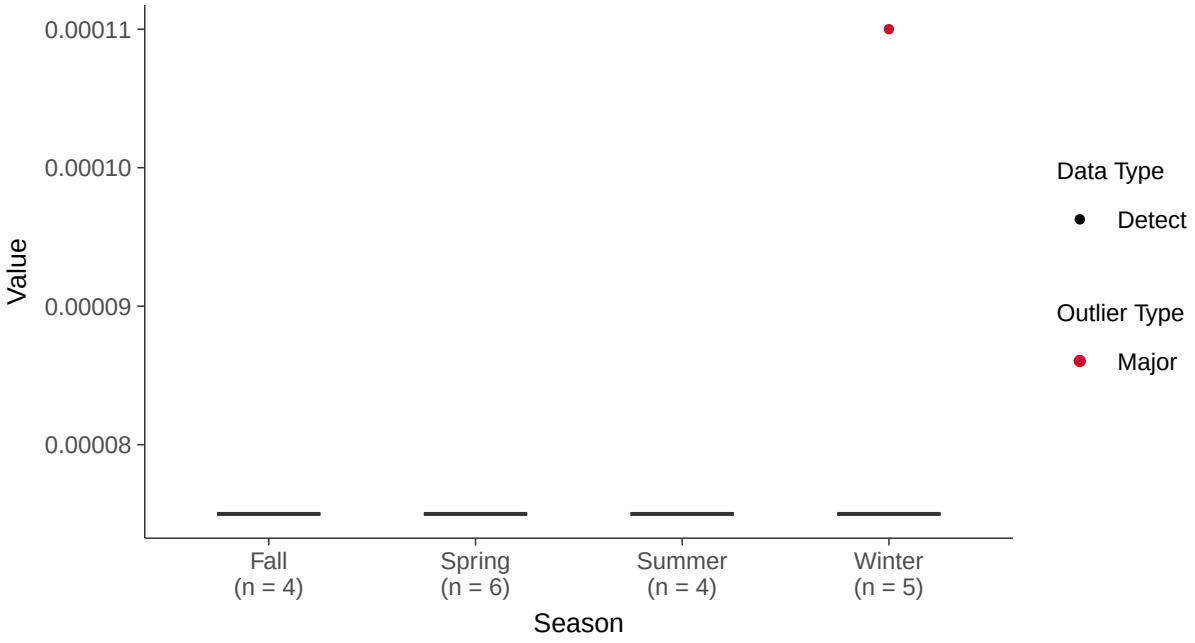
Boxplot

Thallium, MW-20 (mg/L)



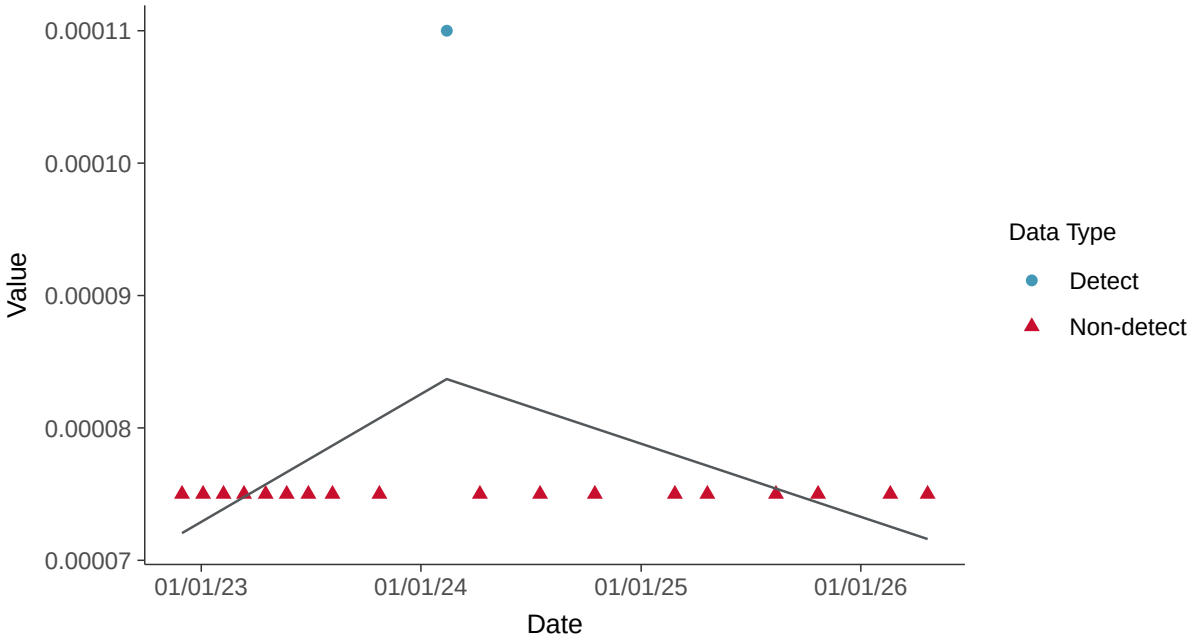
Boxplot by Season

Thallium, MW-20 (mg/L)



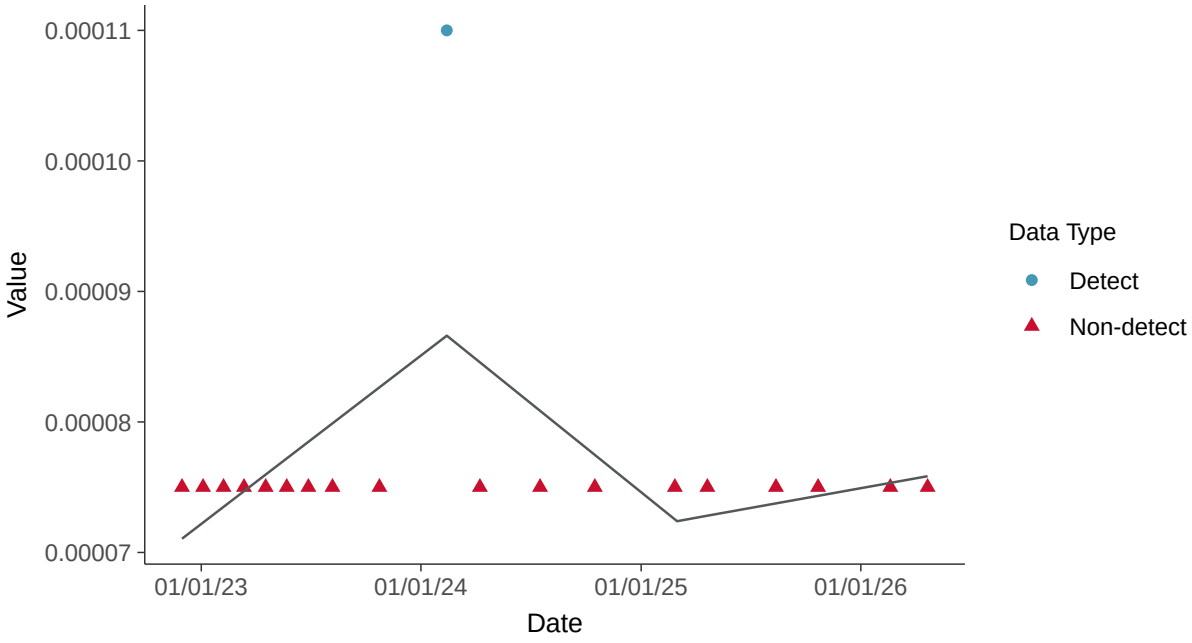
Trend Regression: Piecewise Linear-Linear

Thallium, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-20 (mg/L)

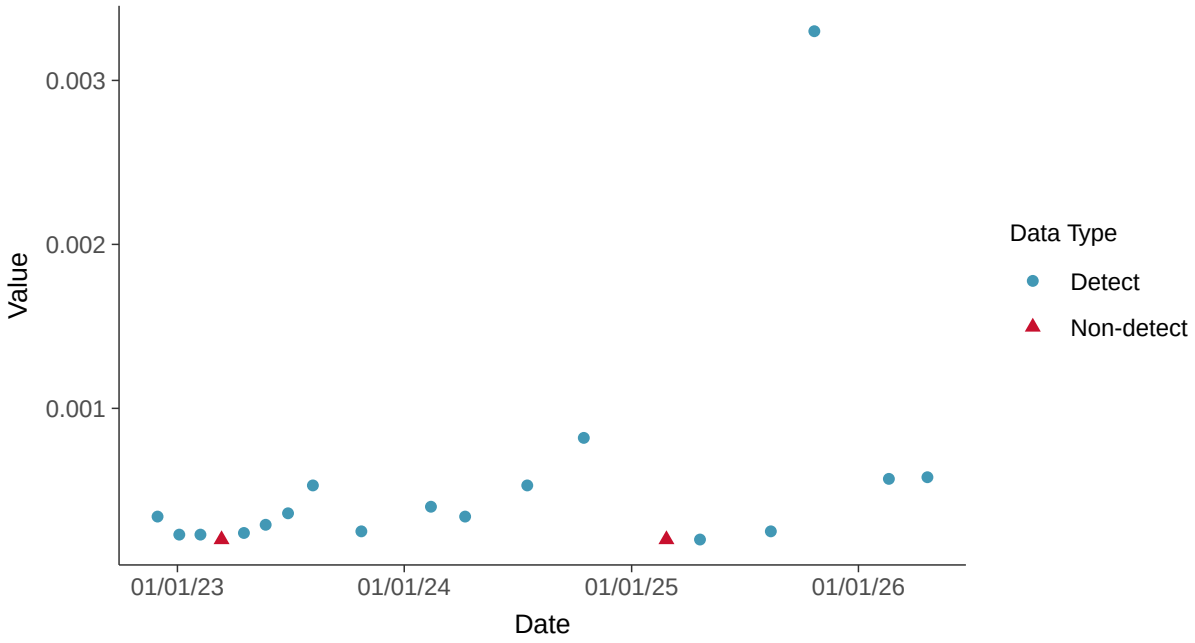


Part 115: Copper, MW-20

ID: 30_1_5_111

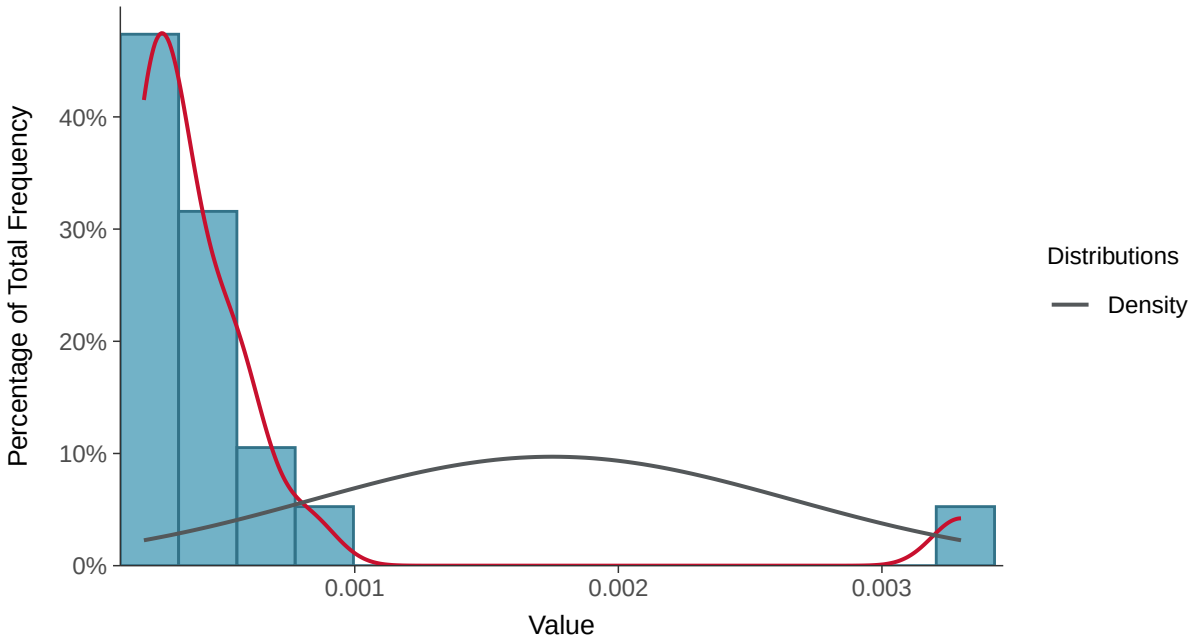
Scatter Plot

Copper, MW-20 (mg/L)



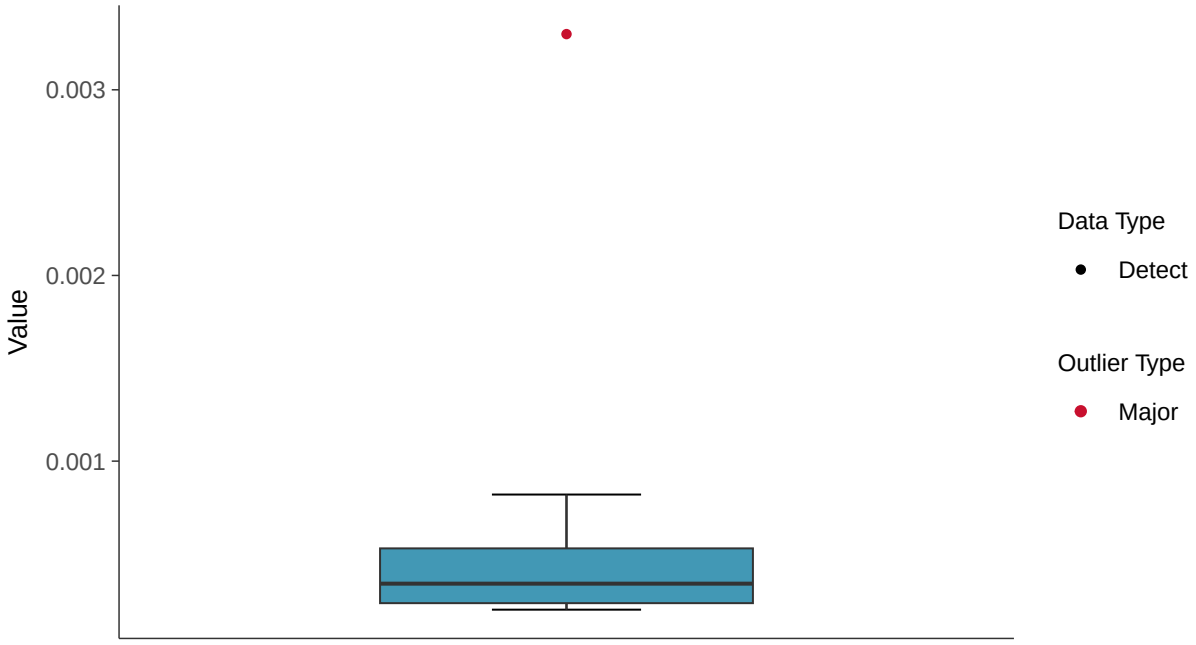
Histogram

Copper, MW-20 (mg/L)



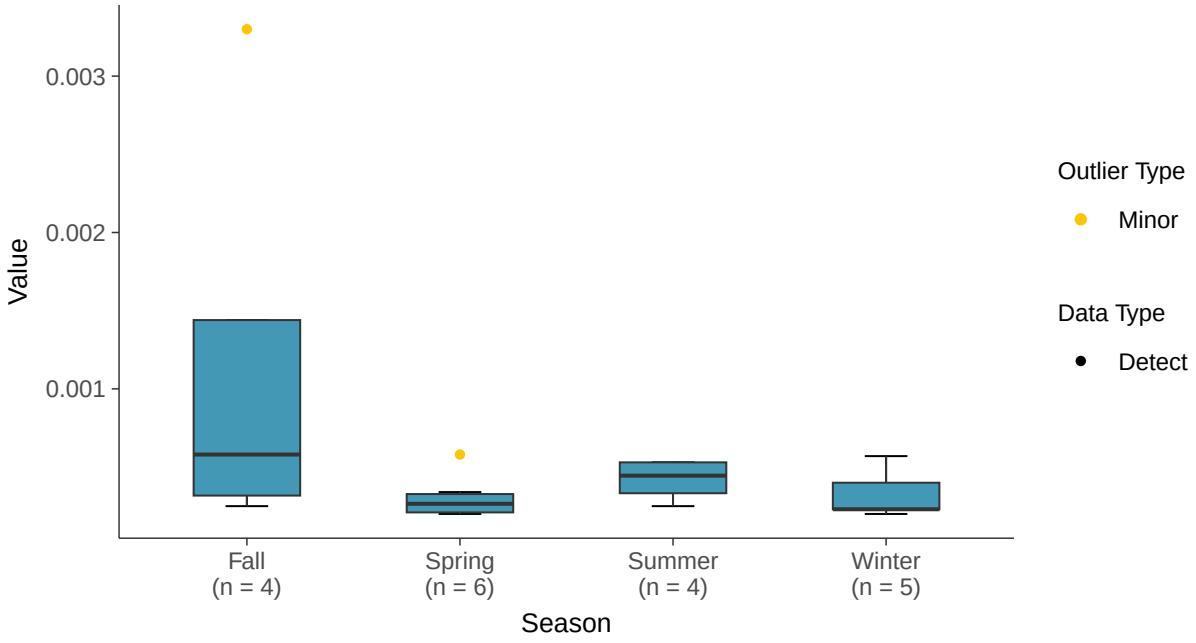
Boxplot

Copper, MW-20 (mg/L)



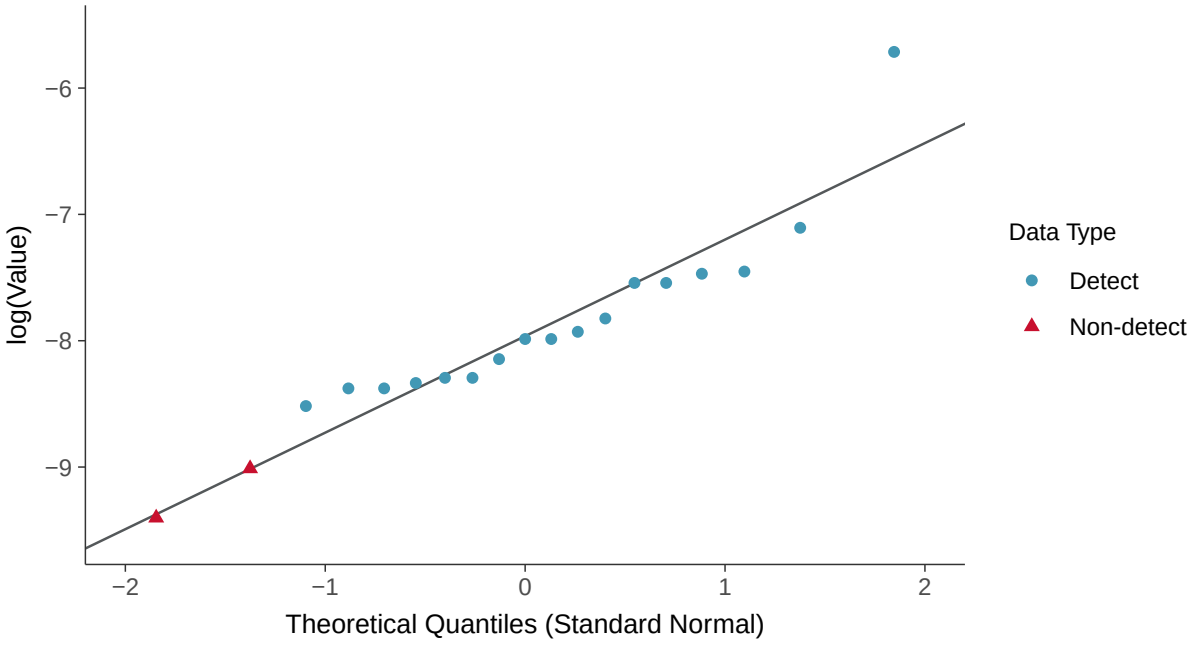
Boxplot by Season

Copper, MW-20 (mg/L)



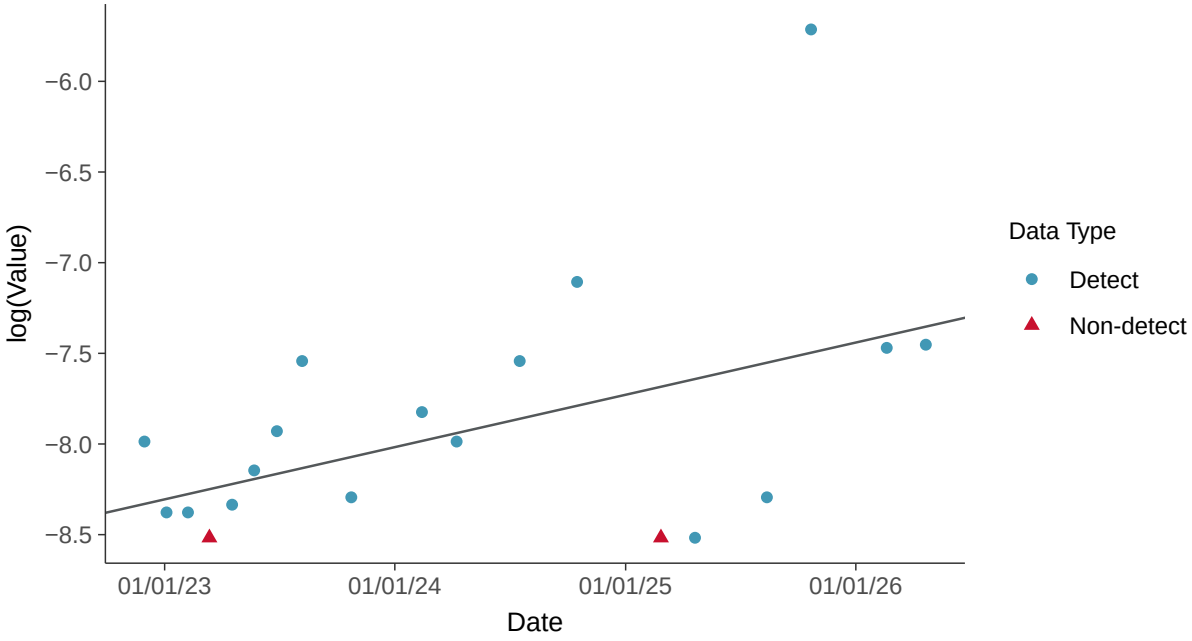
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-20 (mg/L)



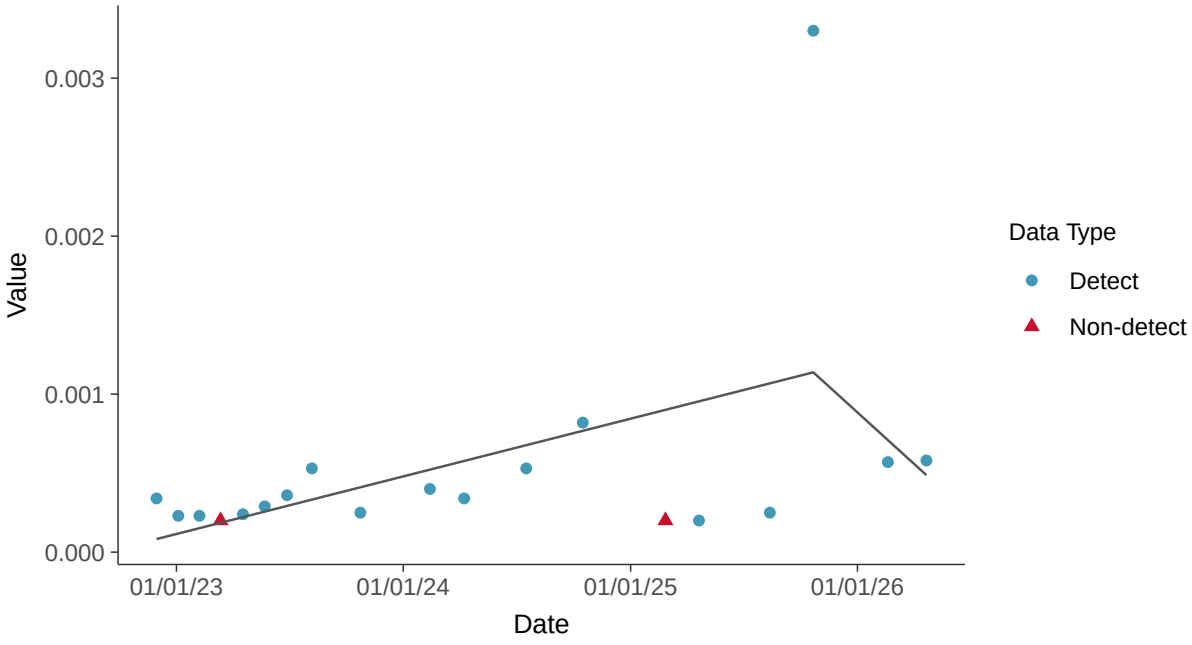
Trend Regression: Lognormal MLE

Copper, MW-20 (mg/L)



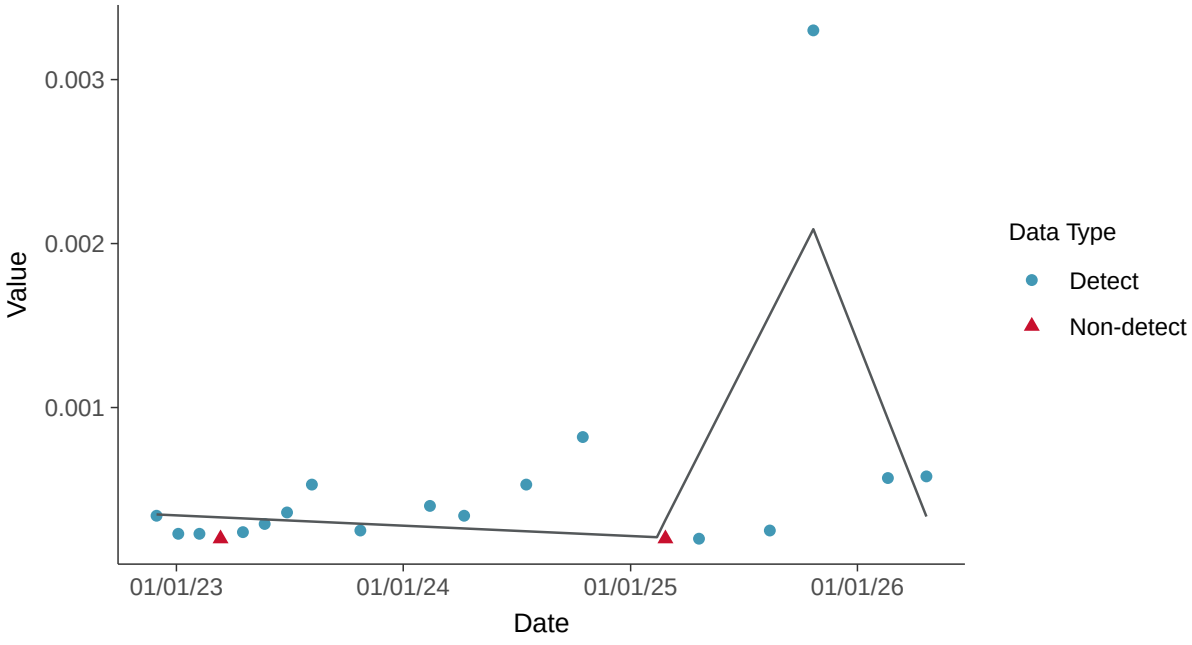
Trend Regression: Piecewise Linear-Linear

Copper, MW-20 (mg/L)



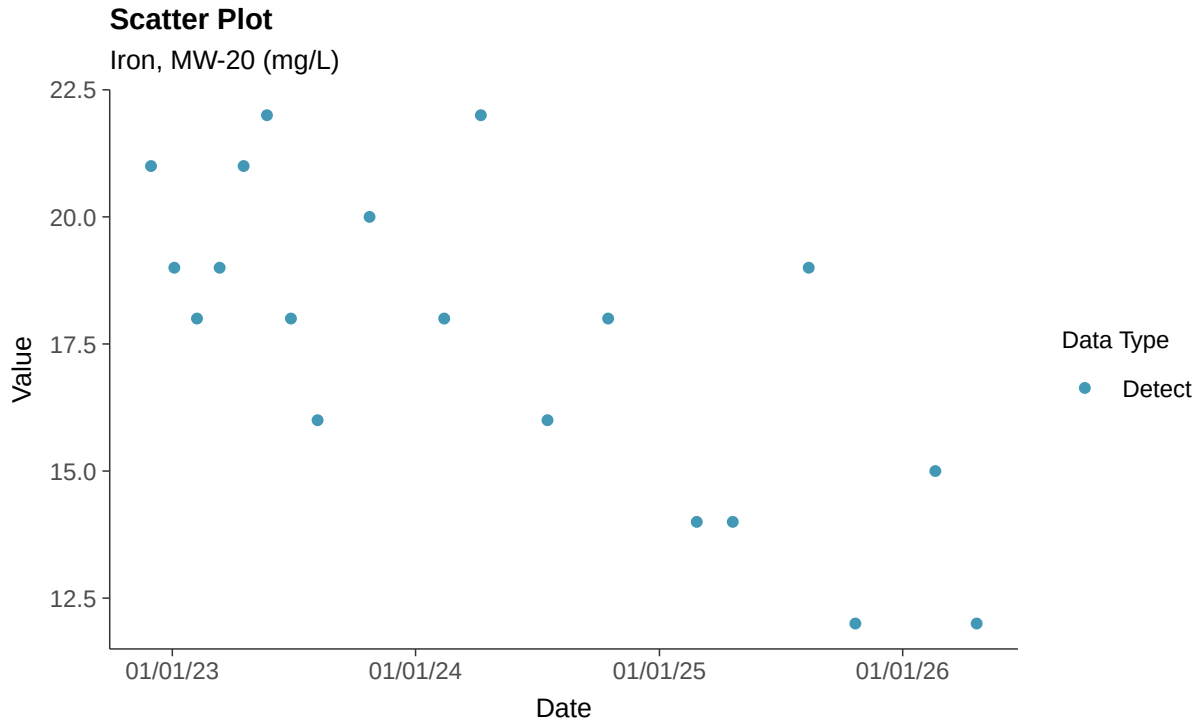
Trend Regression: Piecewise Linear-Linear-Linear

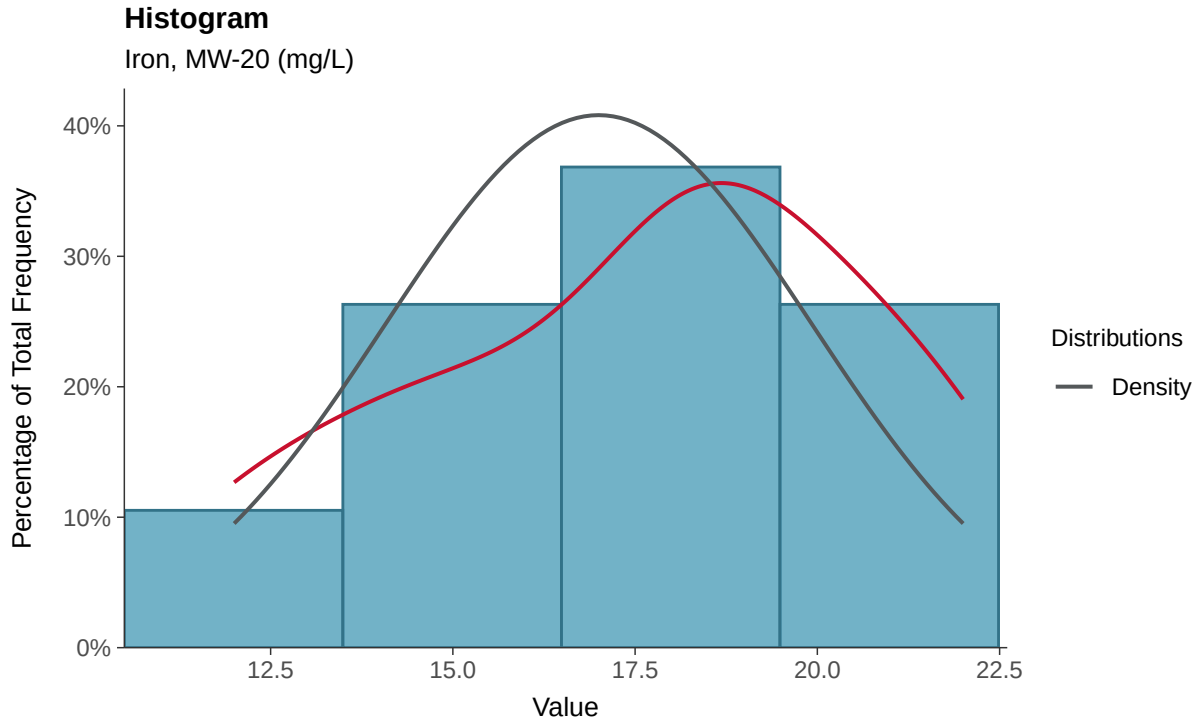
Copper, MW-20 (mg/L)



Part 115: Iron, MW-20

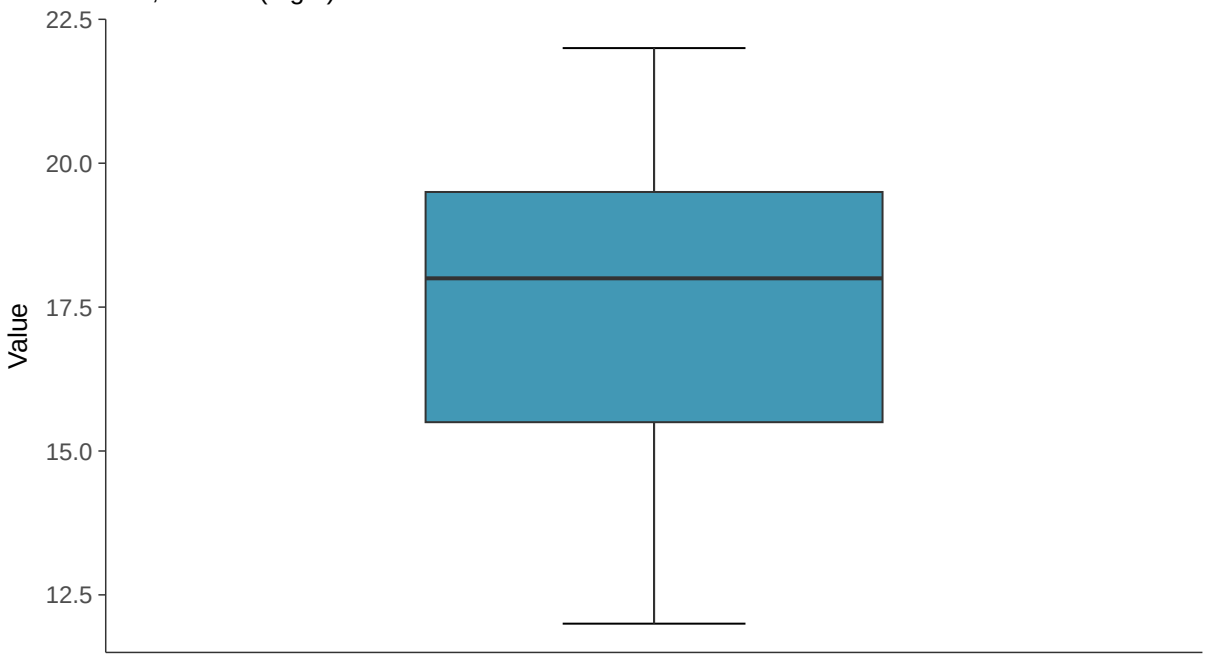
ID: 30_1_5_114





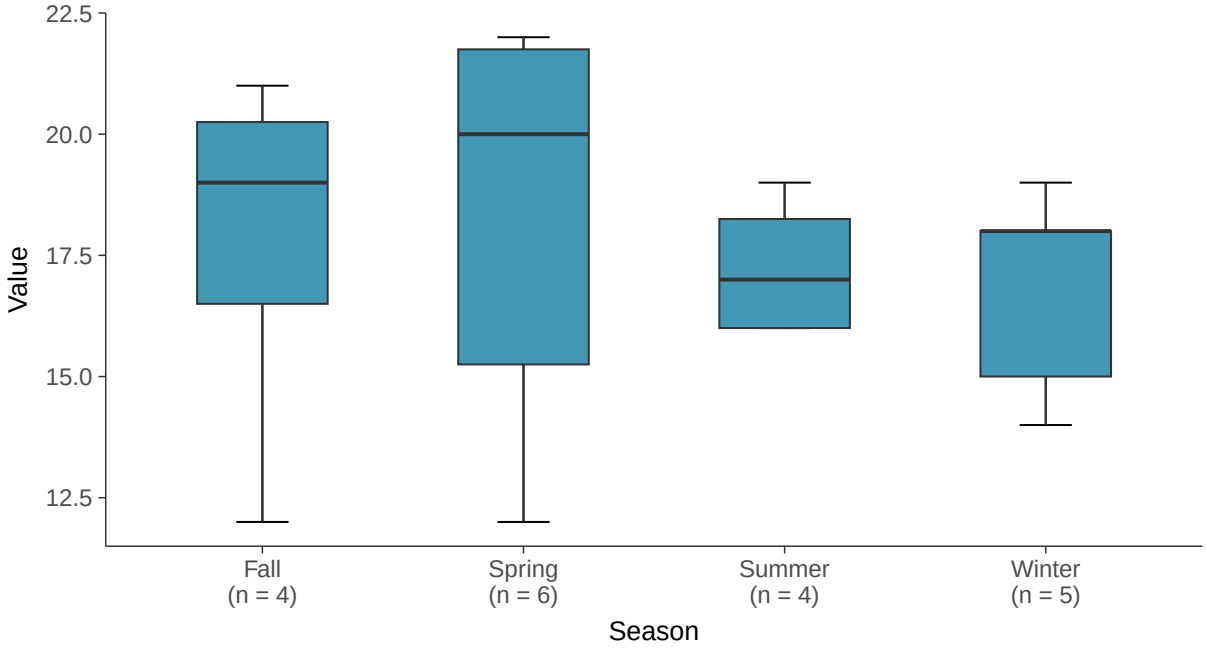
Boxplot

Iron, MW-20 (mg/L)



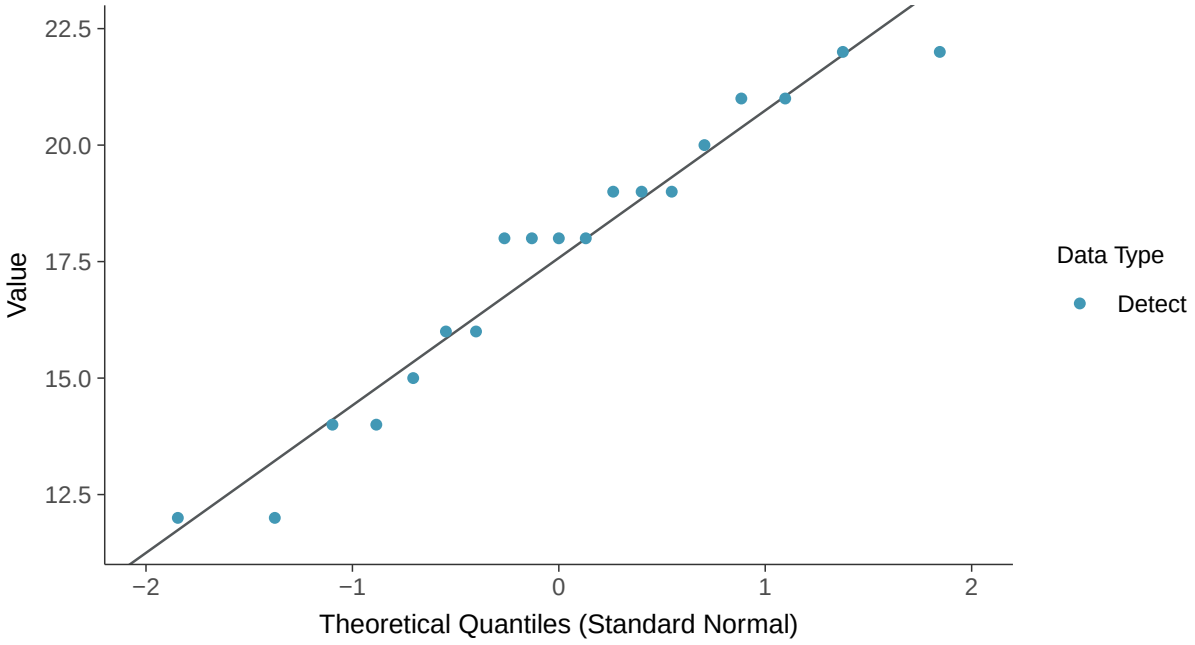
Boxplot by Season

Iron, MW-20 (mg/L)



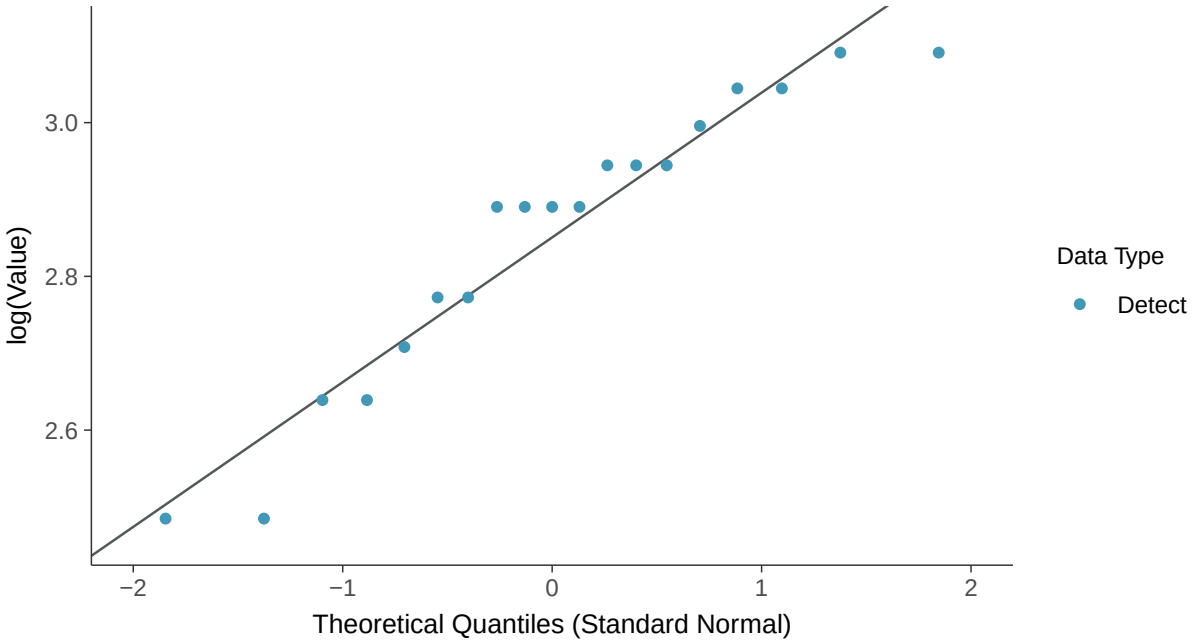
Normal Q-Q plot

Iron, MW-20 (mg/L)



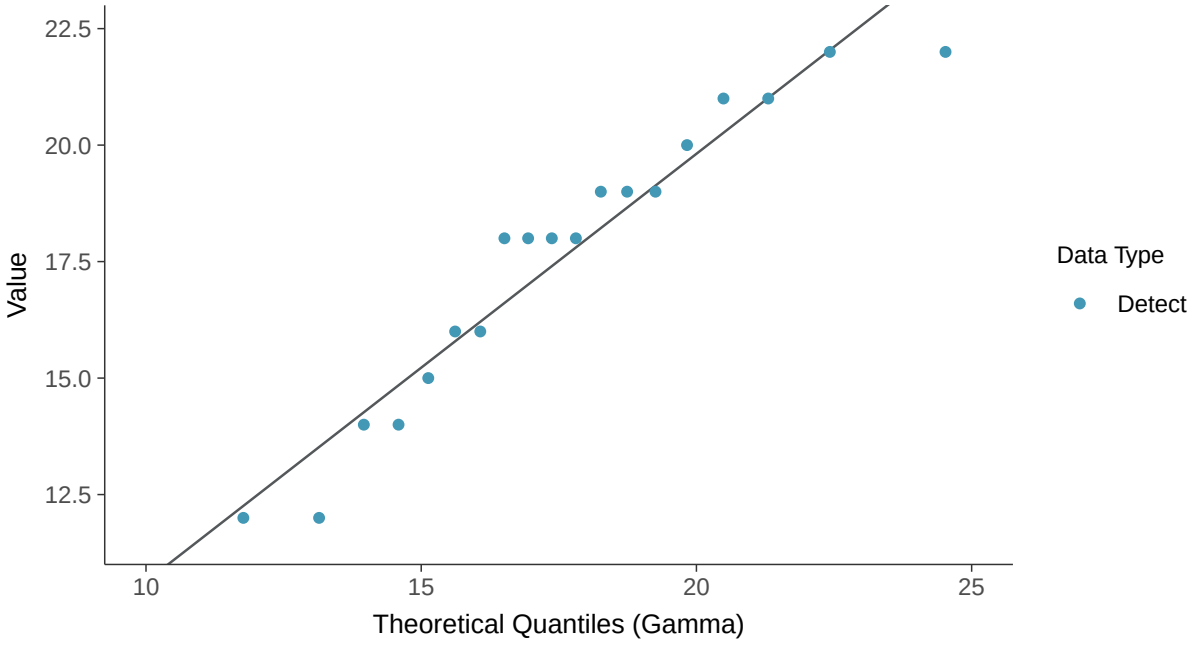
Lognormal Q-Q plot

Iron, MW-20 (mg/L)



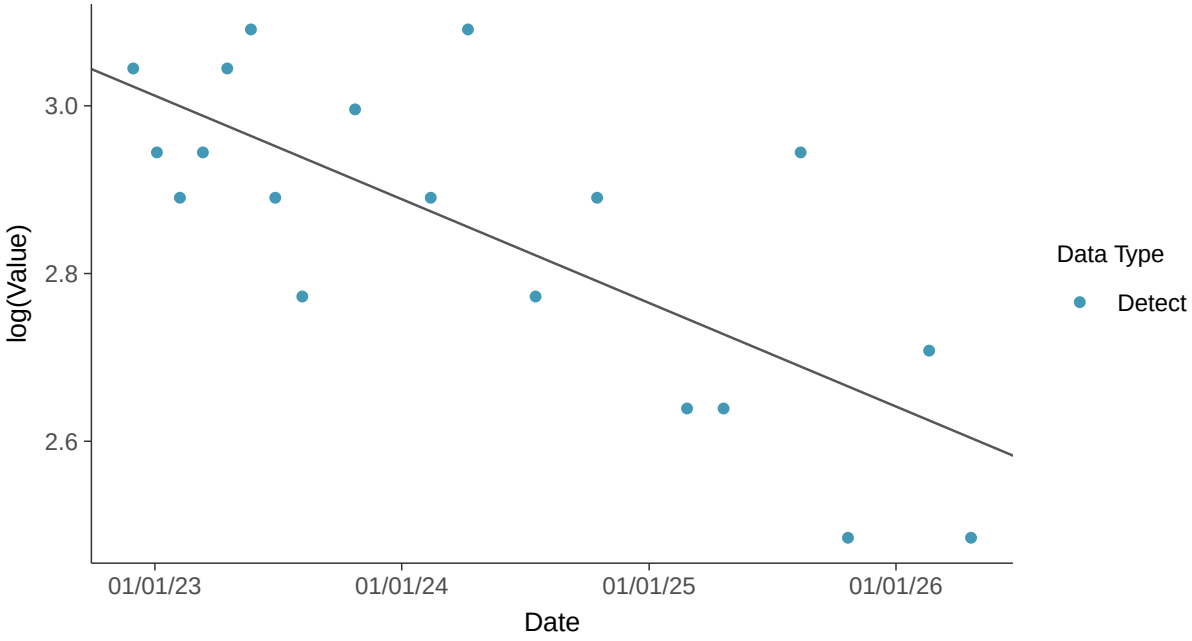
Gamma Q-Q plot

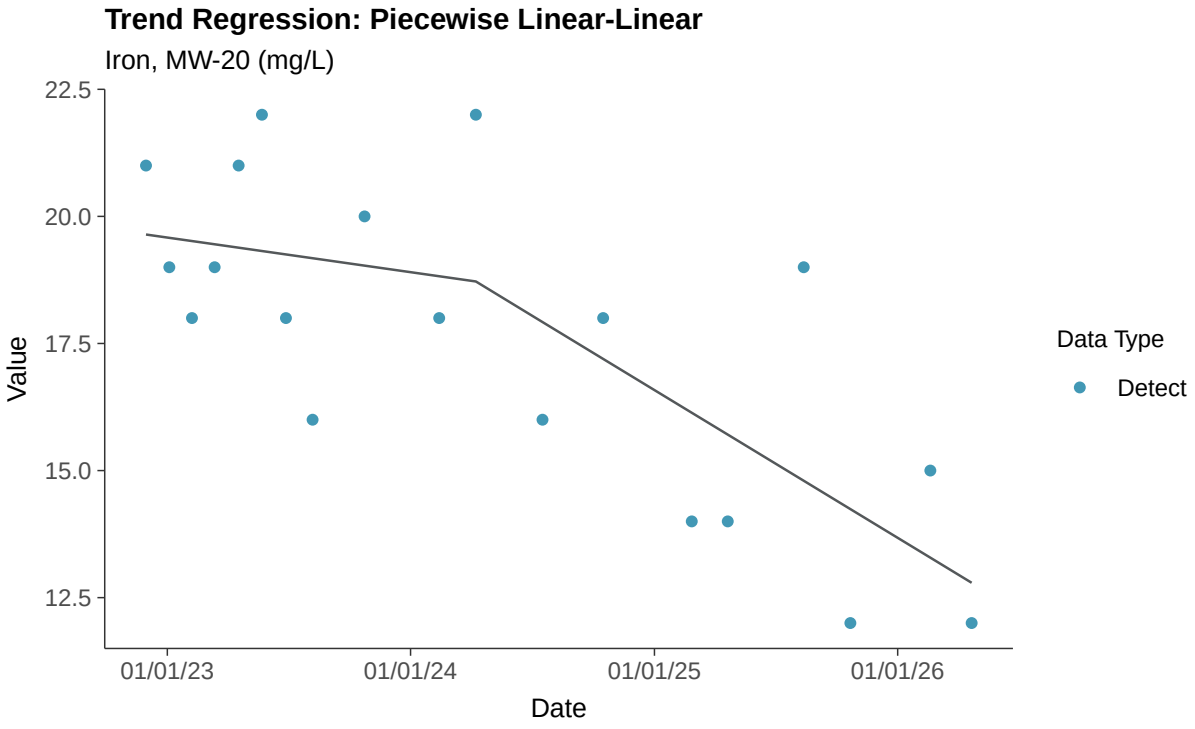
Iron, MW-20 (mg/L)



Trend Regression: Lognormal MLE

Iron, MW-20 (mg/L)



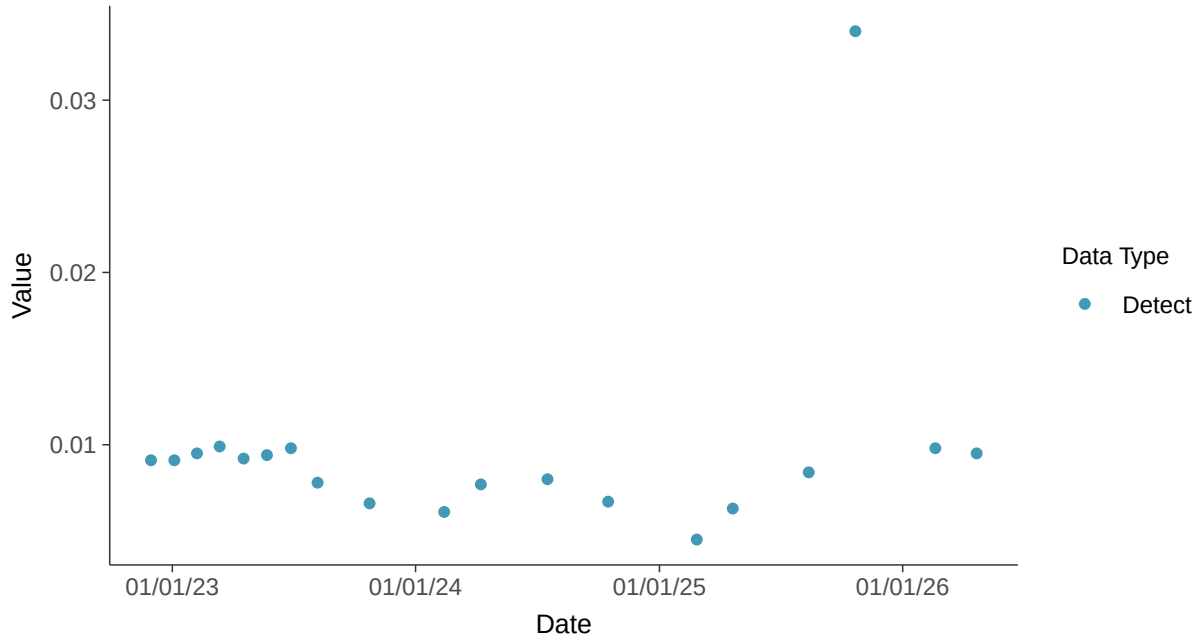

Trend Regression: Piecewise Linear-Linear
Iron, MW-20 (mg/L)
22.5
20.0
17.5
15.0
12.5
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Part 115: Nickel, MW-20

ID: 30_1_5_119

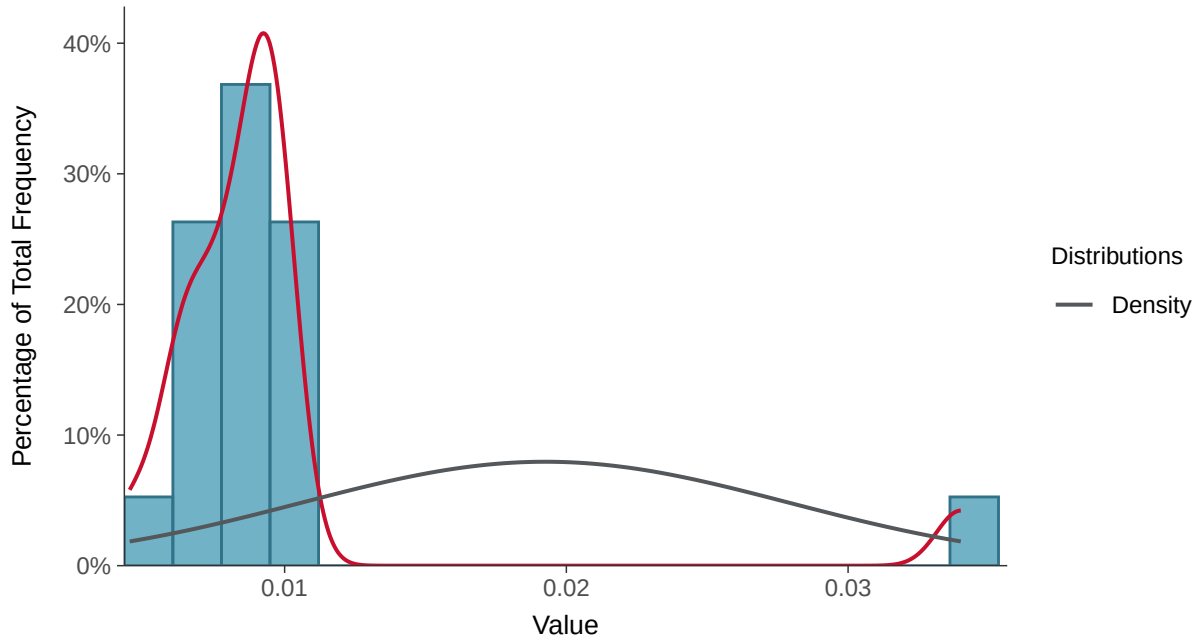
Scatter Plot

Nickel, MW-20 (mg/L)



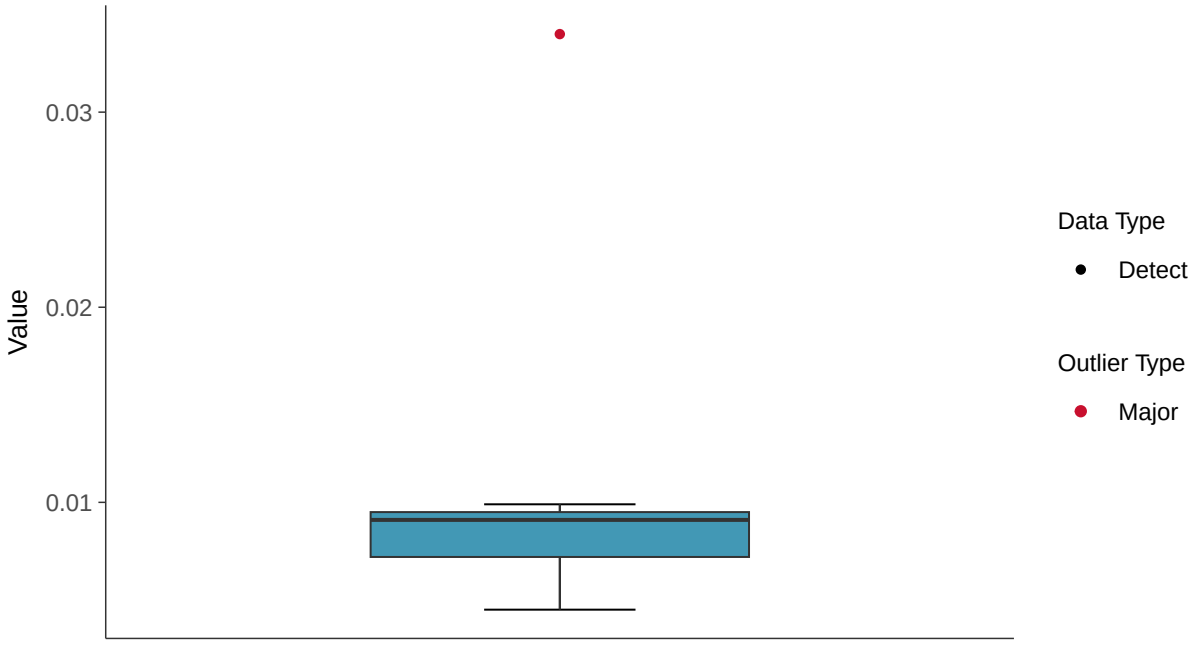
Histogram

Nickel, MW-20 (mg/L)



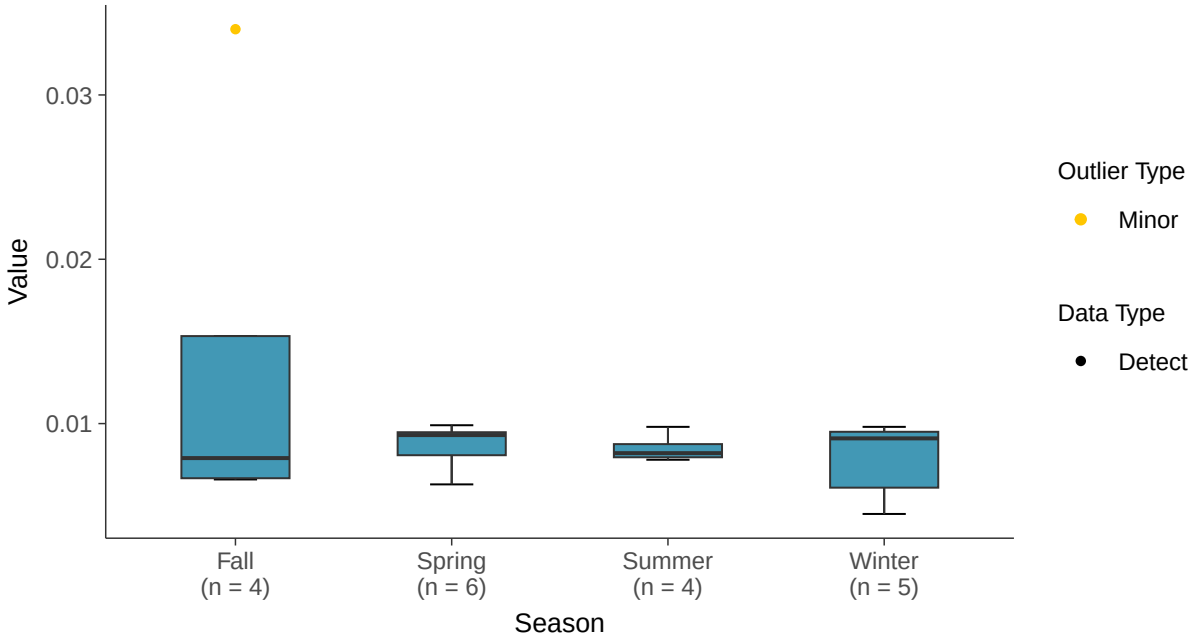
Boxplot

Nickel, MW-20 (mg/L)



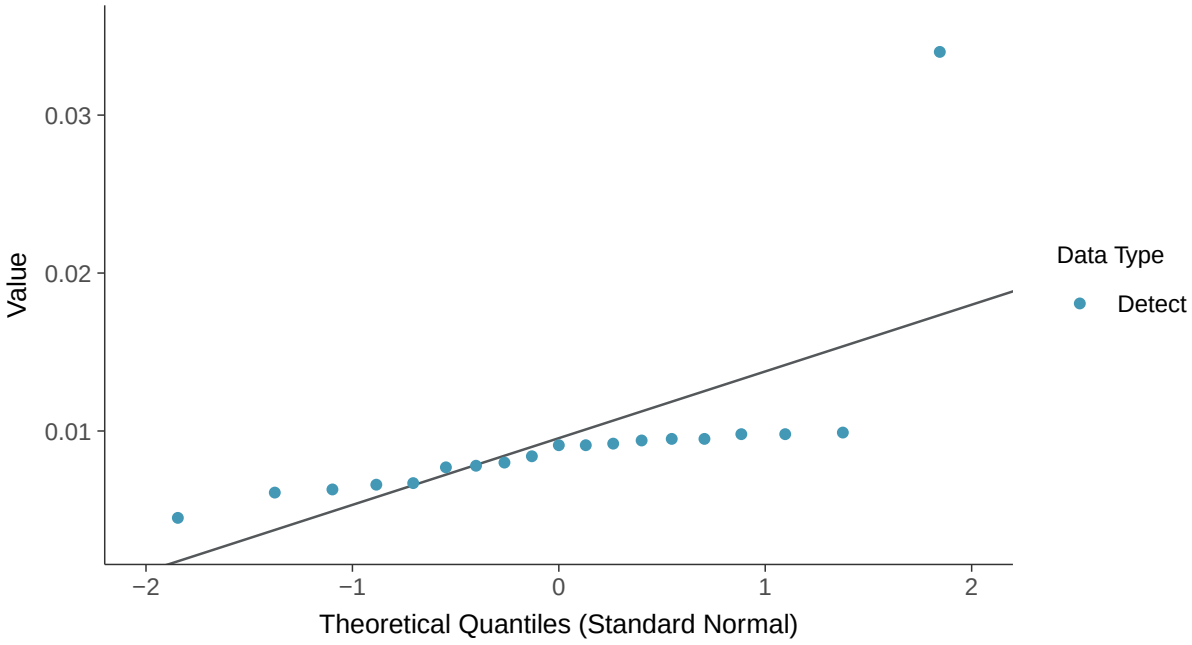
Boxplot by Season

Nickel, MW-20 (mg/L)



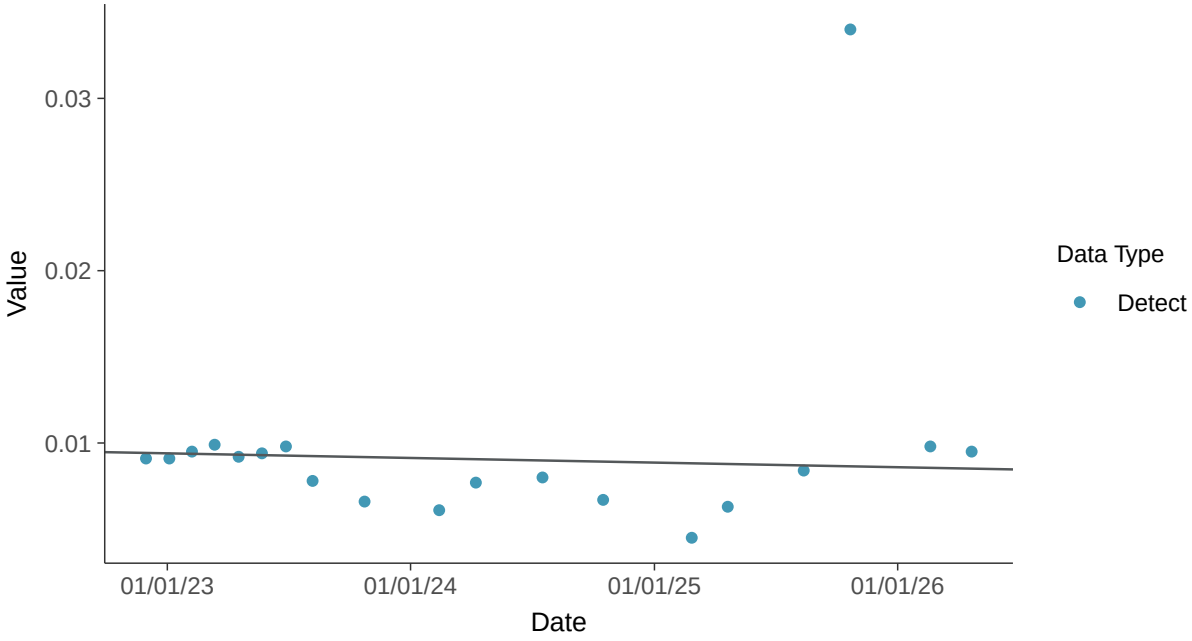
Normal Q-Q plot

Nickel, MW-20 (mg/L)



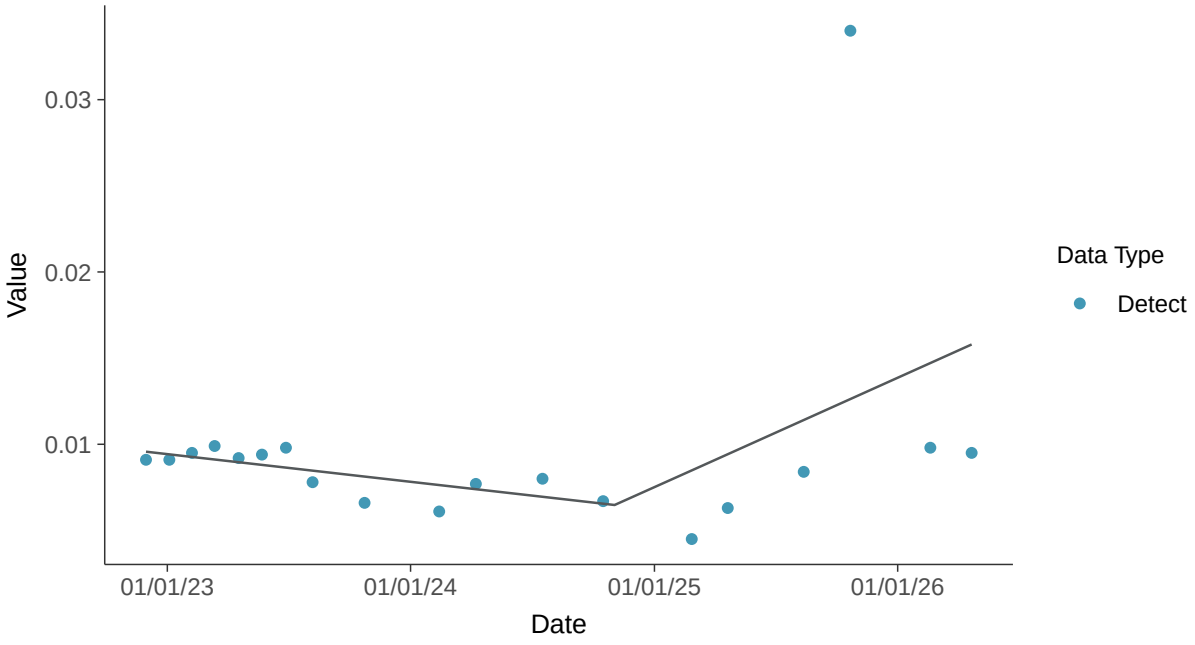
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-20 (mg/L)



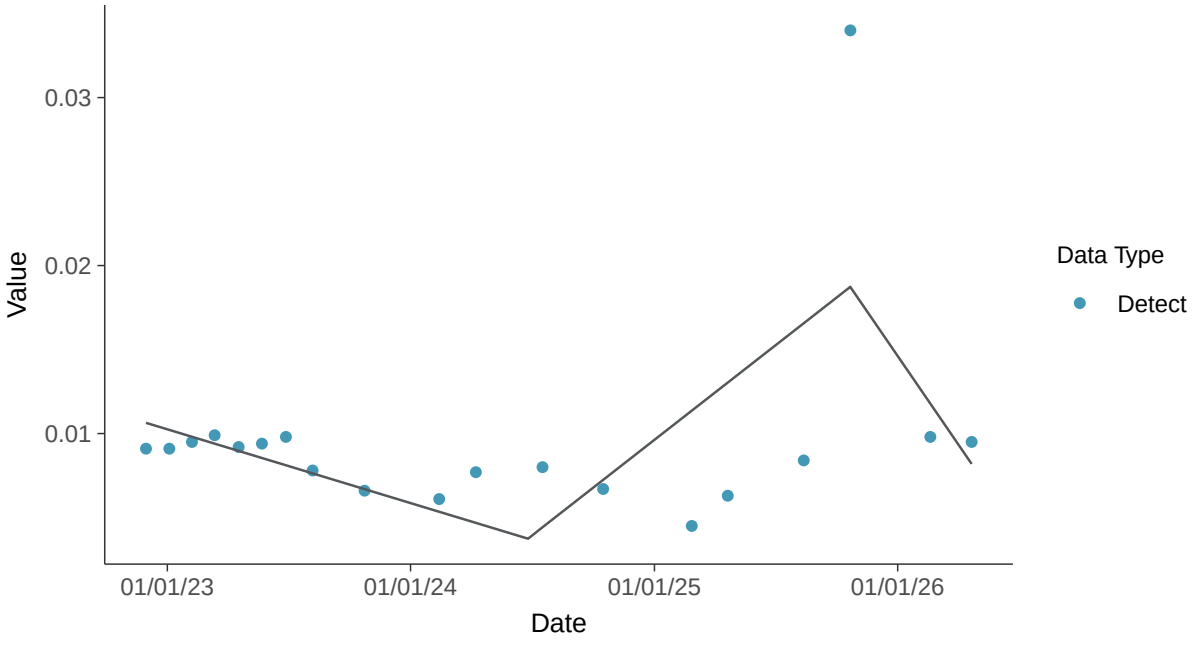
Trend Regression: Piecewise Linear-Linear

Nickel, MW-20 (mg/L)



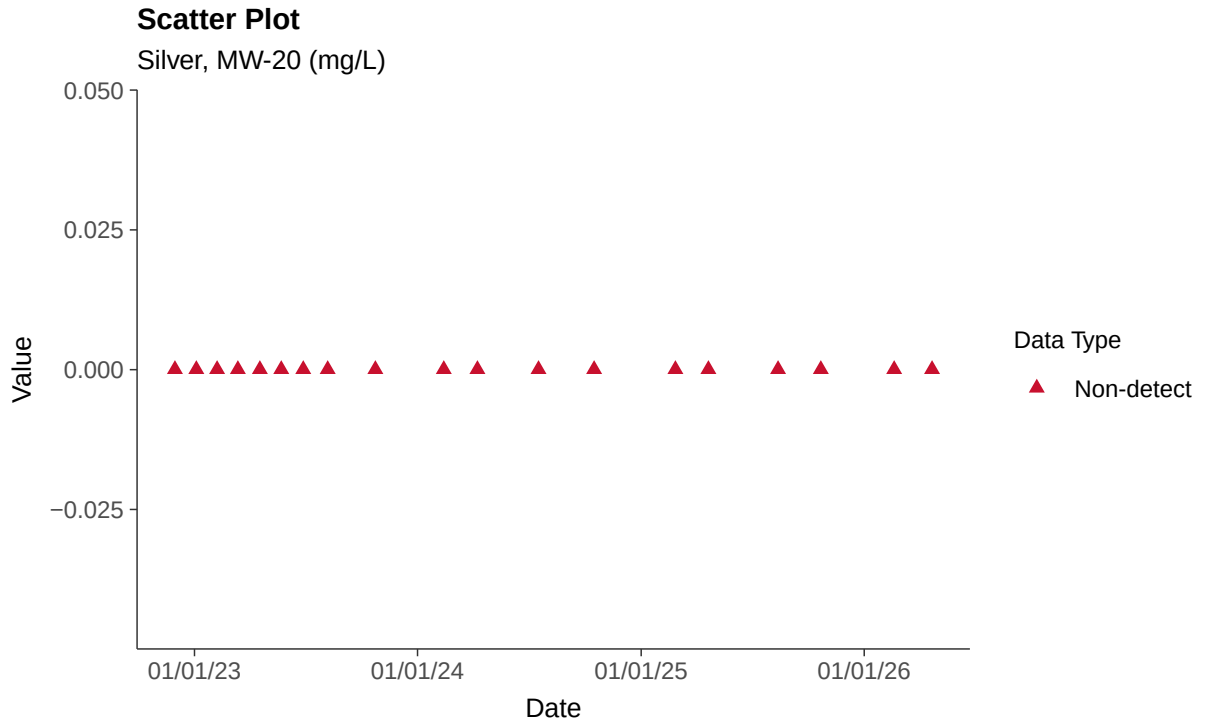
Trend Regression: Piecewise Linear-Linear-Linear

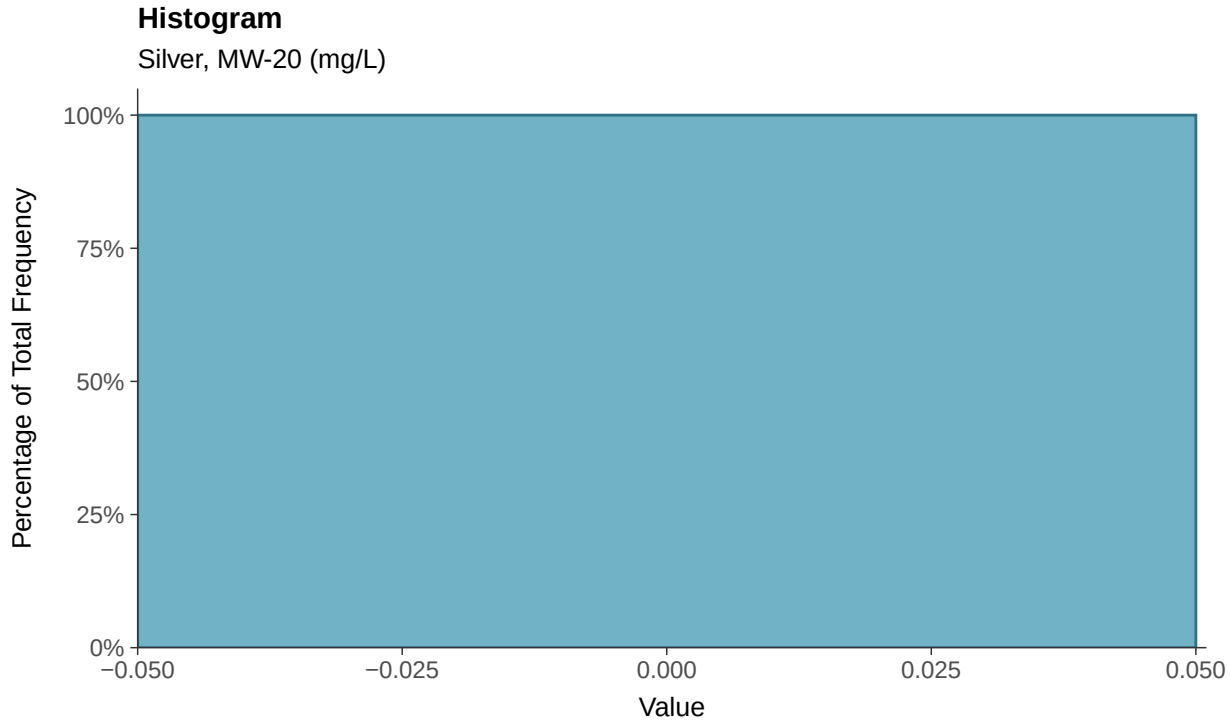
Nickel, MW-20 (mg/L)



Part 115: Silver, MW-20

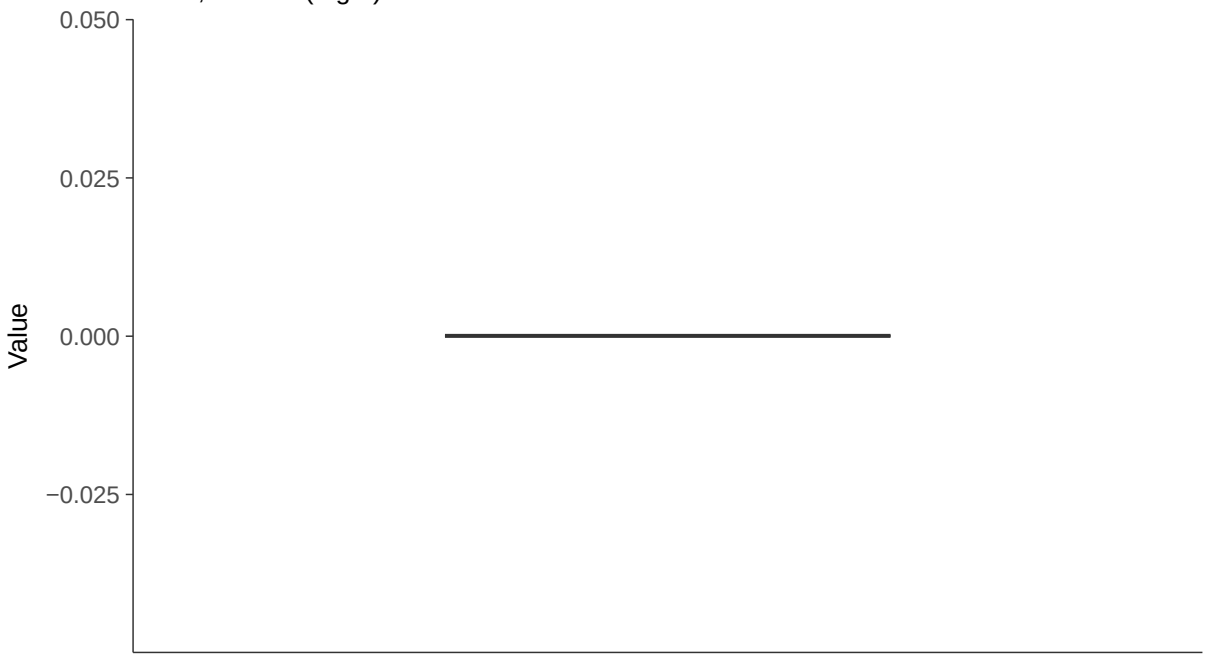
ID: 30_1_5_123





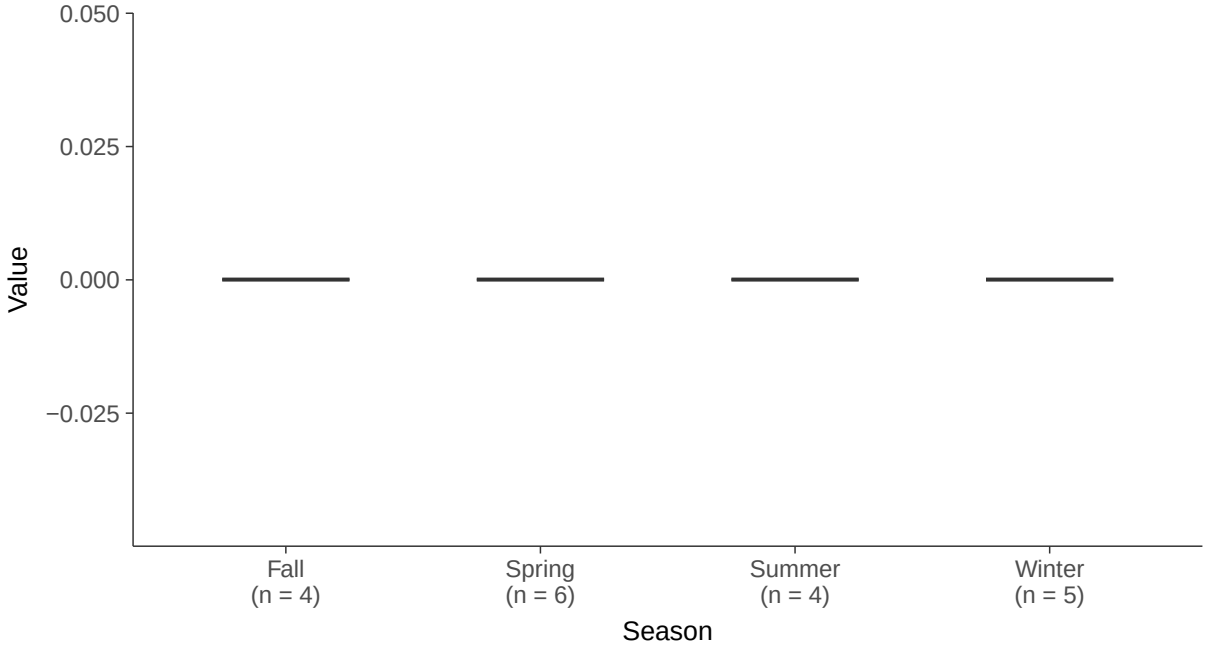
Boxplot

Silver, MW-20 (mg/L)



Boxplot by Season

Silver, MW-20 (mg/L)

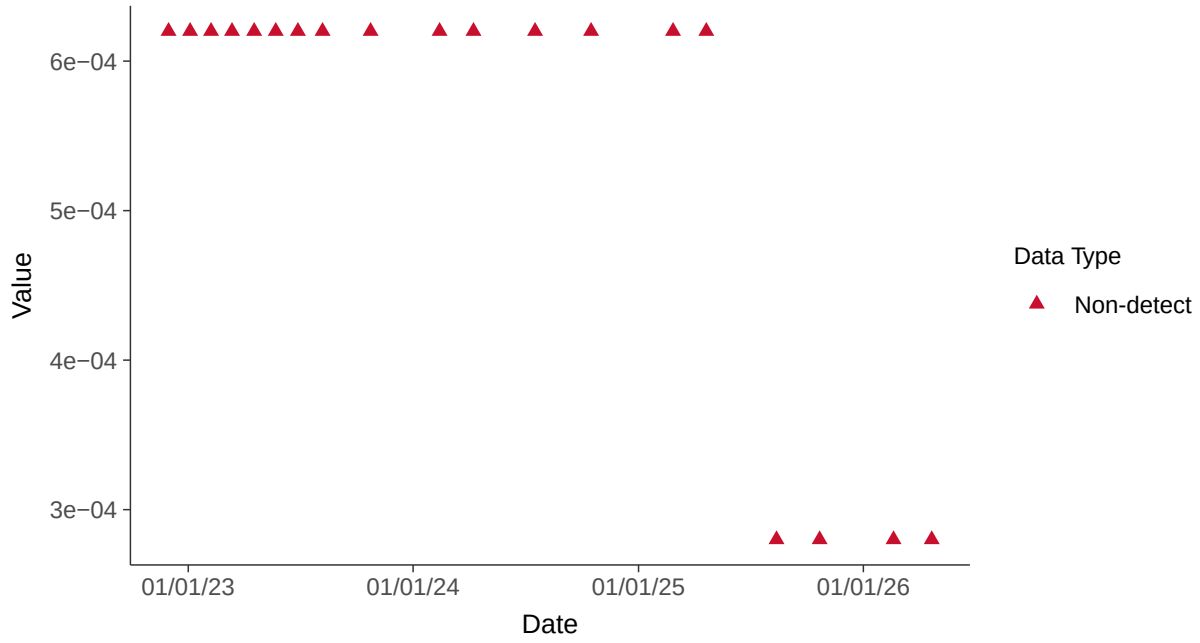


Part 115: Vanadium, MW-20

ID: 30_1_5_128

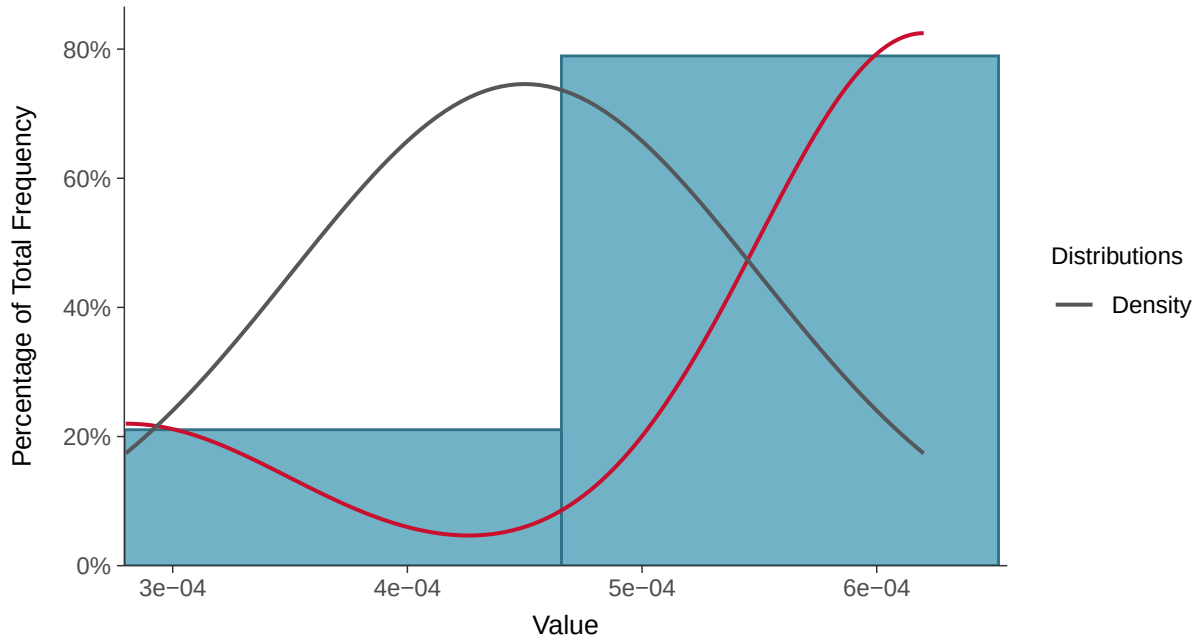
Scatter Plot

Vanadium, MW-20 (mg/L)



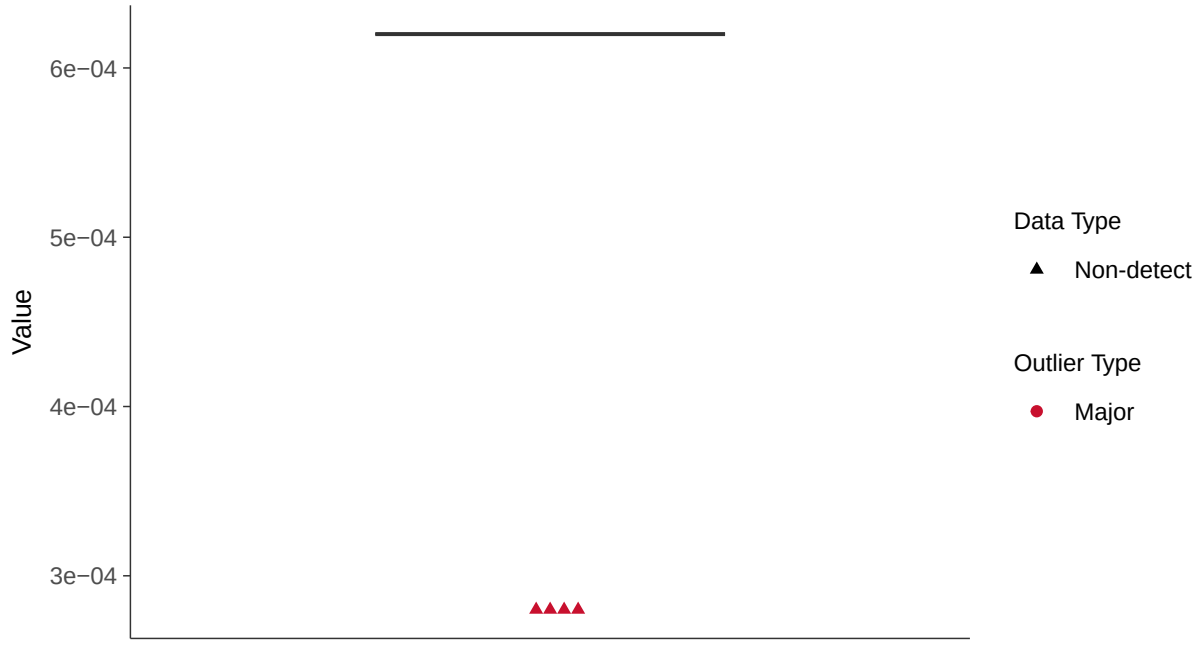
Histogram

Vanadium, MW-20 (mg/L)



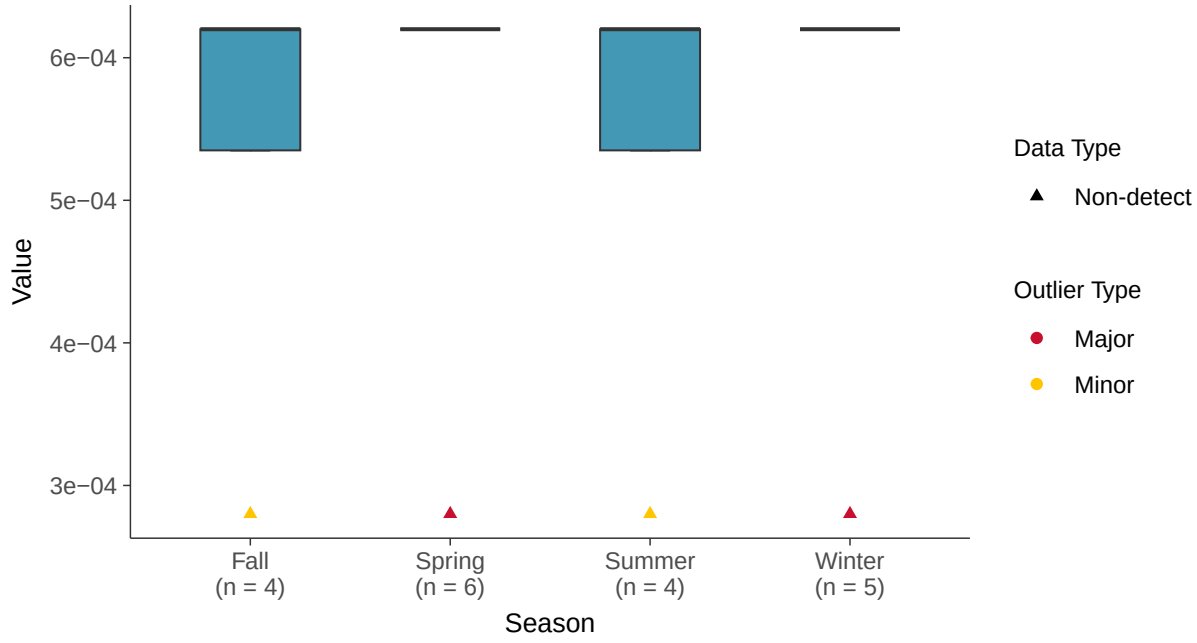
Boxplot

Vanadium, MW-20 (mg/L)



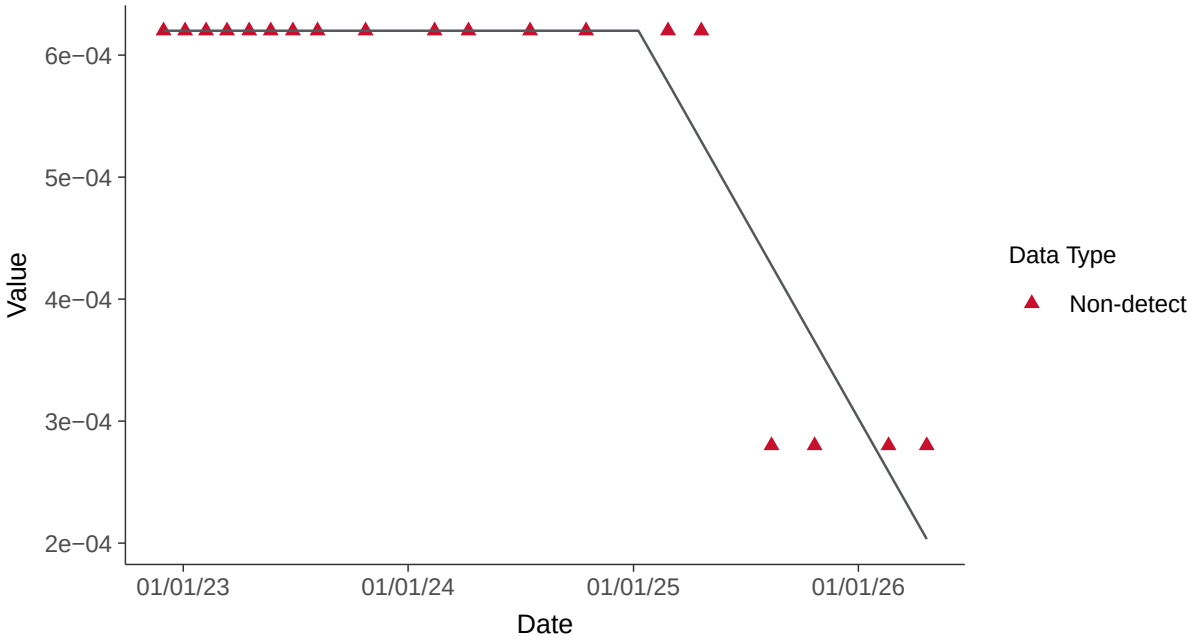
Boxplot by Season

Vanadium, MW-20 (mg/L)



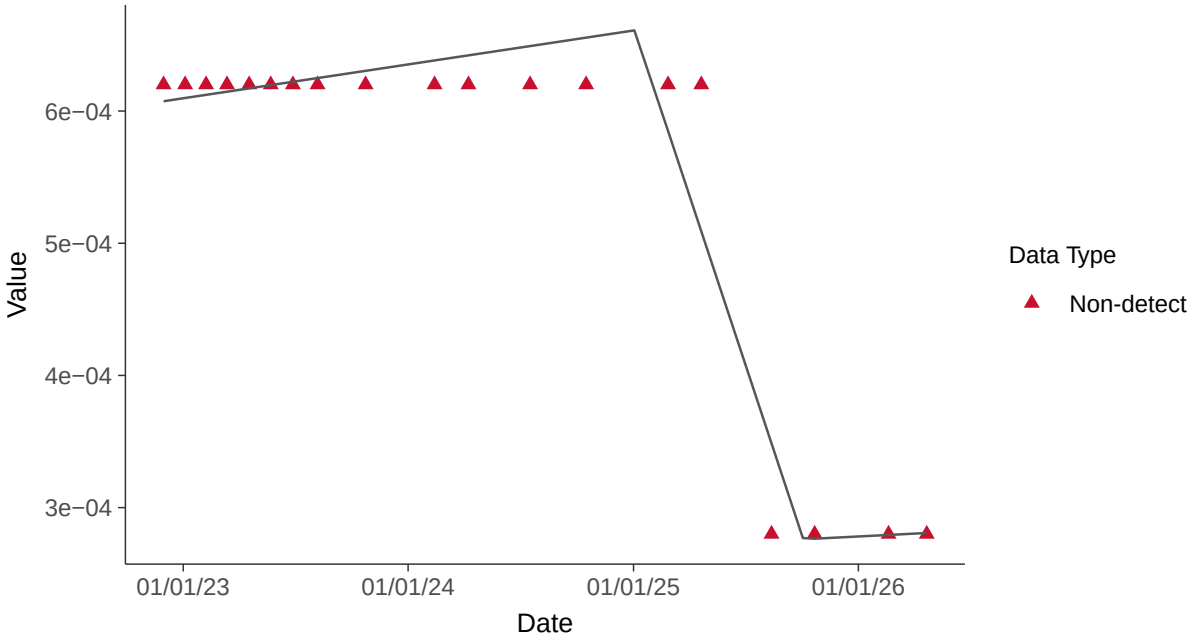
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-20 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-20 (mg/L)

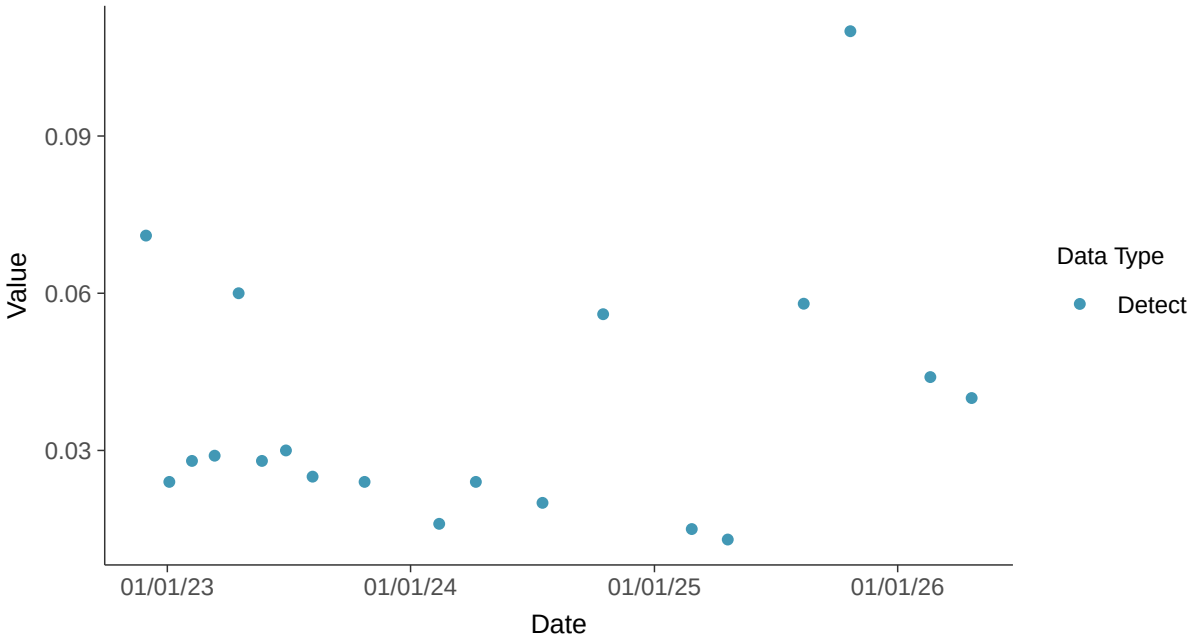


Part 115: Zinc, MW-20

ID: 30_1_5_129

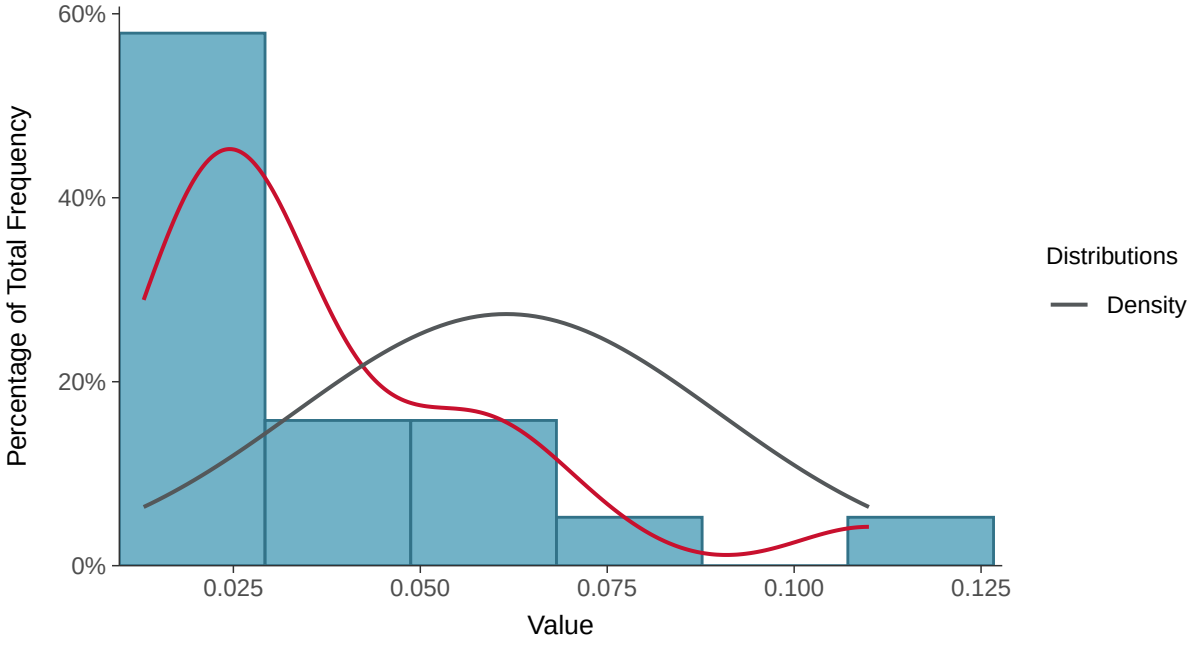
Scatter Plot

Zinc, MW-20 (mg/L)



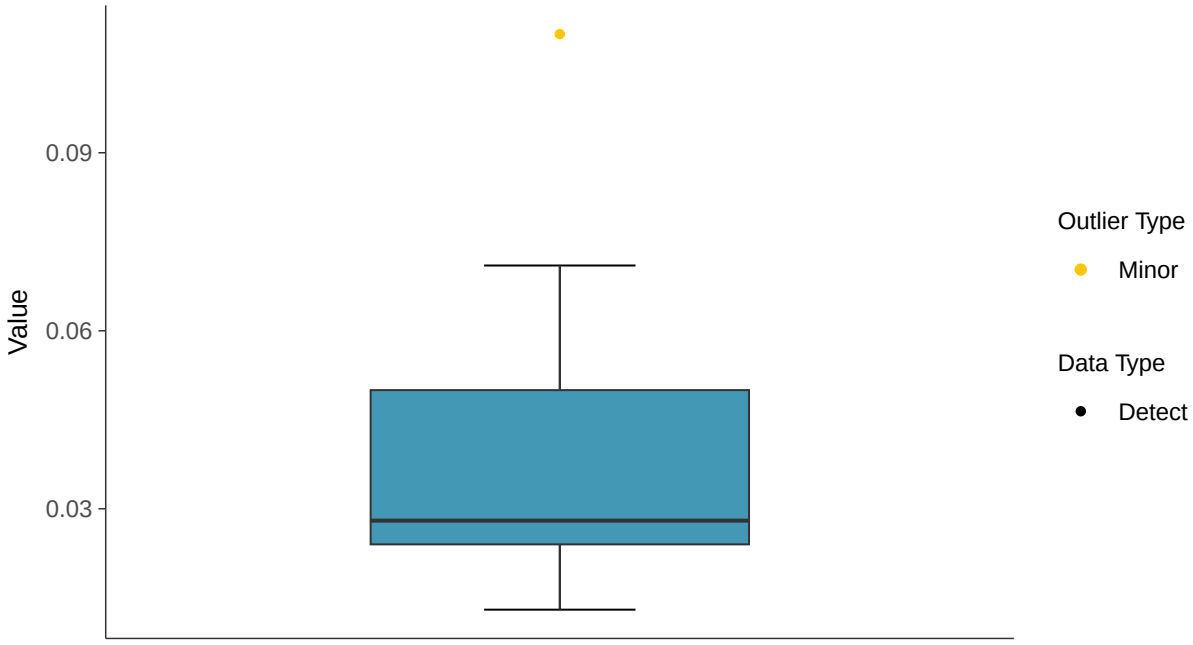
Histogram

Zinc, MW-20 (mg/L)



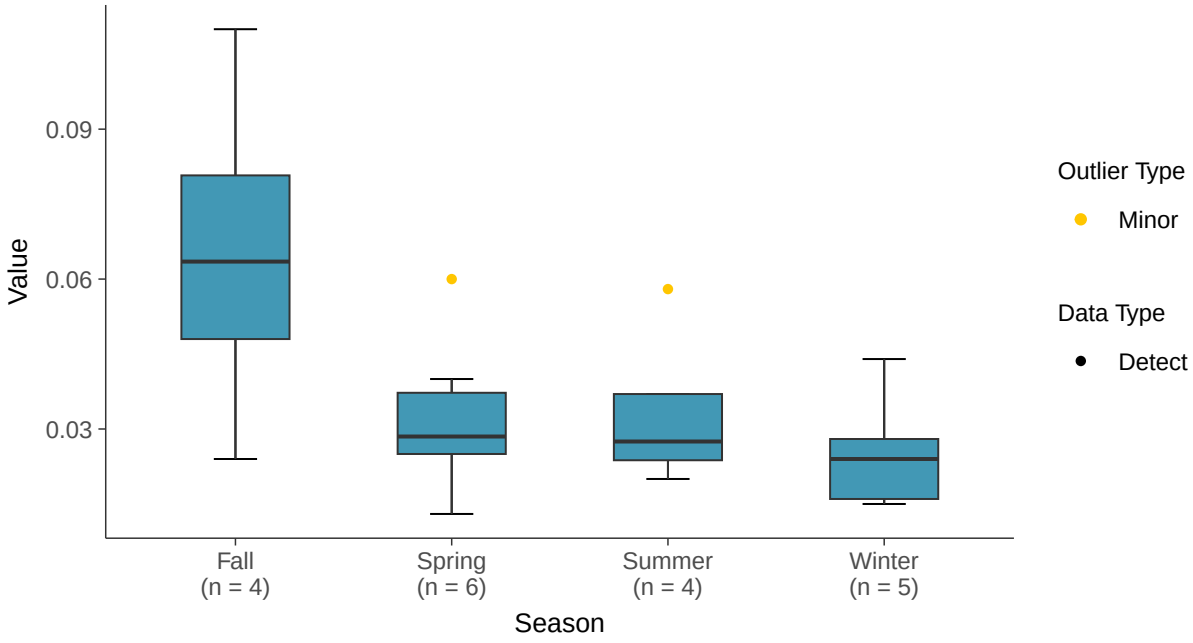
Boxplot

Zinc, MW-20 (mg/L)



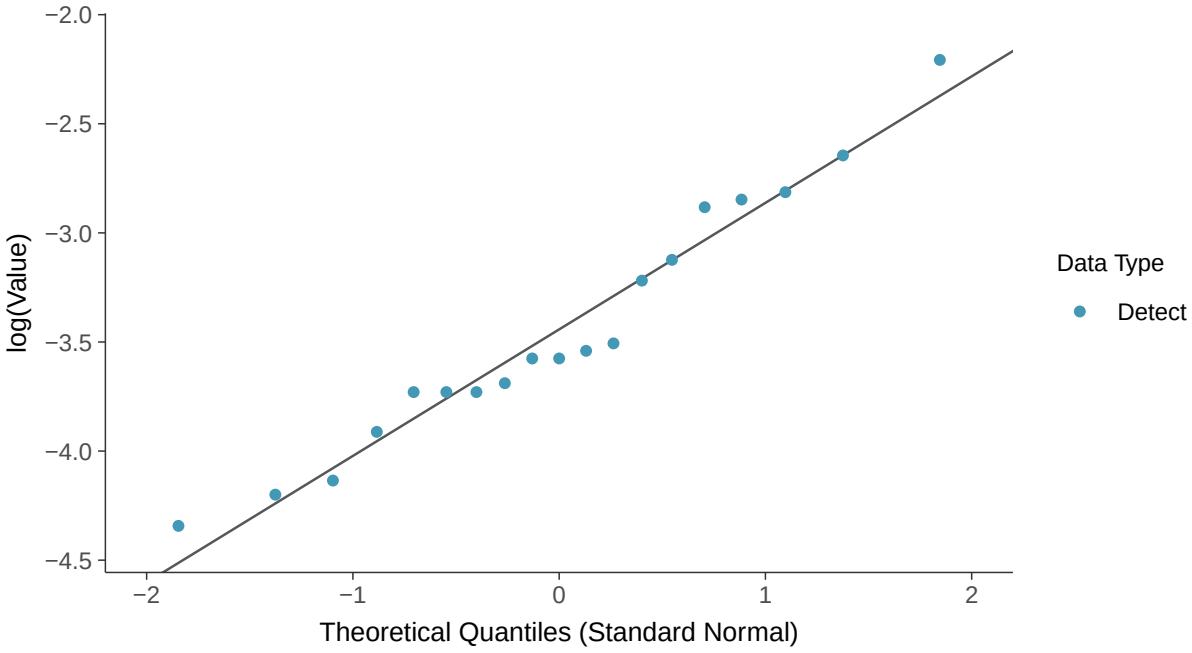
Boxplot by Season

Zinc, MW-20 (mg/L)



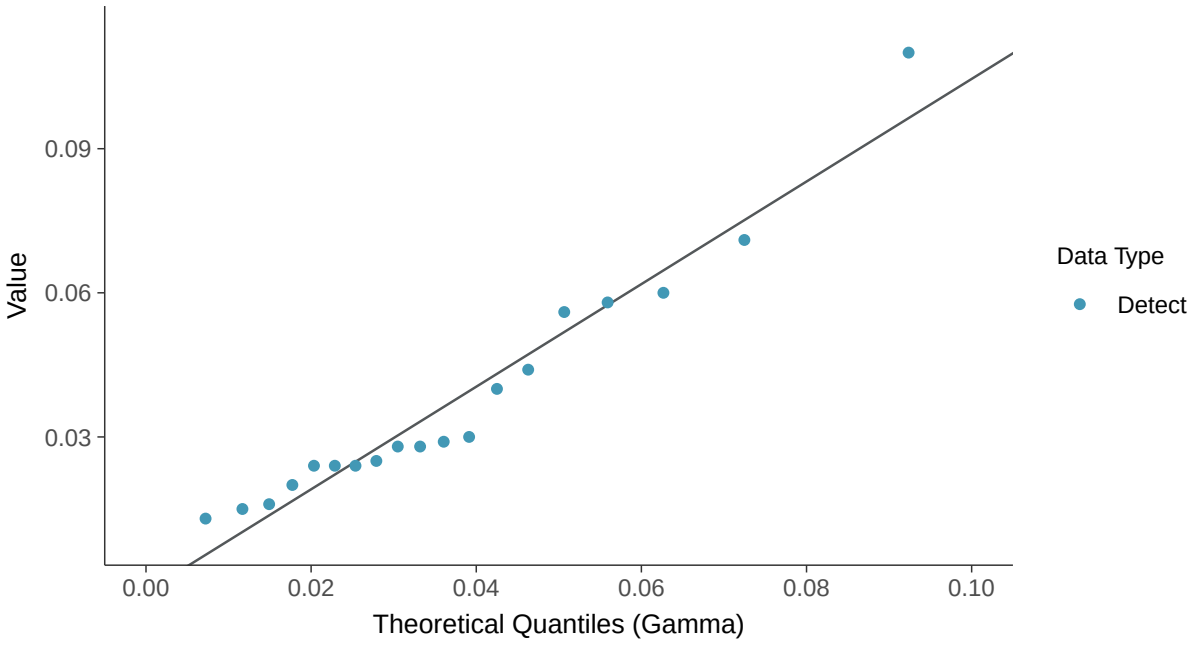
Lognormal Q-Q plot

Zinc, MW-20 (mg/L)



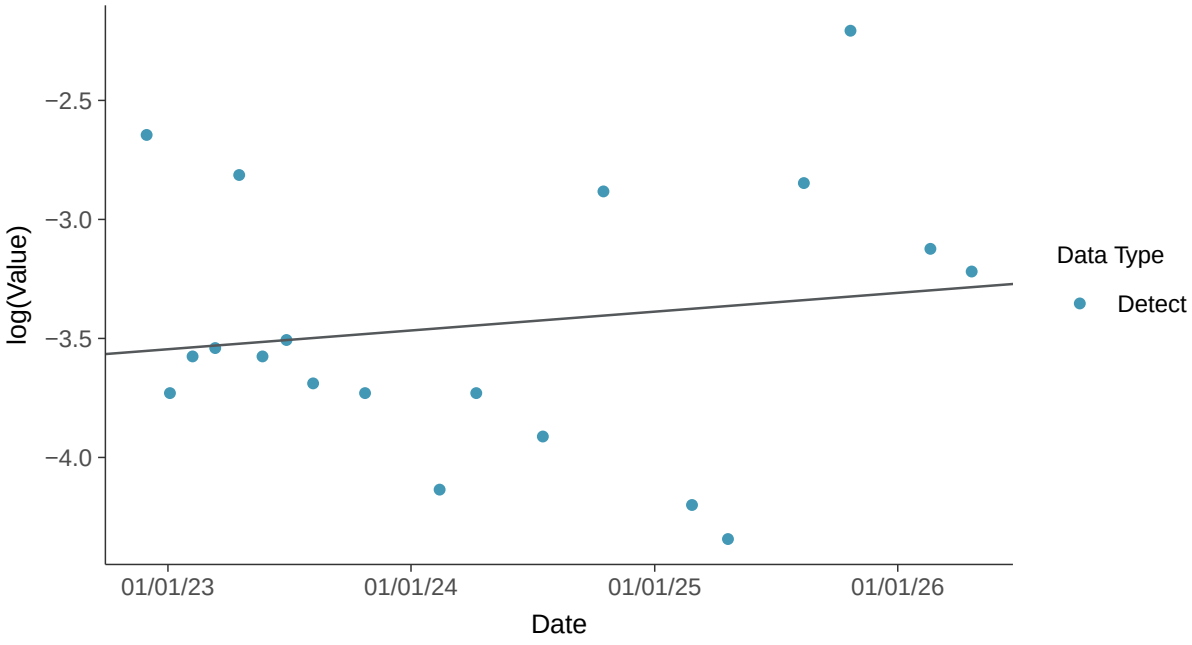
Gamma Q-Q plot

Zinc, MW-20 (mg/L)



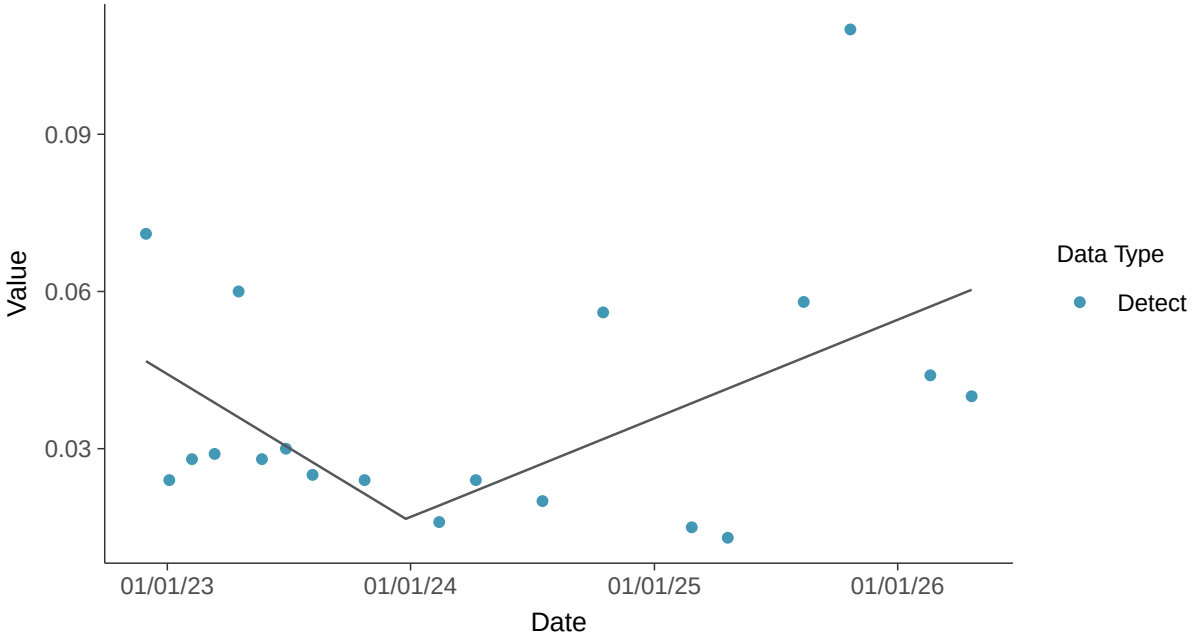
Trend Regression: Lognormal MLE

Zinc, MW-20 (mg/L)



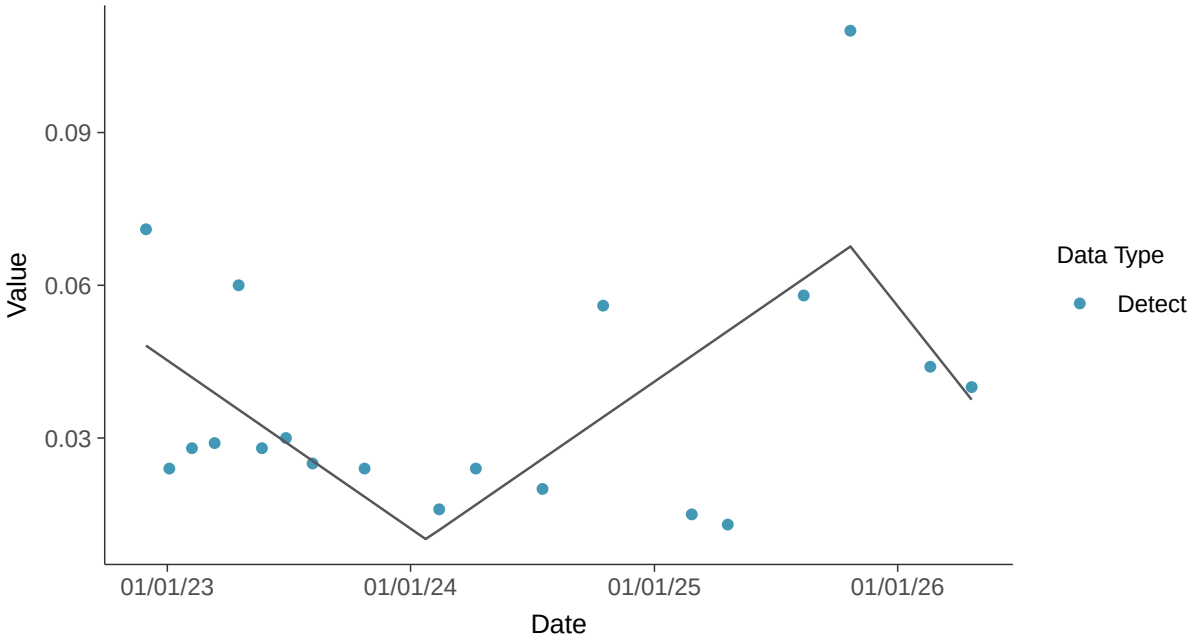
Trend Regression: Piecewise Linear-Linear

Zinc, MW-20 (mg/L)



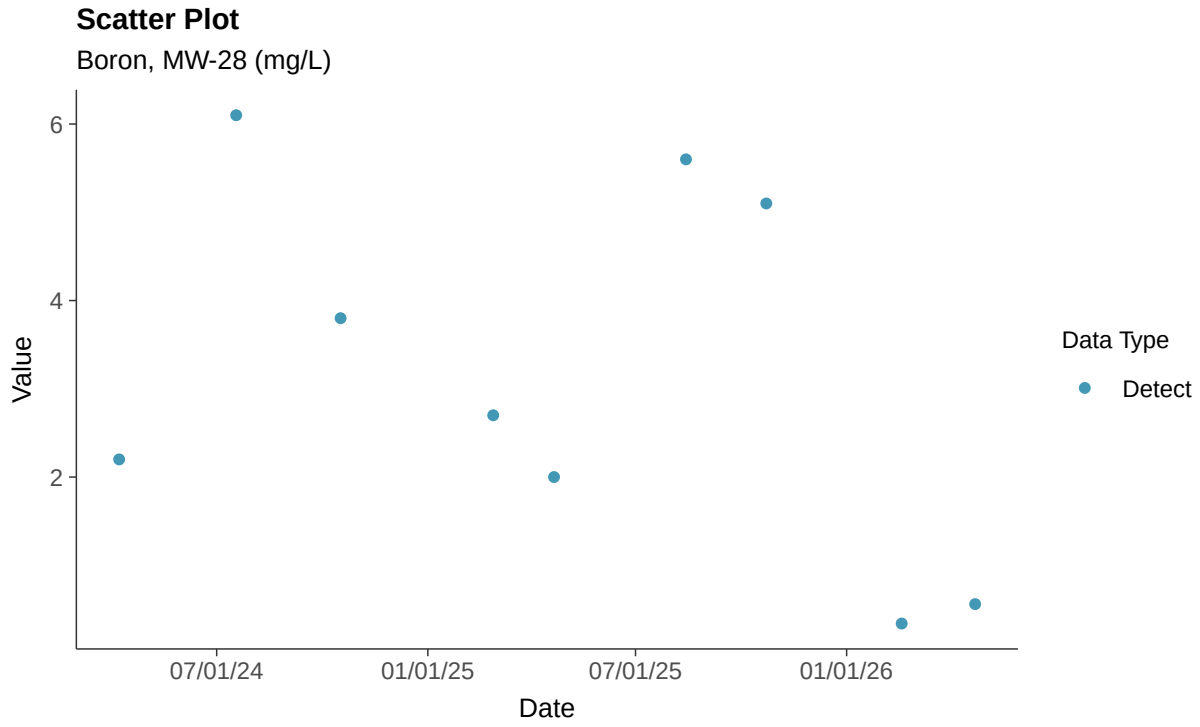
Trend Regression: Piecewise Linear-Linear-Linear

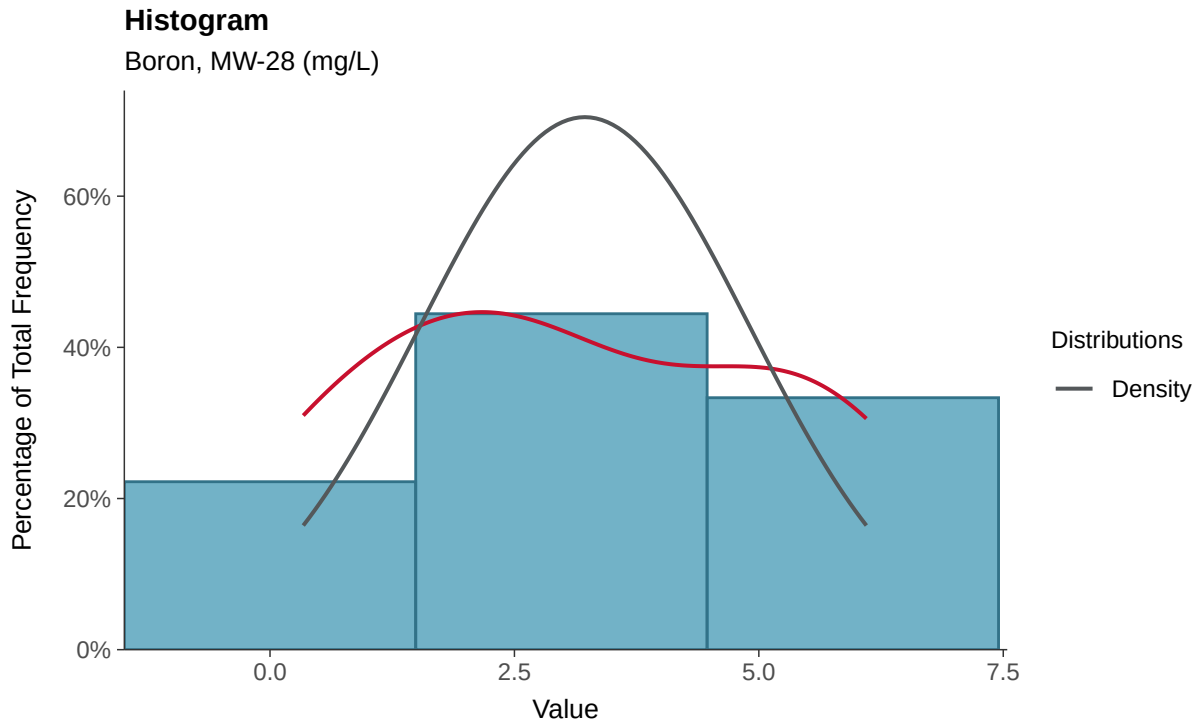
Zinc, MW-20 (mg/L)



Appendix III: Boron, MW-28

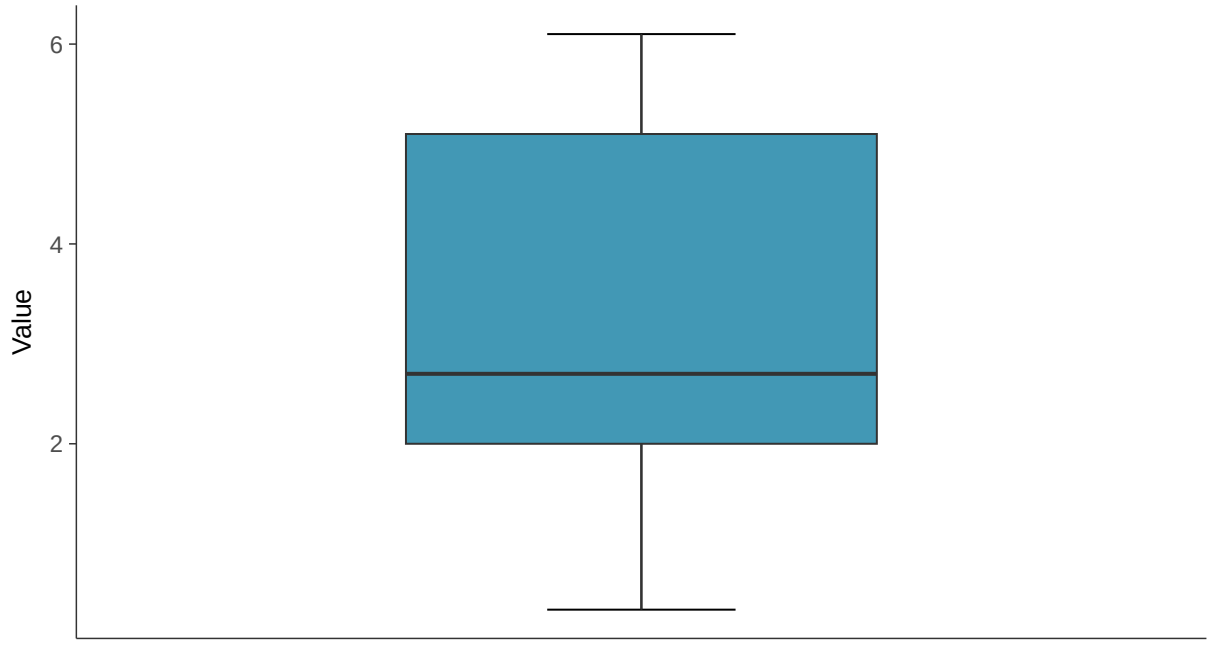
ID: 38_1_3_105





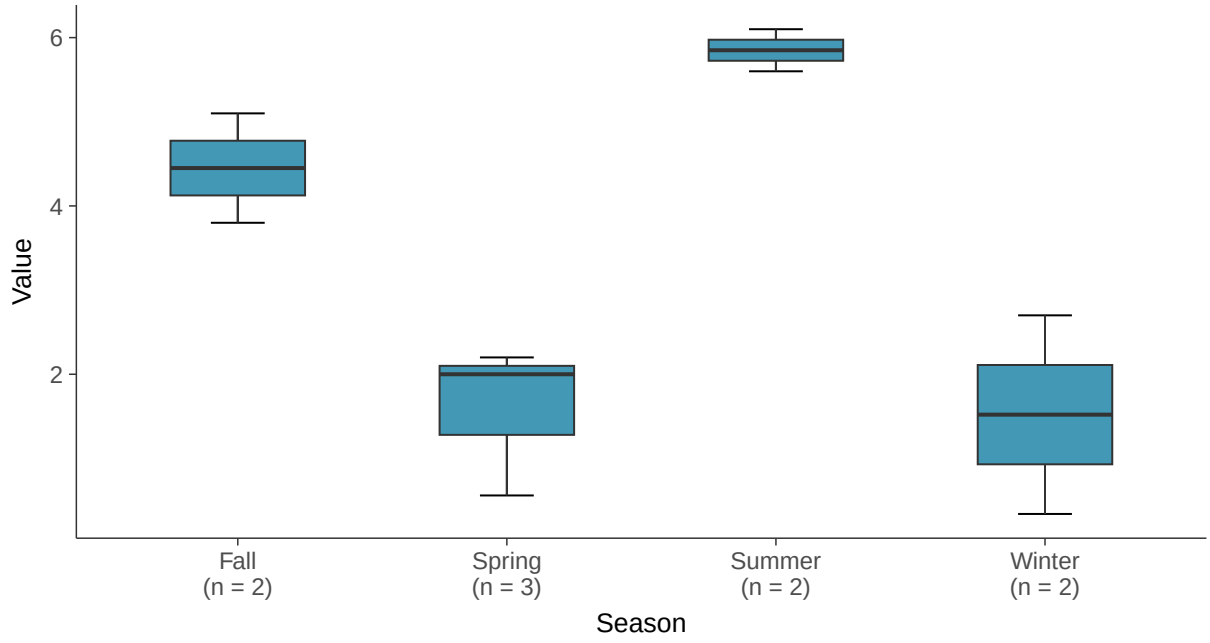
Boxplot

Boron, MW-28 (mg/L)



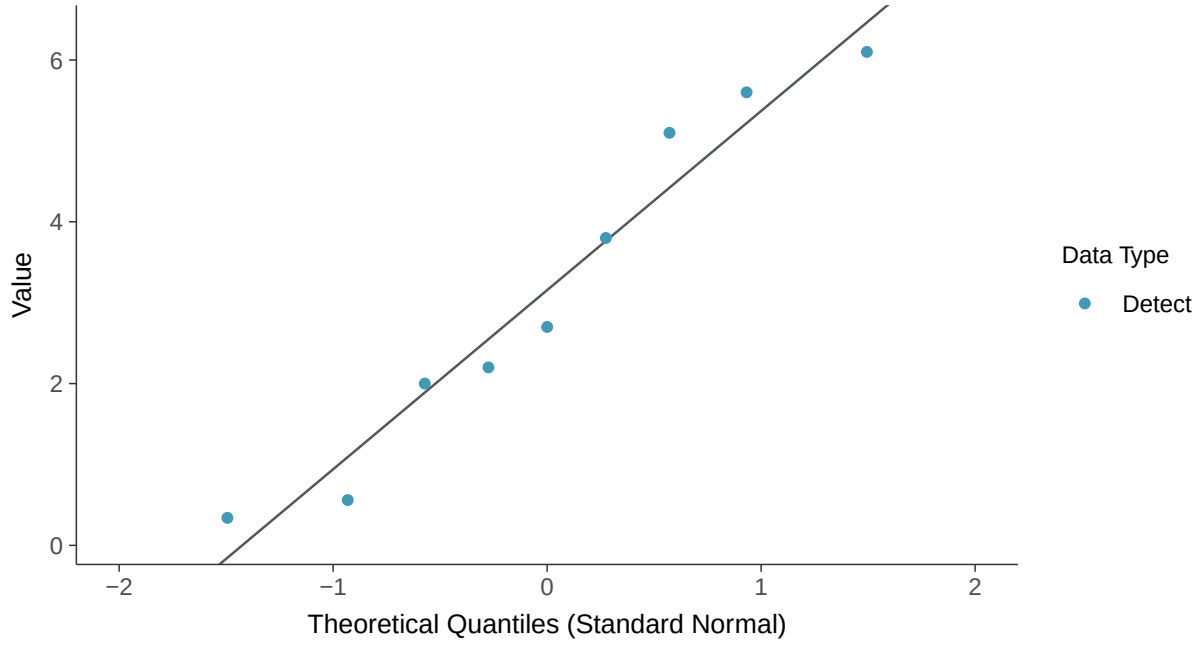
Boxplot by Season

Boron, MW-28 (mg/L)



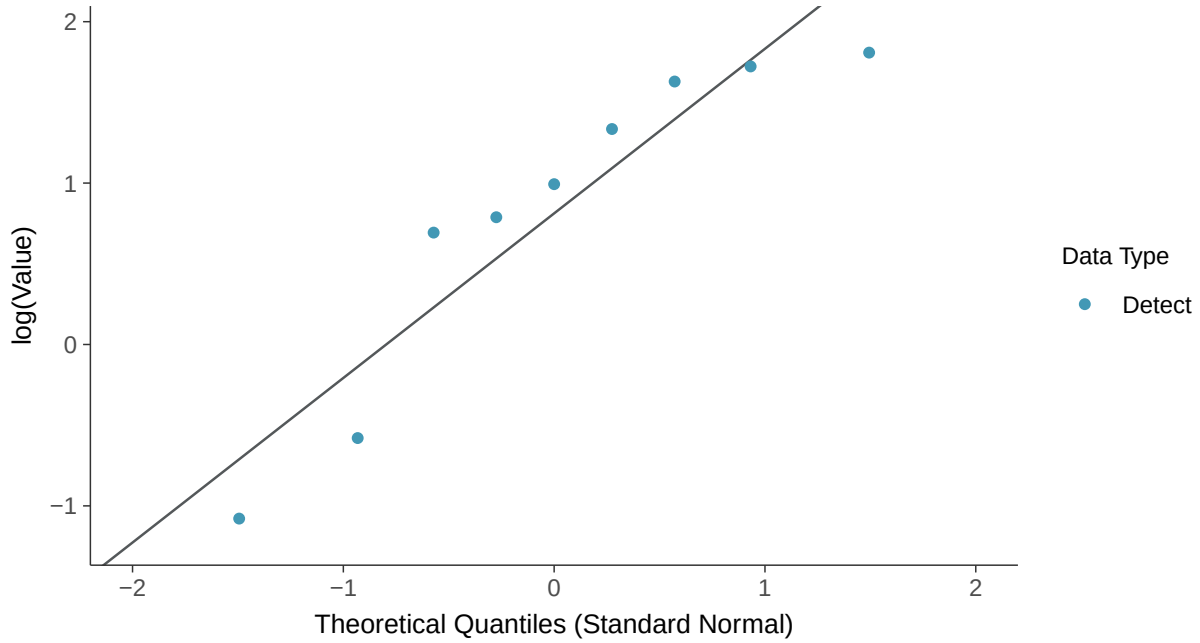
Normal Q-Q plot

Boron, MW-28 (mg/L)



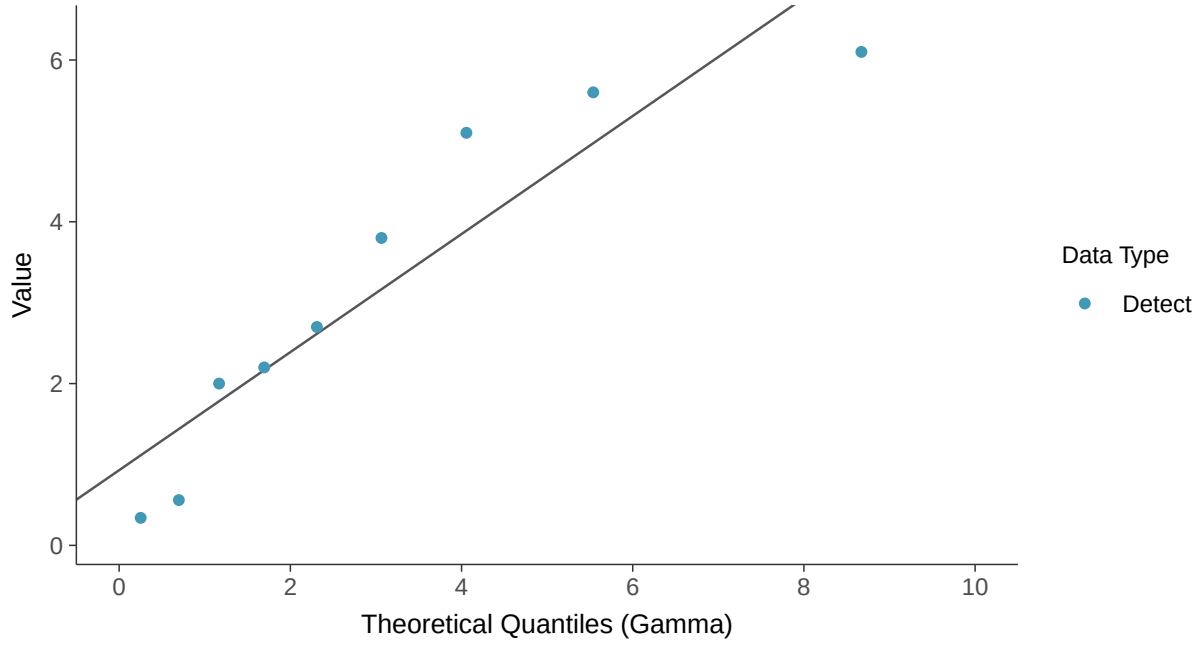
Lognormal Q-Q plot

Boron, MW-28 (mg/L)



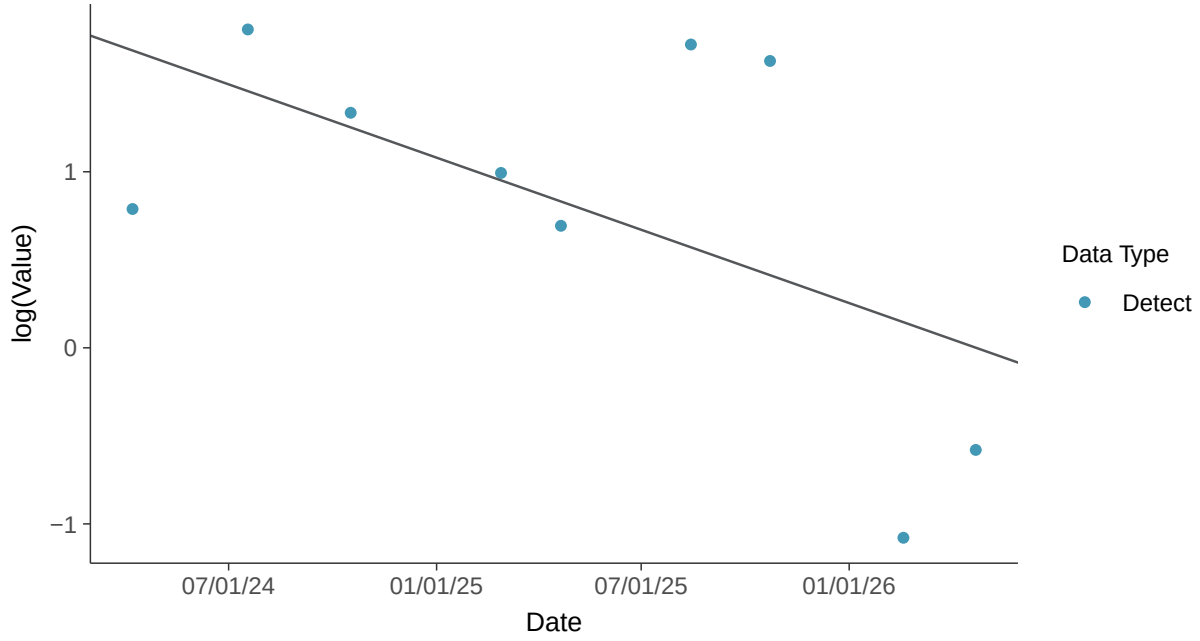
Gamma Q-Q plot

Boron, MW-28 (mg/L)



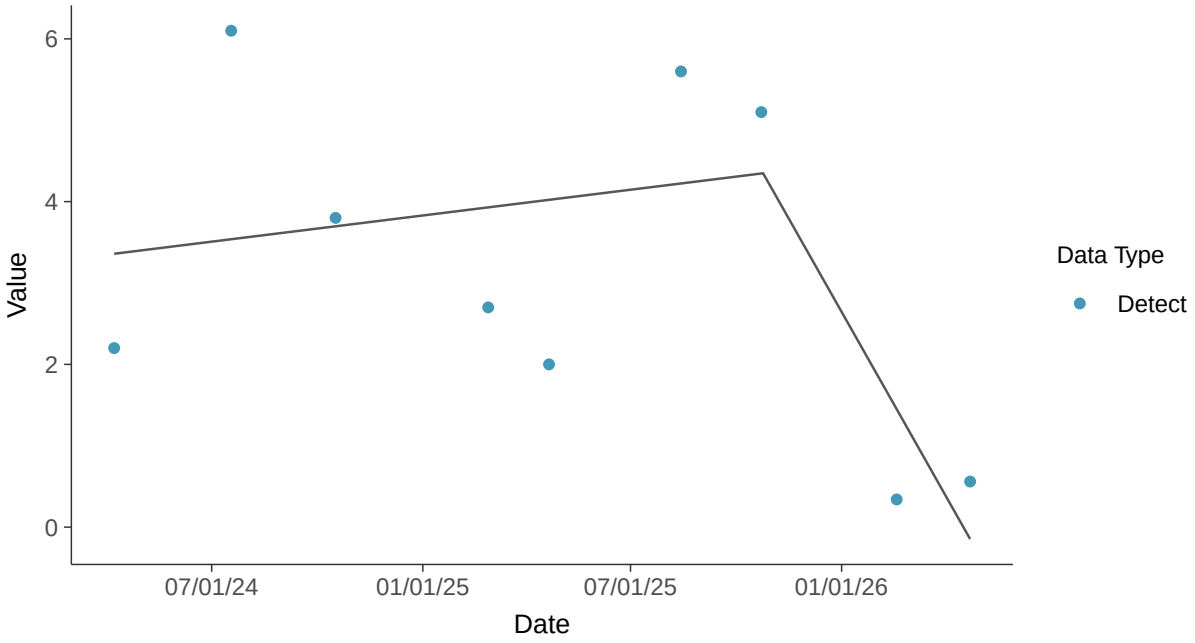
Trend Regression: Lognormal MLE

Boron, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-28 (mg/L)

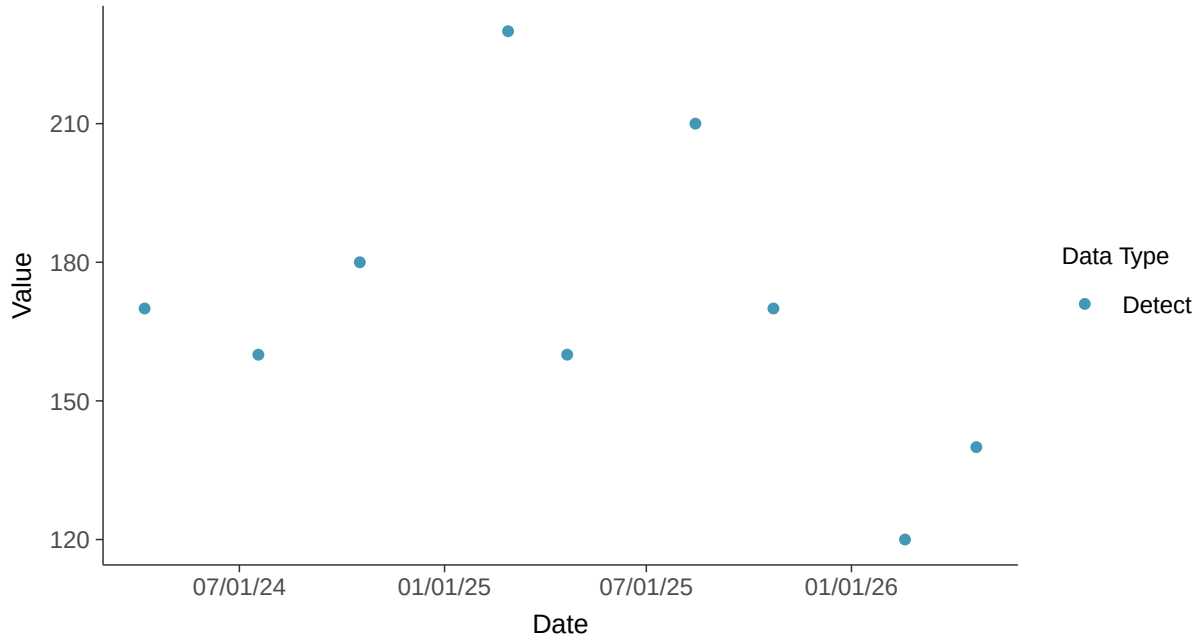


Appendix III: Calcium, MW-28

ID: 38_1_3_107

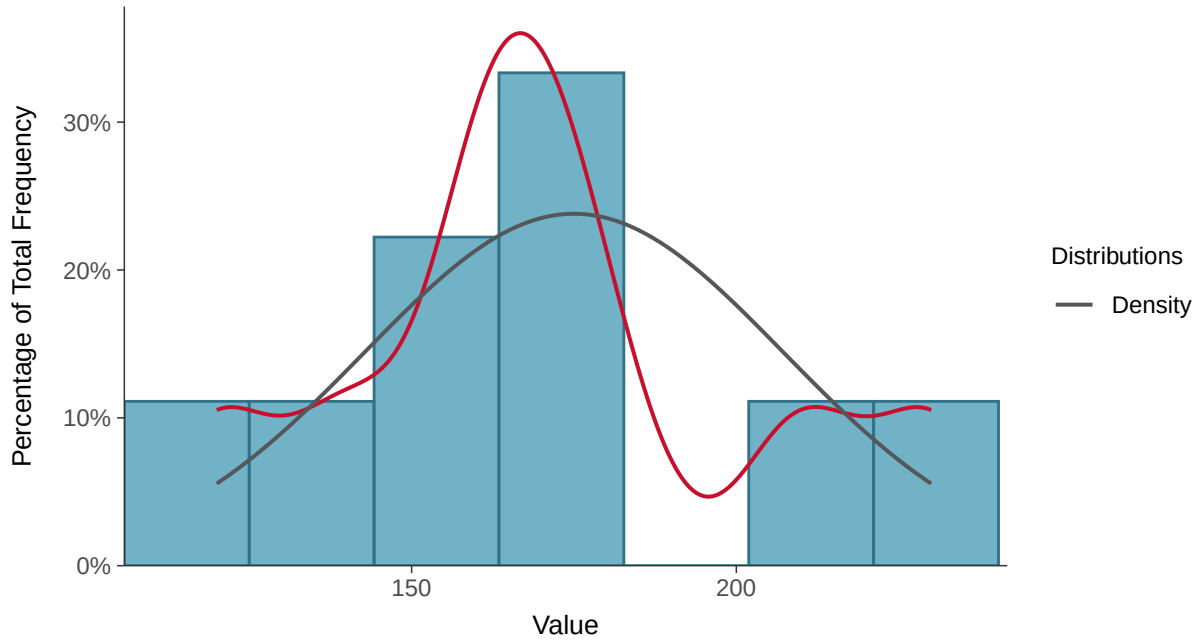
Scatter Plot

Calcium, MW-28 (mg/L)



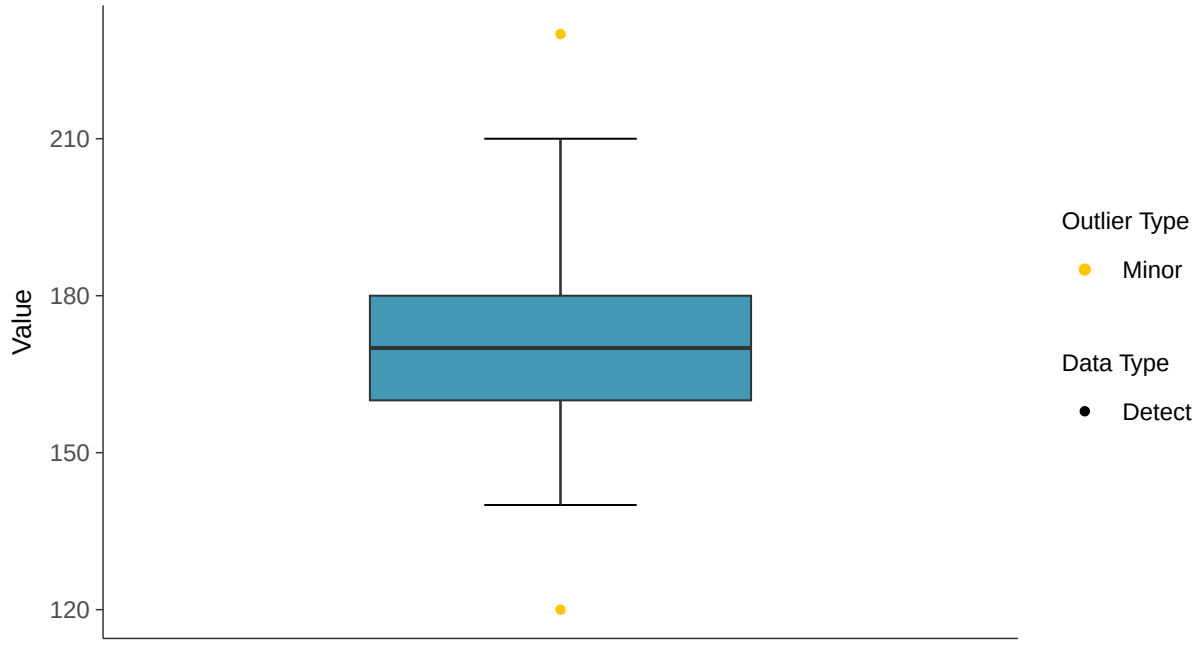
Histogram

Calcium, MW-28 (mg/L)



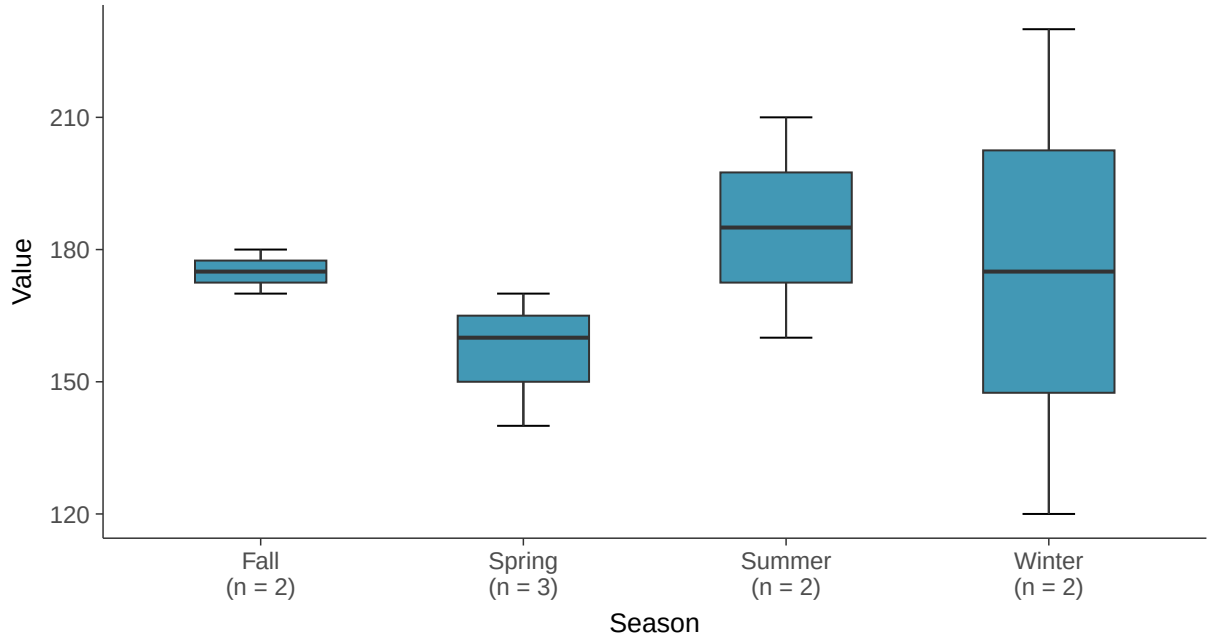
Boxplot

Calcium, MW-28 (mg/L)



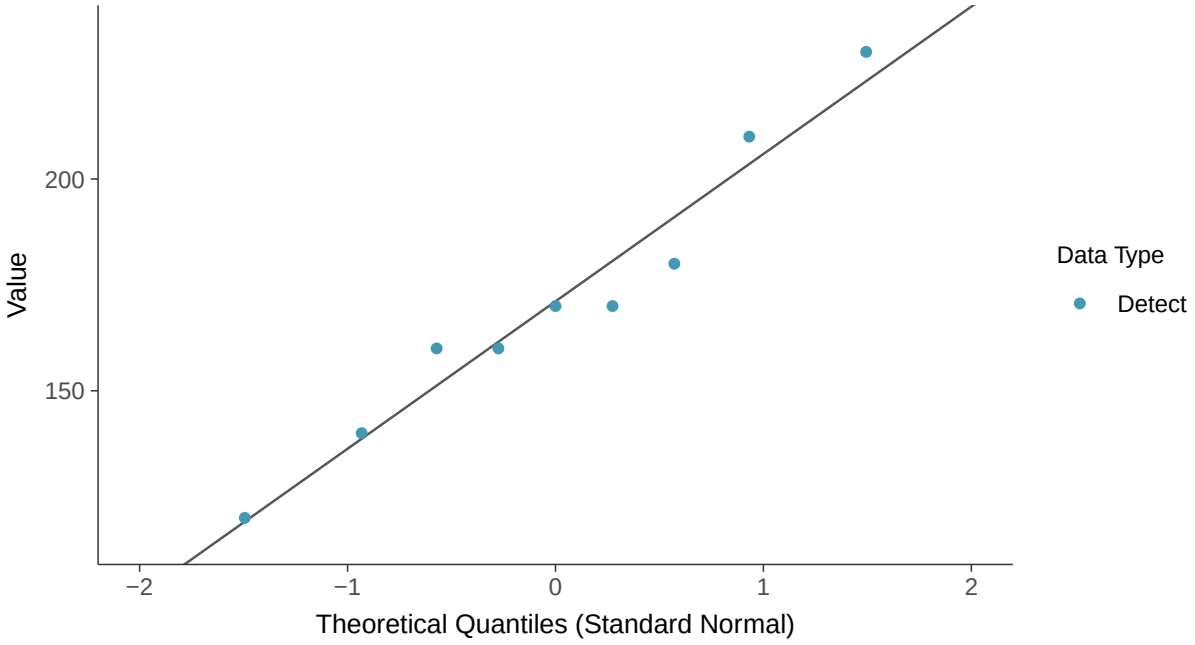
Boxplot by Season

Calcium, MW-28 (mg/L)



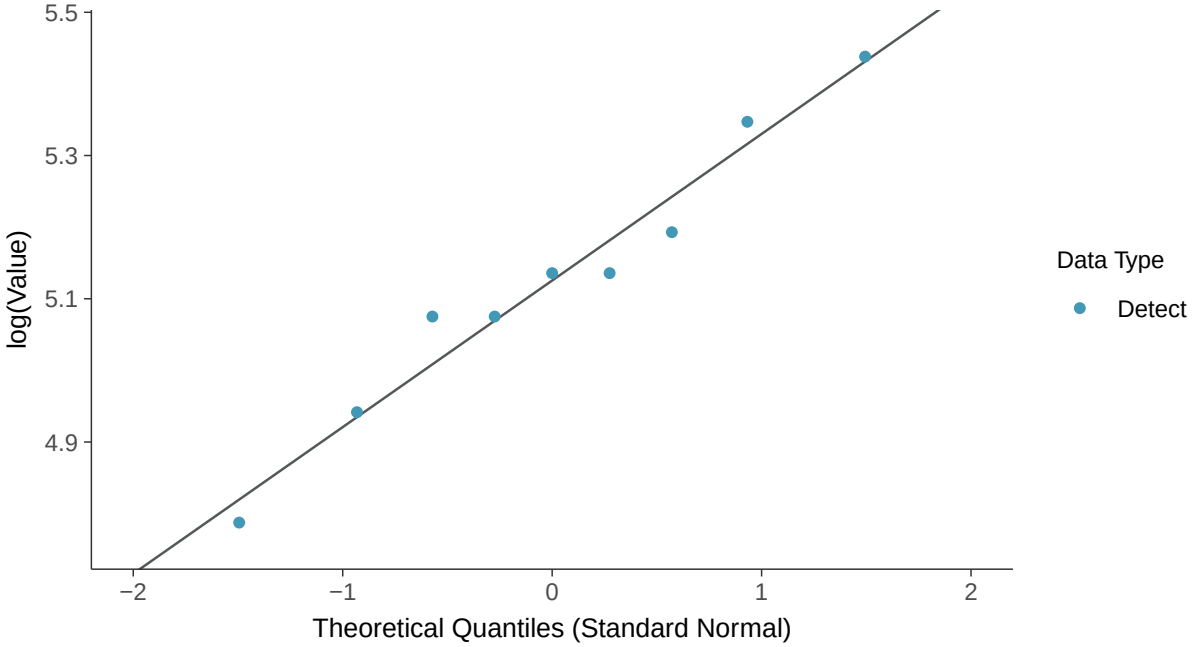
Normal Q-Q plot

Calcium, MW-28 (mg/L)



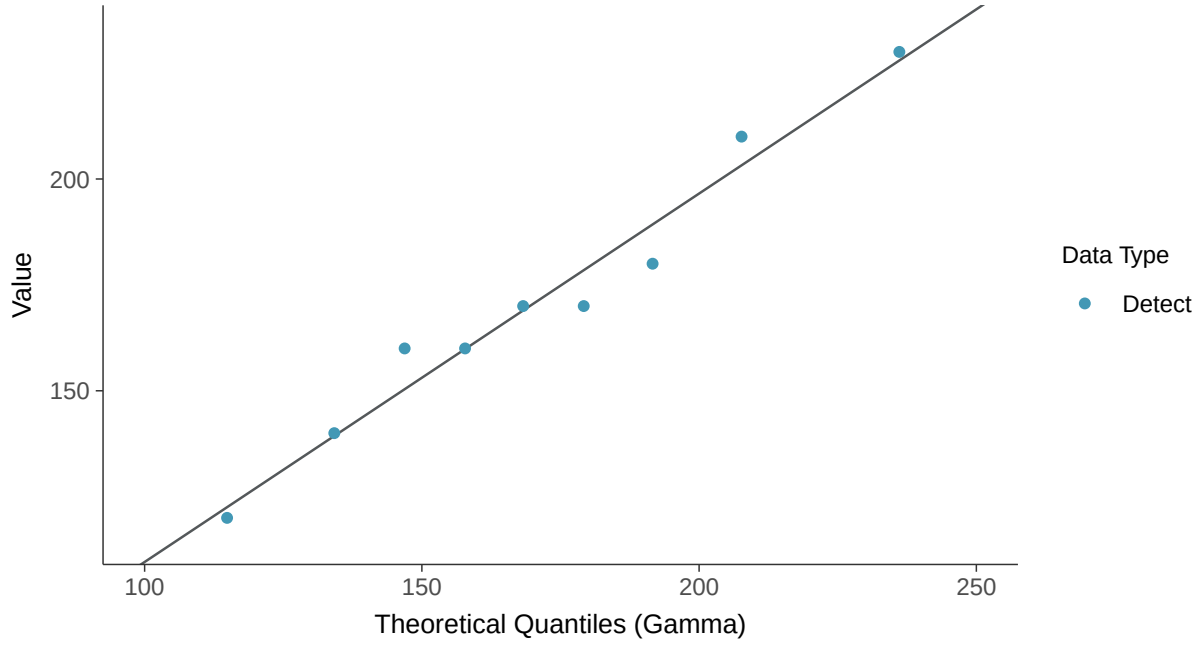
Lognormal Q-Q plot

Calcium, MW-28 (mg/L)



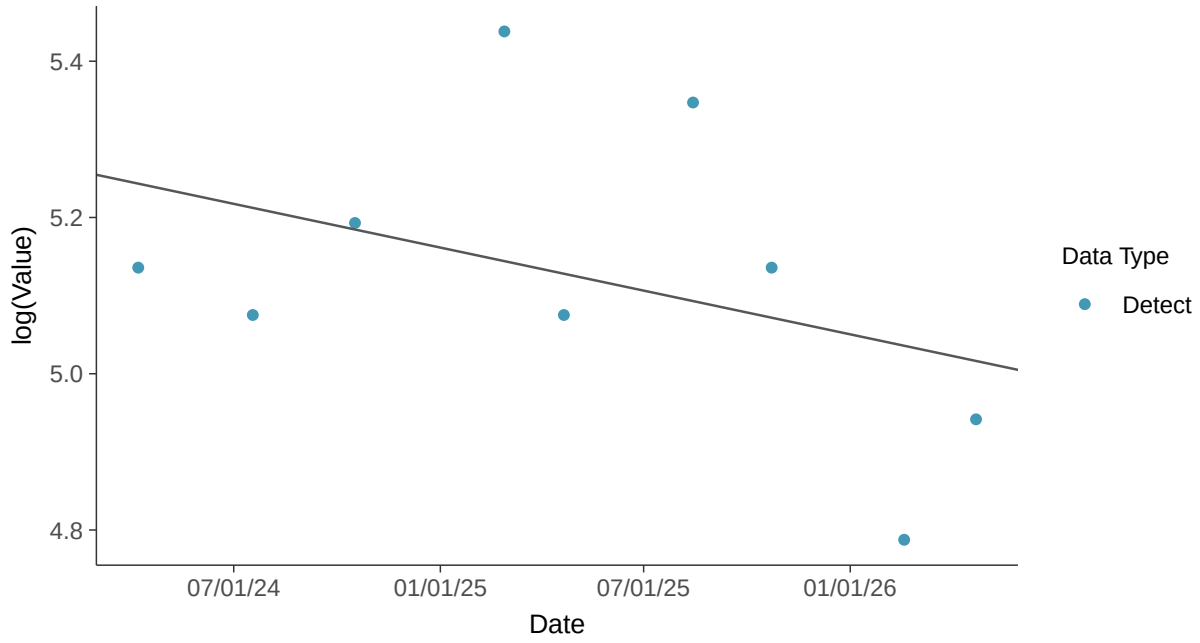
Gamma Q-Q plot

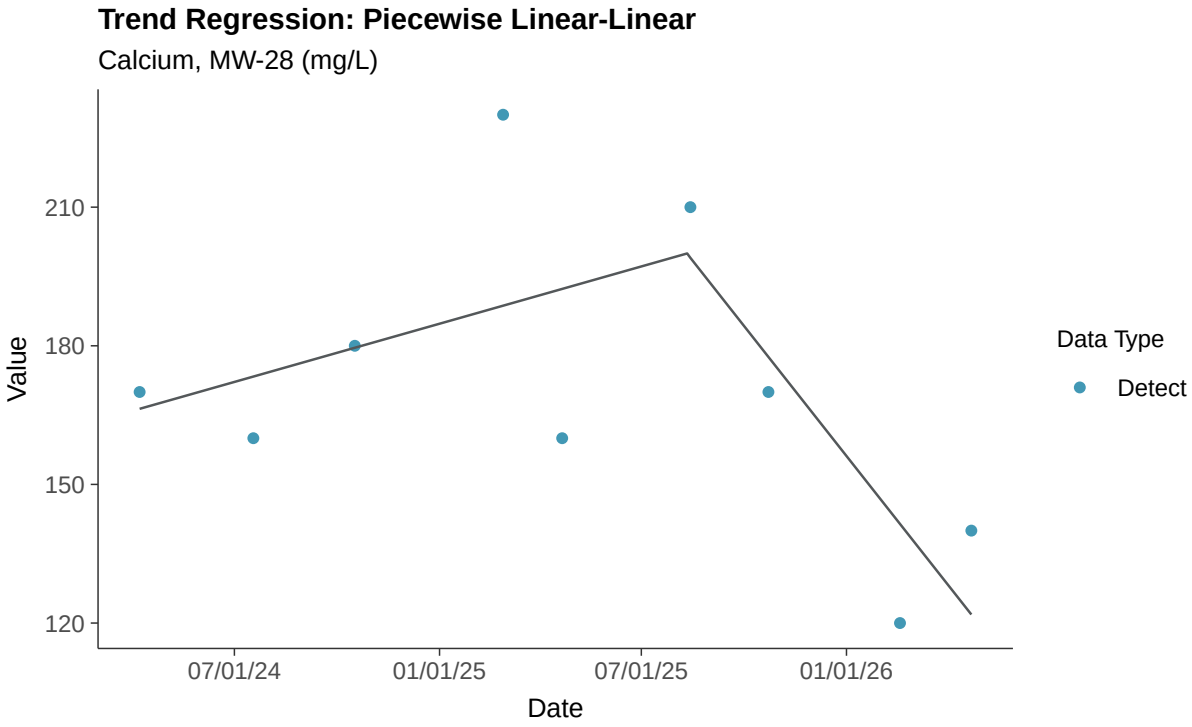
Calcium, MW-28 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-28 (mg/L)



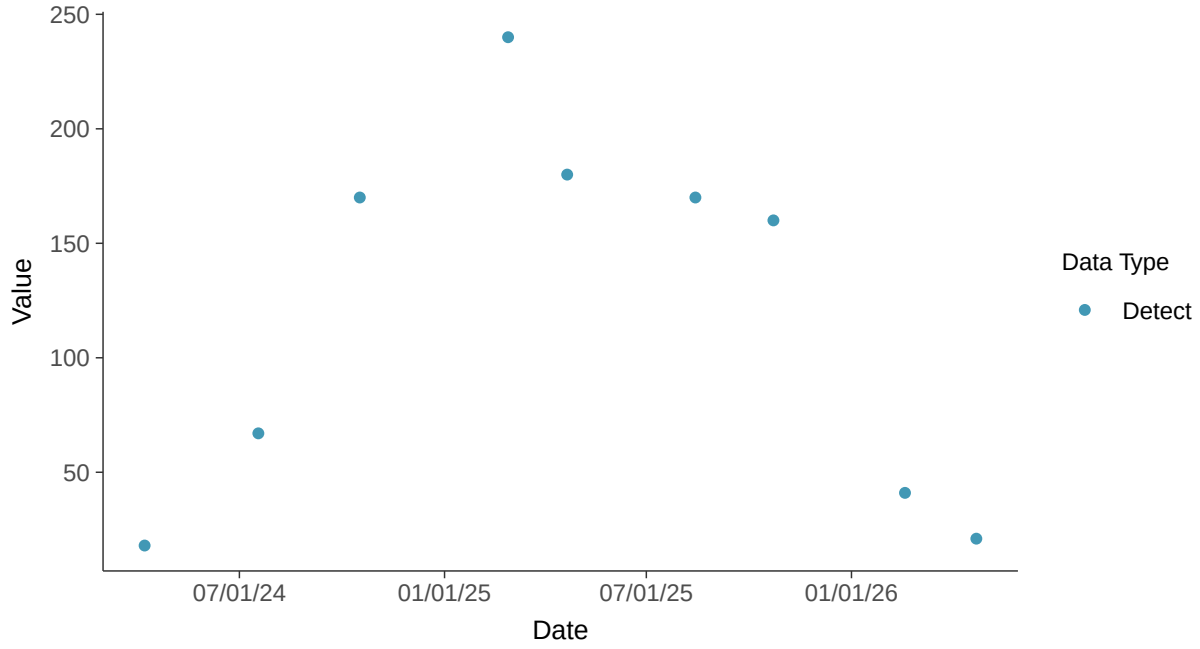

Trend Regression: Piecewise Linear-Linear
Calcium, MW-28 (mg/L)
Value
210
180
150
120
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Chloride (as Cl), MW-28

ID: 38_1_3_108

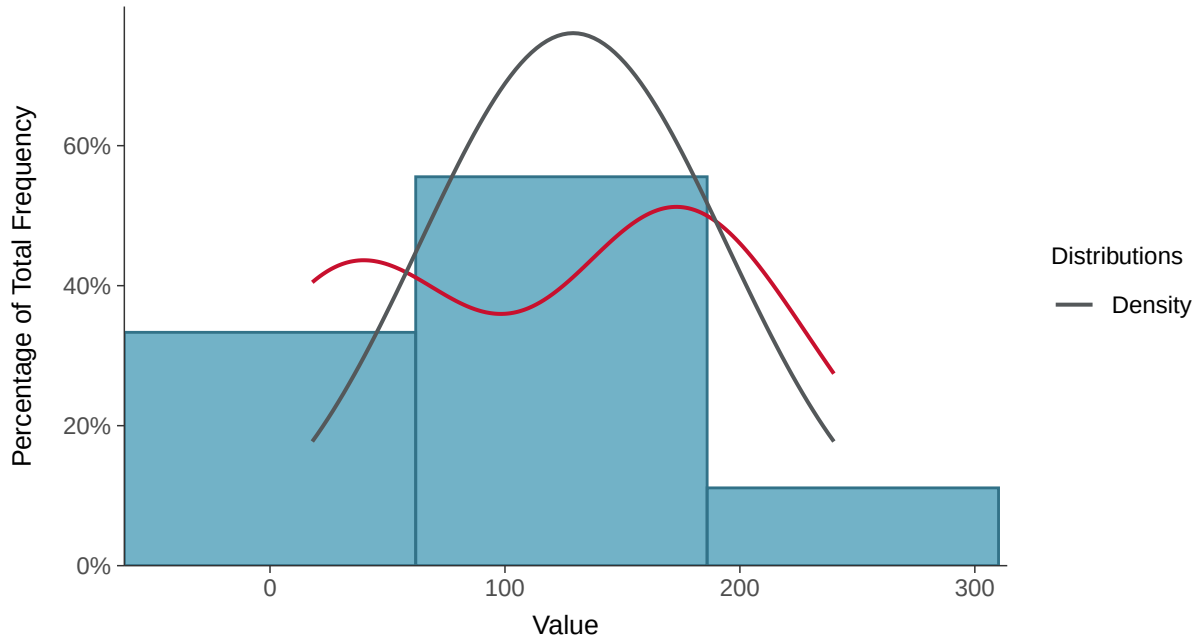
Scatter Plot

Chloride (as Cl), MW-28 (mg/L)



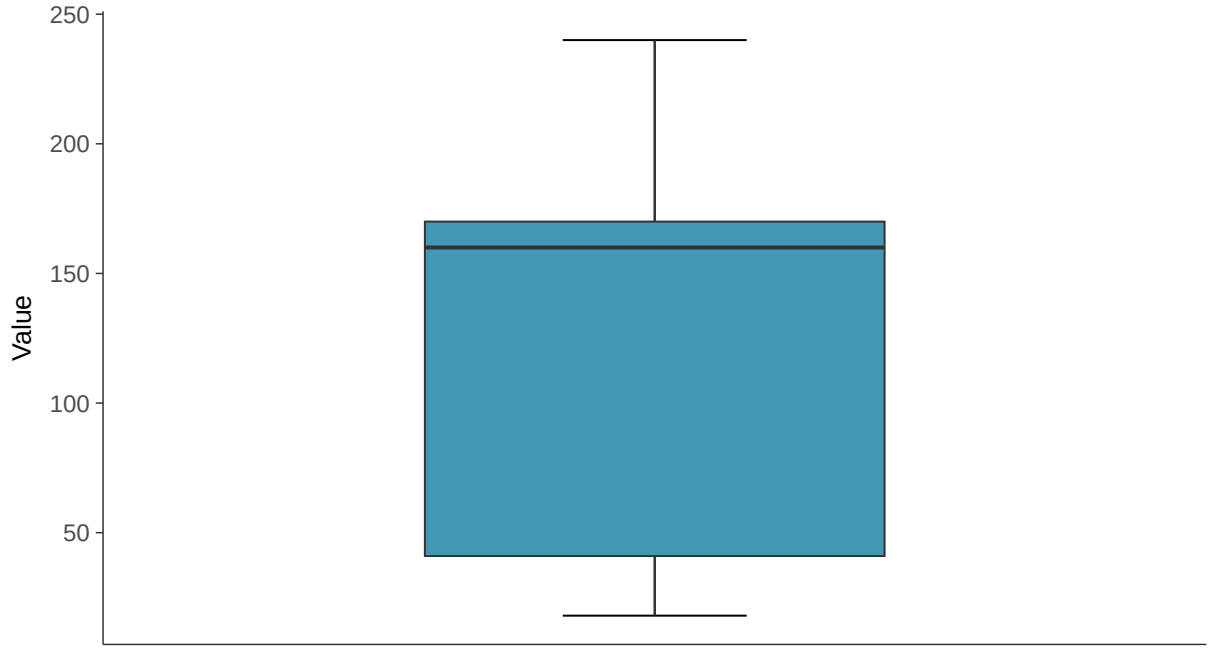
Histogram

Chloride (as Cl), MW-28 (mg/L)



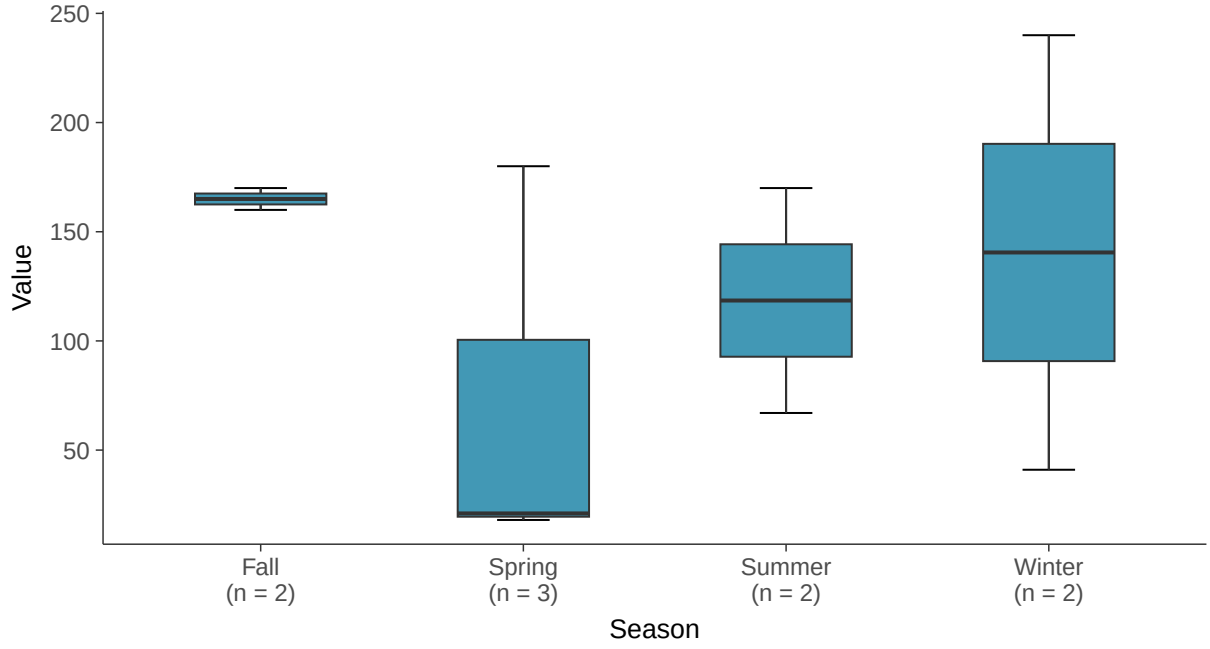
Boxplot

Chloride (as Cl), MW-28 (mg/L)



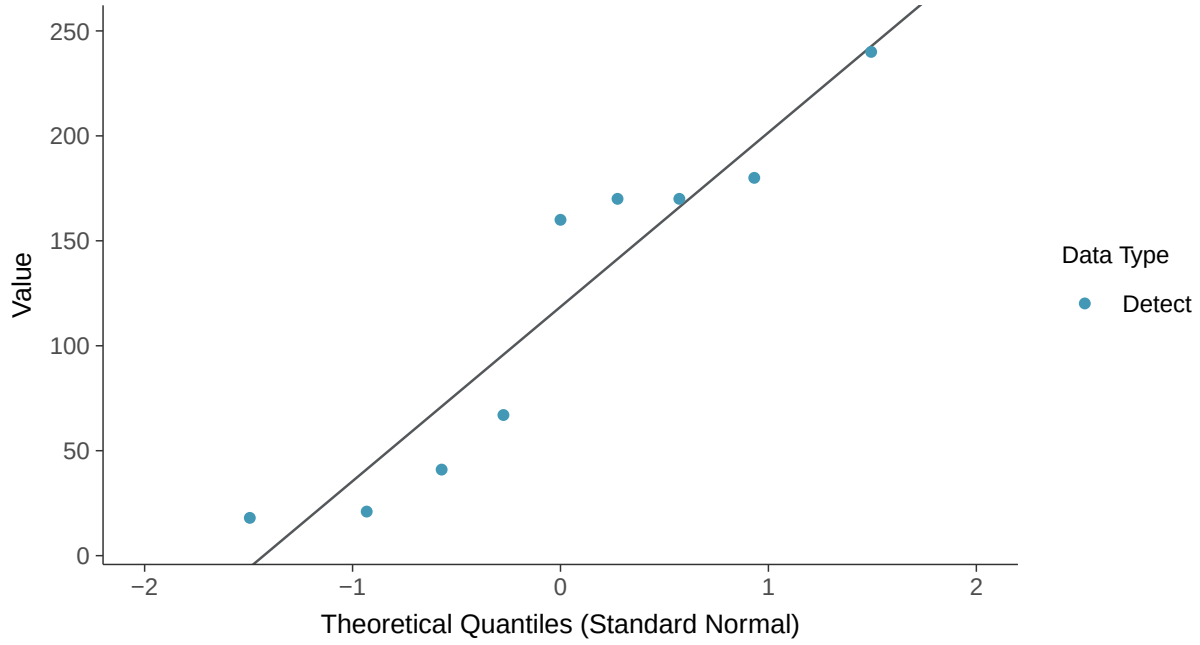
Boxplot by Season

Chloride (as Cl), MW-28 (mg/L)



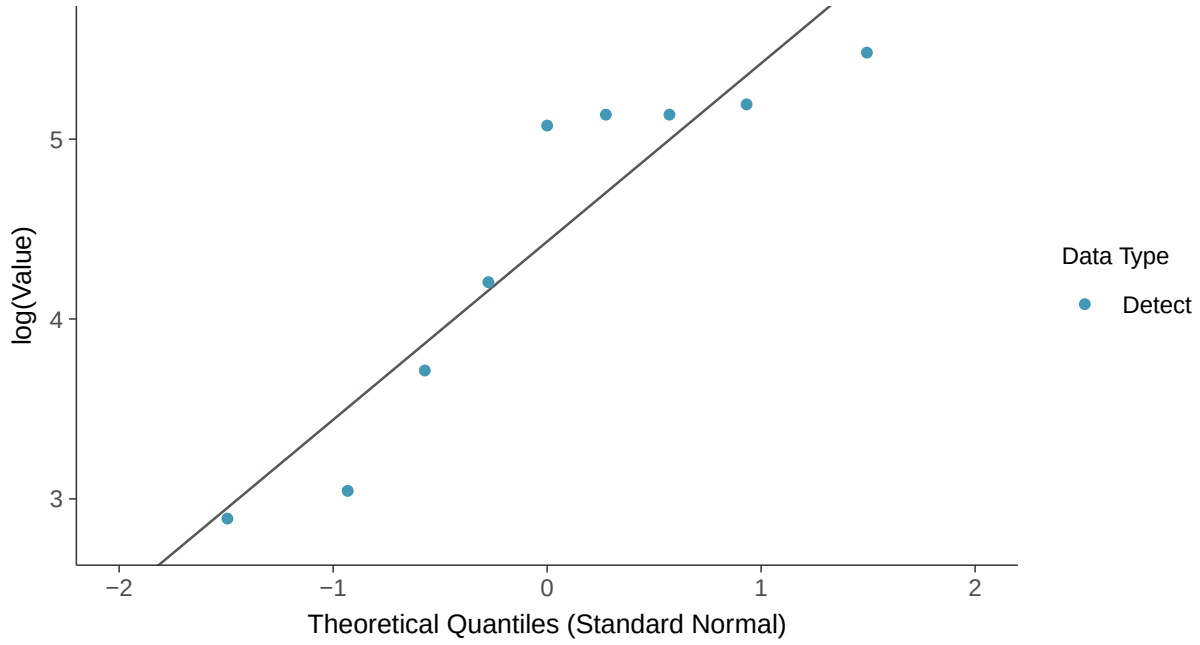
Normal Q-Q plot

Chloride (as Cl), MW-28 (mg/L)



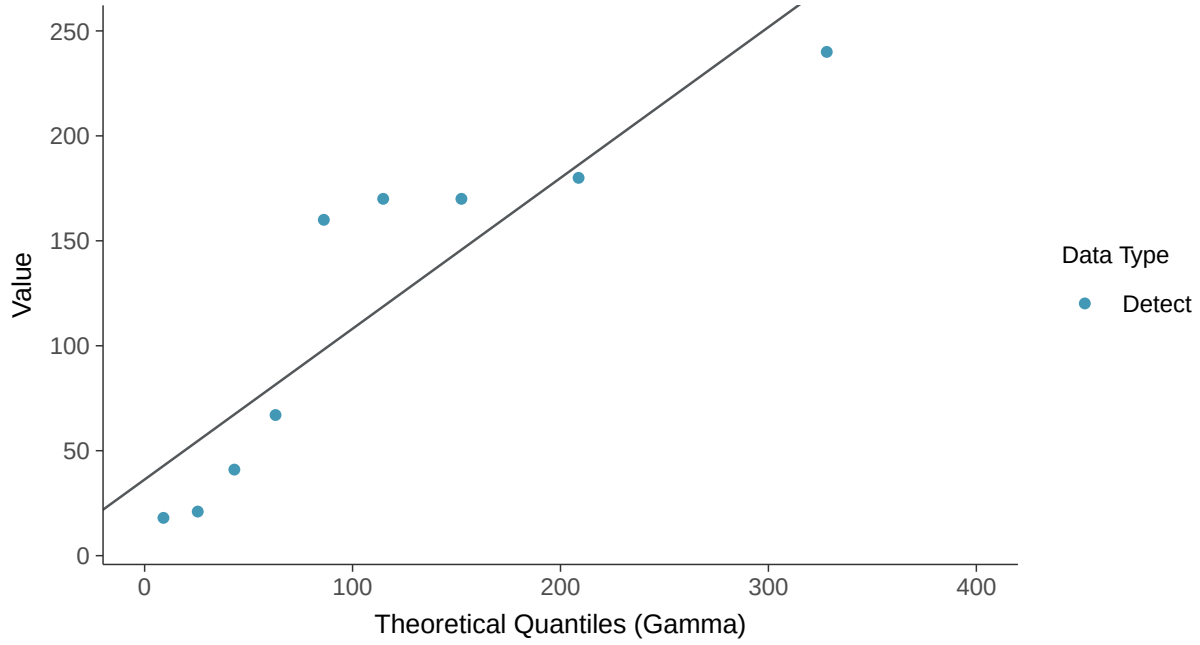
Lognormal Q-Q plot

Chloride (as Cl), MW-28 (mg/L)



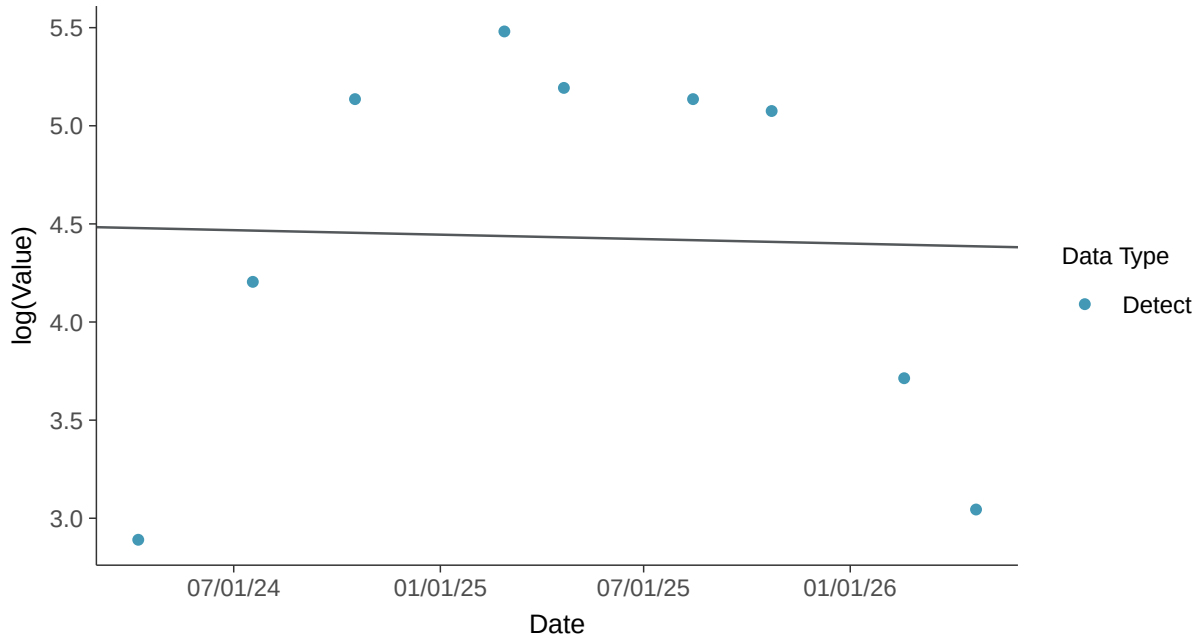
Gamma Q-Q plot

Chloride (as Cl), MW-28 (mg/L)



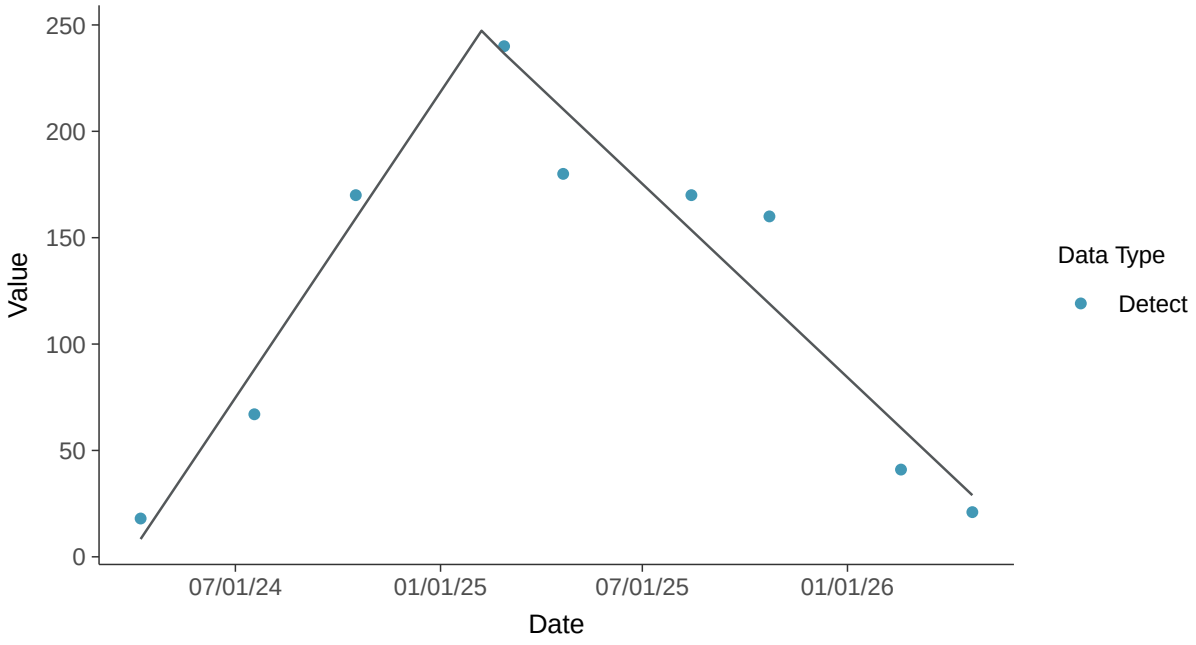
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-28 (mg/L)



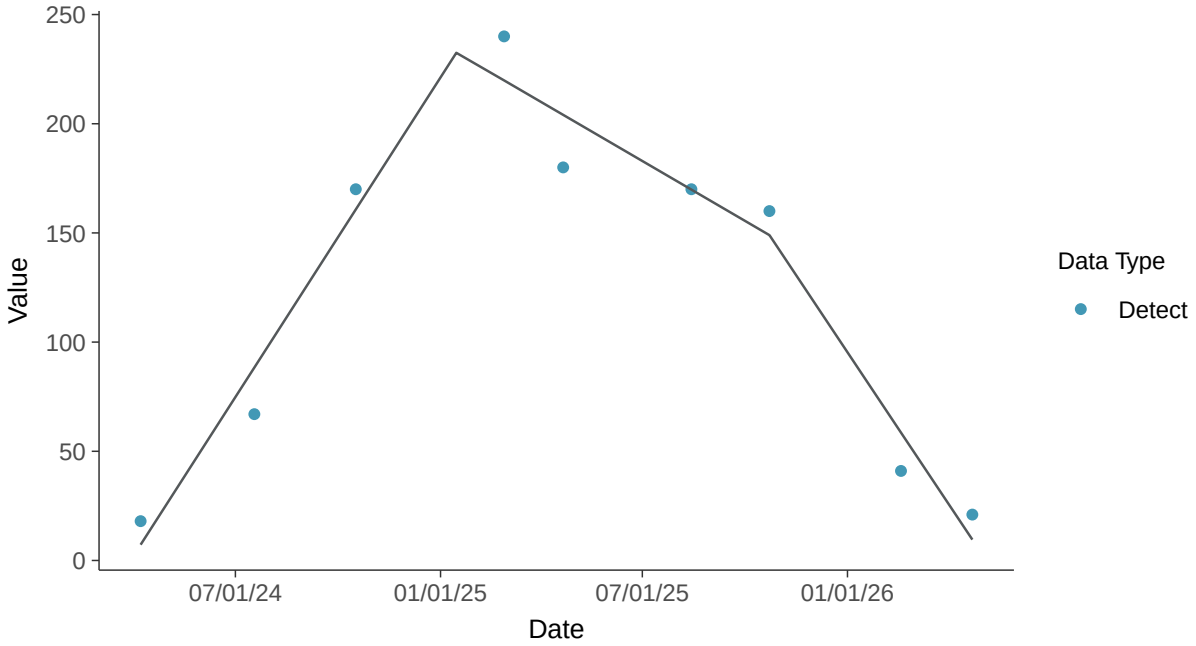
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-28 (mg/L)



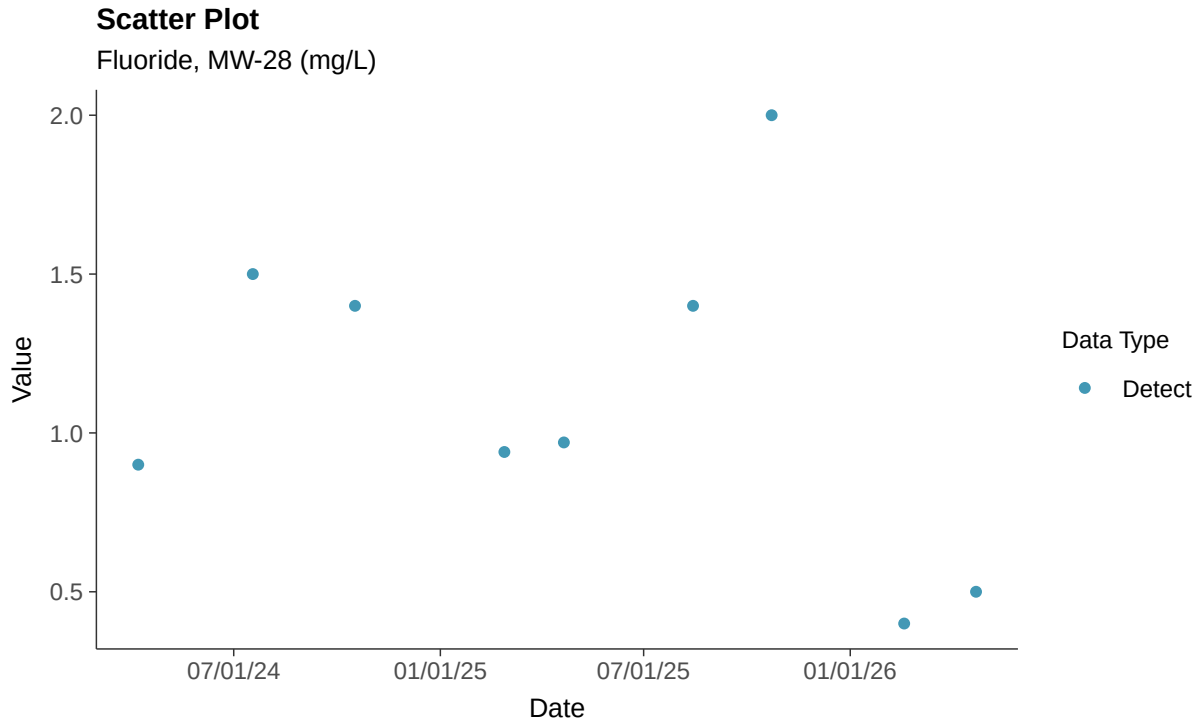
Trend Regression: Piecewise Linear-Linear-Linear

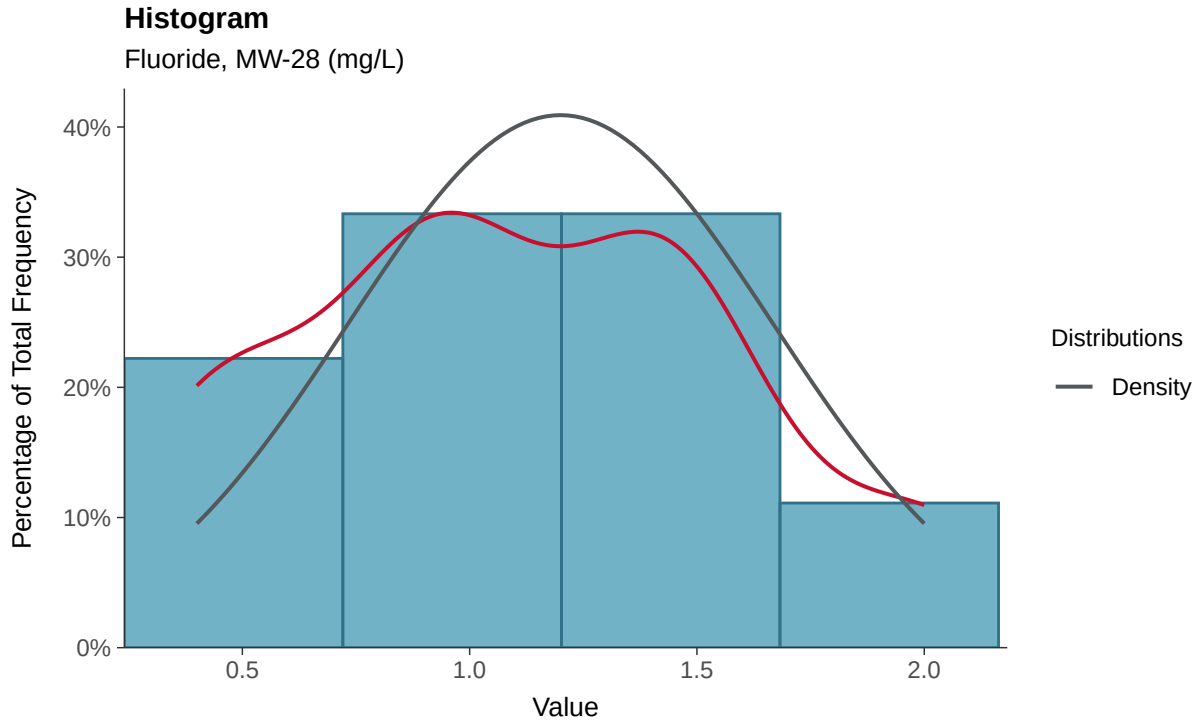
Chloride (as Cl), MW-28 (mg/L)



Appendix III: Fluoride, MW-28

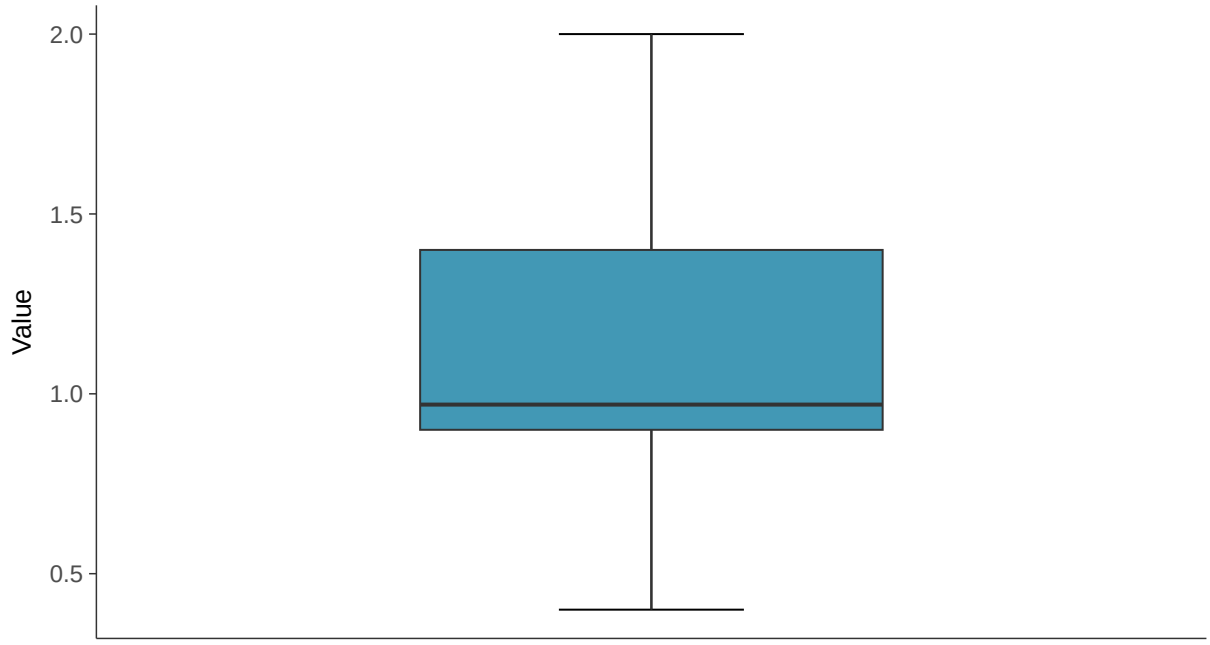
ID: 38_1_3_112





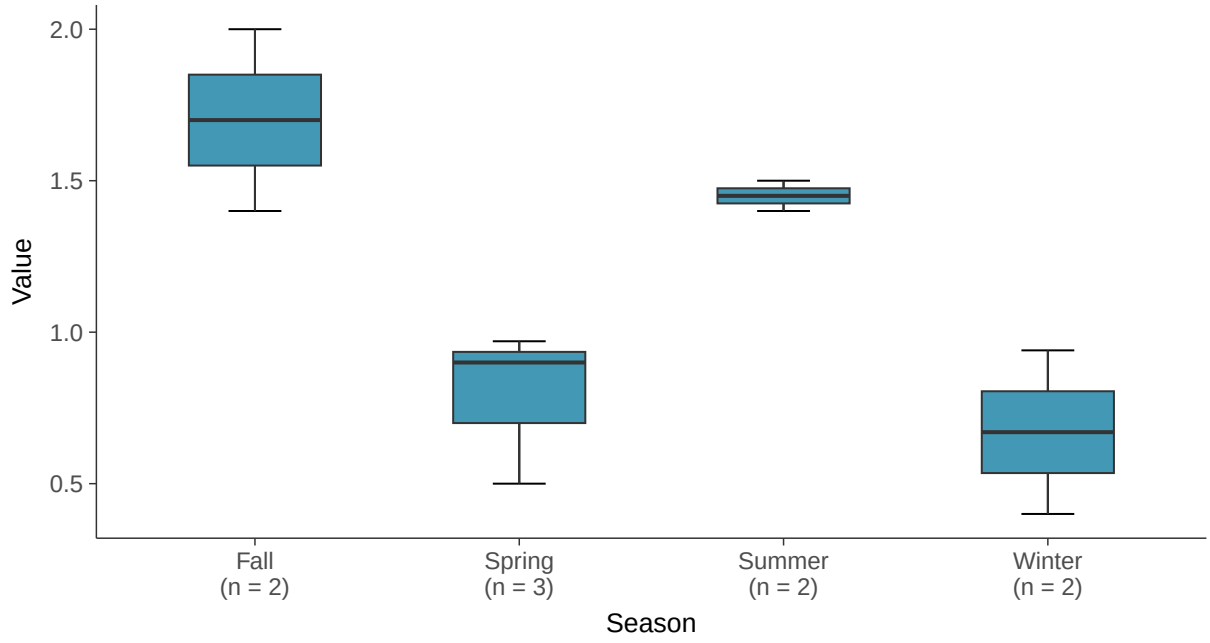
Boxplot

Fluoride, MW-28 (mg/L)



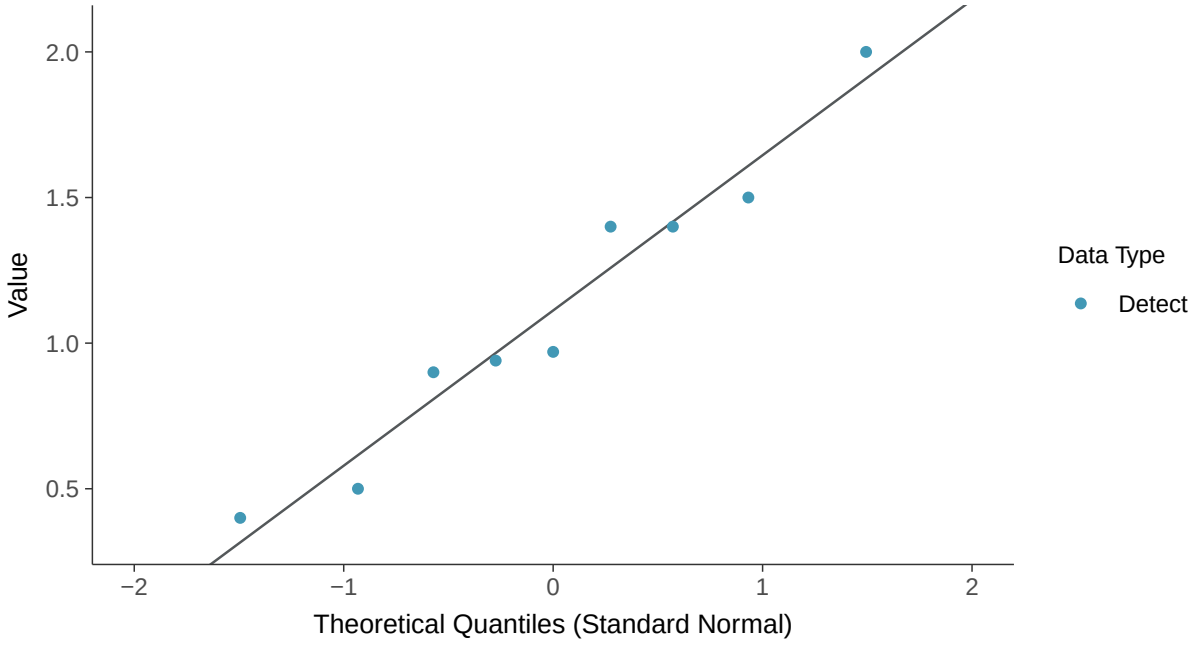
Boxplot by Season

Fluoride, MW-28 (mg/L)



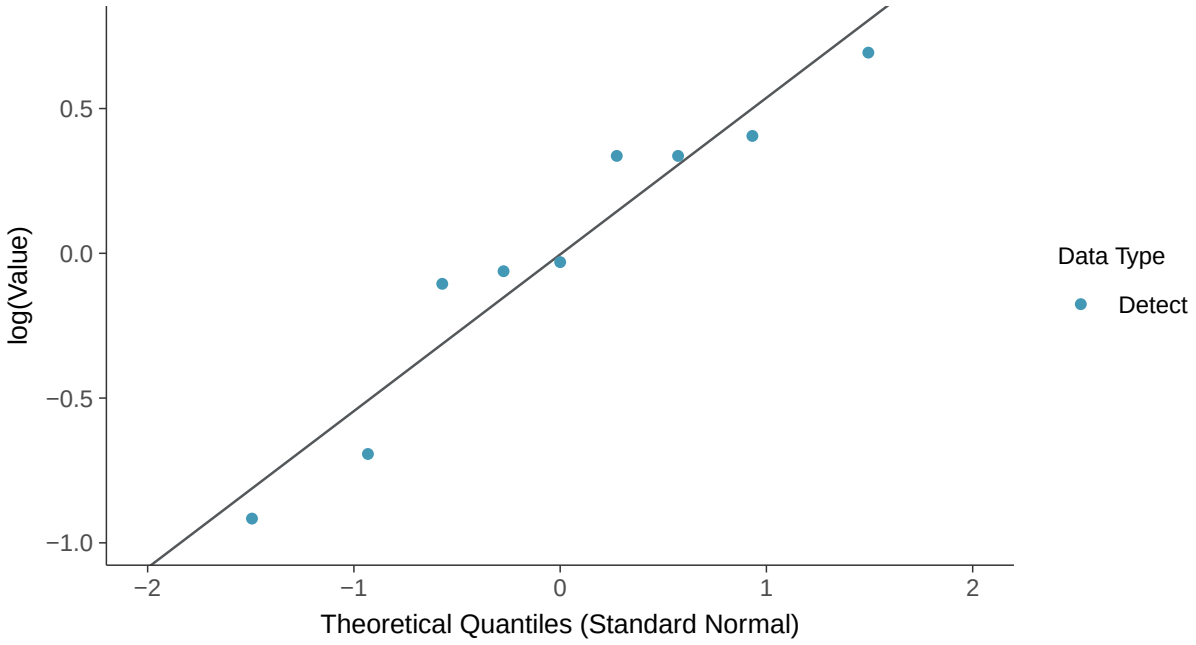
Normal Q-Q plot

Fluoride, MW-28 (mg/L)



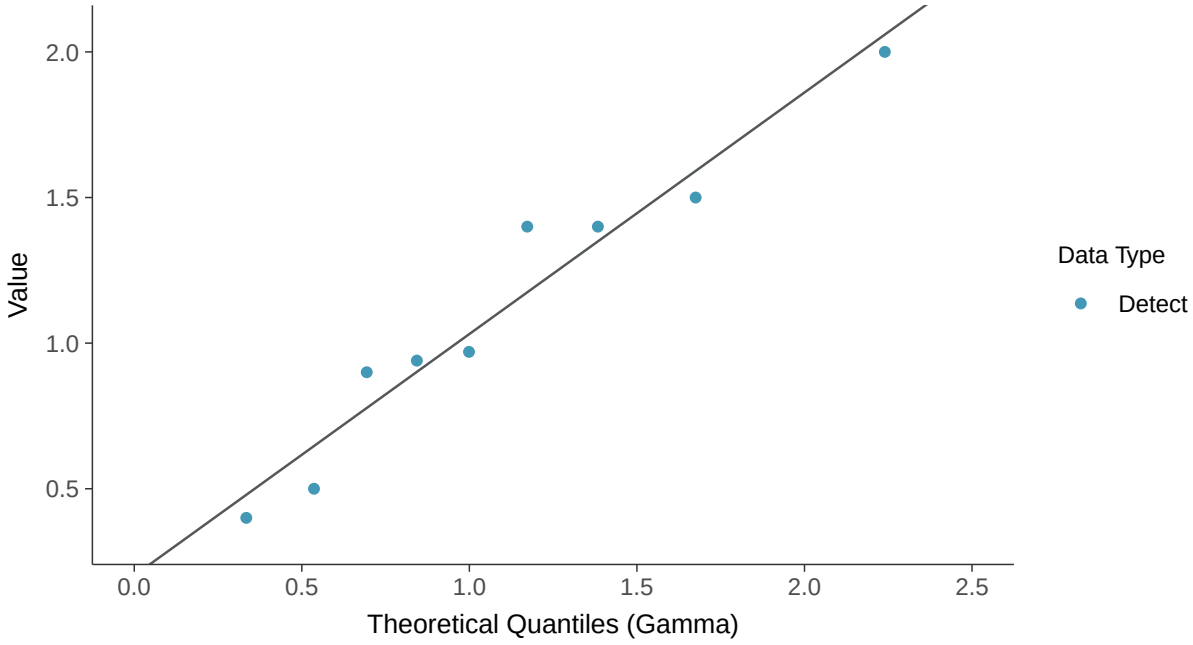
Lognormal Q-Q plot

Fluoride, MW-28 (mg/L)



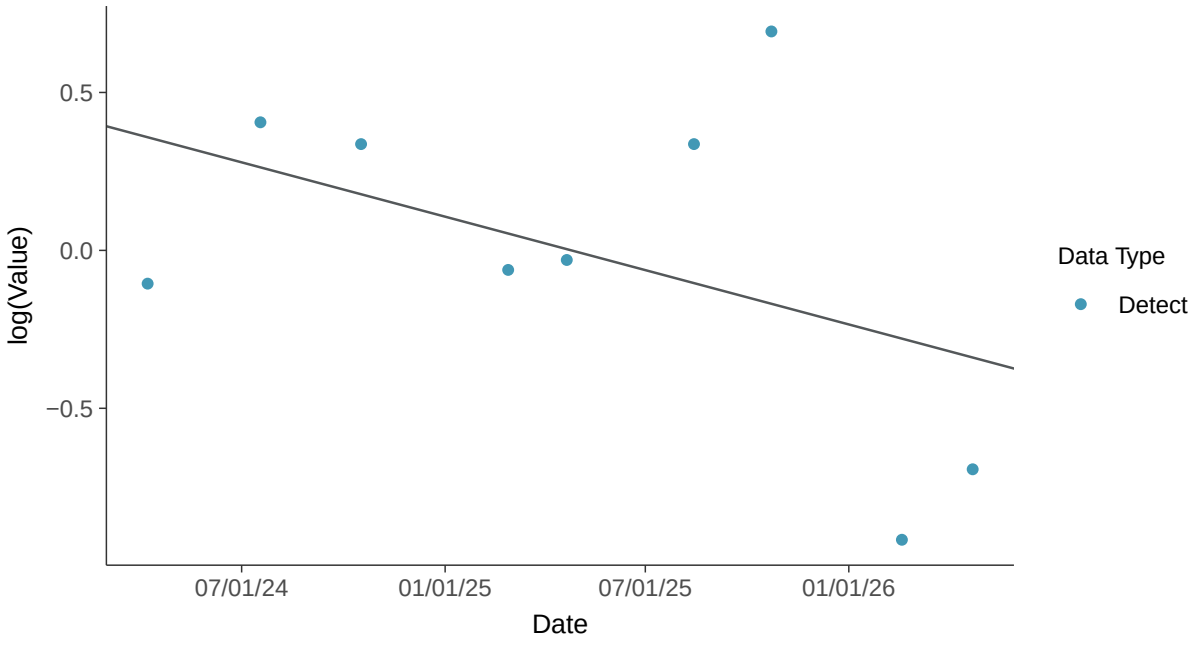
Gamma Q-Q plot

Fluoride, MW-28 (mg/L)



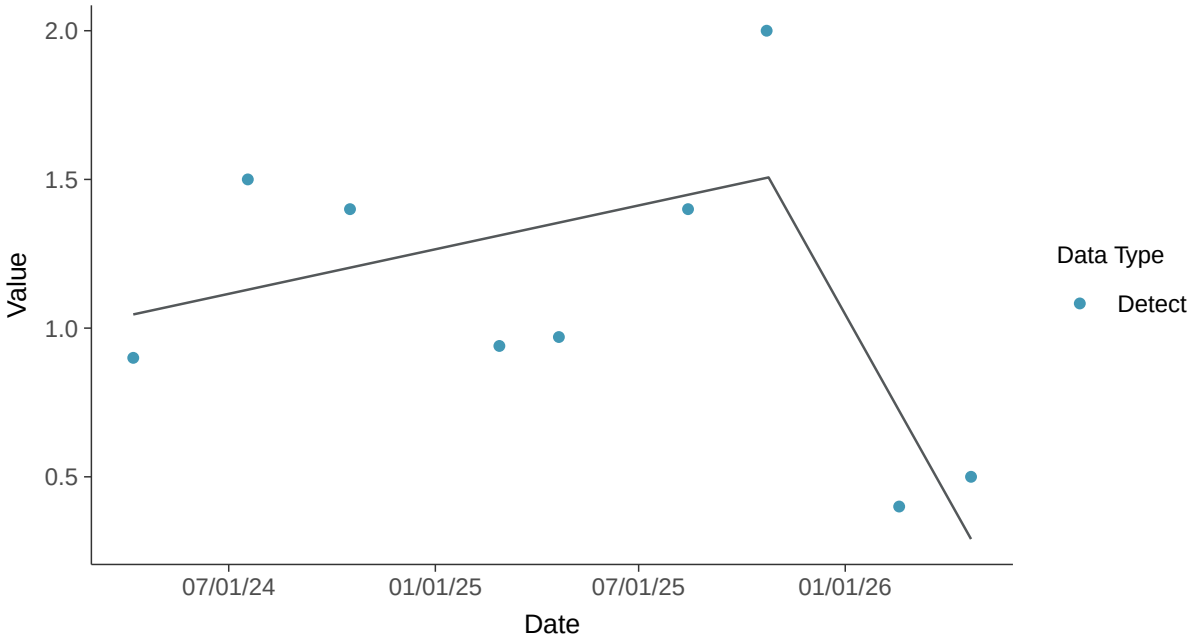
Trend Regression: Lognormal MLE

Fluoride, MW-28 (mg/L)



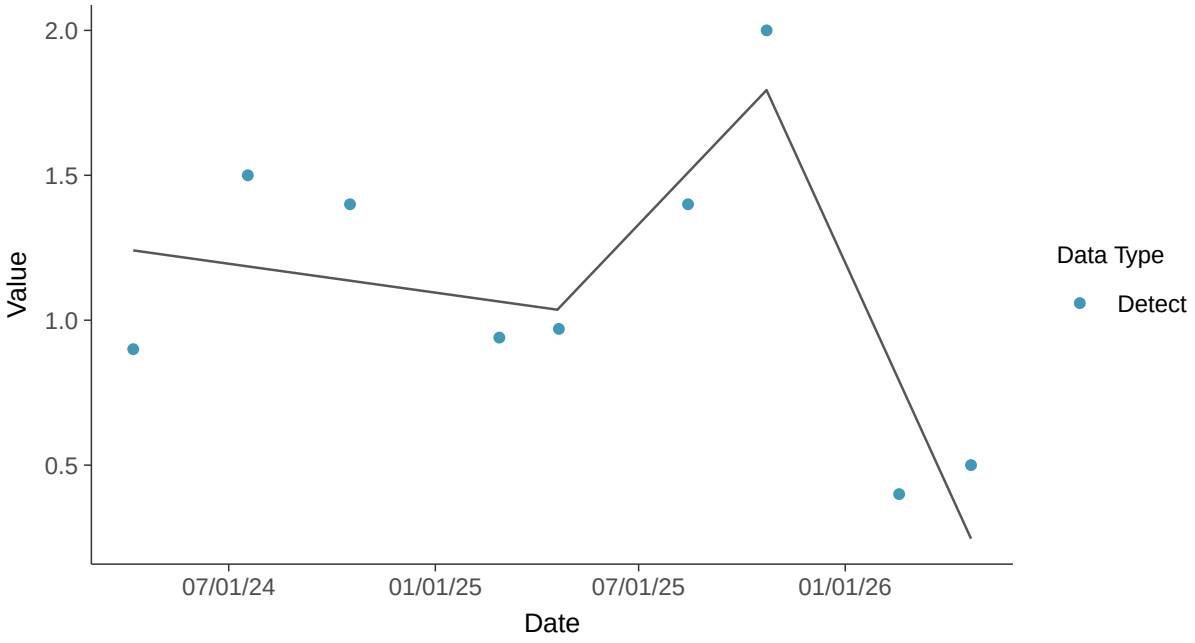
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-28 (mg/L)



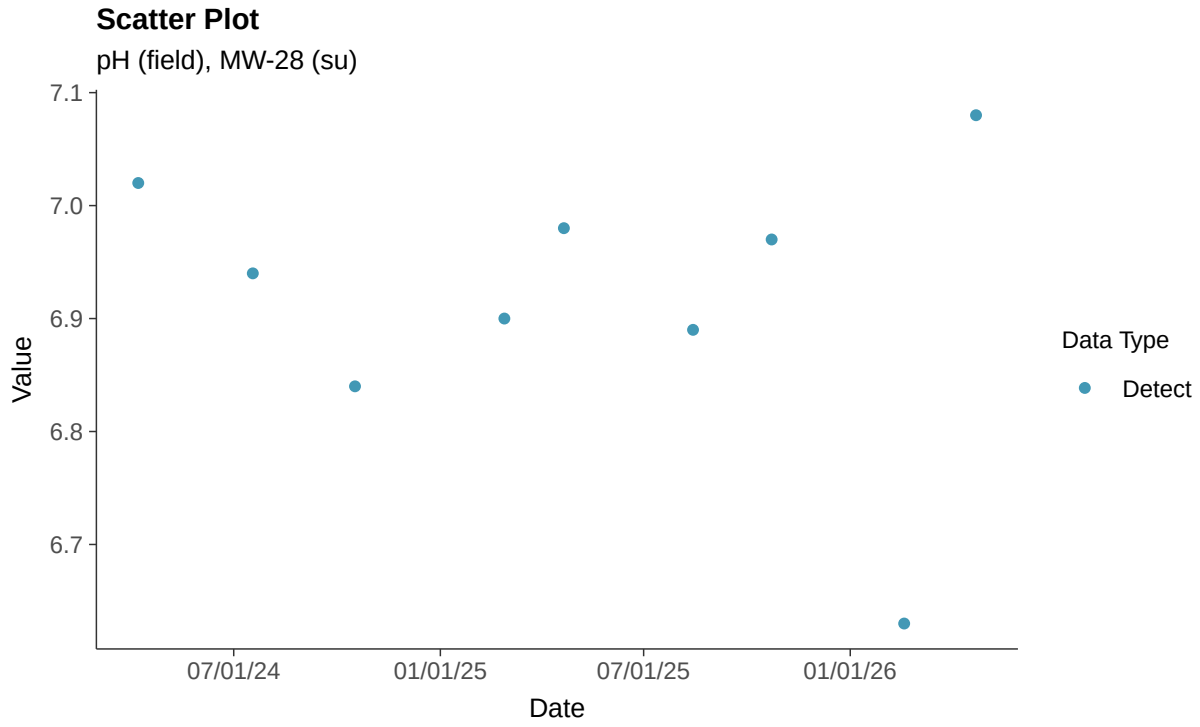
Trend Regression: Piecewise Linear-Linear-Linear

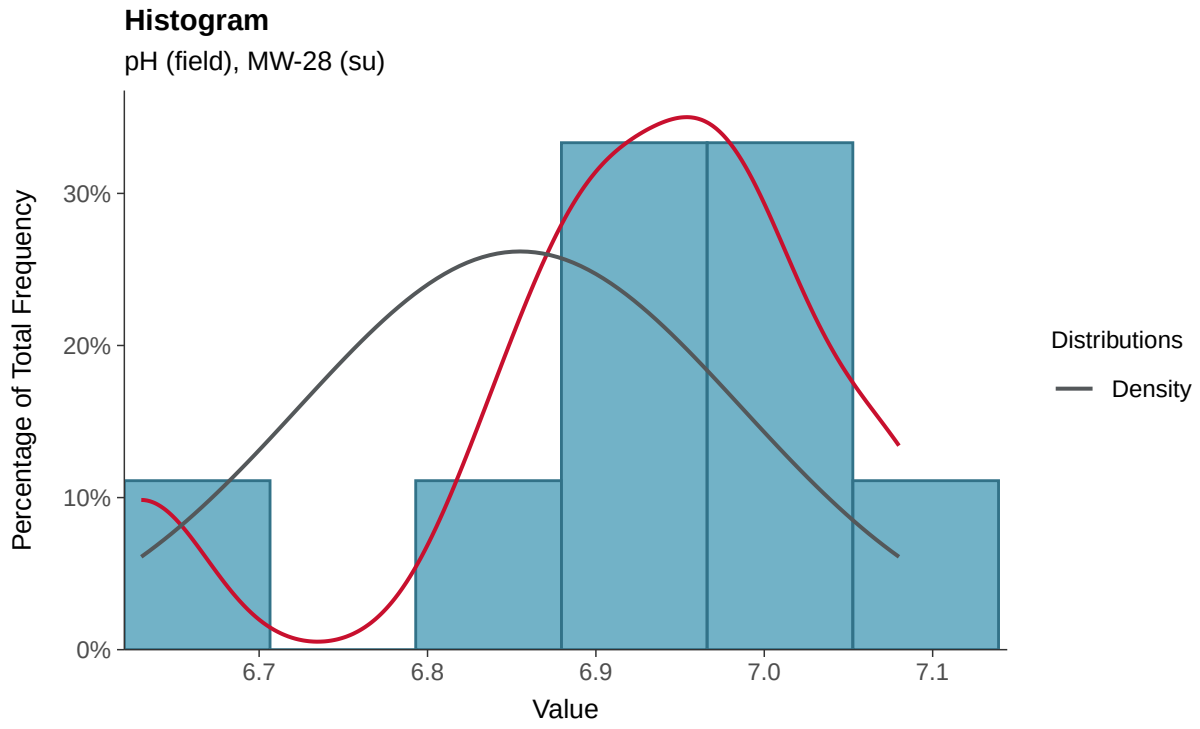
Fluoride, MW-28 (mg/L)



Appendix III: pH (field), MW-28

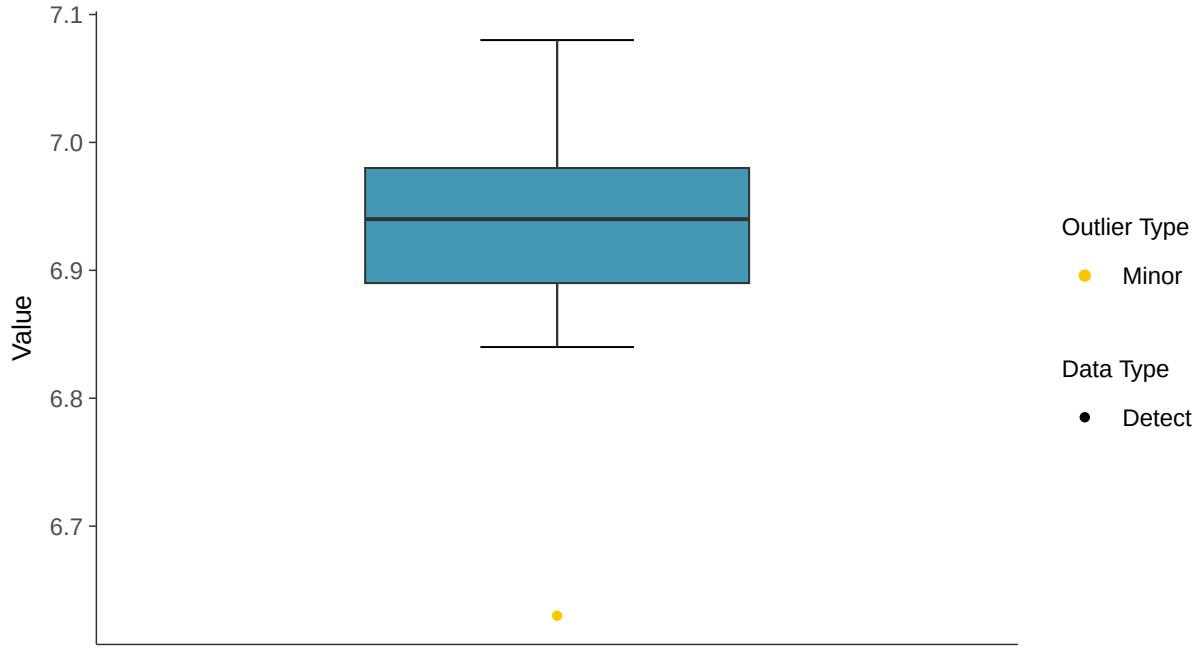
ID: 38_1_3_120





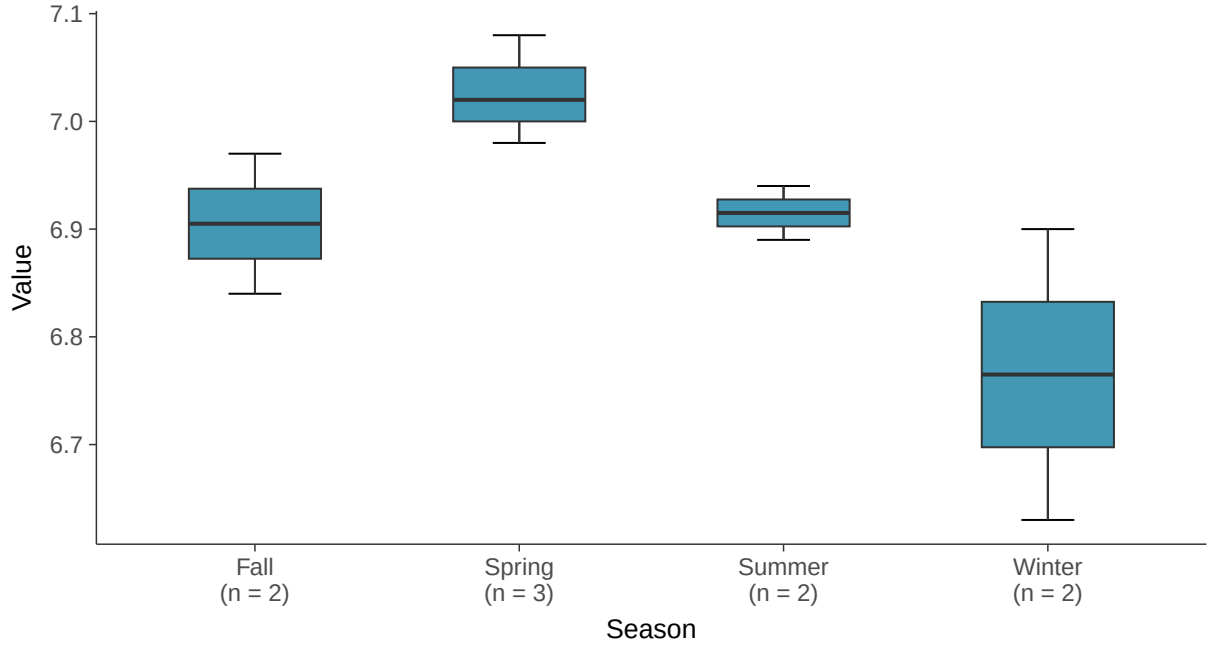
Boxplot

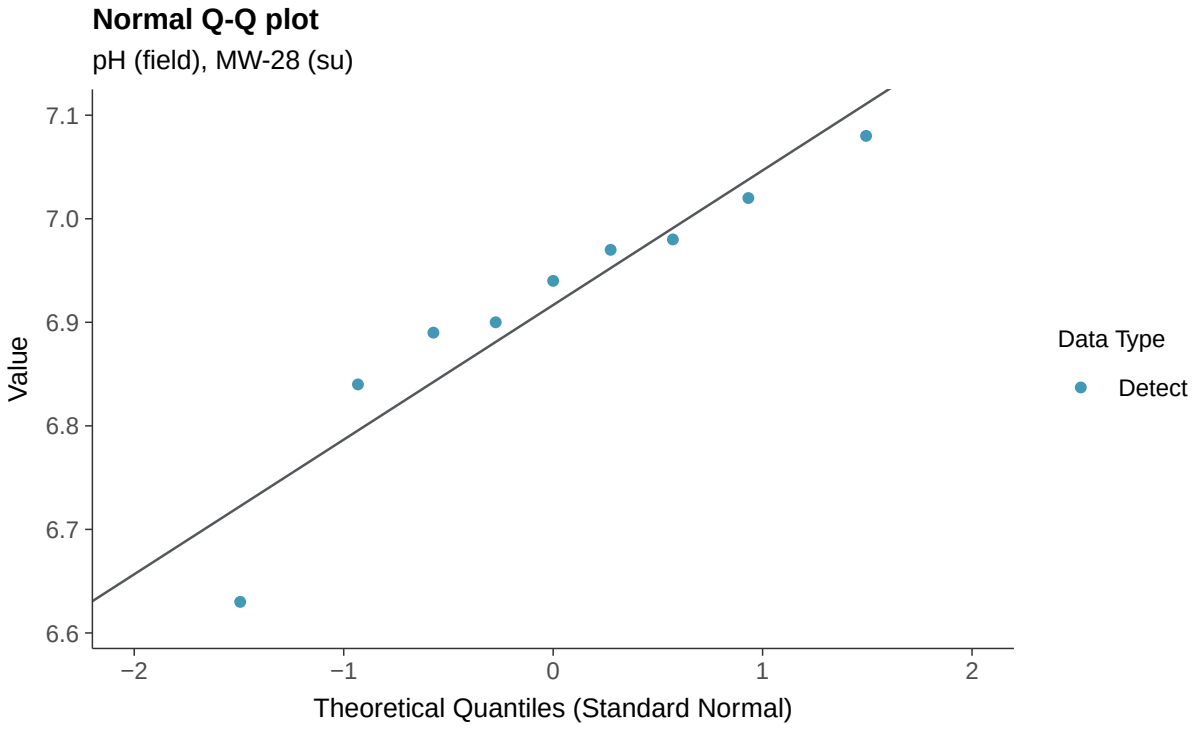
pH (field), MW-28 (su)

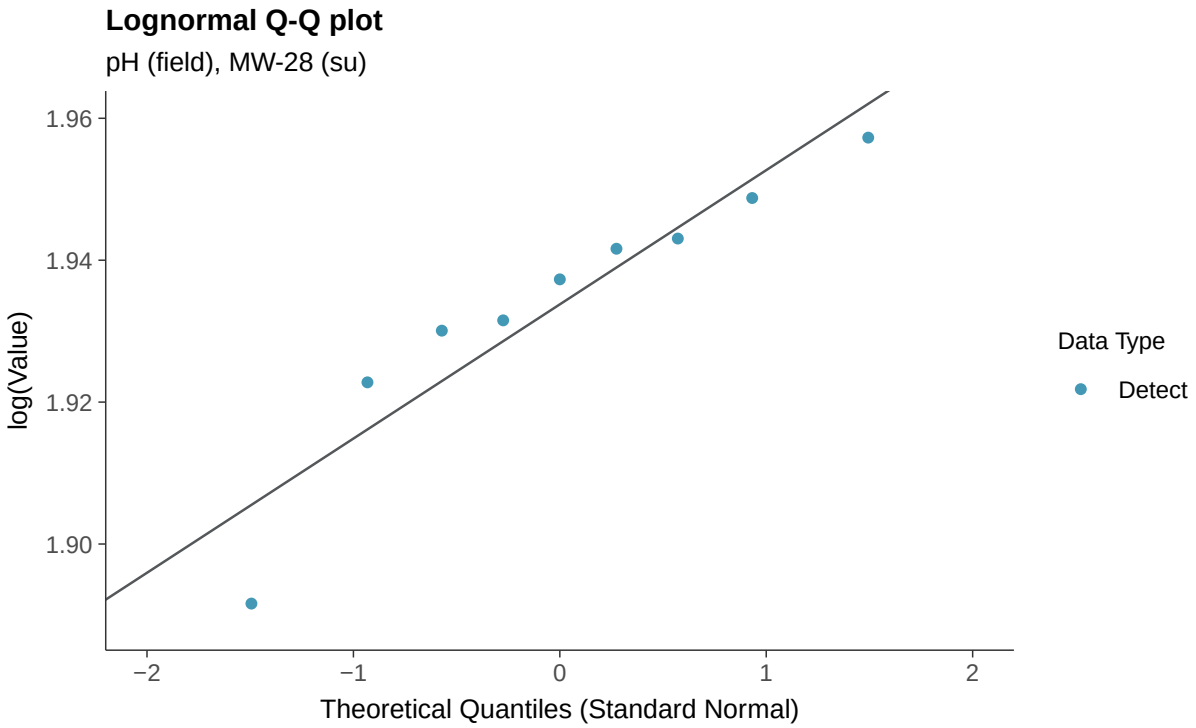


Boxplot by Season

pH (field), MW-28 (su)

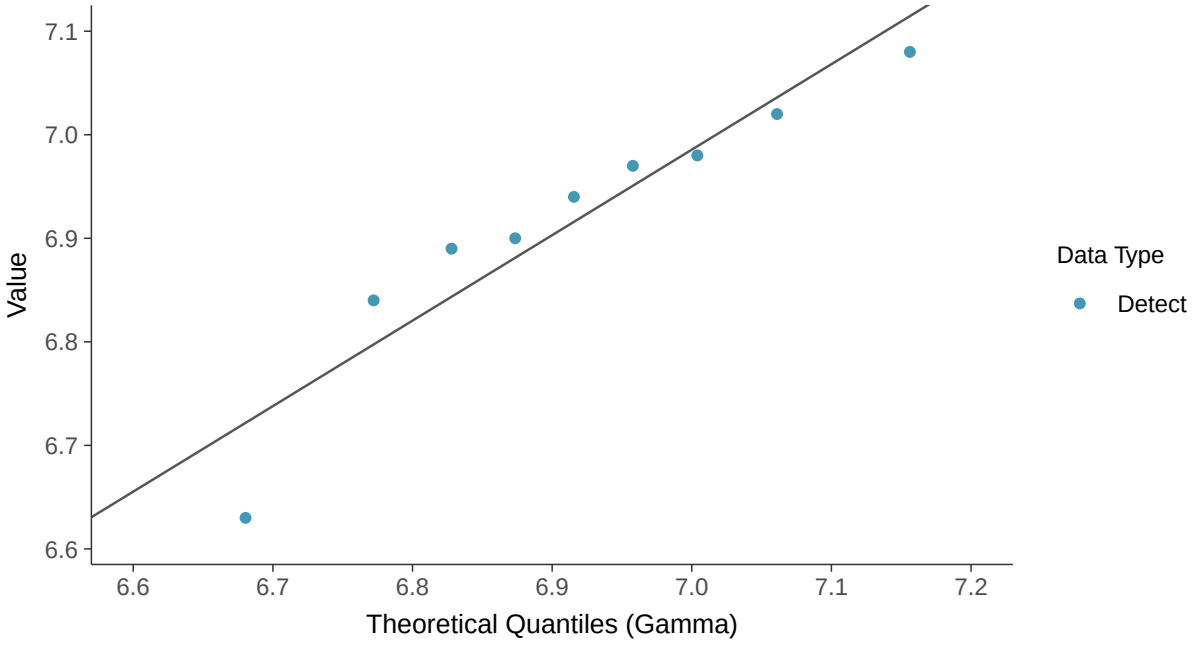



Normal Q-Q plot
pH (field), MW-28 (su)
Value
7.1
7.0
6.9
6.8
6.7
6.6
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
pH (field), MW-28 (su)
log(Value)
1.96
1.94
1.92
1.90
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

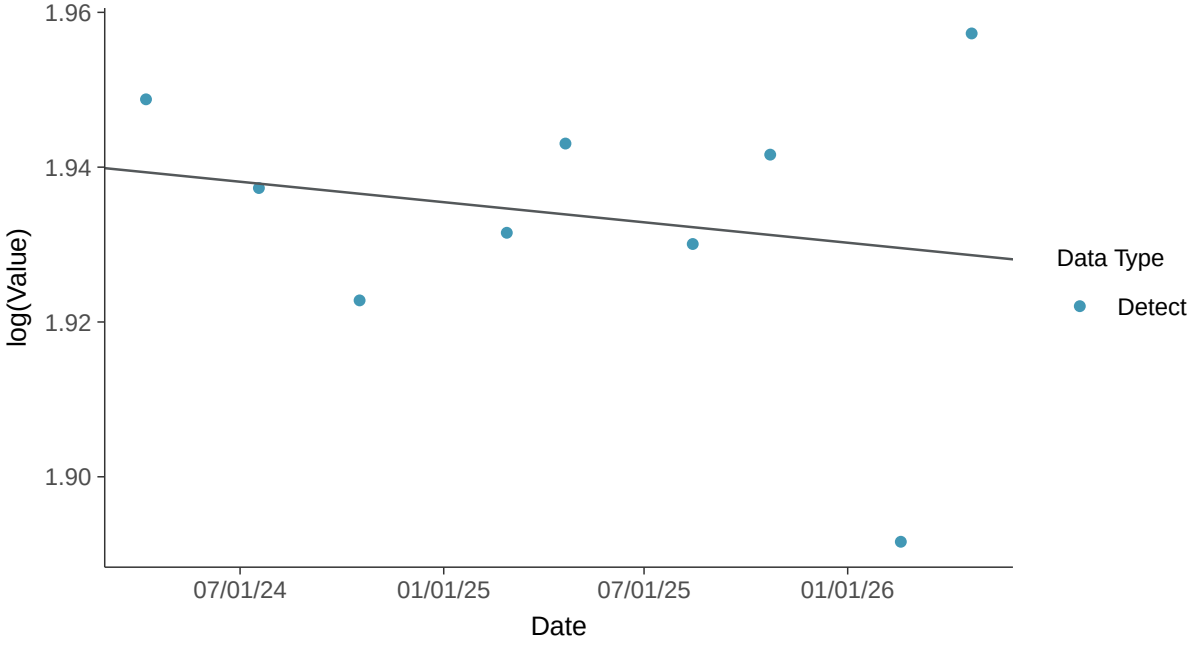
Gamma Q-Q plot

pH (field), MW-28 (su)



Trend Regression: Lognormal MLE

pH (field), MW-28 (su)

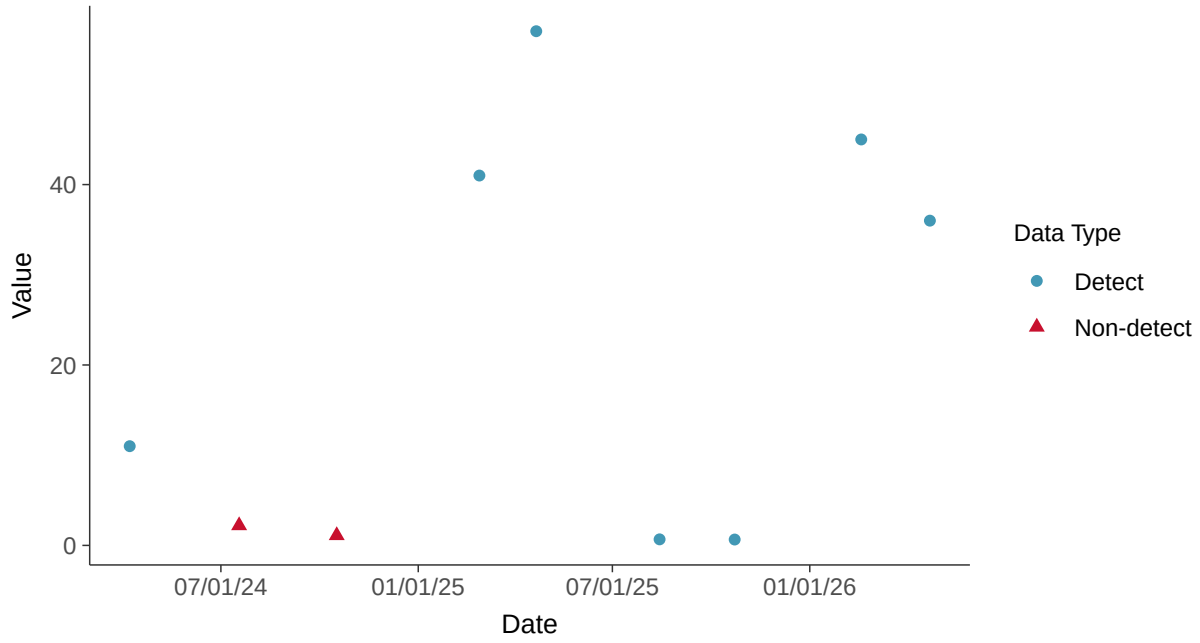


Appendix III: Sulfate (as SO4), MW-28

ID: 38_1_3_124

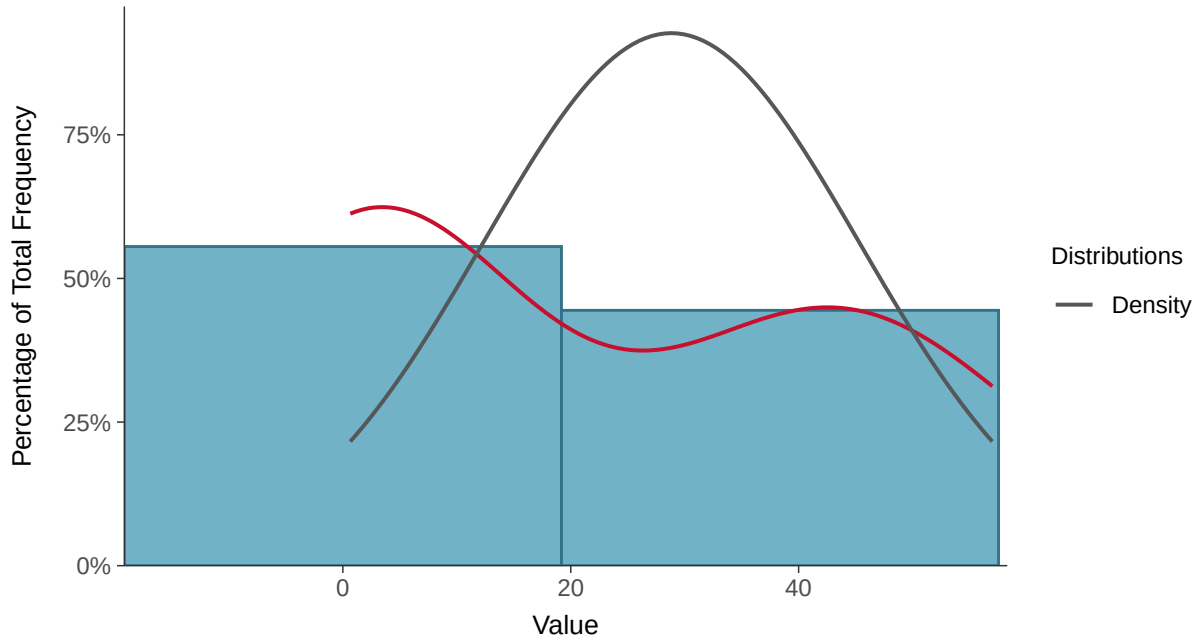
Scatter Plot

Sulfate (as SO4), MW-28 (mg/L)



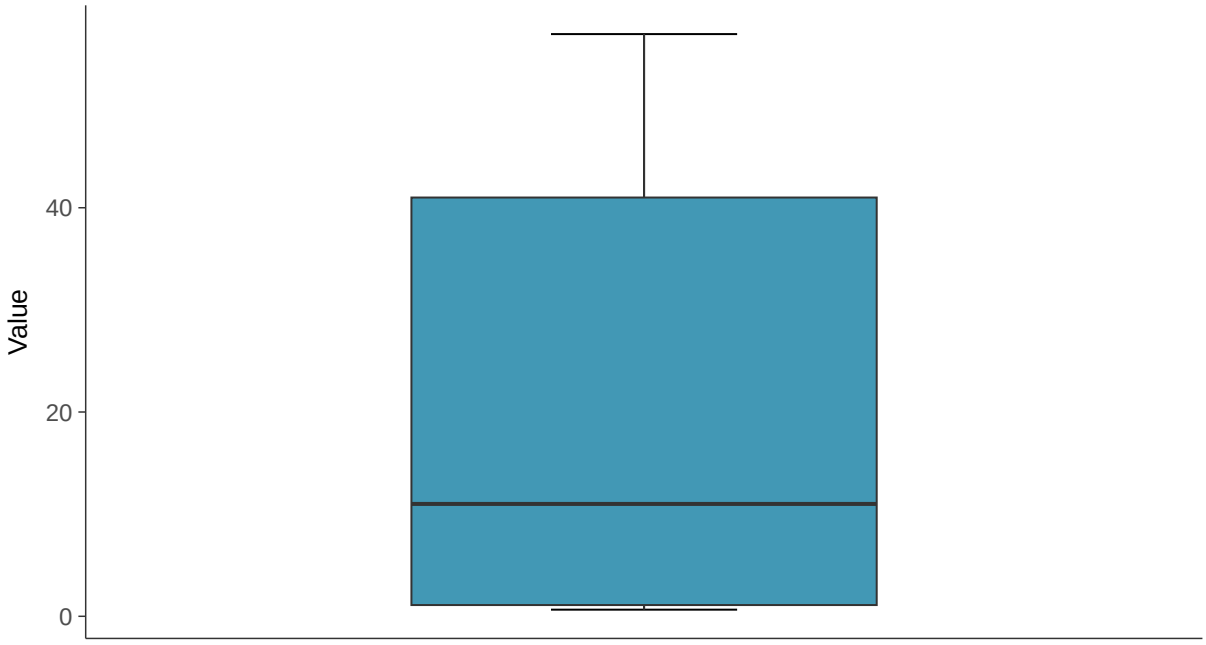
Histogram

Sulfate (as SO4), MW-28 (mg/L)



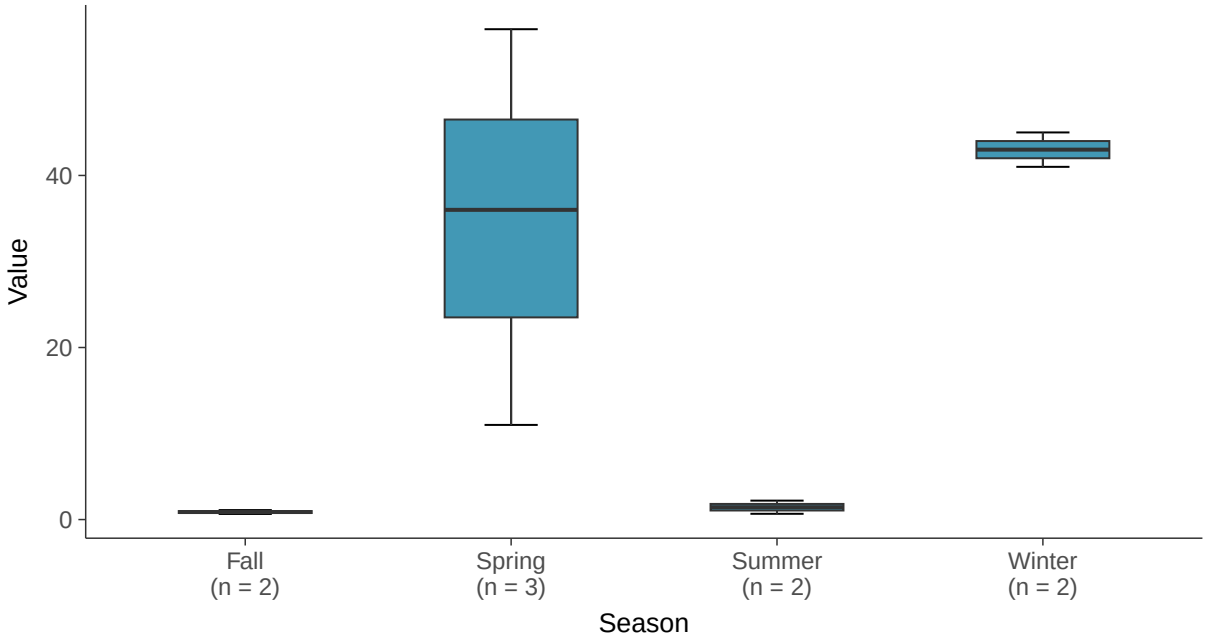
Boxplot

Sulfate (as SO4), MW-28 (mg/L)



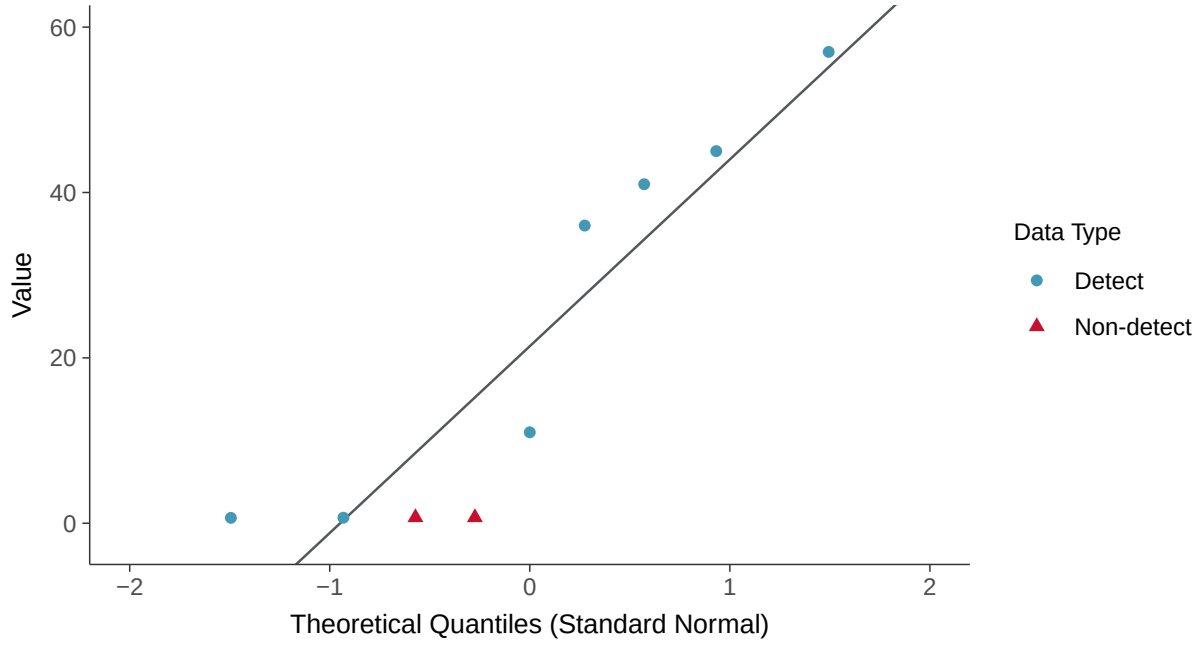
Boxplot by Season

Sulfate (as SO4), MW-28 (mg/L)



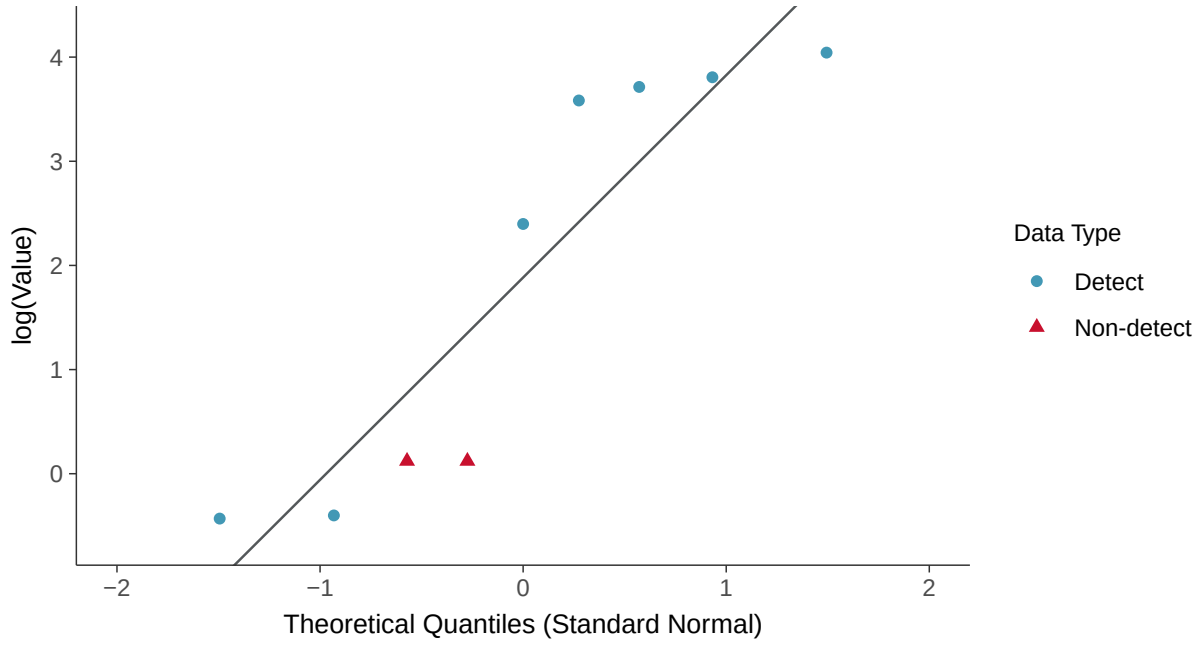
Normal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-28 (mg/L)



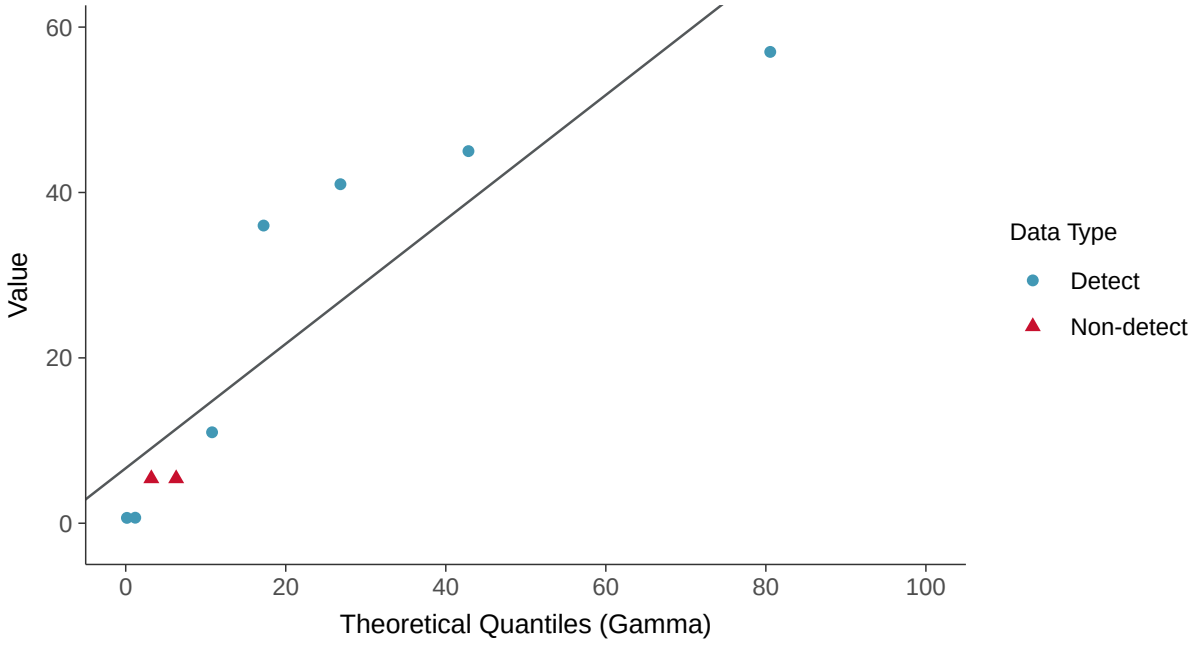
Lognormal Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-28 (mg/L)



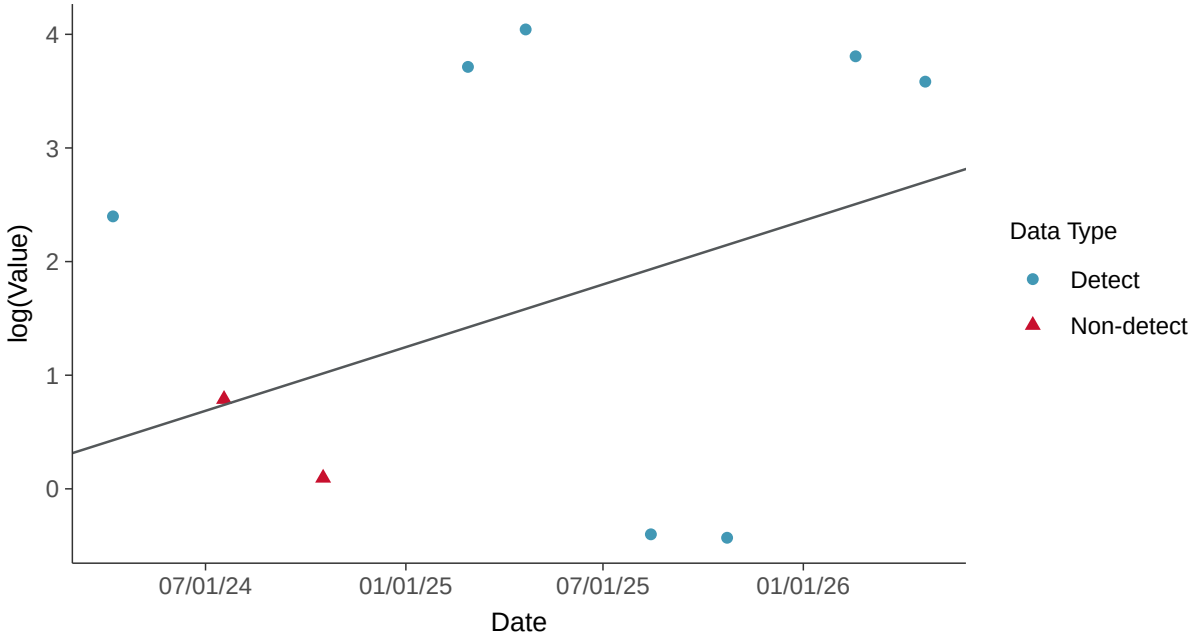
Gamma Q-Q plot using ROS Imputed Estimates

Sulfate (as SO4), MW-28 (mg/L)



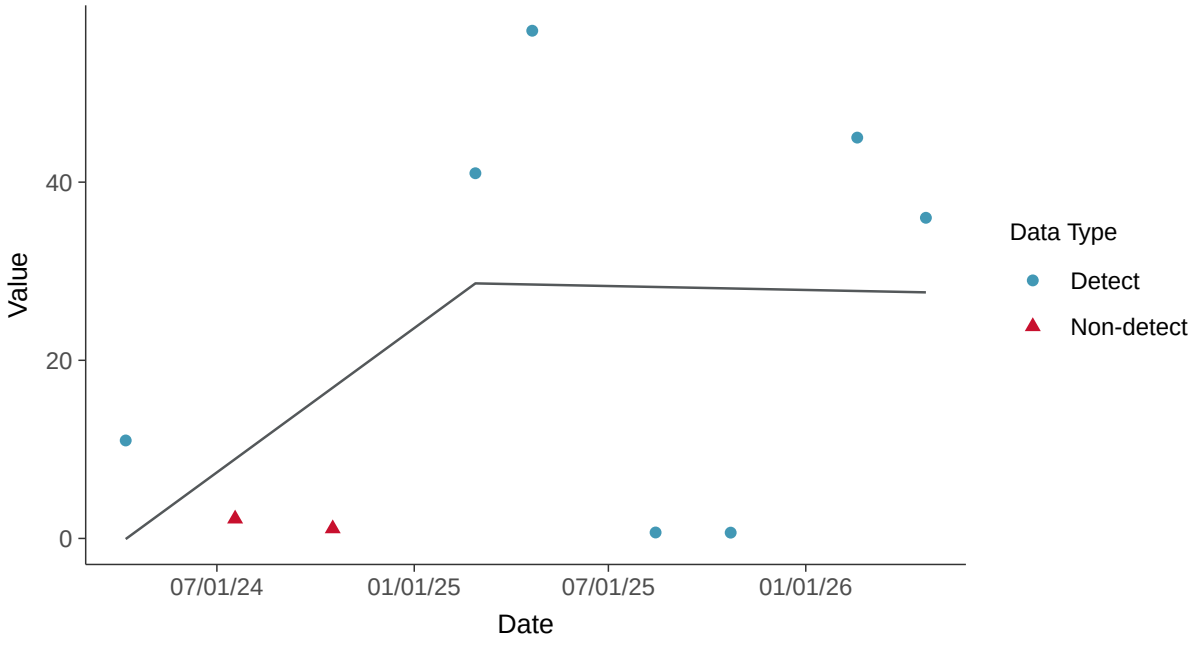
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-28 (mg/L)



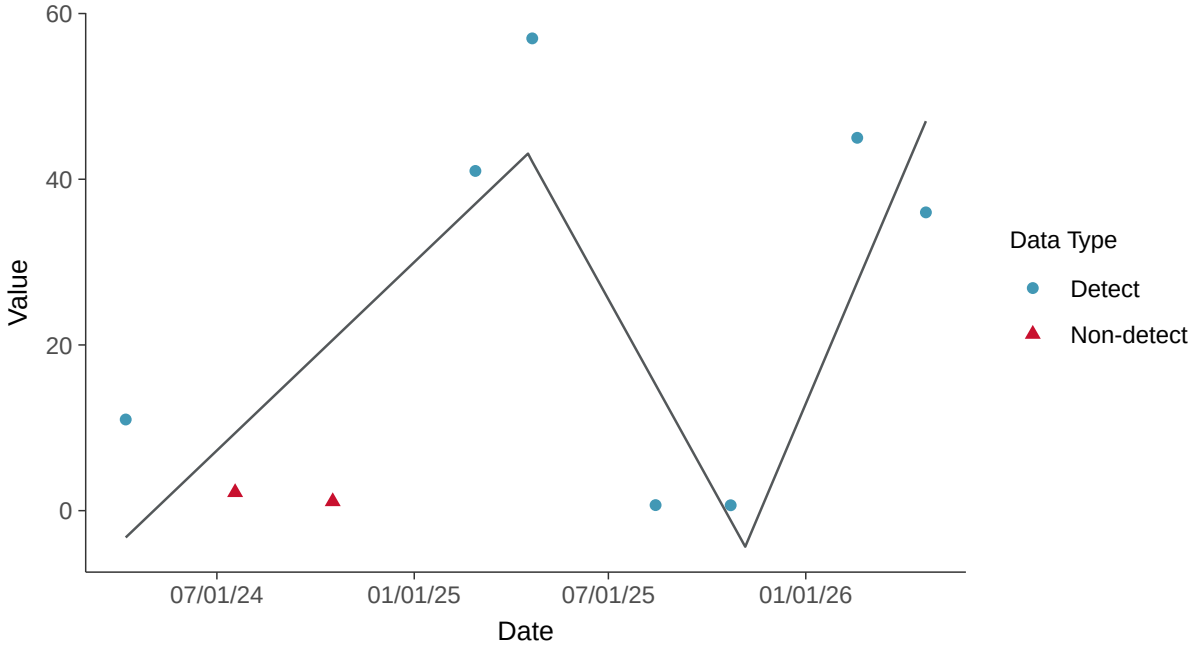
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-28 (mg/L)

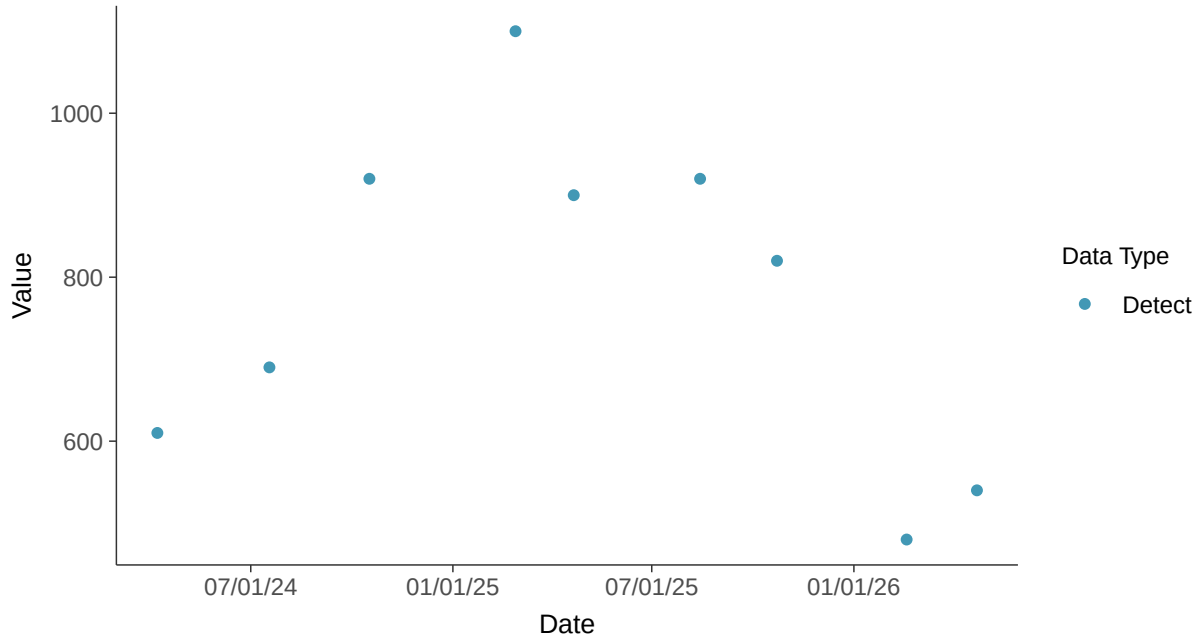


Appendix III: Total Dissolved Solids, MW-28

ID: 38_1_3_126

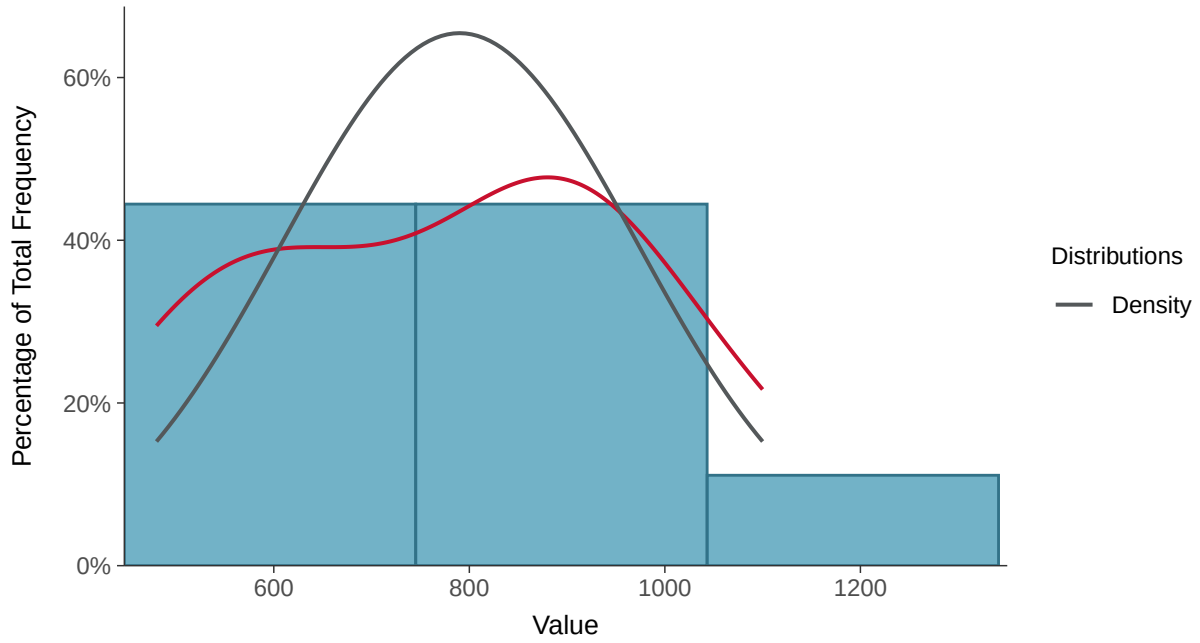
Scatter Plot

Total Dissolved Solids, MW-28 (mg/L)



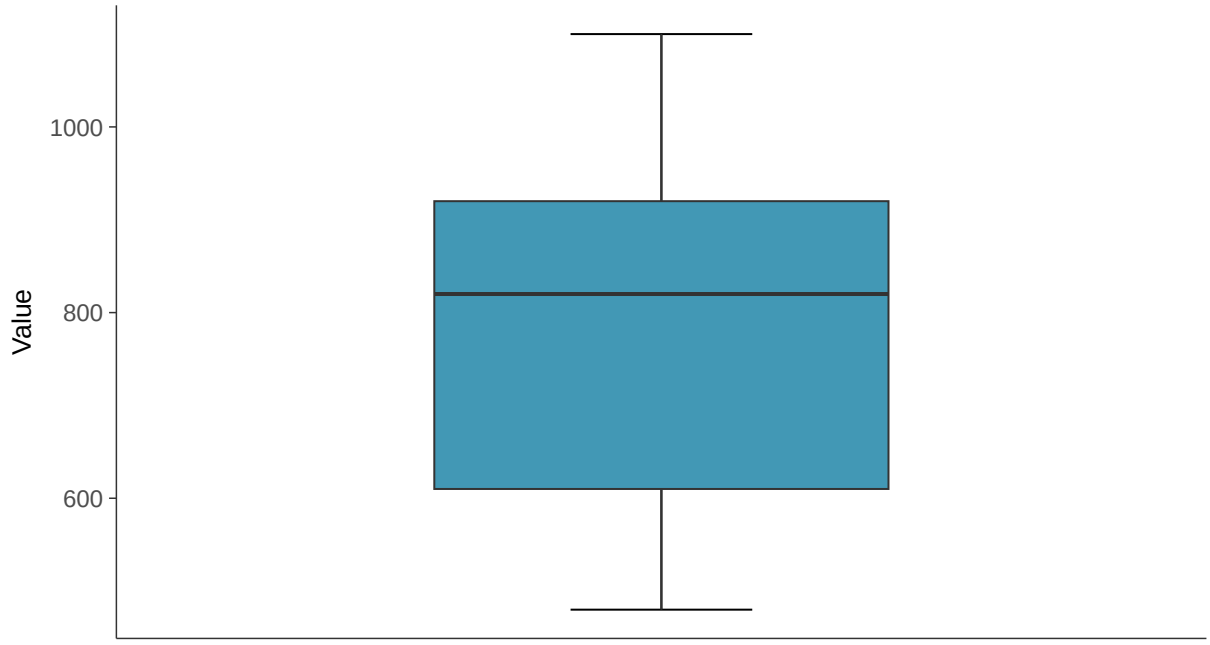
Histogram

Total Dissolved Solids, MW-28 (mg/L)



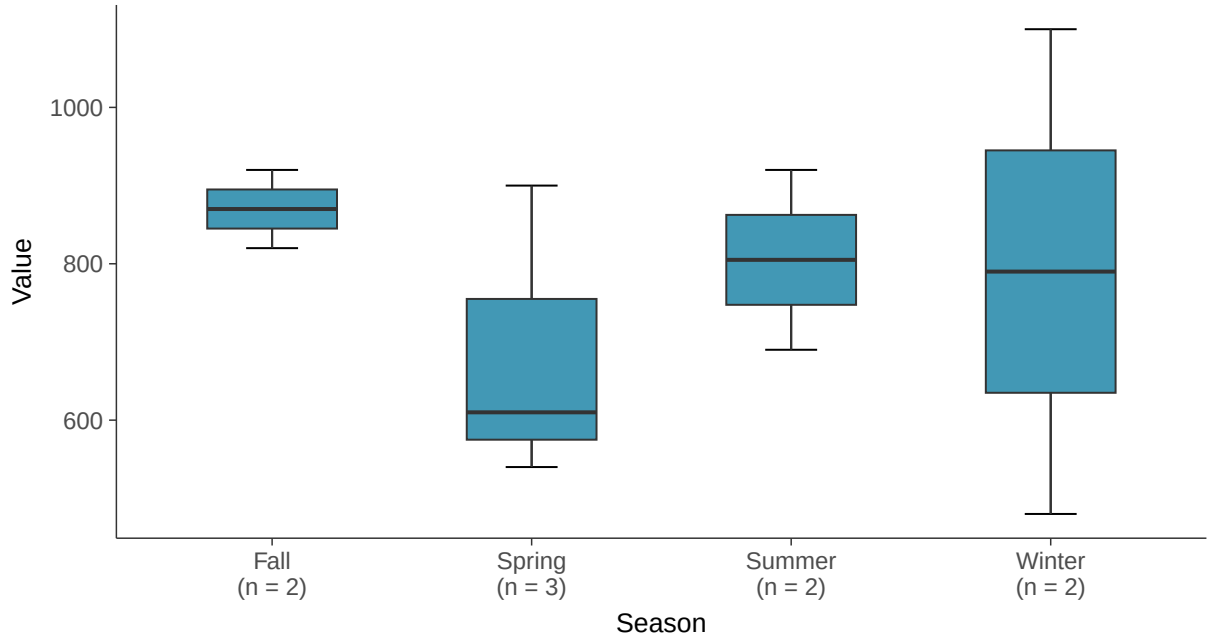
Boxplot

Total Dissolved Solids, MW-28 (mg/L)



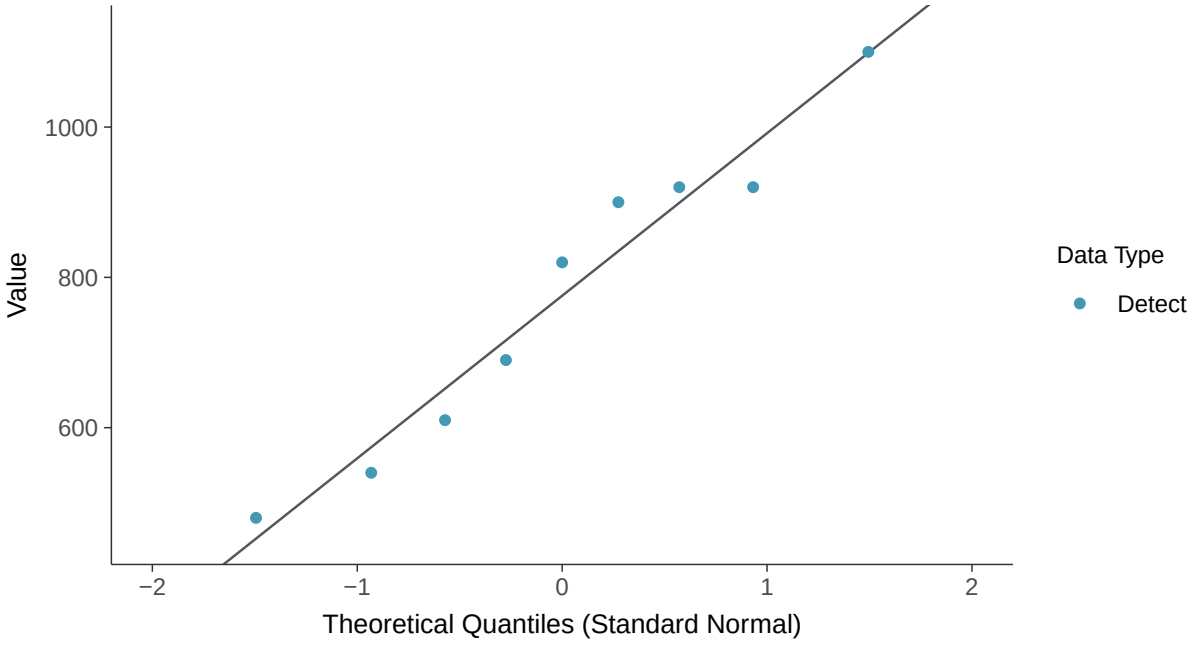
Boxplot by Season

Total Dissolved Solids, MW-28 (mg/L)



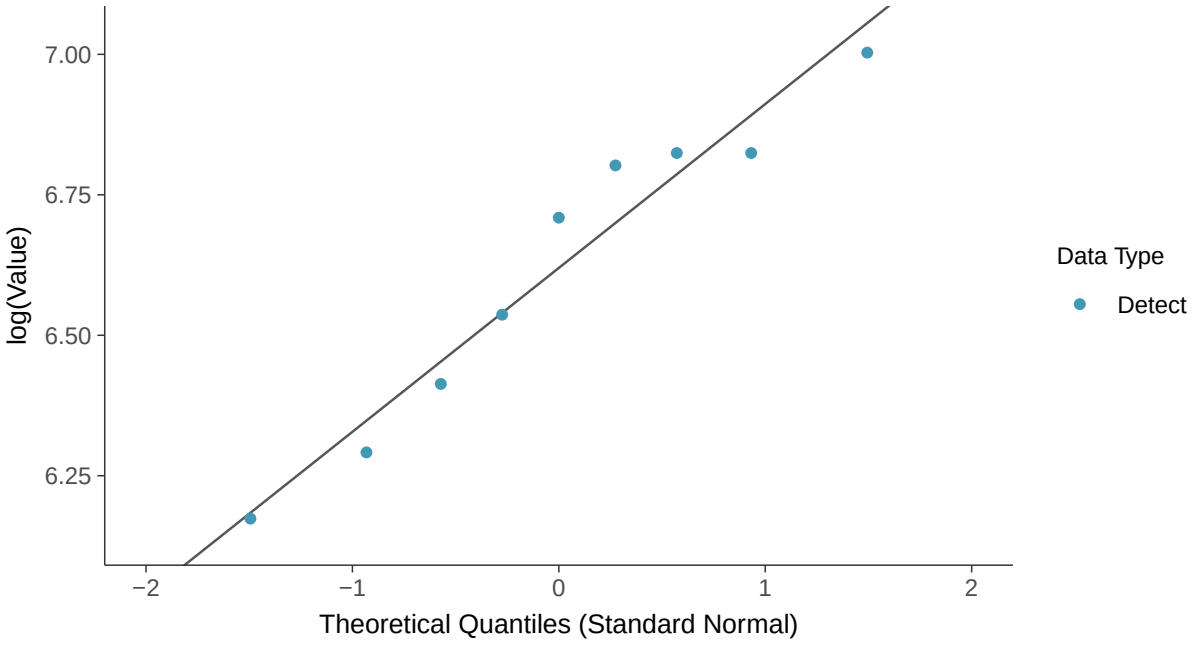
Normal Q-Q plot

Total Dissolved Solids, MW-28 (mg/L)



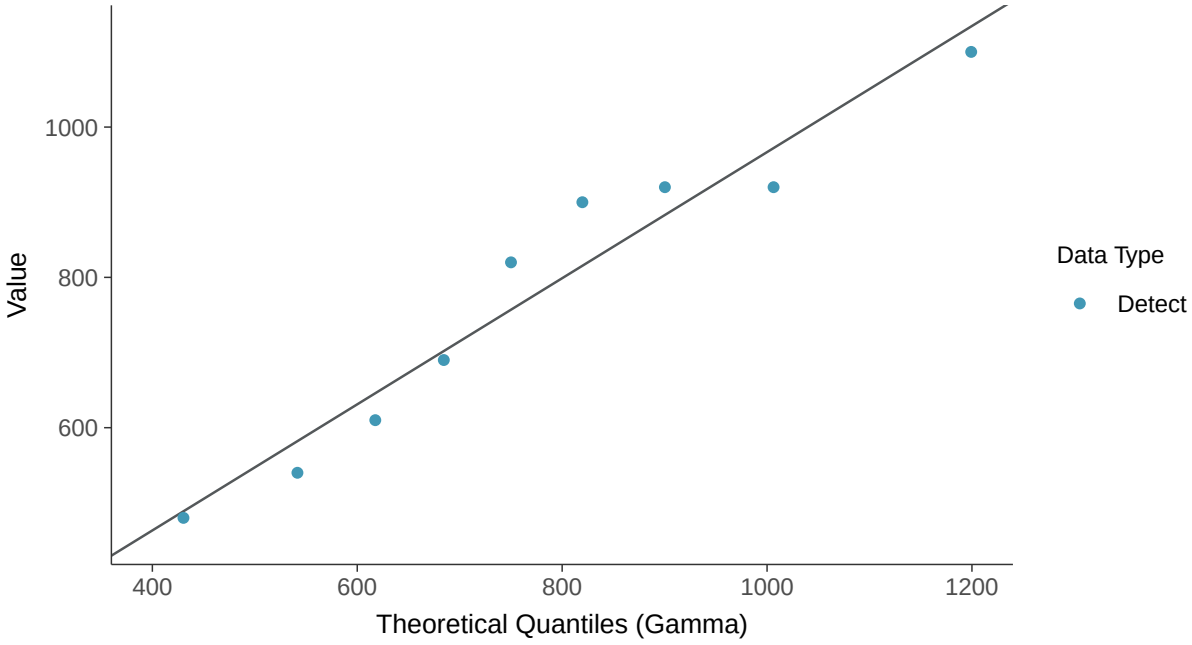
Lognormal Q-Q plot

Total Dissolved Solids, MW-28 (mg/L)



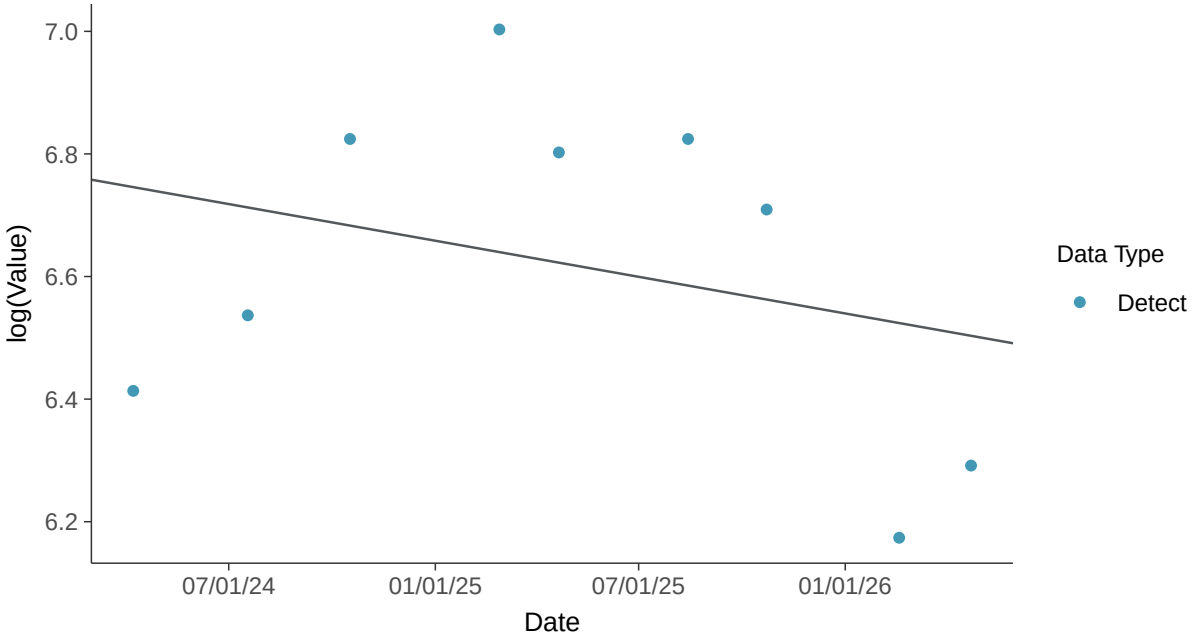
Gamma Q-Q plot

Total Dissolved Solids, MW-28 (mg/L)



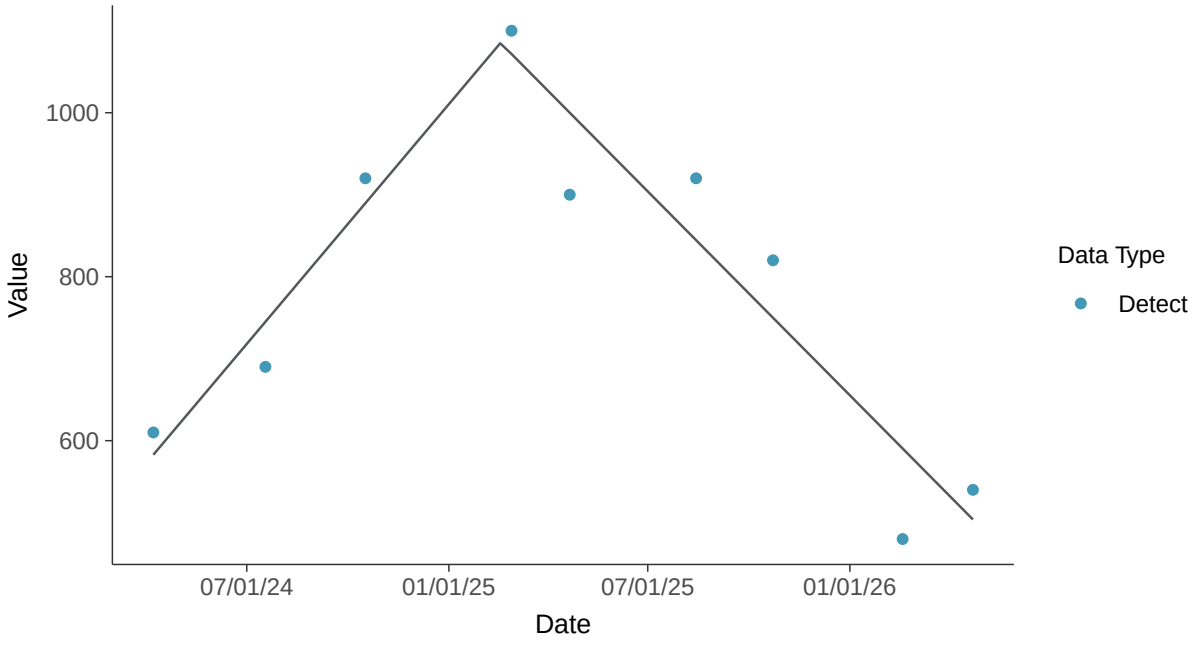
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-28 (mg/L)



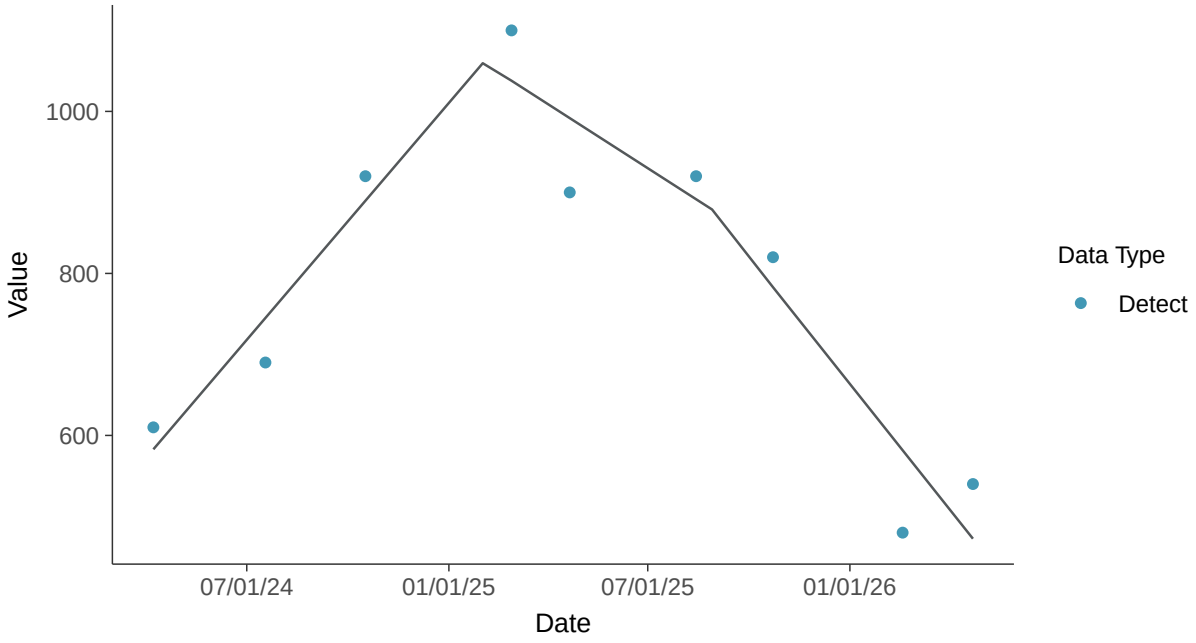
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-28 (mg/L)



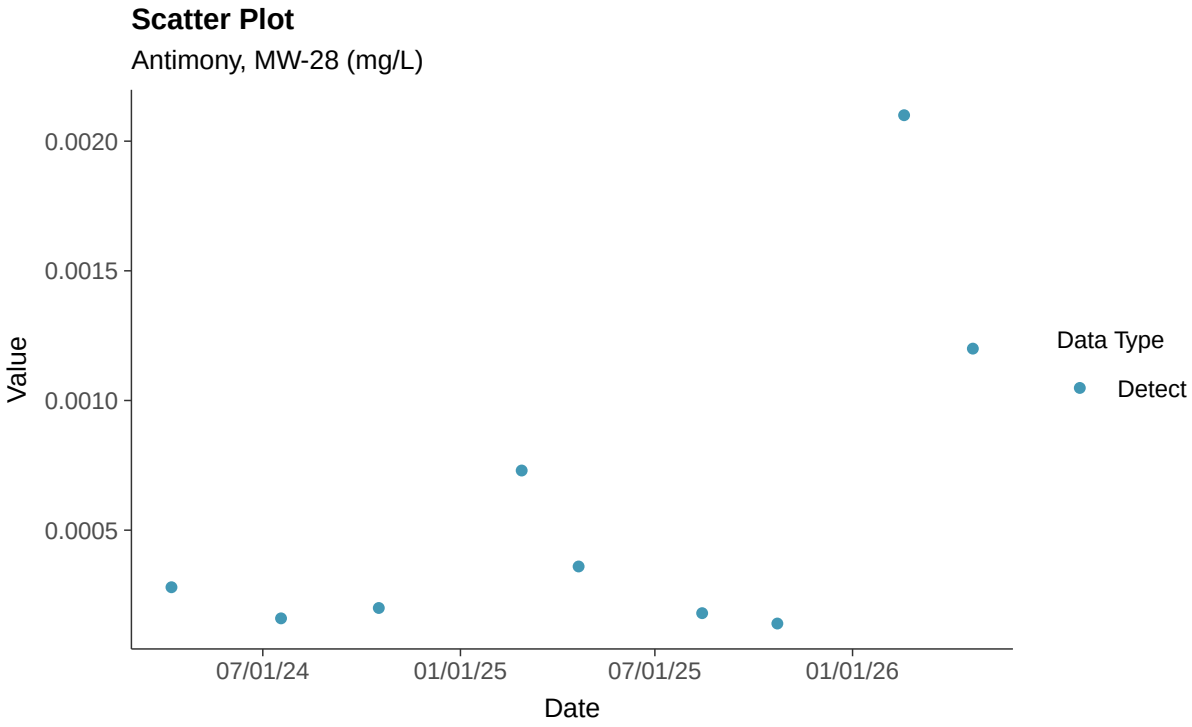
Trend Regression: Piecewise Linear-Linear-Linear

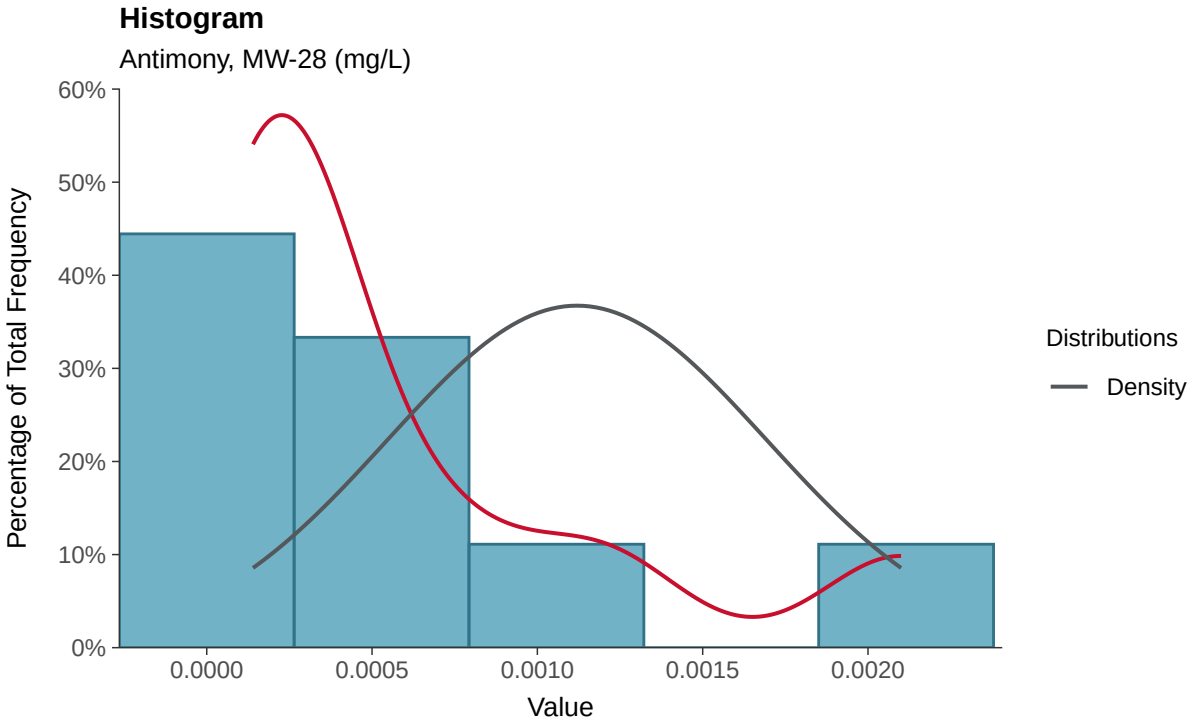
Total Dissolved Solids, MW-28 (mg/L)



Appendix IV: Antimony, MW-28

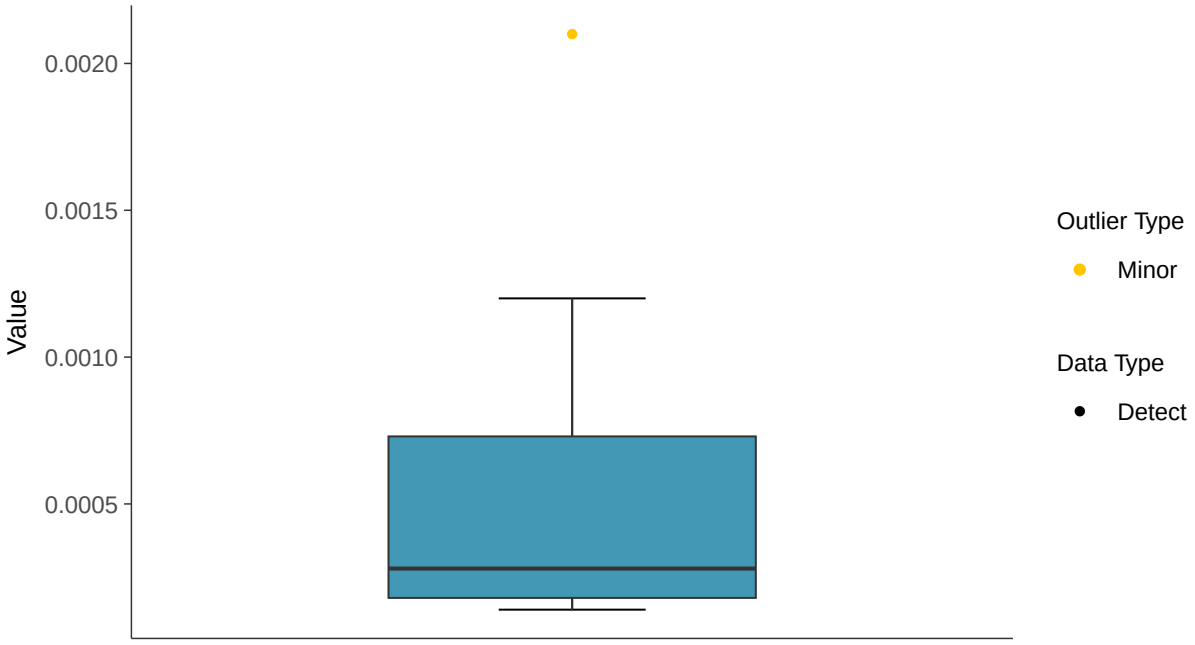
ID: 38_1_4_101





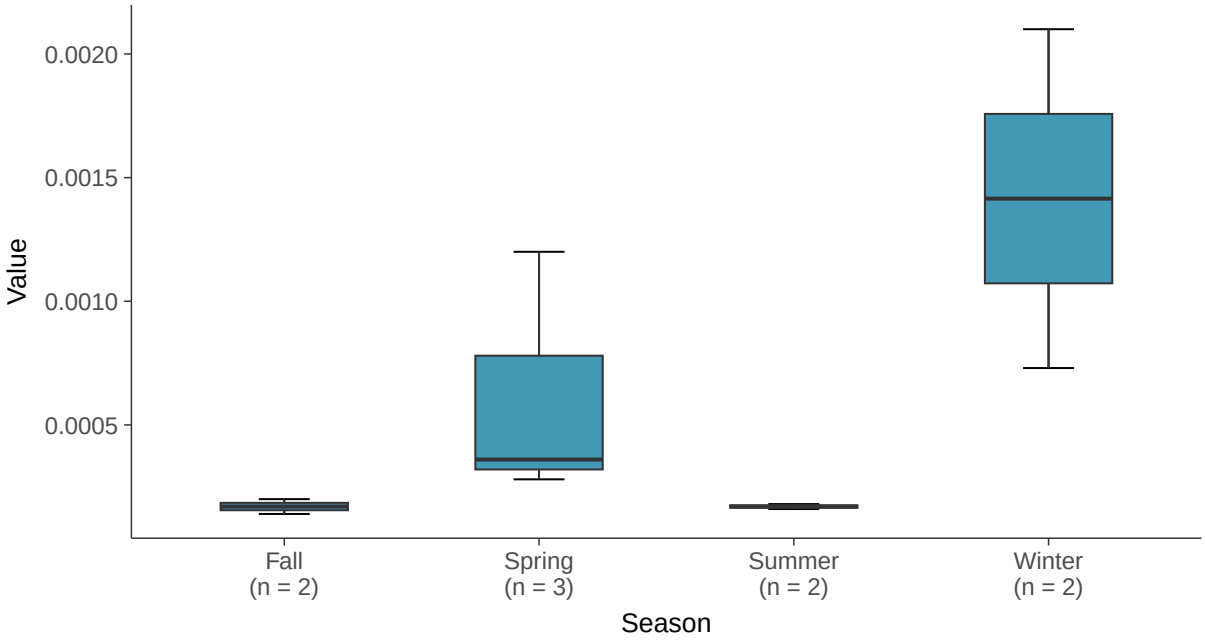
Boxplot

Antimony, MW-28 (mg/L)



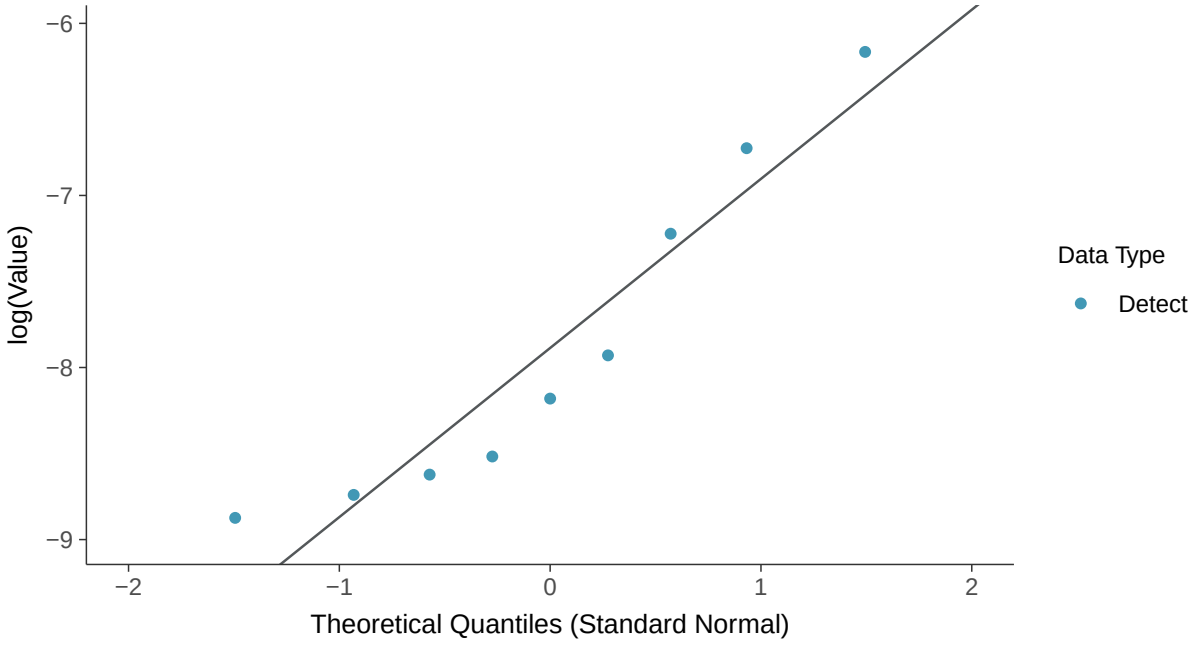
Boxplot by Season

Antimony, MW-28 (mg/L)



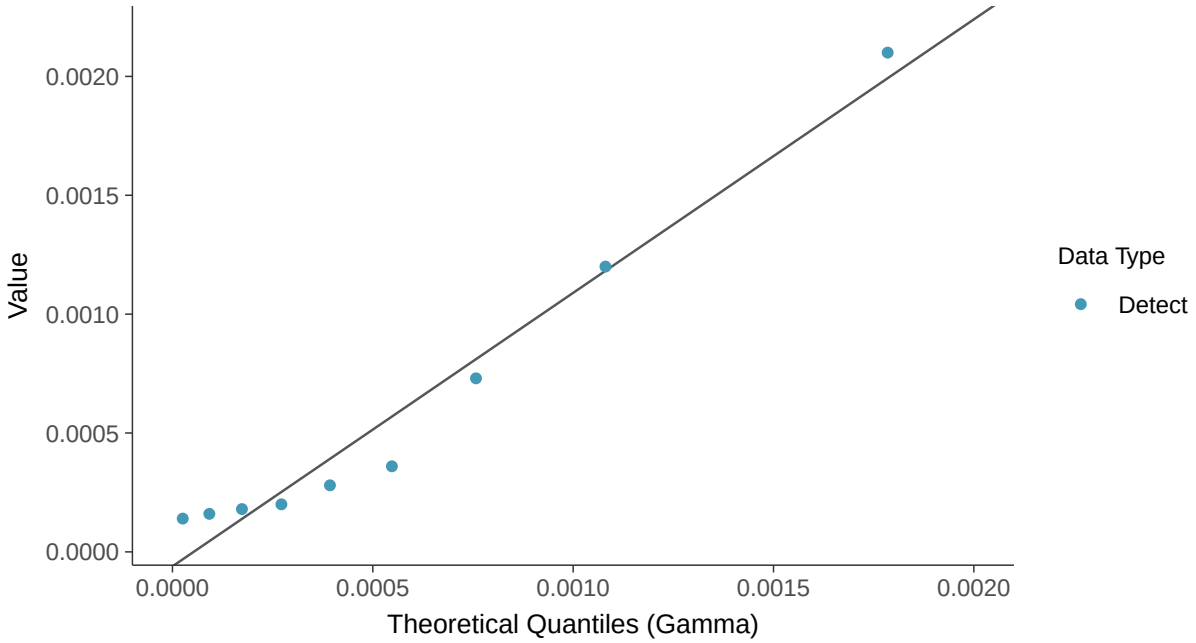
Lognormal Q-Q plot

Antimony, MW-28 (mg/L)



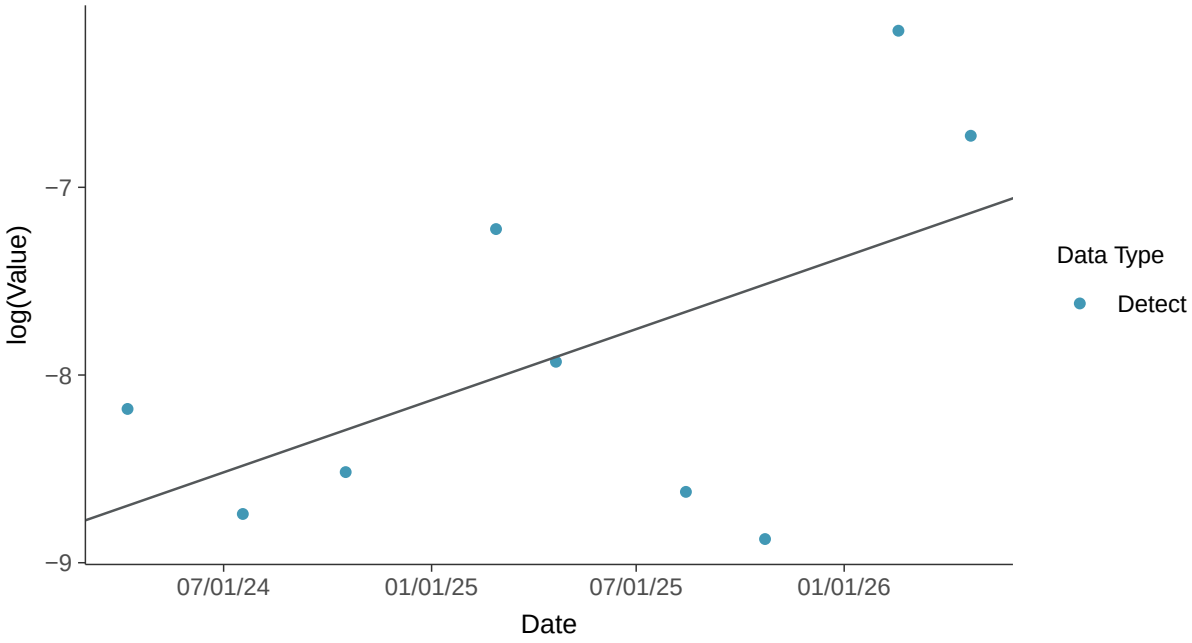
Gamma Q-Q plot

Antimony, MW-28 (mg/L)



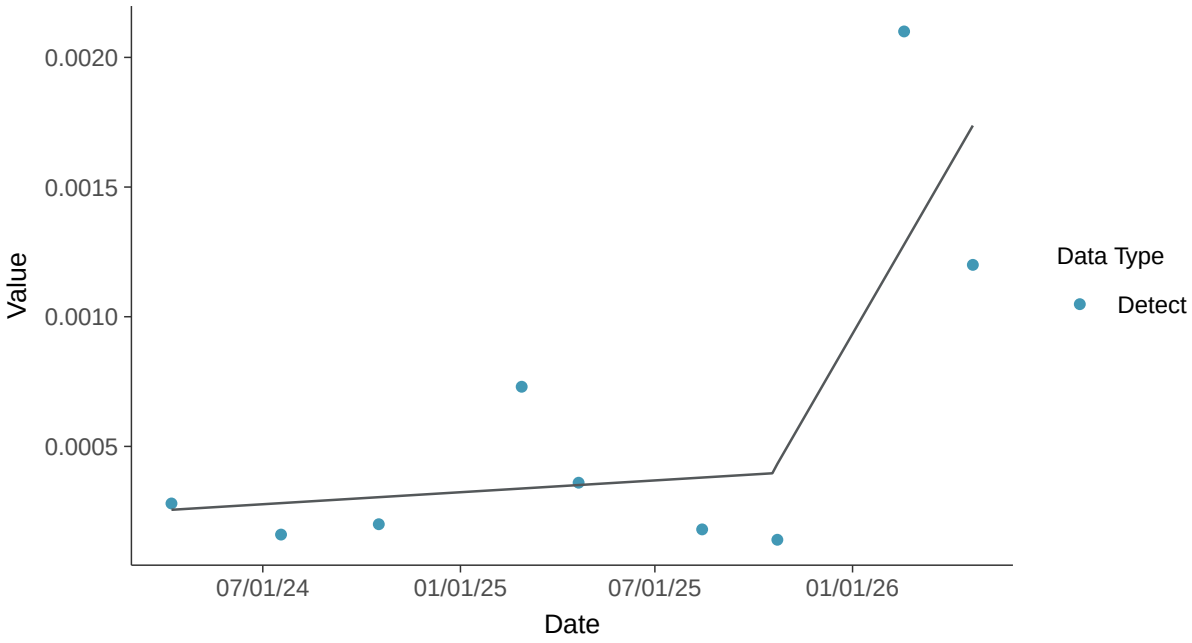
Trend Regression: Lognormal MLE

Antimony, MW-28 (mg/L)



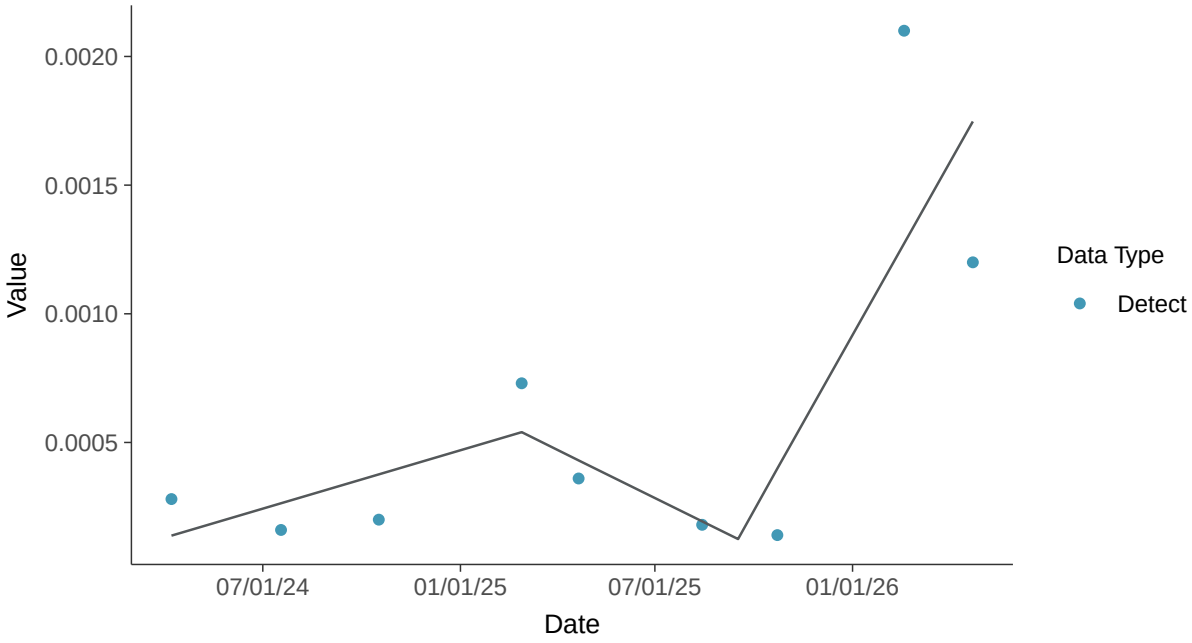
Trend Regression: Piecewise Linear-Linear

Antimony, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-28 (mg/L)

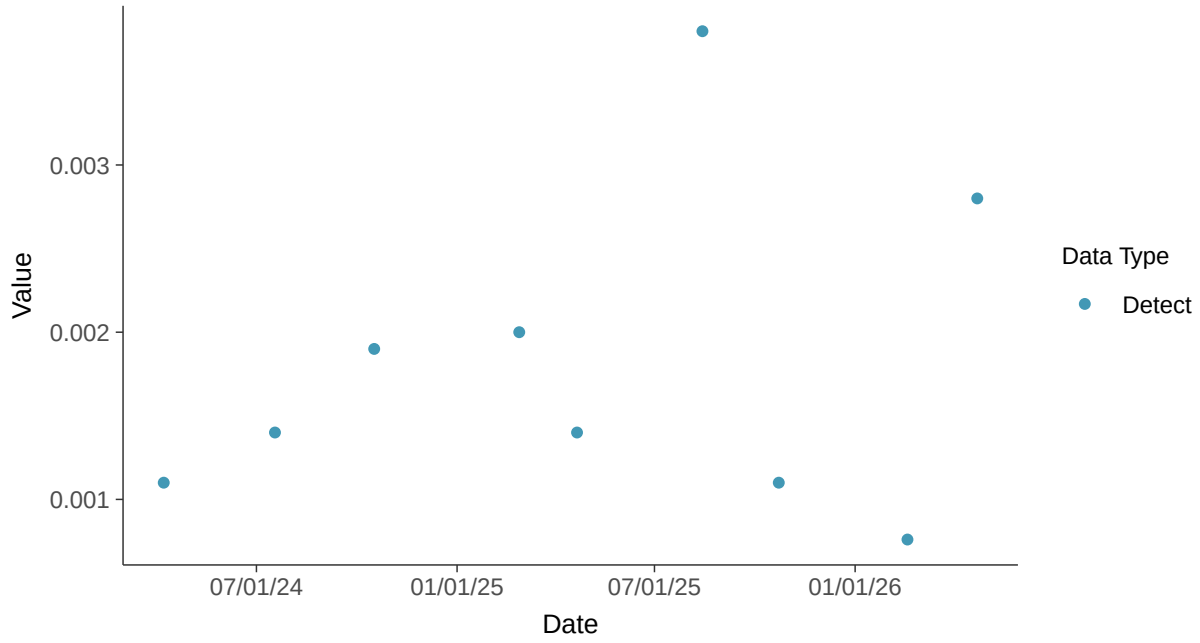


Appendix IV: Arsenic, MW-28

ID: 38_1_4_102

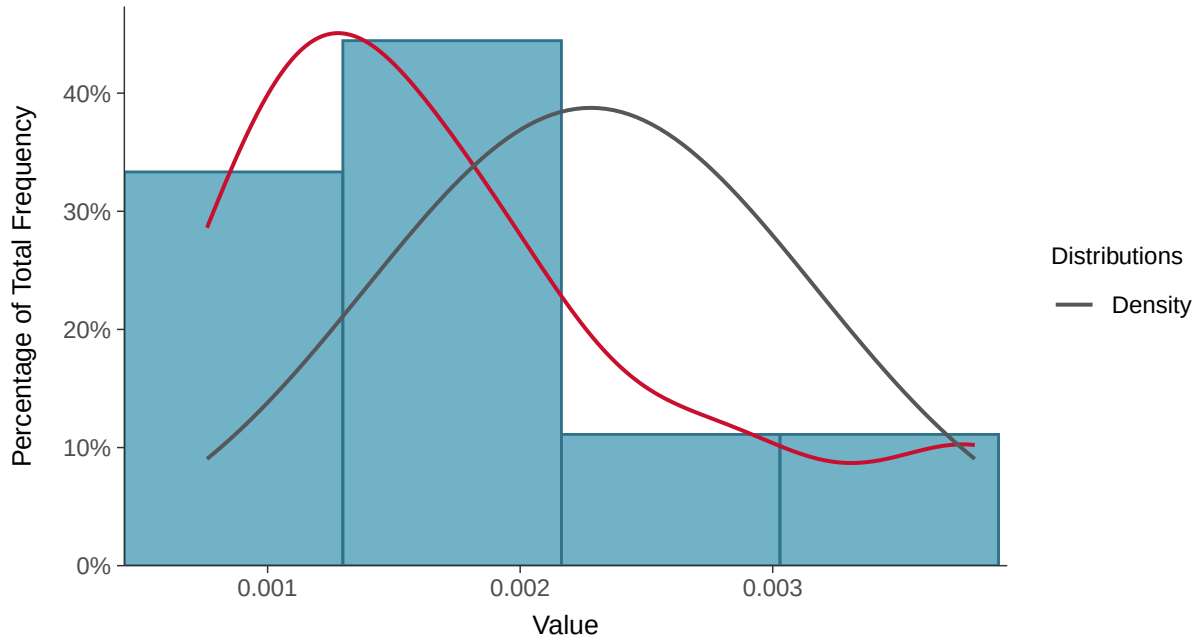
Scatter Plot

Arsenic, MW-28 (mg/L)



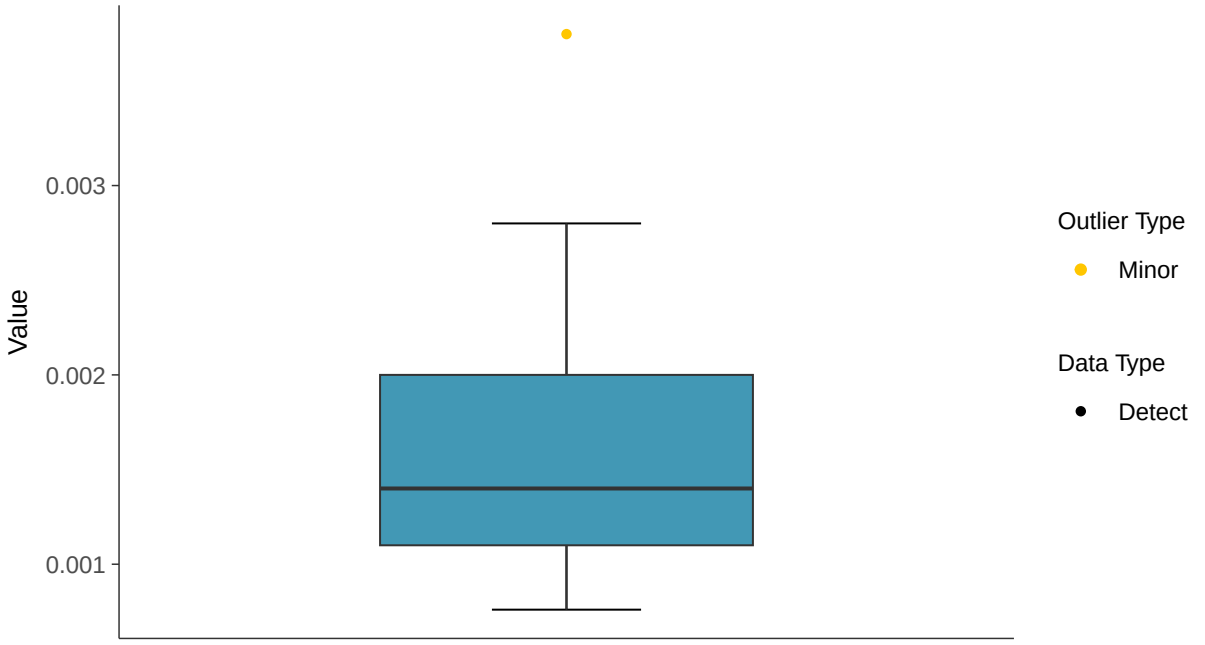
Histogram

Arsenic, MW-28 (mg/L)



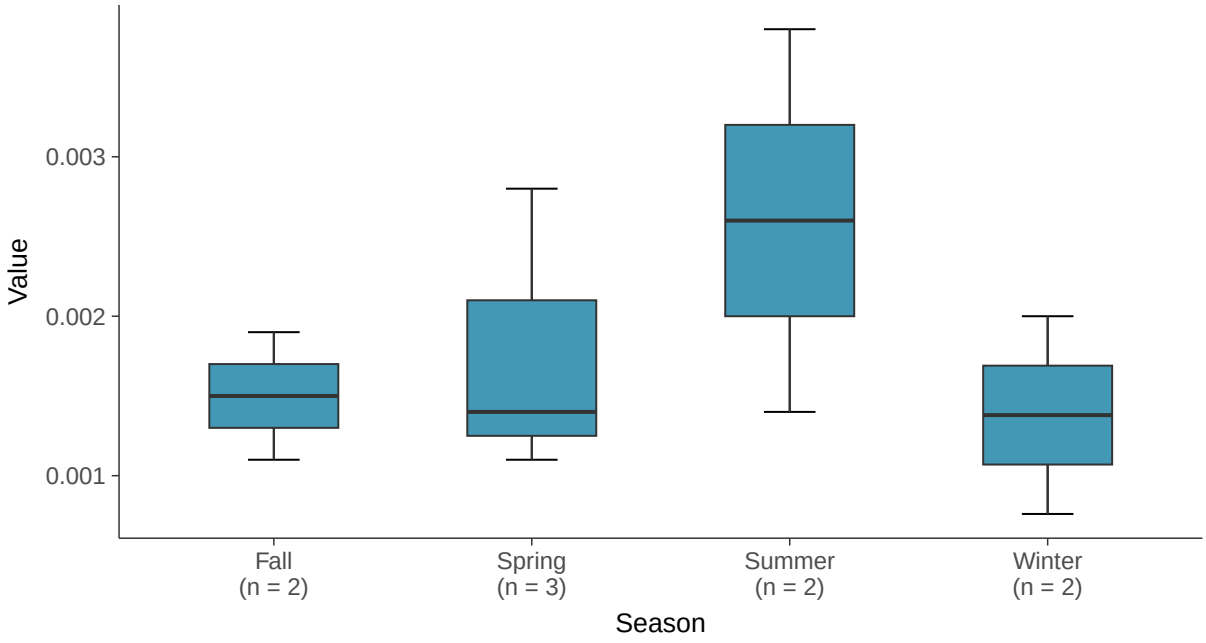
Boxplot

Arsenic, MW-28 (mg/L)



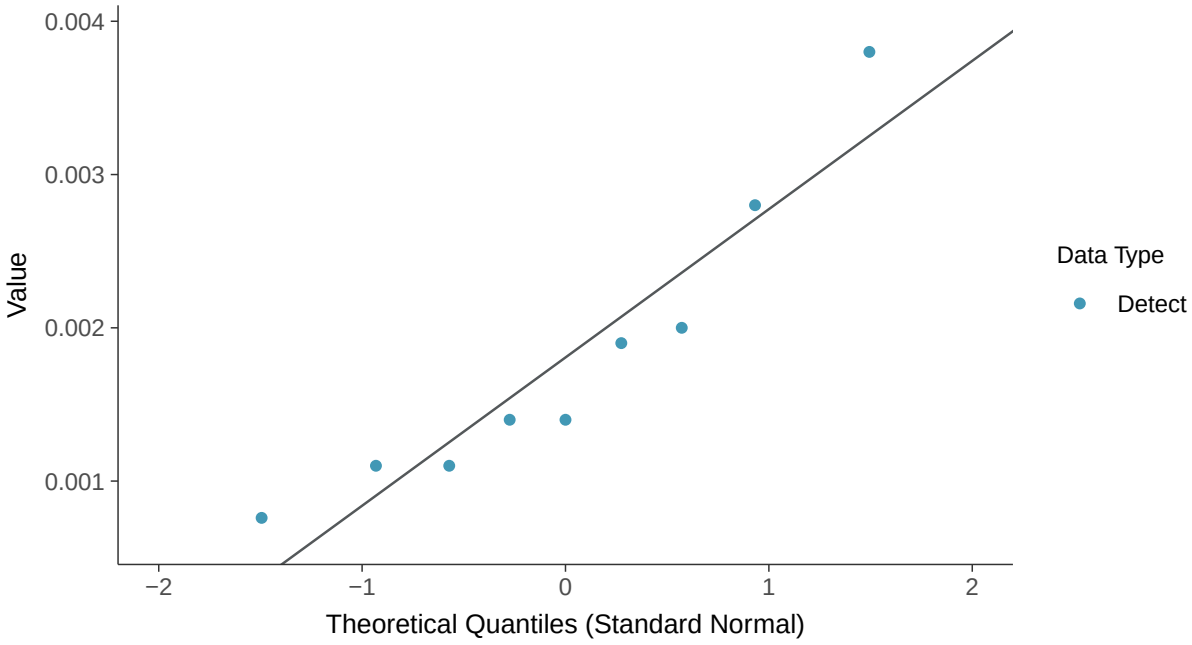
Boxplot by Season

Arsenic, MW-28 (mg/L)



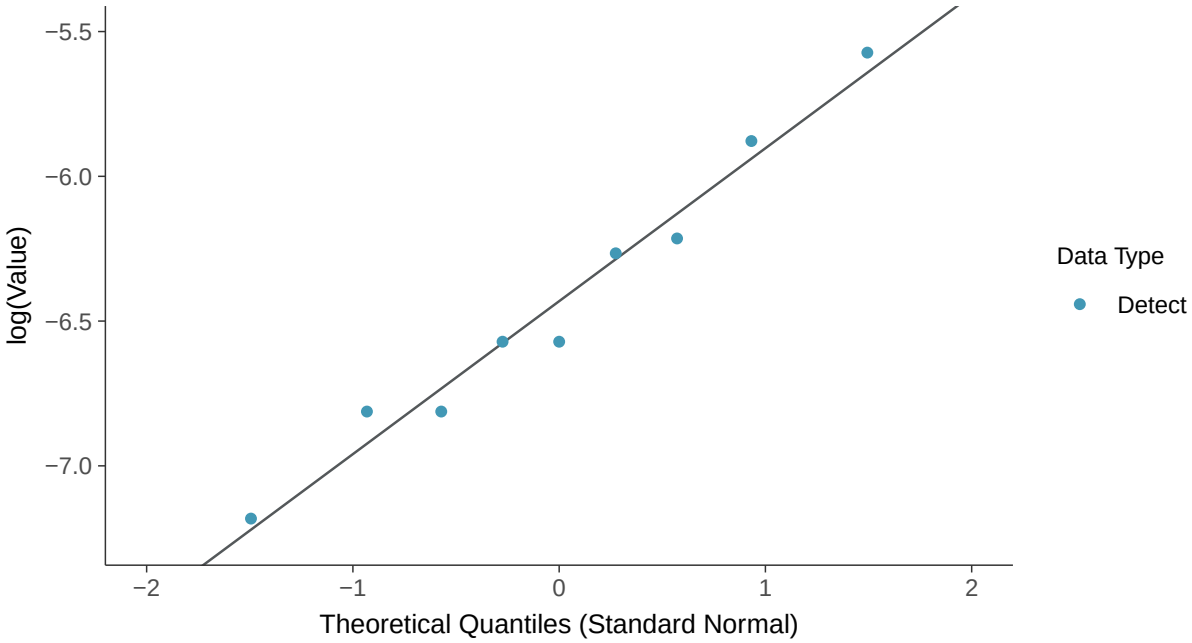
Normal Q-Q plot

Arsenic, MW-28 (mg/L)



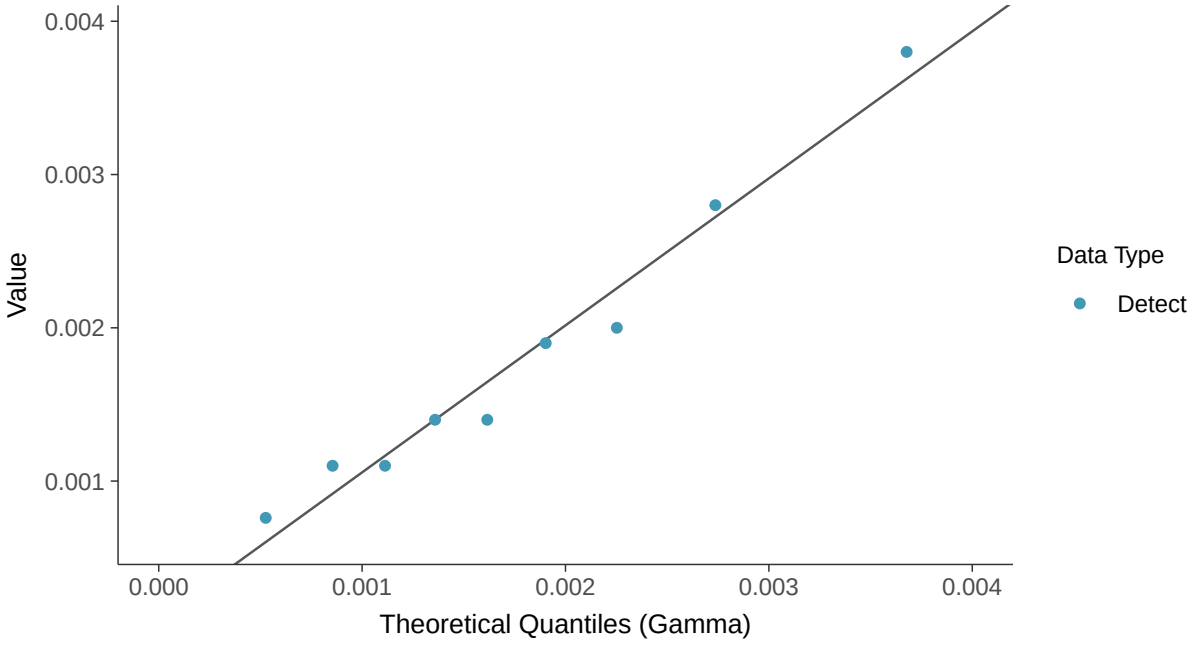
Lognormal Q-Q plot

Arsenic, MW-28 (mg/L)



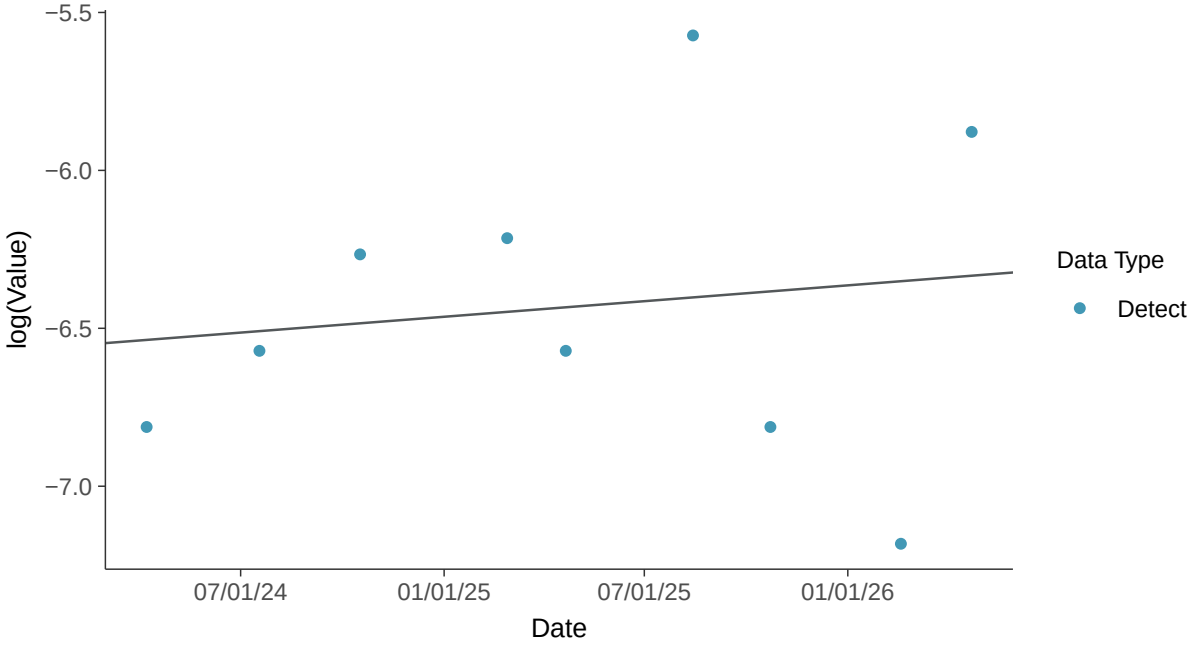
Gamma Q-Q plot

Arsenic, MW-28 (mg/L)



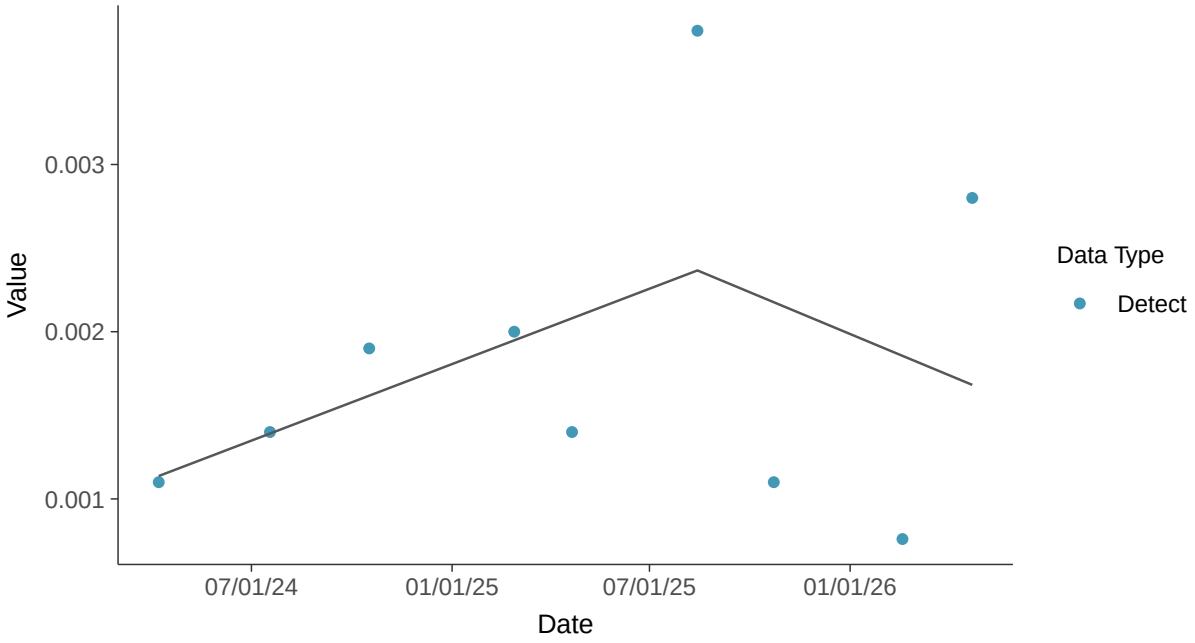
Trend Regression: Lognormal MLE

Arsenic, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Arsenic, MW-28 (mg/L)

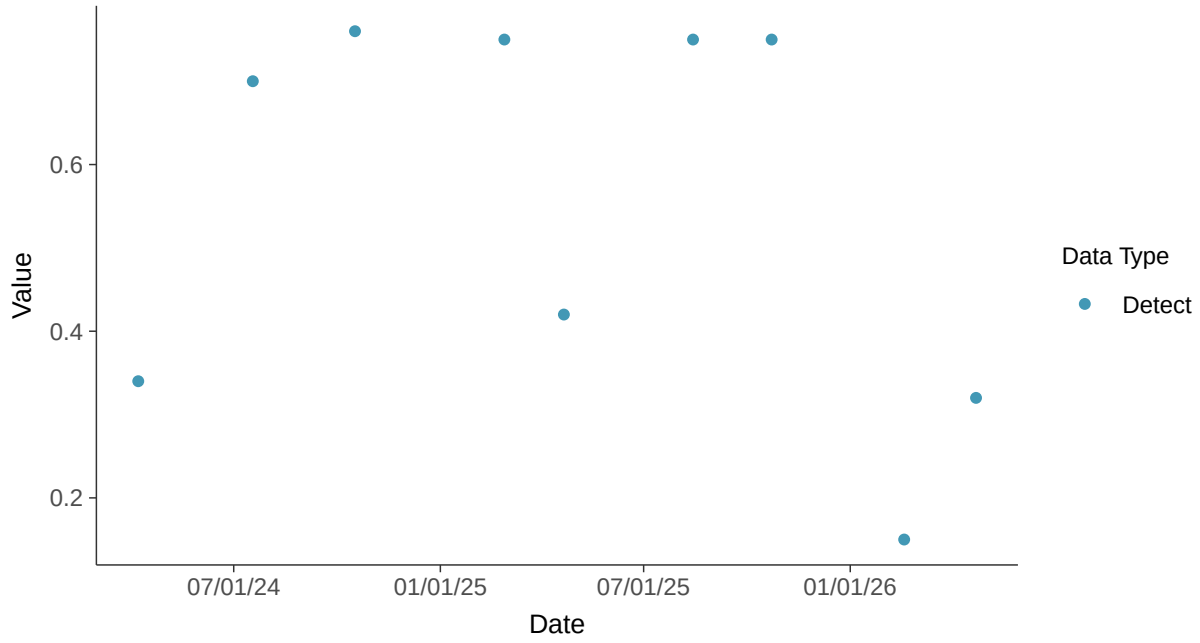


Appendix IV: Barium, MW-28

ID: 38_1_4_103

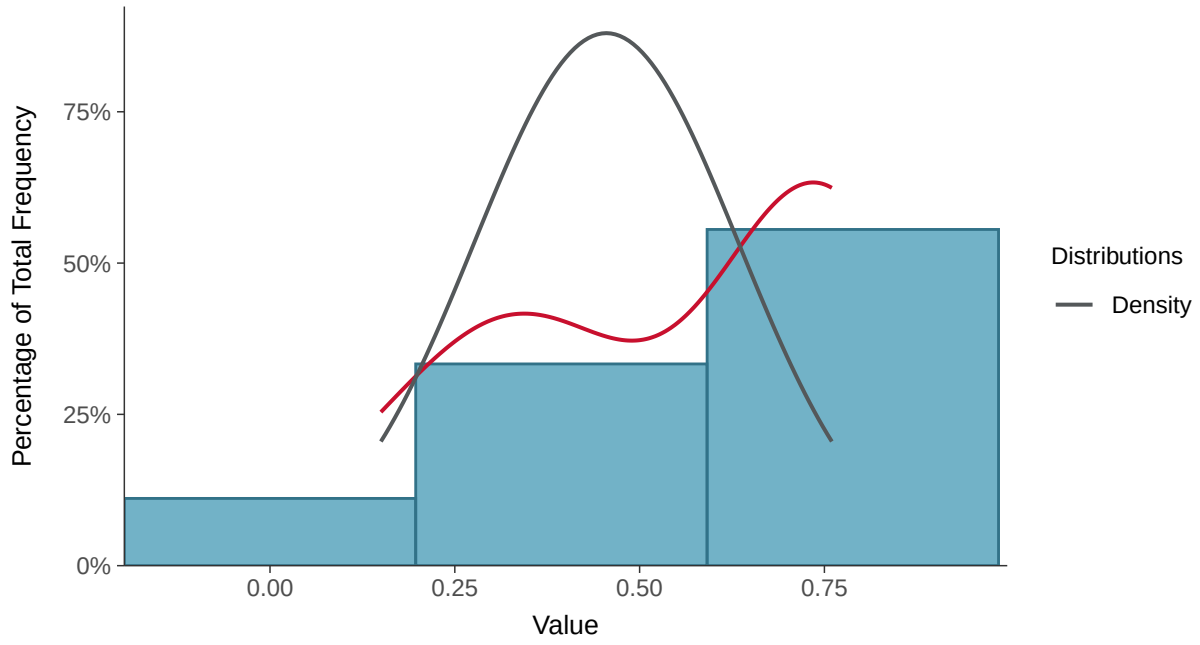
Scatter Plot

Barium, MW-28 (mg/L)



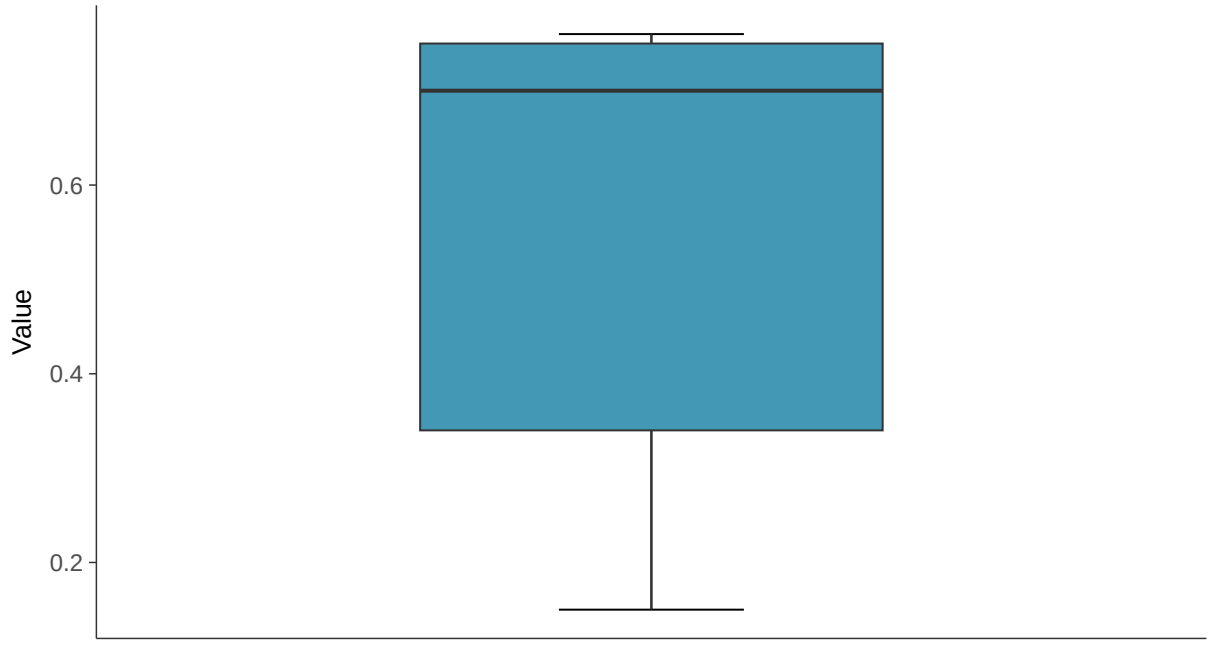
Histogram

Barium, MW-28 (mg/L)



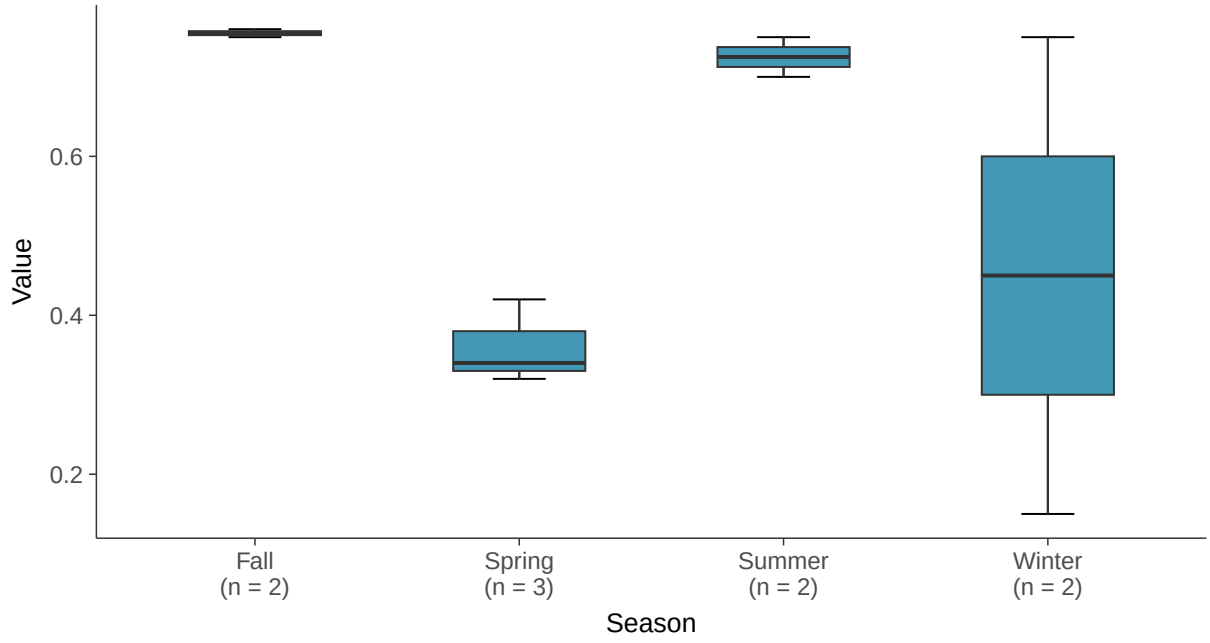
Boxplot

Barium, MW-28 (mg/L)



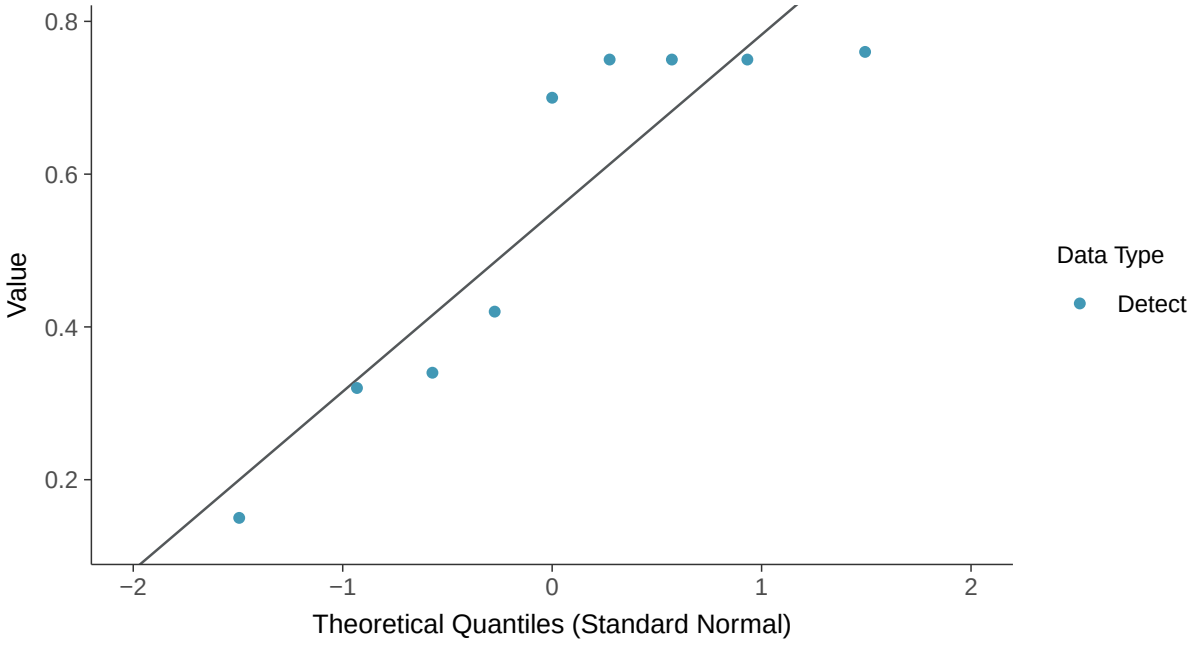
Boxplot by Season

Barium, MW-28 (mg/L)



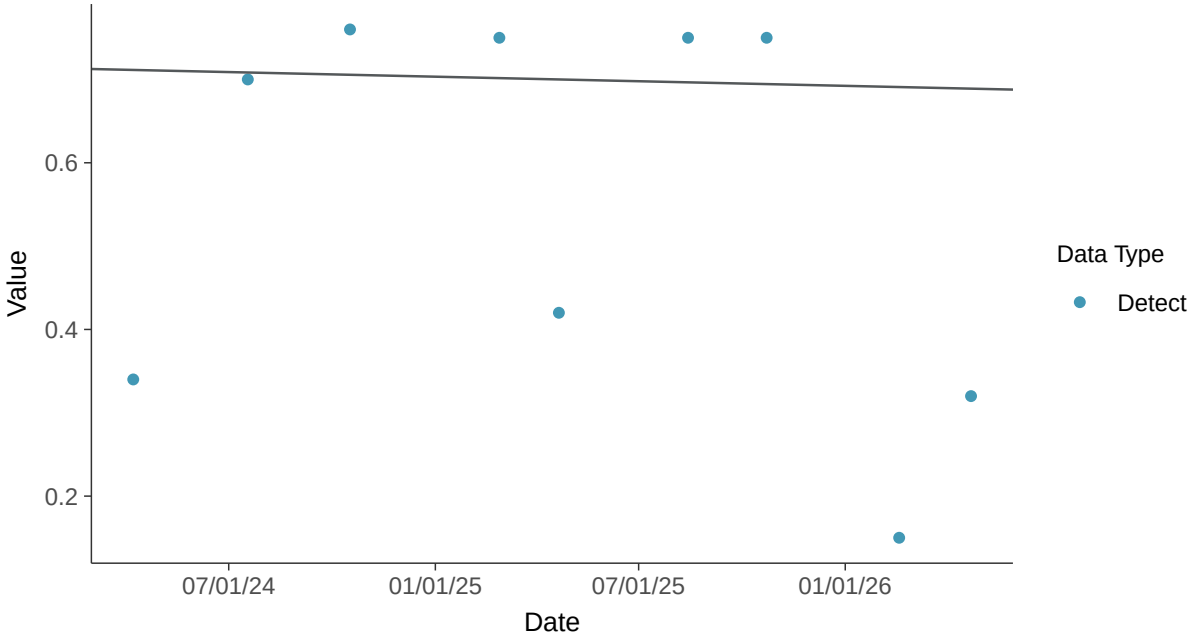
Normal Q-Q plot

Barium, MW-28 (mg/L)



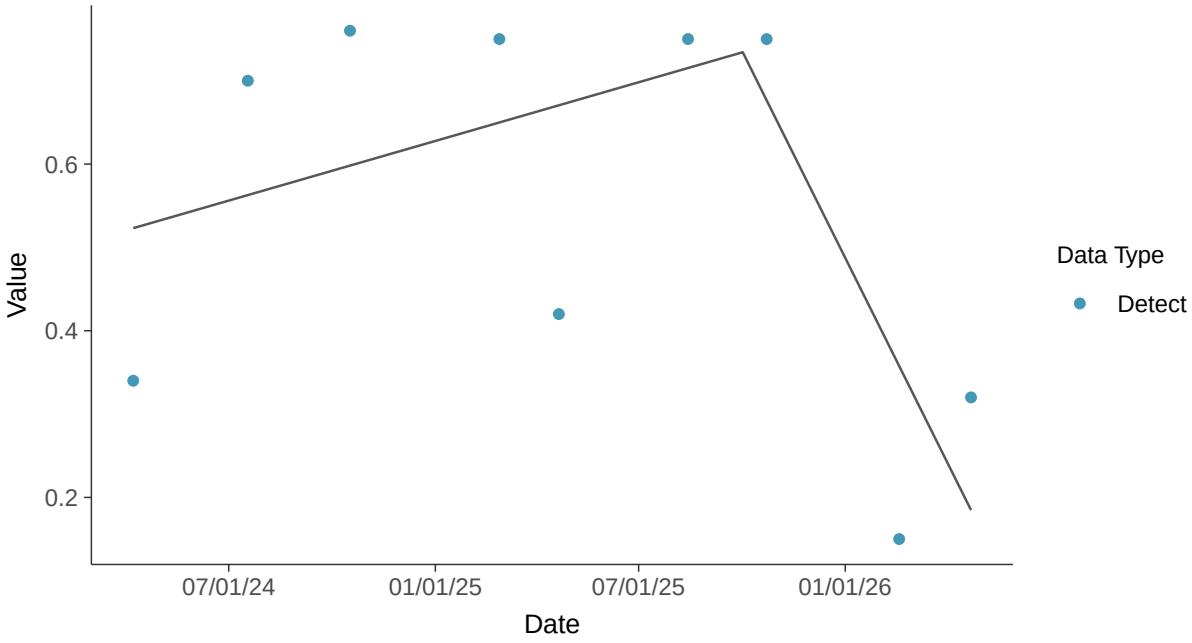
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Barium, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Barium, MW-28 (mg/L)

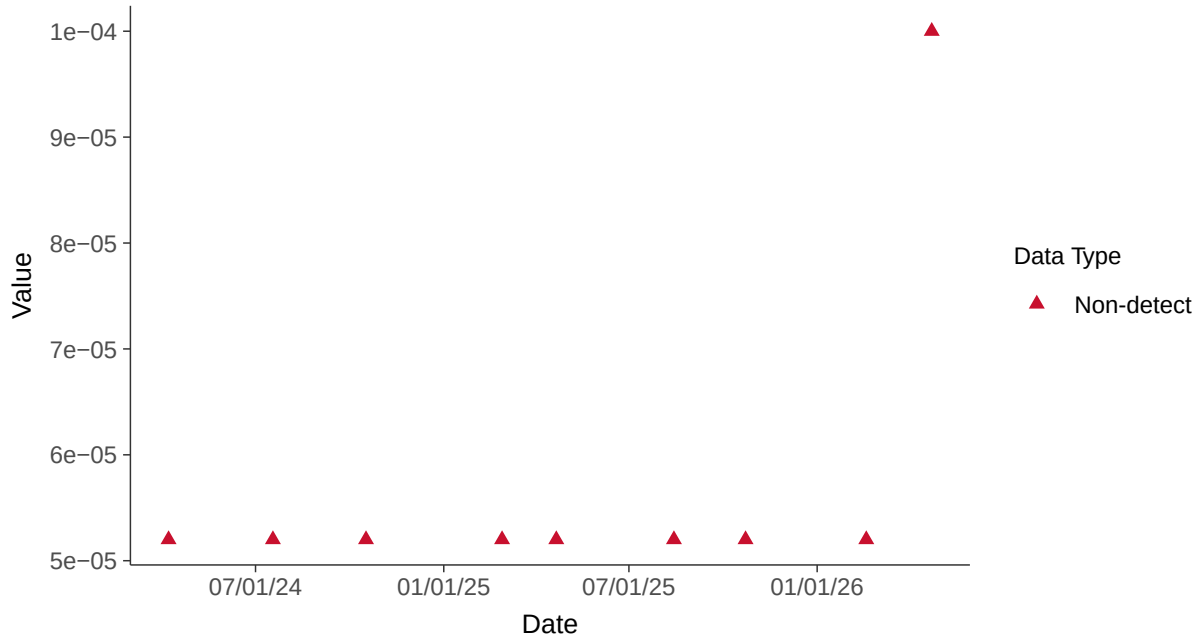


Appendix IV: Beryllium, MW-28

ID: 38_1_4_104

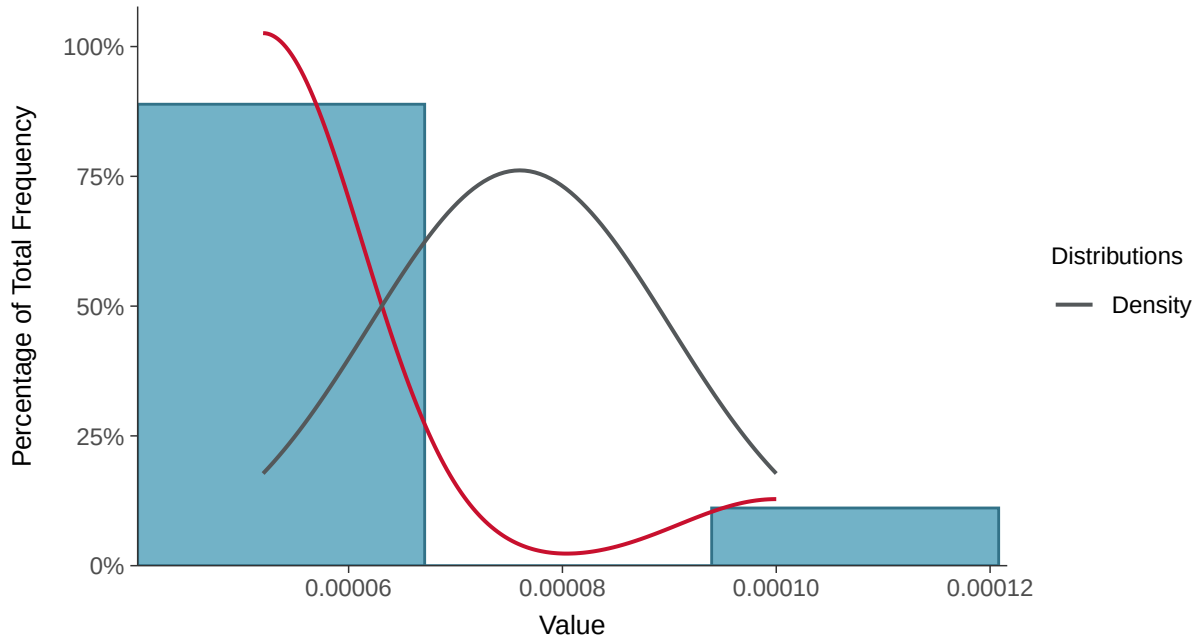
Scatter Plot

Beryllium, MW-28 (mg/L)



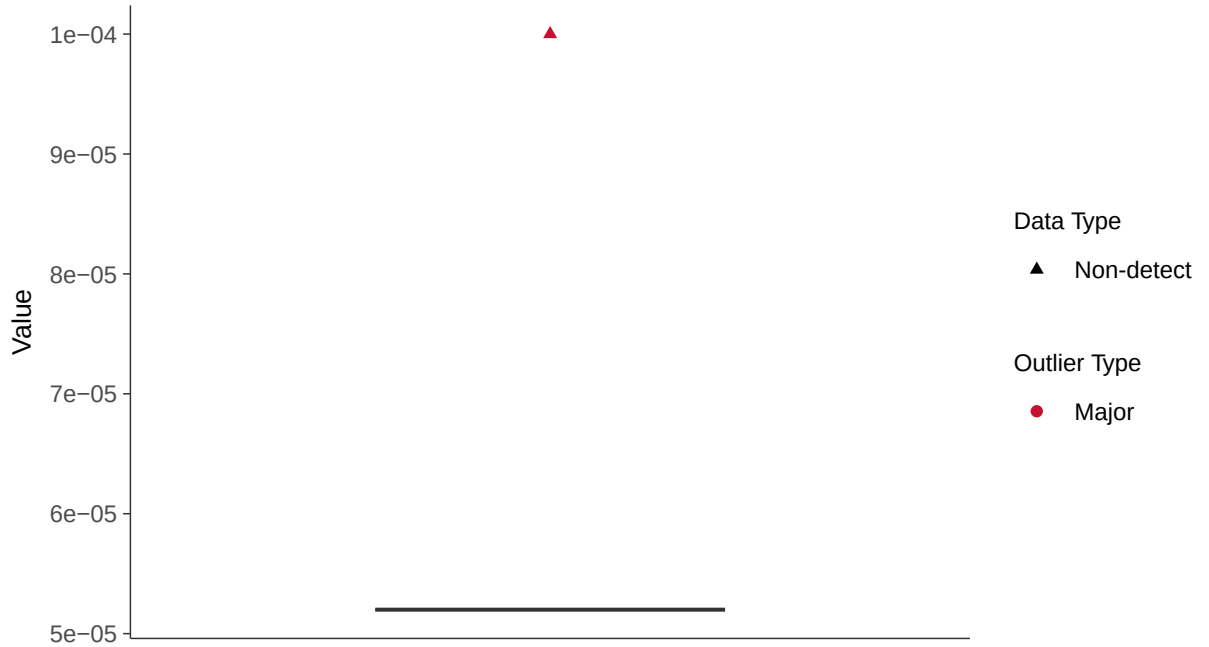
Histogram

Beryllium, MW-28 (mg/L)



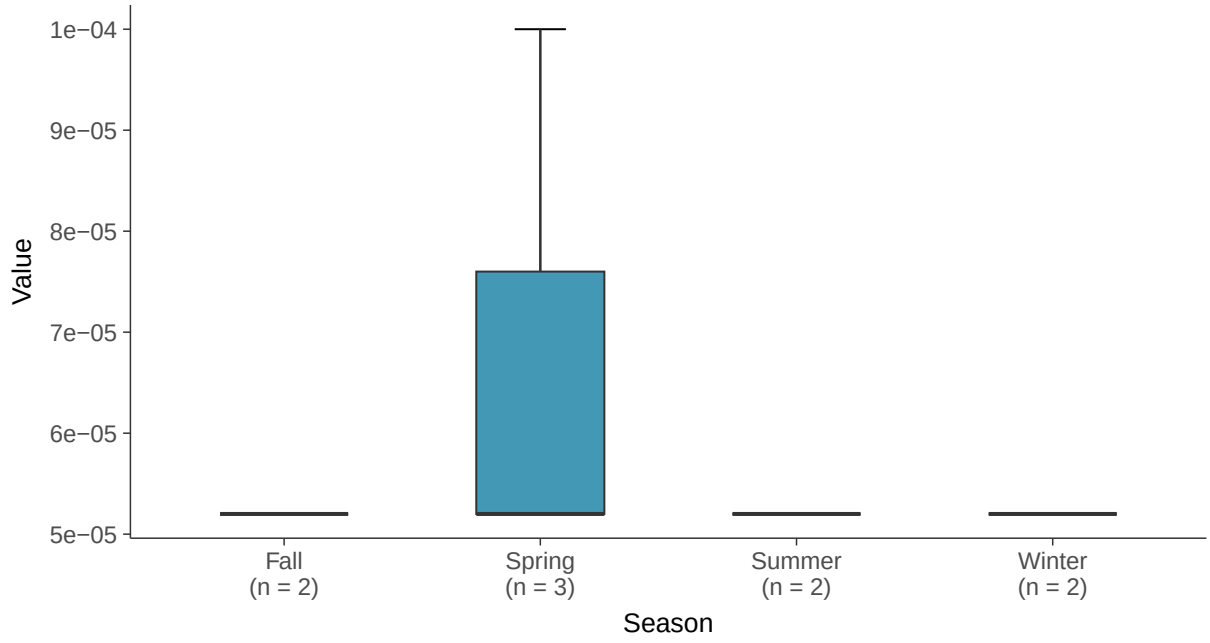
Boxplot

Beryllium, MW-28 (mg/L)



Boxplot by Season

Beryllium, MW-28 (mg/L)

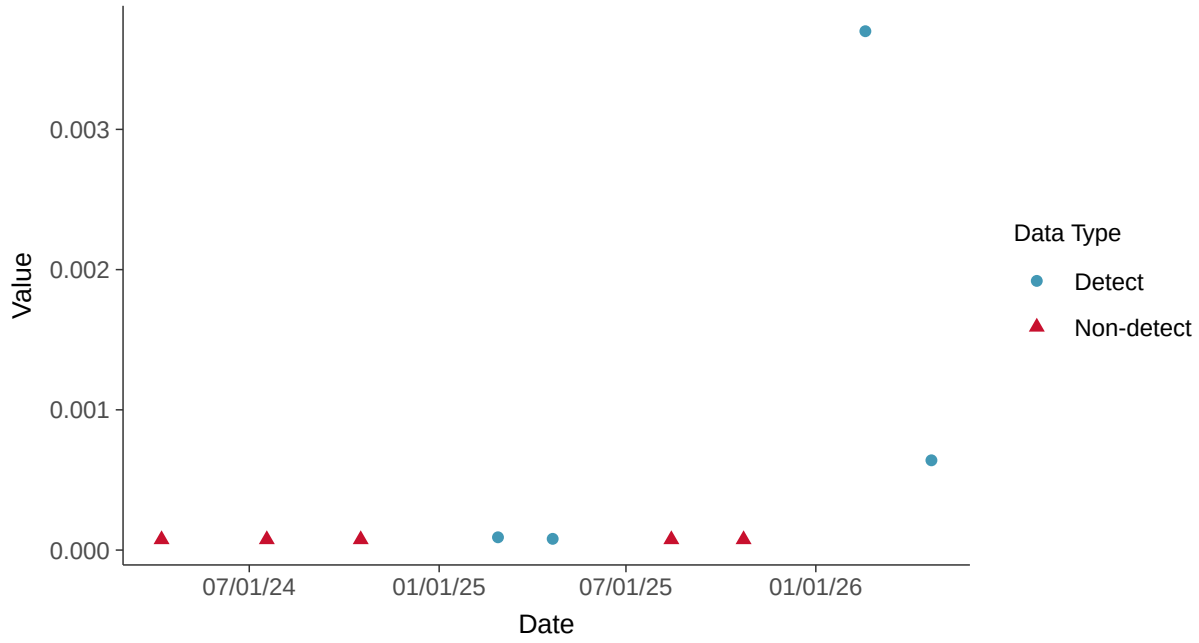


Appendix IV: Cadmium, MW-28

ID: 38_1_4_106

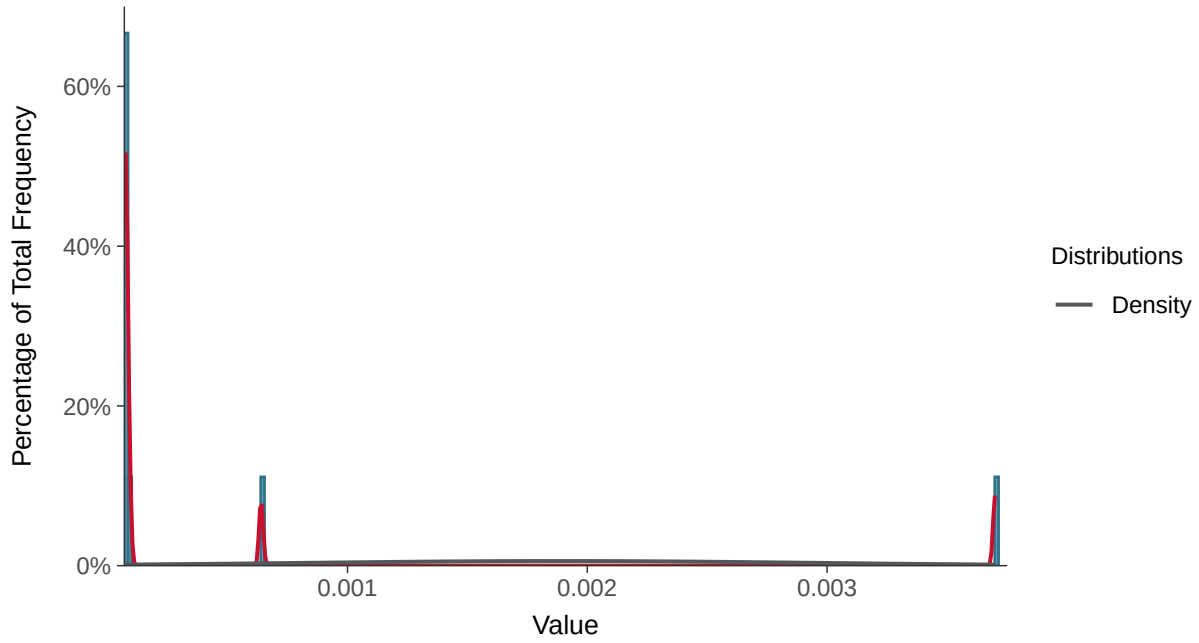
Scatter Plot

Cadmium, MW-28 (mg/L)



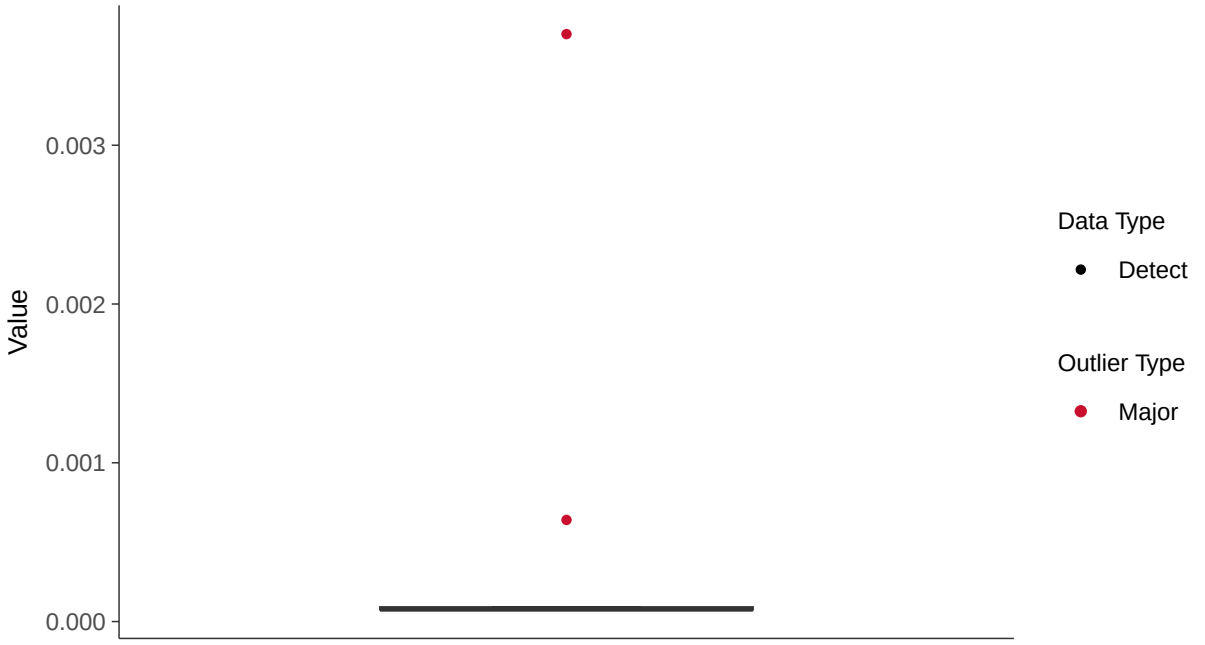
Histogram

Cadmium, MW-28 (mg/L)



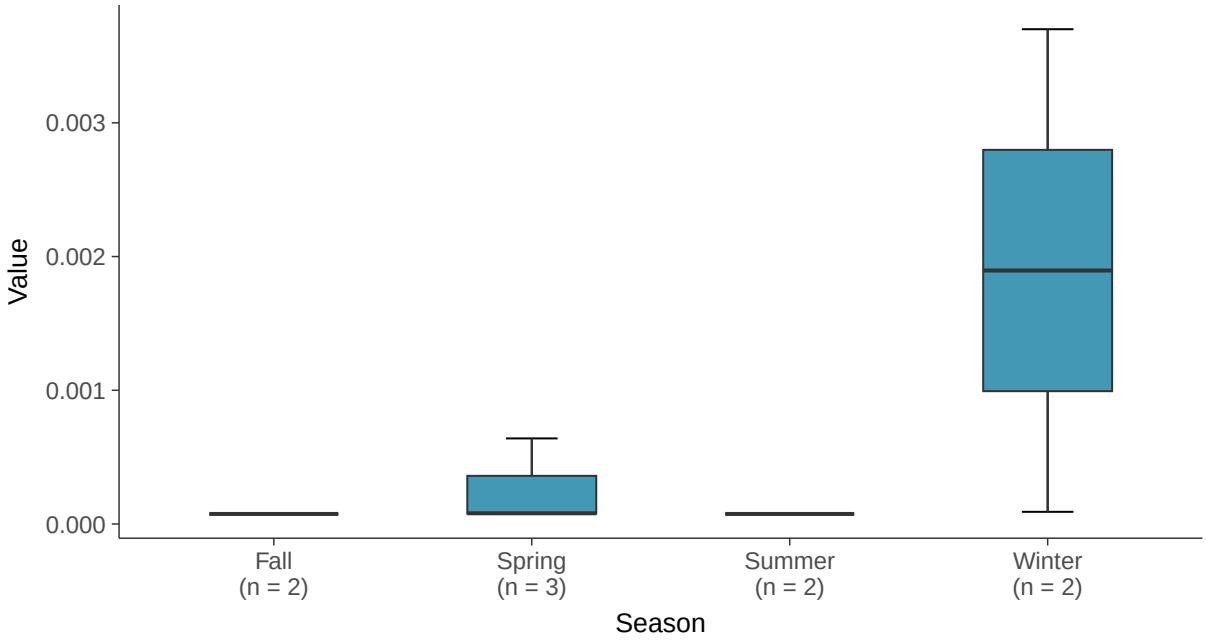
Boxplot

Cadmium, MW-28 (mg/L)



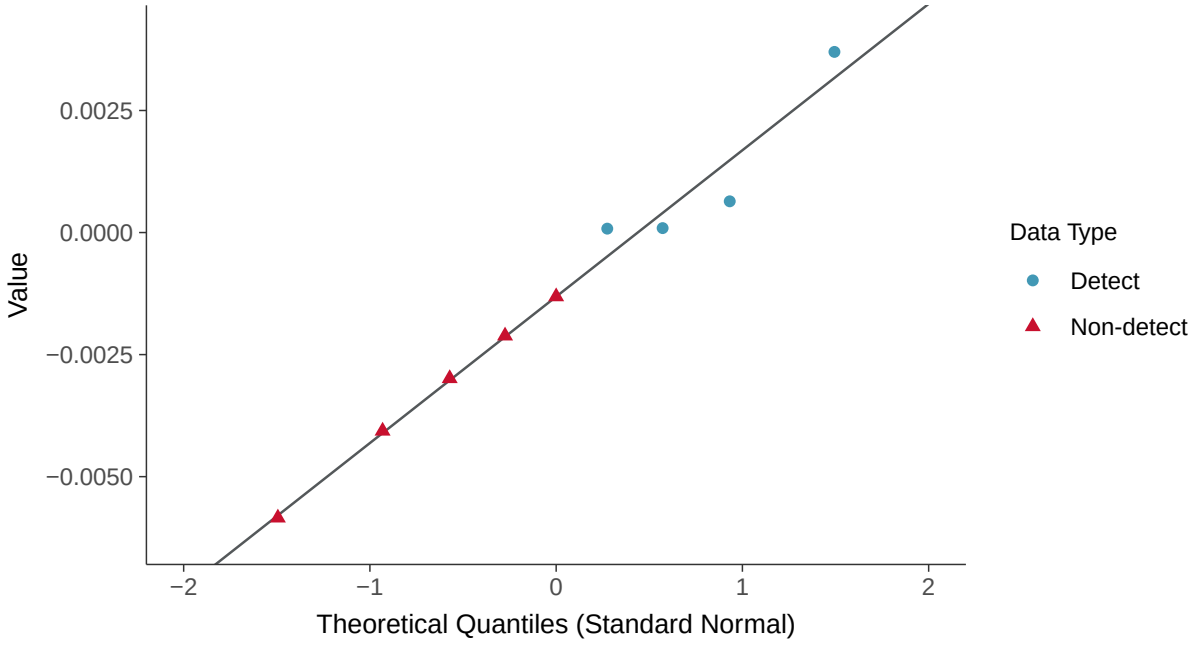
Boxplot by Season

Cadmium, MW-28 (mg/L)



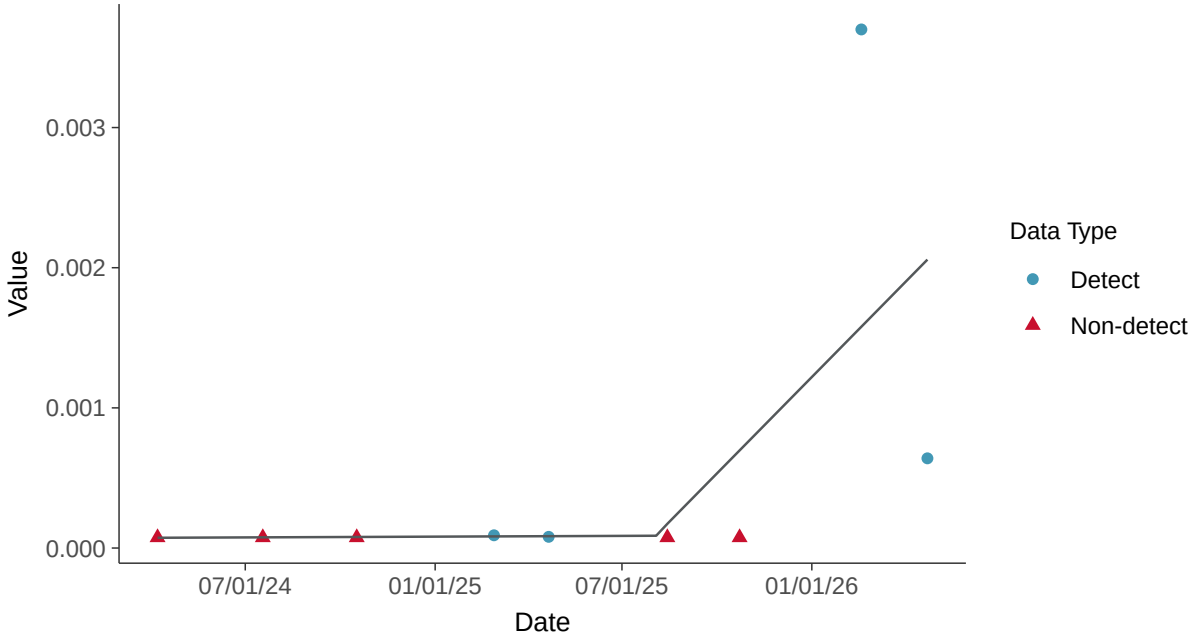
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Cadmium, MW-28 (mg/L)

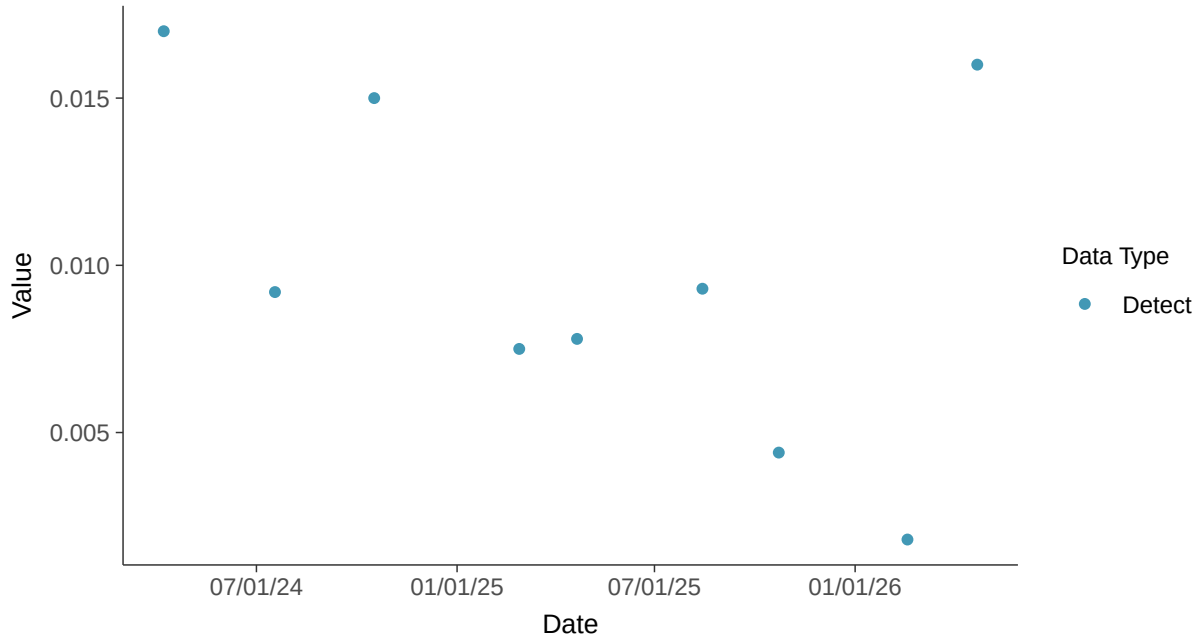


Appendix IV: Chromium, Total, MW-28

ID: 38_1_4_109

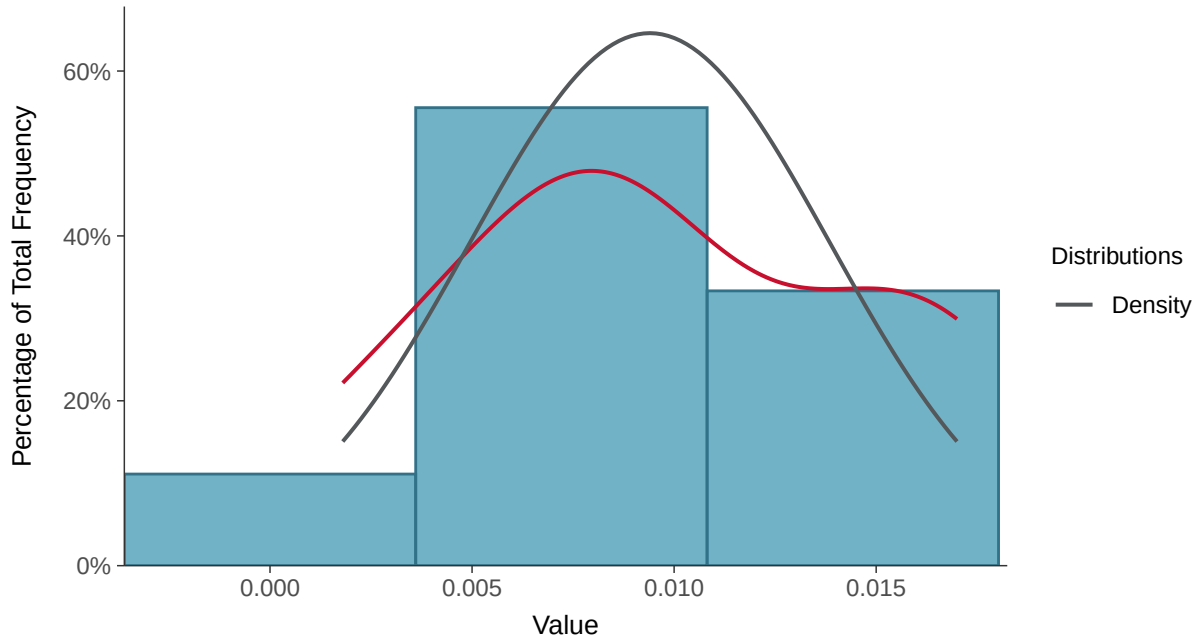
Scatter Plot

Chromium, Total, MW-28 (mg/L)



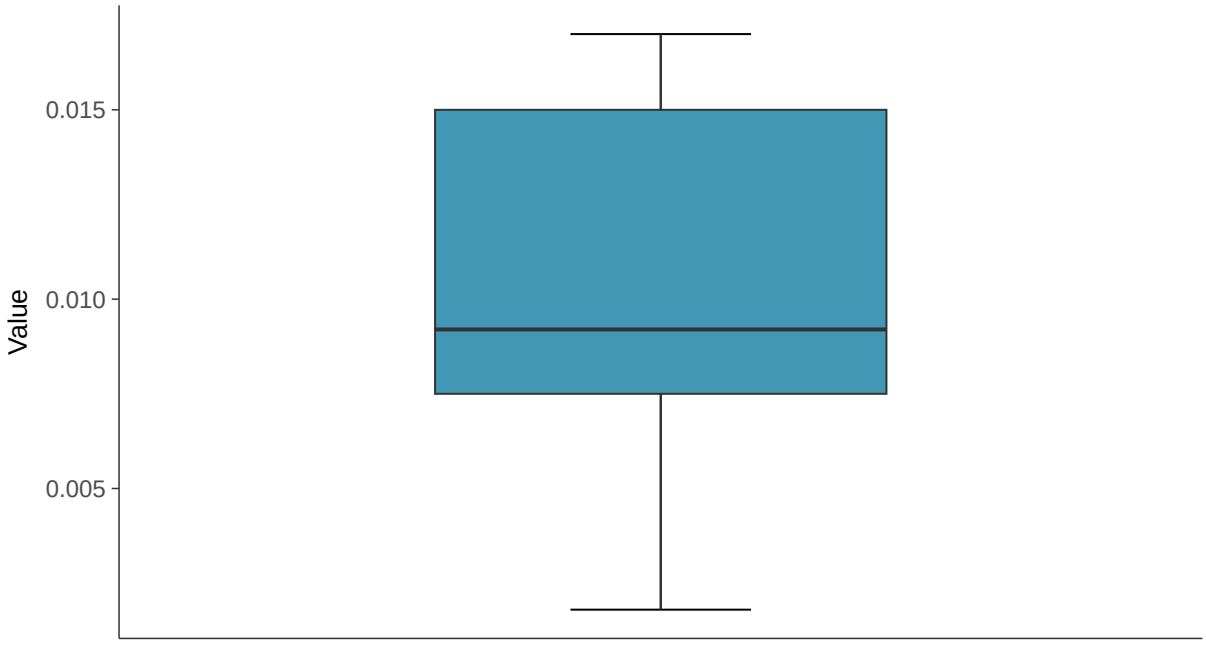
Histogram

Chromium, Total, MW-28 (mg/L)



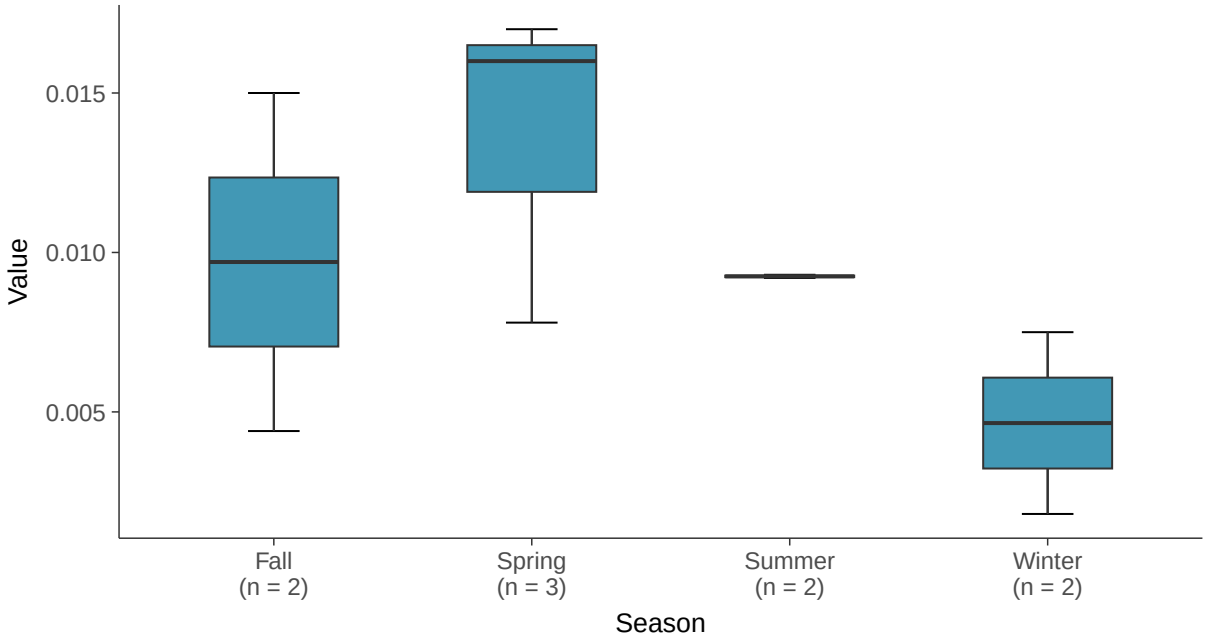
Boxplot

Chromium, Total, MW-28 (mg/L)



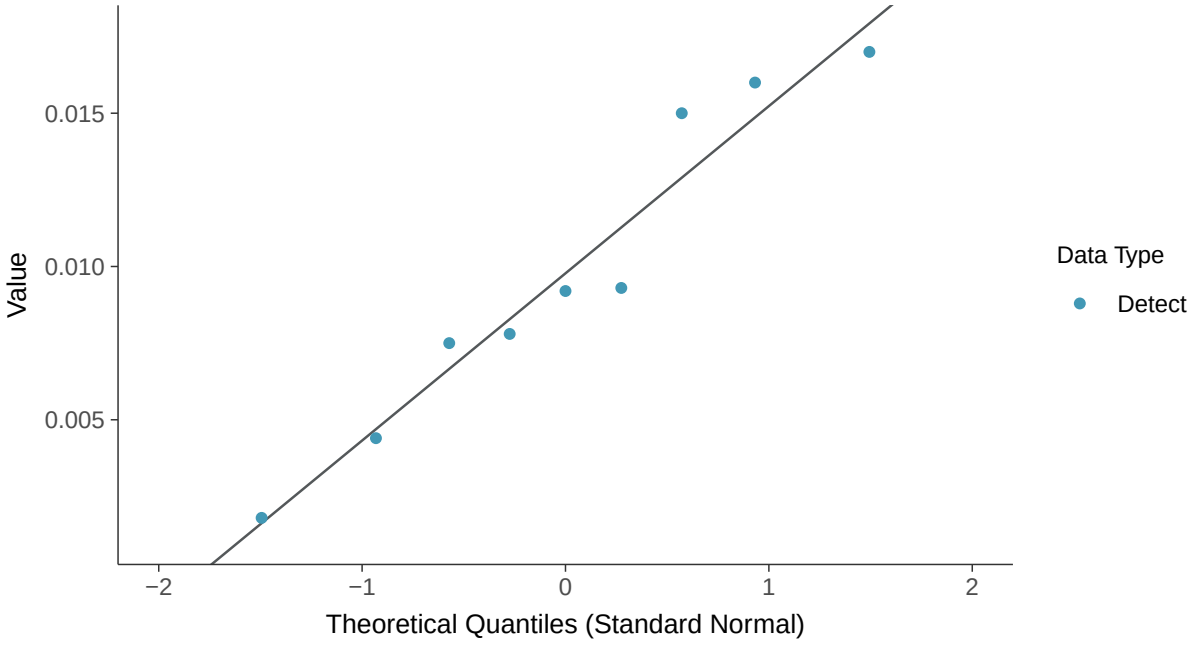
Boxplot by Season

Chromium, Total, MW-28 (mg/L)



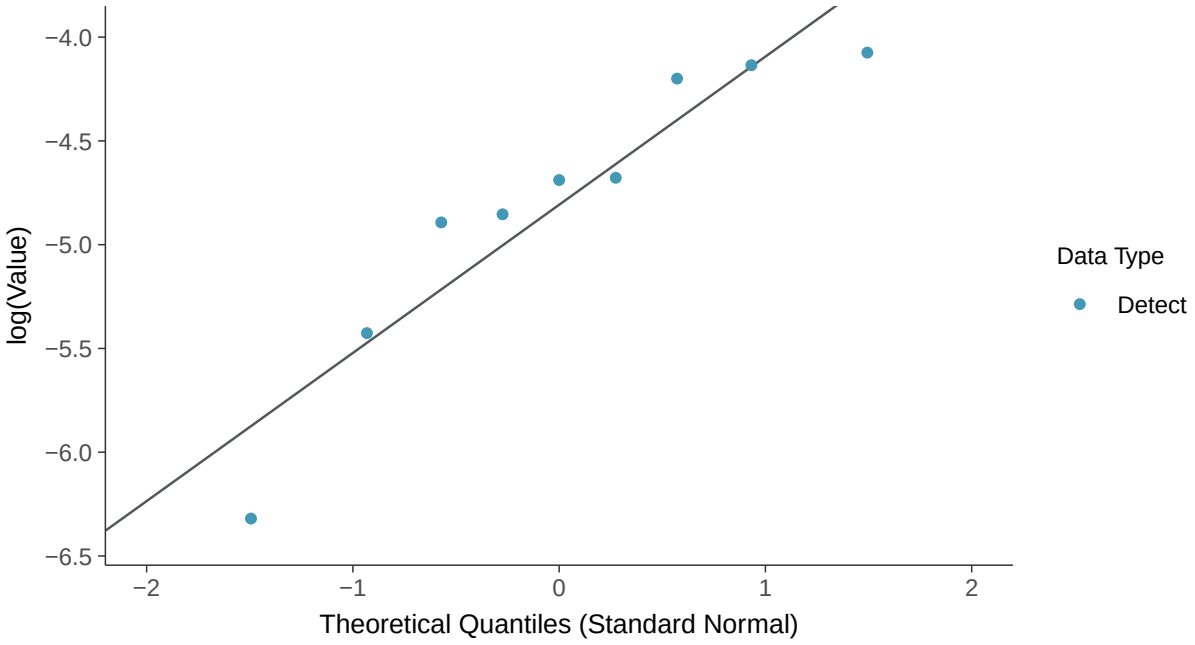
Normal Q-Q plot

Chromium, Total, MW-28 (mg/L)



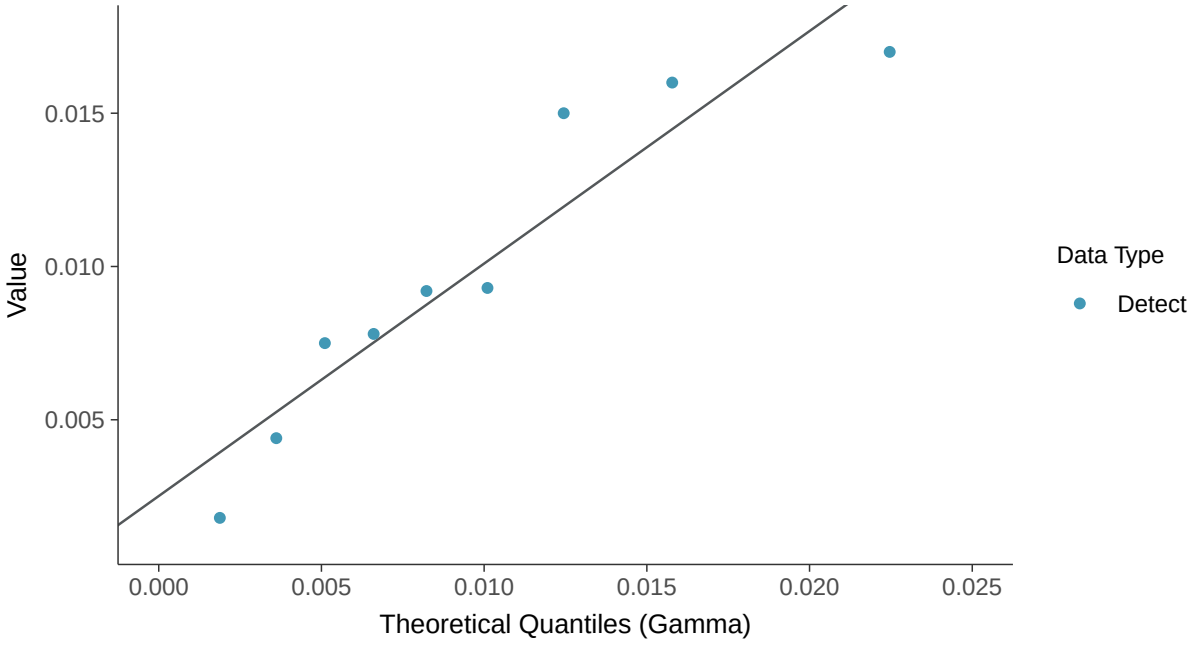
Lognormal Q-Q plot

Chromium, Total, MW-28 (mg/L)



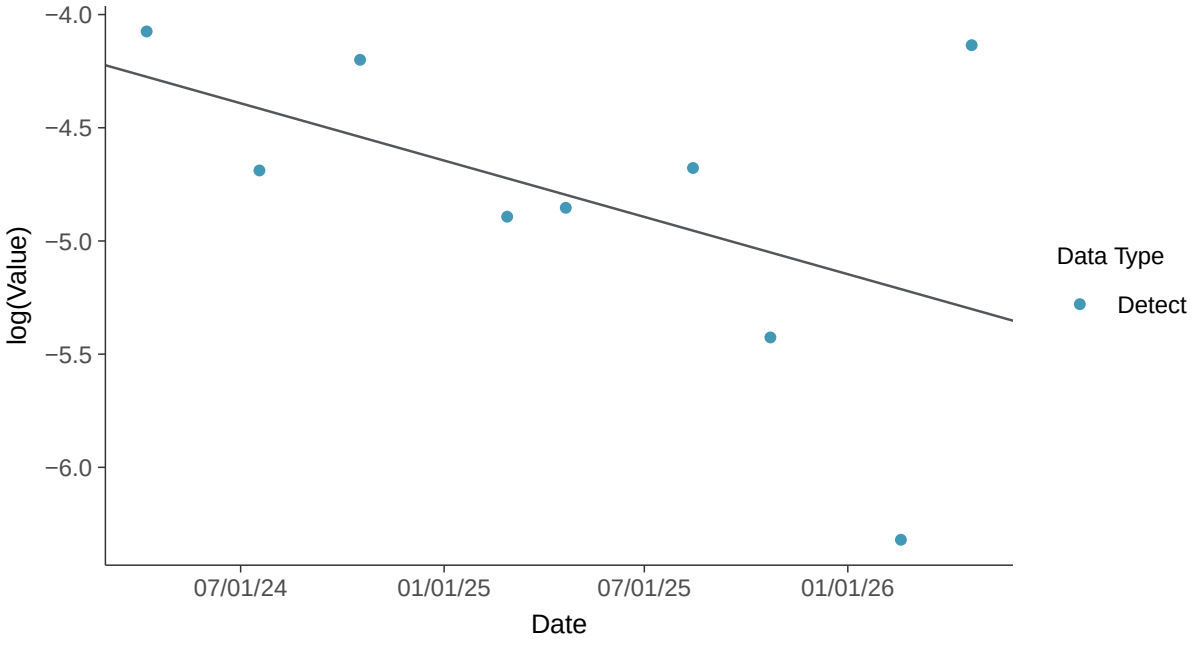
Gamma Q-Q plot

Chromium, Total, MW-28 (mg/L)



Trend Regression: Lognormal MLE

Chromium, Total, MW-28 (mg/L)

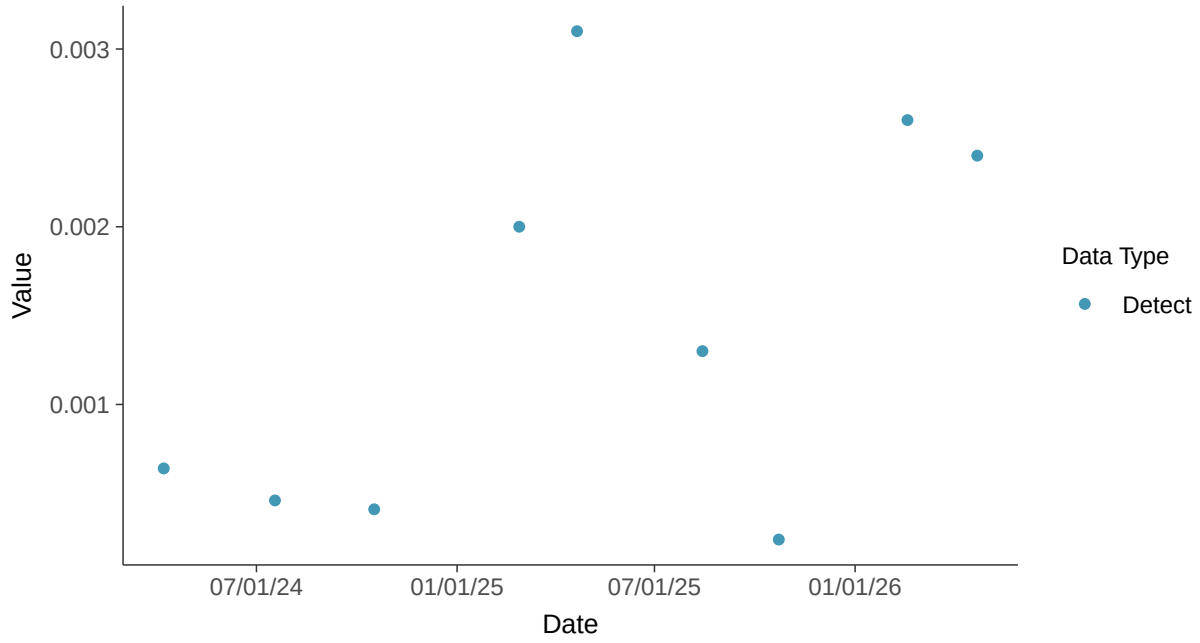


Appendix IV: Cobalt, MW-28

ID: 38_1_4_110

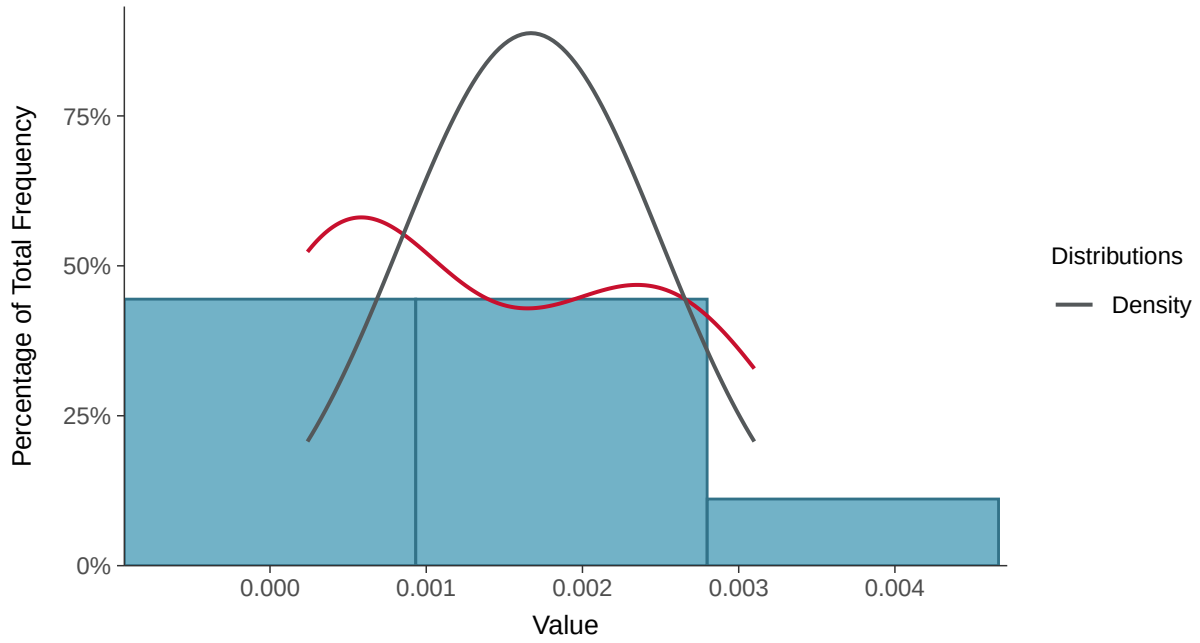
Scatter Plot

Cobalt, MW-28 (mg/L)



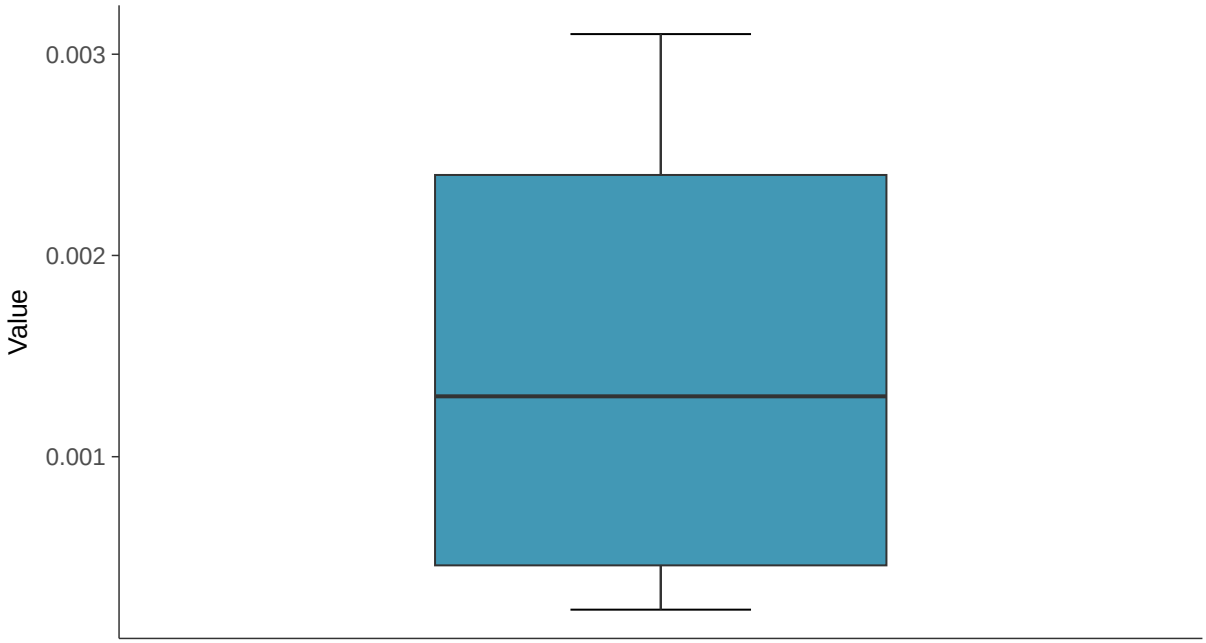
Histogram

Cobalt, MW-28 (mg/L)



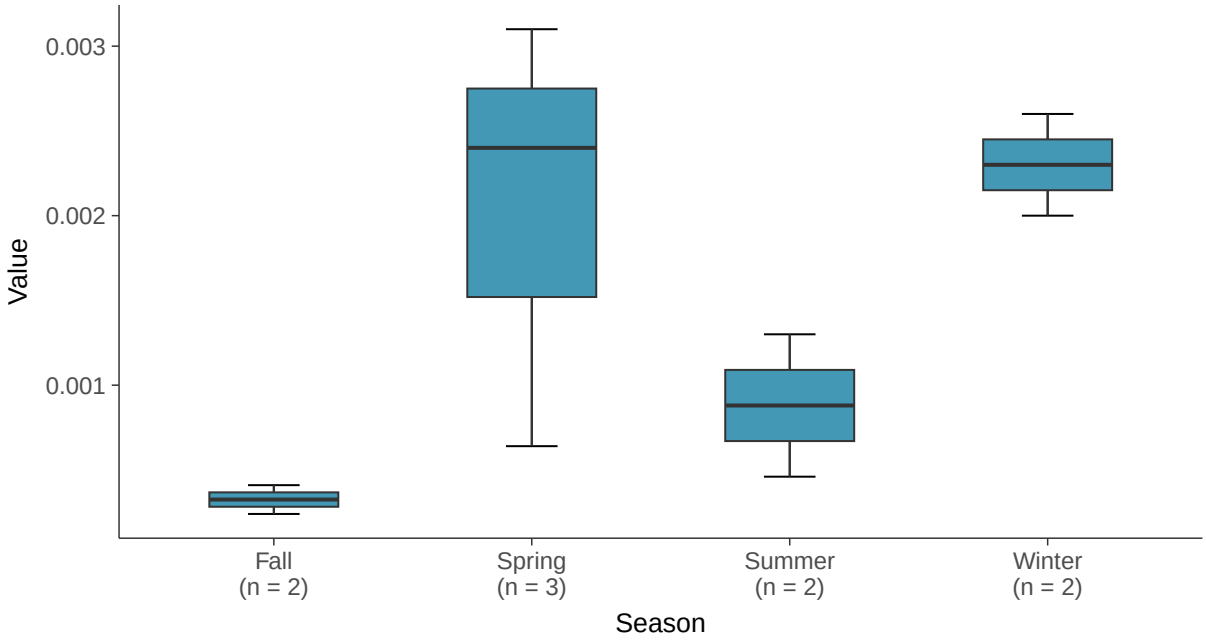
Boxplot

Cobalt, MW-28 (mg/L)



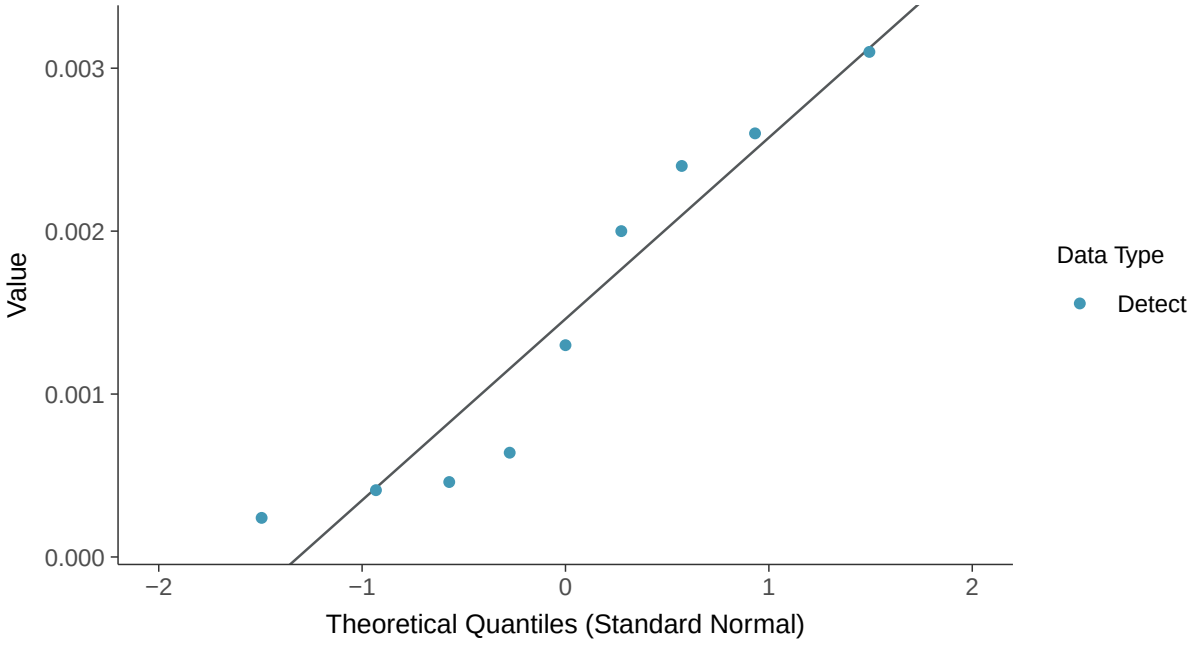
Boxplot by Season

Cobalt, MW-28 (mg/L)



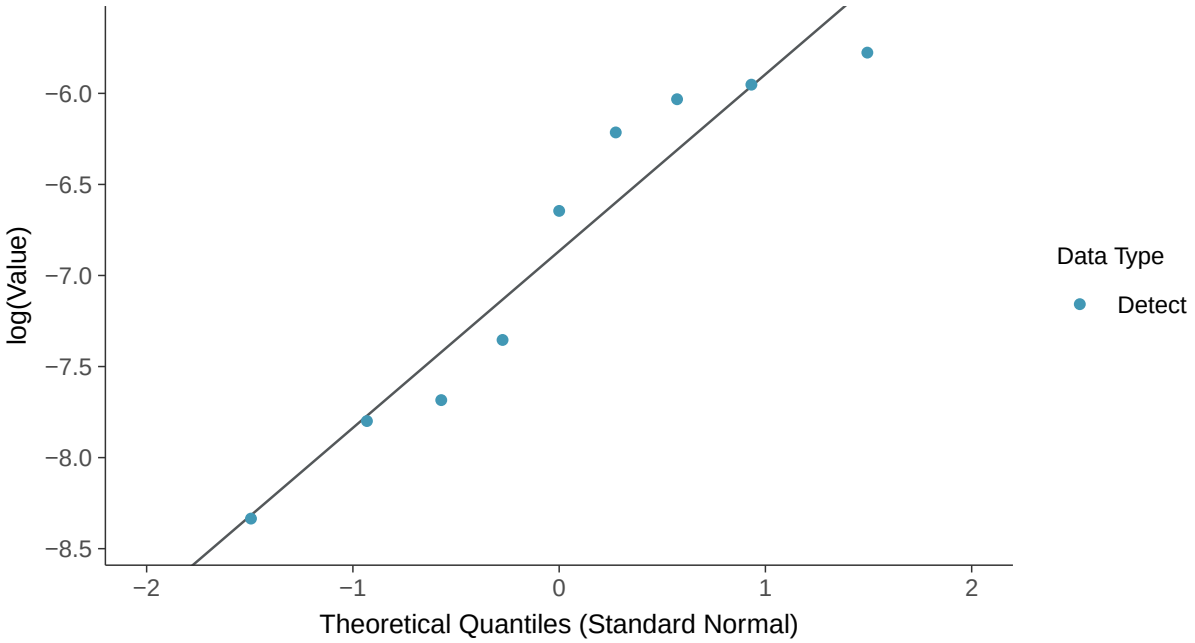
Normal Q-Q plot

Cobalt, MW-28 (mg/L)



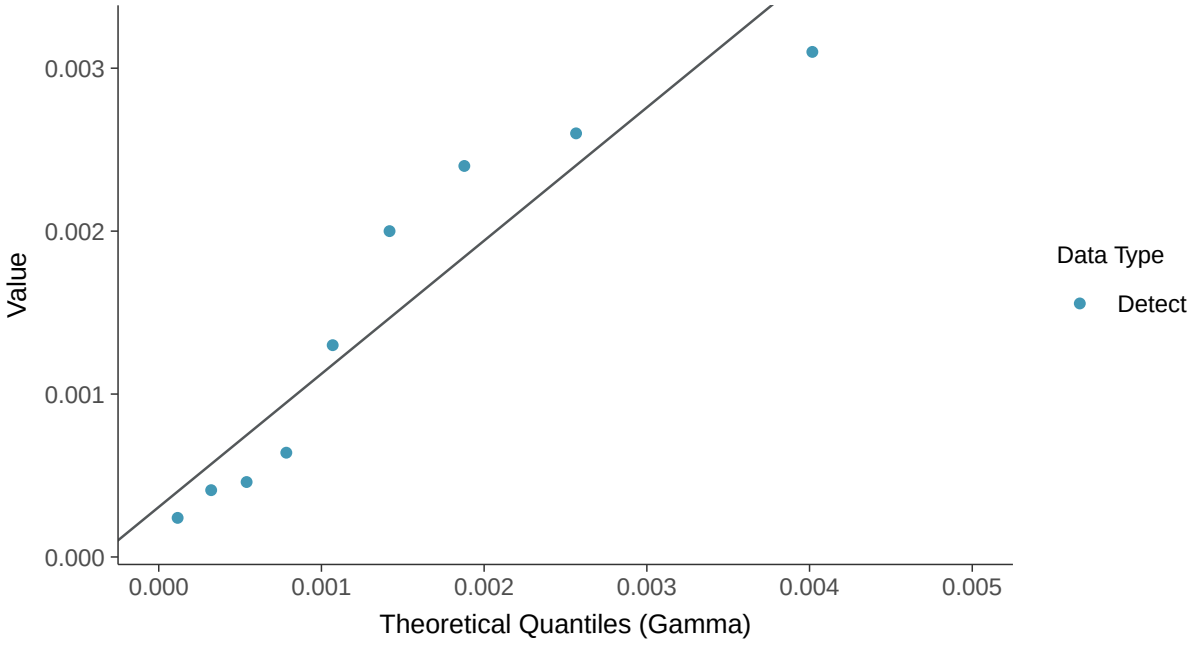
Lognormal Q-Q plot

Cobalt, MW-28 (mg/L)



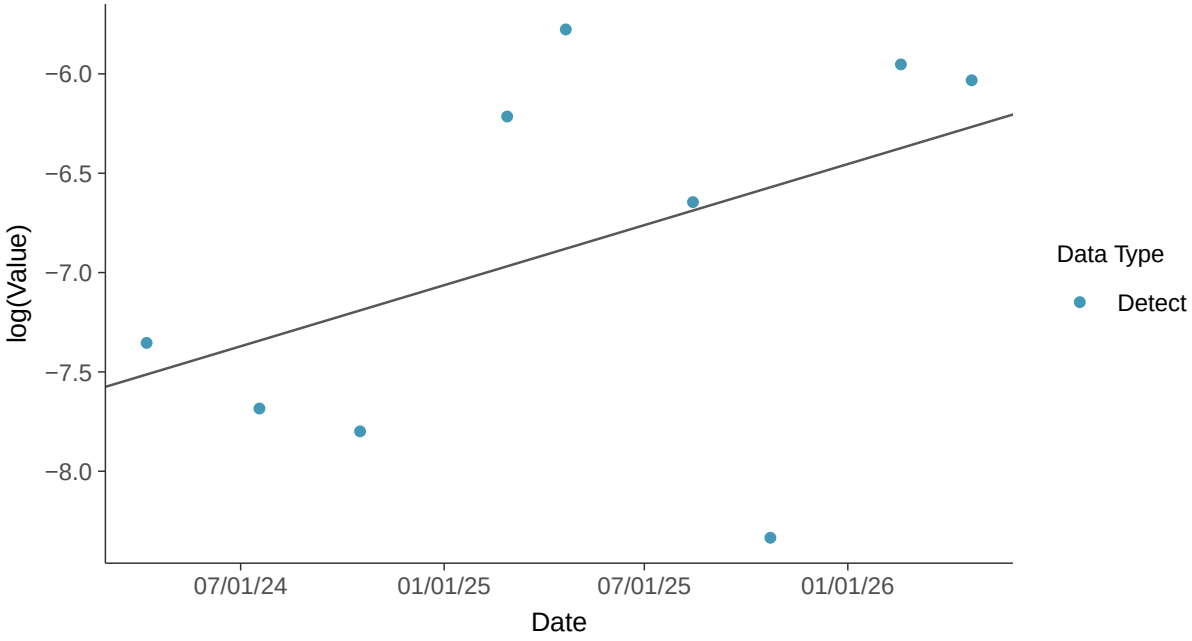
Gamma Q-Q plot

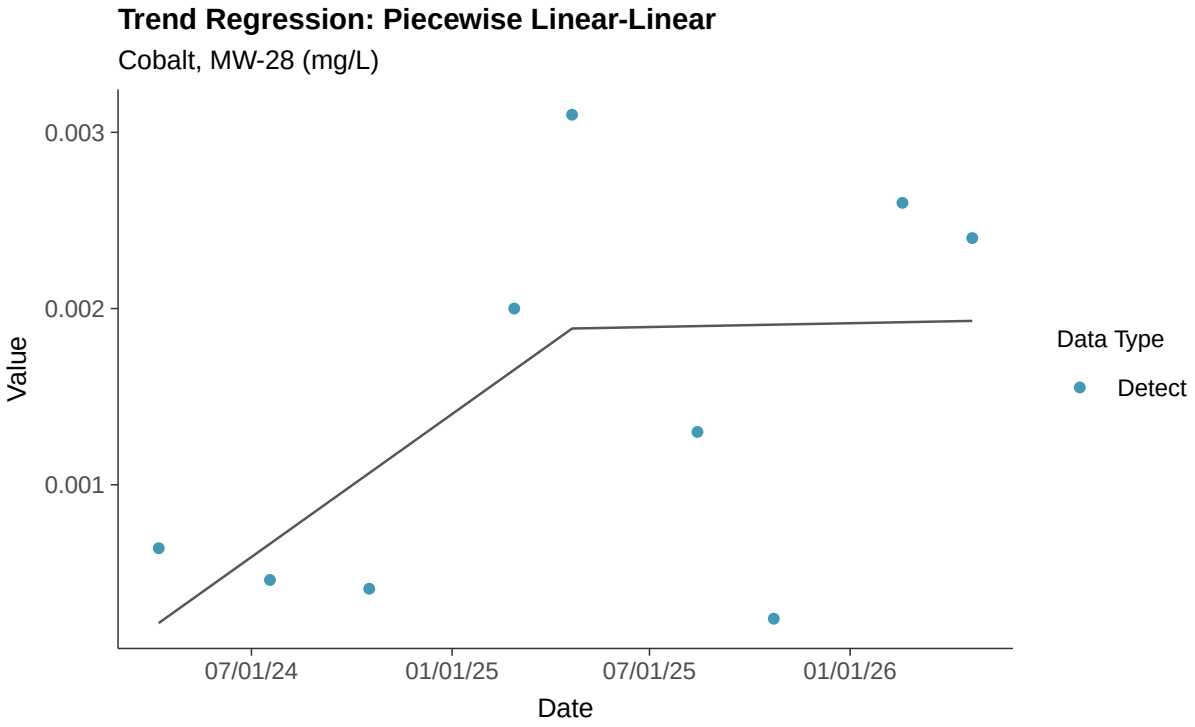
Cobalt, MW-28 (mg/L)



Trend Regression: Lognormal MLE

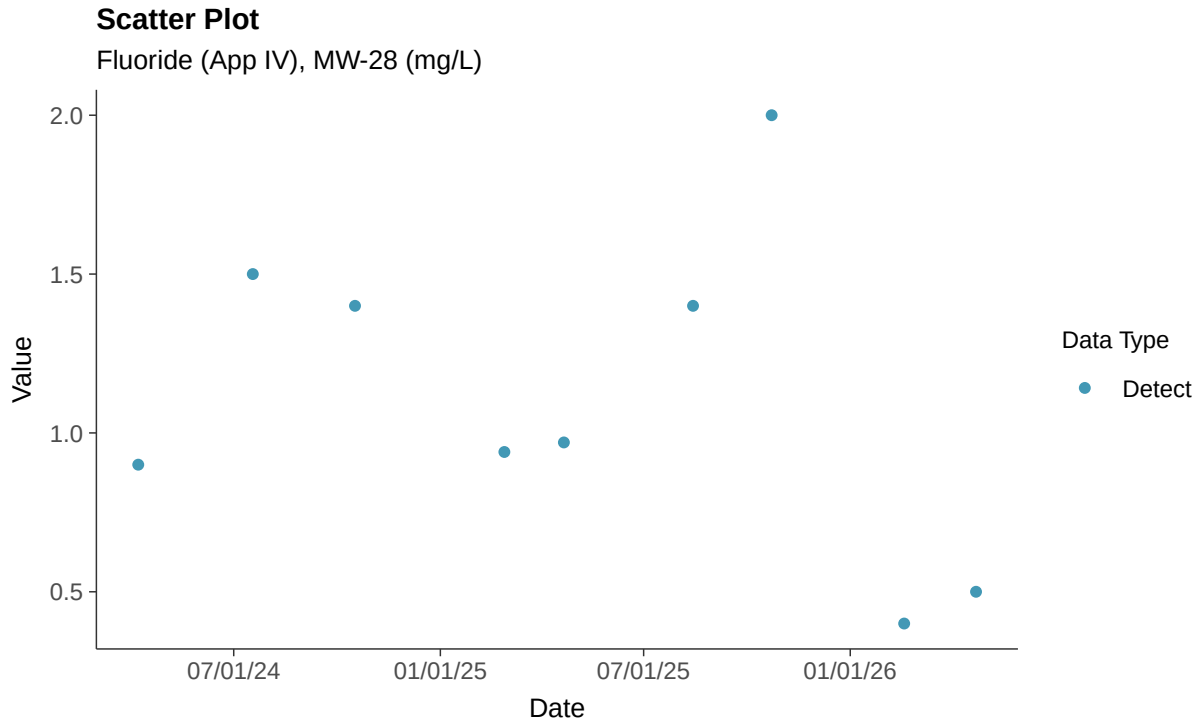
Cobalt, MW-28 (mg/L)

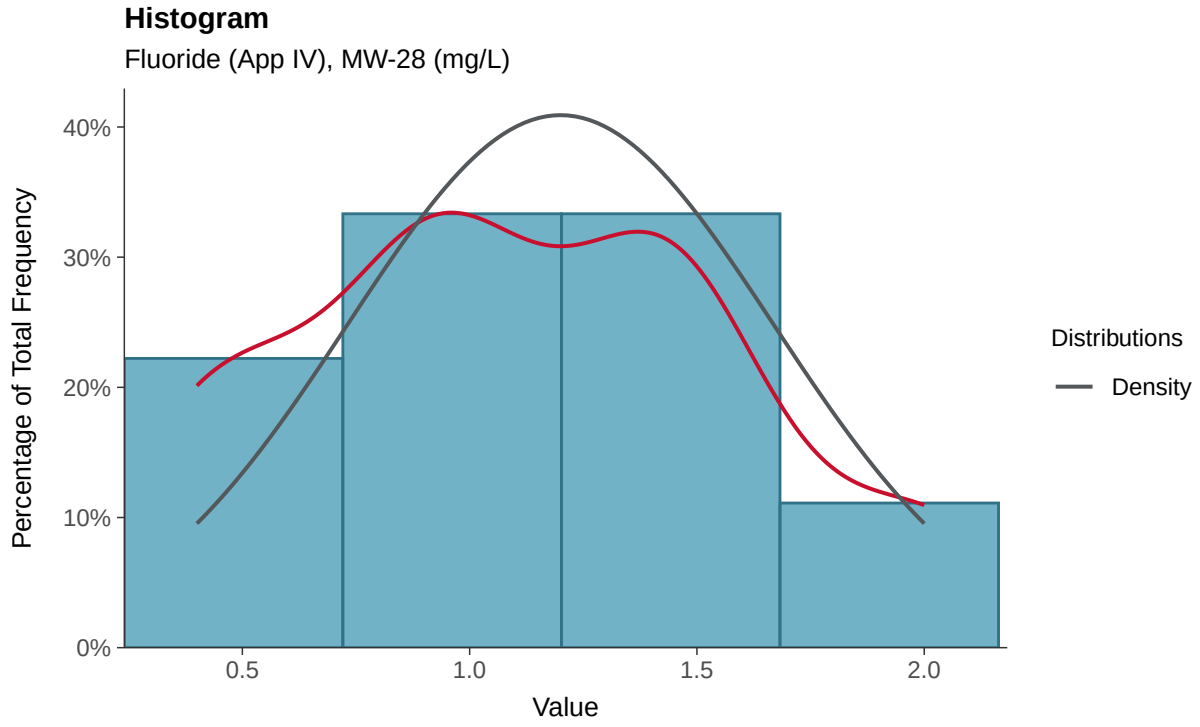



Trend Regression: Piecewise Linear-Linear
Cobalt, MW-28 (mg/L)
0.003
0.002
0.001
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Fluoride (App IV), MW-28

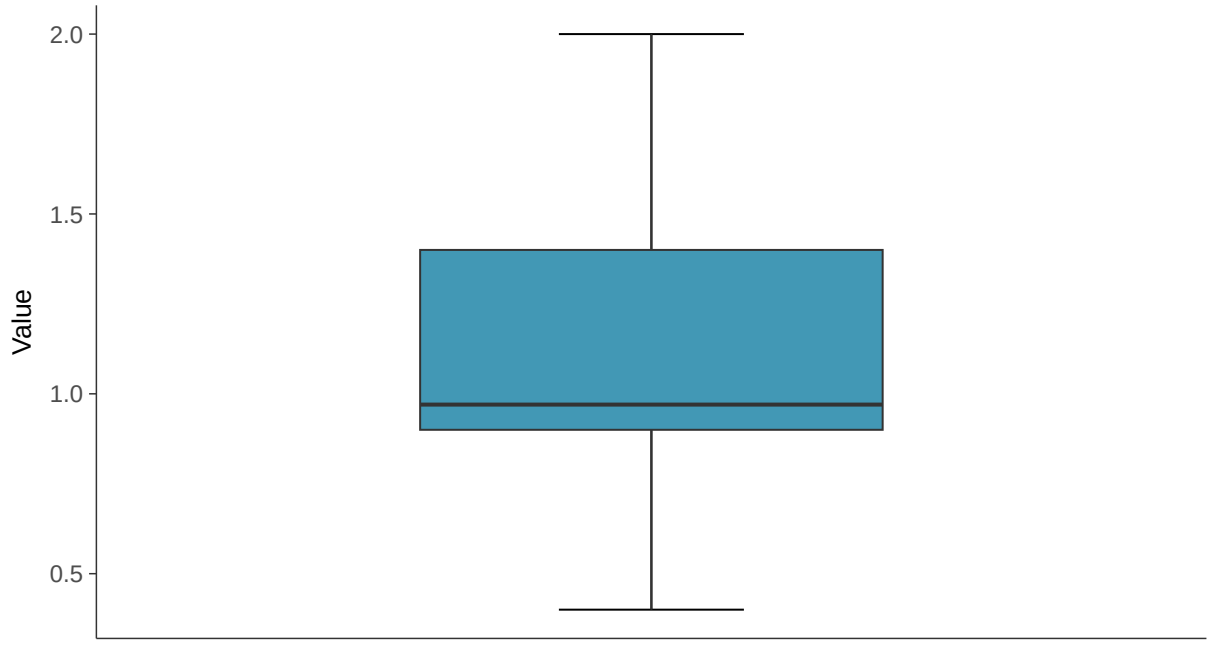
ID: 38_1_4_113





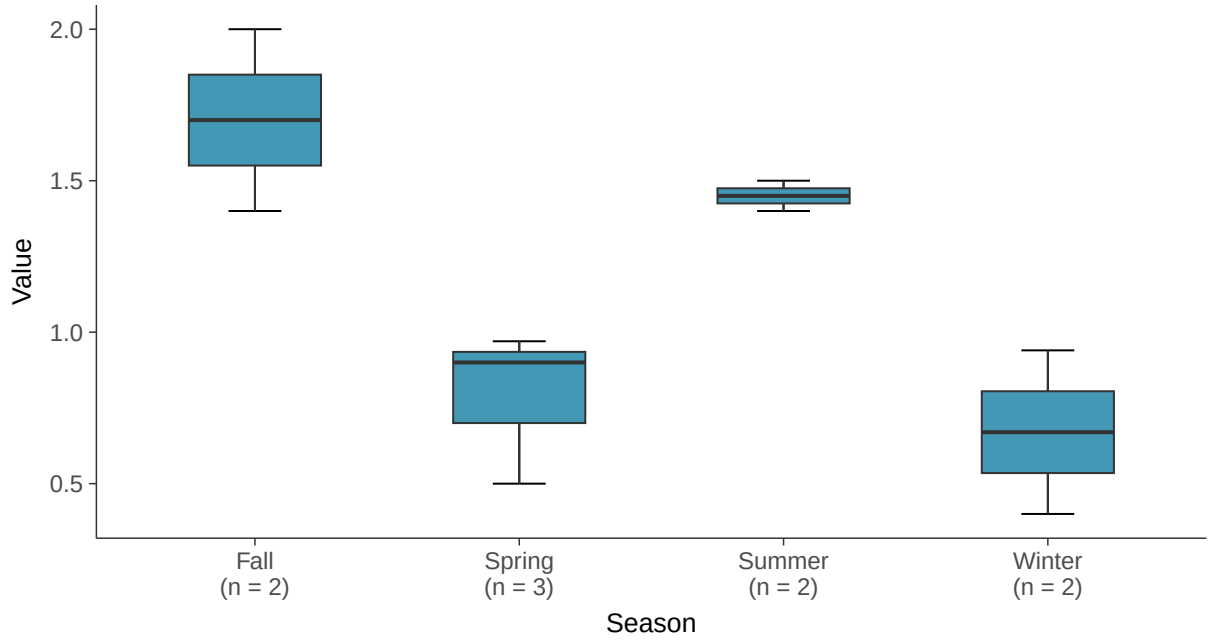
Boxplot

Fluoride (App IV), MW-28 (mg/L)



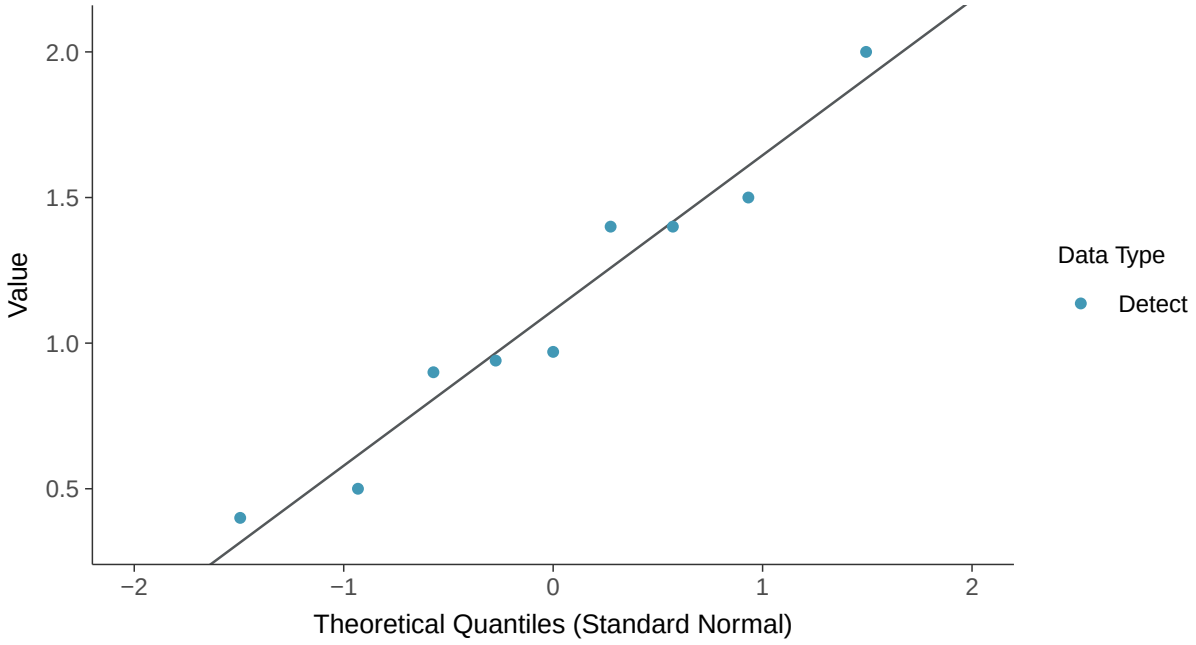
Boxplot by Season

Fluoride (App IV), MW-28 (mg/L)



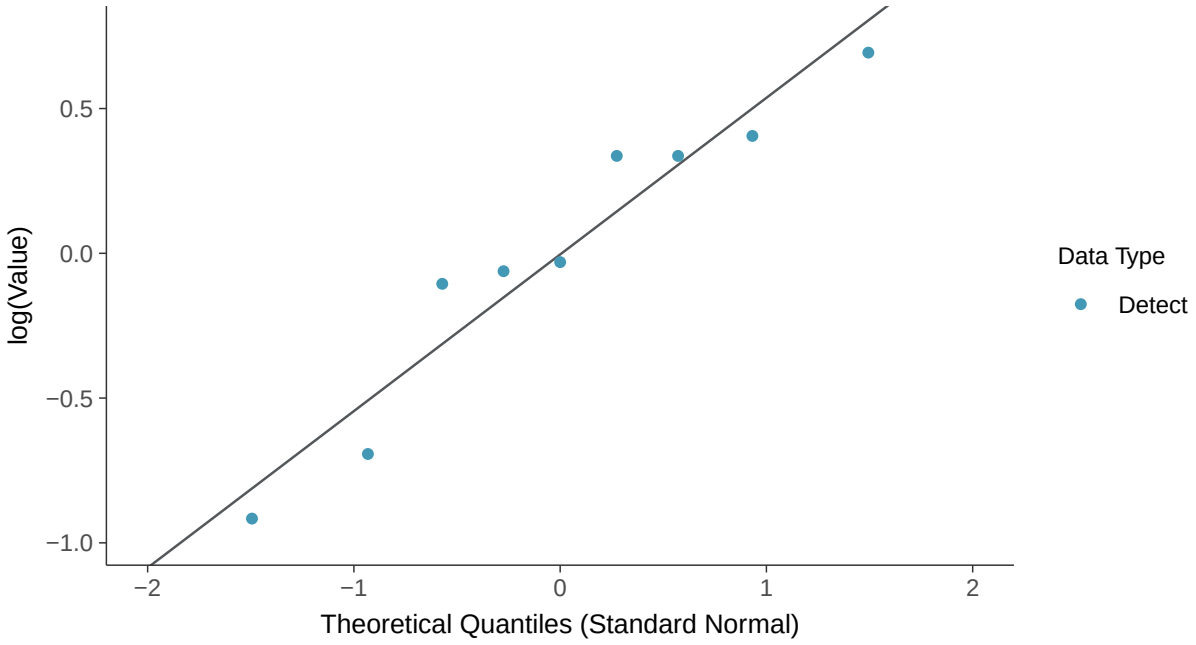
Normal Q-Q plot

Fluoride (App IV), MW-28 (mg/L)



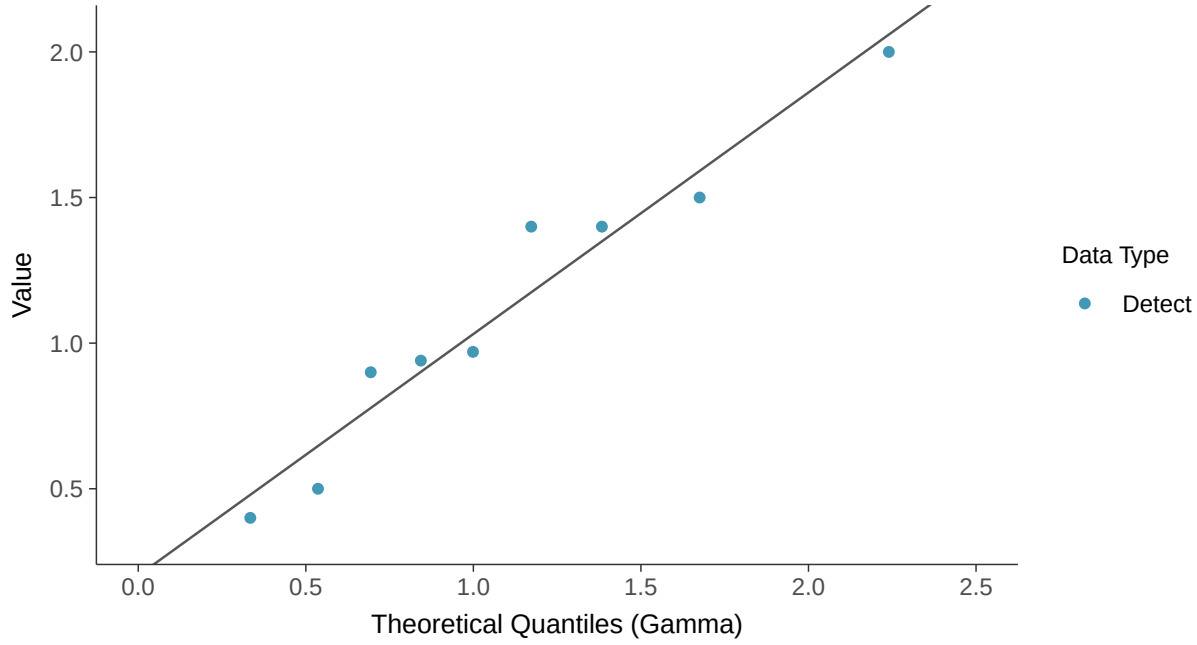
Lognormal Q-Q plot

Fluoride (App IV), MW-28 (mg/L)



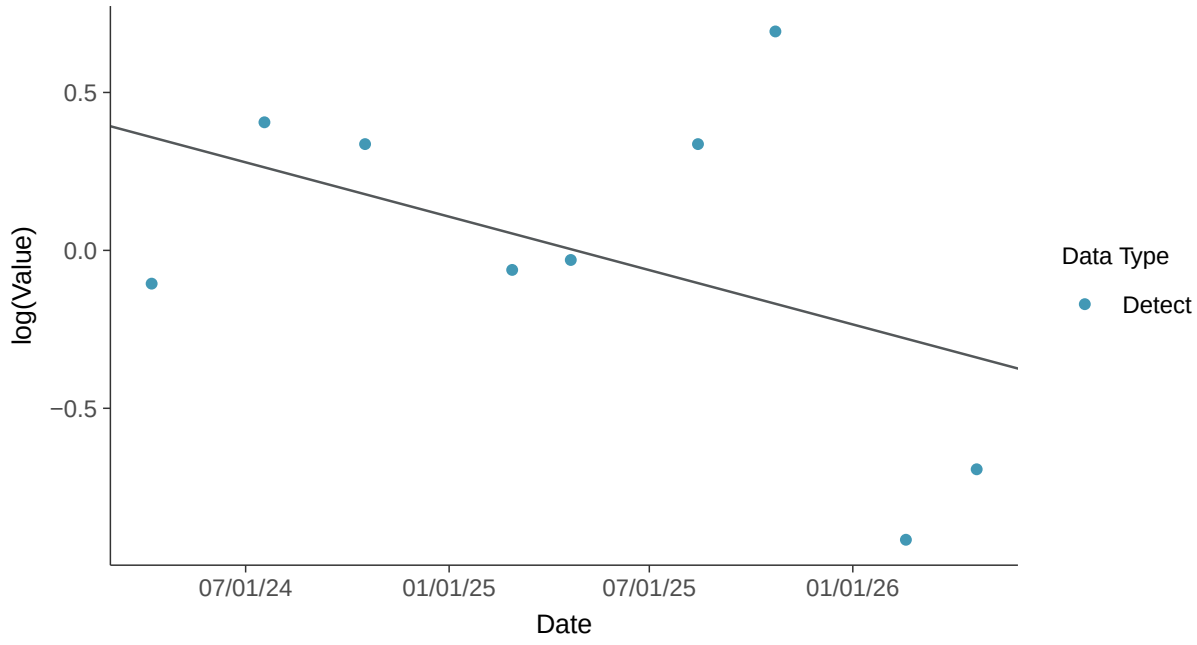
Gamma Q-Q plot

Fluoride (App IV), MW-28 (mg/L)



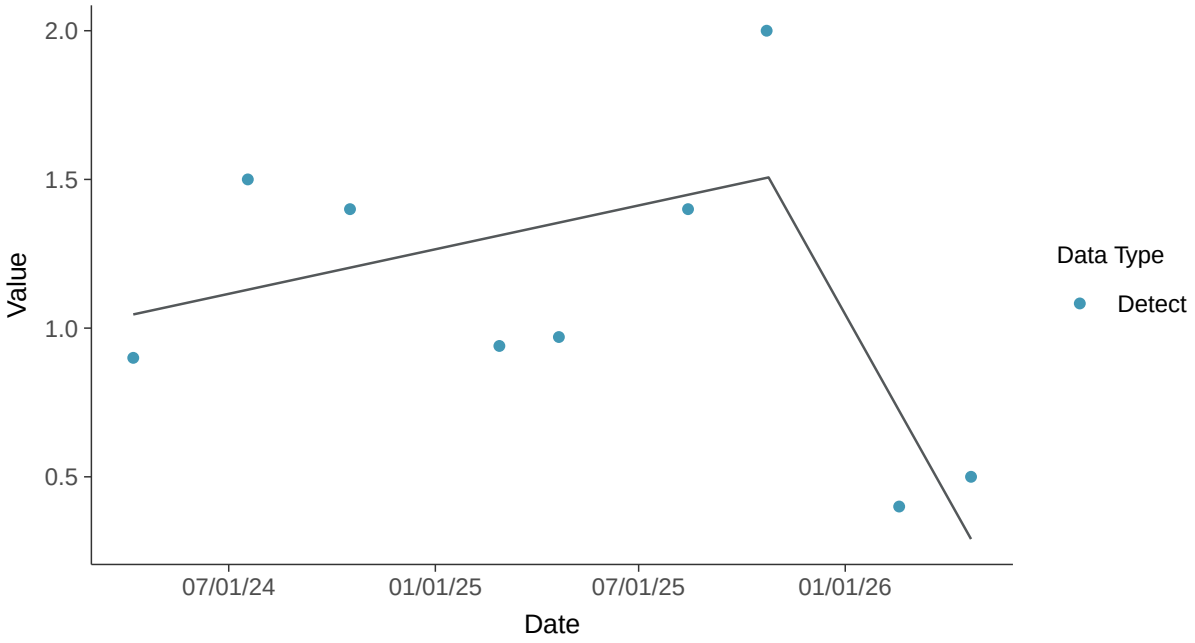
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-28 (mg/L)



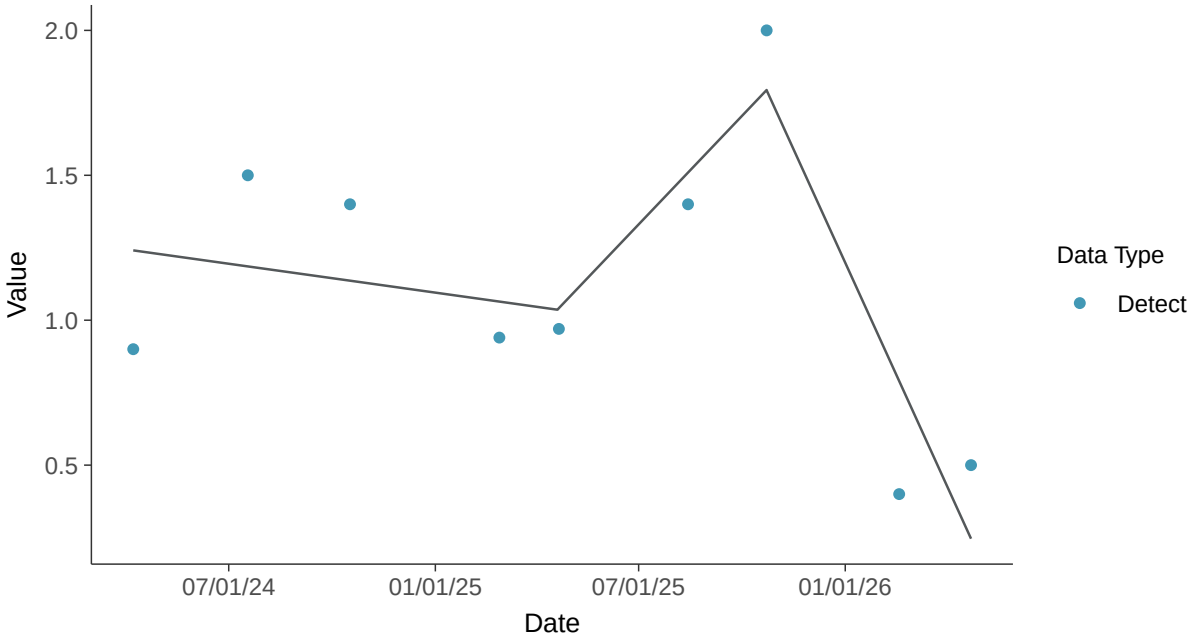
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-28 (mg/L)

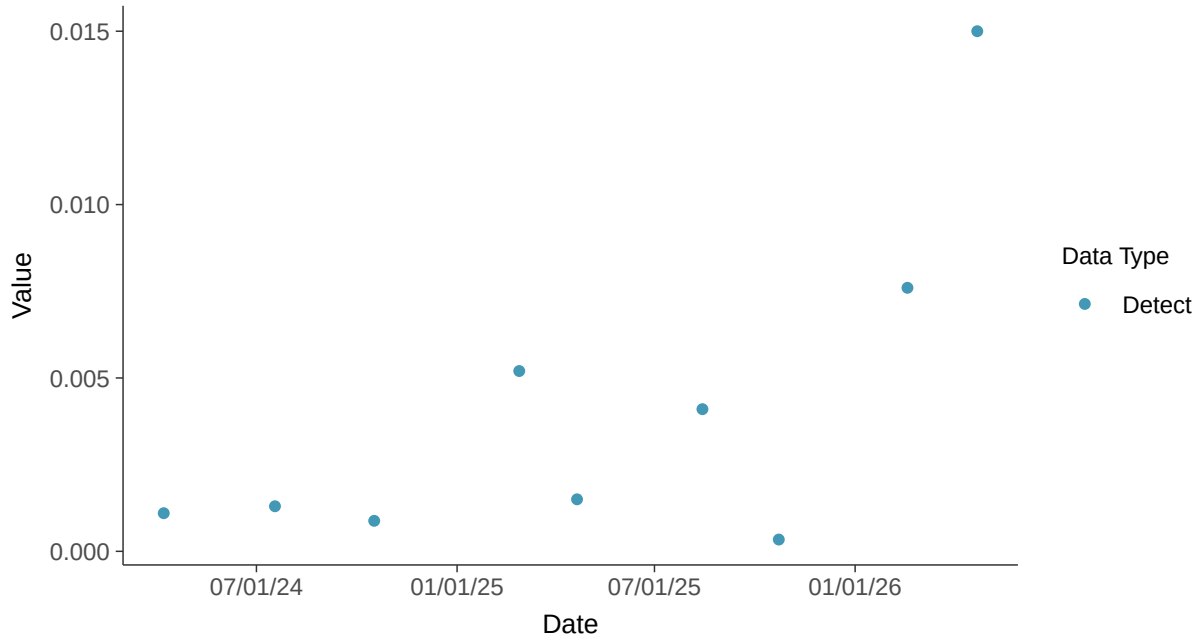


Appendix IV: Lead, MW-28

ID: 38_1_4_115

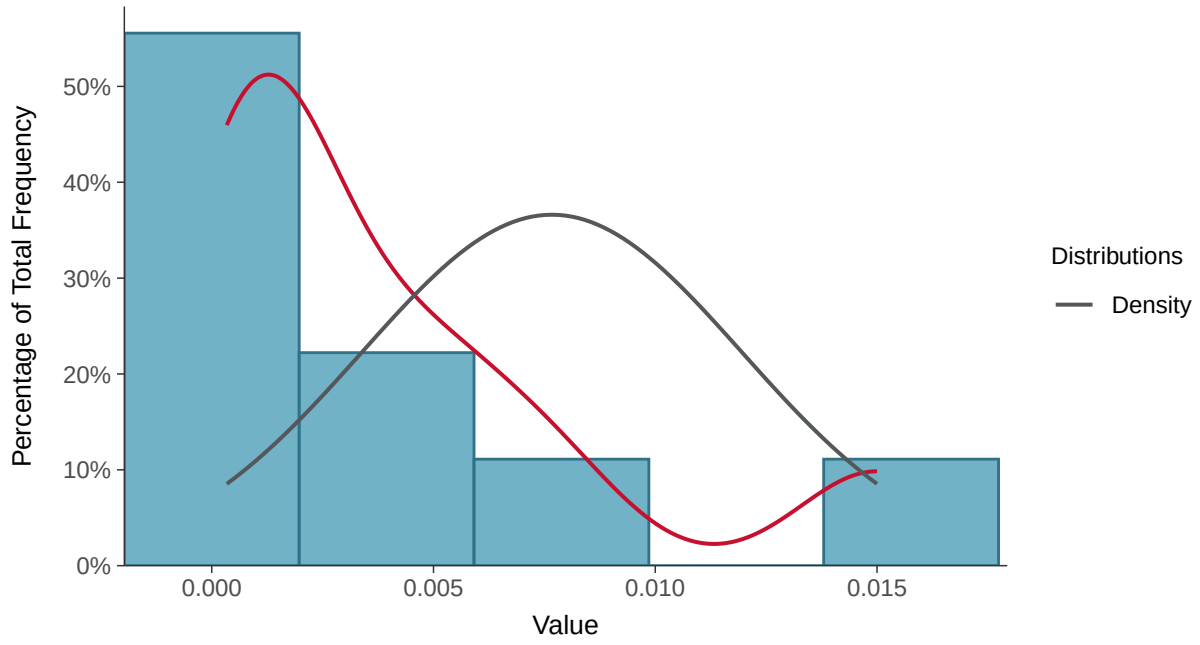
Scatter Plot

Lead, MW-28 (mg/L)



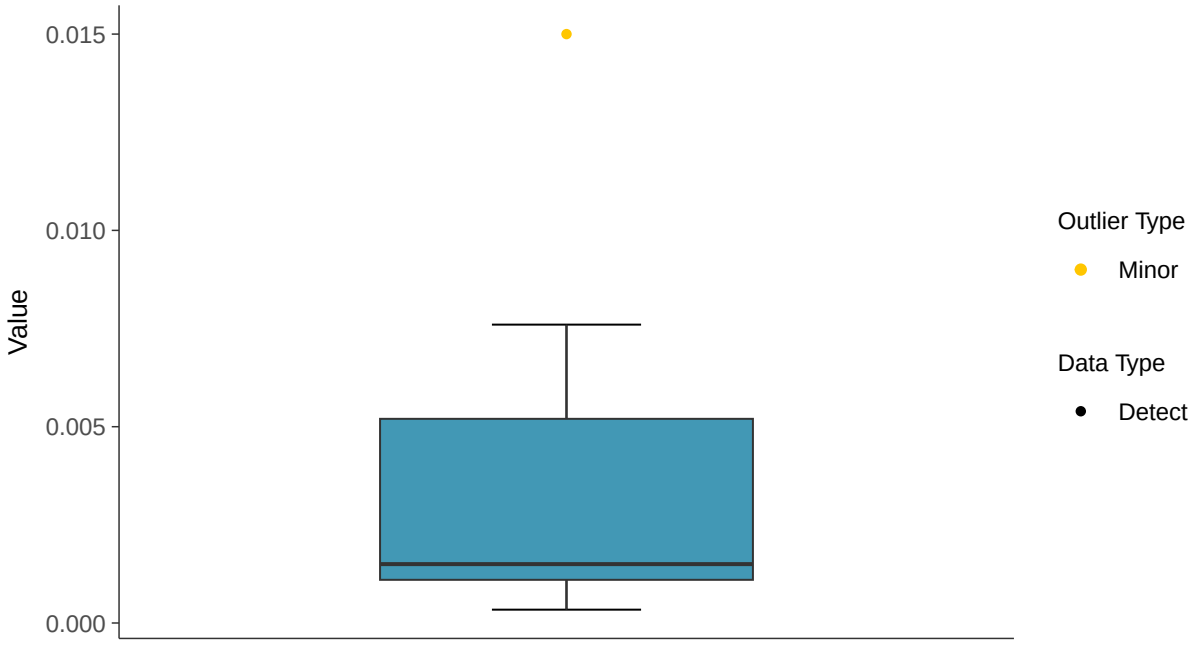
Histogram

Lead, MW-28 (mg/L)



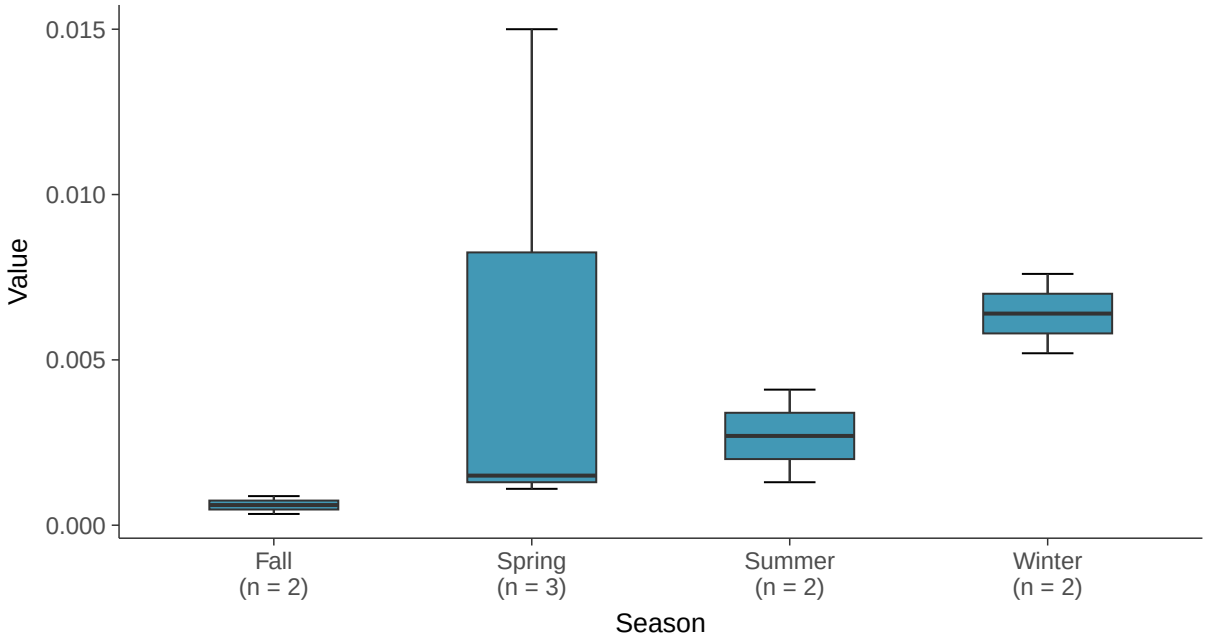
Boxplot

Lead, MW-28 (mg/L)



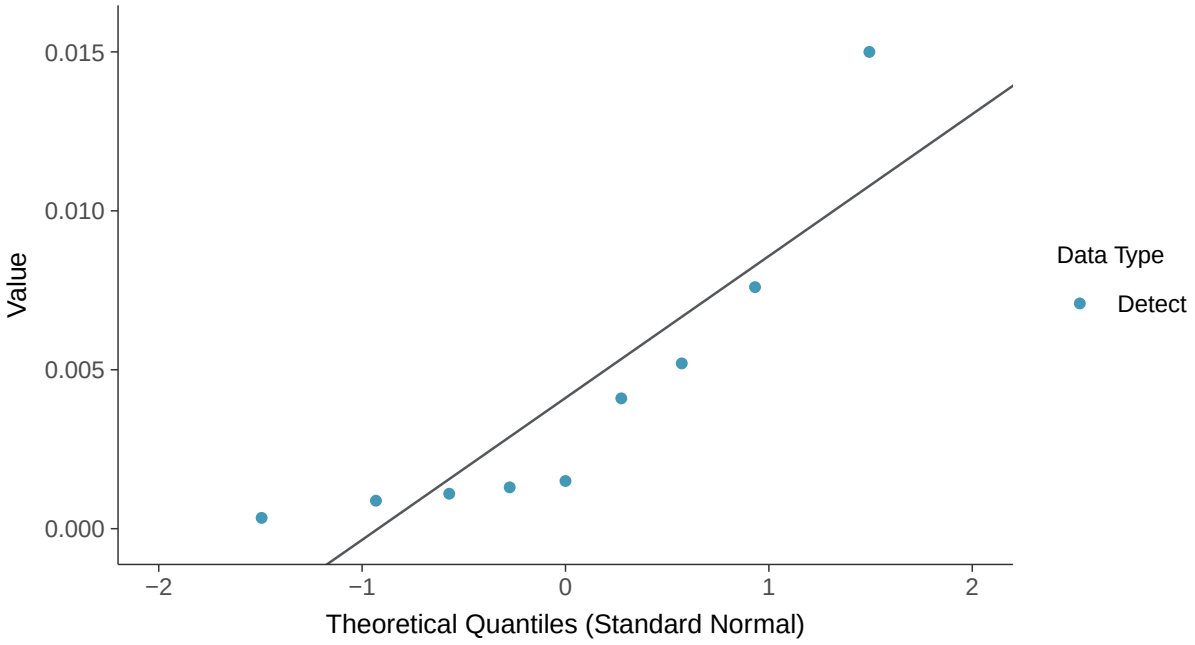
Boxplot by Season

Lead, MW-28 (mg/L)



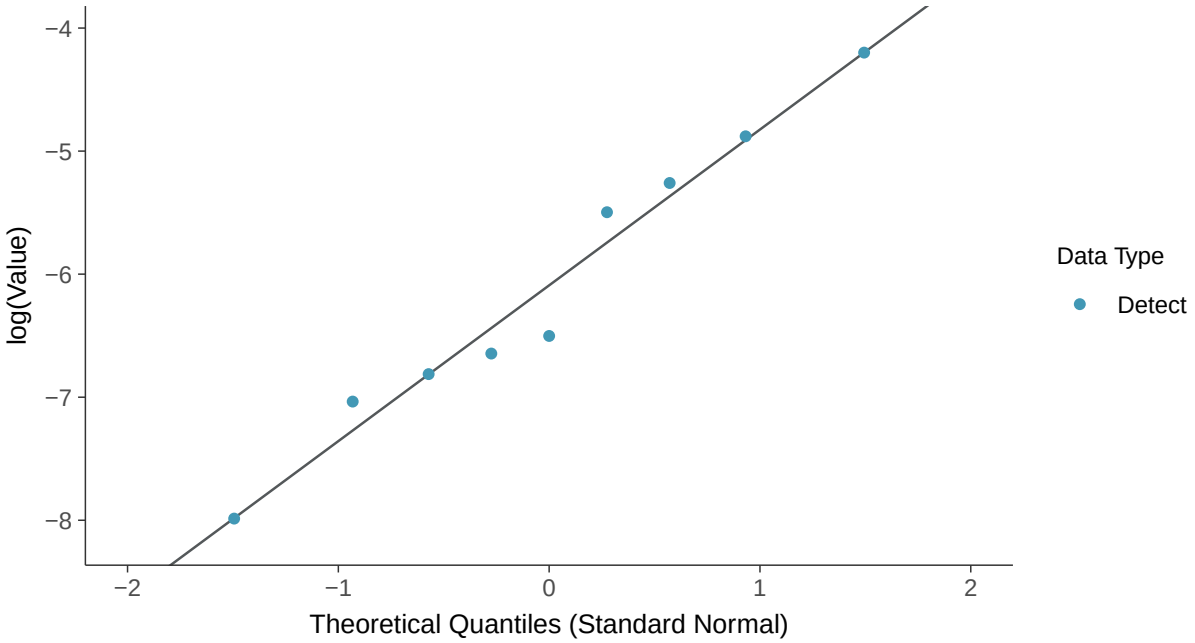
Normal Q-Q plot

Lead, MW-28 (mg/L)



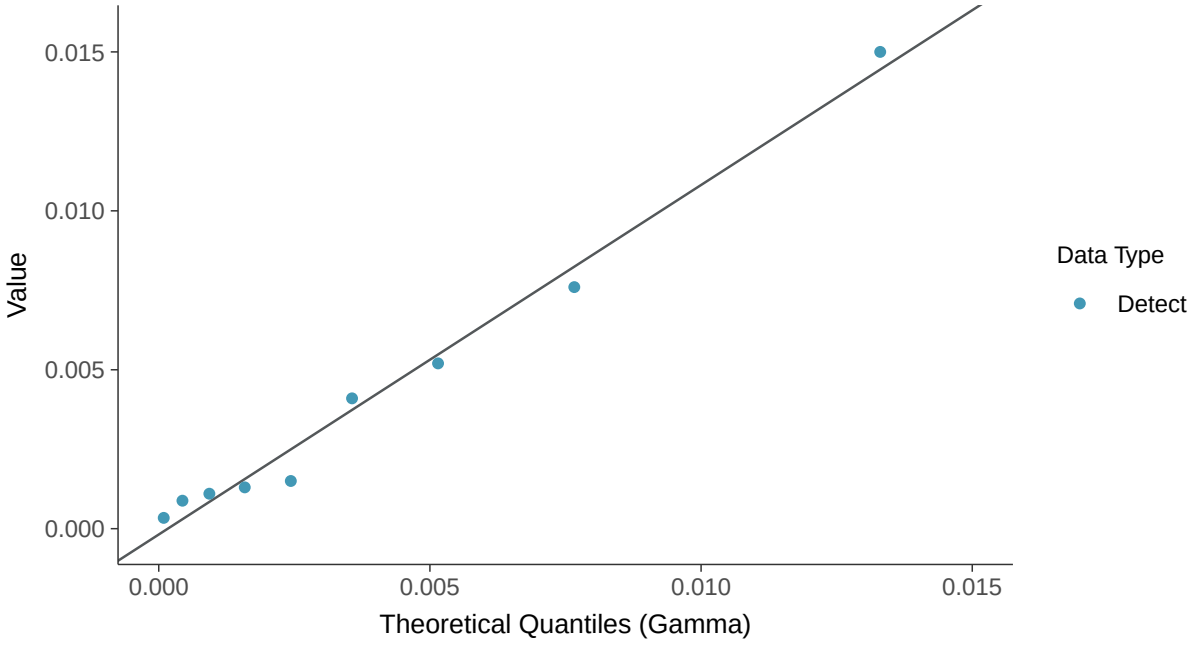
Lognormal Q-Q plot

Lead, MW-28 (mg/L)



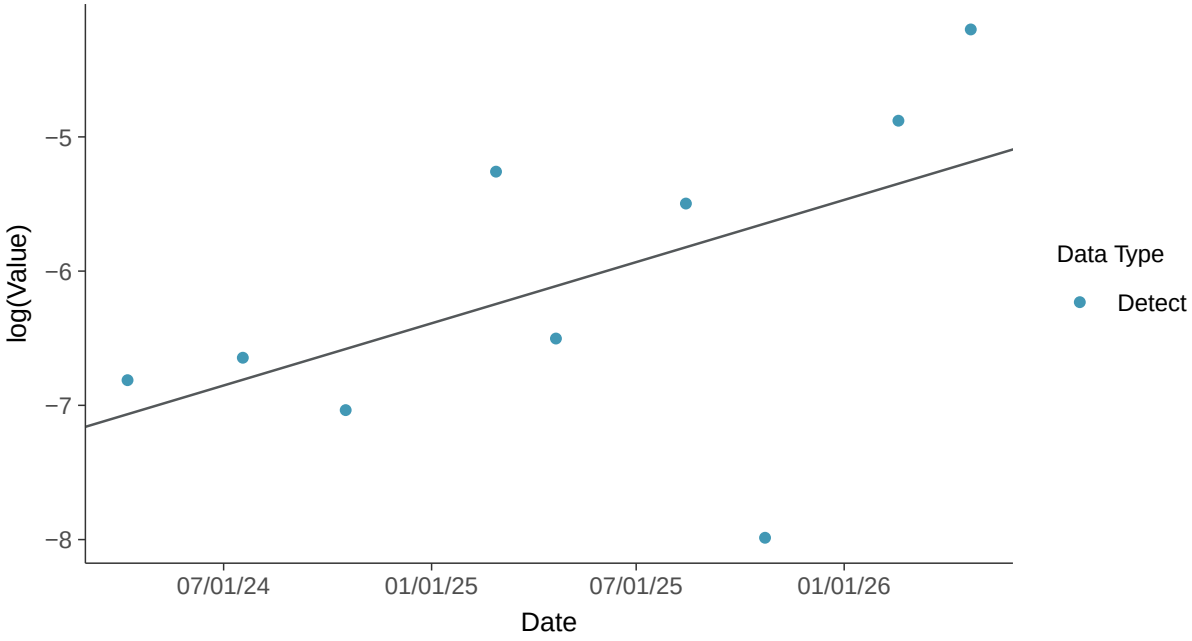
Gamma Q-Q plot

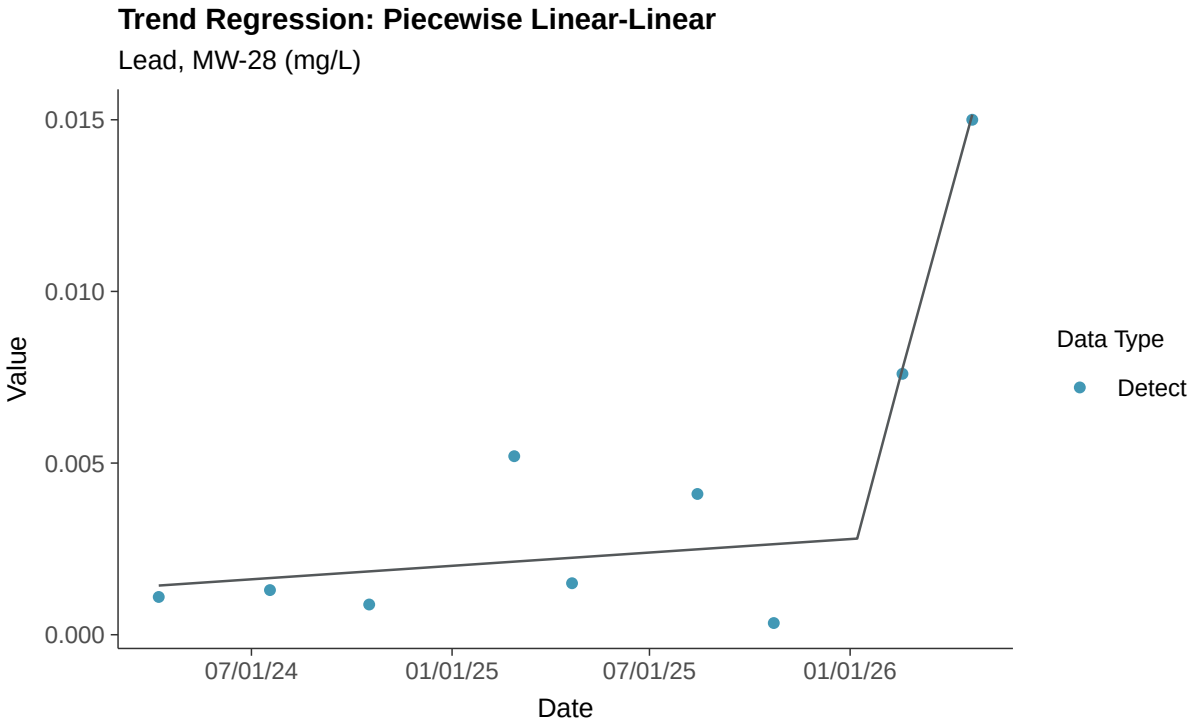
Lead, MW-28 (mg/L)



Trend Regression: Lognormal MLE

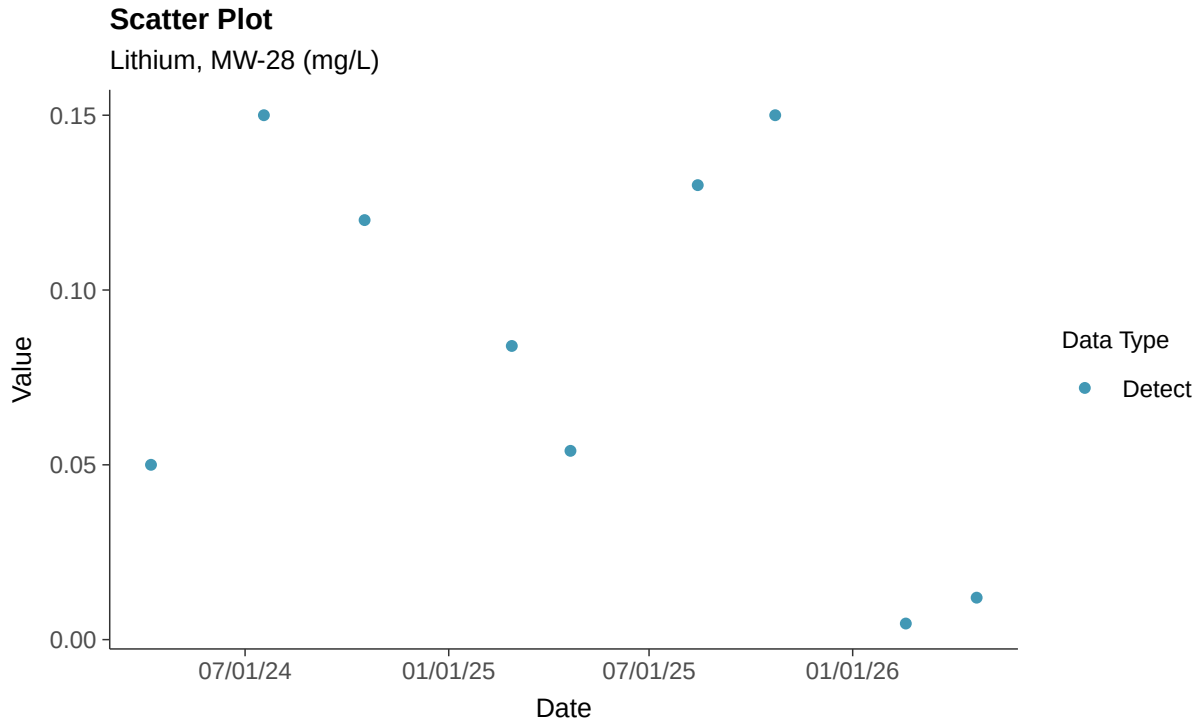
Lead, MW-28 (mg/L)

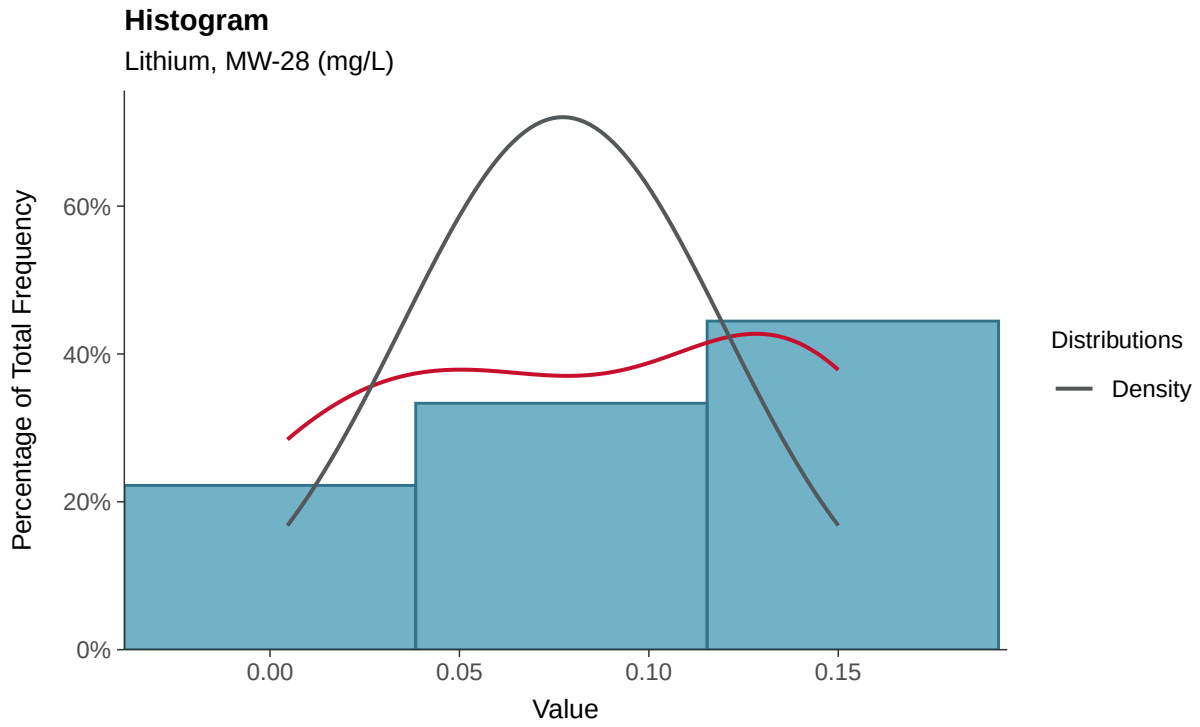



Trend Regression: Piecewise Linear-Linear
Lead, MW-28 (mg/L)
0.015
0.010
0.005
0.000
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Lithium, MW-28

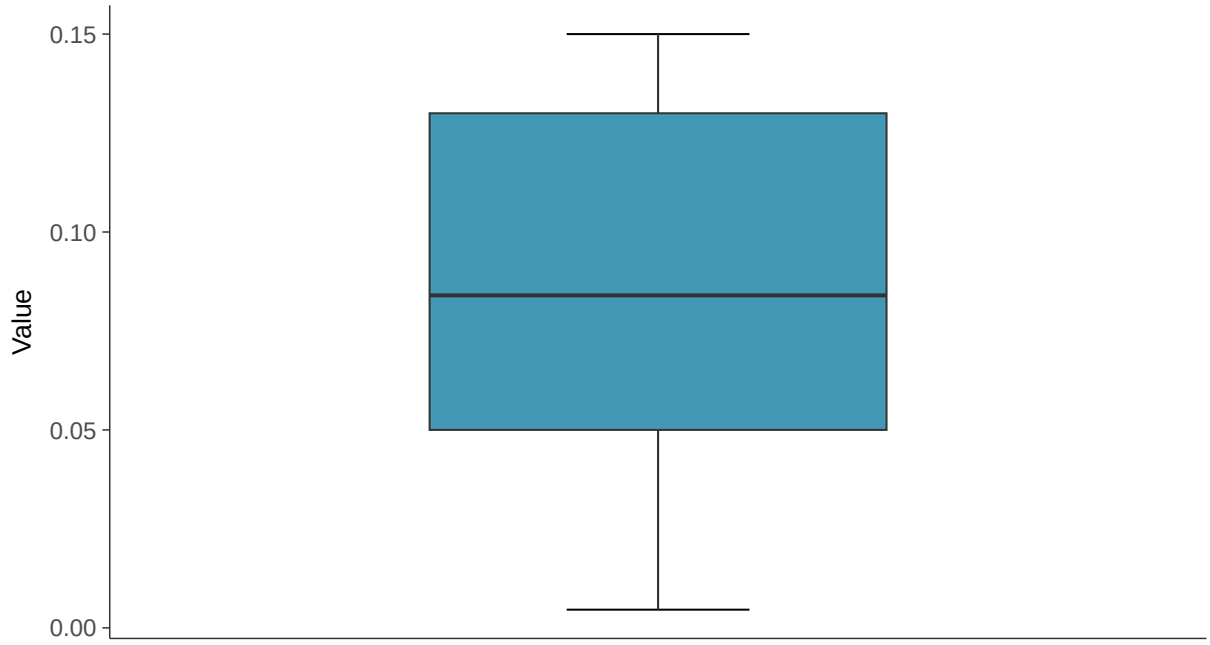
ID: 38_1_4_116





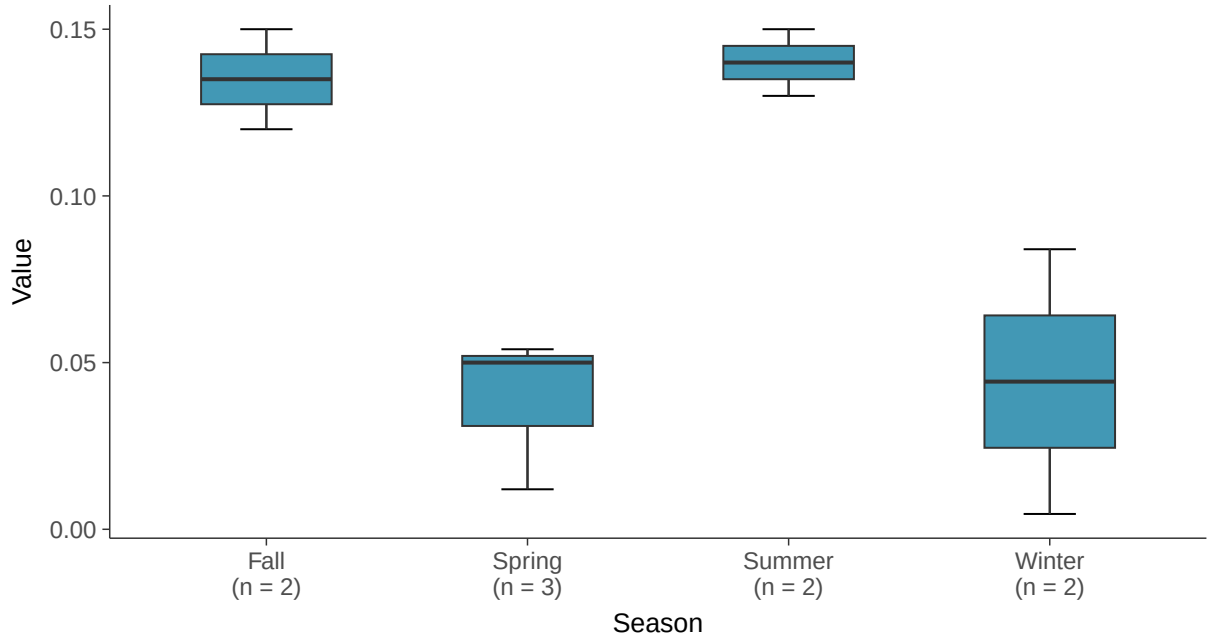
Boxplot

Lithium, MW-28 (mg/L)



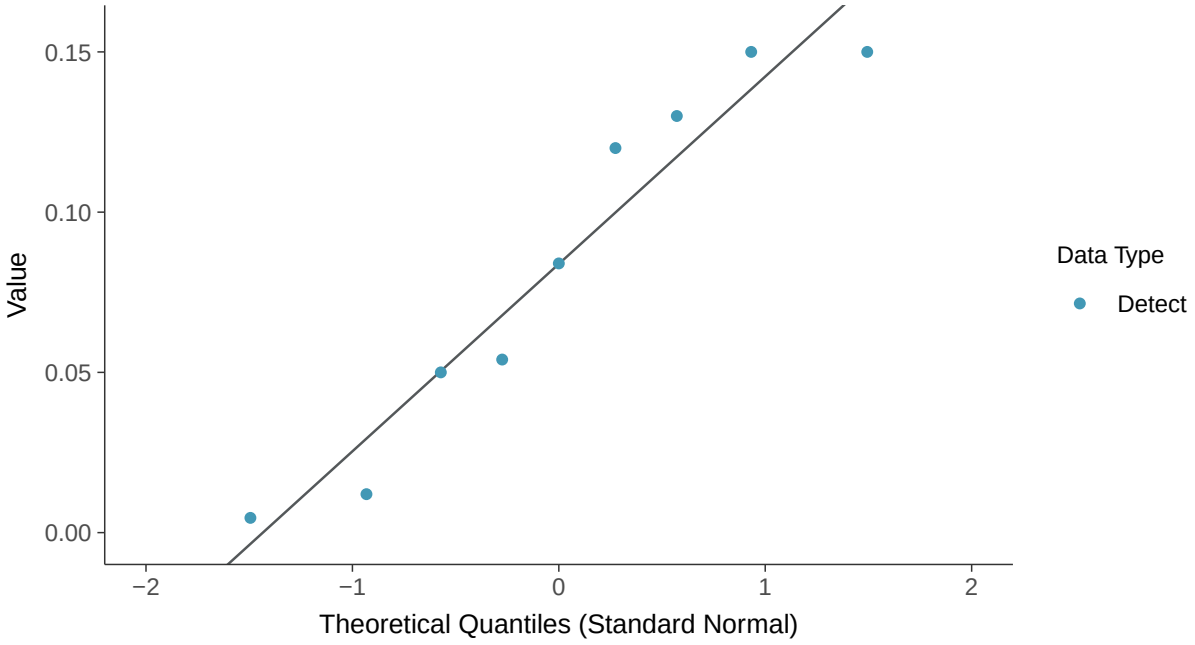
Boxplot by Season

Lithium, MW-28 (mg/L)



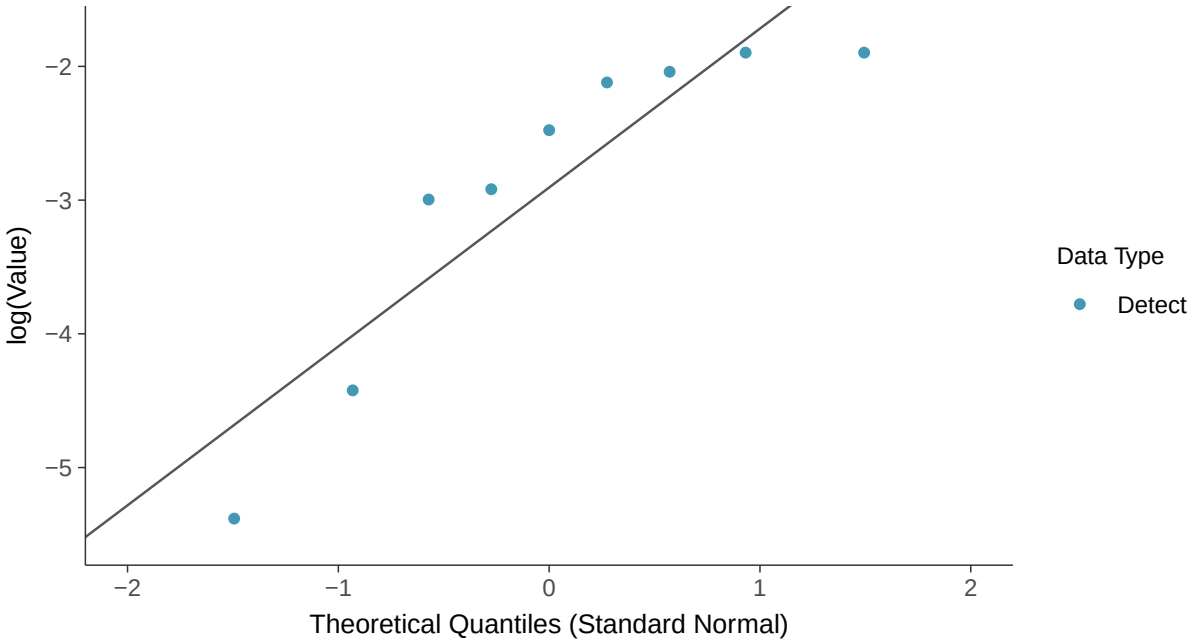
Normal Q-Q plot

Lithium, MW-28 (mg/L)



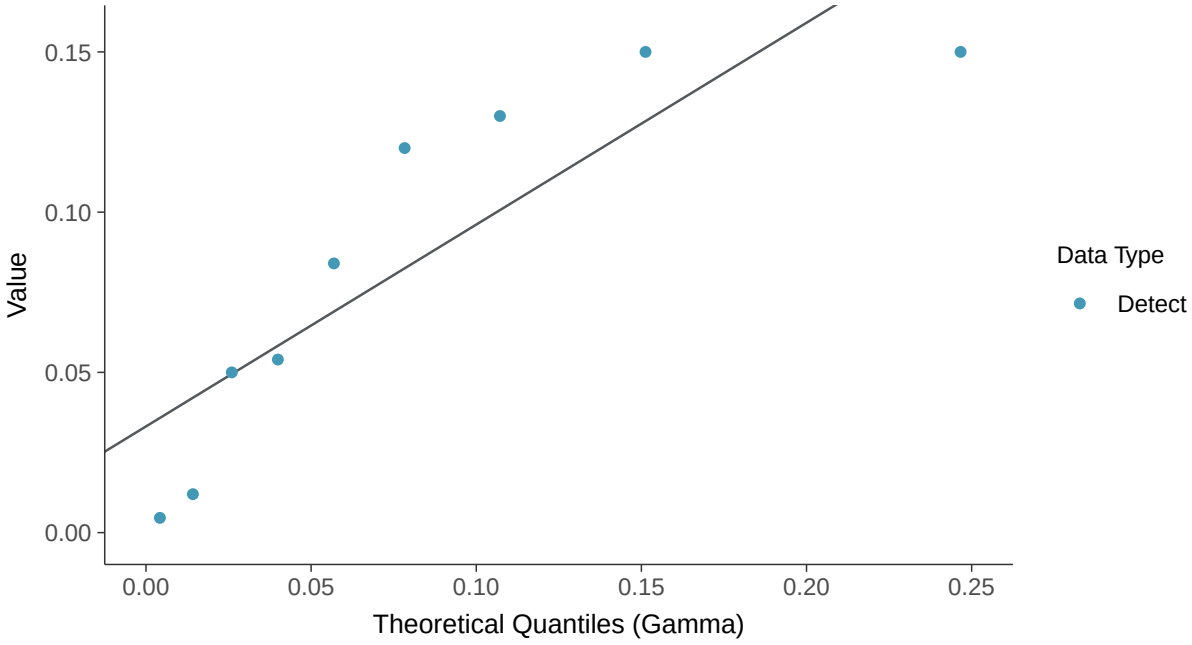
Lognormal Q-Q plot

Lithium, MW-28 (mg/L)



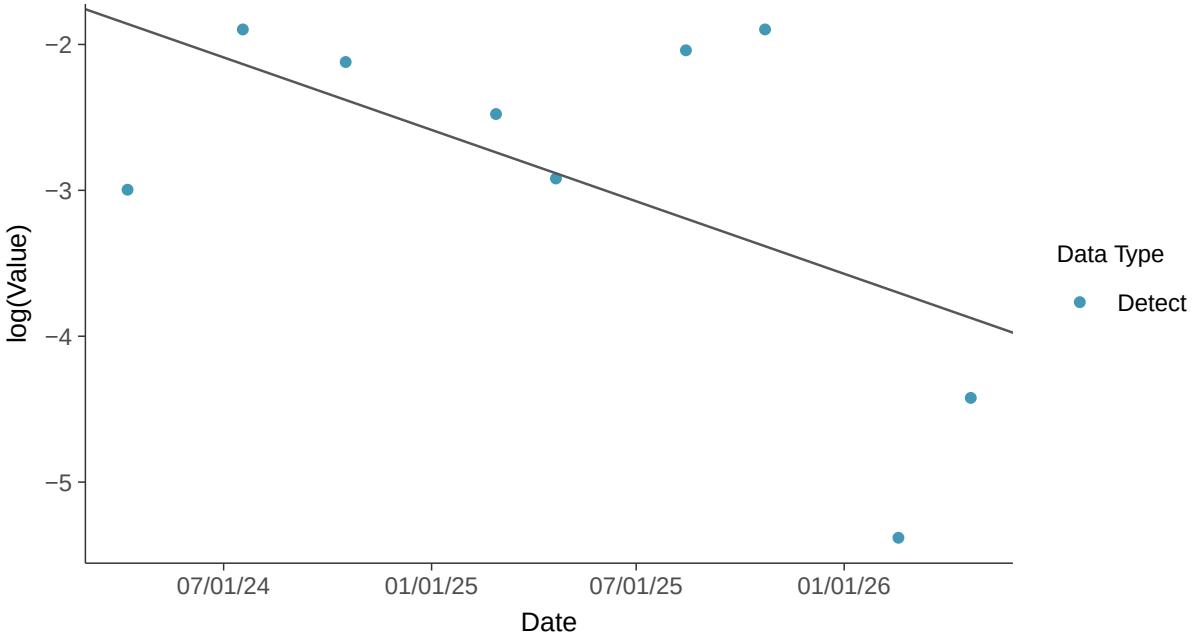
Gamma Q-Q plot

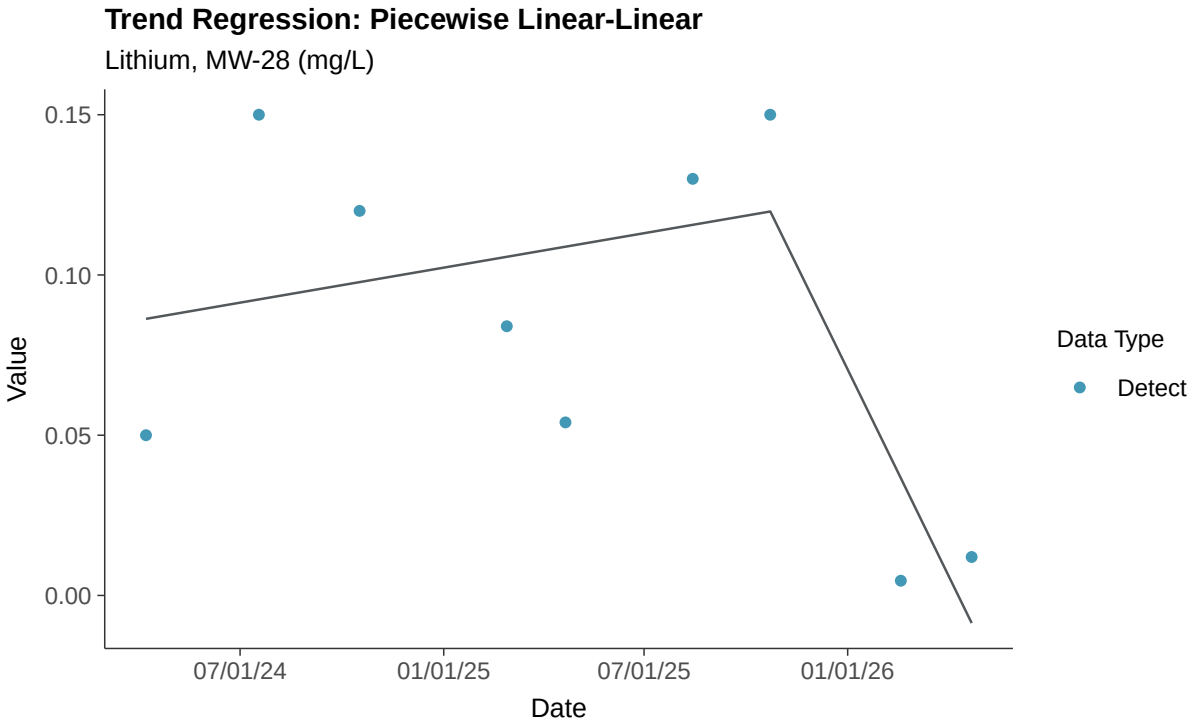
Lithium, MW-28 (mg/L)



Trend Regression: Lognormal MLE

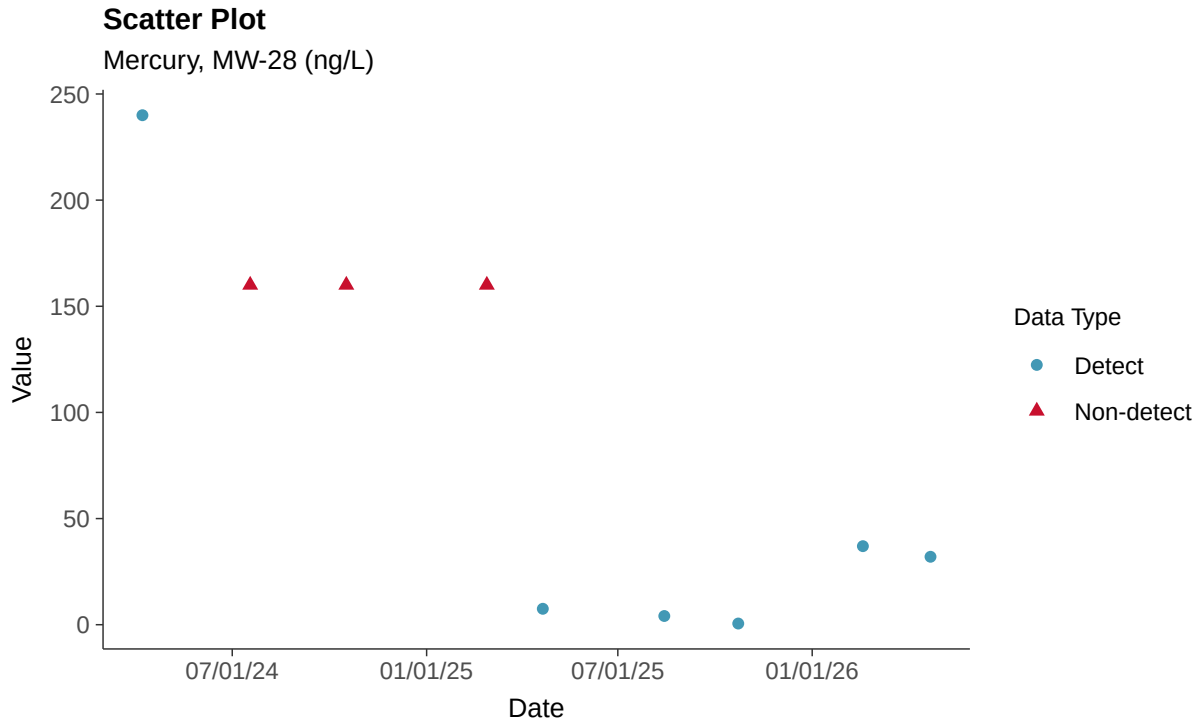
Lithium, MW-28 (mg/L)

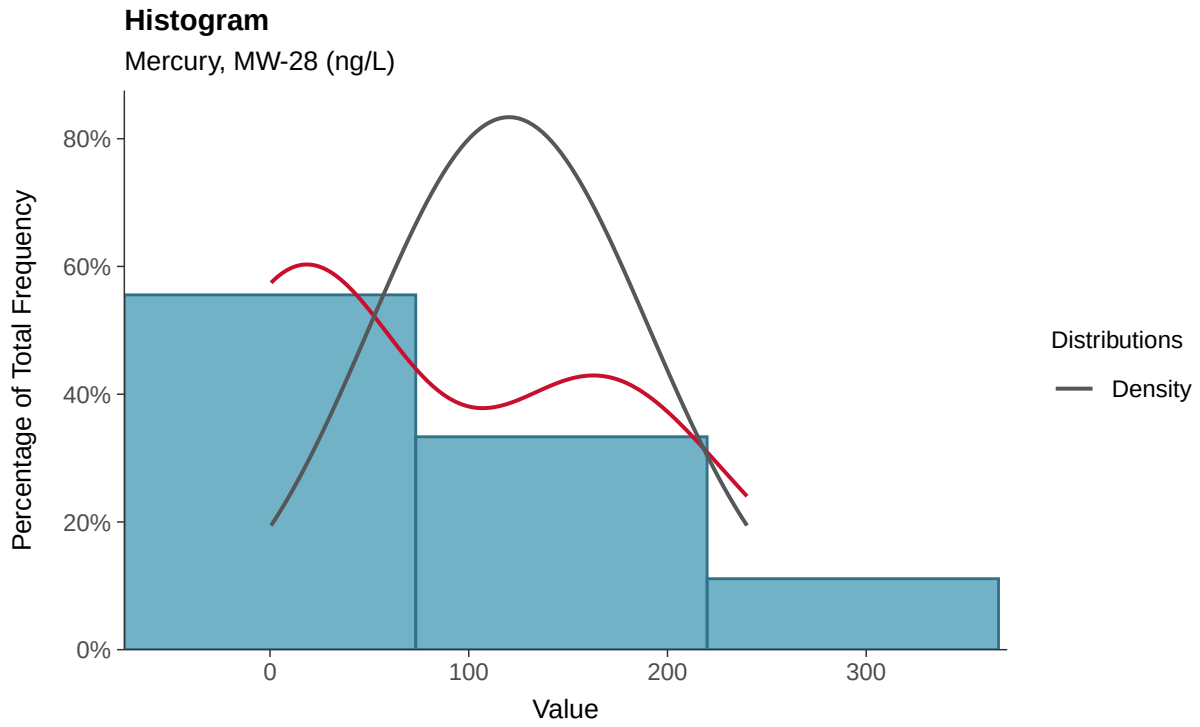



Trend Regression: Piecewise Linear-Linear
Lithium, MW-28 (mg/L)
0.15
0.10
0.05
0.00
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Mercury, MW-28

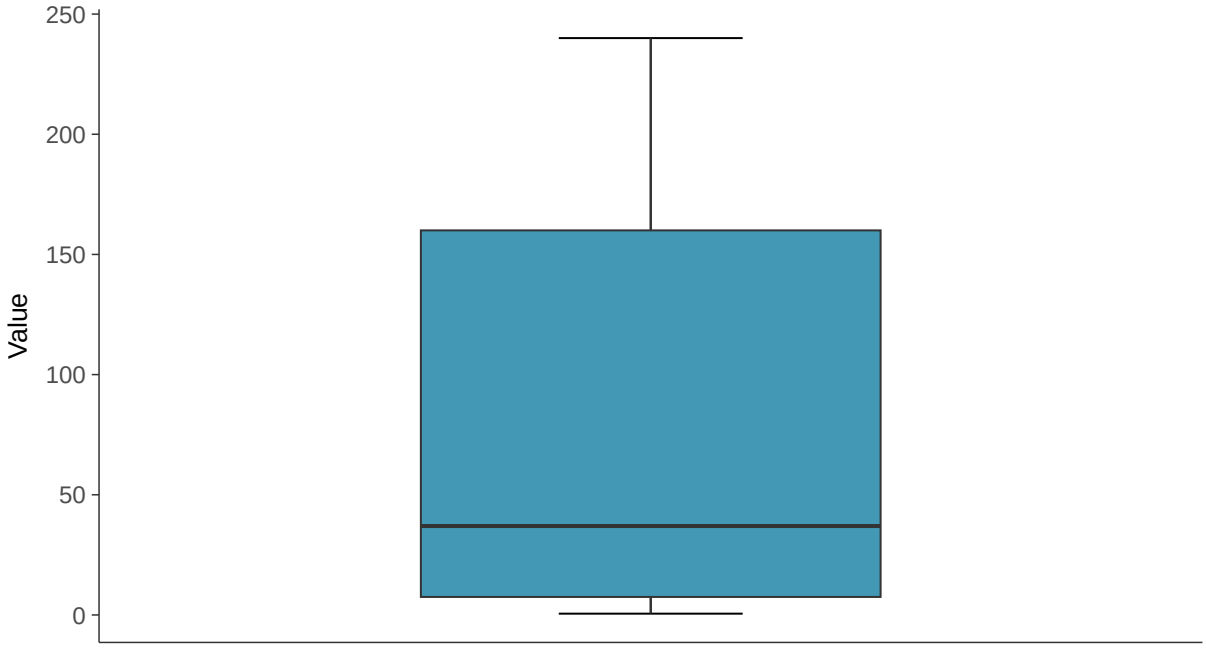
ID: 38_1_4_117





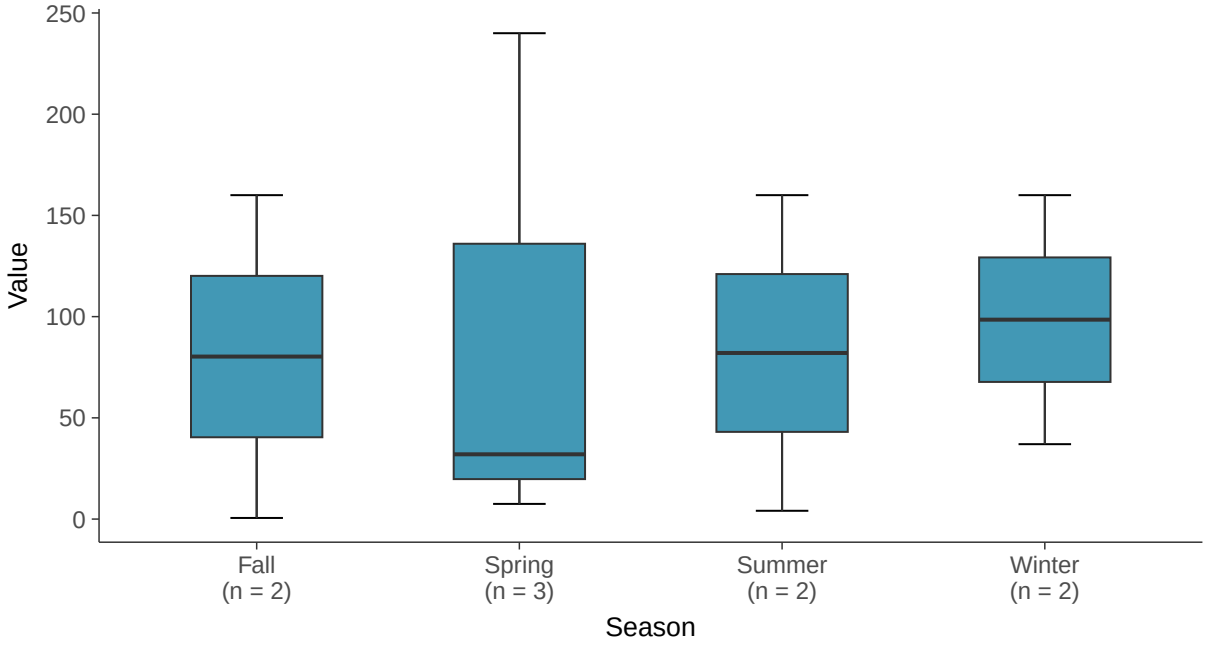
Boxplot

Mercury, MW-28 (ng/L)



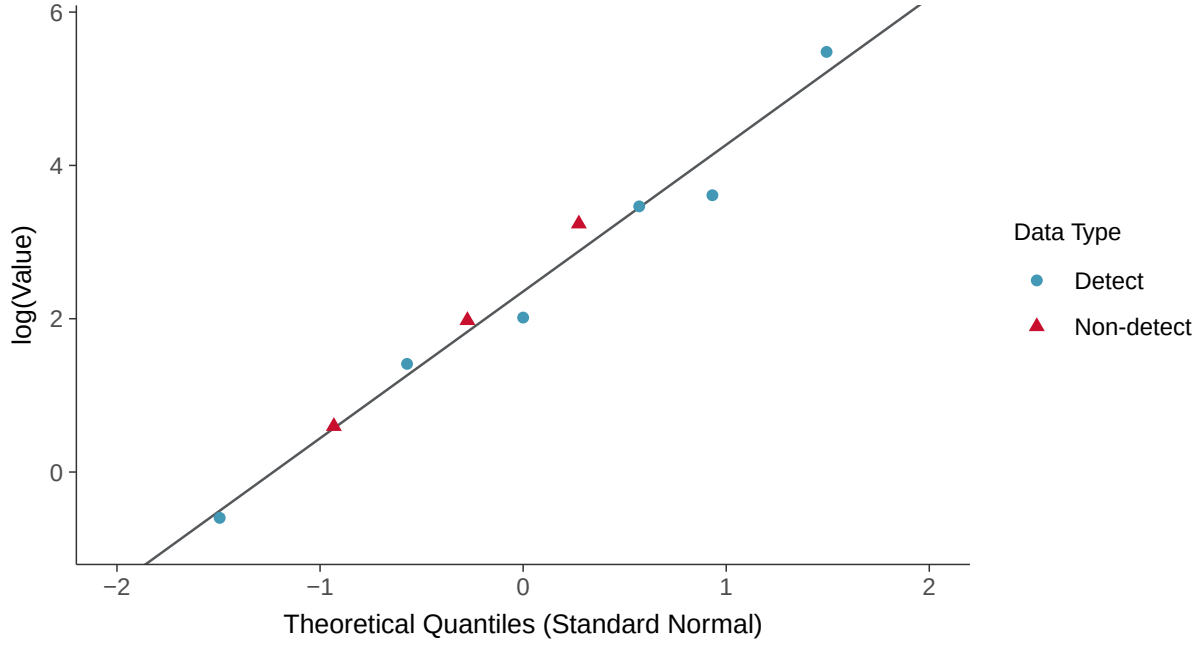
Boxplot by Season

Mercury, MW-28 (ng/L)



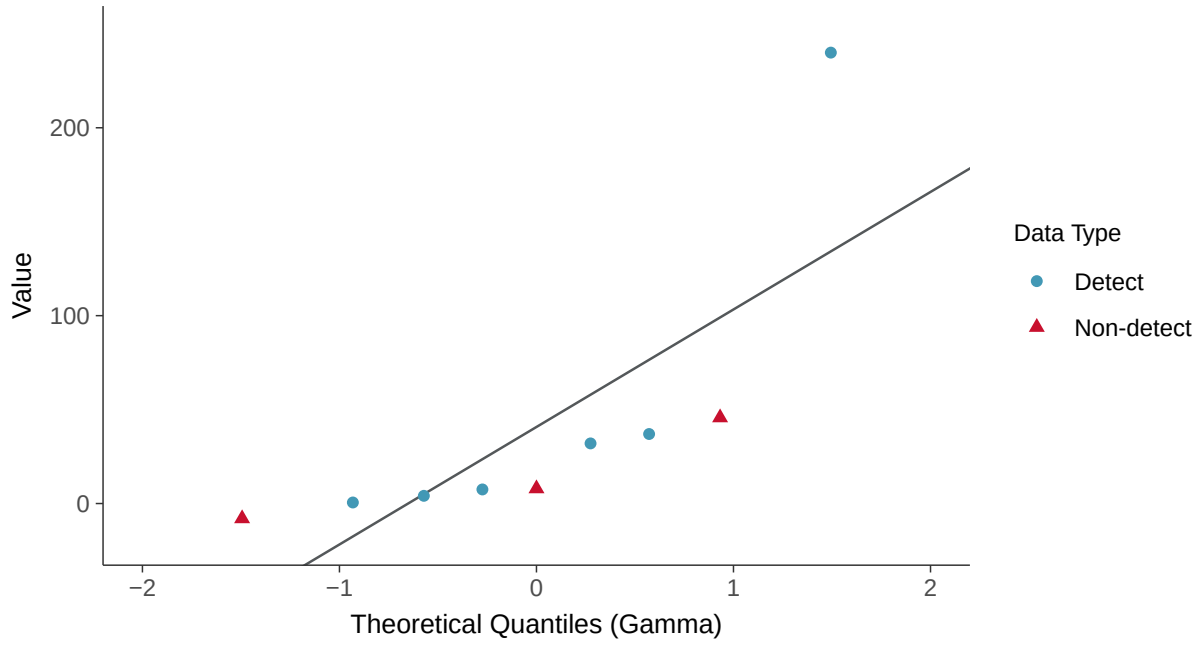
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-28 (ng/L)



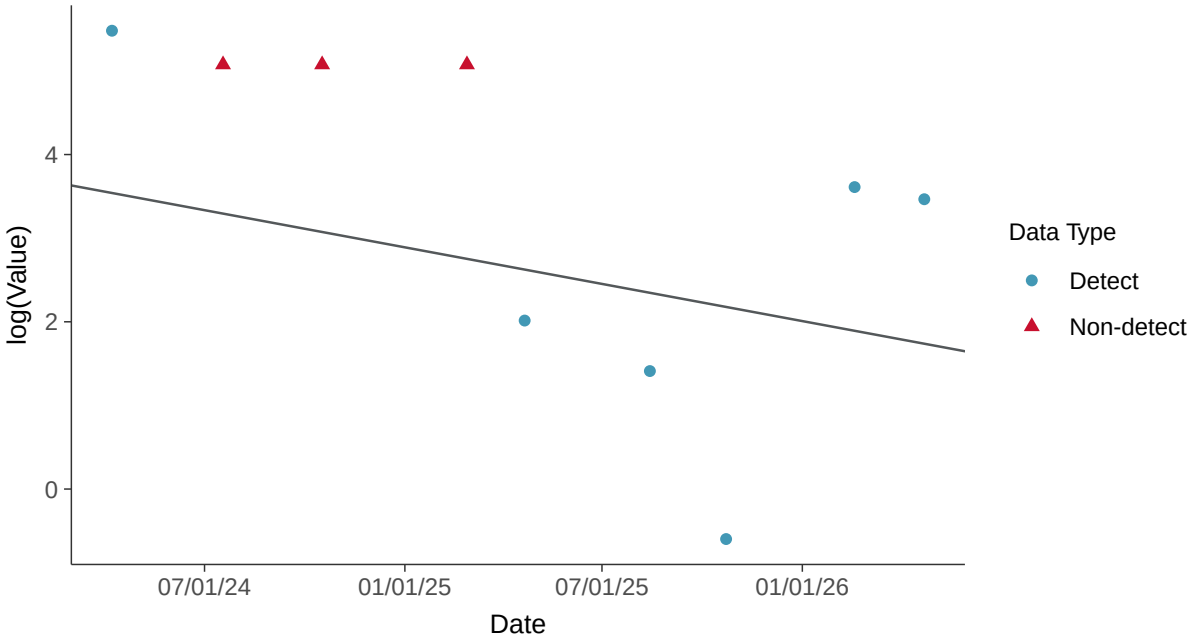
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-28 (ng/L)



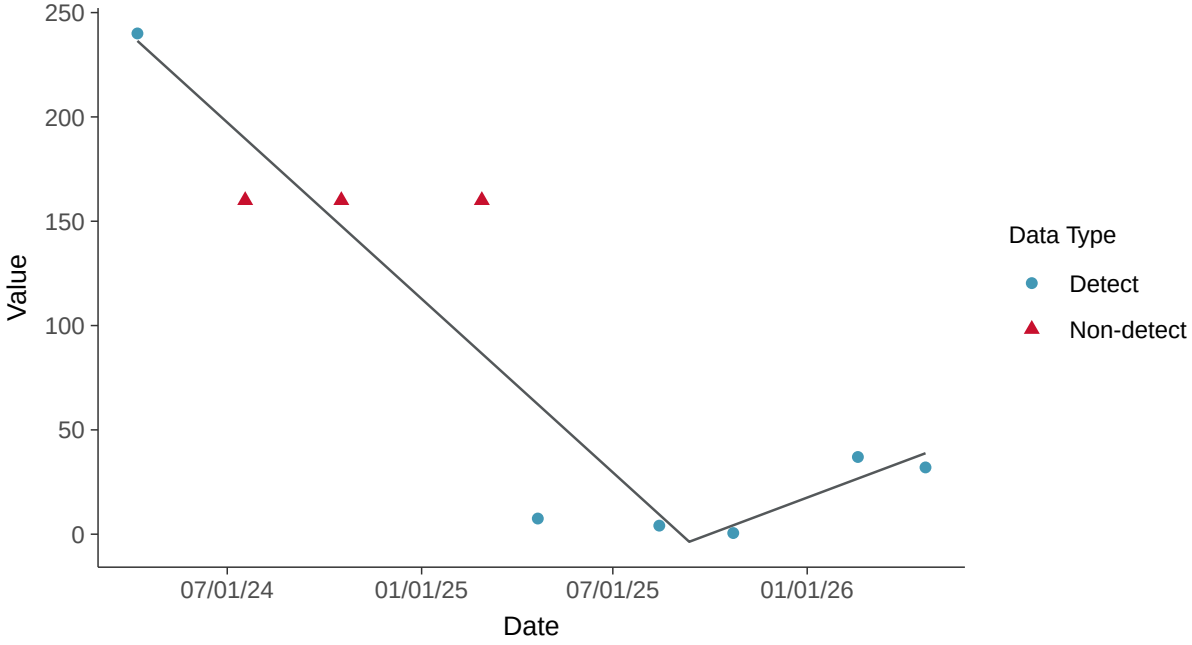
Trend Regression: Lognormal MLE

Mercury, MW-28 (ng/L)



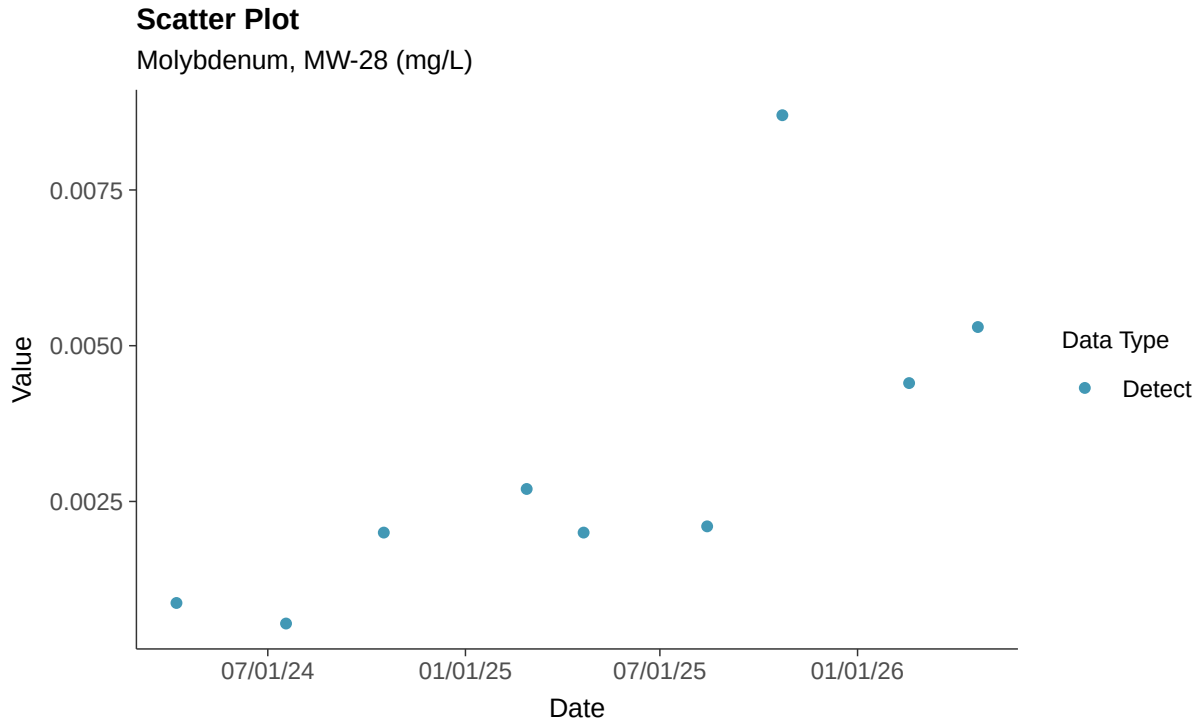
Trend Regression: Piecewise Linear-Linear

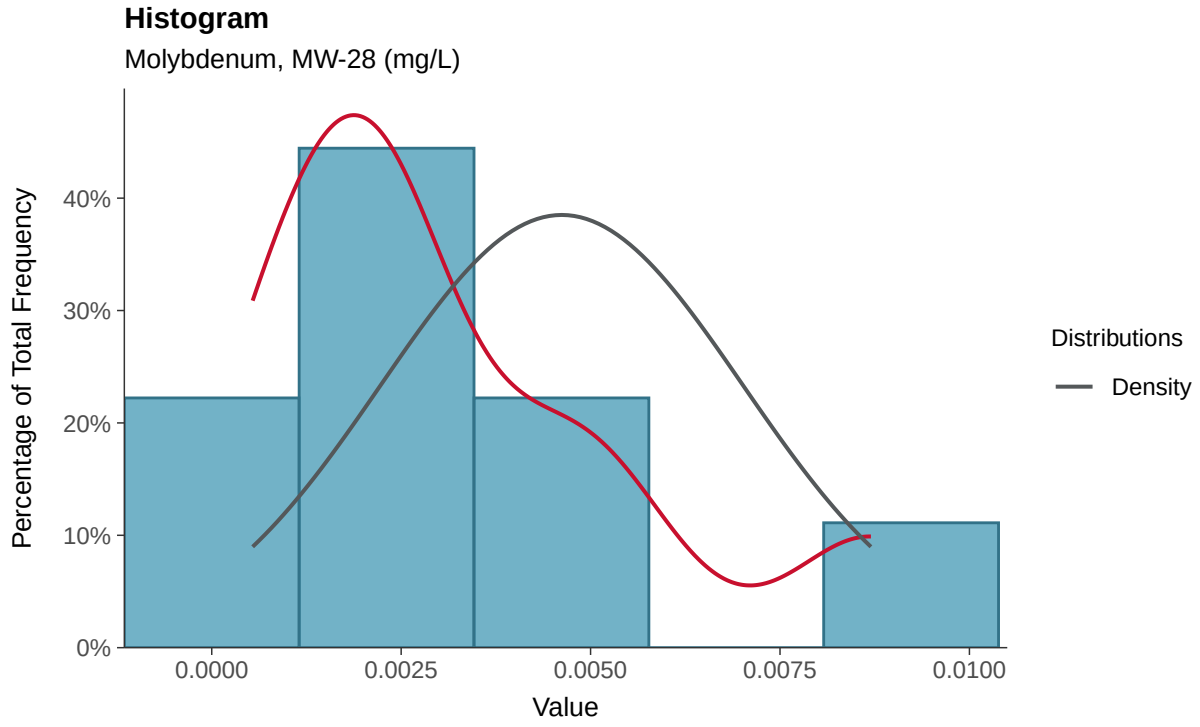
Mercury, MW-28 (ng/L)



Appendix IV: Molybdenum, MW-28

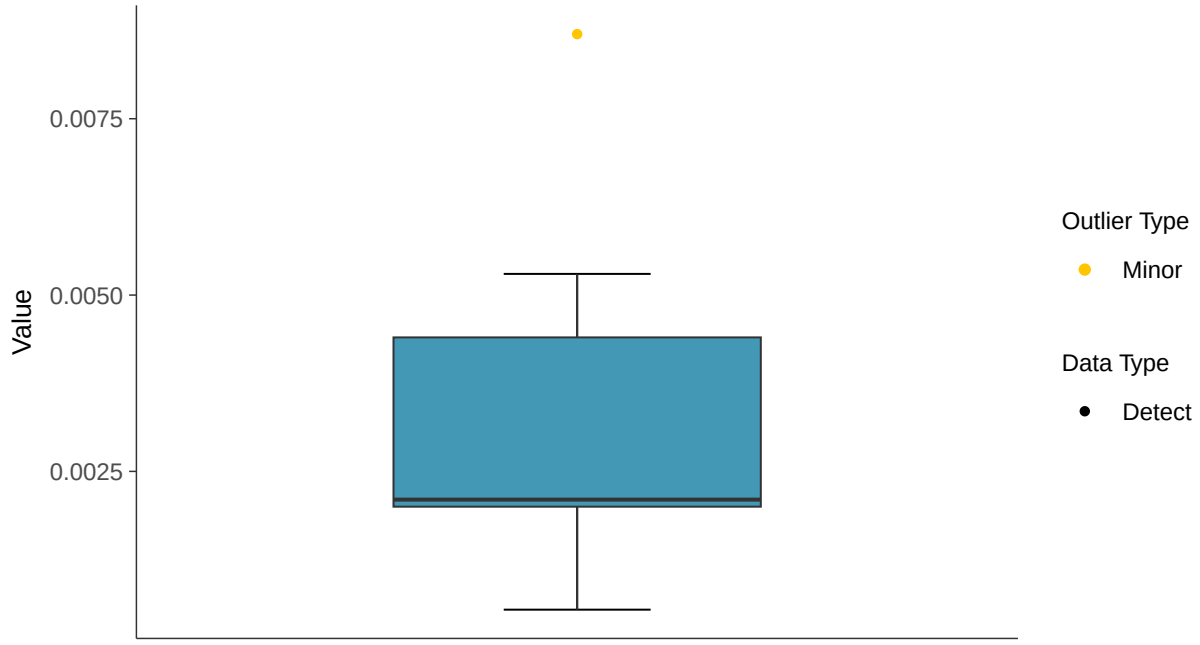
ID: 38_1_4_118





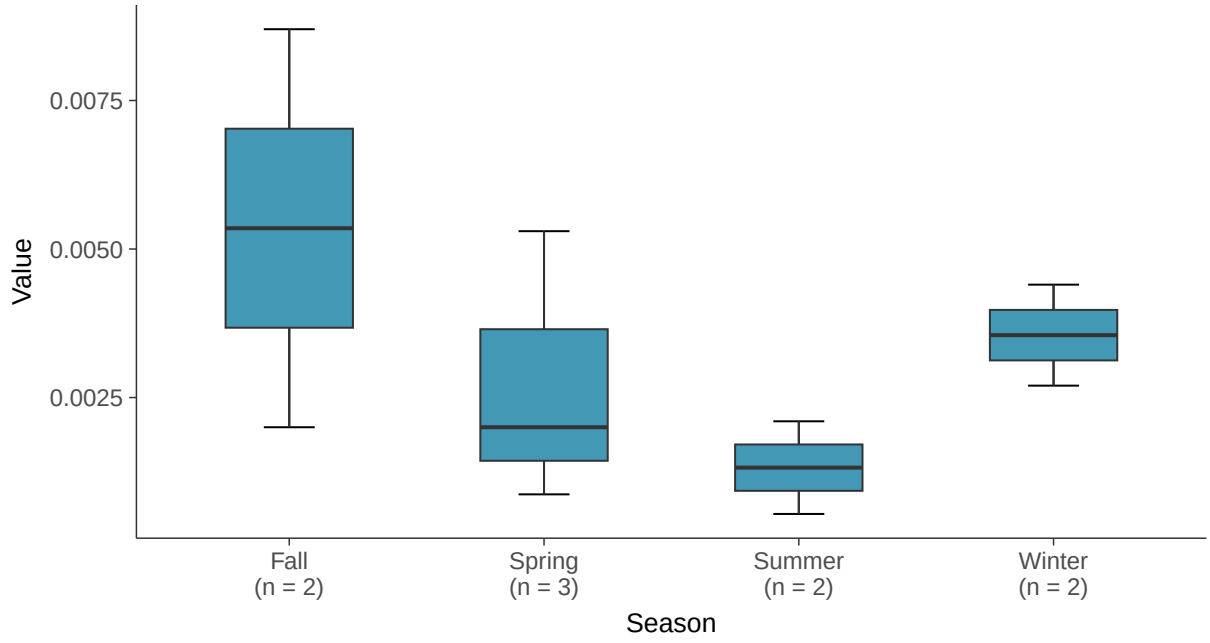
Boxplot

Molybdenum, MW-28 (mg/L)



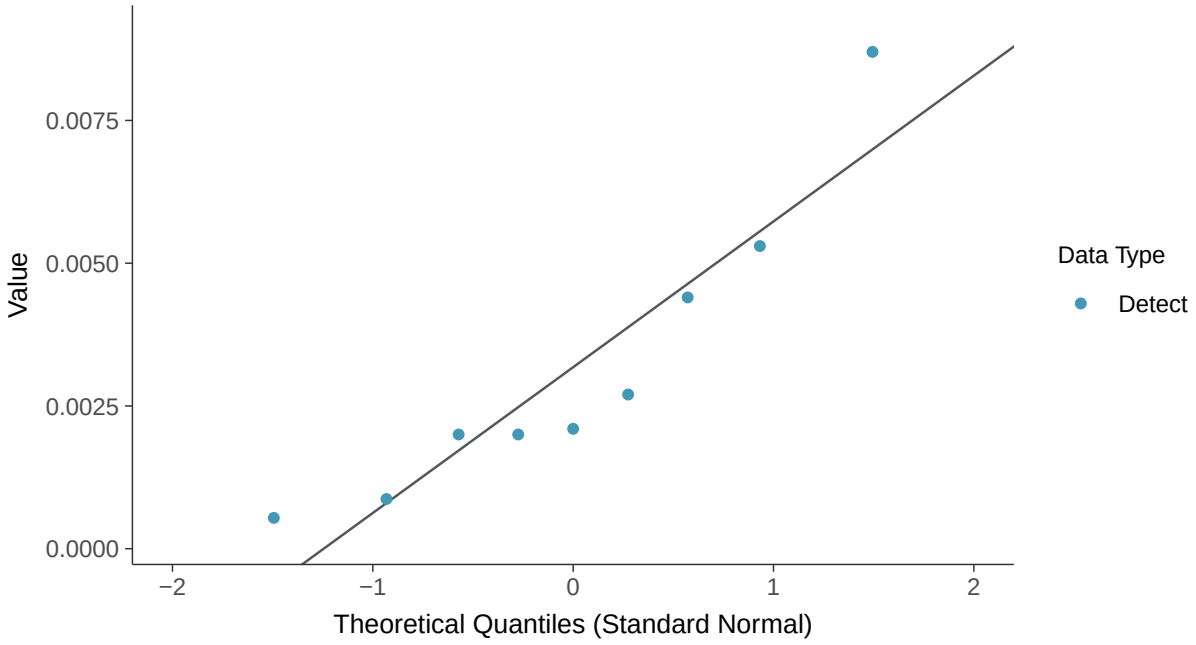
Boxplot by Season

Molybdenum, MW-28 (mg/L)



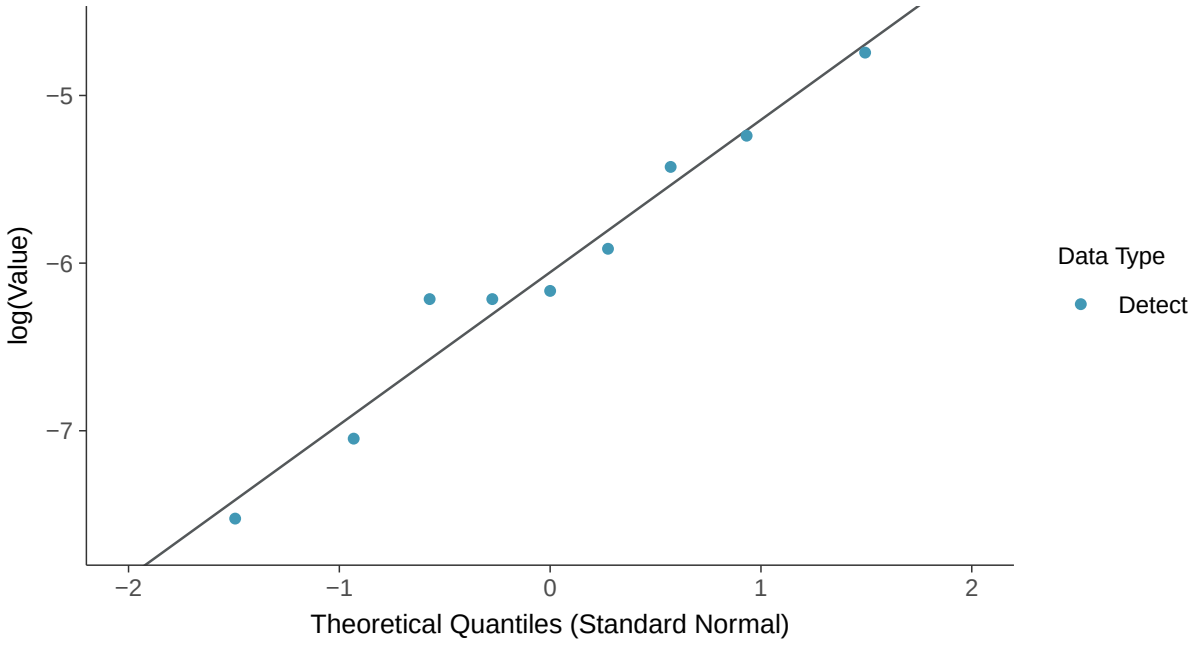
Normal Q-Q plot

Molybdenum, MW-28 (mg/L)



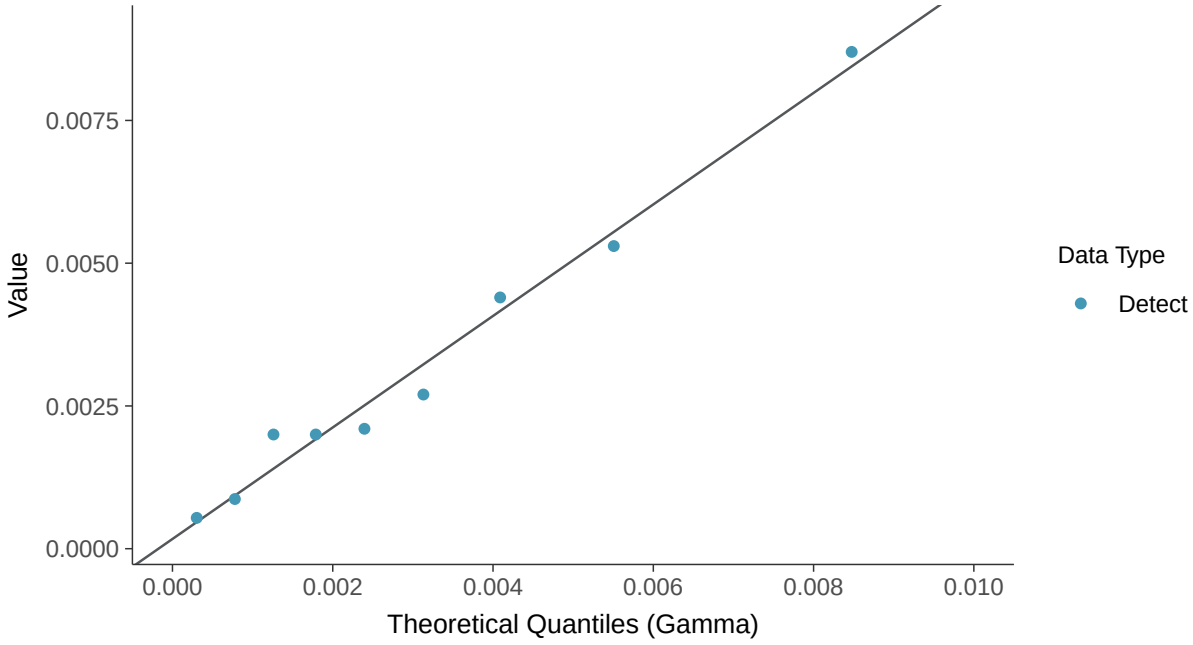
Lognormal Q-Q plot

Molybdenum, MW-28 (mg/L)



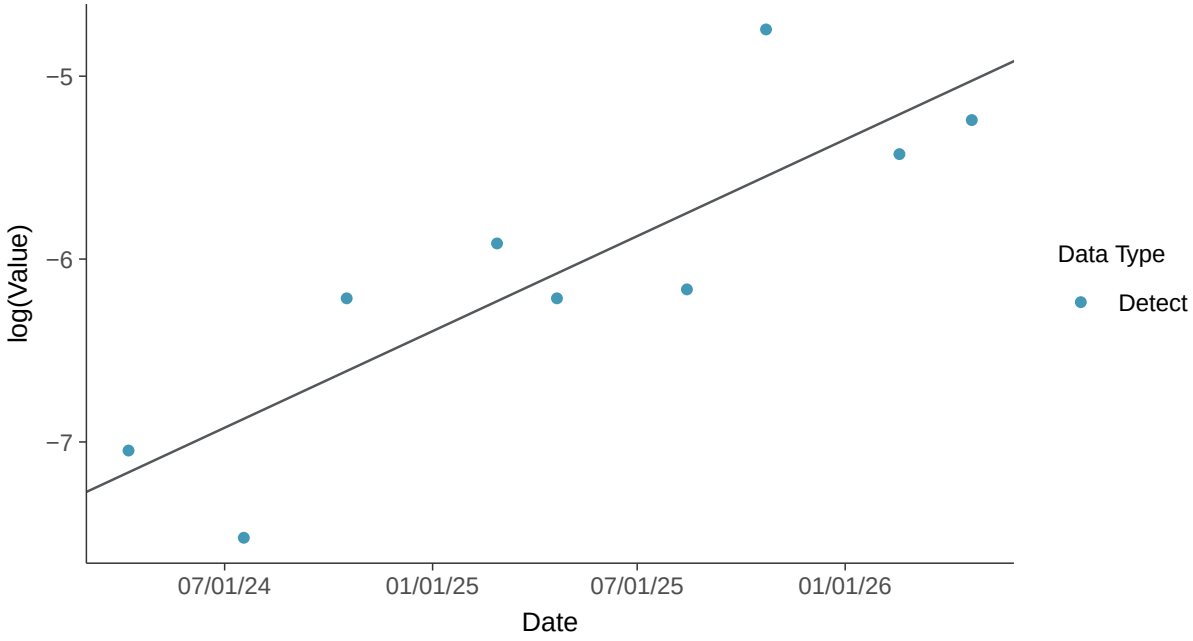
Gamma Q-Q plot

Molybdenum, MW-28 (mg/L)



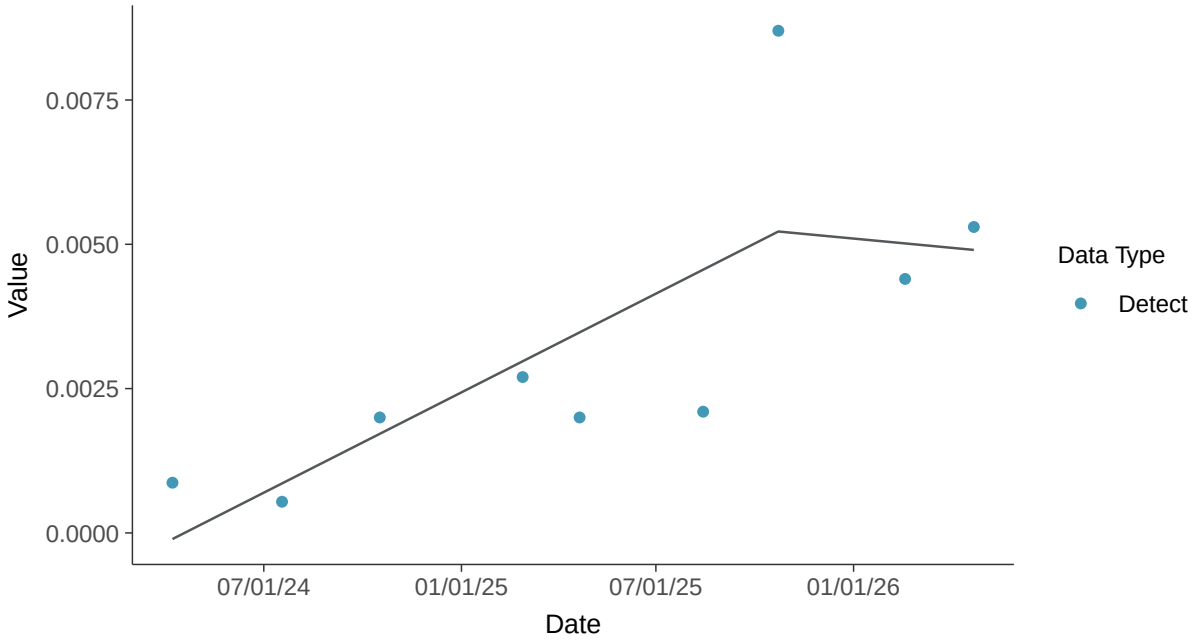
Trend Regression: Lognormal MLE

Molybdenum, MW-28 (mg/L)



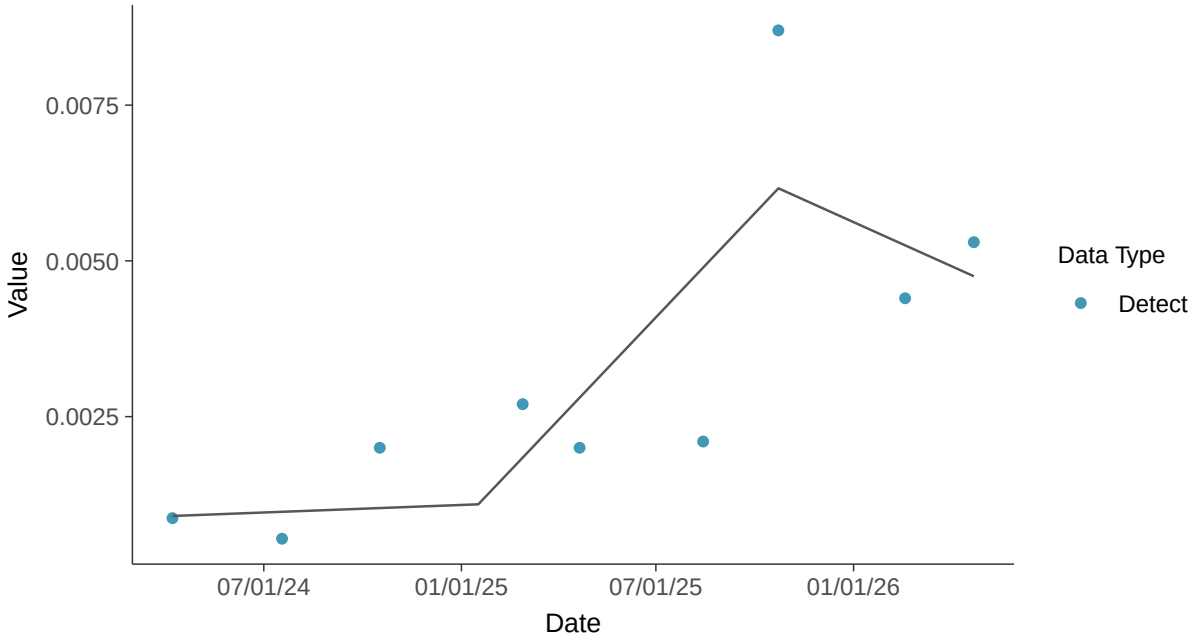
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-28 (mg/L)

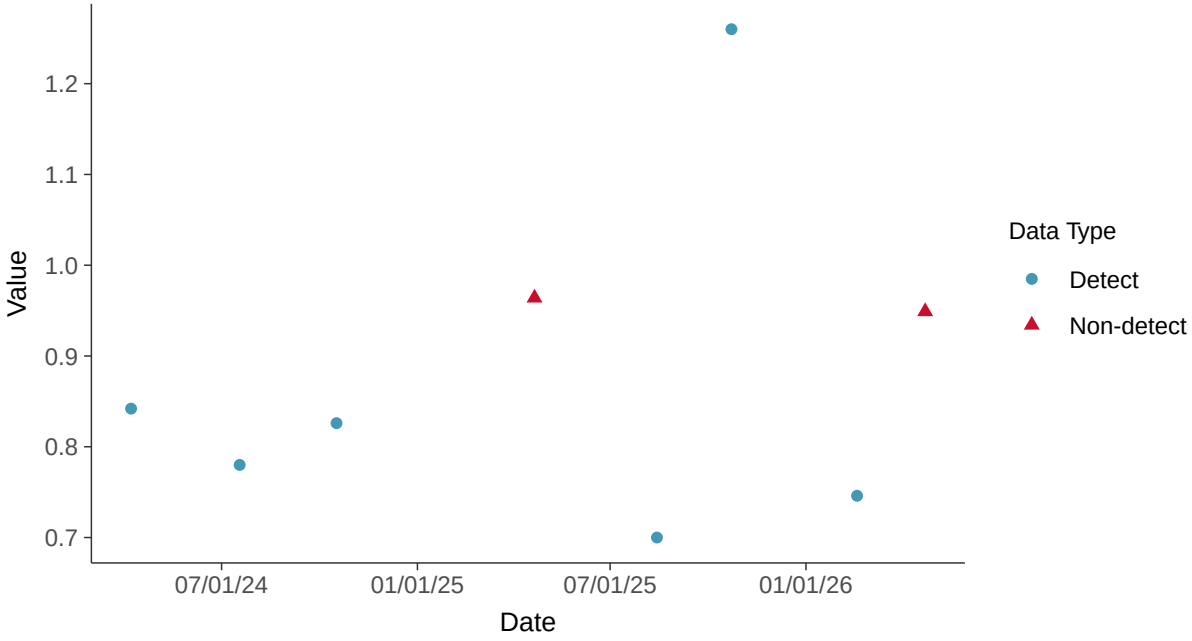


Appendix IV: Radium 226 and 228, MW-28

ID: 38_1_4_121

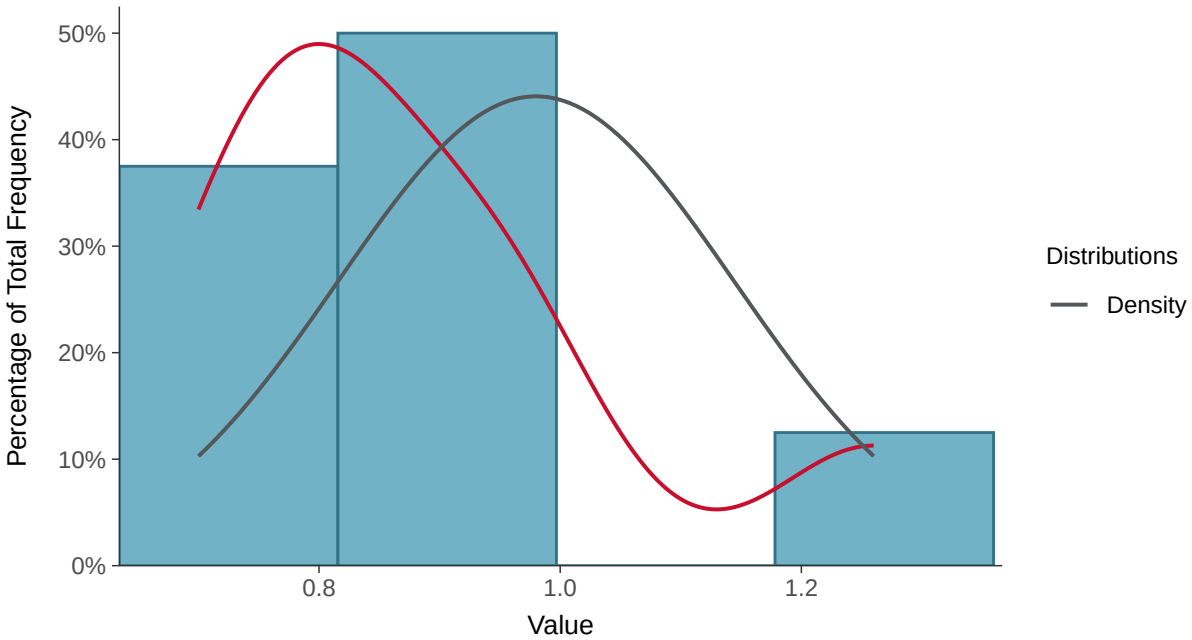
Scatter Plot

Radium 226 and 228, MW-28 (pCi/L)



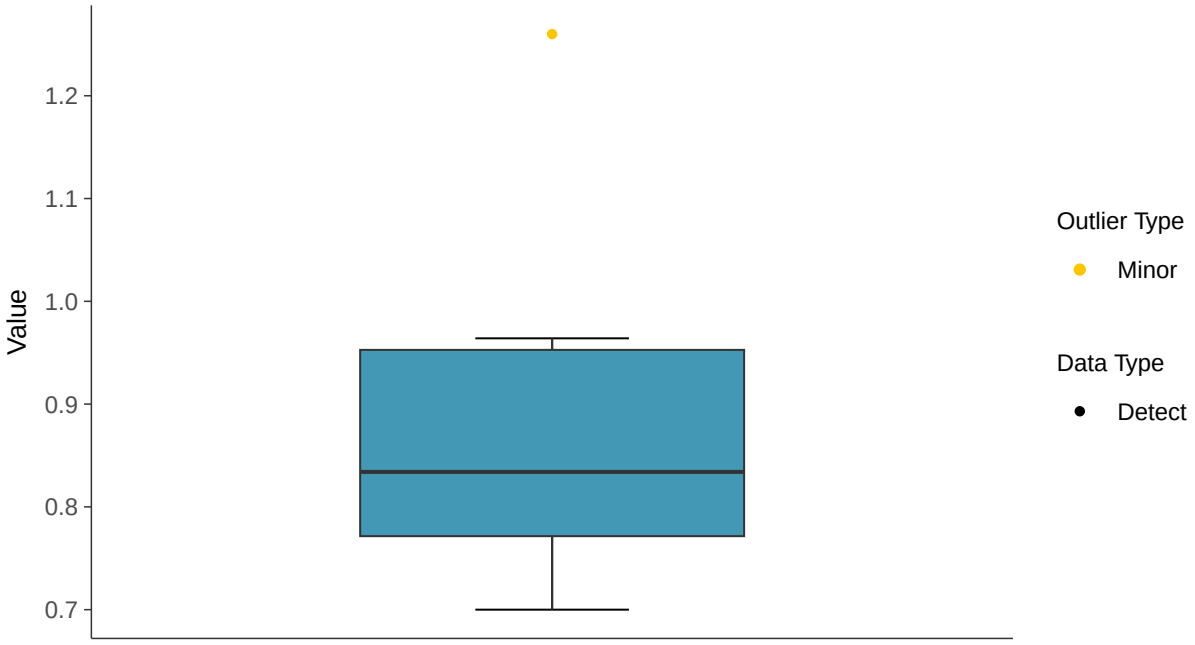
Histogram

Radium 226 and 228, MW-28 (pCi/L)



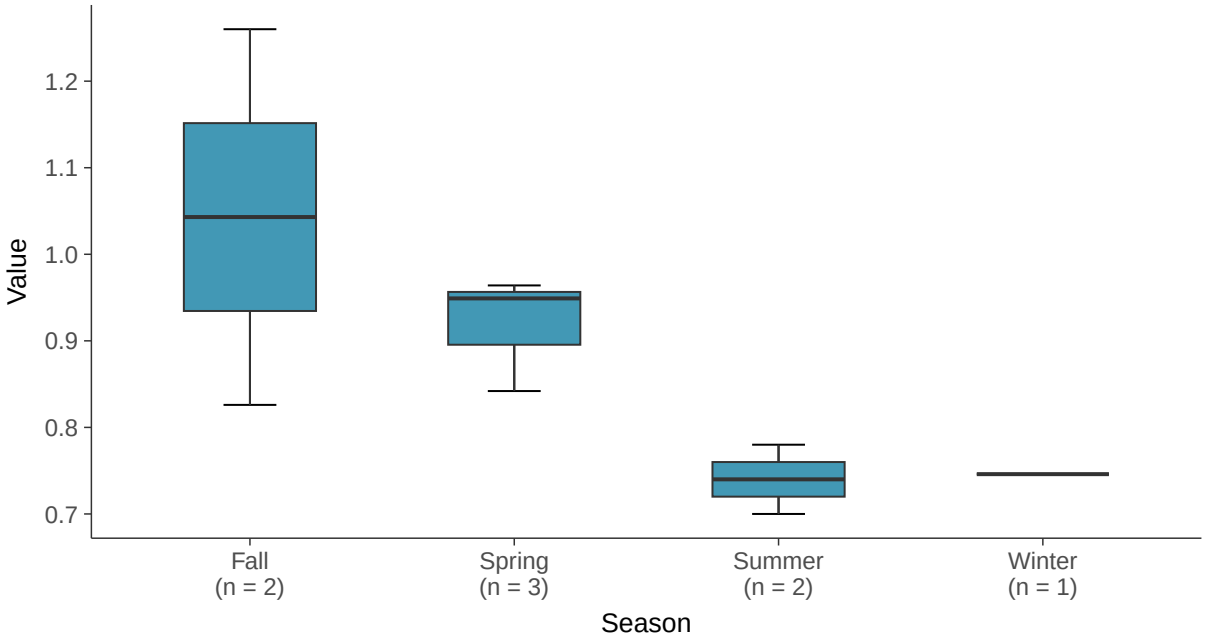
Boxplot

Radium 226 and 228, MW-28 (pCi/L)



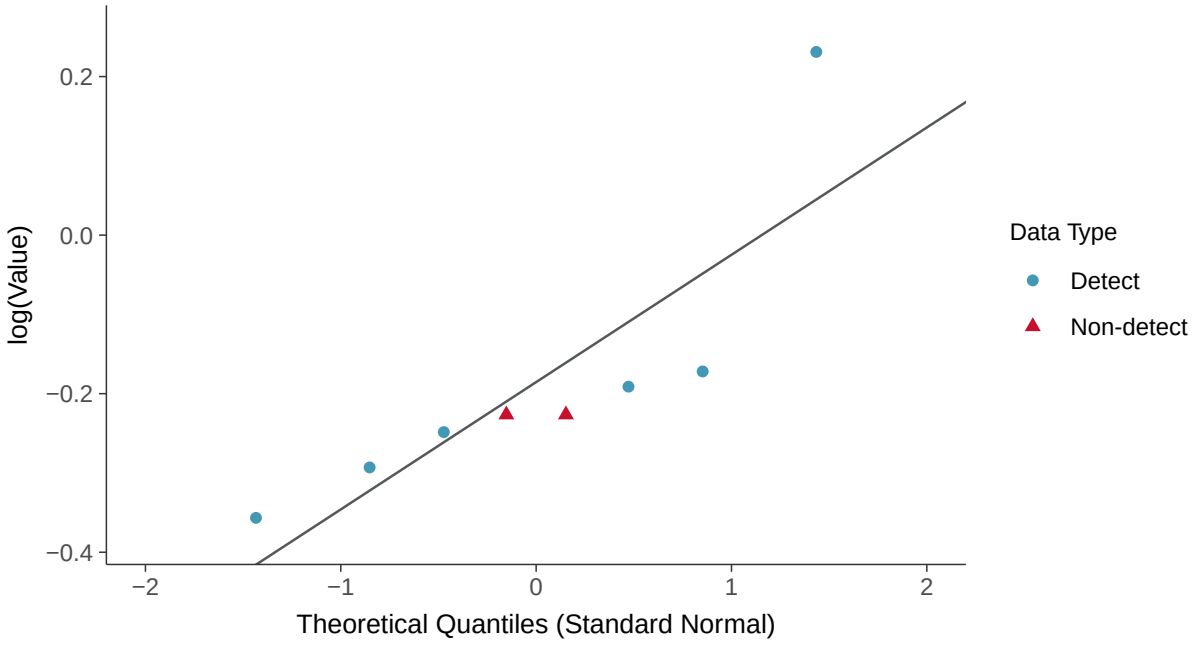
Boxplot by Season

Radium 226 and 228, MW-28 (pCi/L)



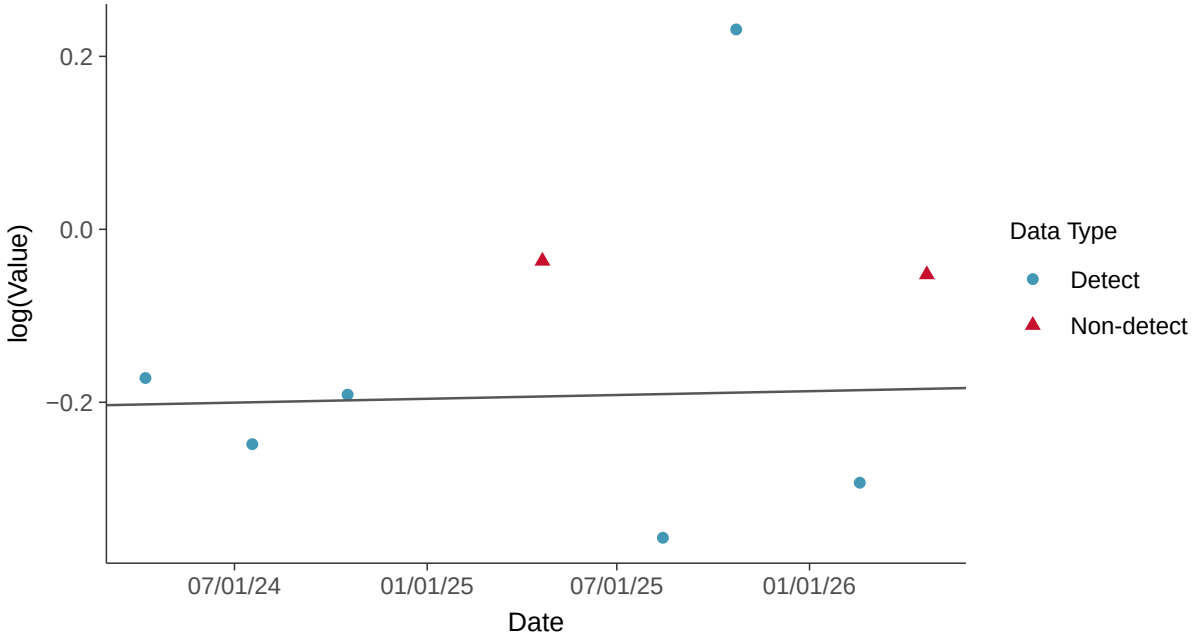
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-28 (pCi/L)



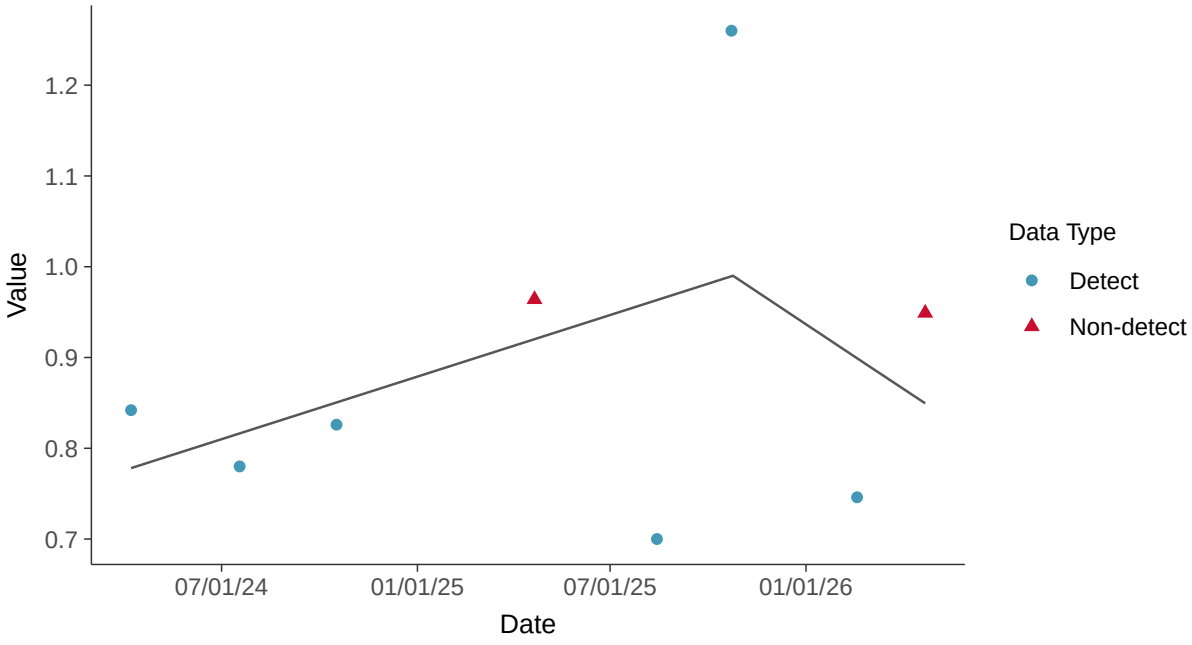
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-28 (pCi/L)



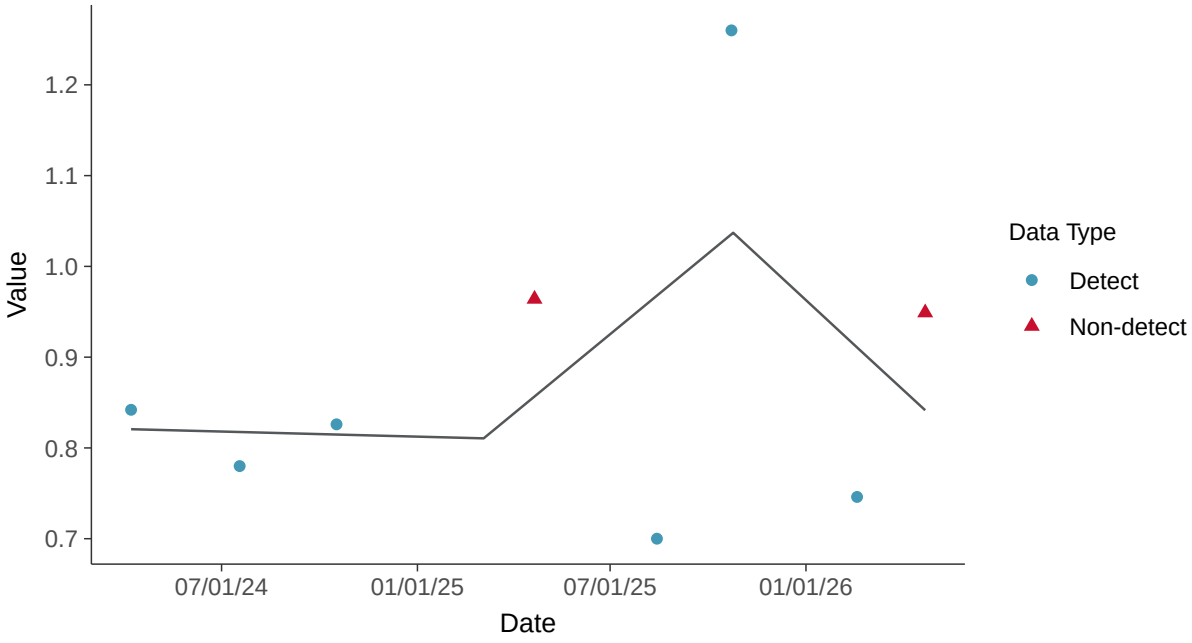
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-28 (pCi/L)



Trend Regression: Piecewise Linear-Linear-Linear

Radium 226 and 228, MW-28 (pCi/L)

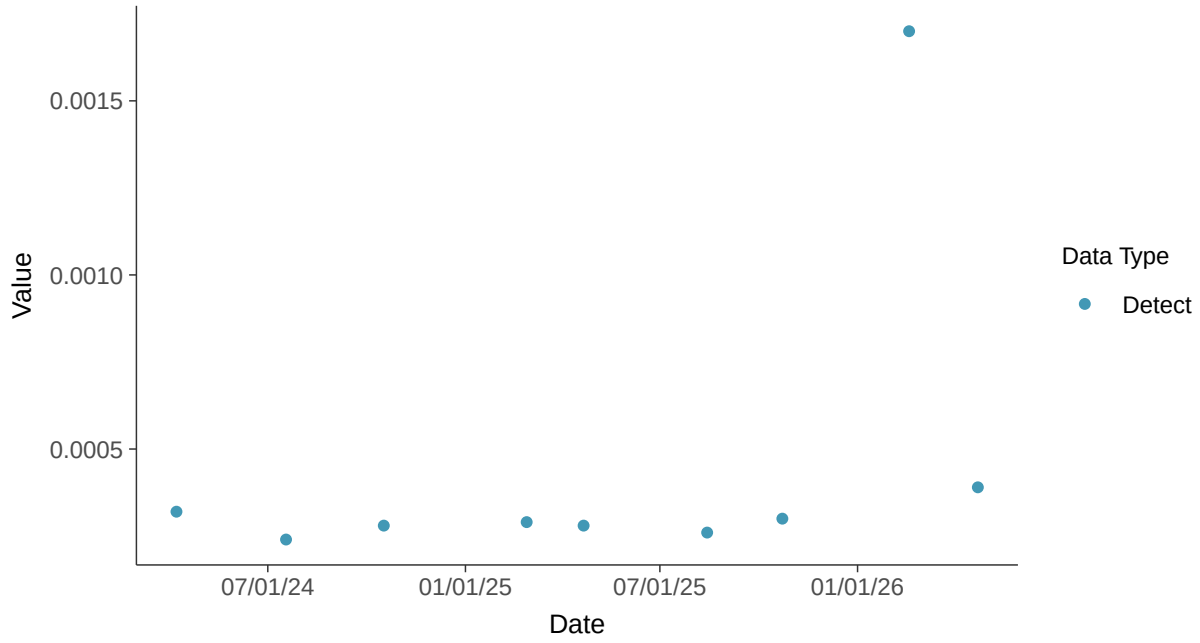


Appendix IV: Selenium, MW-28

ID: 38_1_4_122

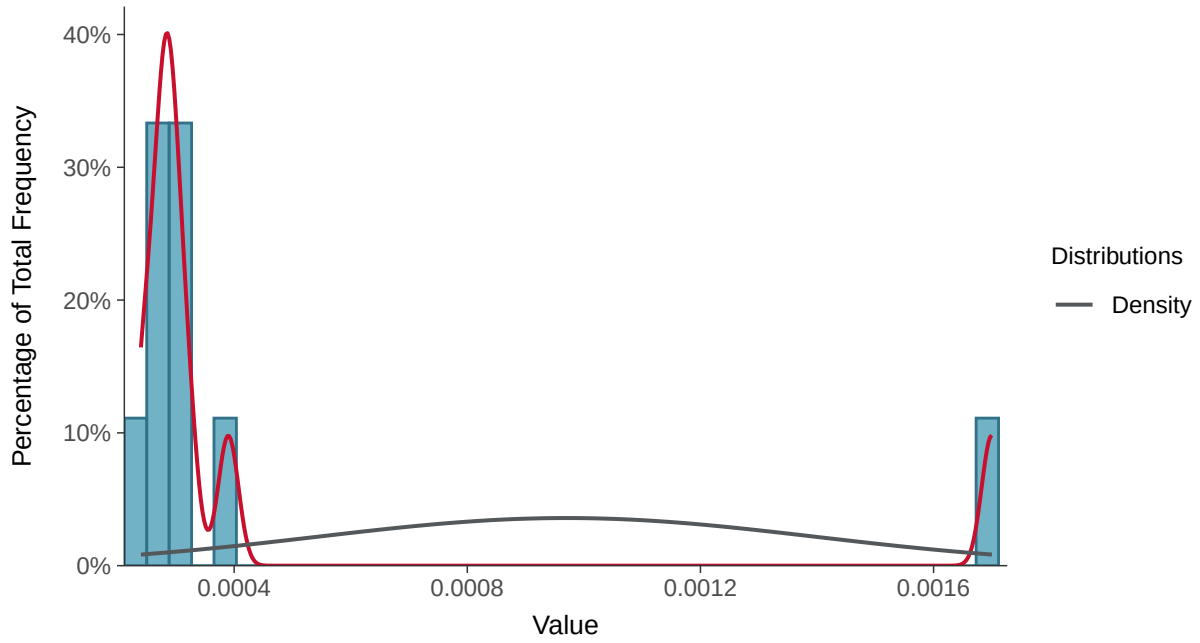
Scatter Plot

Selenium, MW-28 (mg/L)



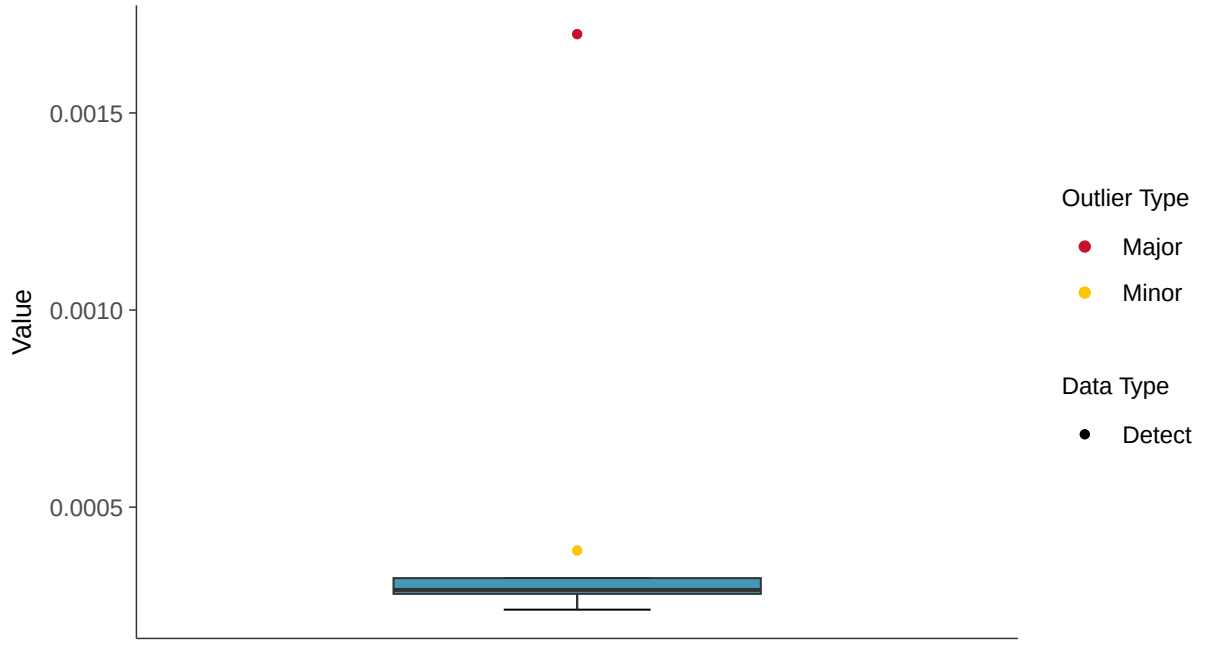
Histogram

Selenium, MW-28 (mg/L)



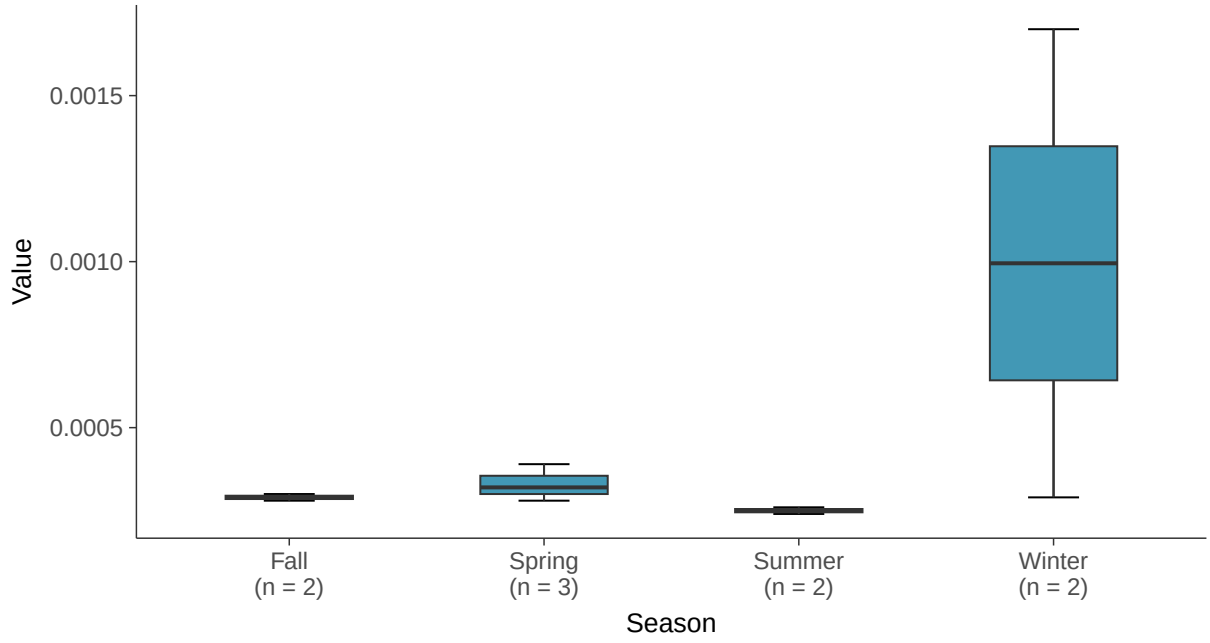
Boxplot

Selenium, MW-28 (mg/L)



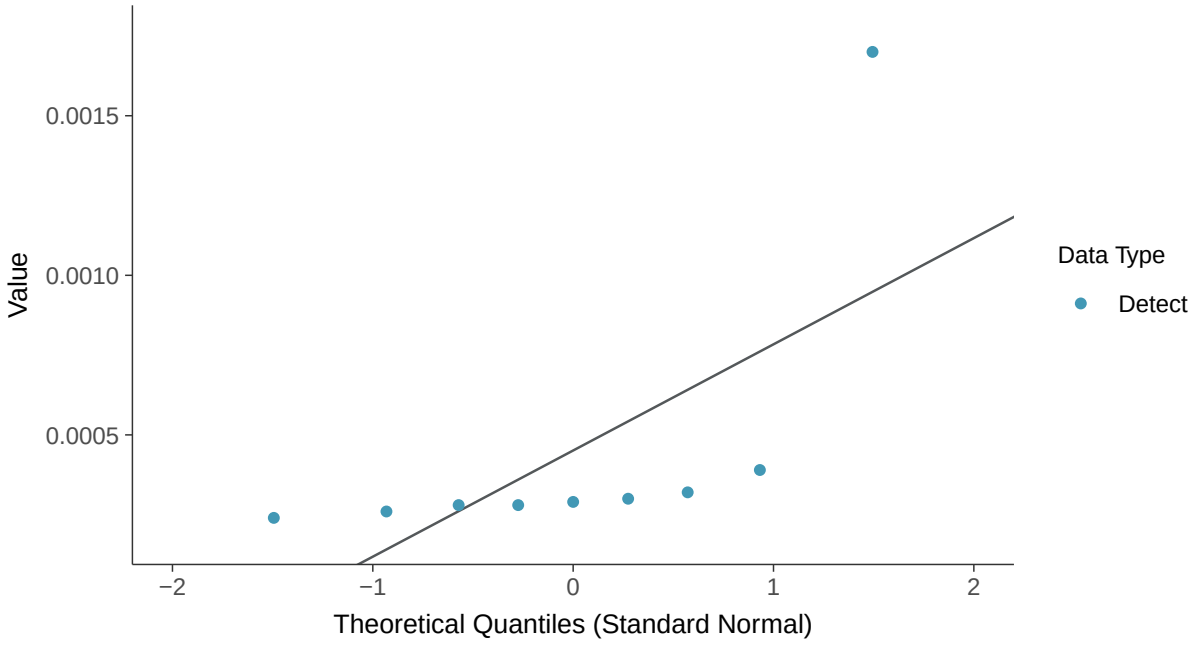
Boxplot by Season

Selenium, MW-28 (mg/L)



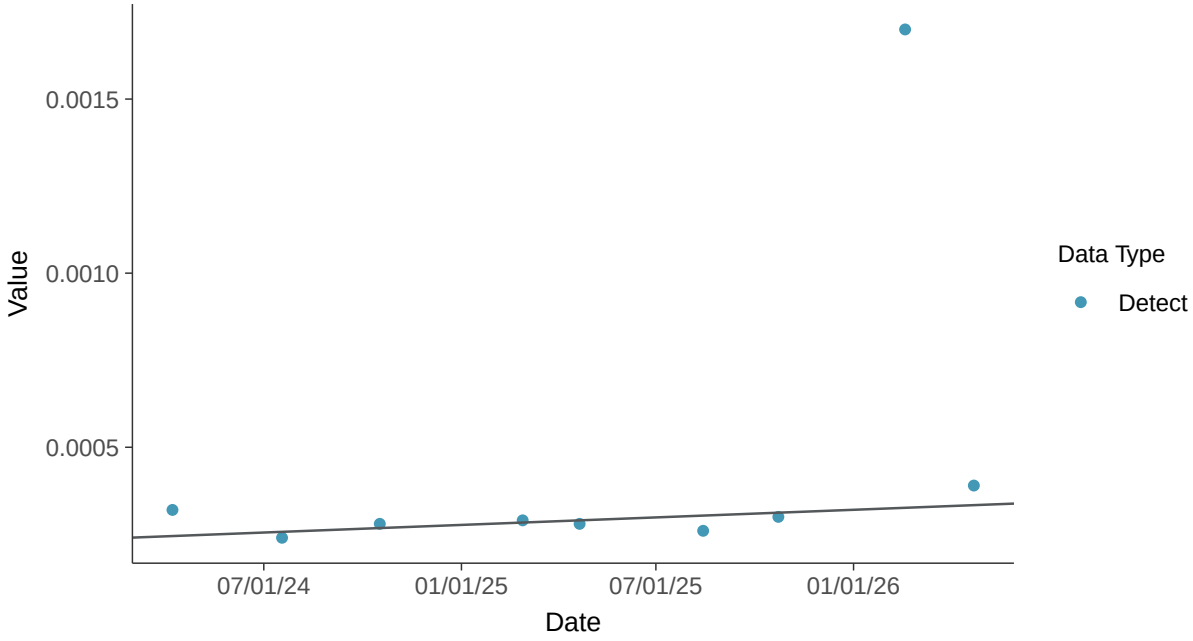
Normal Q-Q plot

Selenium, MW-28 (mg/L)



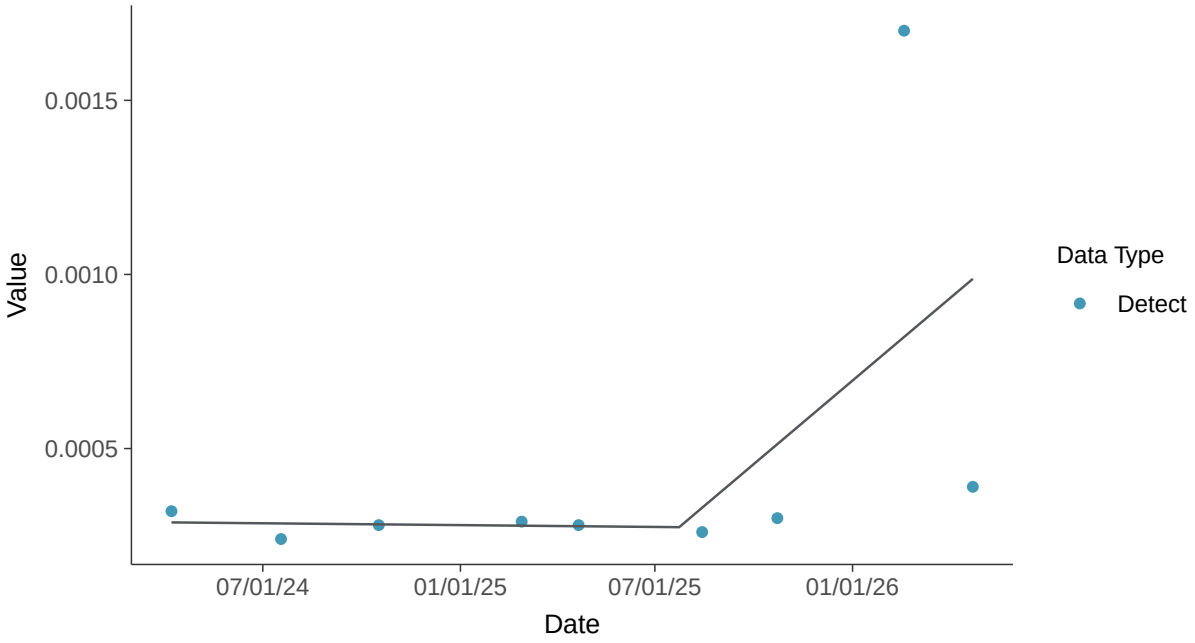
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Selenium, MW-28 (mg/L)



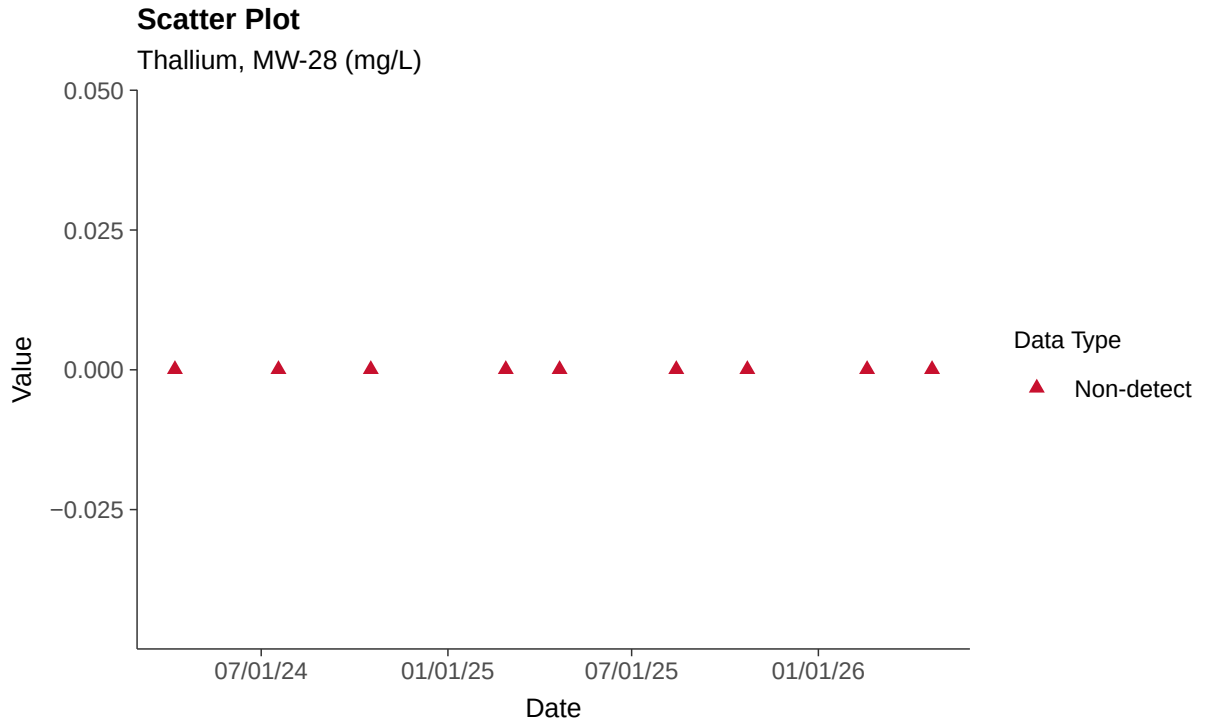
Trend Regression: Piecewise Linear-Linear

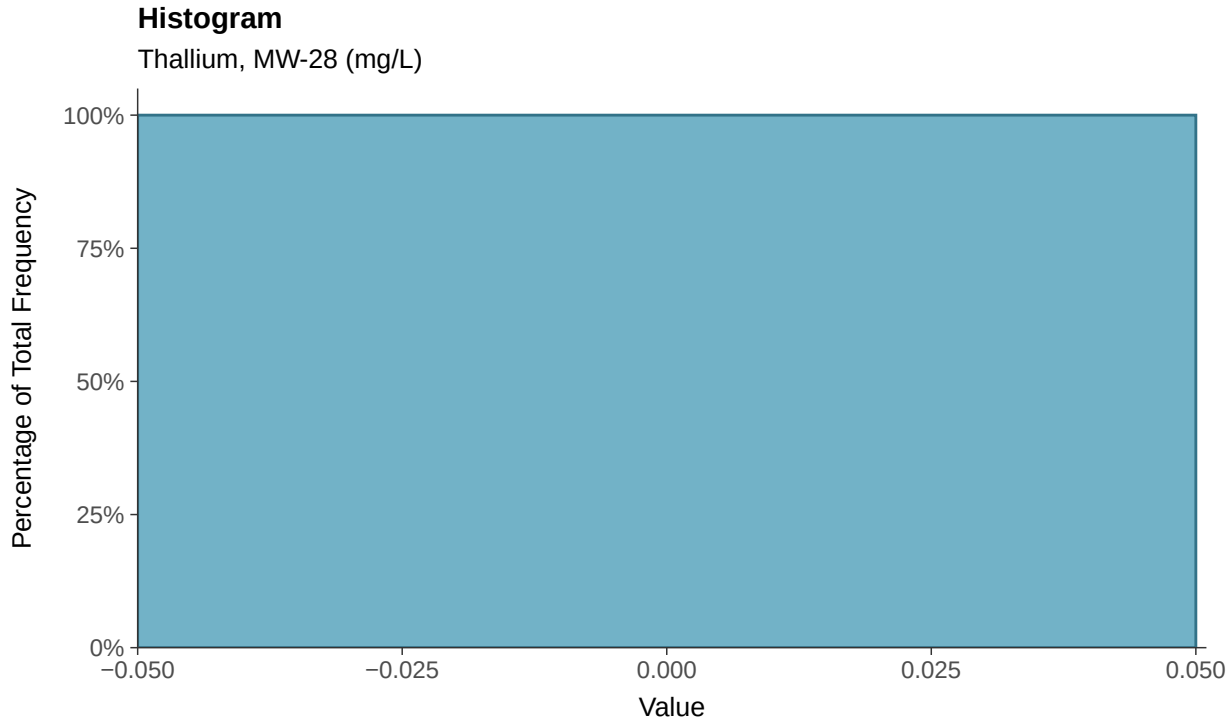
Selenium, MW-28 (mg/L)



Appendix IV: Thallium, MW-28

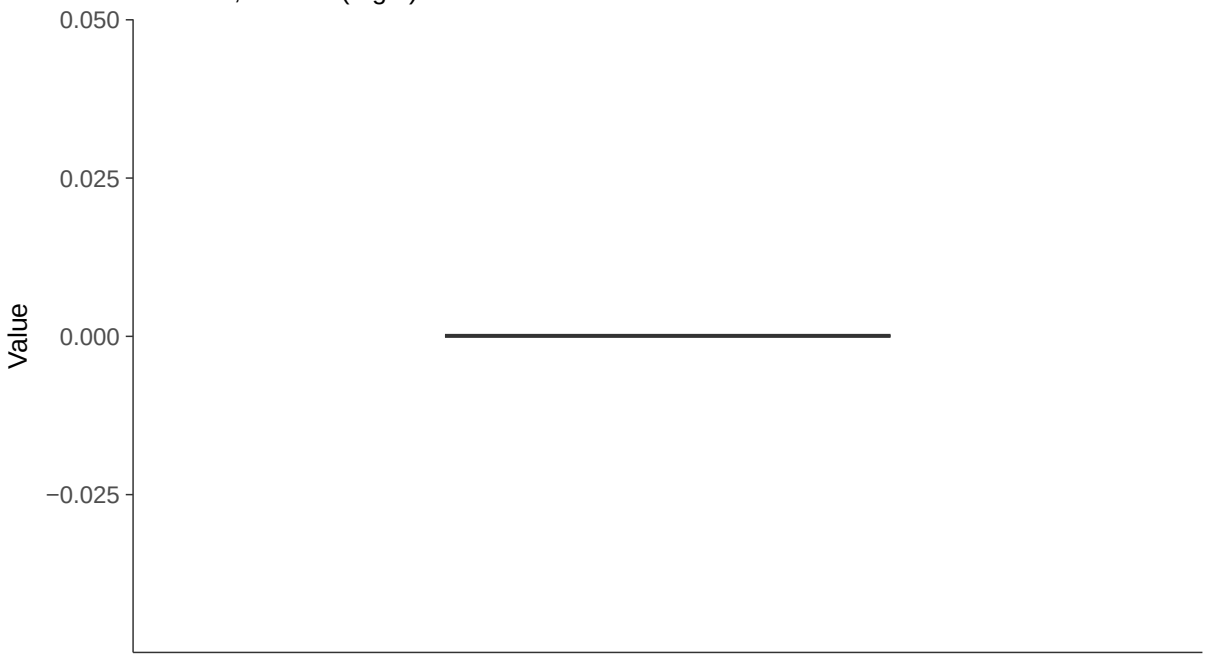
ID: 38_1_4_125





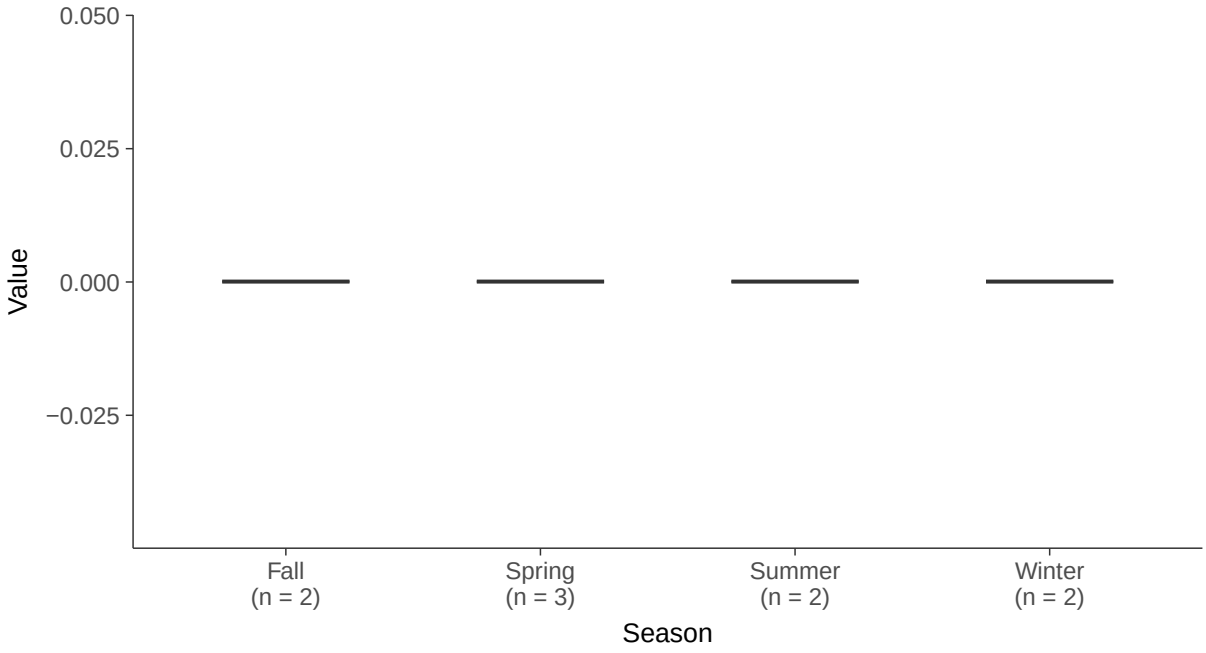
Boxplot

Thallium, MW-28 (mg/L)



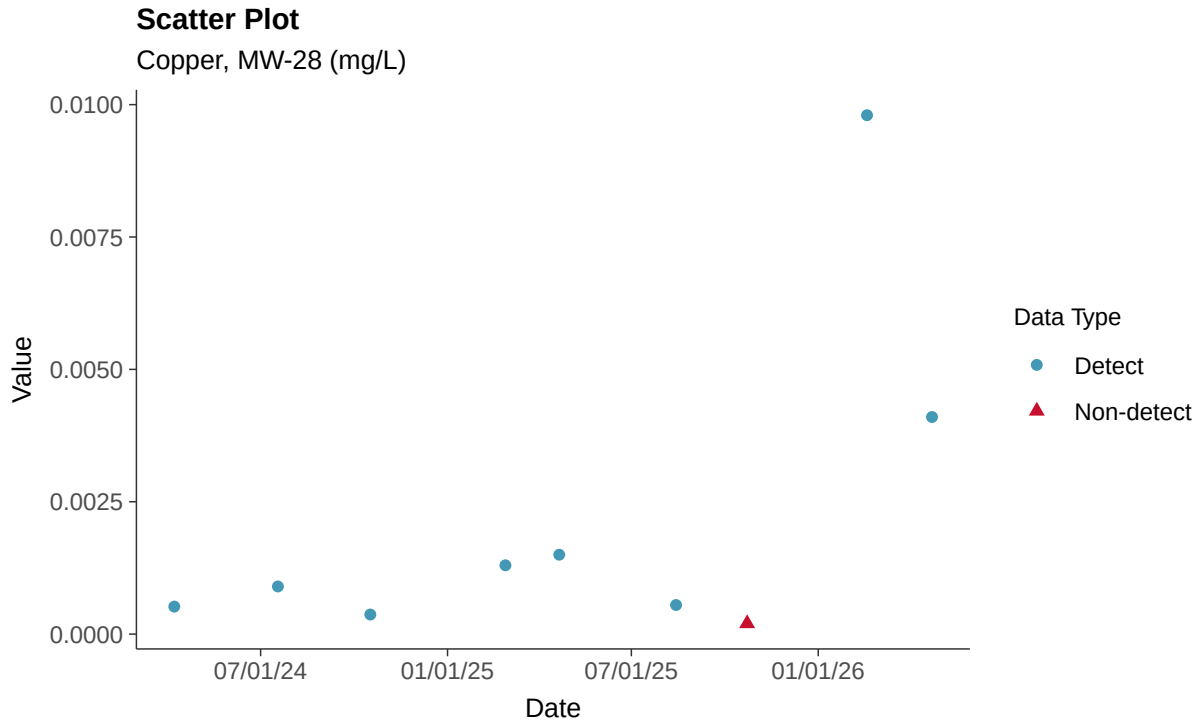
Boxplot by Season

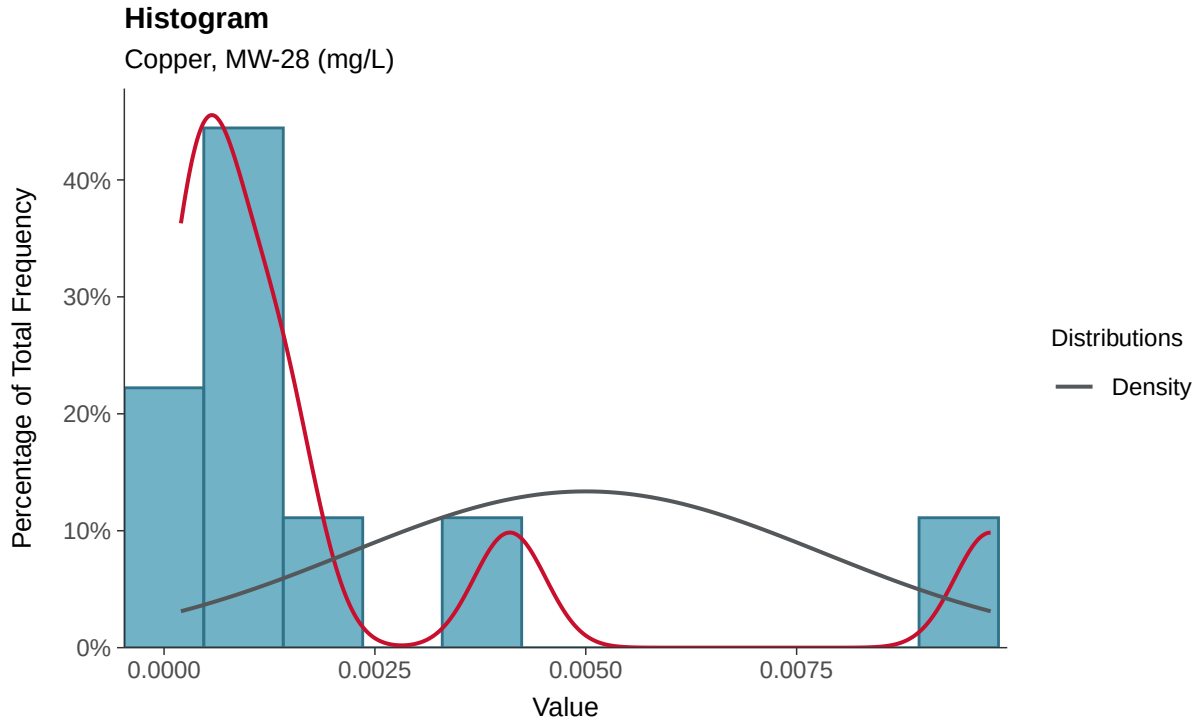
Thallium, MW-28 (mg/L)



Part 115: Copper, MW-28

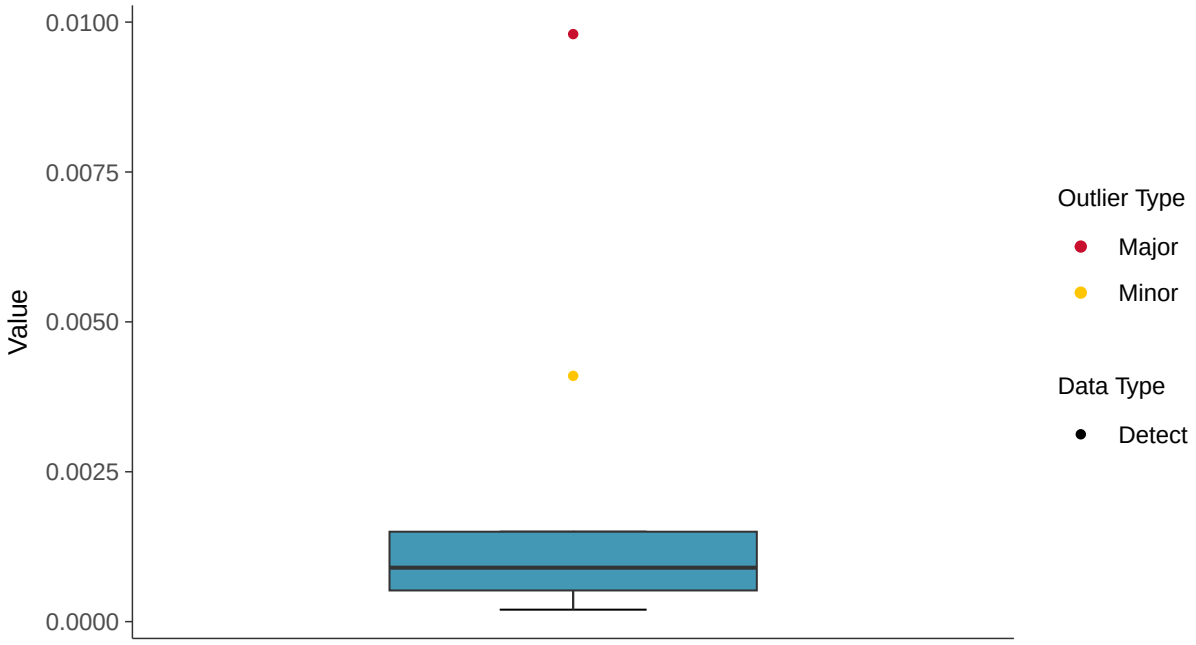
ID: 38_1_5_111





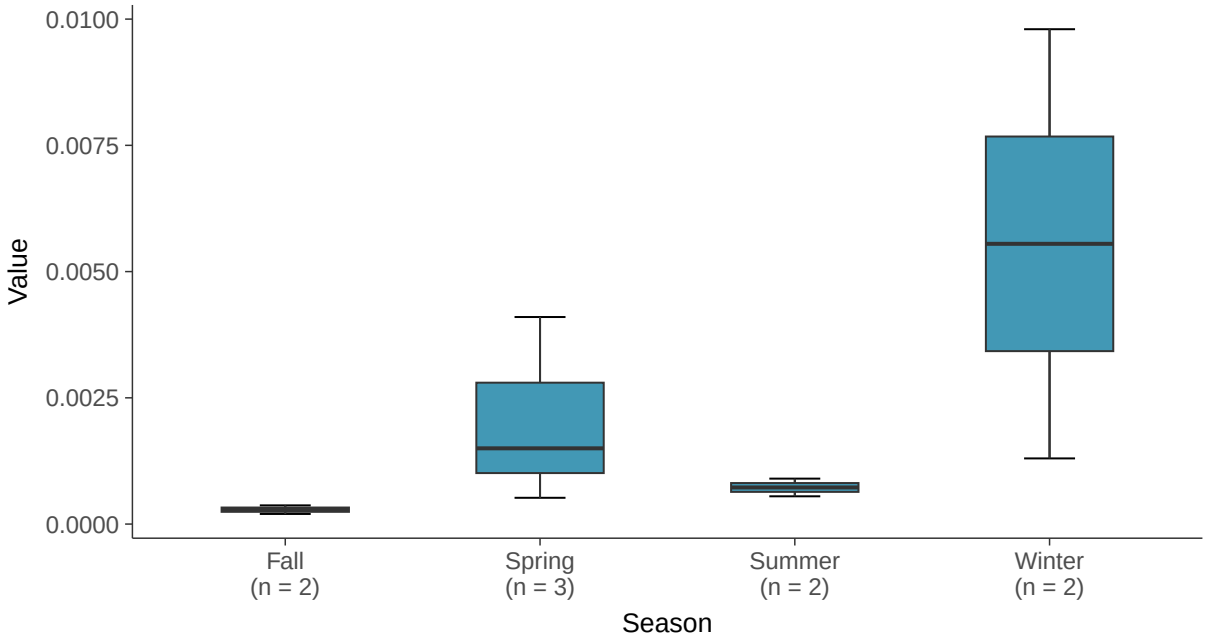
Boxplot

Copper, MW-28 (mg/L)



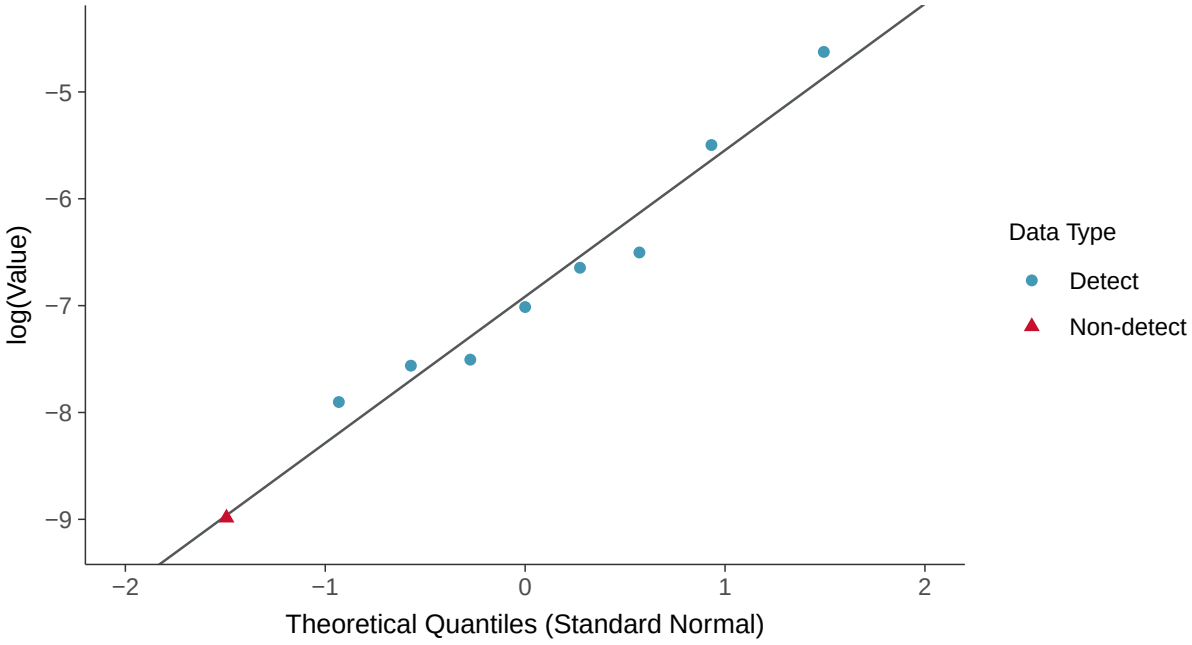
Boxplot by Season

Copper, MW-28 (mg/L)



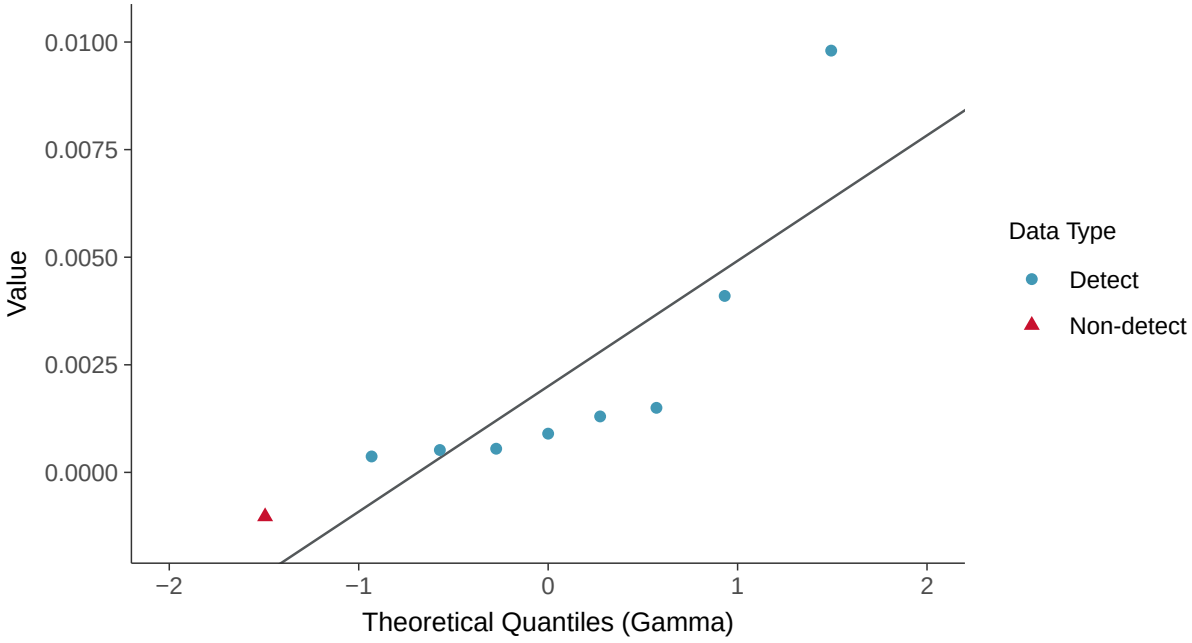
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-28 (mg/L)



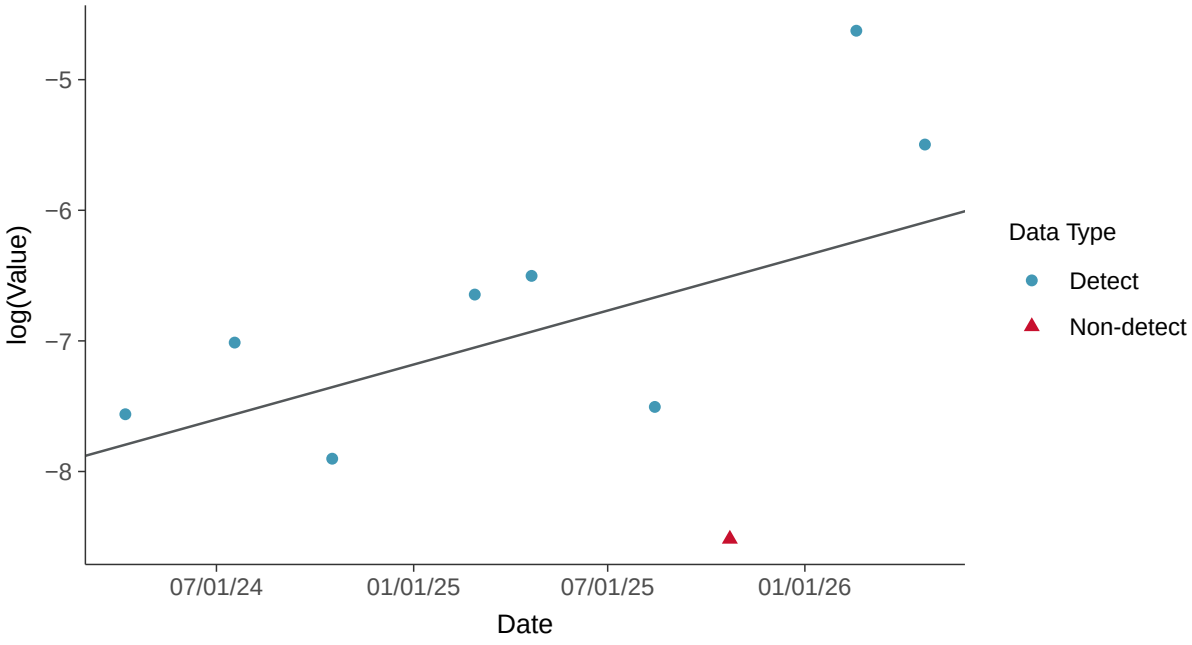
Gamma Q-Q plot using ROS Imputed Estimates

Copper, MW-28 (mg/L)



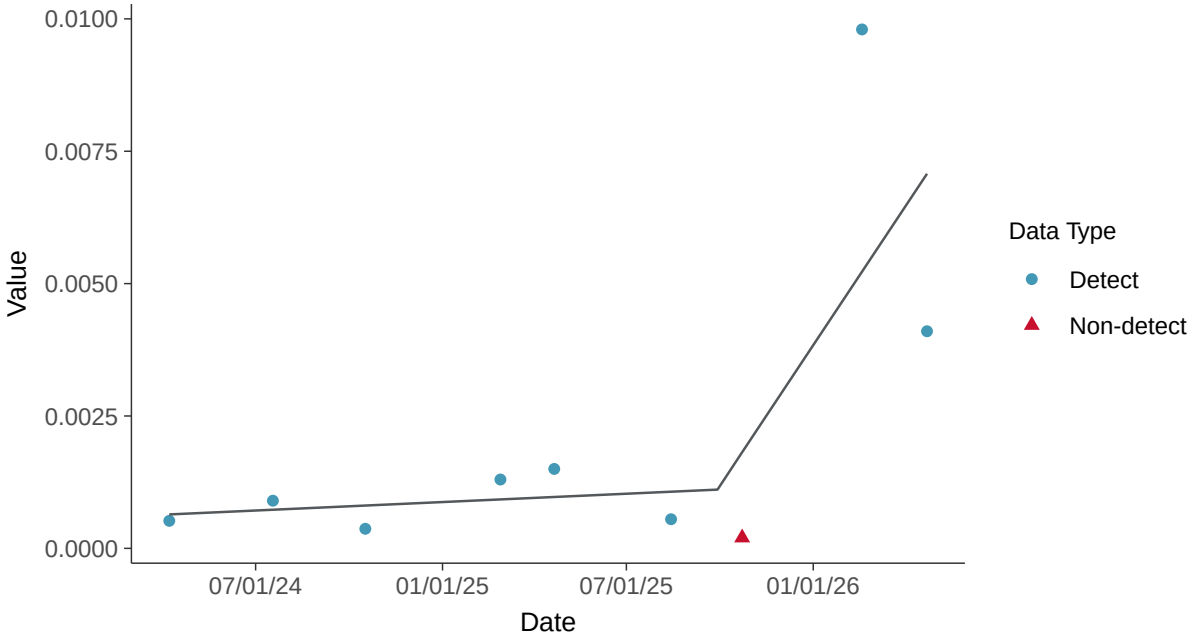
Trend Regression: Lognormal MLE

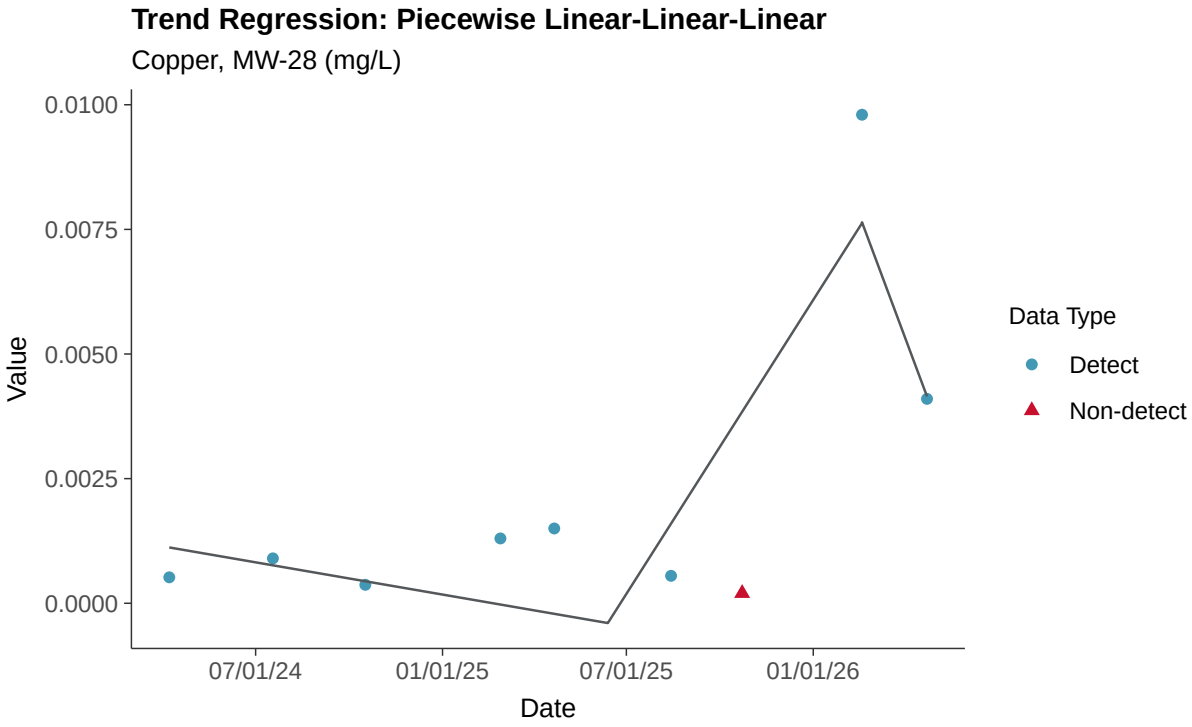
Copper, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-28 (mg/L)



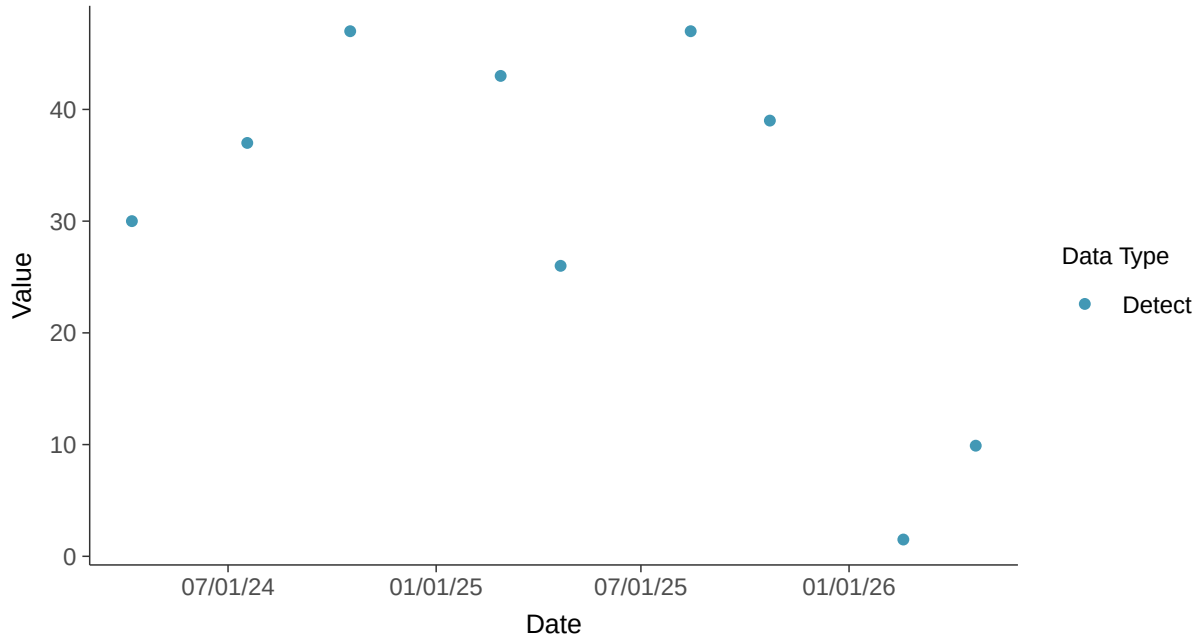

Trend Regression: Piecewise Linear-Linear-Linear
Copper, MW-28 (mg/L)
0.0100
0.0075
0.0050
0.0025
0.0000
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Iron, MW-28

ID: 38_1_5_114

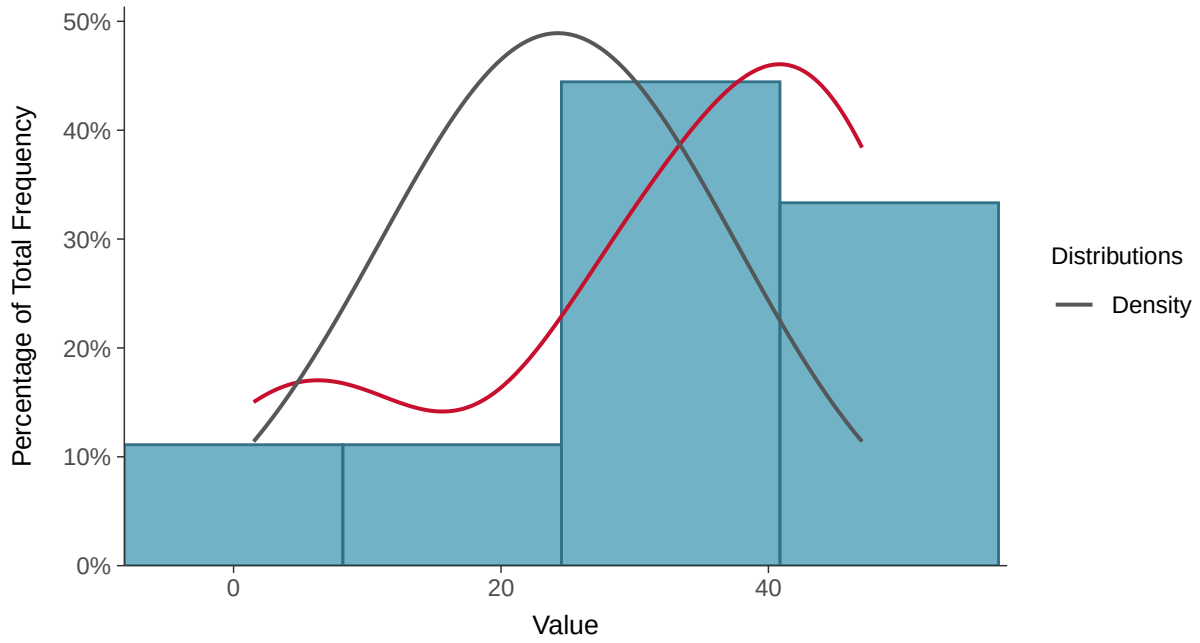
Scatter Plot

Iron, MW-28 (mg/L)



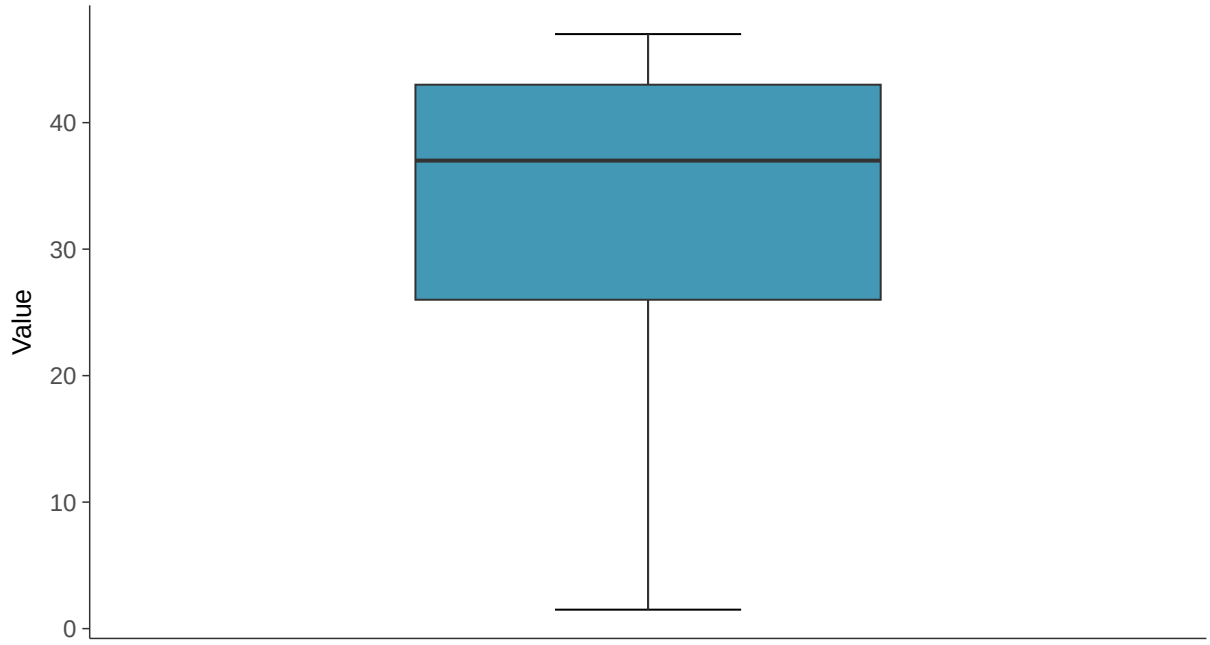
Histogram

Iron, MW-28 (mg/L)



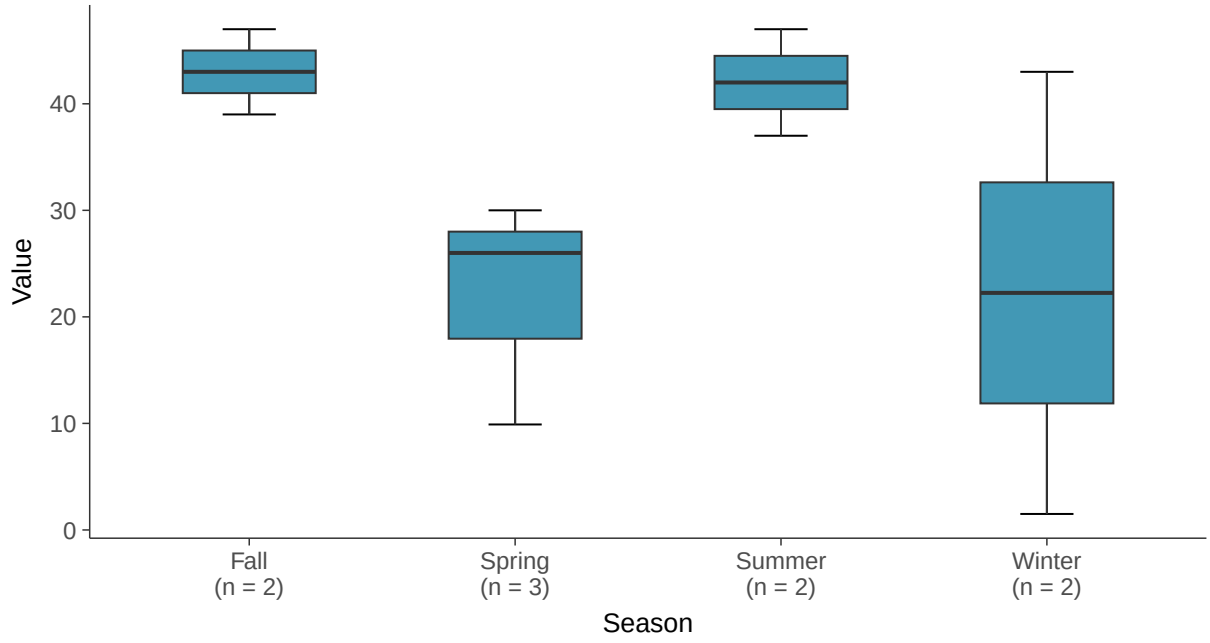
Boxplot

Iron, MW-28 (mg/L)



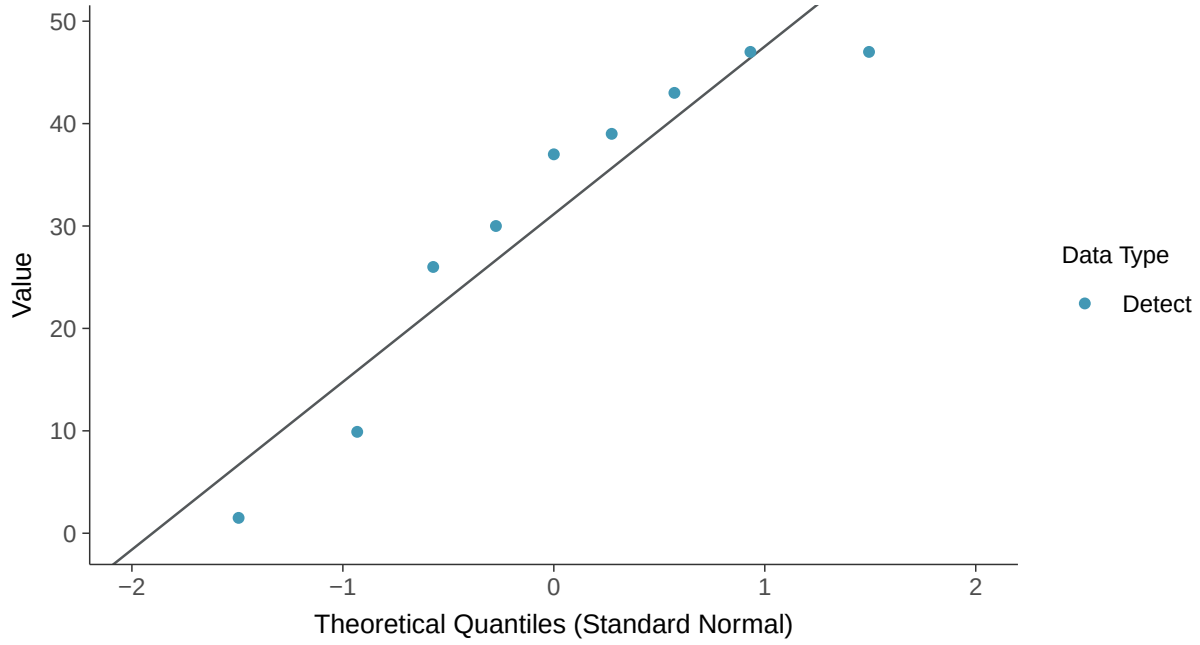
Boxplot by Season

Iron, MW-28 (mg/L)



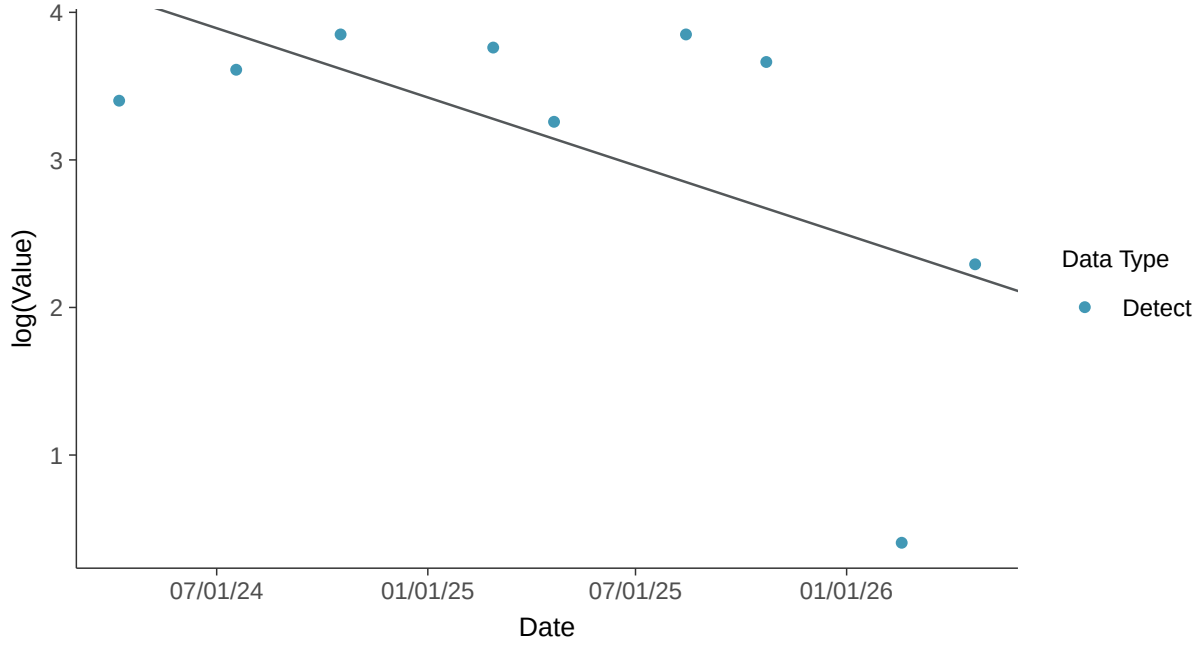
Normal Q-Q plot

Iron, MW-28 (mg/L)



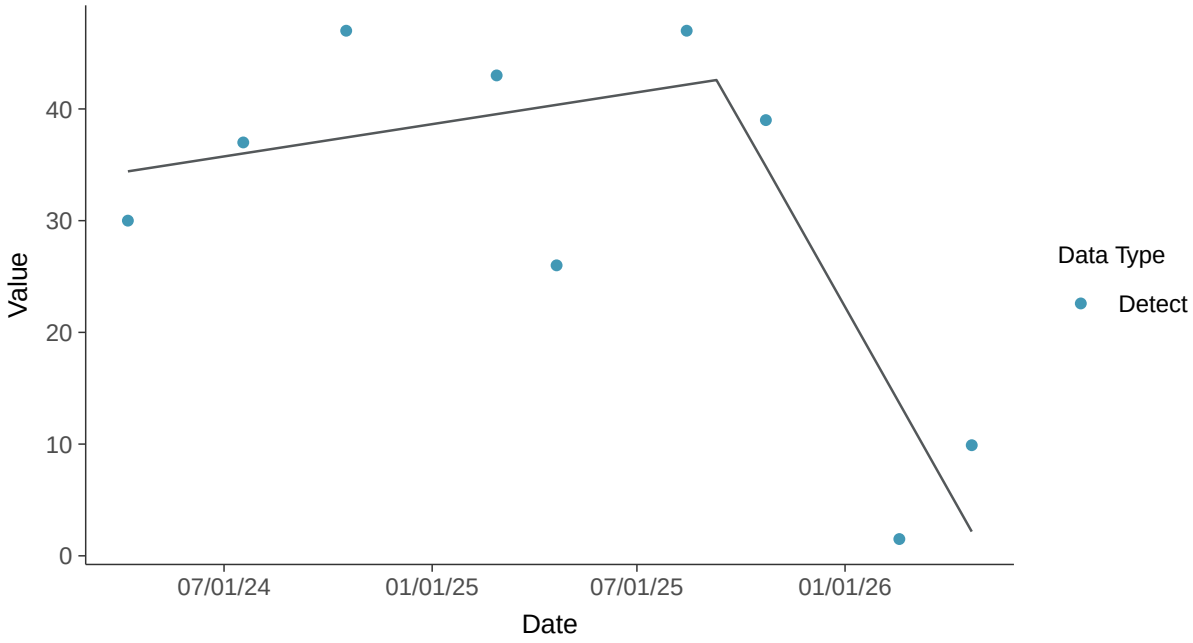
Trend Regression: Lognormal MLE

Iron, MW-28 (mg/L)



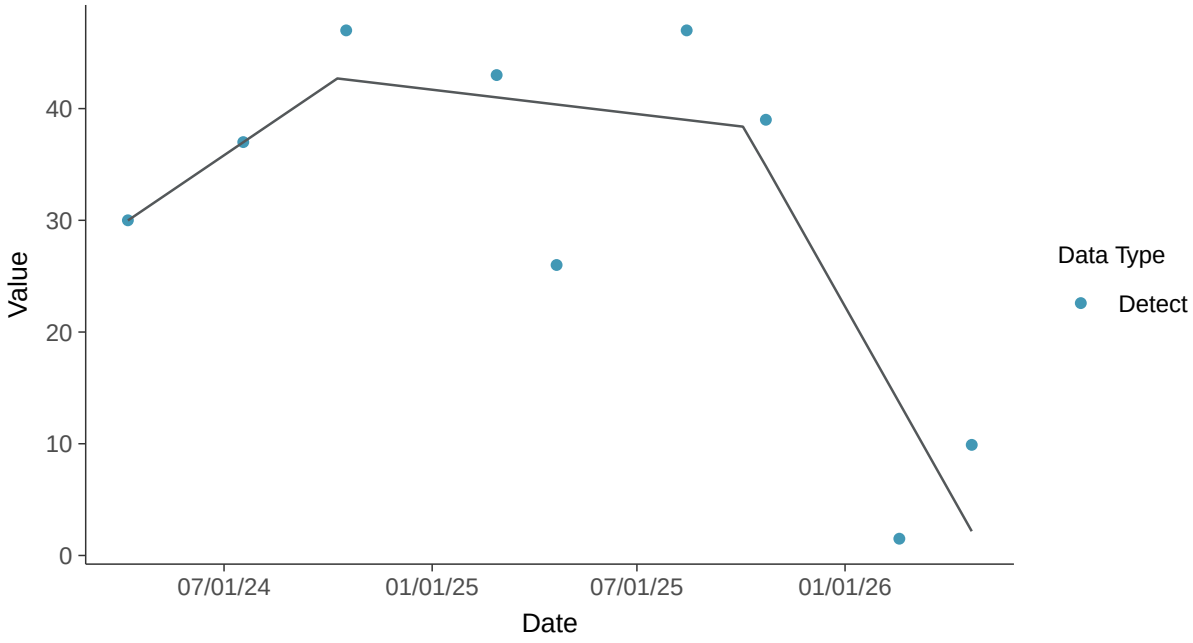
Trend Regression: Piecewise Linear-Linear

Iron, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-28 (mg/L)

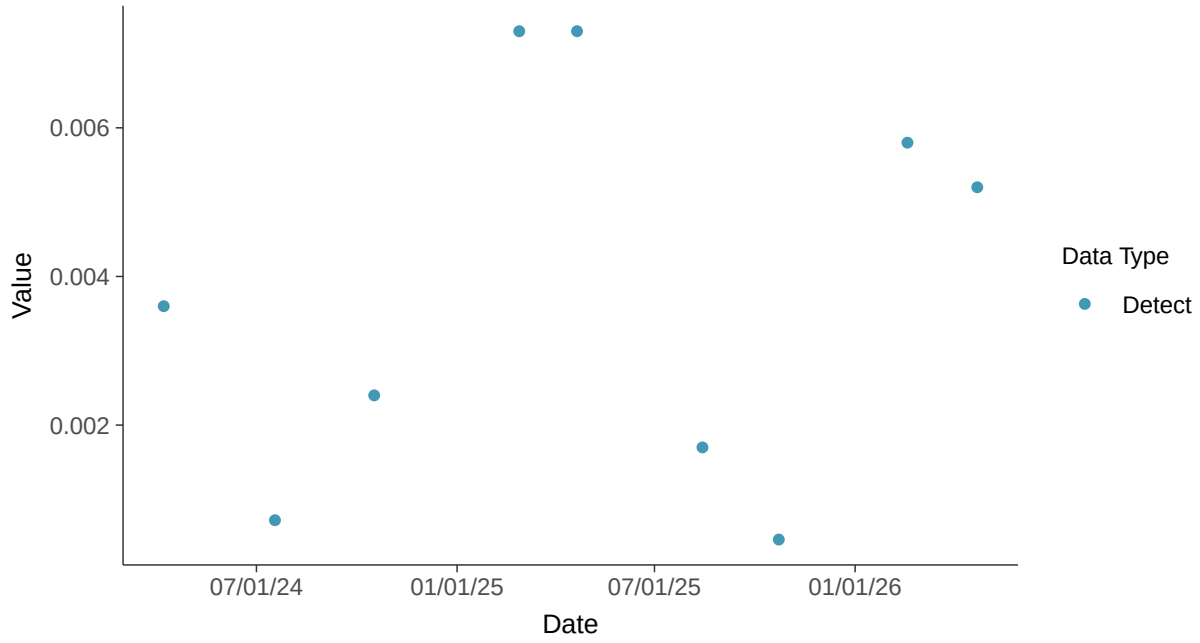


Part 115: Nickel, MW-28

ID: 38_1_5_119

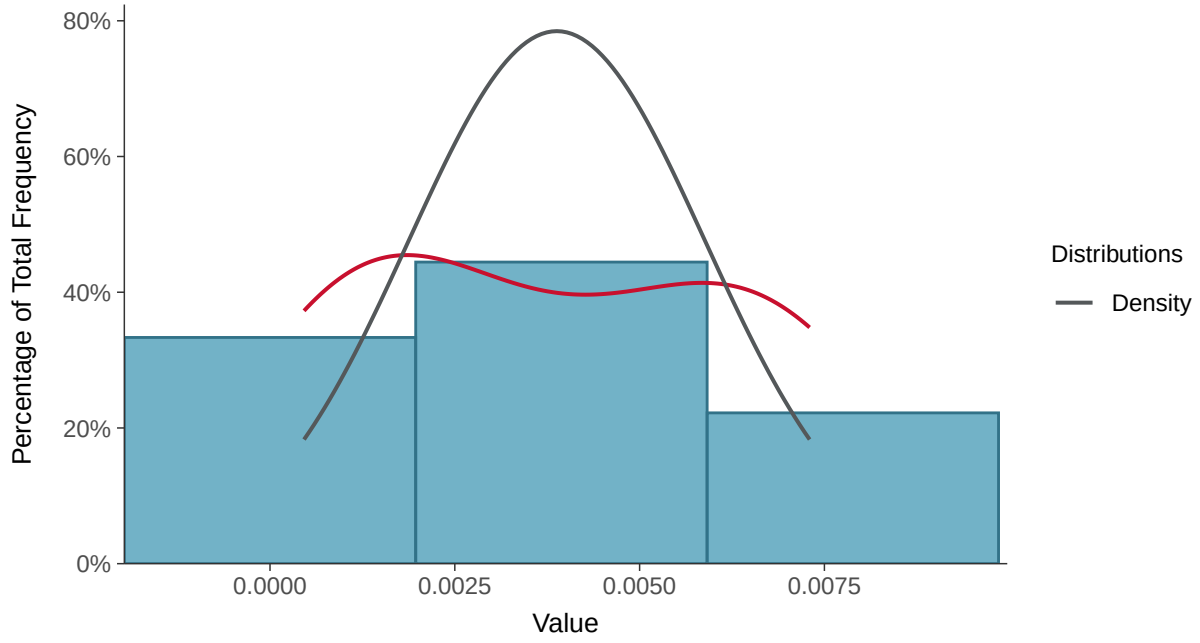
Scatter Plot

Nickel, MW-28 (mg/L)



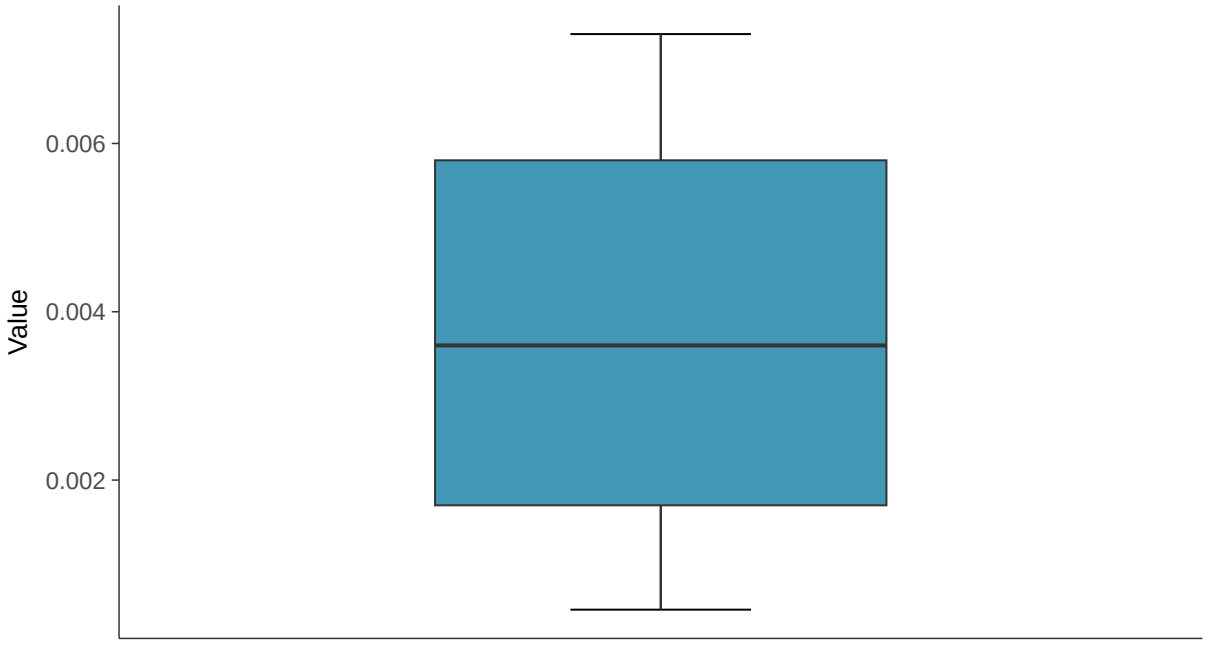
Histogram

Nickel, MW-28 (mg/L)



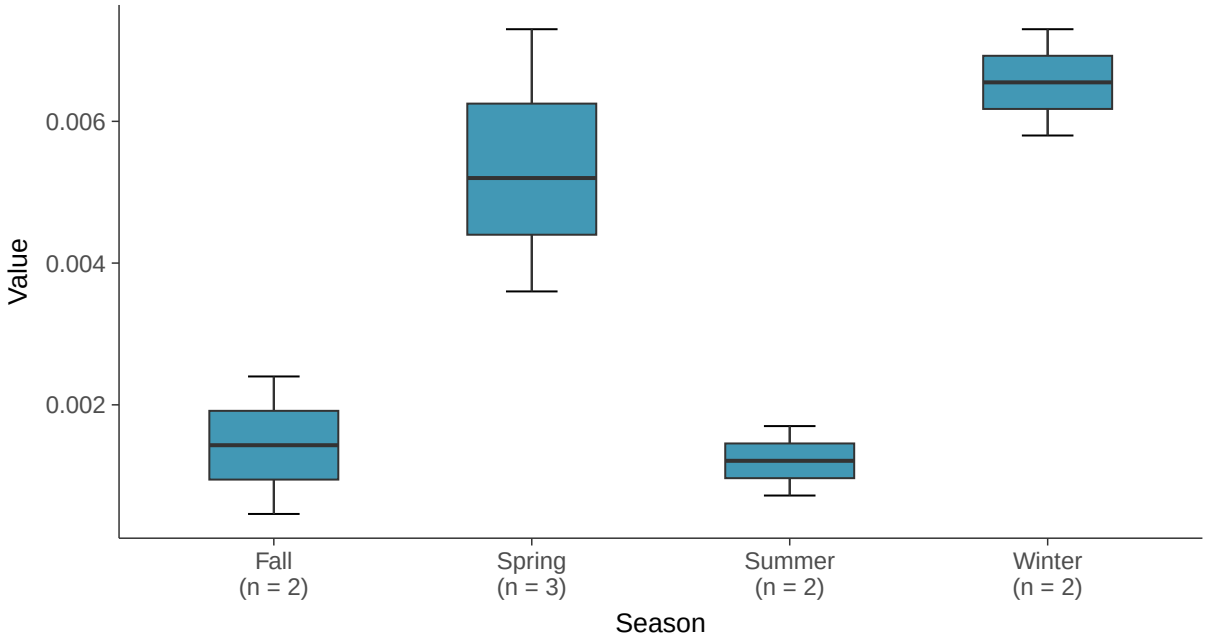
Boxplot

Nickel, MW-28 (mg/L)



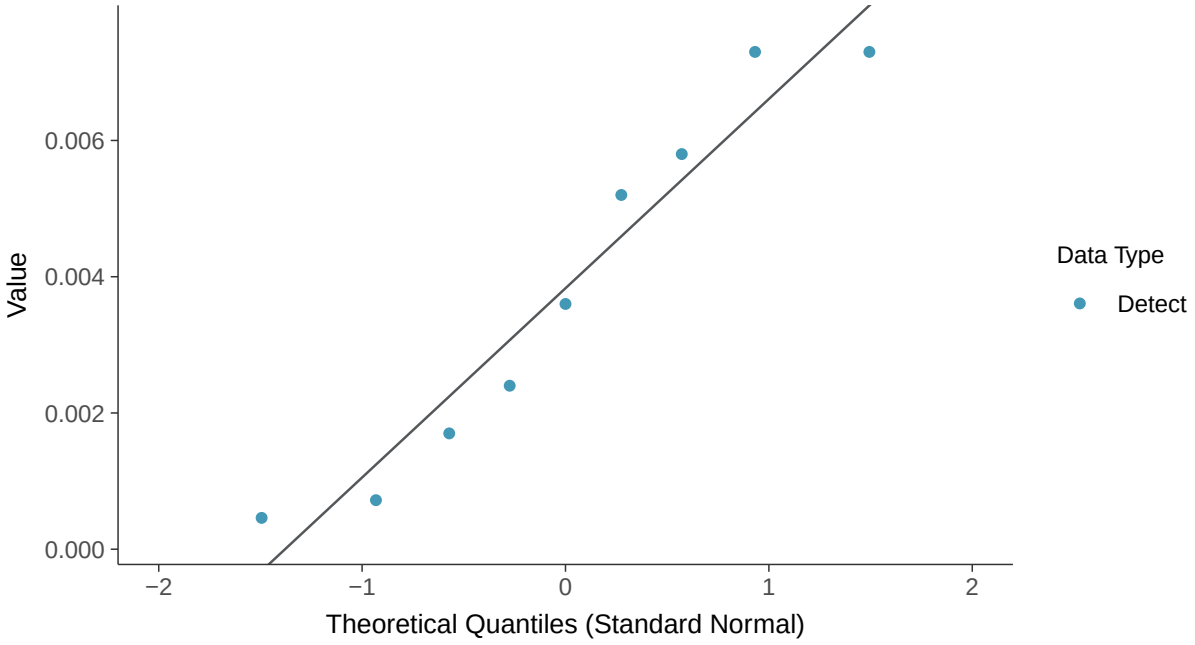
Boxplot by Season

Nickel, MW-28 (mg/L)



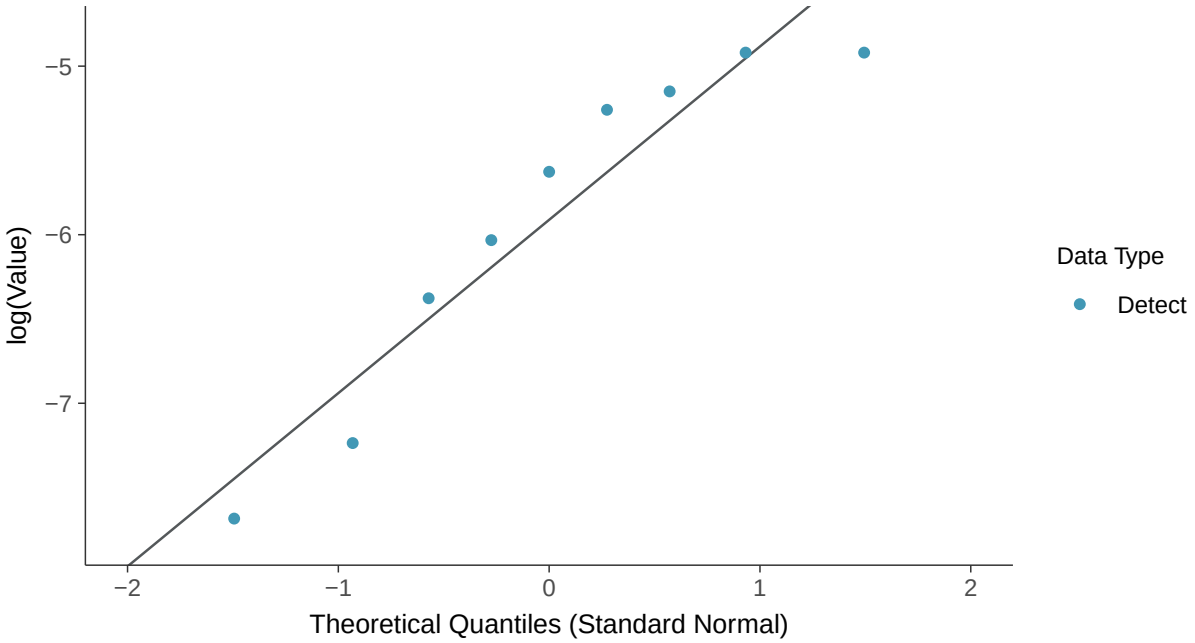
Normal Q-Q plot

Nickel, MW-28 (mg/L)



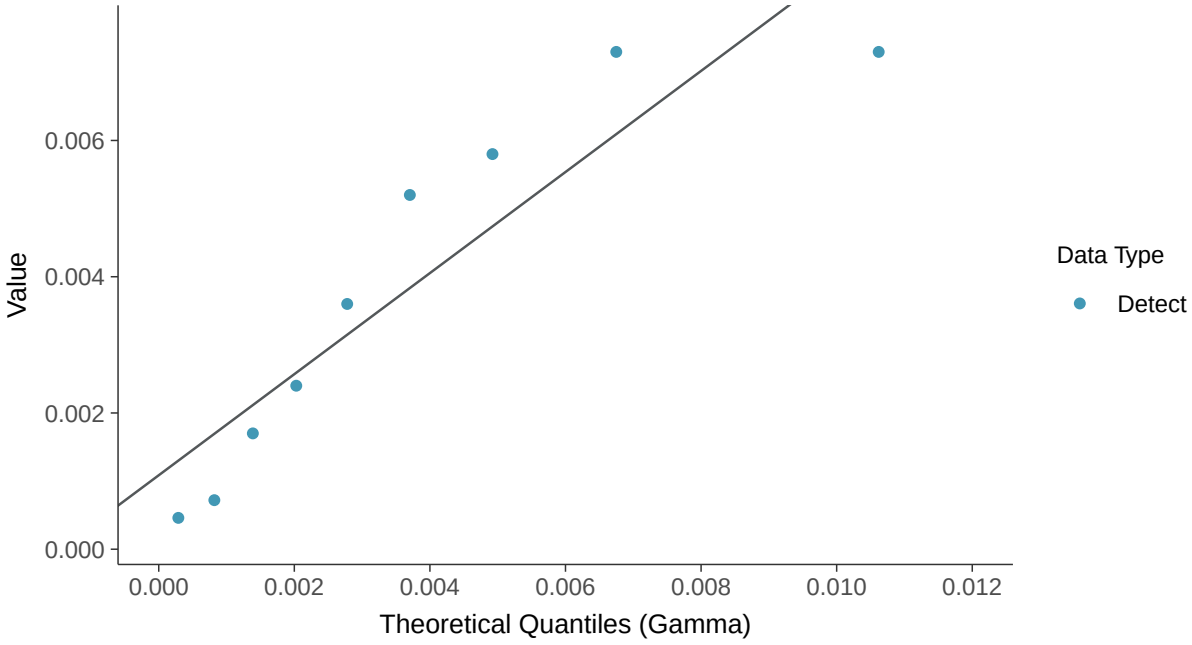
Lognormal Q-Q plot

Nickel, MW-28 (mg/L)



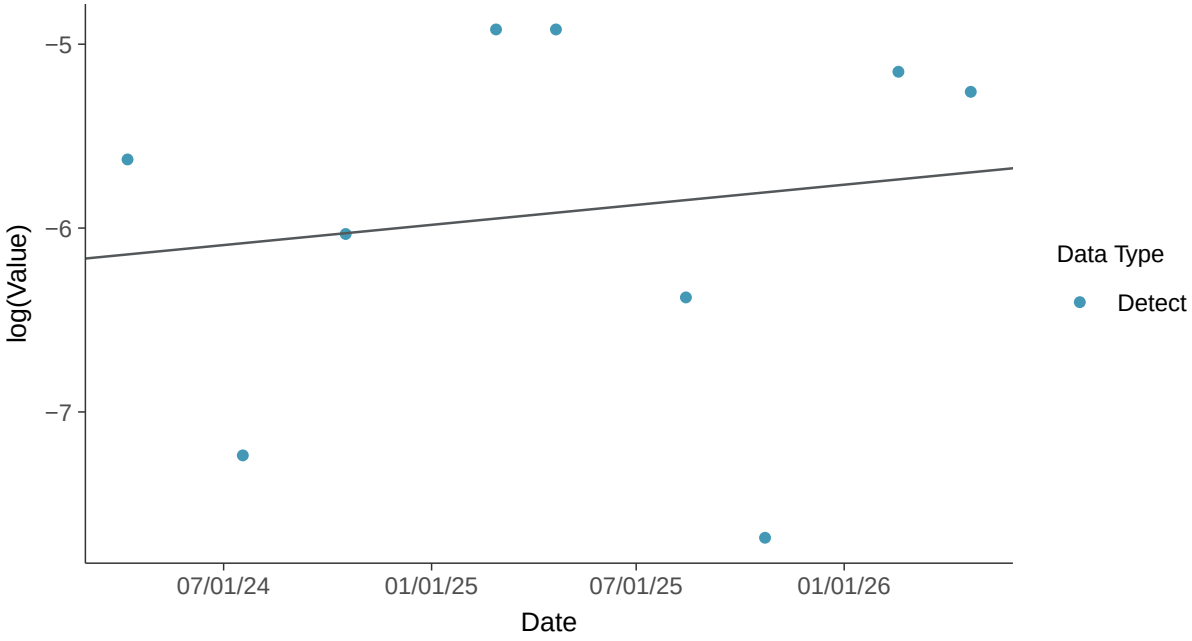
Gamma Q-Q plot

Nickel, MW-28 (mg/L)



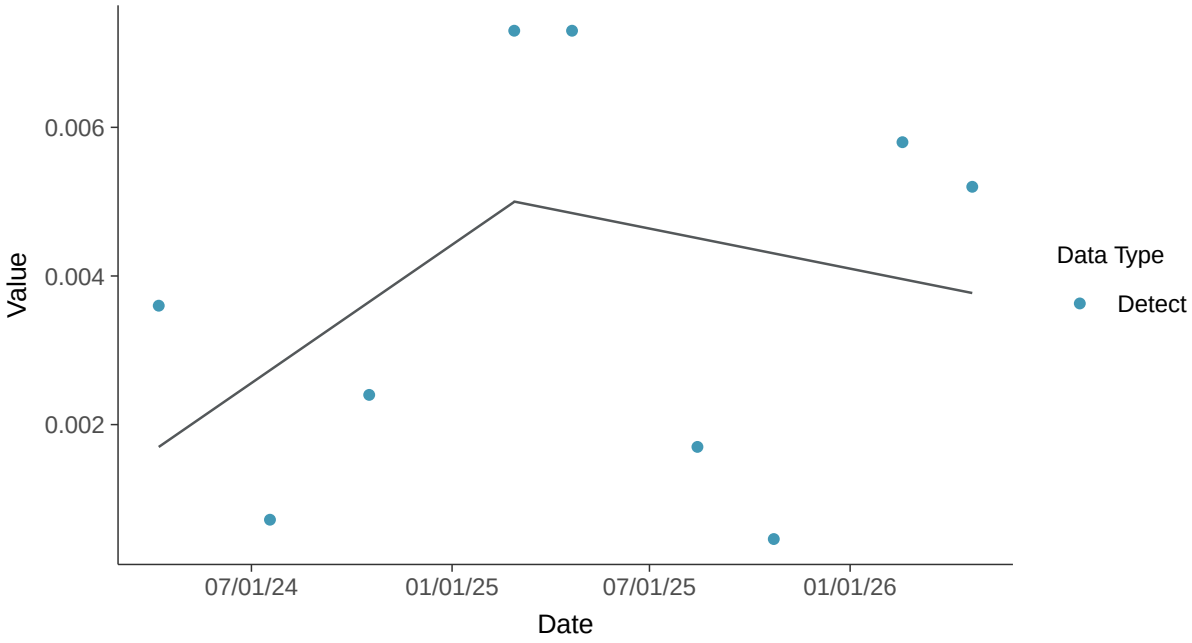
Trend Regression: Lognormal MLE

Nickel, MW-28 (mg/L)



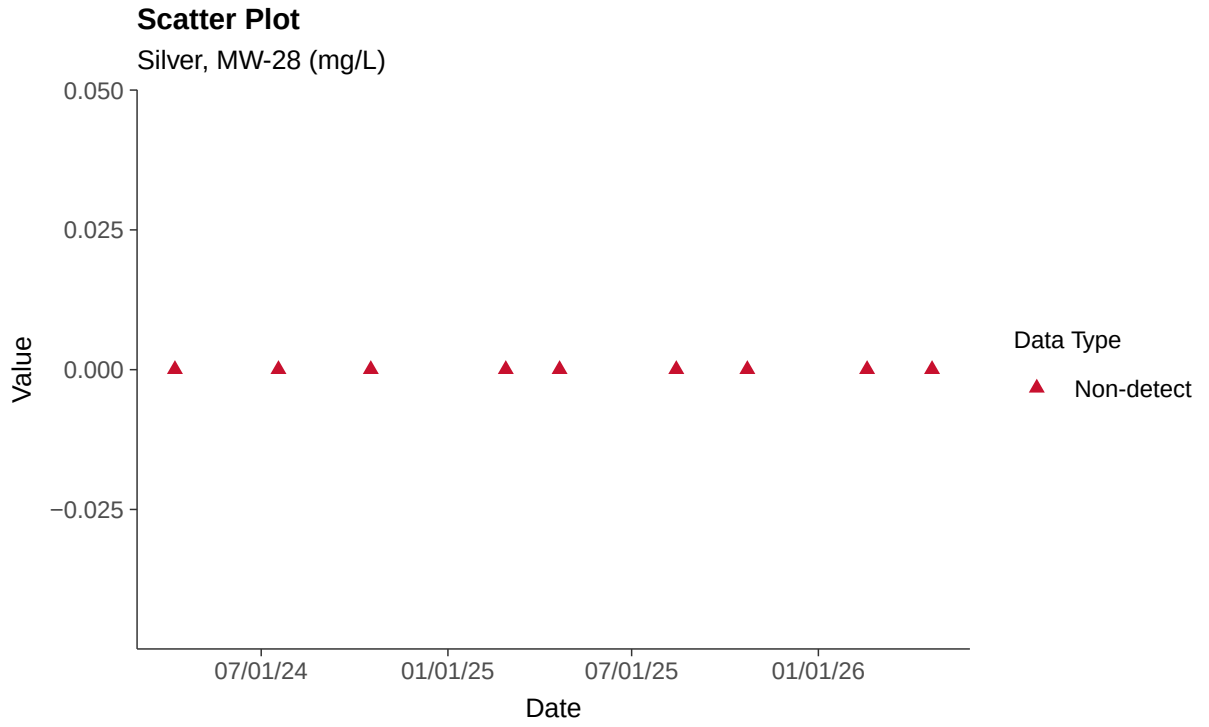
Trend Regression: Piecewise Linear-Linear

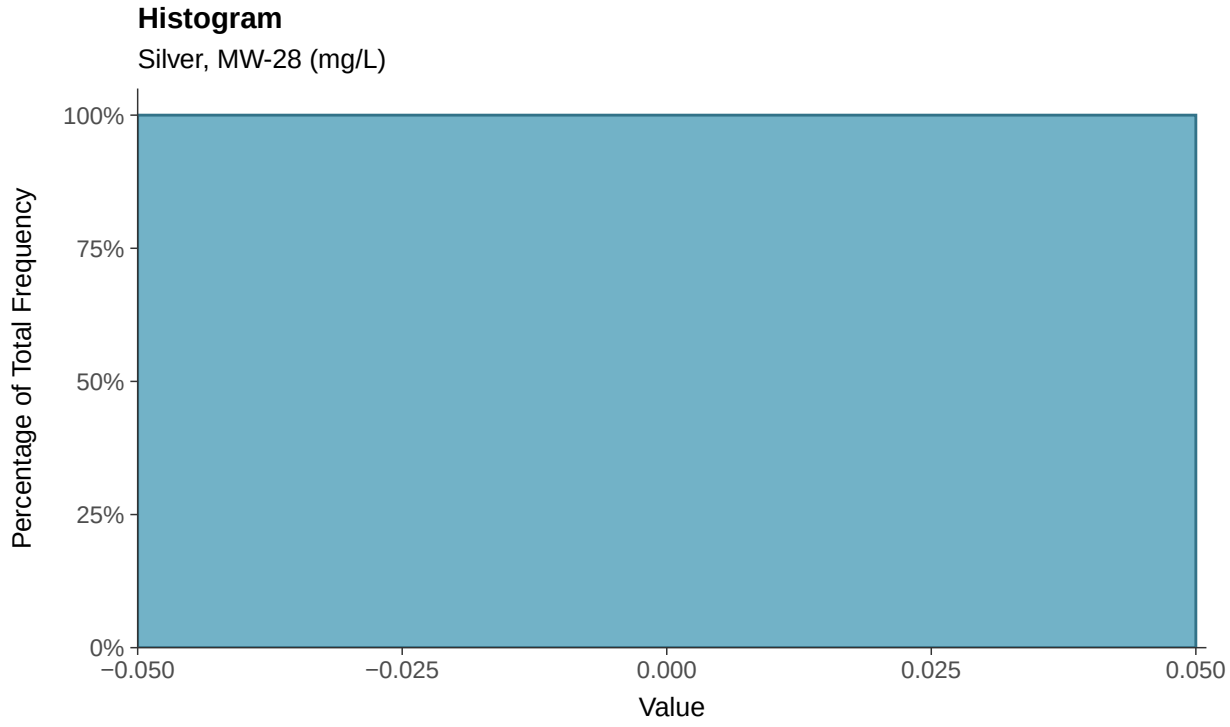
Nickel, MW-28 (mg/L)



Part 115: Silver, MW-28

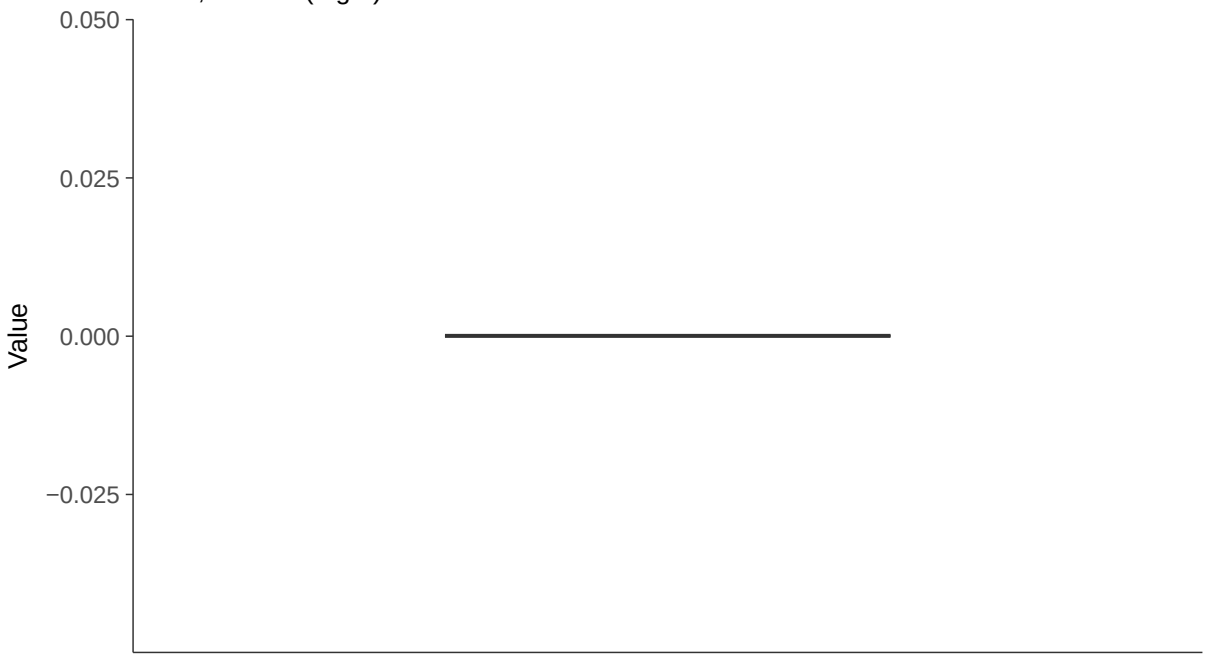
ID: 38_1_5_123





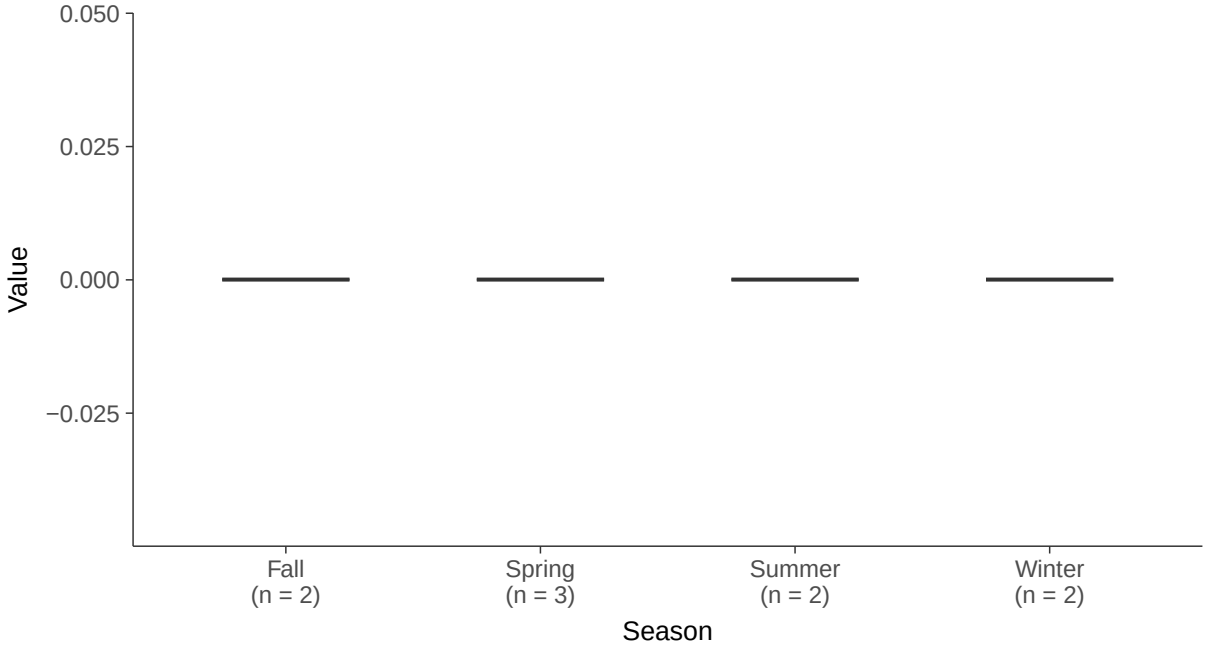
Boxplot

Silver, MW-28 (mg/L)



Boxplot by Season

Silver, MW-28 (mg/L)

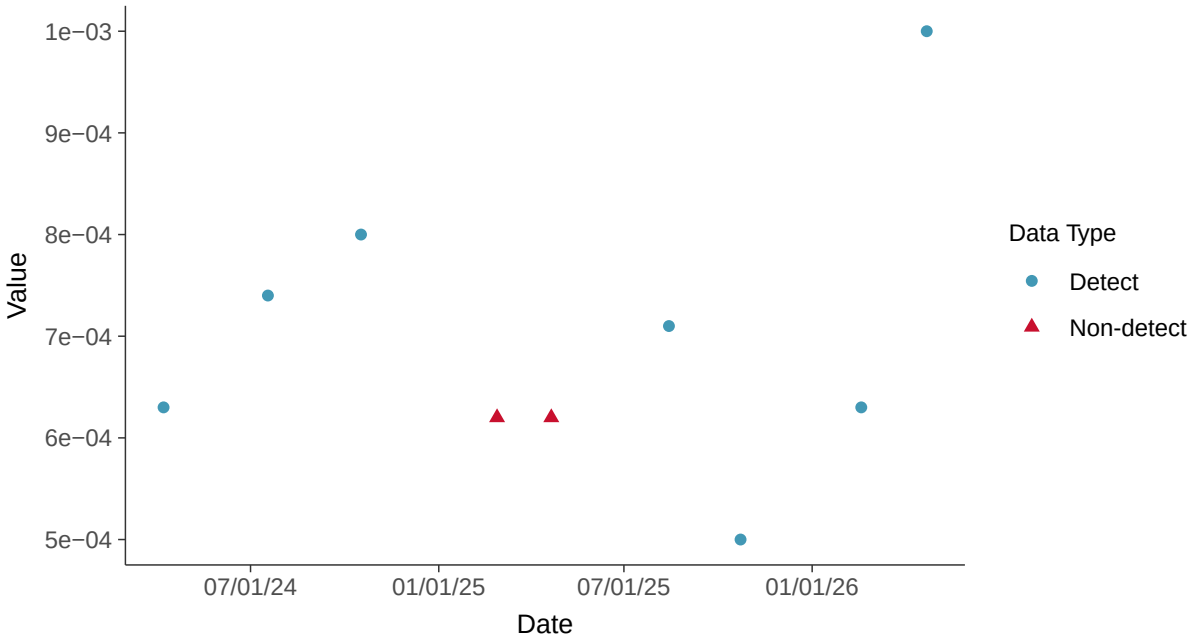


Part 115: Vanadium, MW-28

ID: 38_1_5_128

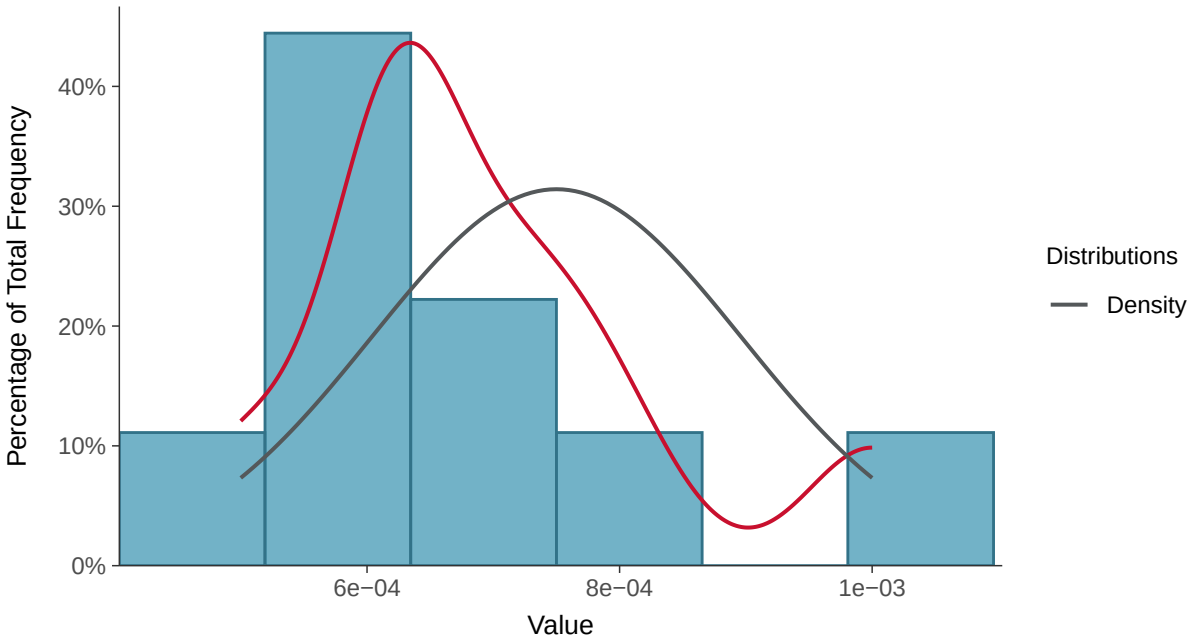
Scatter Plot

Vanadium, MW-28 (mg/L)



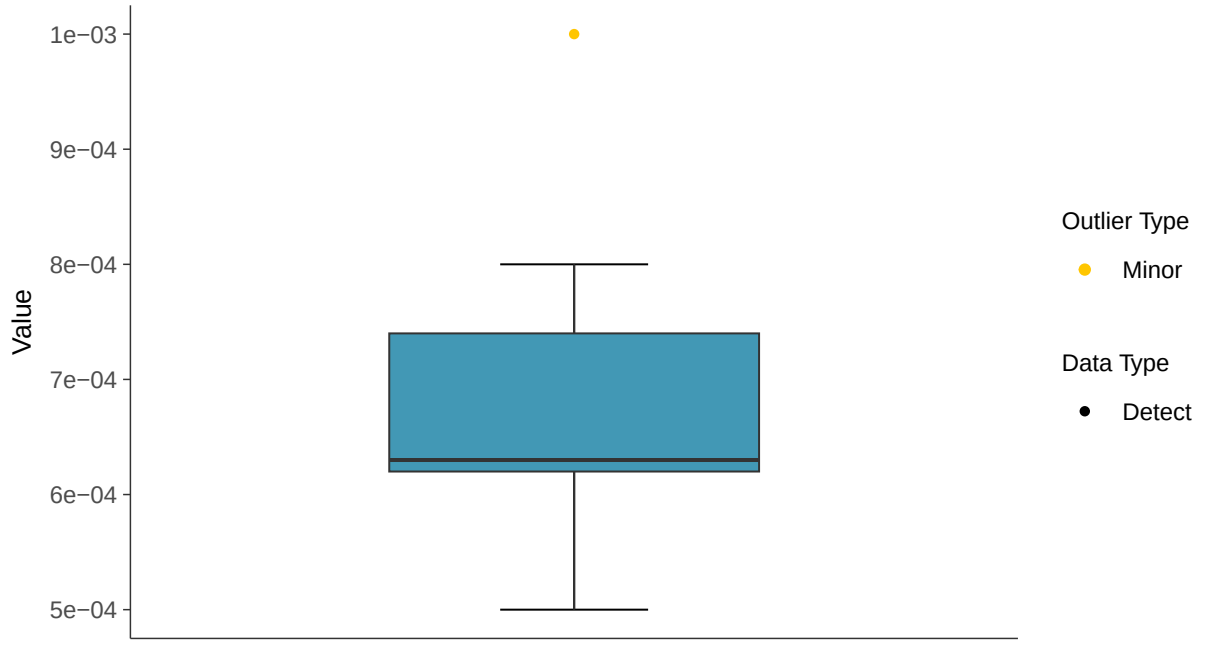
Histogram

Vanadium, MW-28 (mg/L)



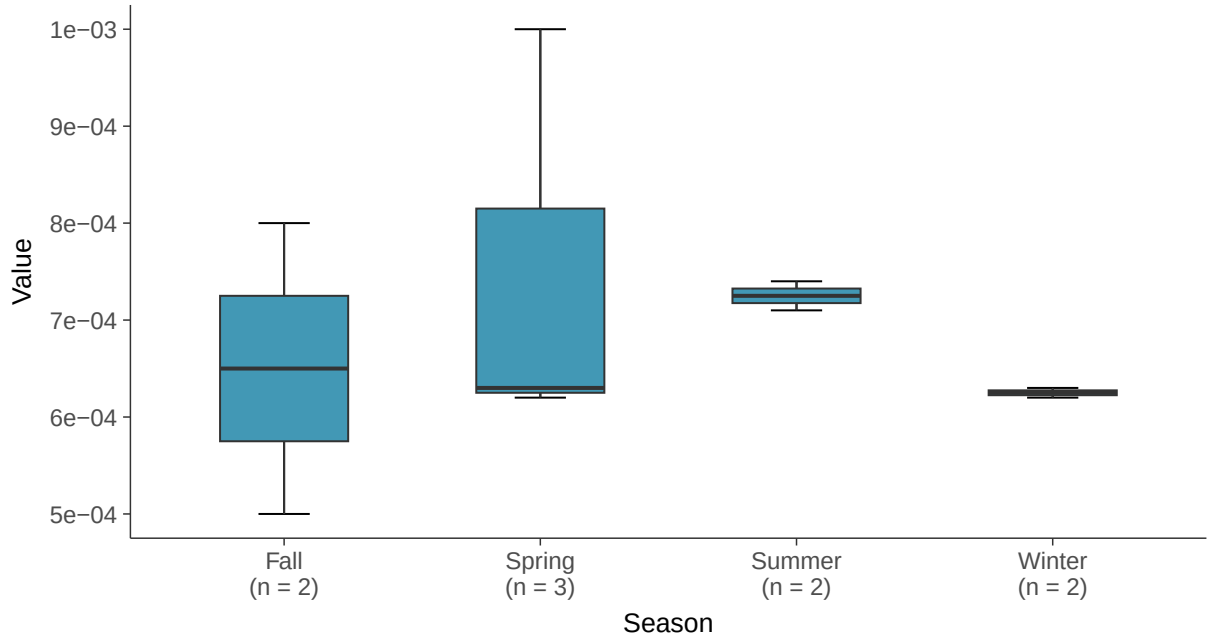
Boxplot

Vanadium, MW-28 (mg/L)



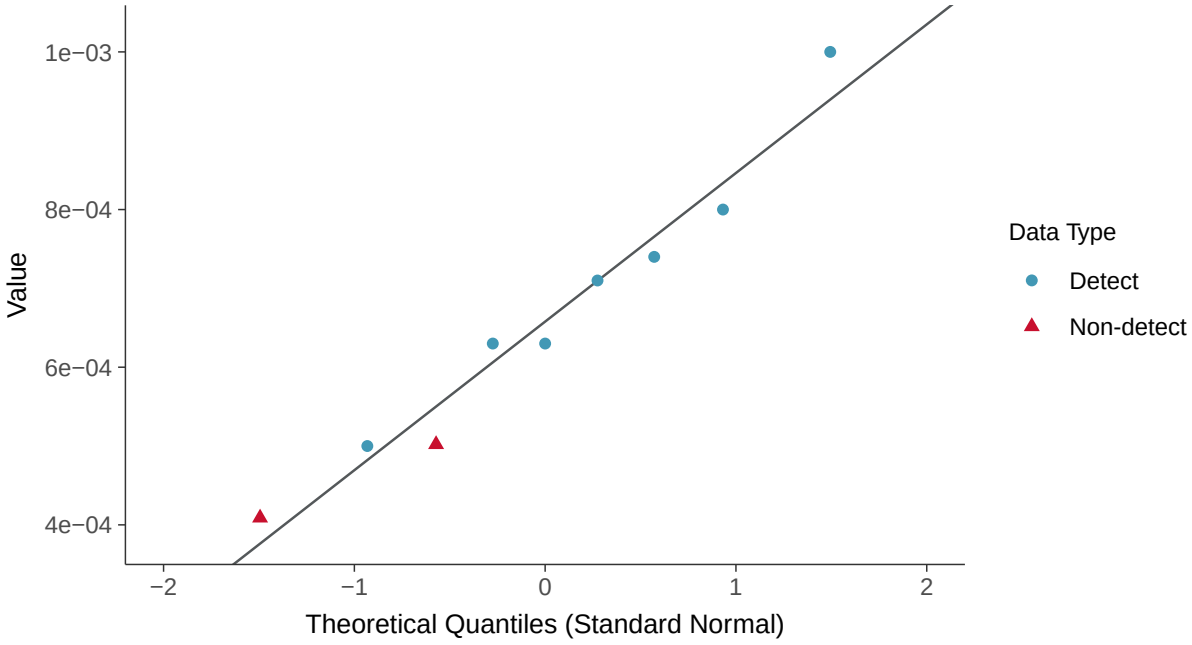
Boxplot by Season

Vanadium, MW-28 (mg/L)



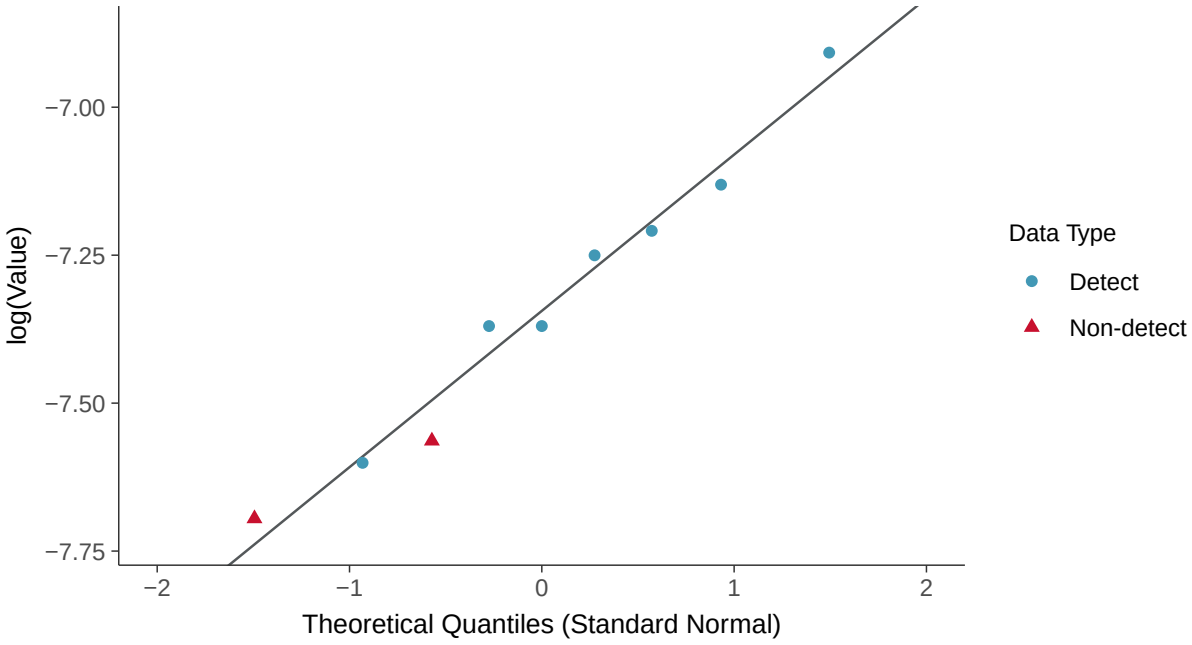
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-28 (mg/L)



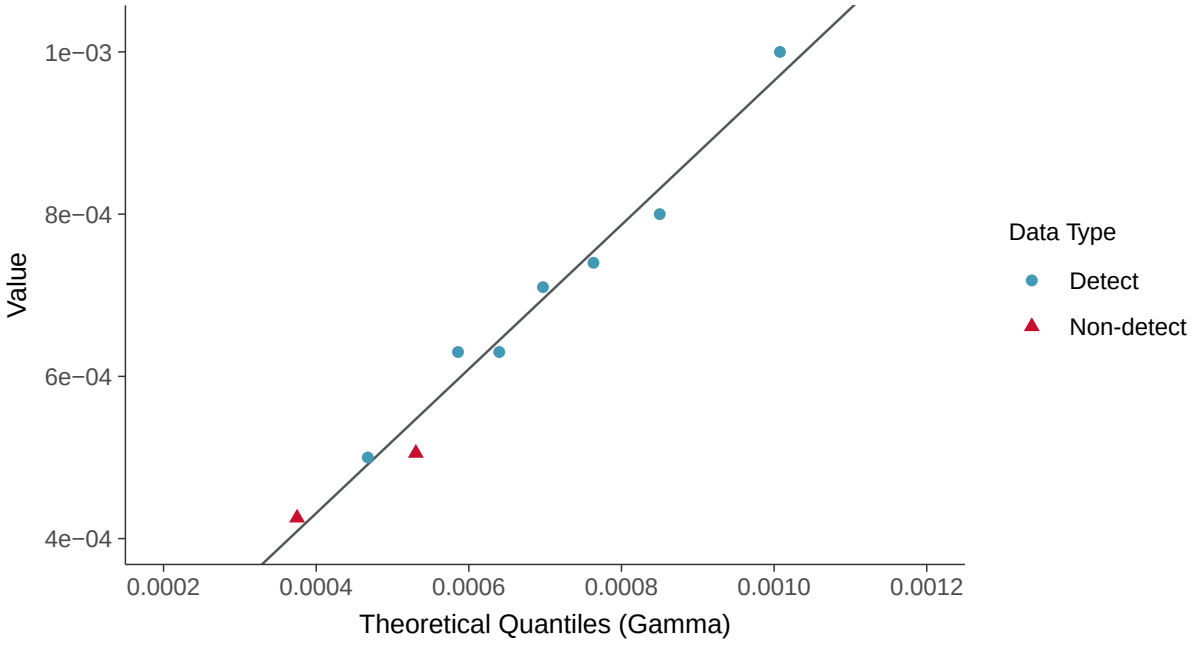
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-28 (mg/L)



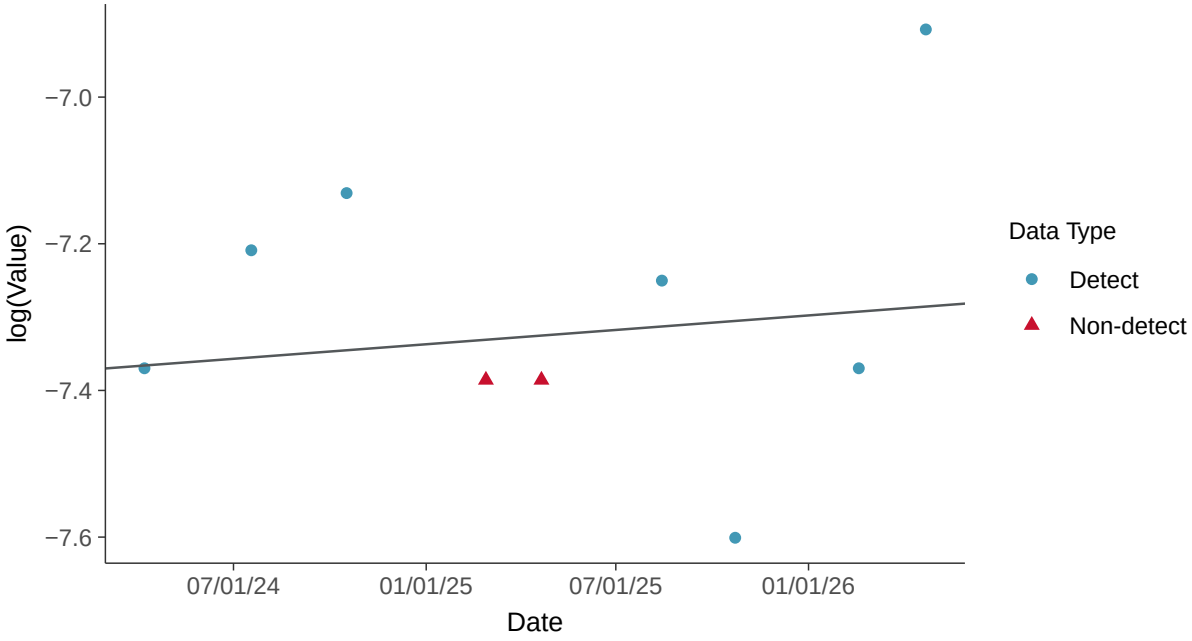
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-28 (mg/L)



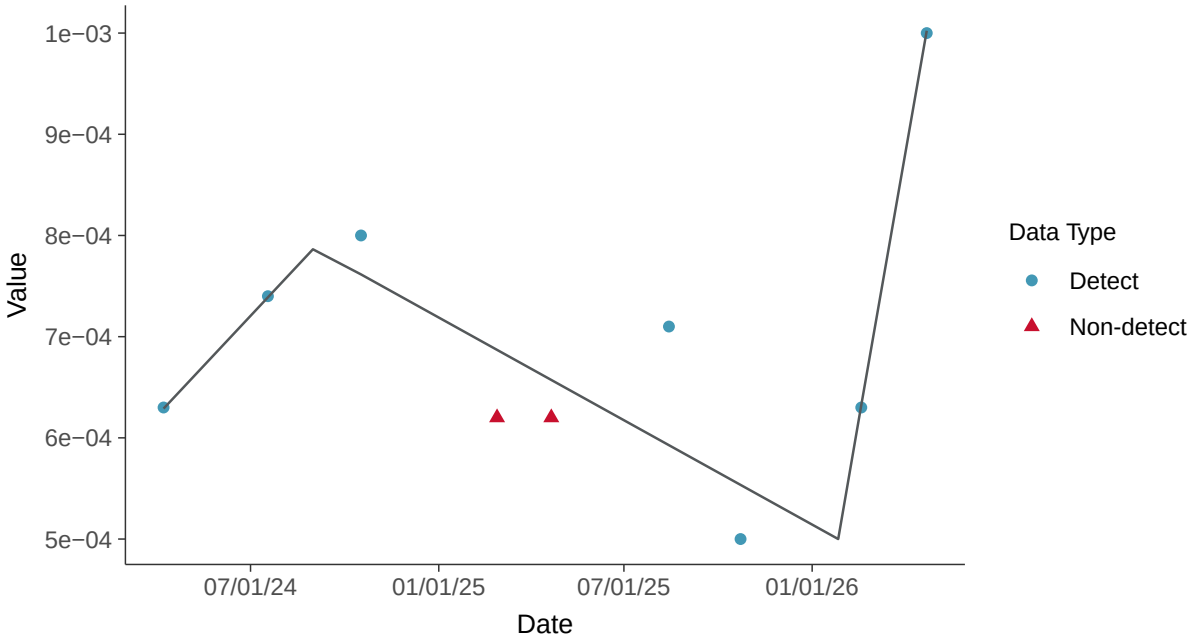
Trend Regression: Lognormal MLE

Vanadium, MW-28 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-28 (mg/L)

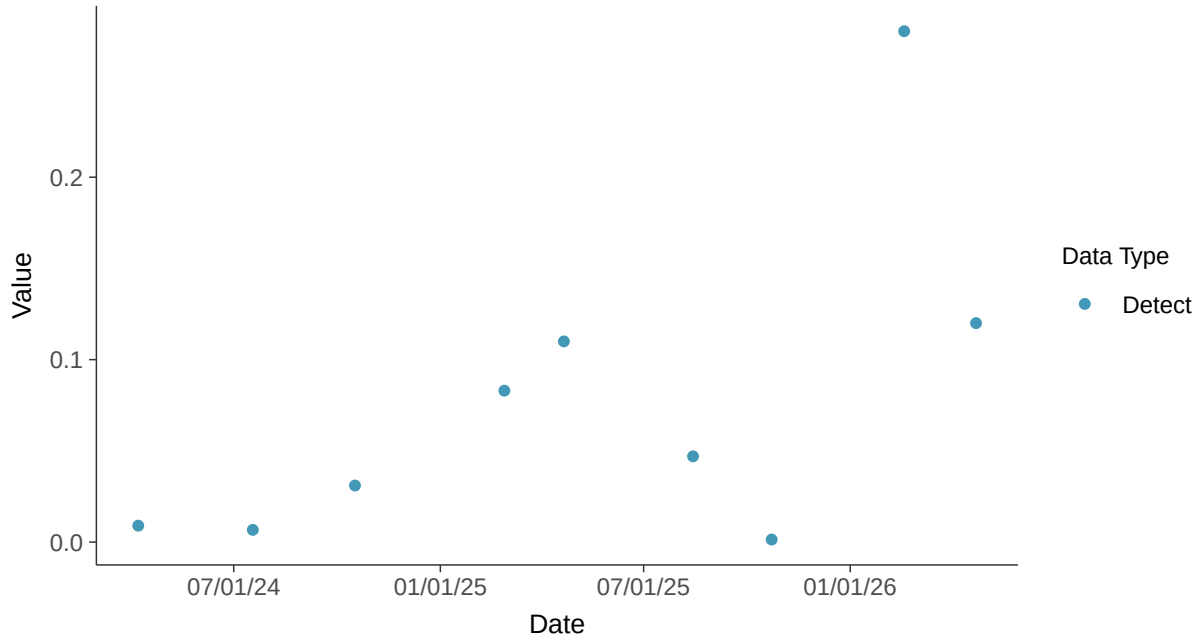


Part 115: Zinc, MW-28

ID: 38_1_5_129

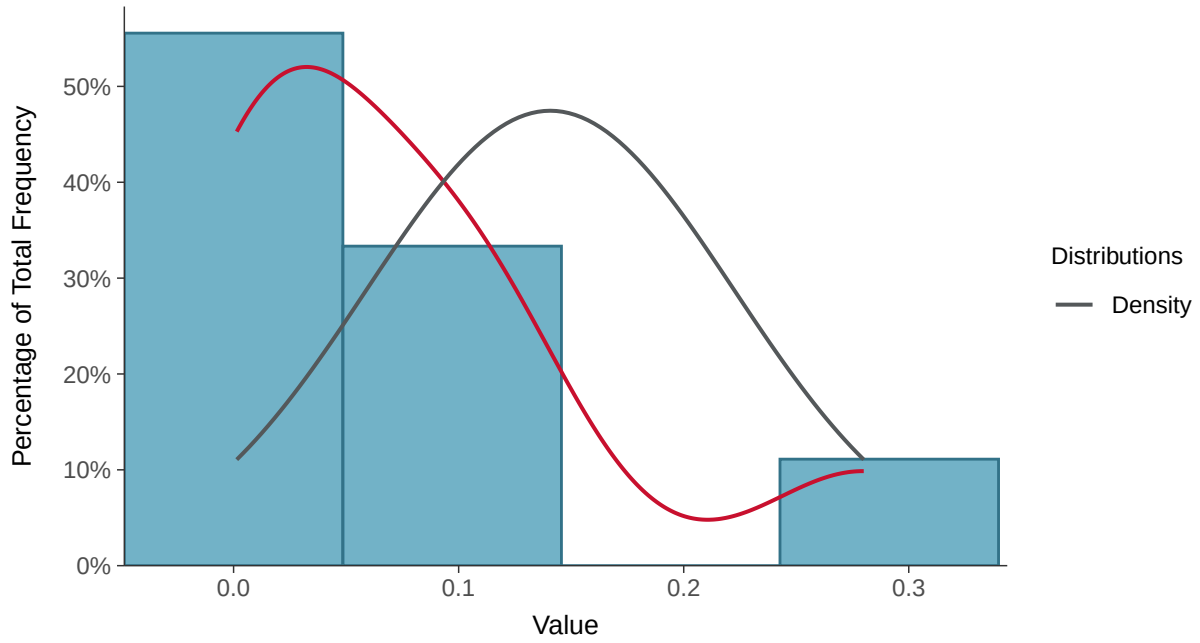
Scatter Plot

Zinc, MW-28 (mg/L)



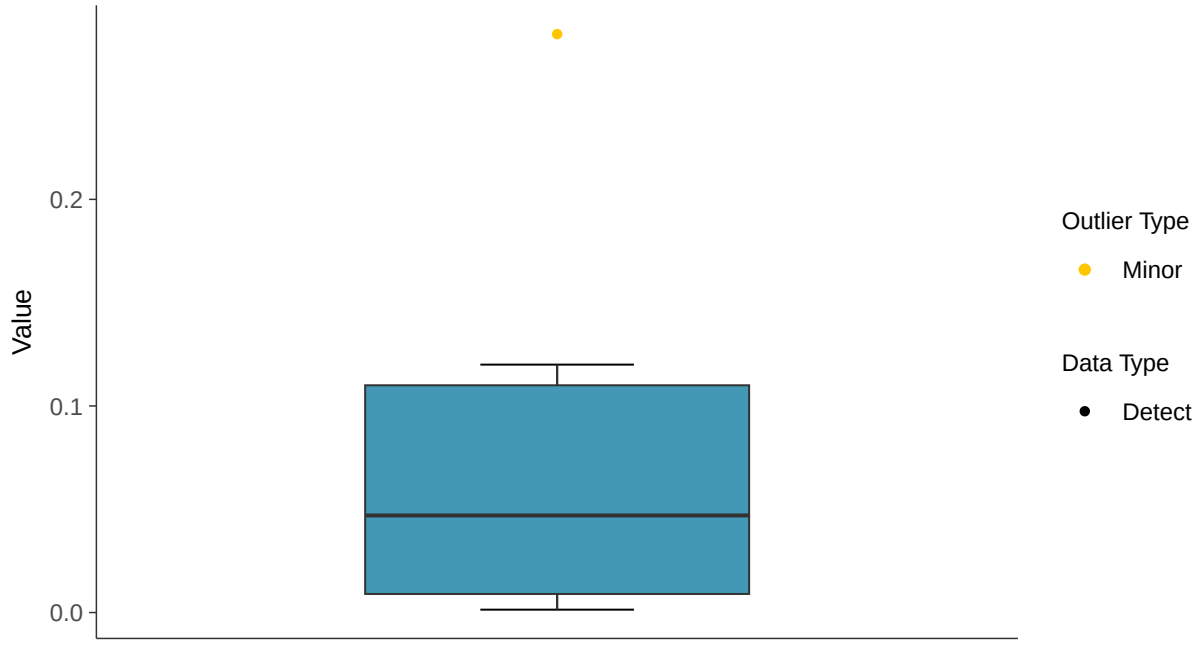
Histogram

Zinc, MW-28 (mg/L)



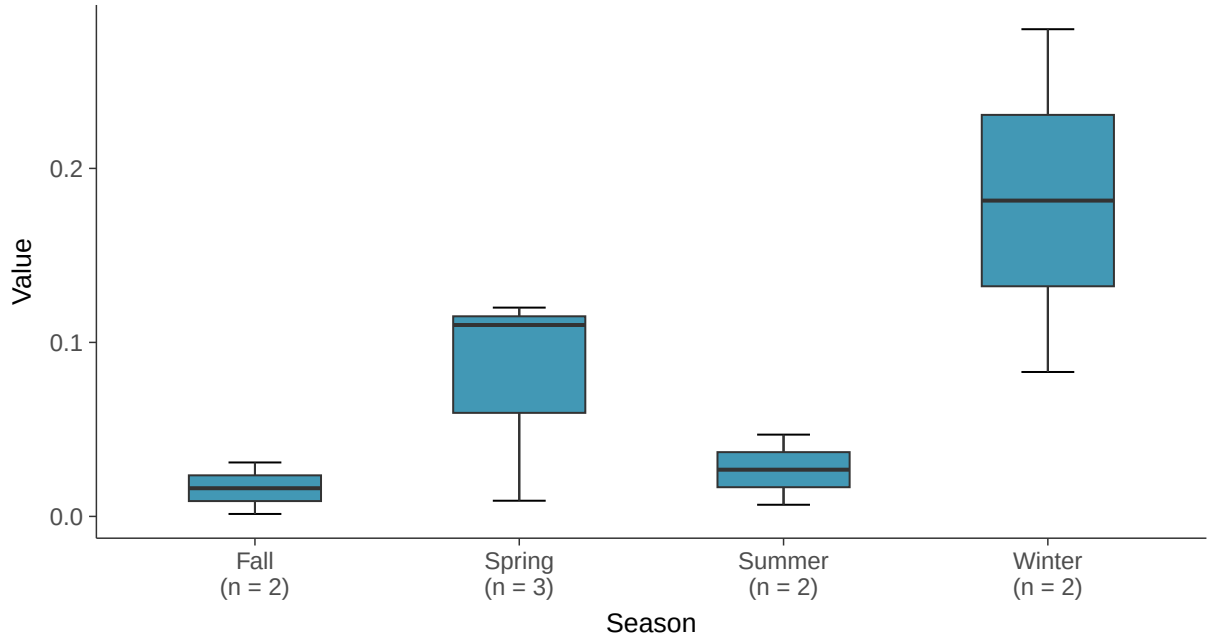
Boxplot

Zinc, MW-28 (mg/L)



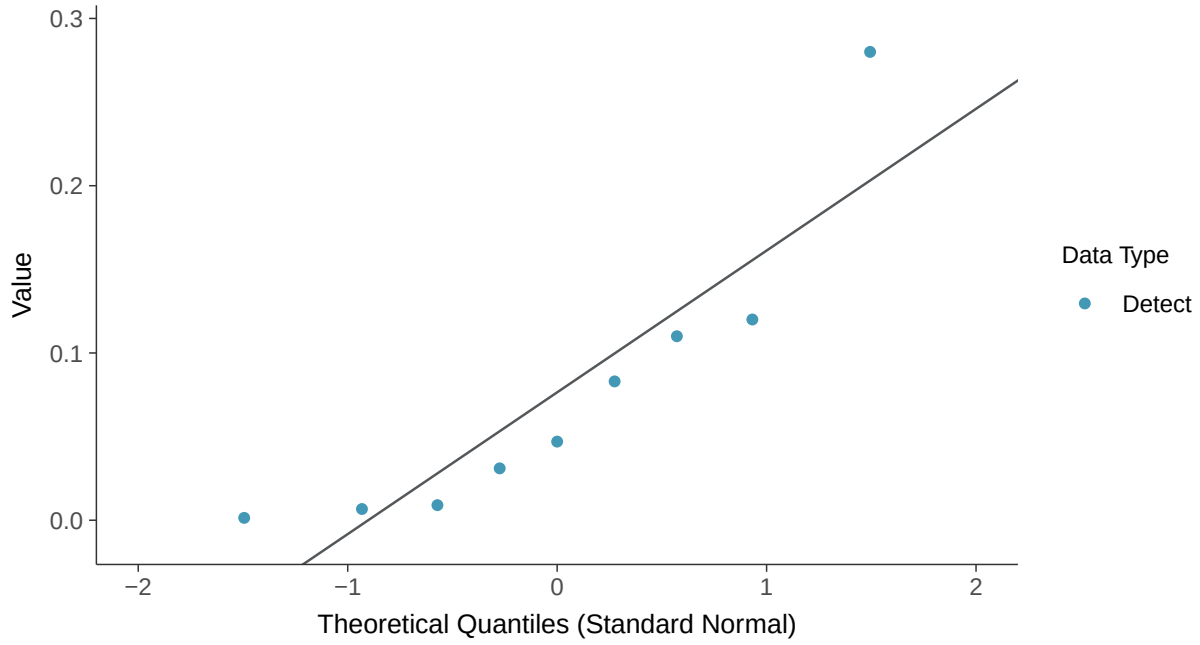
Boxplot by Season

Zinc, MW-28 (mg/L)



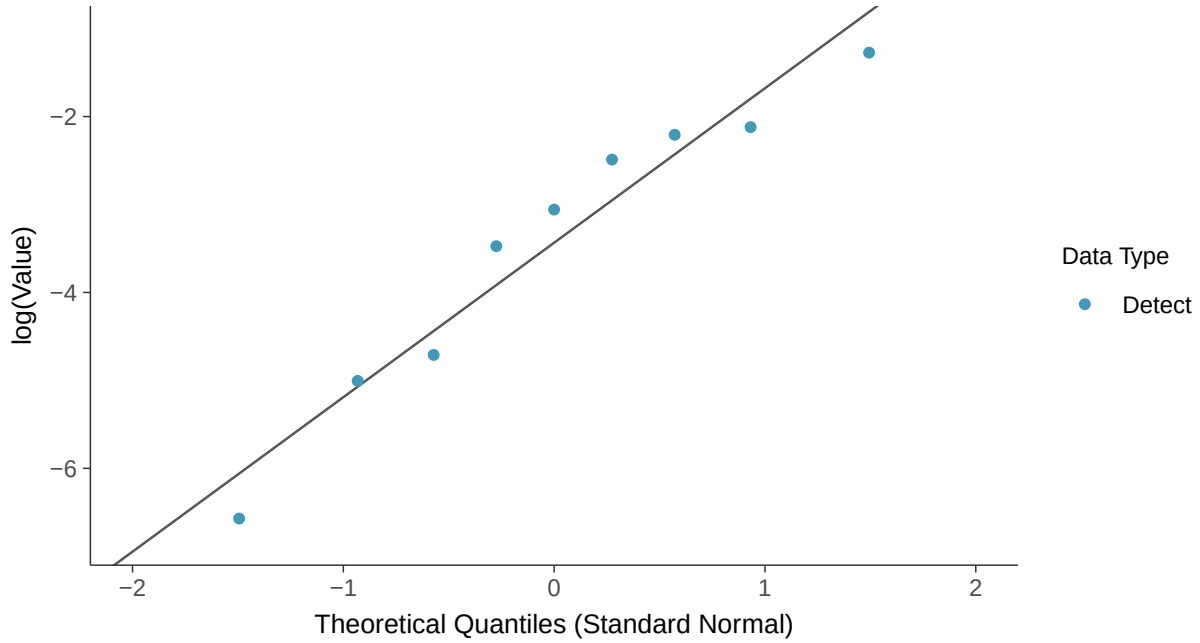
Normal Q-Q plot

Zinc, MW-28 (mg/L)



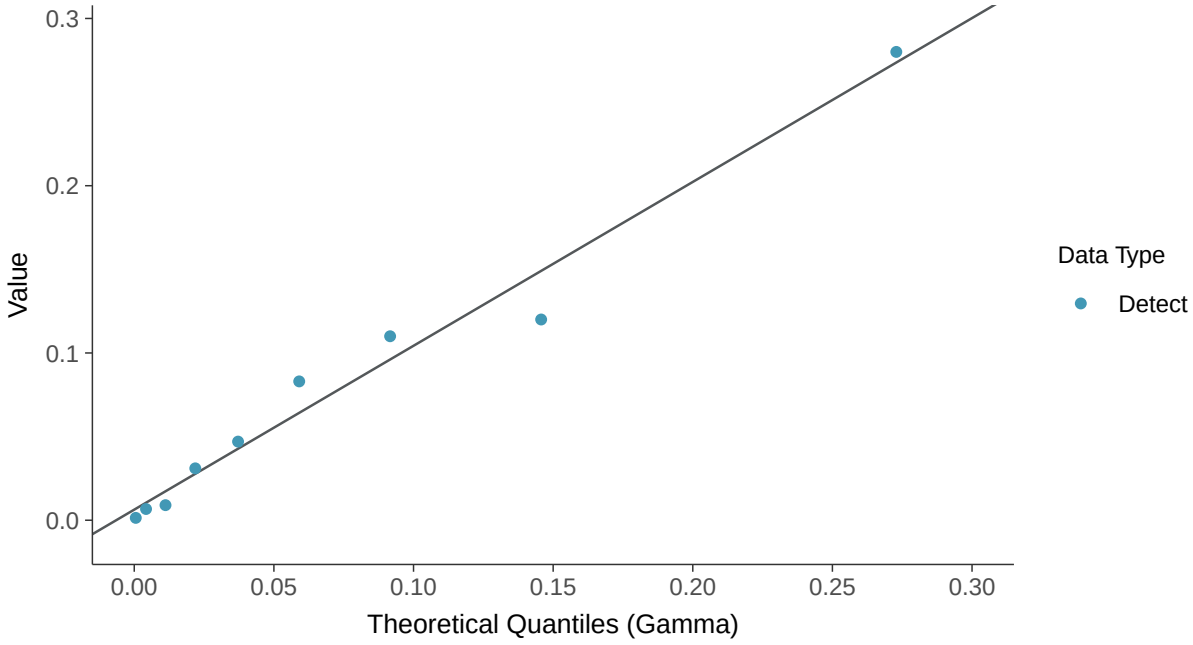
Lognormal Q-Q plot

Zinc, MW-28 (mg/L)



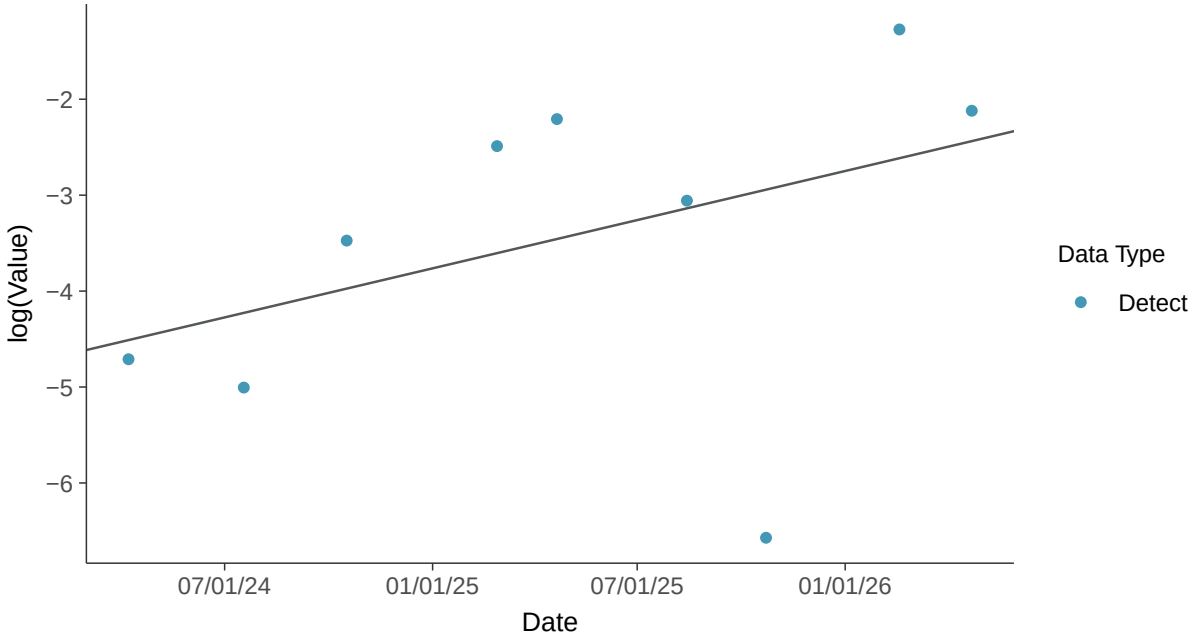
Gamma Q-Q plot

Zinc, MW-28 (mg/L)



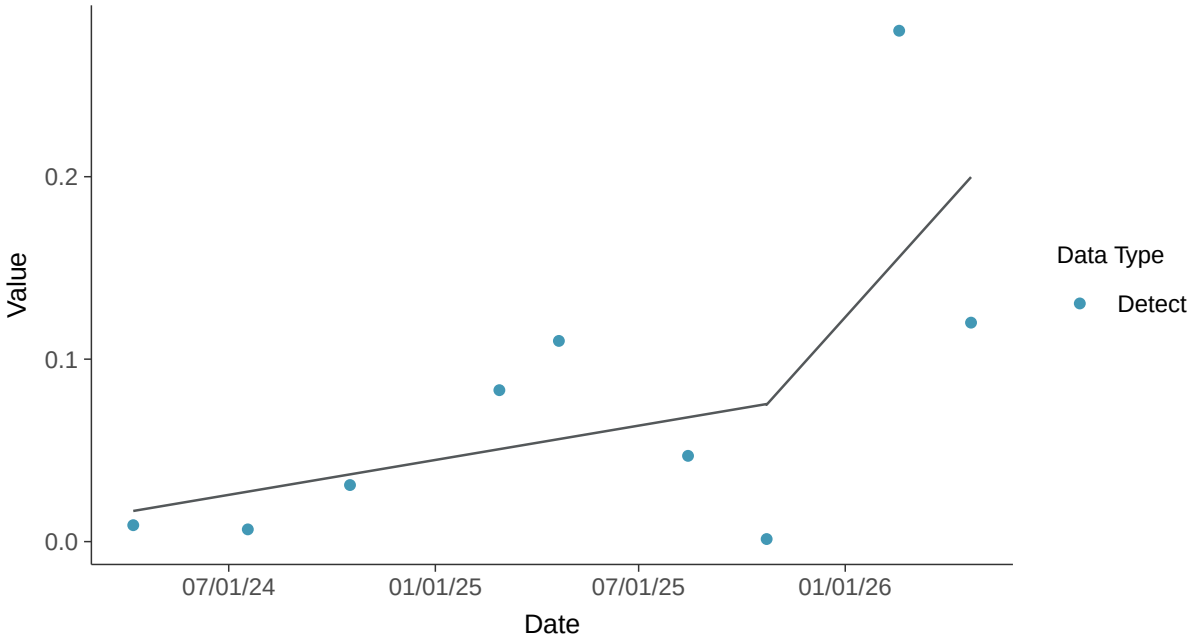
Trend Regression: Lognormal MLE

Zinc, MW-28 (mg/L)



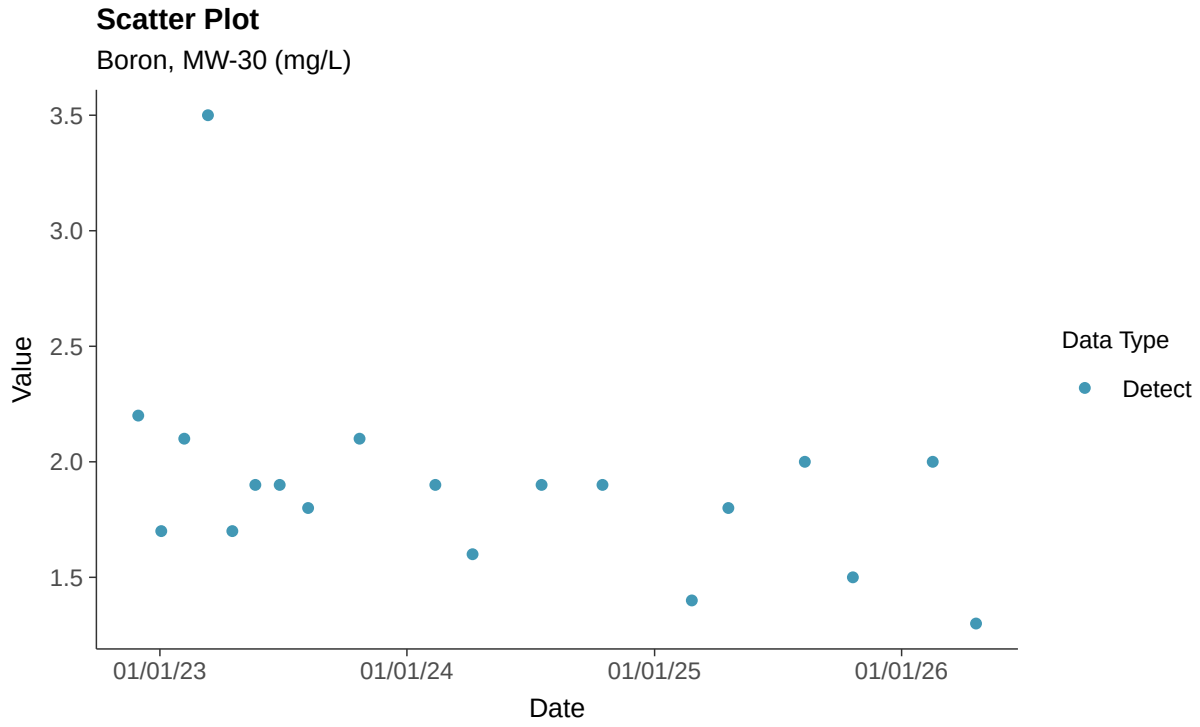
Trend Regression: Piecewise Linear-Linear

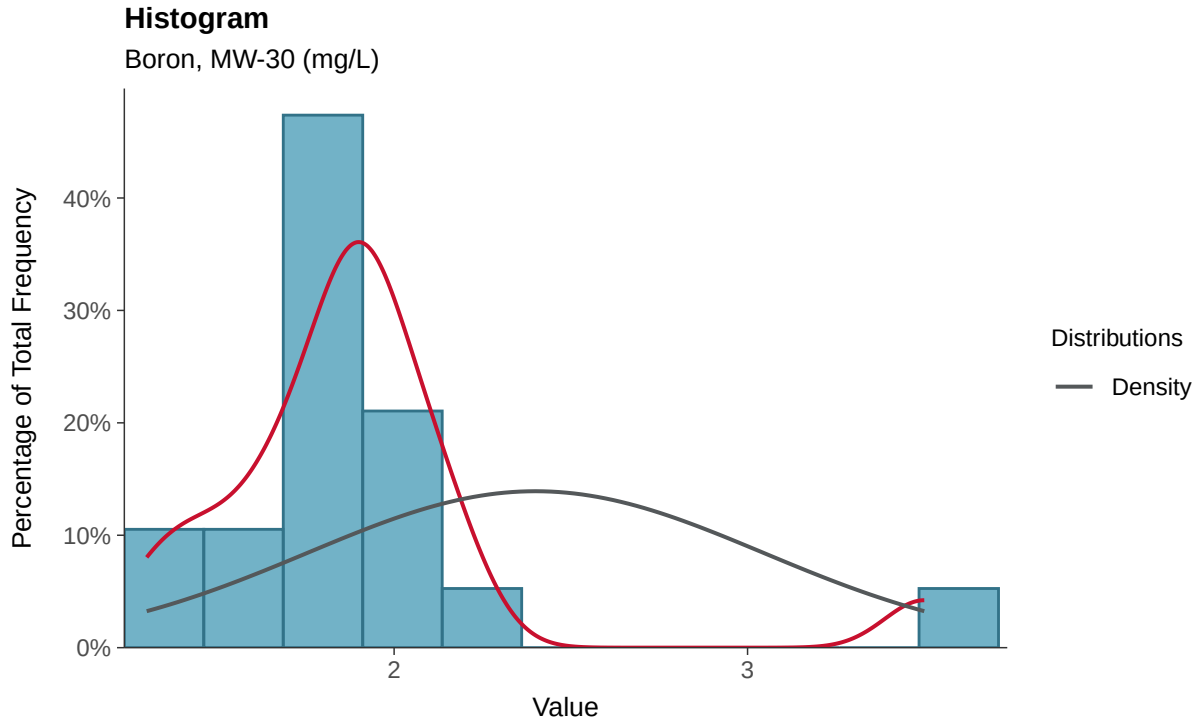
Zinc, MW-28 (mg/L)



Appendix III: Boron, MW-30

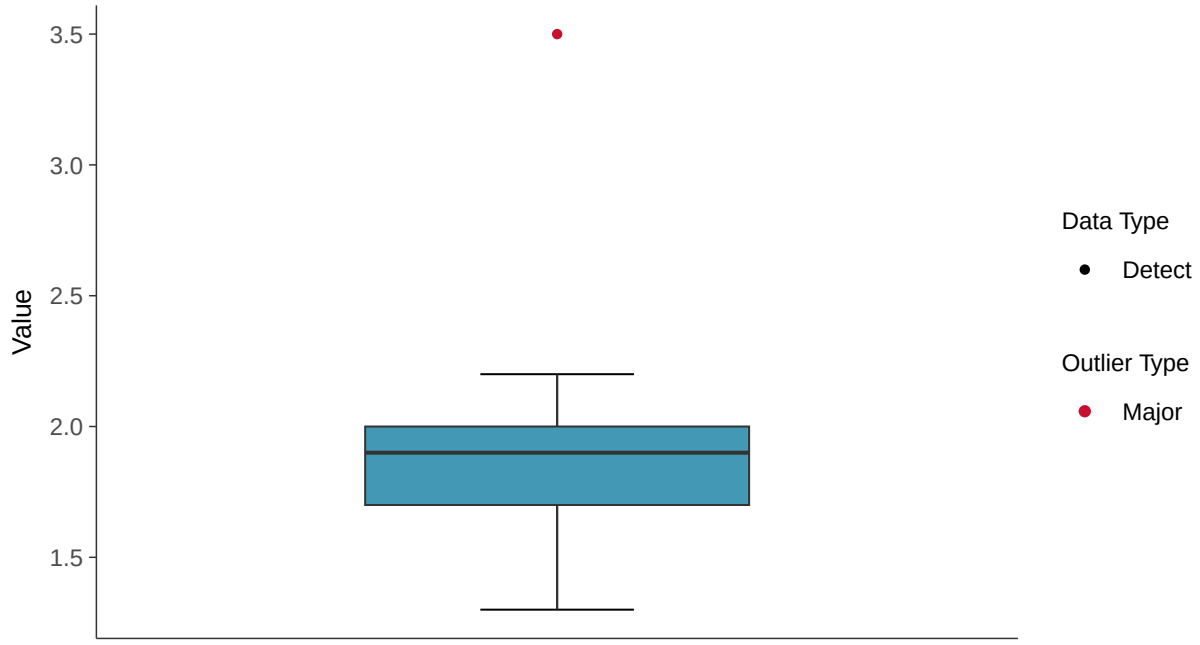
ID: 40_1_3_105





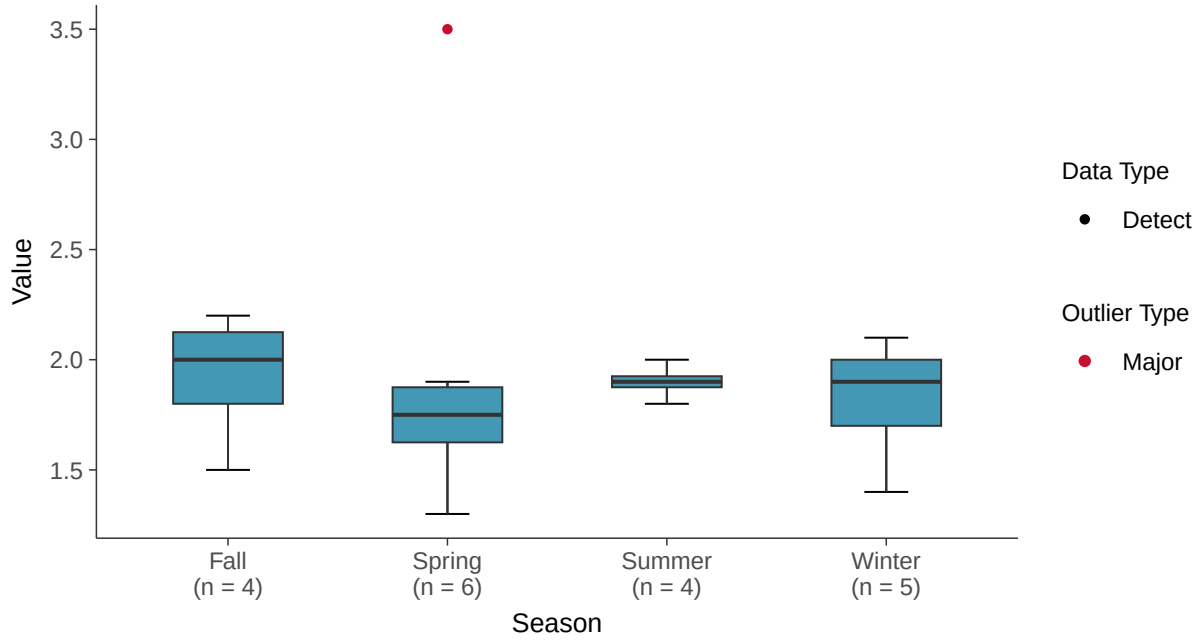
Boxplot

Boron, MW-30 (mg/L)



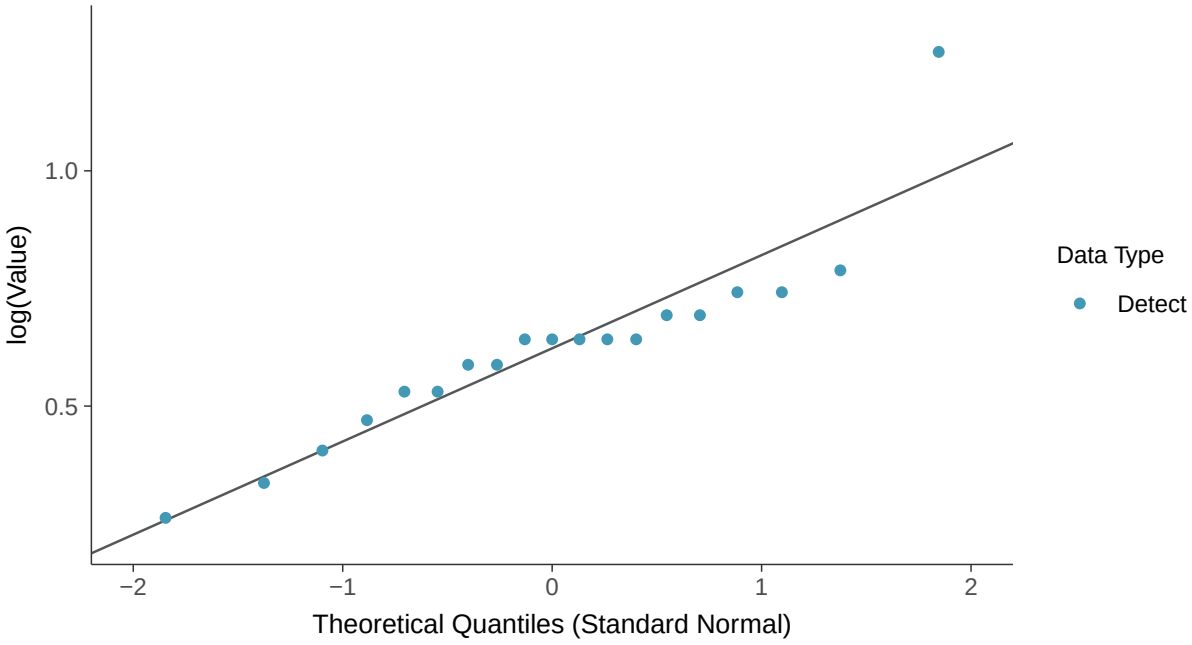
Boxplot by Season

Boron, MW-30 (mg/L)



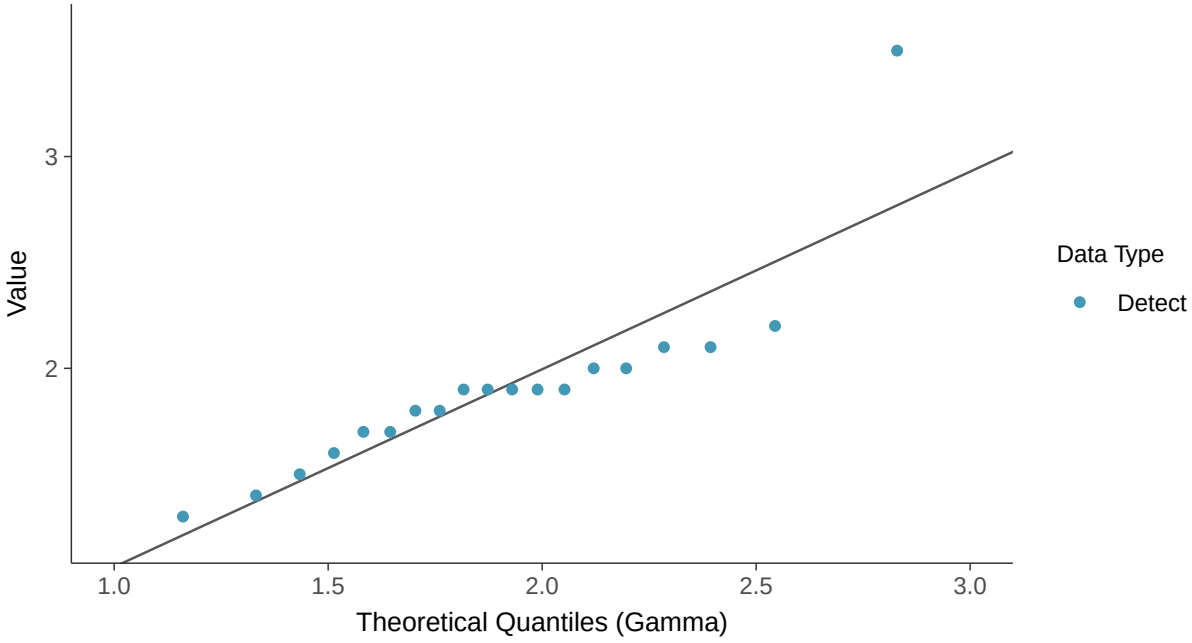
Lognormal Q-Q plot

Boron, MW-30 (mg/L)



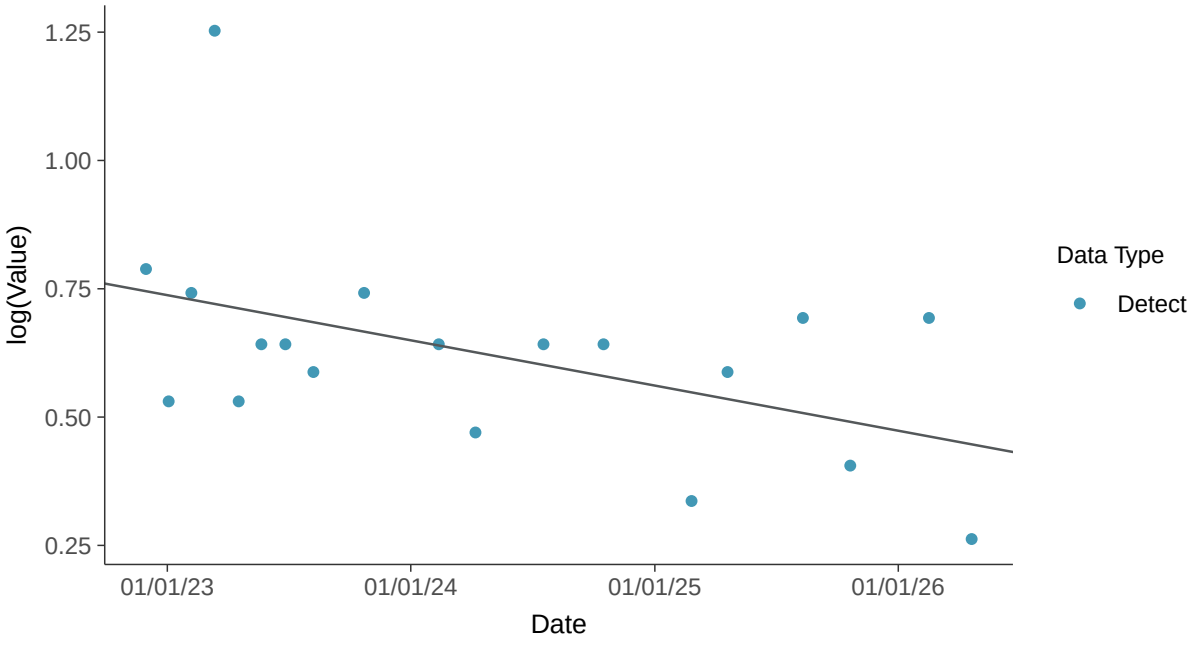
Gamma Q-Q plot

Boron, MW-30 (mg/L)



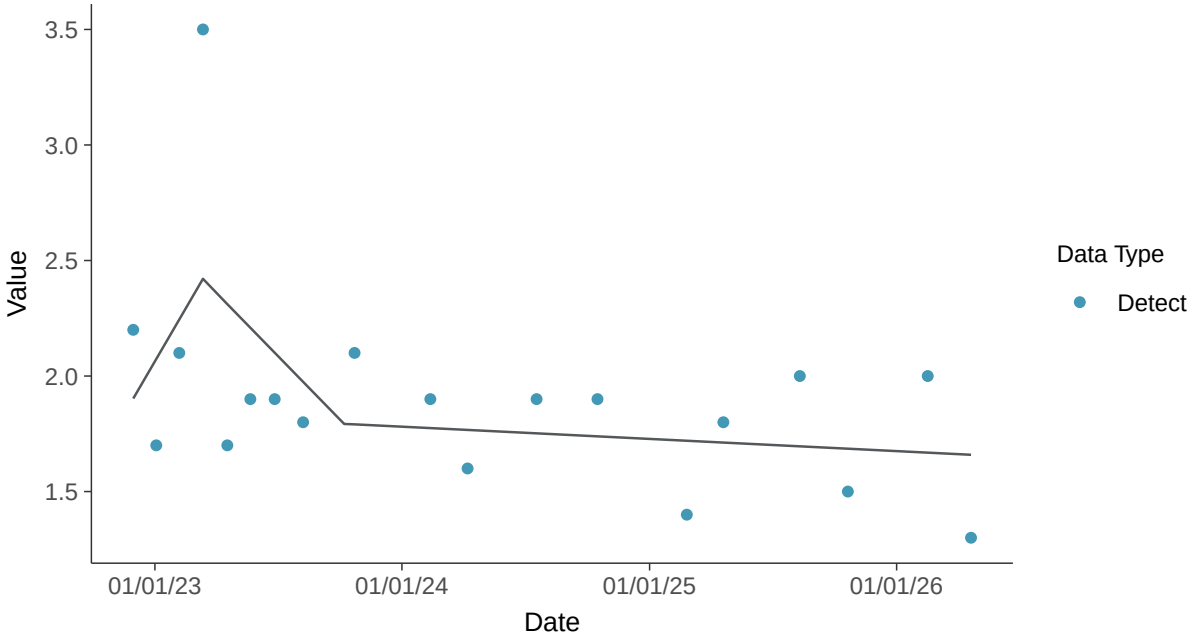
Trend Regression: Lognormal MLE

Boron, MW-30 (mg/L)



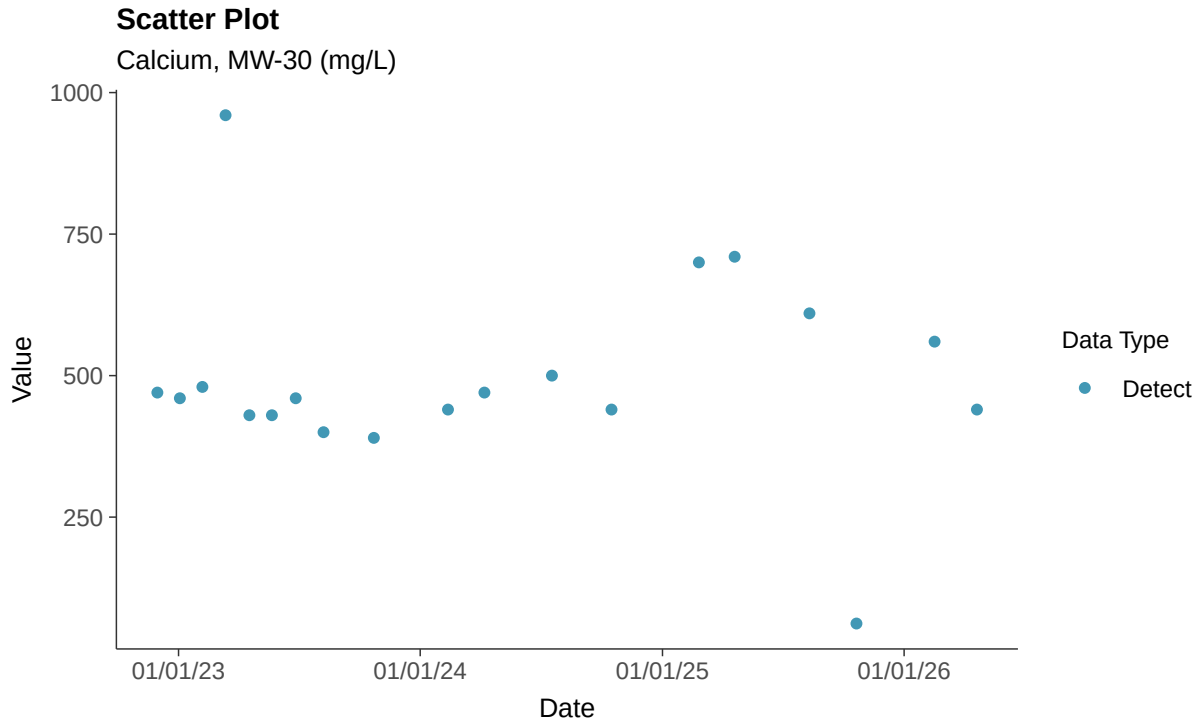
Trend Regression: Piecewise Linear-Linear-Linear

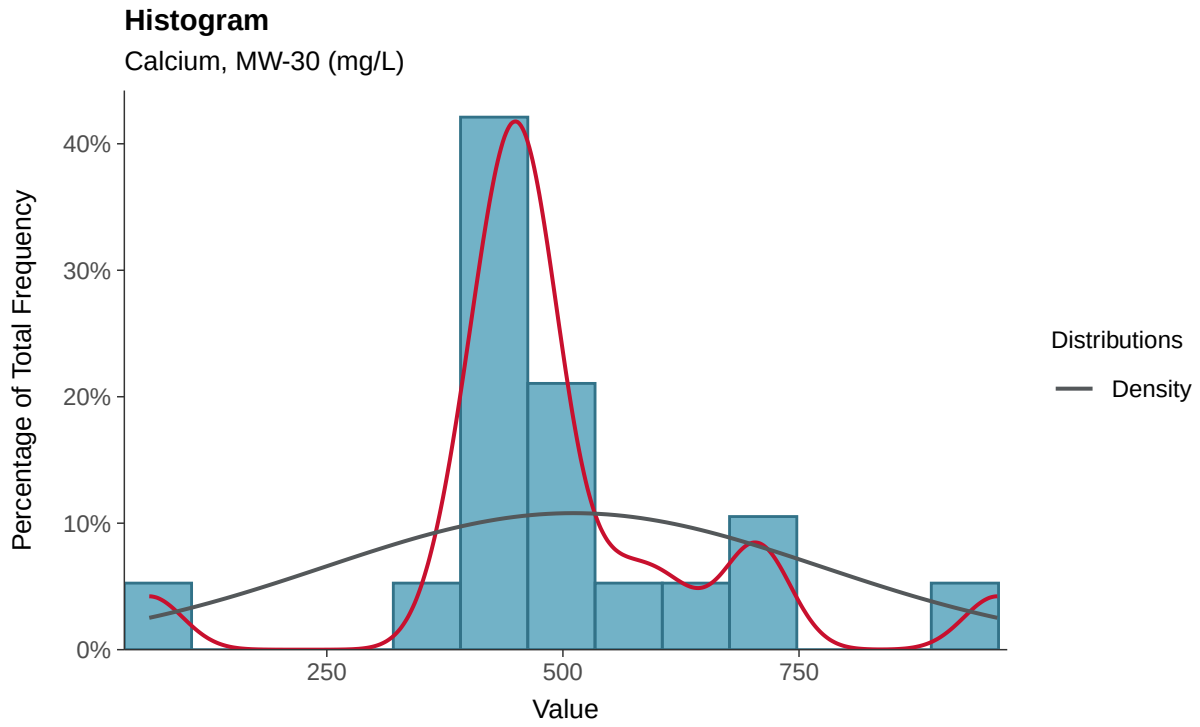
Boron, MW-30 (mg/L)



Appendix III: Calcium, MW-30

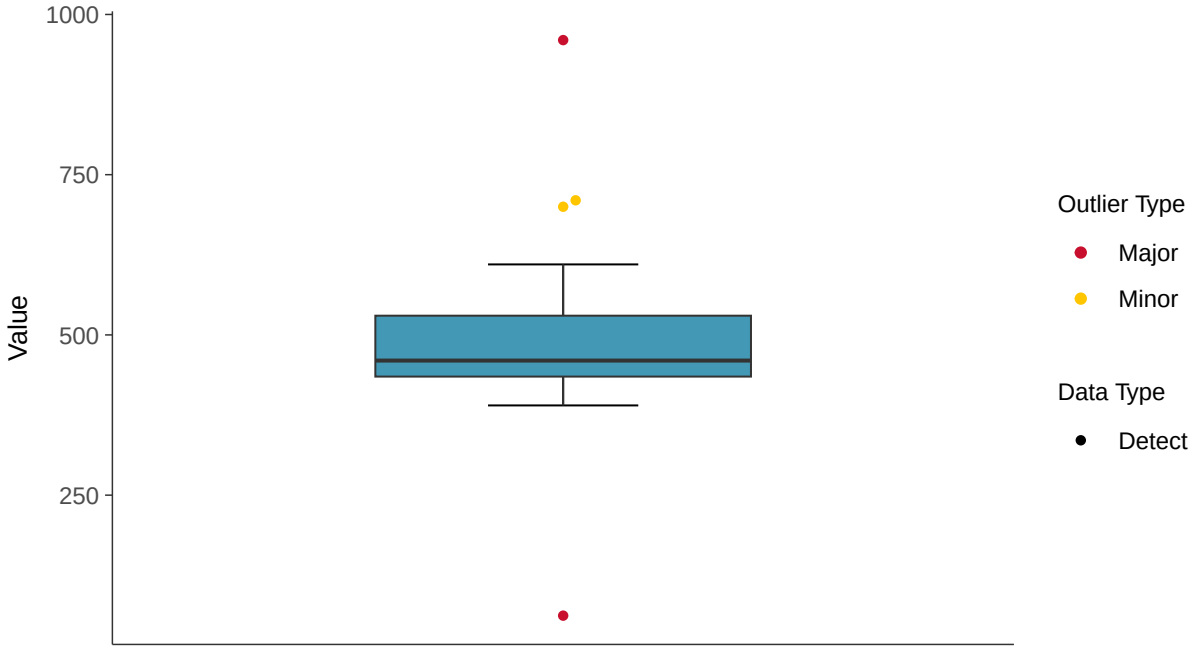
ID: 40_1_3_107





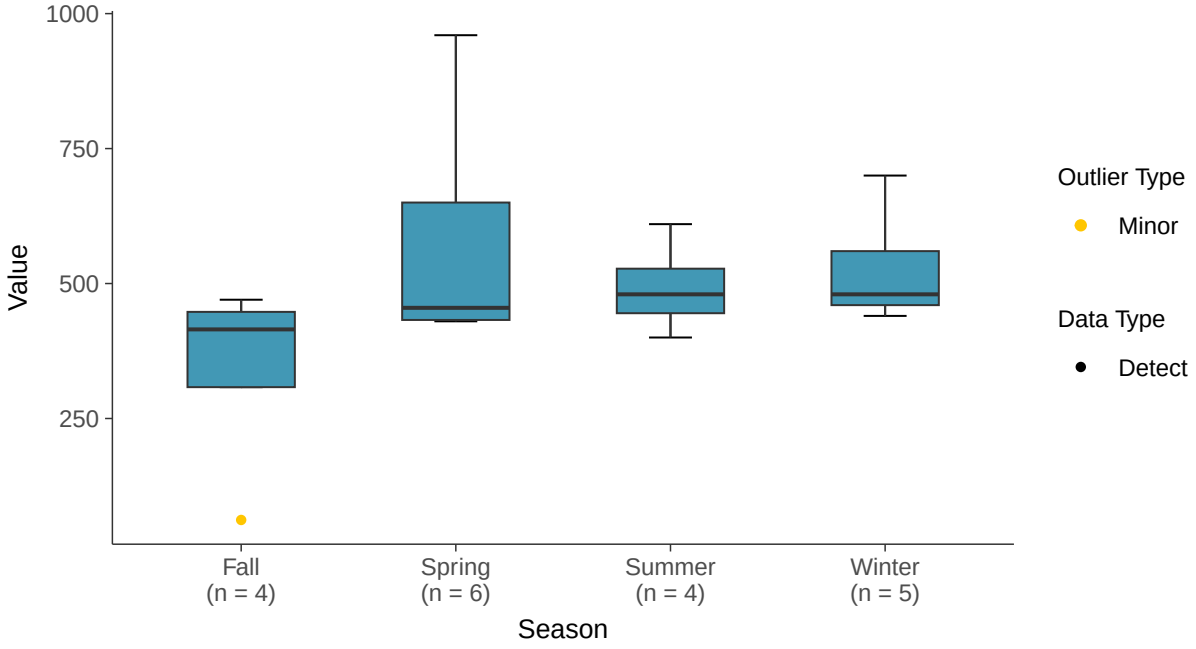
Boxplot

Calcium, MW-30 (mg/L)



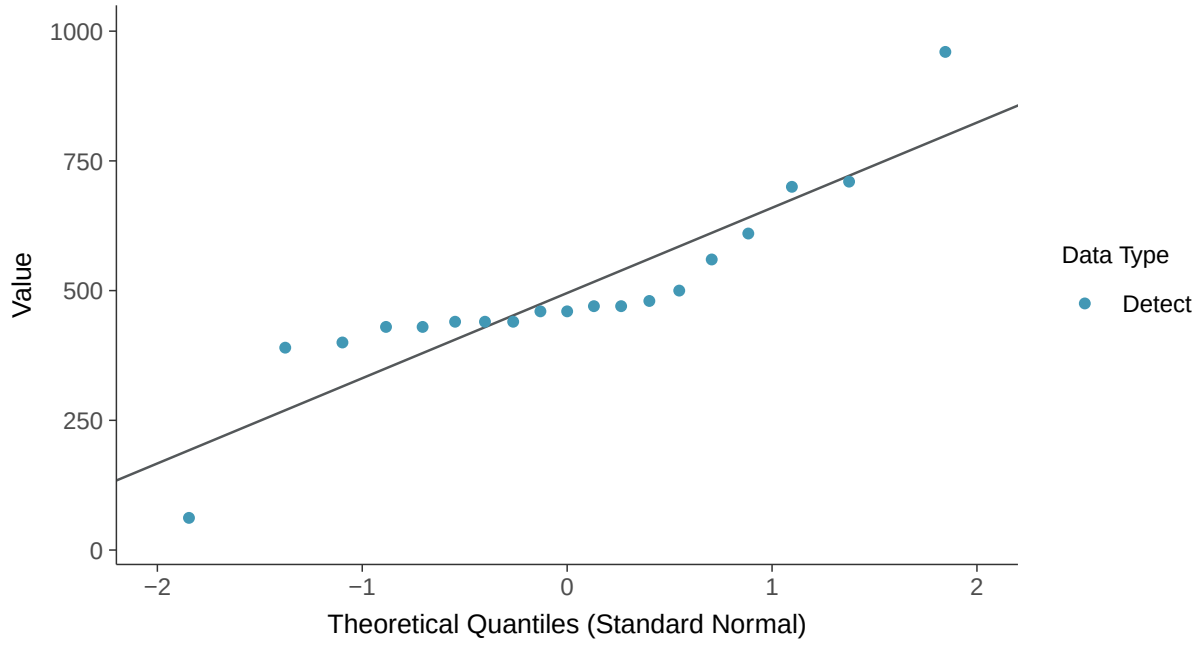
Boxplot by Season

Calcium, MW-30 (mg/L)



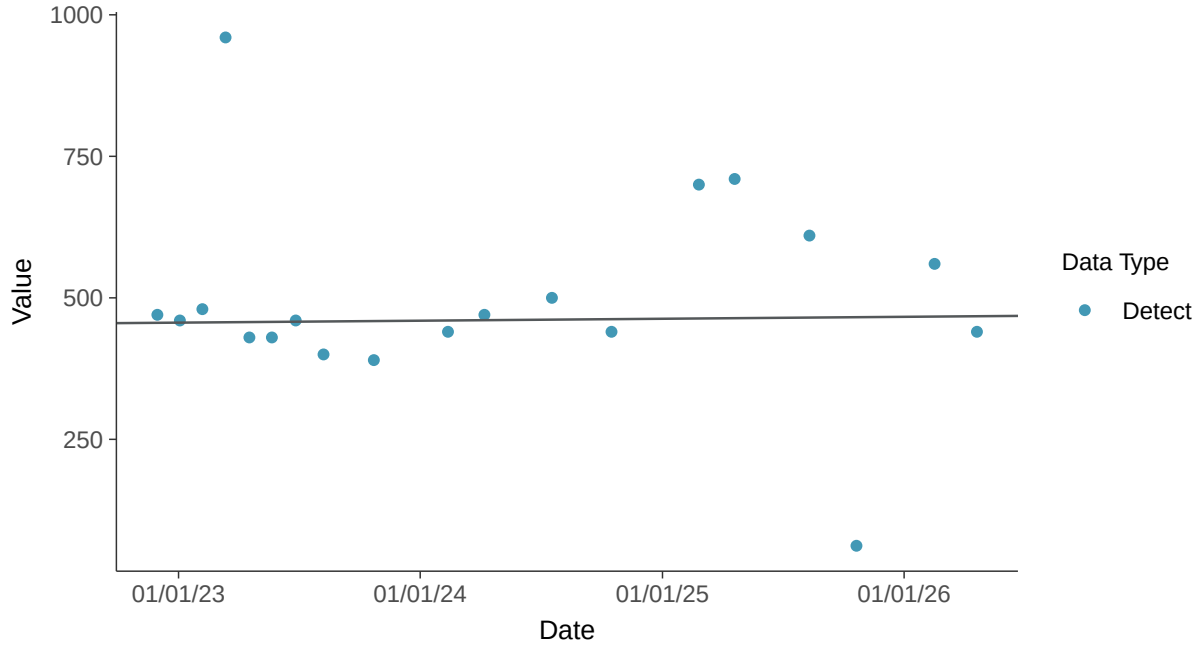
Normal Q-Q plot

Calcium, MW-30 (mg/L)



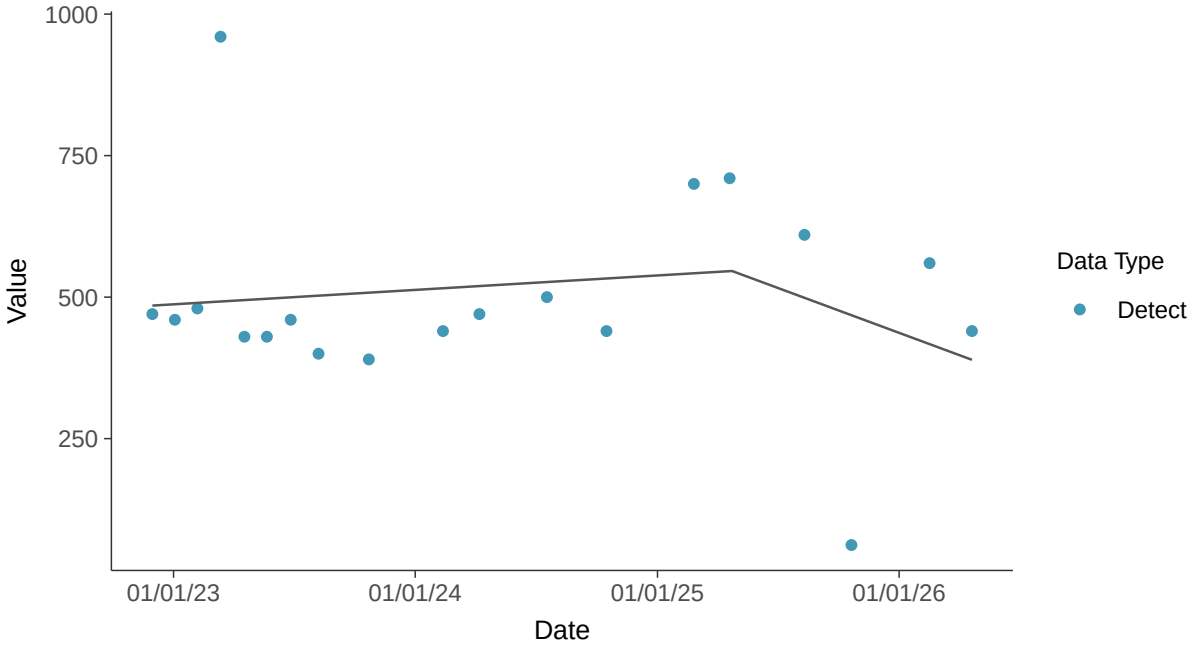
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Calcium, MW-30 (mg/L)



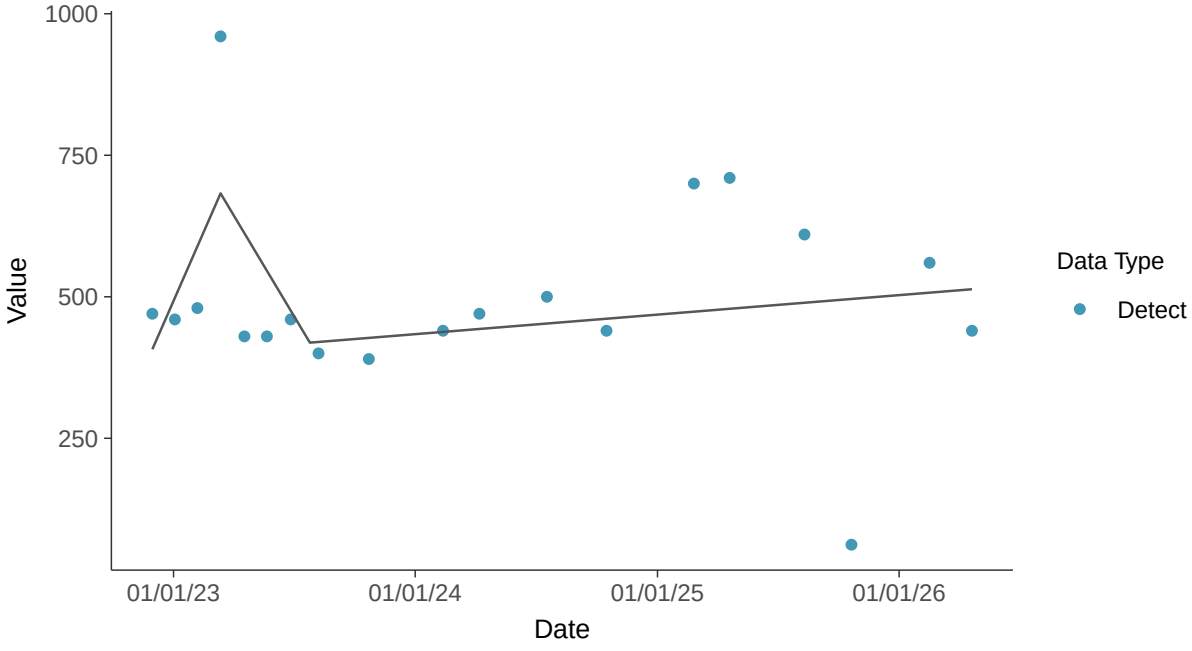
Trend Regression: Piecewise Linear-Linear

Calcium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-30 (mg/L)

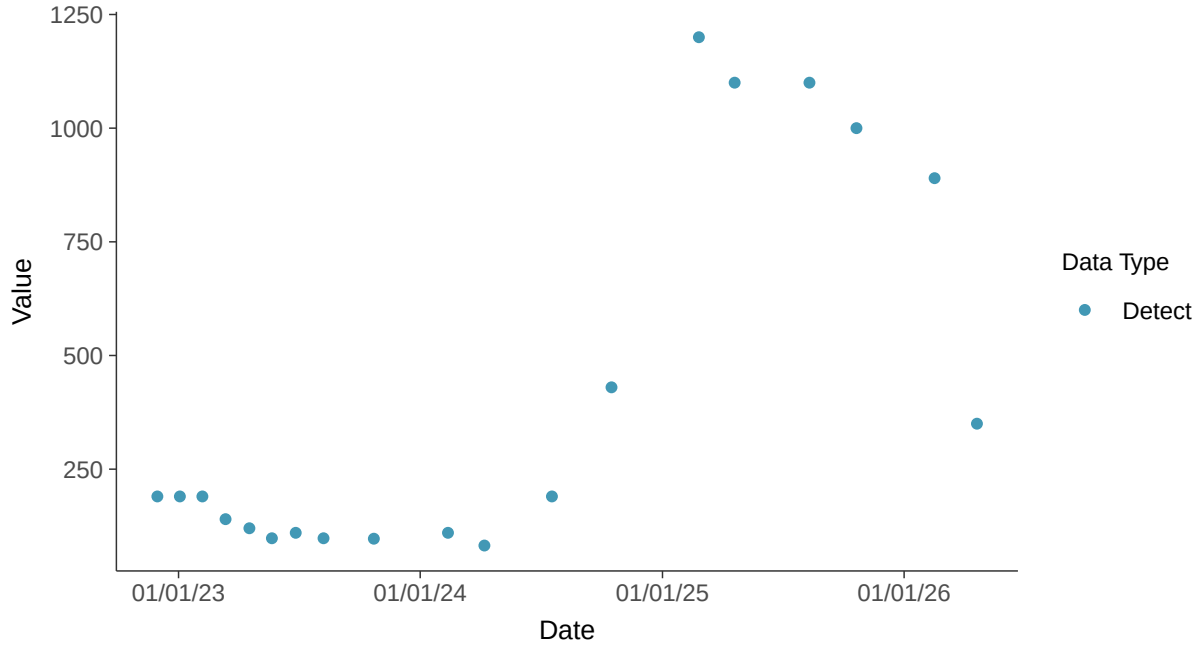


Appendix III: Chloride (as Cl), MW-30

ID: 40_1_3_108

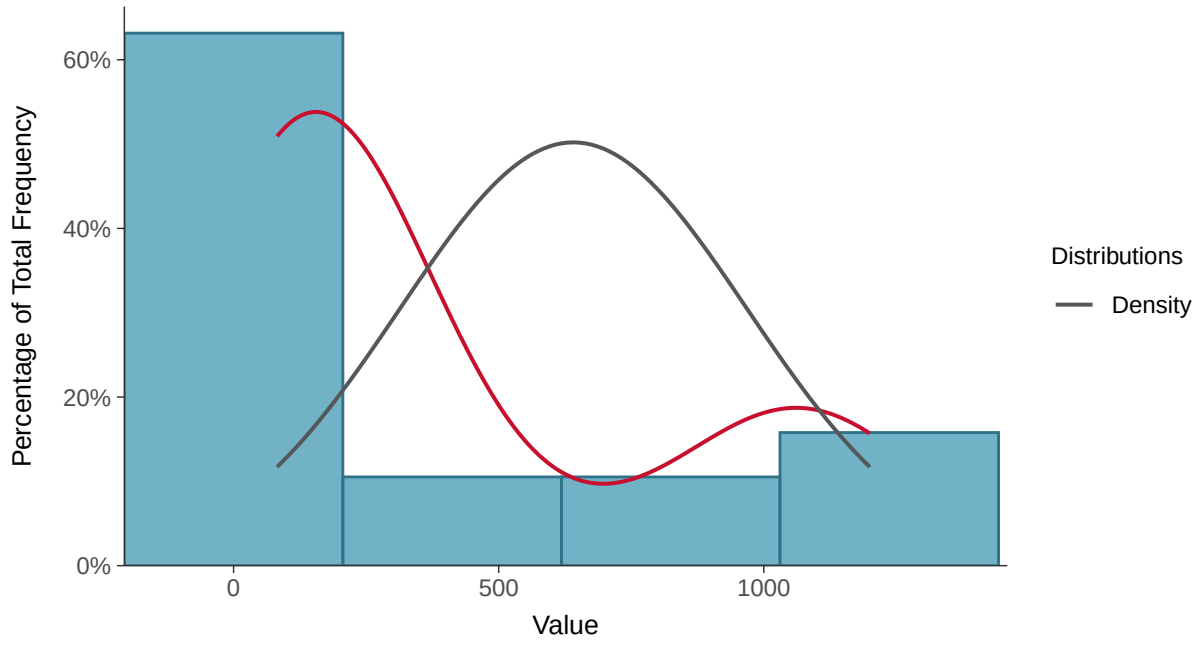
Scatter Plot

Chloride (as Cl), MW-30 (mg/L)



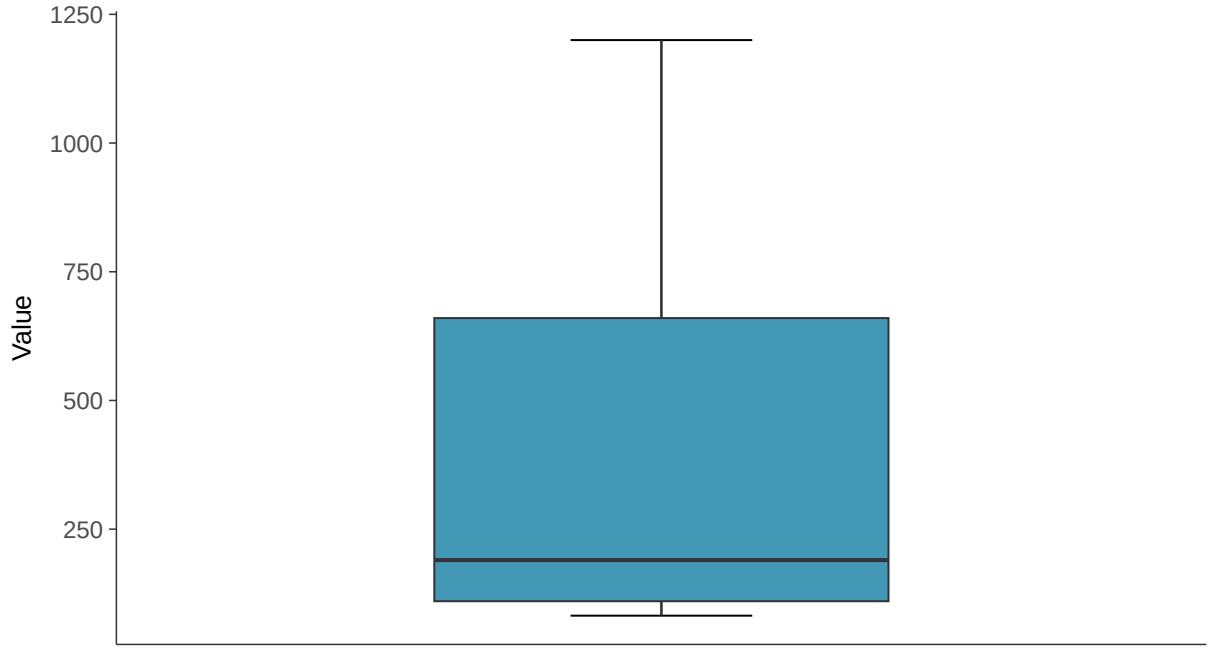
Histogram

Chloride (as Cl), MW-30 (mg/L)



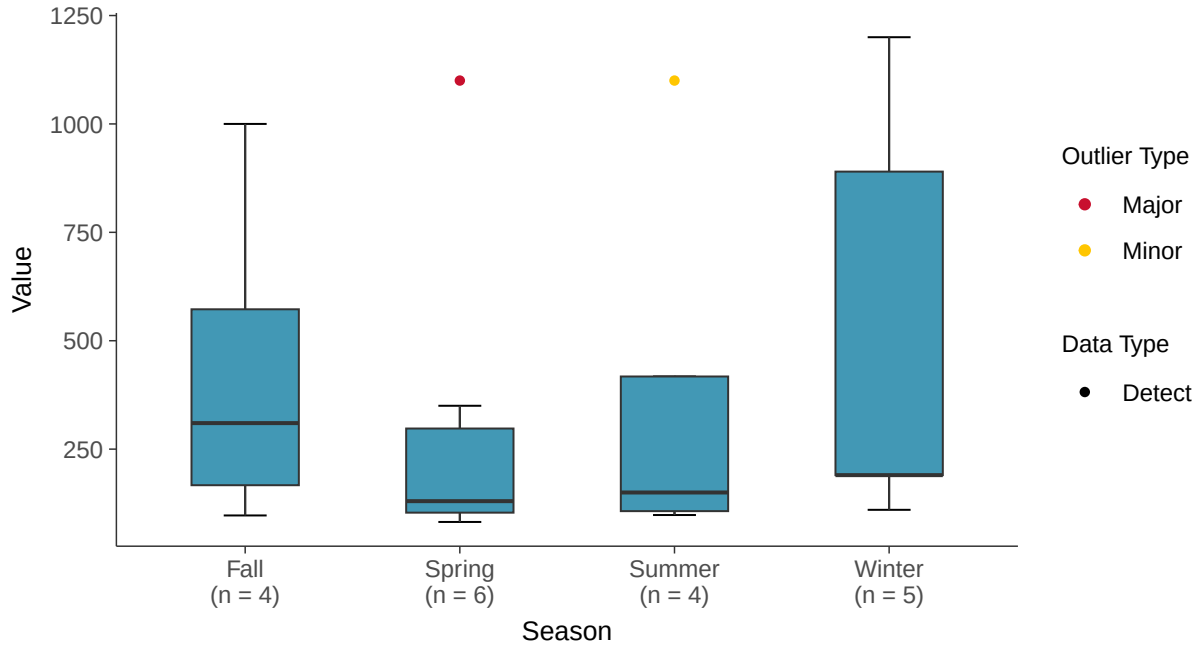
Boxplot

Chloride (as Cl), MW-30 (mg/L)



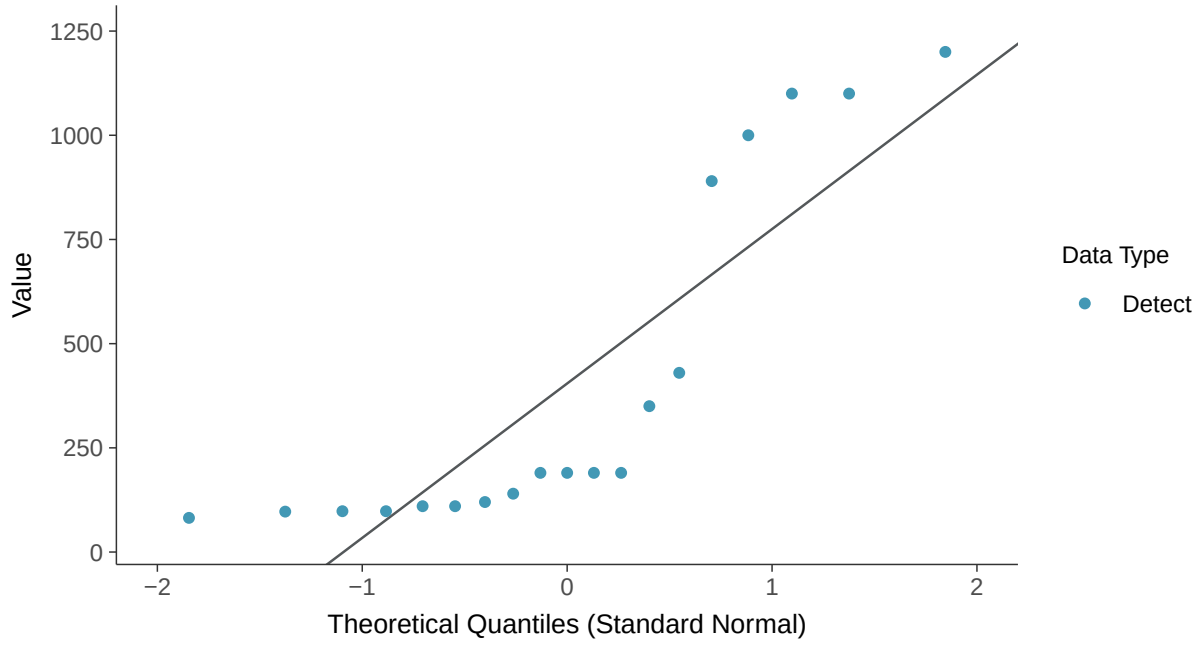
Boxplot by Season

Chloride (as Cl), MW-30 (mg/L)



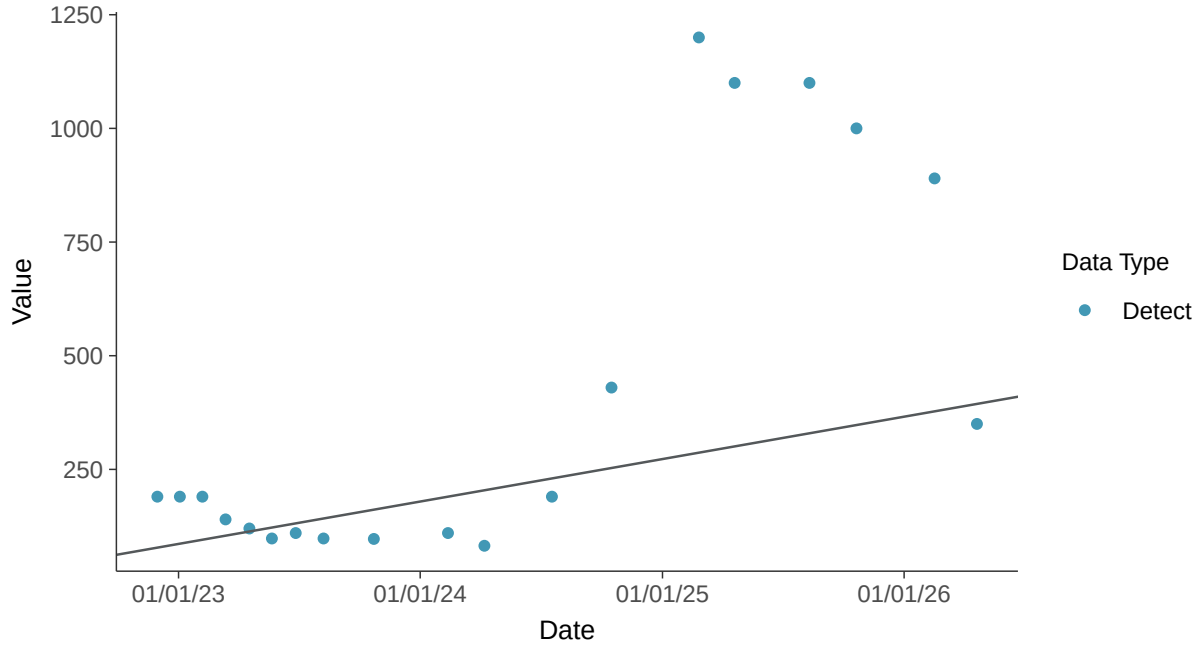
Normal Q-Q plot

Chloride (as Cl), MW-30 (mg/L)



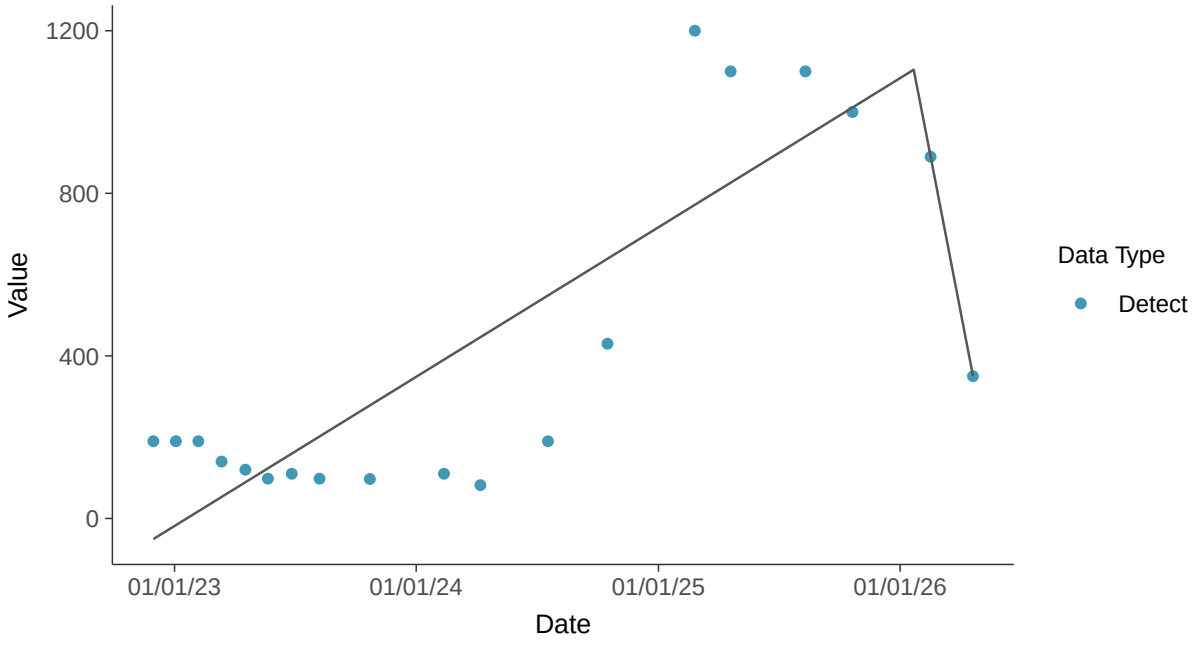
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-30 (mg/L)



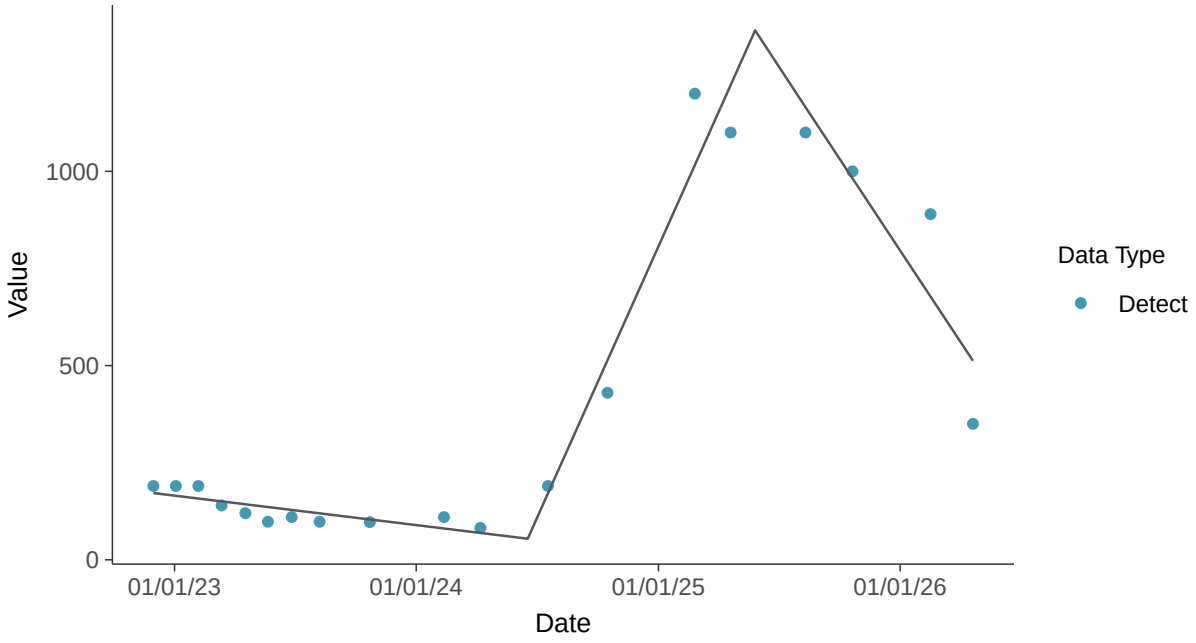
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-30 (mg/L)

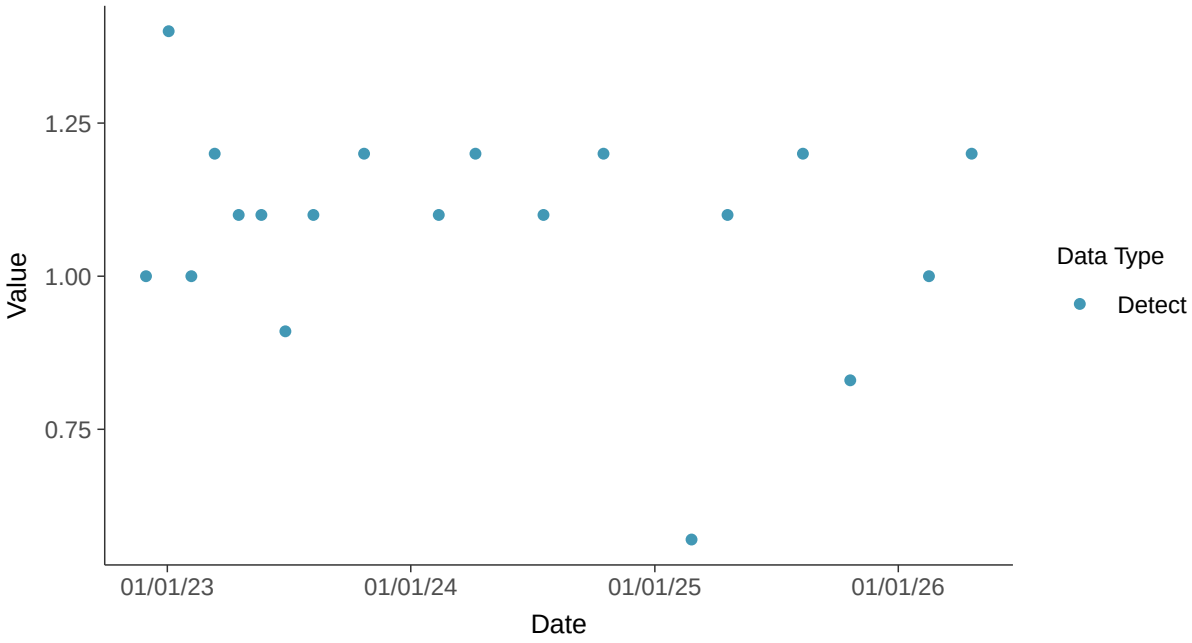


Appendix III: Fluoride, MW-30

ID: 40_1_3_112

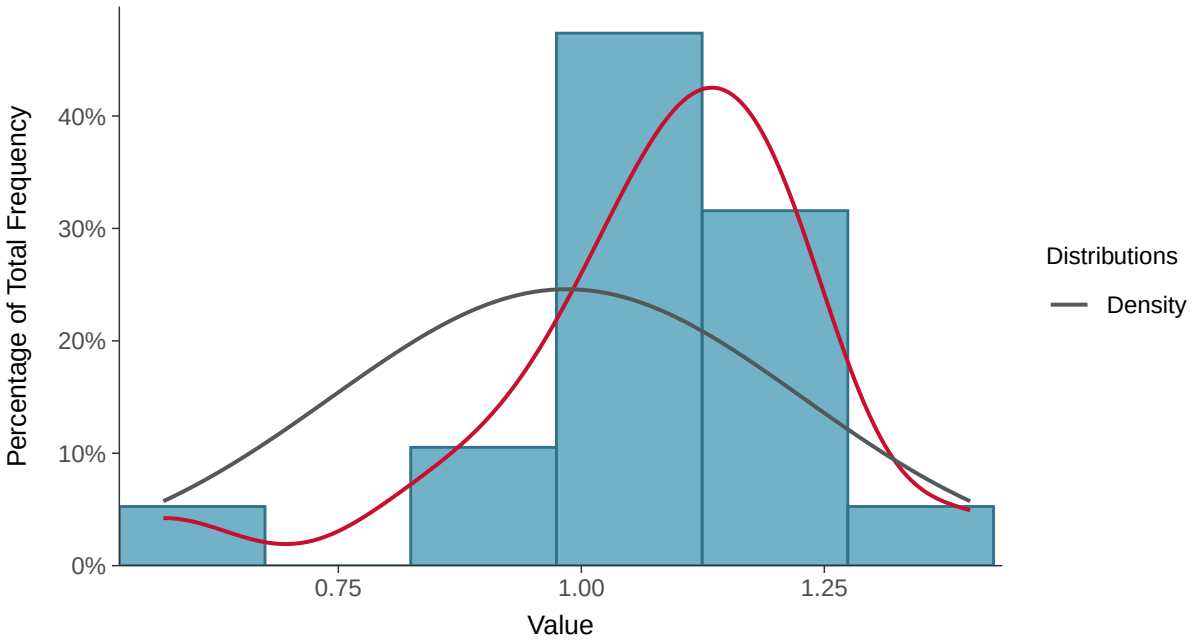
Scatter Plot

Fluoride, MW-30 (mg/L)



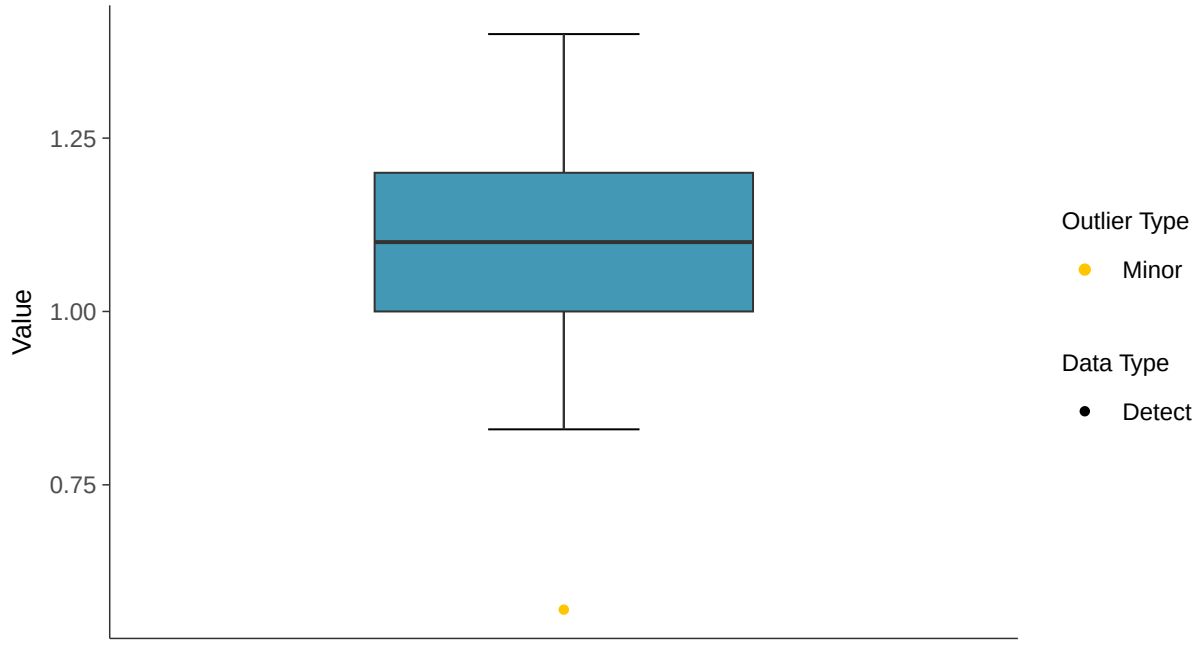
Histogram

Fluoride, MW-30 (mg/L)



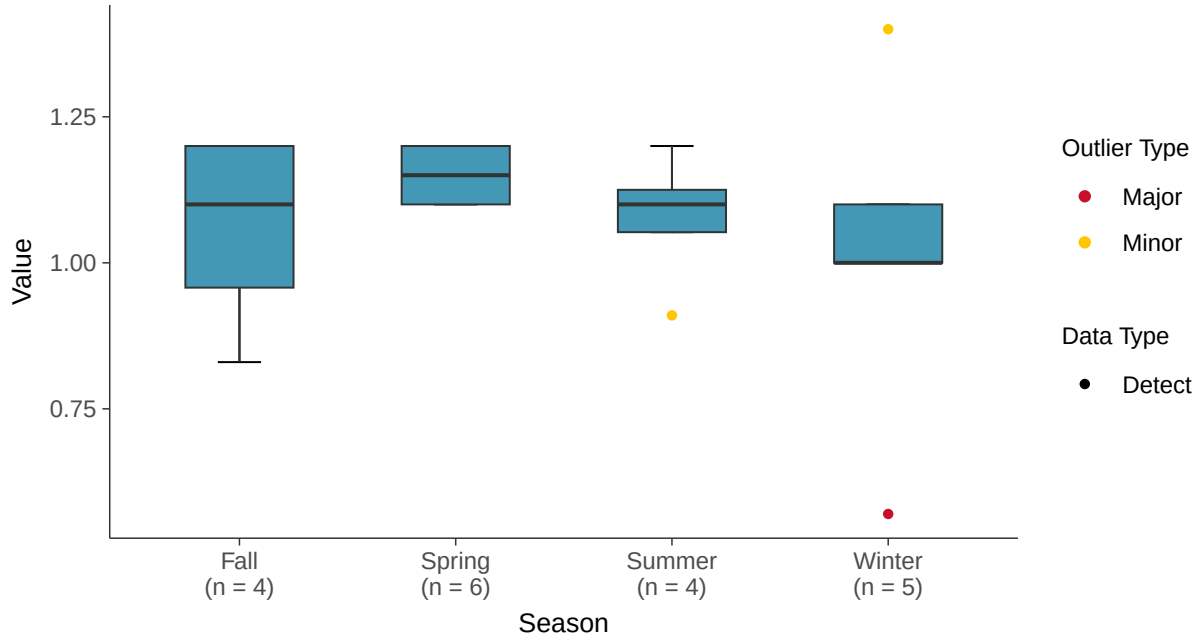
Boxplot

Fluoride, MW-30 (mg/L)



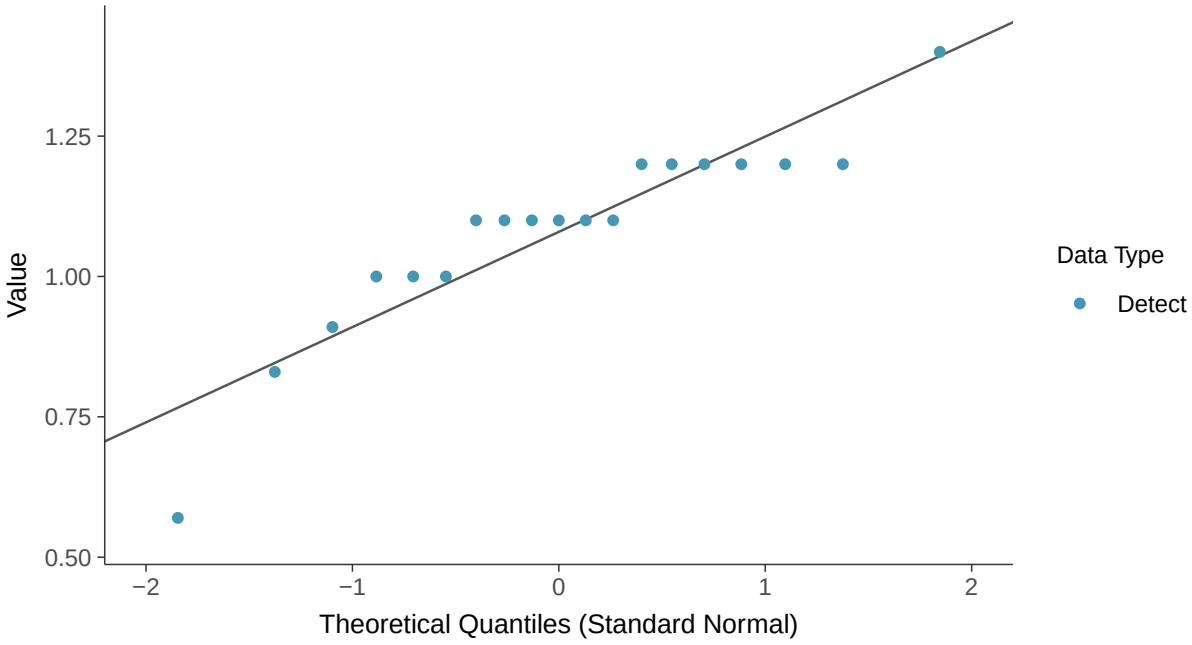
Boxplot by Season

Fluoride, MW-30 (mg/L)



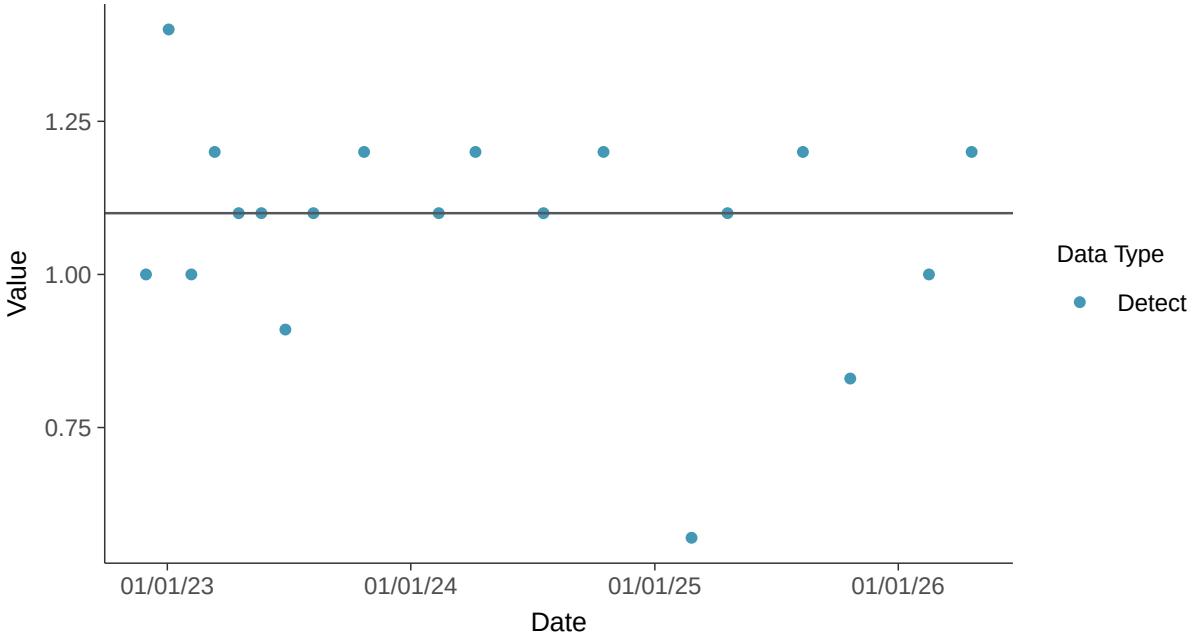
Normal Q-Q plot

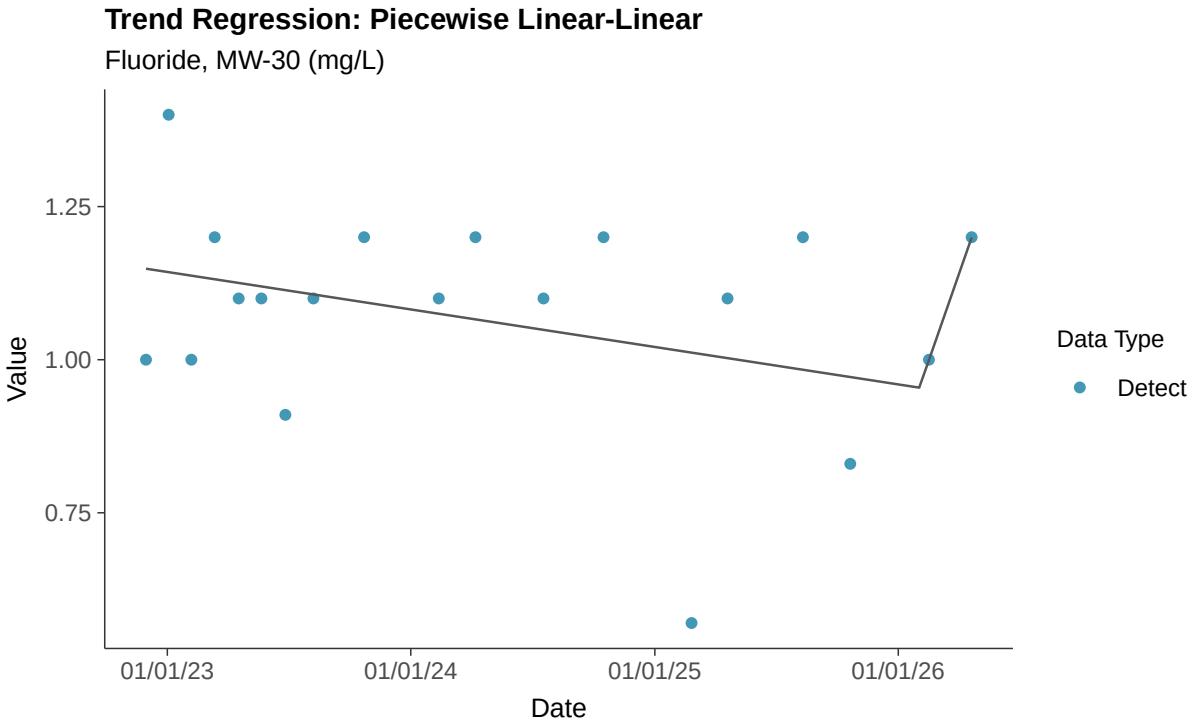
Fluoride, MW-30 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride, MW-30 (mg/L)



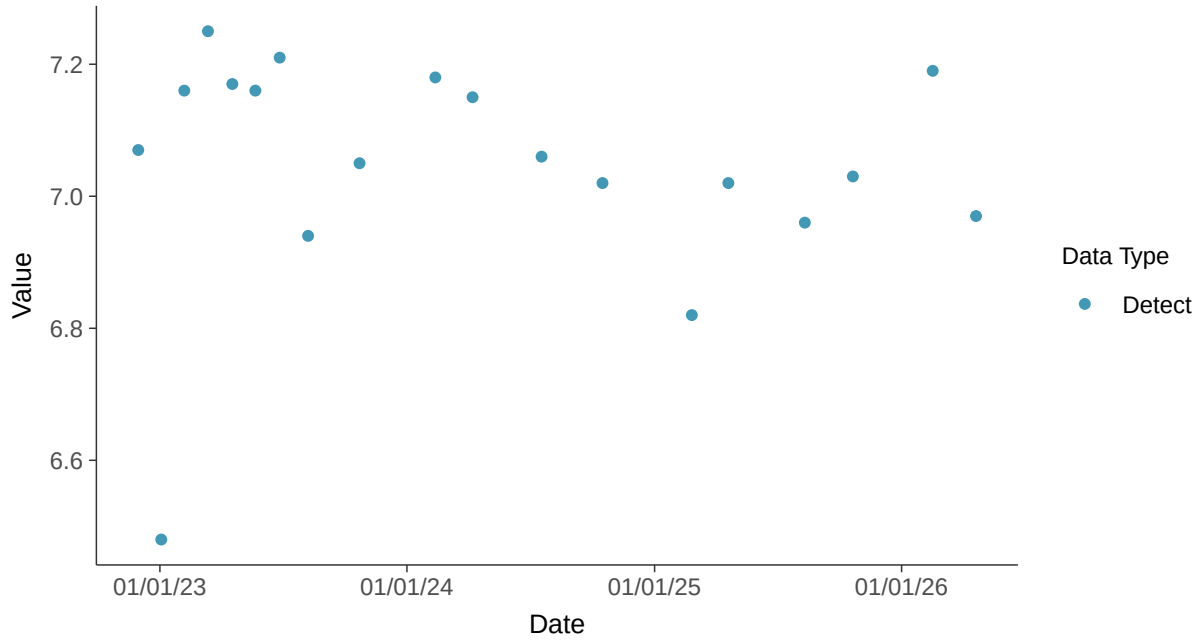

Trend Regression: Piecewise Linear-Linear
Fluoride, MW-30 (mg/L)
Value
1.25
1.00
0.75
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: pH (field), MW-30

ID: 40_1_3_120

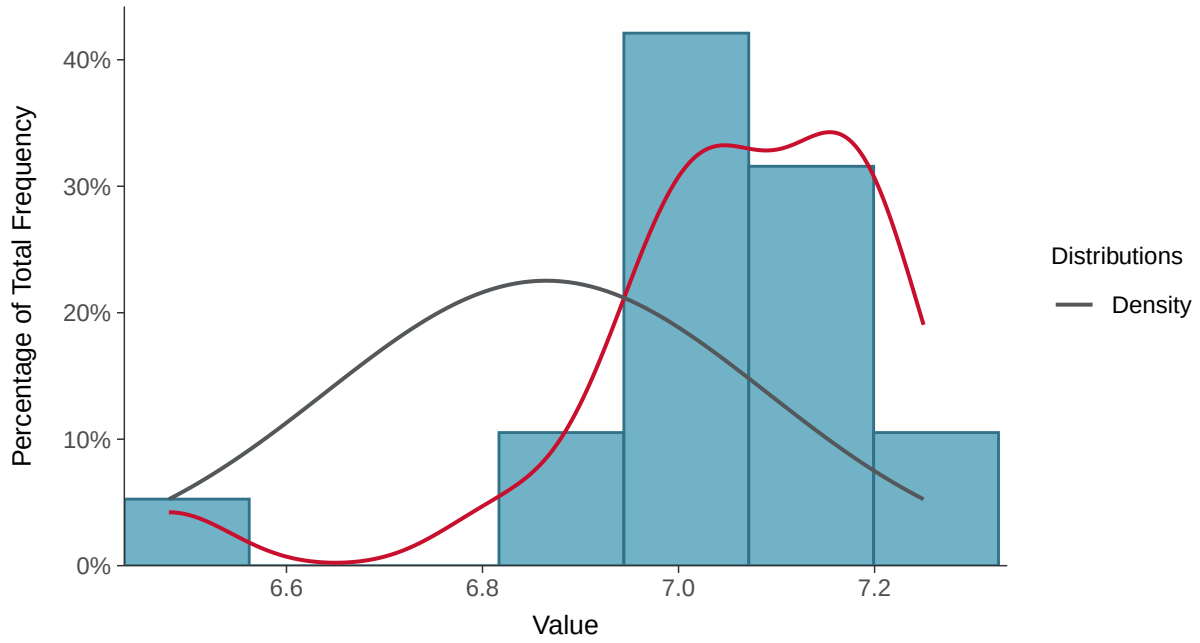
Scatter Plot

pH (field), MW-30 (su)



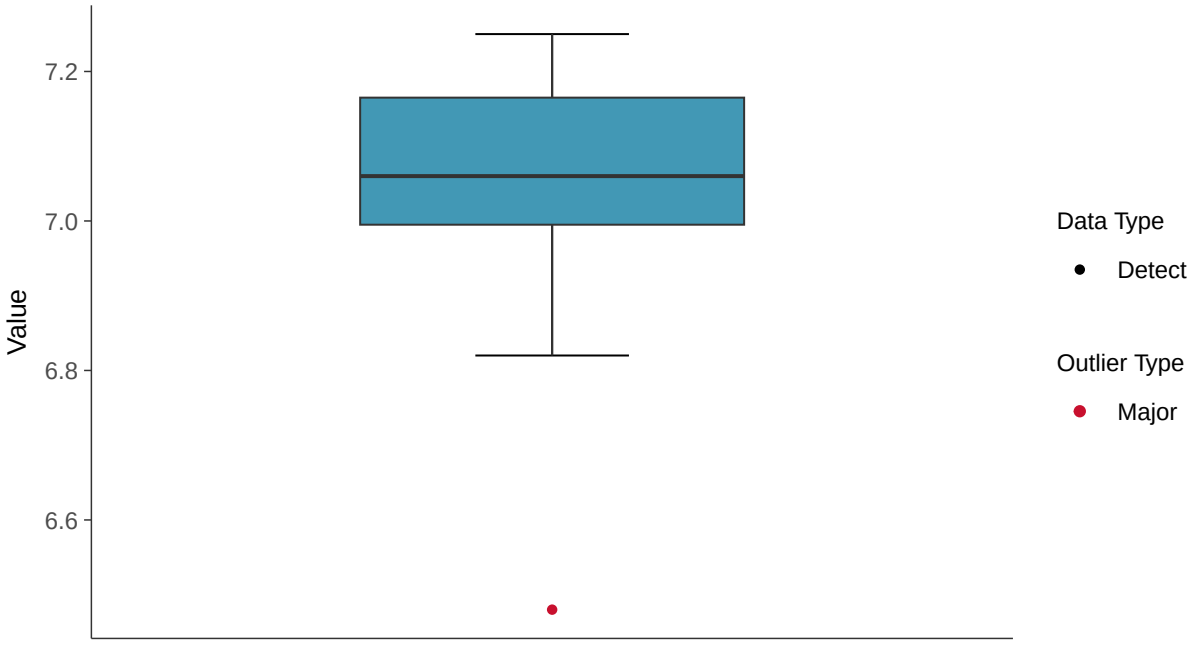
Histogram

pH (field), MW-30 (su)



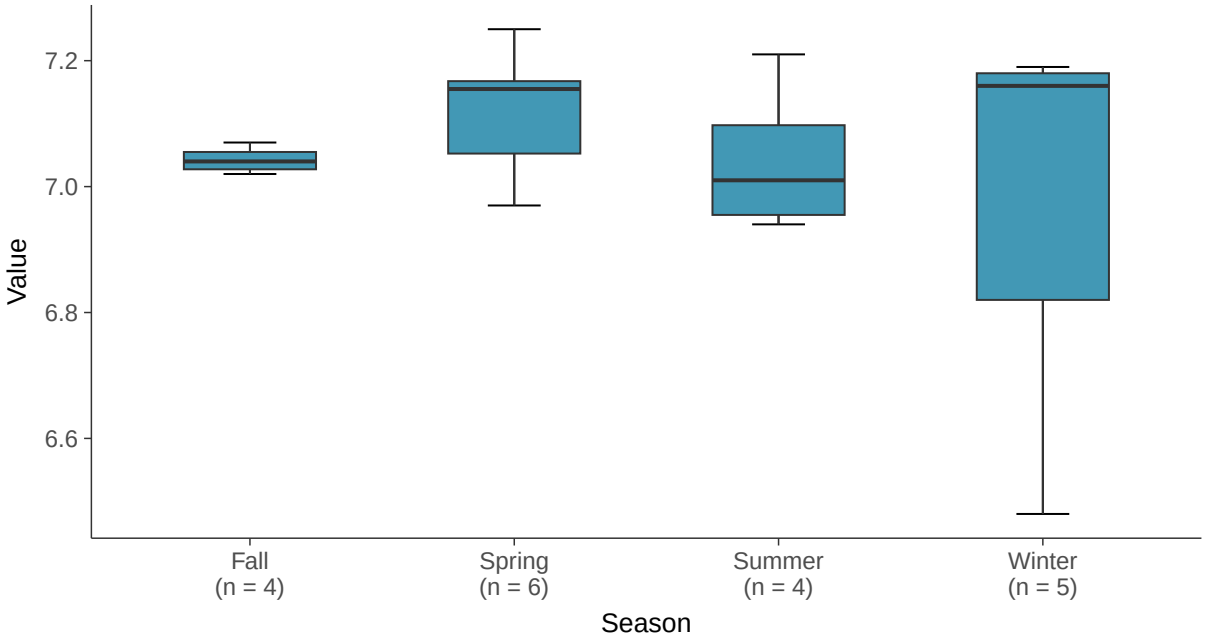
Boxplot

pH (field), MW-30 (su)



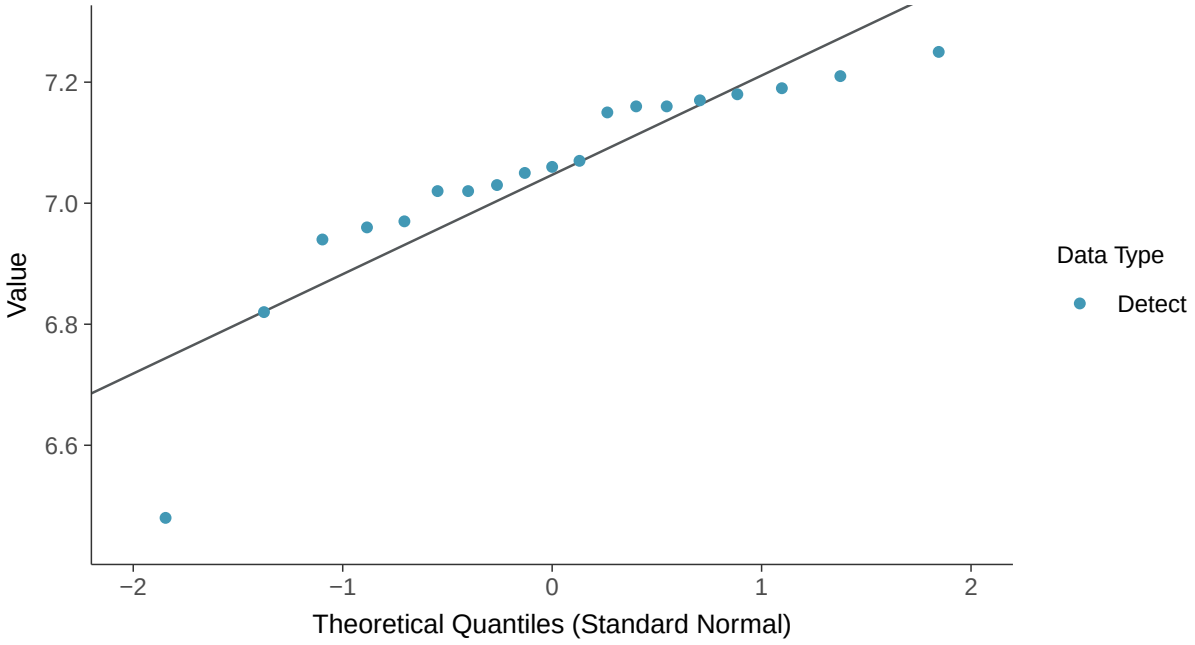
Boxplot by Season

pH (field), MW-30 (su)



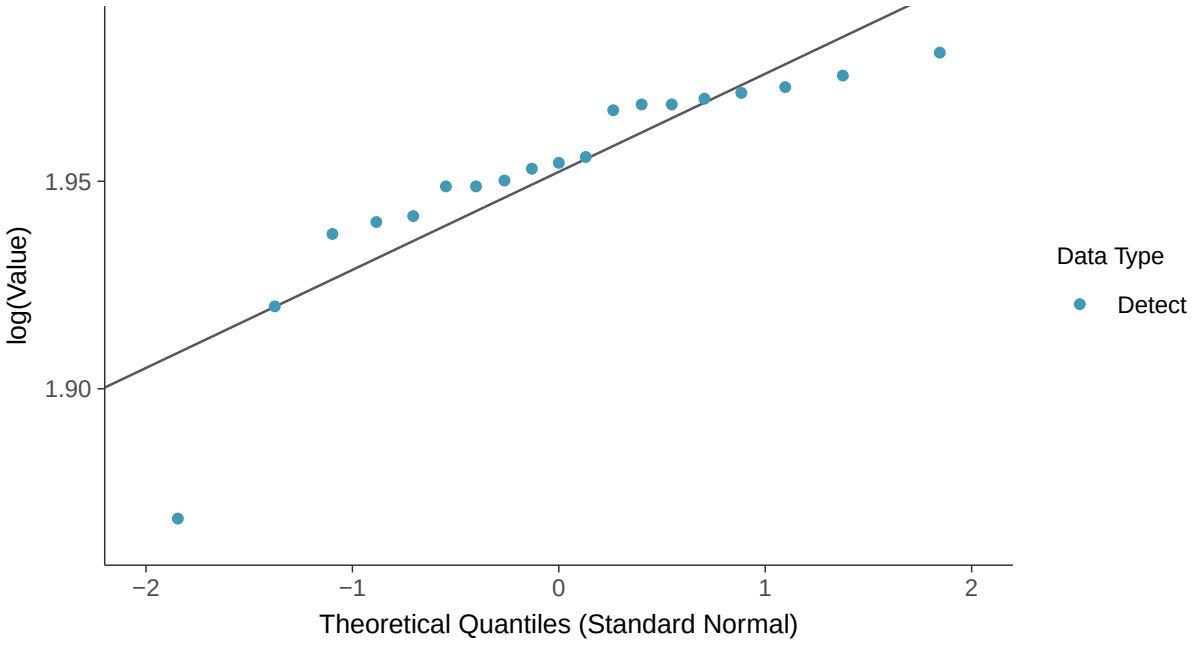
Normal Q-Q plot

pH (field), MW-30 (su)



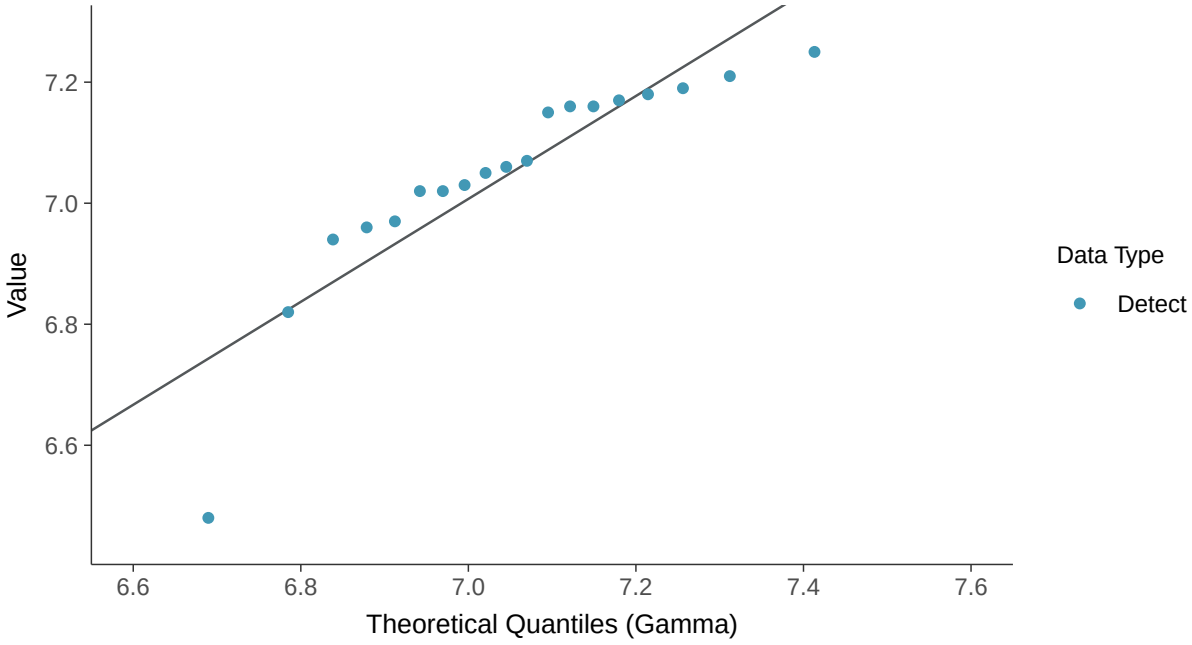
Lognormal Q-Q plot

pH (field), MW-30 (su)



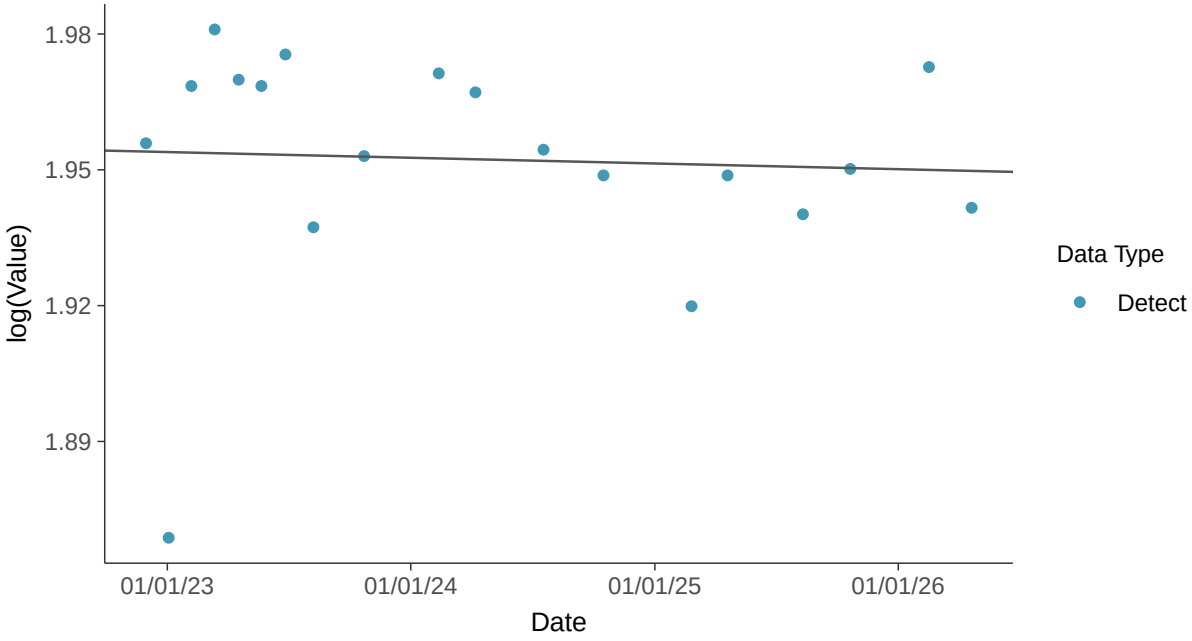
Gamma Q-Q plot

pH (field), MW-30 (su)



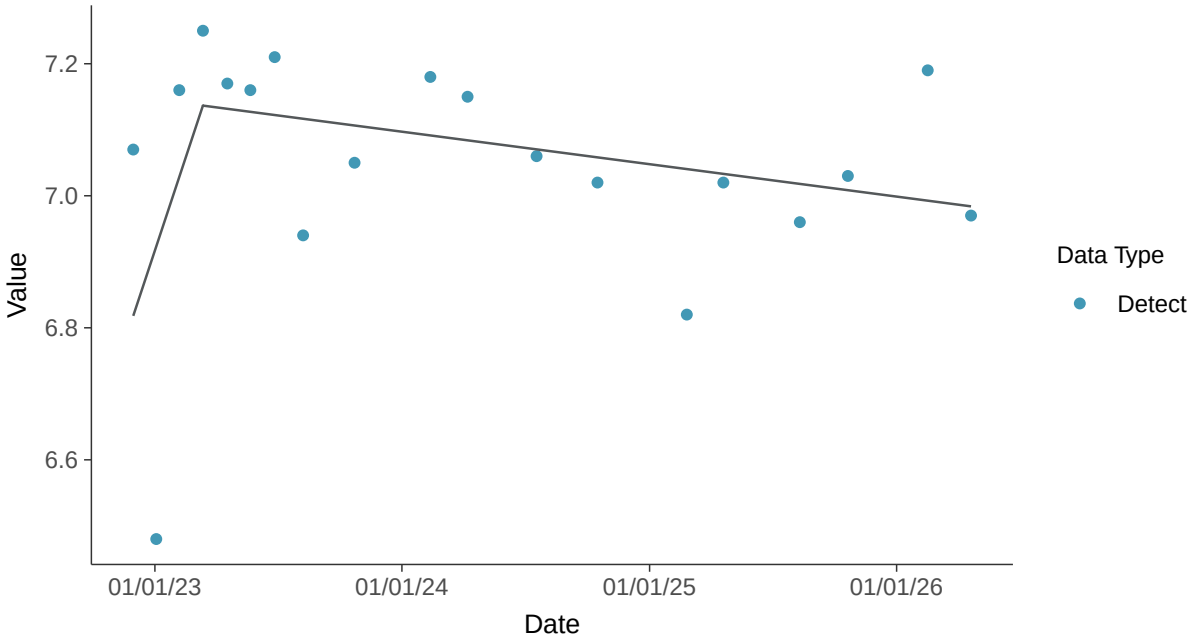
Trend Regression: Lognormal MLE

pH (field), MW-30 (su)



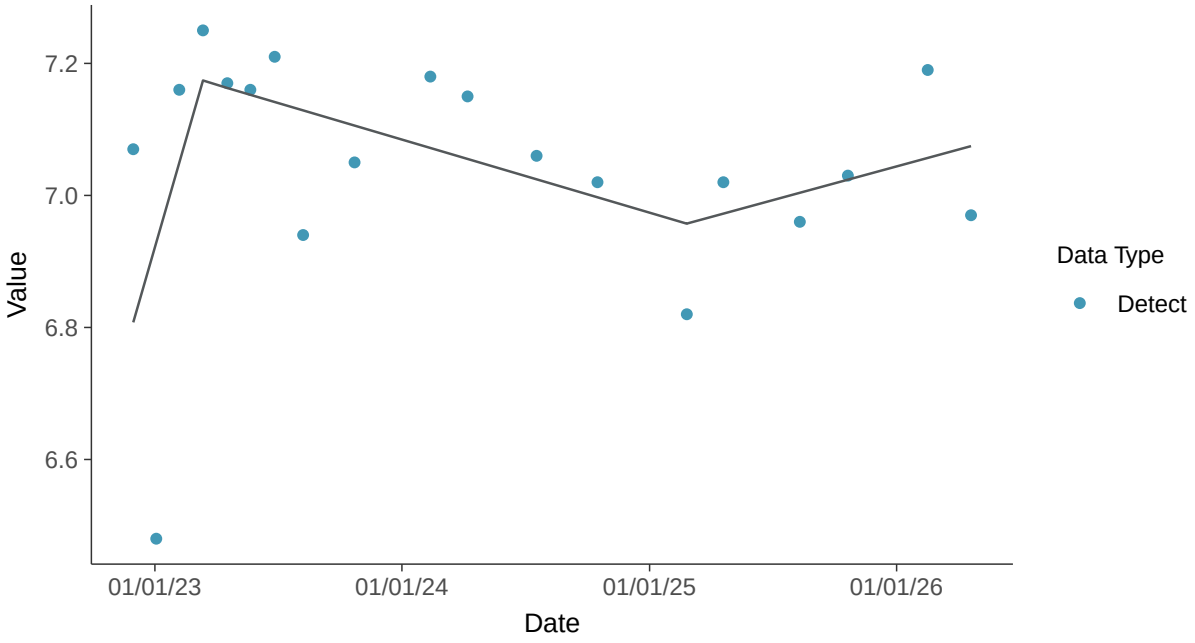
Trend Regression: Piecewise Linear-Linear

pH (field), MW-30 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-30 (su)

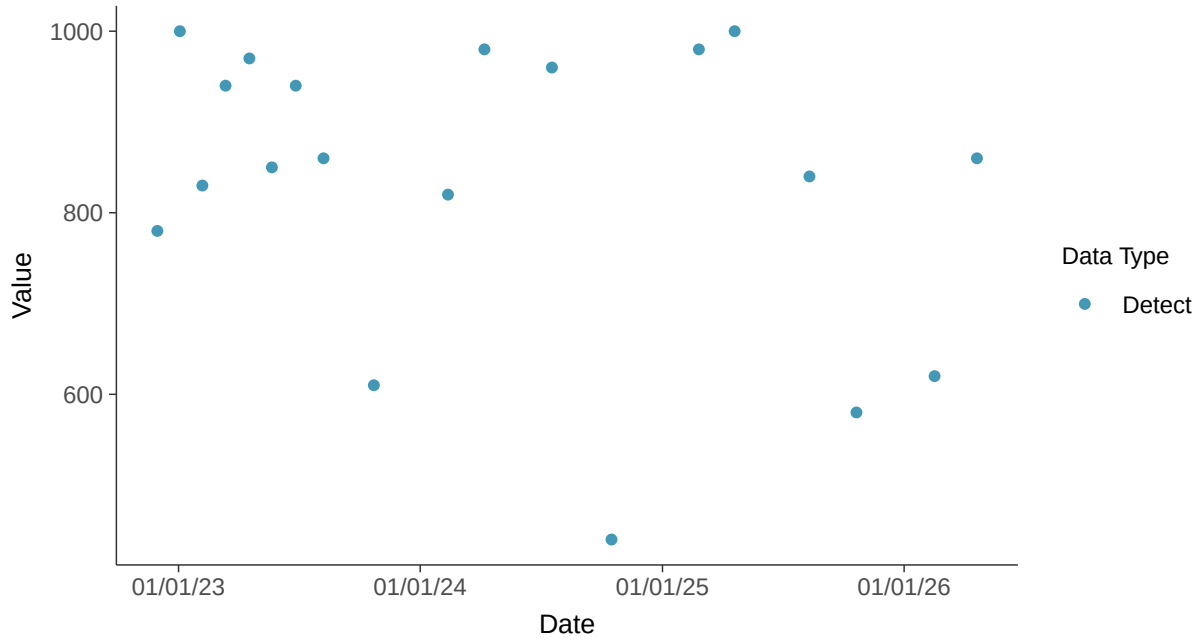


Appendix III: Sulfate (as SO4), MW-30

ID: 40_1_3_124

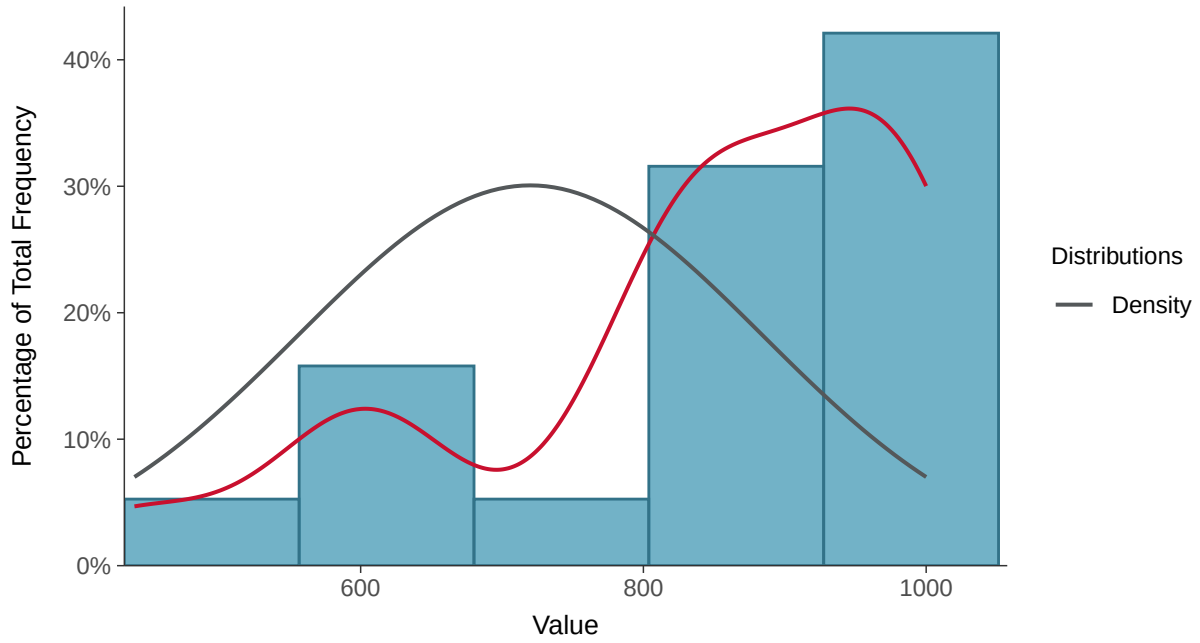
Scatter Plot

Sulfate (as SO4), MW-30 (mg/L)



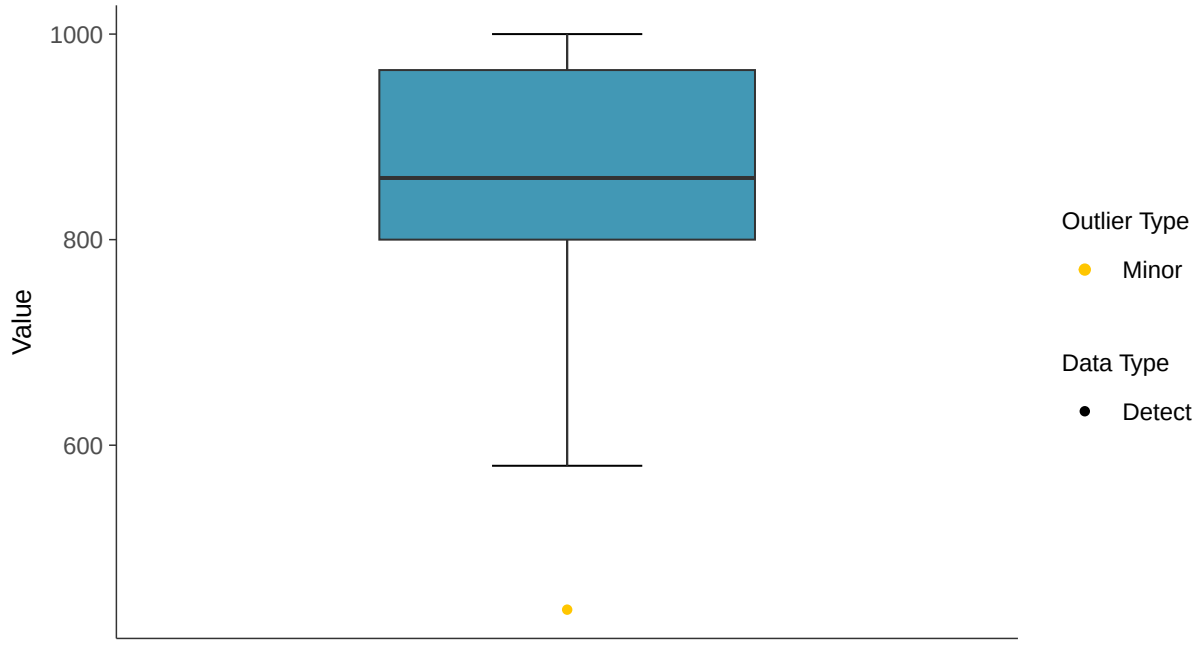
Histogram

Sulfate (as SO4), MW-30 (mg/L)



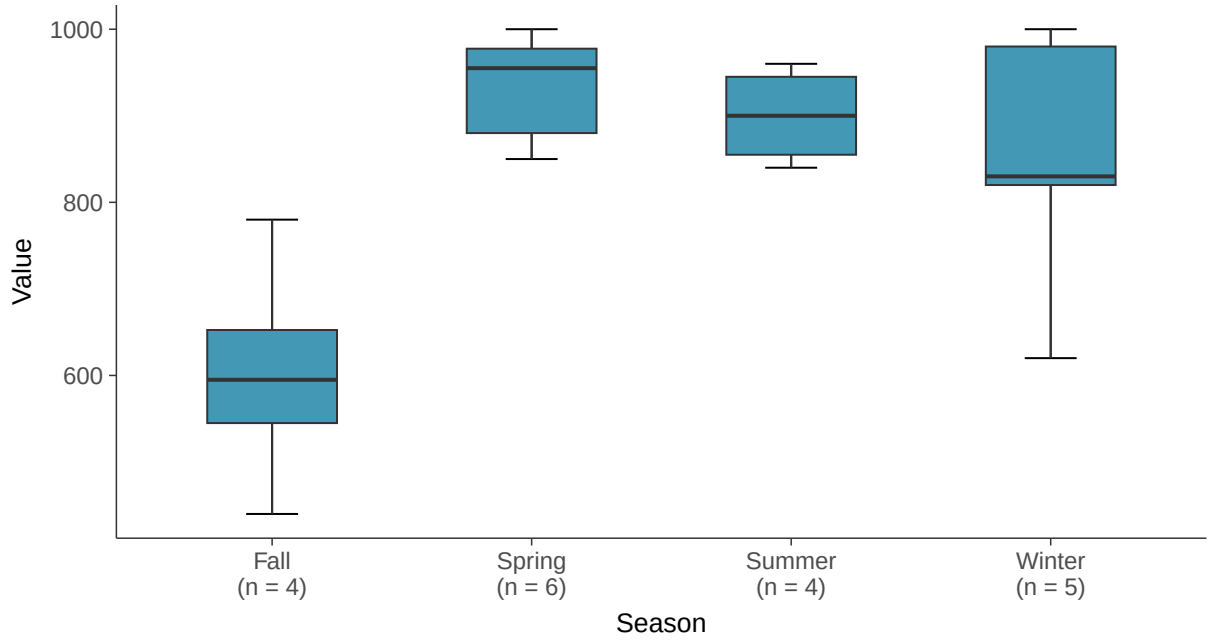
Boxplot

Sulfate (as SO4), MW-30 (mg/L)



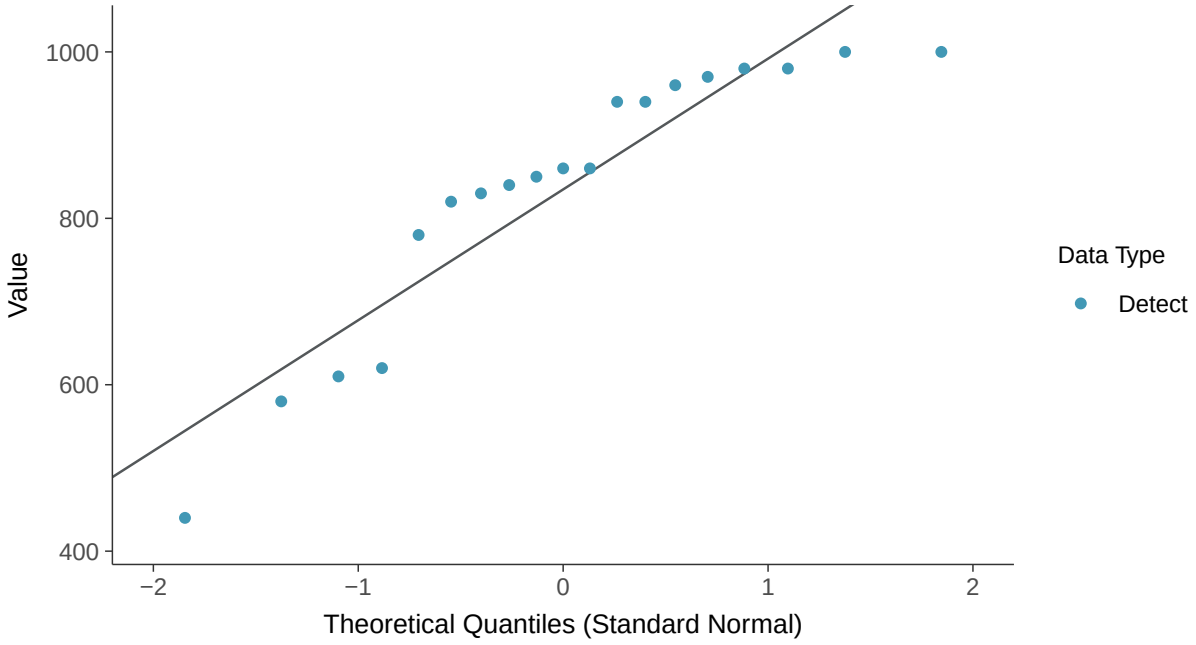
Boxplot by Season

Sulfate (as SO4), MW-30 (mg/L)



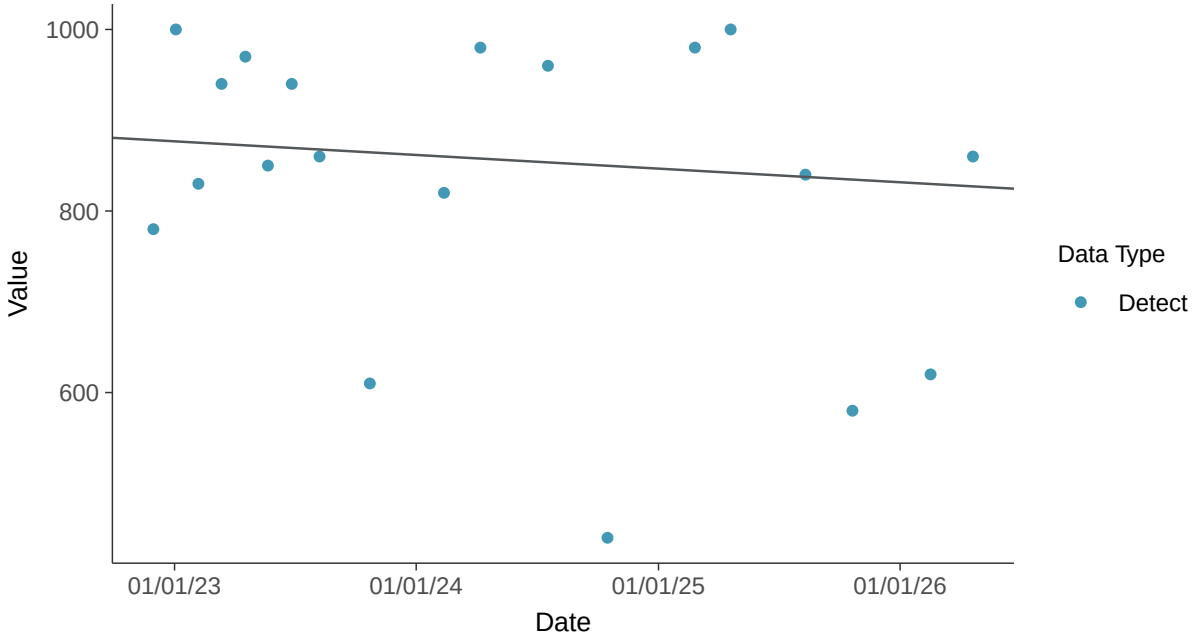
Normal Q-Q plot

Sulfate (as SO4), MW-30 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Sulfate (as SO4), MW-30 (mg/L)

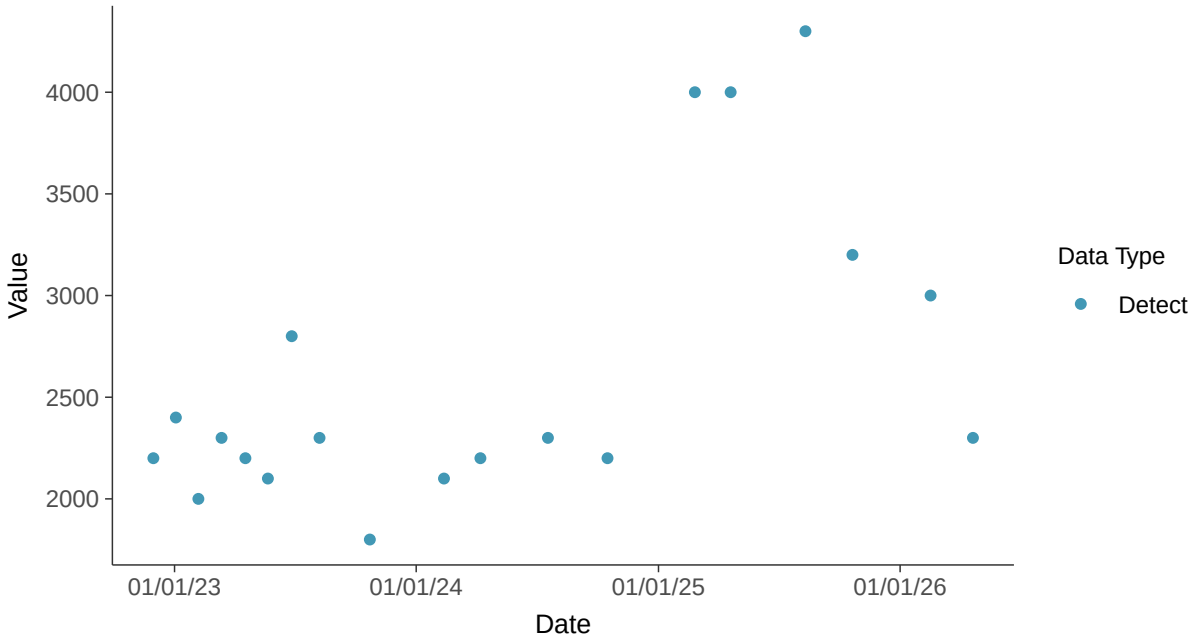


Appendix III: Total Dissolved Solids, MW-30

ID: 40_1_3_126

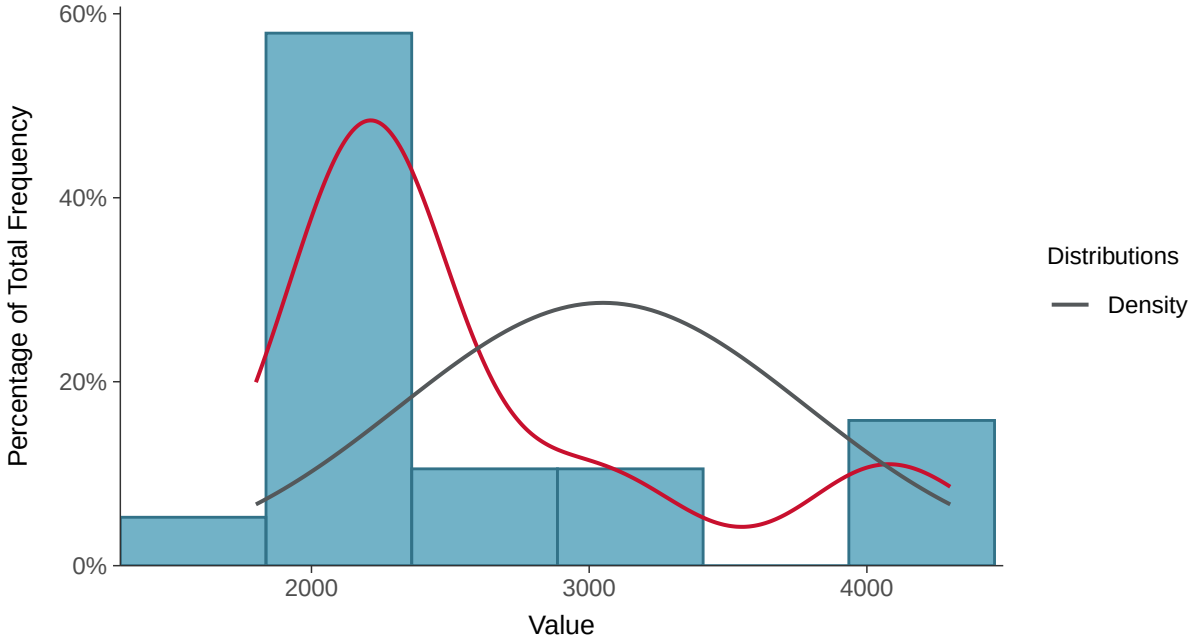
Scatter Plot

Total Dissolved Solids, MW-30 (mg/L)



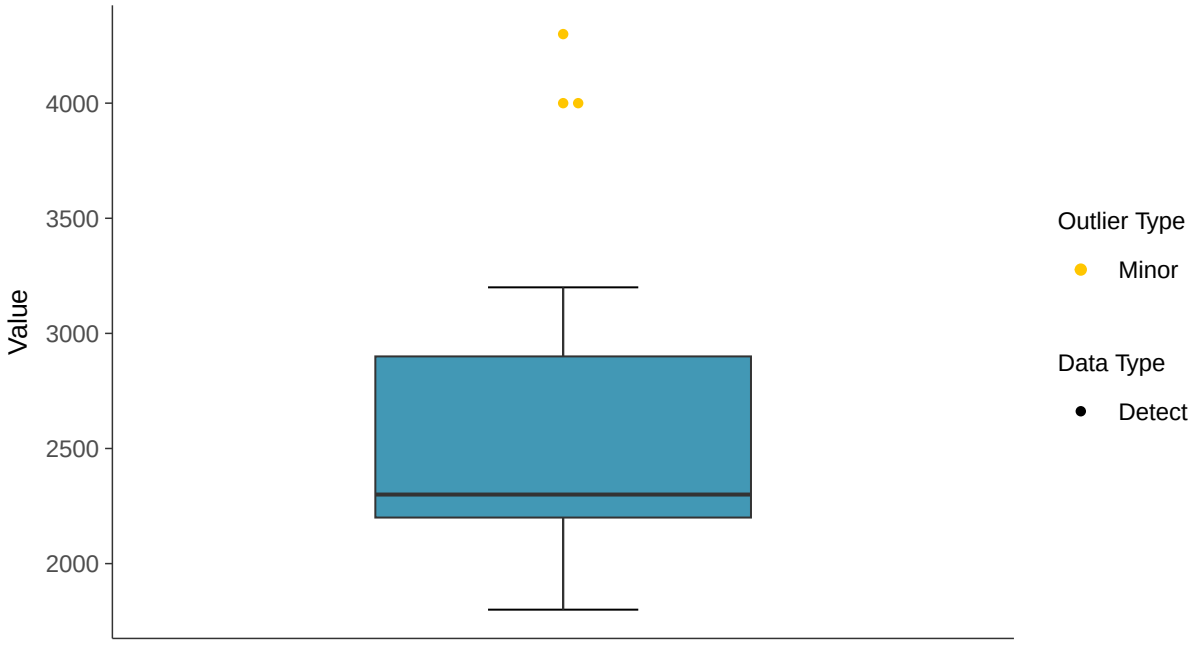
Histogram

Total Dissolved Solids, MW-30 (mg/L)



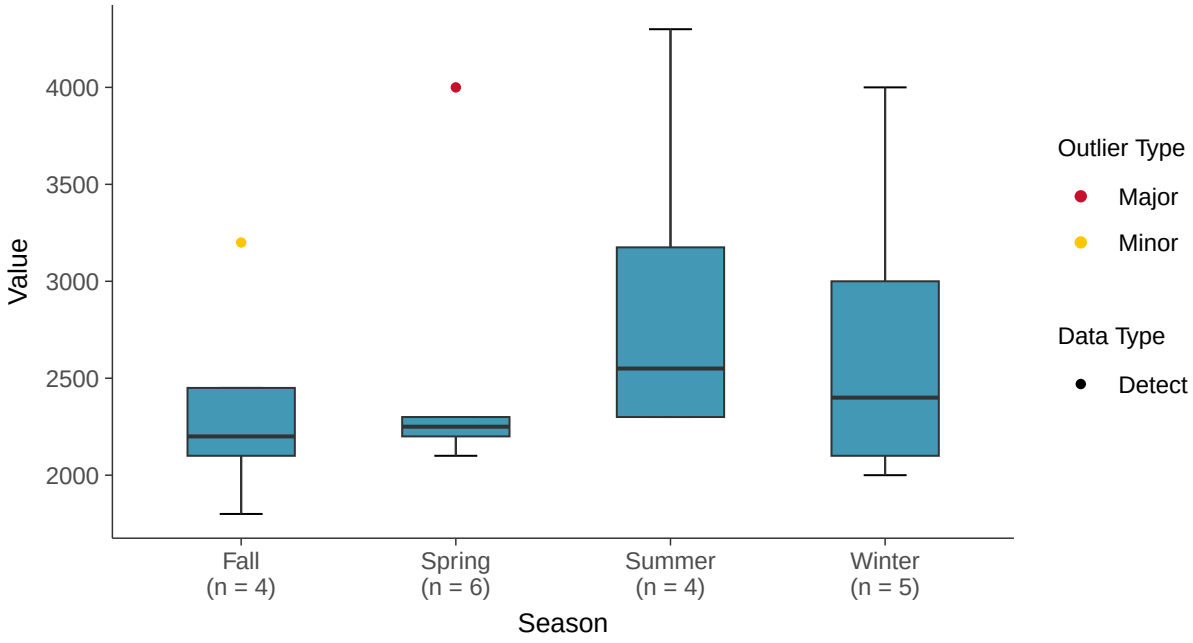
Boxplot

Total Dissolved Solids, MW-30 (mg/L)



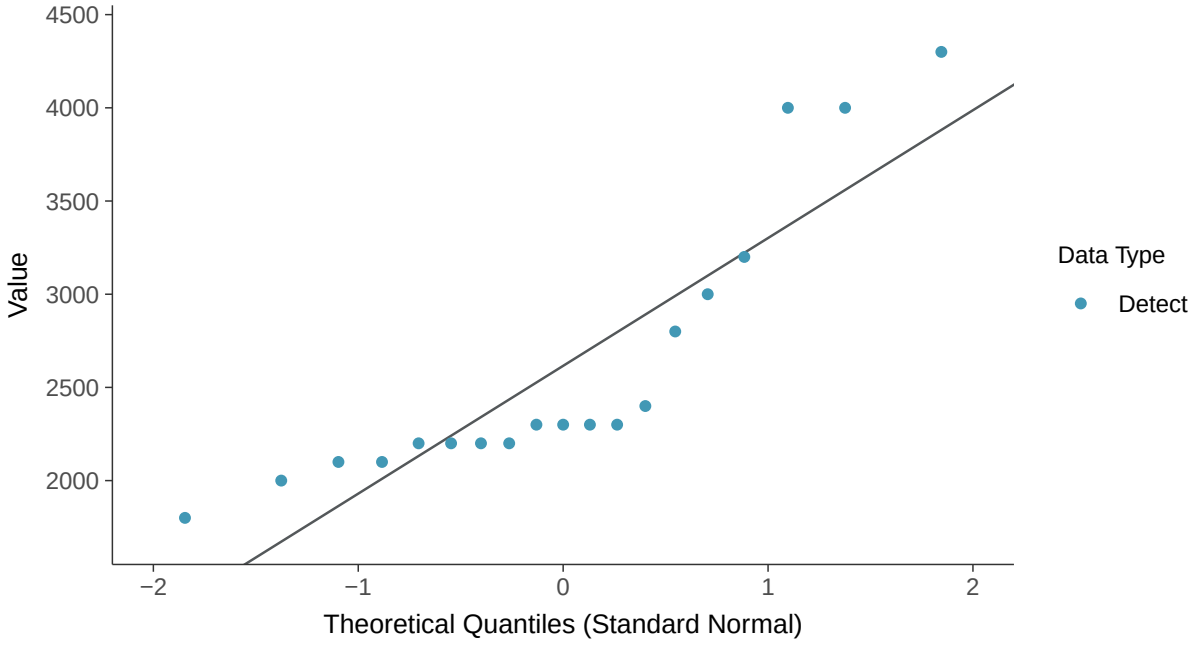
Boxplot by Season

Total Dissolved Solids, MW-30 (mg/L)



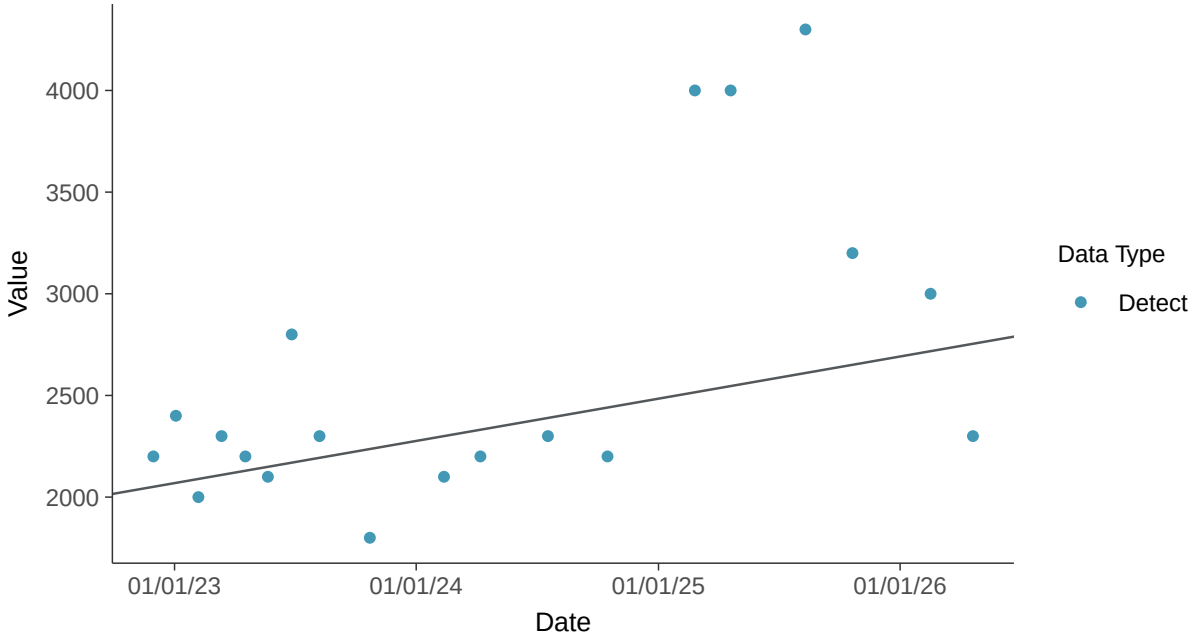
Normal Q-Q plot

Total Dissolved Solids, MW-30 (mg/L)



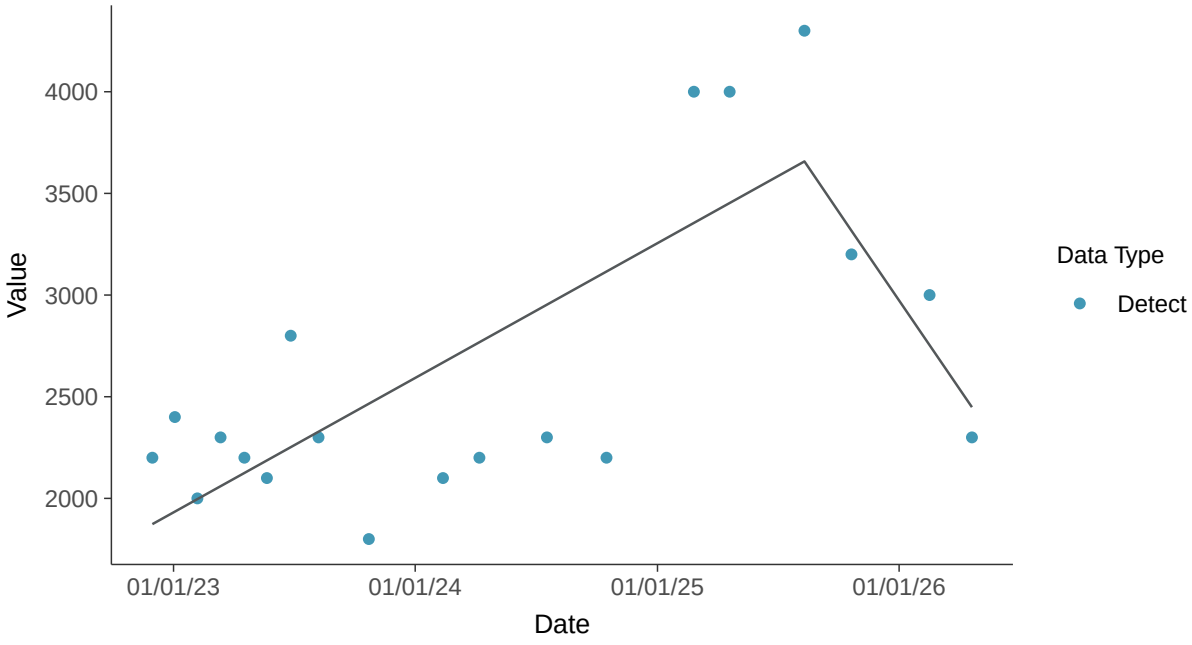
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-30 (mg/L)



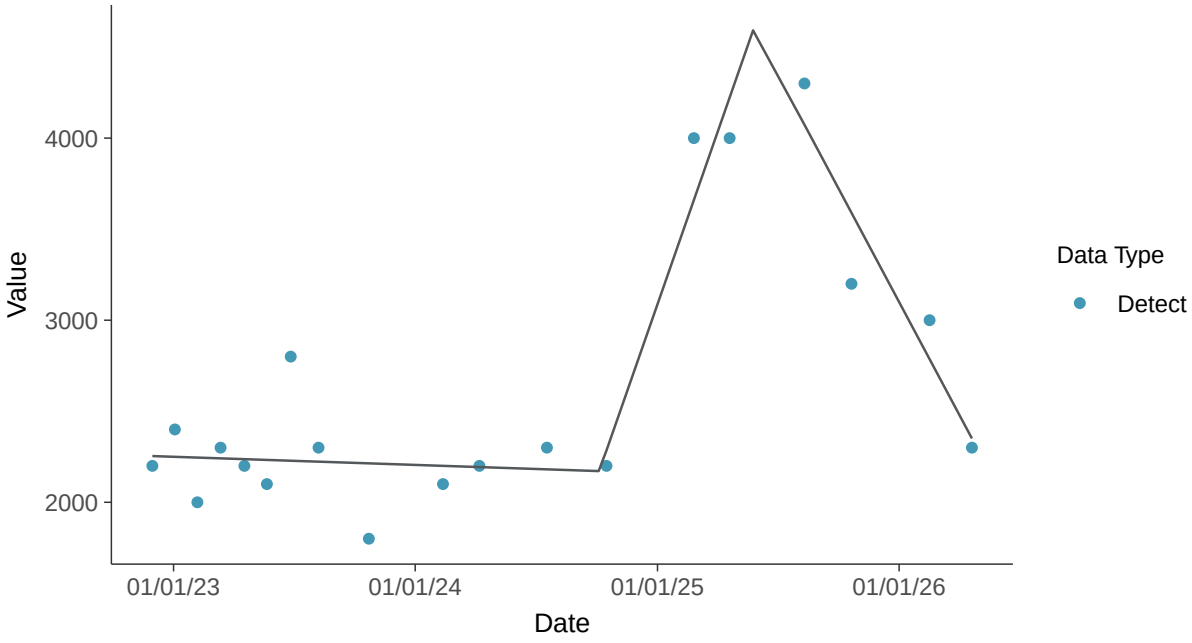
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-30 (mg/L)



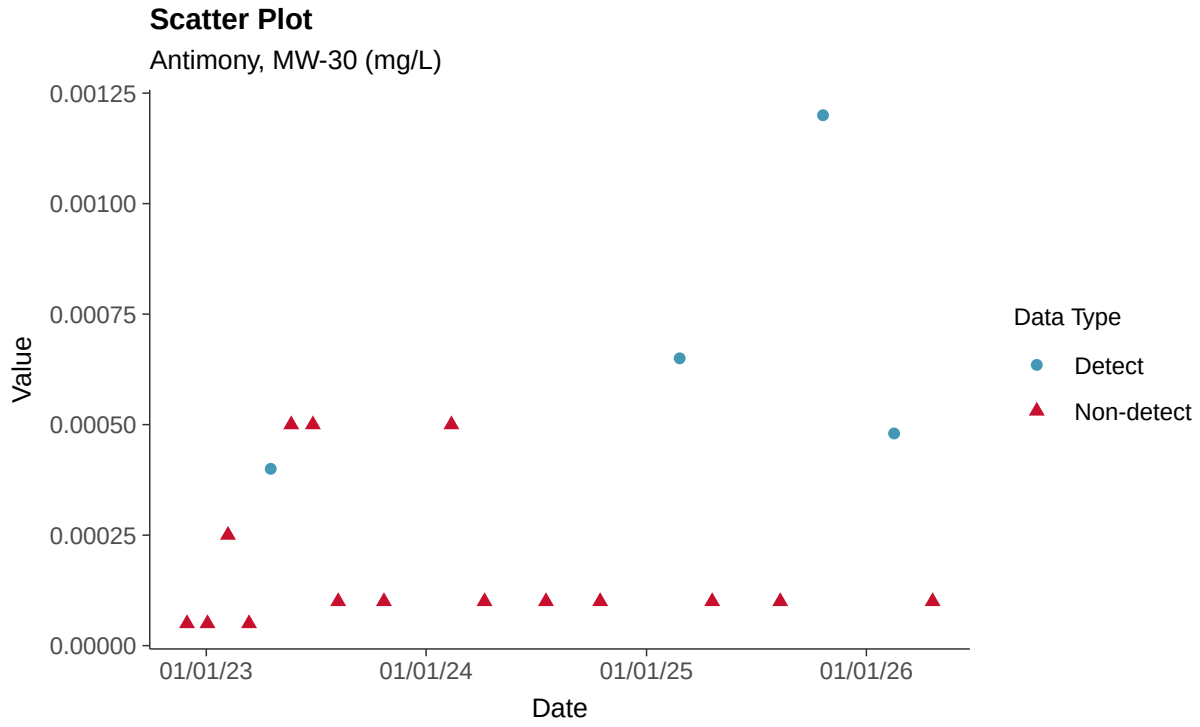
Trend Regression: Piecewise Linear-Linear-Linear

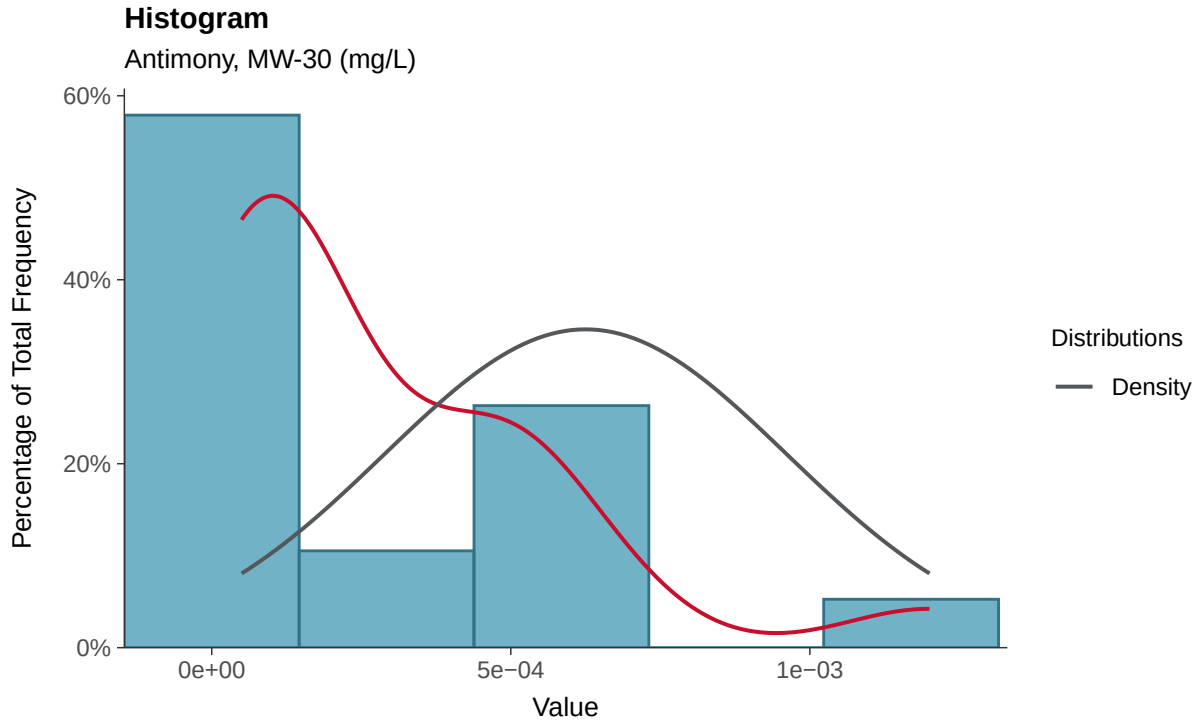
Total Dissolved Solids, MW-30 (mg/L)



Appendix IV: Antimony, MW-30

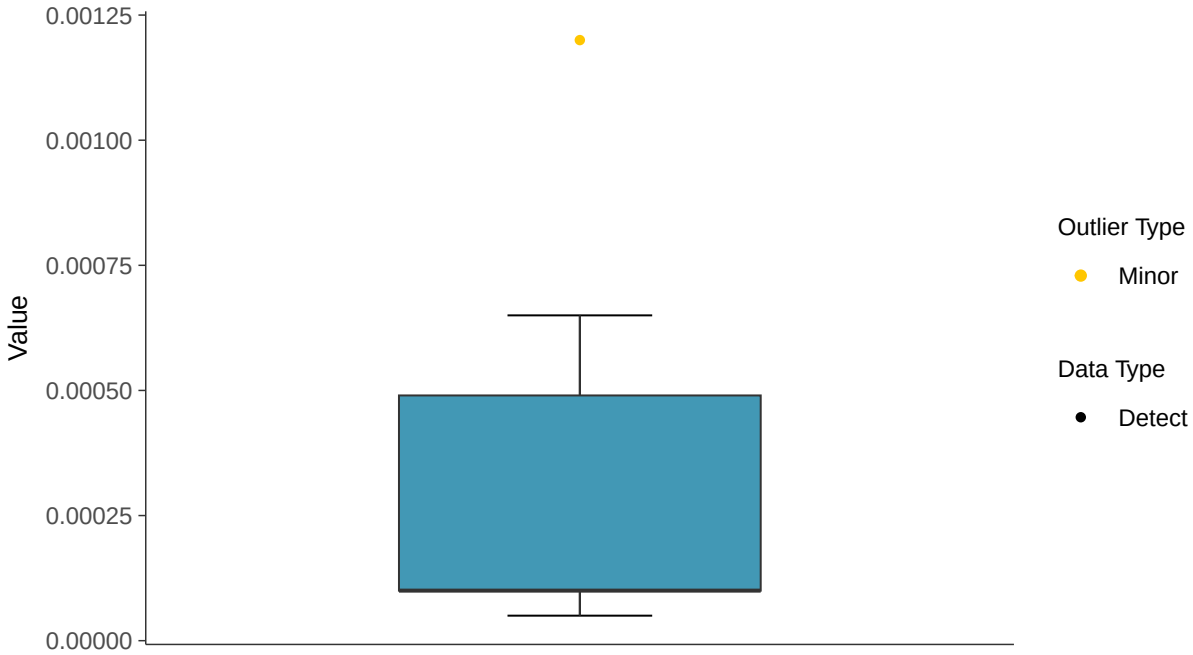
ID: 40_1_4_101





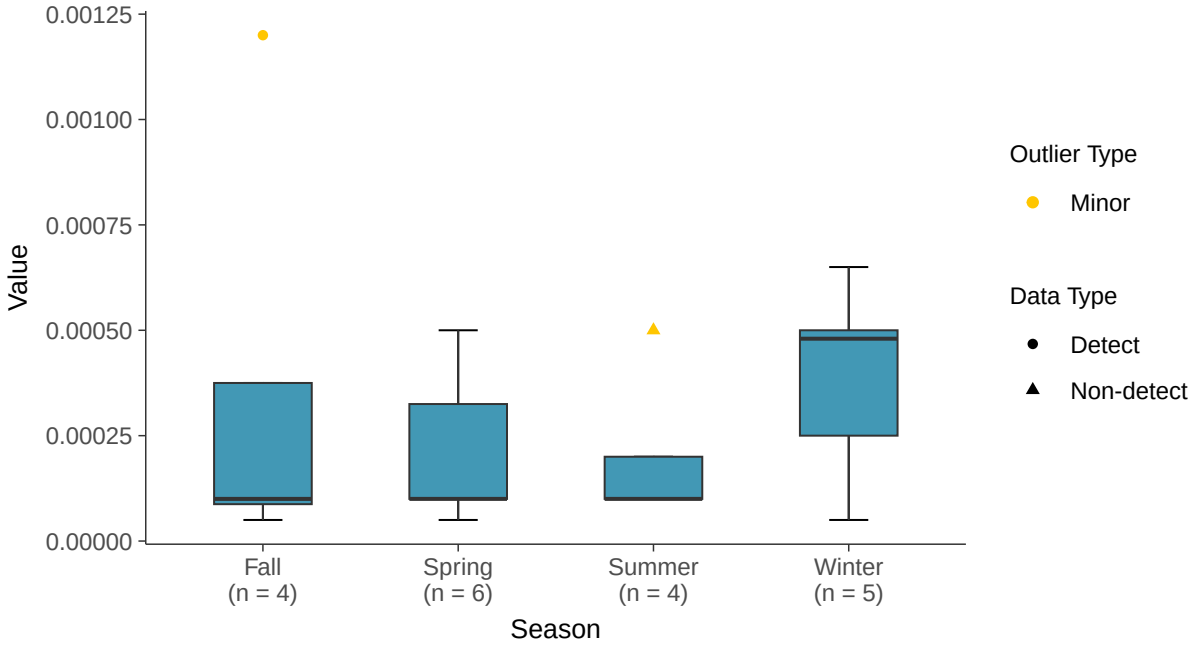
Boxplot

Antimony, MW-30 (mg/L)



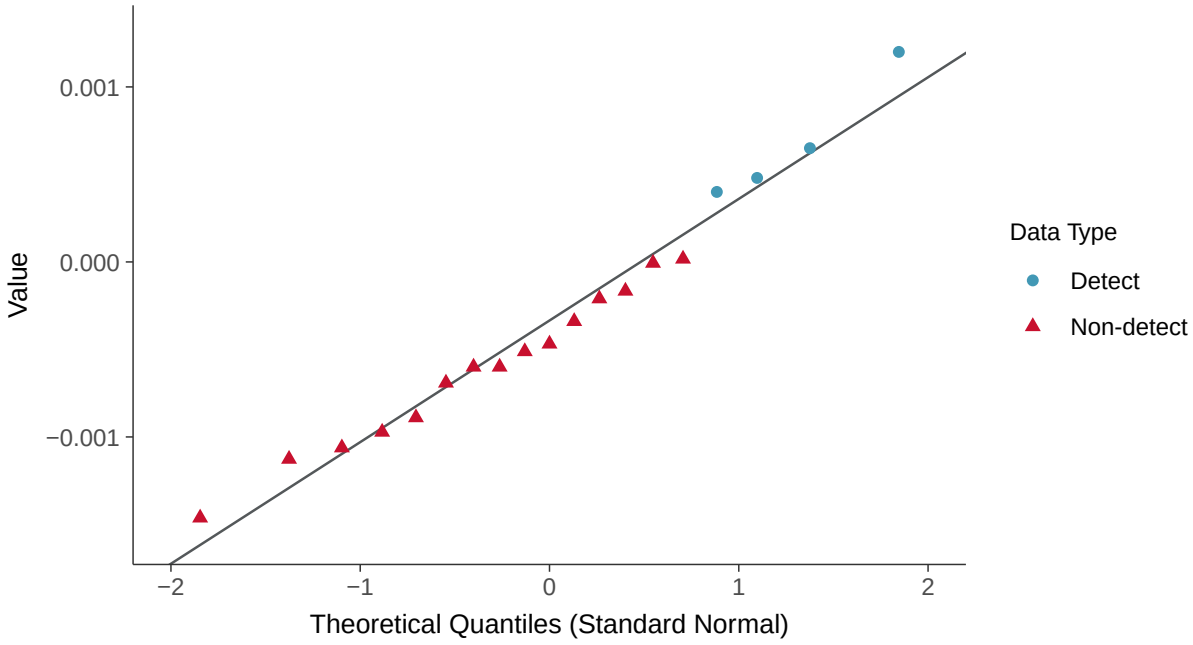
Boxplot by Season

Antimony, MW-30 (mg/L)



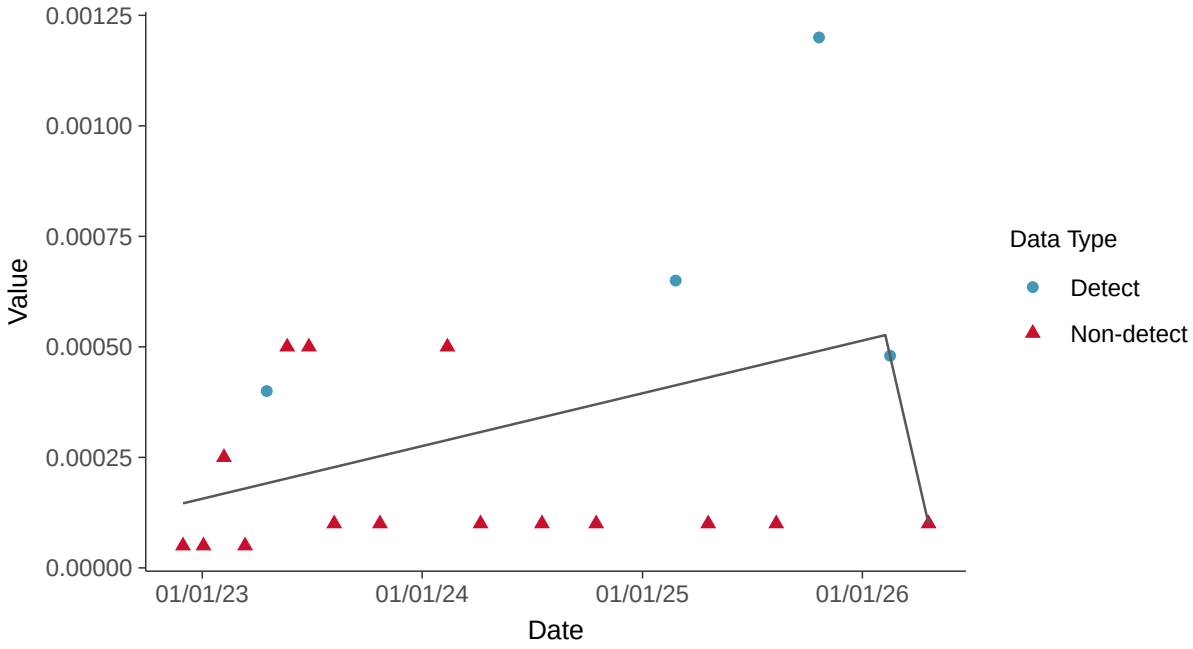
Normal Q-Q plot using ROS Imputed Estimates

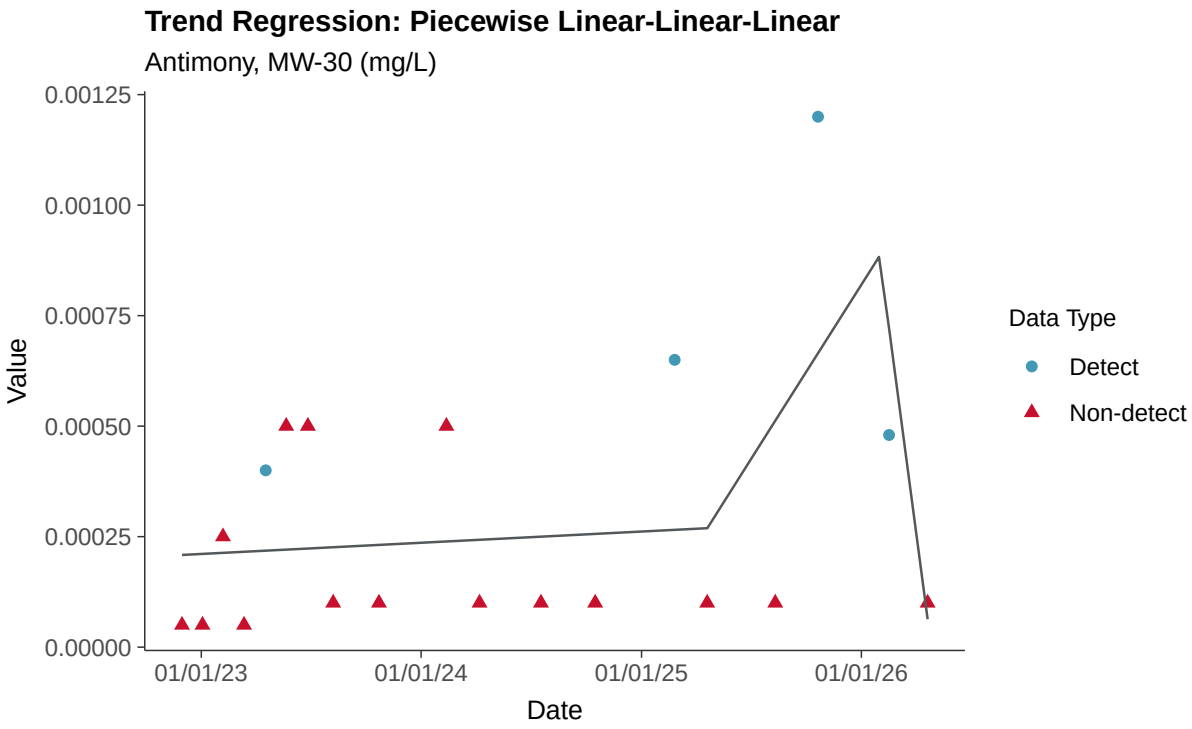
Antimony, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-30 (mg/L)



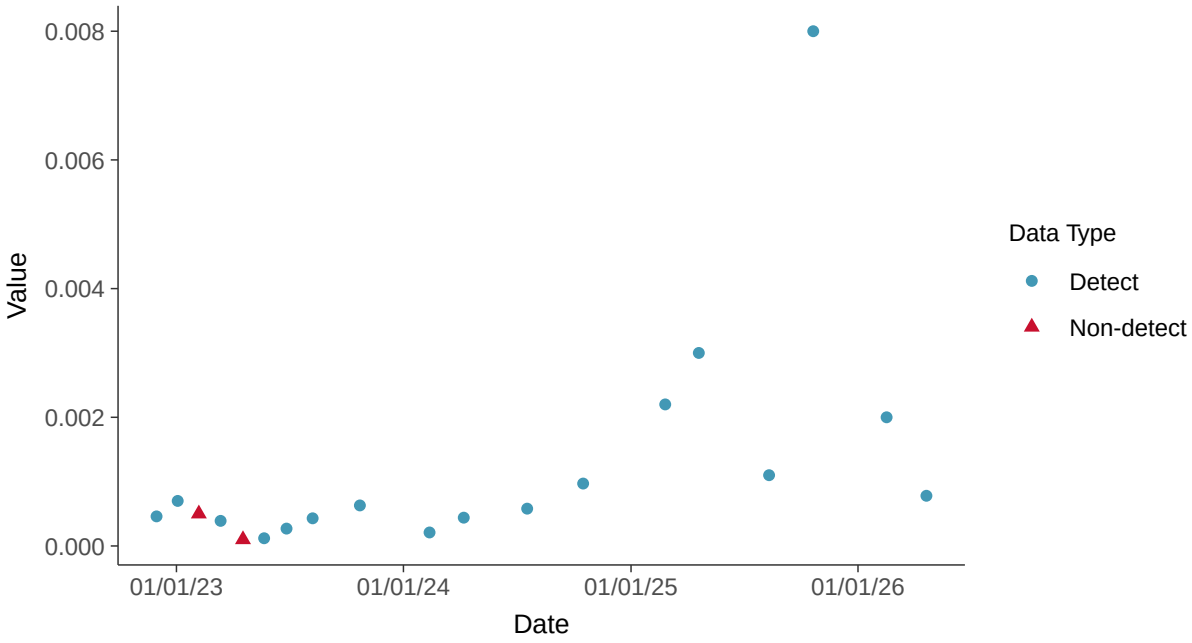

Trend Regression: Piecewise Linear-Linear-Linear
Antimony, MW-30 (mg/L)
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Arsenic, MW-30

ID: 40_1_4_102

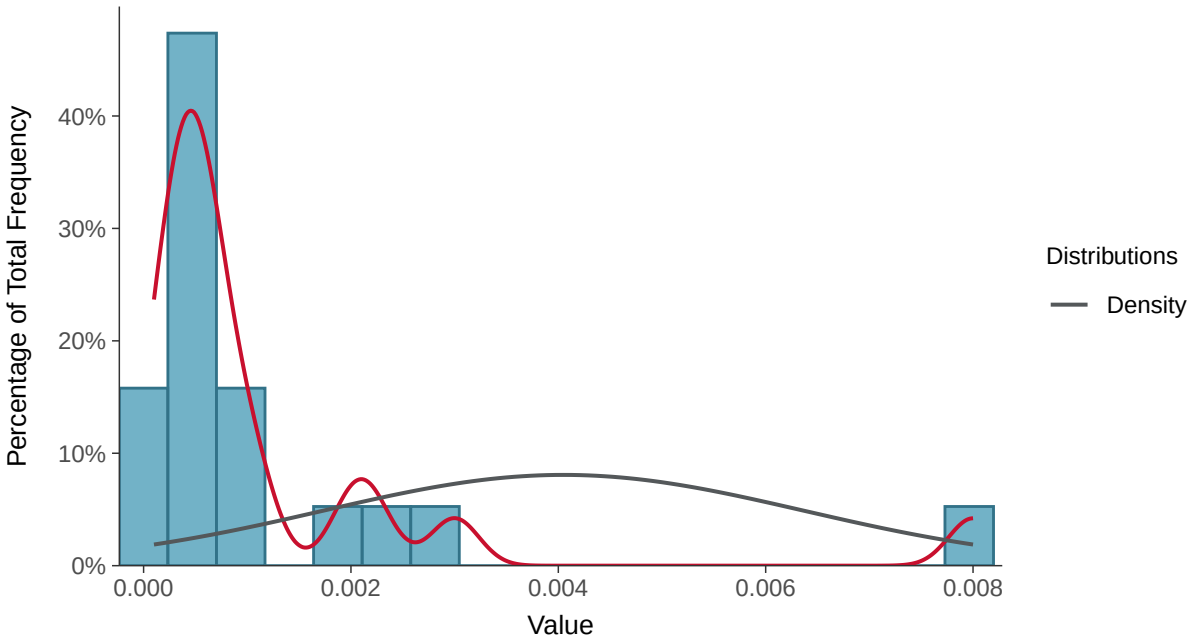
Scatter Plot

Arsenic, MW-30 (mg/L)



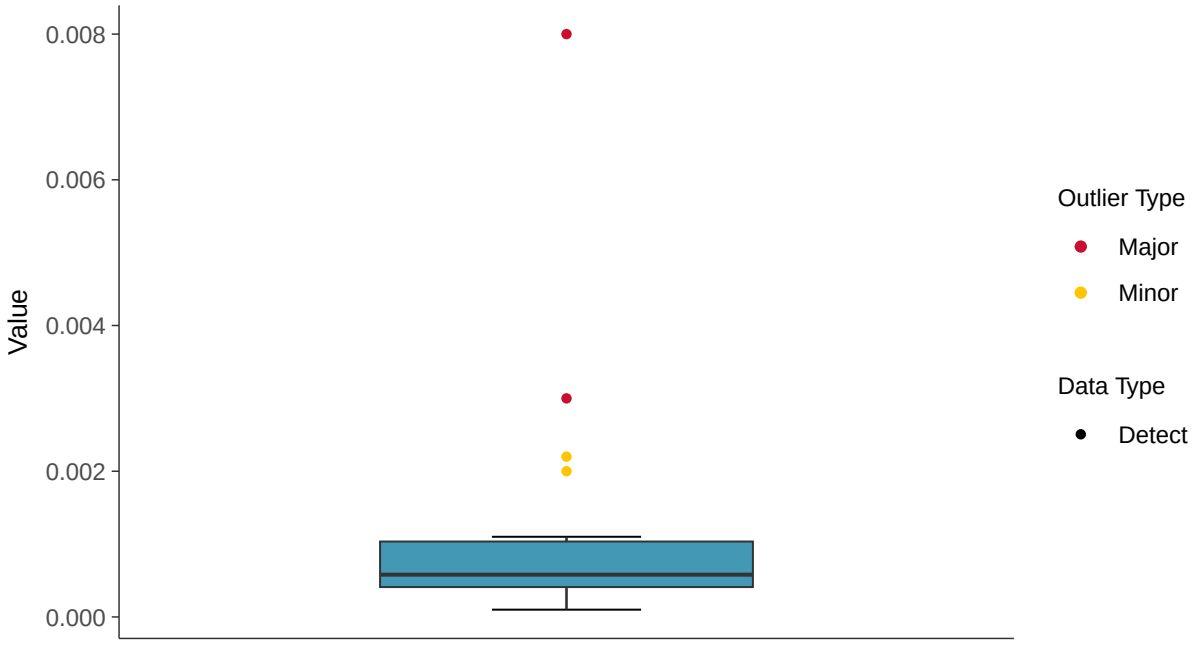
Histogram

Arsenic, MW-30 (mg/L)



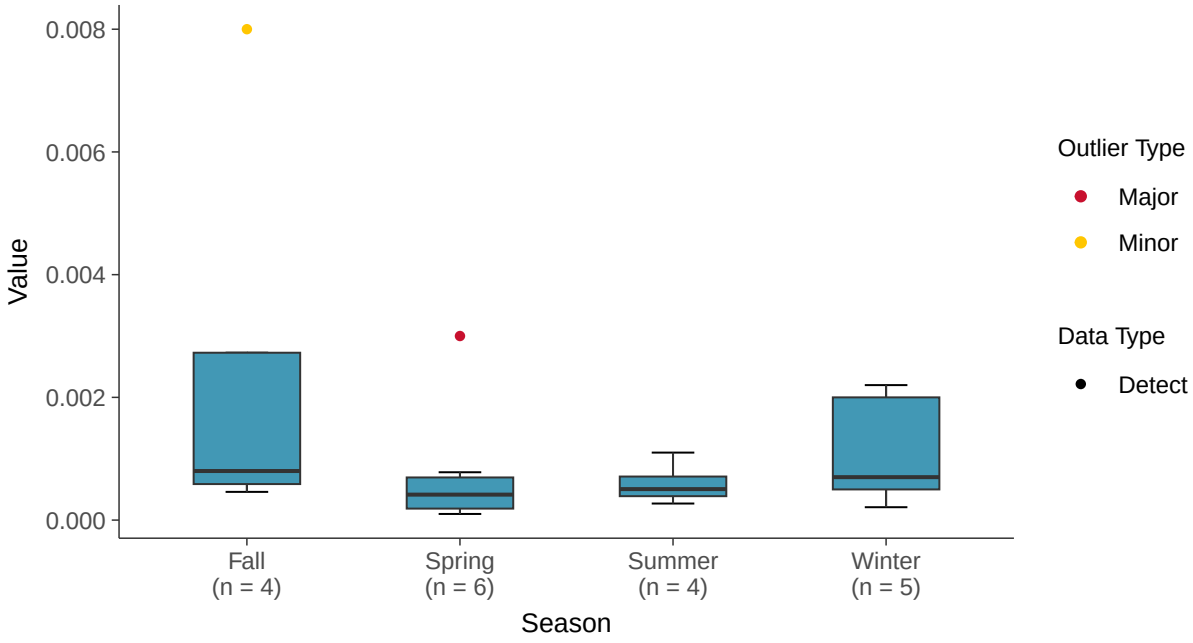
Boxplot

Arsenic, MW-30 (mg/L)



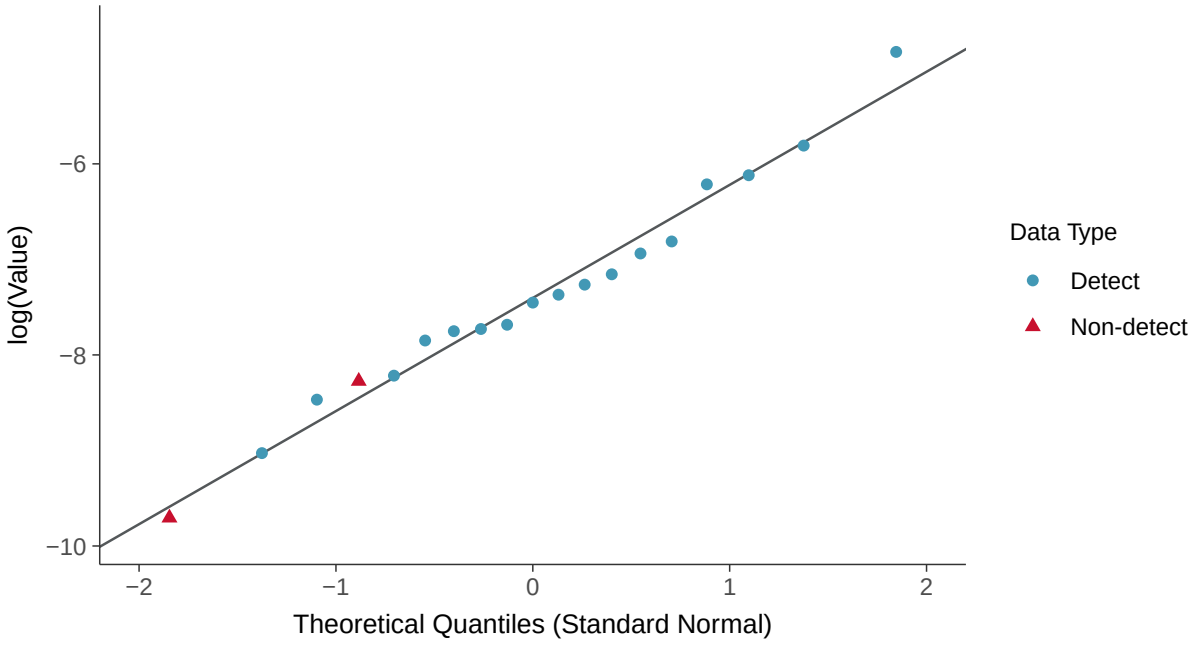
Boxplot by Season

Arsenic, MW-30 (mg/L)



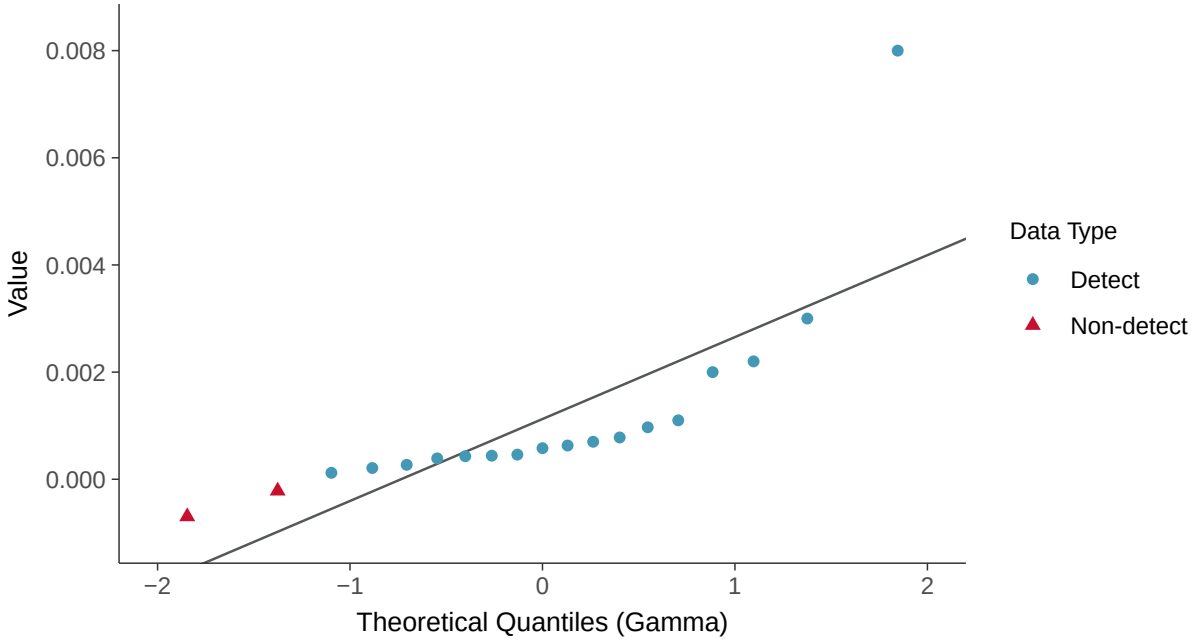
Lognormal Q-Q plot using ROS Imputed Estimates

Arsenic, MW-30 (mg/L)



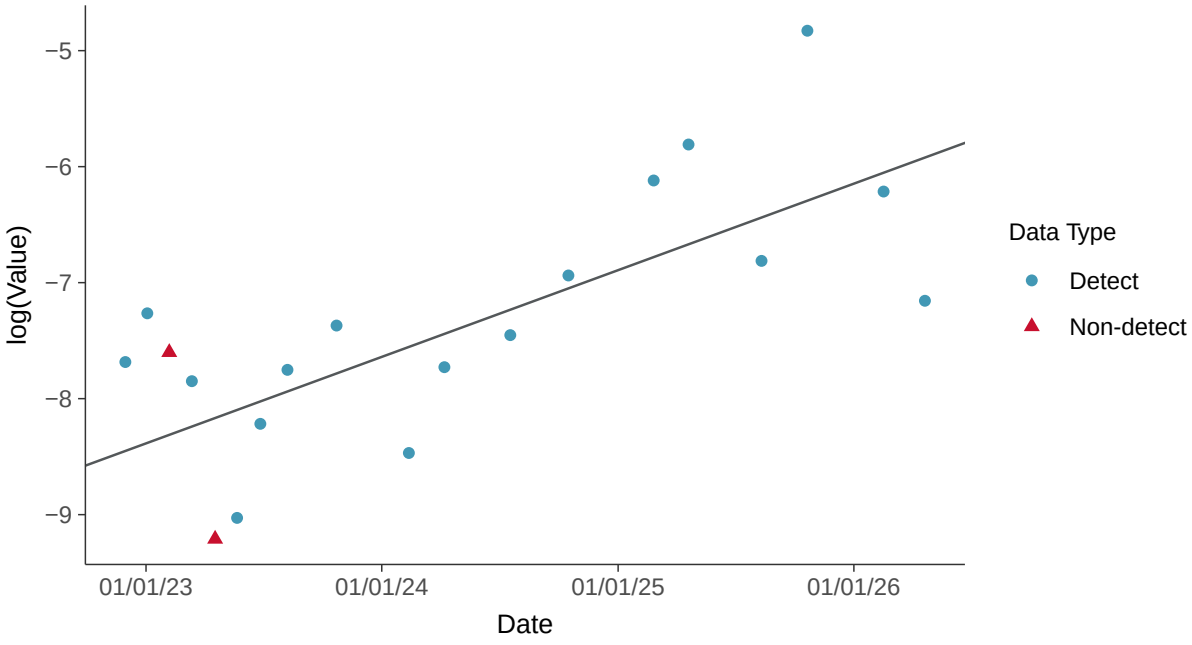
Gamma Q-Q plot using ROS Imputed Estimates

Arsenic, MW-30 (mg/L)



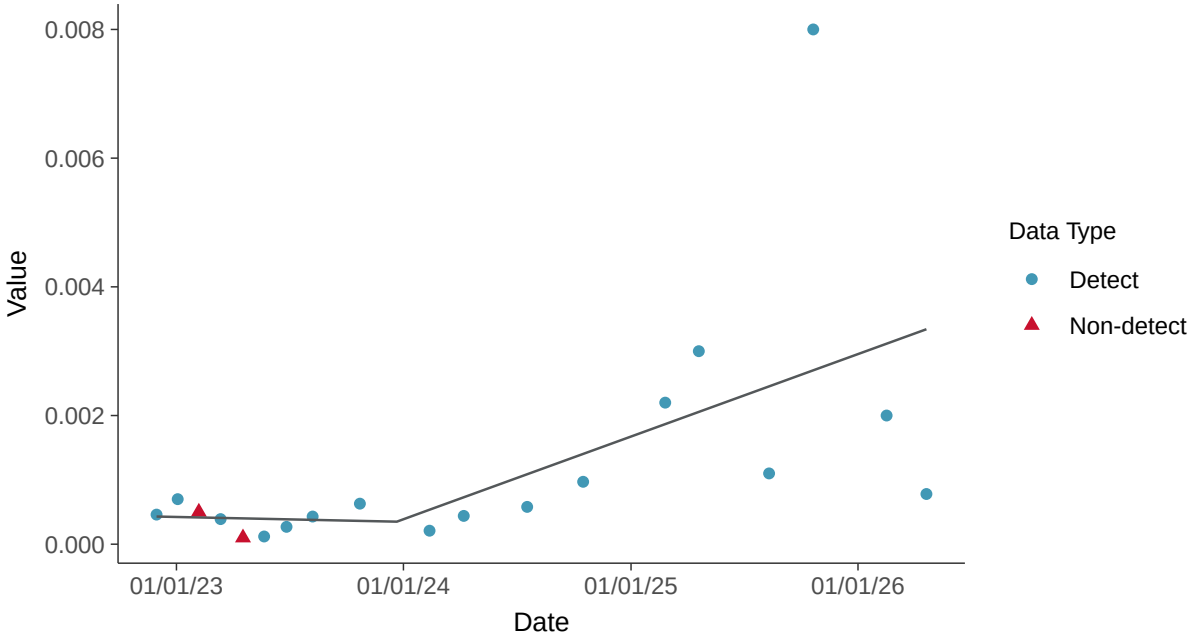
Trend Regression: Lognormal MLE

Arsenic, MW-30 (mg/L)



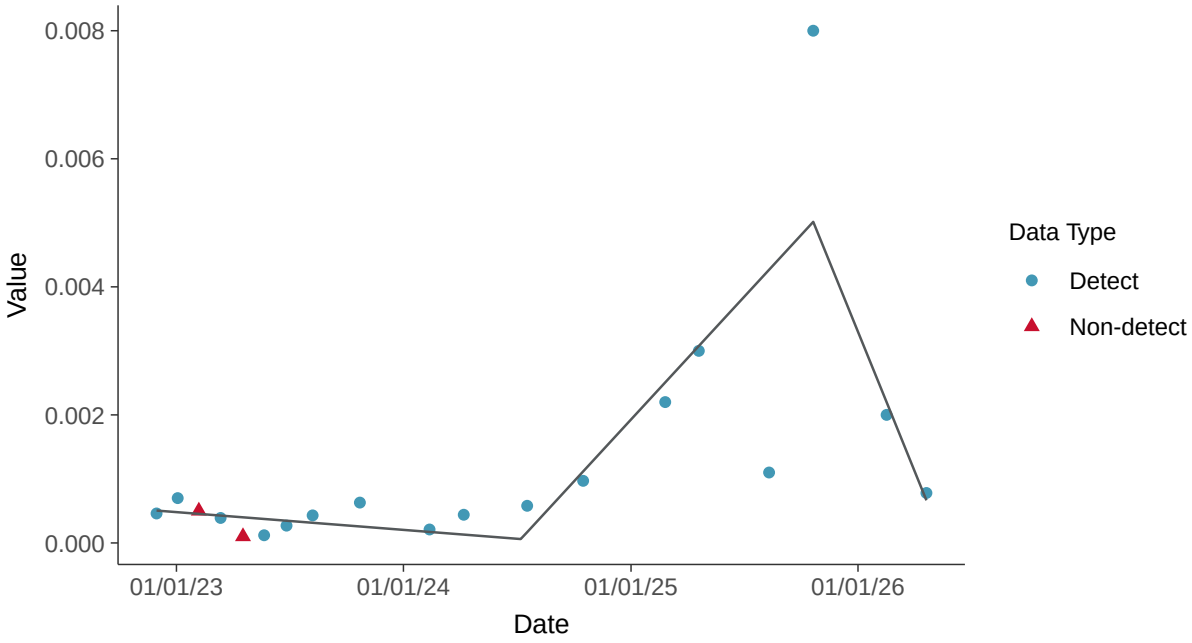
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-30 (mg/L)

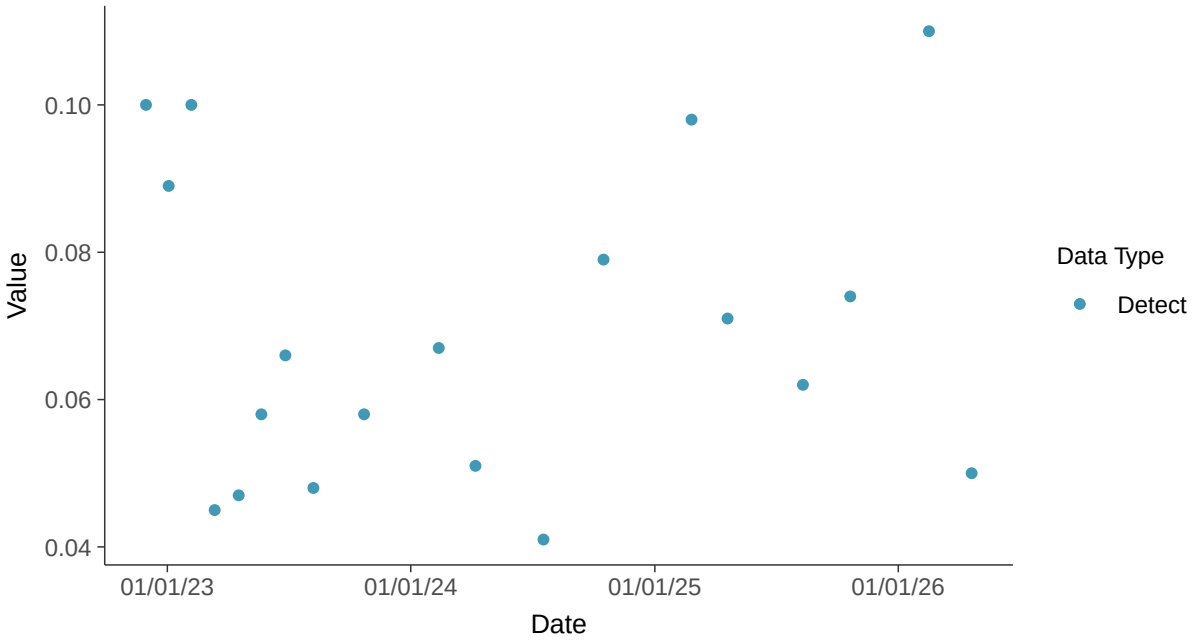


Appendix IV: Barium, MW-30

ID: 40_1_4_103

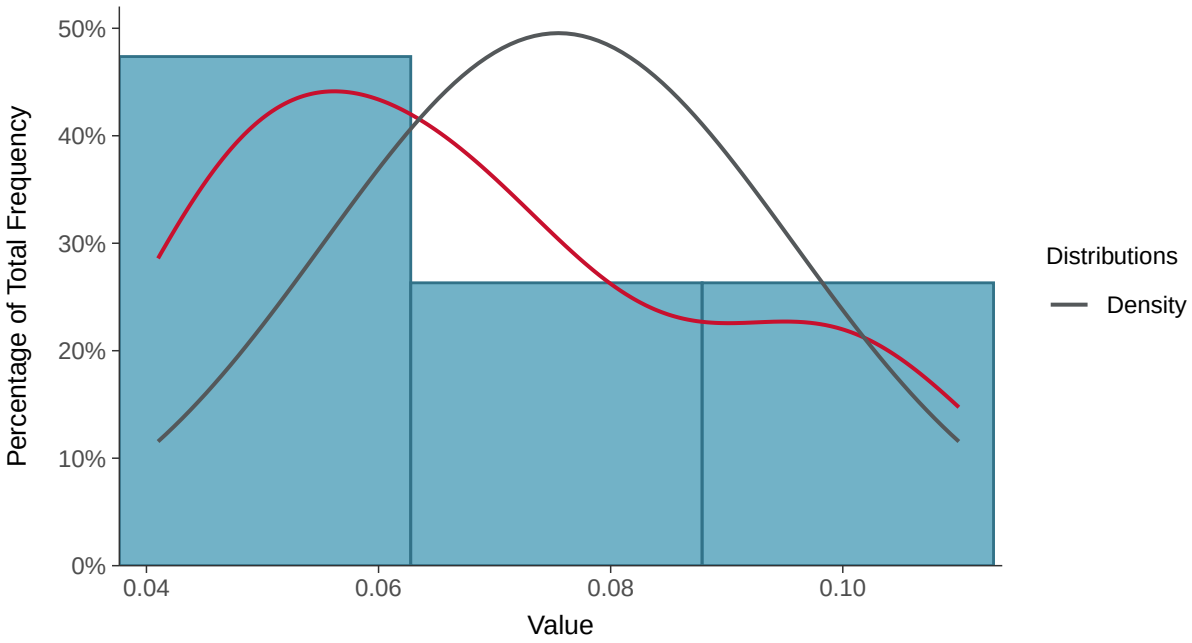
Scatter Plot

Barium, MW-30 (mg/L)



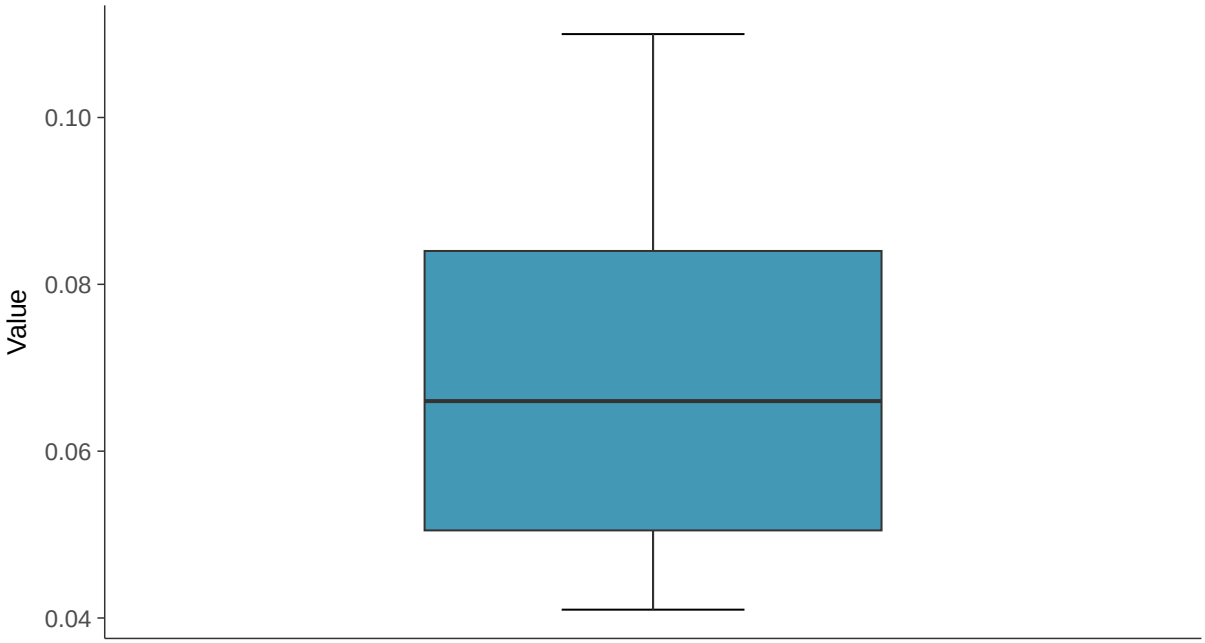
Histogram

Barium, MW-30 (mg/L)



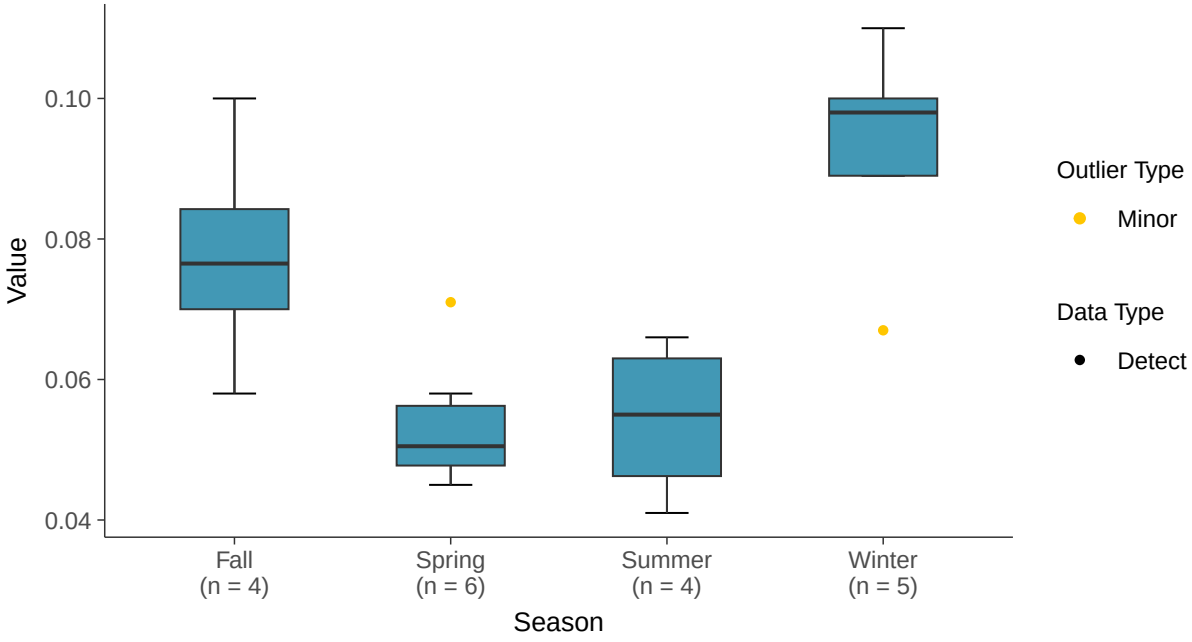
Boxplot

Barium, MW-30 (mg/L)



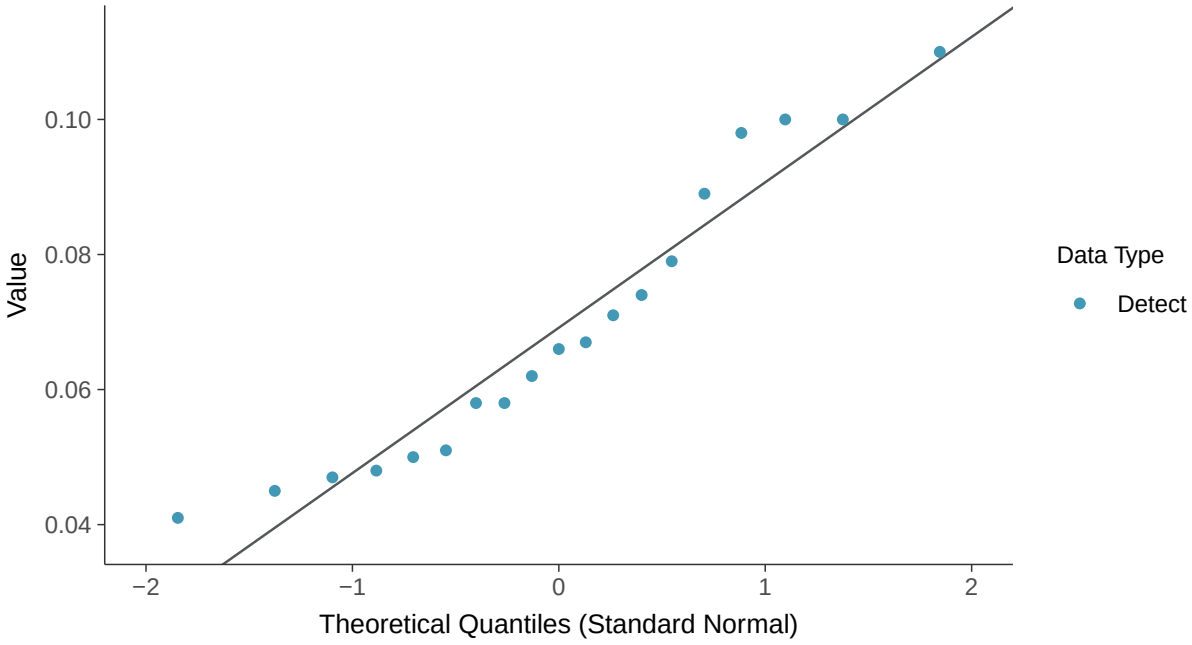
Boxplot by Season

Barium, MW-30 (mg/L)



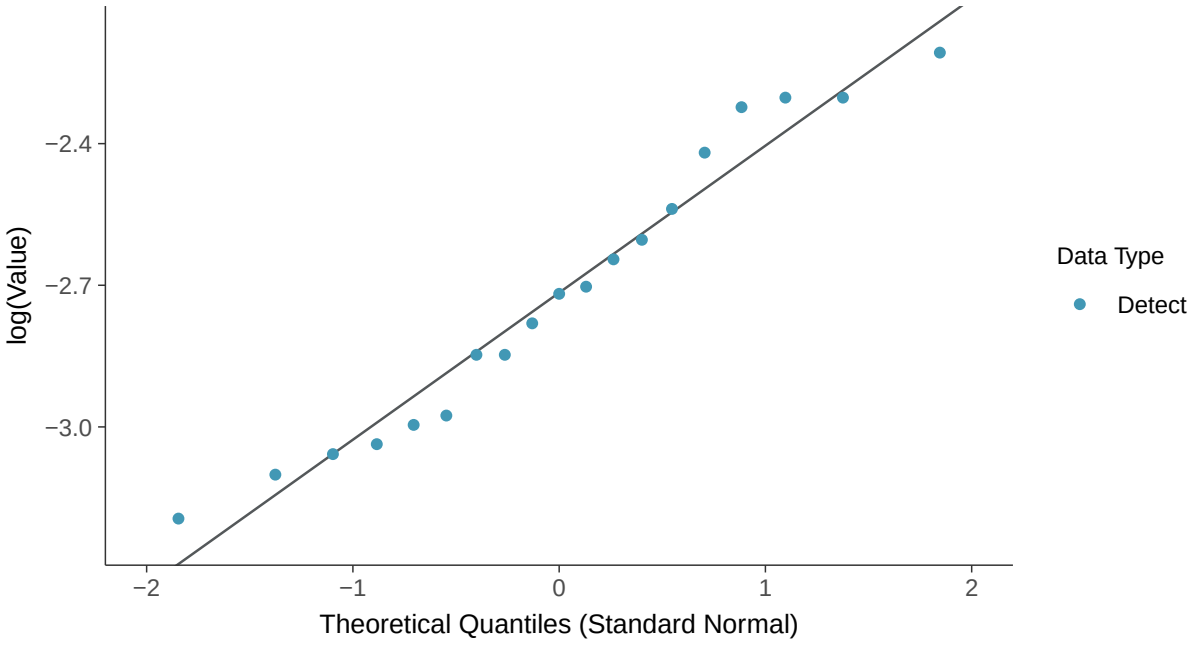
Normal Q-Q plot

Barium, MW-30 (mg/L)



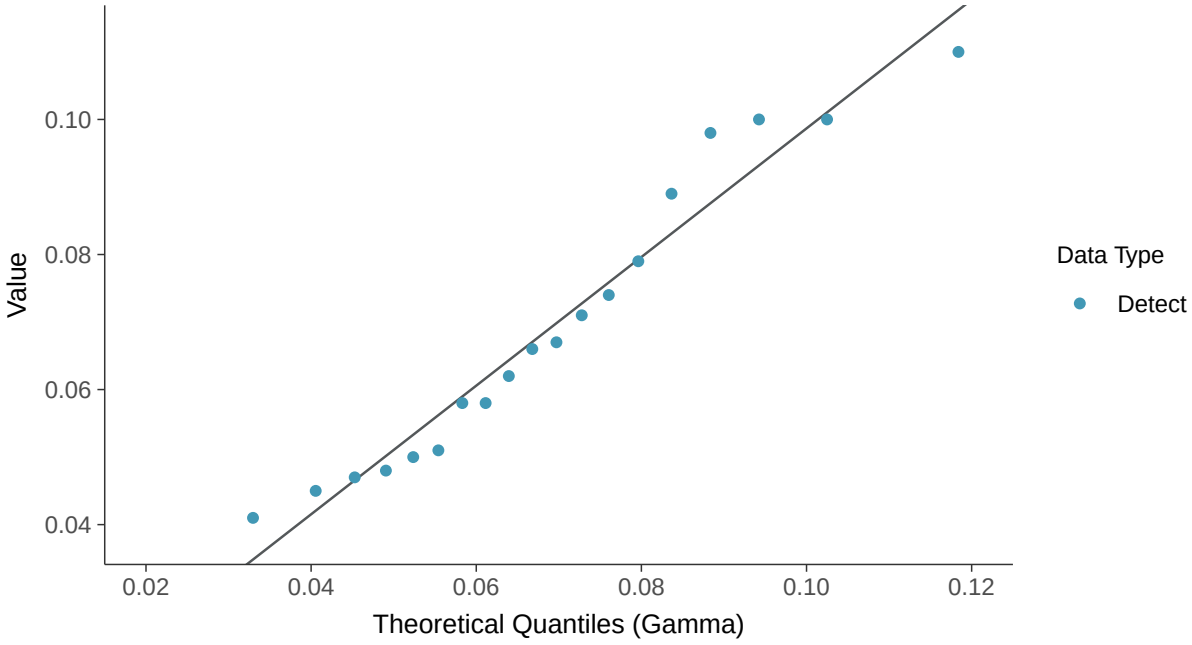
Lognormal Q-Q plot

Barium, MW-30 (mg/L)



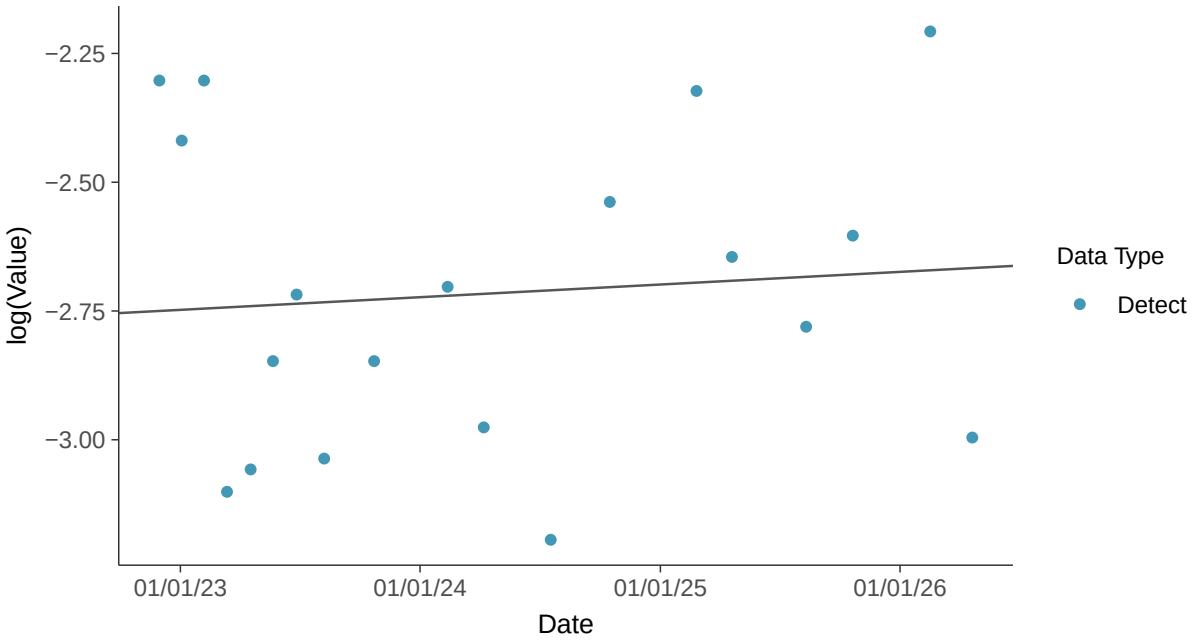
Gamma Q-Q plot

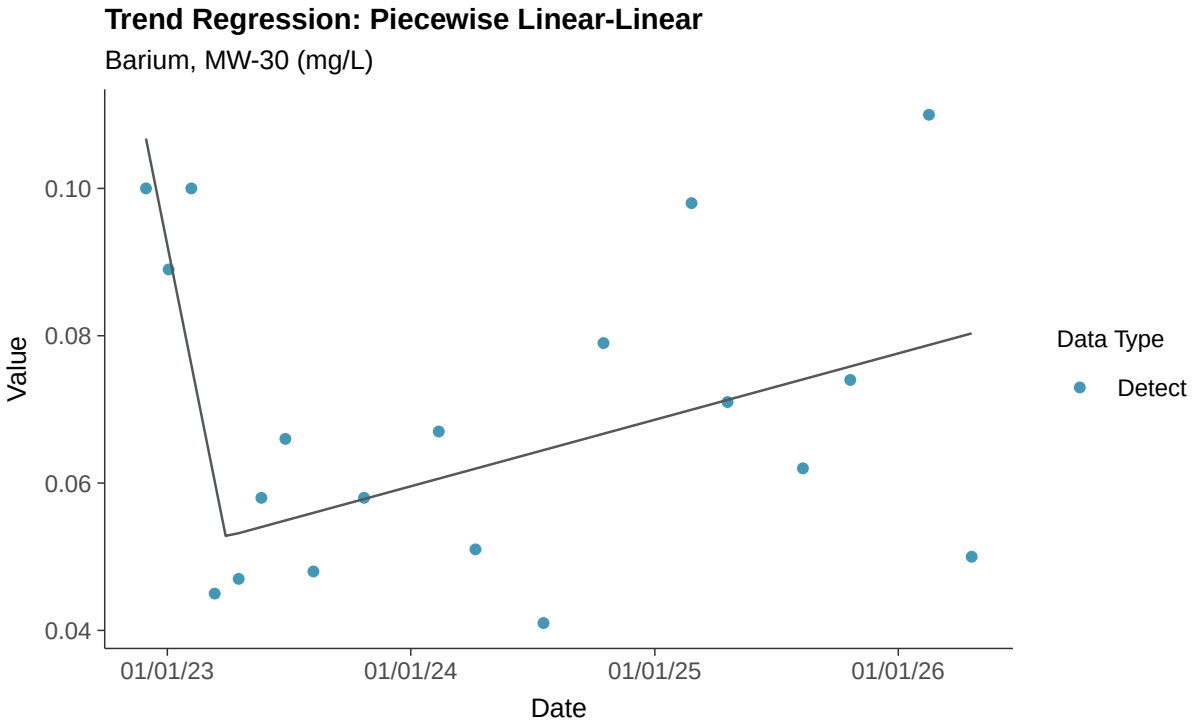
Barium, MW-30 (mg/L)



Trend Regression: Lognormal MLE

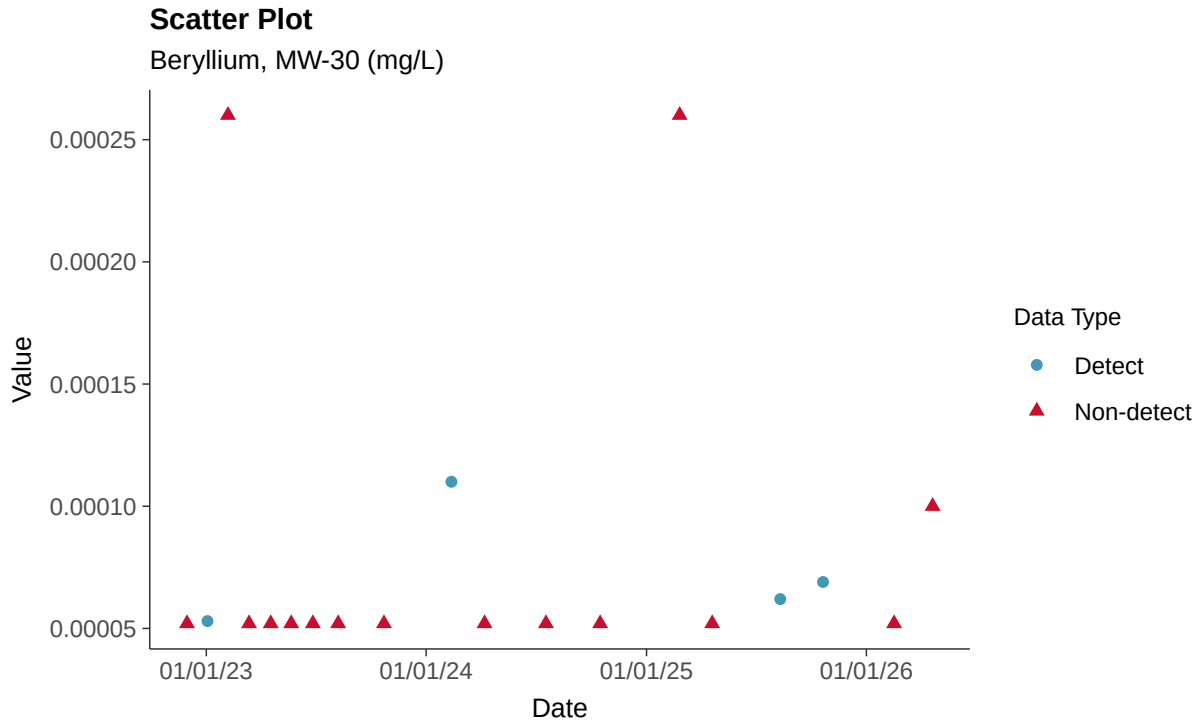
Barium, MW-30 (mg/L)

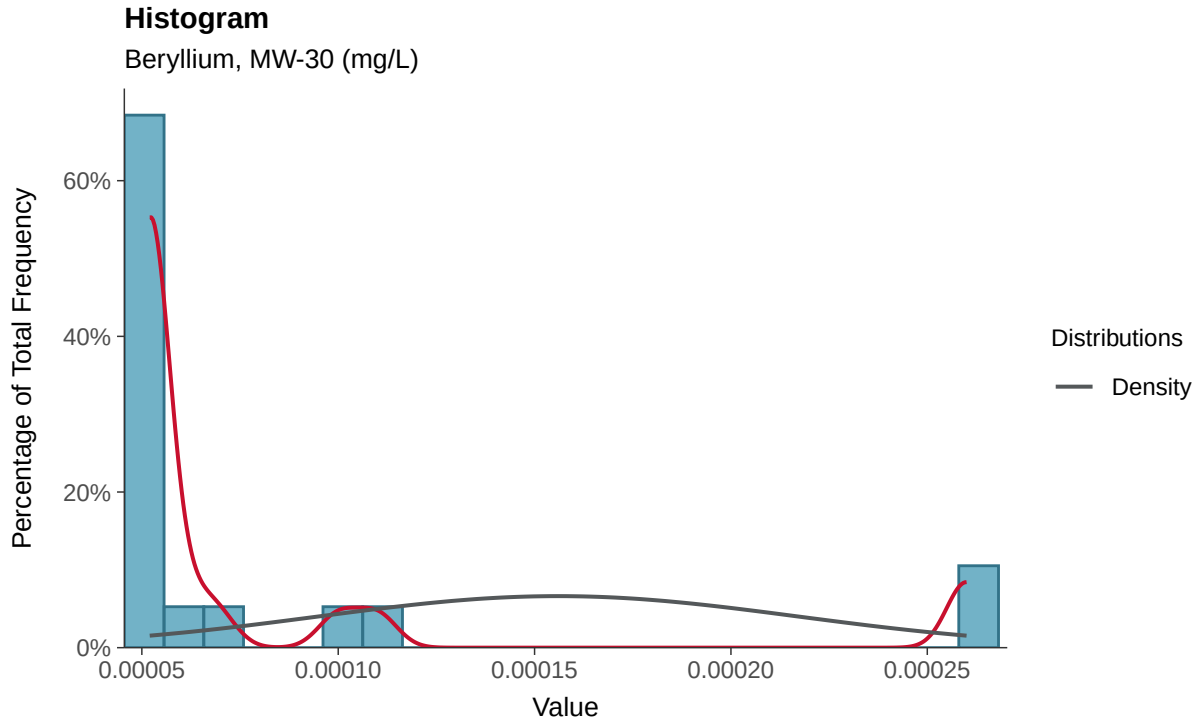



Trend Regression: Piecewise Linear-Linear
Barium, MW-30 (mg/L)
Value
0.10
0.08
0.06
0.04
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Beryllium, MW-30

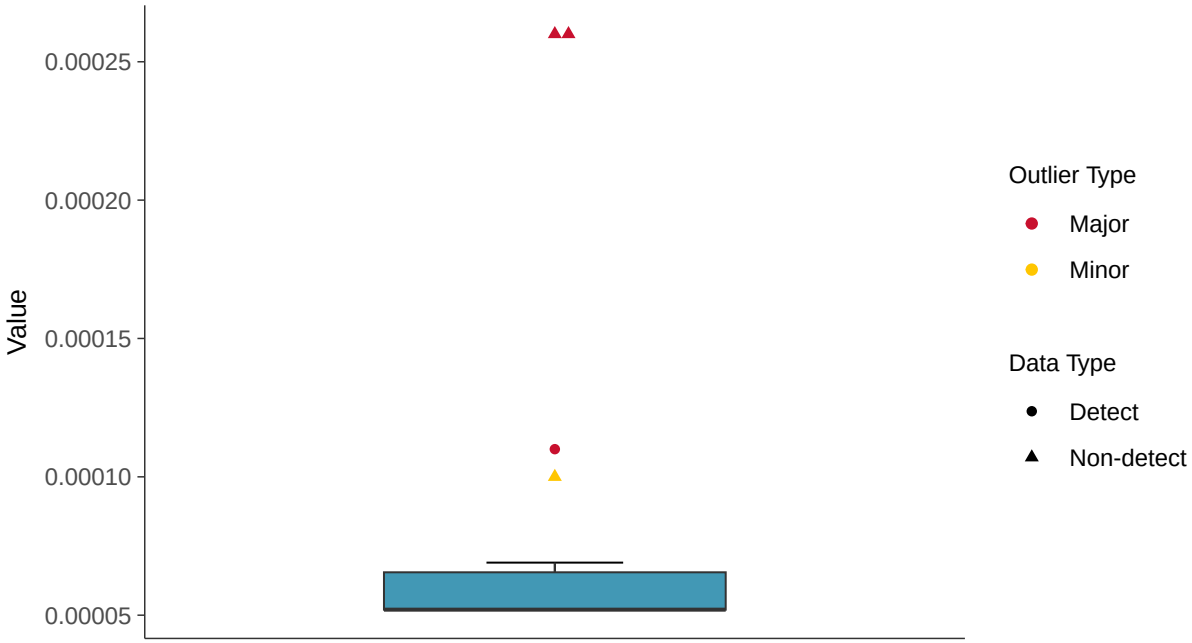
ID: 40_1_4_104





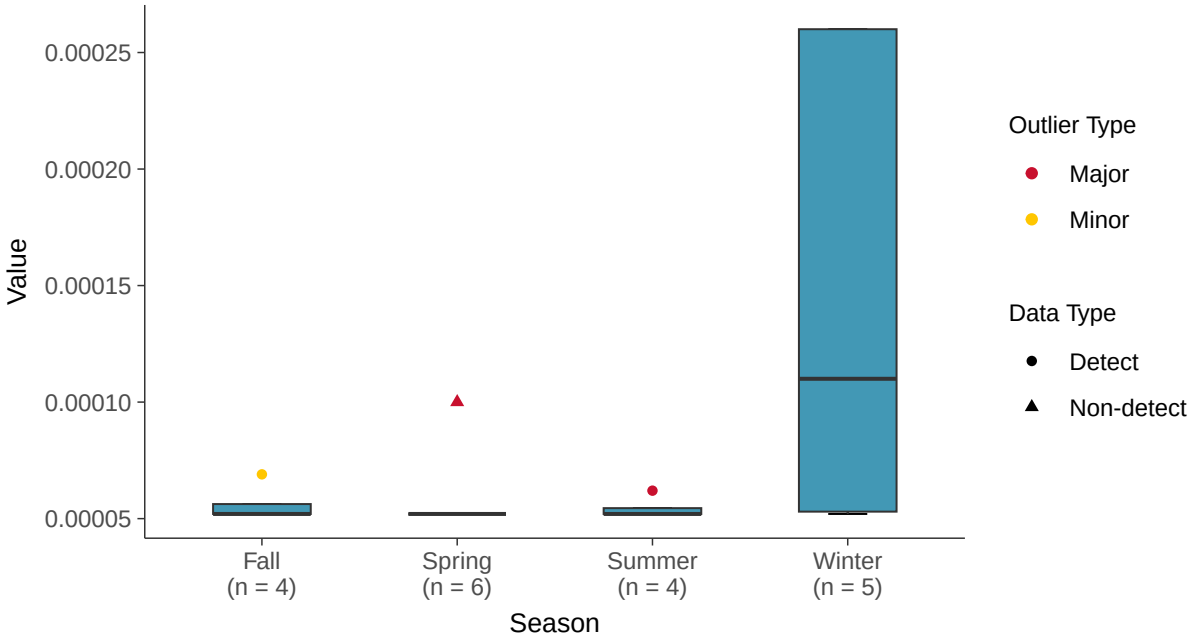
Boxplot

Beryllium, MW-30 (mg/L)



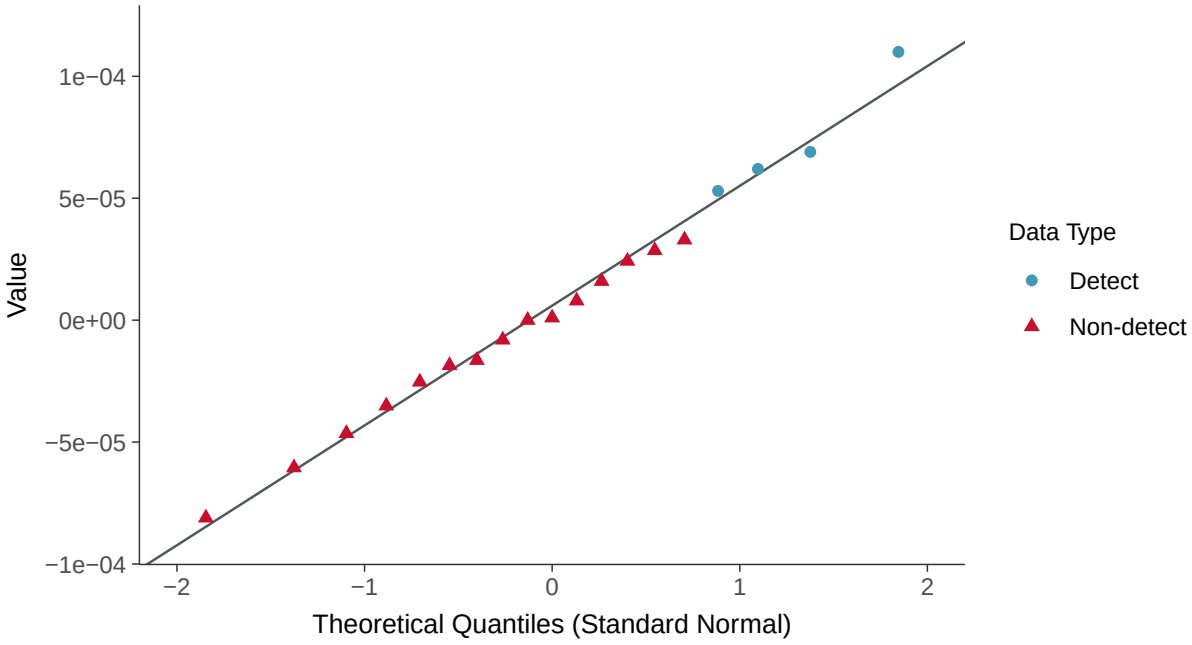
Boxplot by Season

Beryllium, MW-30 (mg/L)



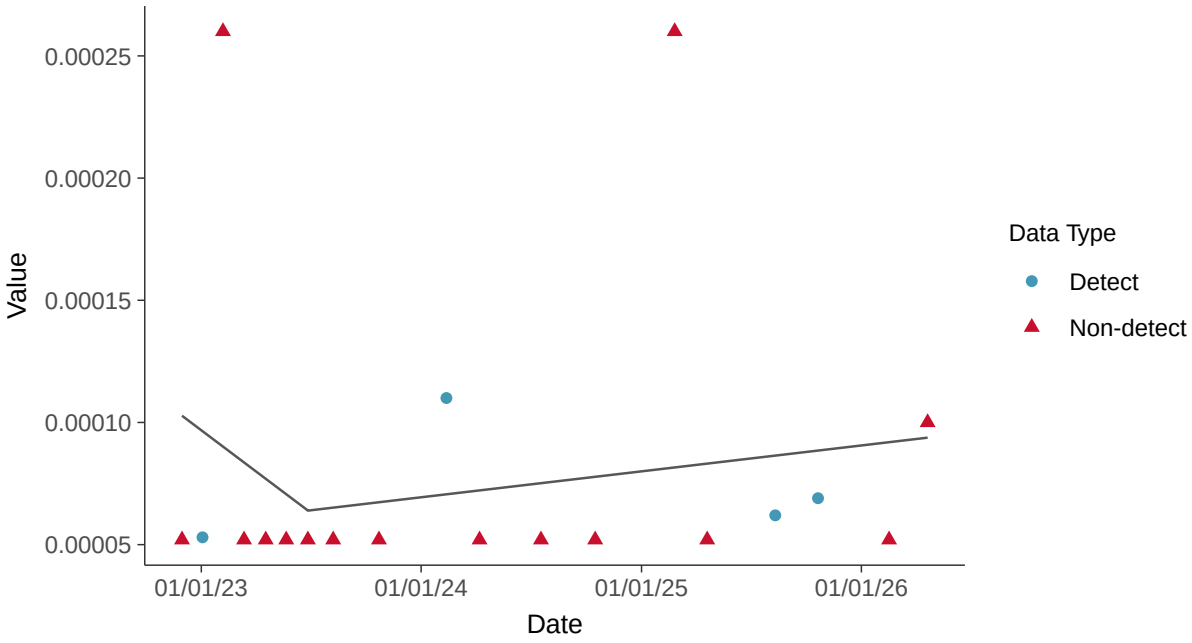
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-30 (mg/L)



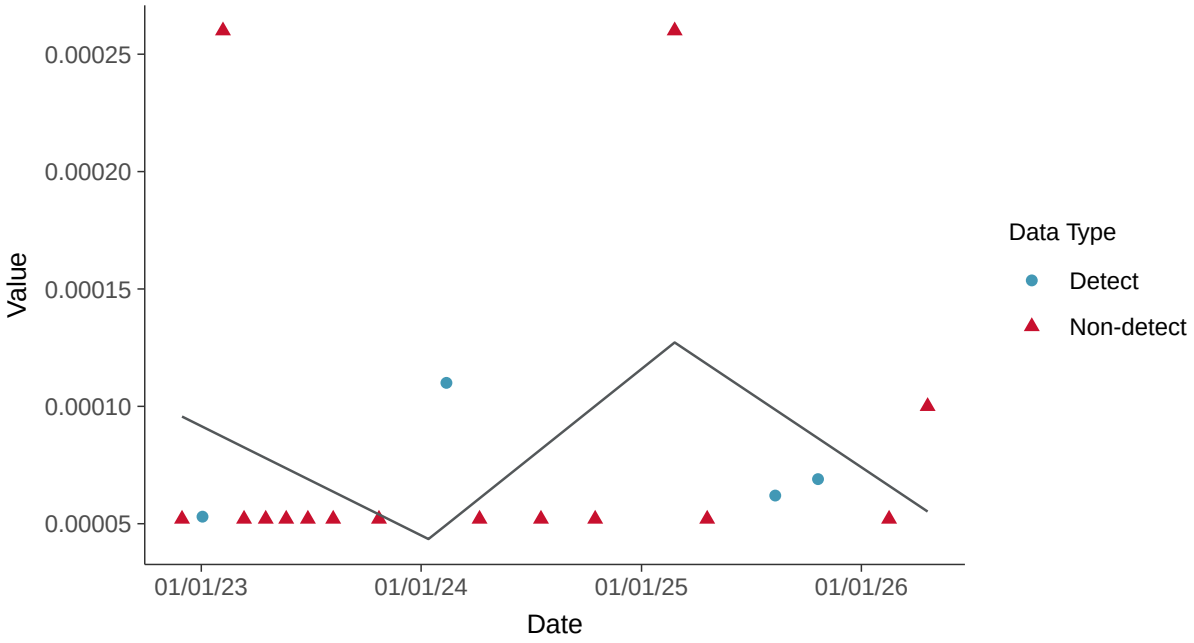
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Beryllium, MW-30 (mg/L)

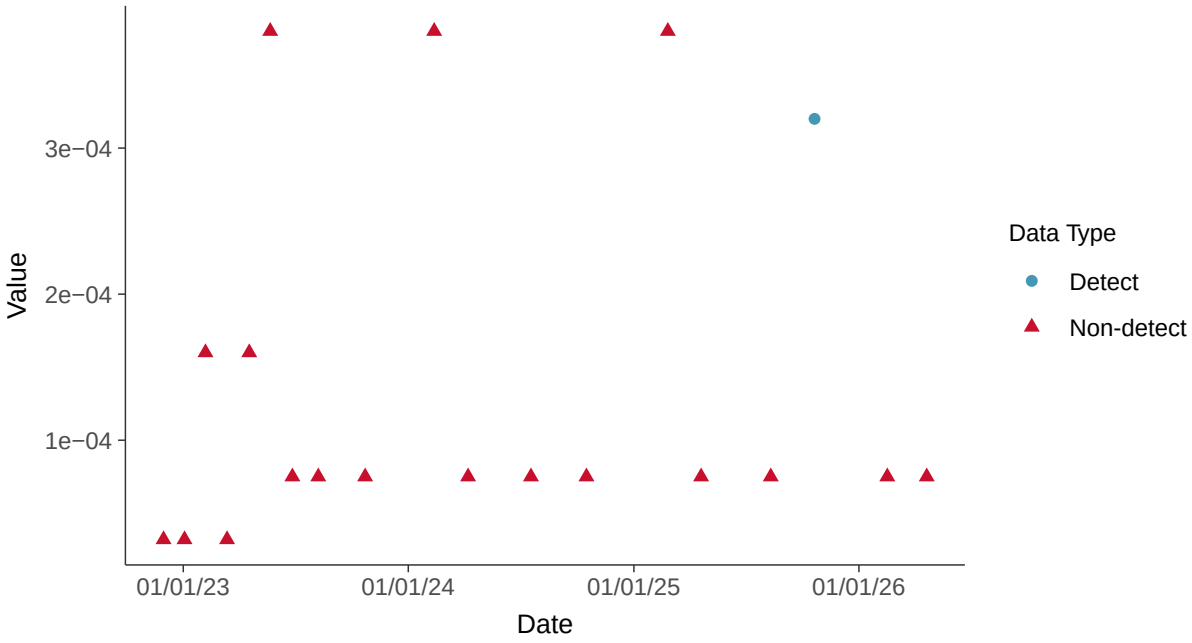


Appendix IV: Cadmium, MW-30

ID: 40_1_4_106

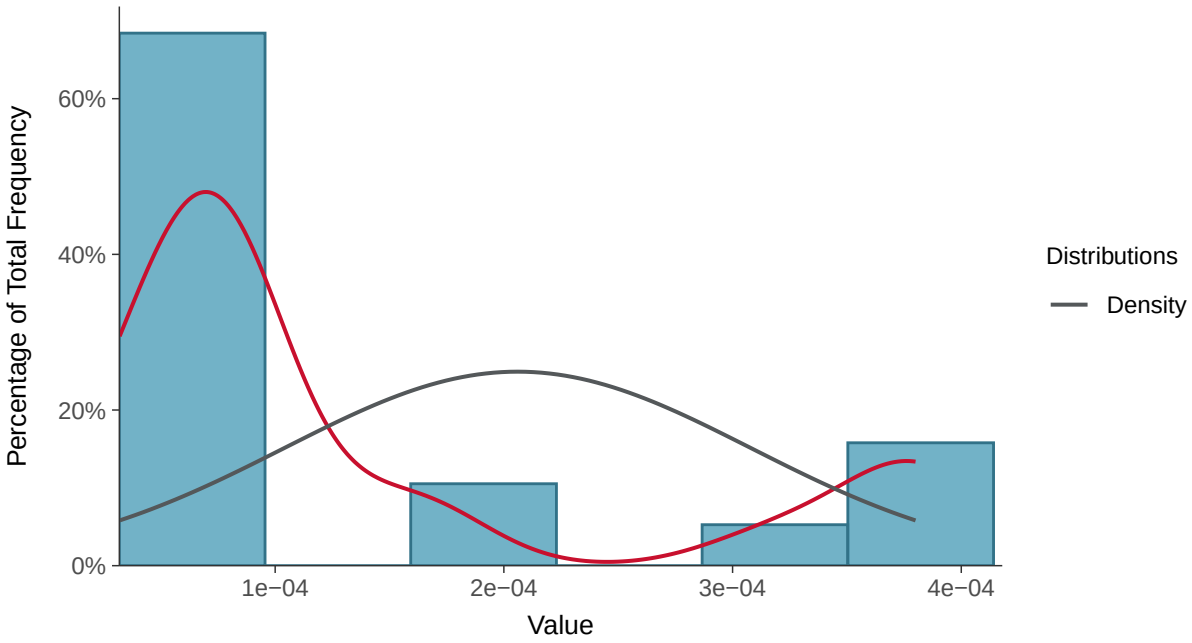
Scatter Plot

Cadmium, MW-30 (mg/L)



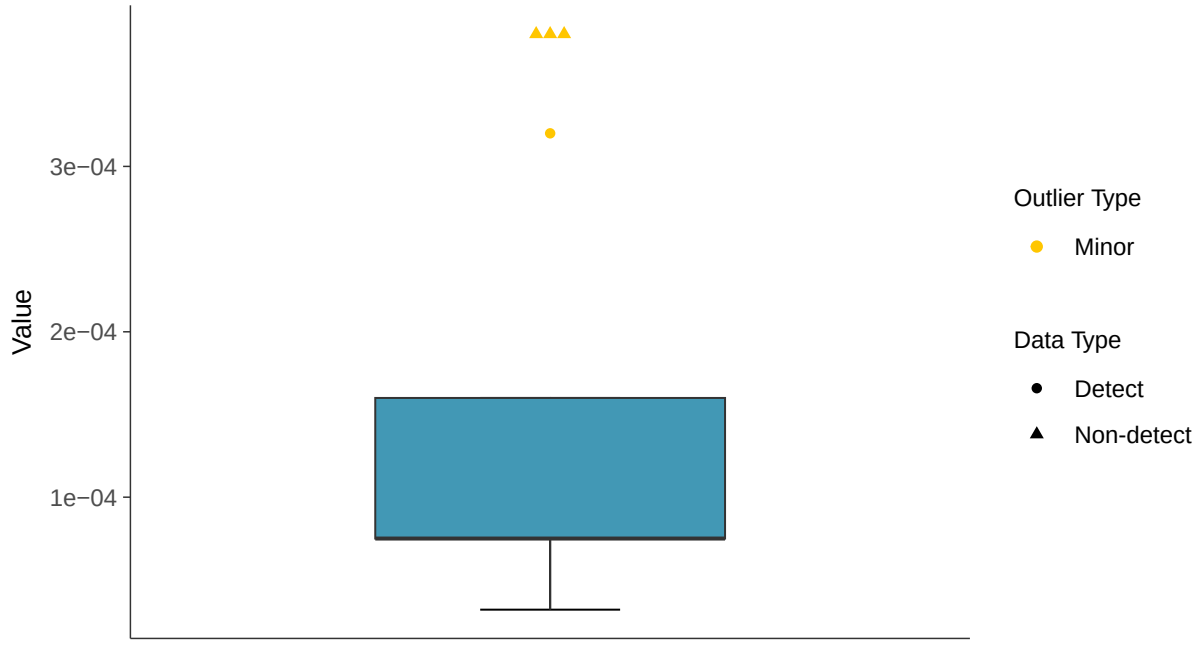
Histogram

Cadmium, MW-30 (mg/L)



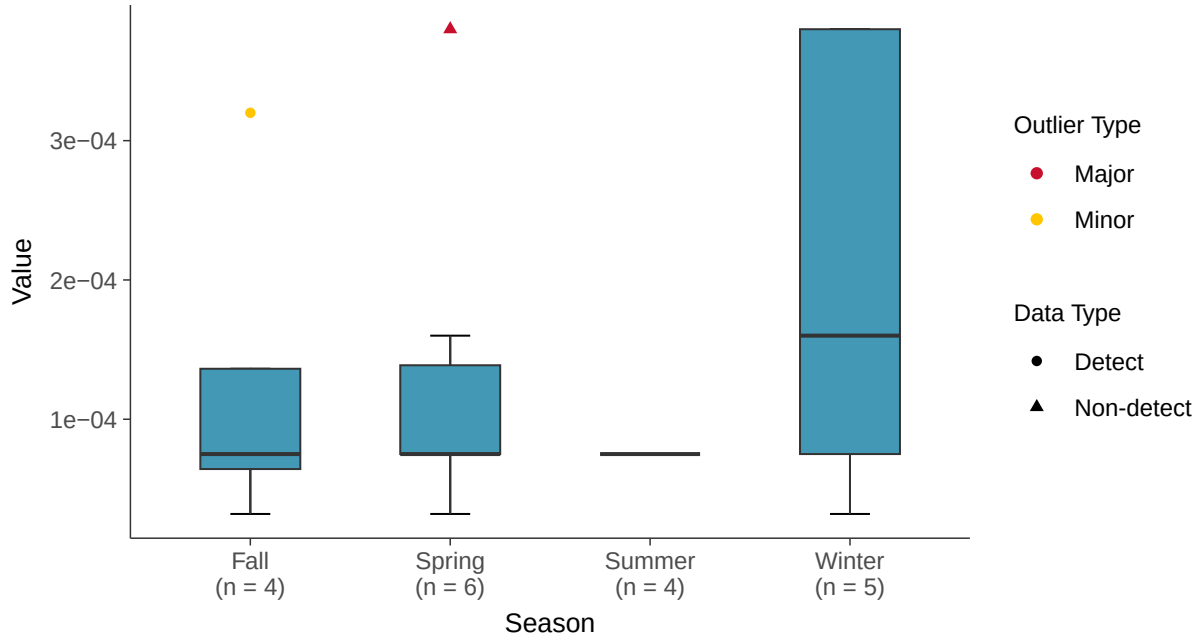
Boxplot

Cadmium, MW-30 (mg/L)



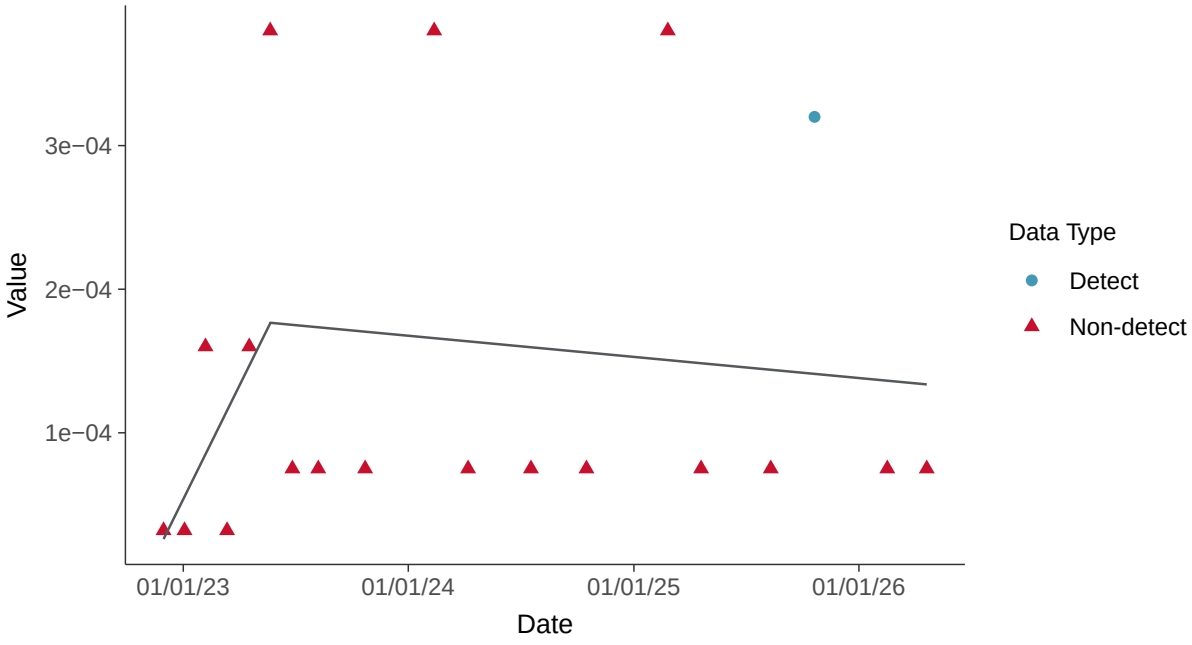
Boxplot by Season

Cadmium, MW-30 (mg/L)



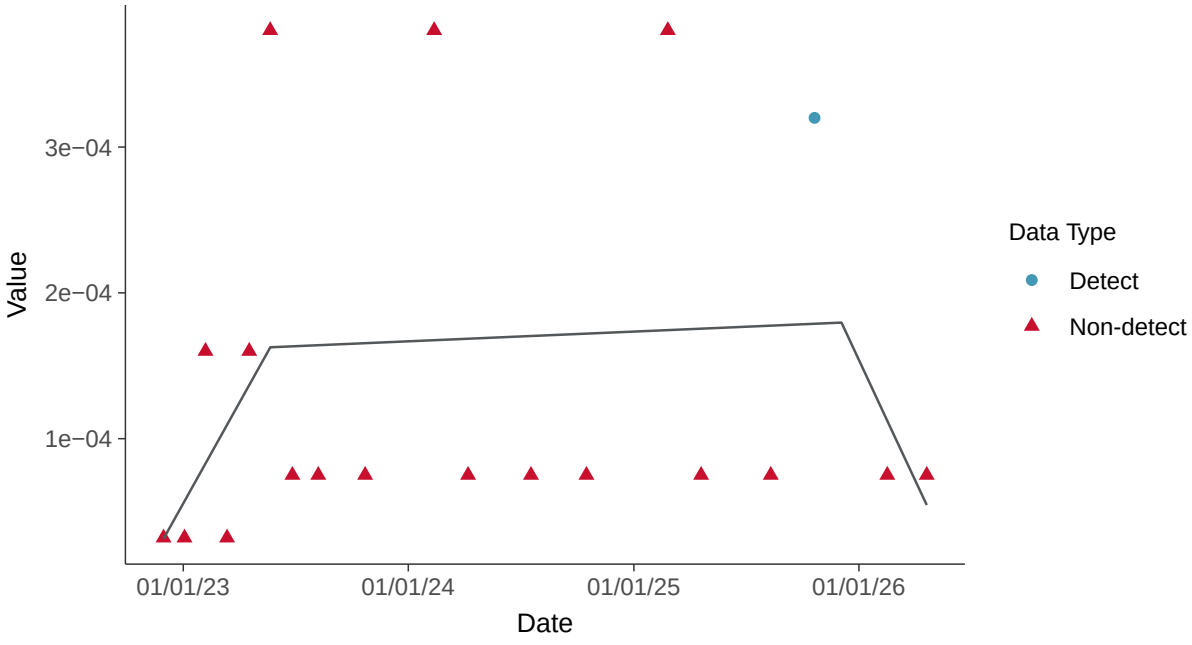
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-30 (mg/L)

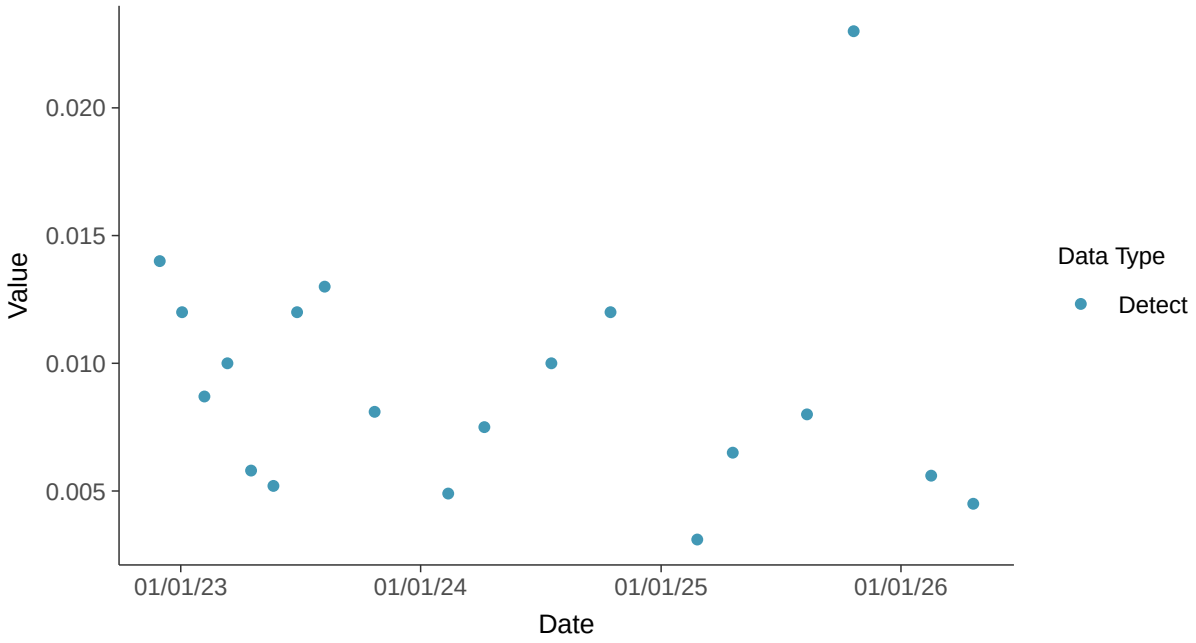


Appendix IV: Chromium, Total, MW-30

ID: 40_1_4_109

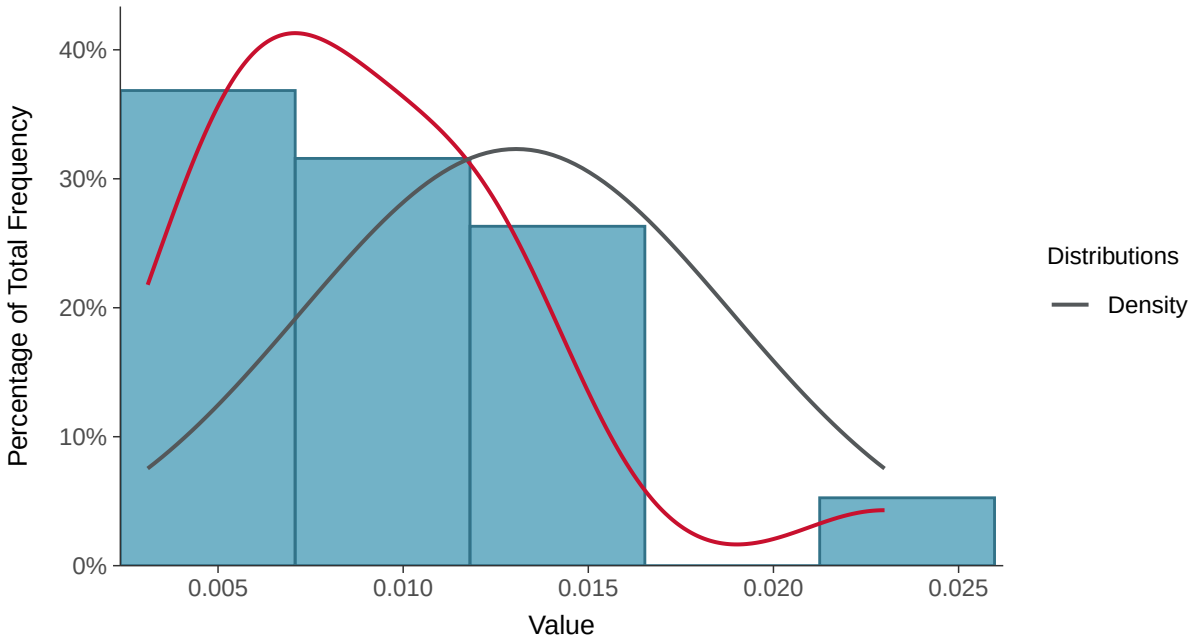
Scatter Plot

Chromium, Total, MW-30 (mg/L)



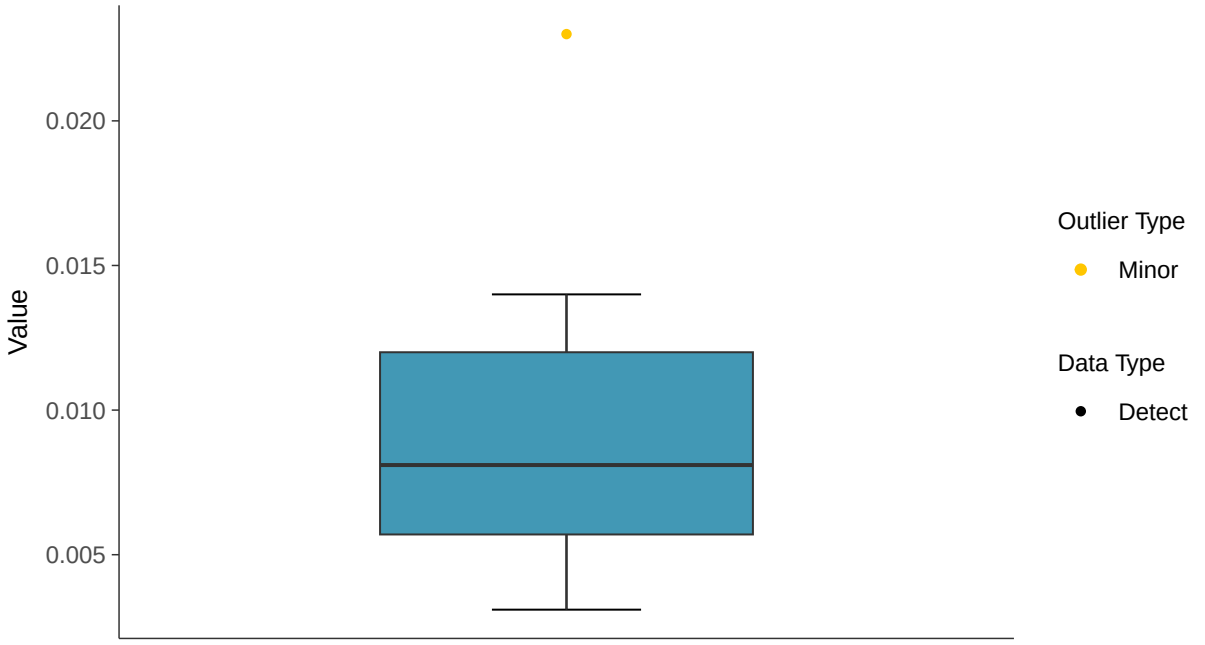
Histogram

Chromium, Total, MW-30 (mg/L)



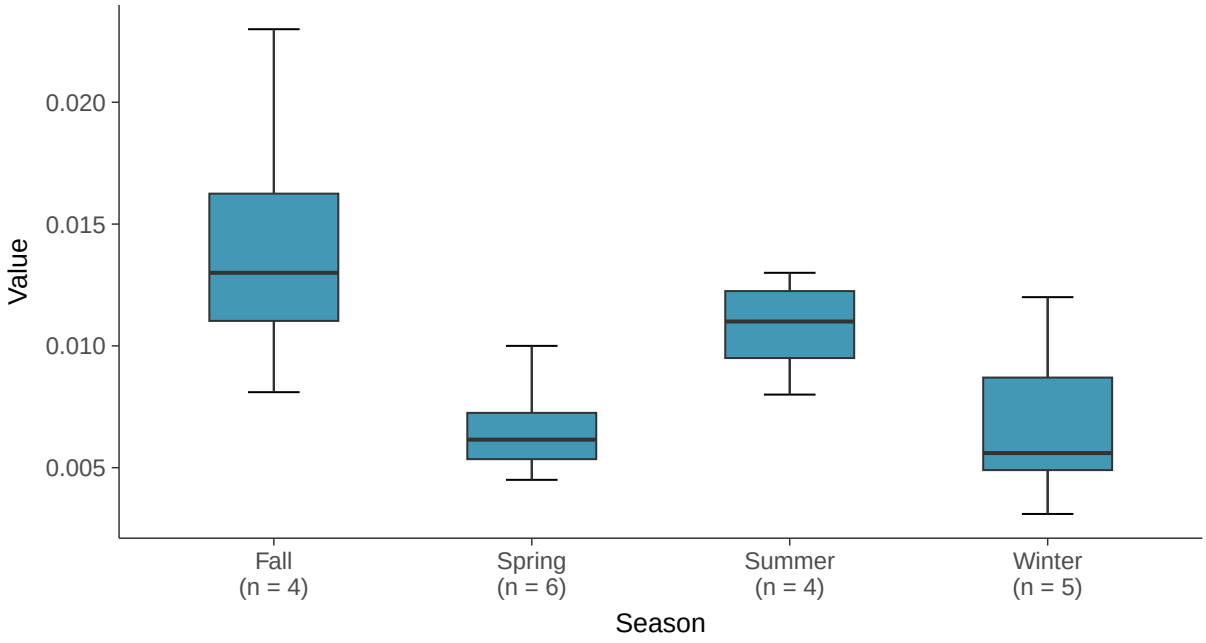
Boxplot

Chromium, Total, MW-30 (mg/L)



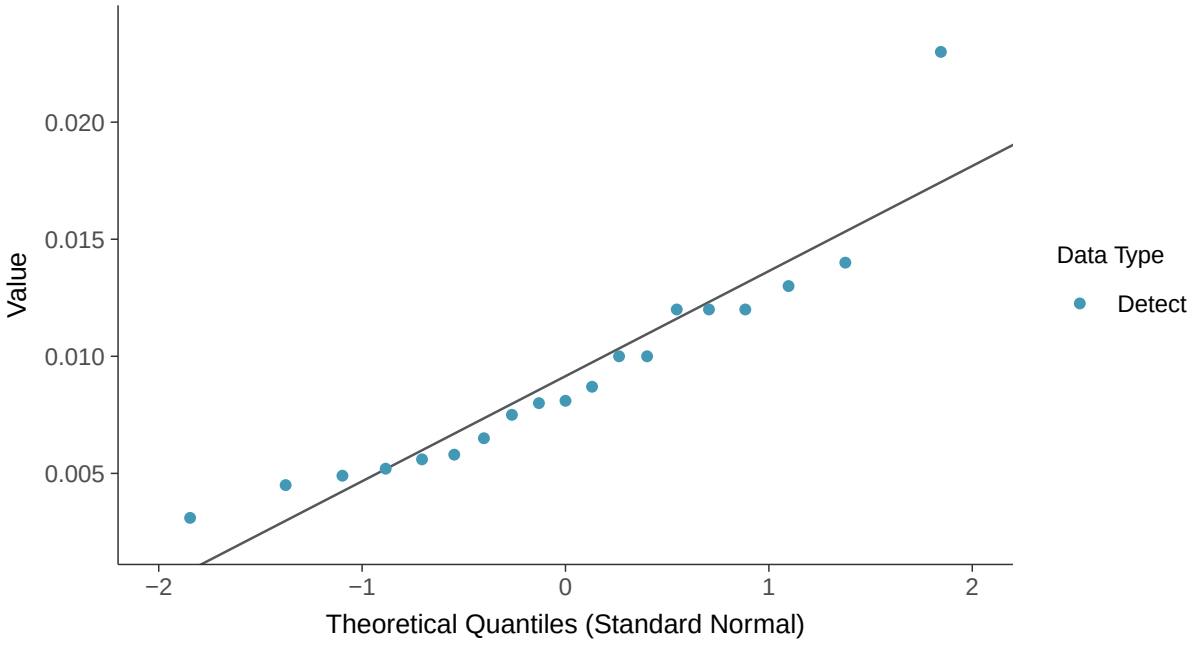
Boxplot by Season

Chromium, Total, MW-30 (mg/L)



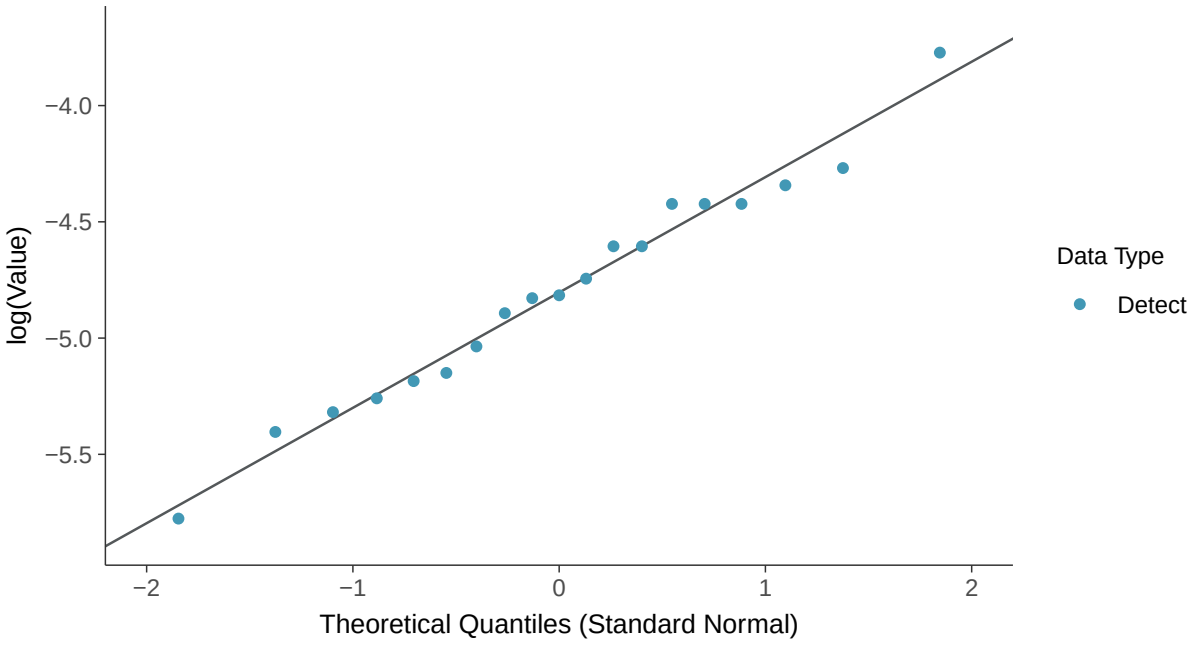
Normal Q-Q plot

Chromium, Total, MW-30 (mg/L)



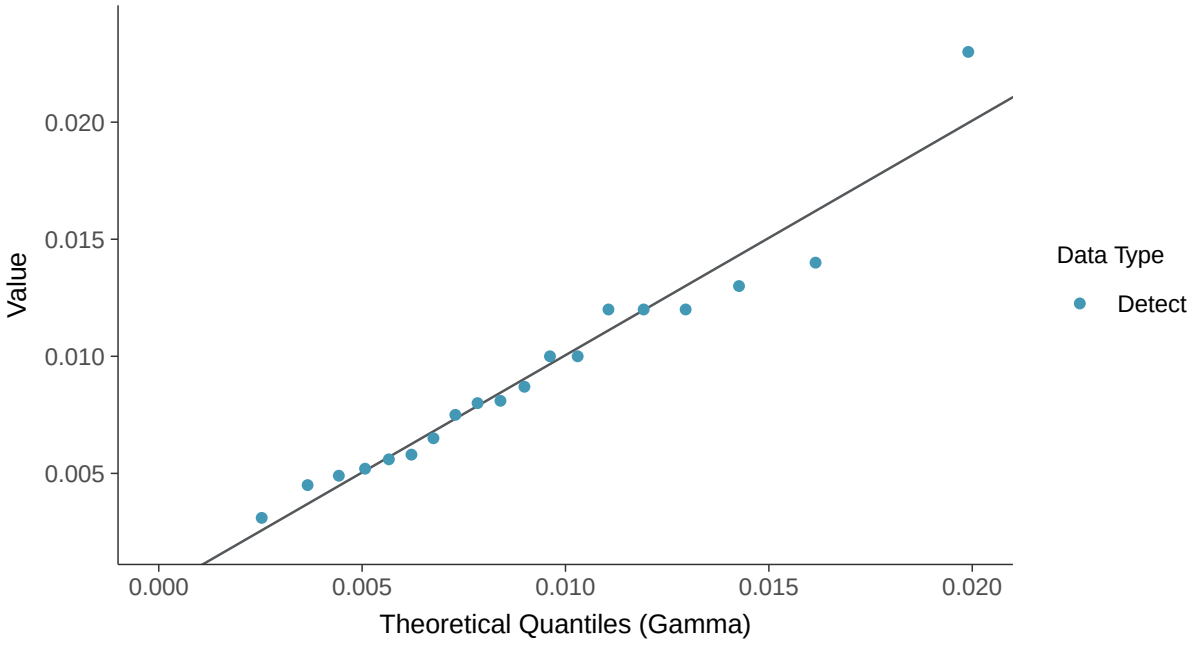
Lognormal Q-Q plot

Chromium, Total, MW-30 (mg/L)



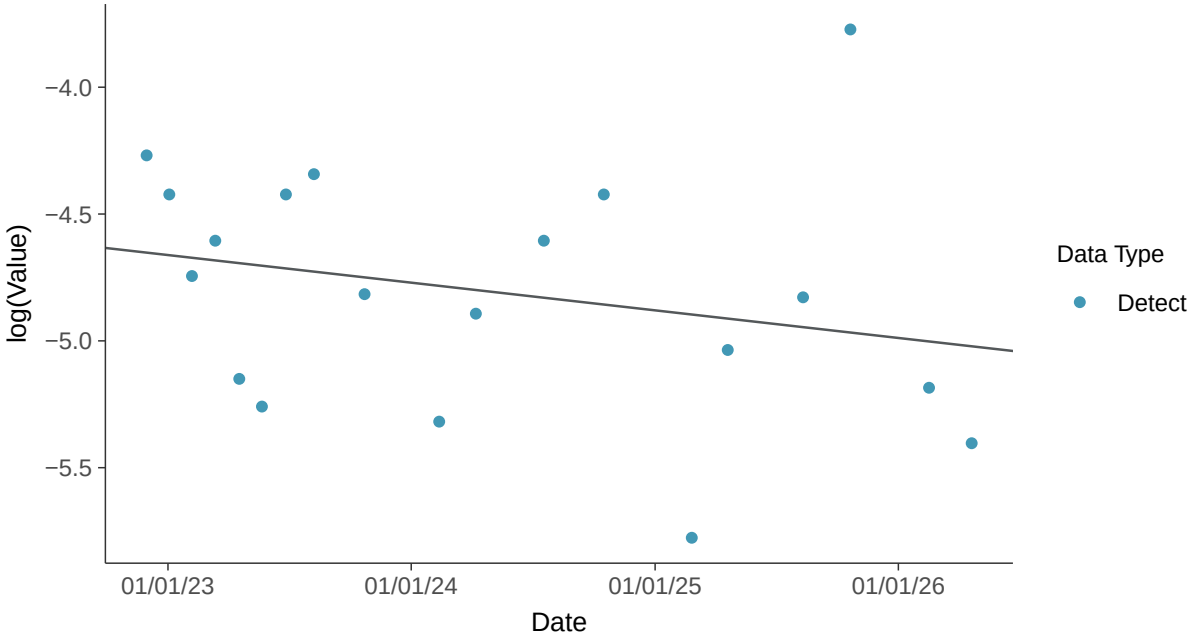
Gamma Q-Q plot

Chromium, Total, MW-30 (mg/L)



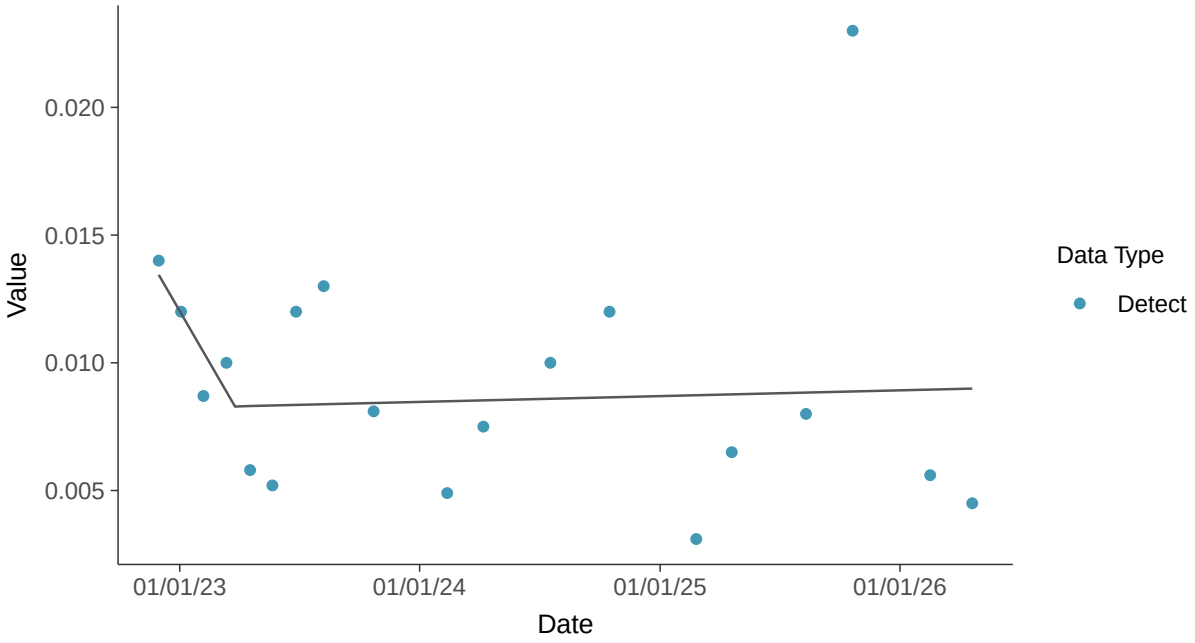
Trend Regression: Lognormal MLE

Chromium, Total, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-30 (mg/L)

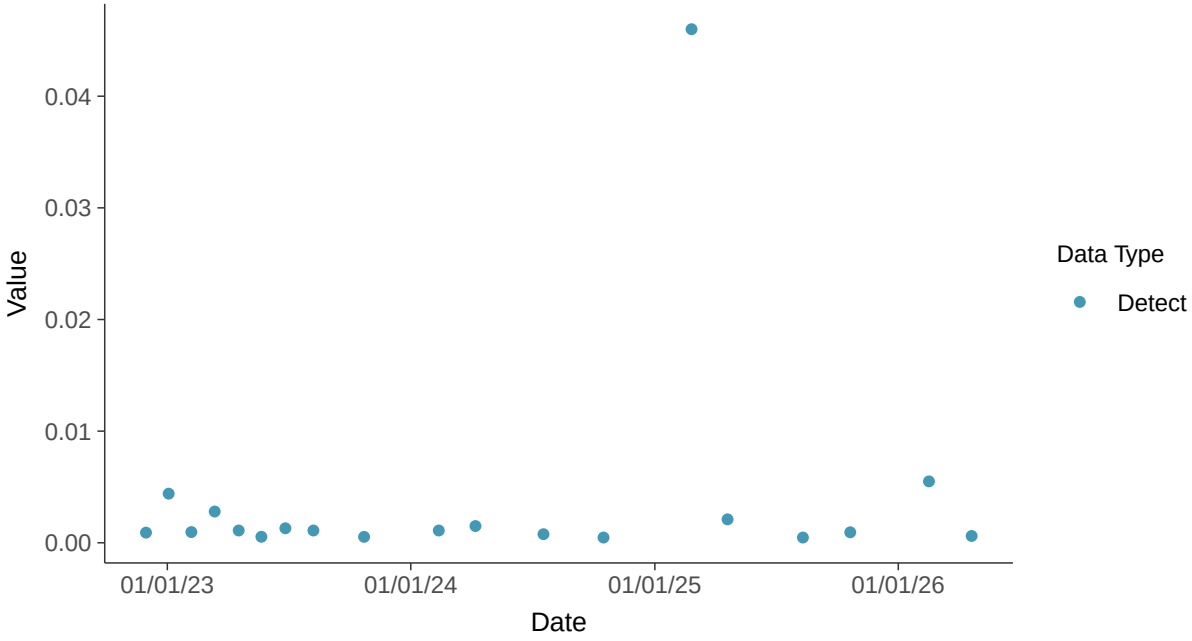


Appendix IV: Cobalt, MW-30

ID: 40_1_4_110

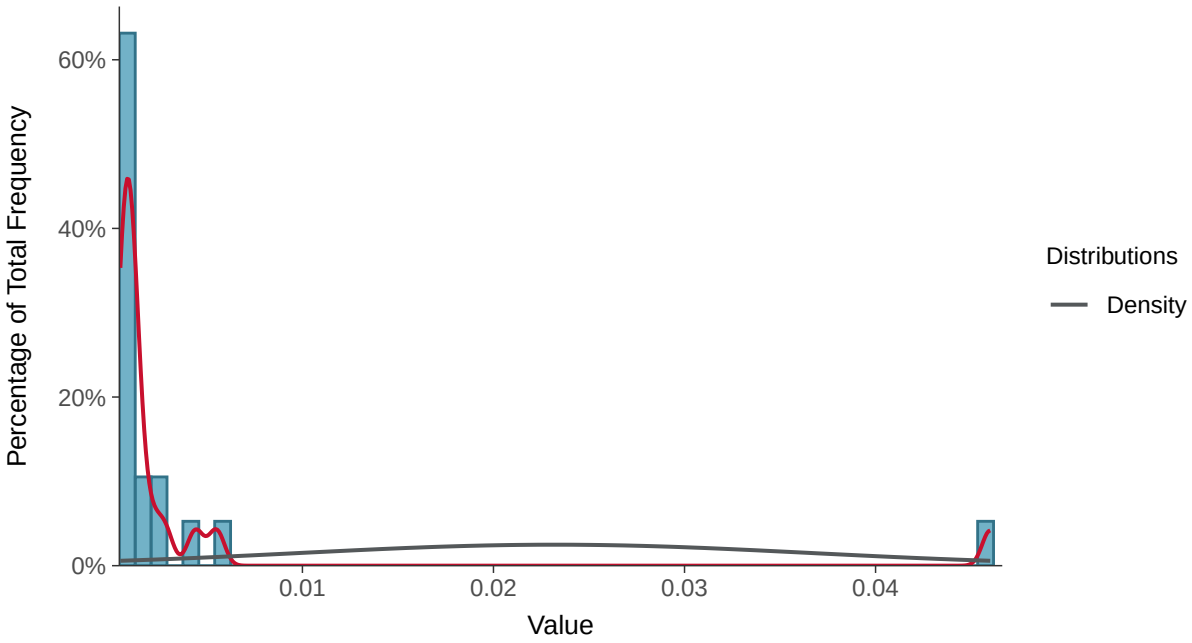
Scatter Plot

Cobalt, MW-30 (mg/L)



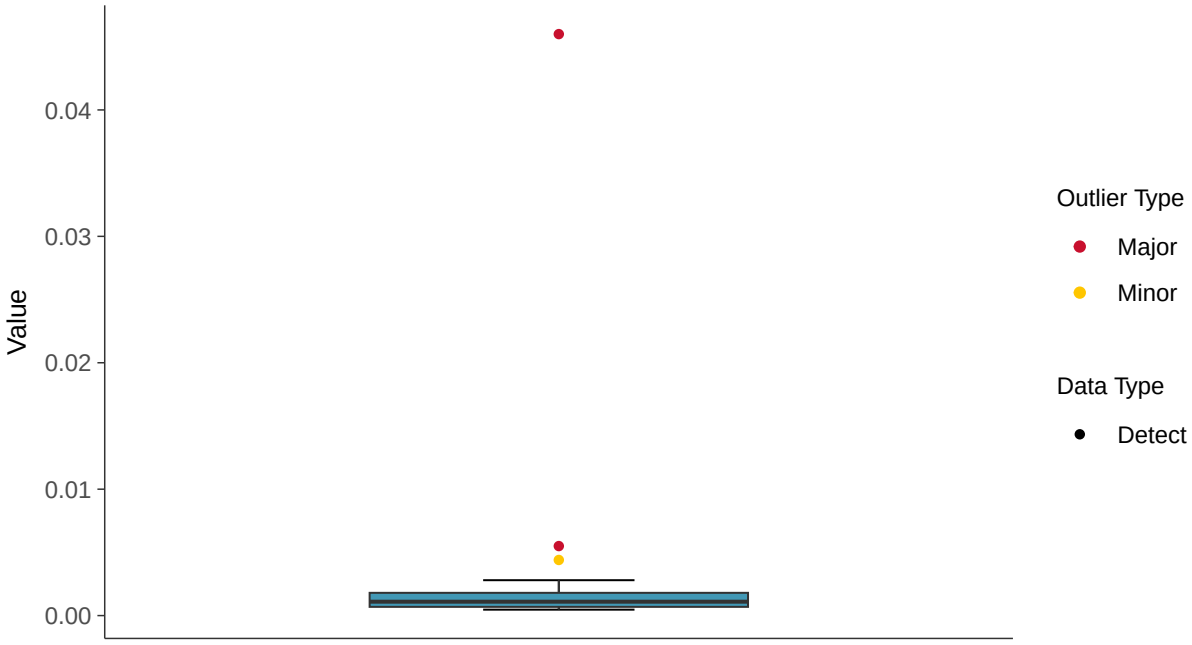
Histogram

Cobalt, MW-30 (mg/L)



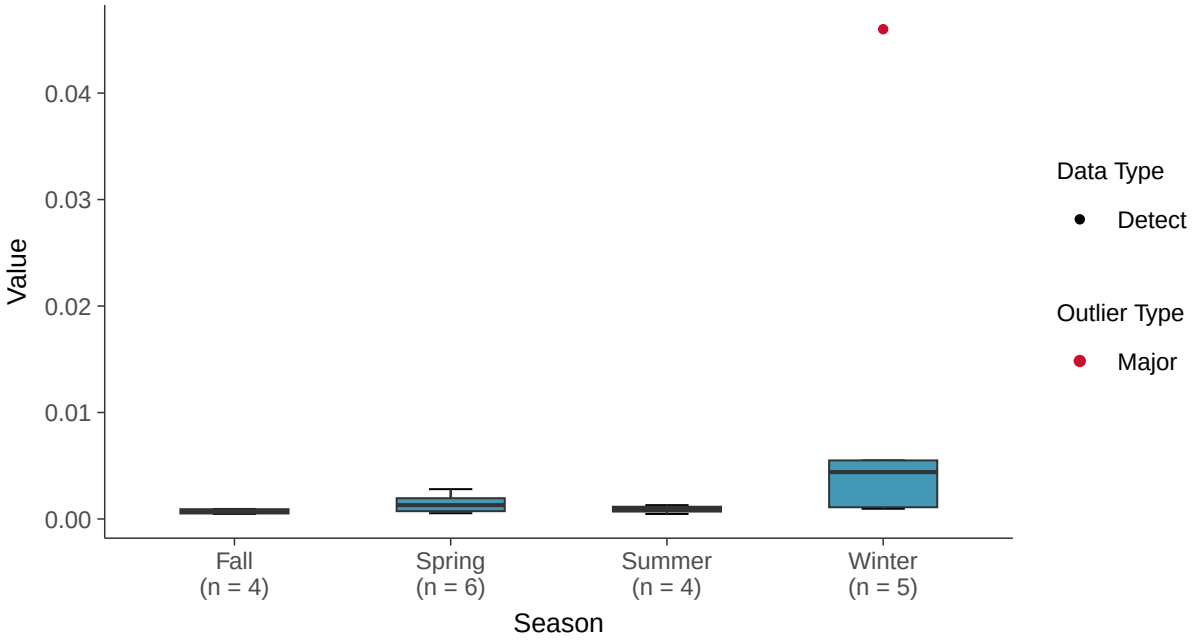
Boxplot

Cobalt, MW-30 (mg/L)



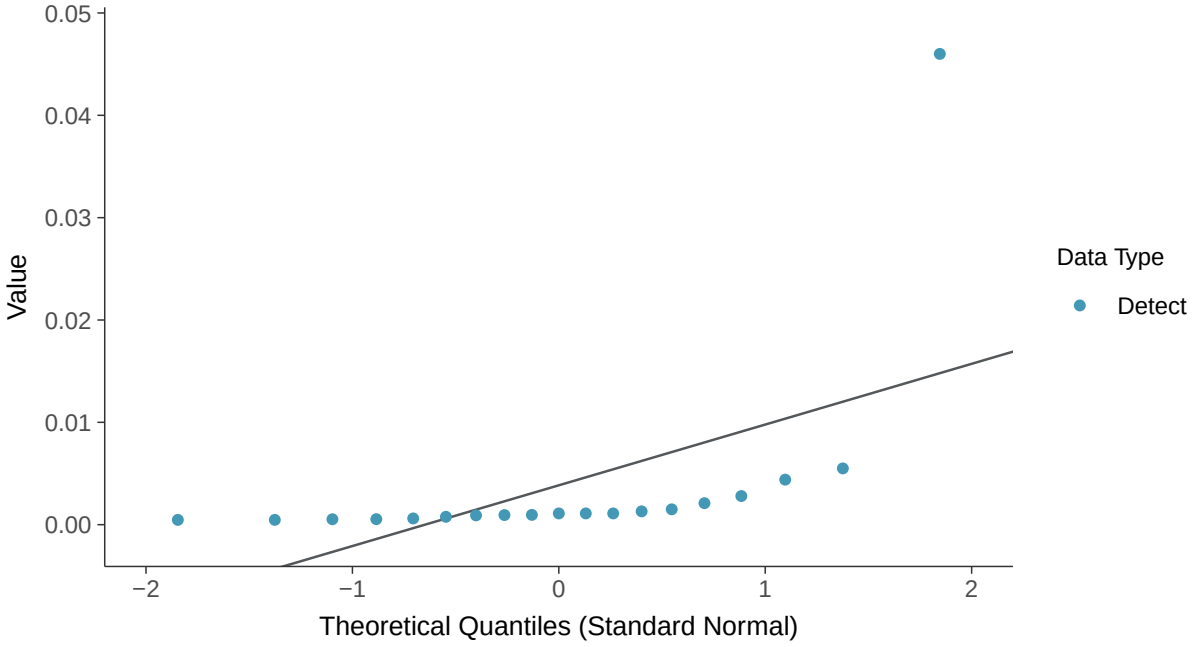
Boxplot by Season

Cobalt, MW-30 (mg/L)



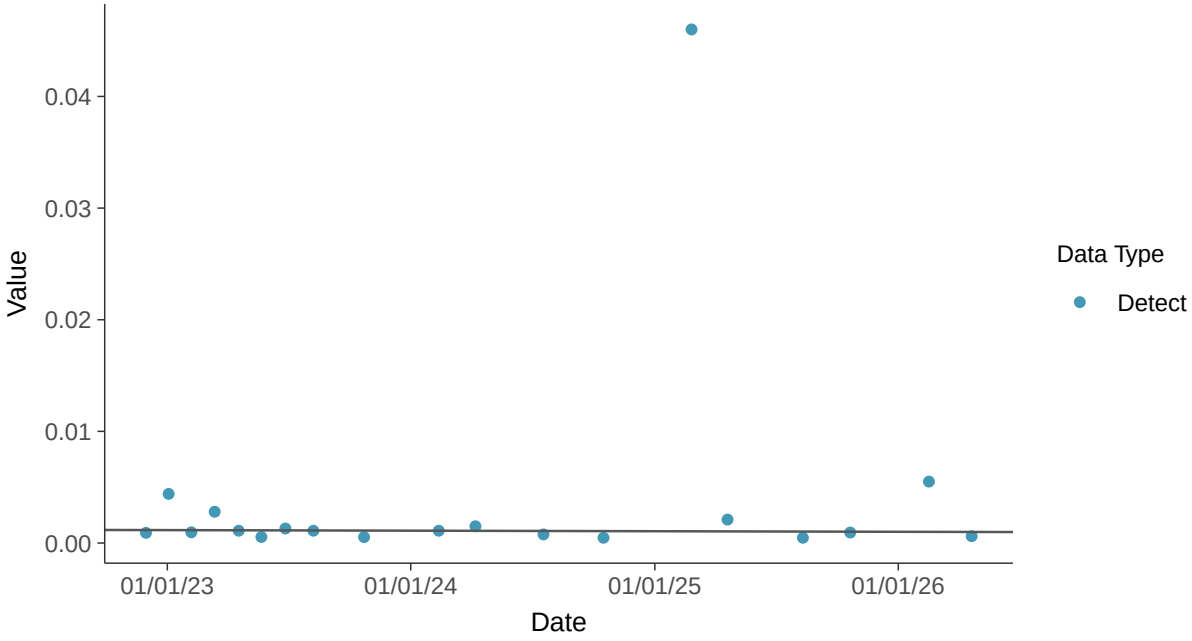
Normal Q-Q plot

Cobalt, MW-30 (mg/L)



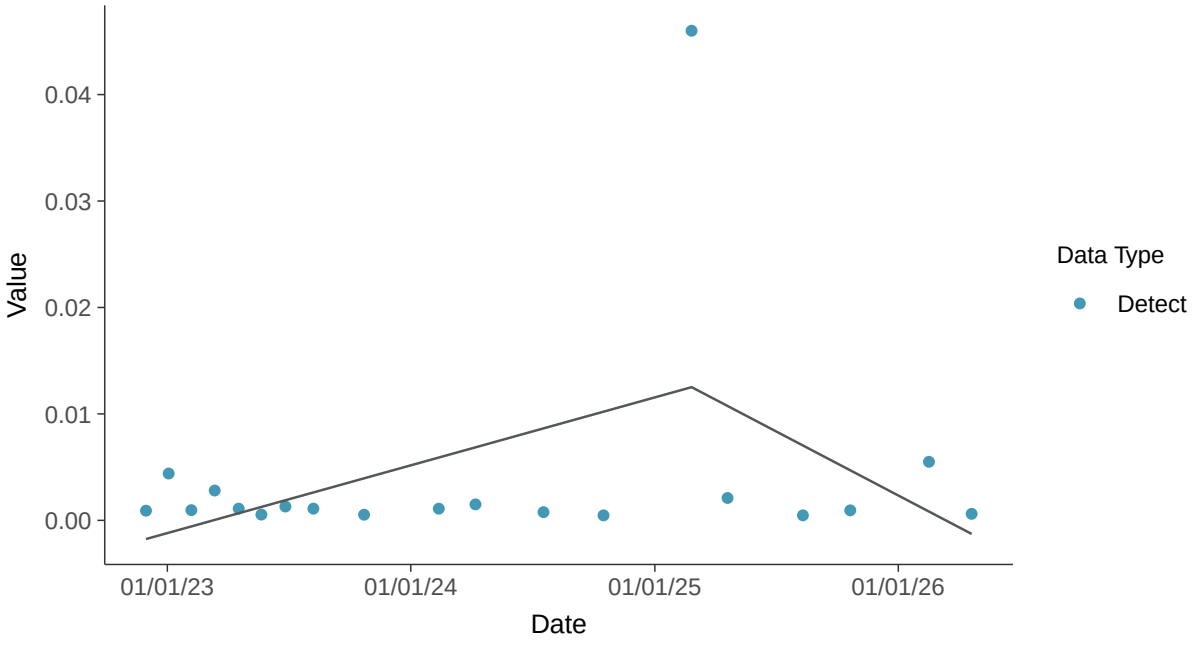
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-30 (mg/L)



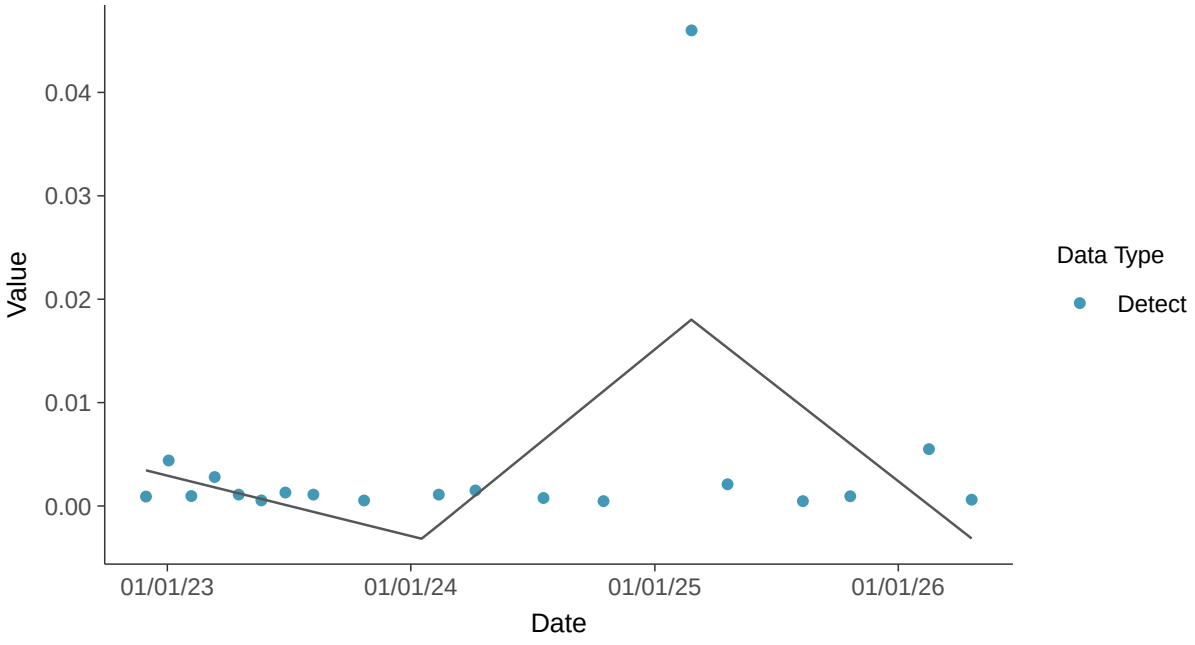
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-30 (mg/L)

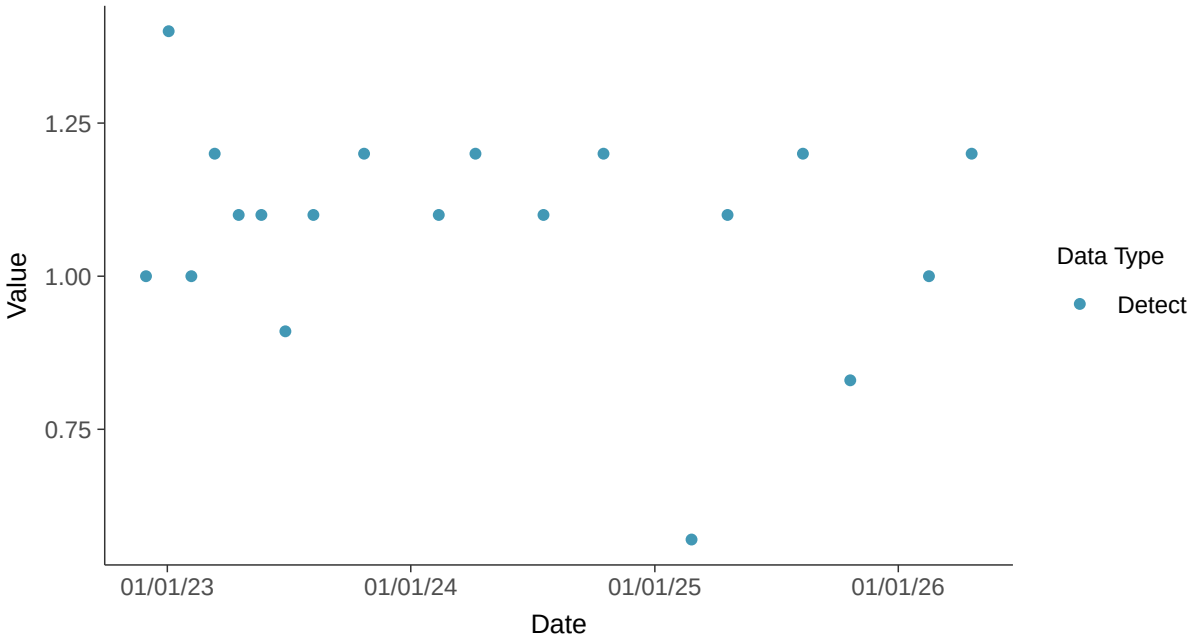


Appendix IV: Fluoride (App IV), MW-30

ID: 40_1_4_113

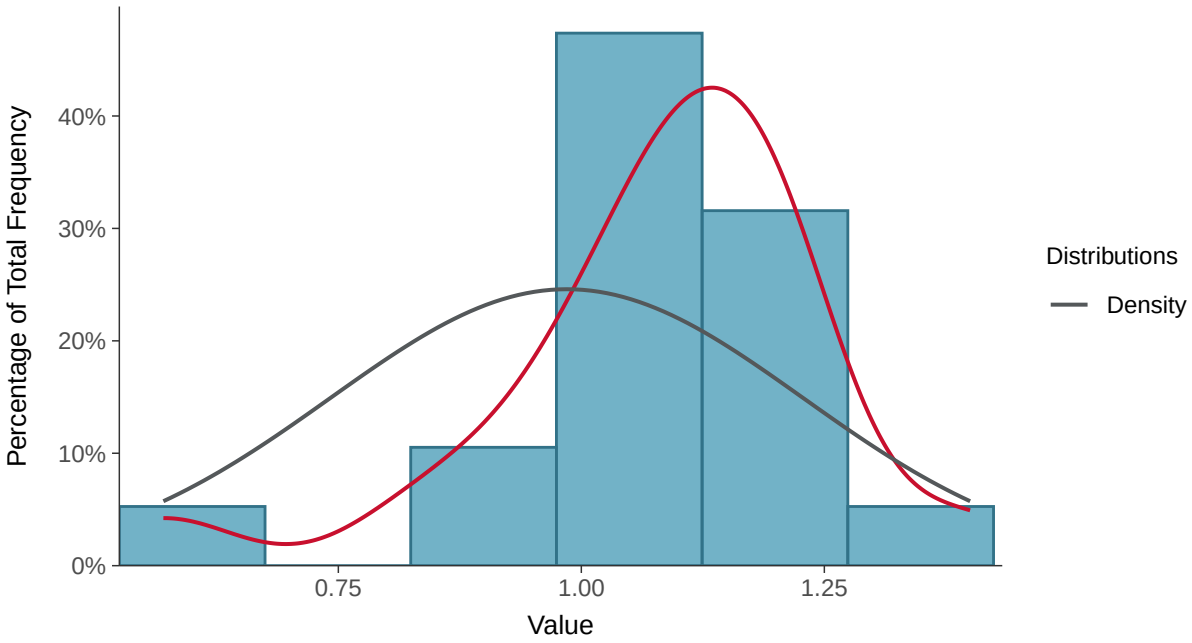
Scatter Plot

Fluoride (App IV), MW-30 (mg/L)



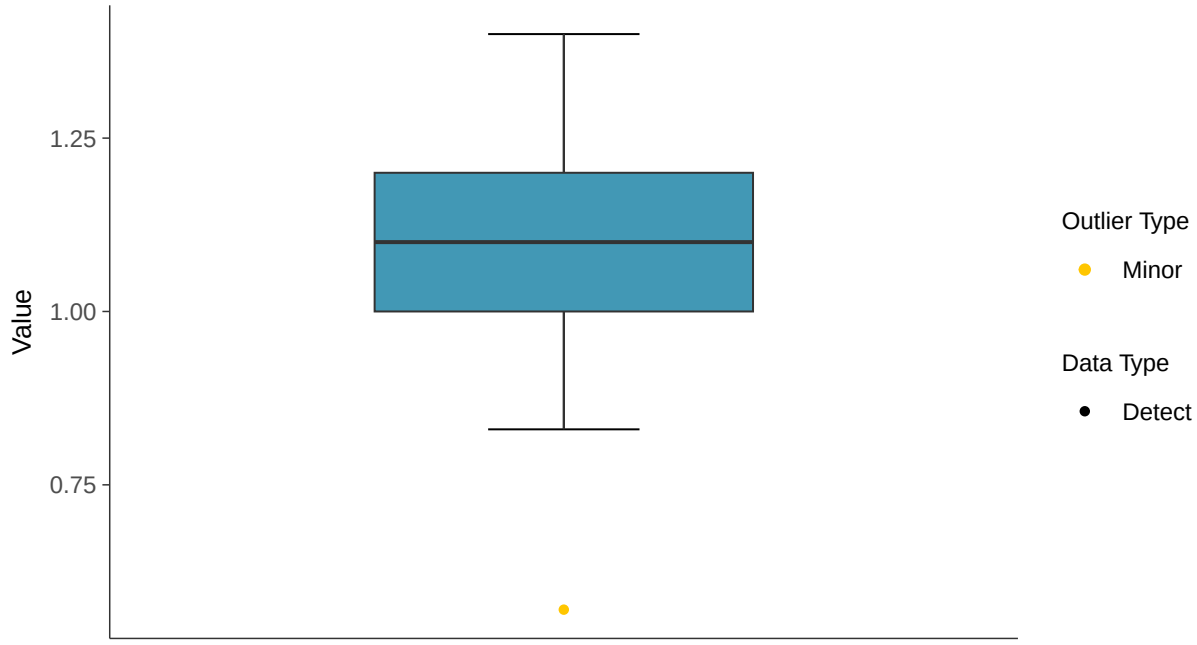
Histogram

Fluoride (App IV), MW-30 (mg/L)



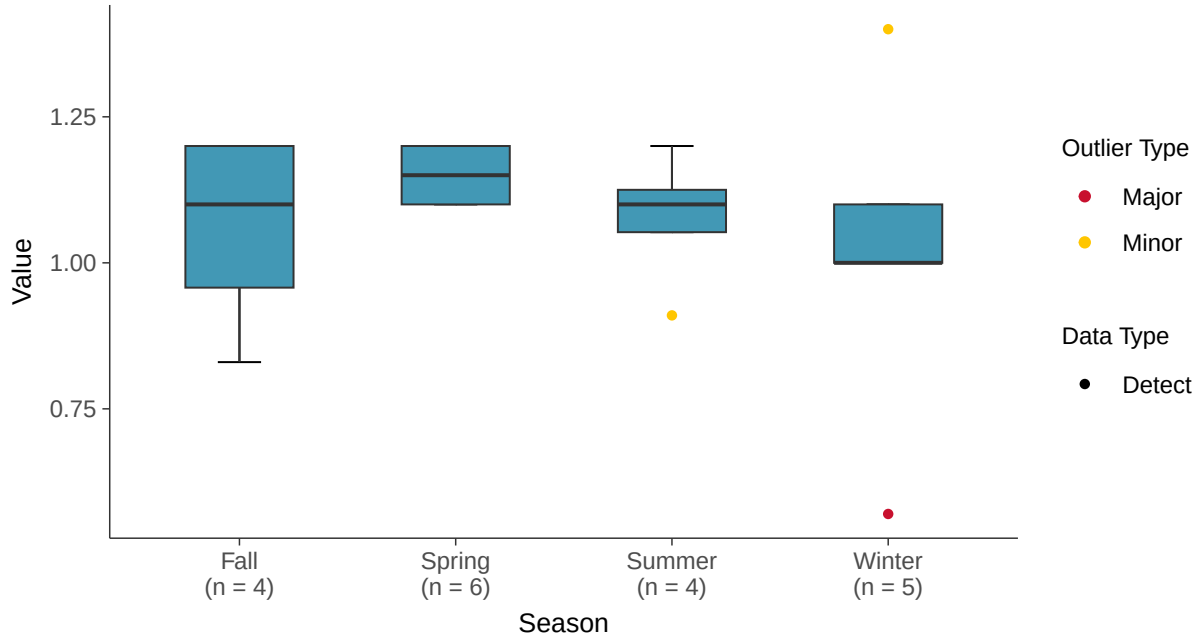
Boxplot

Fluoride (App IV), MW-30 (mg/L)



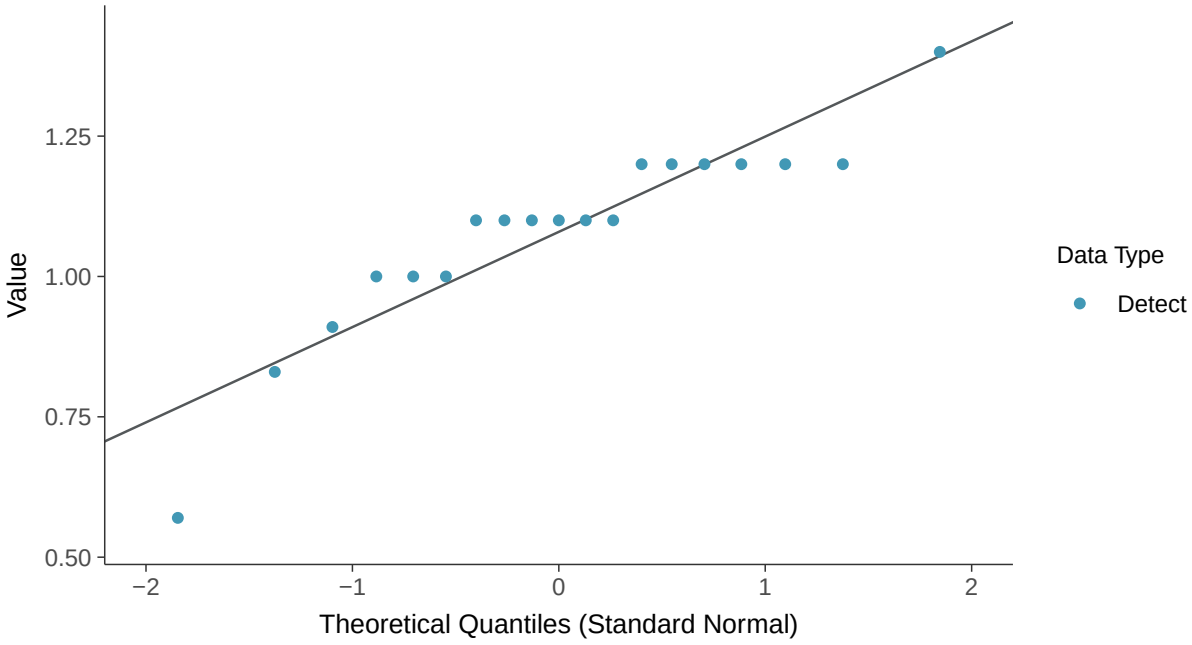
Boxplot by Season

Fluoride (App IV), MW-30 (mg/L)



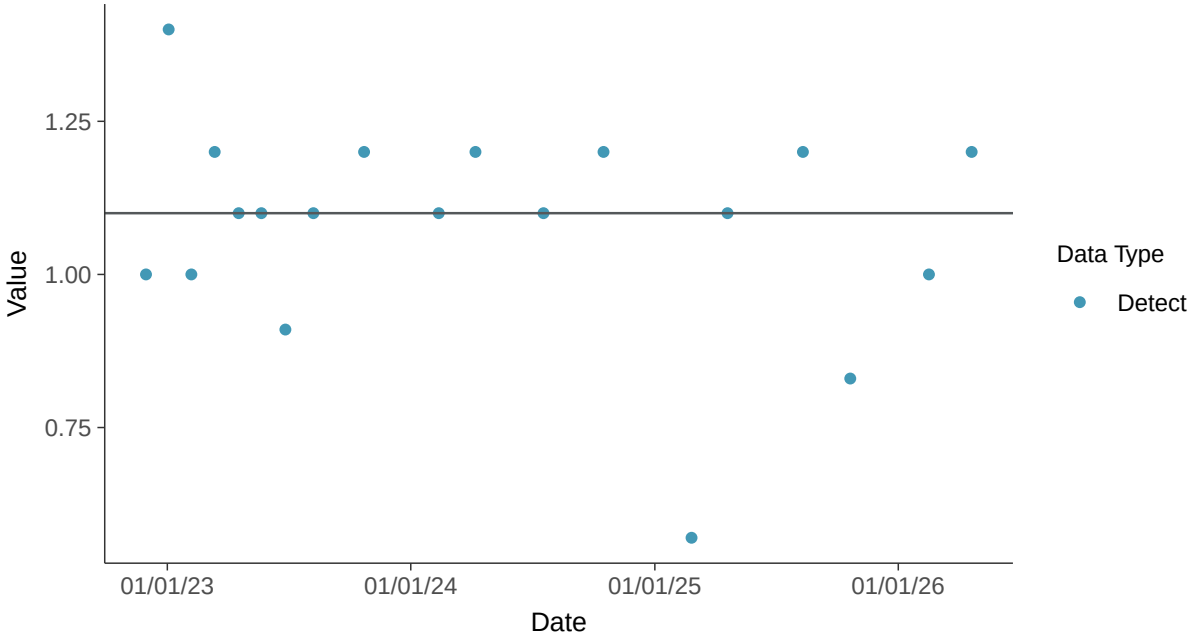
Normal Q-Q plot

Fluoride (App IV), MW-30 (mg/L)



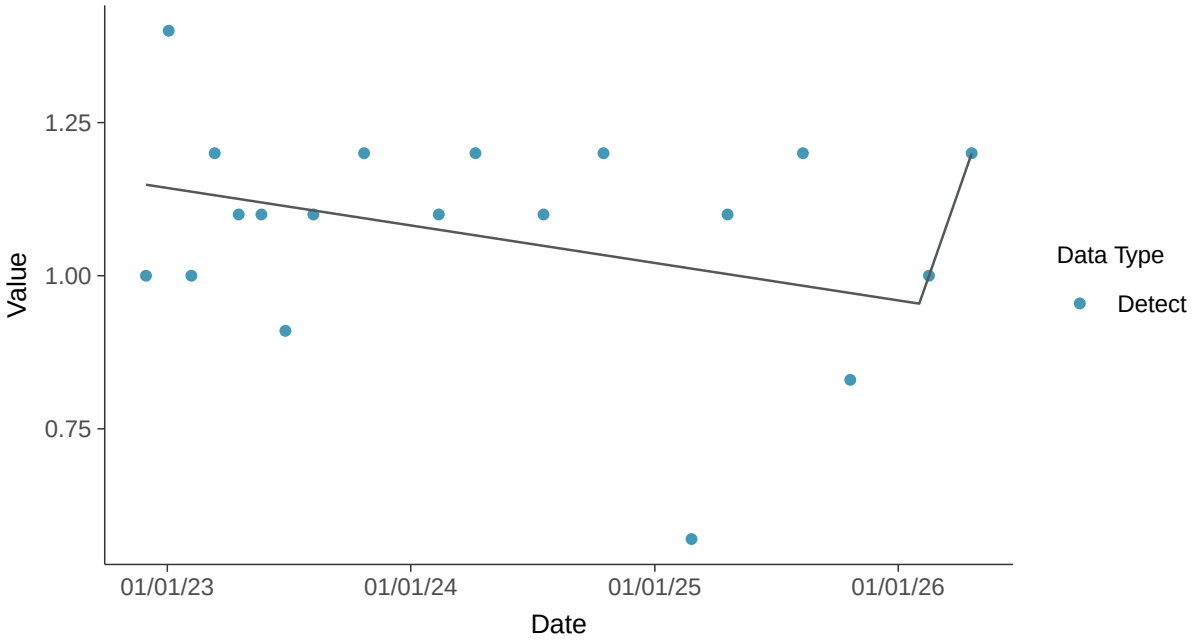
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-30 (mg/L)



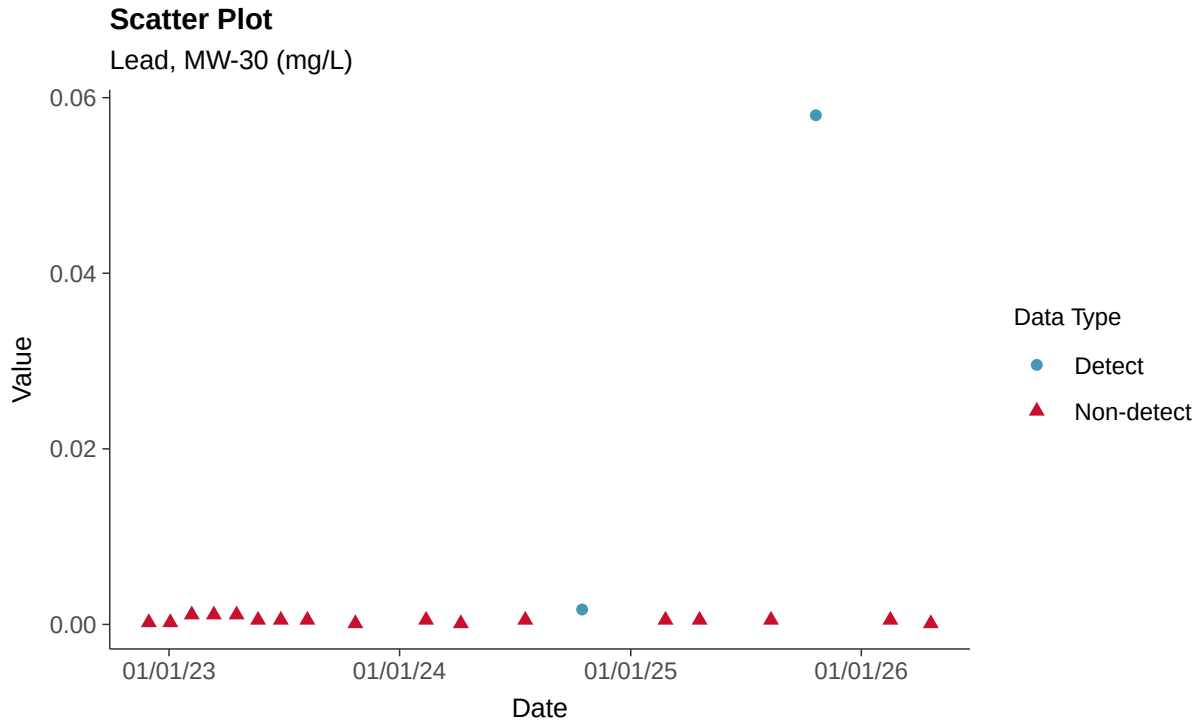
Trend Regression: Piecewise Linear-Linear

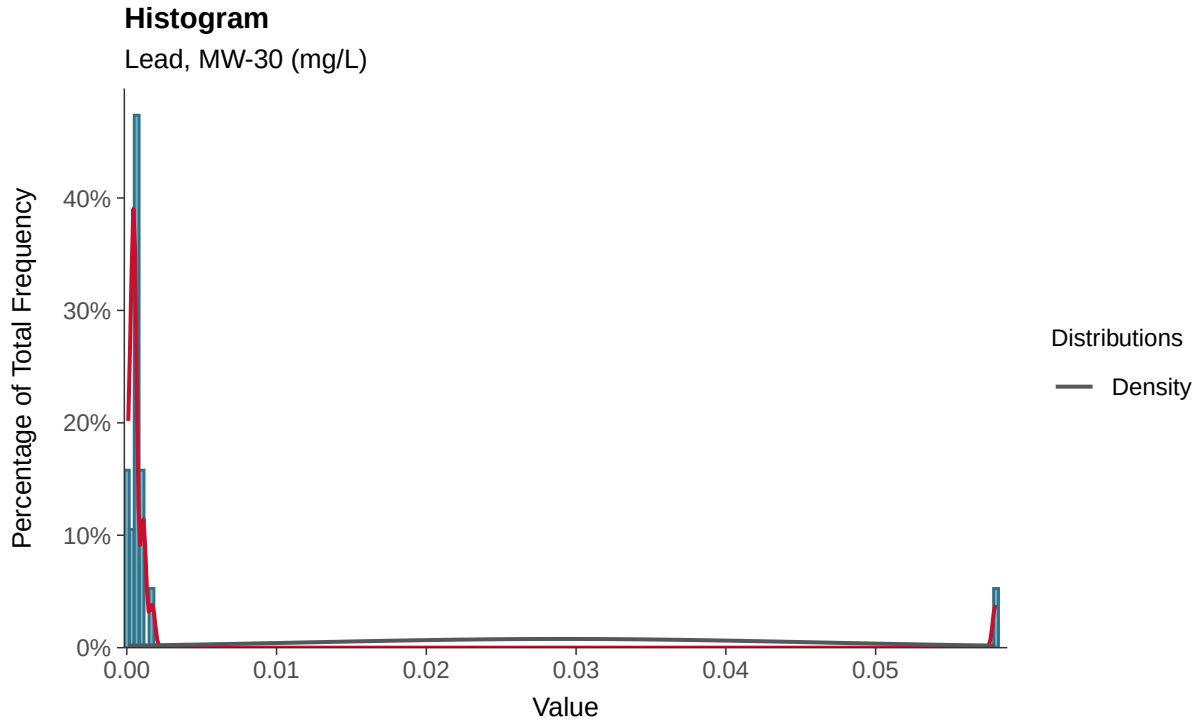
Fluoride (App IV), MW-30 (mg/L)



Appendix IV: Lead, MW-30

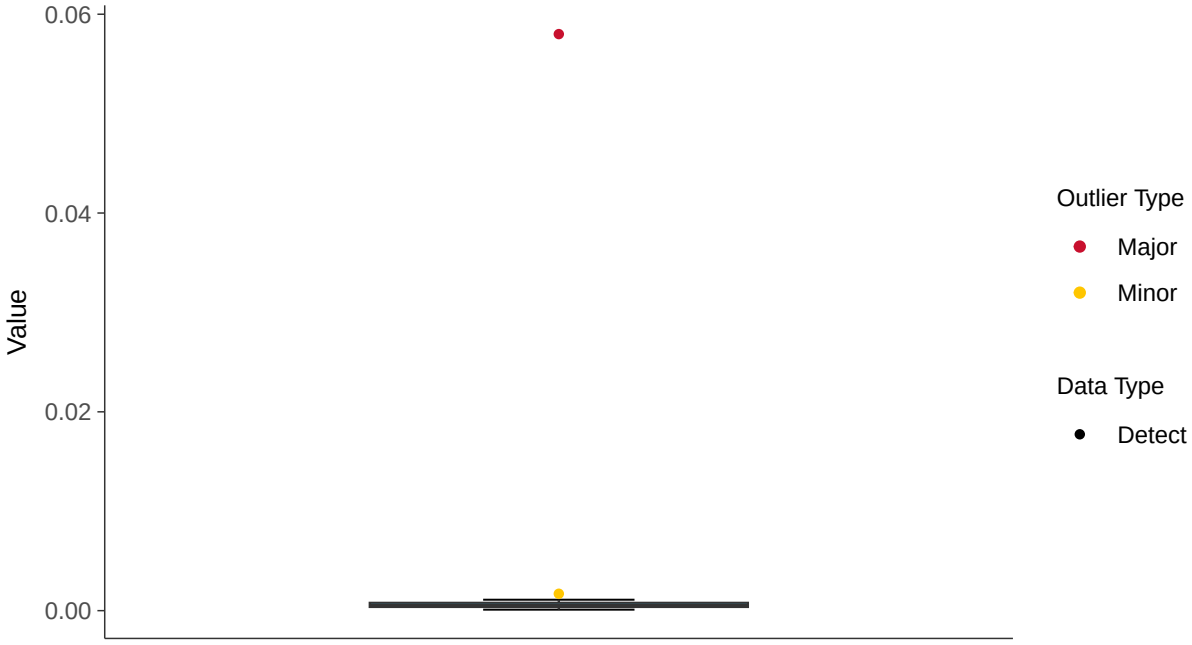
ID: 40_1_4_115





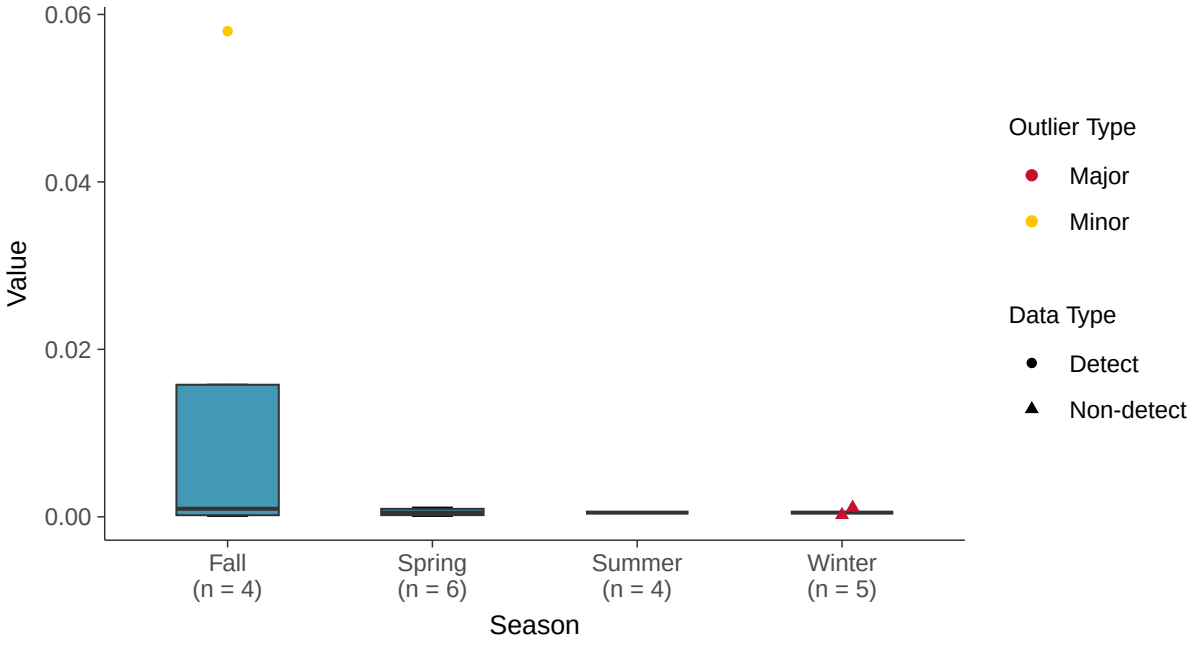
Boxplot

Lead, MW-30 (mg/L)



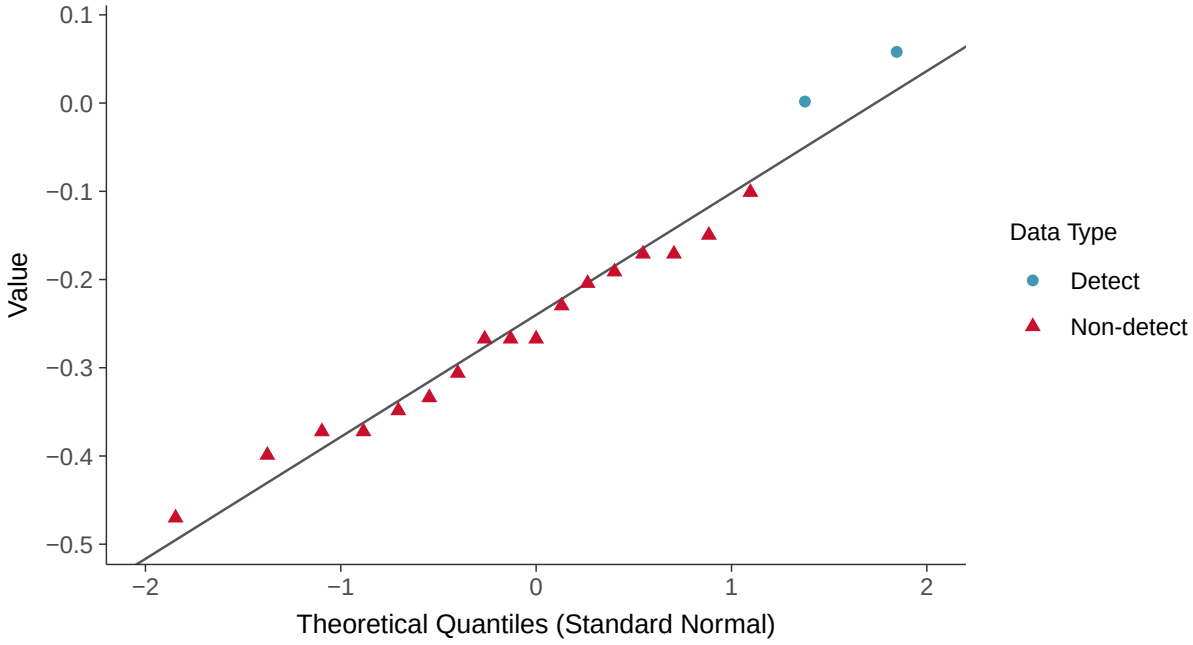
Boxplot by Season

Lead, MW-30 (mg/L)



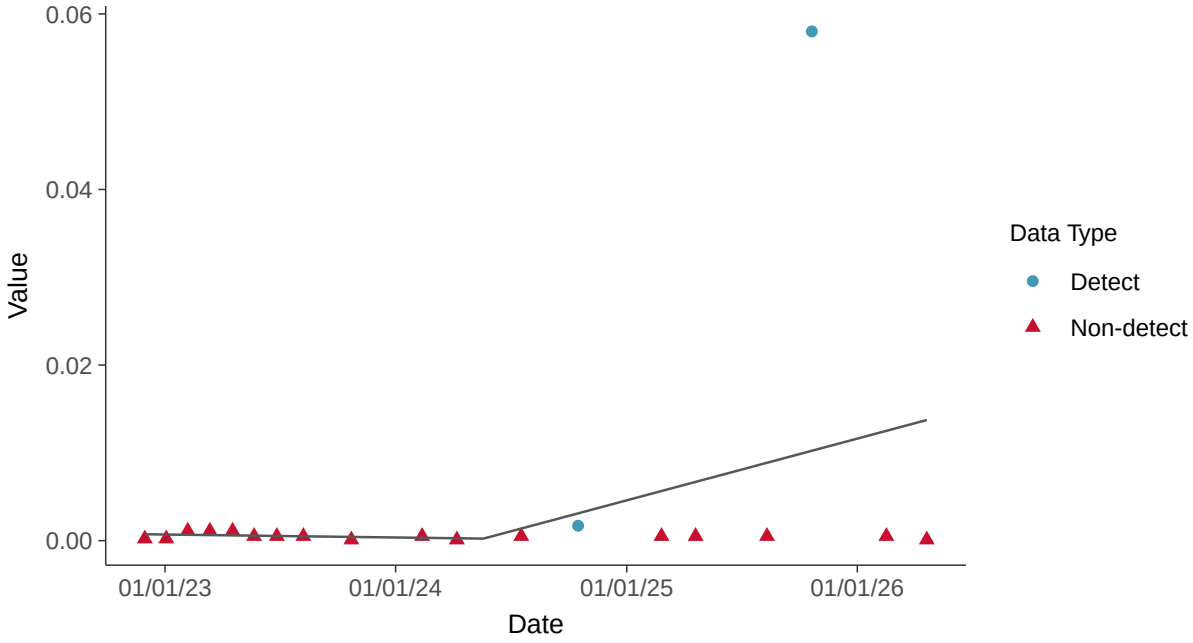
Normal Q-Q plot using ROS Imputed Estimates

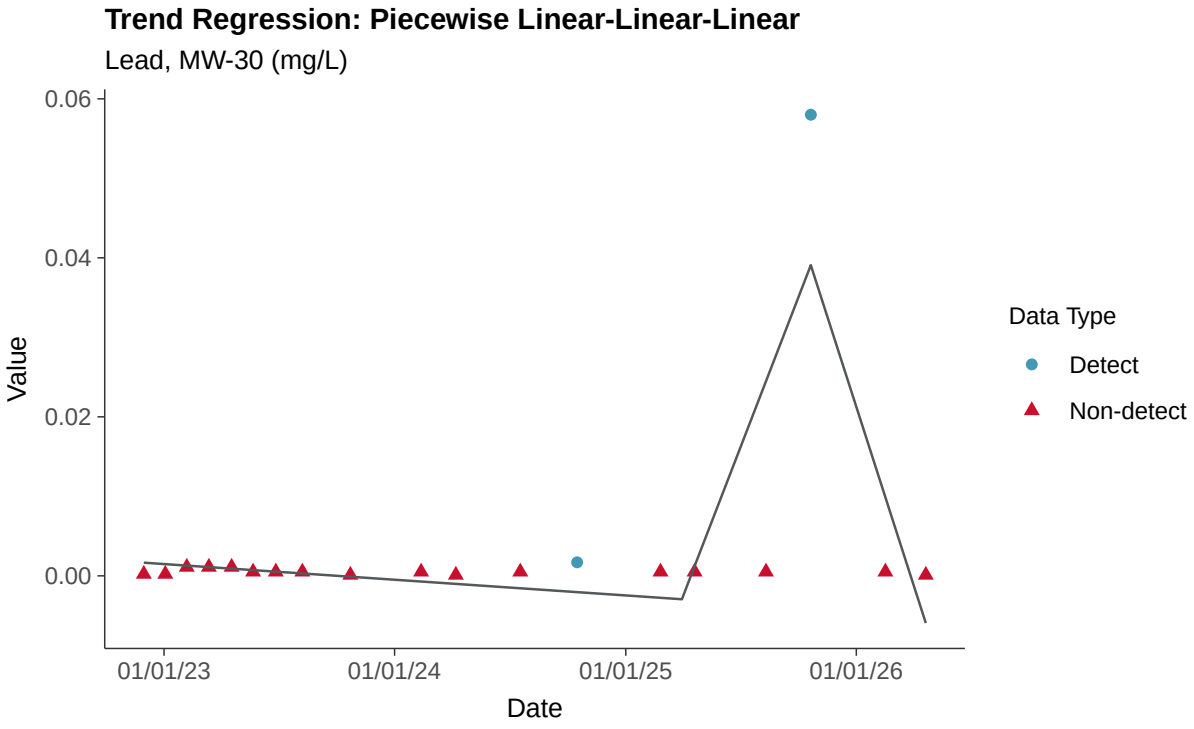
Lead, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Lead, MW-30 (mg/L)



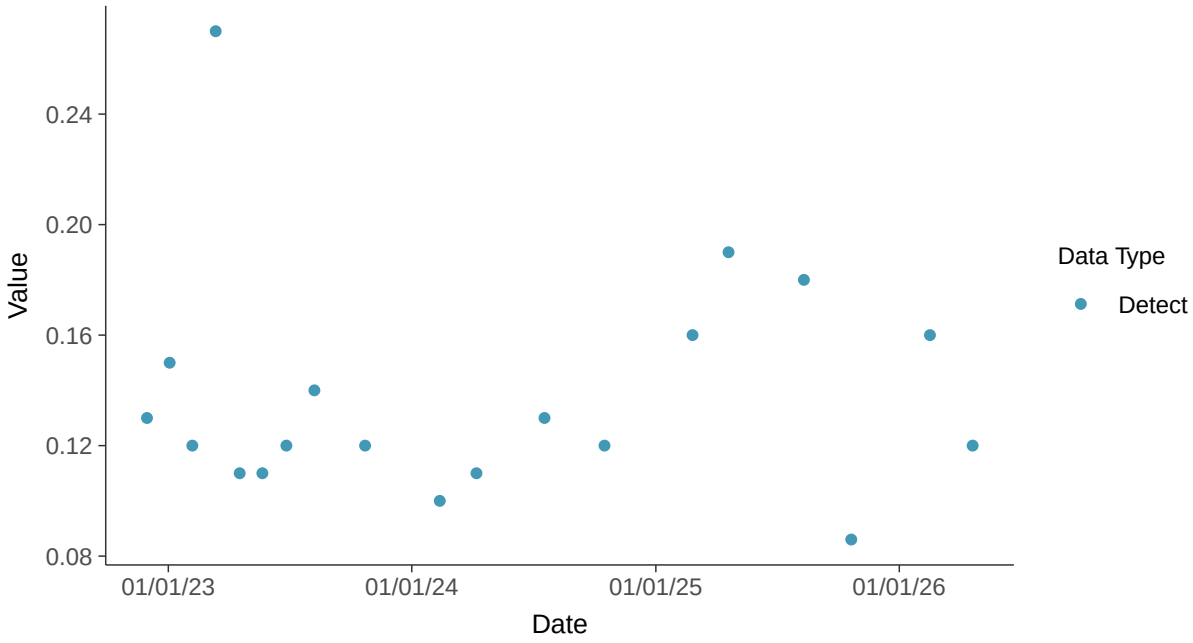

Trend Regression: Piecewise Linear-Linear-Linear
Lead, MW-30 (mg/L)
0.06
0.04
0.02
0.00
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Lithium, MW-30

ID: 40_1_4_116

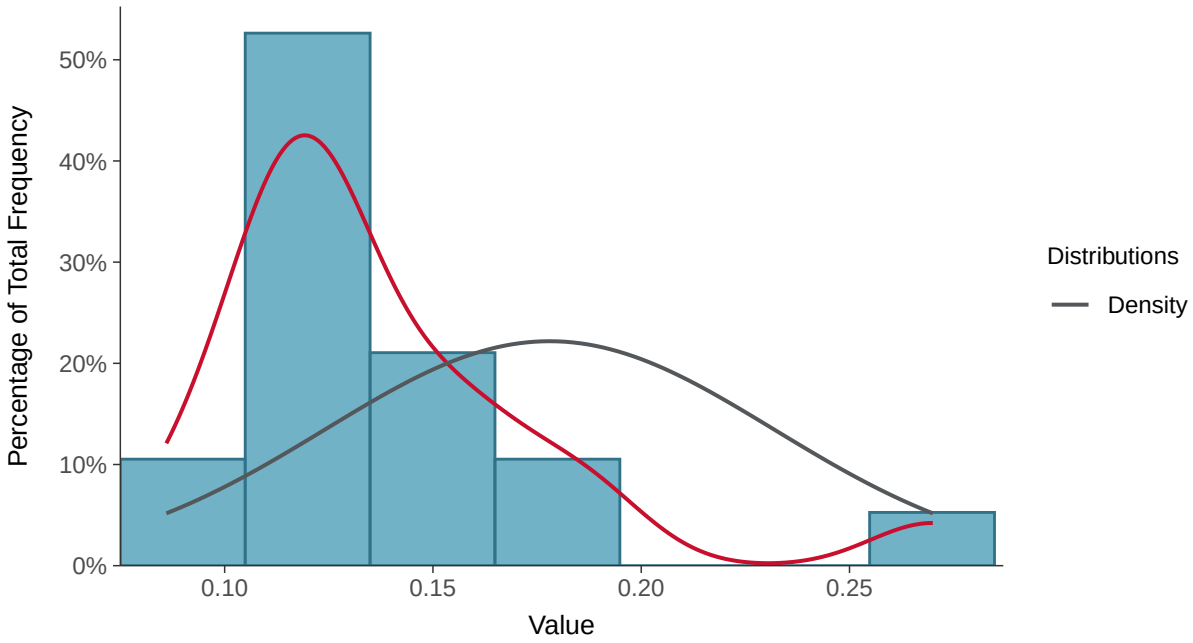
Scatter Plot

Lithium, MW-30 (mg/L)



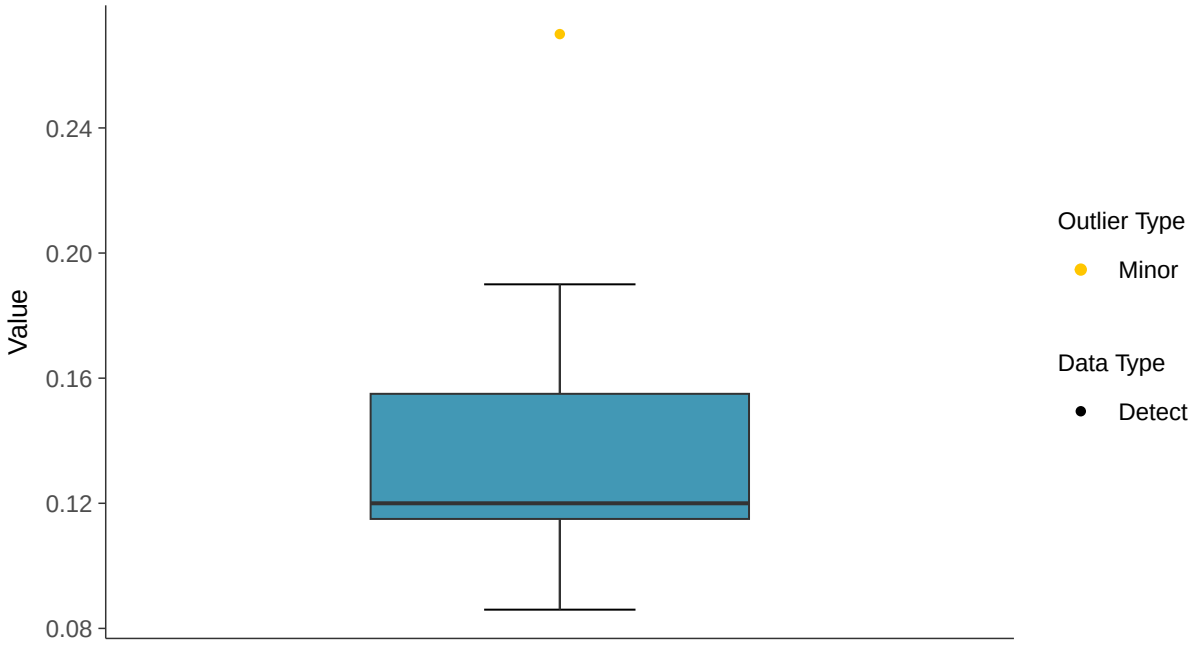
Histogram

Lithium, MW-30 (mg/L)



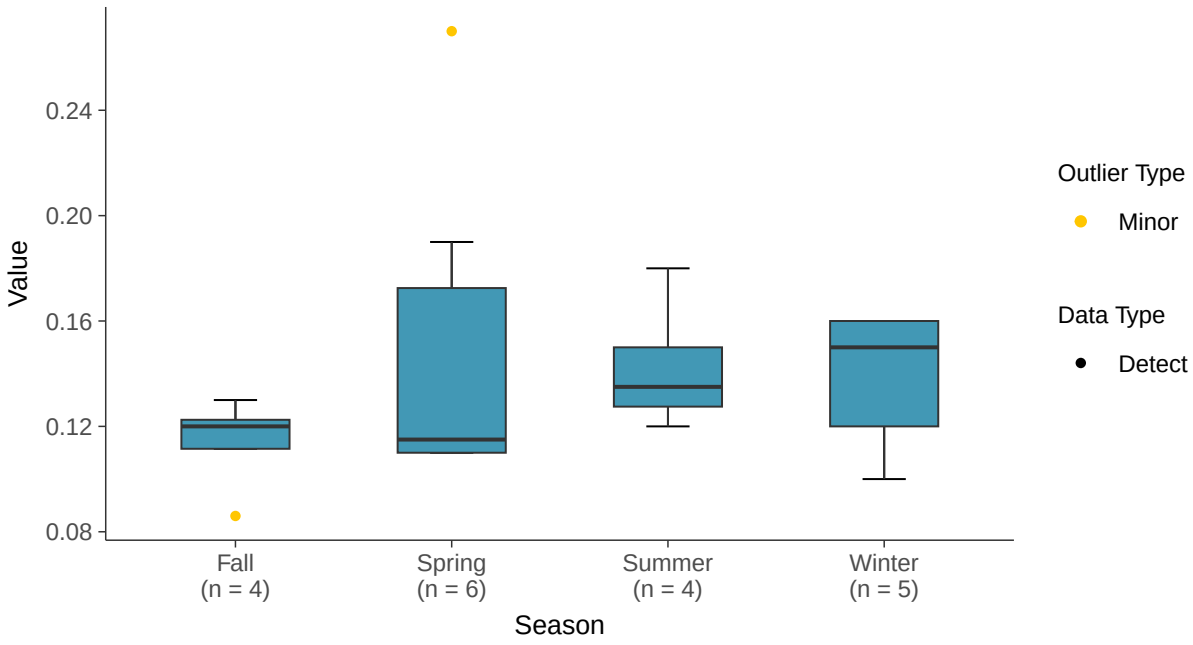
Boxplot

Lithium, MW-30 (mg/L)



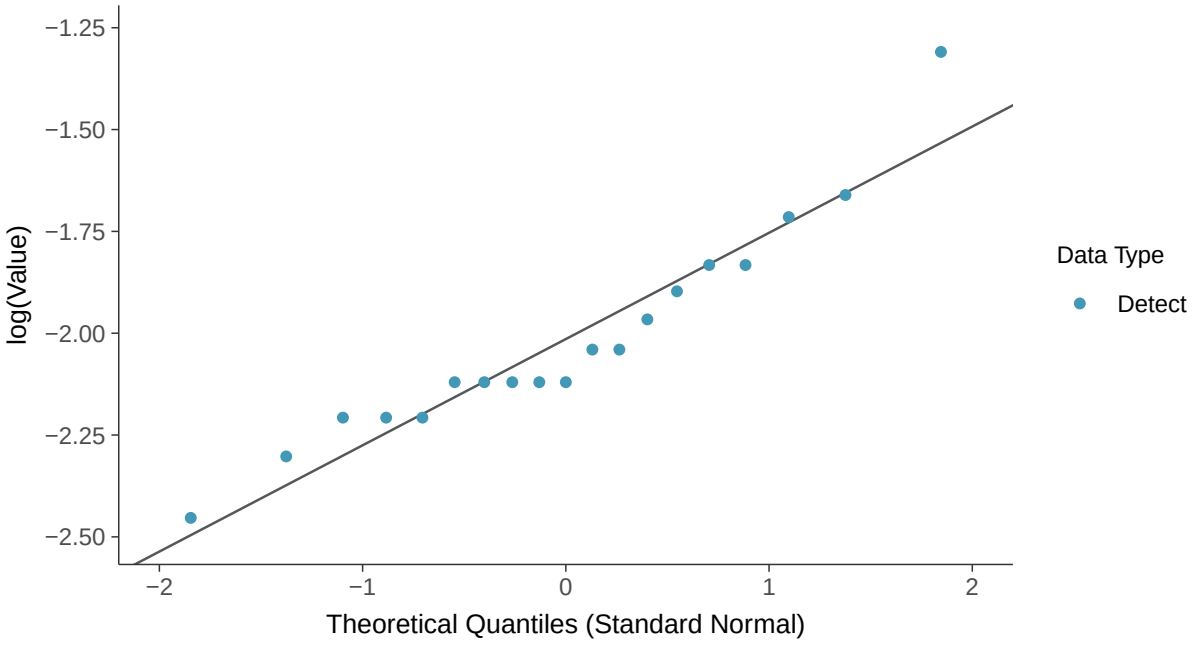
Boxplot by Season

Lithium, MW-30 (mg/L)



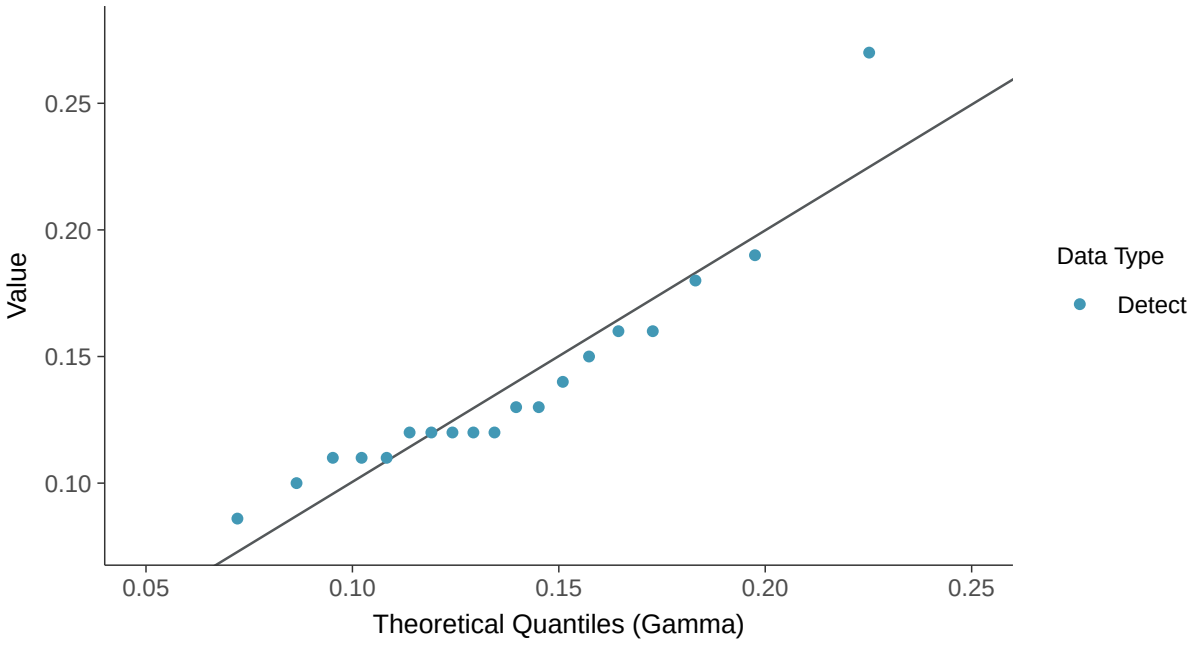
Lognormal Q-Q plot

Lithium, MW-30 (mg/L)



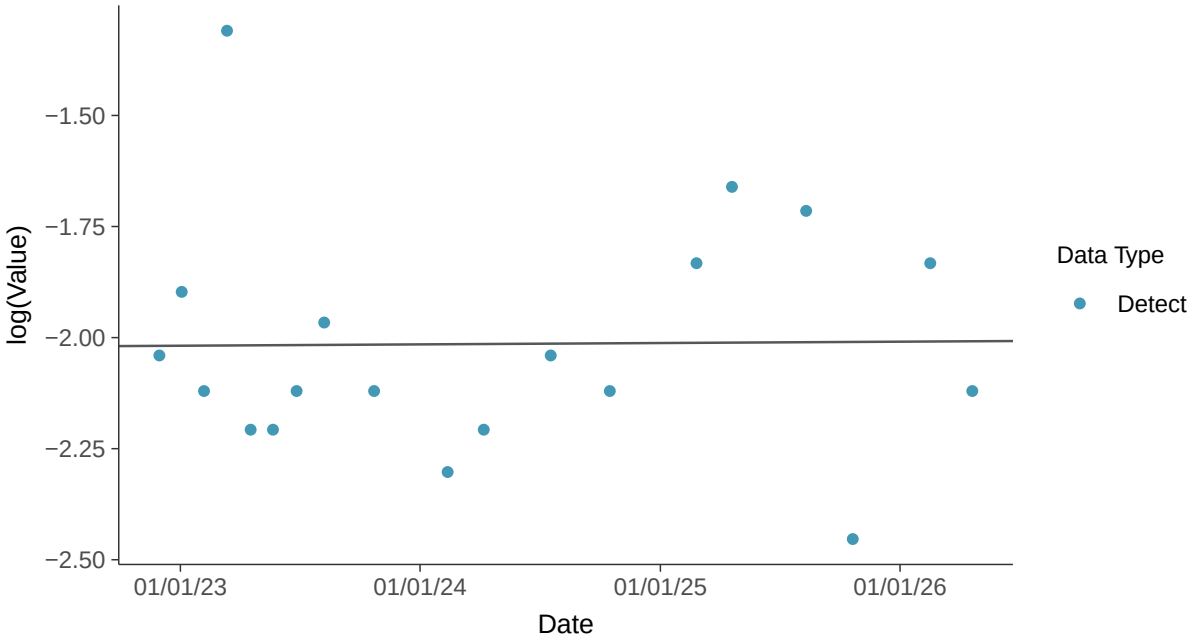
Gamma Q-Q plot

Lithium, MW-30 (mg/L)



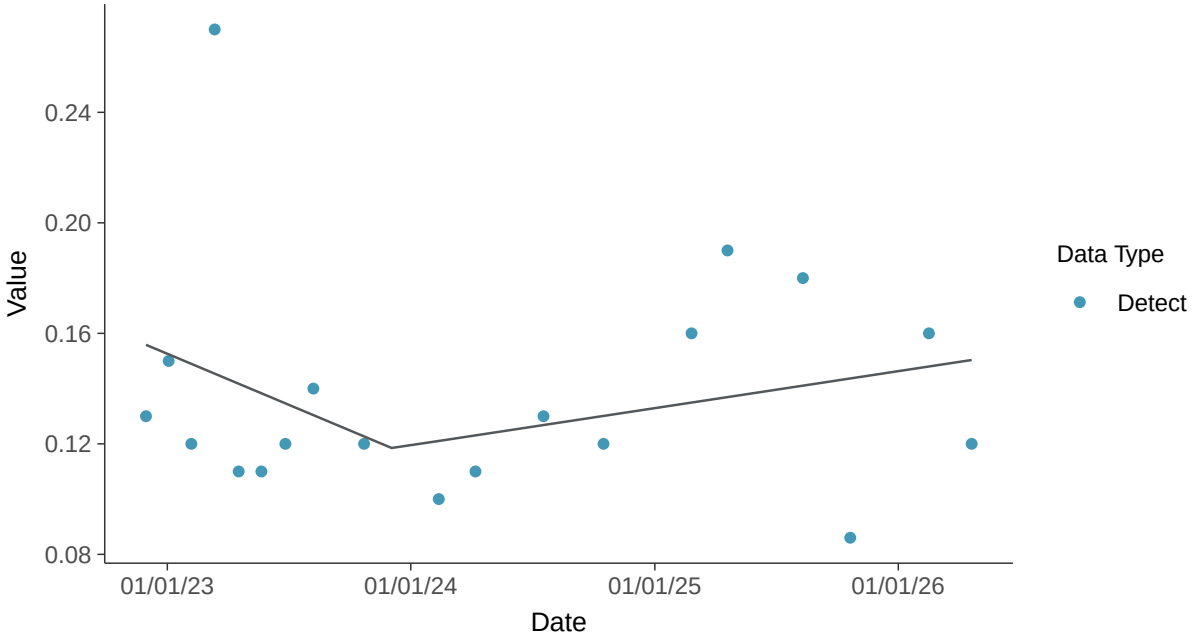
Trend Regression: Lognormal MLE

Lithium, MW-30 (mg/L)



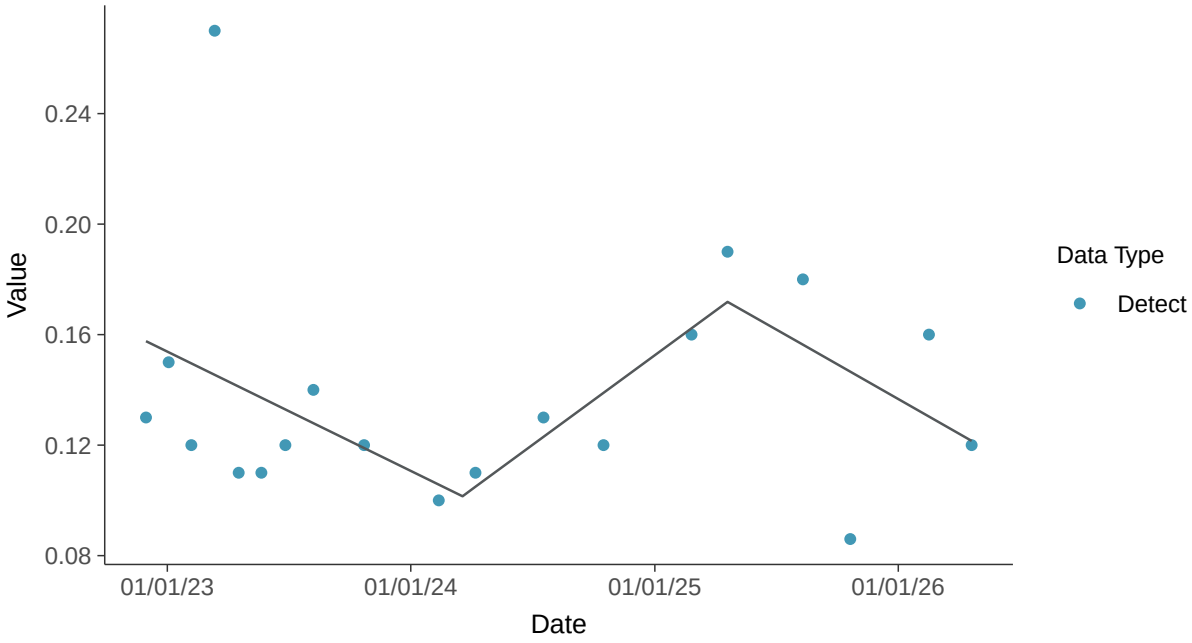
Trend Regression: Piecewise Linear-Linear

Lithium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lithium, MW-30 (mg/L)

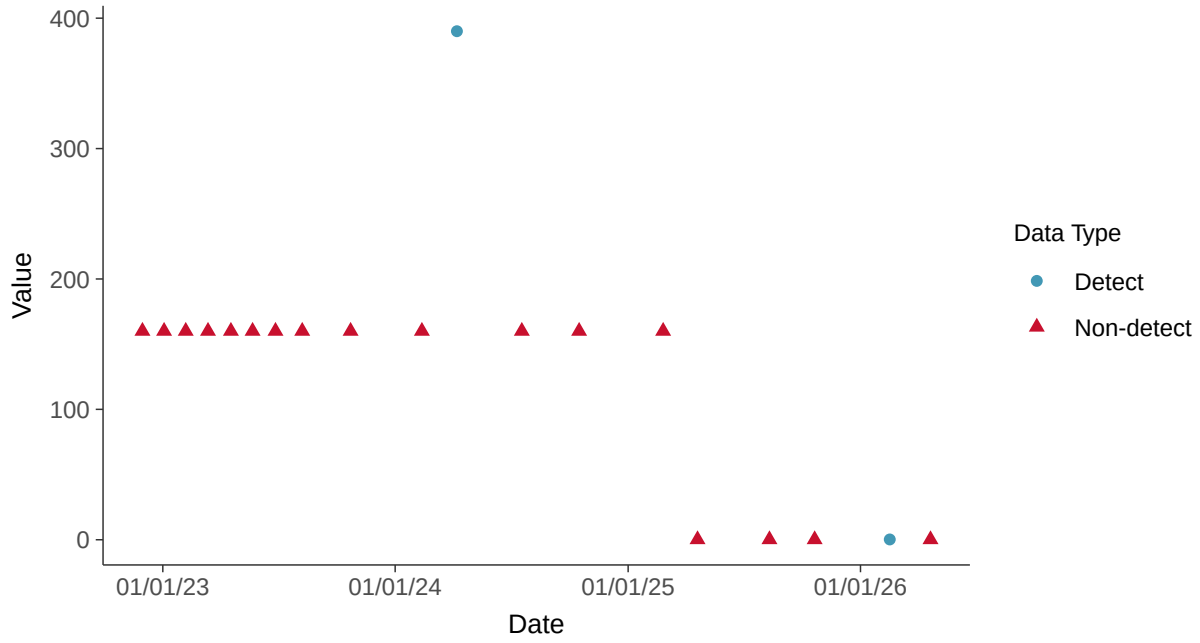


Appendix IV: Mercury, MW-30

ID: 40_1_4_117

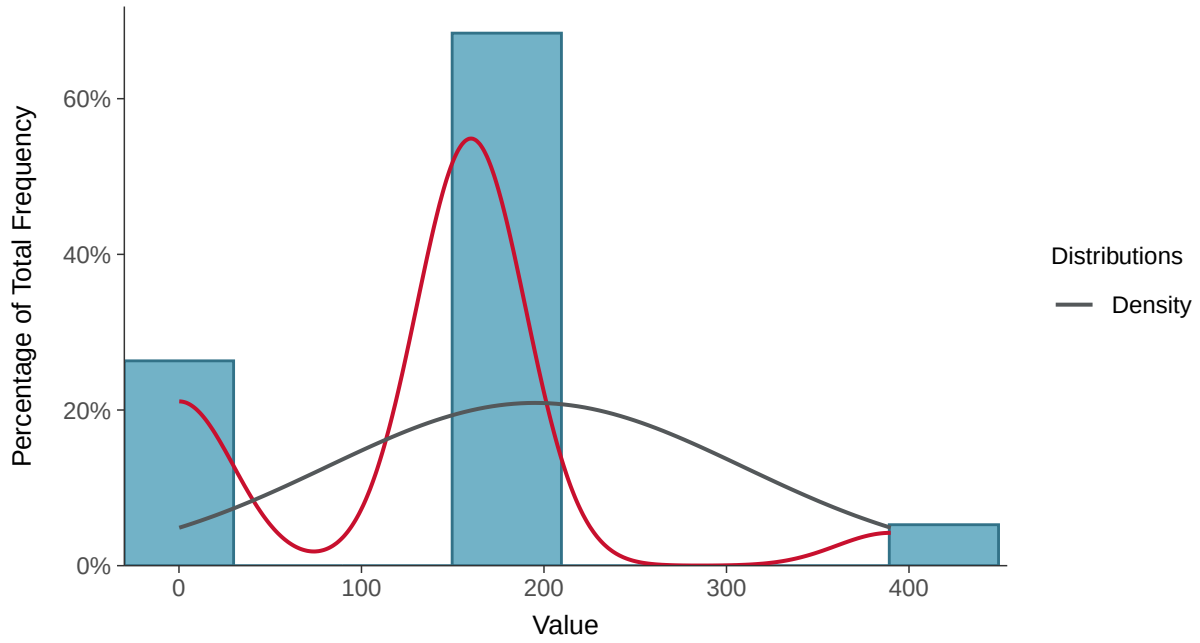
Scatter Plot

Mercury, MW-30 (ng/L)



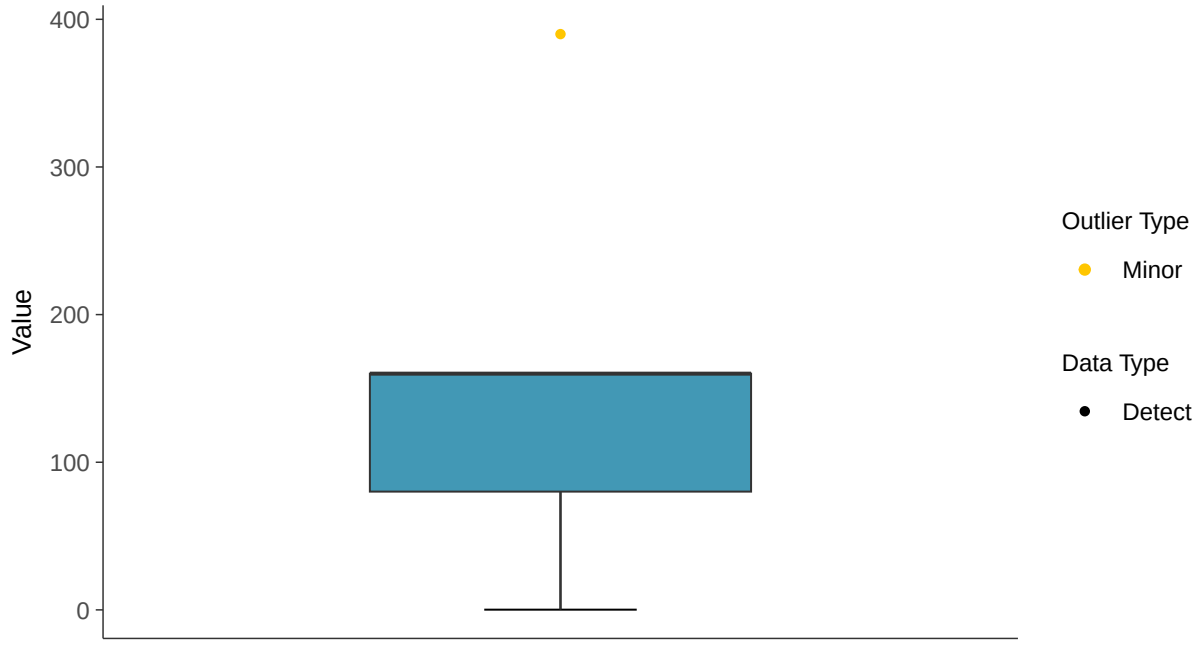
Histogram

Mercury, MW-30 (ng/L)



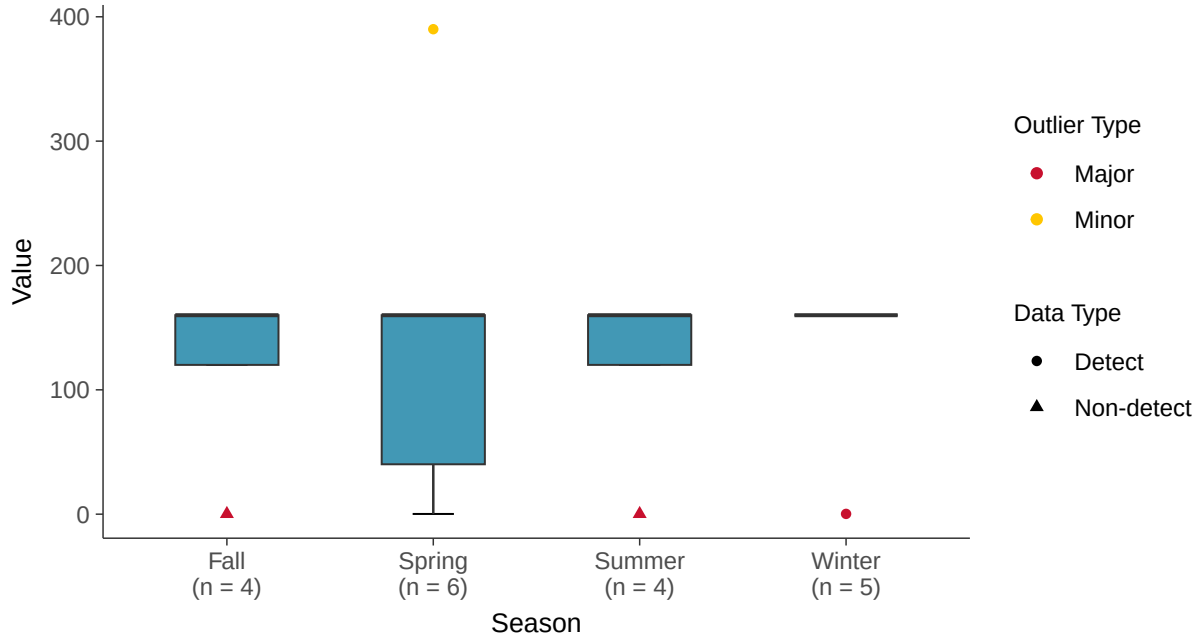
Boxplot

Mercury, MW-30 (ng/L)



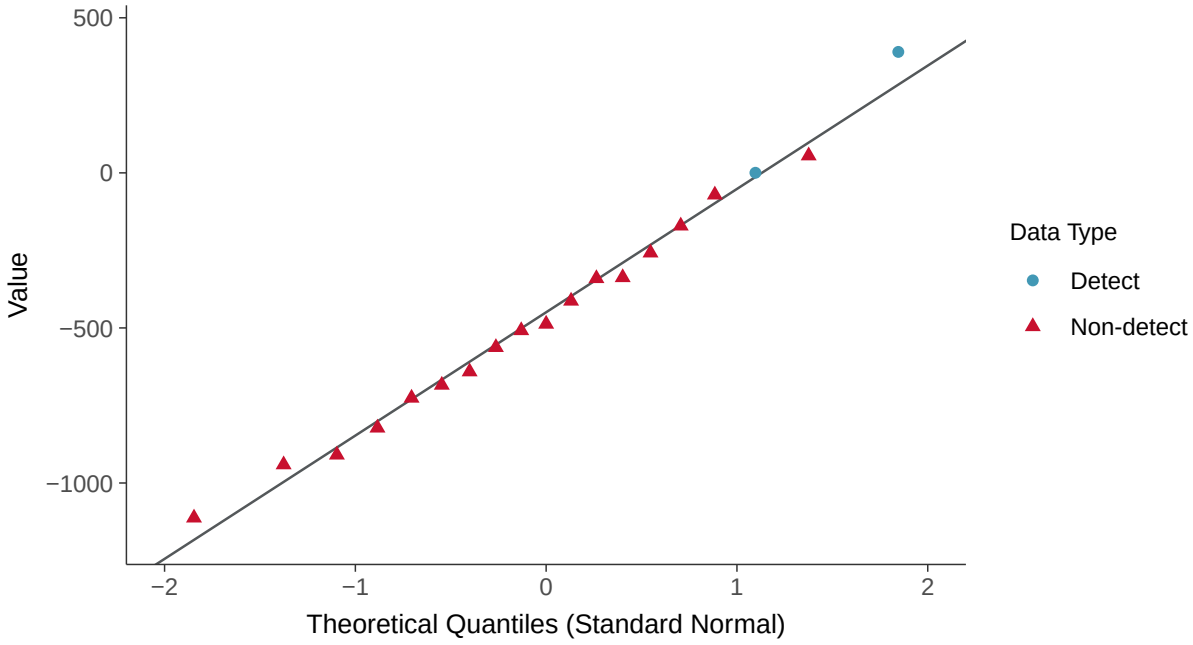
Boxplot by Season

Mercury, MW-30 (ng/L)



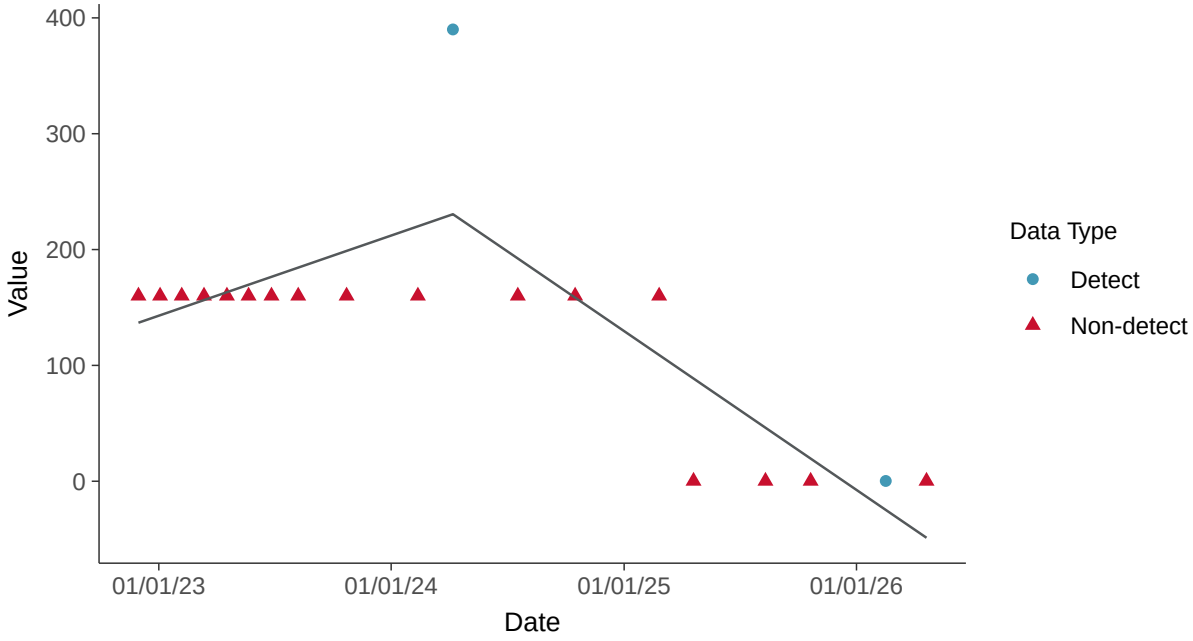
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-30 (ng/L)



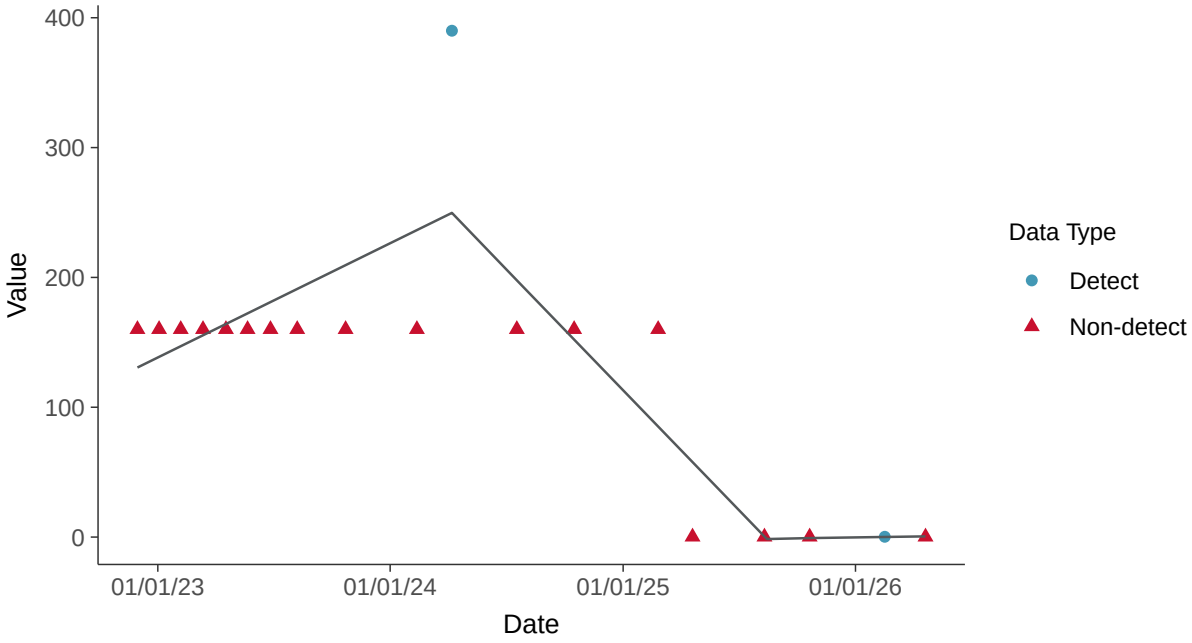
Trend Regression: Piecewise Linear-Linear

Mercury, MW-30 (ng/L)



Trend Regression: Piecewise Linear-Linear-Linear

Mercury, MW-30 (ng/L)

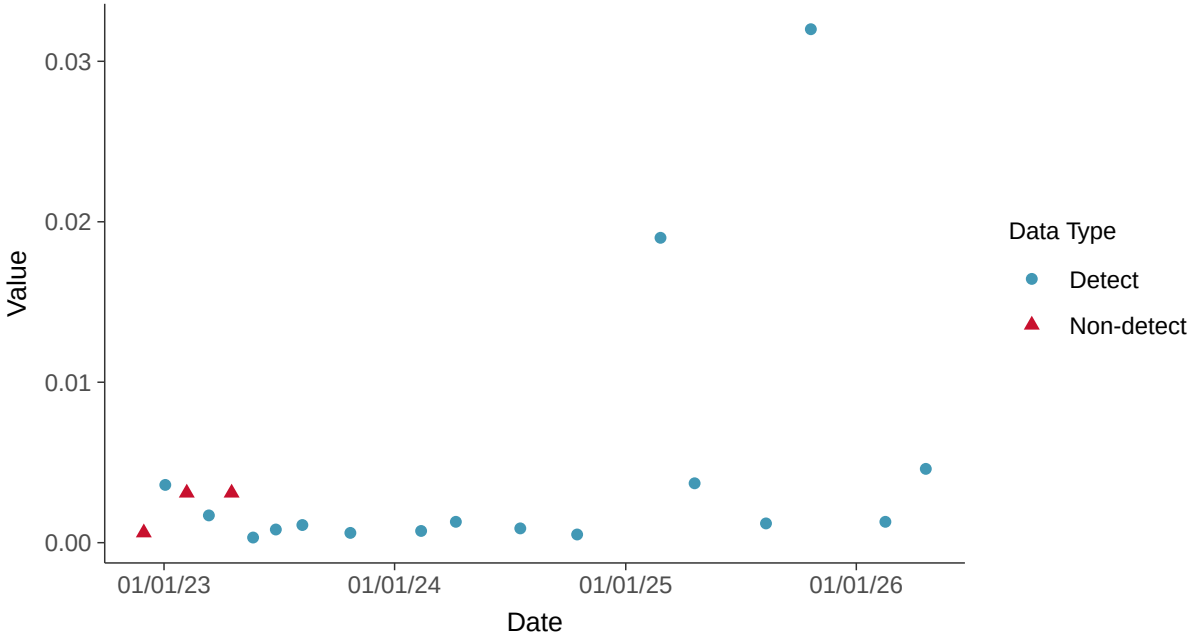


Appendix IV: Molybdenum, MW-30

ID: 40_1_4_118

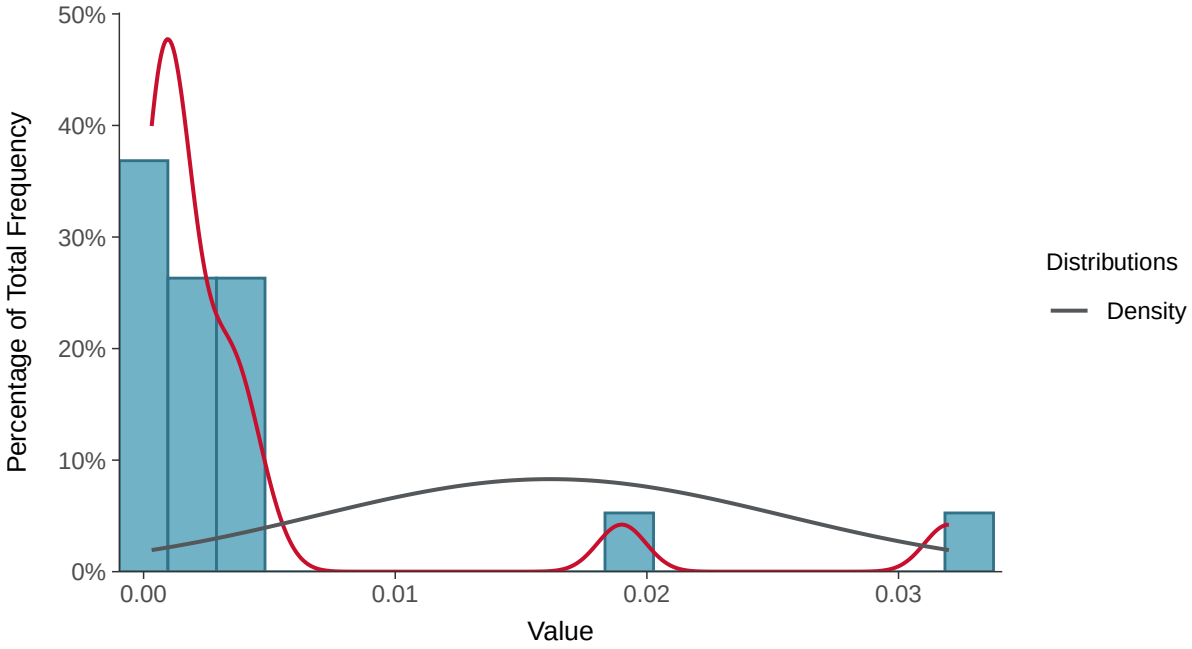
Scatter Plot

Molybdenum, MW-30 (mg/L)



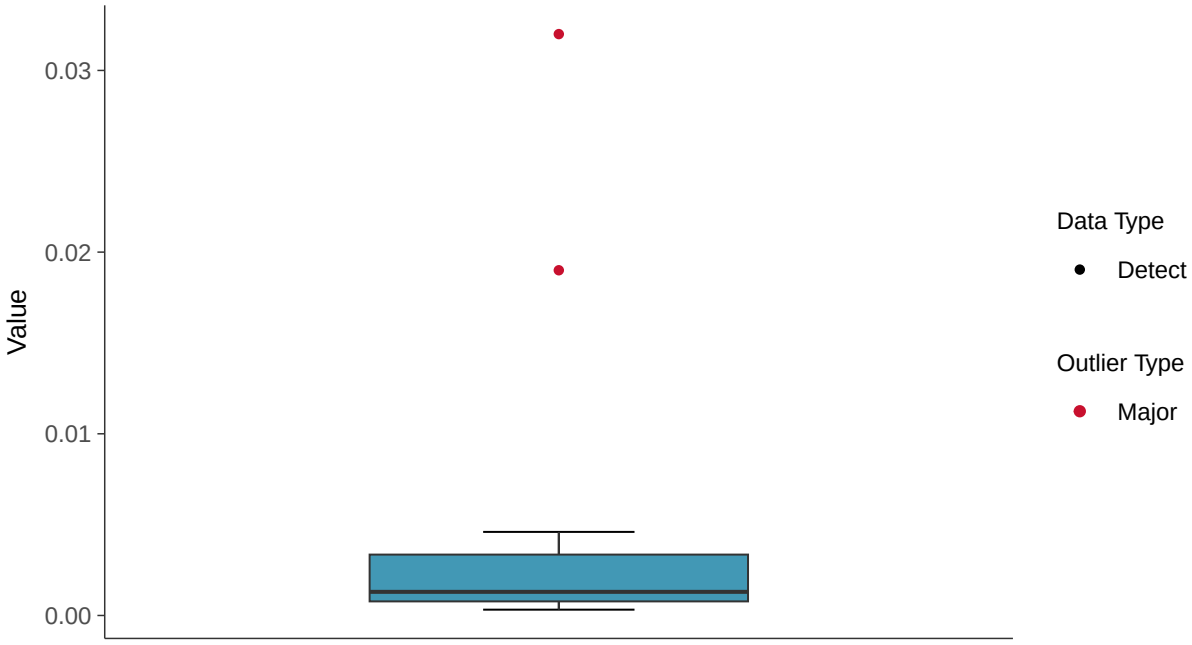
Histogram

Molybdenum, MW-30 (mg/L)



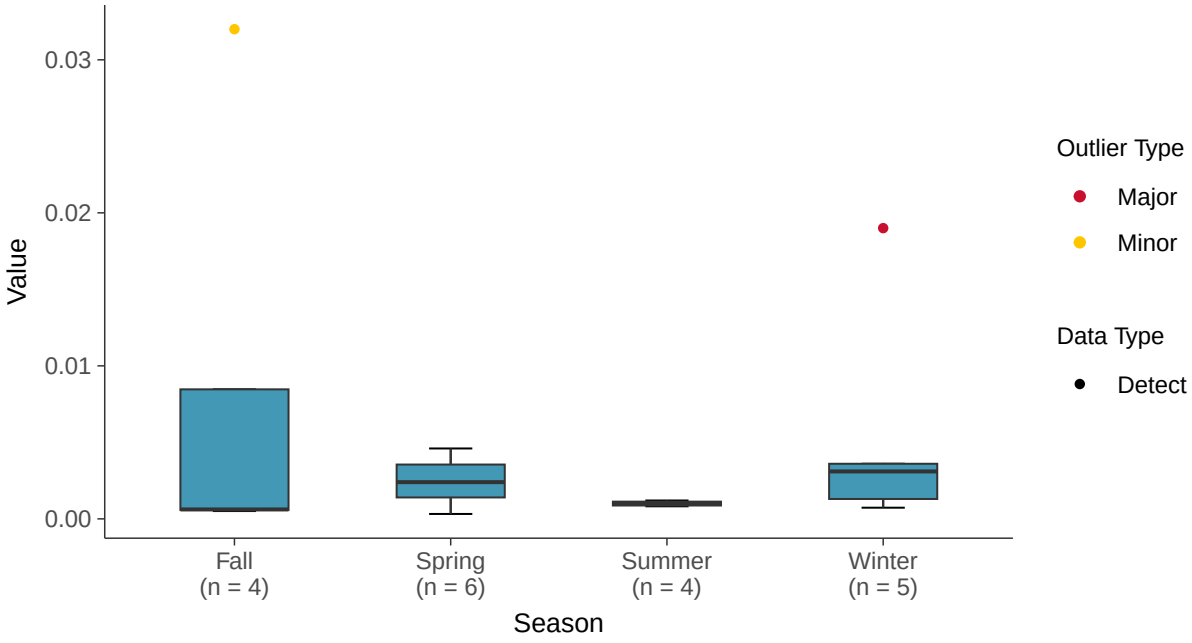
Boxplot

Molybdenum, MW-30 (mg/L)



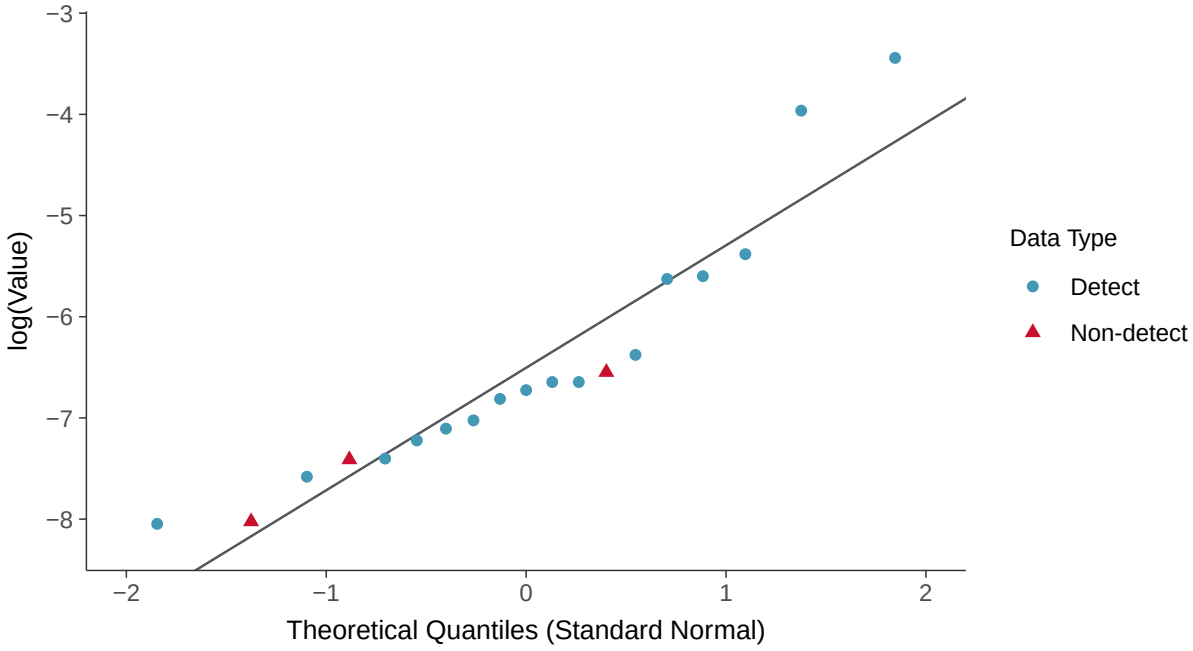
Boxplot by Season

Molybdenum, MW-30 (mg/L)



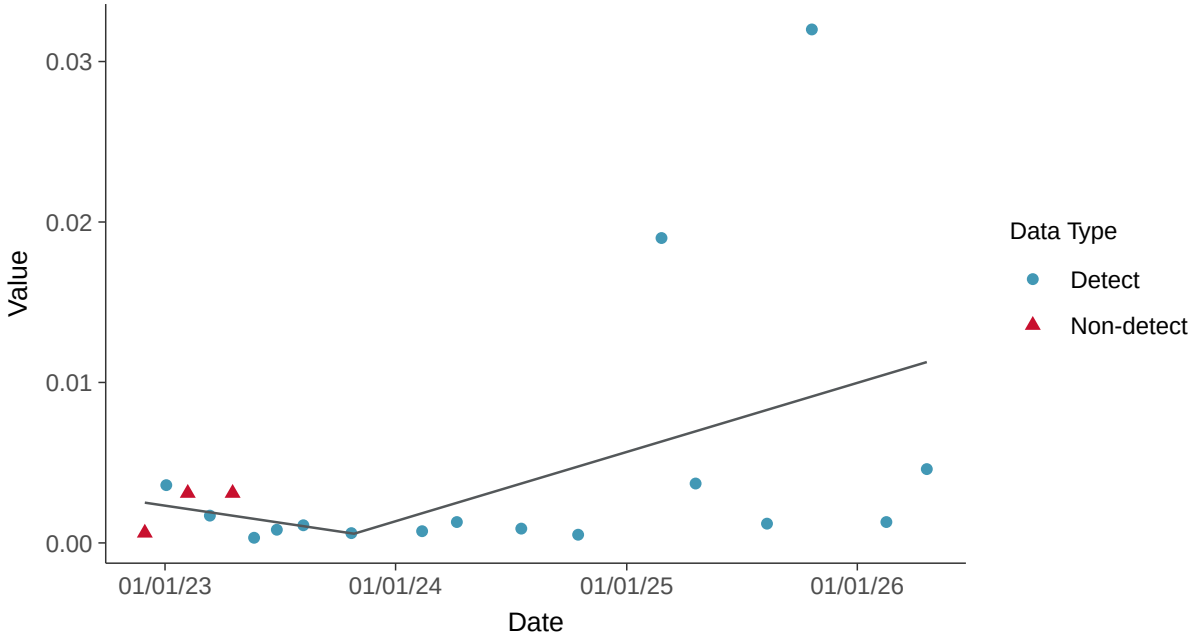
Lognormal Q-Q plot using ROS Imputed Estimates

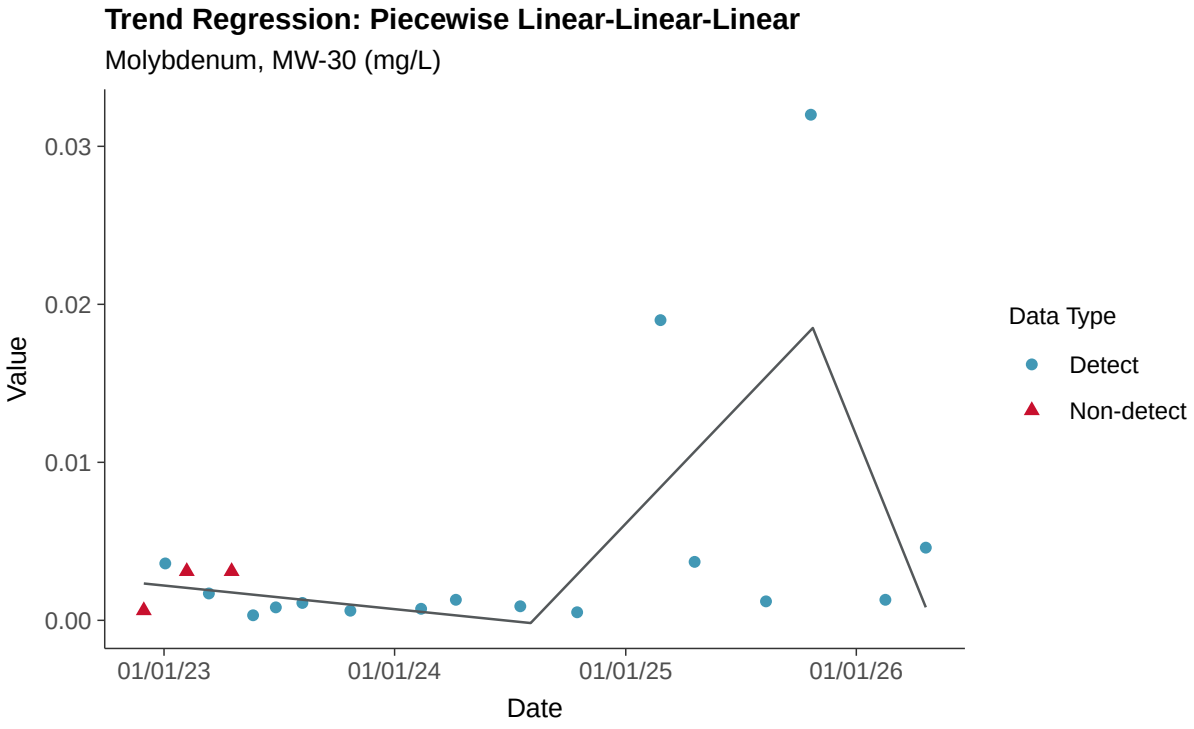
Molybdenum, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-30 (mg/L)



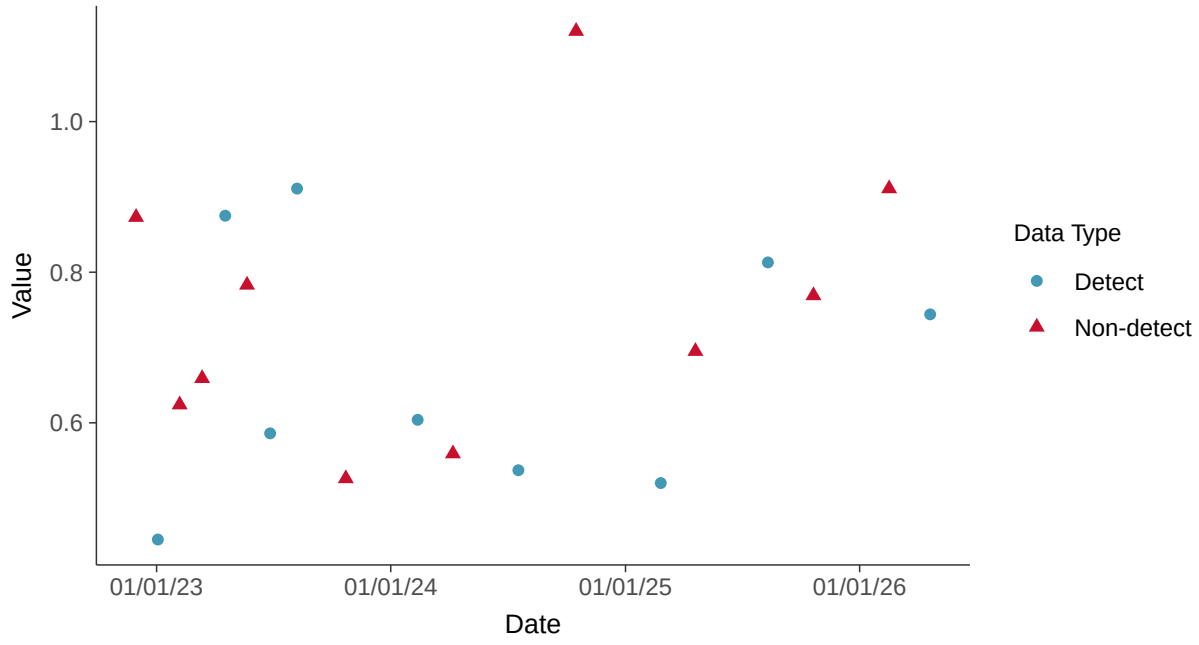

Trend Regression: Piecewise Linear-Linear-Linear
Molybdenum, MW-30 (mg/L)
Value
0.03
0.02
0.01
0.00
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Radium 226 and 228, MW-30

ID: 40_1_4_121

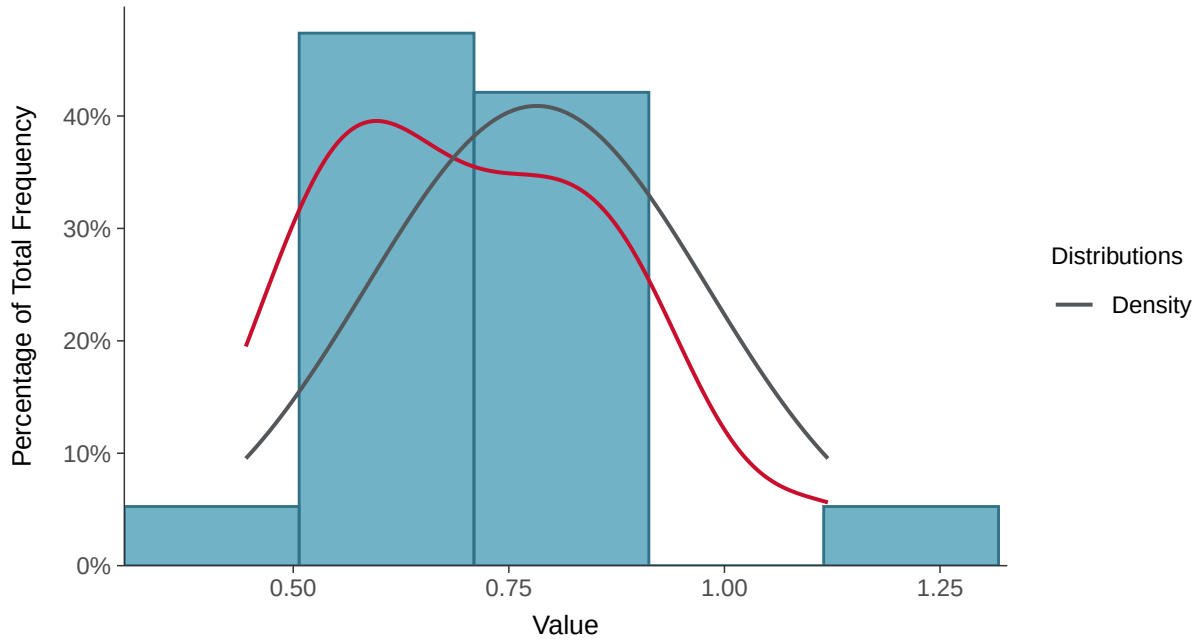
Scatter Plot

Radium 226 and 228, MW-30 (pCi/L)



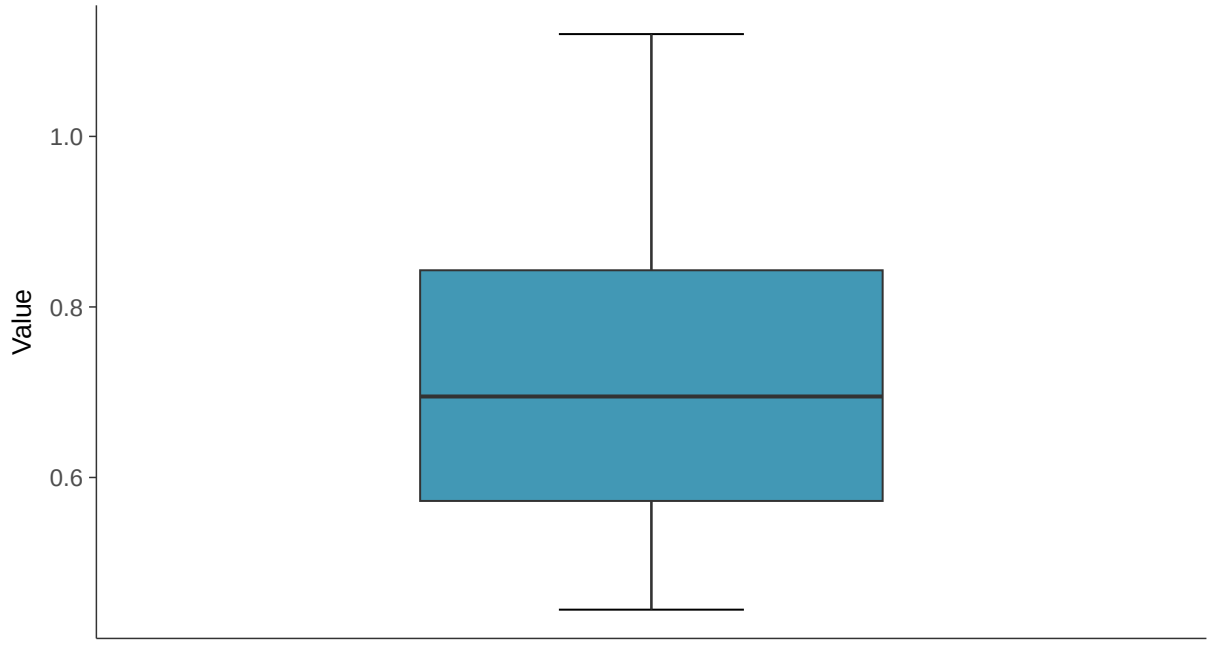
Histogram

Radium 226 and 228, MW-30 (pCi/L)



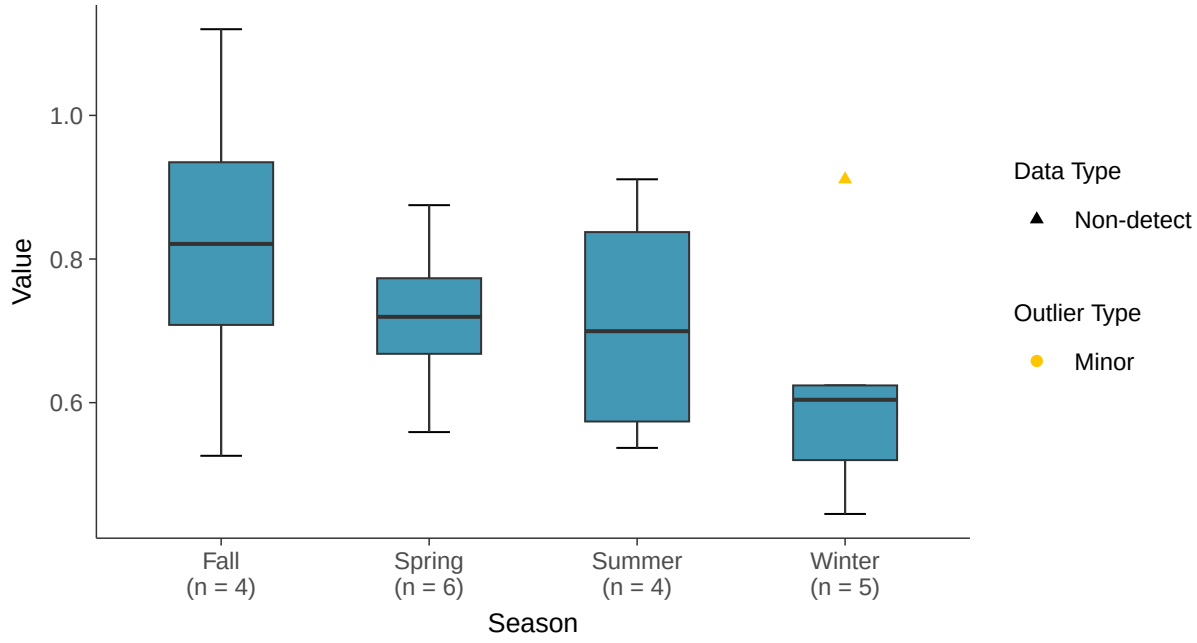
Boxplot

Radium 226 and 228, MW-30 (pCi/L)



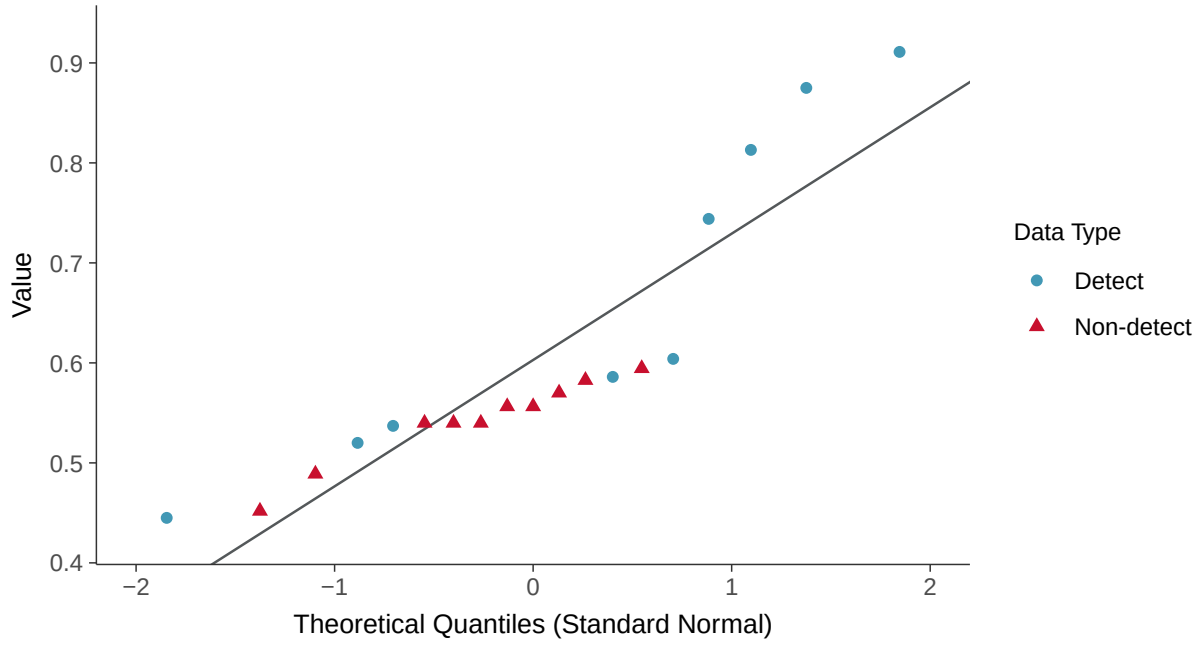
Boxplot by Season

Radium 226 and 228, MW-30 (pCi/L)



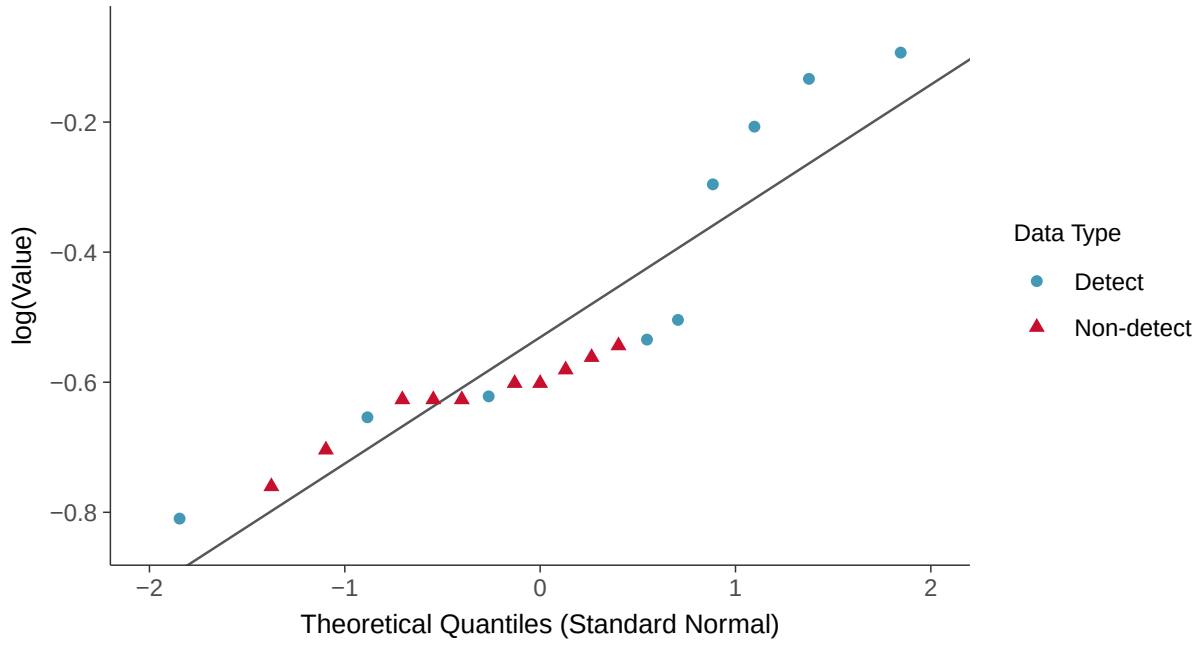
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



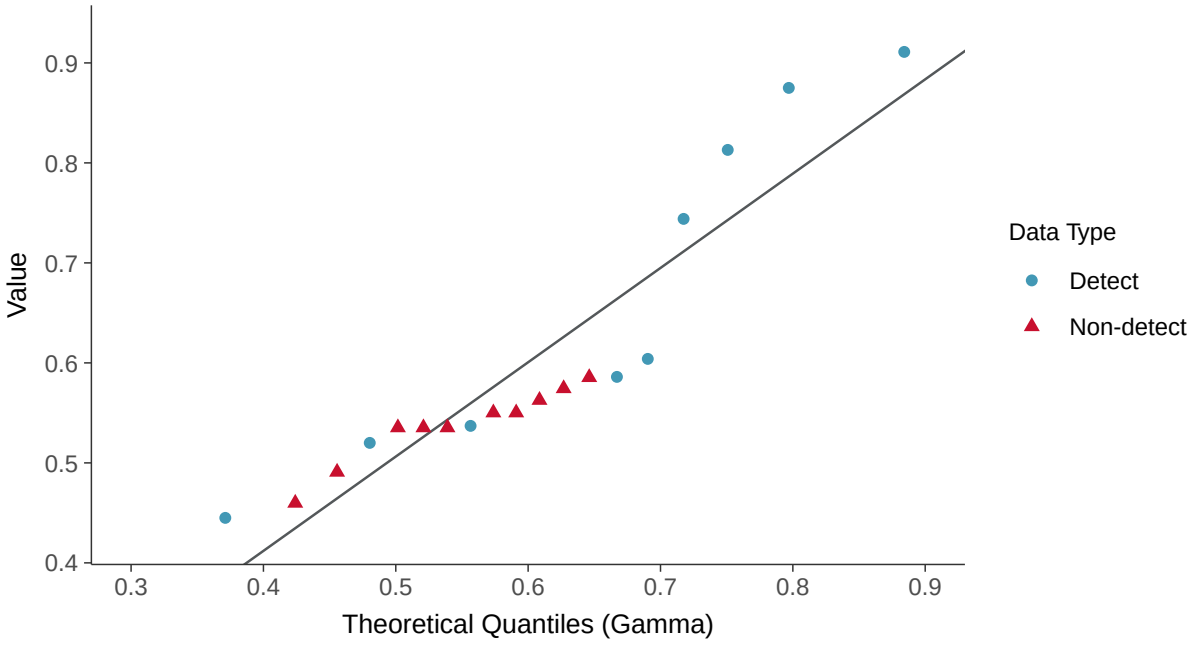
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



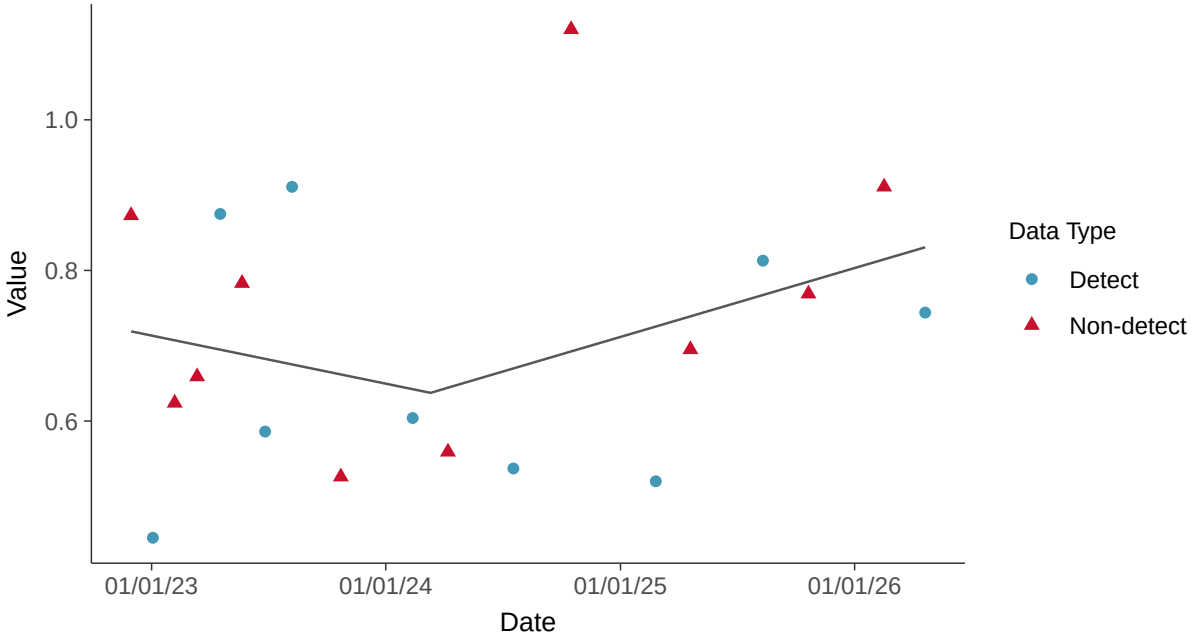
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-30 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-30 (pCi/L)

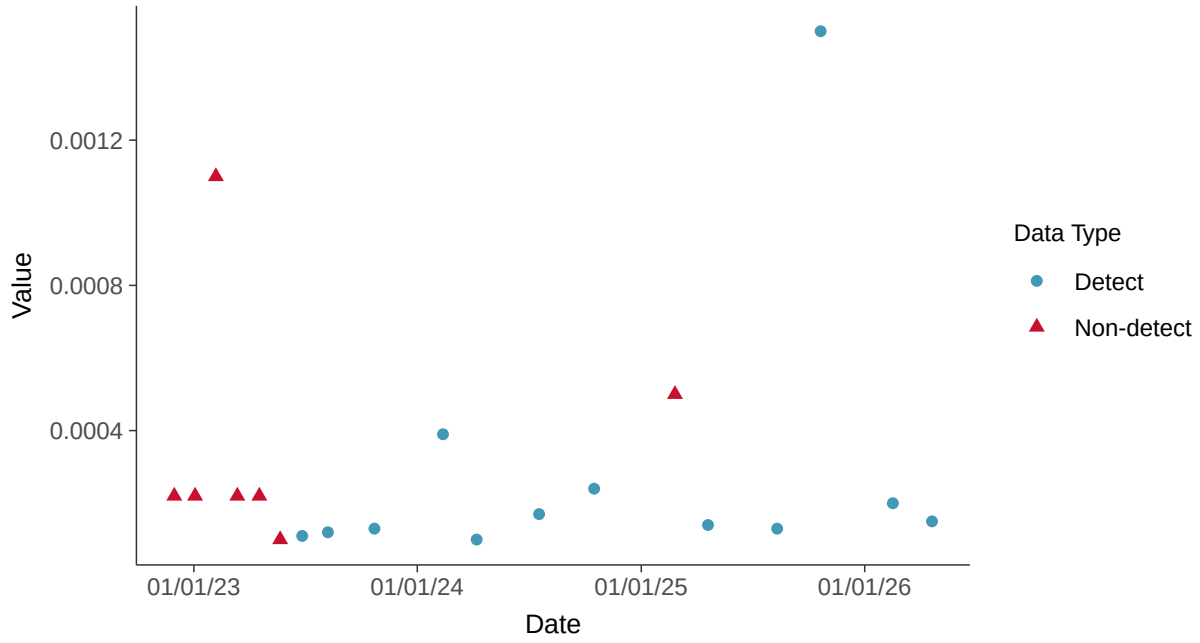


Appendix IV: Selenium, MW-30

ID: 40_1_4_122

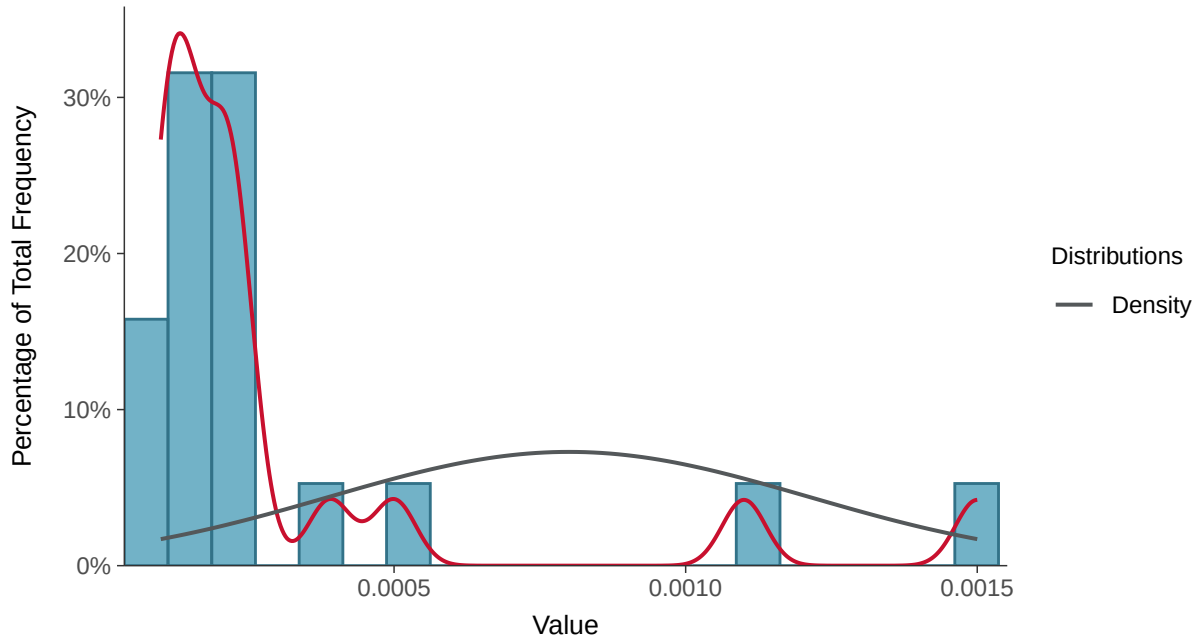
Scatter Plot

Selenium, MW-30 (mg/L)



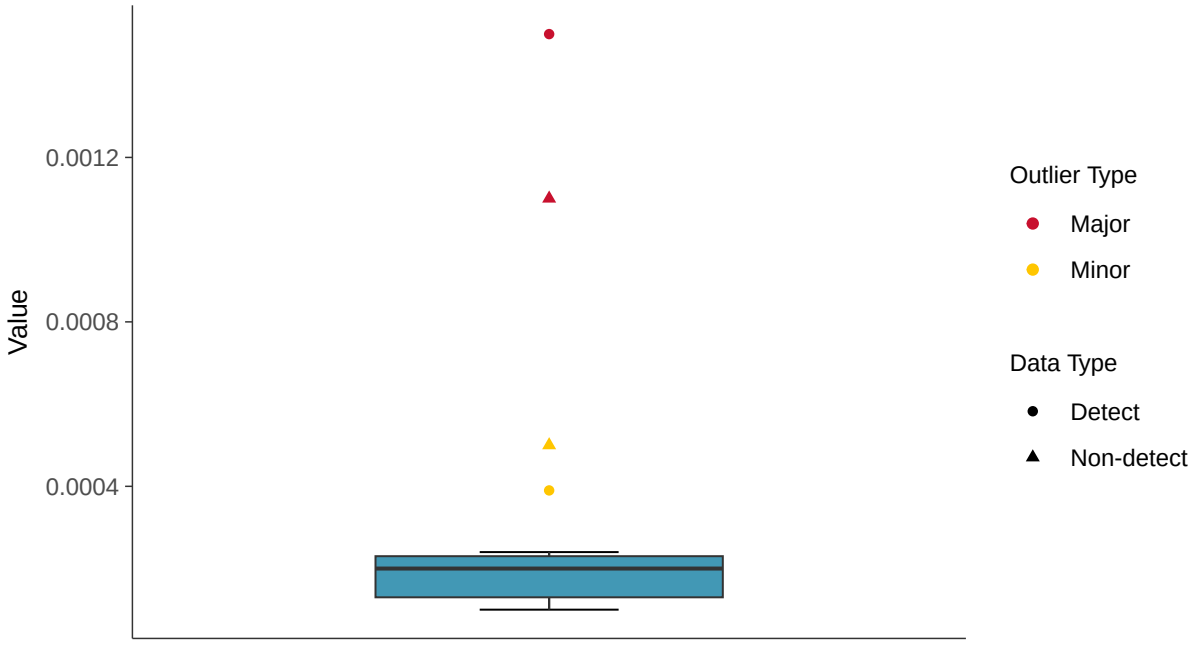
Histogram

Selenium, MW-30 (mg/L)



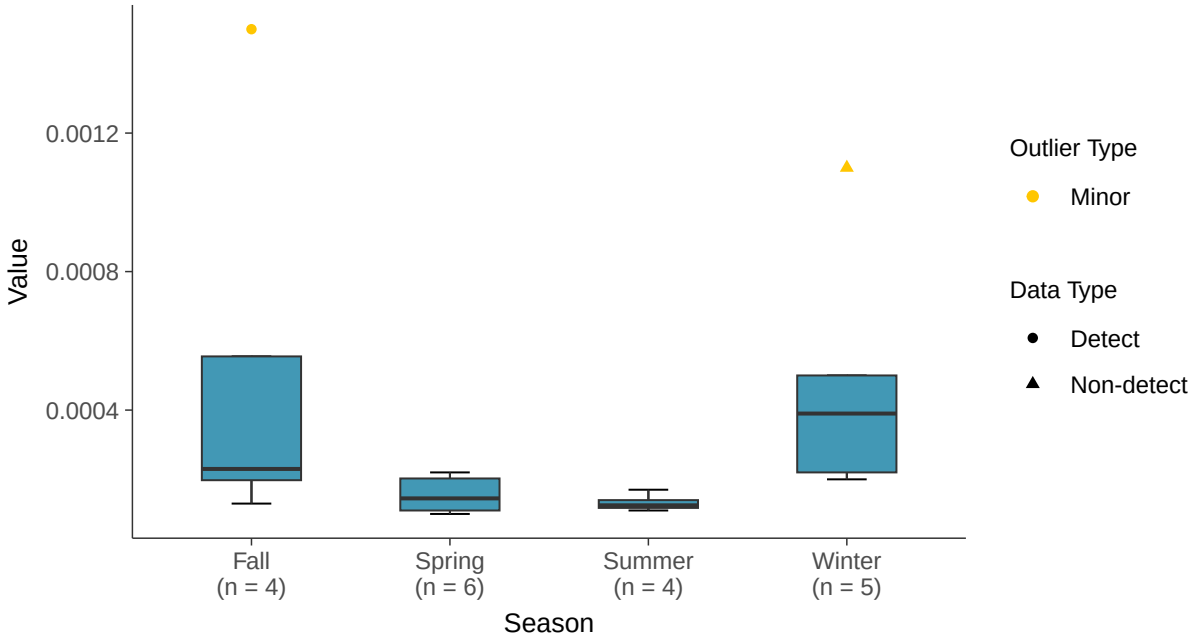
Boxplot

Selenium, MW-30 (mg/L)



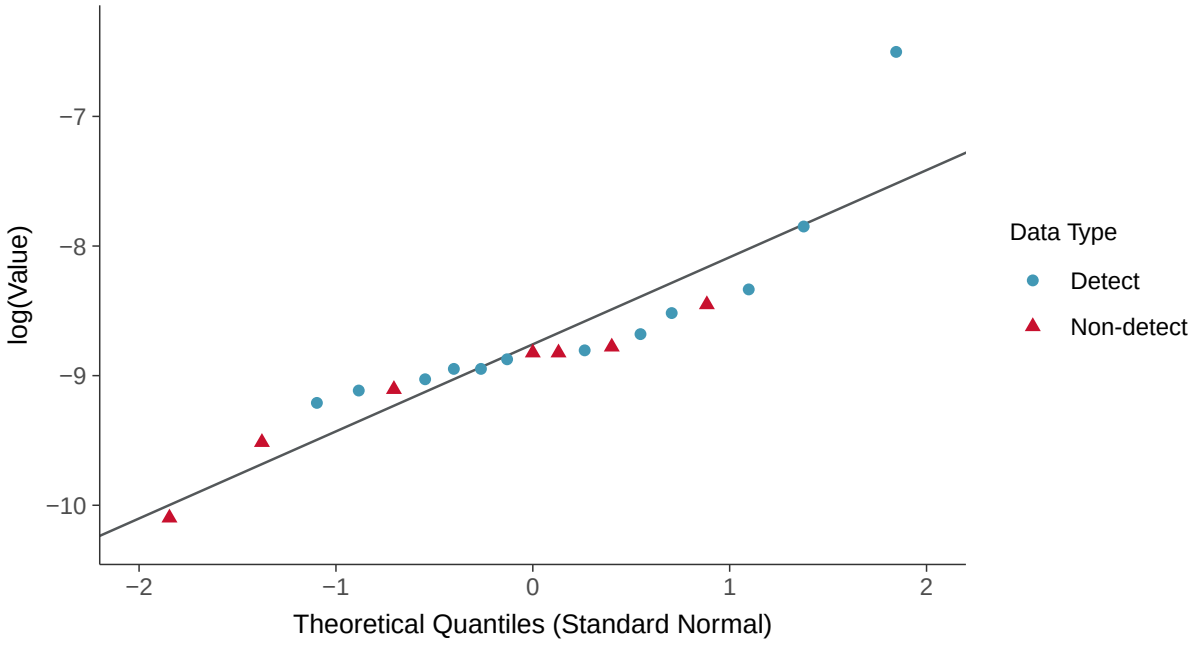
Boxplot by Season

Selenium, MW-30 (mg/L)



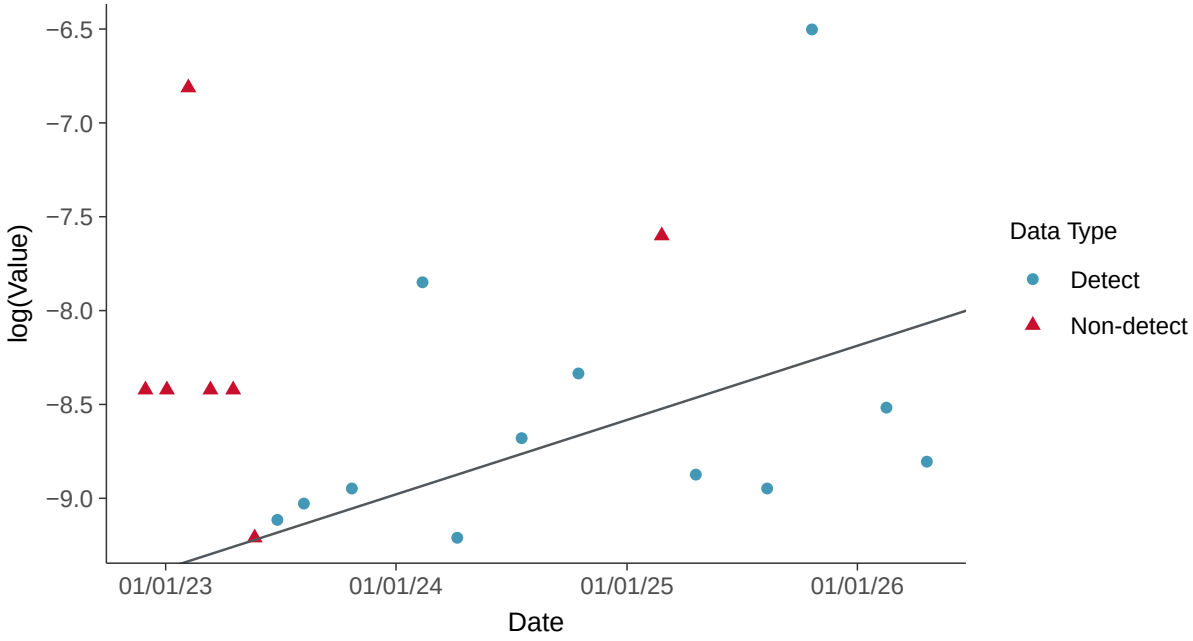
Lognormal Q-Q plot using ROS Imputed Estimates

Selenium, MW-30 (mg/L)



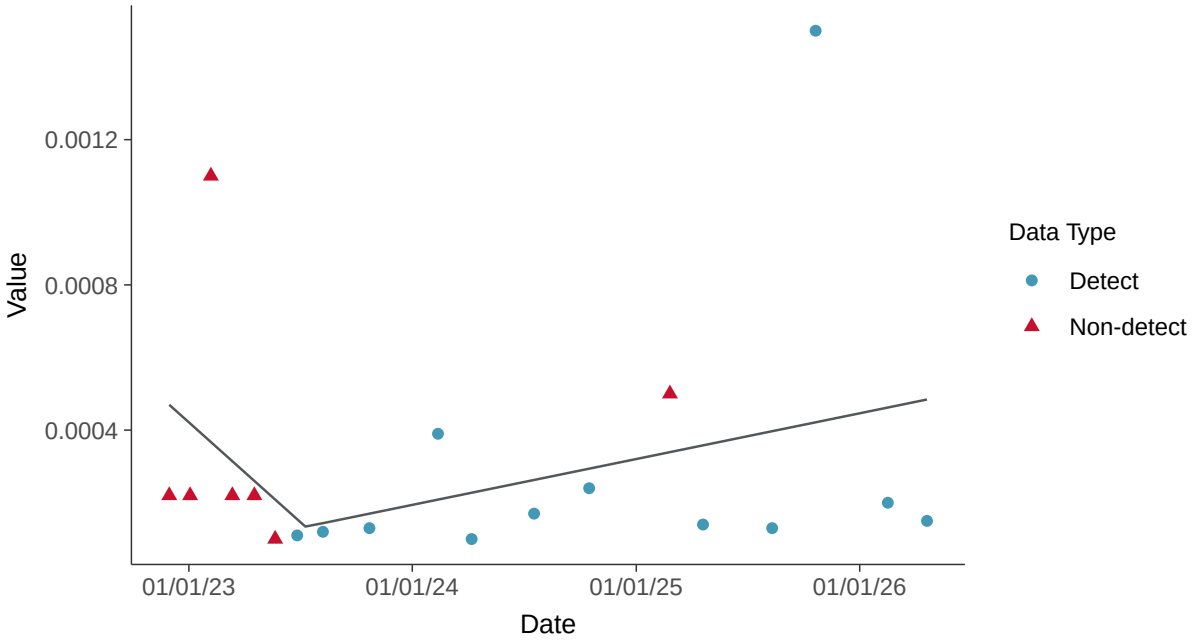
Trend Regression: Lognormal MLE

Selenium, MW-30 (mg/L)



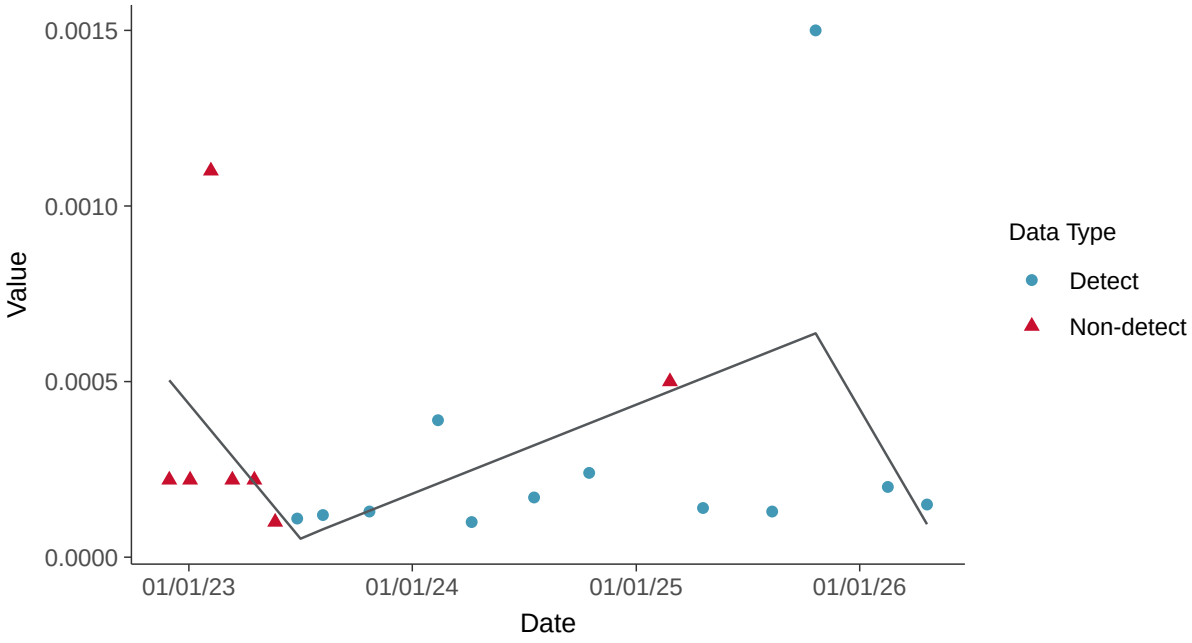
Trend Regression: Piecewise Linear-Linear

Selenium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-30 (mg/L)

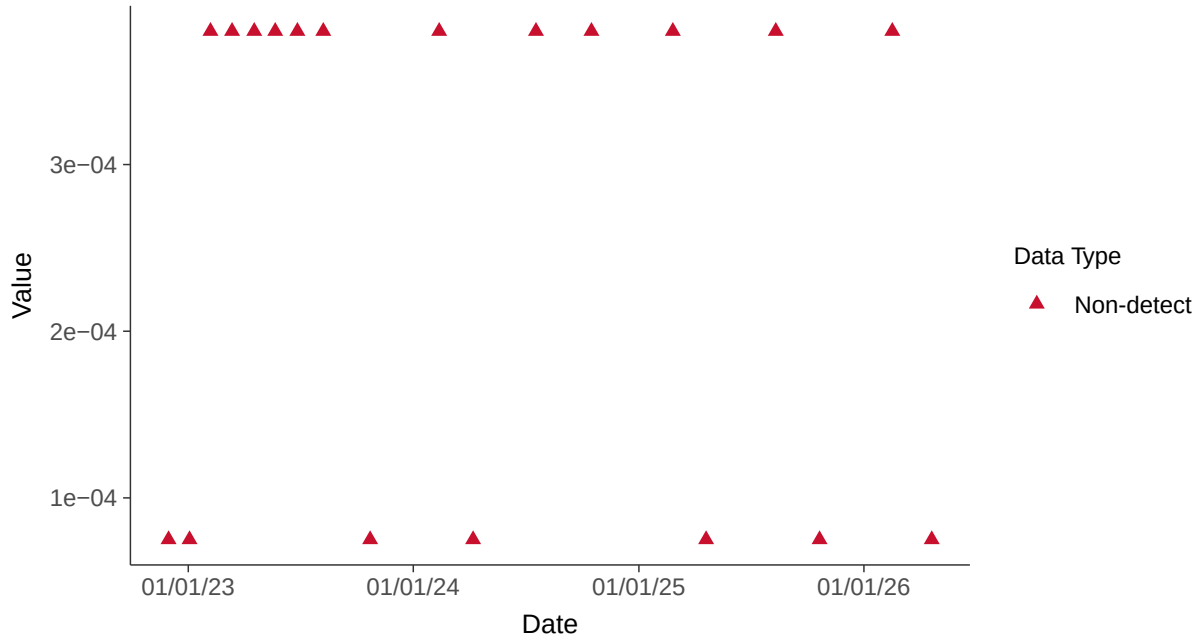


Appendix IV: Thallium, MW-30

ID: 40_1_4_125

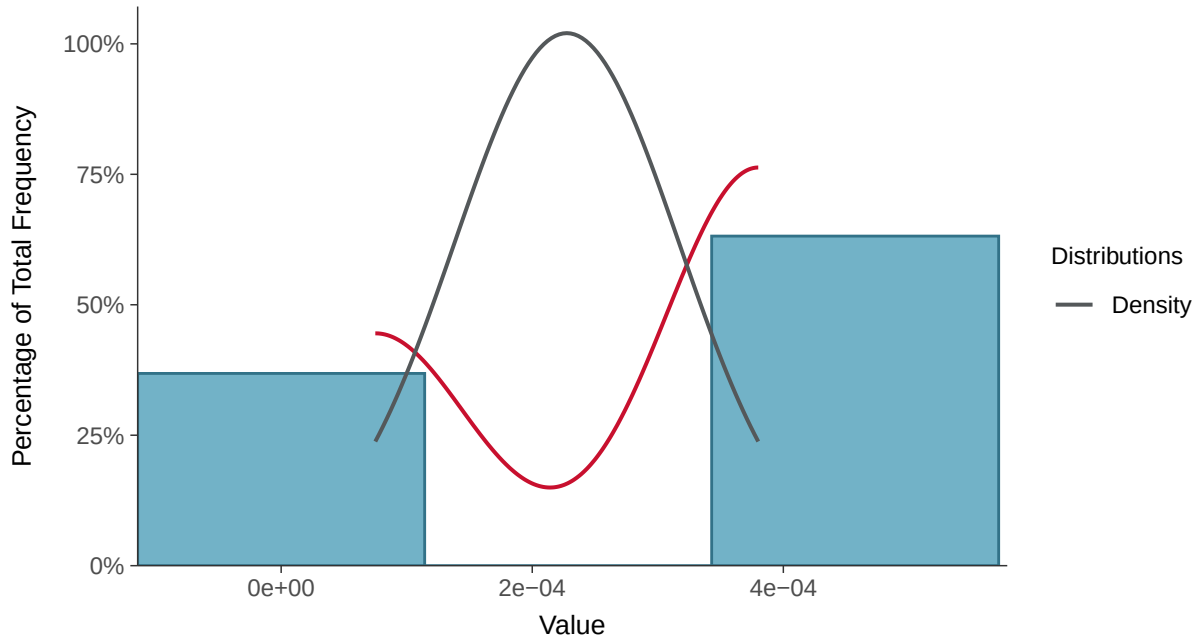
Scatter Plot

Thallium, MW-30 (mg/L)



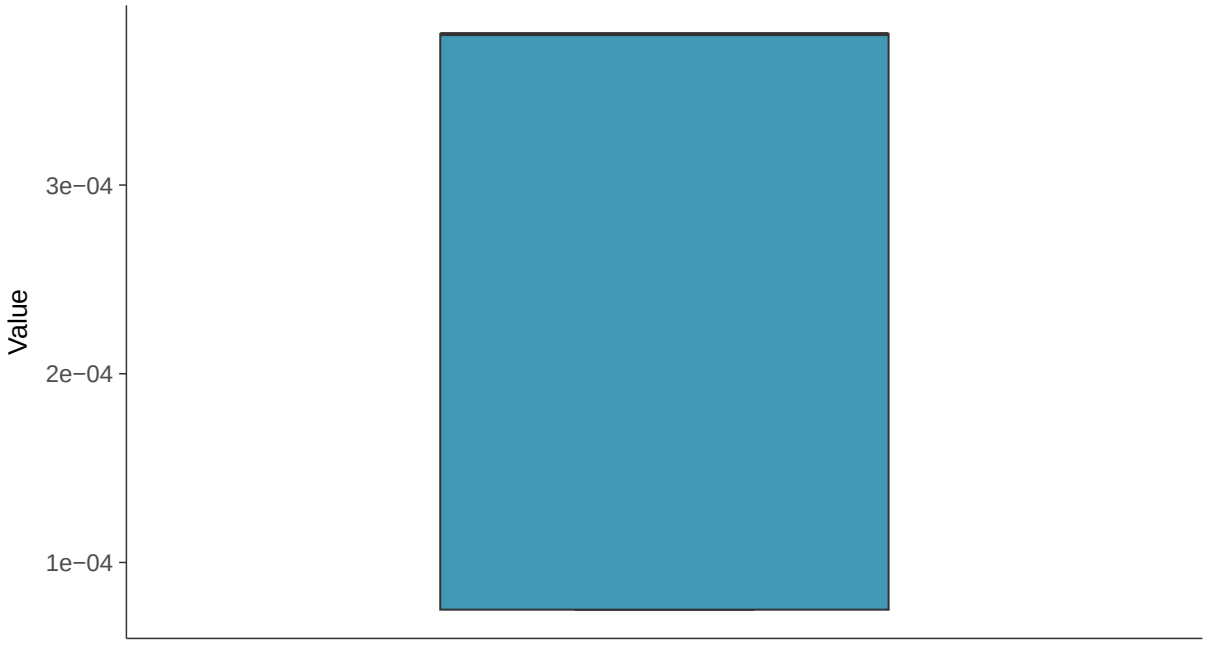
Histogram

Thallium, MW-30 (mg/L)



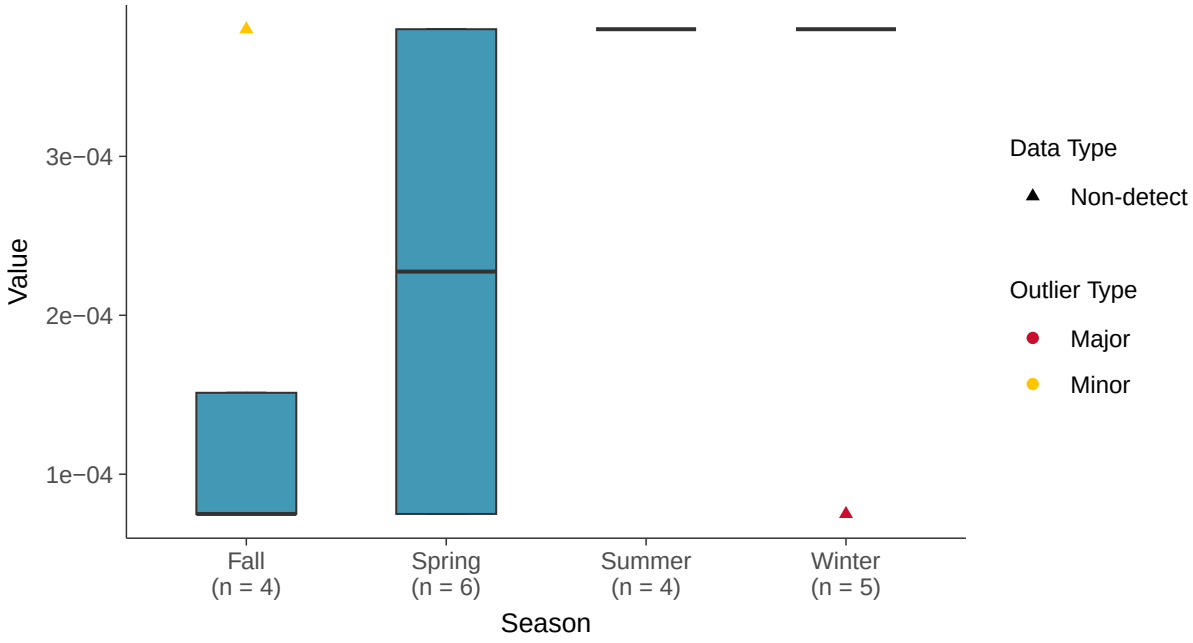
Boxplot

Thallium, MW-30 (mg/L)



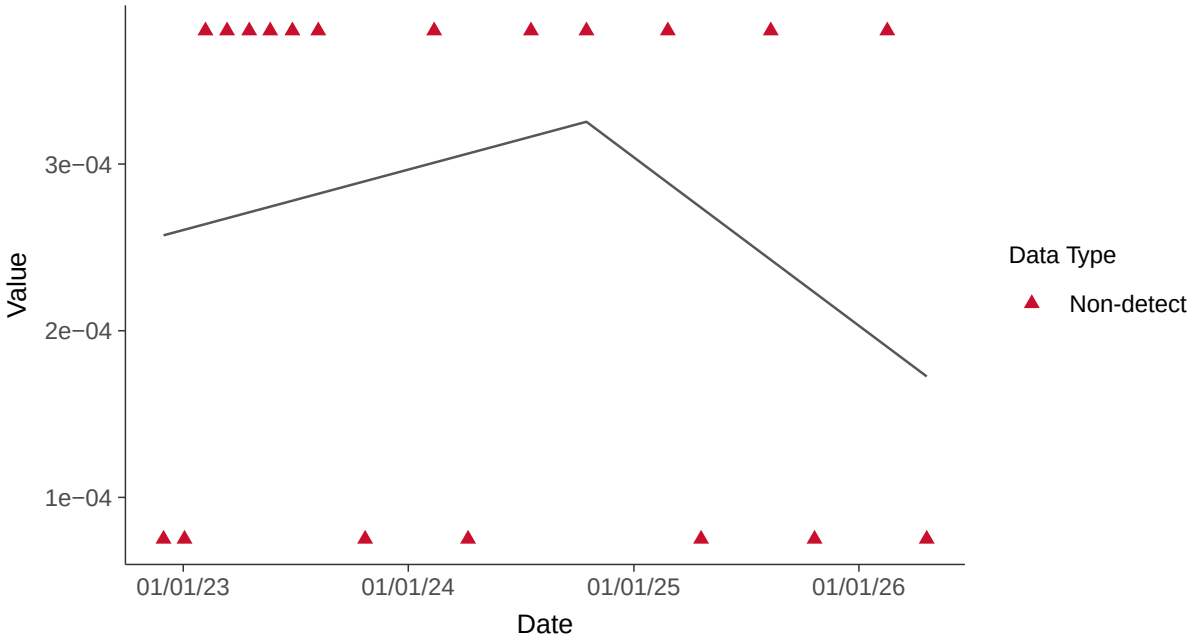
Boxplot by Season

Thallium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Thallium, MW-30 (mg/L)

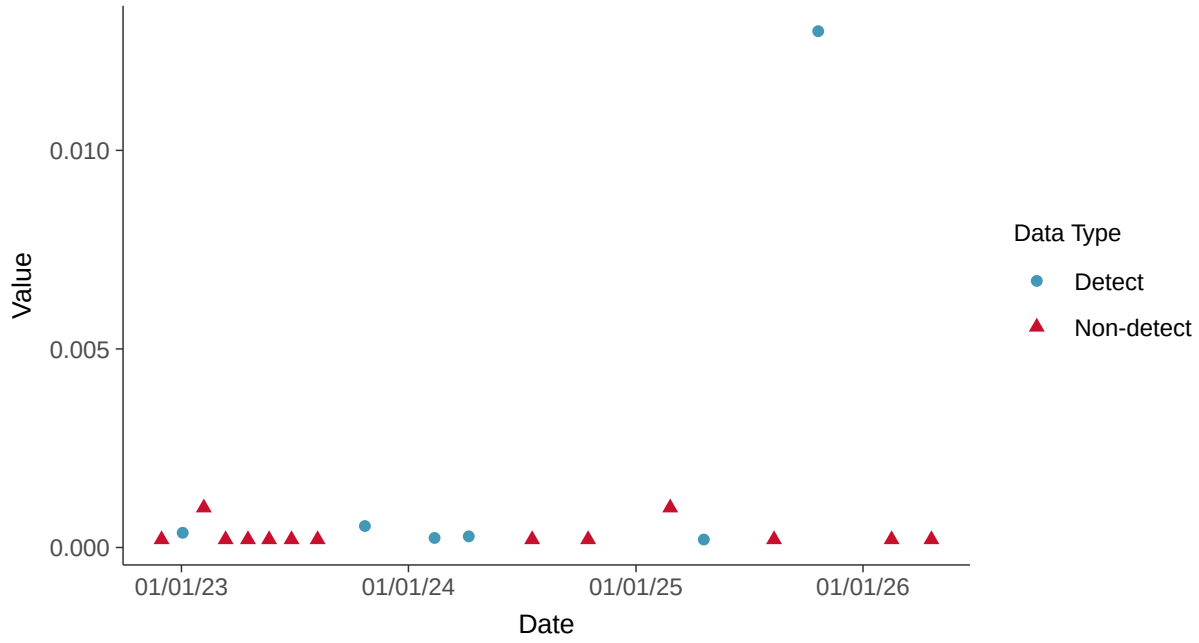


Part 115: Copper, MW-30

ID: 40_1_5_111

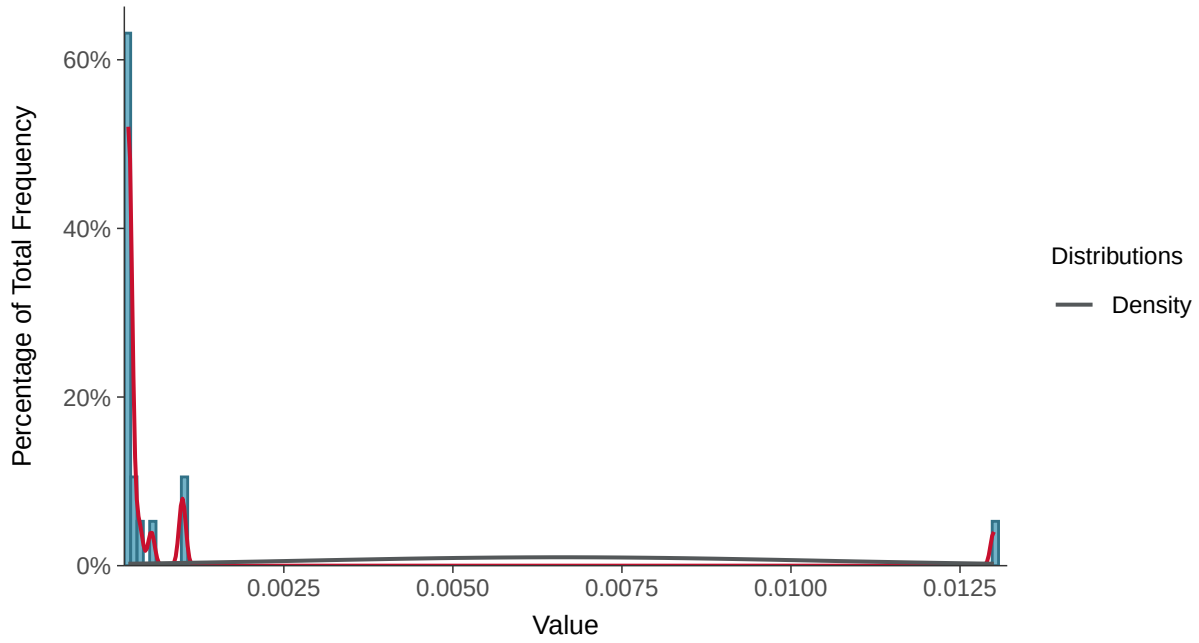
Scatter Plot

Copper, MW-30 (mg/L)



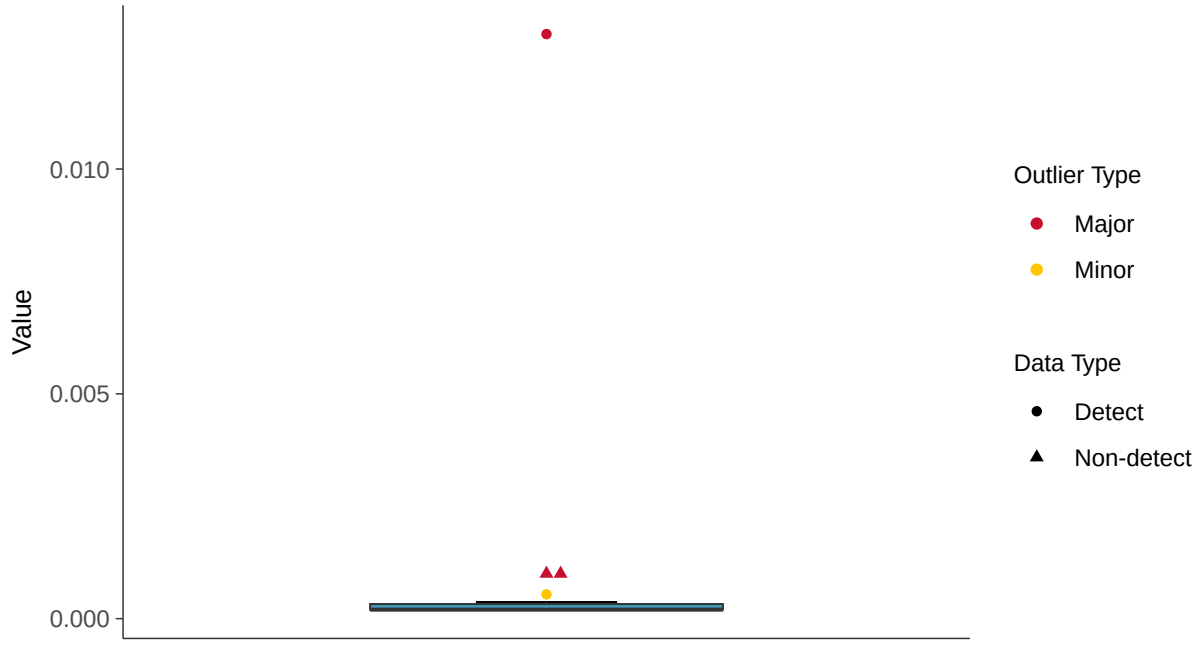
Histogram

Copper, MW-30 (mg/L)



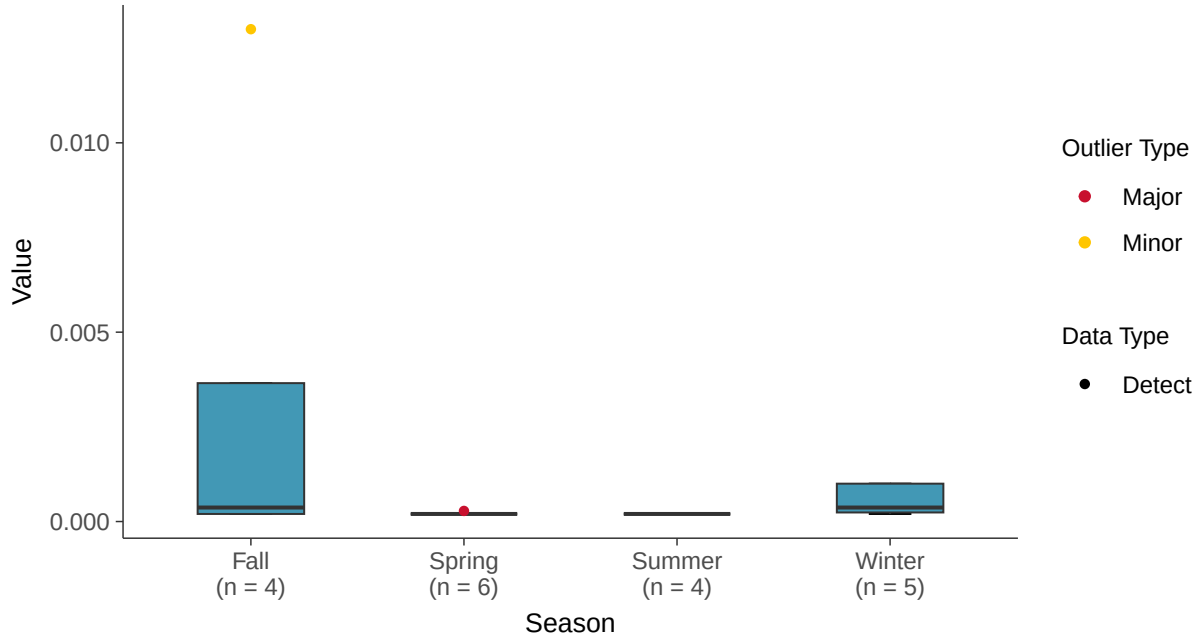
Boxplot

Copper, MW-30 (mg/L)



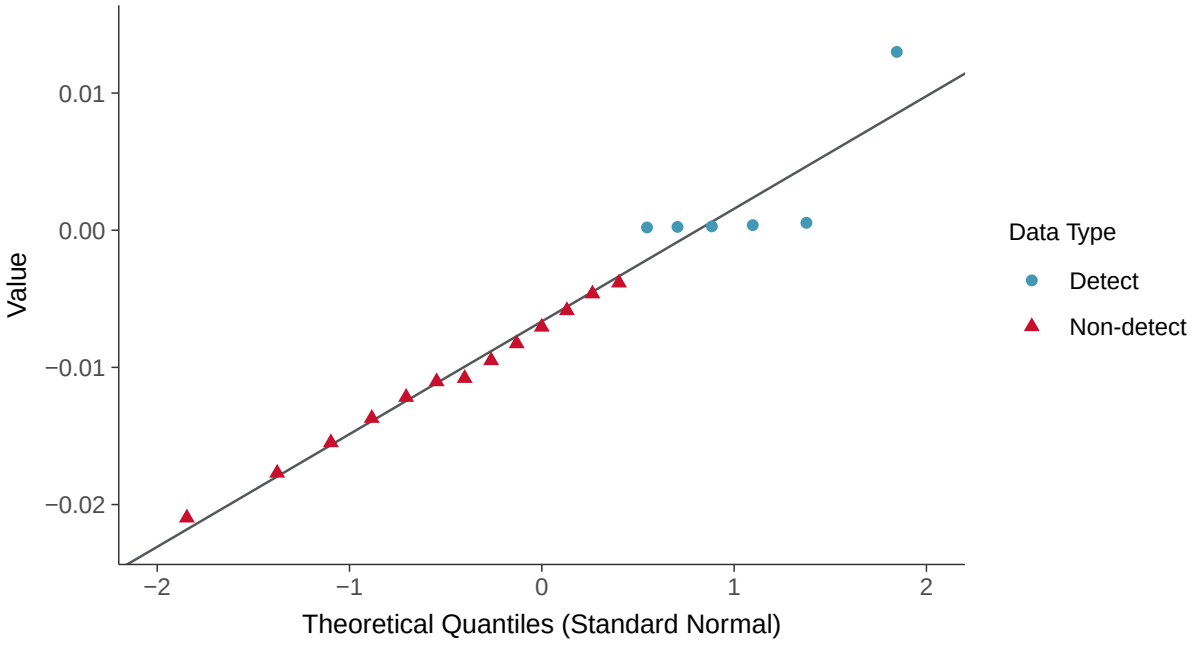
Boxplot by Season

Copper, MW-30 (mg/L)



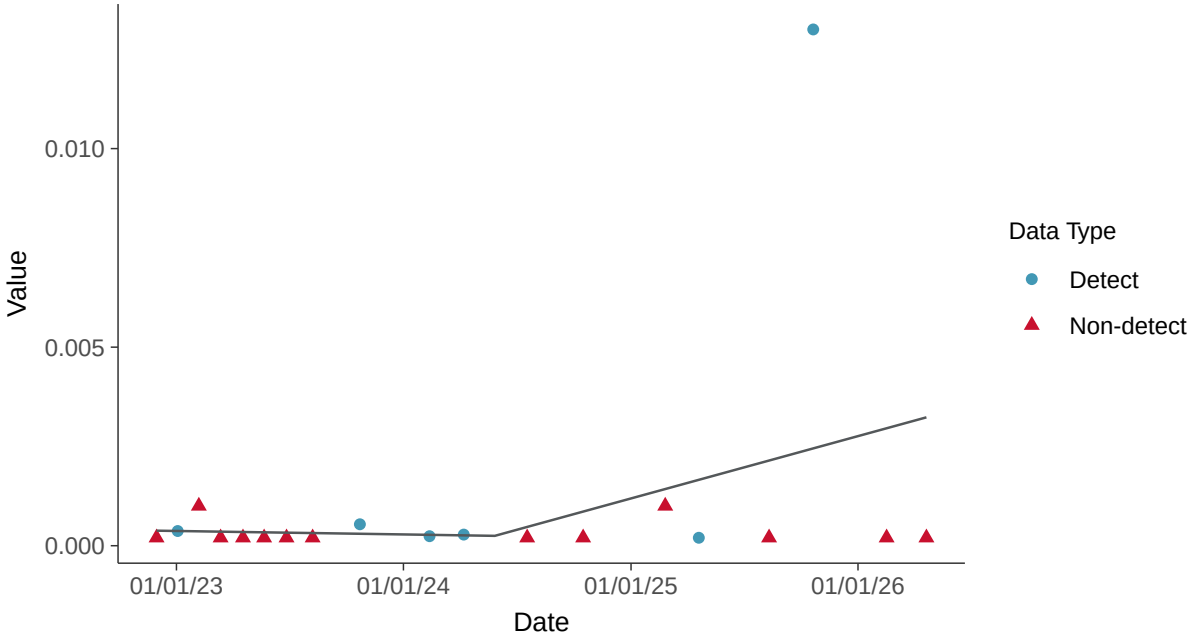
Normal Q-Q plot using ROS Imputed Estimates

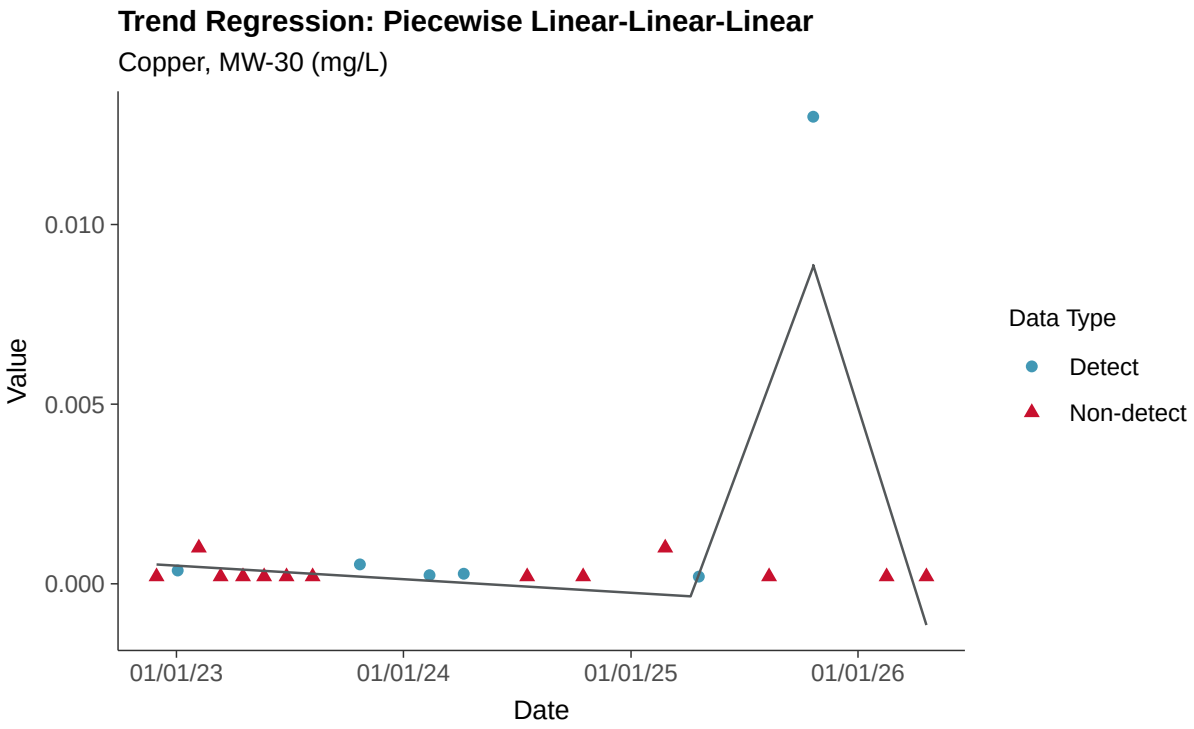
Copper, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-30 (mg/L)



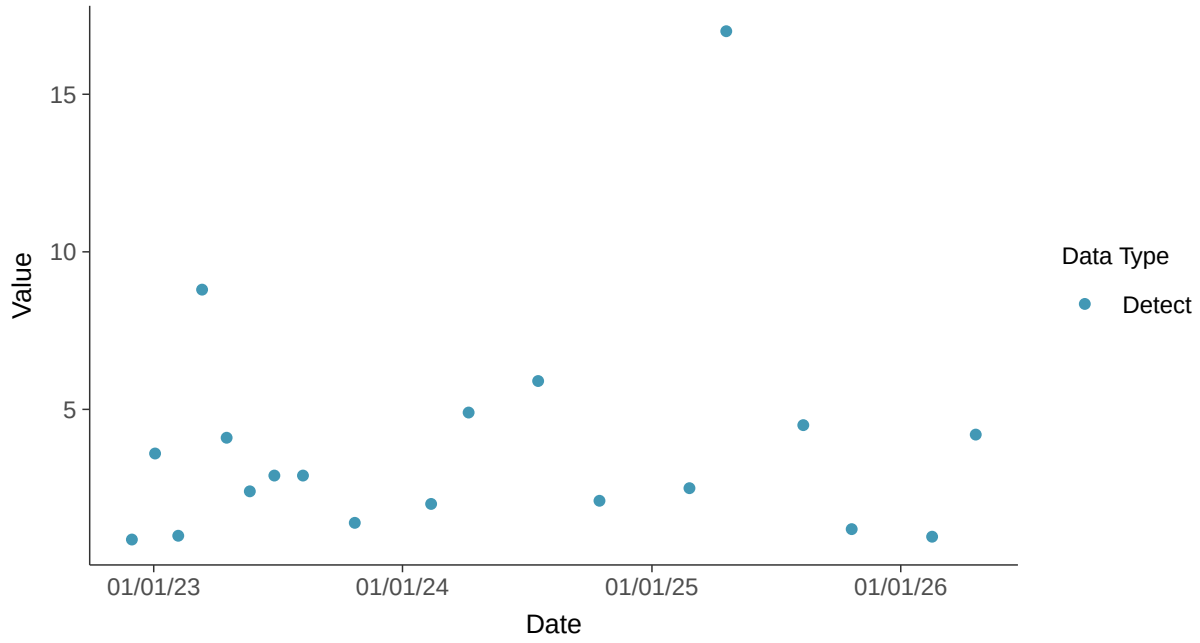

Trend Regression: Piecewise Linear-Linear-Linear
Copper, MW-30 (mg/L)
Value
0.010
0.005
0.000
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Iron, MW-30

ID: 40_1_5_114

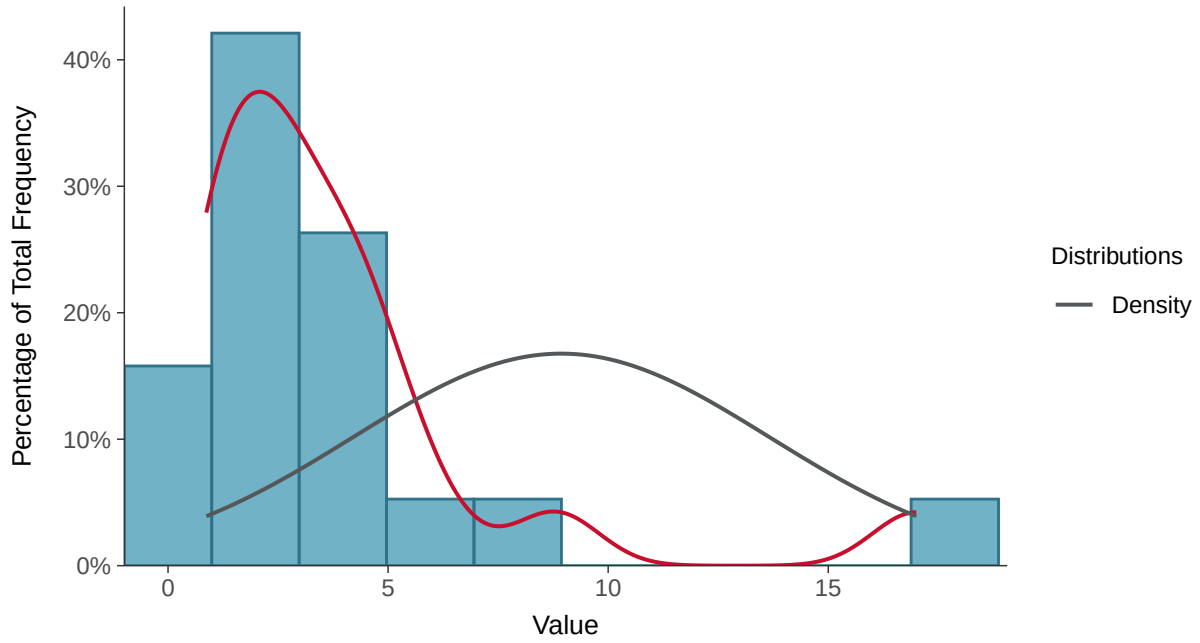
Scatter Plot

Iron, MW-30 (mg/L)



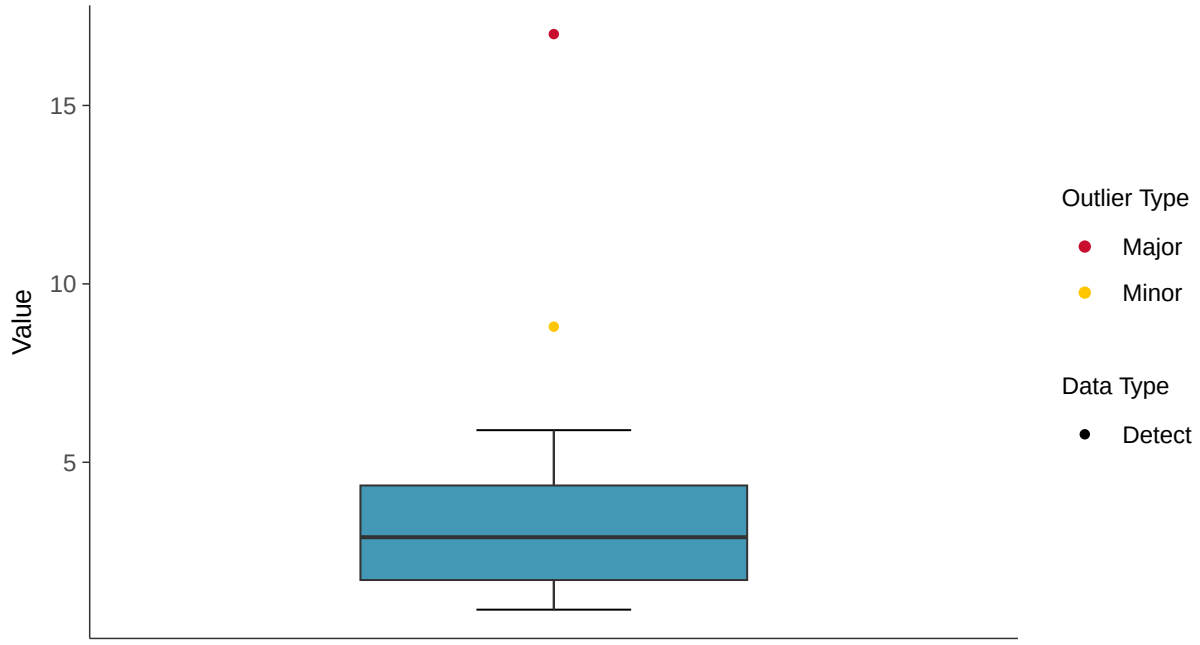
Histogram

Iron, MW-30 (mg/L)



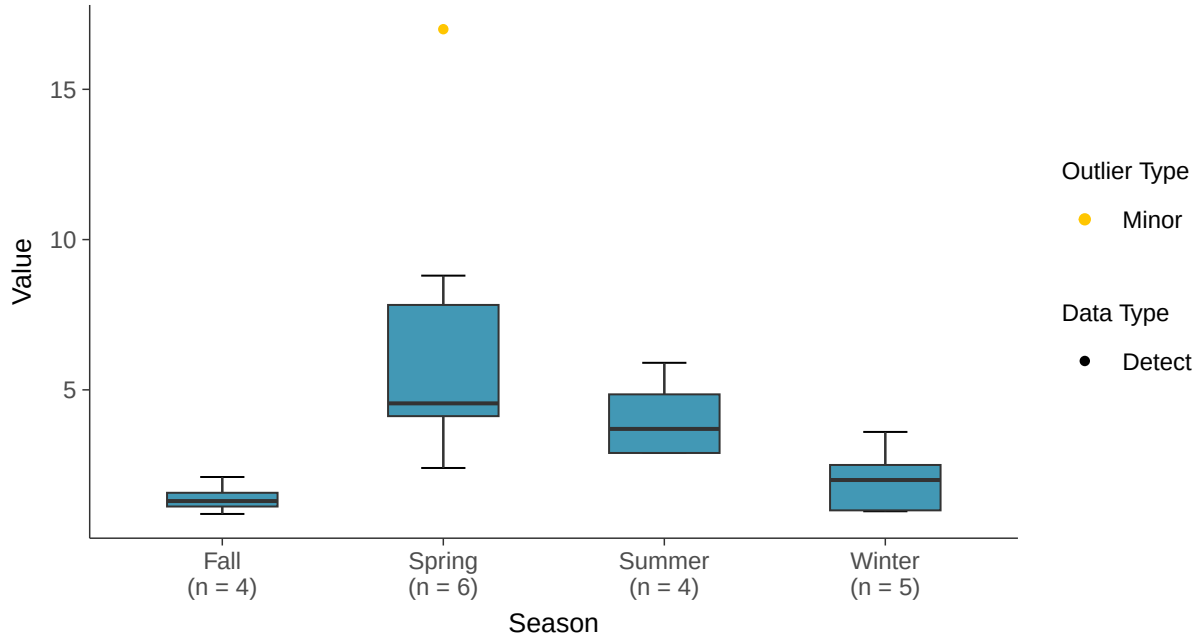
Boxplot

Iron, MW-30 (mg/L)



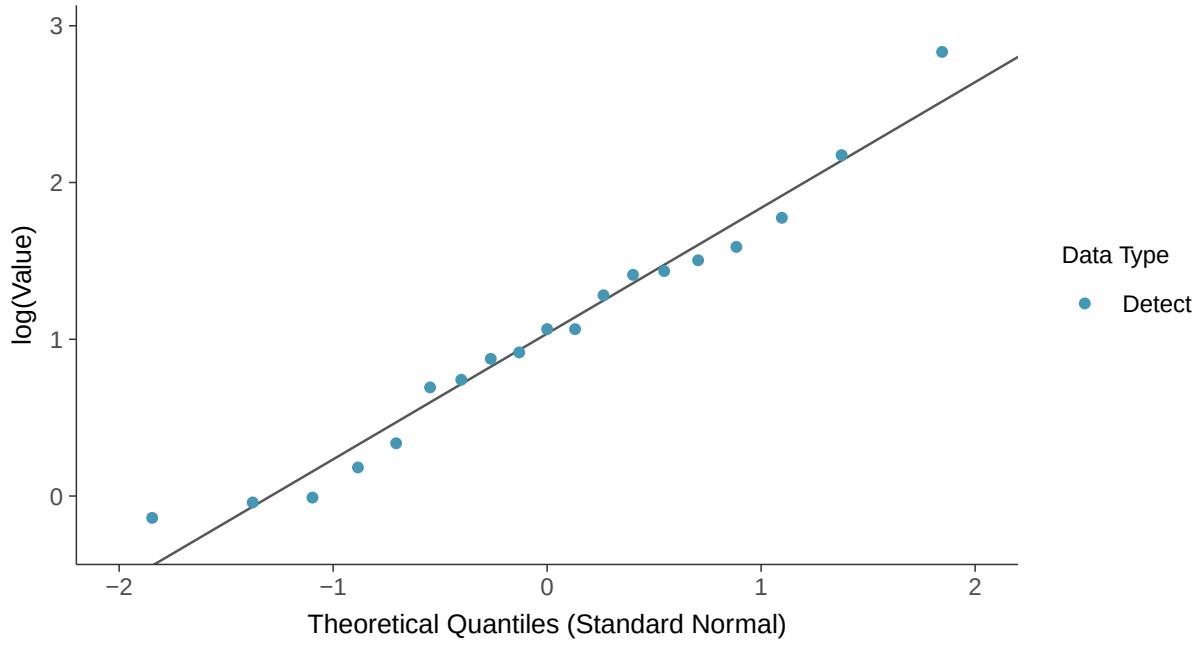
Boxplot by Season

Iron, MW-30 (mg/L)



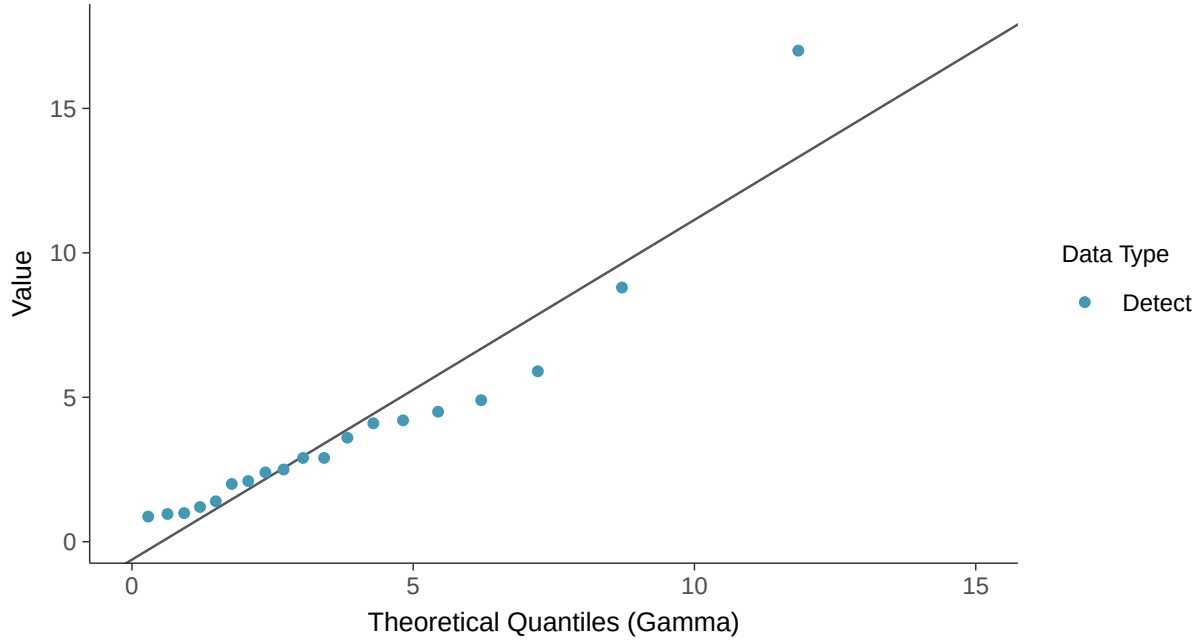
Lognormal Q-Q plot

Iron, MW-30 (mg/L)



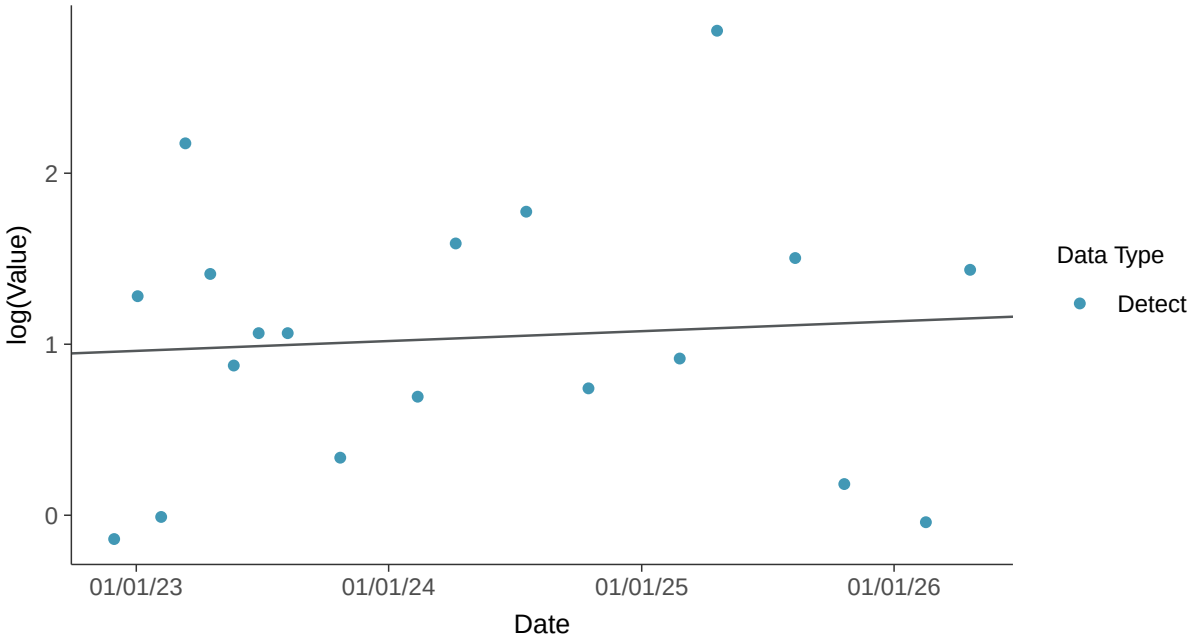
Gamma Q-Q plot

Iron, MW-30 (mg/L)



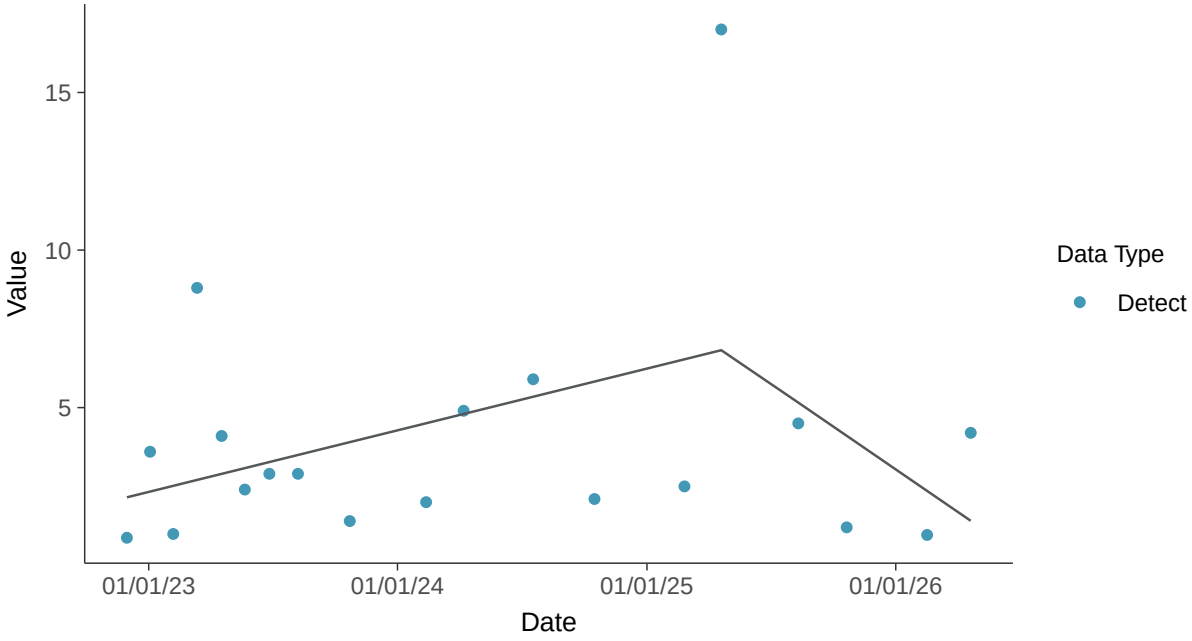
Trend Regression: Lognormal MLE

Iron, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear

Iron, MW-30 (mg/L)

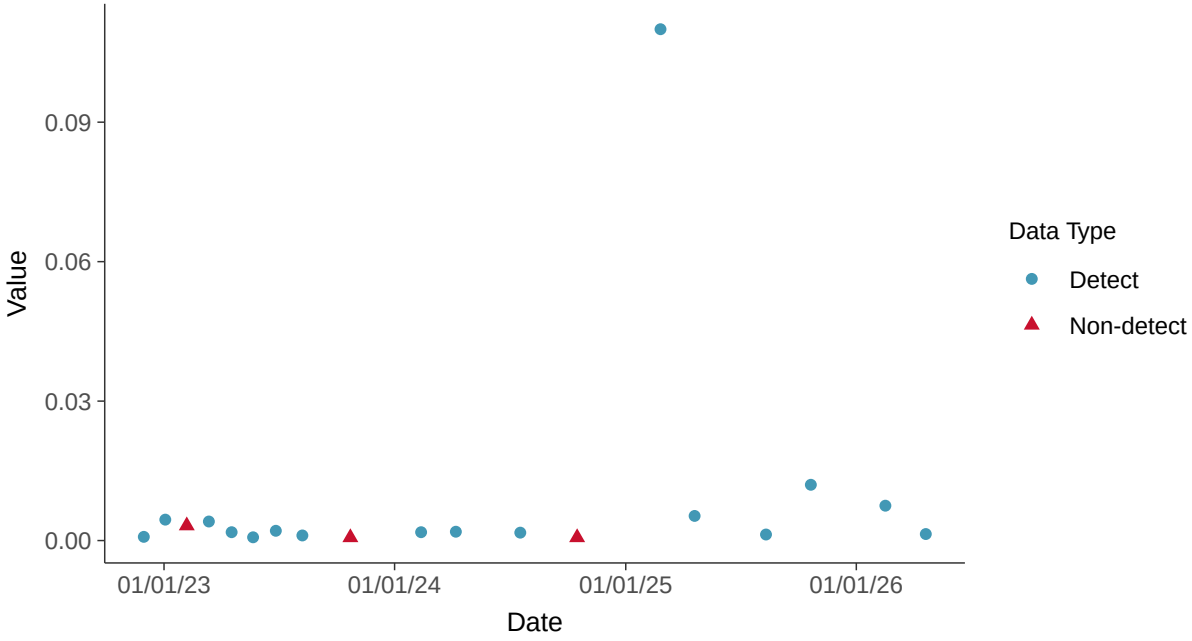


Part 115: Nickel, MW-30

ID: 40_1_5_119

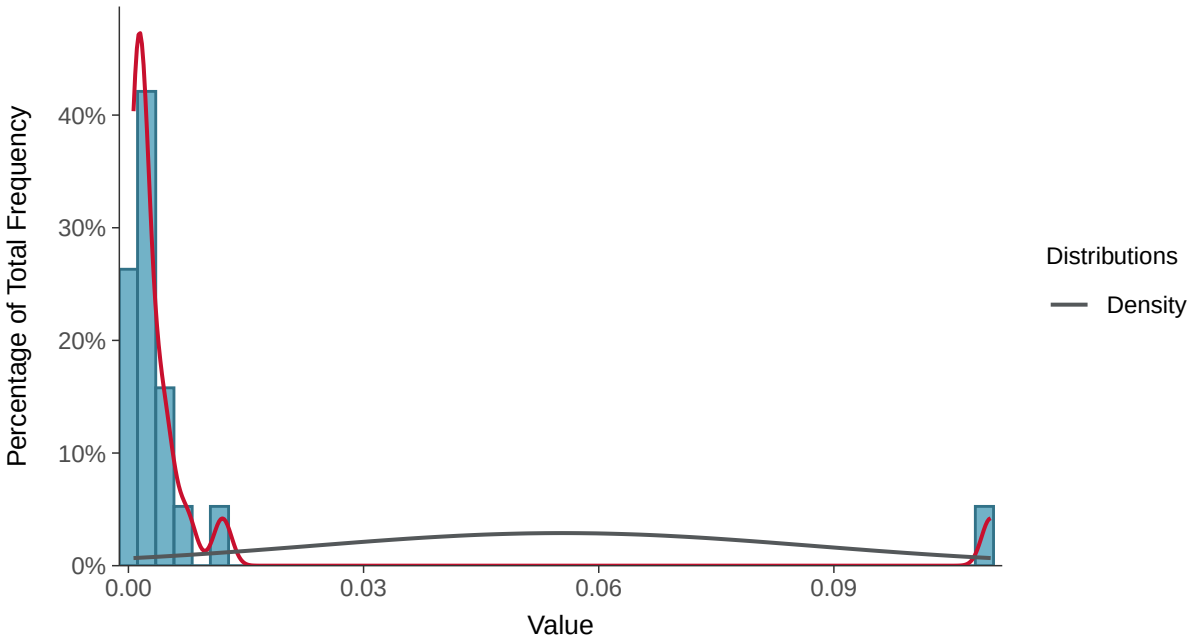
Scatter Plot

Nickel, MW-30 (mg/L)



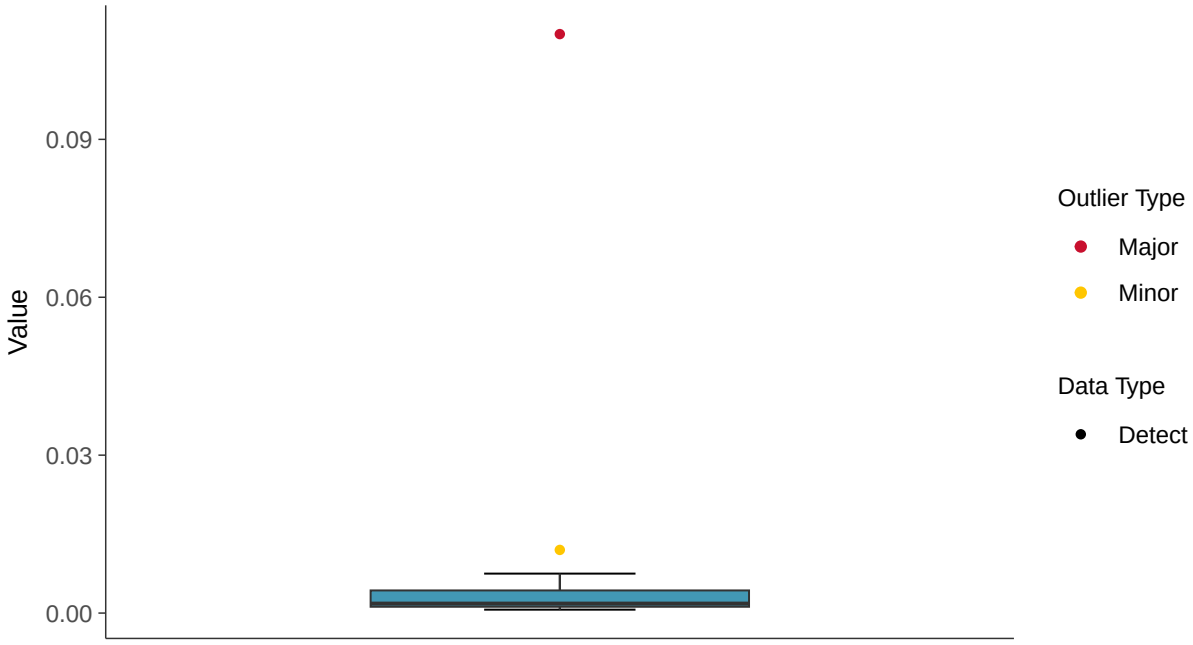
Histogram

Nickel, MW-30 (mg/L)



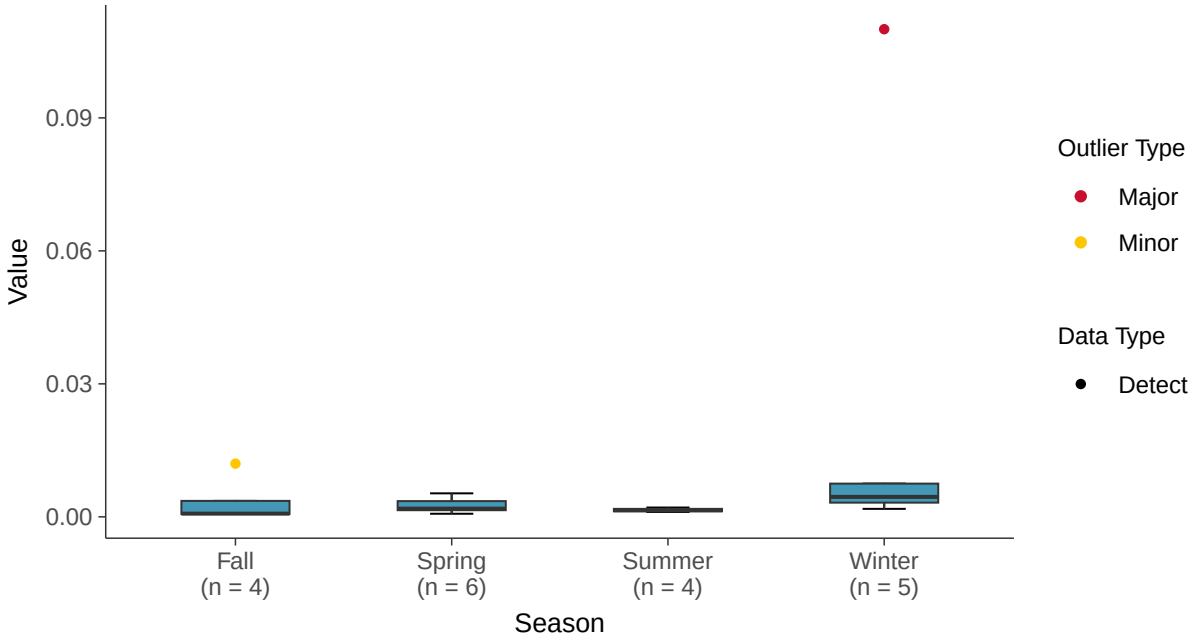
Boxplot

Nickel, MW-30 (mg/L)



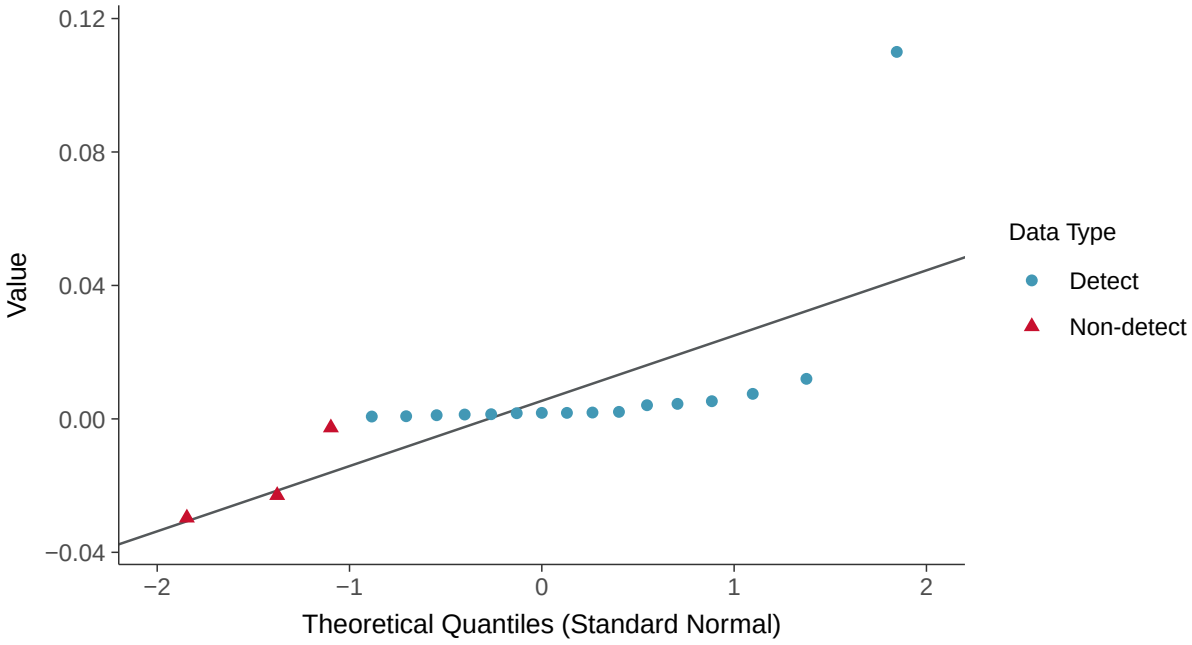
Boxplot by Season

Nickel, MW-30 (mg/L)



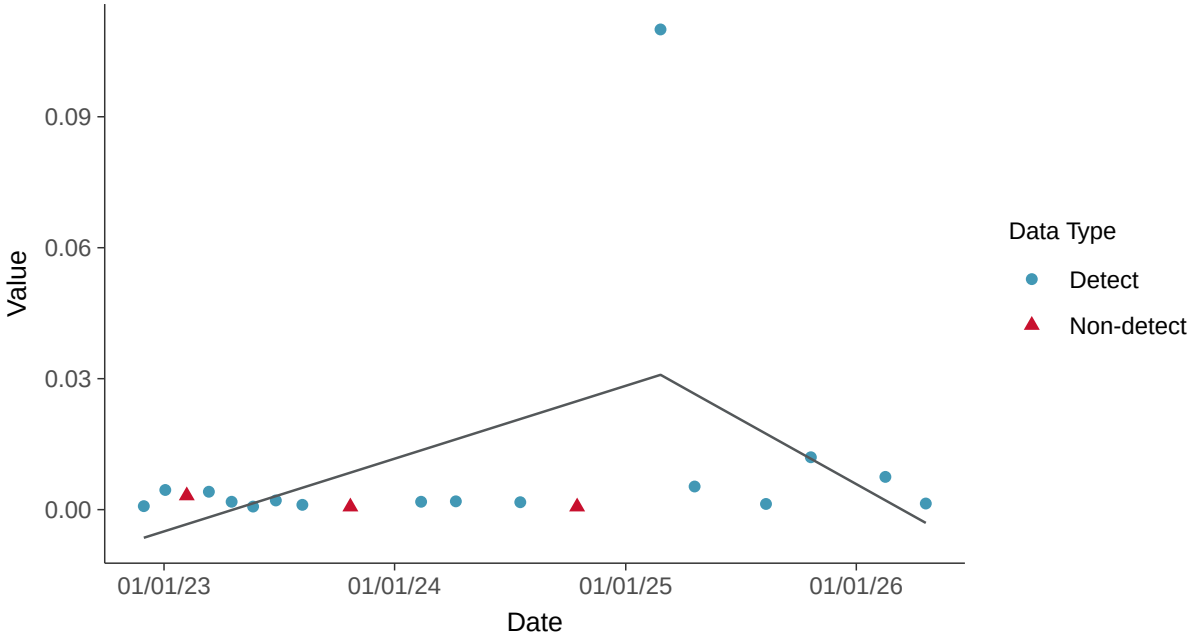
Normal Q-Q plot using ROS Imputed Estimates

Nickel, MW-30 (mg/L)



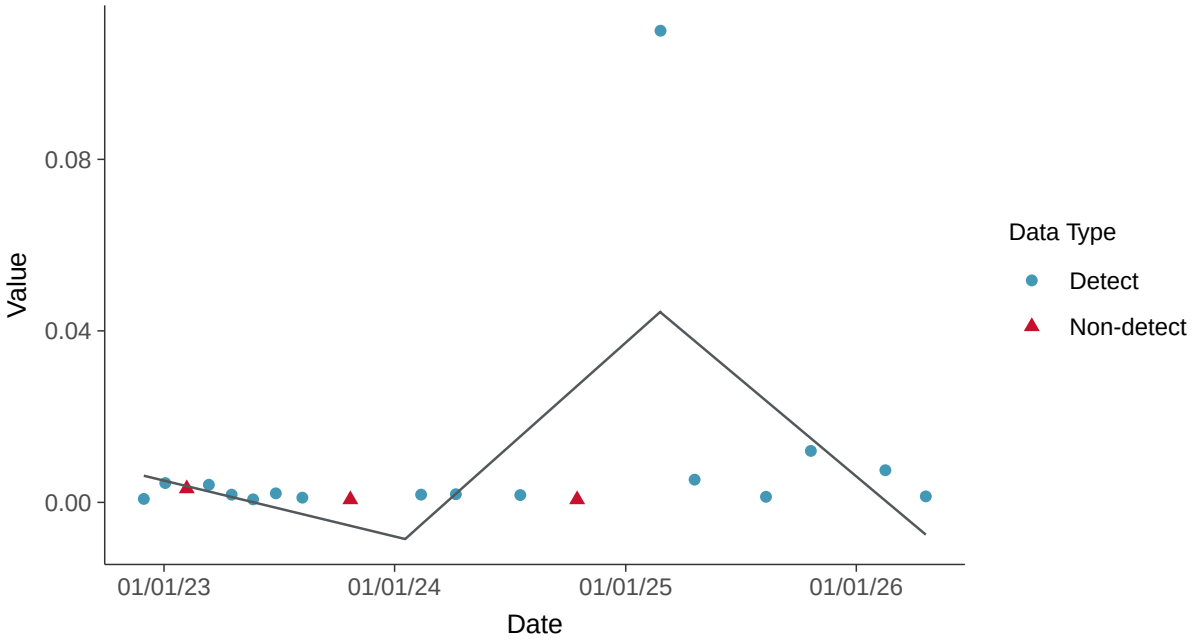
Trend Regression: Piecewise Linear-Linear

Nickel, MW-30 (mg/L)



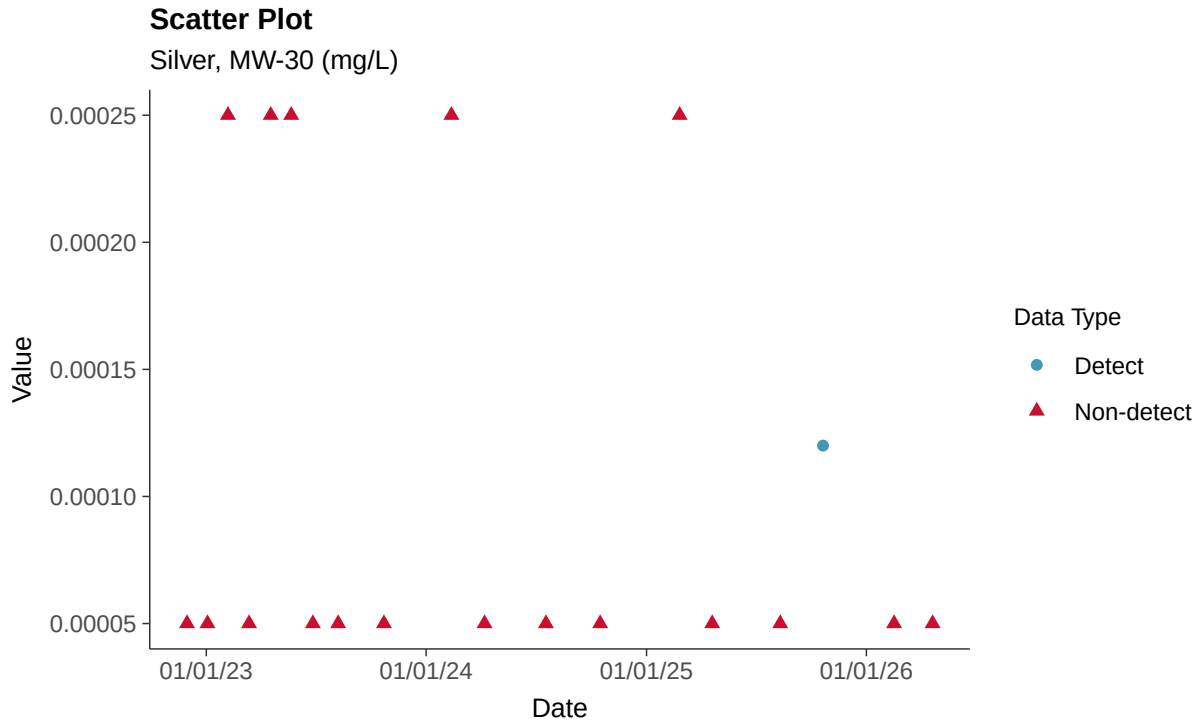
Trend Regression: Piecewise Linear-Linear-Linear

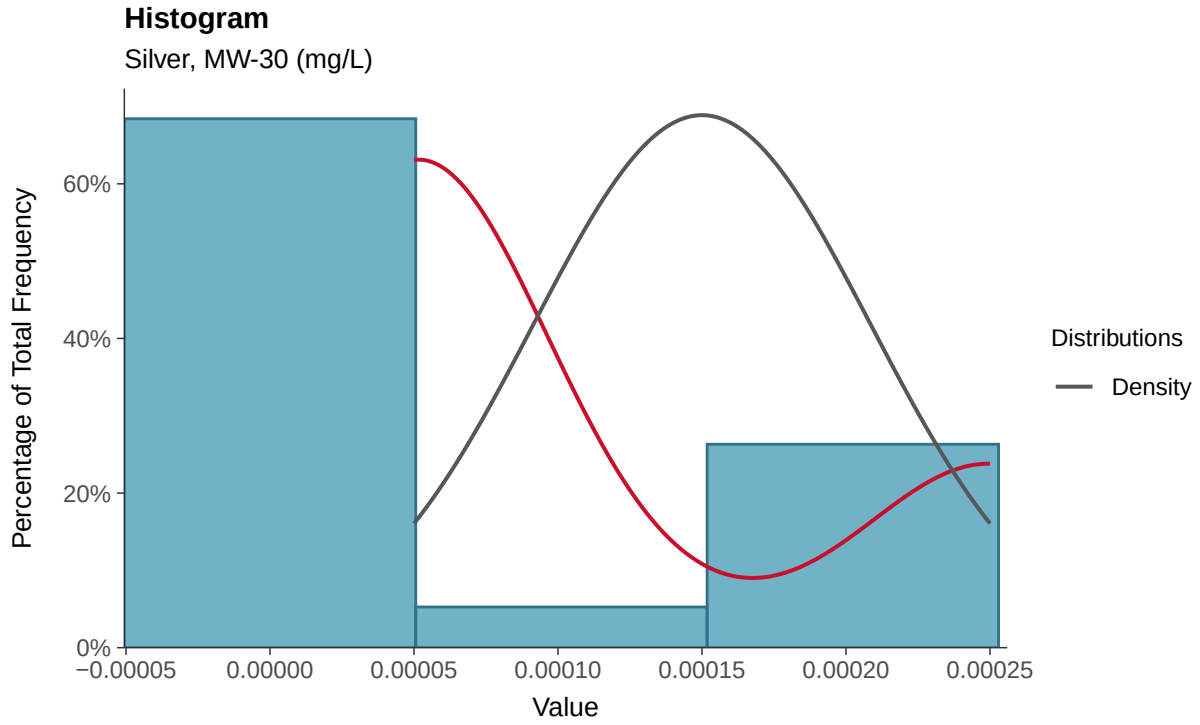
Nickel, MW-30 (mg/L)



Part 115: Silver, MW-30

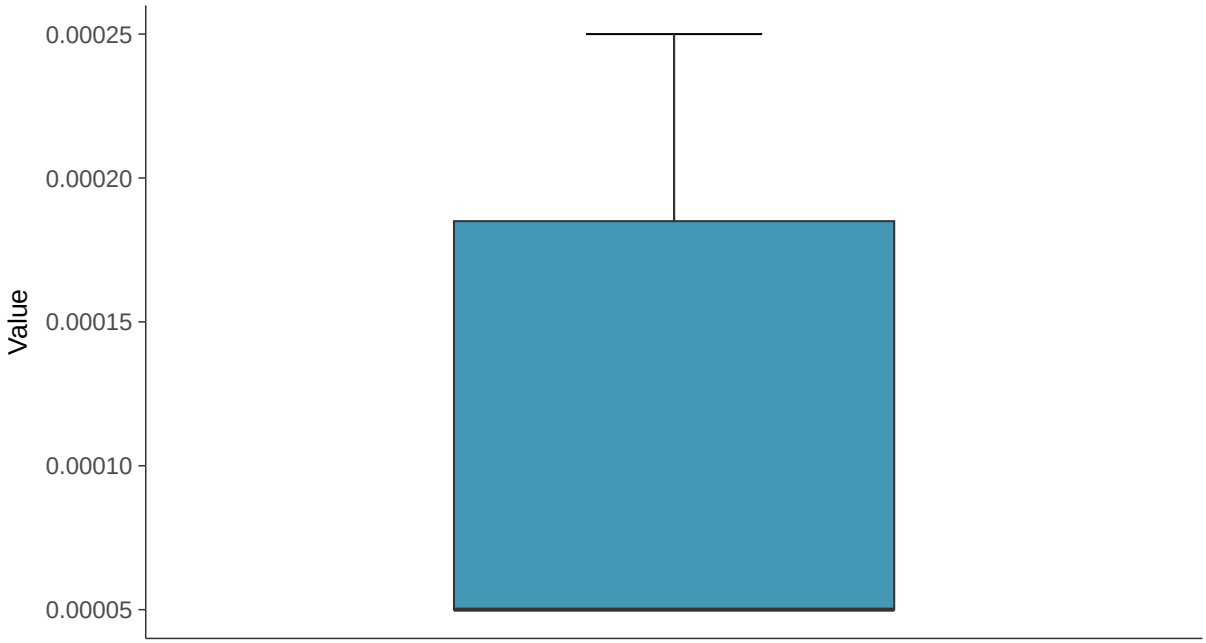
ID: 40_1_5_123





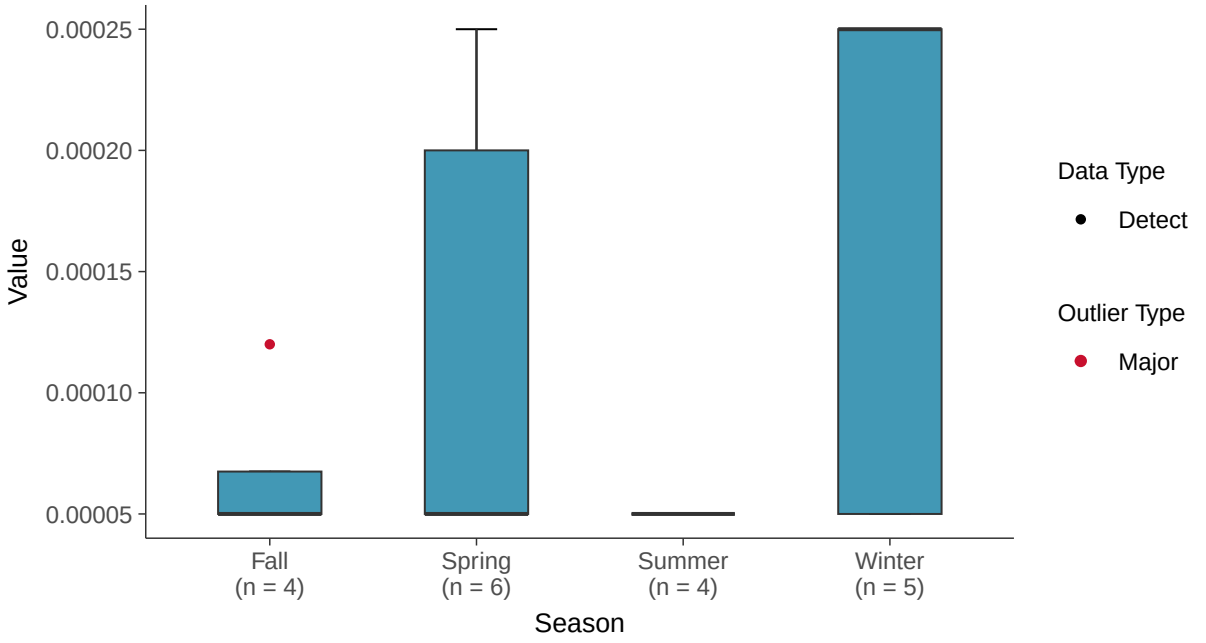
Boxplot

Silver, MW-30 (mg/L)



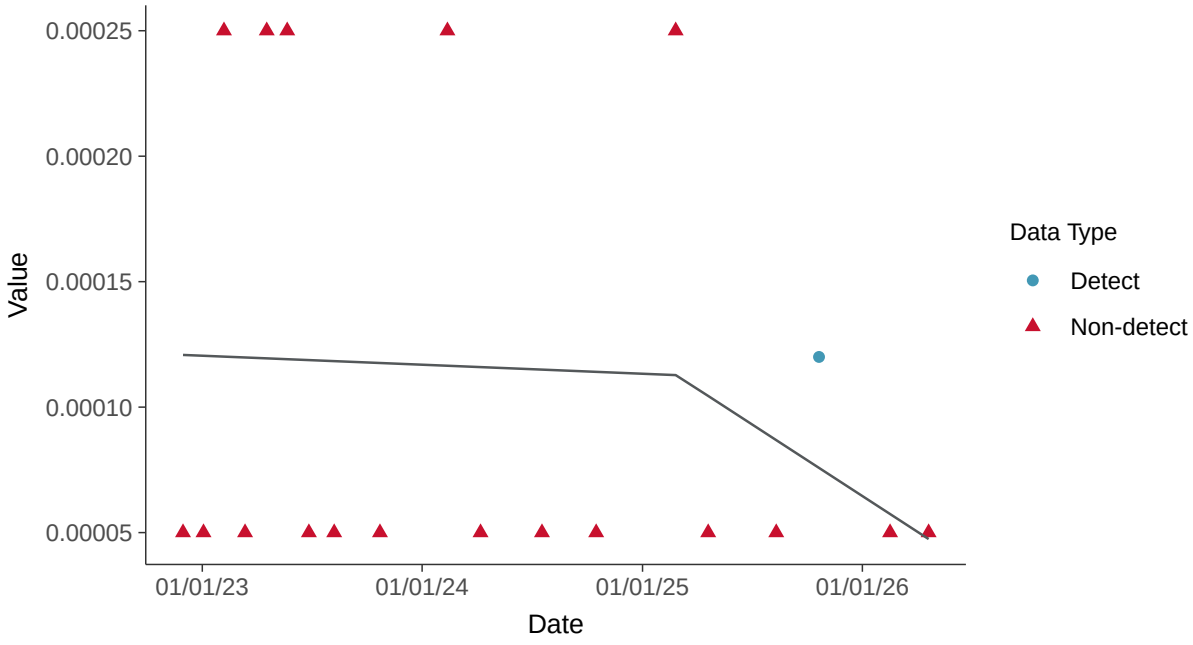
Boxplot by Season

Silver, MW-30 (mg/L)



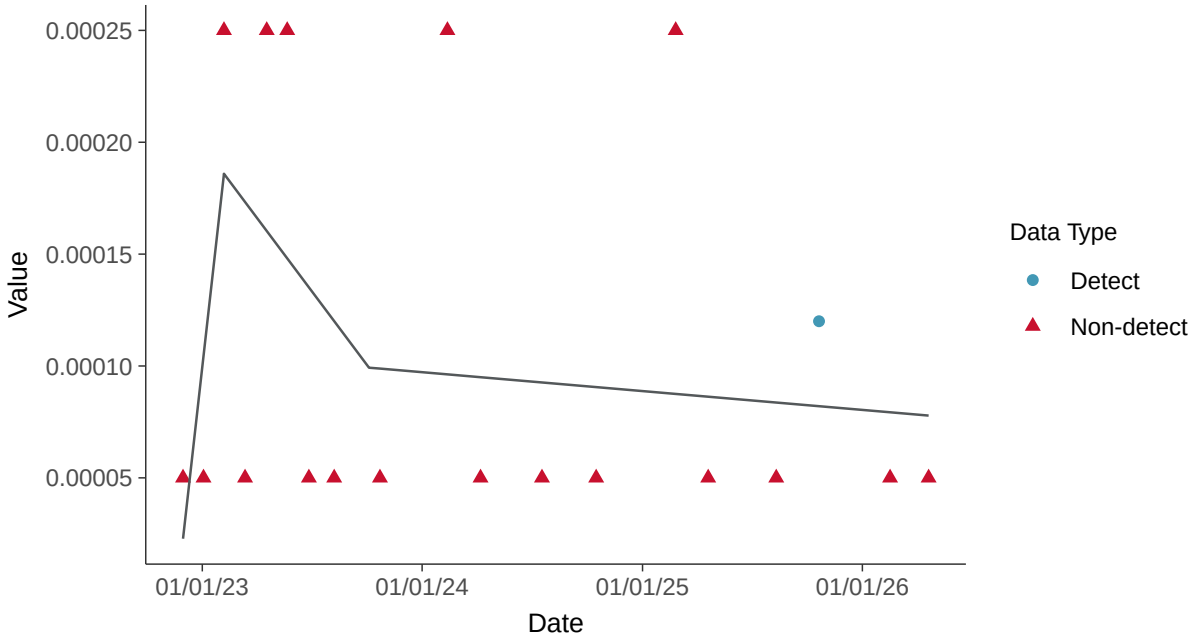
Trend Regression: Piecewise Linear-Linear

Silver, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-30 (mg/L)

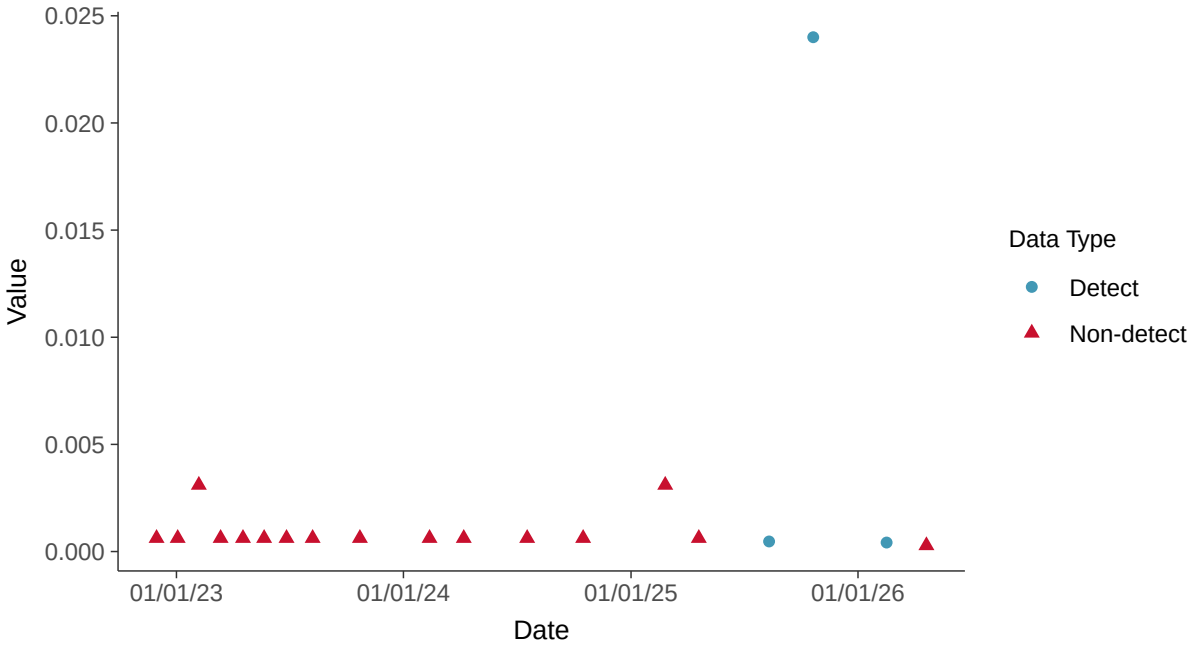


Part 115: Vanadium, MW-30

ID: 40_1_5_128

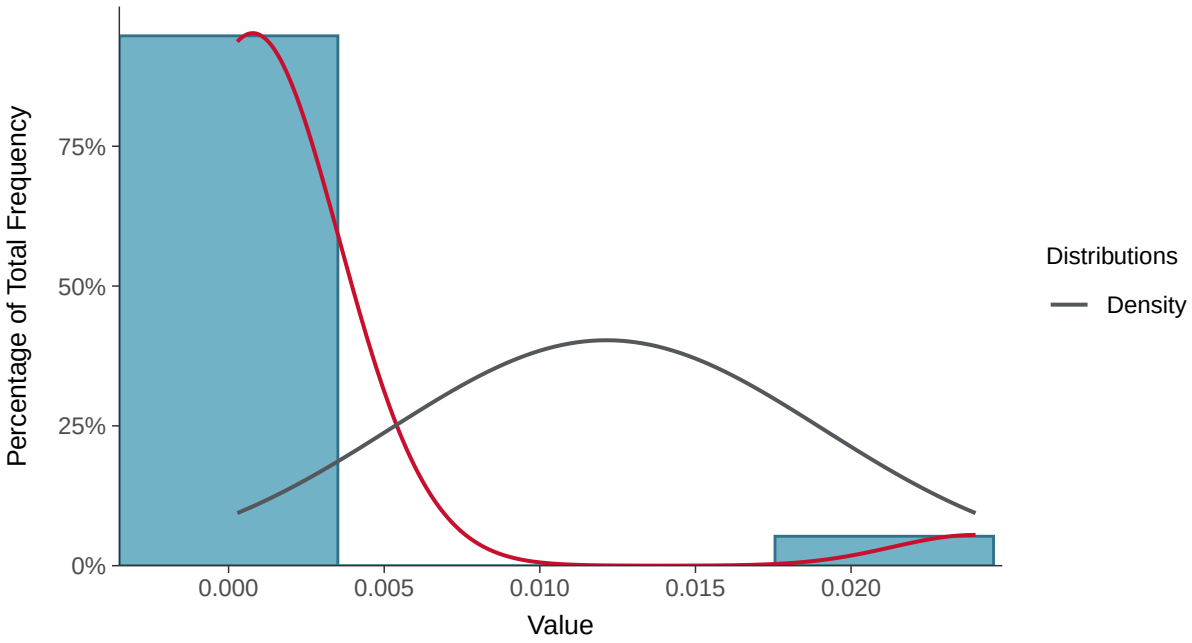
Scatter Plot

Vanadium, MW-30 (mg/L)



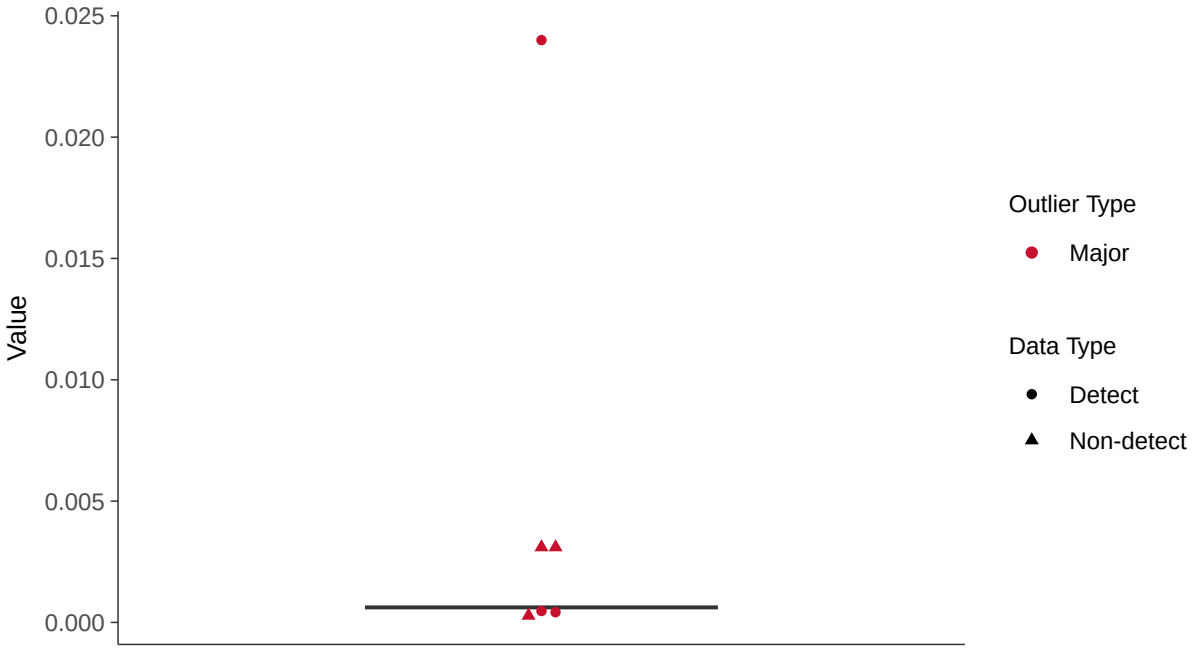
Histogram

Vanadium, MW-30 (mg/L)



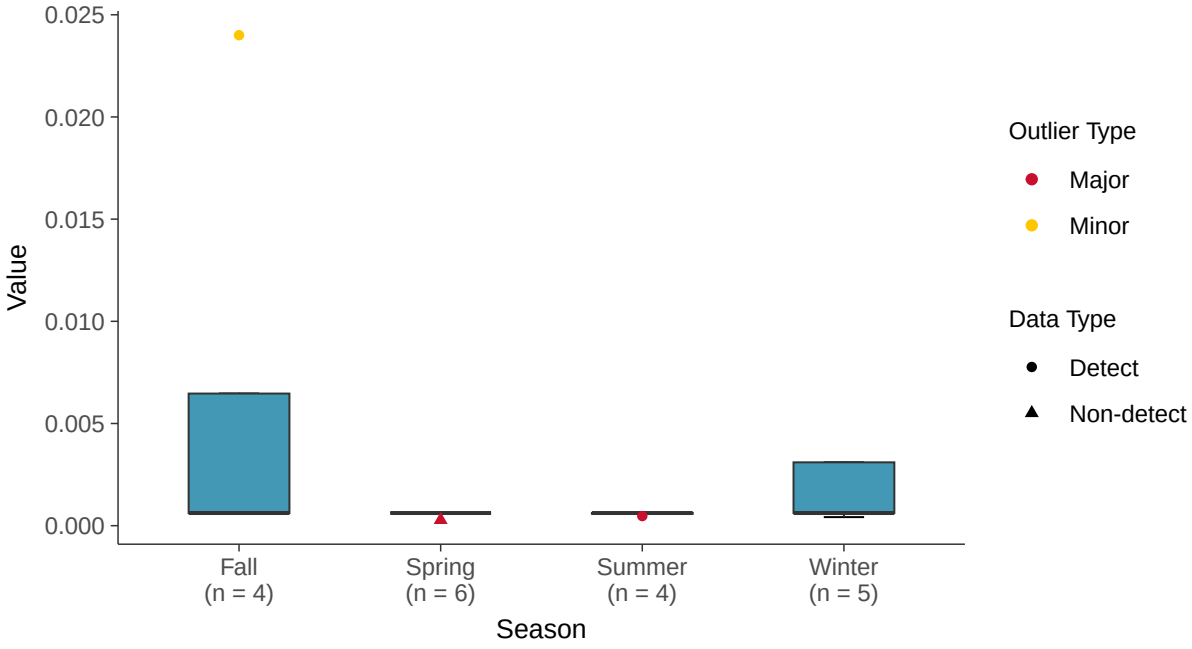
Boxplot

Vanadium, MW-30 (mg/L)



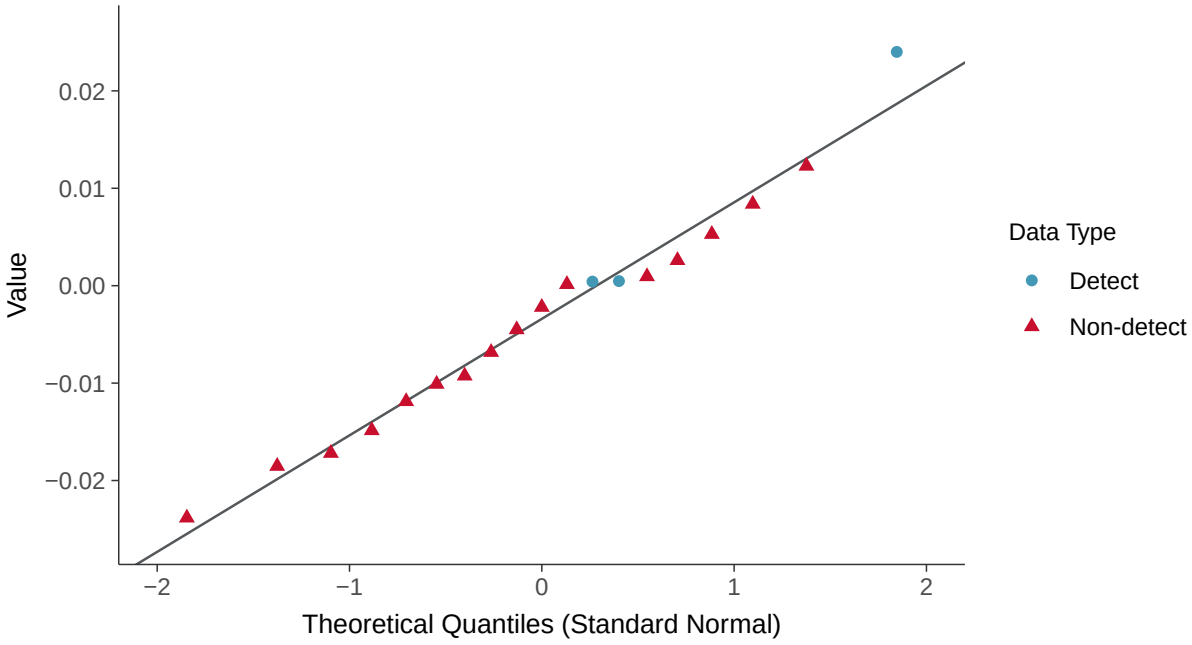
Boxplot by Season

Vanadium, MW-30 (mg/L)



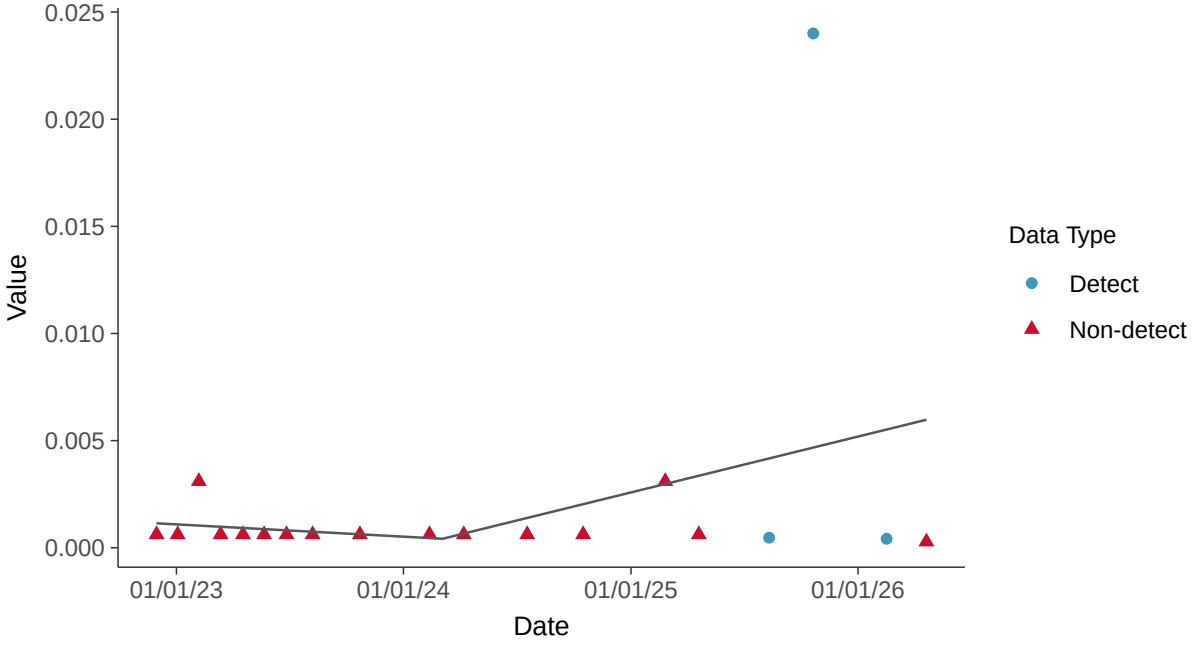
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-30 (mg/L)



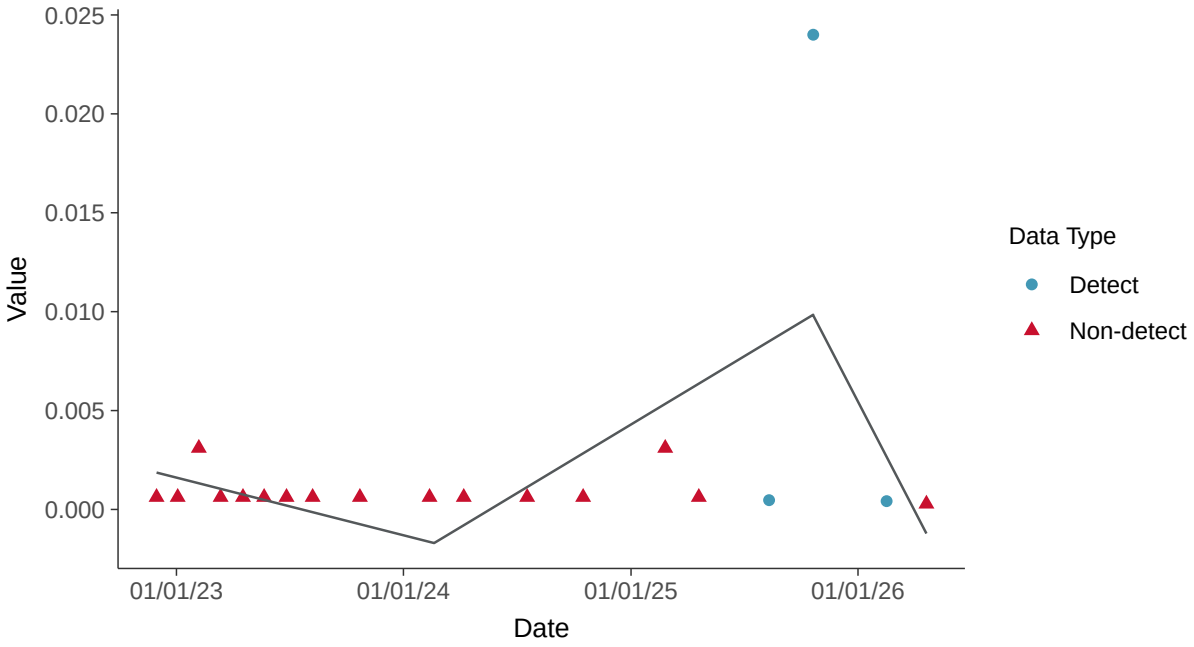
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-30 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-30 (mg/L)

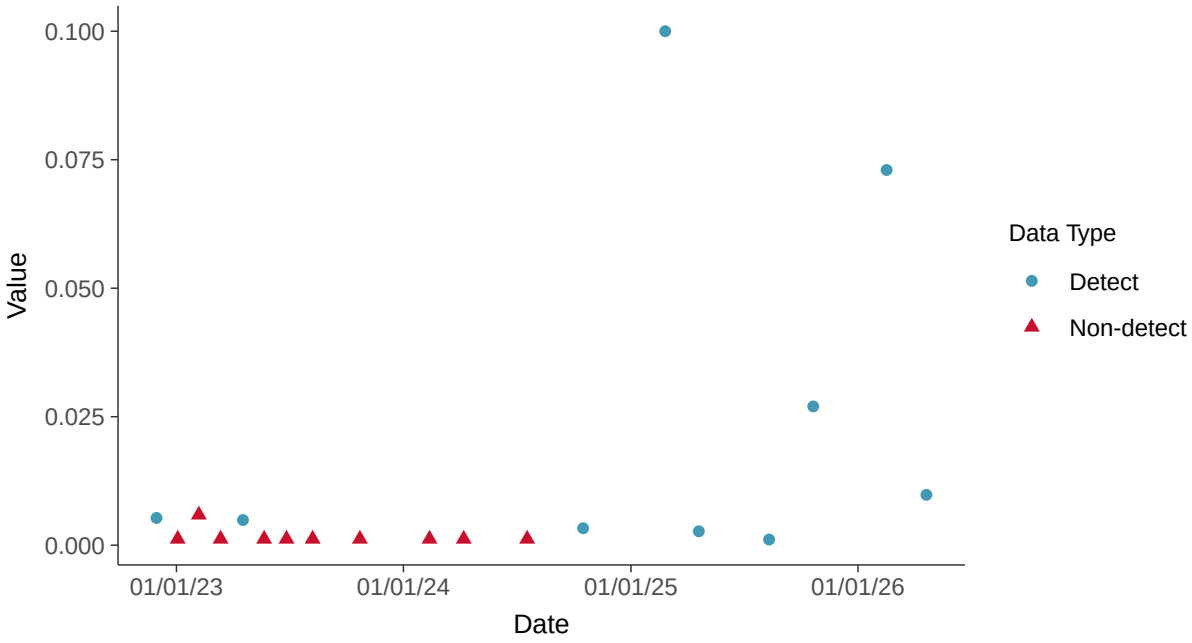


Part 115: Zinc, MW-30

ID: 40_1_5_129

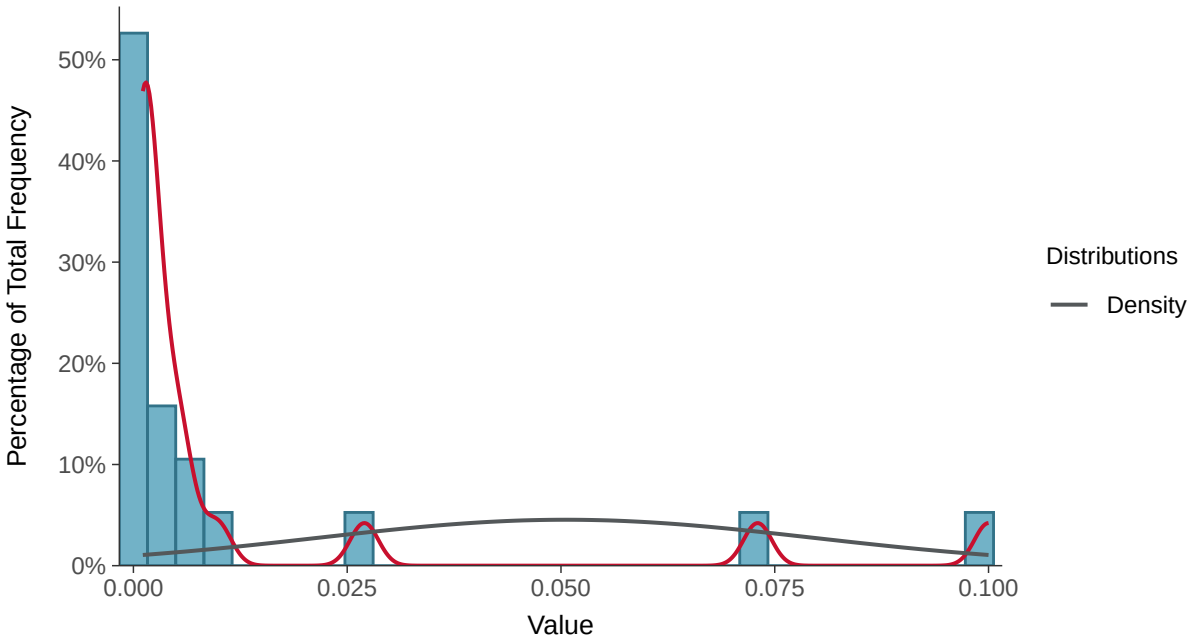
Scatter Plot

Zinc, MW-30 (mg/L)



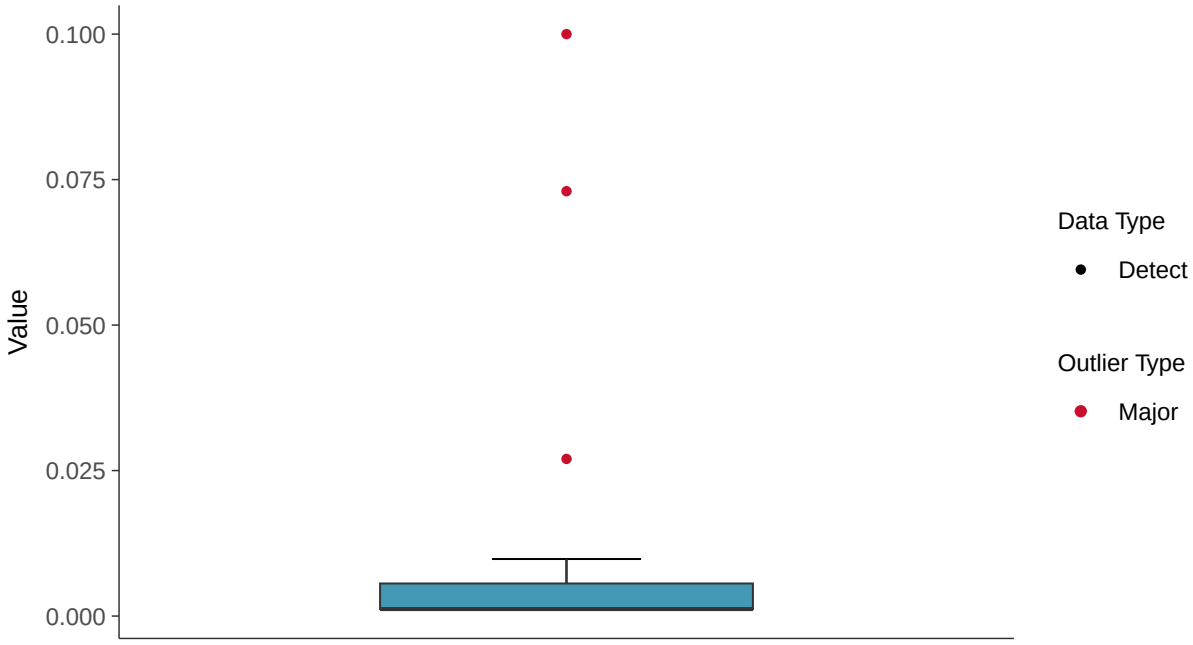
Histogram

Zinc, MW-30 (mg/L)



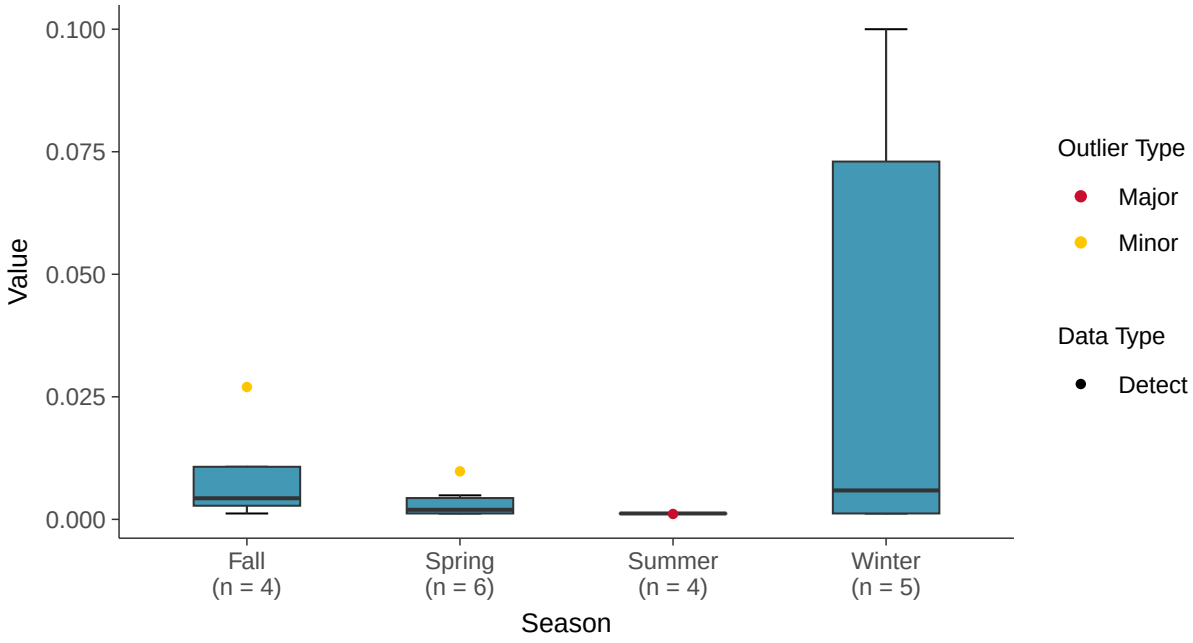
Boxplot

Zinc, MW-30 (mg/L)



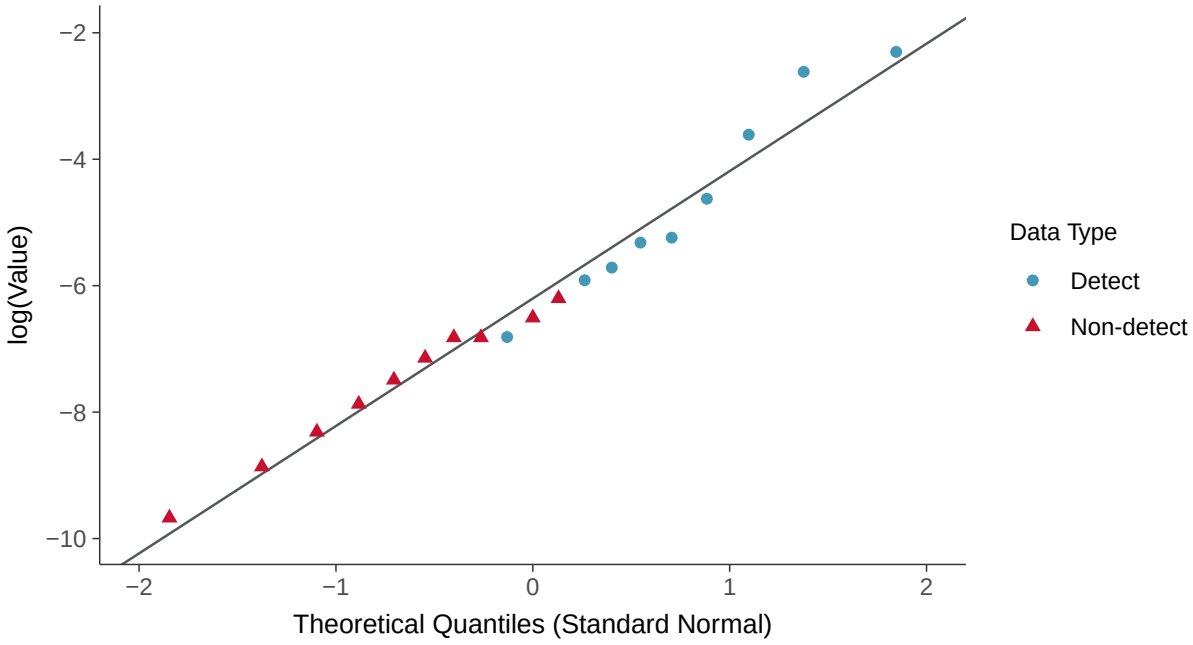
Boxplot by Season

Zinc, MW-30 (mg/L)



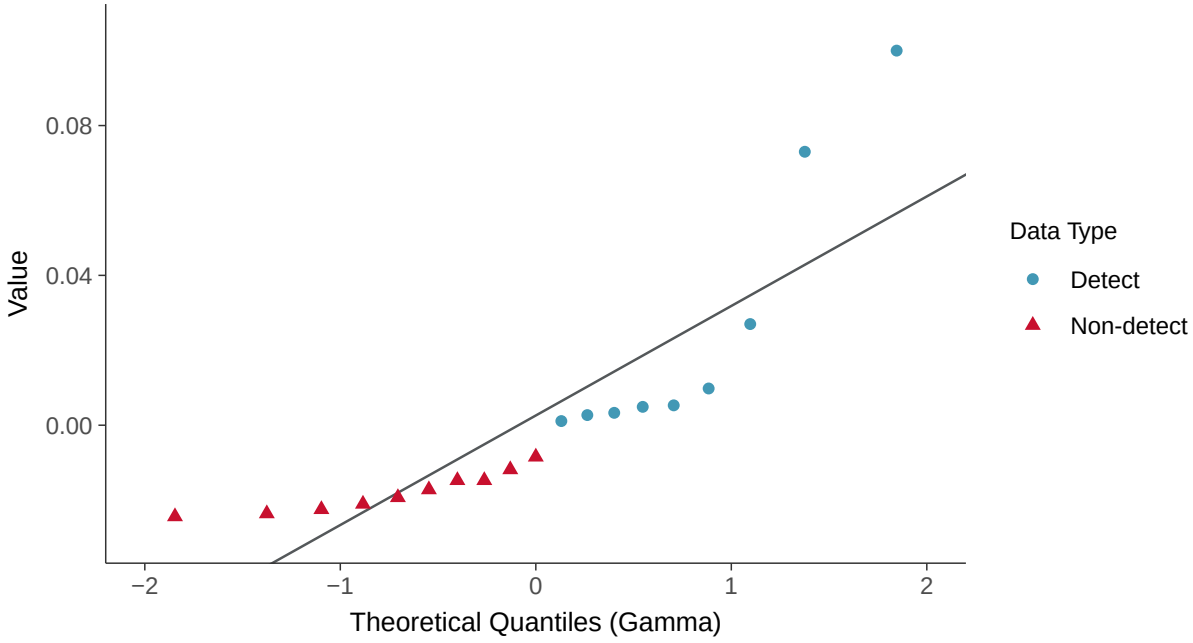
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-30 (mg/L)



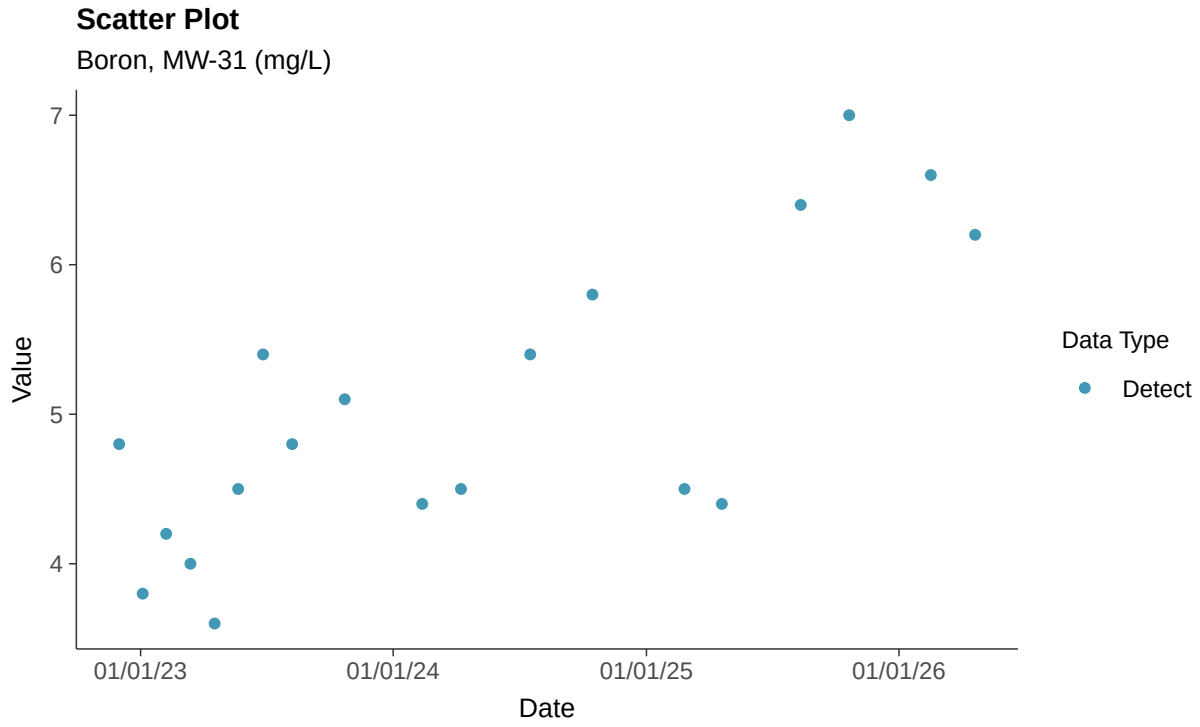
Gamma Q-Q plot using ROS Imputed Estimates

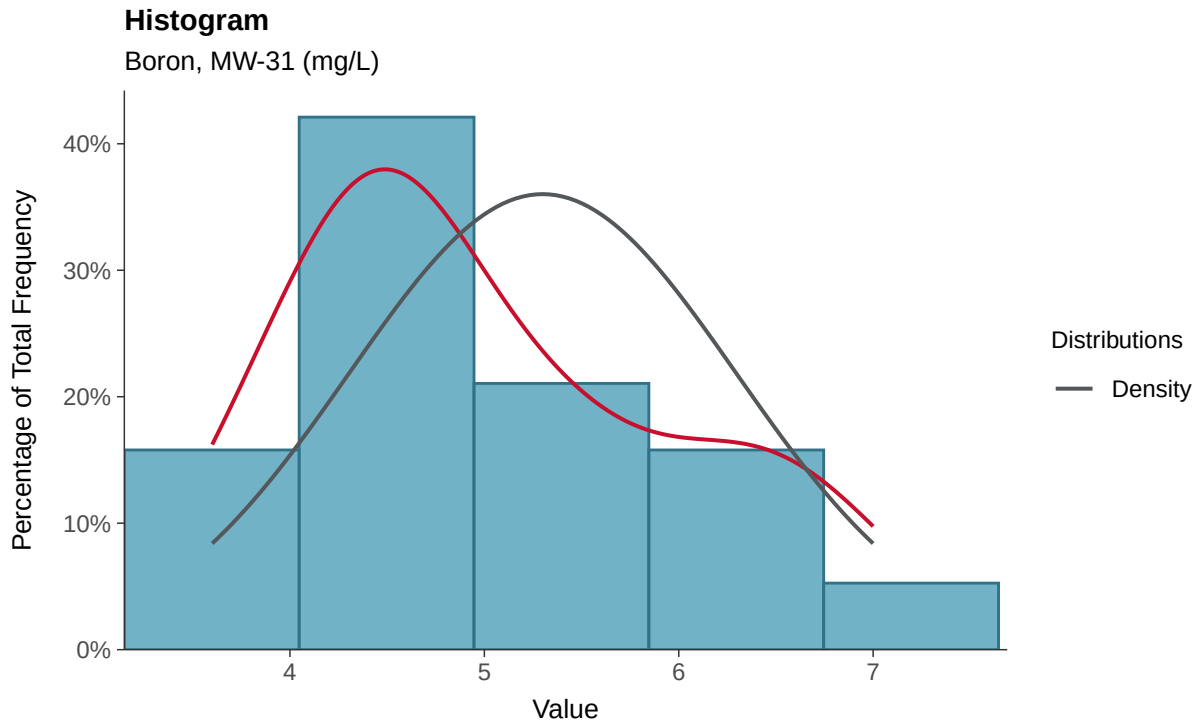
Zinc, MW-30 (mg/L)



Appendix III: Boron, MW-31

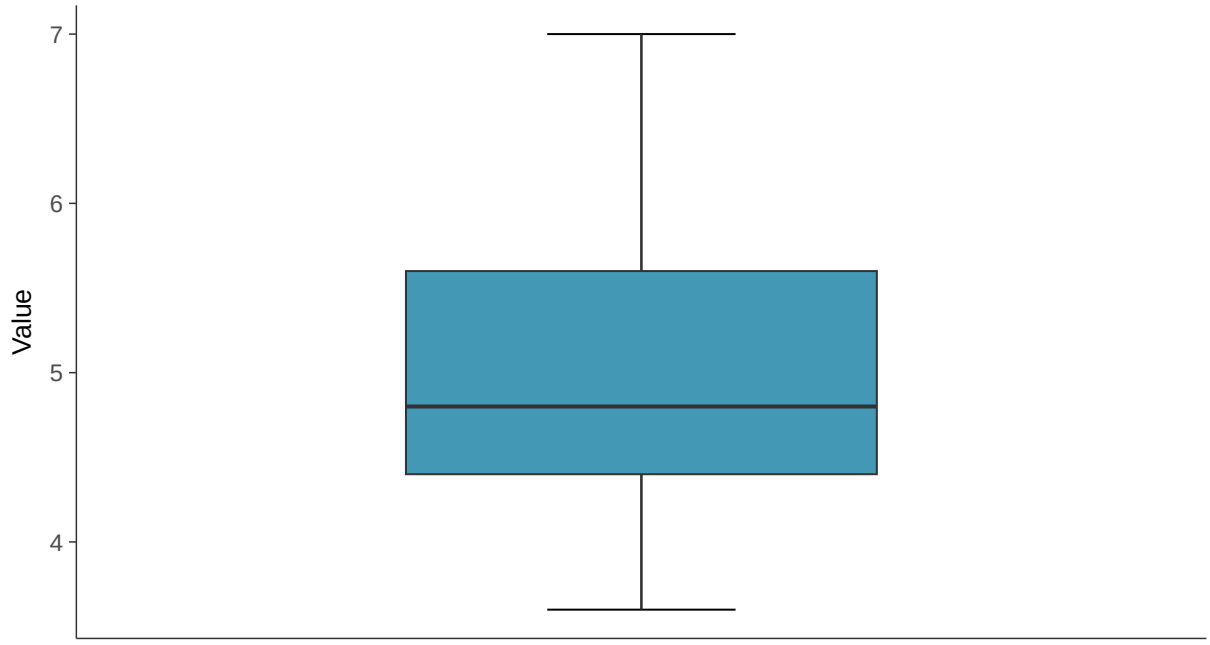
ID: 41_1_3_105





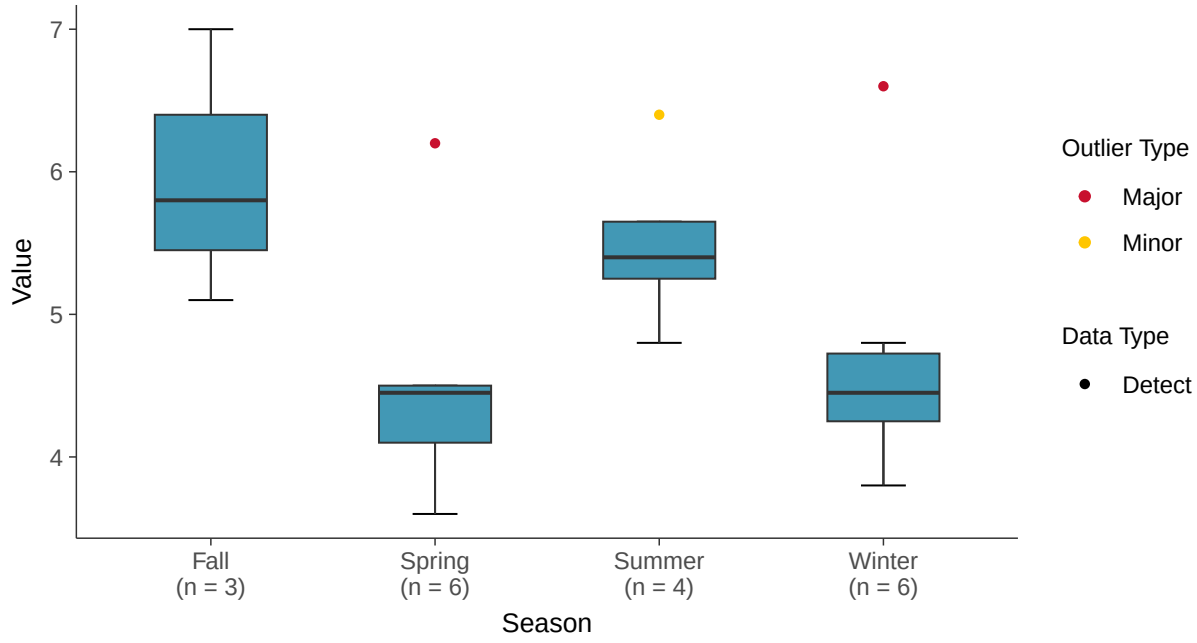
Boxplot

Boron, MW-31 (mg/L)



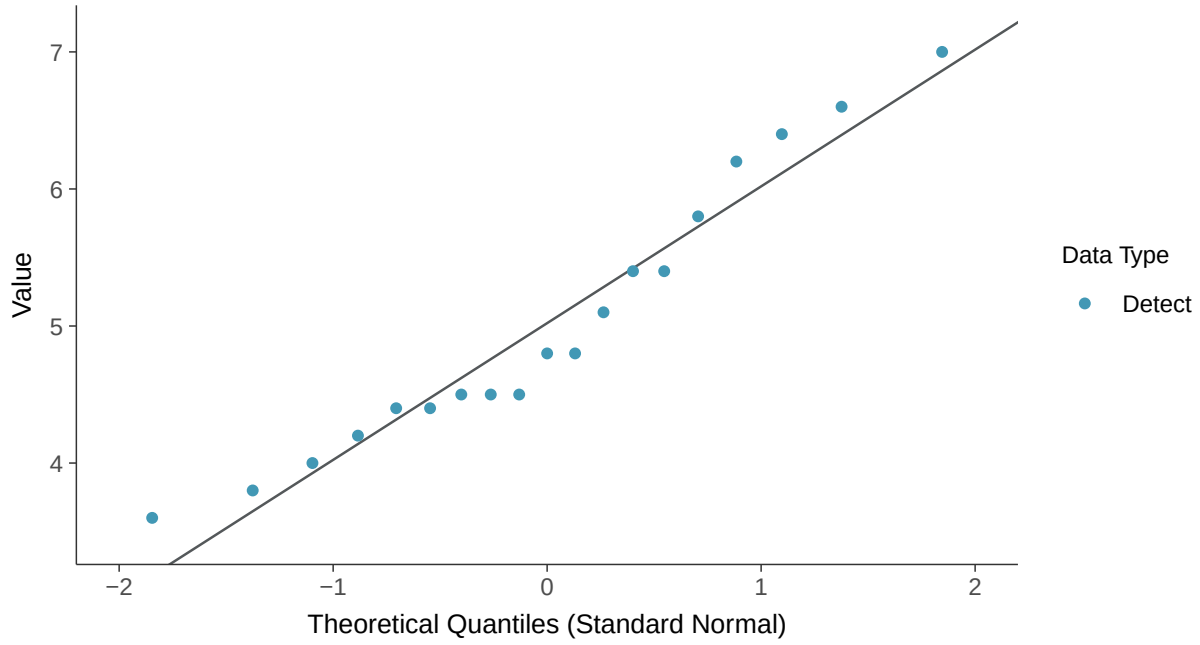
Boxplot by Season

Boron, MW-31 (mg/L)



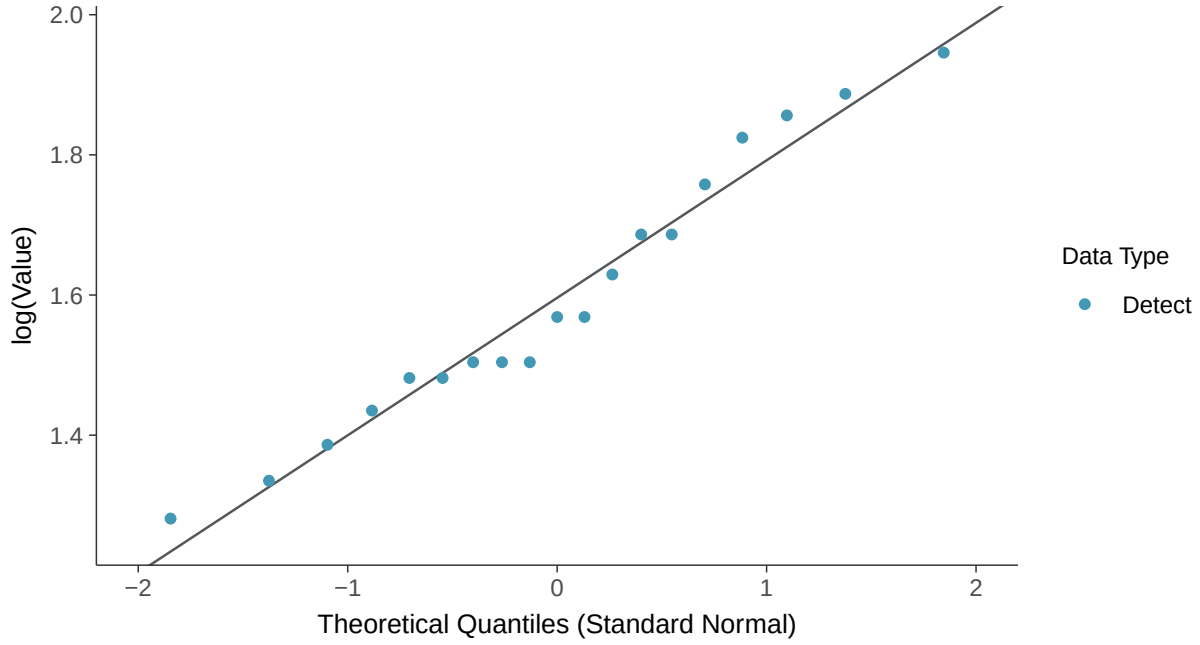
Normal Q-Q plot

Boron, MW-31 (mg/L)



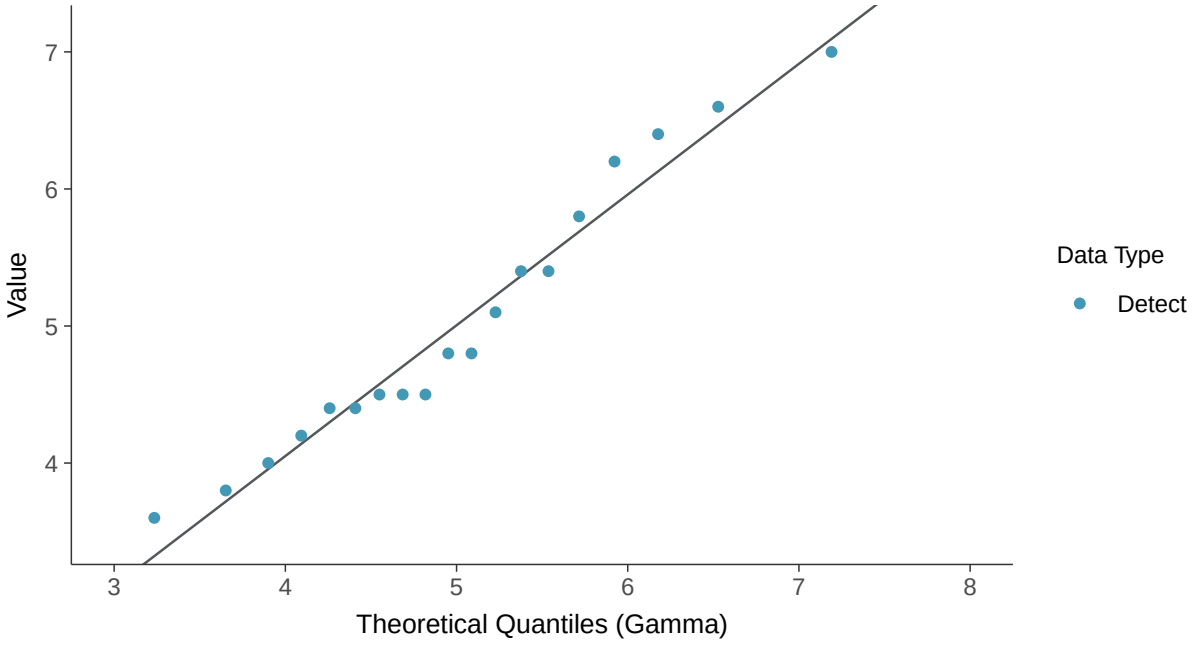
Lognormal Q-Q plot

Boron, MW-31 (mg/L)



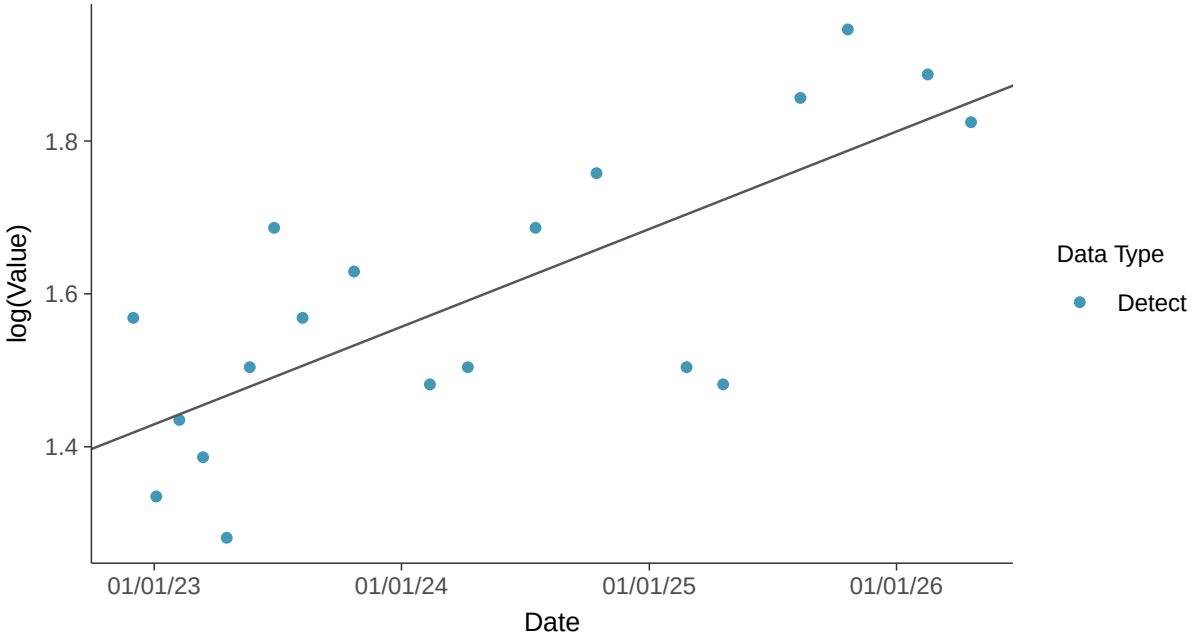
Gamma Q-Q plot

Boron, MW-31 (mg/L)



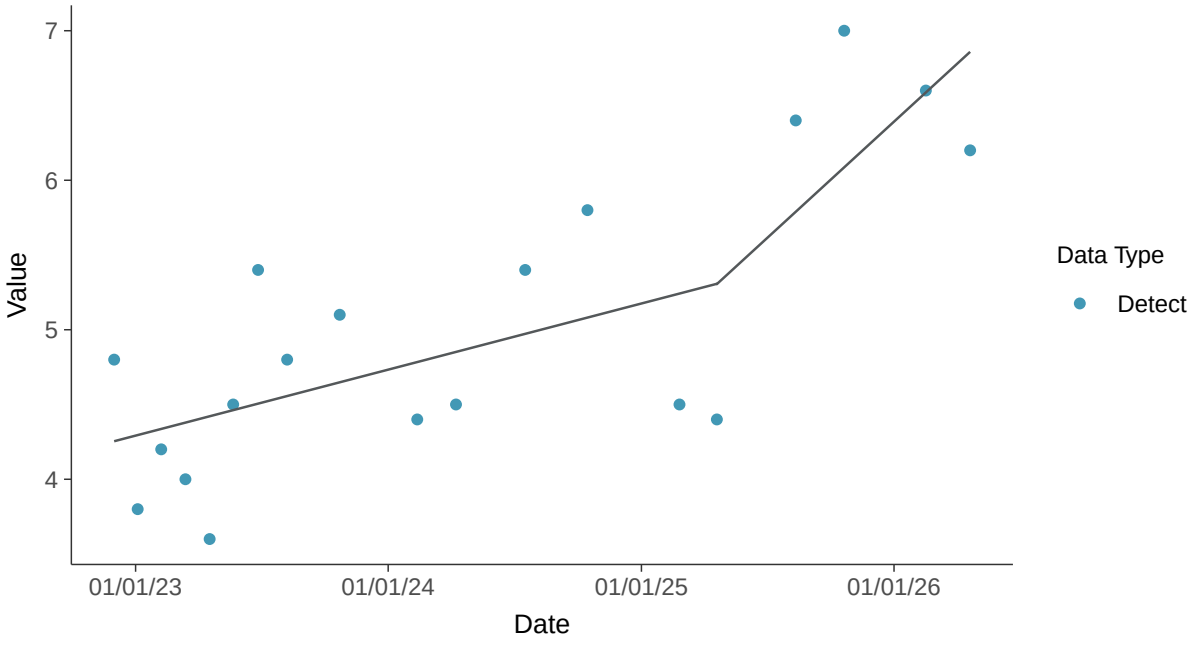
Trend Regression: Lognormal MLE

Boron, MW-31 (mg/L)



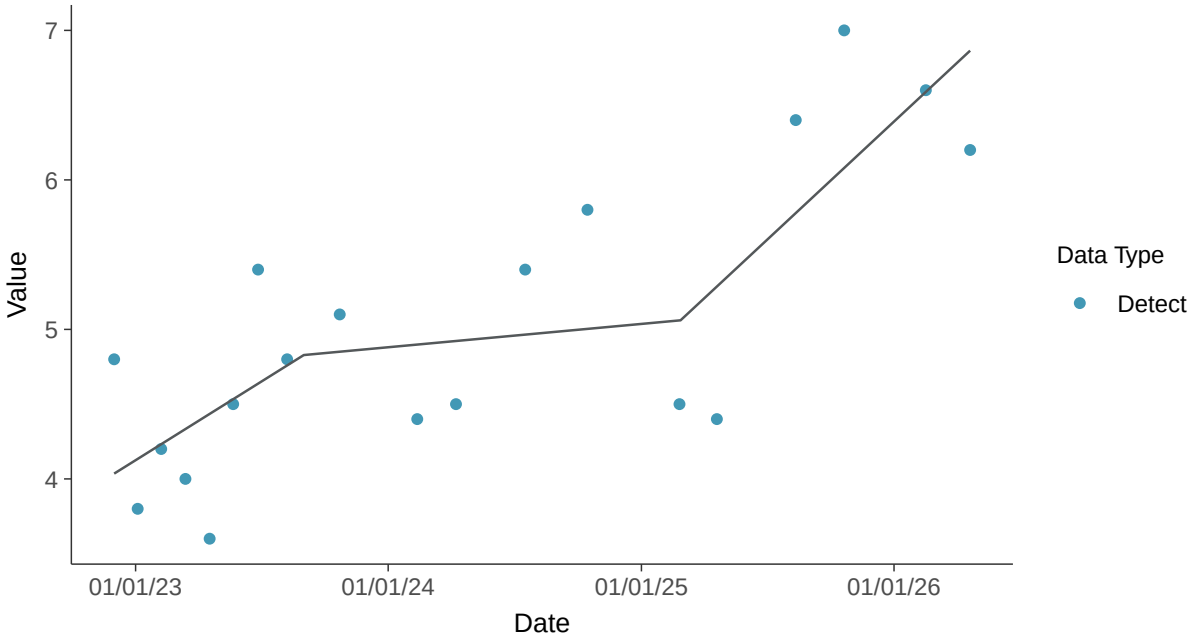
Trend Regression: Piecewise Linear-Linear

Boron, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-31 (mg/L)

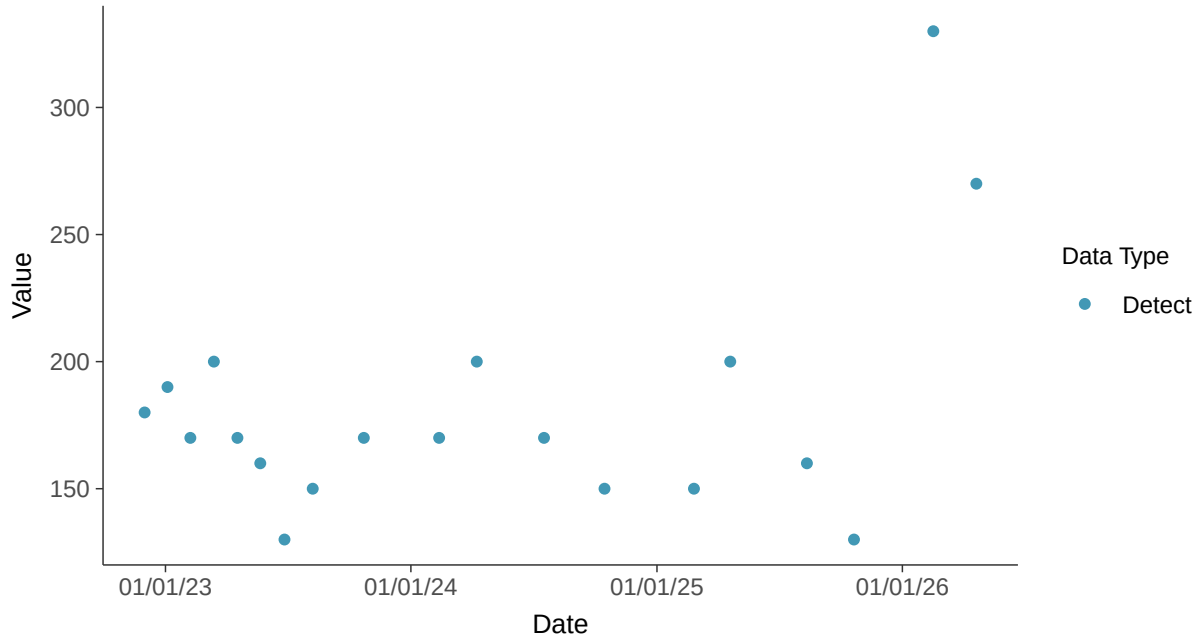


Appendix III: Calcium, MW-31

ID: 41_1_3_107

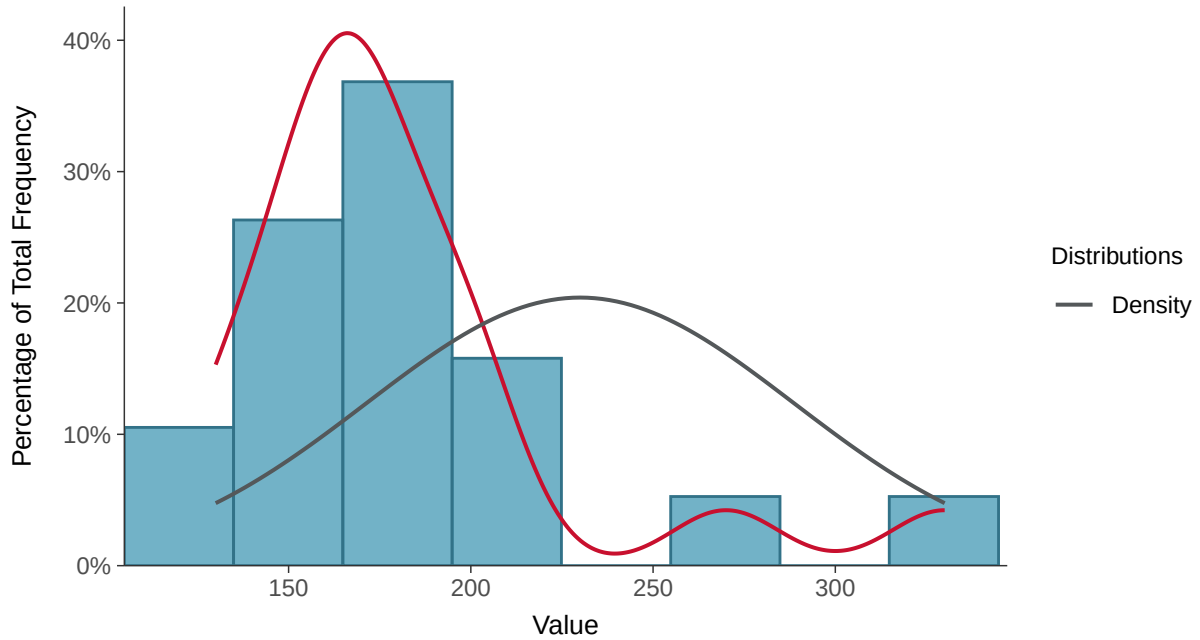
Scatter Plot

Calcium, MW-31 (mg/L)



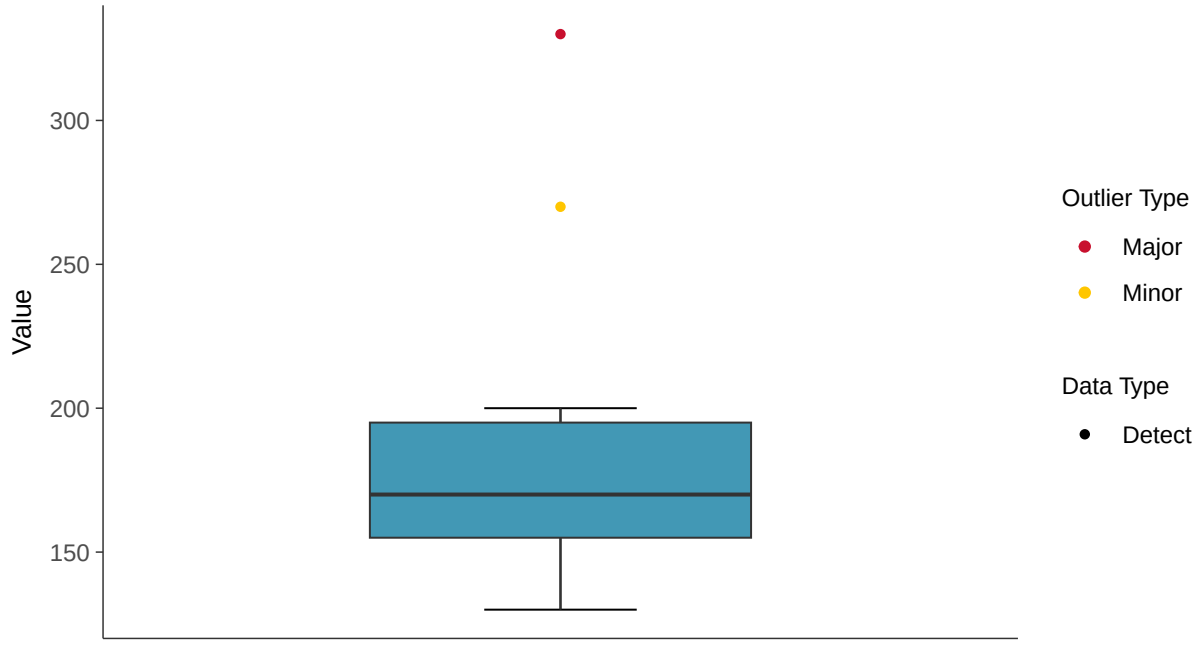
Histogram

Calcium, MW-31 (mg/L)



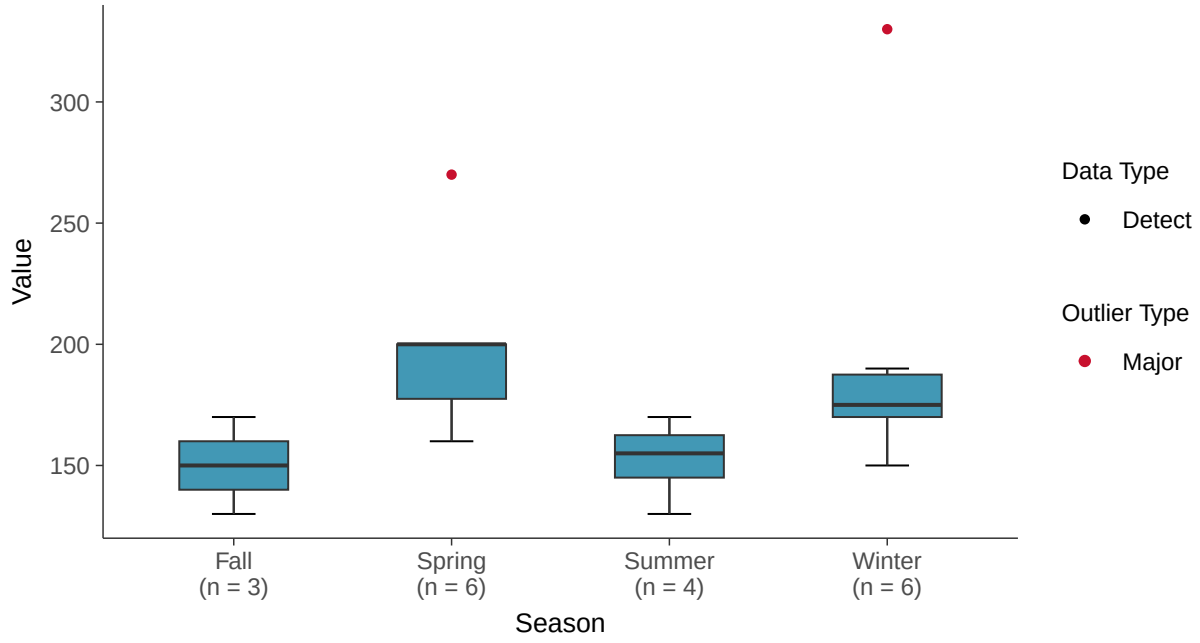
Boxplot

Calcium, MW-31 (mg/L)



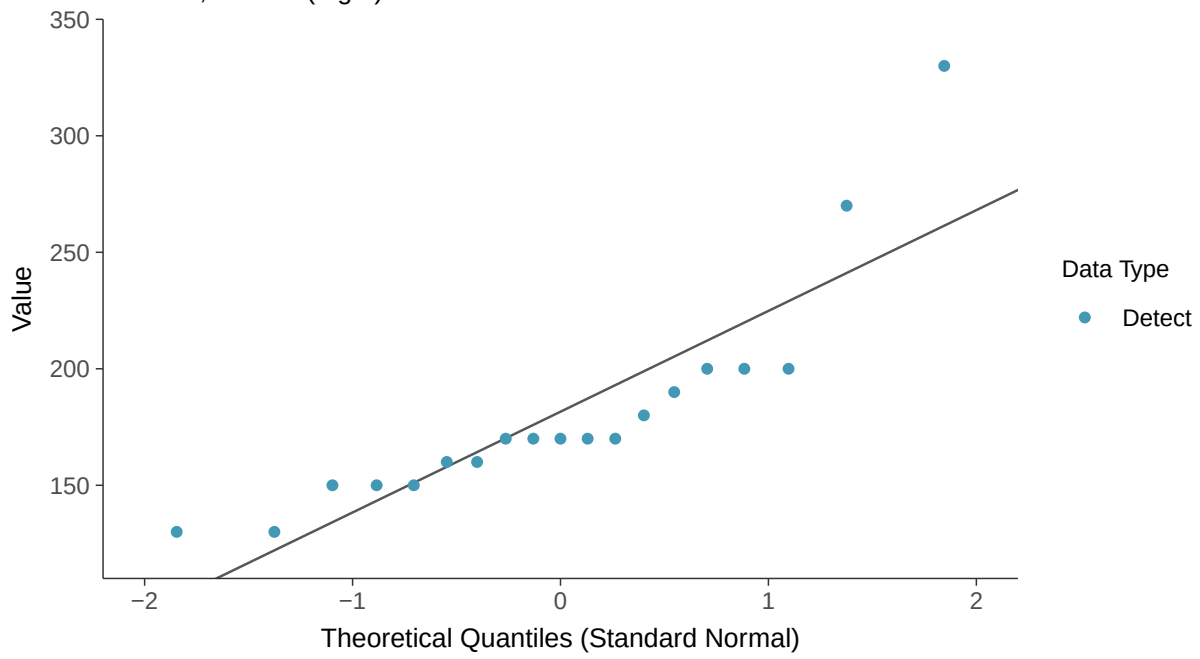
Boxplot by Season

Calcium, MW-31 (mg/L)



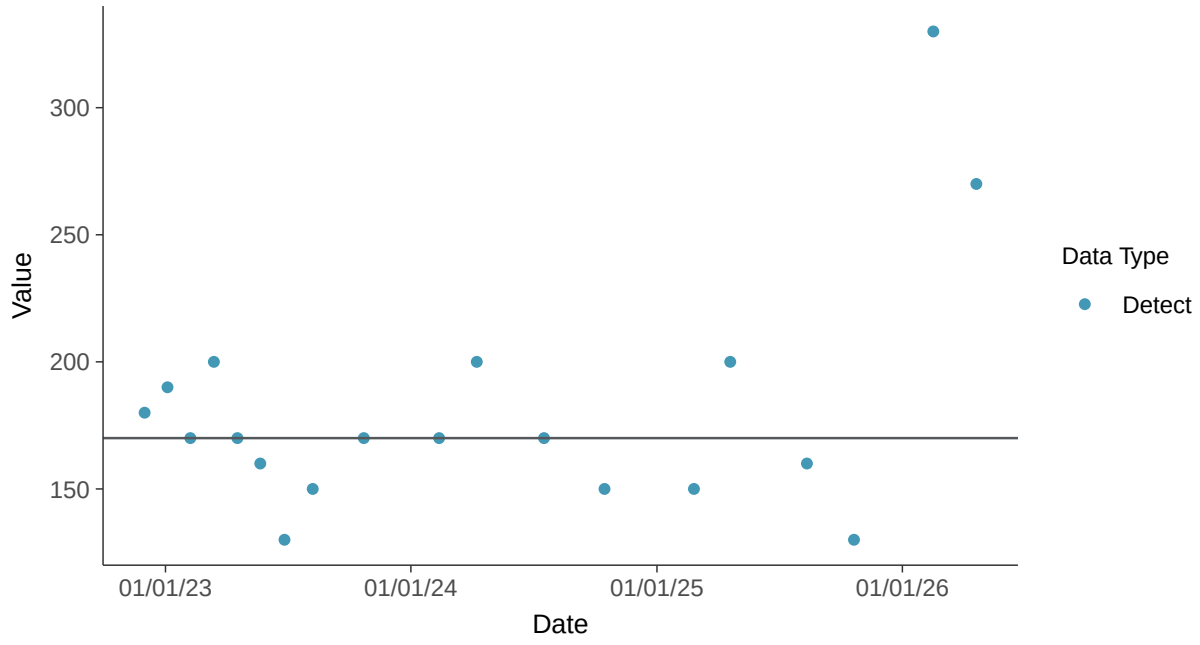
Normal Q-Q plot

Calcium, MW-31 (mg/L)



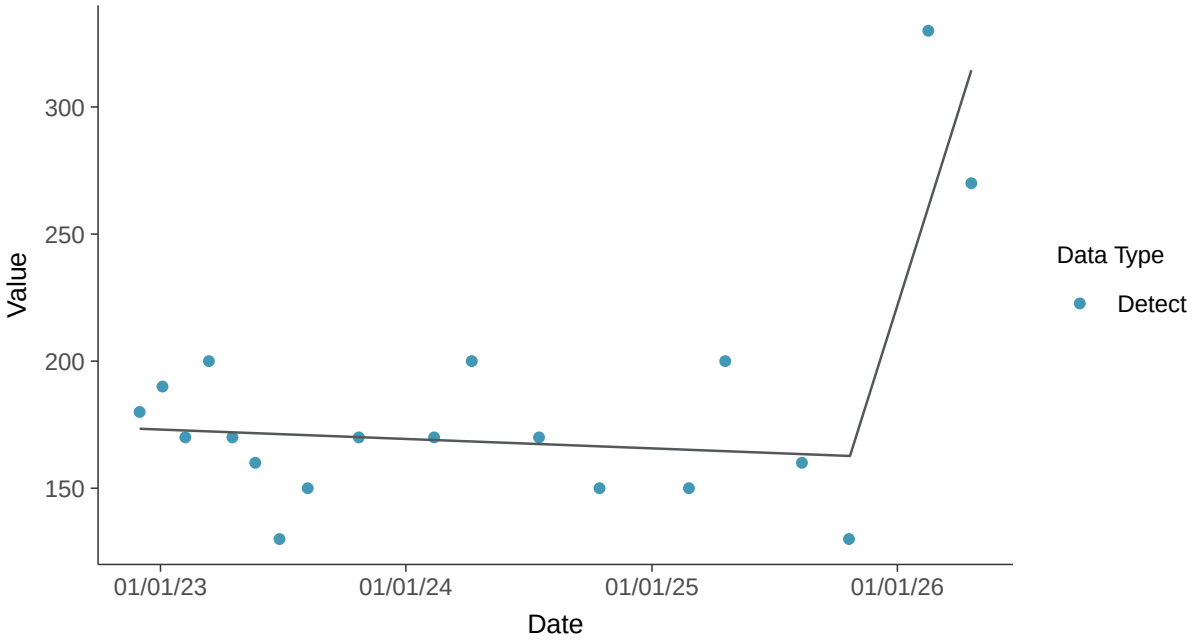
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Calcium, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

Calcium, MW-31 (mg/L)

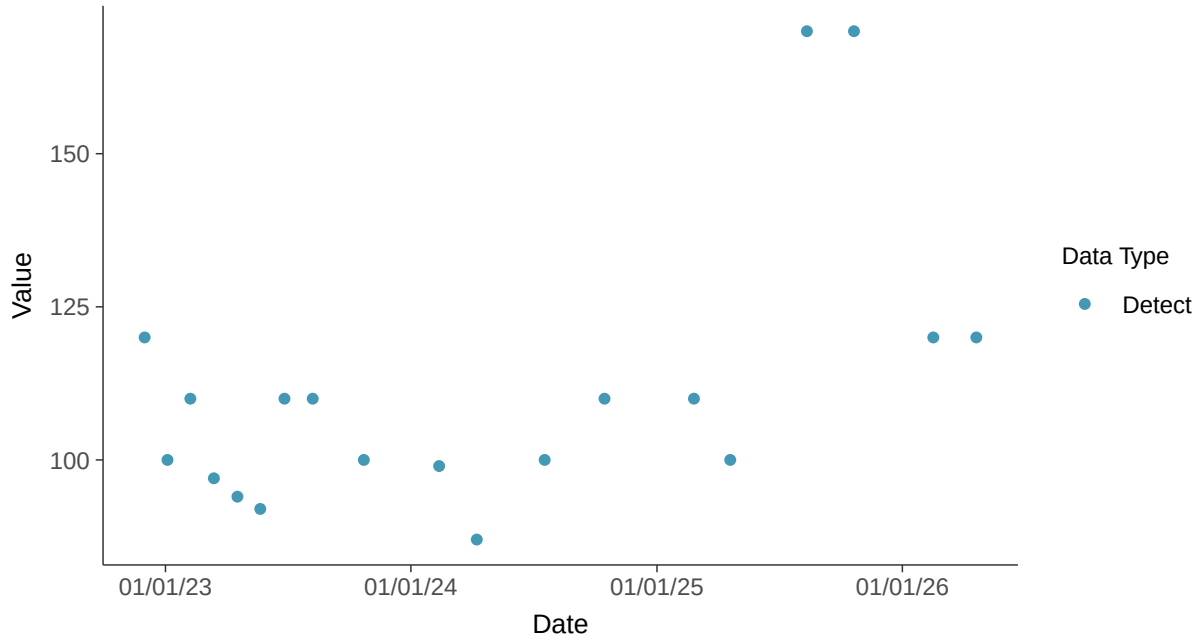


Appendix III: Chloride (as Cl), MW-31

ID: 41_1_3_108

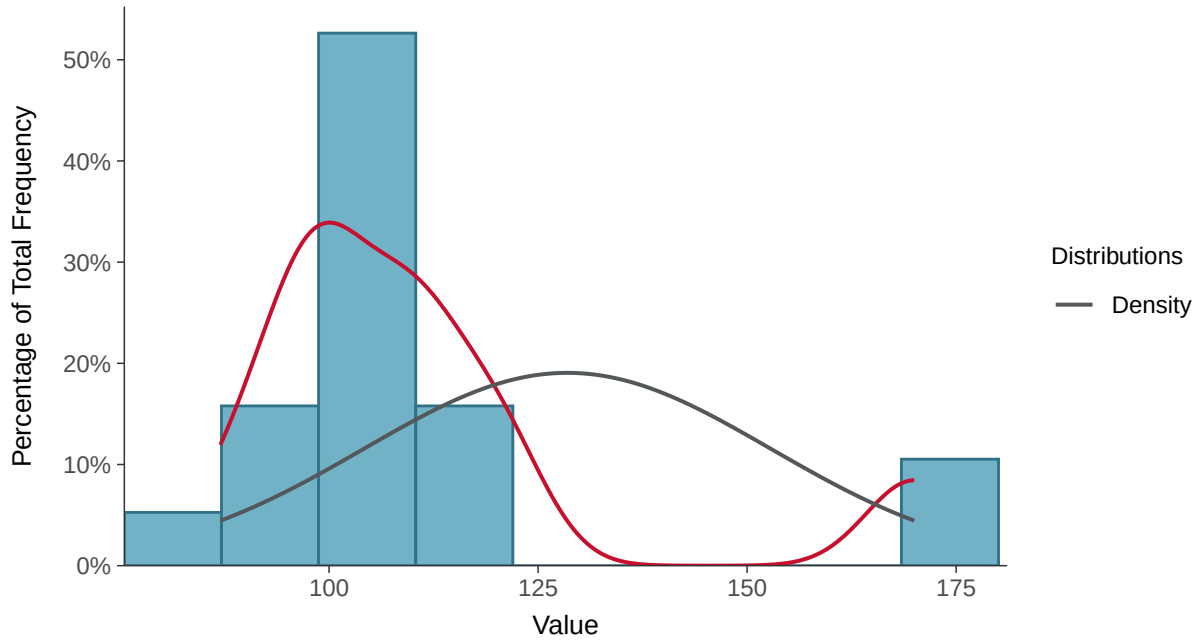
Scatter Plot

Chloride (as Cl), MW-31 (mg/L)



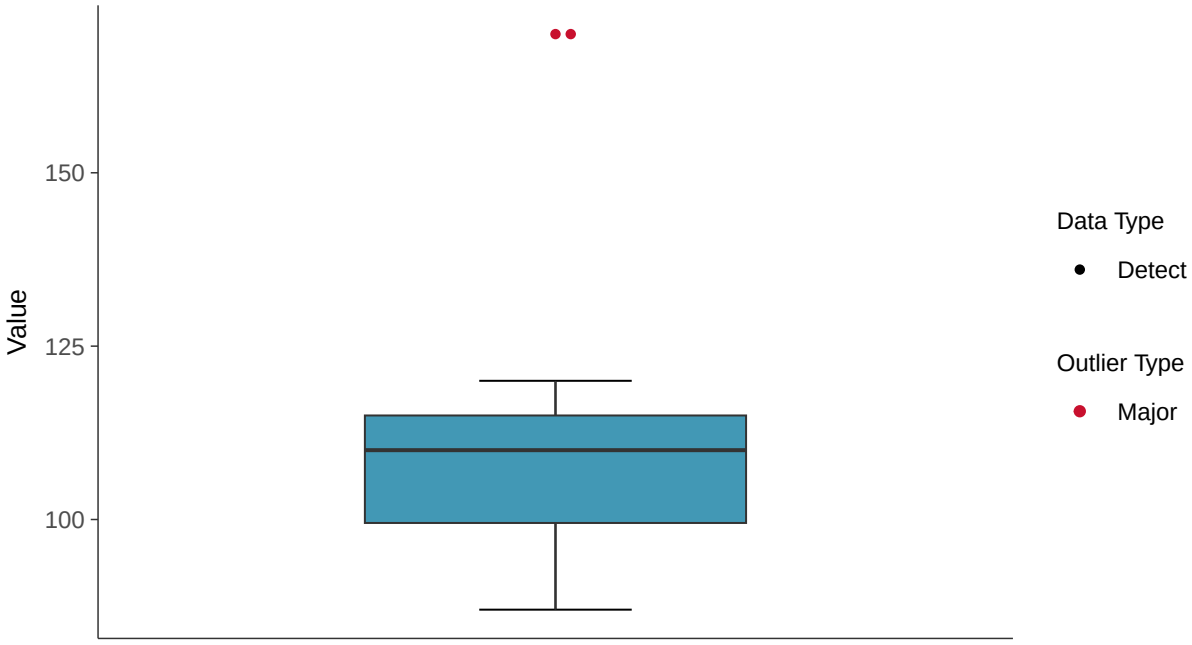
Histogram

Chloride (as Cl), MW-31 (mg/L)



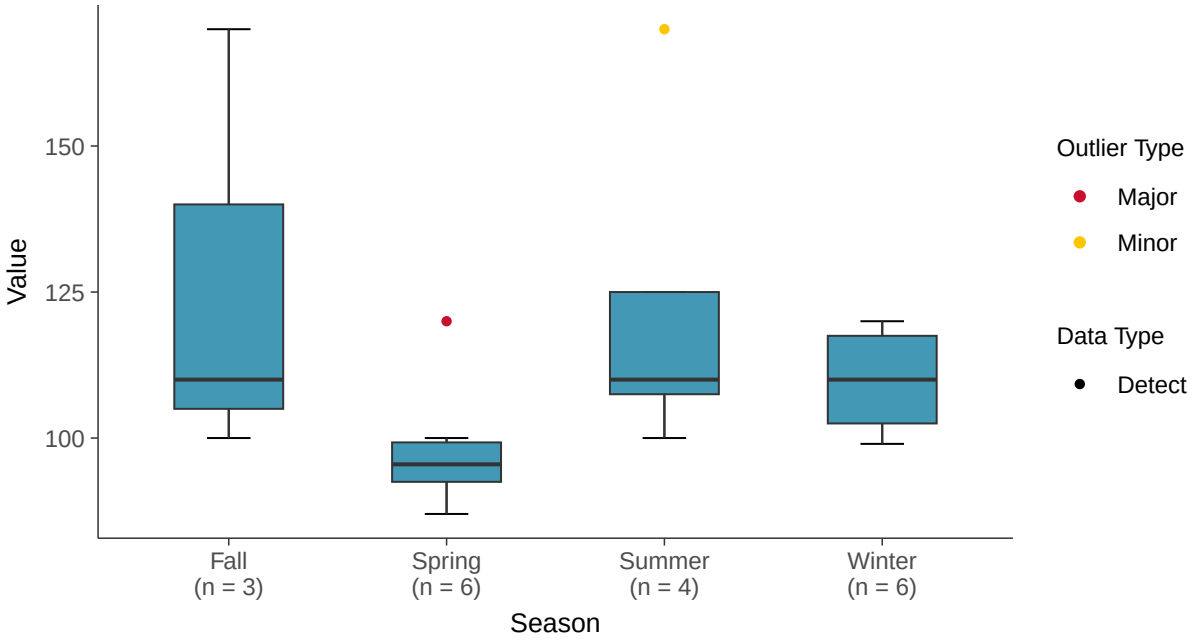
Boxplot

Chloride (as Cl), MW-31 (mg/L)



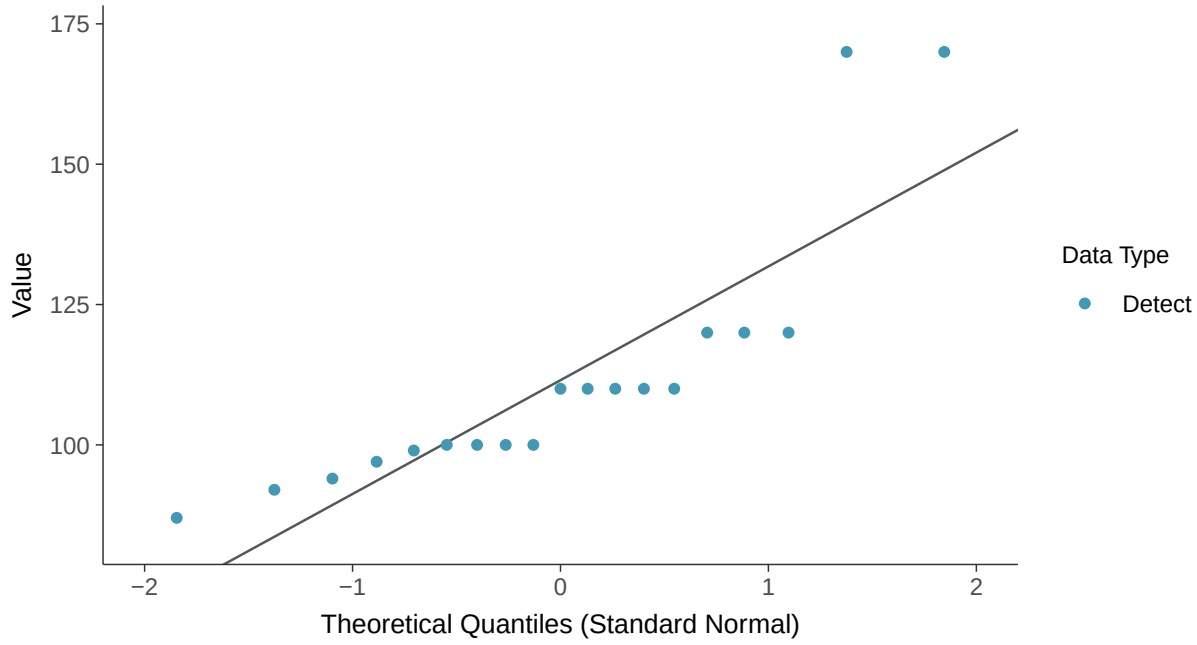
Boxplot by Season

Chloride (as Cl), MW-31 (mg/L)



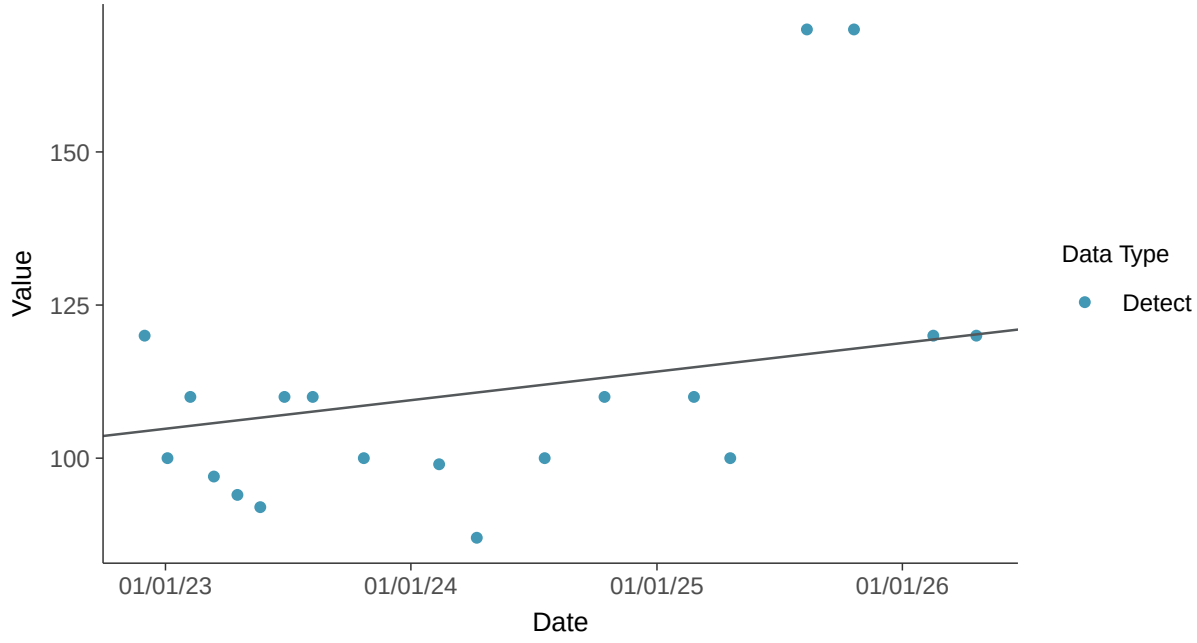
Normal Q-Q plot

Chloride (as Cl), MW-31 (mg/L)



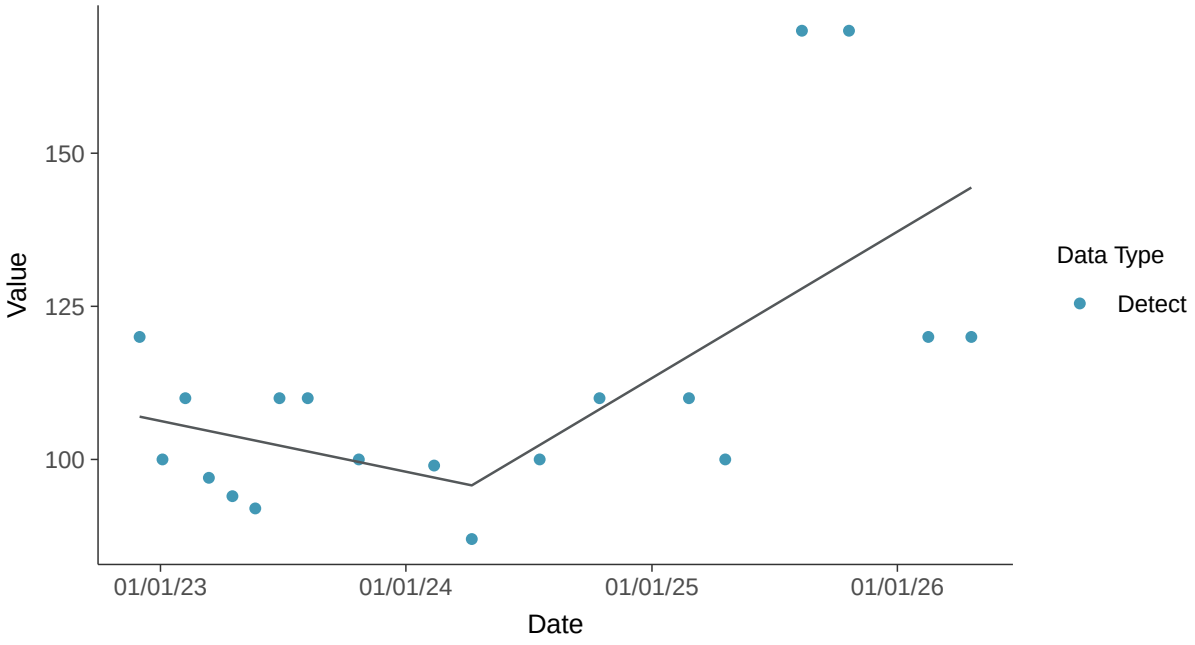
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chloride (as Cl), MW-31 (mg/L)



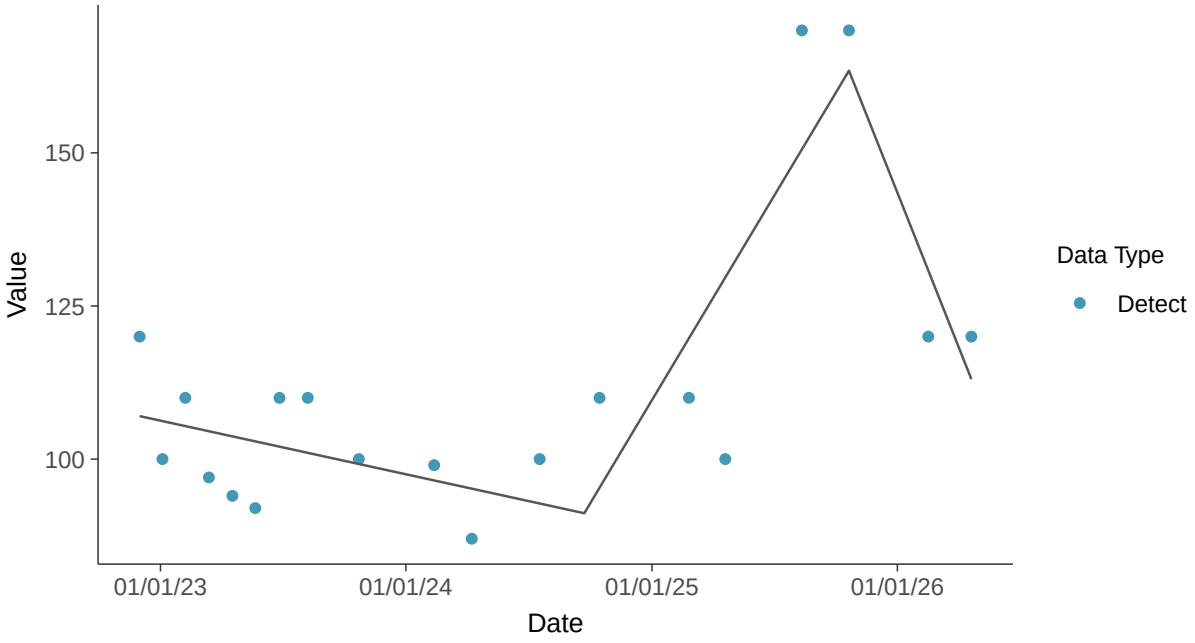
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-31 (mg/L)



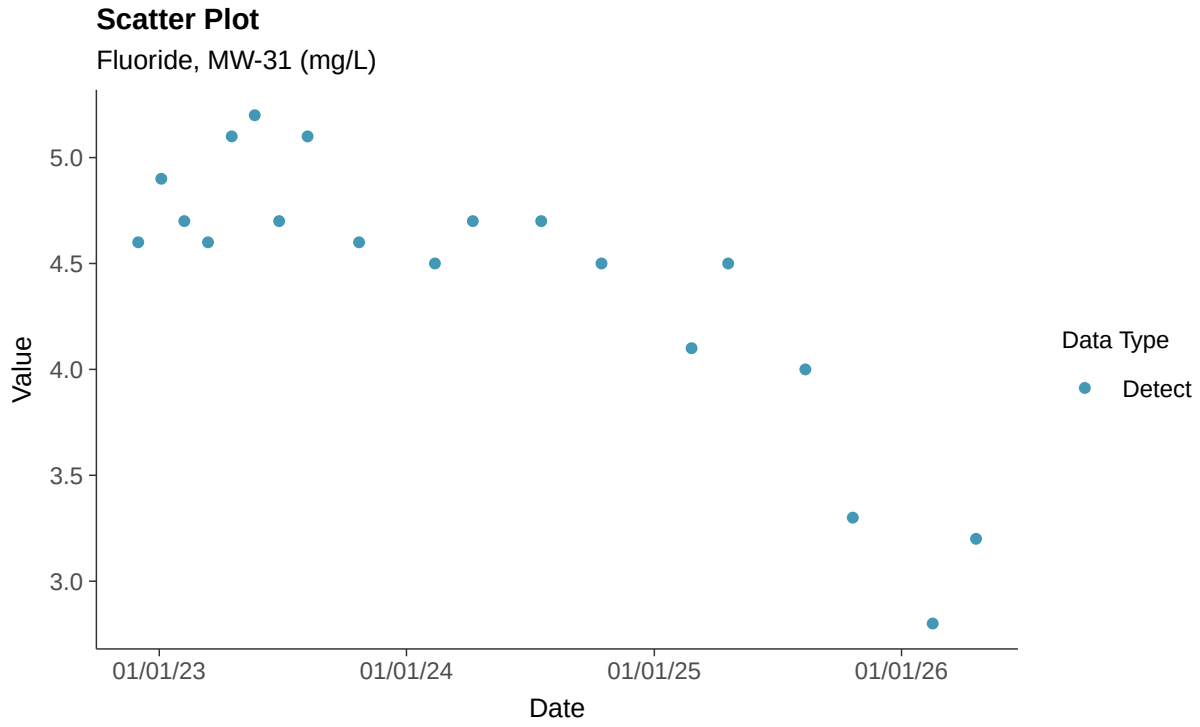
Trend Regression: Piecewise Linear-Linear-Linear

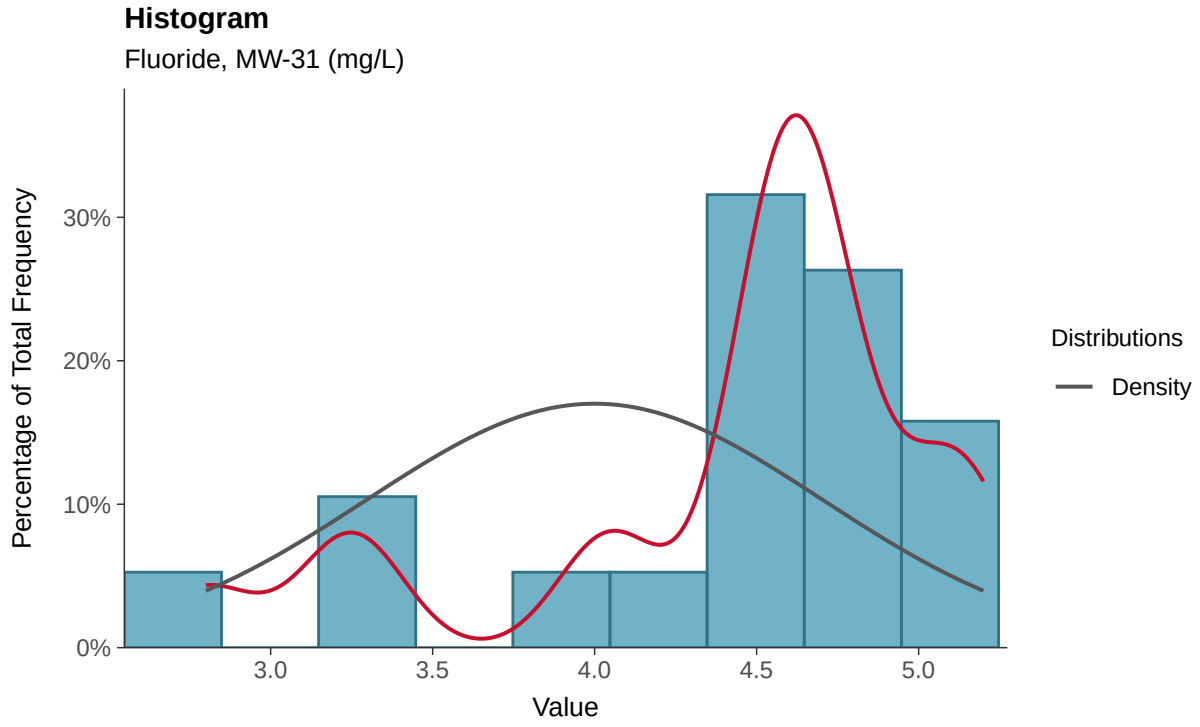
Chloride (as Cl), MW-31 (mg/L)



Appendix III: Fluoride, MW-31

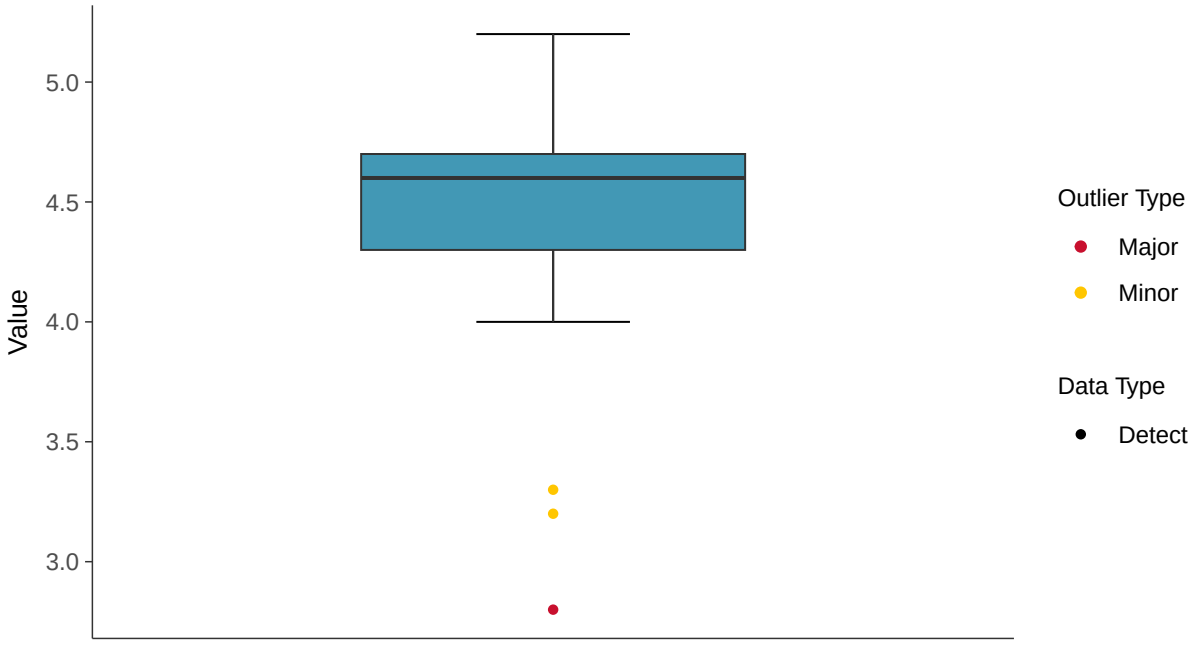
ID: 41_1_3_112





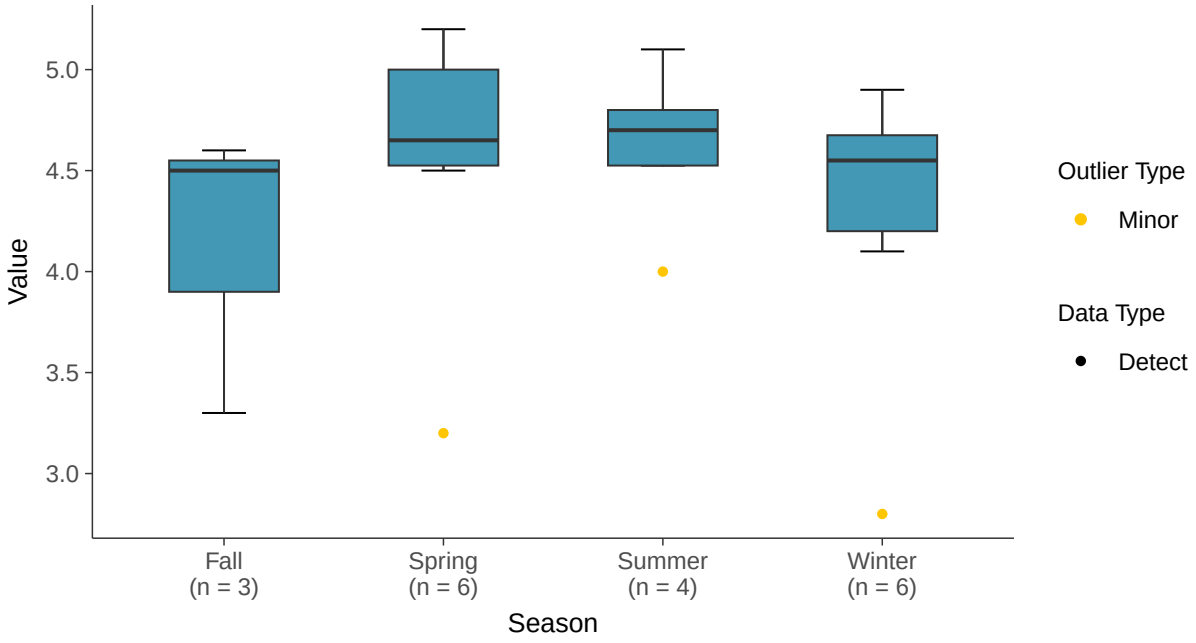
Boxplot

Fluoride, MW-31 (mg/L)



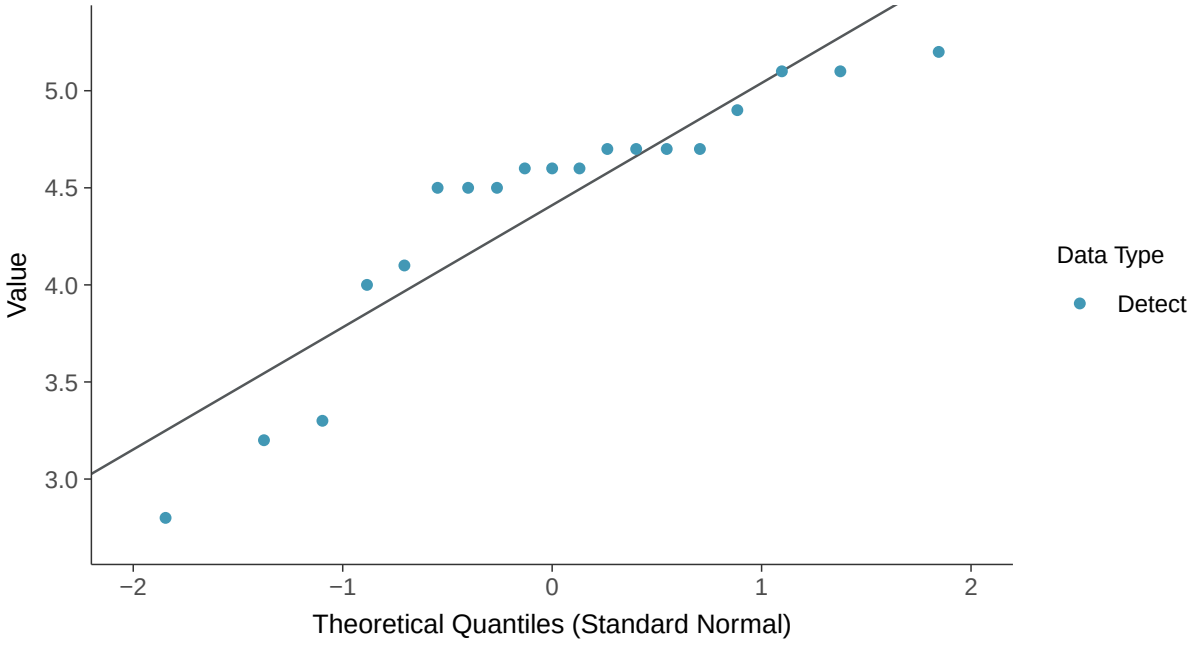
Boxplot by Season

Fluoride, MW-31 (mg/L)



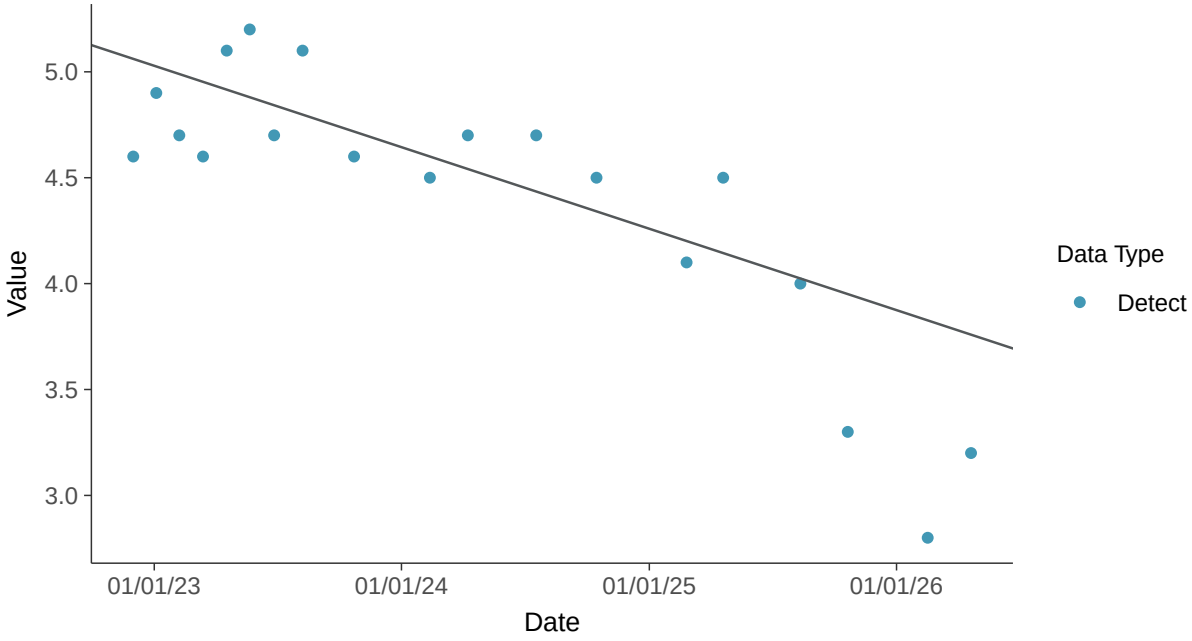
Normal Q-Q plot

Fluoride, MW-31 (mg/L)



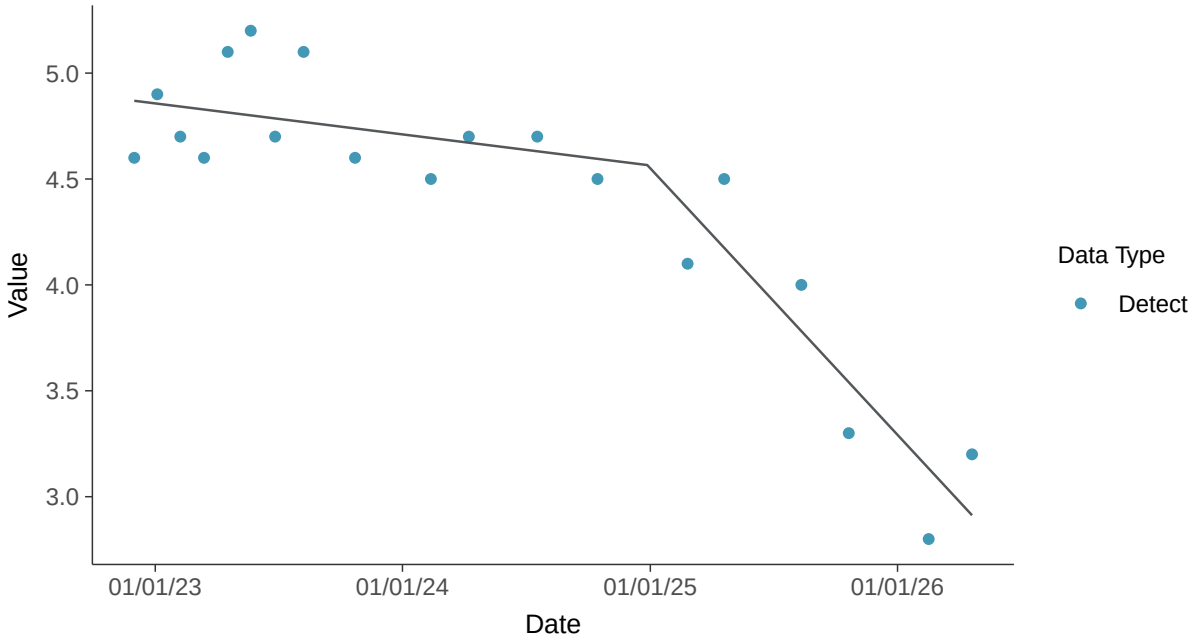
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride, MW-31 (mg/L)



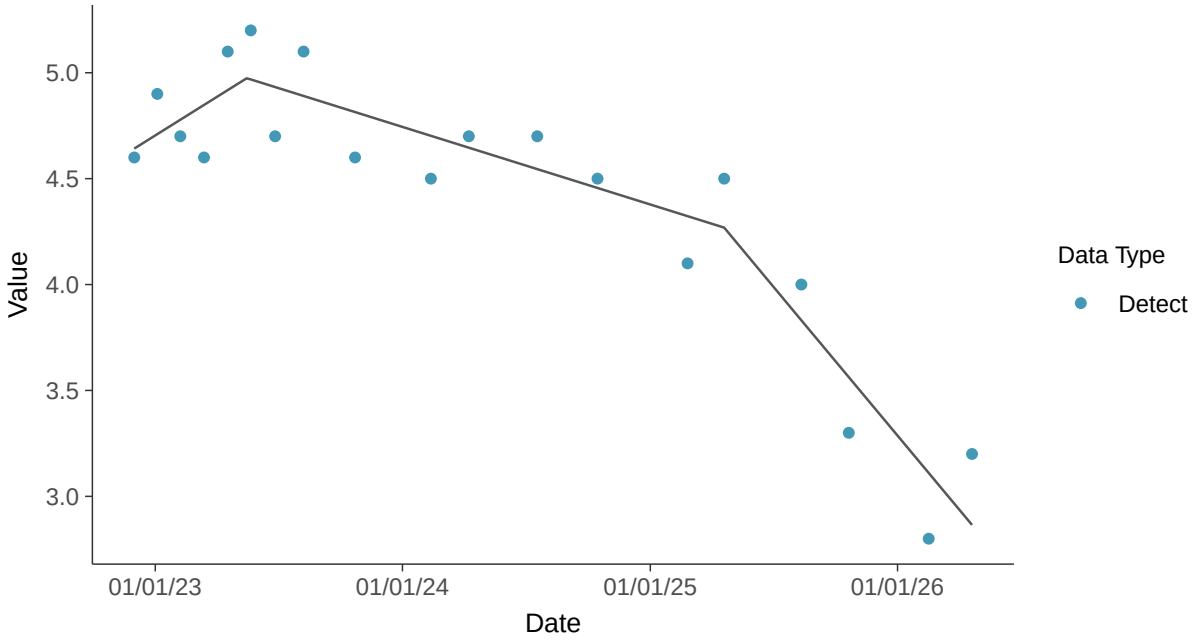
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-31 (mg/L)

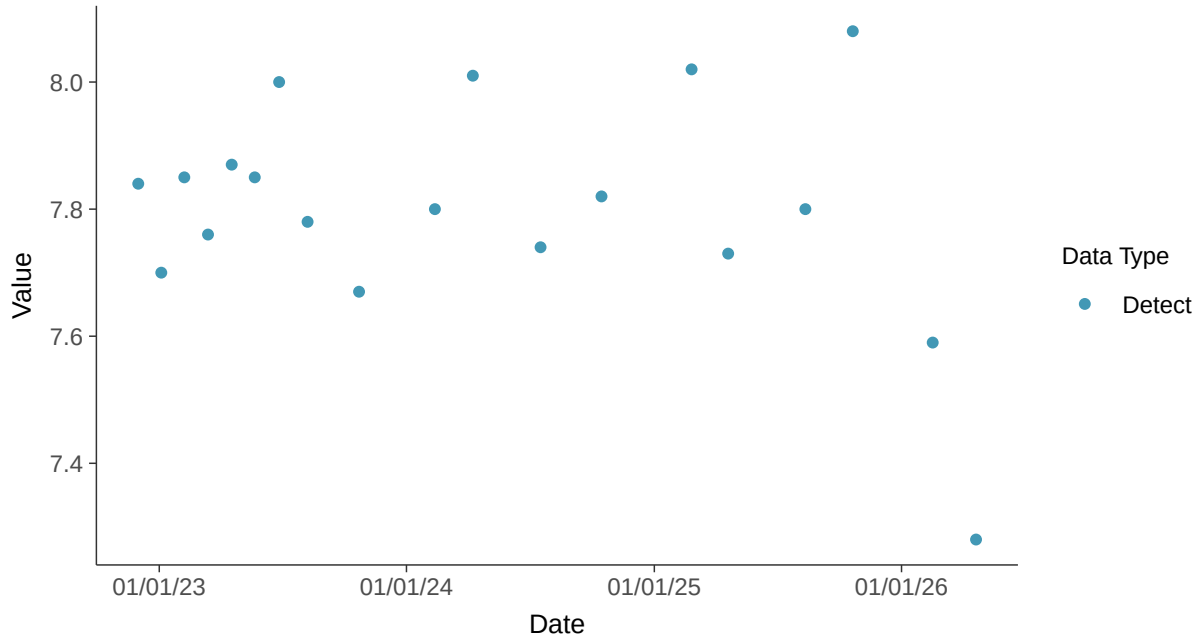


Appendix III: pH (field), MW-31

ID: 41_1_3_120

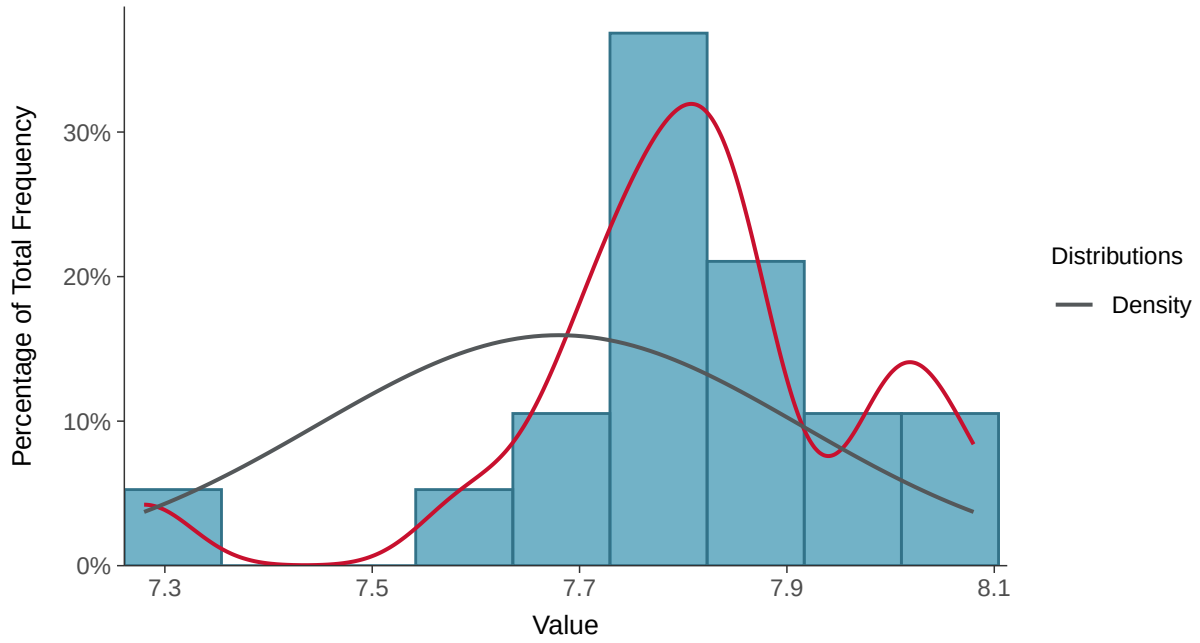
Scatter Plot

pH (field), MW-31 (su)



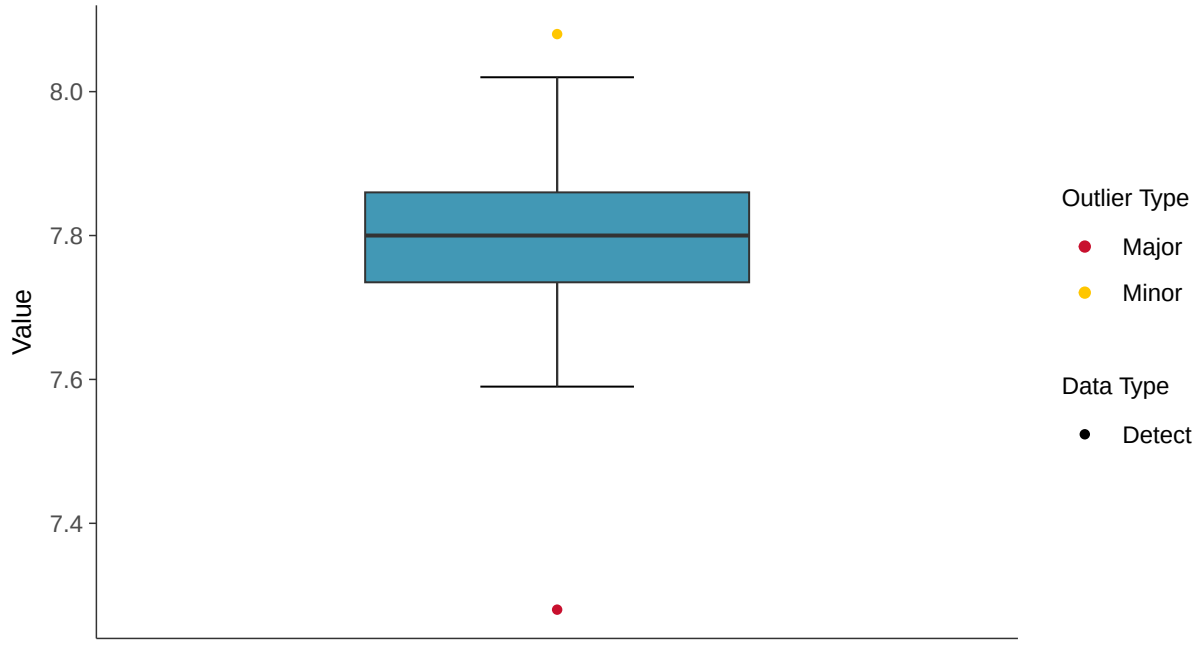
Histogram

pH (field), MW-31 (su)



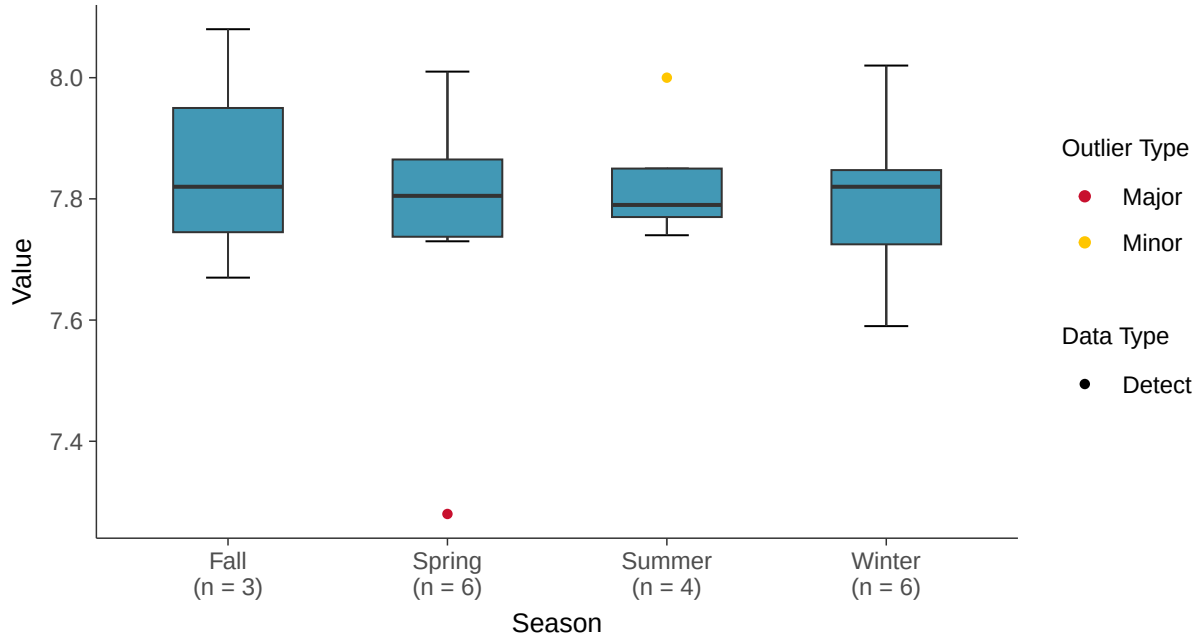
Boxplot

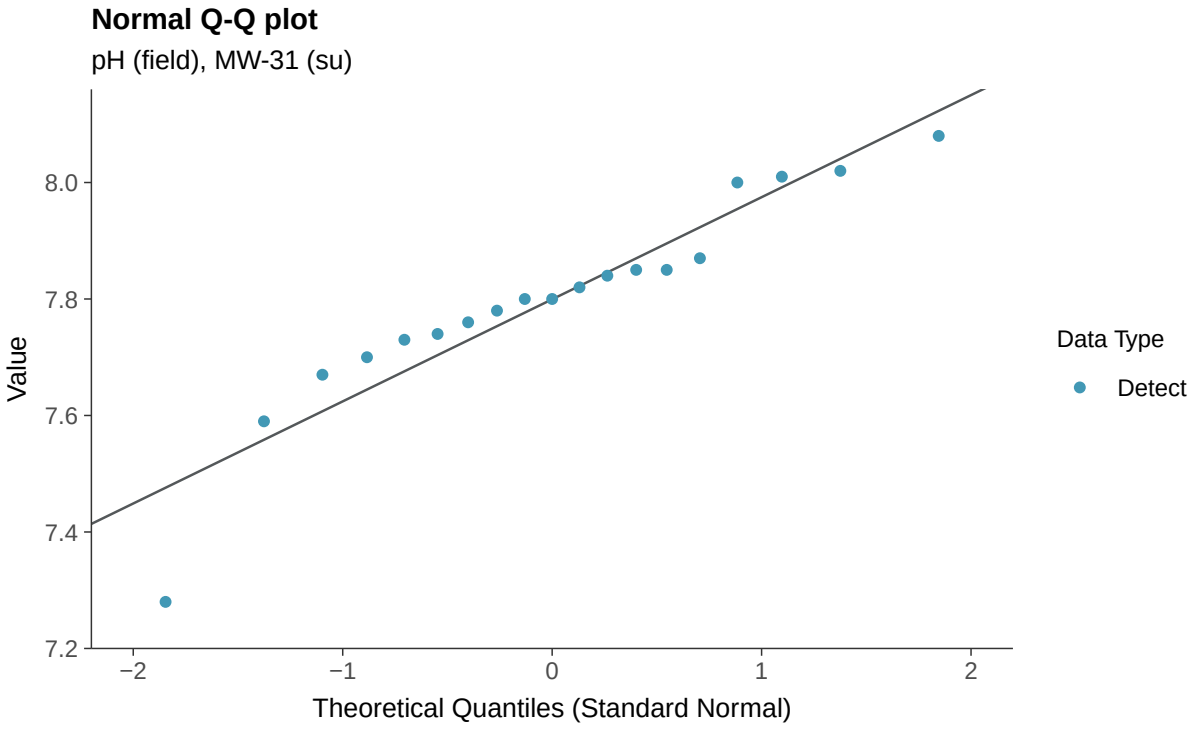
pH (field), MW-31 (su)

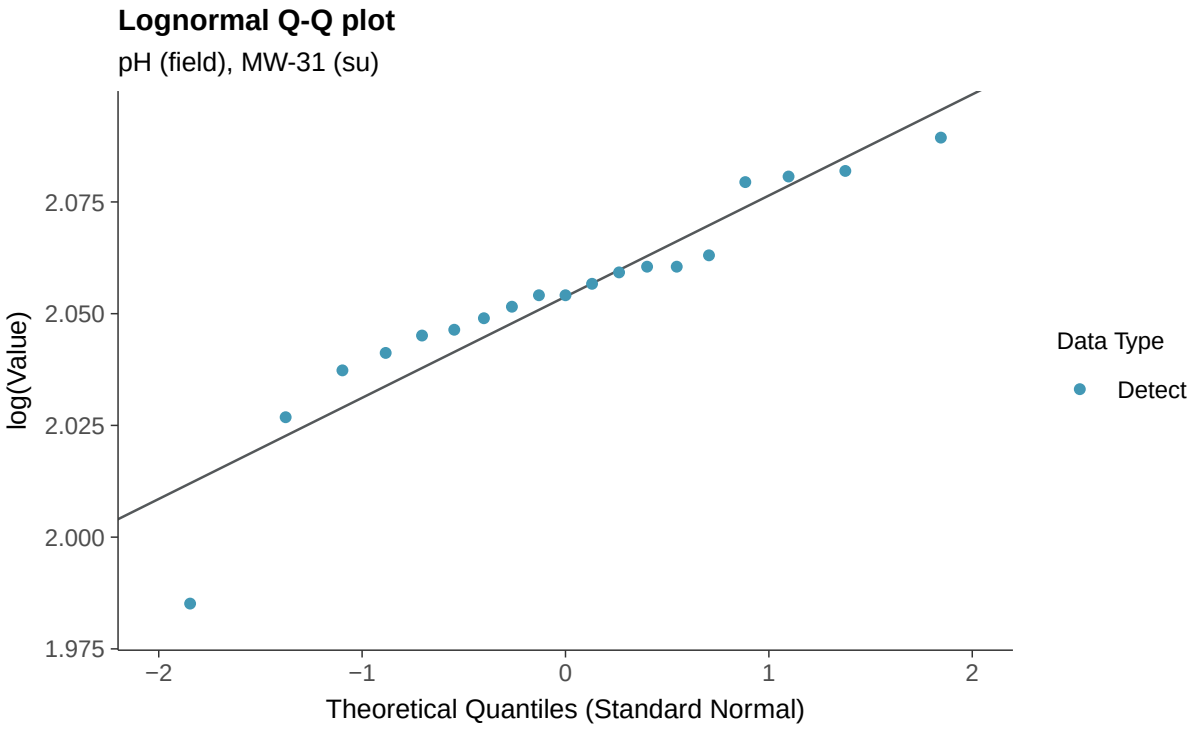


Boxplot by Season

pH (field), MW-31 (su)

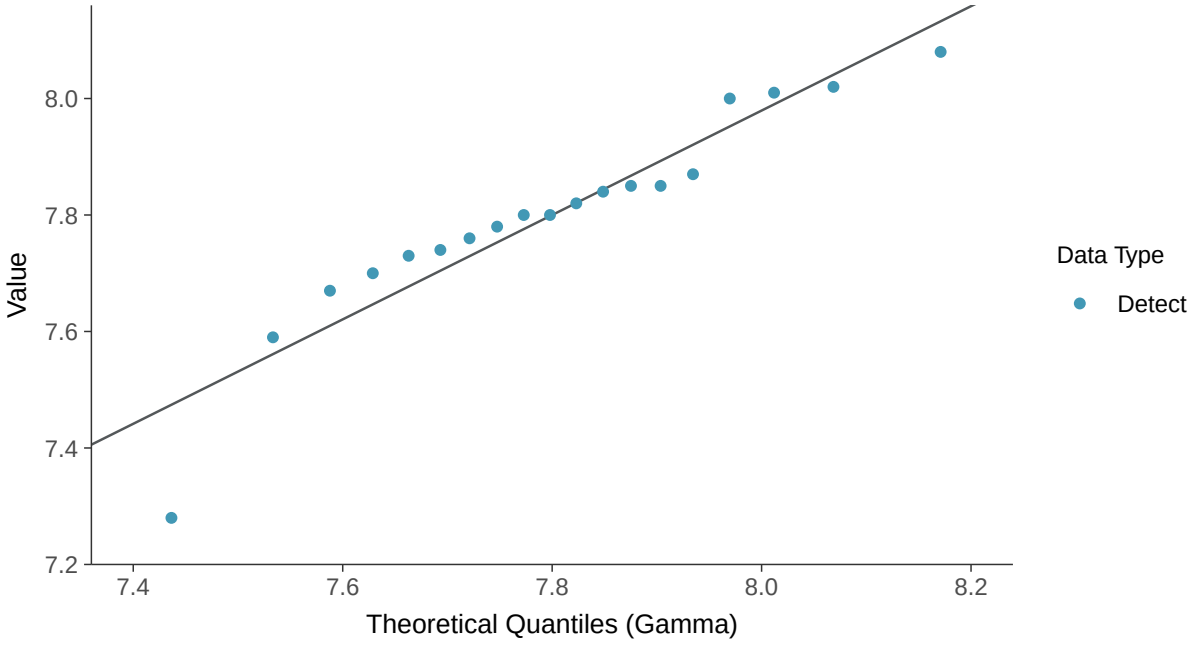



Normal Q-Q plot
pH (field), MW-31 (su)
Value
8.0
7.8
7.6
7.4
7.2
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
pH (field), MW-31 (su)
log(Value)
2.075
2.050
2.025
2.000
1.975
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

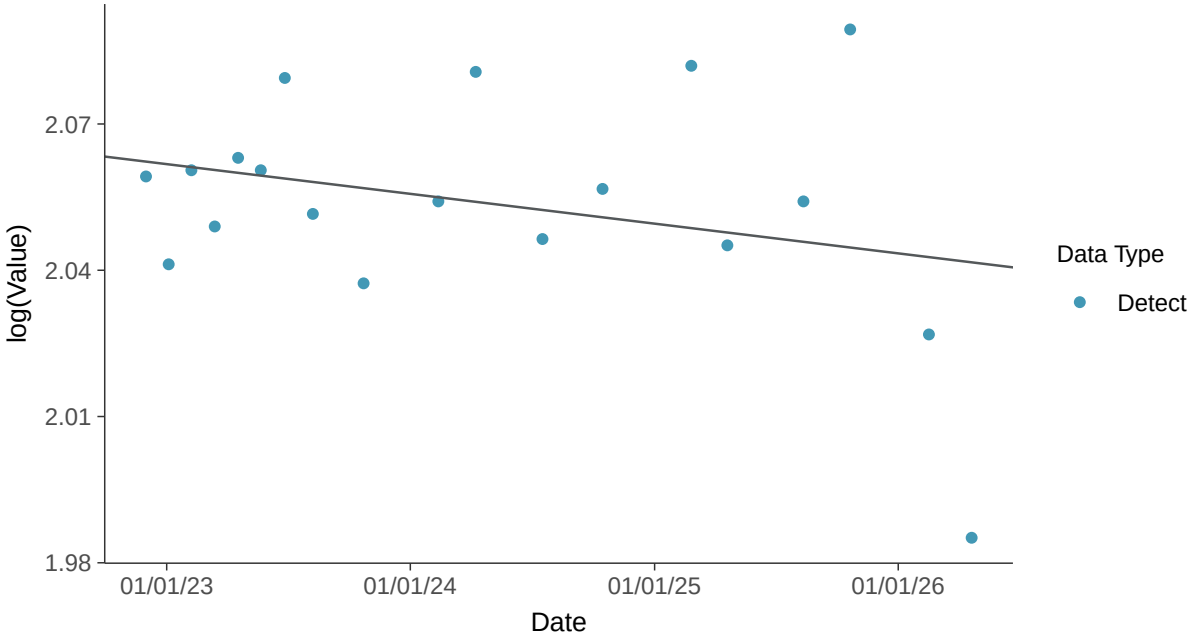
Gamma Q-Q plot

pH (field), MW-31 (su)



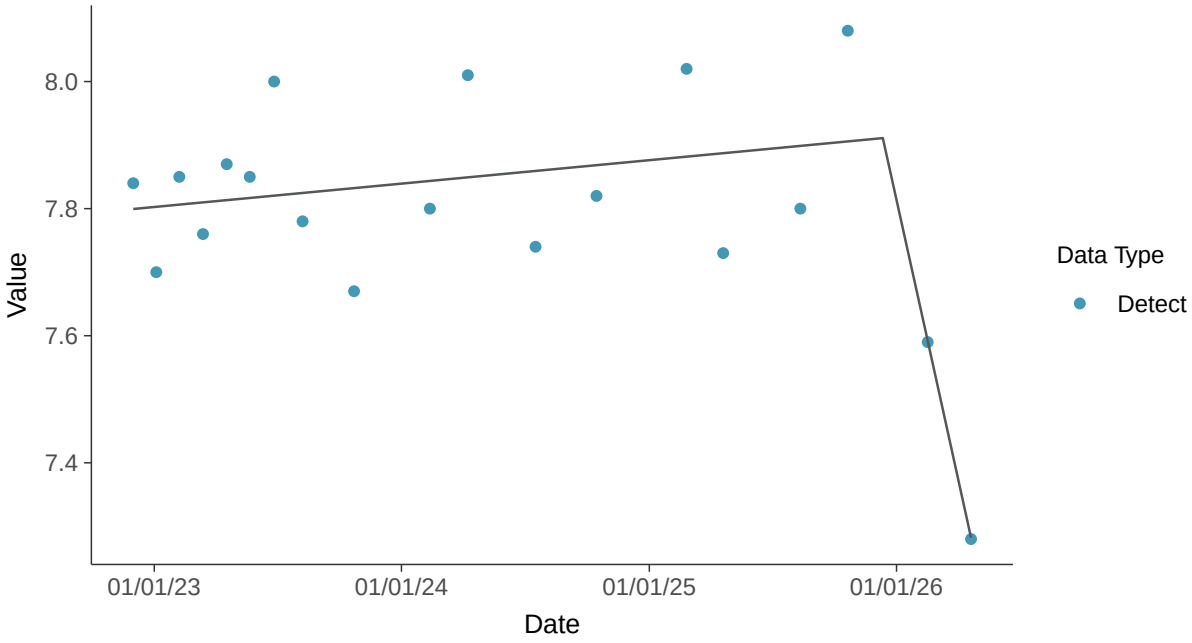
Trend Regression: Lognormal MLE

pH (field), MW-31 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-31 (su)

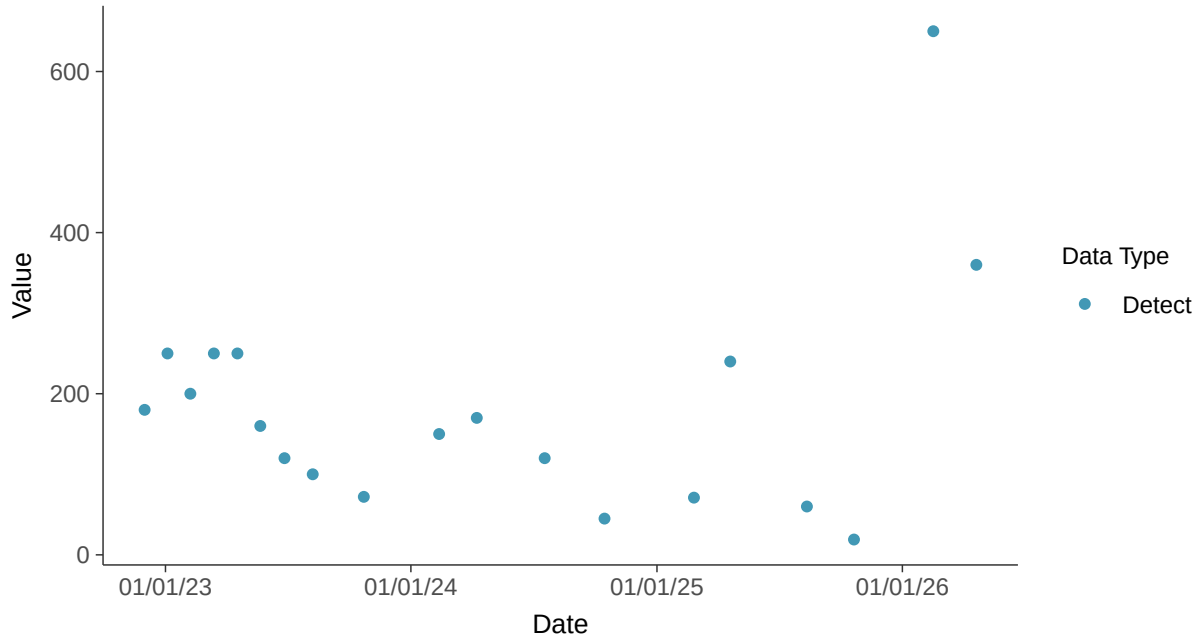


Appendix III: Sulfate (as SO4), MW-31

ID: 41_1_3_124

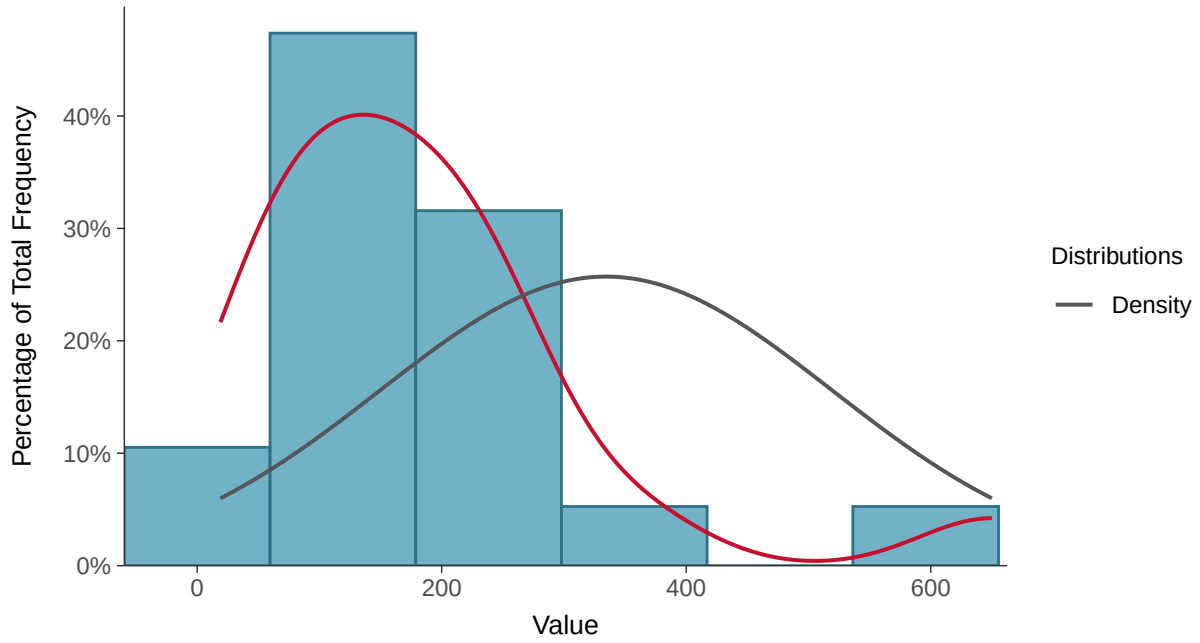
Scatter Plot

Sulfate (as SO4), MW-31 (mg/L)



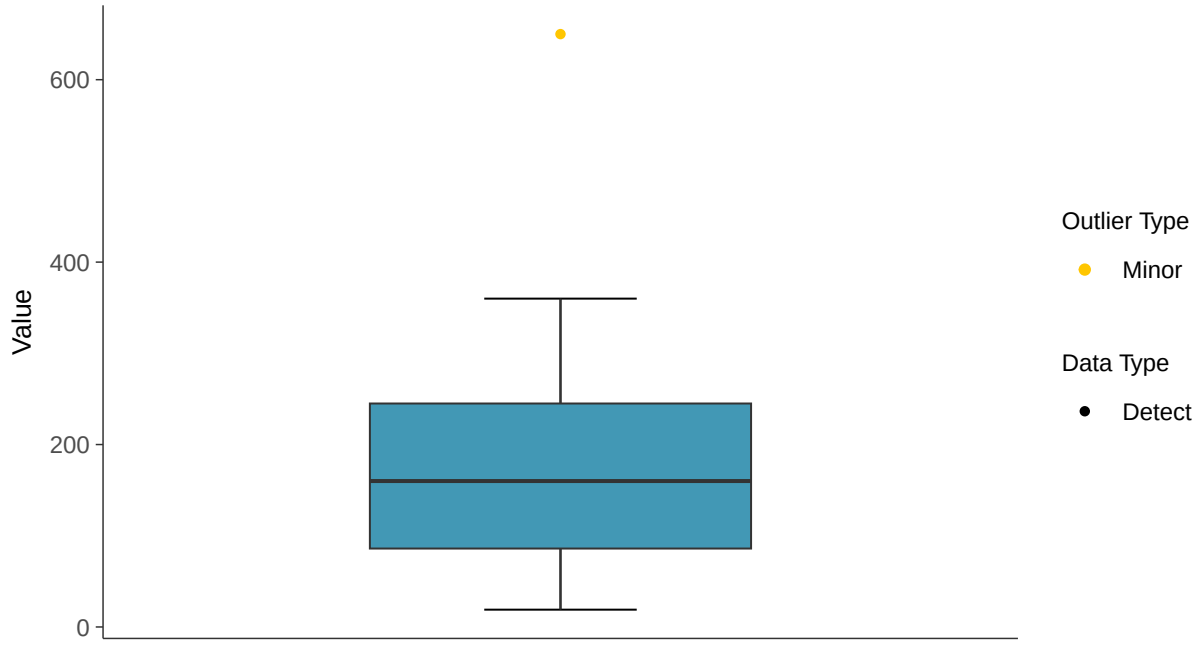
Histogram

Sulfate (as SO4), MW-31 (mg/L)



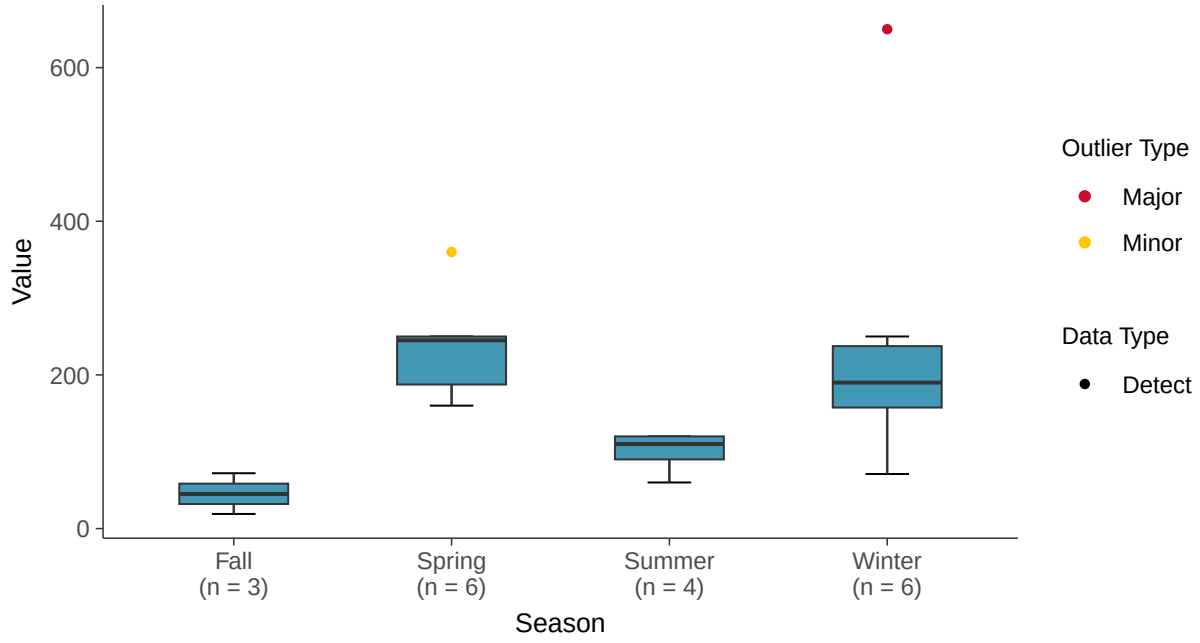
Boxplot

Sulfate (as SO4), MW-31 (mg/L)



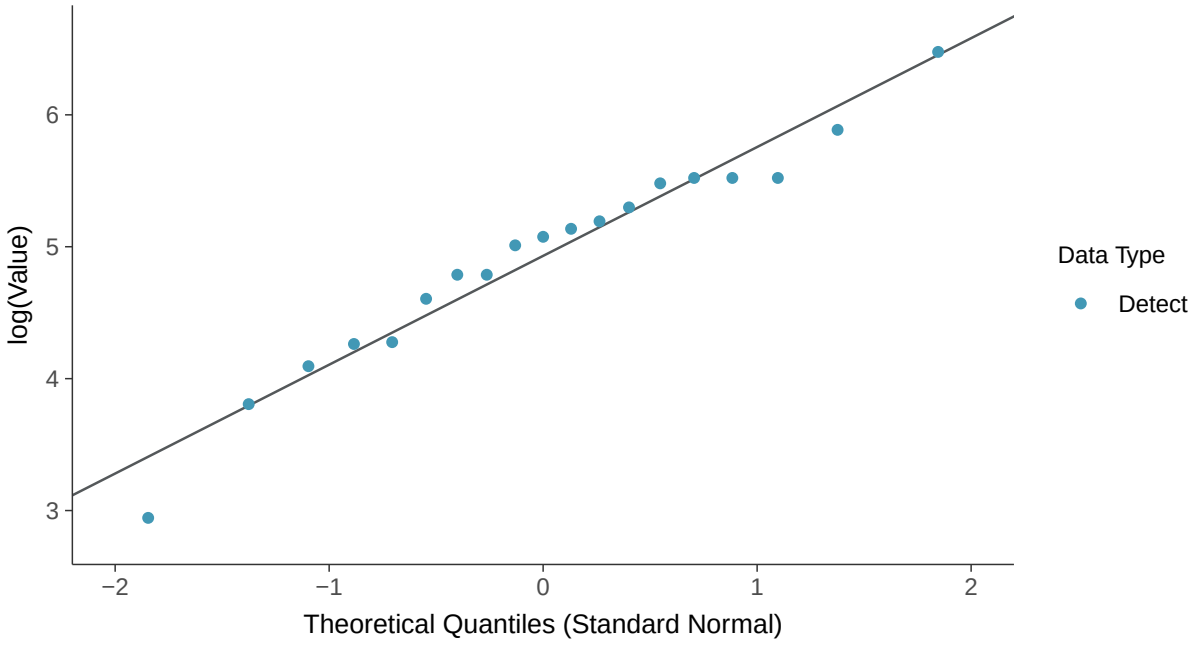
Boxplot by Season

Sulfate (as SO4), MW-31 (mg/L)



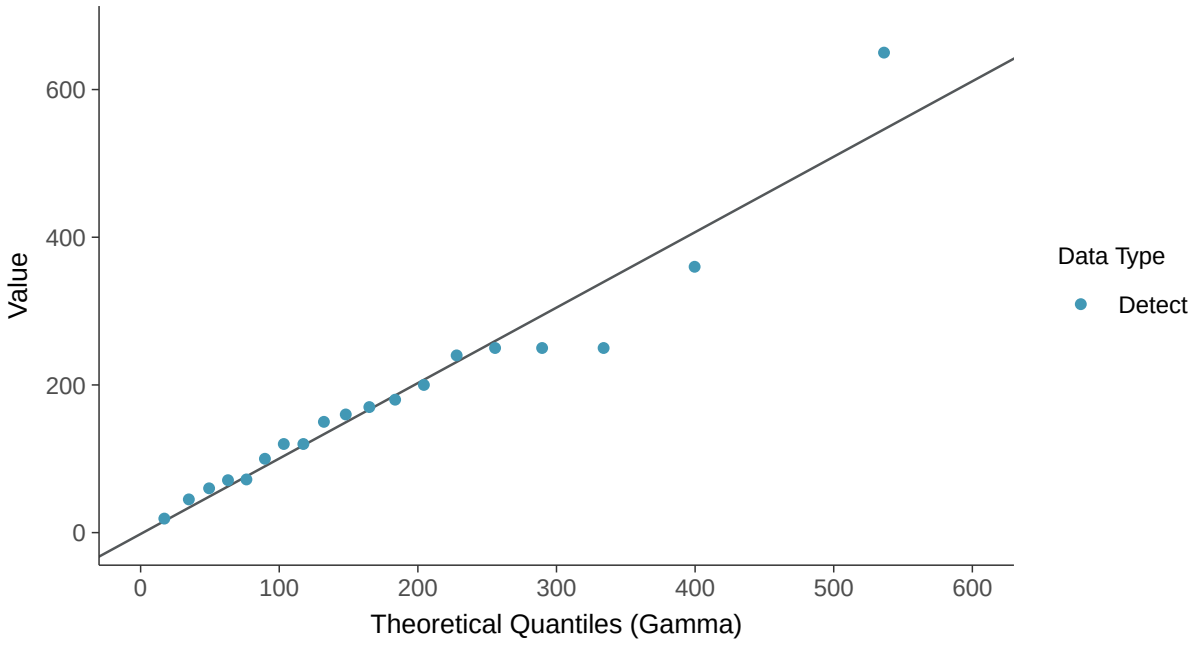
Lognormal Q-Q plot

Sulfate (as SO4), MW-31 (mg/L)



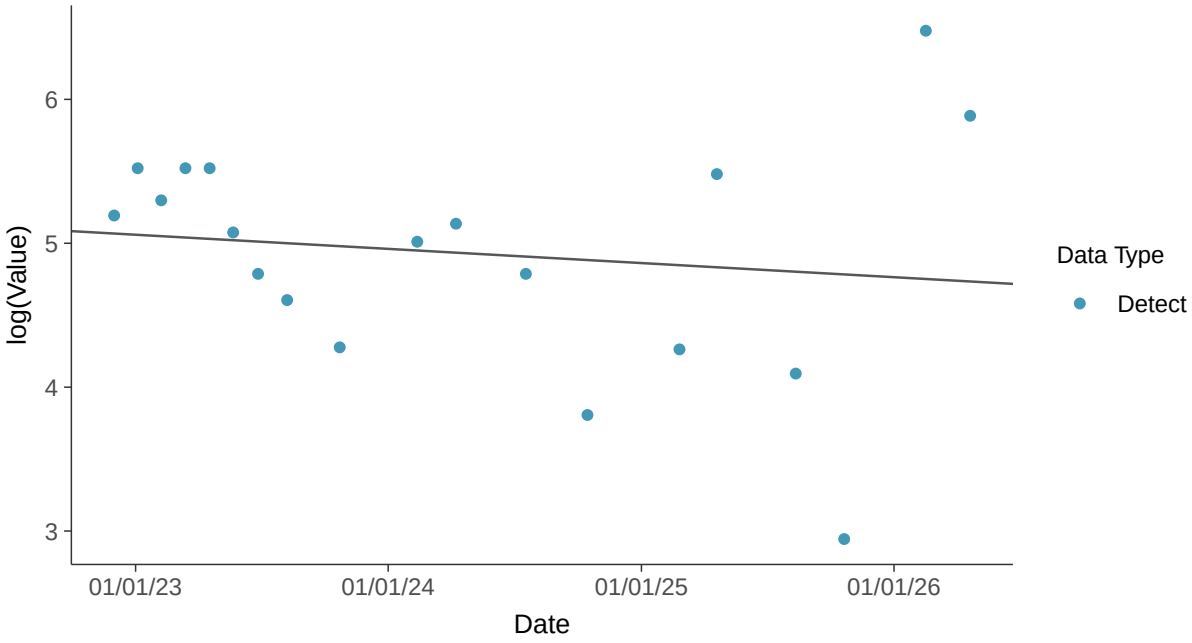
Gamma Q-Q plot

Sulfate (as SO4), MW-31 (mg/L)



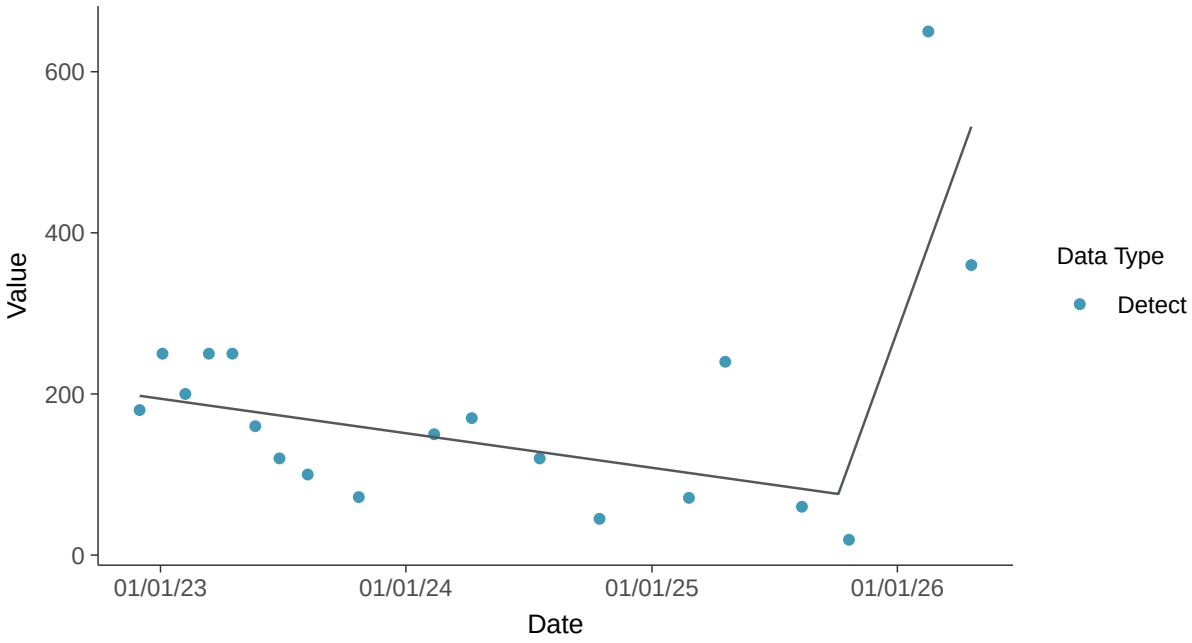
Trend Regression: Lognormal MLE

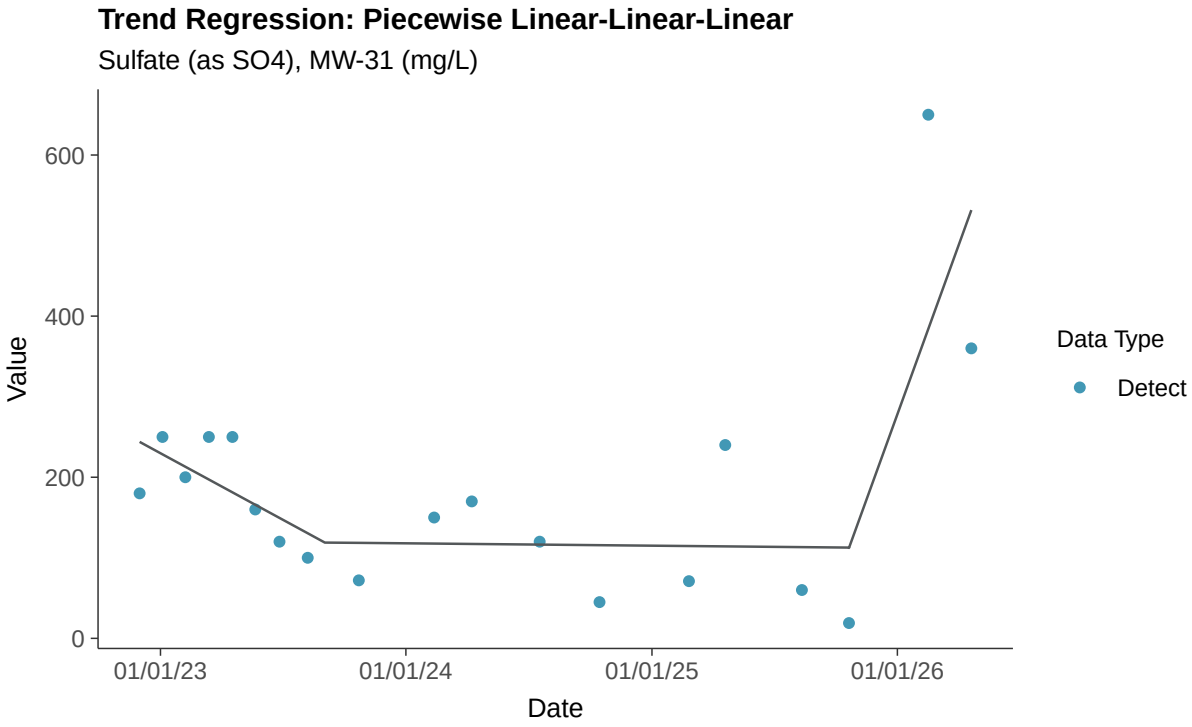
Sulfate (as SO4), MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-31 (mg/L)



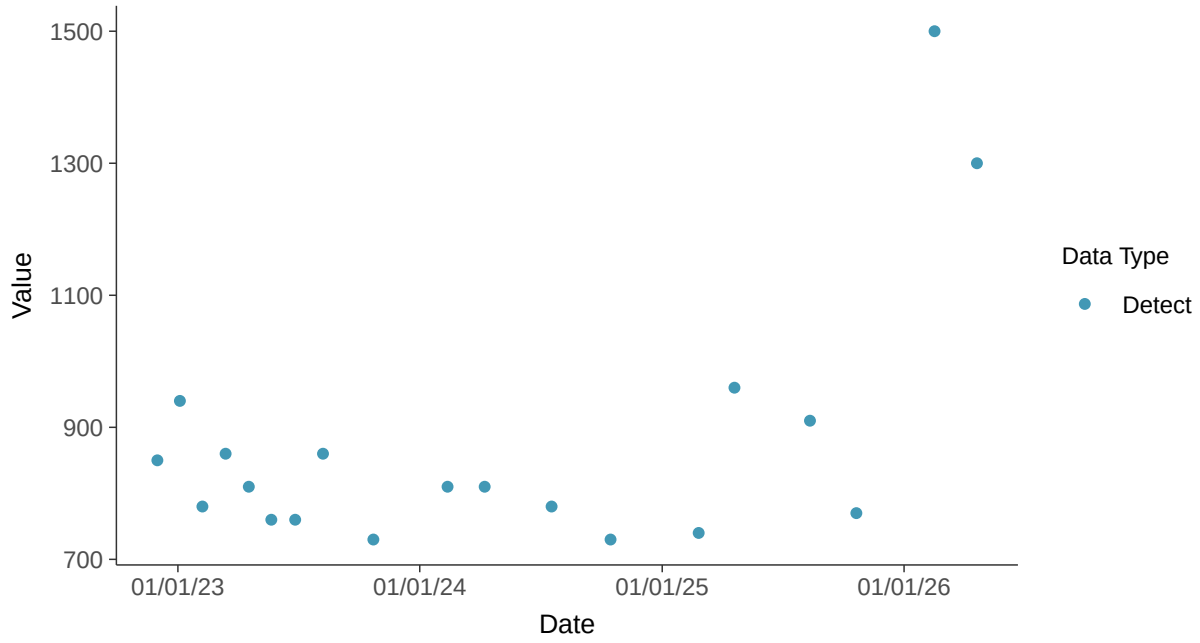

Trend Regression: Piecewise Linear-Linear-Linear
Sulfate (as SO4), MW-31 (mg/L)
Value
600
400
200
0
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Total Dissolved Solids, MW-31

ID: 41_1_3_126

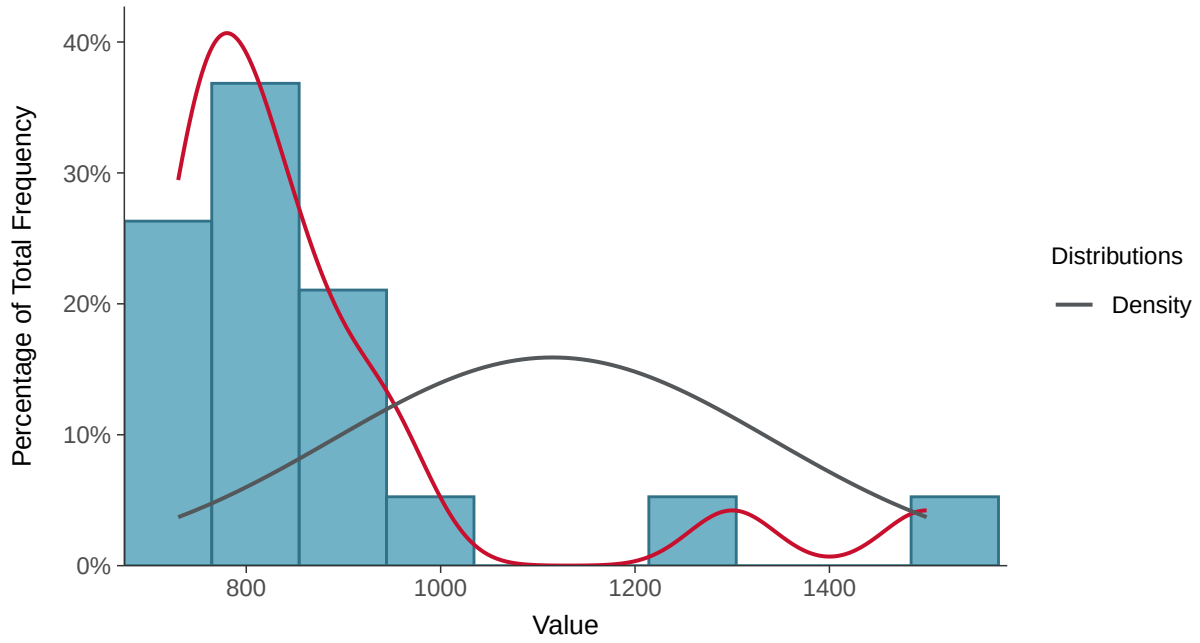
Scatter Plot

Total Dissolved Solids, MW-31 (mg/L)



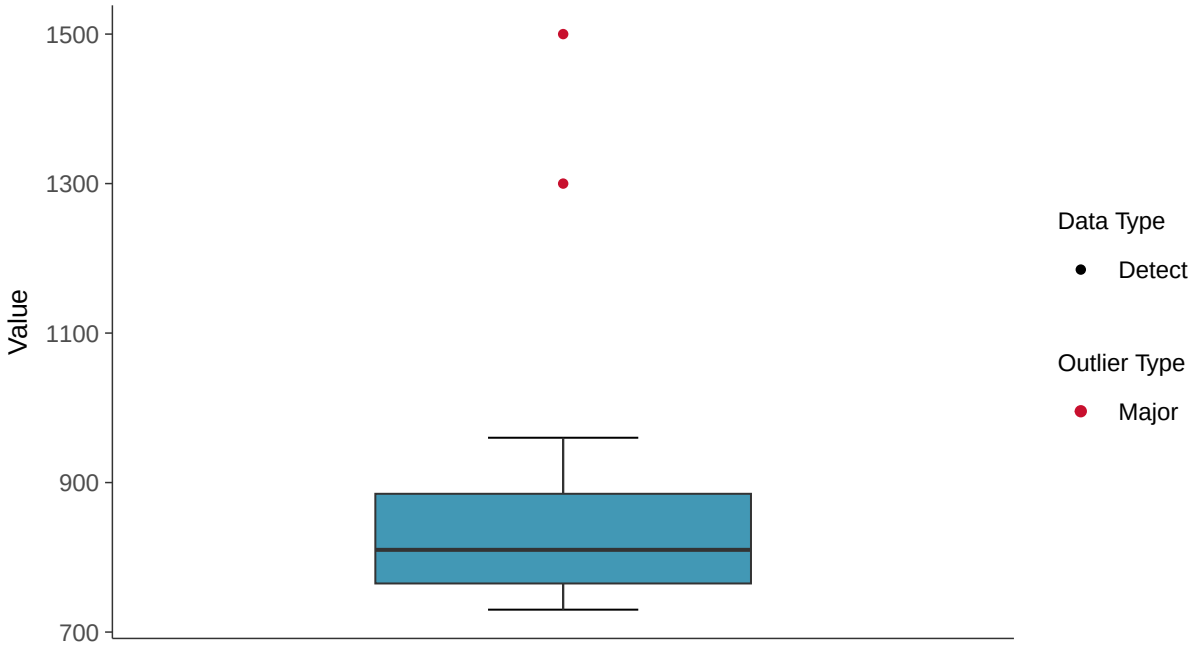
Histogram

Total Dissolved Solids, MW-31 (mg/L)



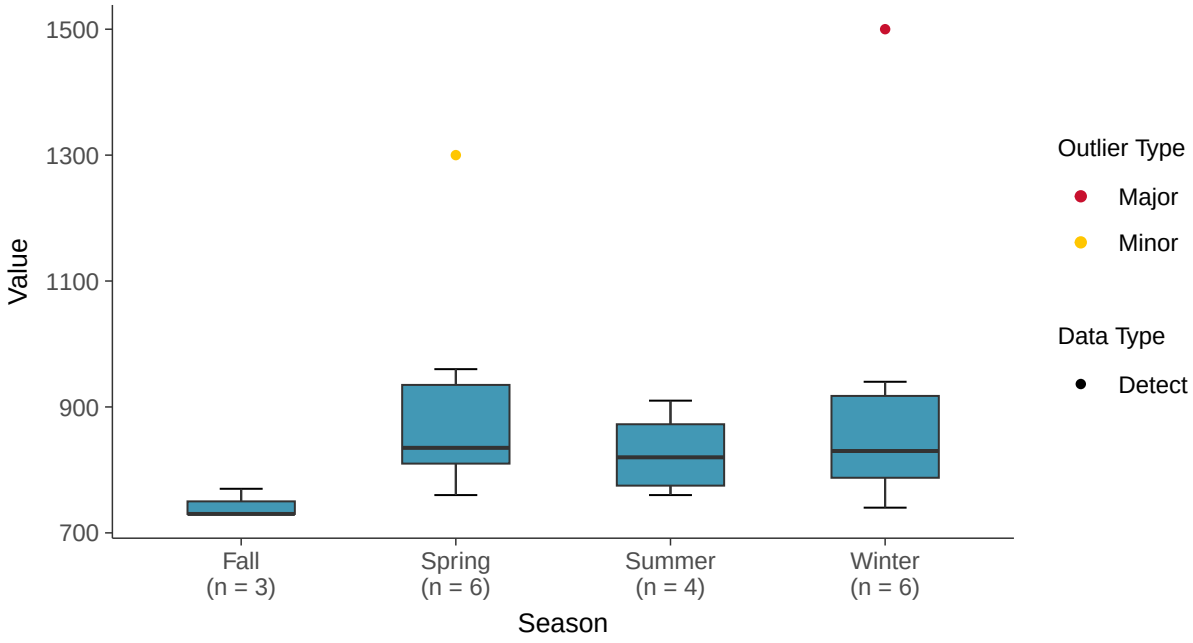
Boxplot

Total Dissolved Solids, MW-31 (mg/L)



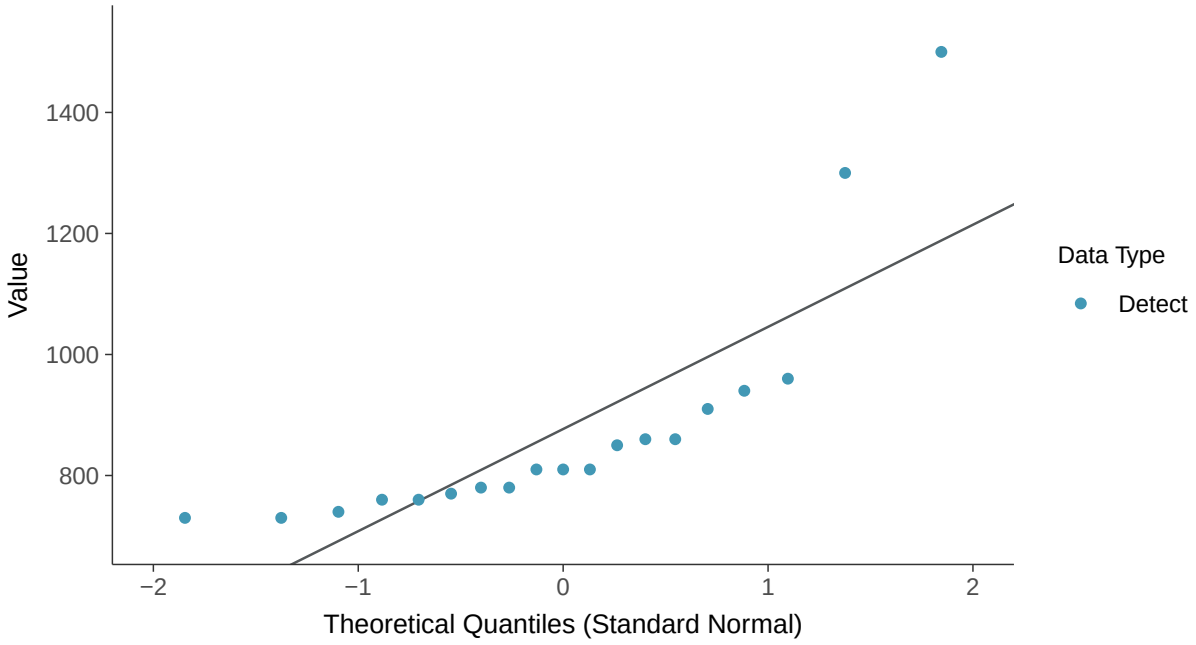
Boxplot by Season

Total Dissolved Solids, MW-31 (mg/L)



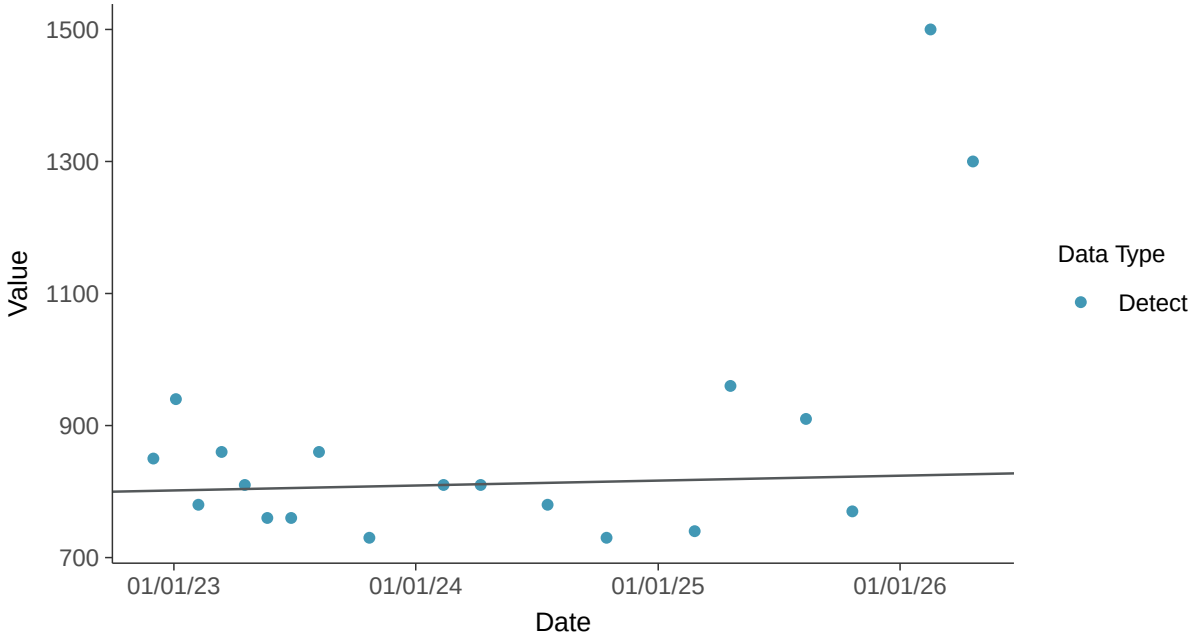
Normal Q-Q plot

Total Dissolved Solids, MW-31 (mg/L)



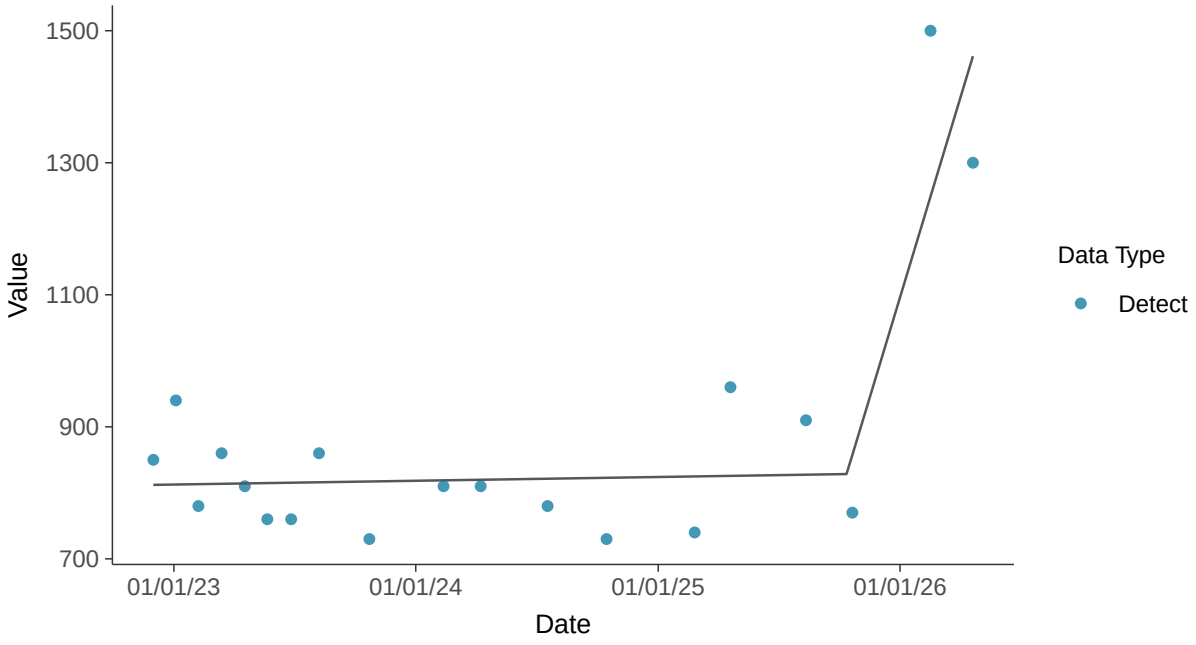
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Total Dissolved Solids, MW-31 (mg/L)



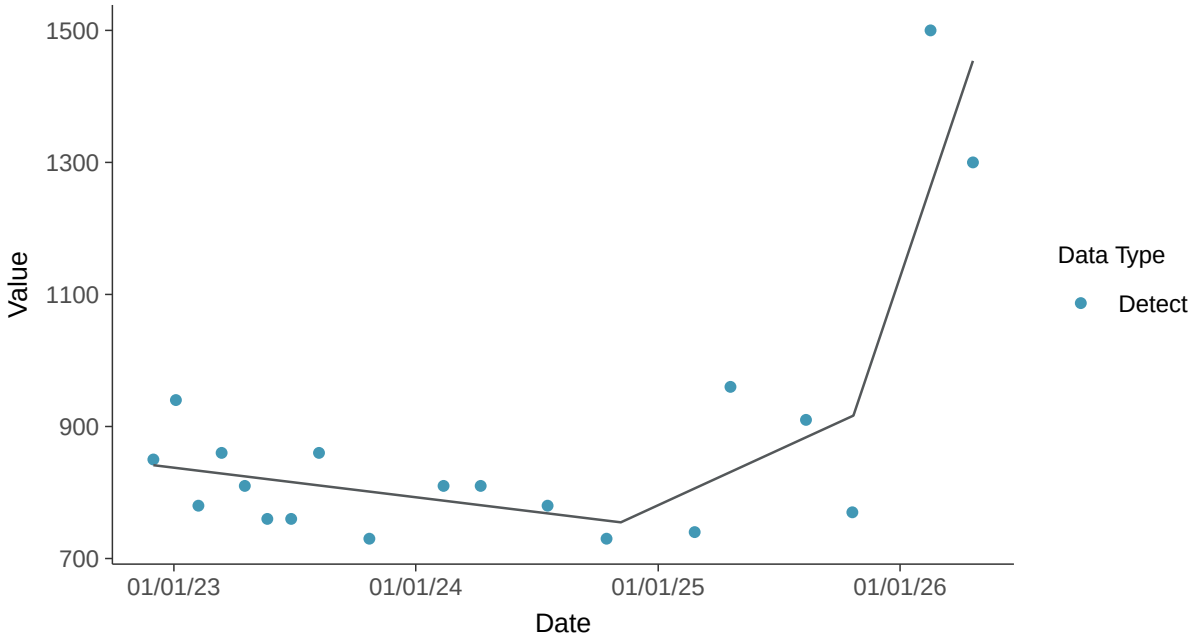
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-31 (mg/L)



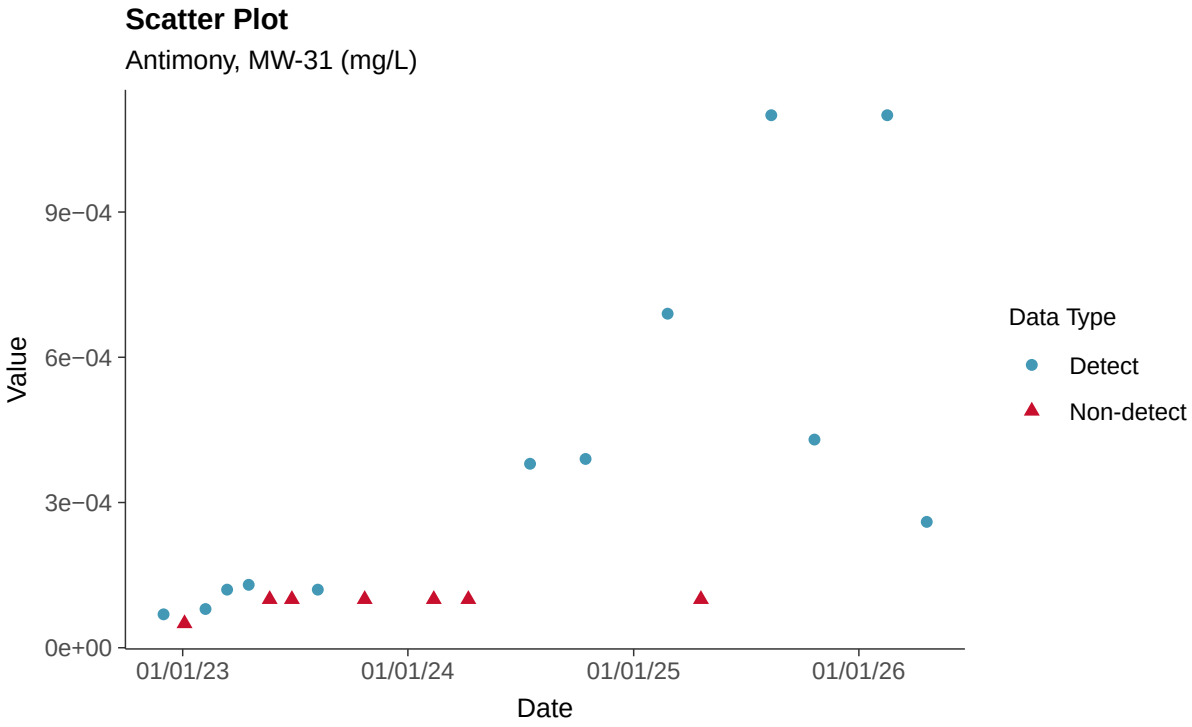
Trend Regression: Piecewise Linear-Linear-Linear

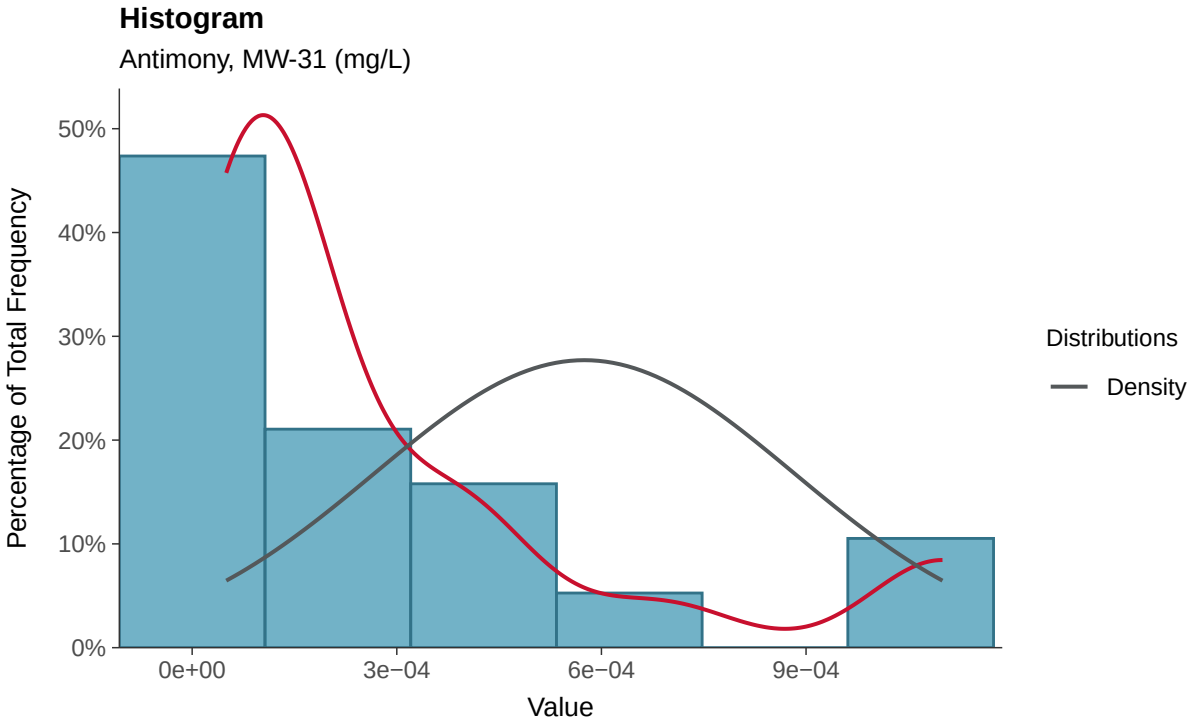
Total Dissolved Solids, MW-31 (mg/L)



Appendix IV: Antimony, MW-31

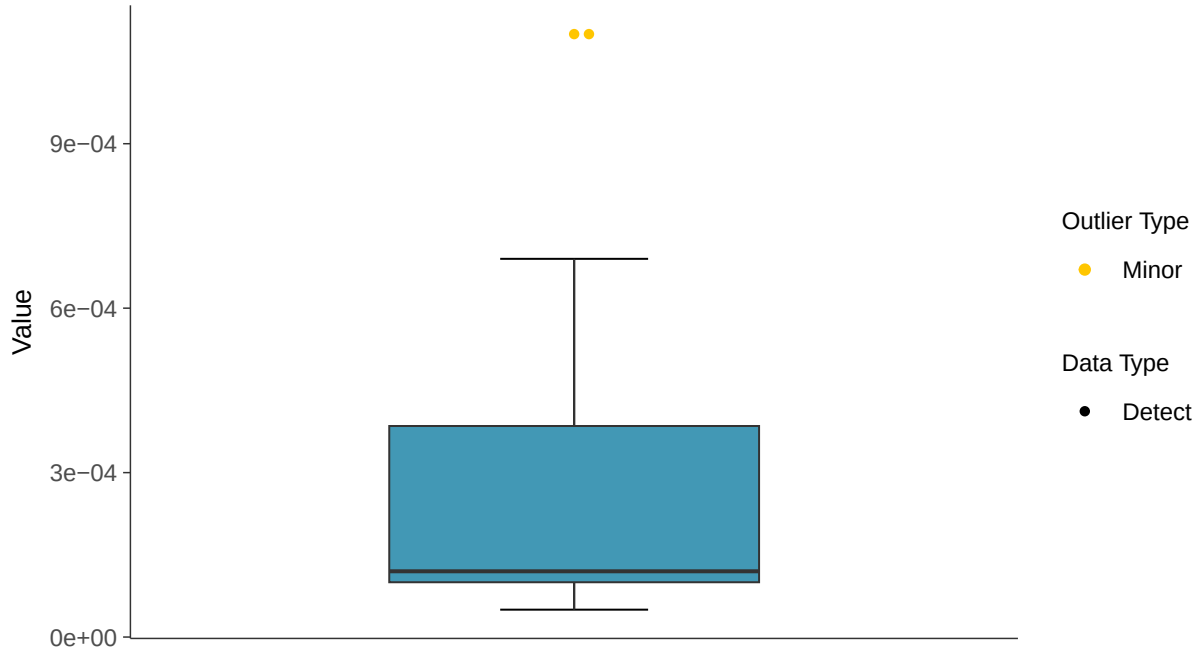
ID: 41_1_4_101





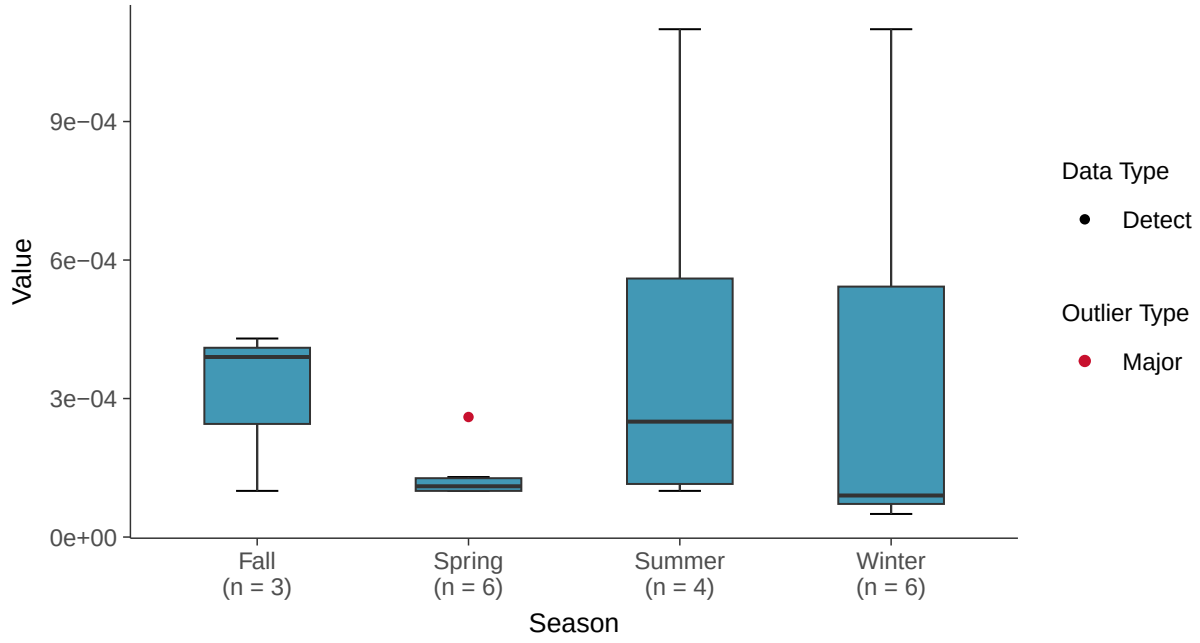
Boxplot

Antimony, MW-31 (mg/L)



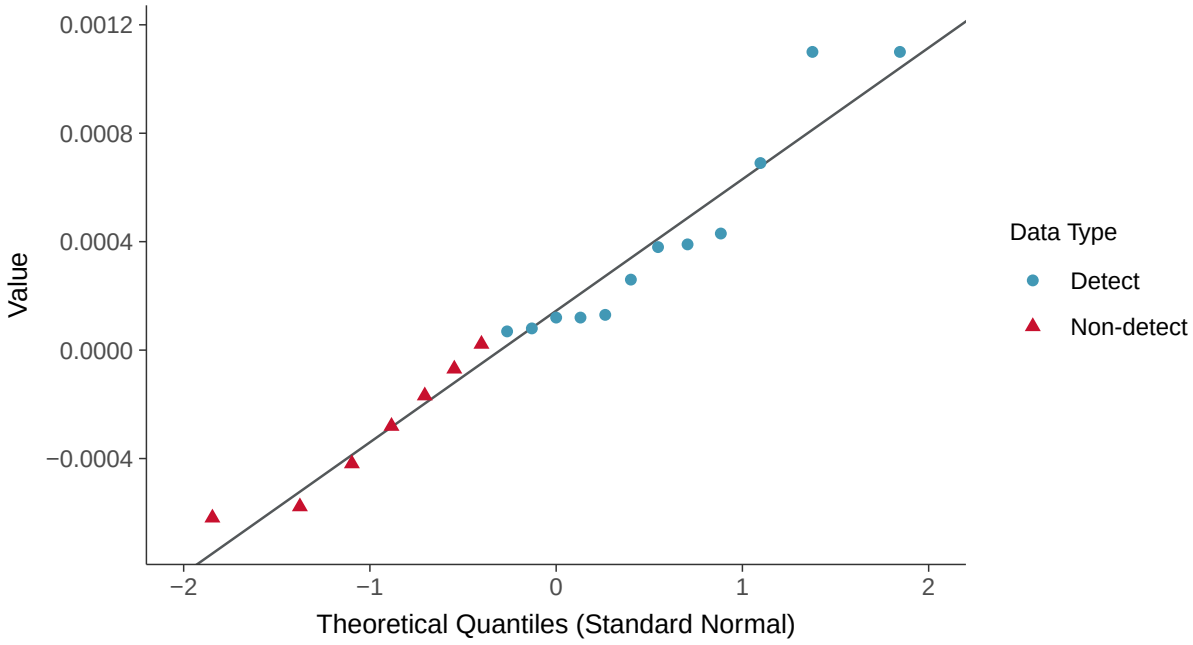
Boxplot by Season

Antimony, MW-31 (mg/L)



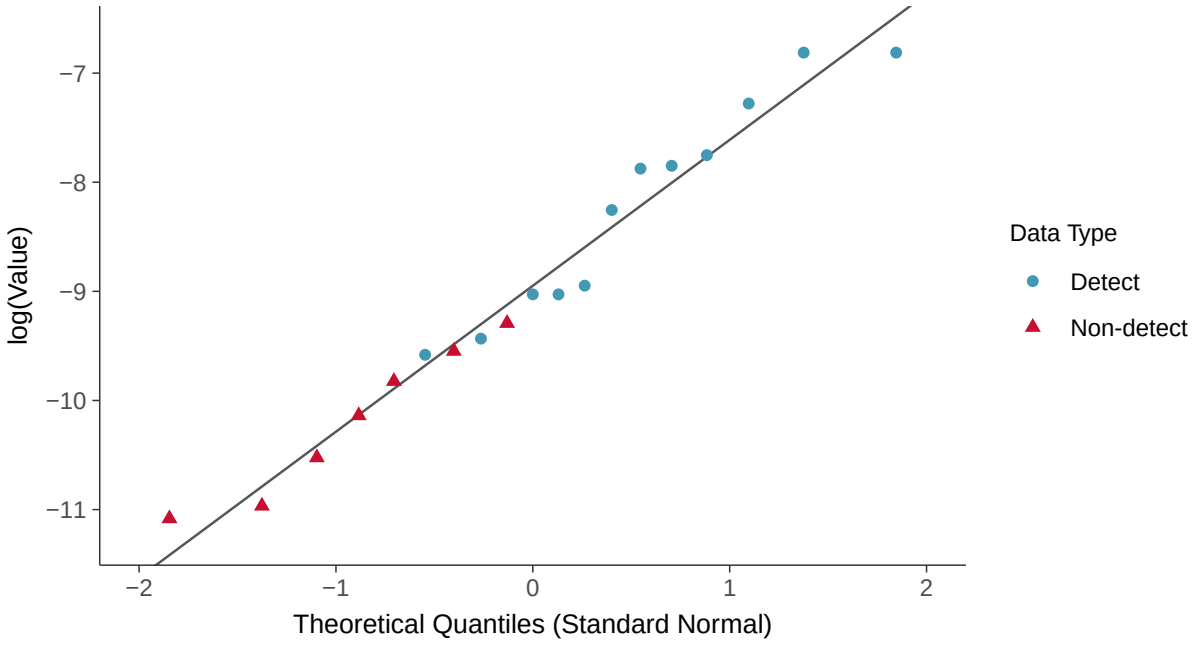
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-31 (mg/L)



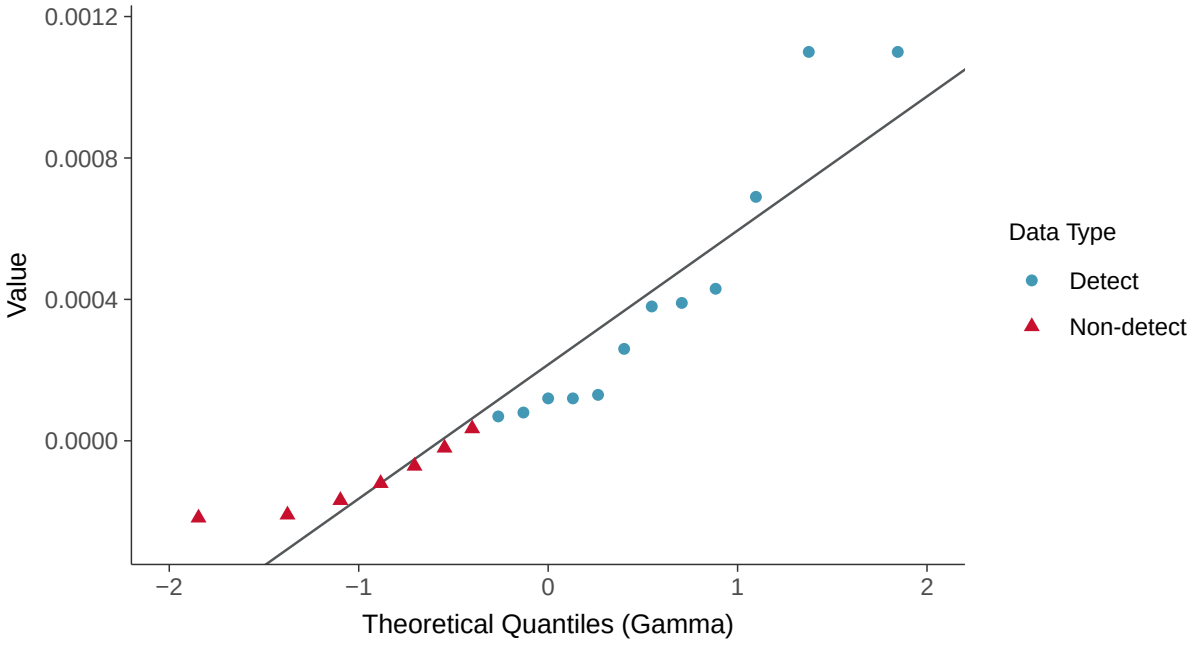
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-31 (mg/L)



Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-31 (mg/L)

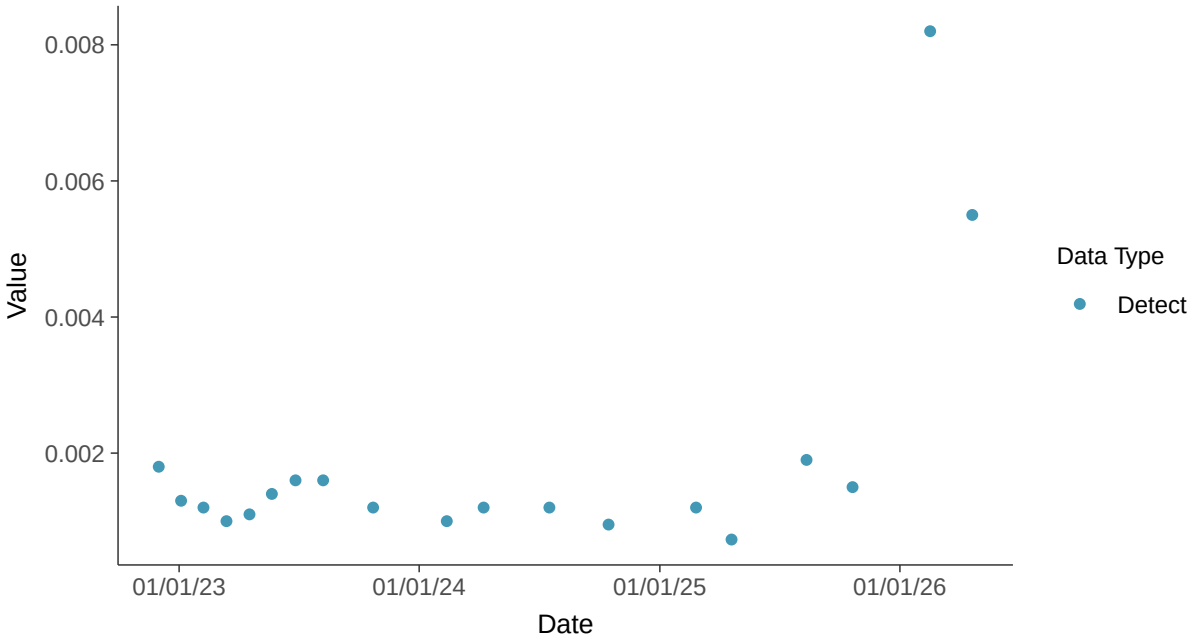


Appendix IV: Arsenic, MW-31

ID: 41_1_4_102

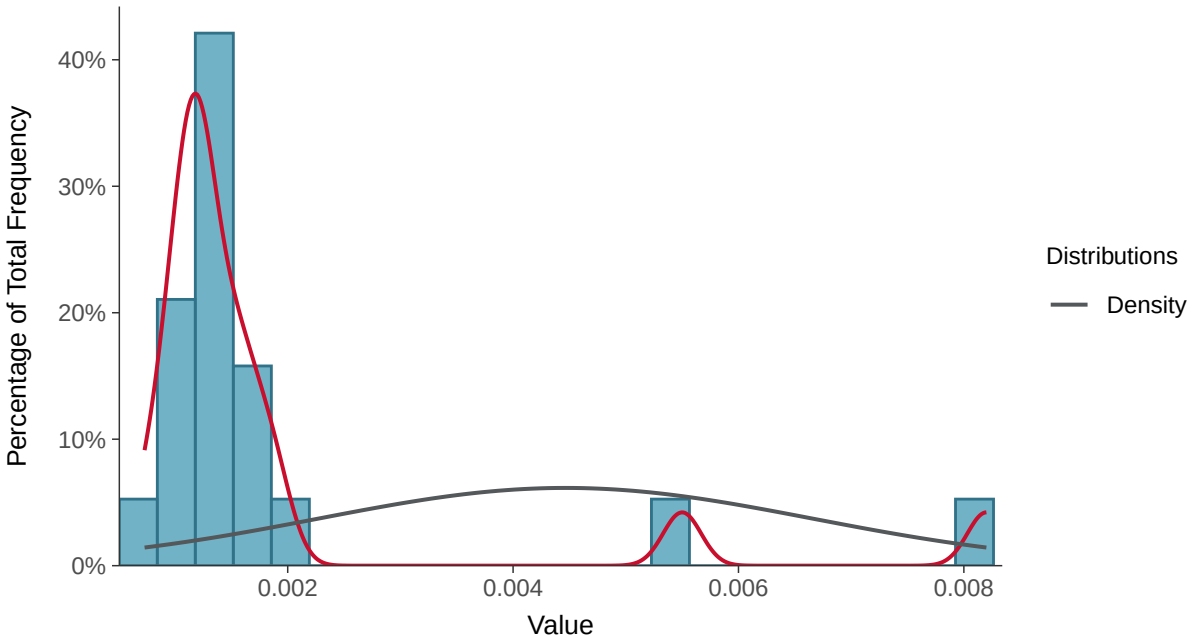
Scatter Plot

Arsenic, MW-31 (mg/L)



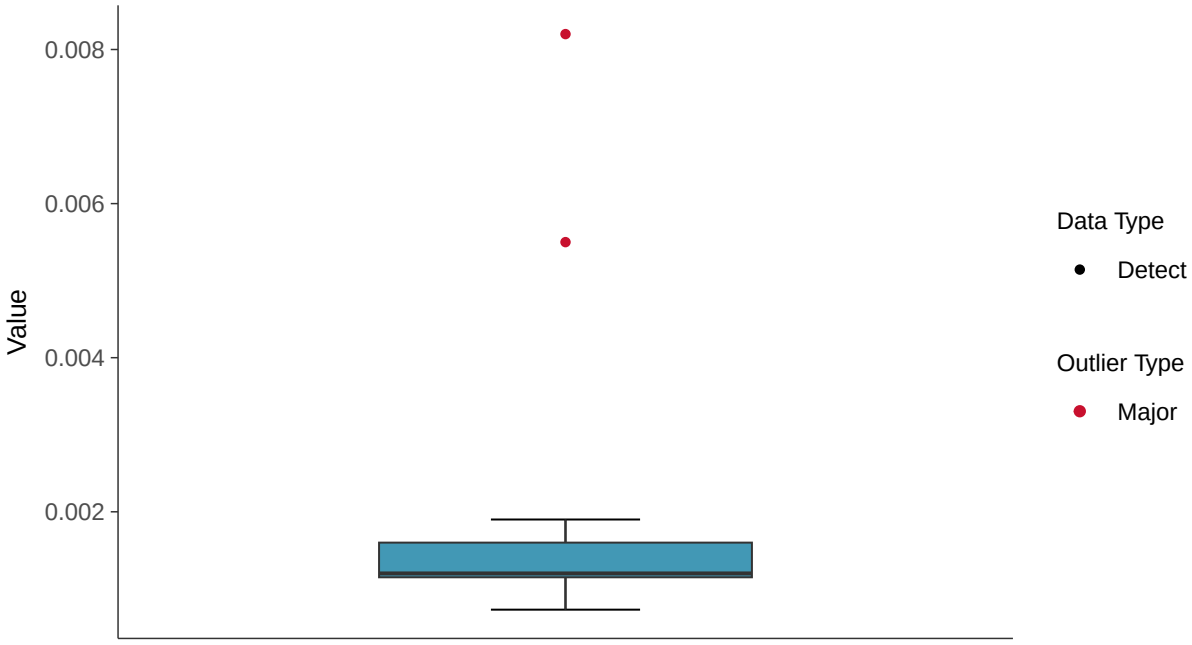
Histogram

Arsenic, MW-31 (mg/L)



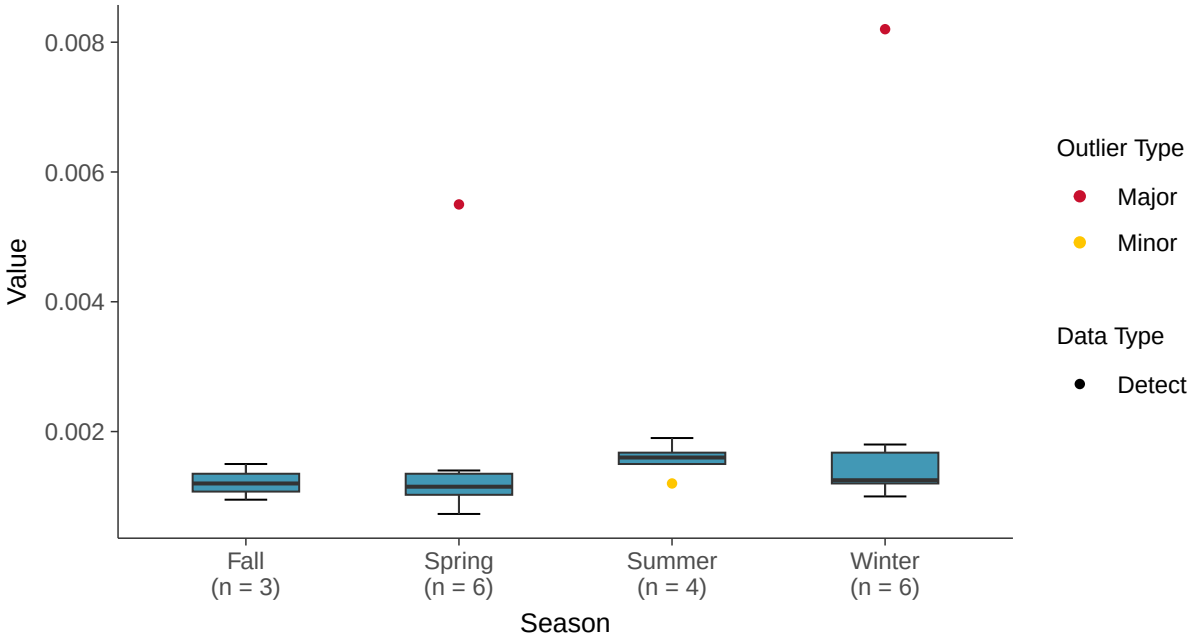
Boxplot

Arsenic, MW-31 (mg/L)



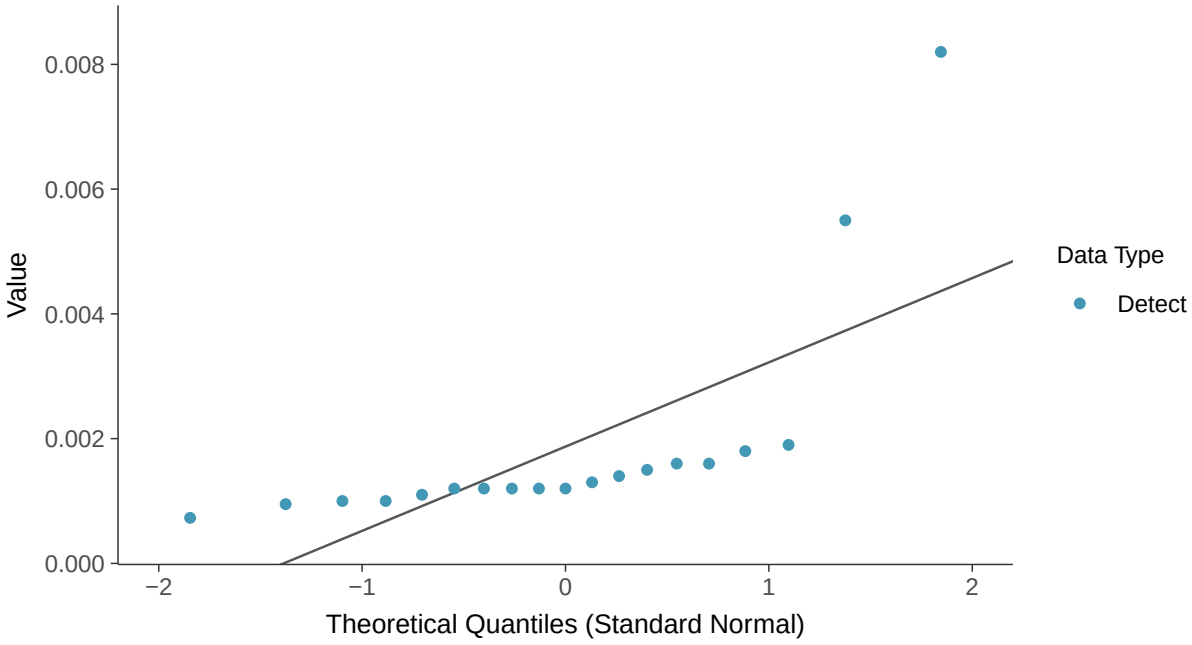
Boxplot by Season

Arsenic, MW-31 (mg/L)



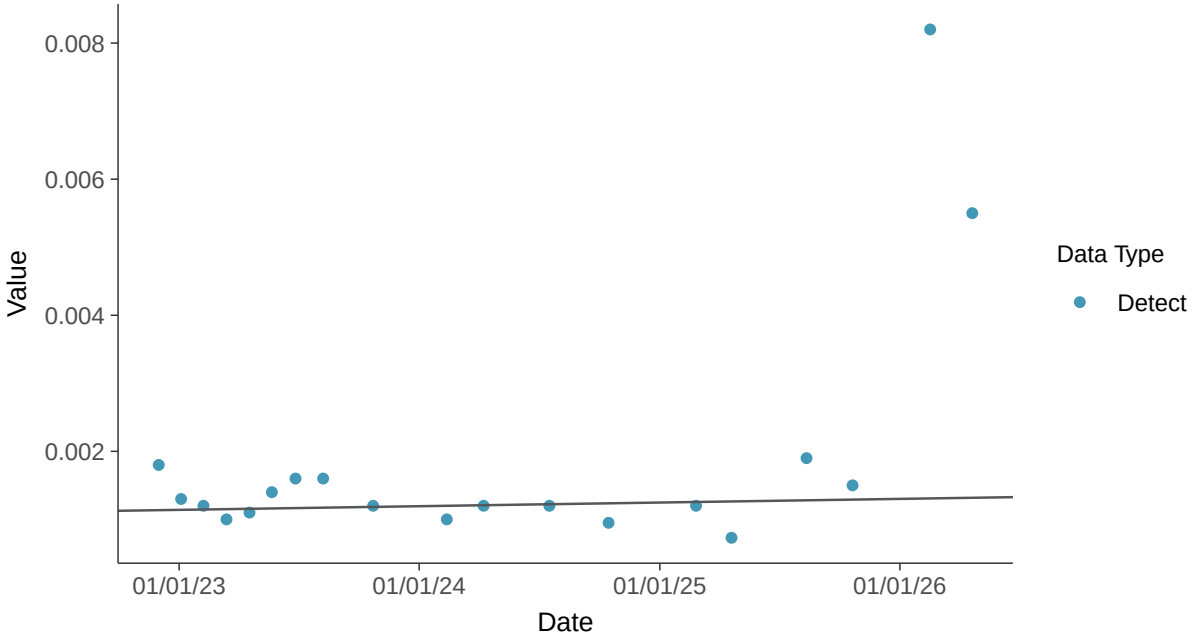
Normal Q-Q plot

Arsenic, MW-31 (mg/L)



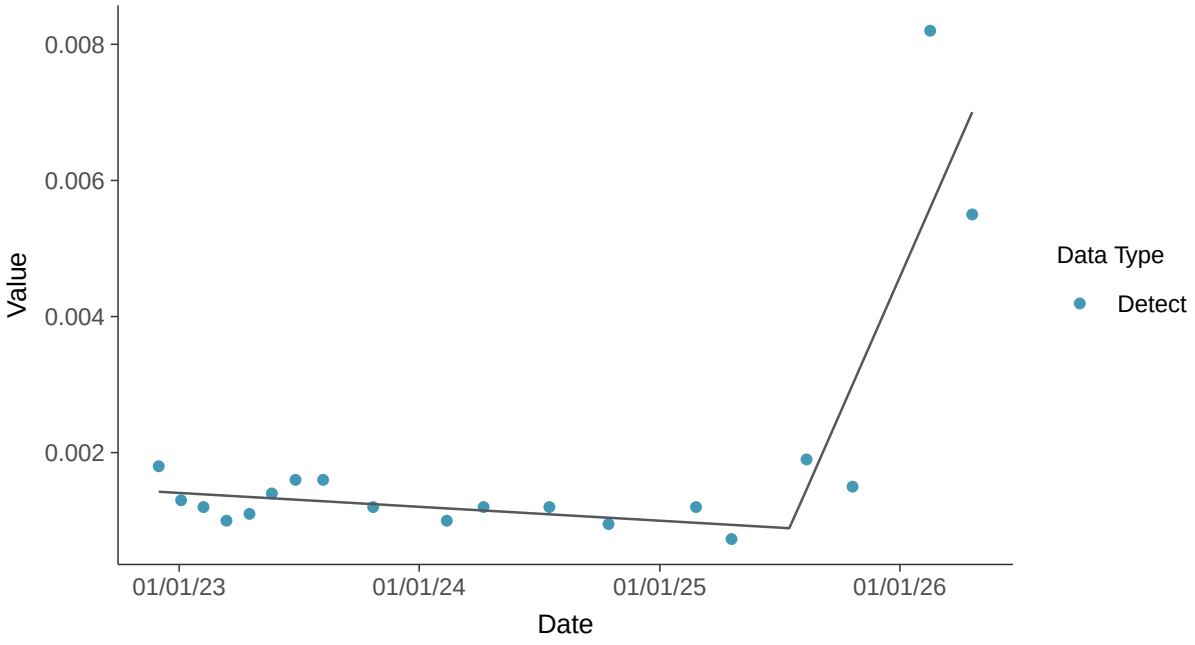
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-31 (mg/L)



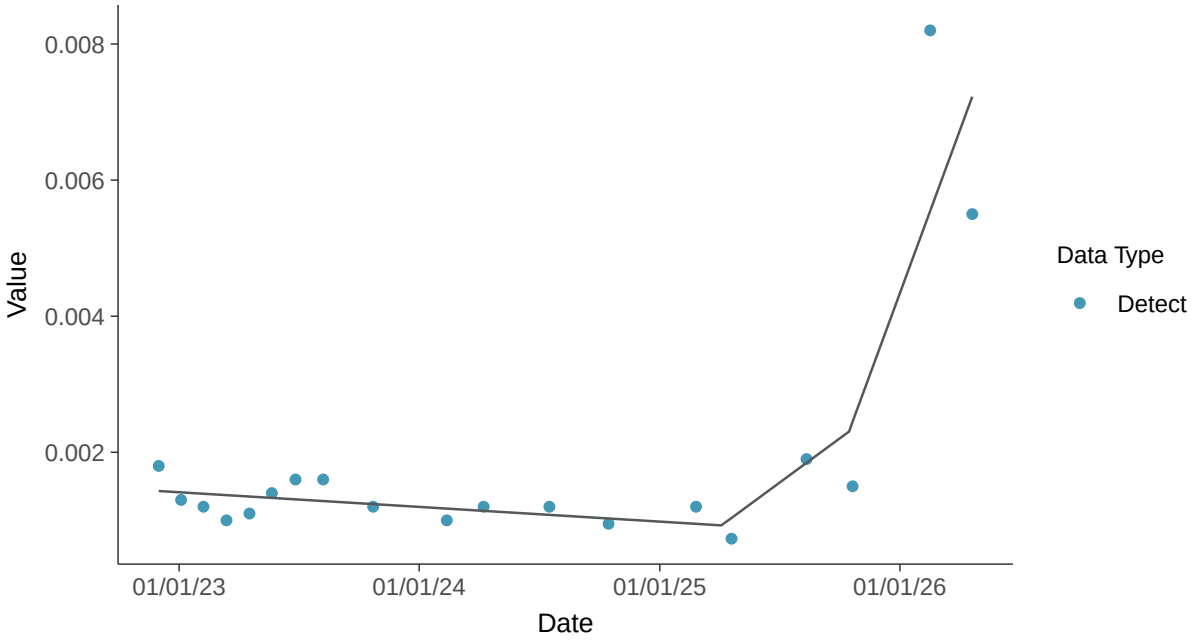
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-31 (mg/L)

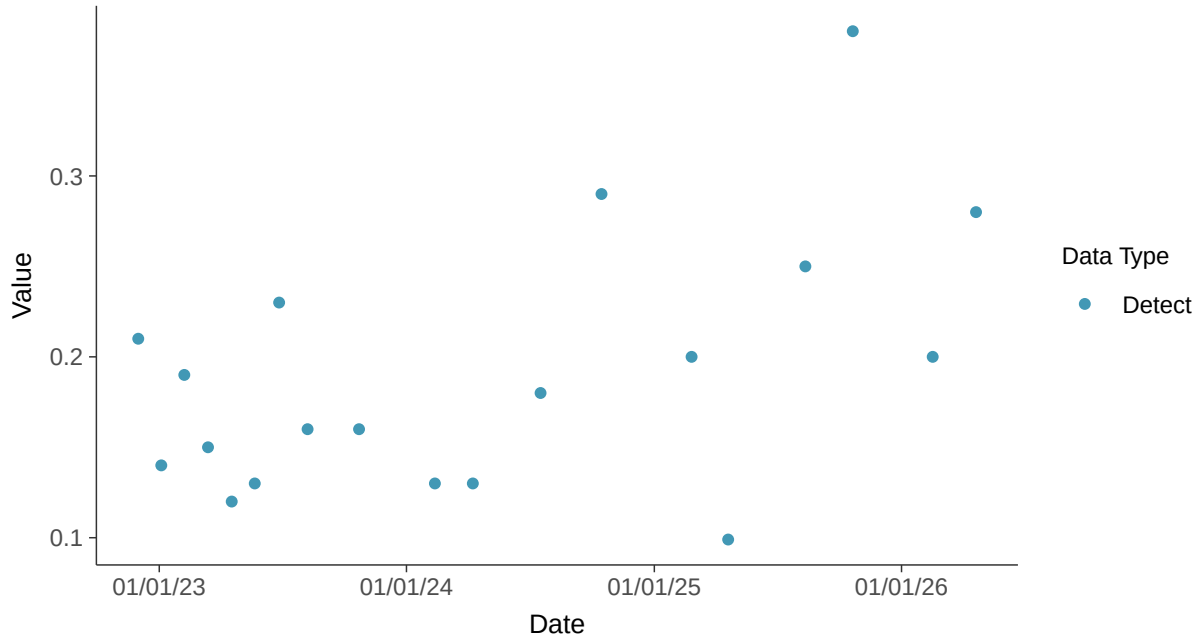


Appendix IV: Barium, MW-31

ID: 41_1_4_103

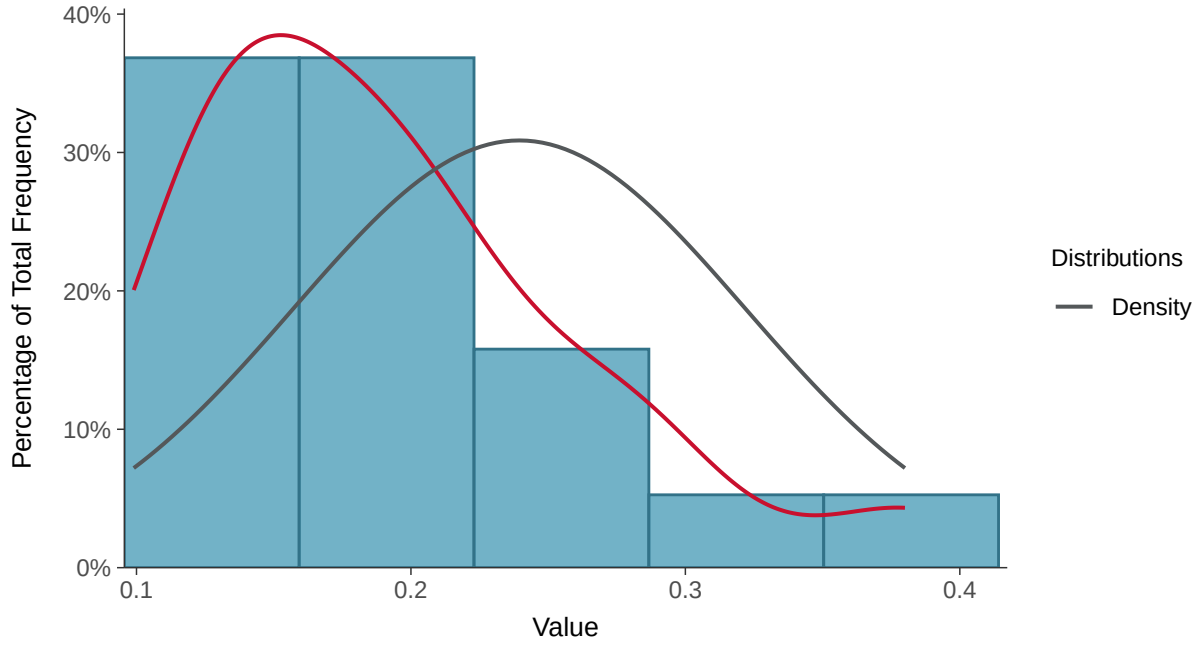
Scatter Plot

Barium, MW-31 (mg/L)



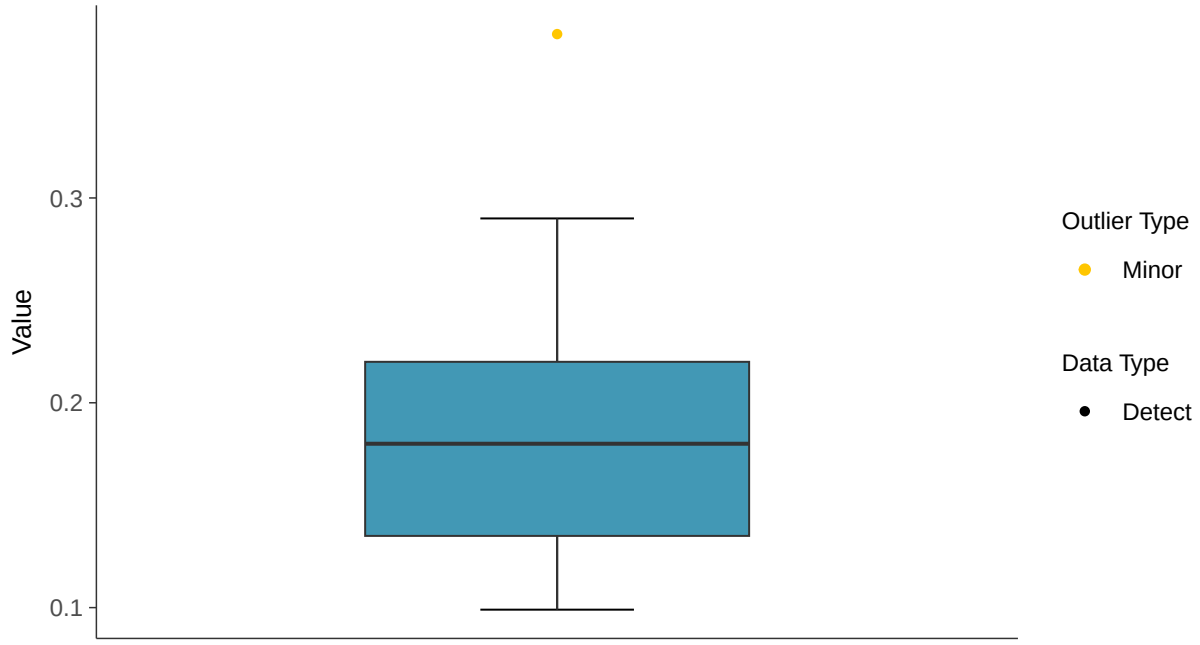
Histogram

Barium, MW-31 (mg/L)



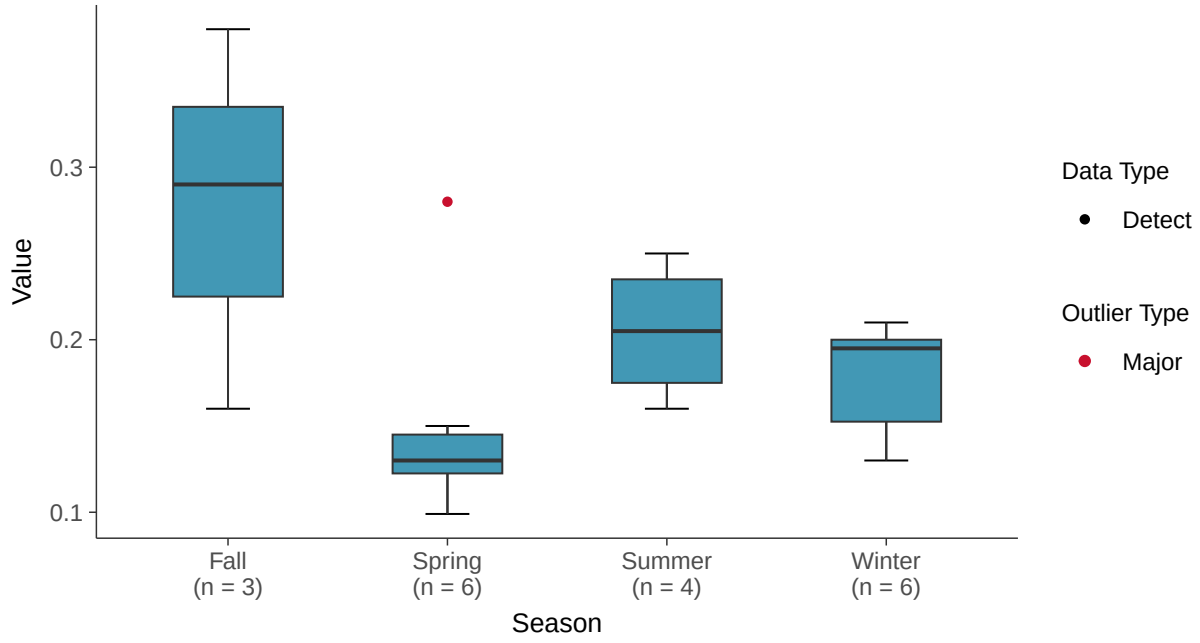
Boxplot

Barium, MW-31 (mg/L)



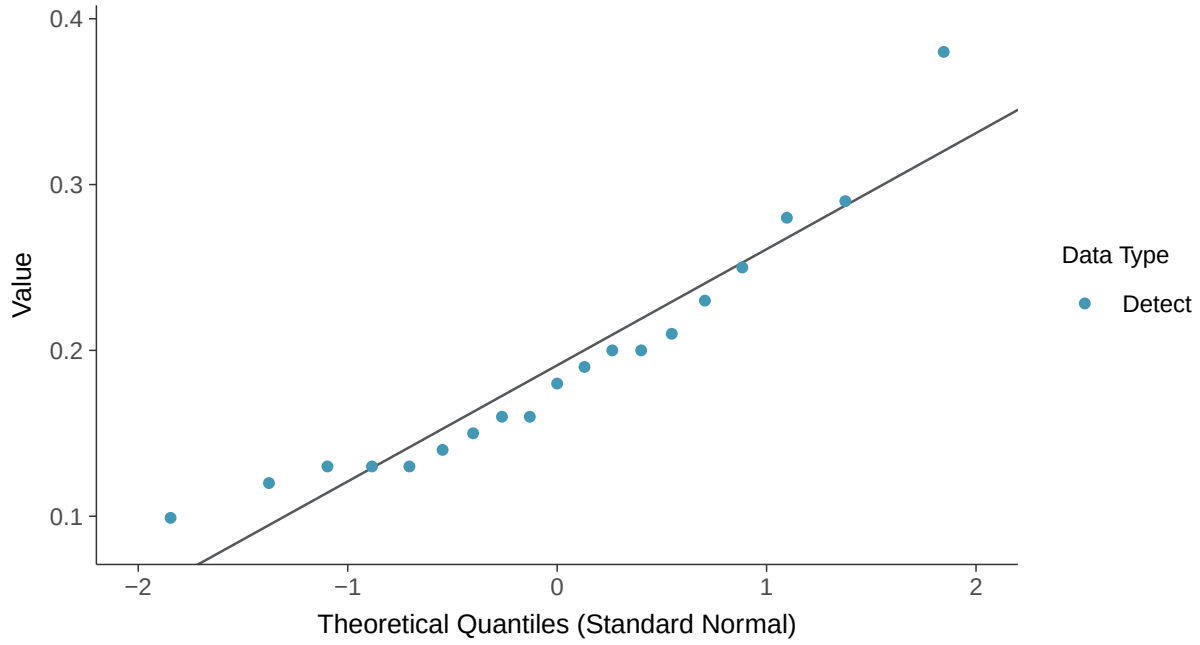
Boxplot by Season

Barium, MW-31 (mg/L)



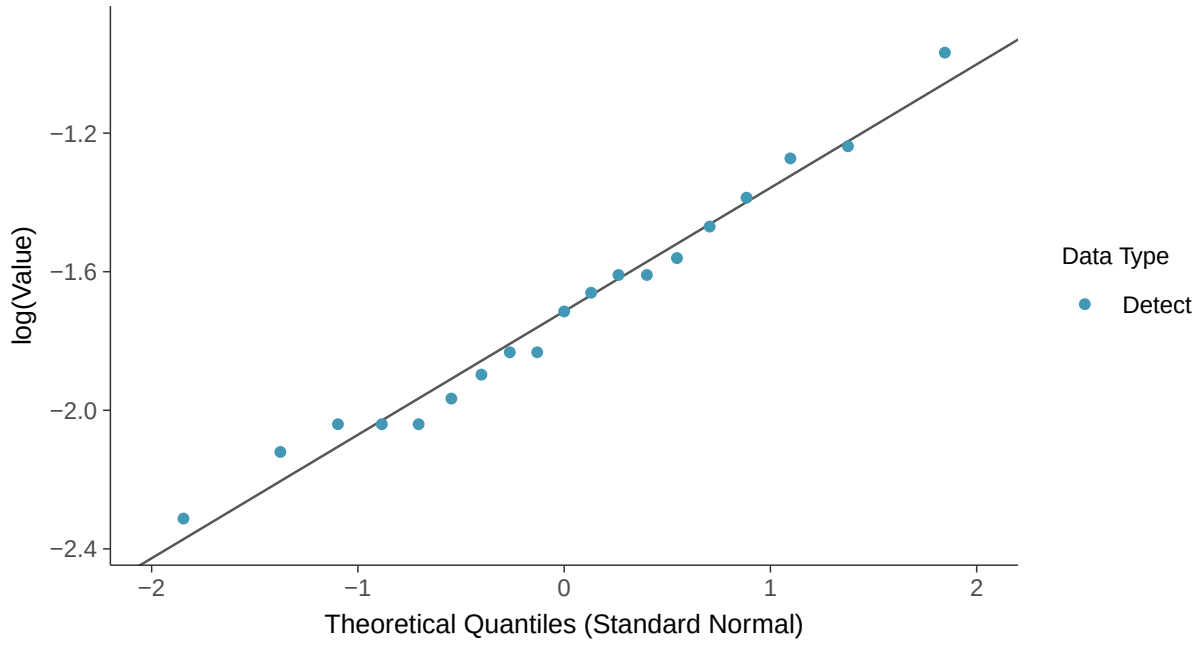
Normal Q-Q plot

Barium, MW-31 (mg/L)



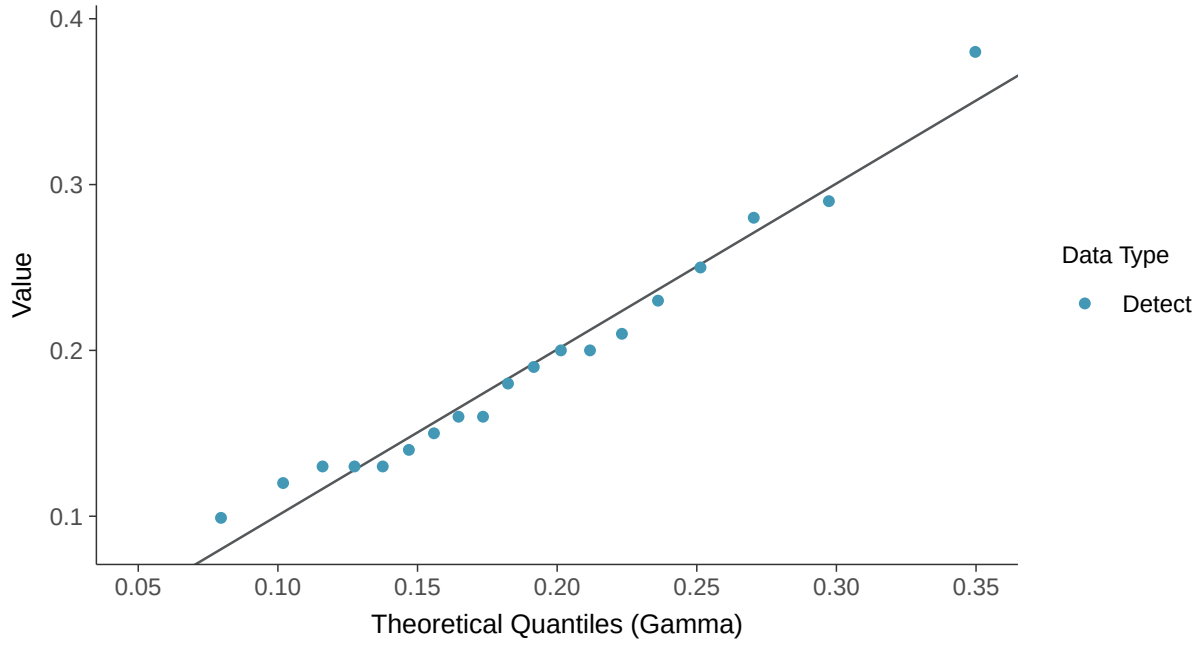
Lognormal Q-Q plot

Barium, MW-31 (mg/L)



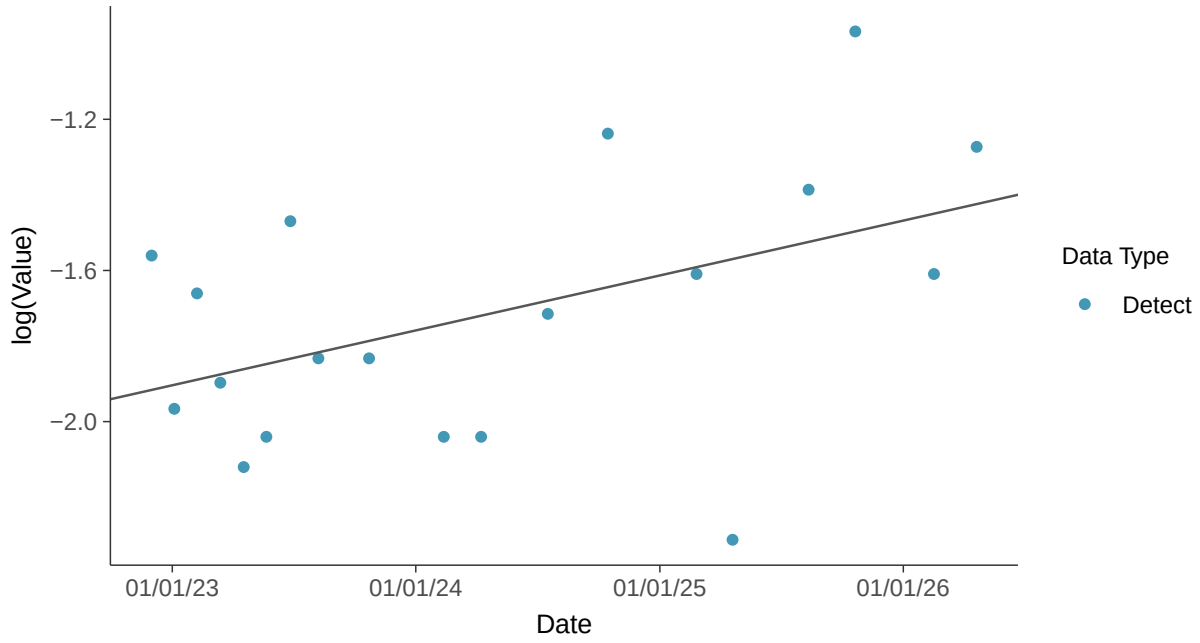
Gamma Q-Q plot

Barium, MW-31 (mg/L)



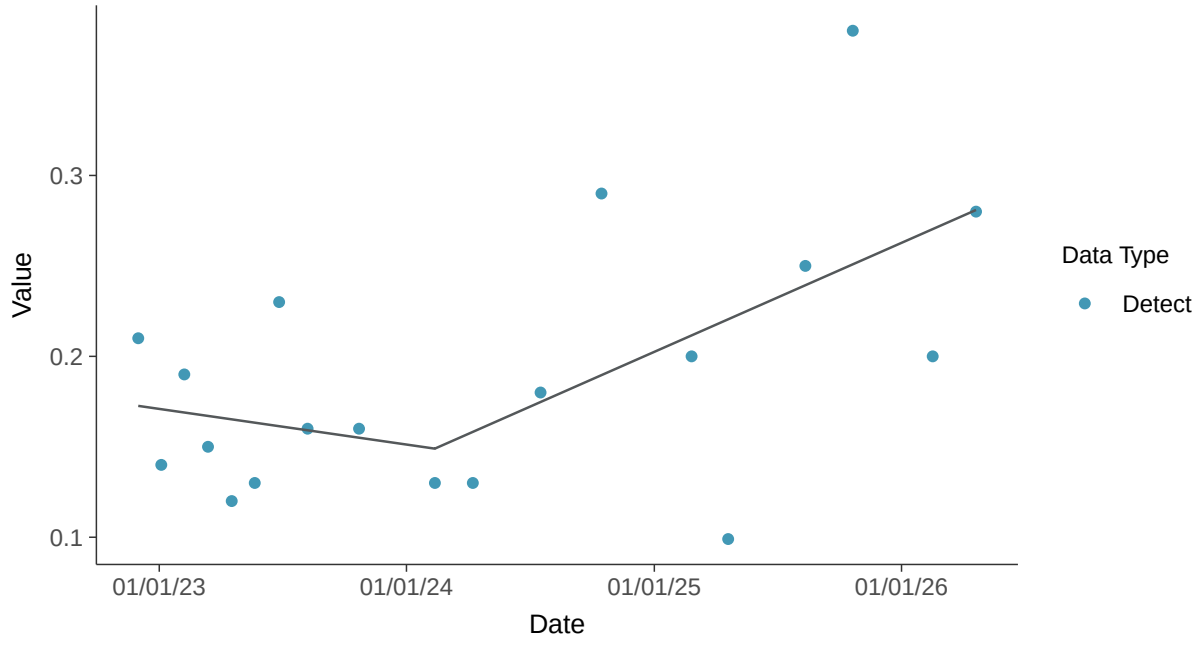
Trend Regression: Lognormal MLE

Barium, MW-31 (mg/L)



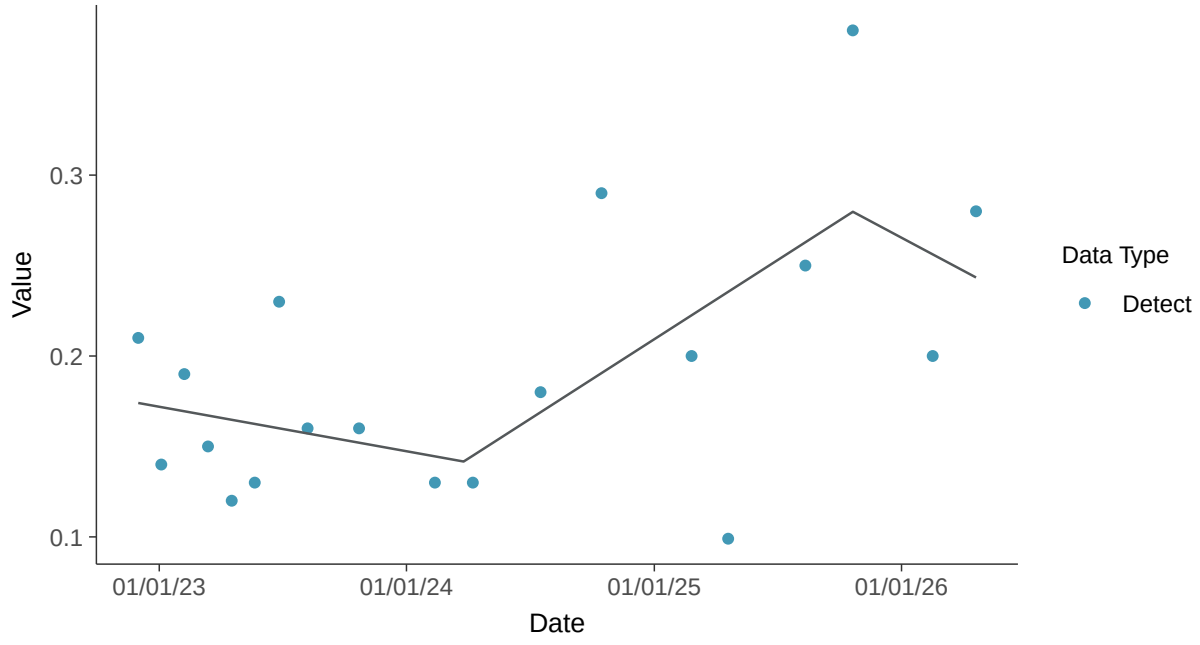
Trend Regression: Piecewise Linear-Linear

Barium, MW-31 (mg/L)



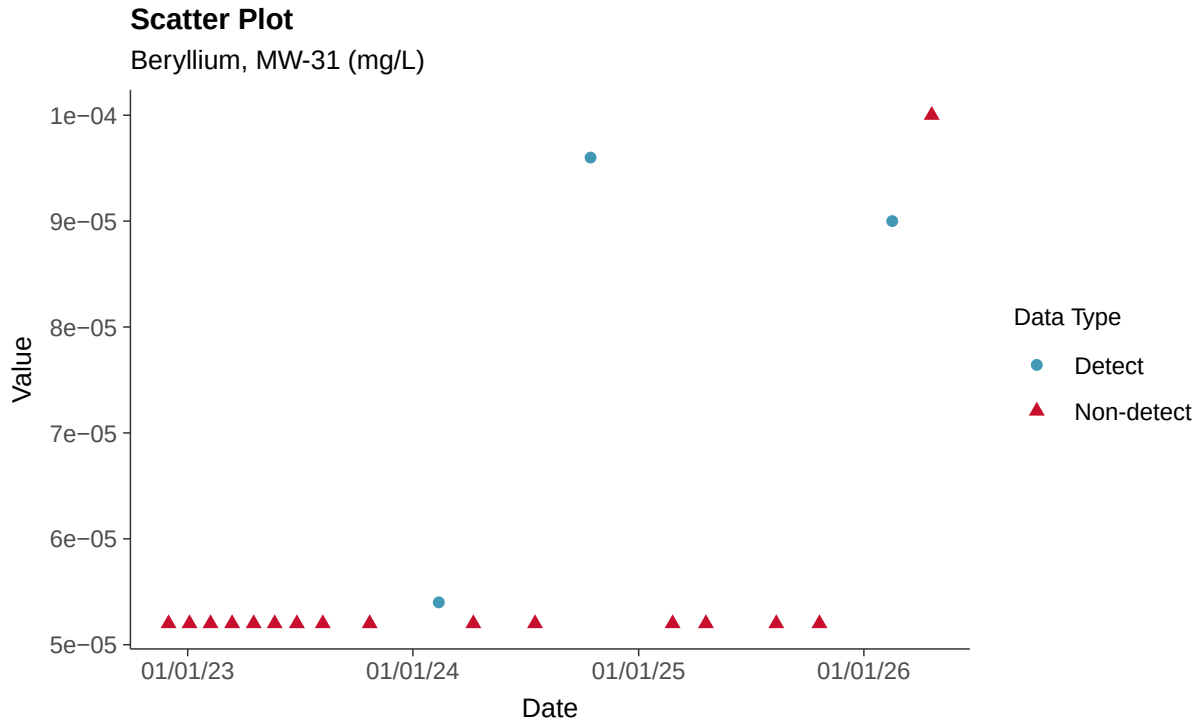
Trend Regression: Piecewise Linear-Linear-Linear

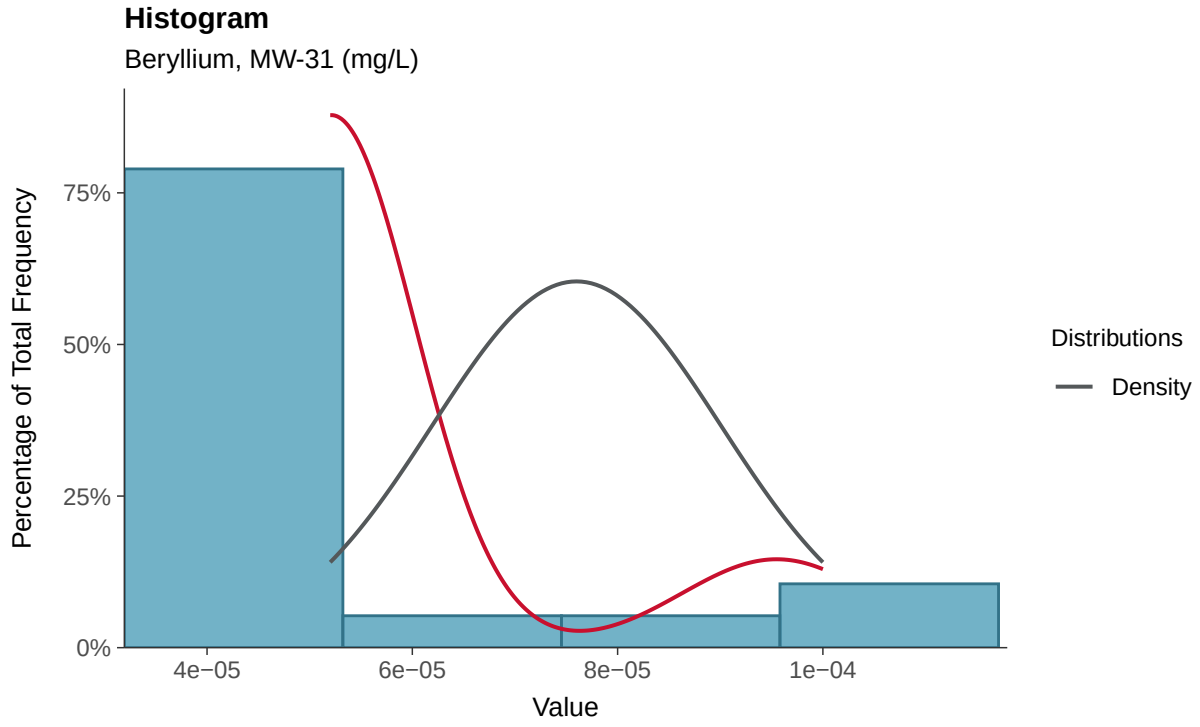
Barium, MW-31 (mg/L)



Appendix IV: Beryllium, MW-31

ID: 41_1_4_104



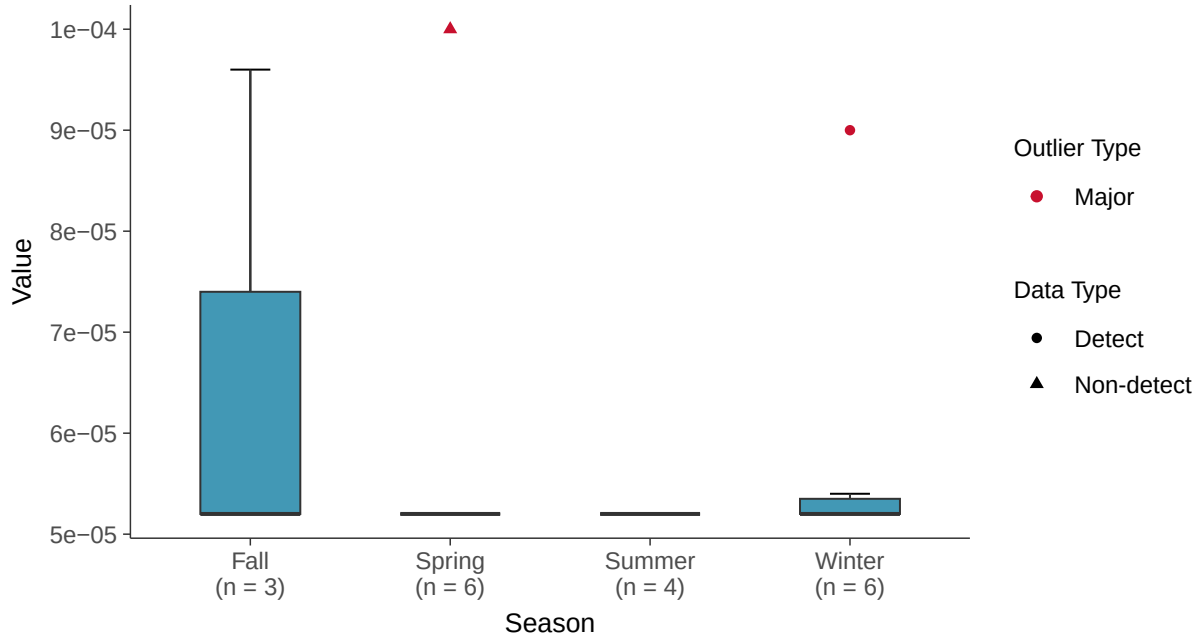


Boxplot

Beryllium, MW-31 (mg/L)

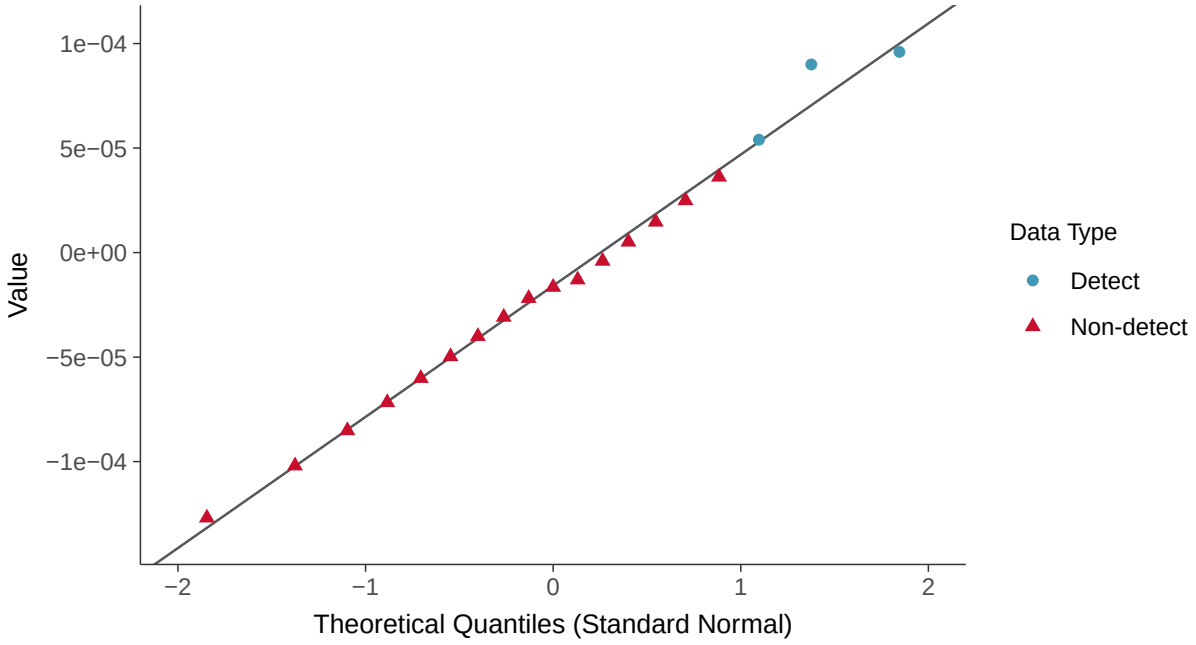
Boxplot by Season

Beryllium, MW-31 (mg/L)



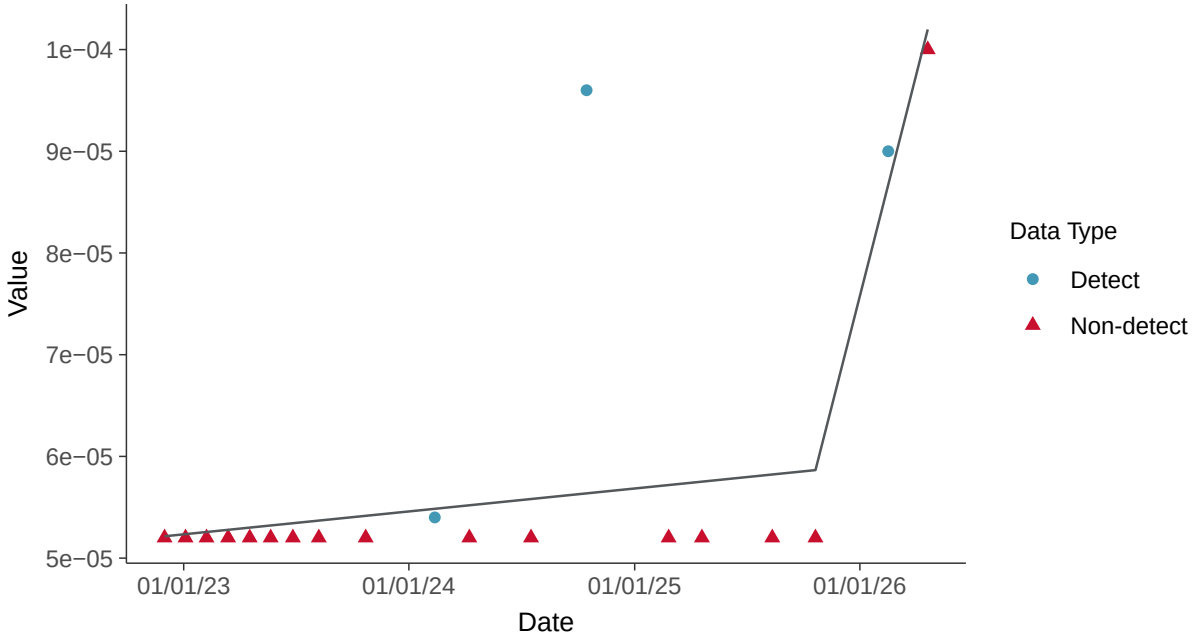
Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-31 (mg/L)



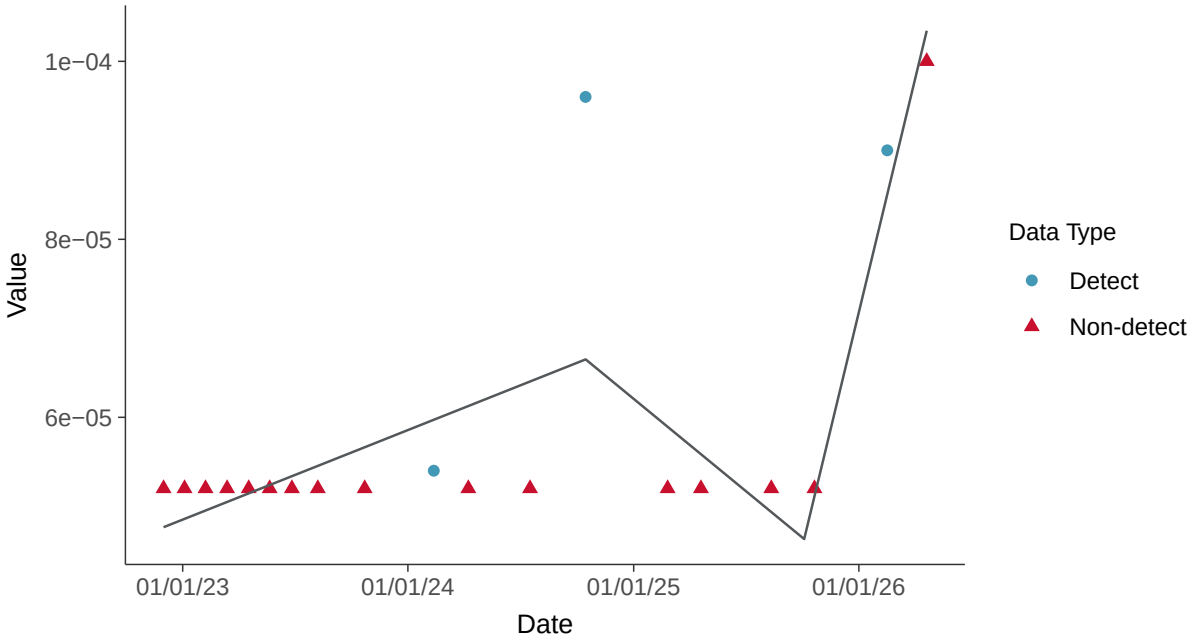
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-31 (mg/L)



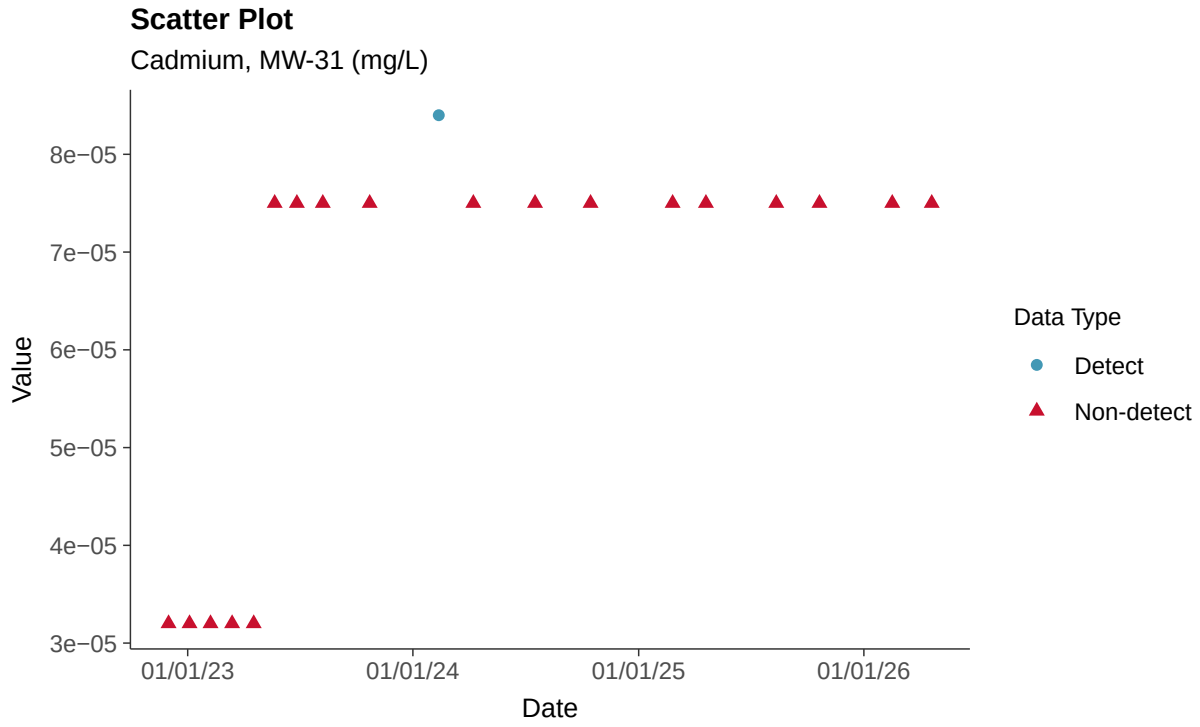
Trend Regression: Piecewise Linear-Linear-Linear

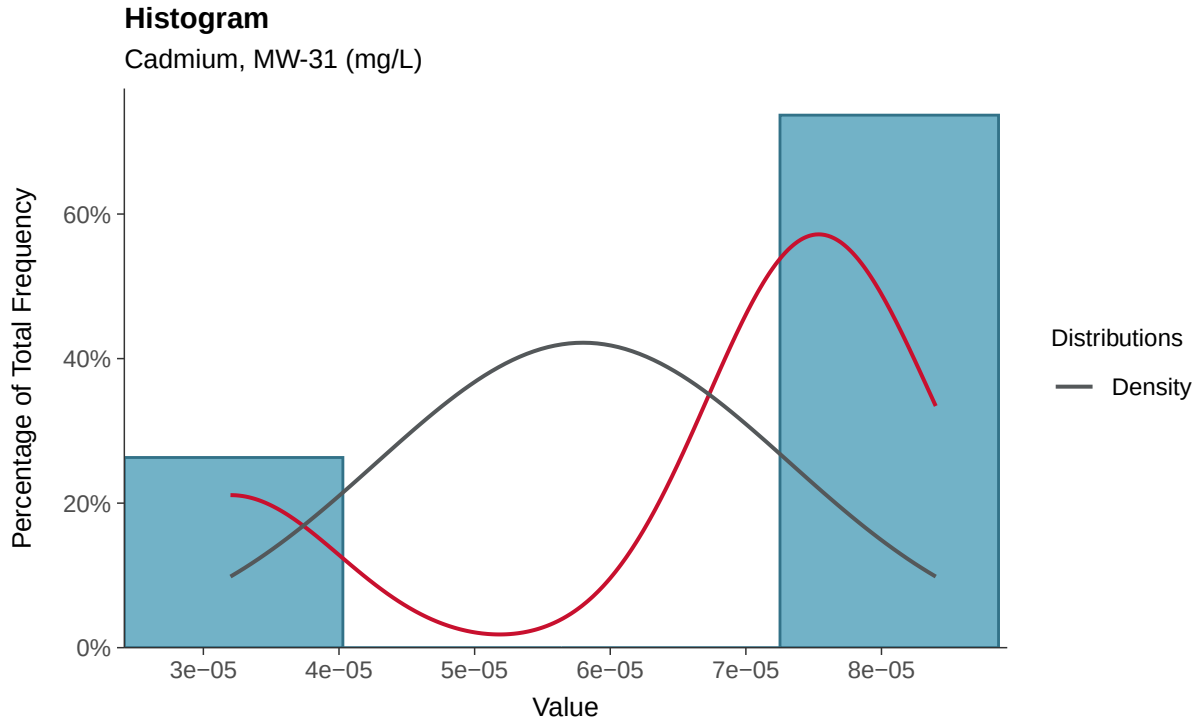
Beryllium, MW-31 (mg/L)



Appendix IV: Cadmium, MW-31

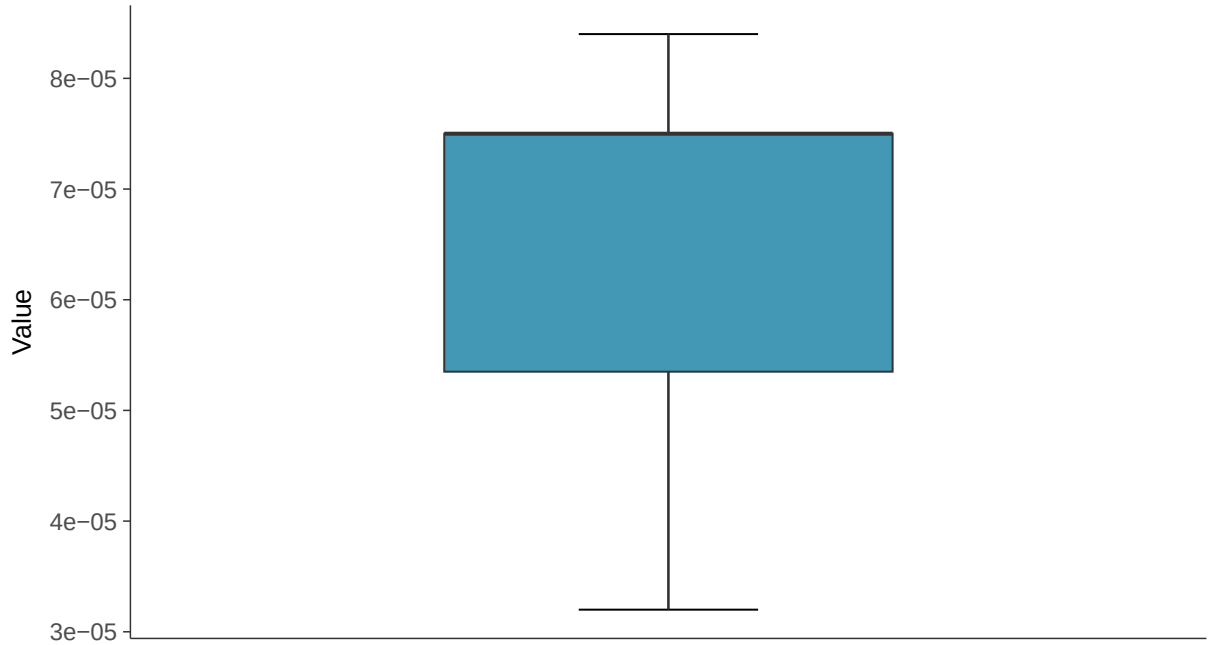
ID: 41_1_4_106





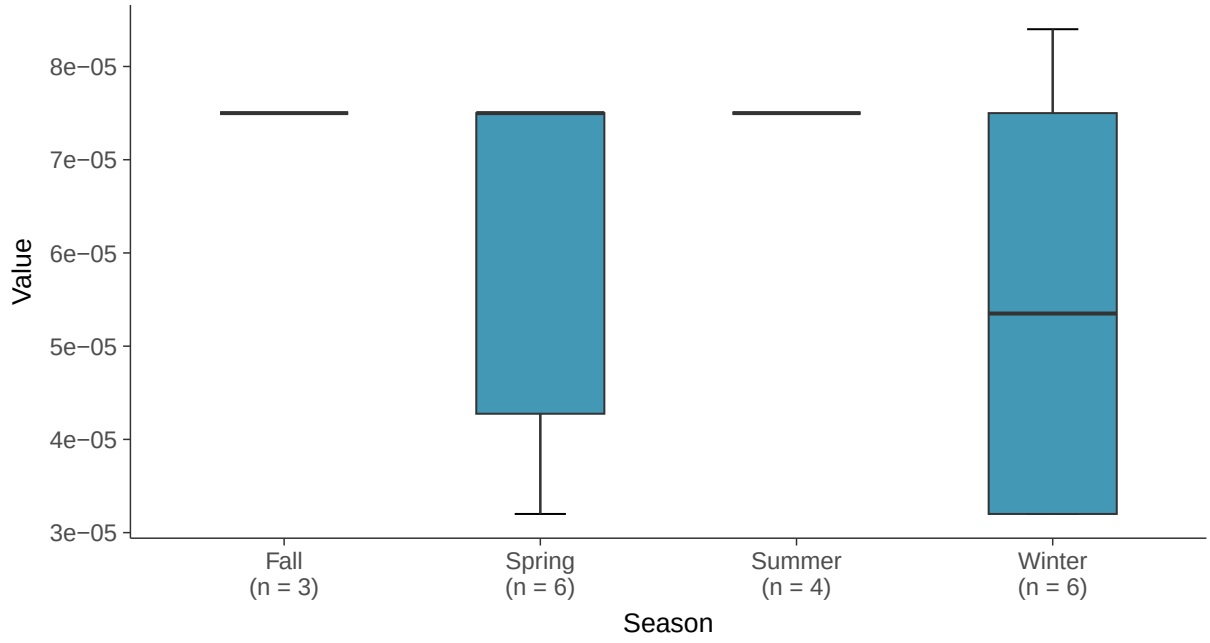
Boxplot

Cadmium, MW-31 (mg/L)



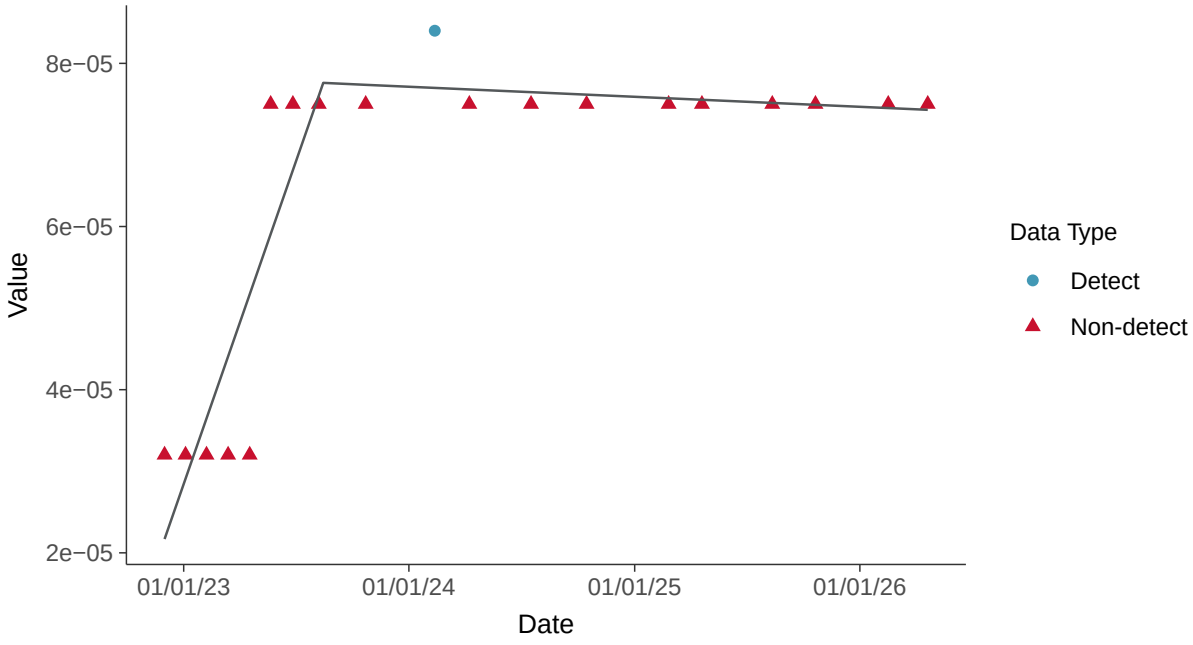
Boxplot by Season

Cadmium, MW-31 (mg/L)



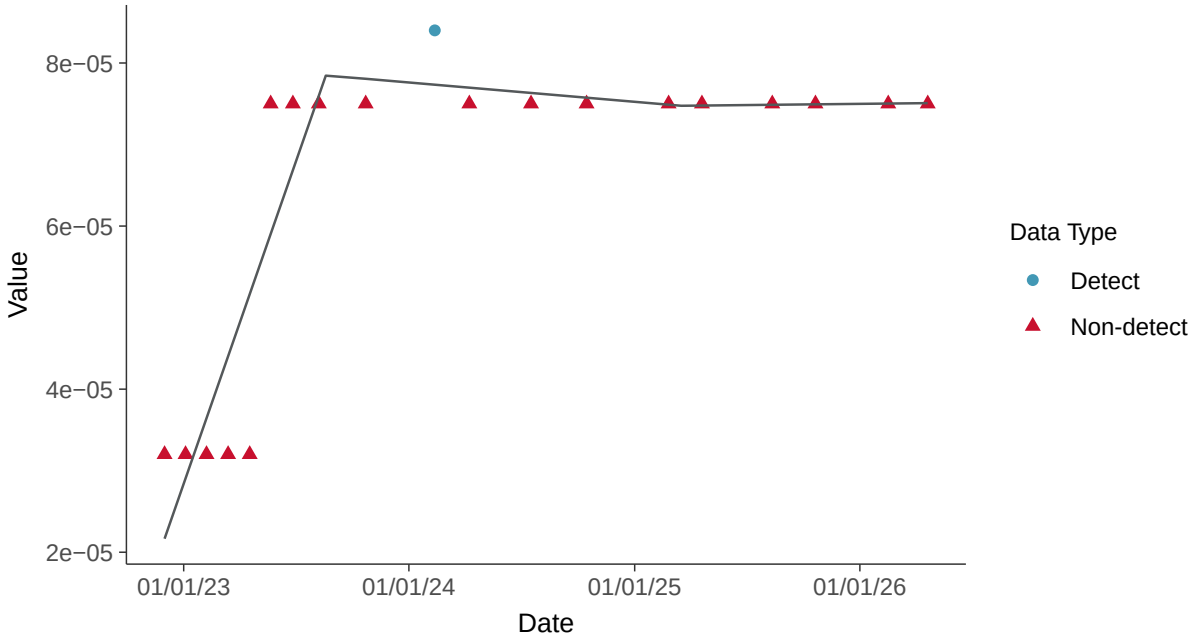
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-31 (mg/L)

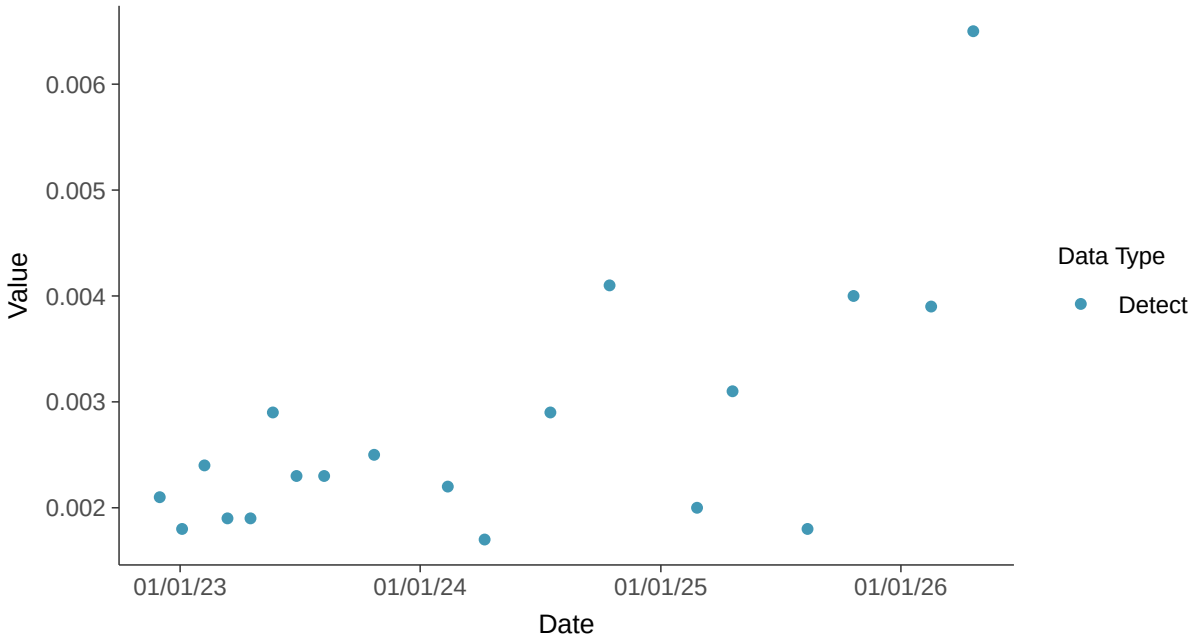


Appendix IV: Chromium, Total, MW-31

ID: 41_1_4_109

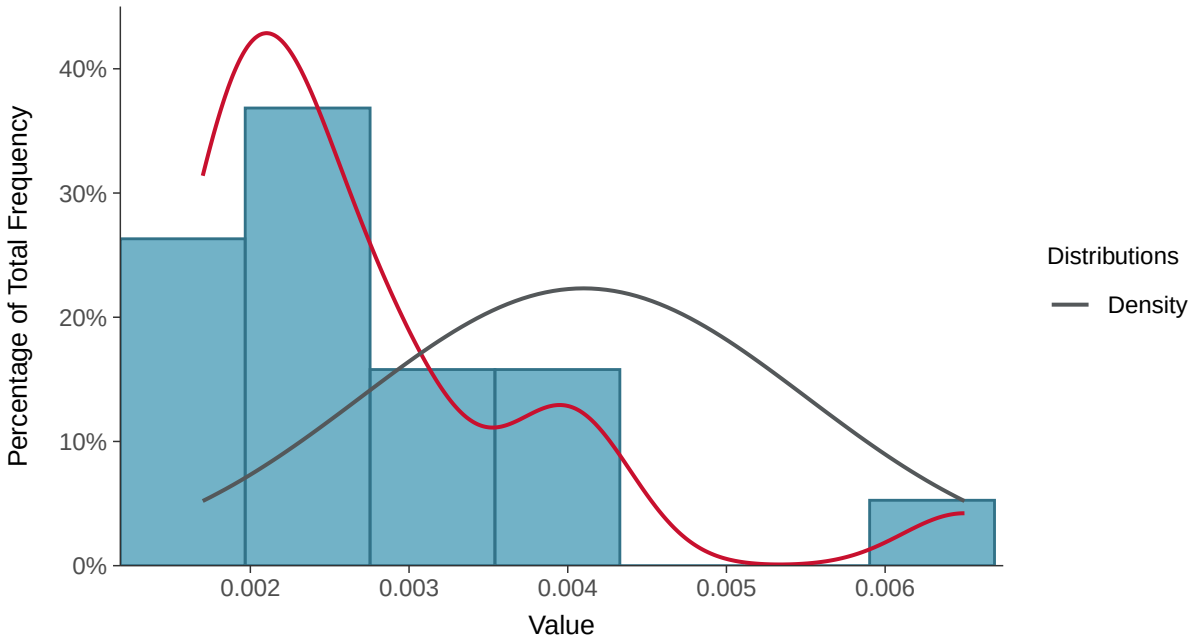
Scatter Plot

Chromium, Total, MW-31 (mg/L)



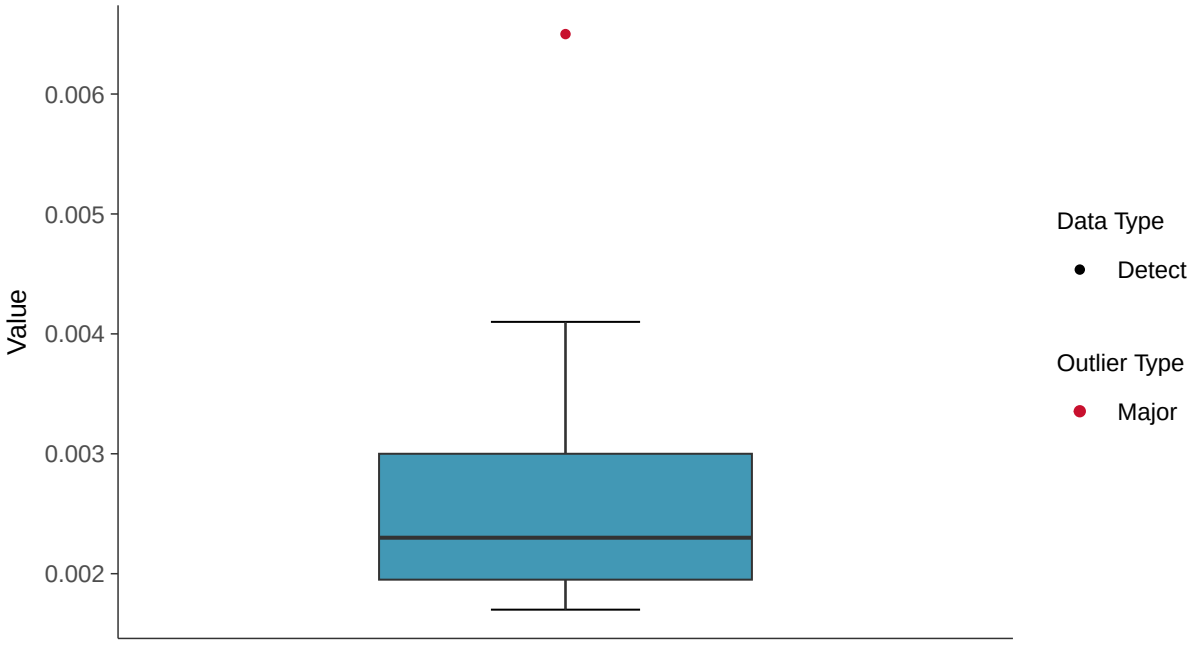
Histogram

Chromium, Total, MW-31 (mg/L)



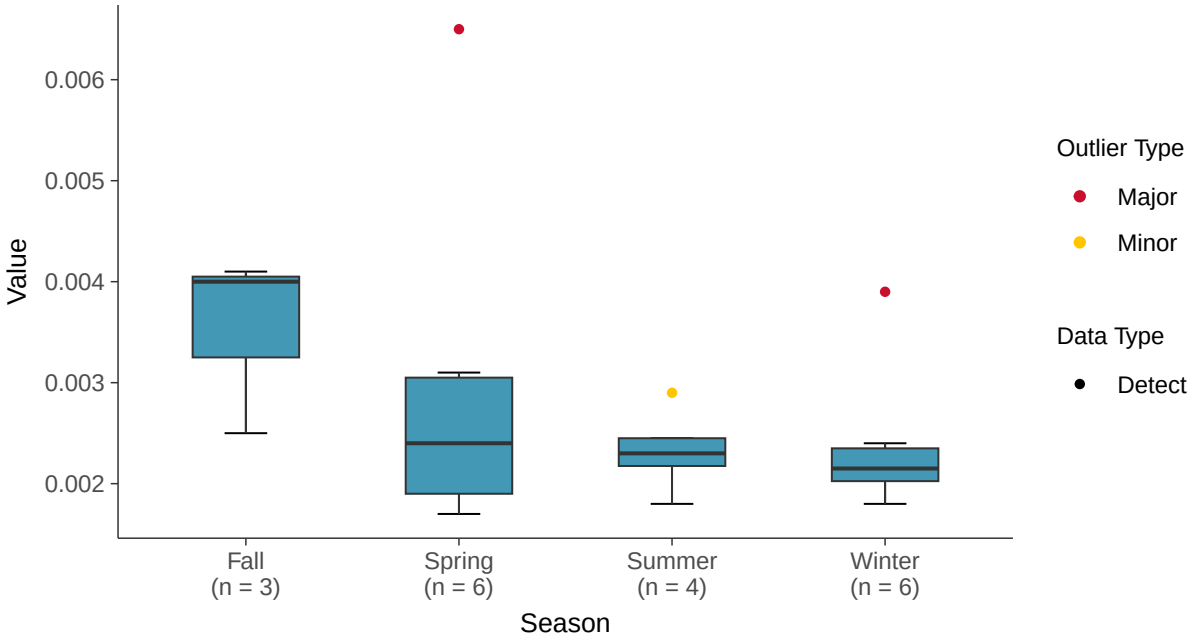
Boxplot

Chromium, Total, MW-31 (mg/L)



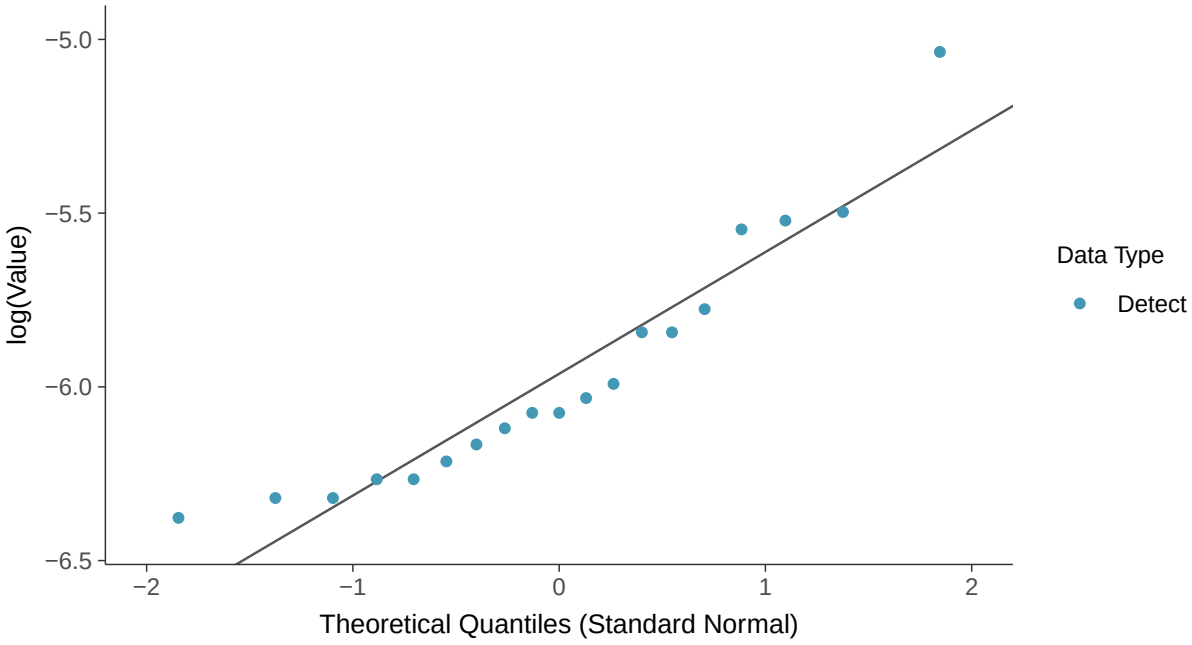
Boxplot by Season

Chromium, Total, MW-31 (mg/L)



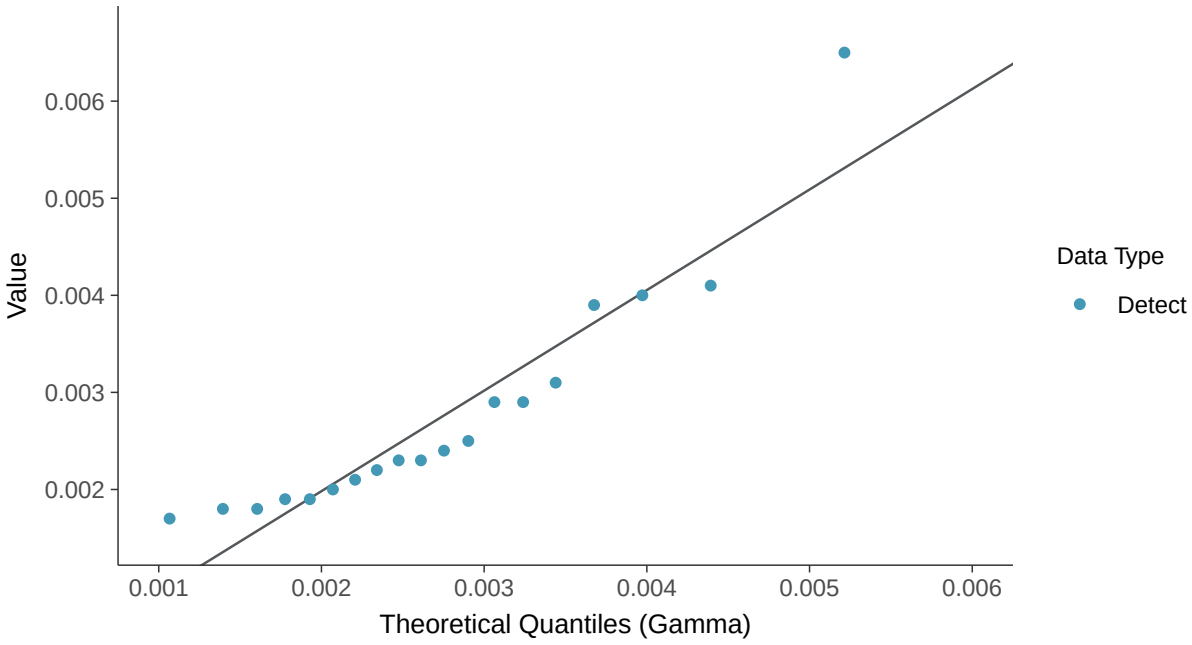
Lognormal Q-Q plot

Chromium, Total, MW-31 (mg/L)



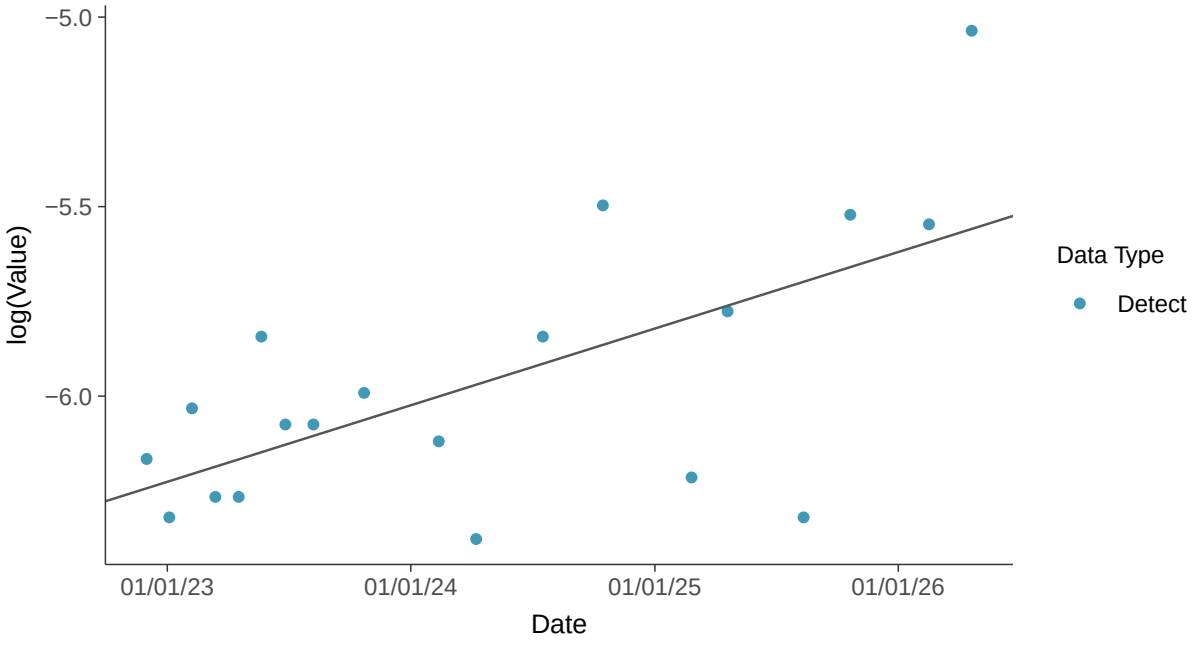
Gamma Q-Q plot

Chromium, Total, MW-31 (mg/L)



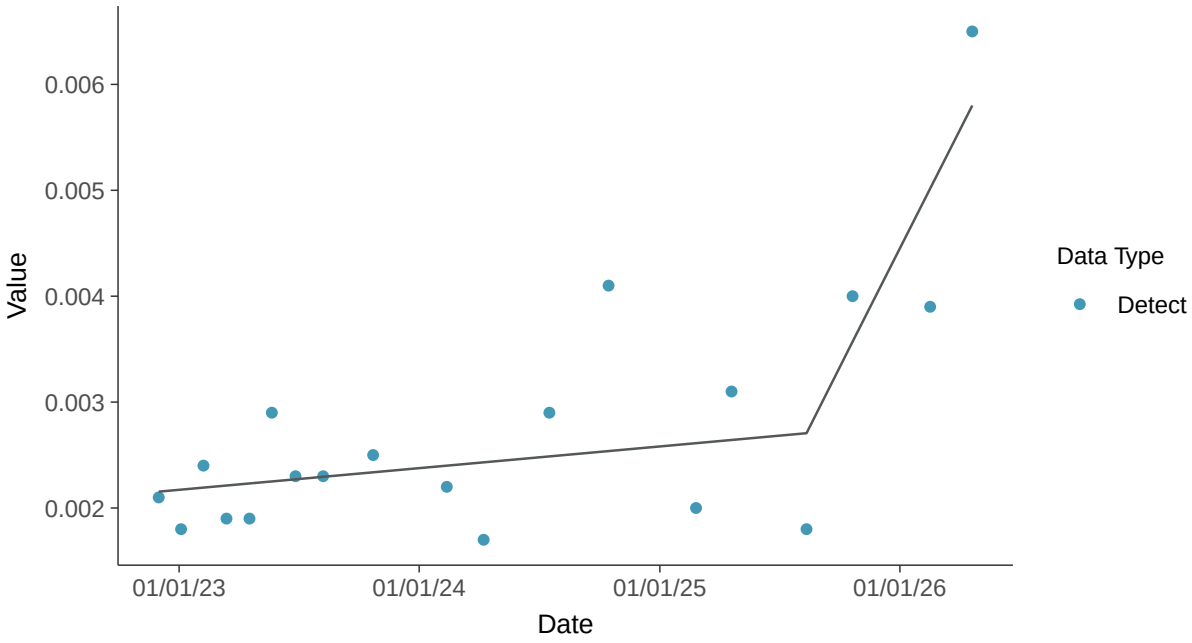
Trend Regression: Lognormal MLE

Chromium, Total, MW-31 (mg/L)



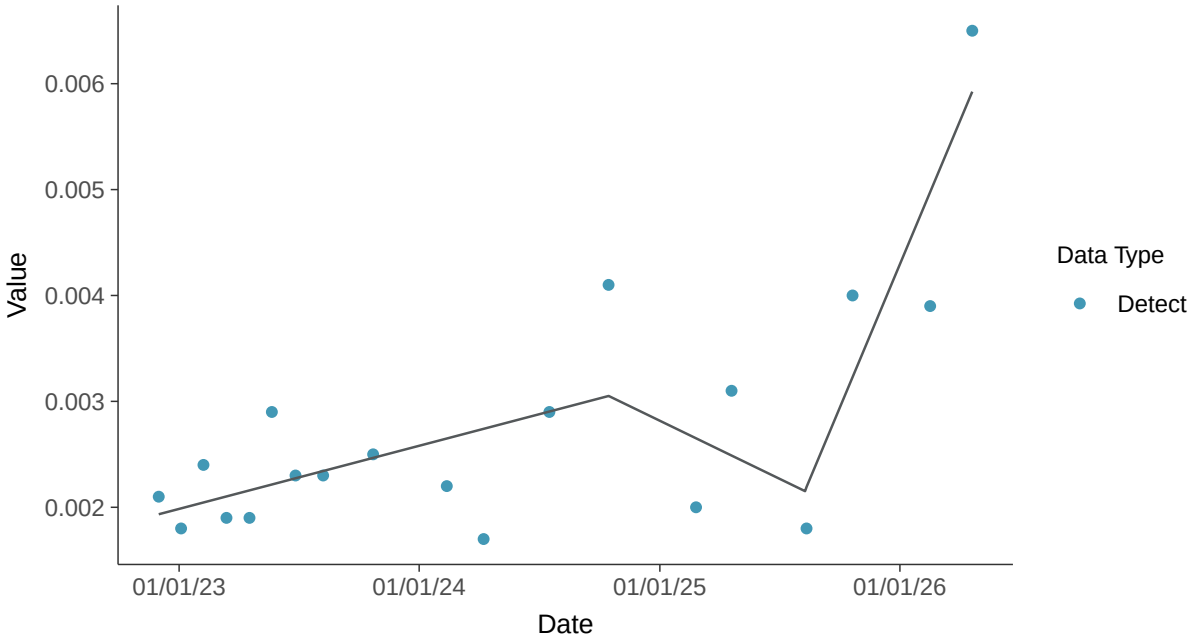
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-31 (mg/L)

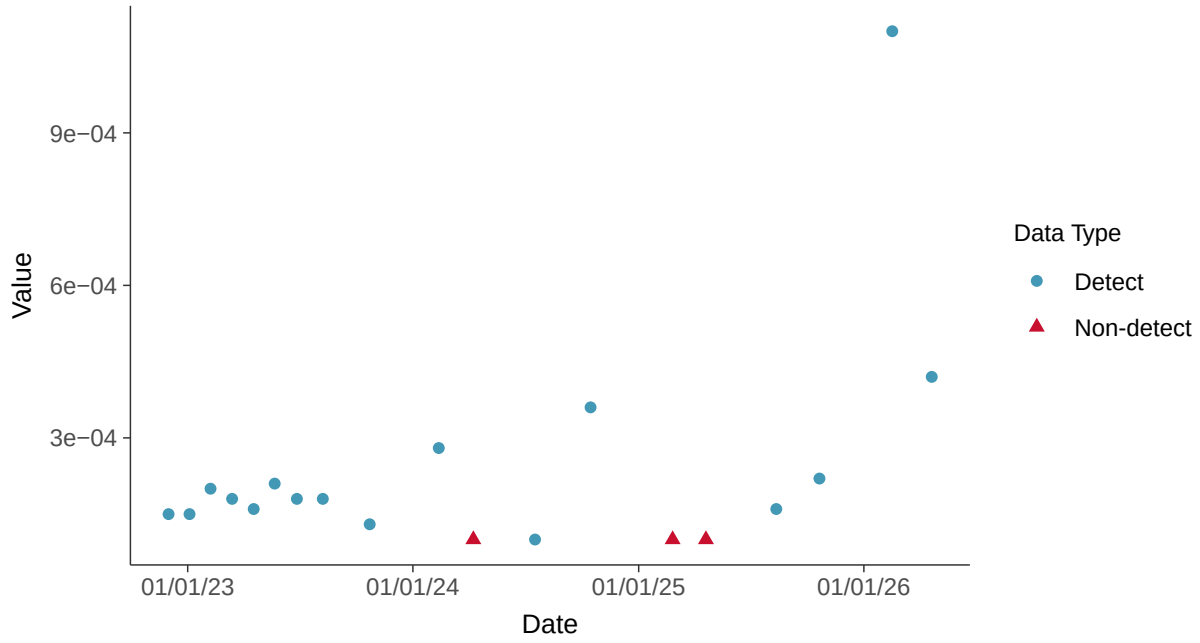


Appendix IV: Cobalt, MW-31

ID: 41_1_4_110

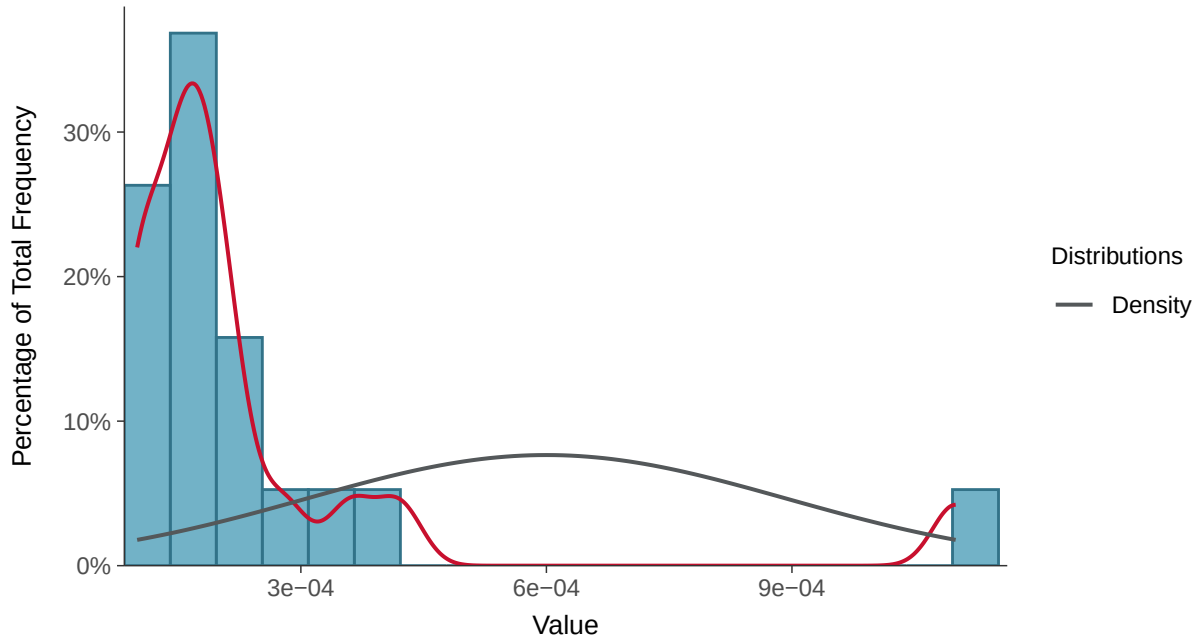
Scatter Plot

Cobalt, MW-31 (mg/L)



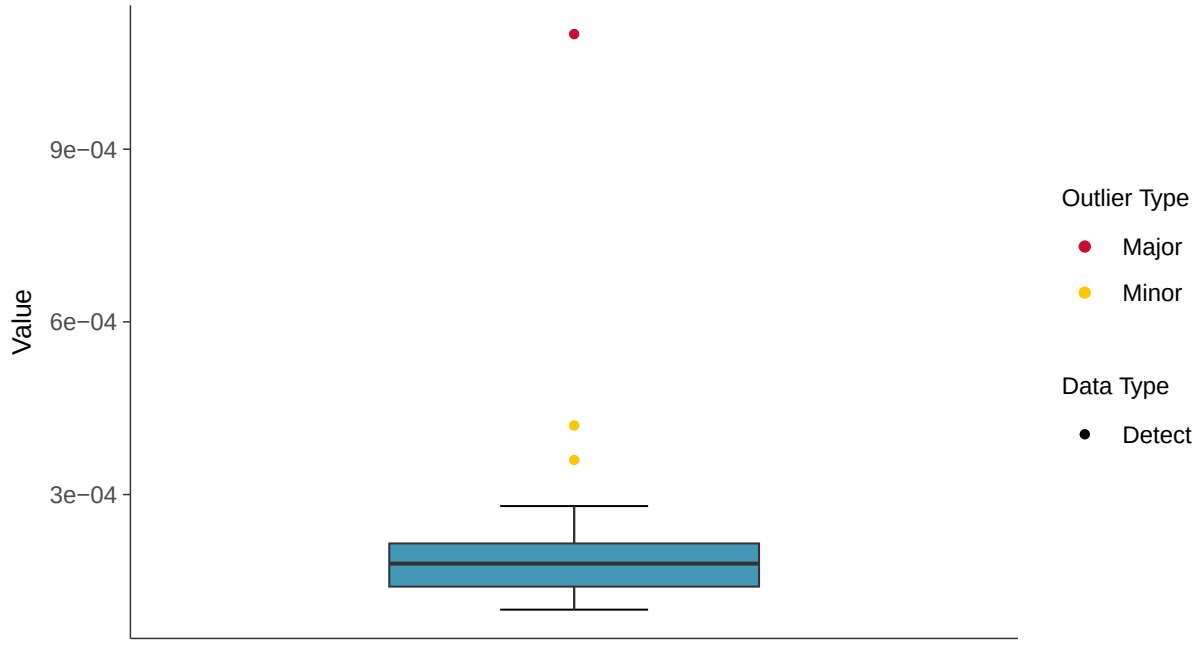
Histogram

Cobalt, MW-31 (mg/L)



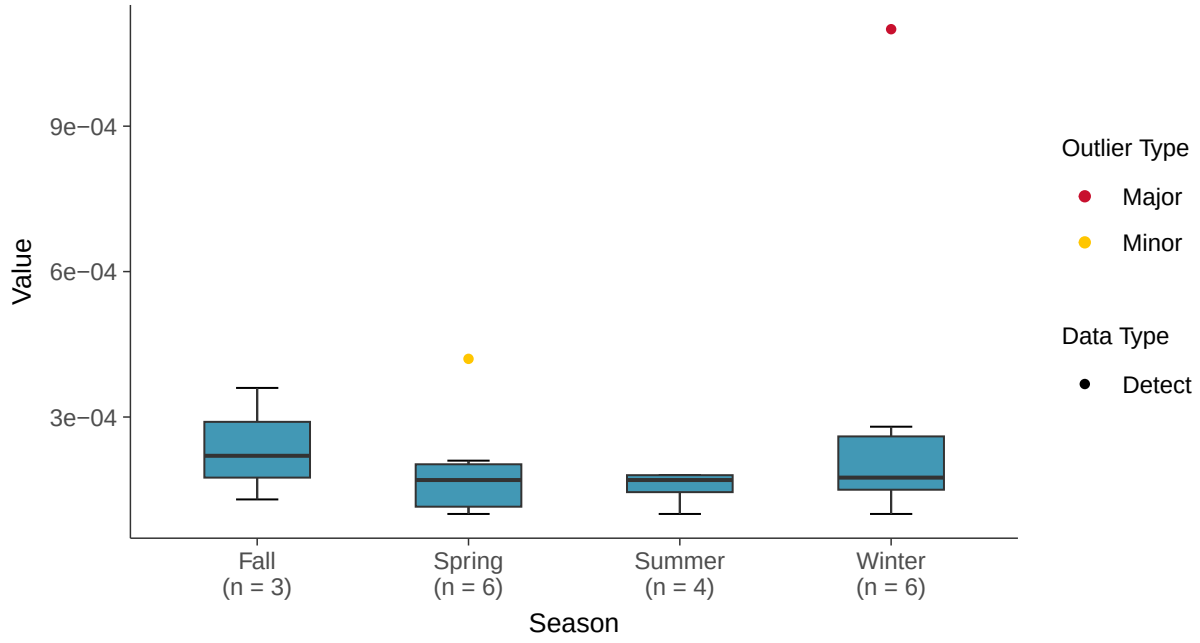
Boxplot

Cobalt, MW-31 (mg/L)



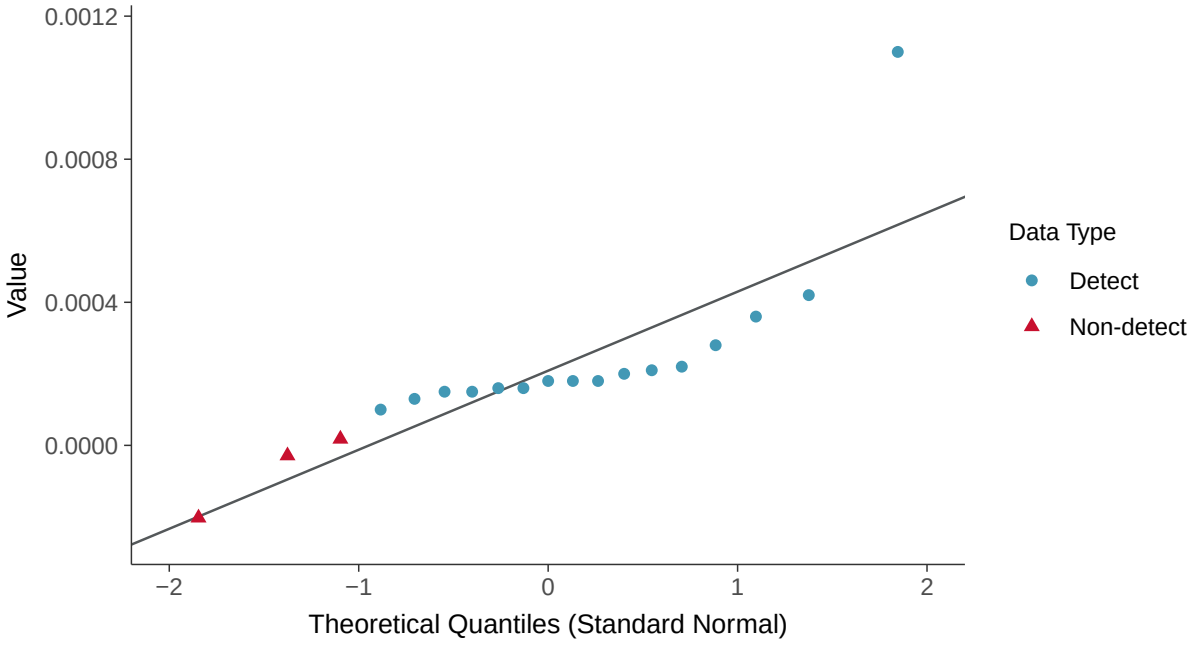
Boxplot by Season

Cobalt, MW-31 (mg/L)



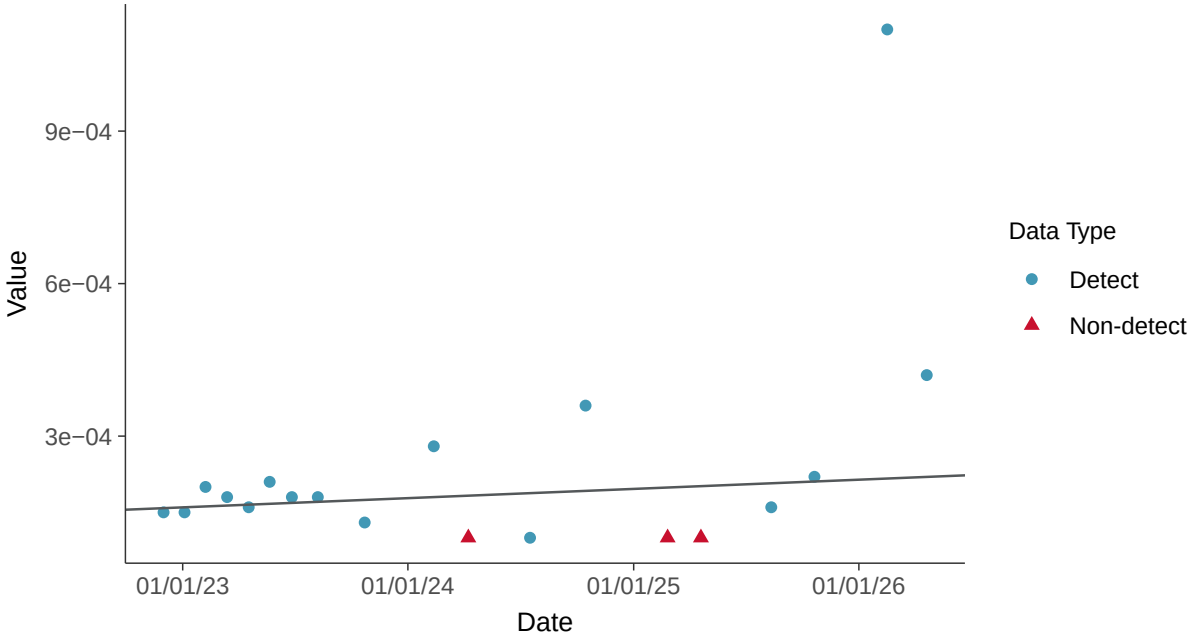
Normal Q-Q plot using ROS Imputed Estimates

Cobalt, MW-31 (mg/L)



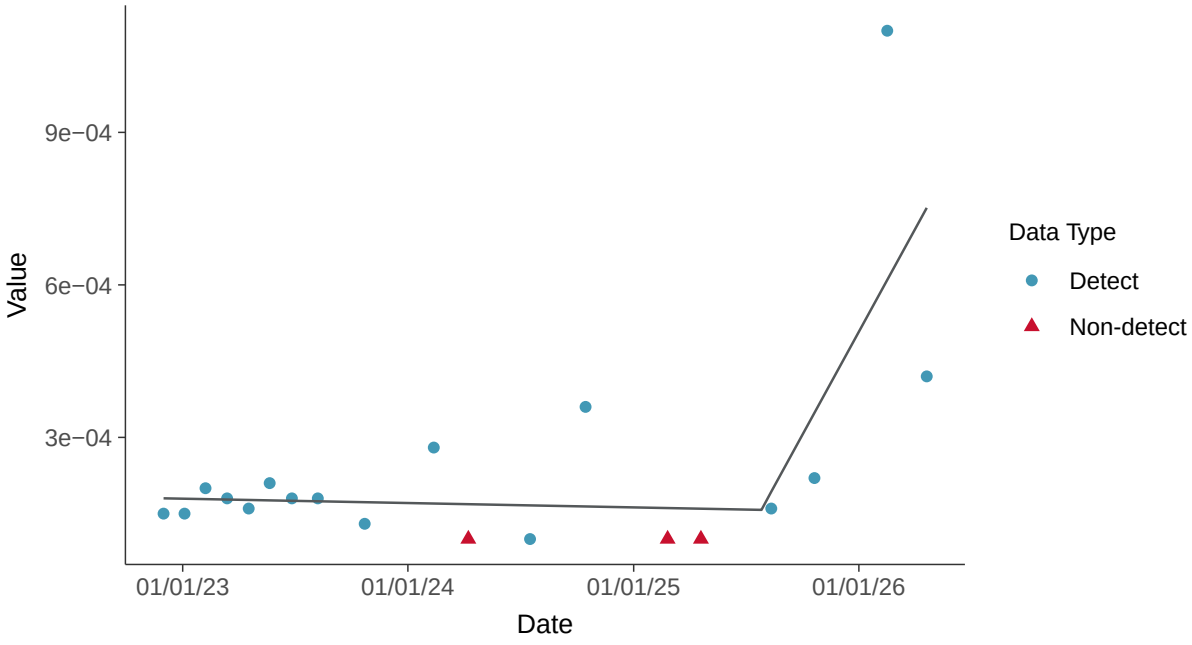
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-31 (mg/L)



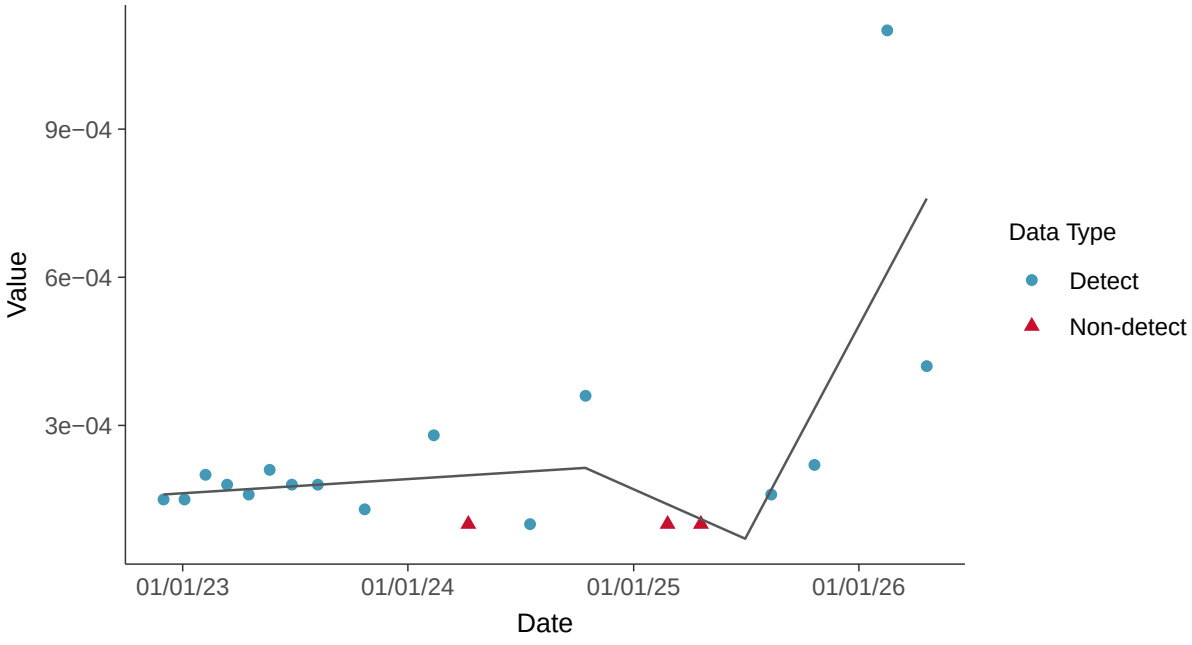
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-31 (mg/L)



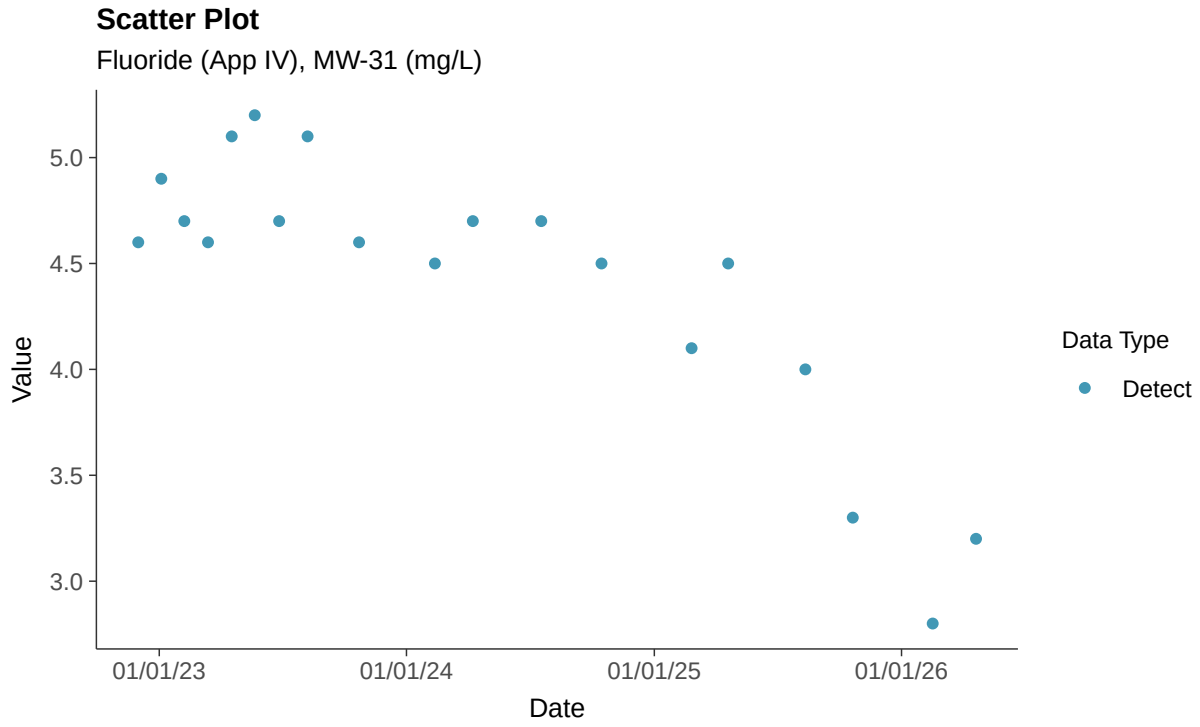
Trend Regression: Piecewise Linear-Linear-Linear

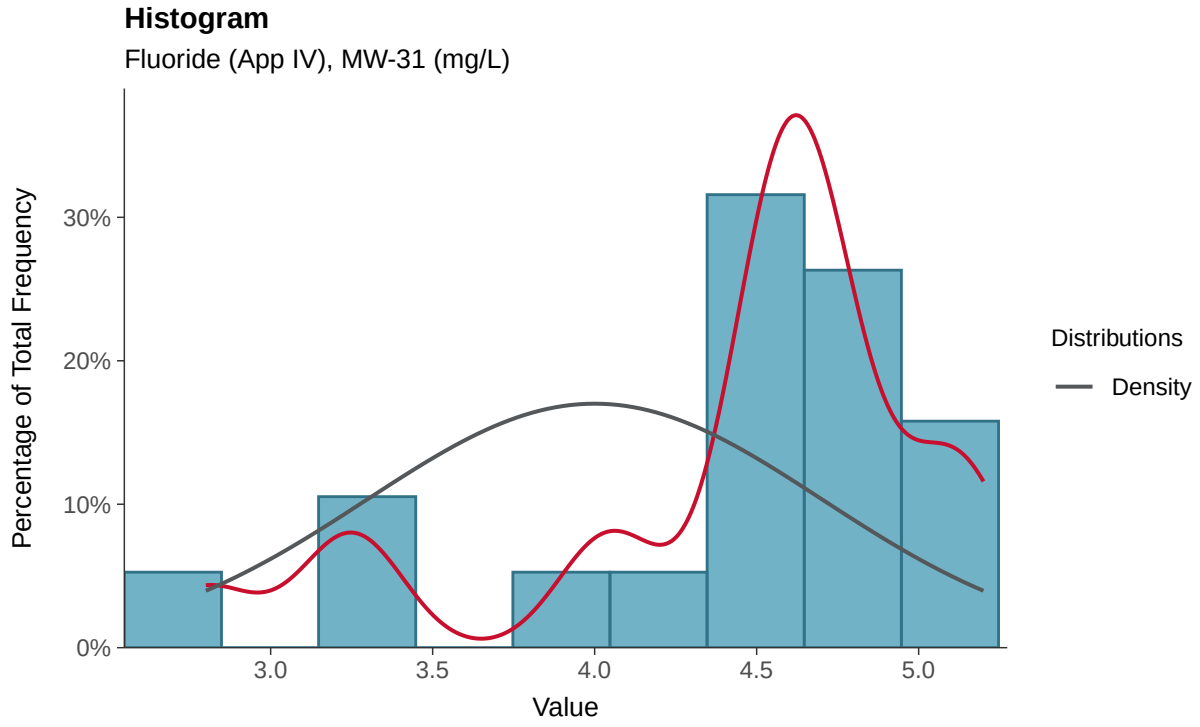
Cobalt, MW-31 (mg/L)



Appendix IV: Fluoride (App IV), MW-31

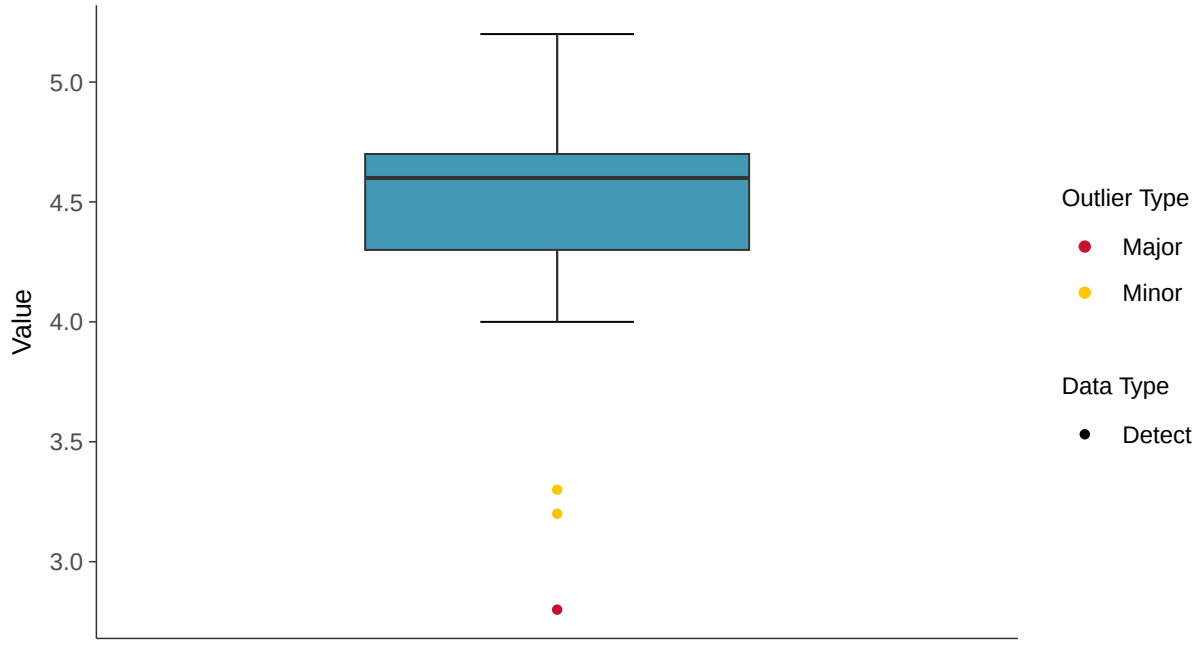
ID: 41_1_4_113





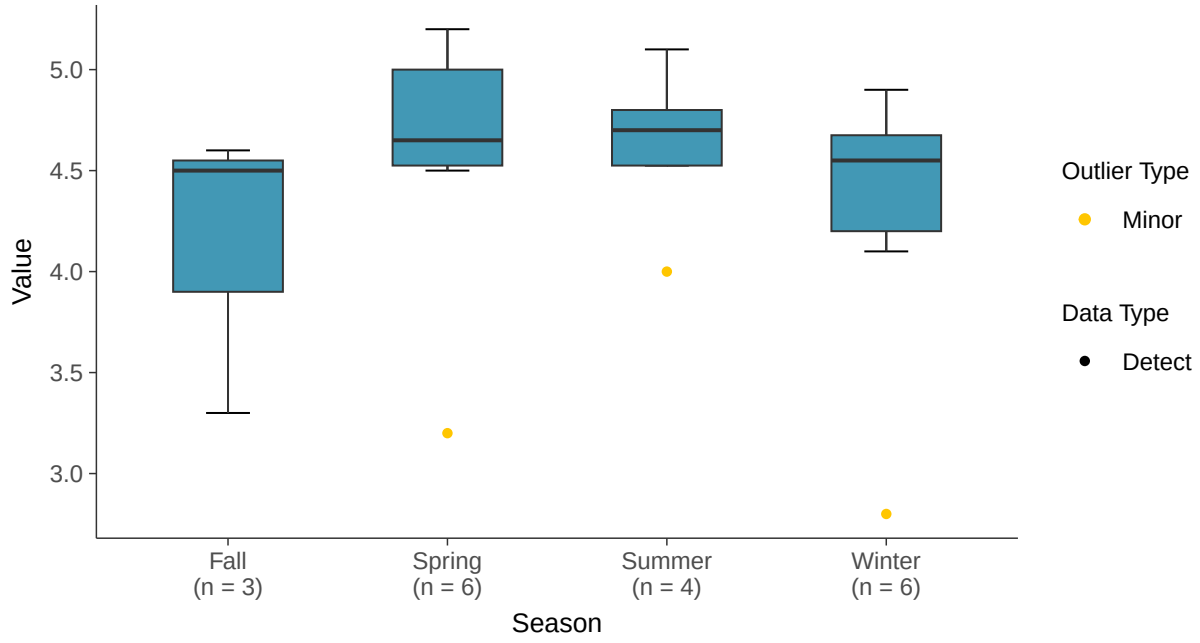
Boxplot

Fluoride (App IV), MW-31 (mg/L)



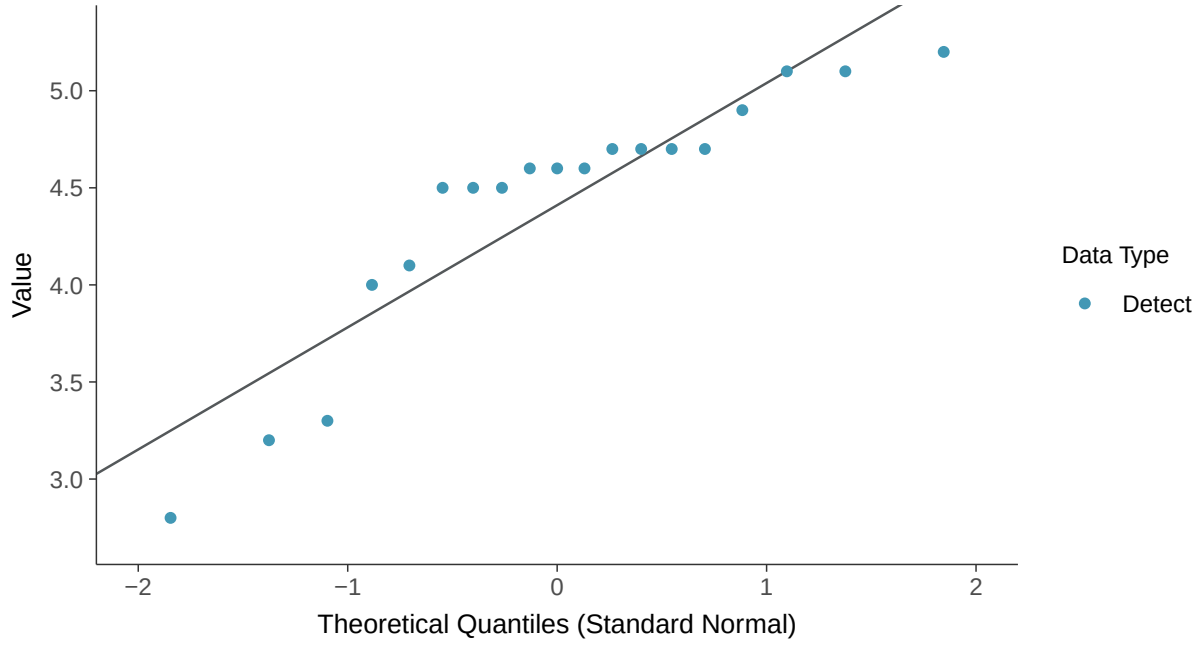
Boxplot by Season

Fluoride (App IV), MW-31 (mg/L)



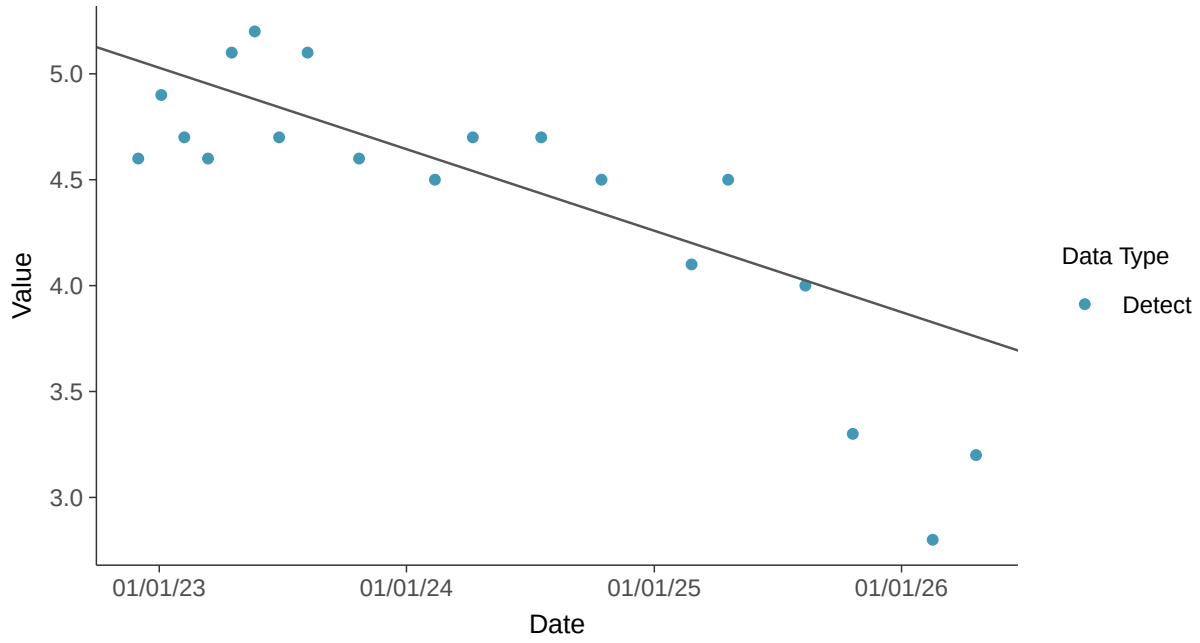
Normal Q-Q plot

Fluoride (App IV), MW-31 (mg/L)



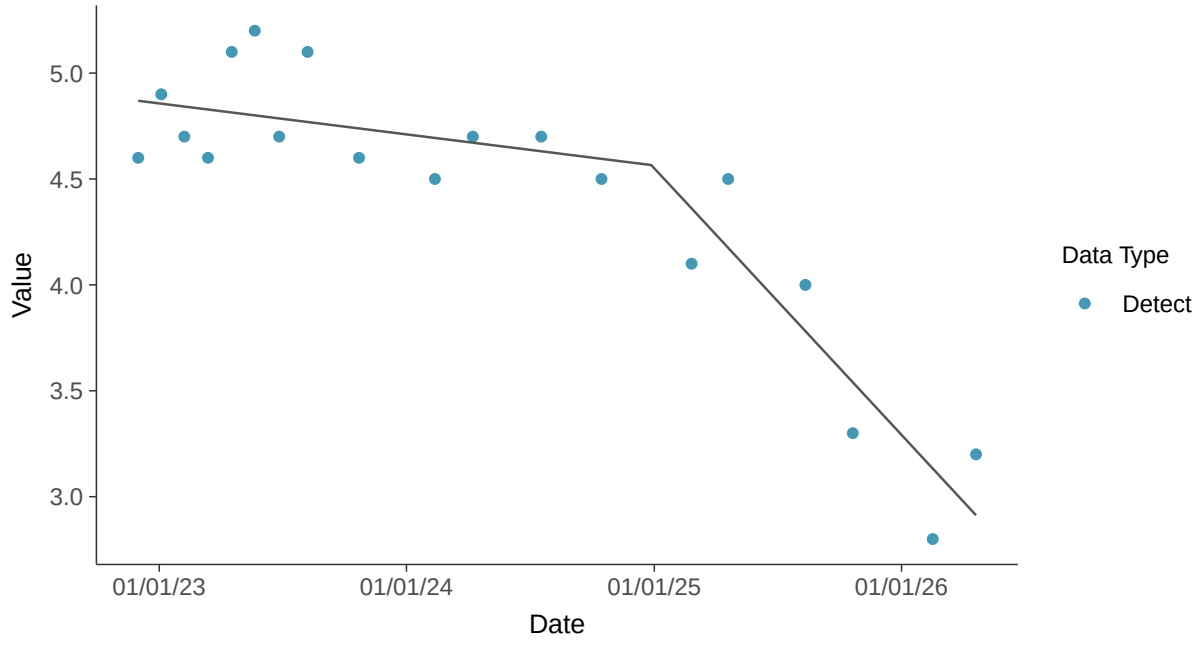
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Fluoride (App IV), MW-31 (mg/L)



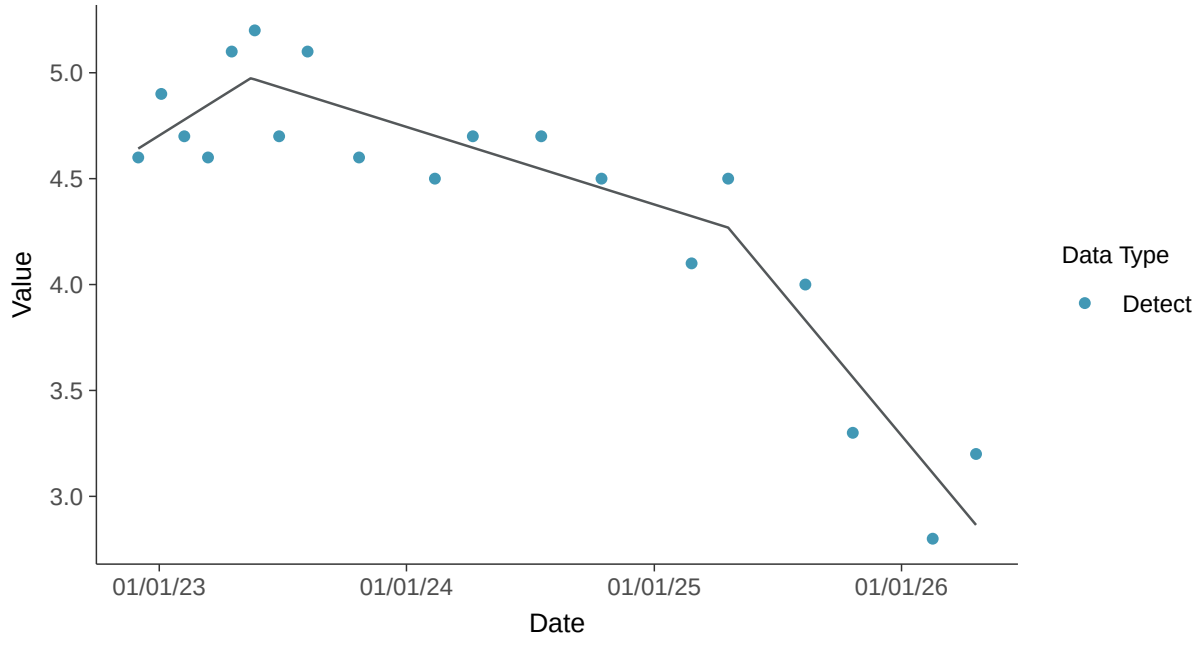
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-31 (mg/L)

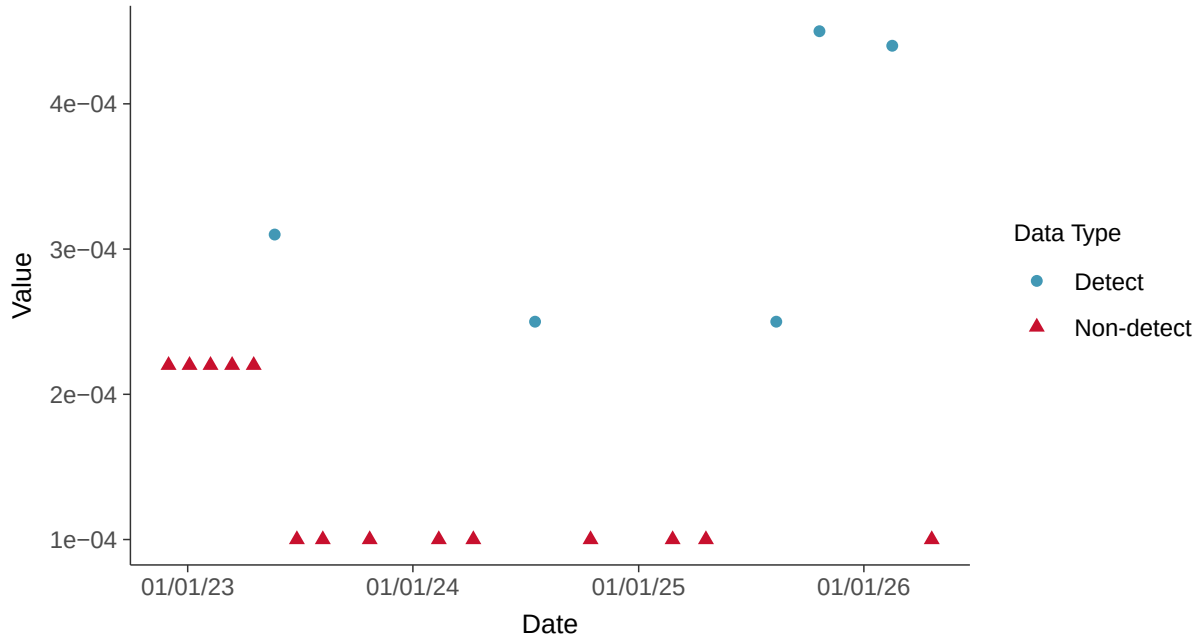


Appendix IV: Lead, MW-31

ID: 41_1_4_115

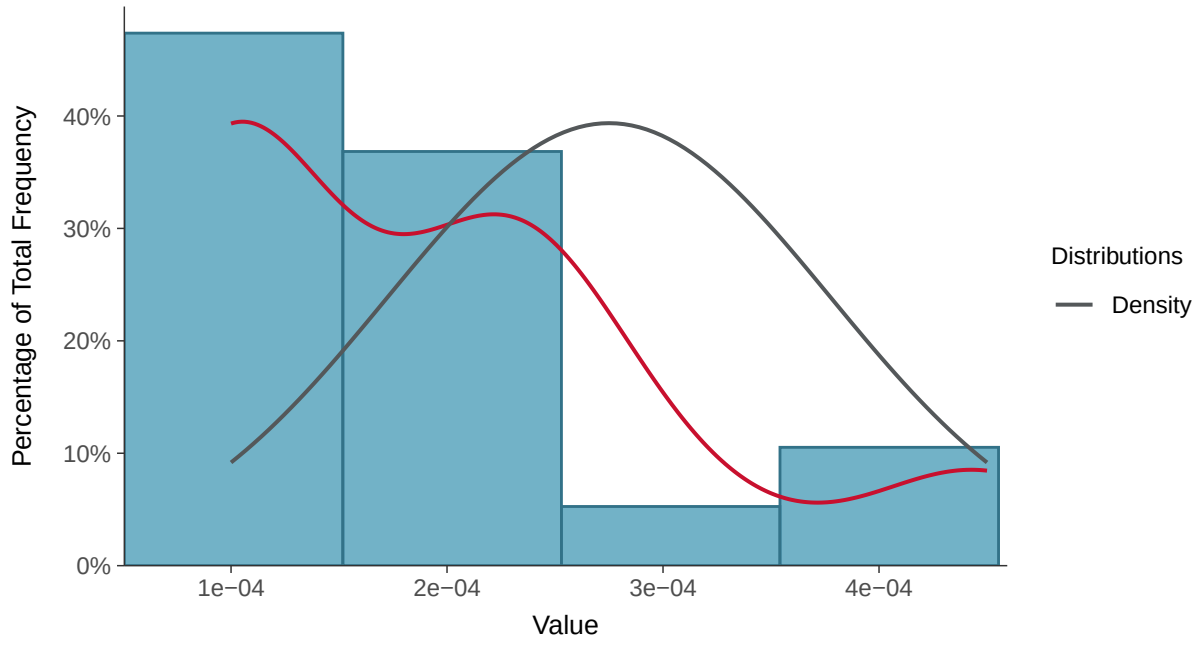
Scatter Plot

Lead, MW-31 (mg/L)



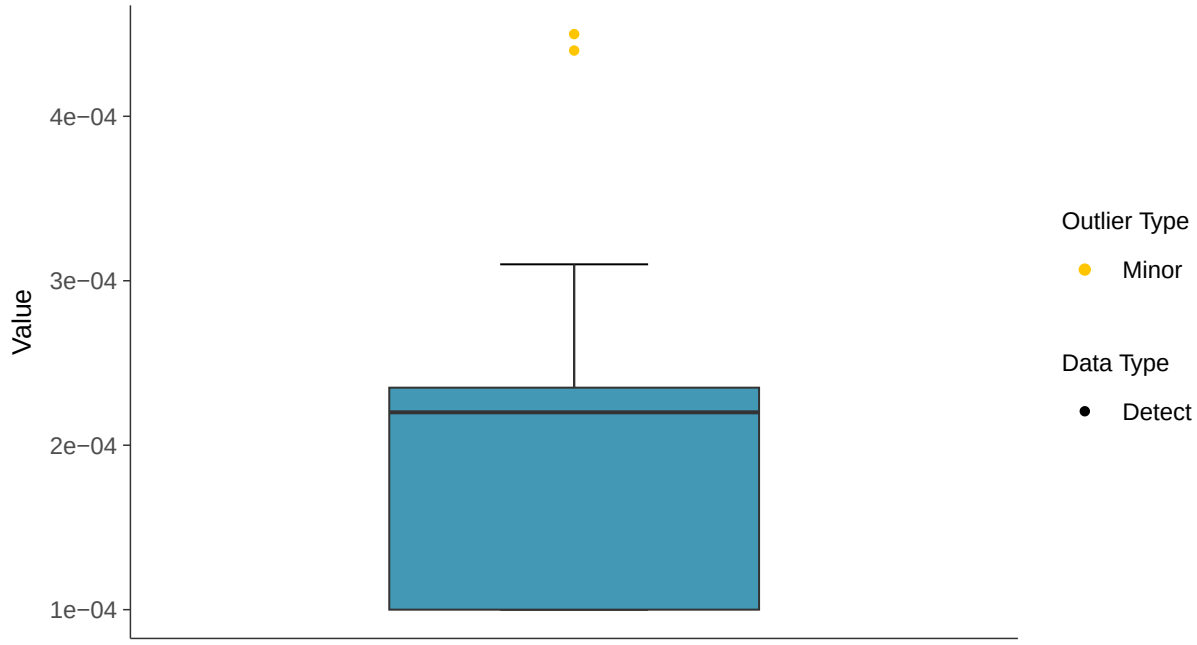
Histogram

Lead, MW-31 (mg/L)



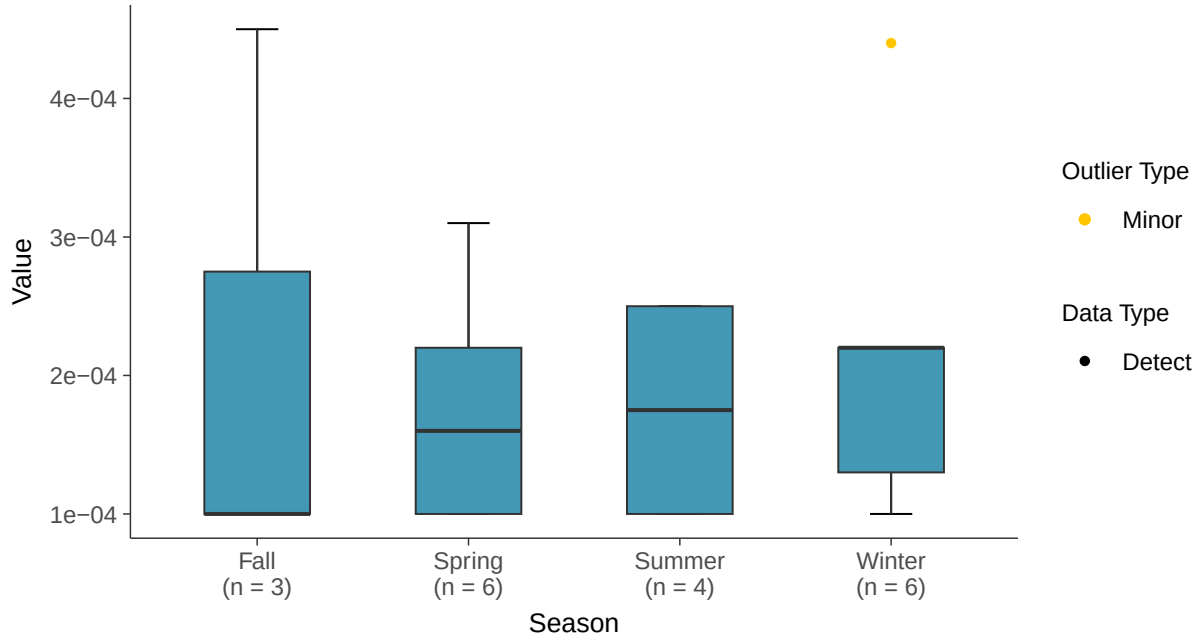
Boxplot

Lead, MW-31 (mg/L)



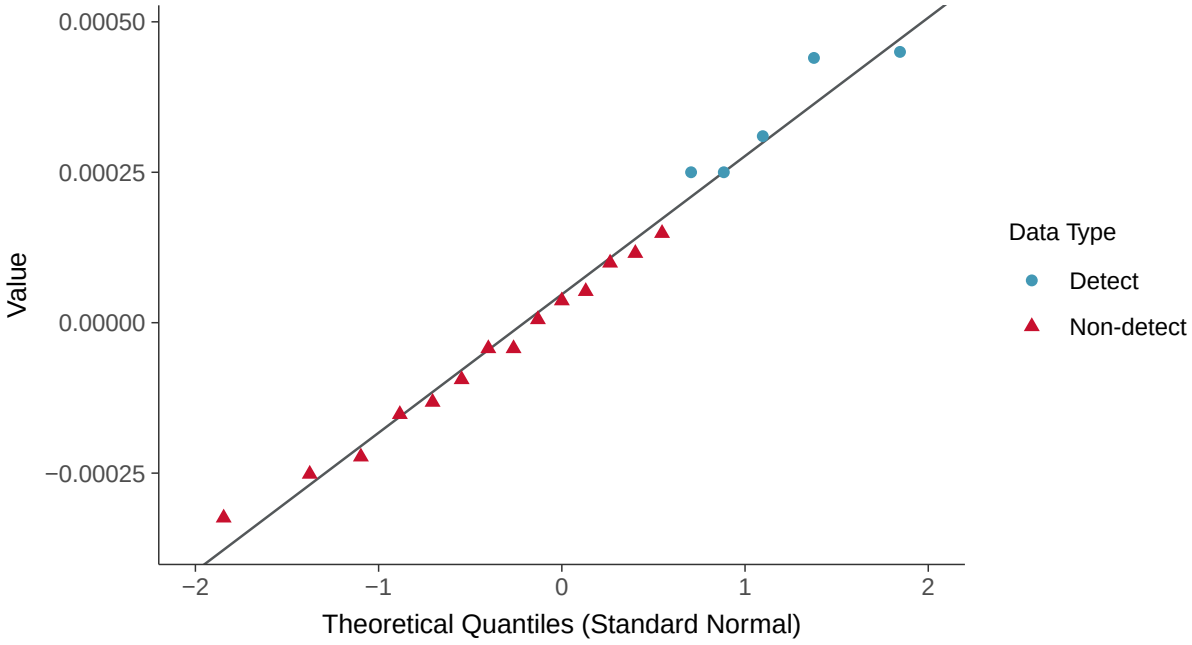
Boxplot by Season

Lead, MW-31 (mg/L)



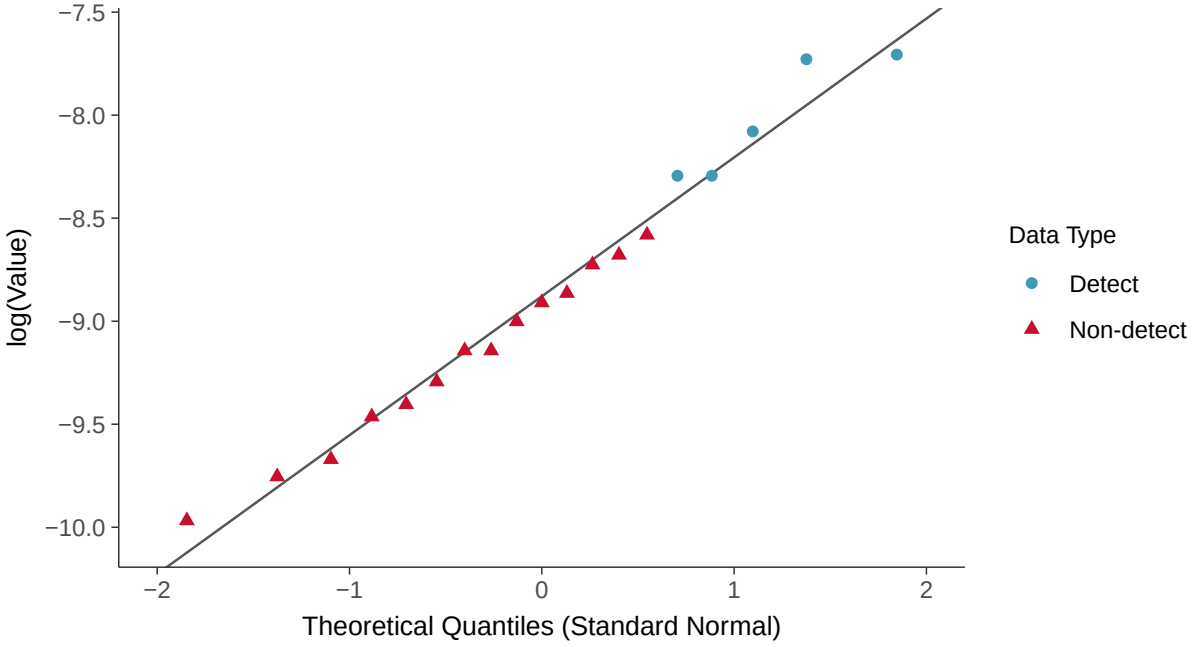
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-31 (mg/L)



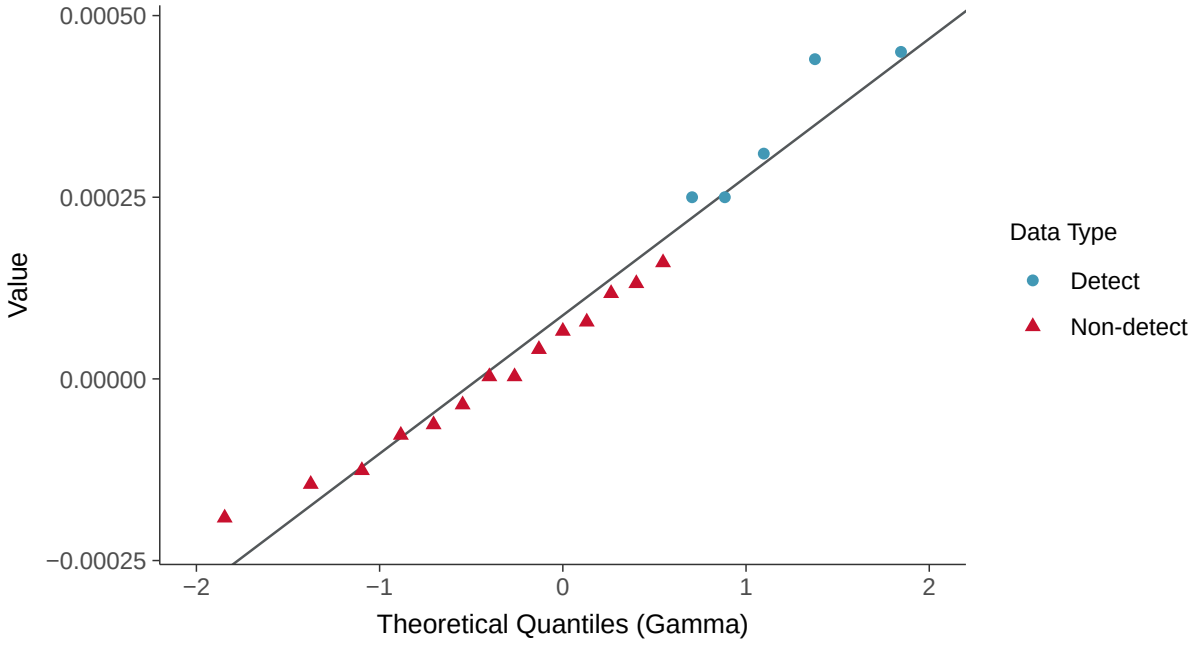
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-31 (mg/L)



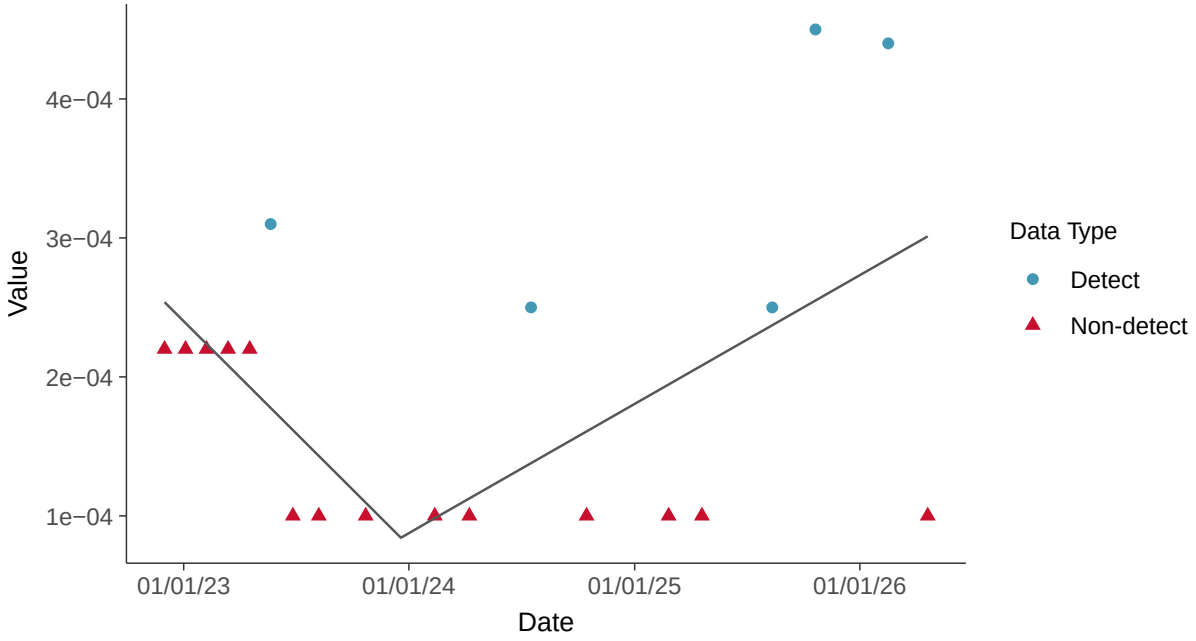
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-31 (mg/L)



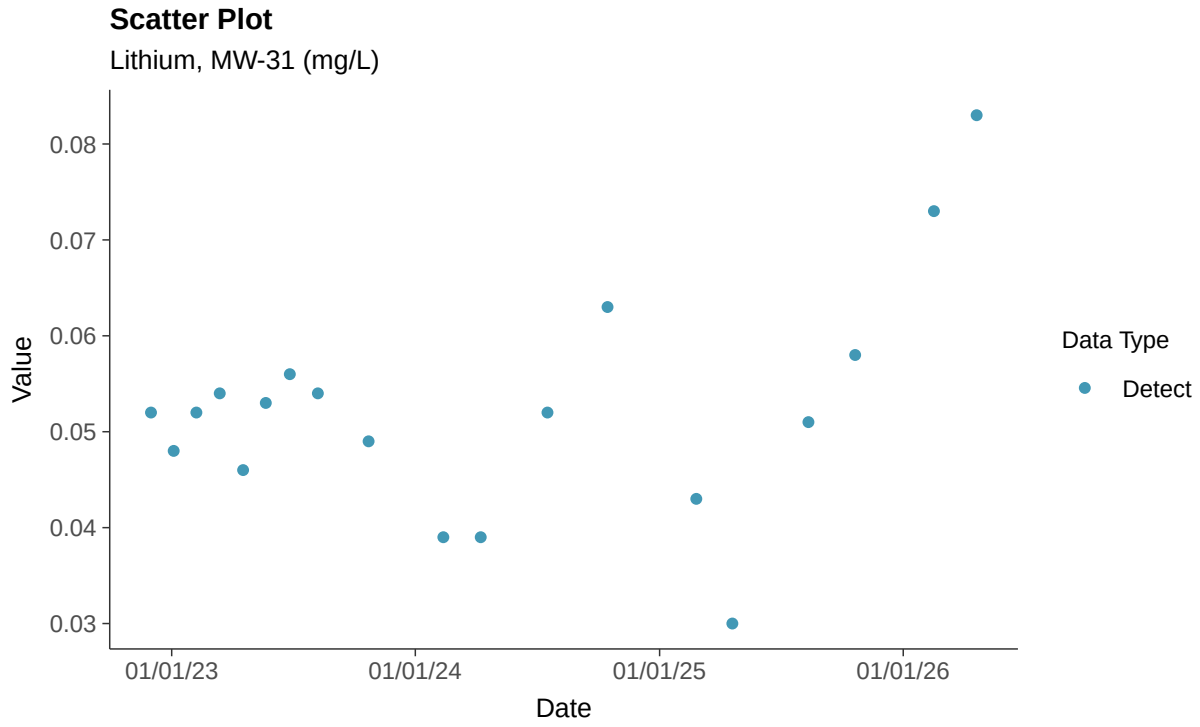
Trend Regression: Piecewise Linear-Linear

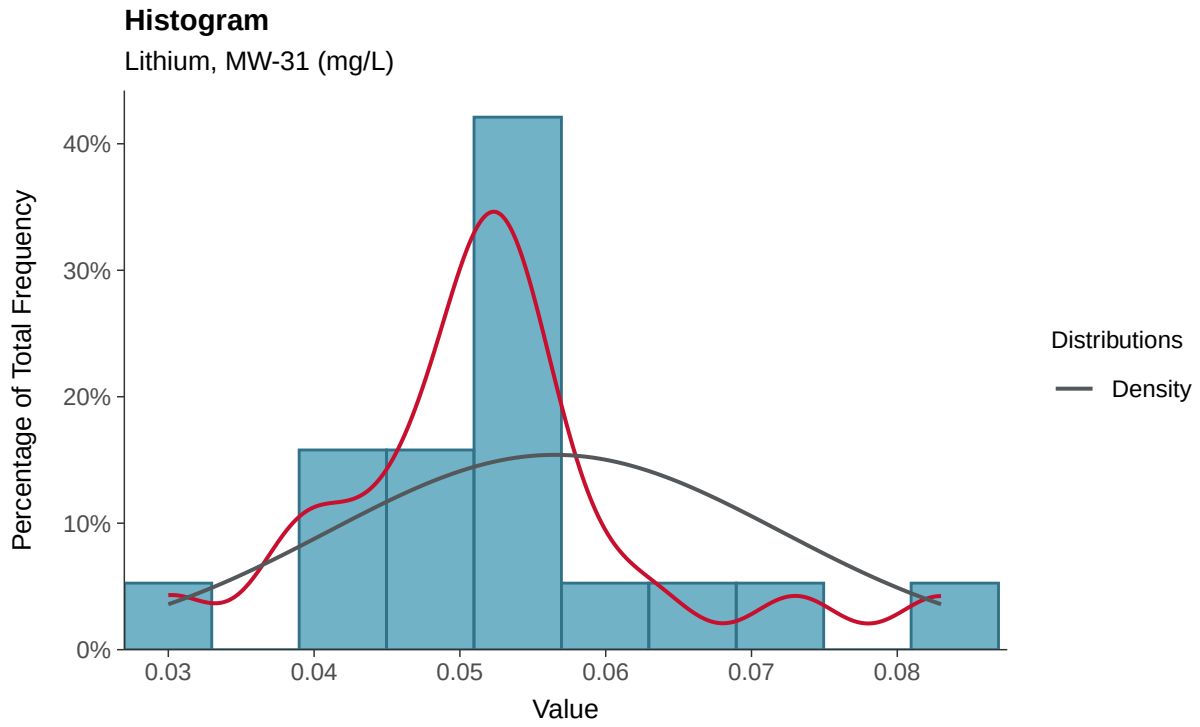
Lead, MW-31 (mg/L)



Appendix IV: Lithium, MW-31

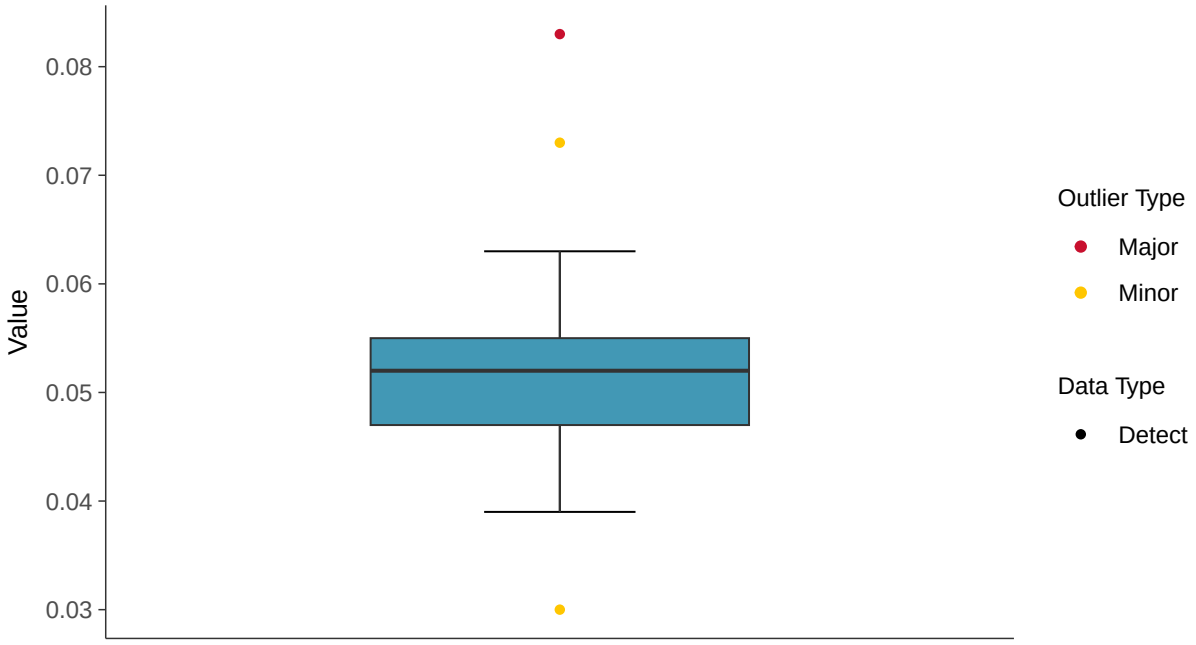
ID: 41_1_4_116





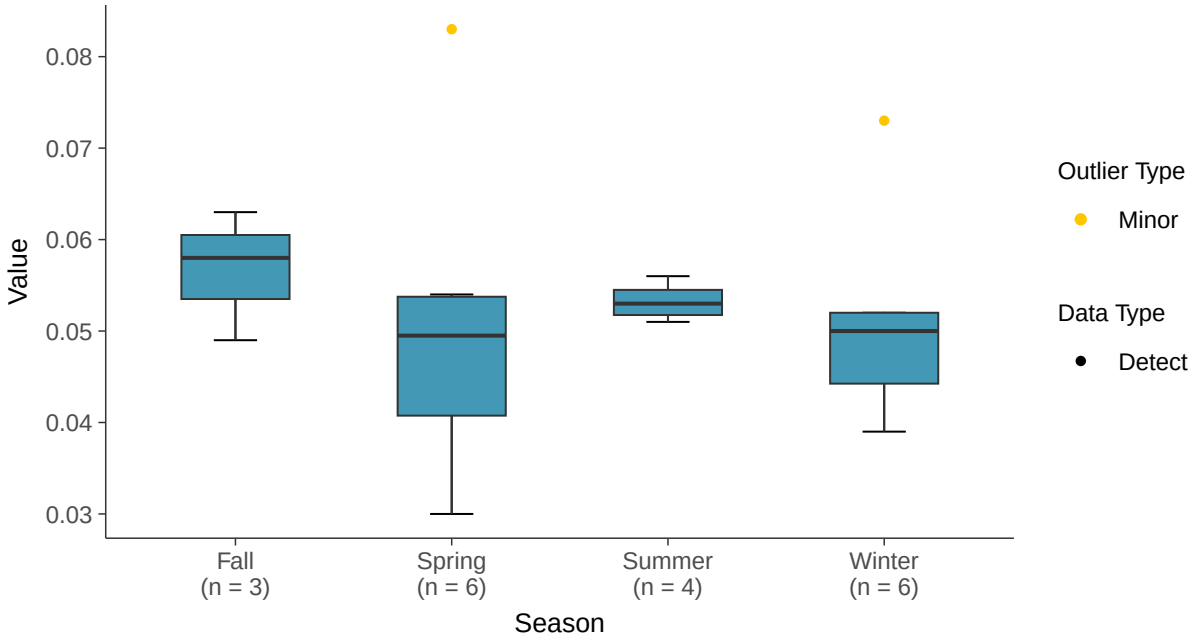
Boxplot

Lithium, MW-31 (mg/L)



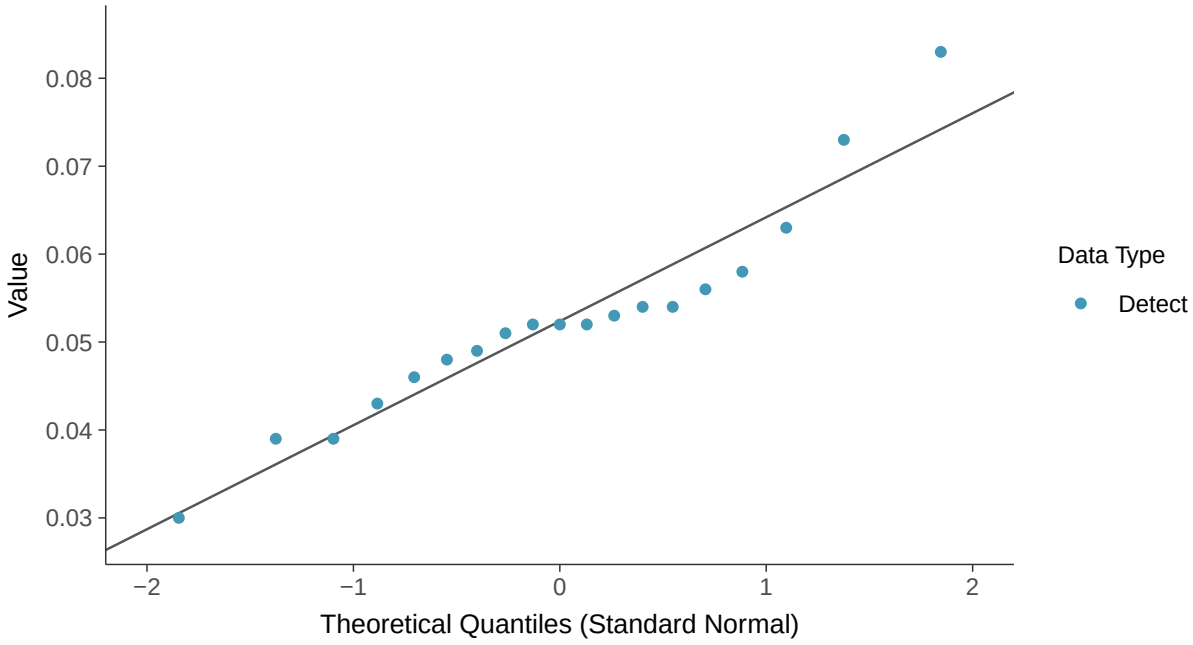
Boxplot by Season

Lithium, MW-31 (mg/L)



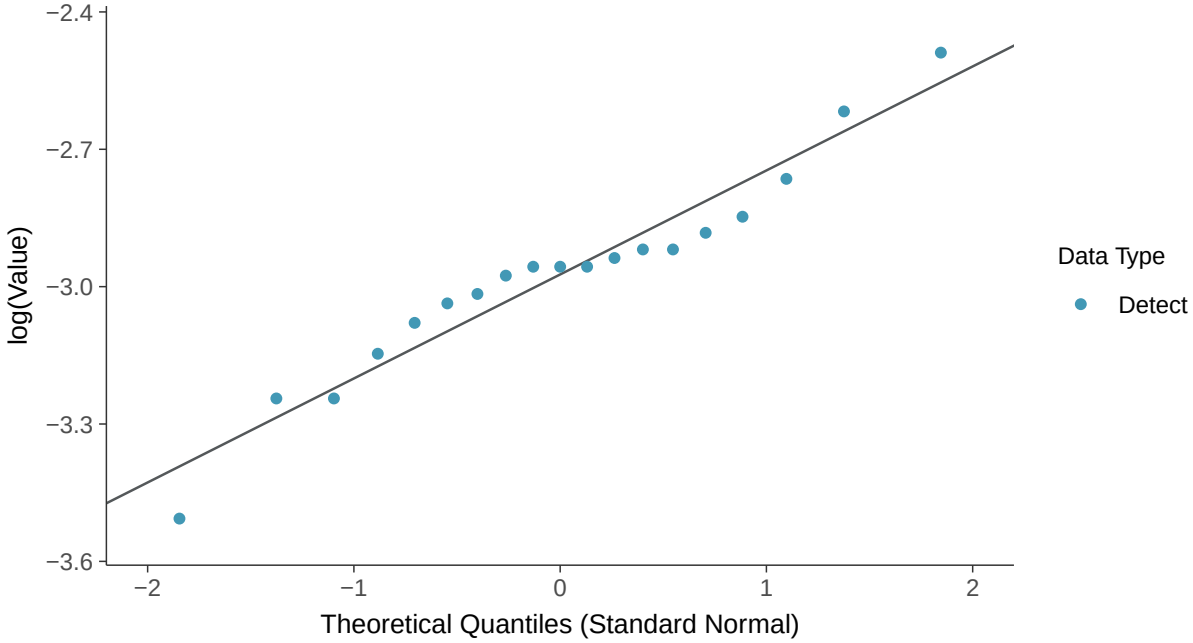
Normal Q-Q plot

Lithium, MW-31 (mg/L)



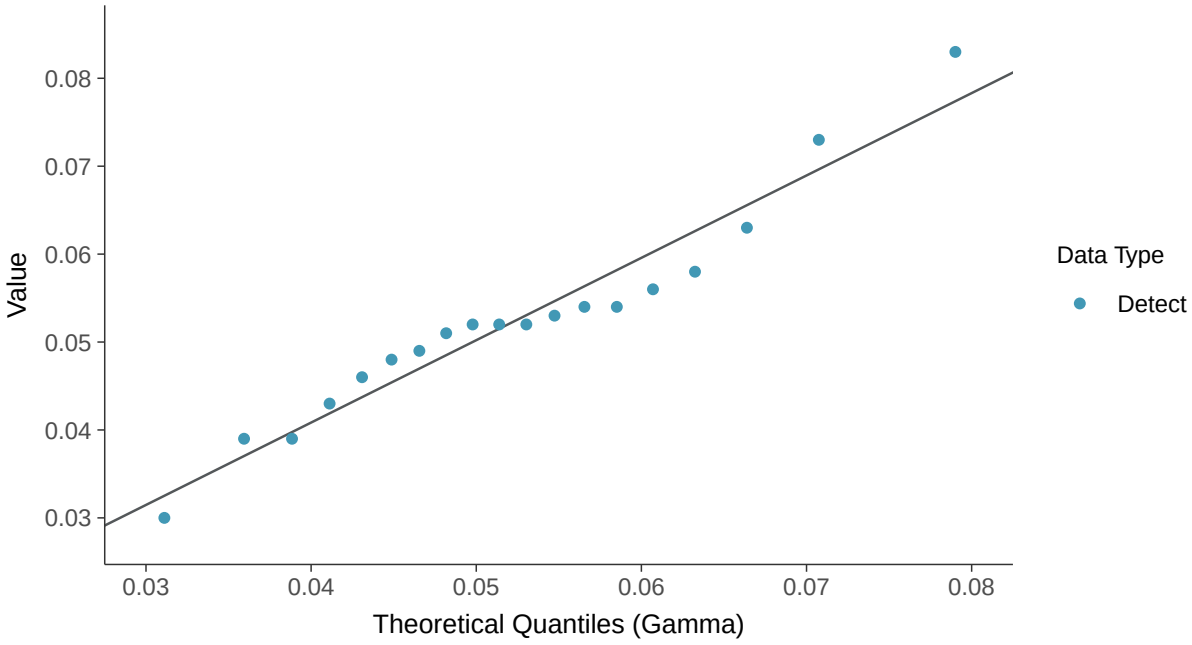
Lognormal Q-Q plot

Lithium, MW-31 (mg/L)



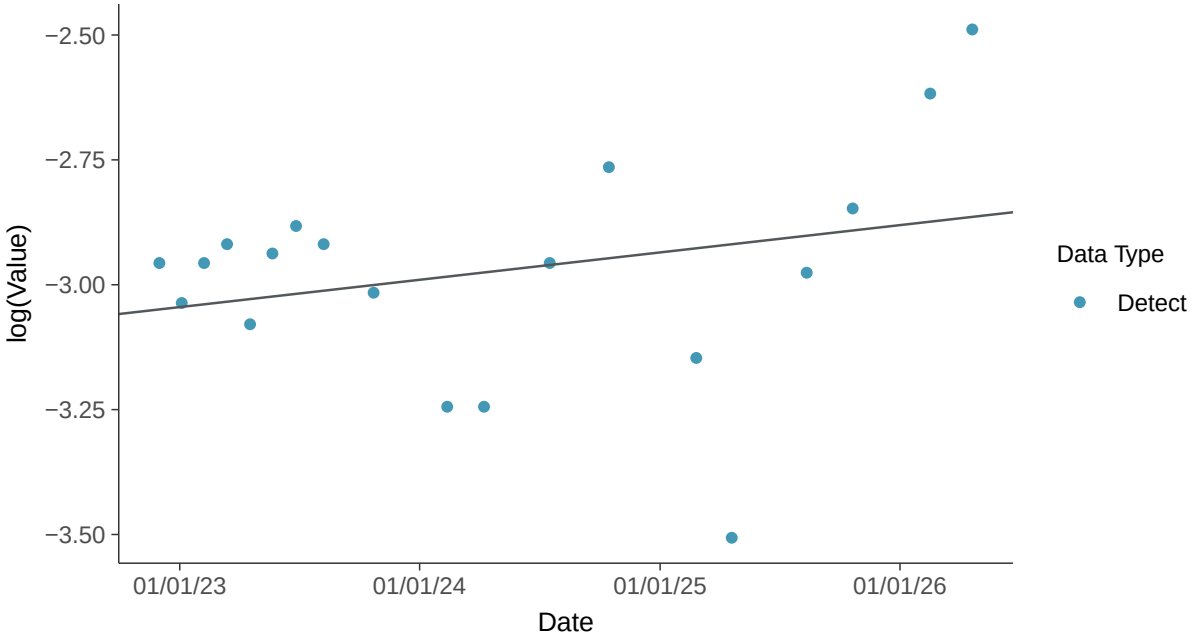
Gamma Q-Q plot

Lithium, MW-31 (mg/L)



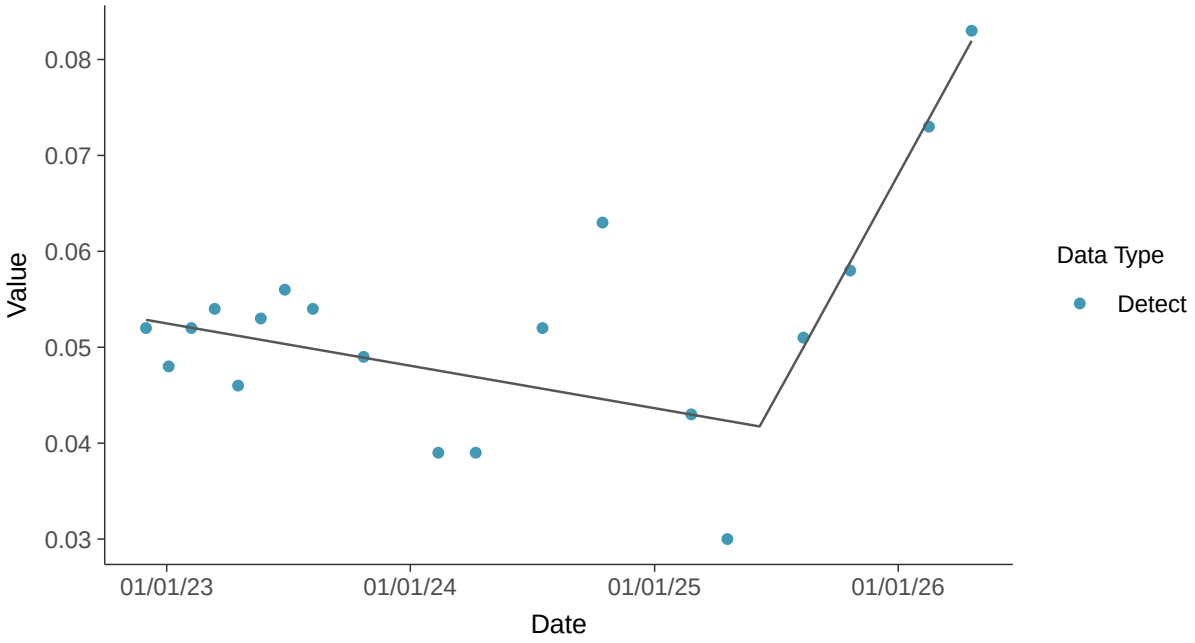
Trend Regression: Lognormal MLE

Lithium, MW-31 (mg/L)



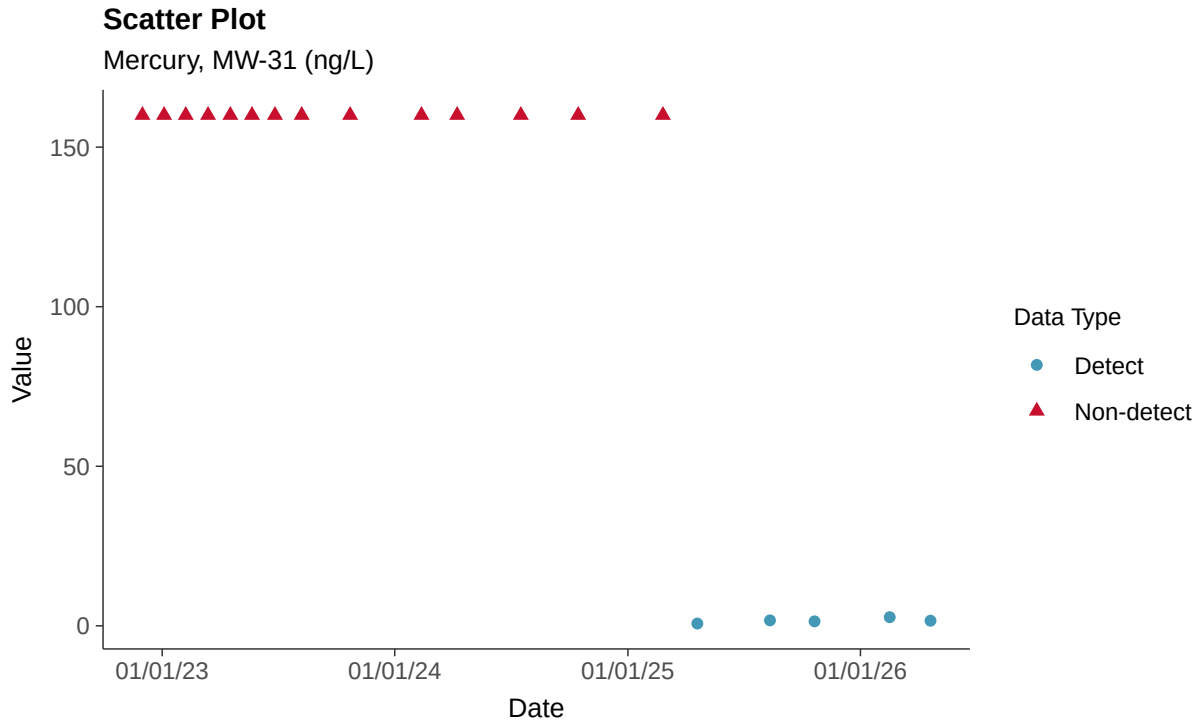
Trend Regression: Piecewise Linear-Linear

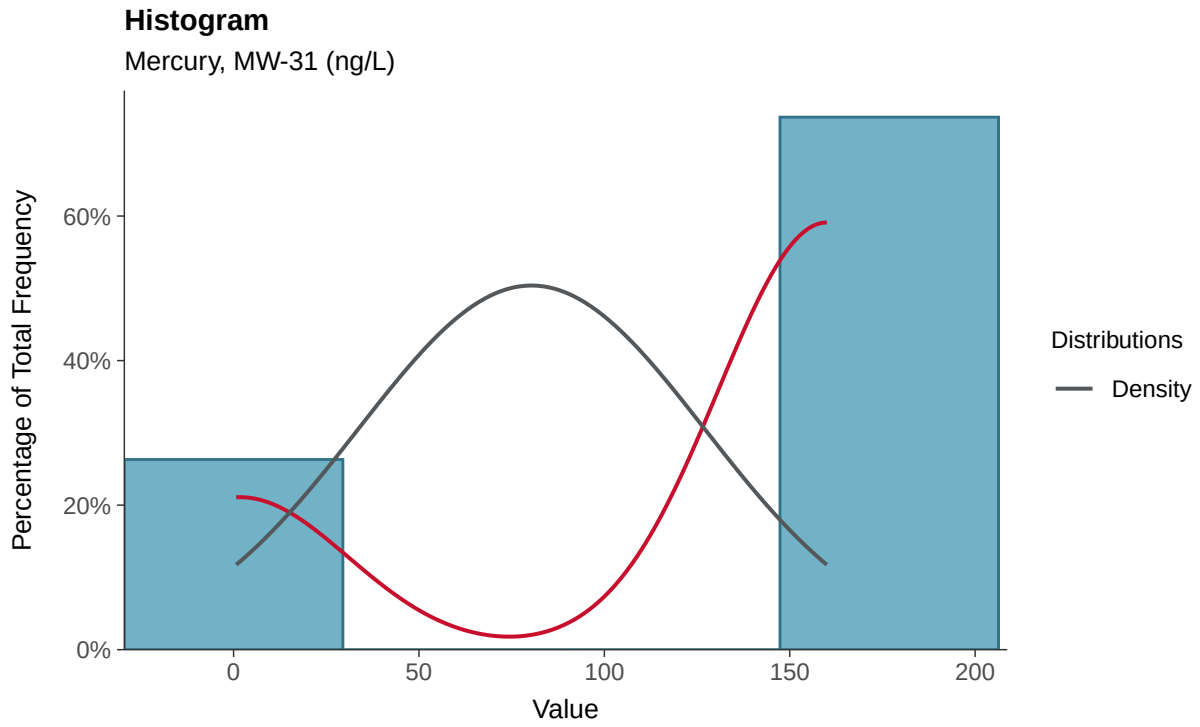
Lithium, MW-31 (mg/L)



Appendix IV: Mercury, MW-31

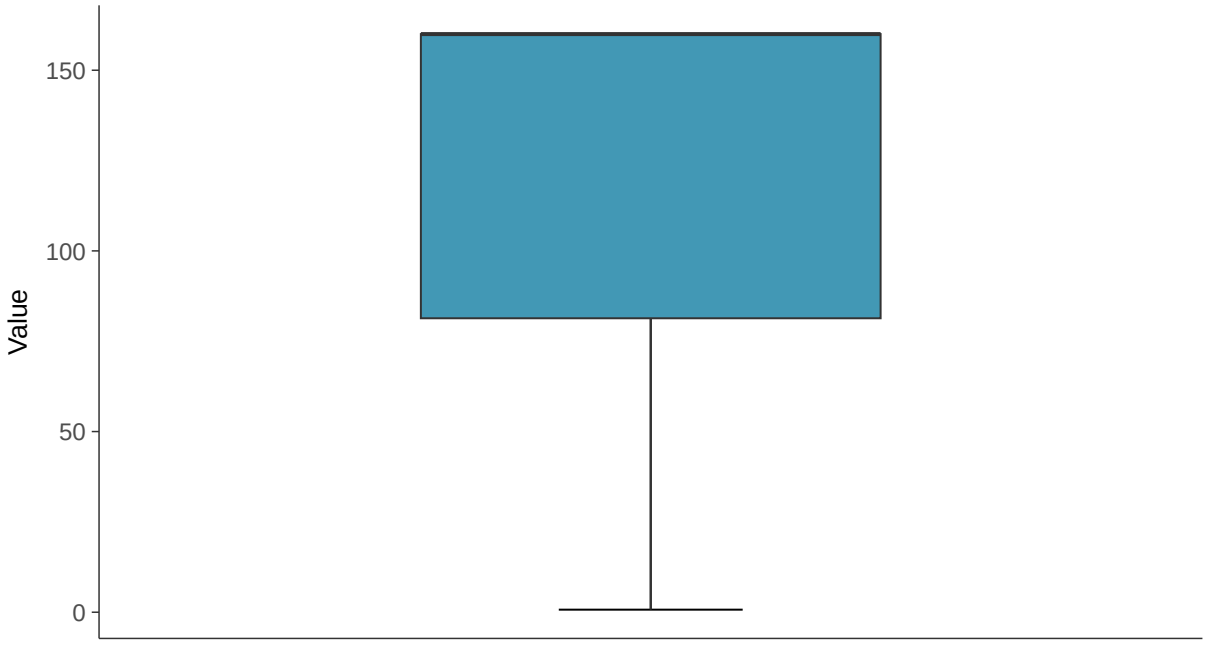
ID: 41_1_4_117





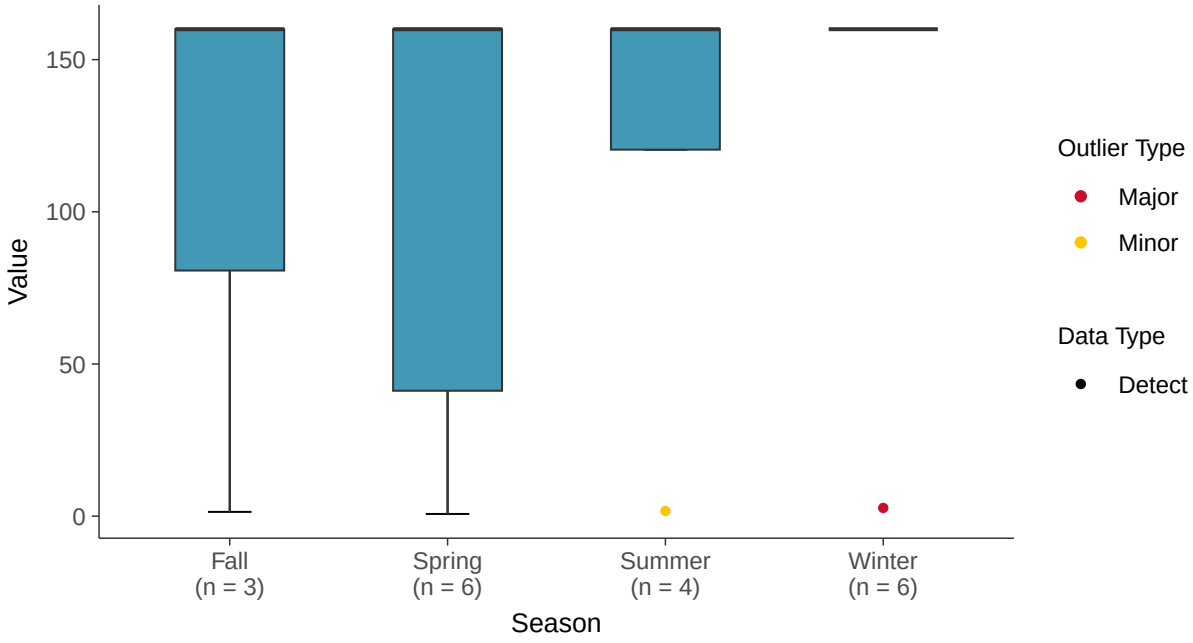
Boxplot

Mercury, MW-31 (ng/L)



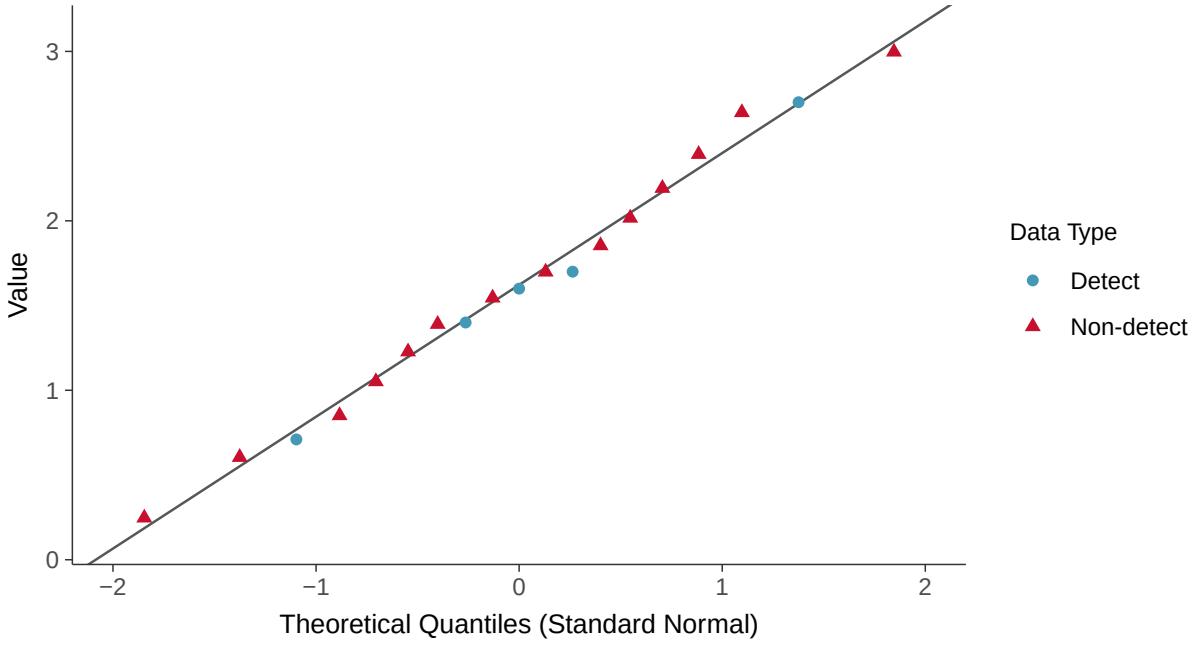
Boxplot by Season

Mercury, MW-31 (ng/L)



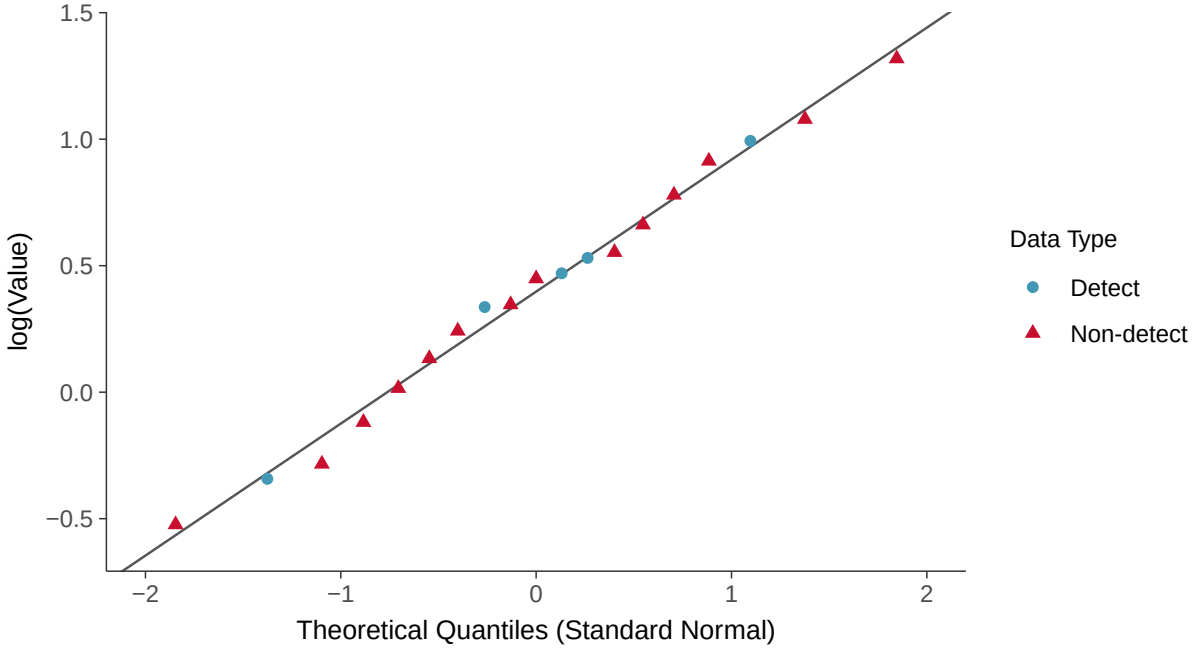
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-31 (ng/L)



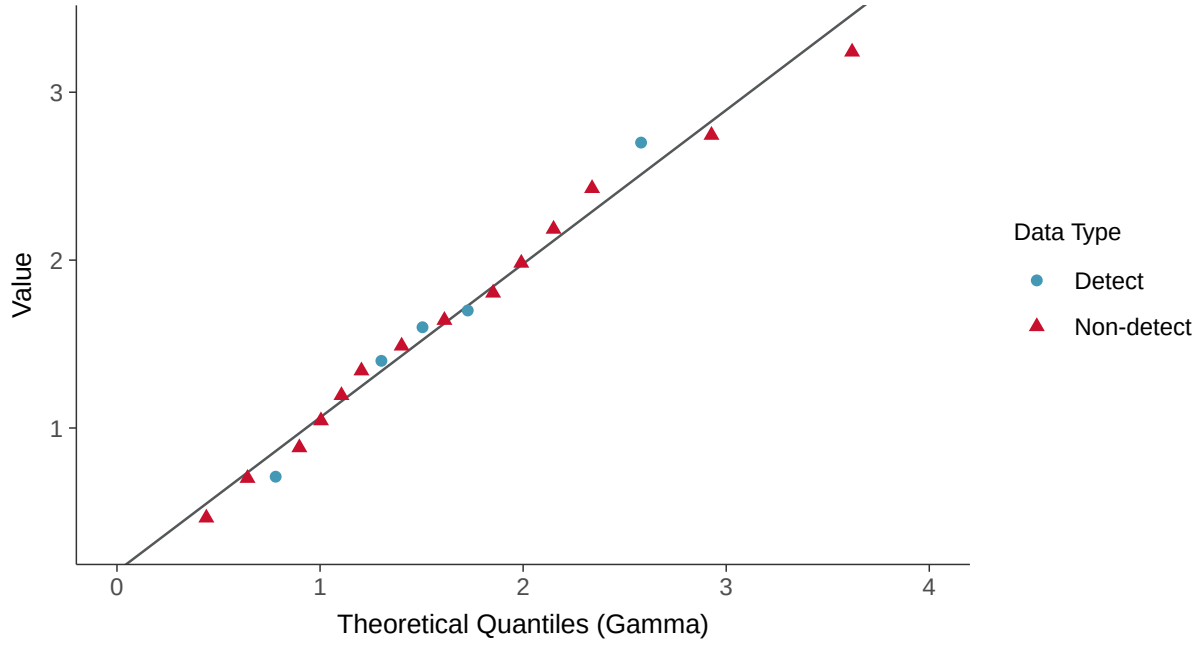
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-31 (ng/L)



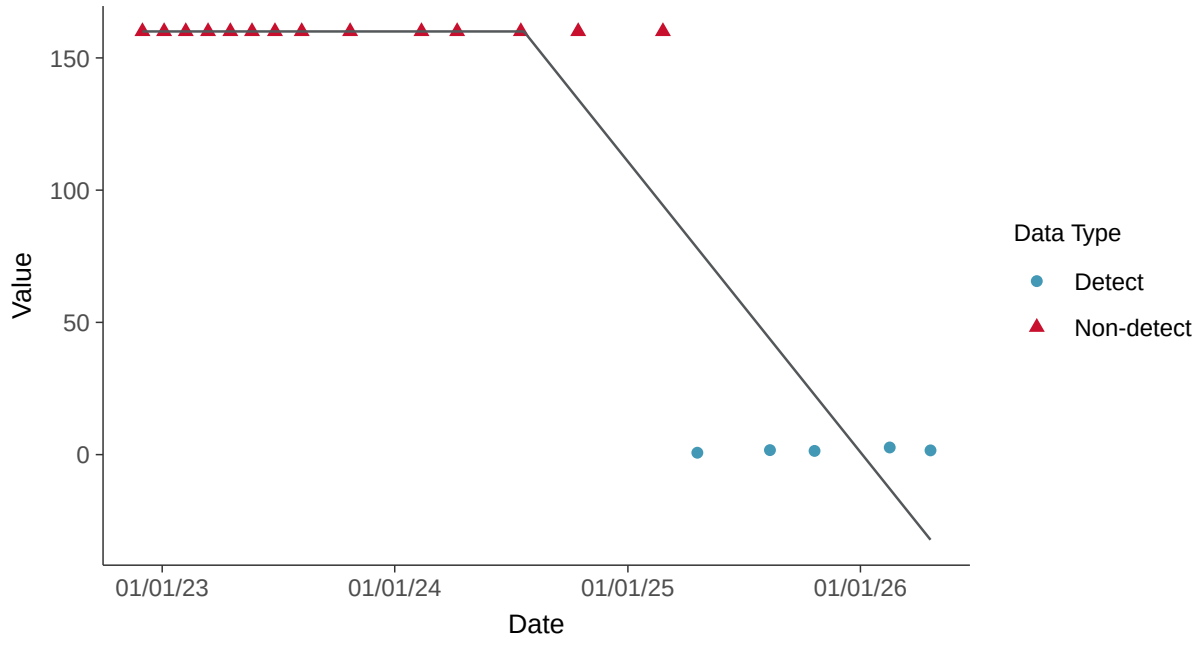
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-31 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-31 (ng/L)

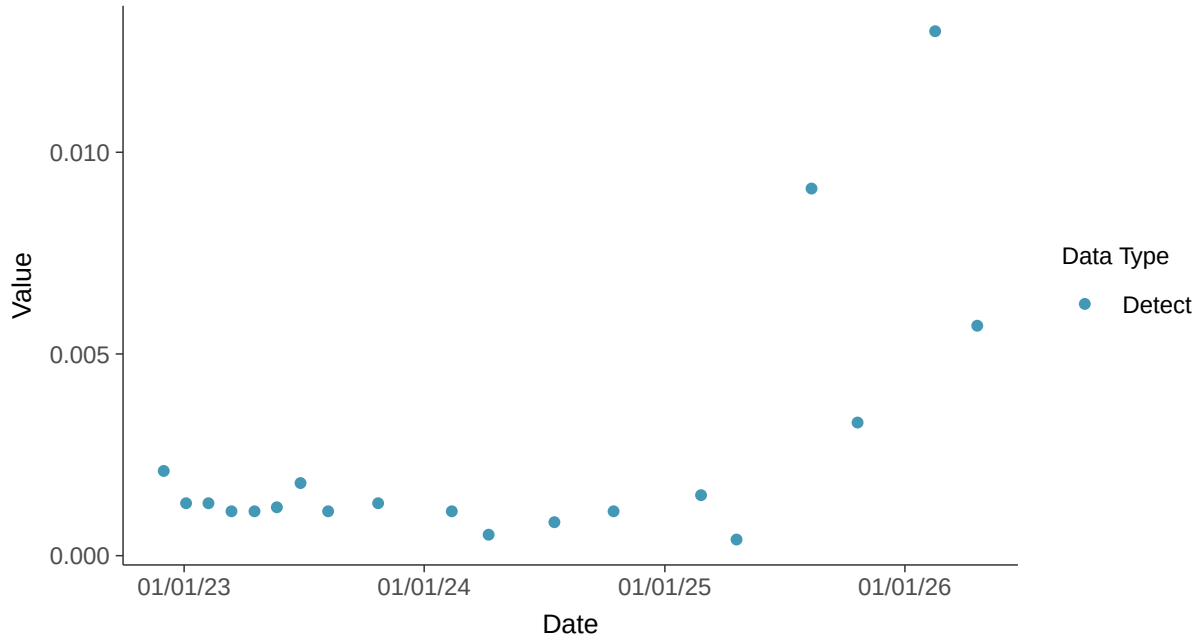


Appendix IV: Molybdenum, MW-31

ID: 41_1_4_118

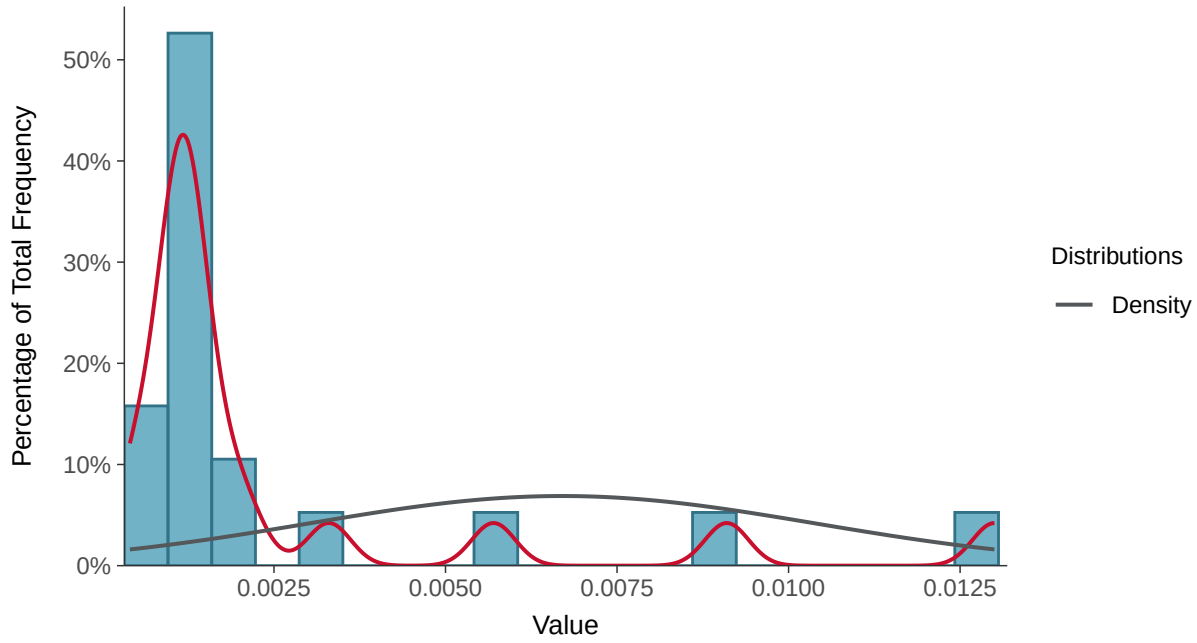
Scatter Plot

Molybdenum, MW-31 (mg/L)



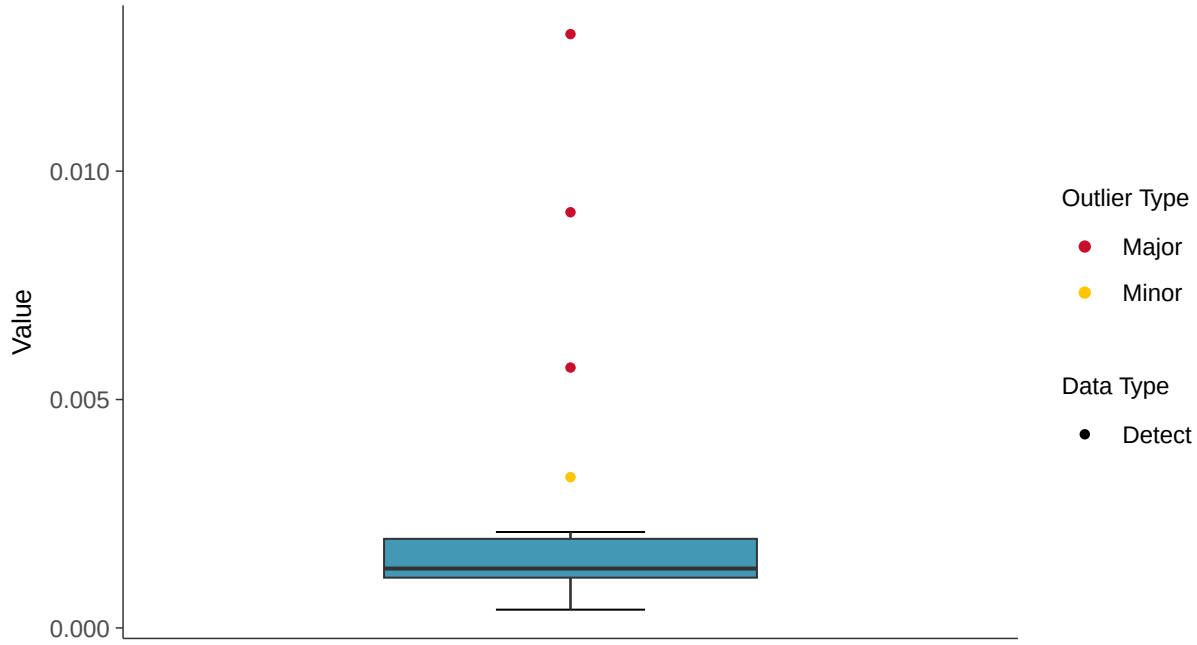
Histogram

Molybdenum, MW-31 (mg/L)



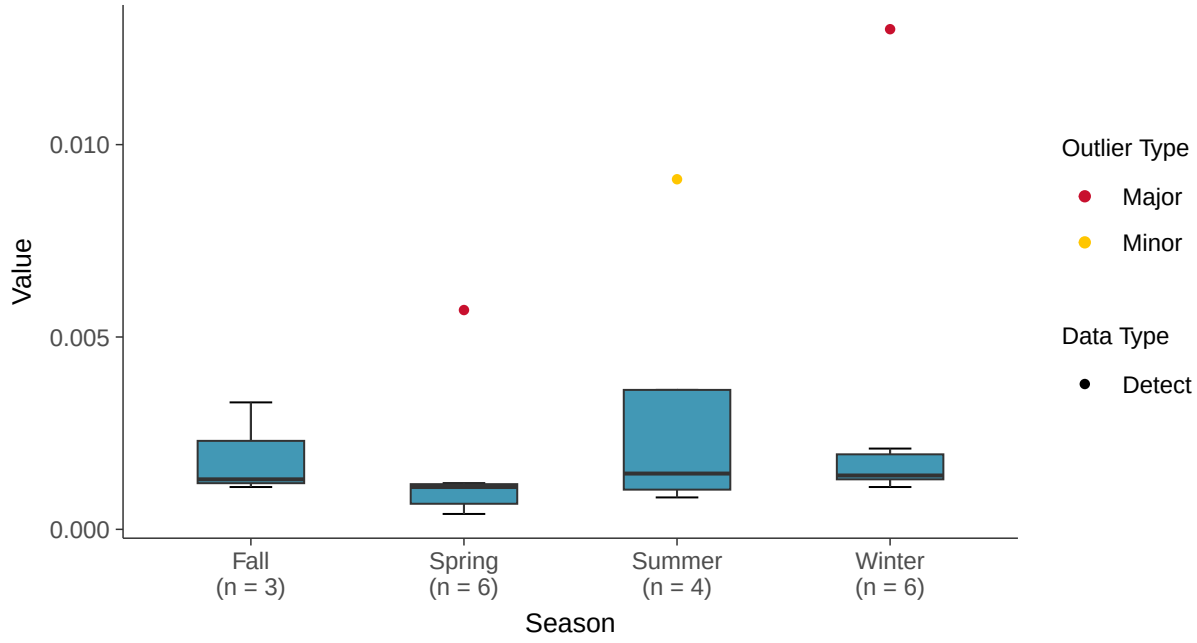
Boxplot

Molybdenum, MW-31 (mg/L)



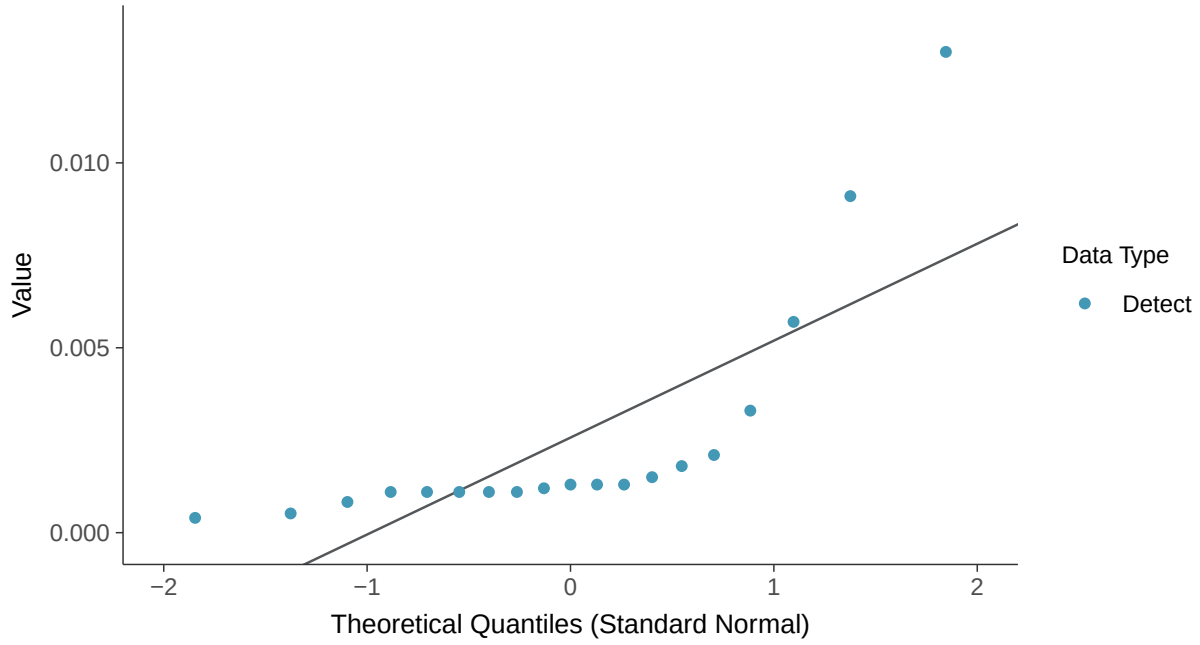
Boxplot by Season

Molybdenum, MW-31 (mg/L)



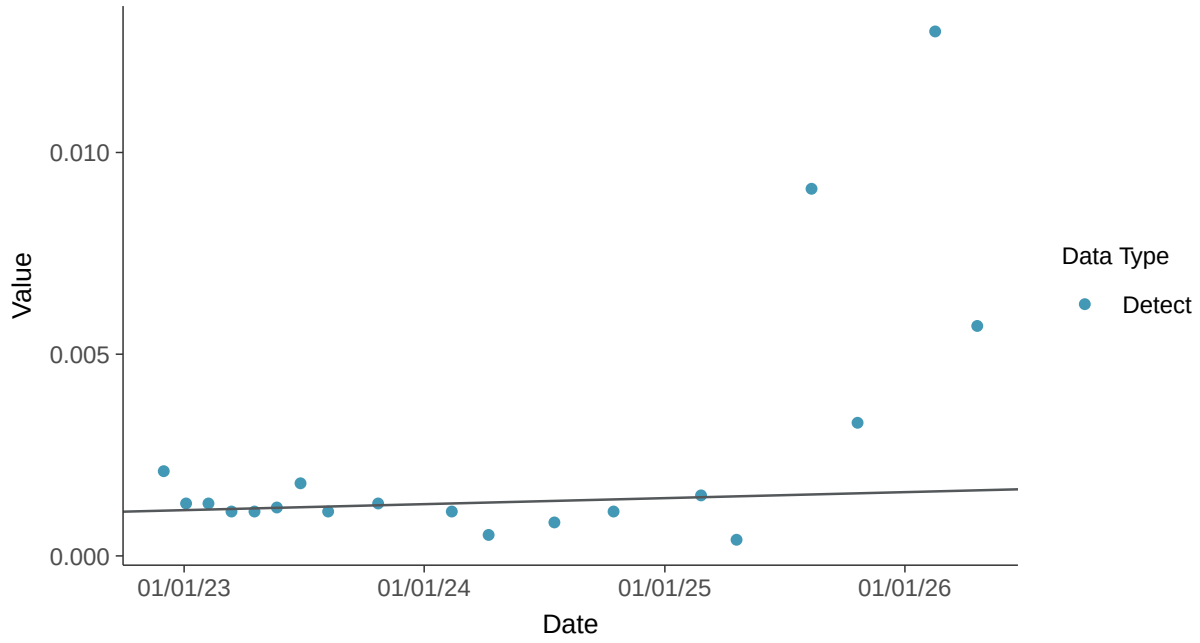
Normal Q-Q plot

Molybdenum, MW-31 (mg/L)



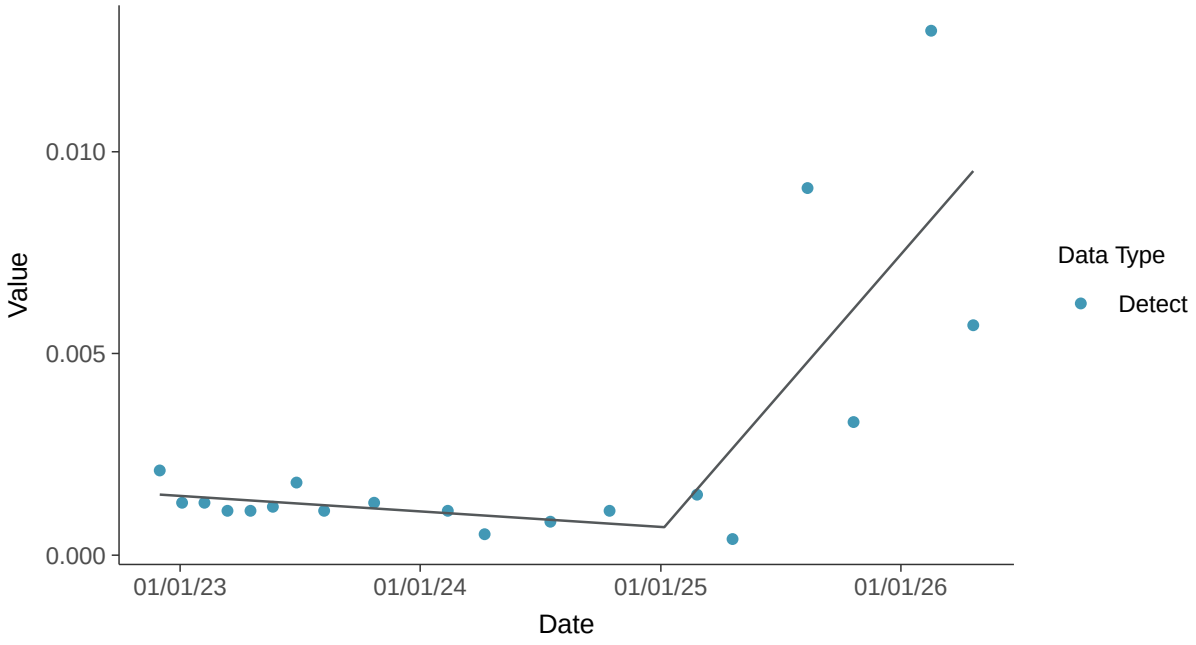
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Molybdenum, MW-31 (mg/L)



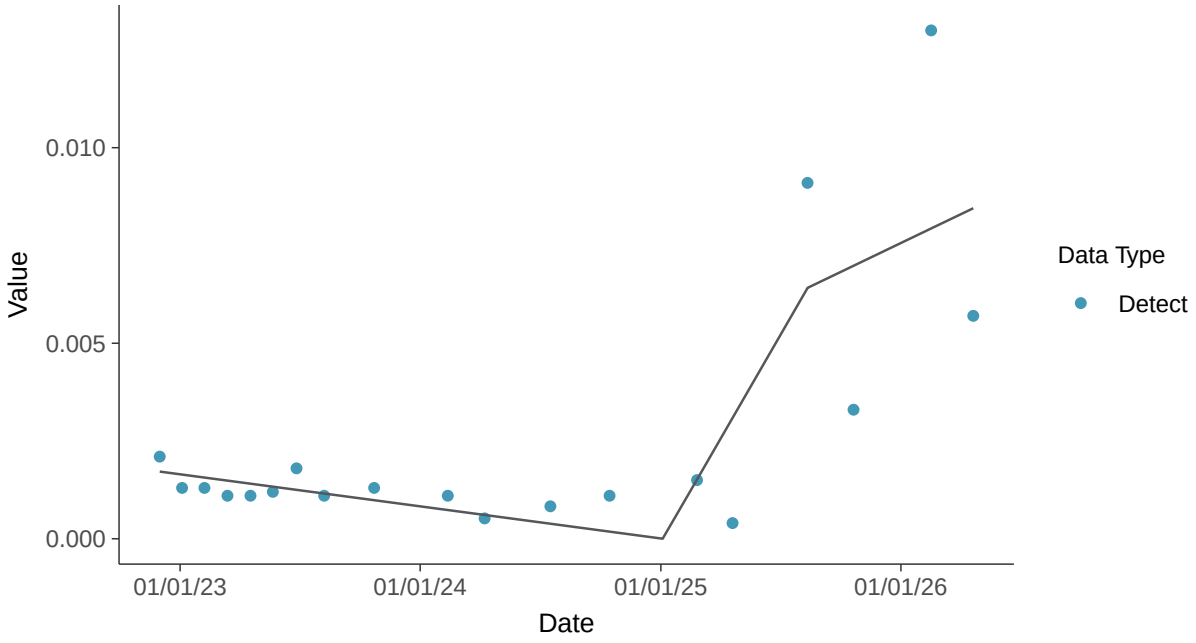
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-31 (mg/L)

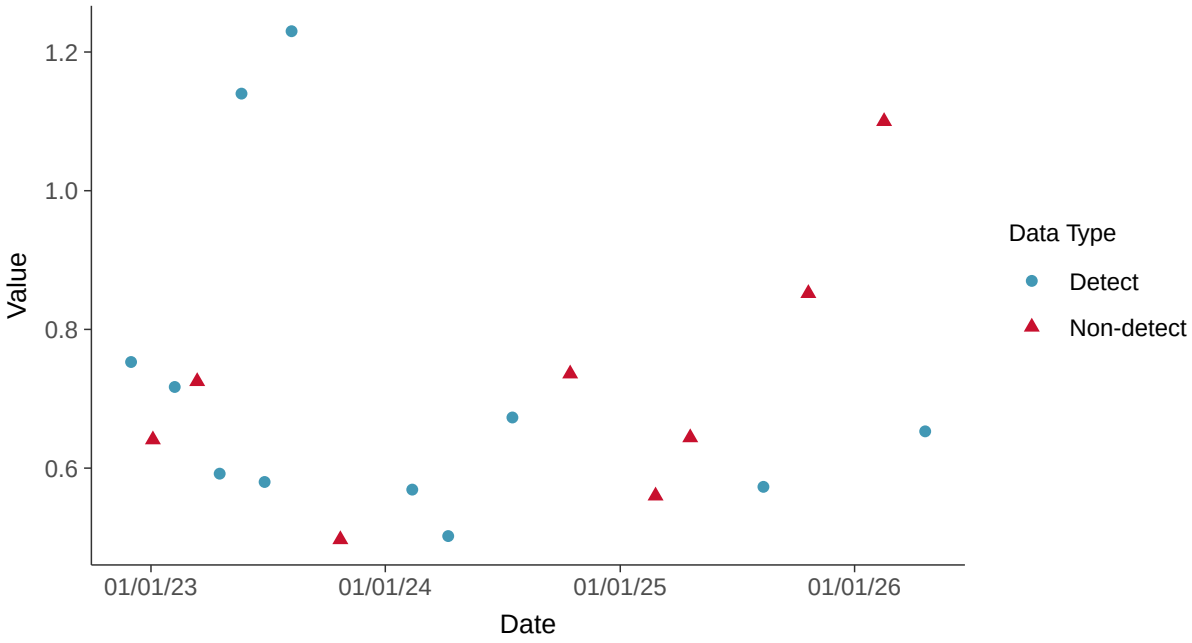


Appendix IV: Radium 226 and 228, MW-31

ID: 41_1_4_121

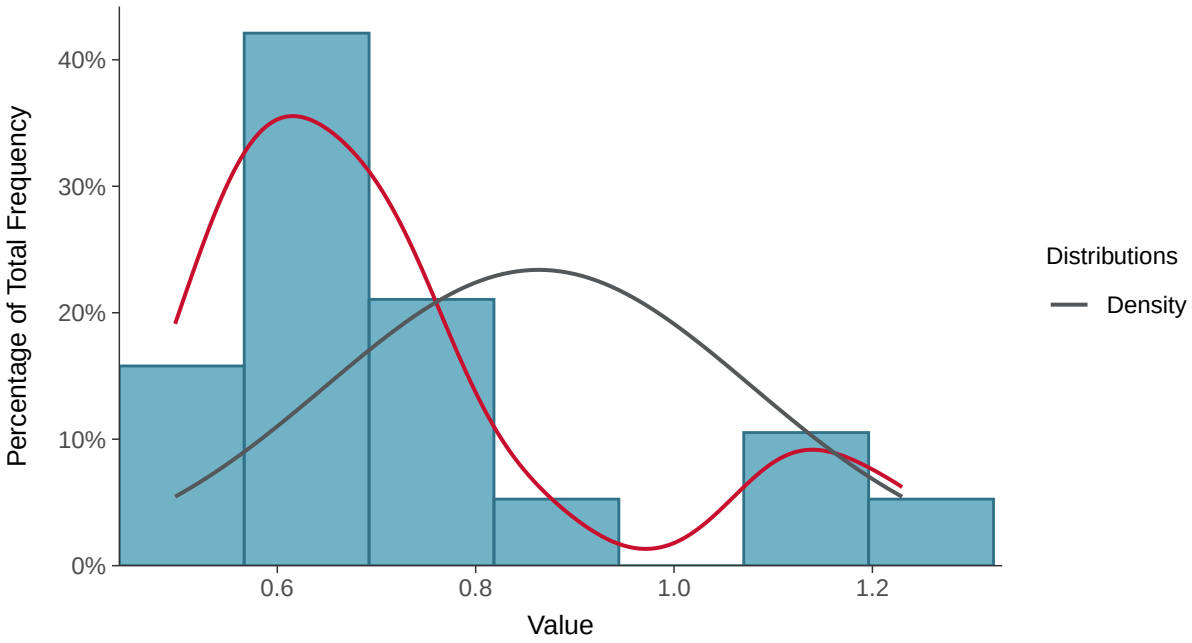
Scatter Plot

Radium 226 and 228, MW-31 (pCi/L)



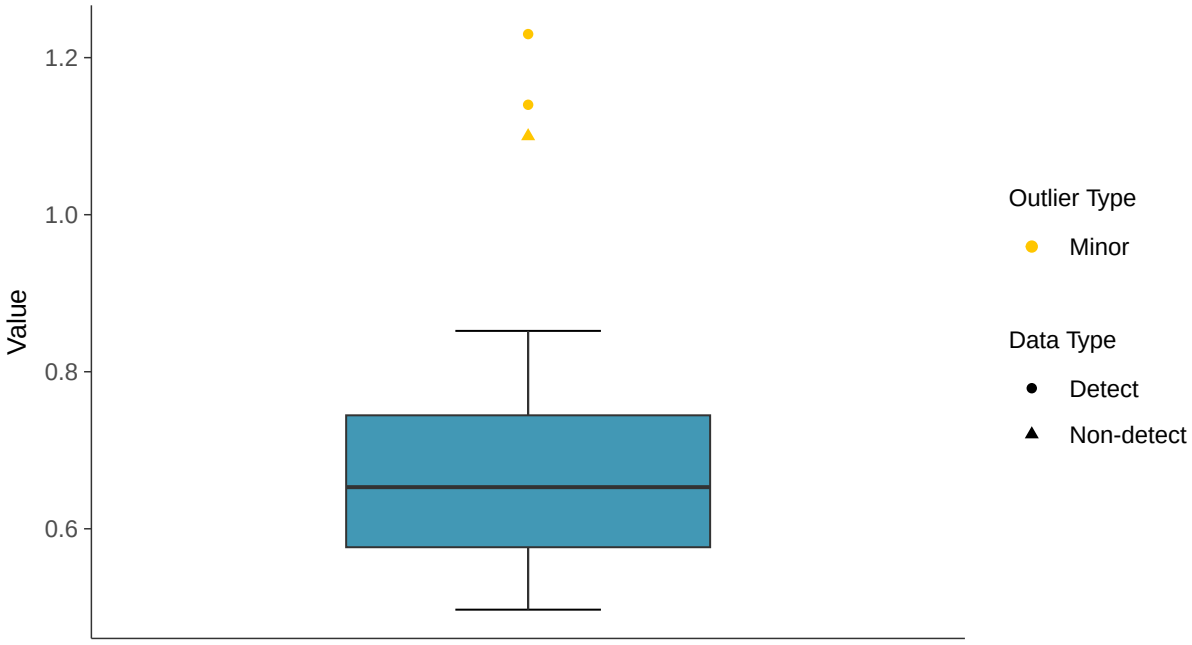
Histogram

Radium 226 and 228, MW-31 (pCi/L)



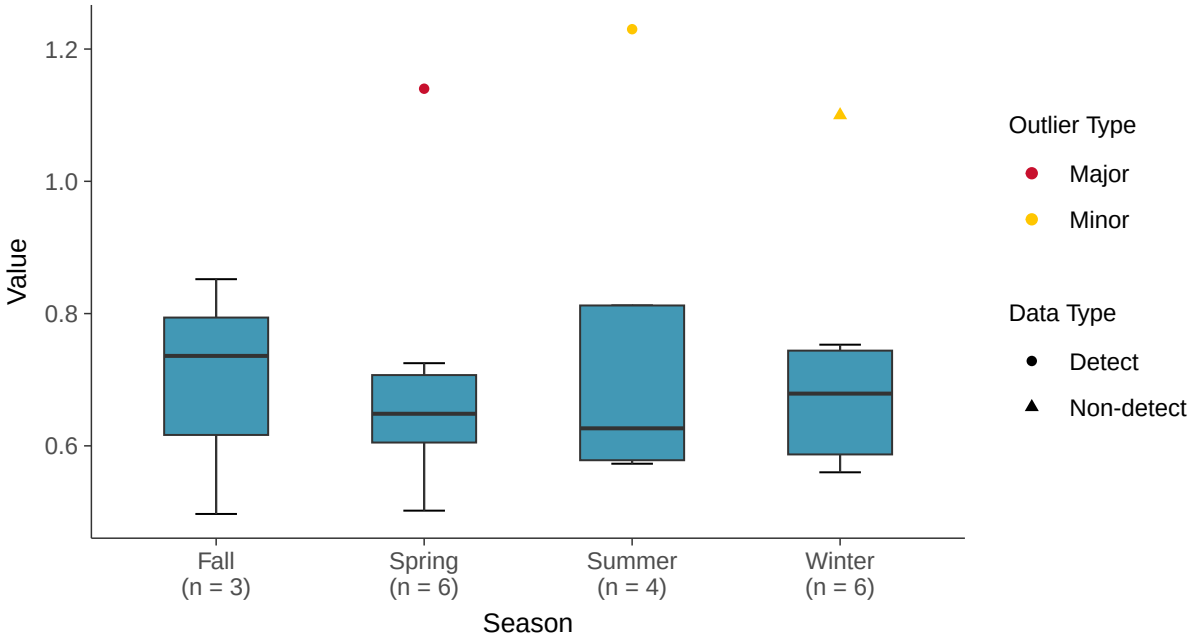
Boxplot

Radium 226 and 228, MW-31 (pCi/L)



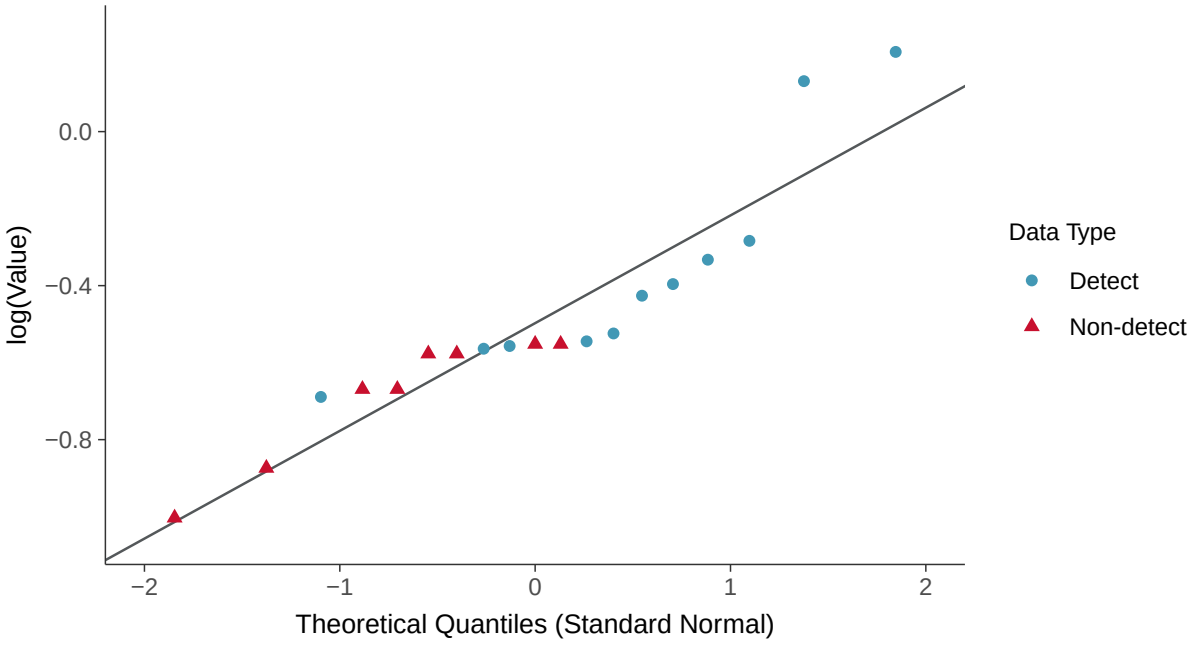
Boxplot by Season

Radium 226 and 228, MW-31 (pCi/L)



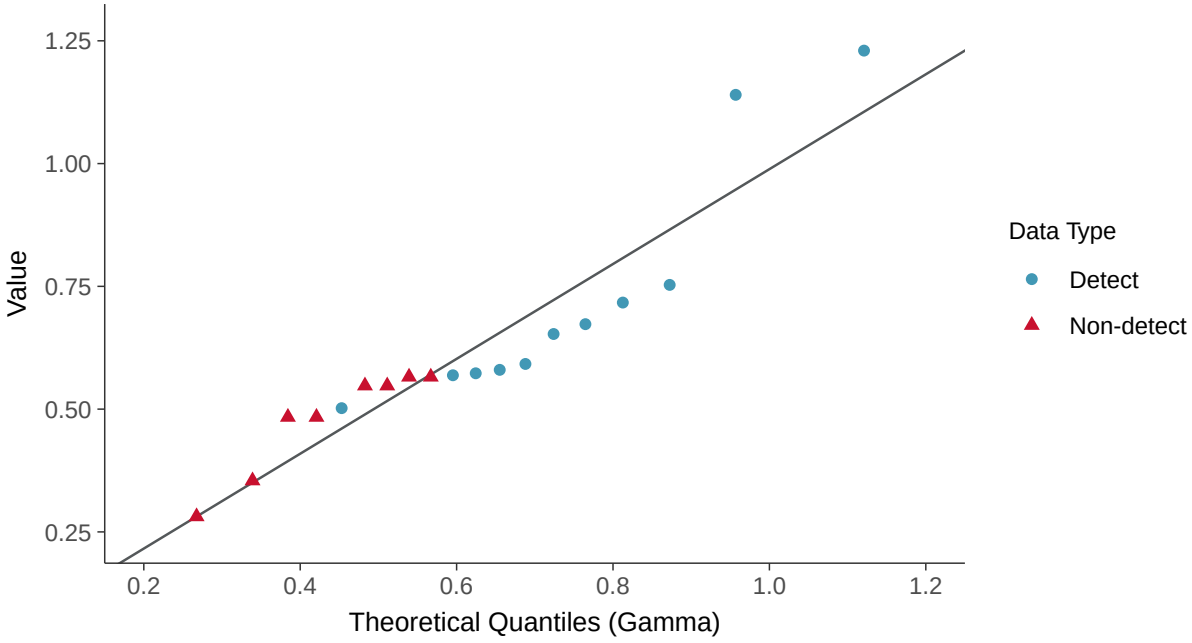
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-31 (pCi/L)



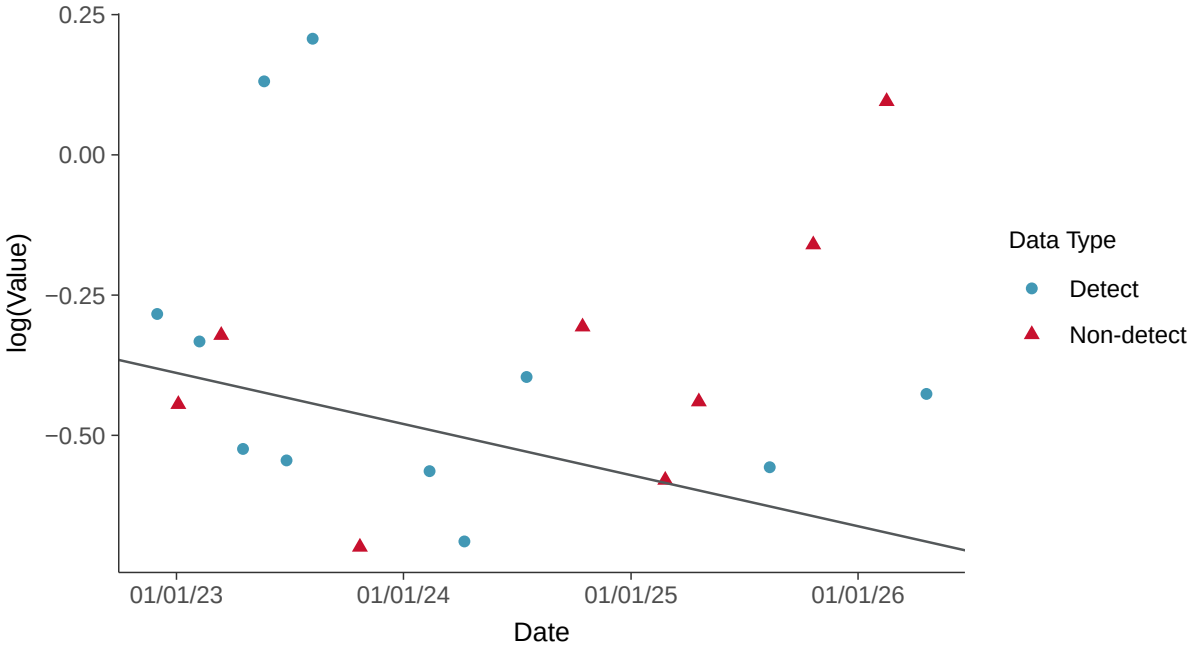
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-31 (pCi/L)



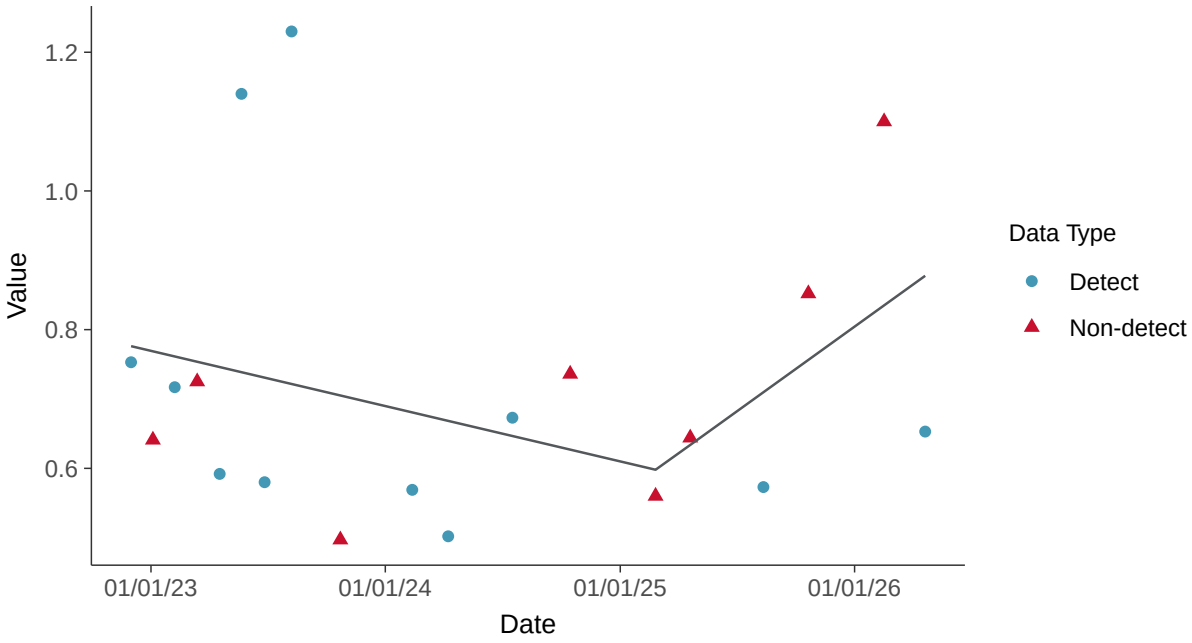
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-31 (pCi/L)



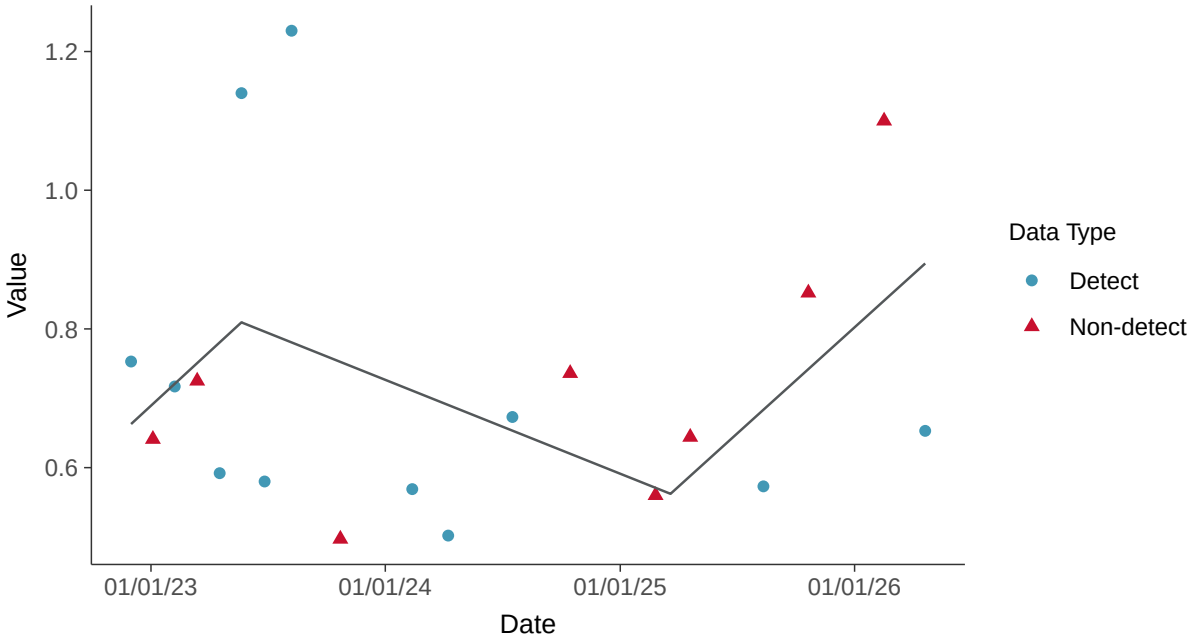
Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-31 (pCi/L)



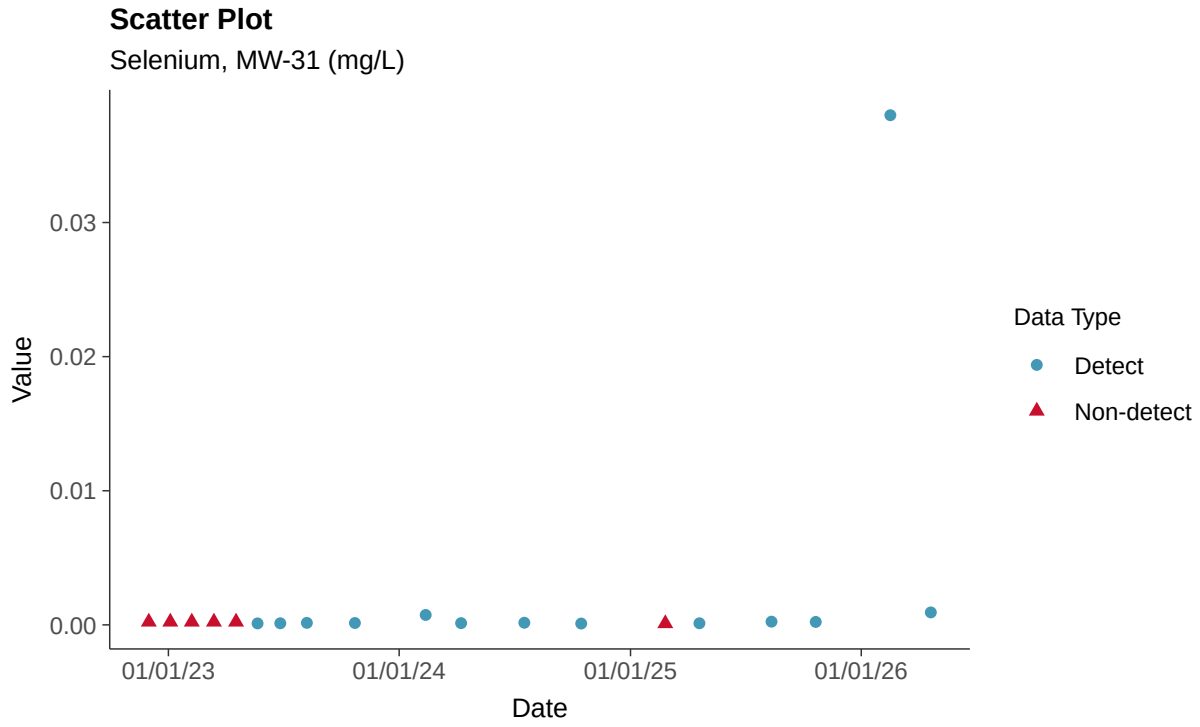
Trend Regression: Piecewise Linear-Linear-Linear

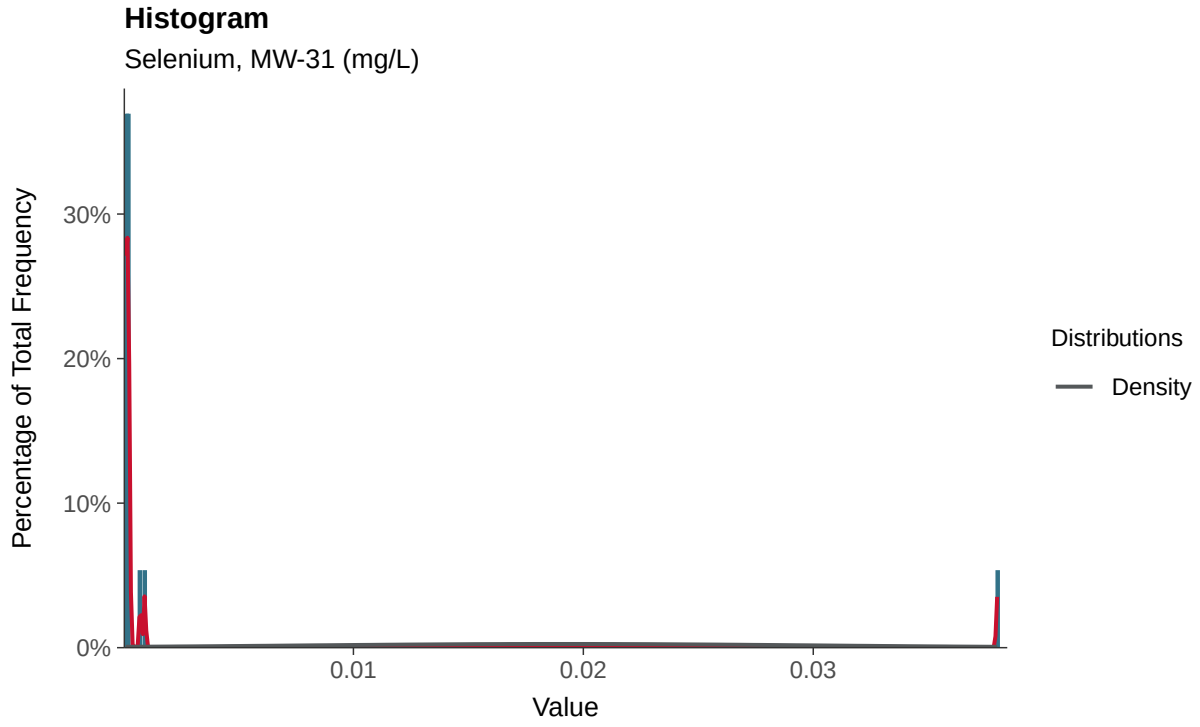
Radium 226 and 228, MW-31 (pCi/L)



Appendix IV: Selenium, MW-31

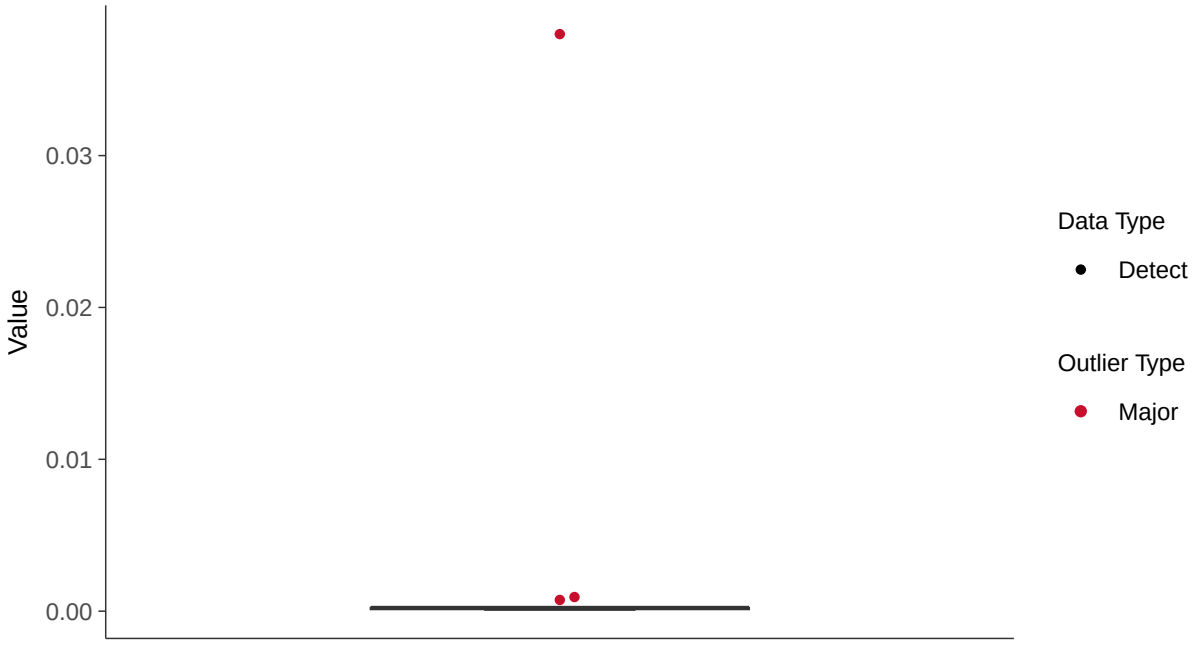
ID: 41_1_4_122





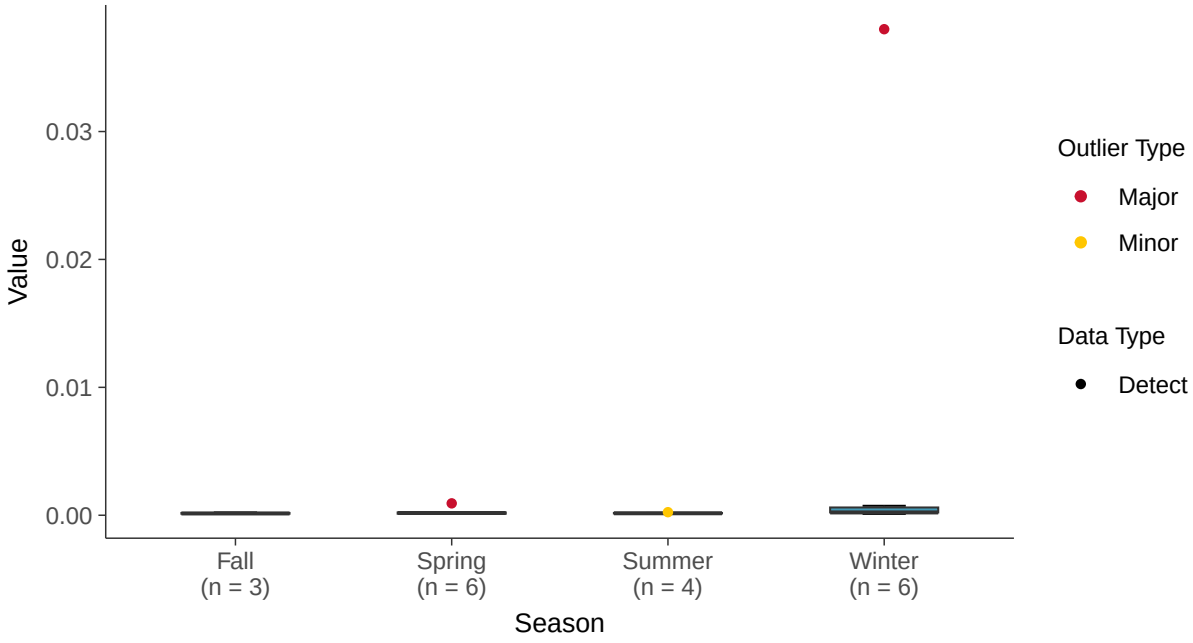
Boxplot

Selenium, MW-31 (mg/L)



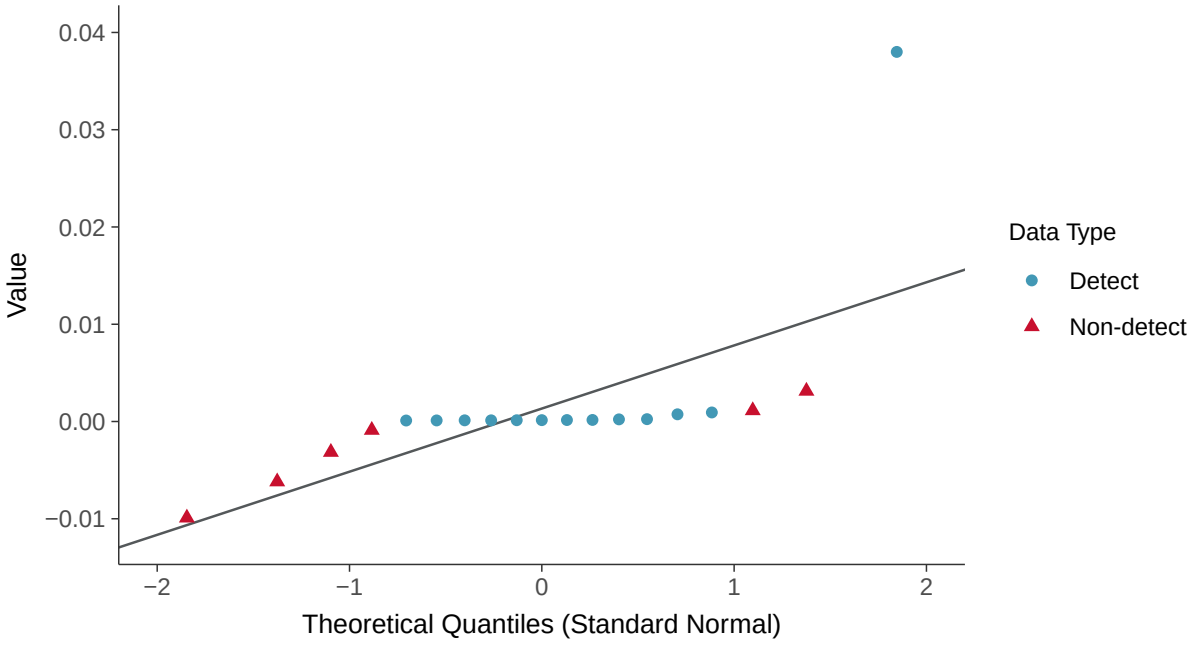
Boxplot by Season

Selenium, MW-31 (mg/L)



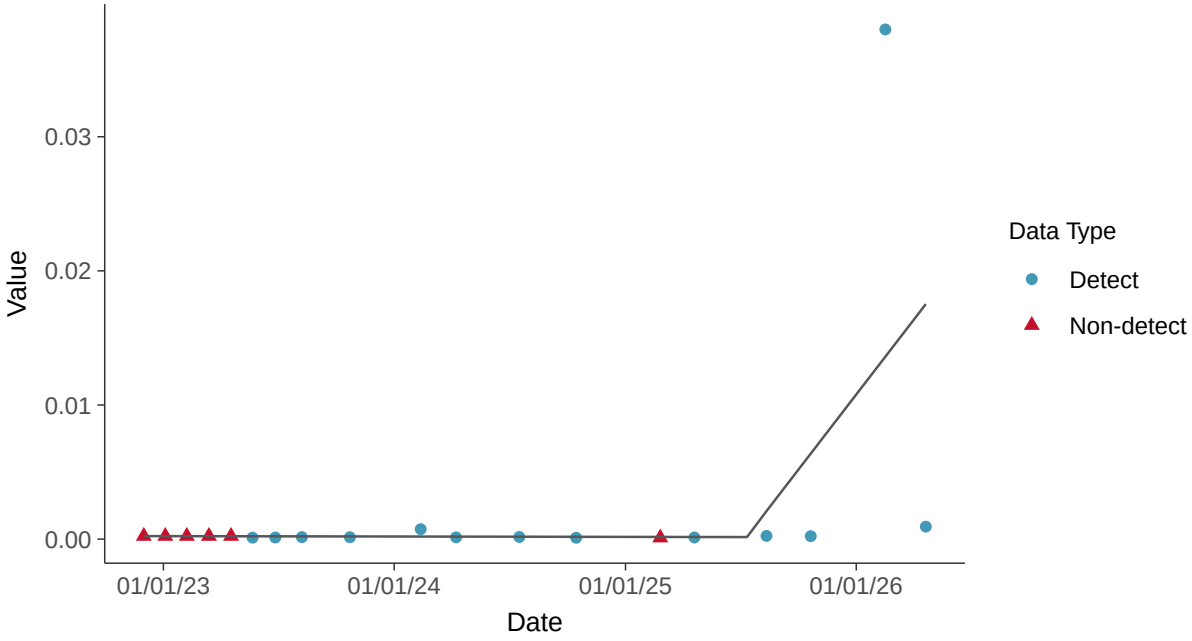
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-31 (mg/L)



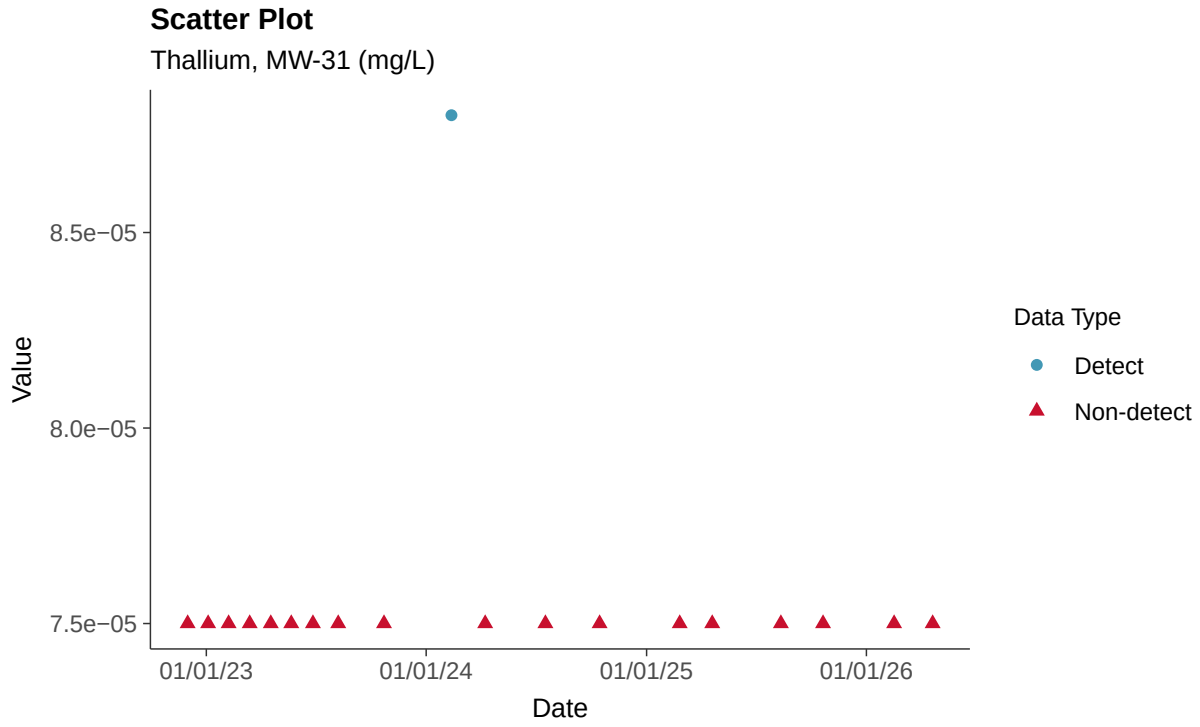
Trend Regression: Piecewise Linear-Linear

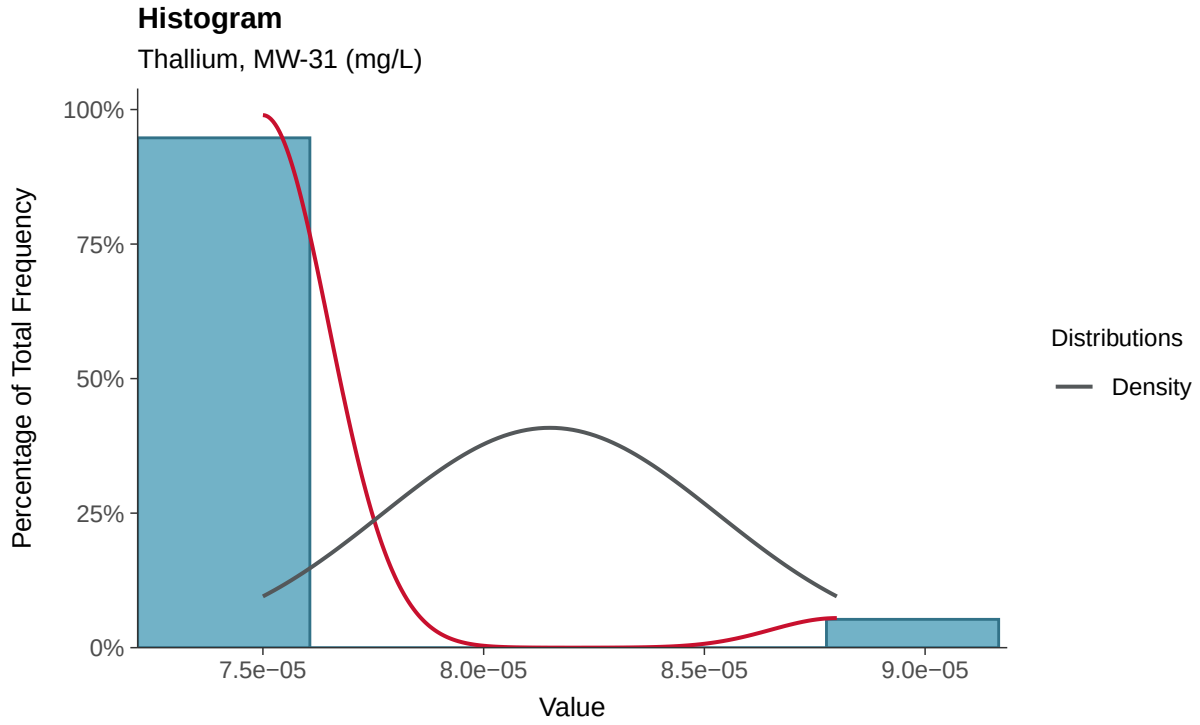
Selenium, MW-31 (mg/L)



Appendix IV: Thallium, MW-31

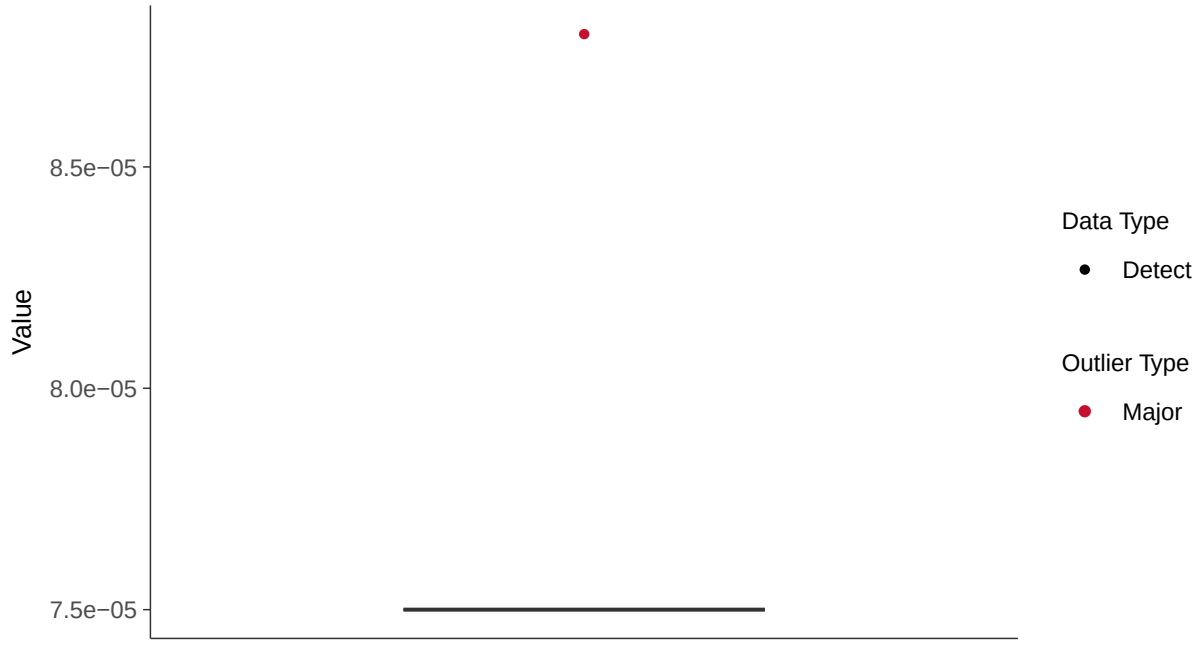
ID: 41_1_4_125





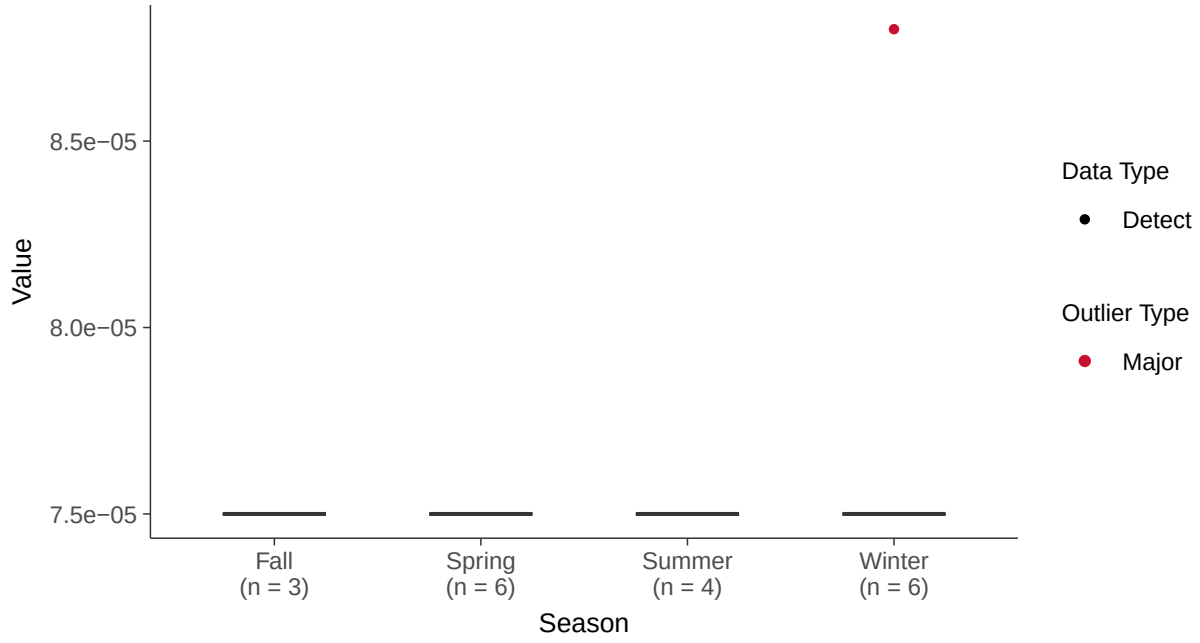
Boxplot

Thallium, MW-31 (mg/L)



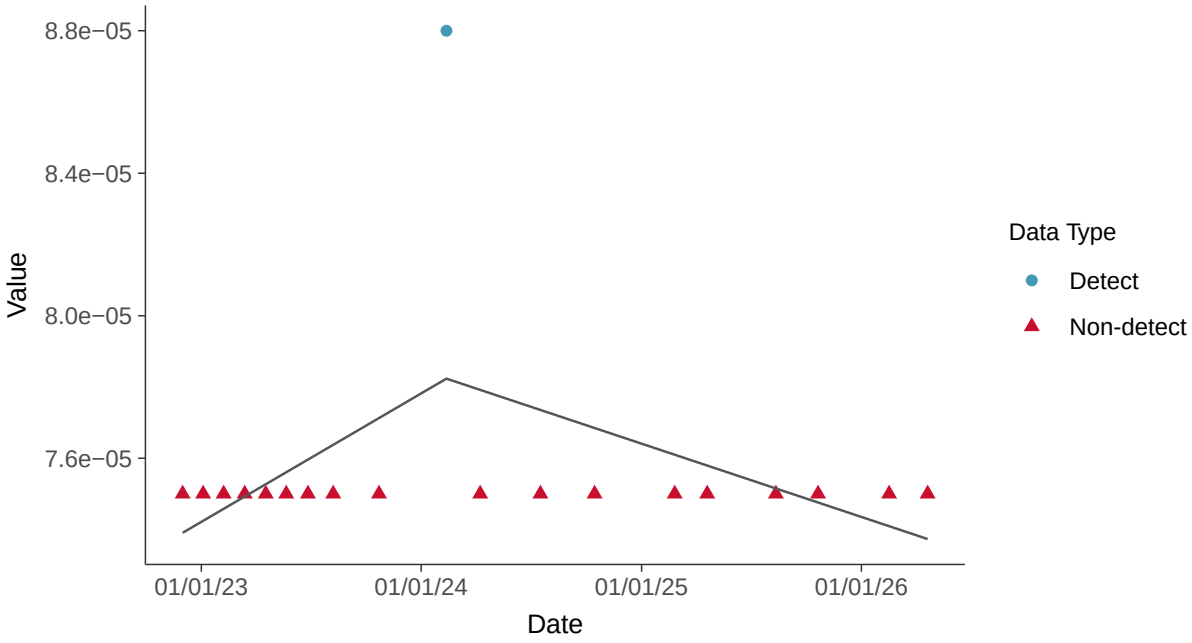
Boxplot by Season

Thallium, MW-31 (mg/L)



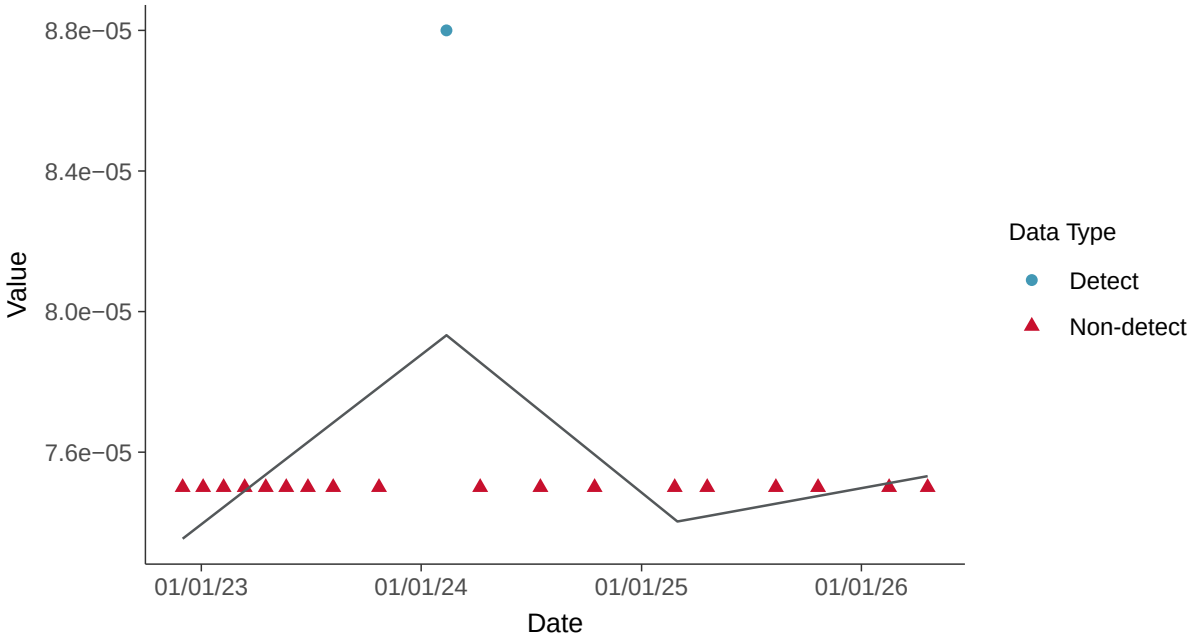
Trend Regression: Piecewise Linear-Linear

Thallium, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Thallium, MW-31 (mg/L)

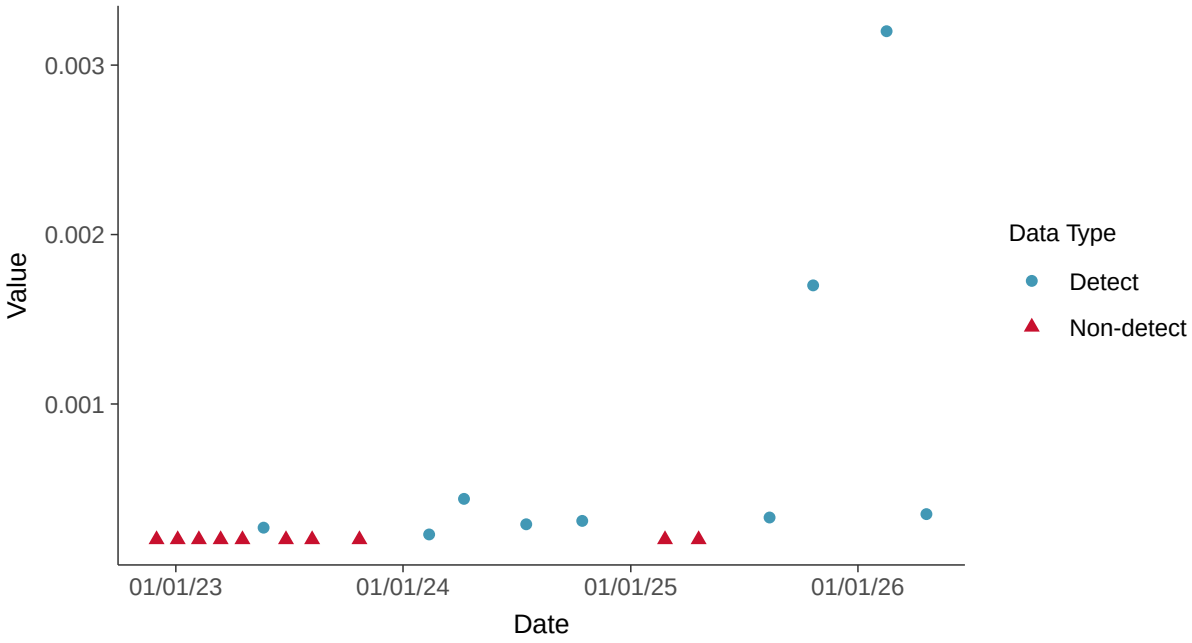


Part 115: Copper, MW-31

ID: 41_1_5_111

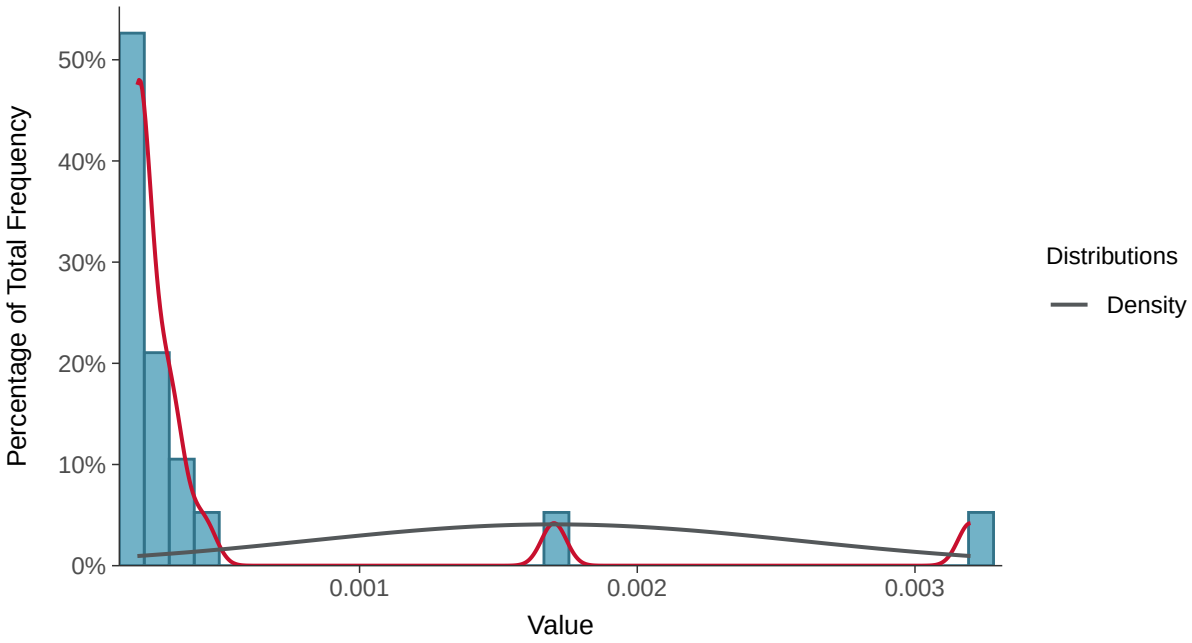
Scatter Plot

Copper, MW-31 (mg/L)



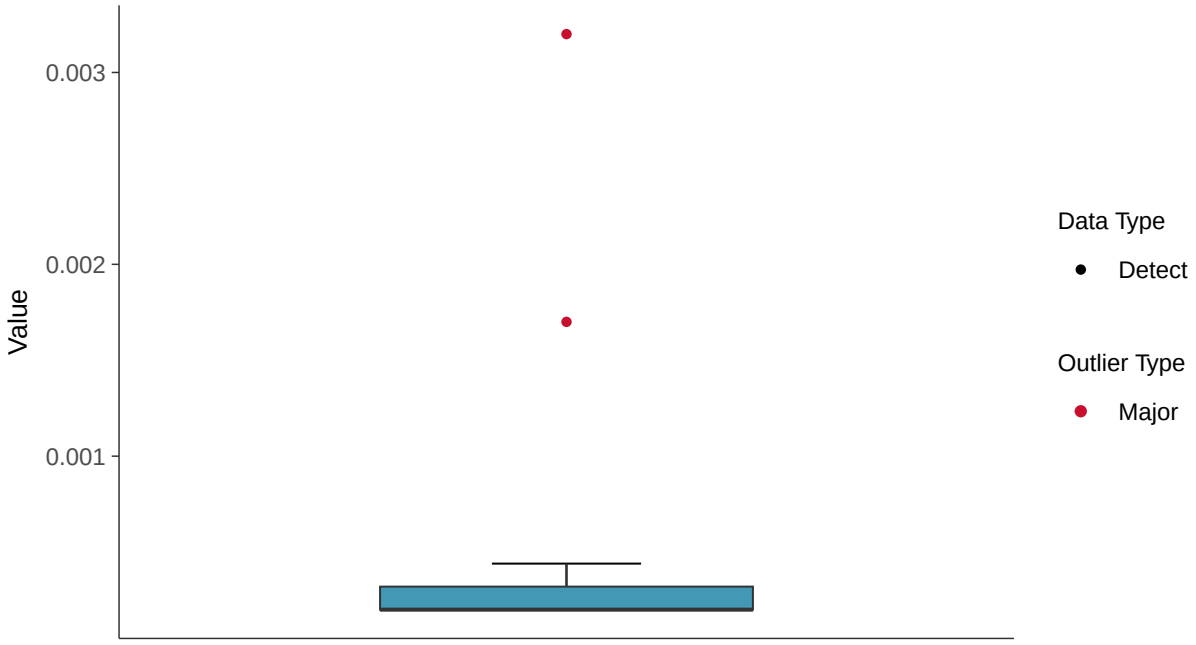
Histogram

Copper, MW-31 (mg/L)



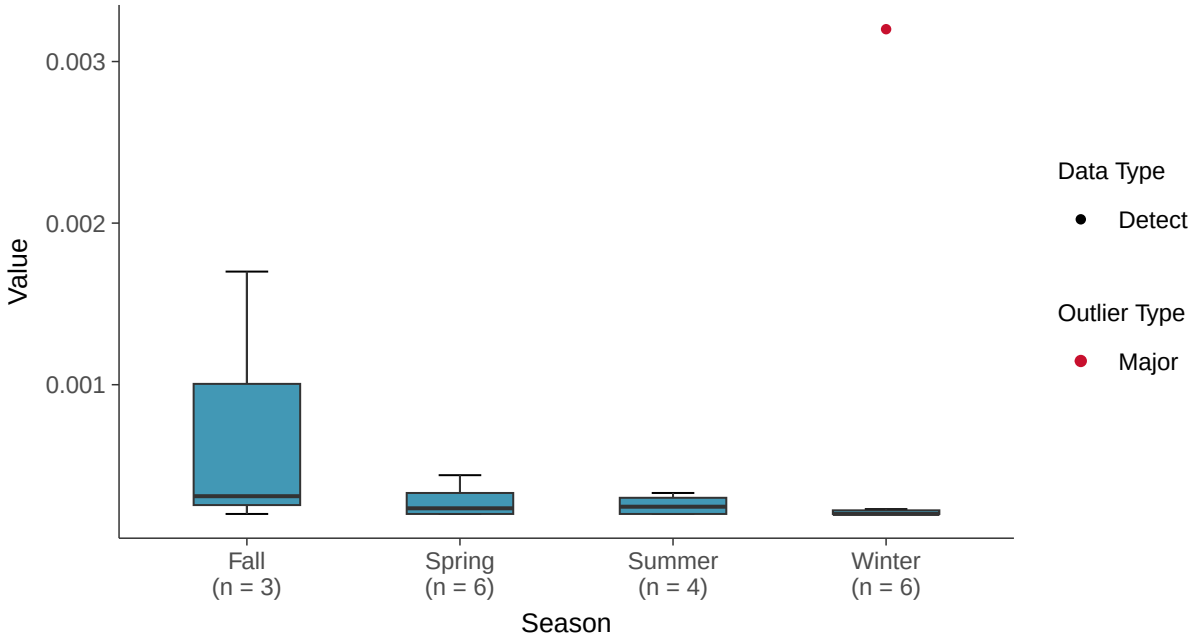
Boxplot

Copper, MW-31 (mg/L)



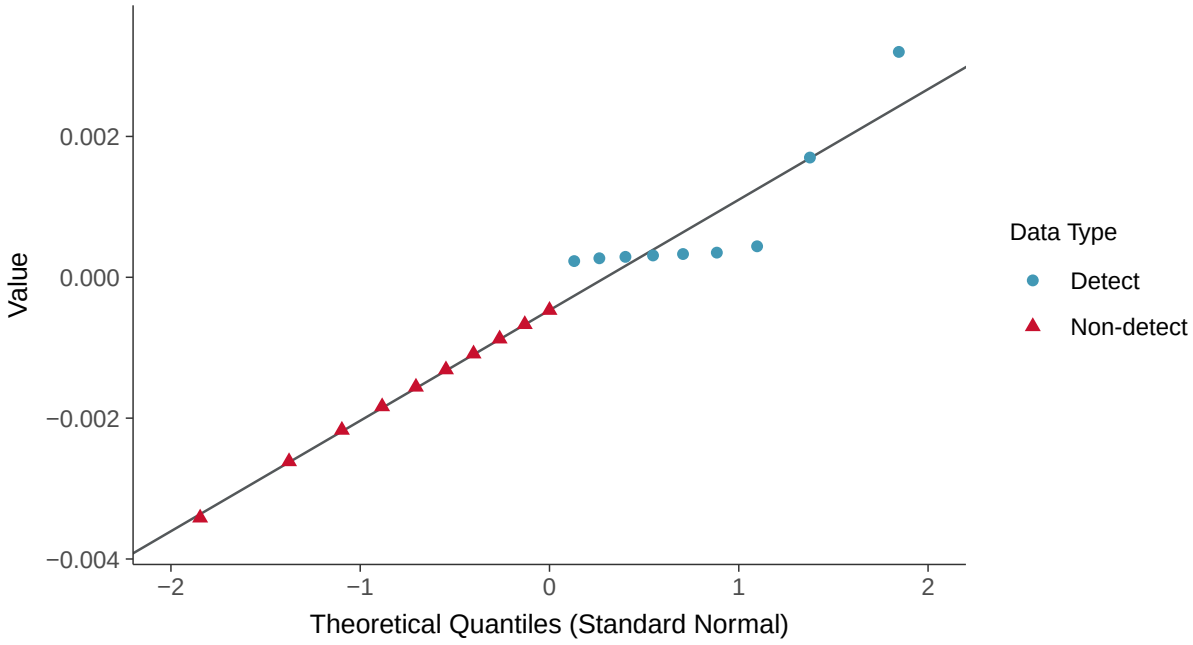
Boxplot by Season

Copper, MW-31 (mg/L)



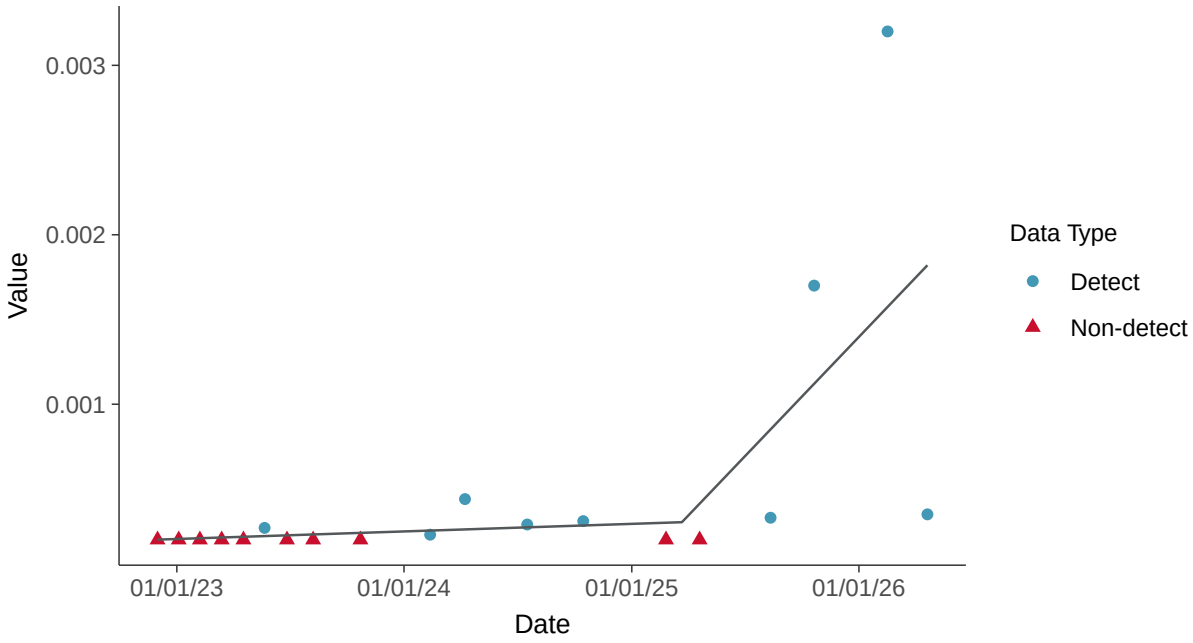
Normal Q-Q plot using ROS Imputed Estimates

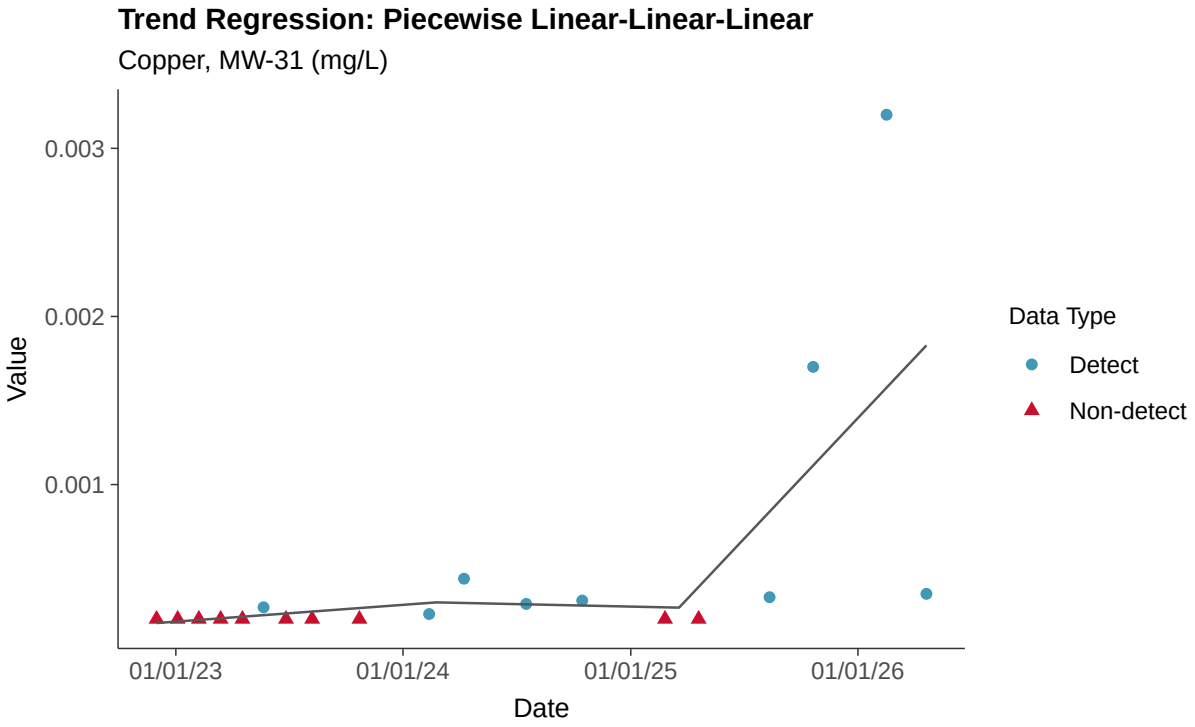
Copper, MW-31 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-31 (mg/L)



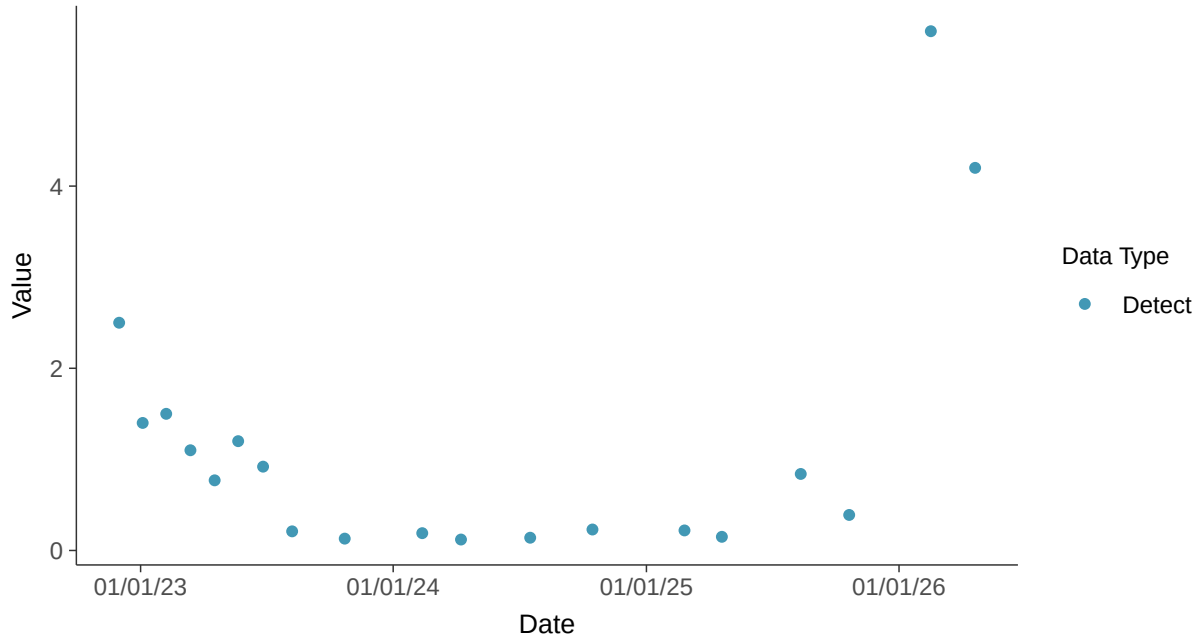

Trend Regression: Piecewise Linear-Linear-Linear
Copper, MW-31 (mg/L)
0.003
0.002
0.001
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Iron, MW-31

ID: 41_1_5_114

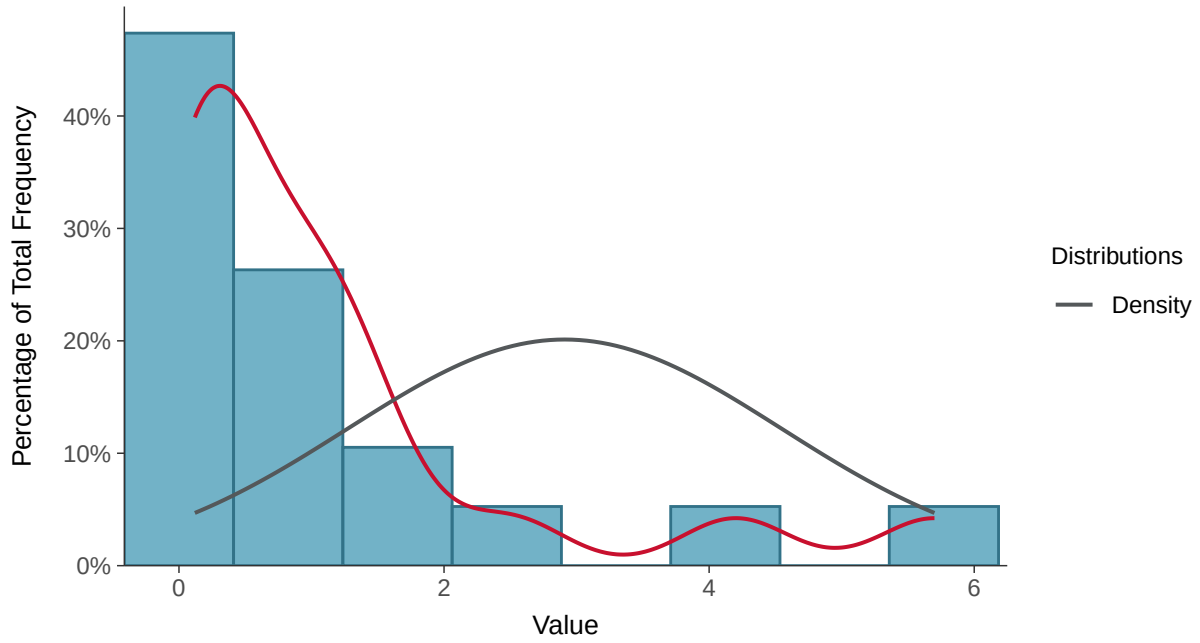
Scatter Plot

Iron, MW-31 (mg/L)



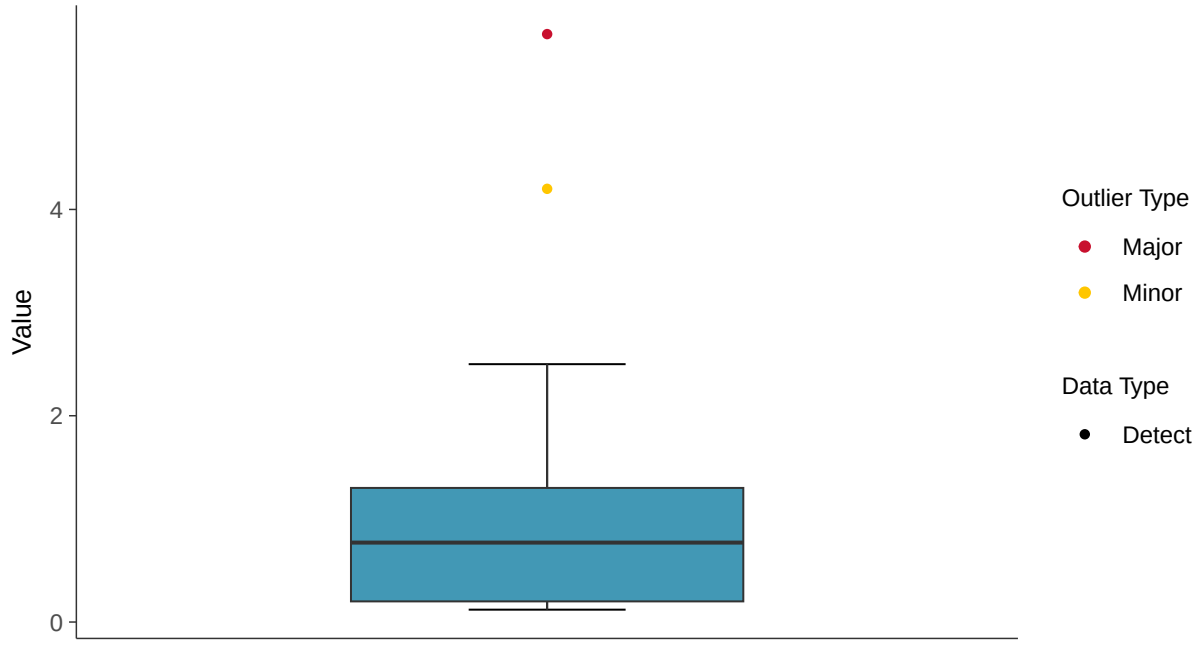
Histogram

Iron, MW-31 (mg/L)



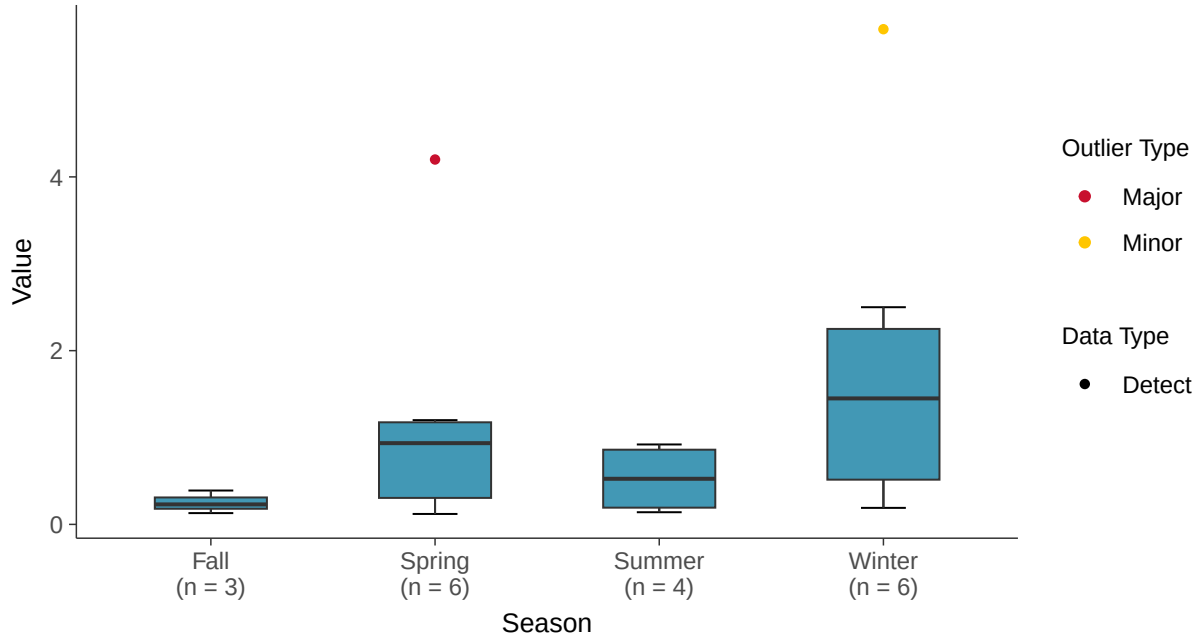
Boxplot

Iron, MW-31 (mg/L)



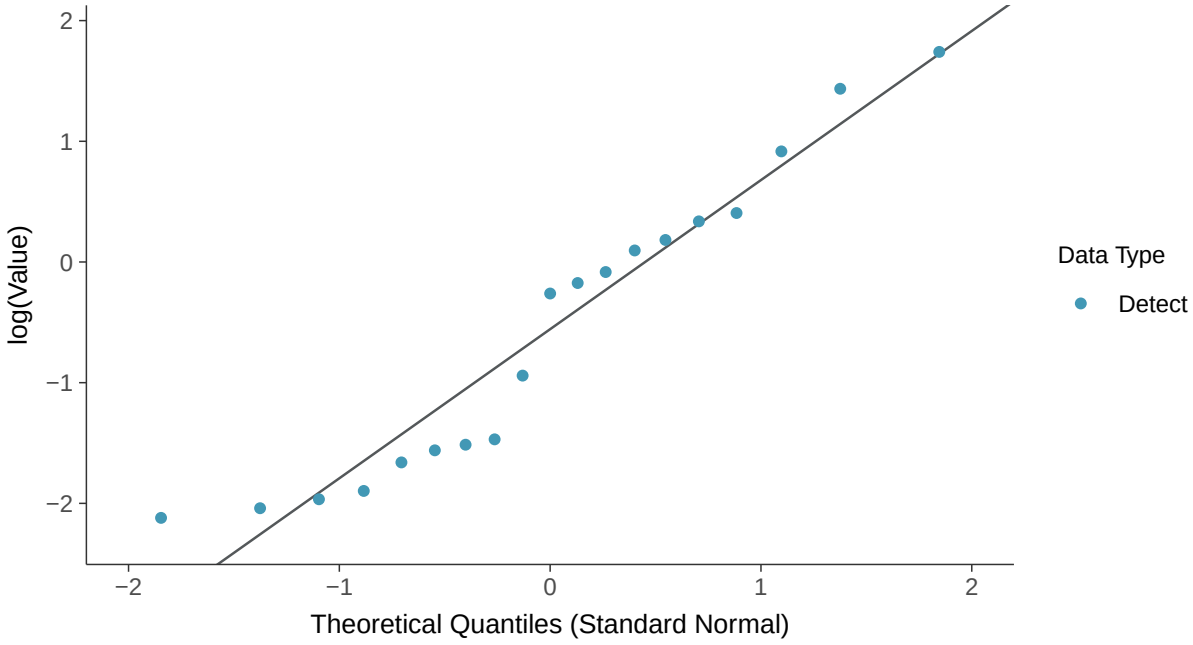
Boxplot by Season

Iron, MW-31 (mg/L)



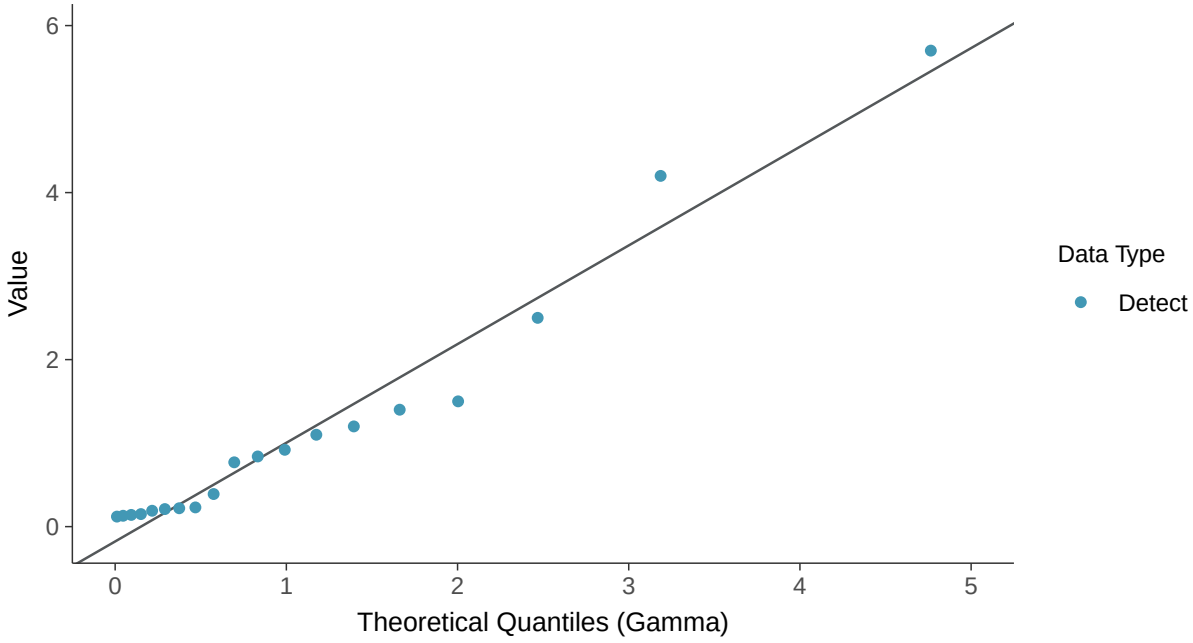
Lognormal Q-Q plot

Iron, MW-31 (mg/L)



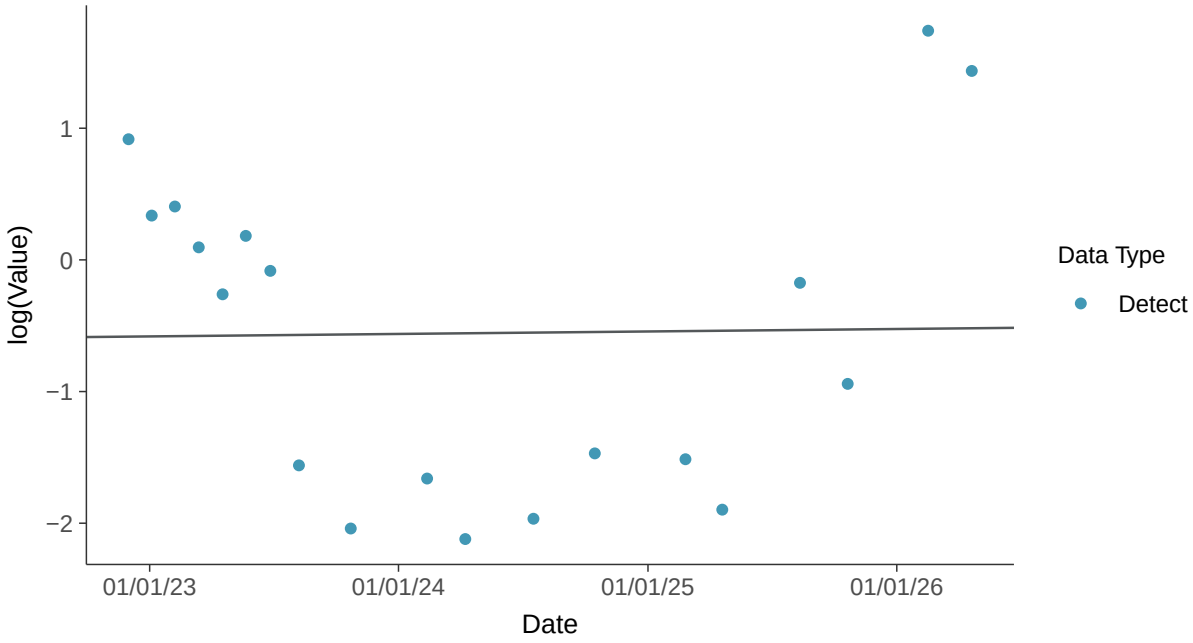
Gamma Q-Q plot

Iron, MW-31 (mg/L)



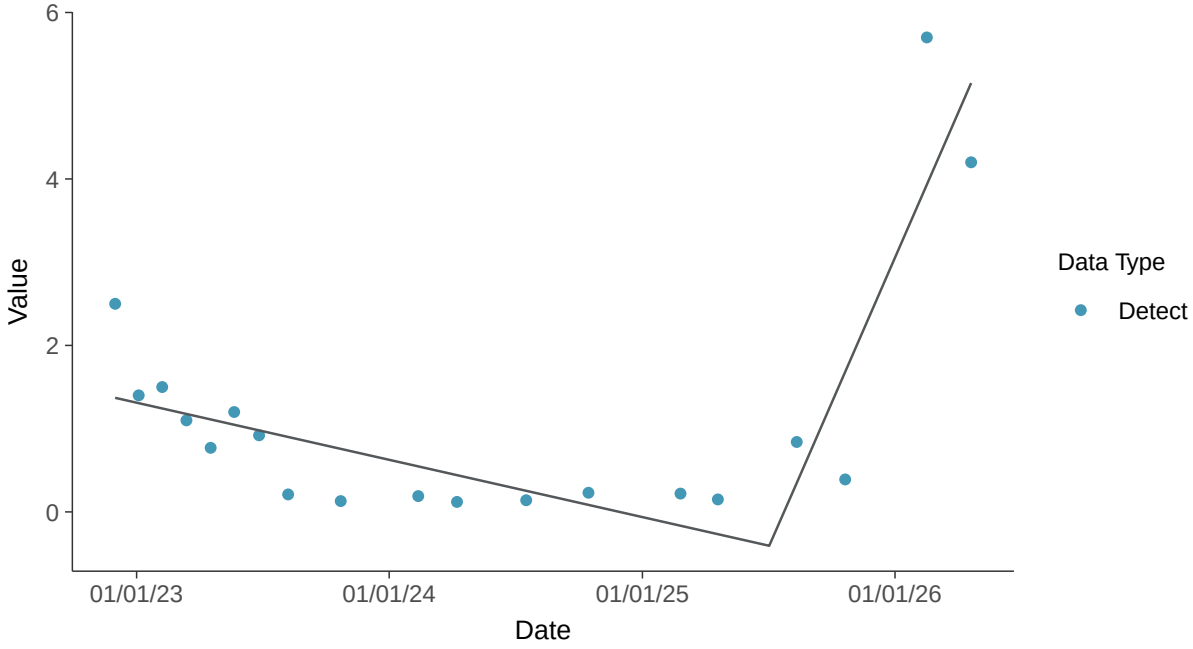
Trend Regression: Lognormal MLE

Iron, MW-31 (mg/L)



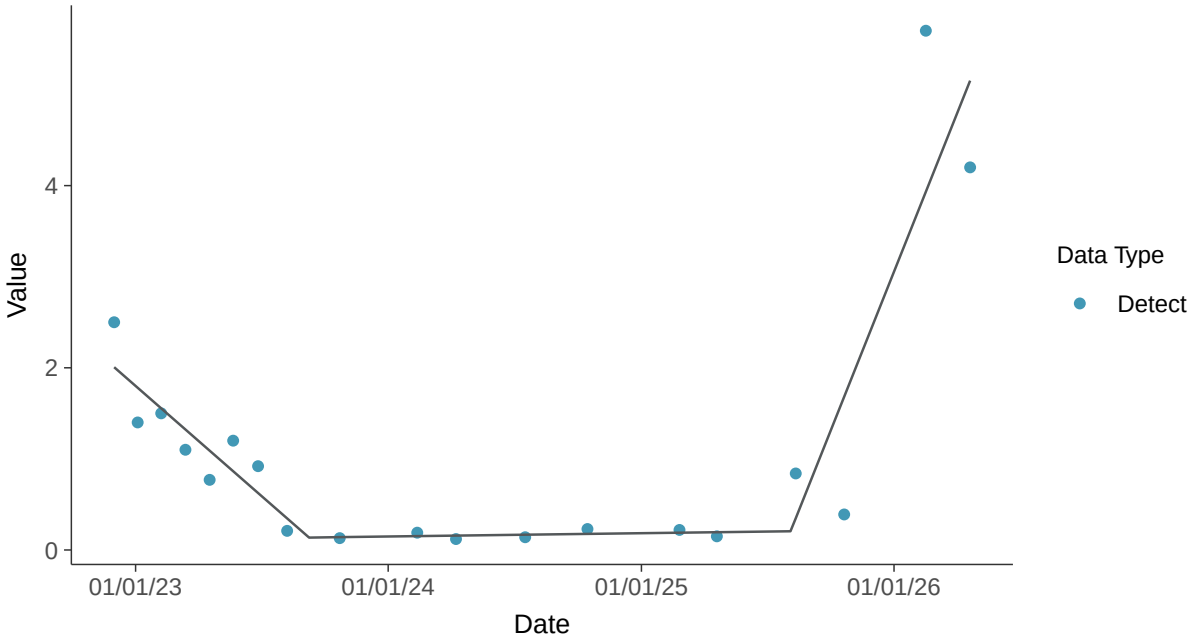
Trend Regression: Piecewise Linear-Linear

Iron, MW-31 (mg/L)



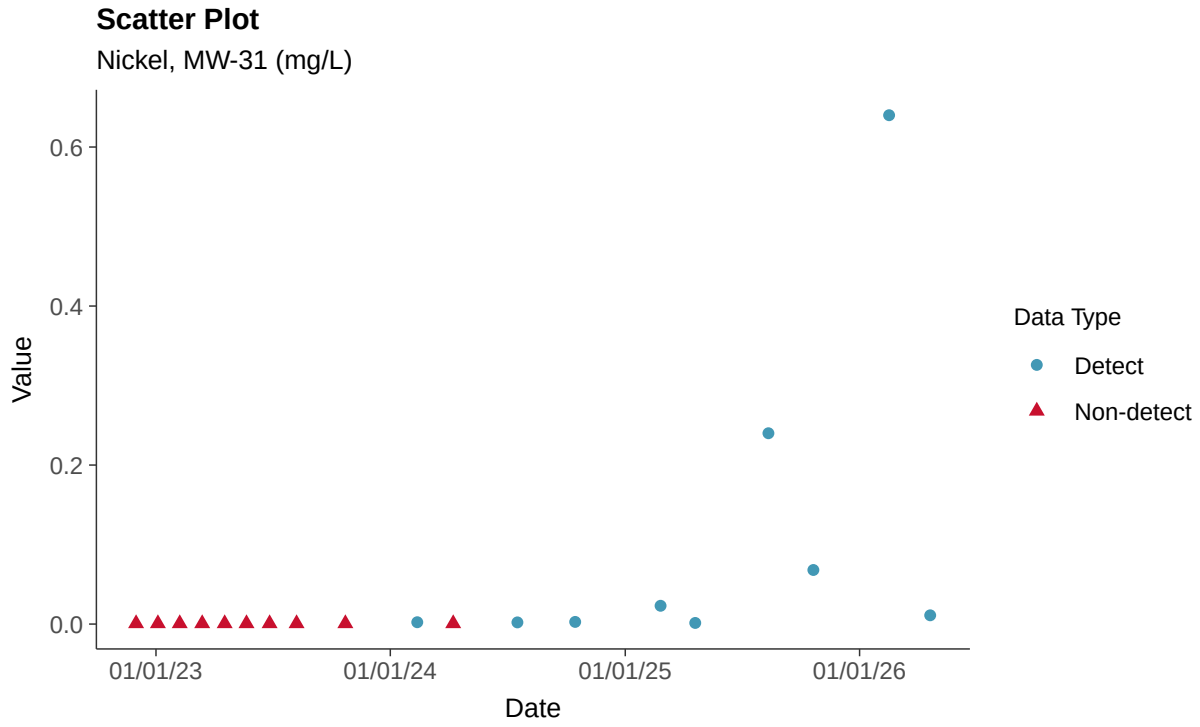
Trend Regression: Piecewise Linear-Linear-Linear

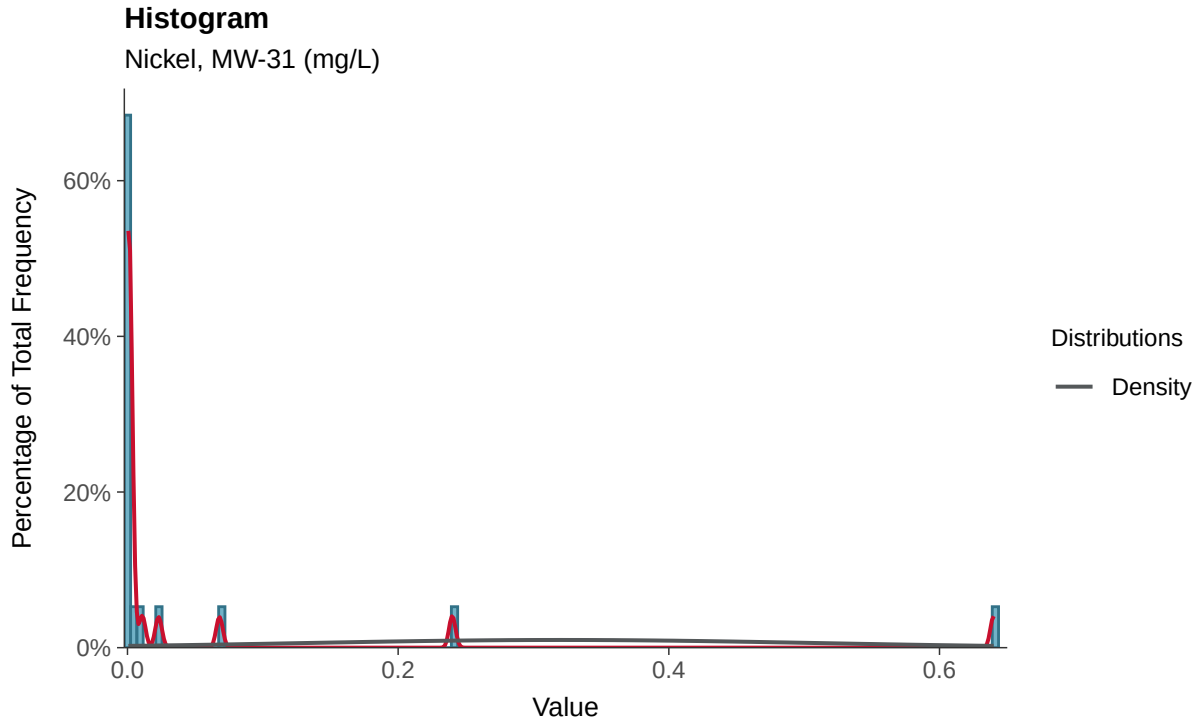
Iron, MW-31 (mg/L)



Part 115: Nickel, MW-31

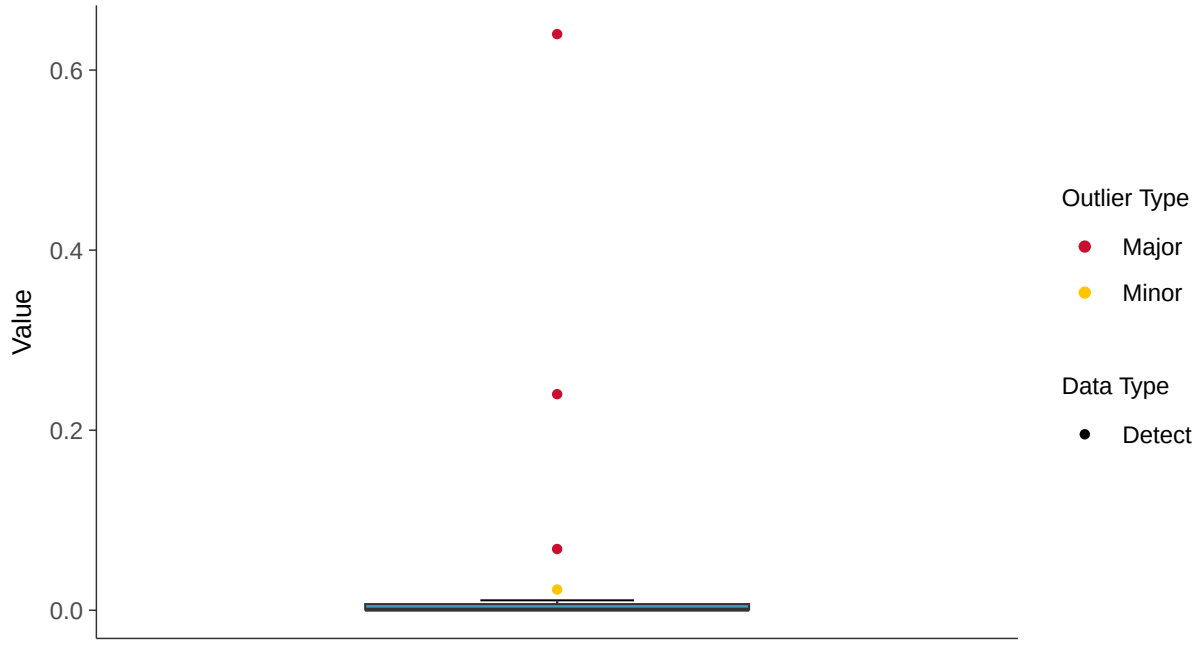
ID: 41_1_5_119





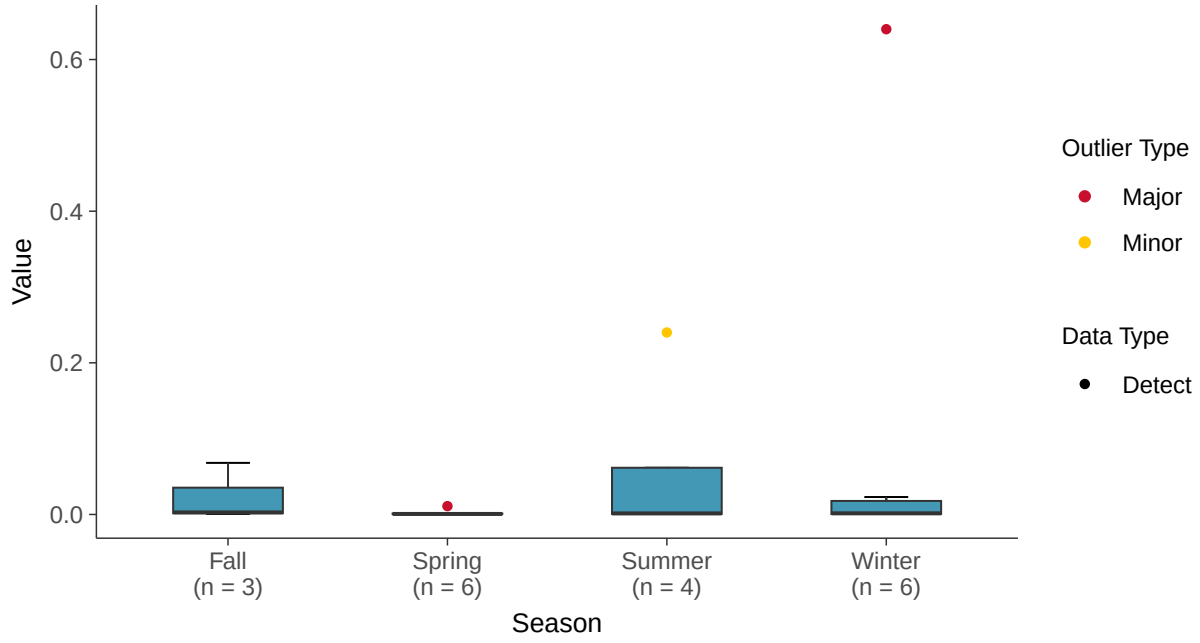
Boxplot

Nickel, MW-31 (mg/L)



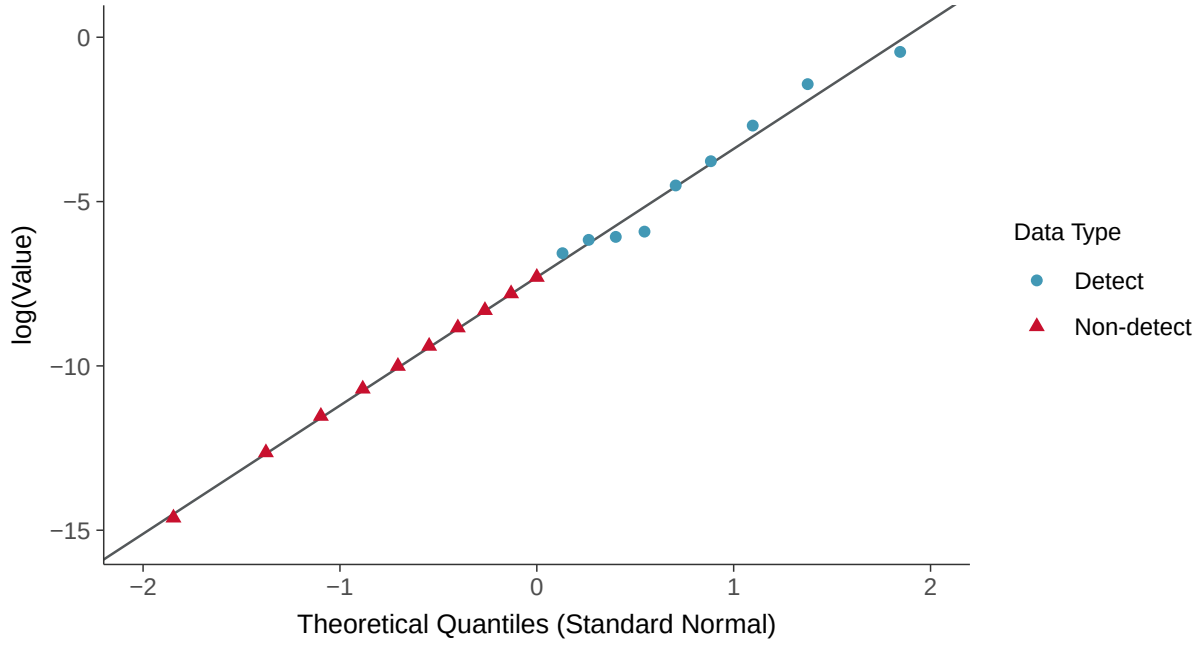
Boxplot by Season

Nickel, MW-31 (mg/L)



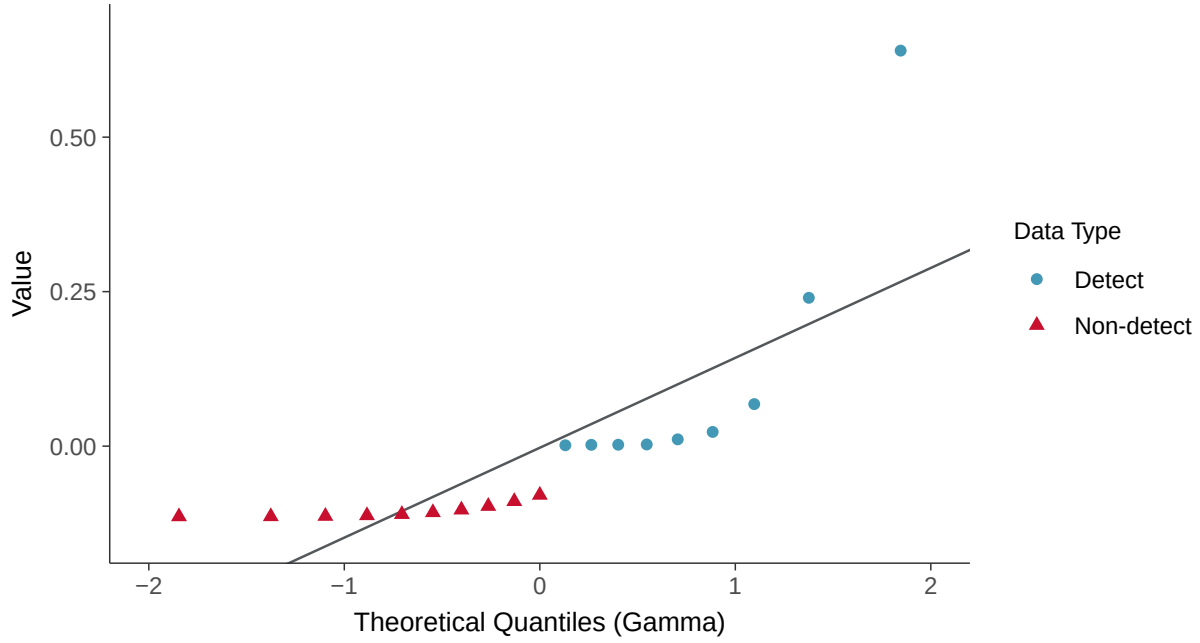
Lognormal Q-Q plot using ROS Imputed Estimates

Nickel, MW-31 (mg/L)



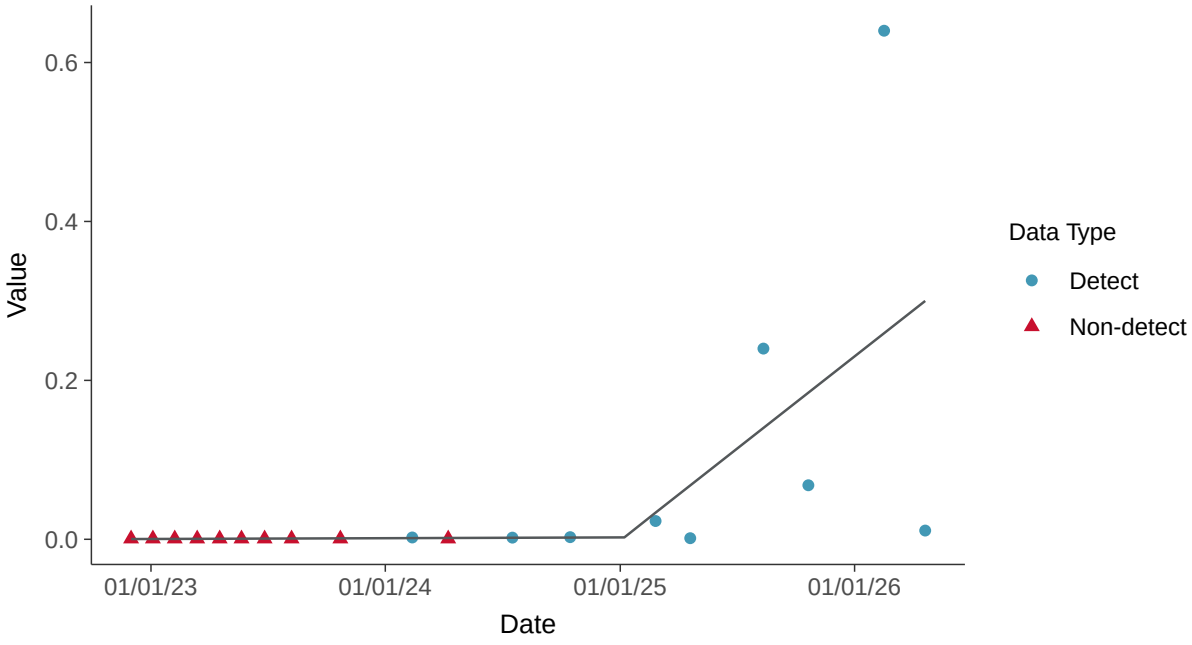
Gamma Q-Q plot using ROS Imputed Estimates

Nickel, MW-31 (mg/L)



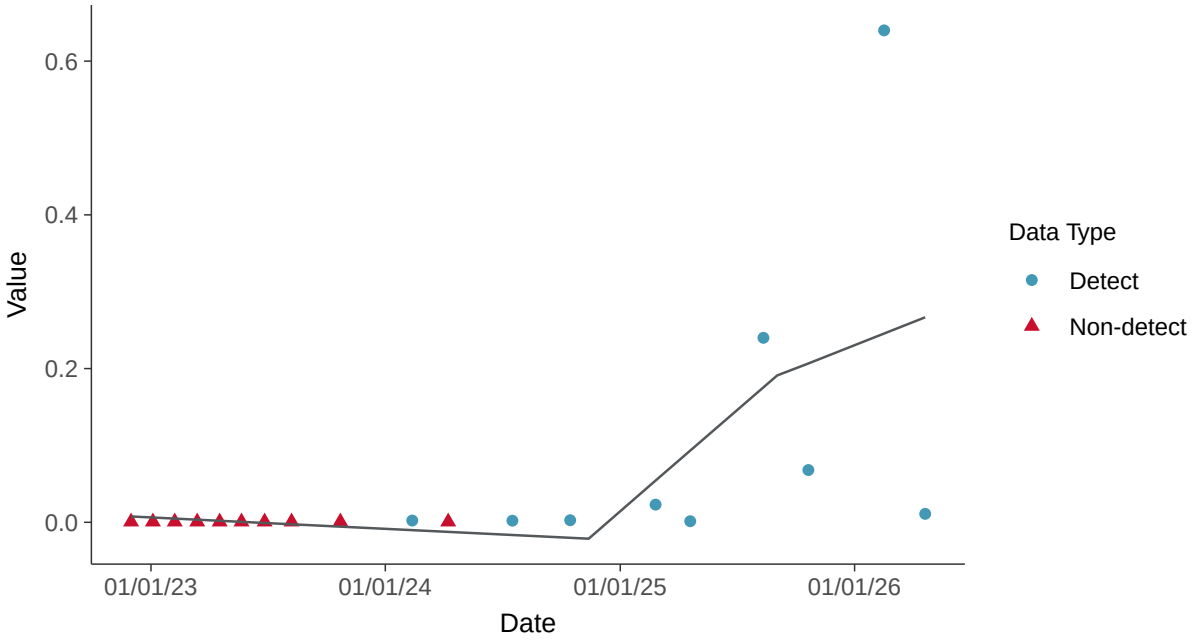
Trend Regression: Piecewise Linear-Linear

Nickel, MW-31 (mg/L)



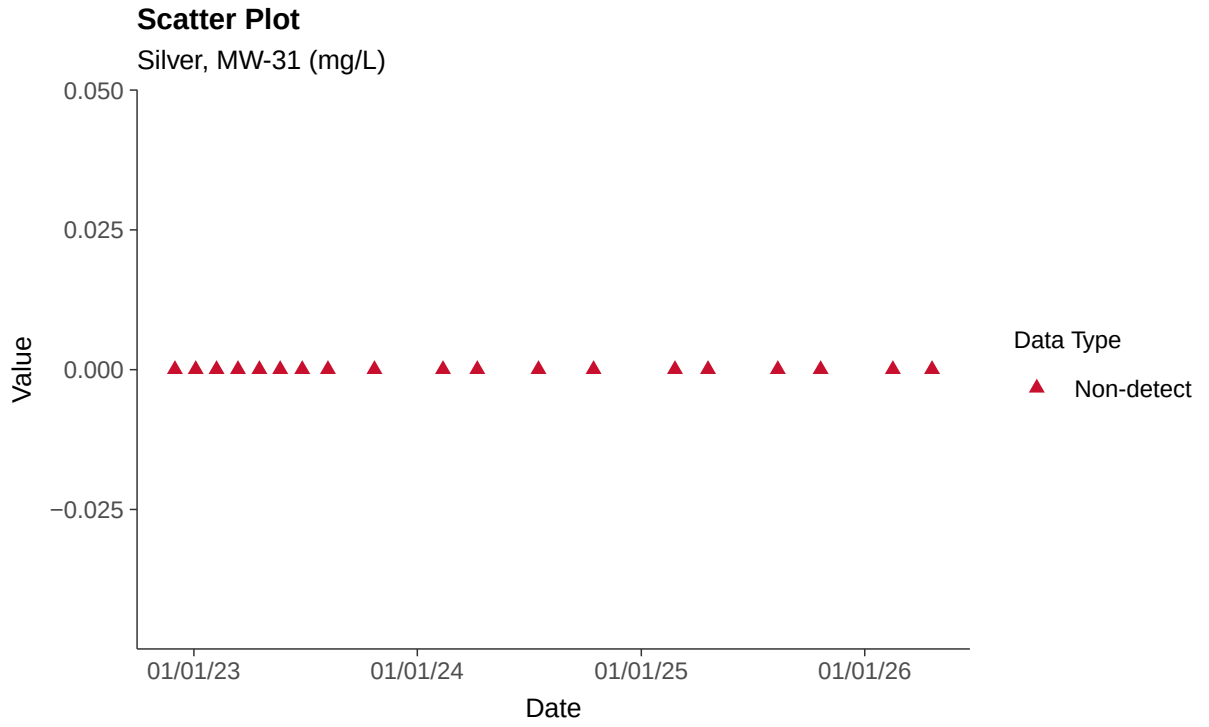
Trend Regression: Piecewise Linear-Linear-Linear

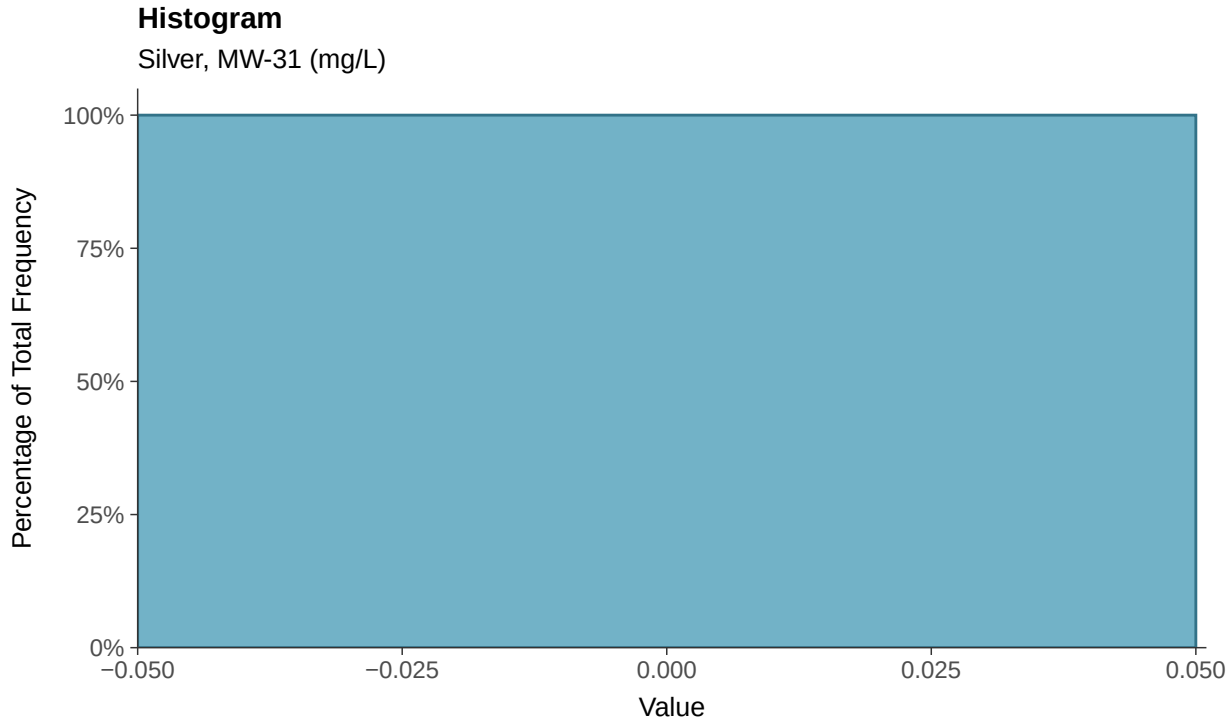
Nickel, MW-31 (mg/L)



Part 115: Silver, MW-31

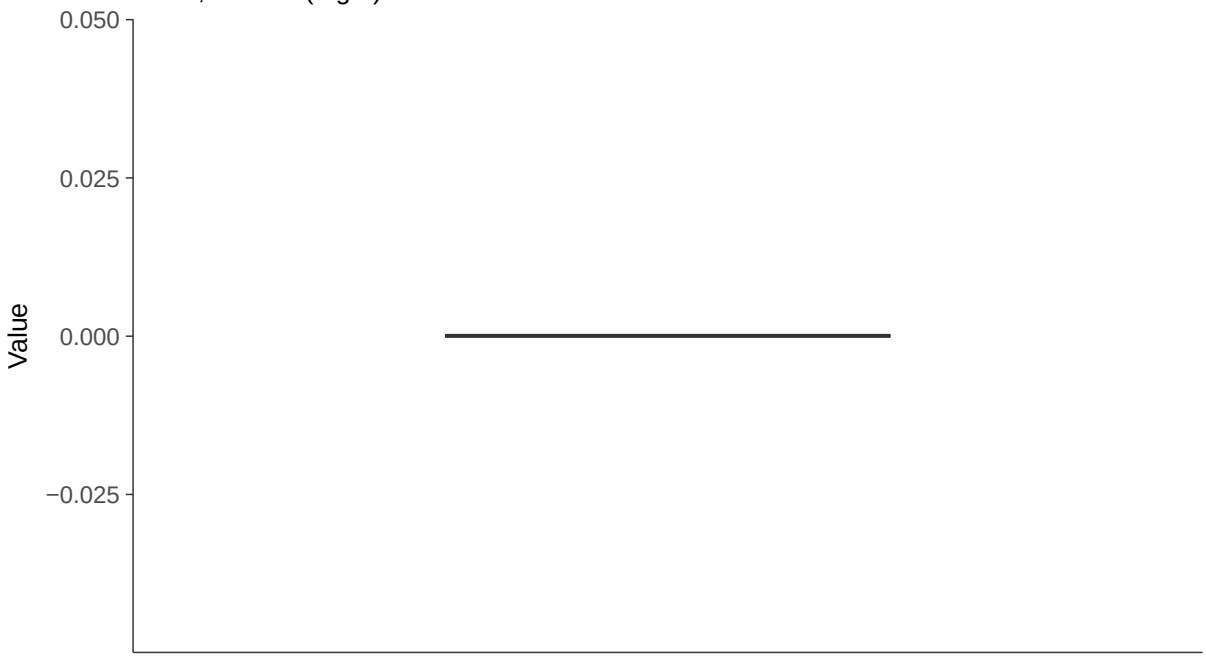
ID: 41_1_5_123





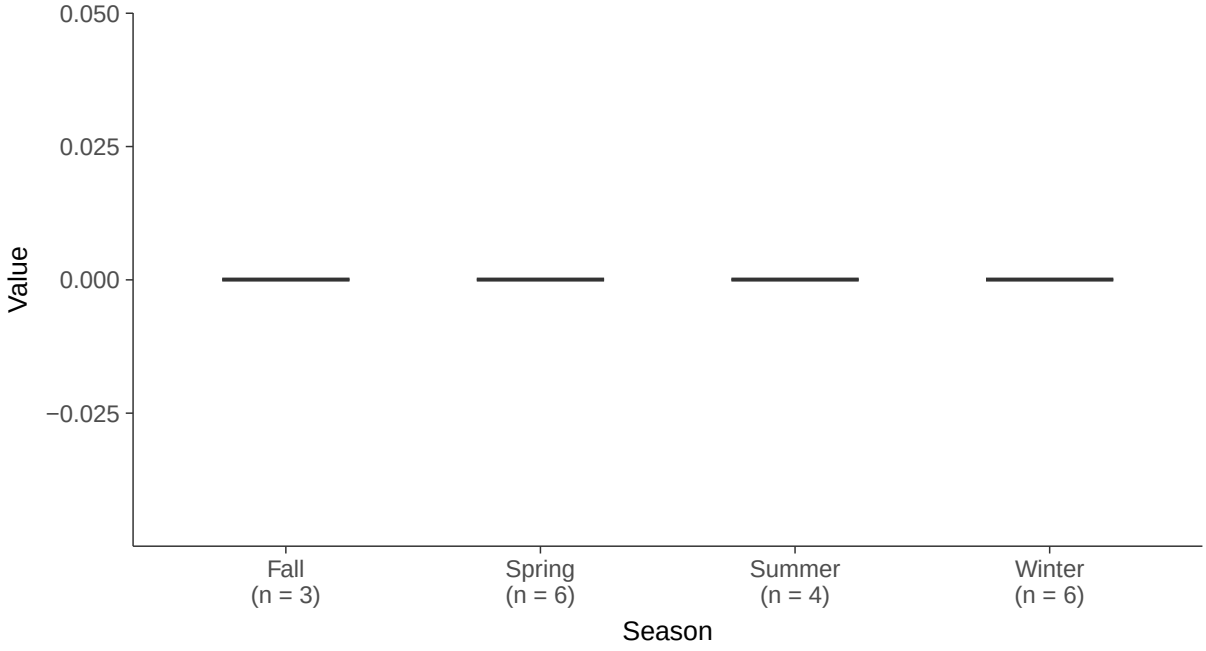
Boxplot

Silver, MW-31 (mg/L)



Boxplot by Season

Silver, MW-31 (mg/L)

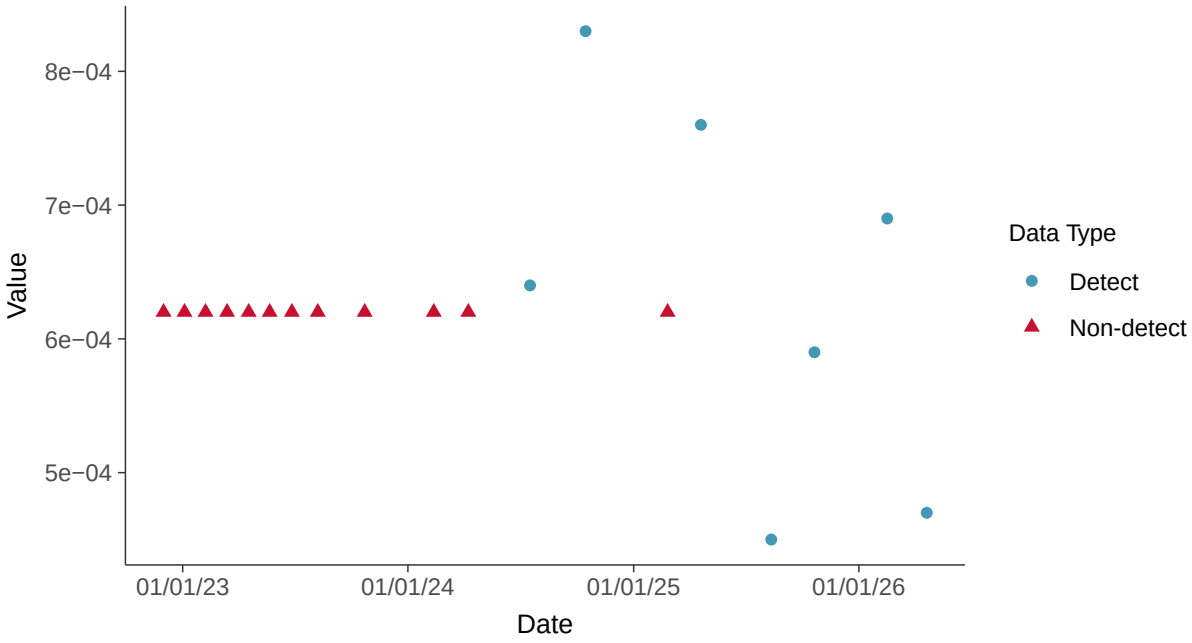


Part 115: Vanadium, MW-31

ID: 41_1_5_128

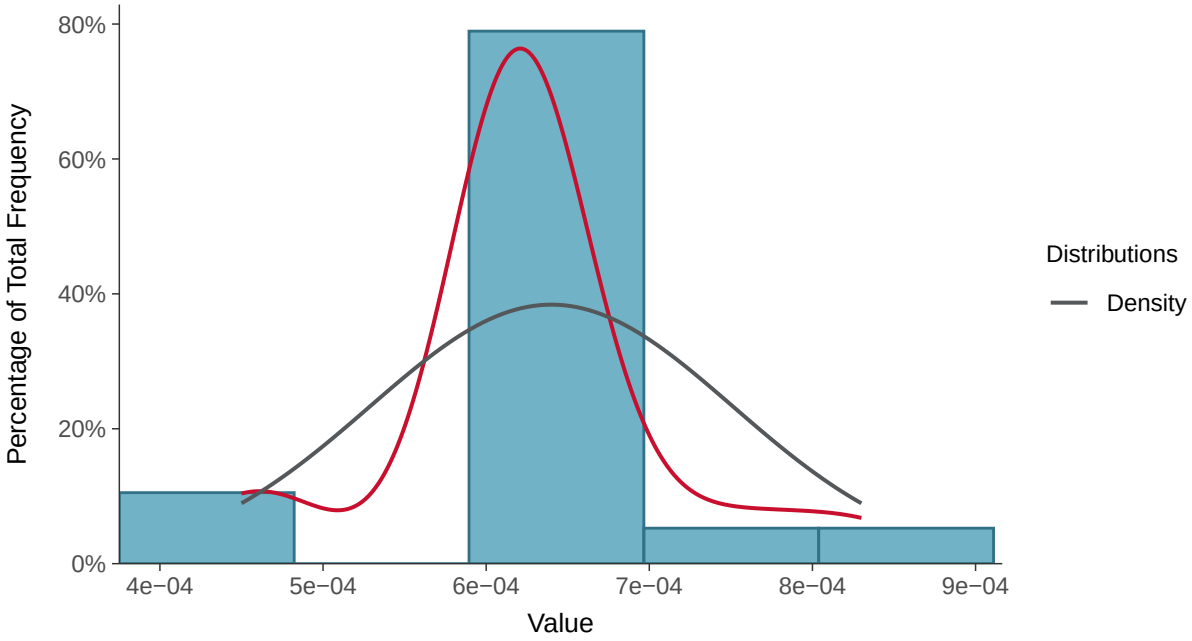
Scatter Plot

Vanadium, MW-31 (mg/L)



Histogram

Vanadium, MW-31 (mg/L)

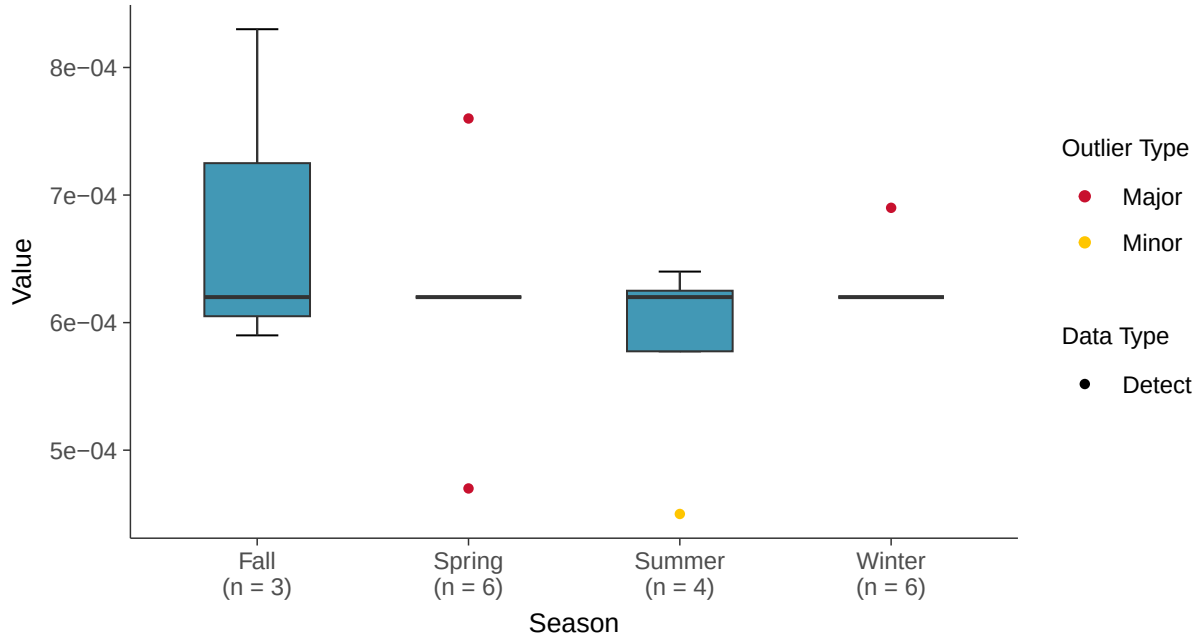


Boxplot

Vanadium, MW-31 (mg/L)

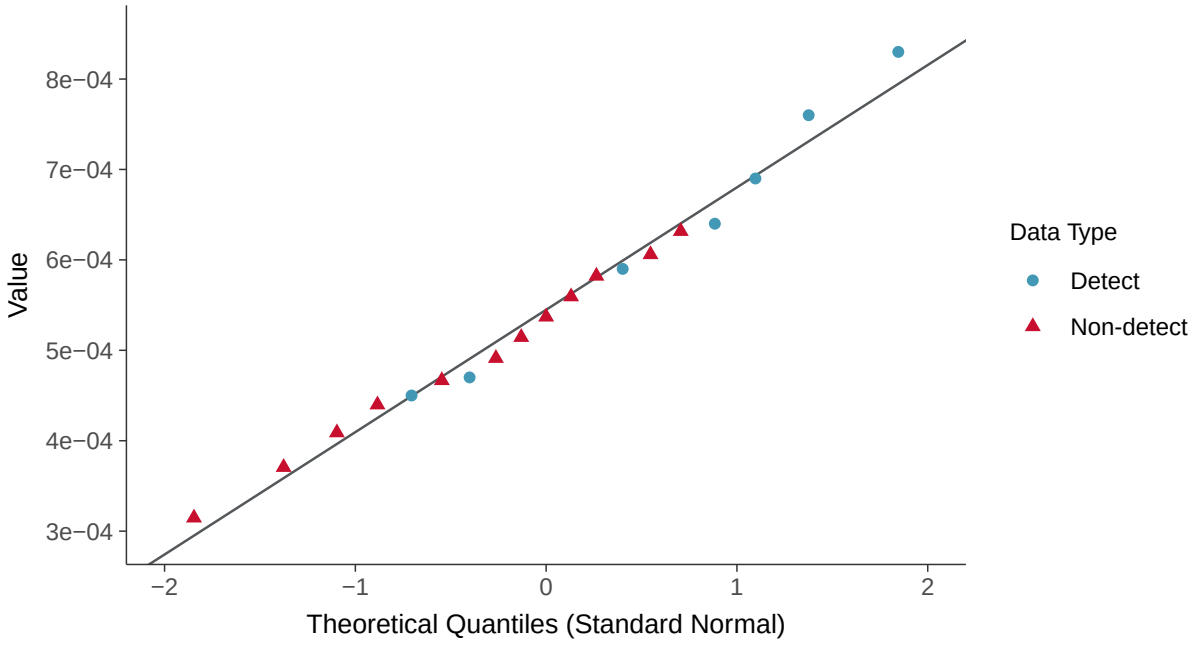
Boxplot by Season

Vanadium, MW-31 (mg/L)



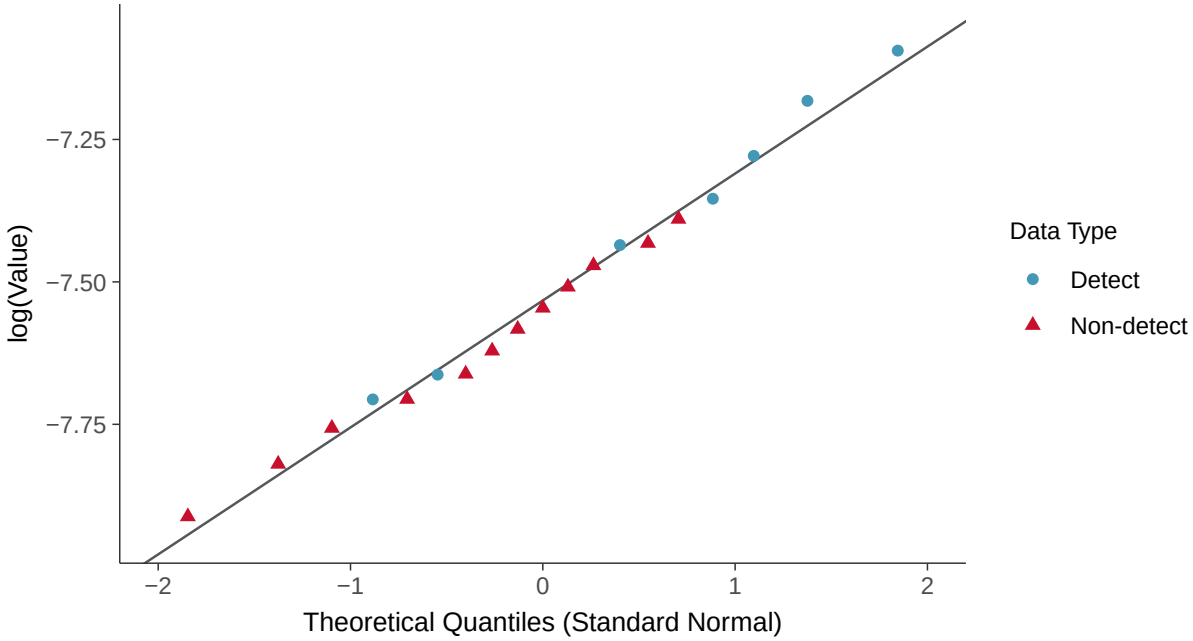
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-31 (mg/L)



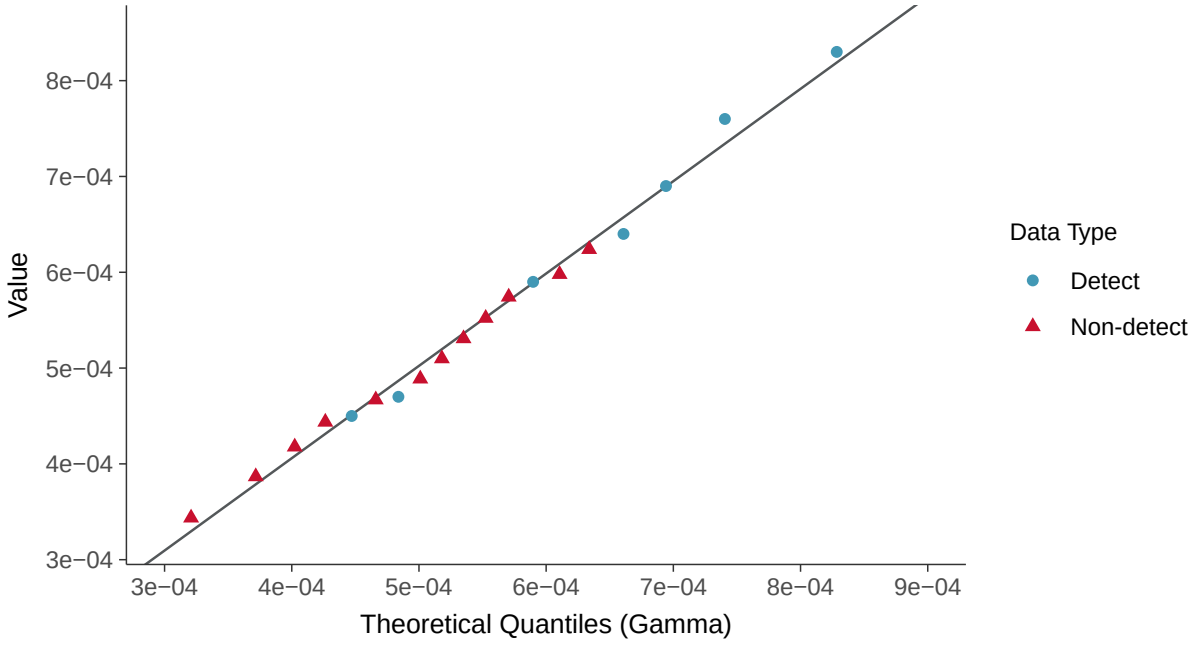
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-31 (mg/L)



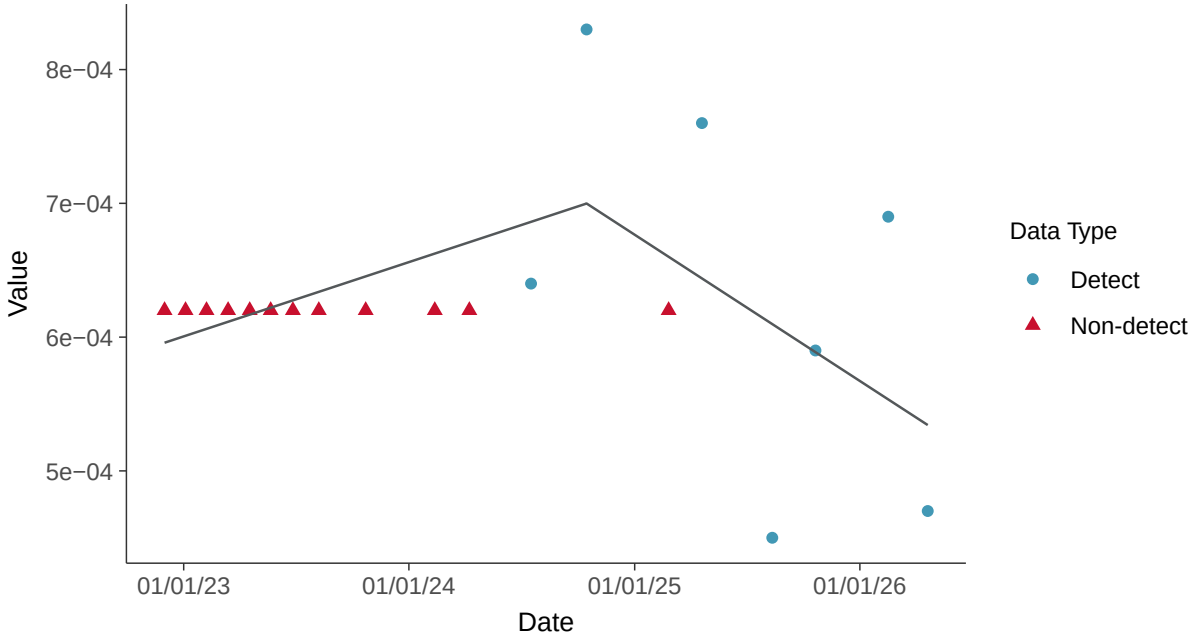
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-31 (mg/L)



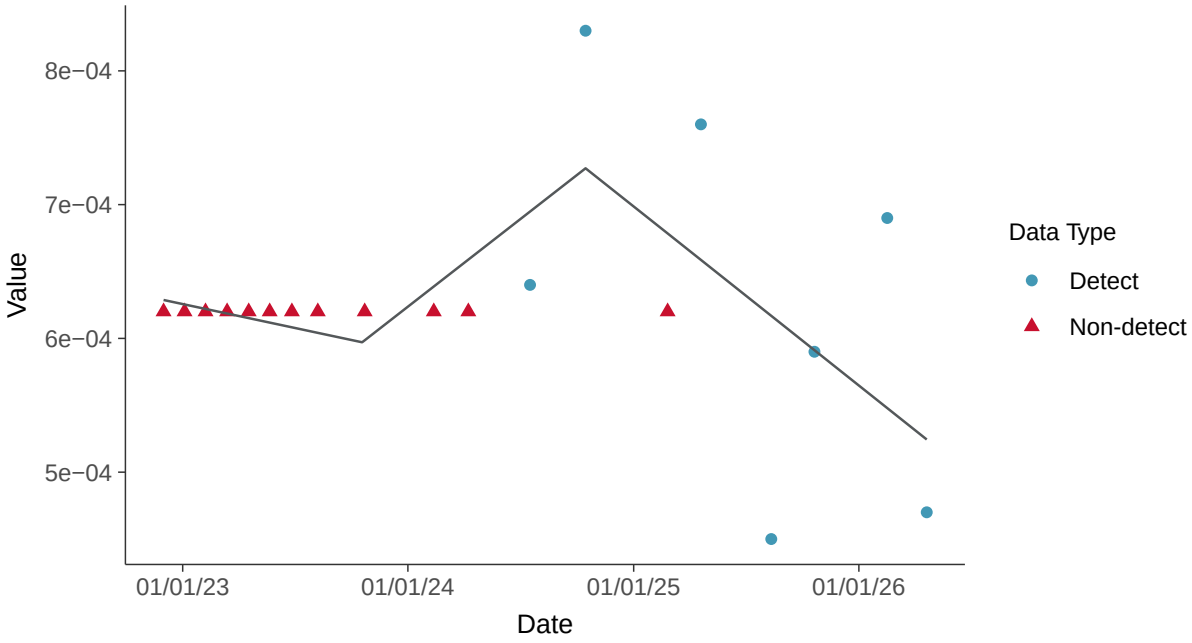
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-31 (mg/L)



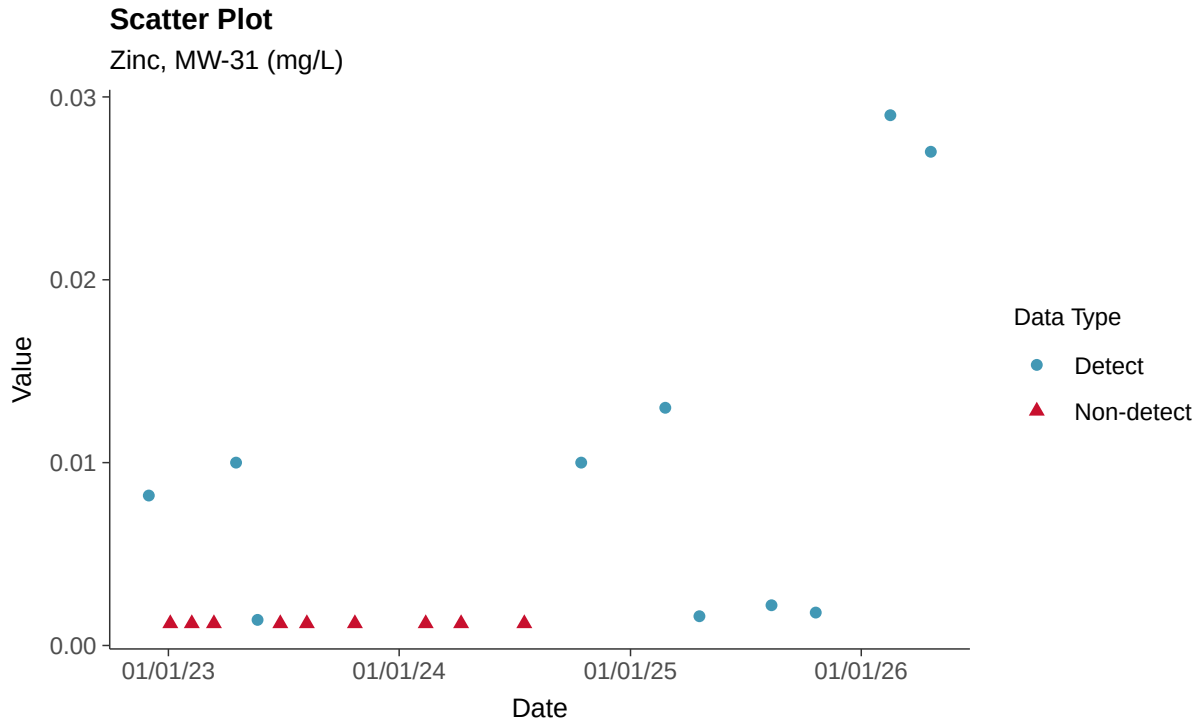
Trend Regression: Piecewise Linear-Linear-Linear

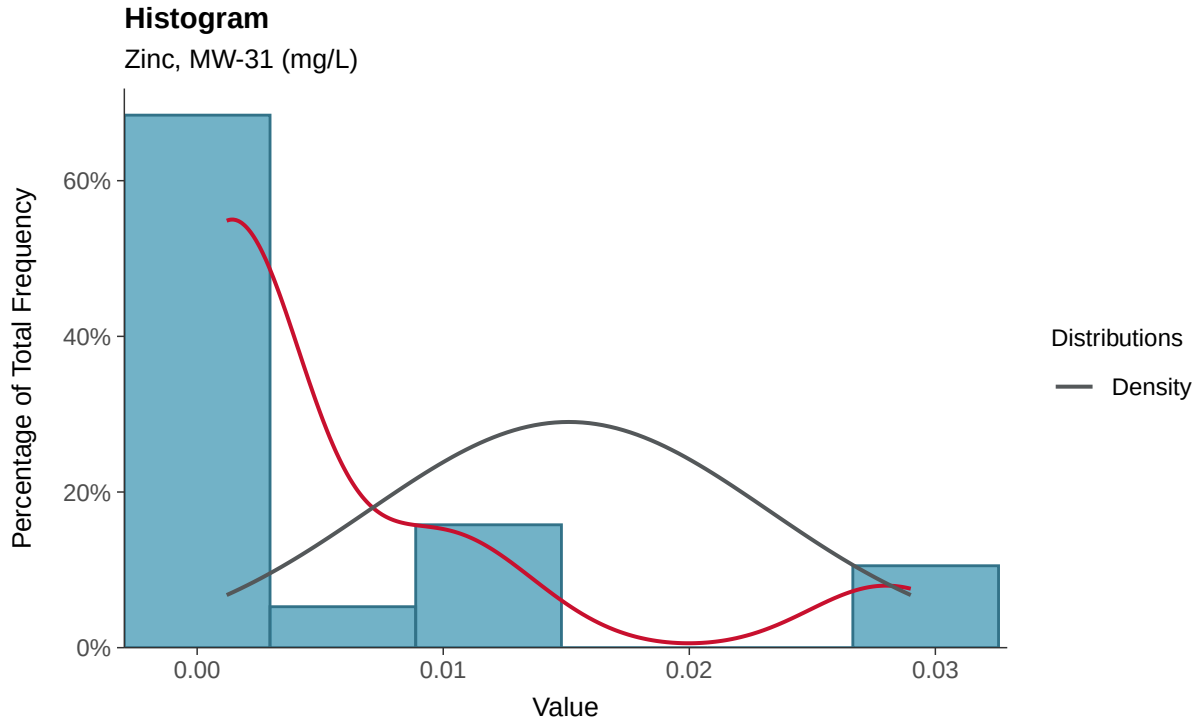
Vanadium, MW-31 (mg/L)



Part 115: Zinc, MW-31

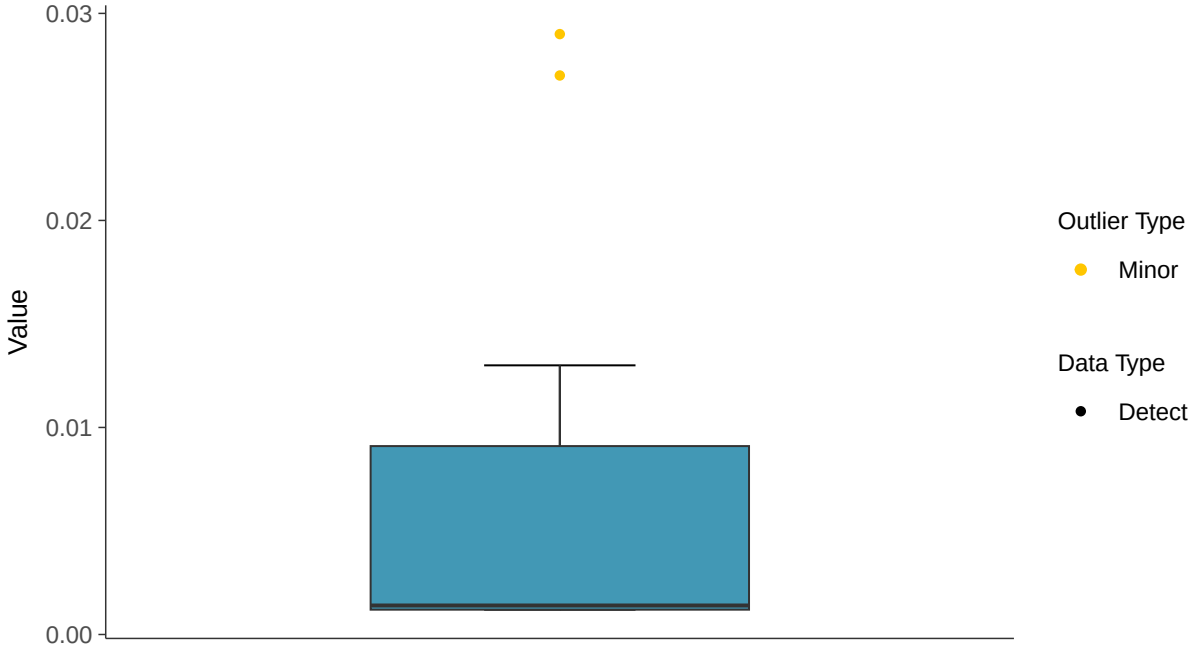
ID: 41_1_5_129





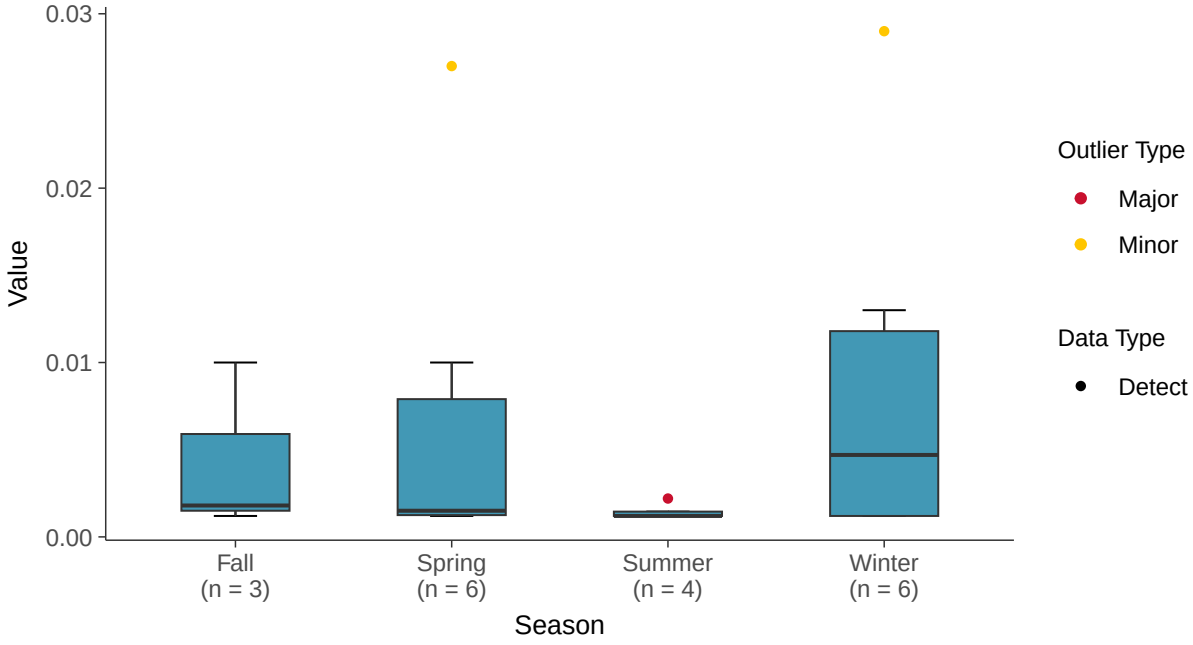
Boxplot

Zinc, MW-31 (mg/L)



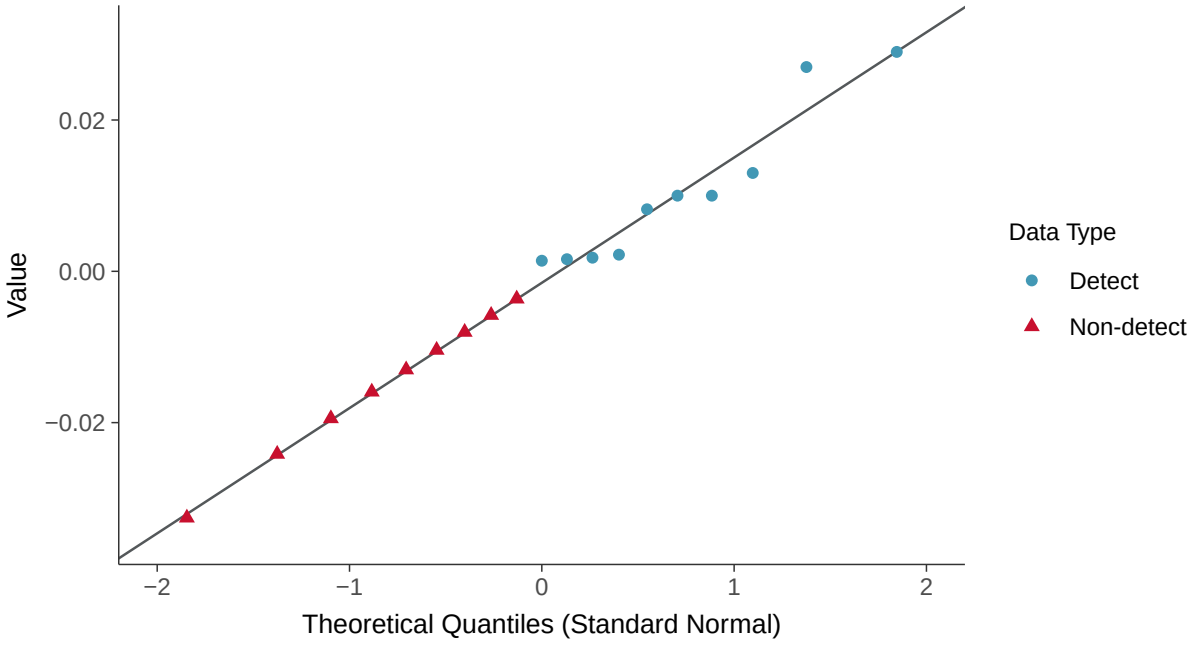
Boxplot by Season

Zinc, MW-31 (mg/L)



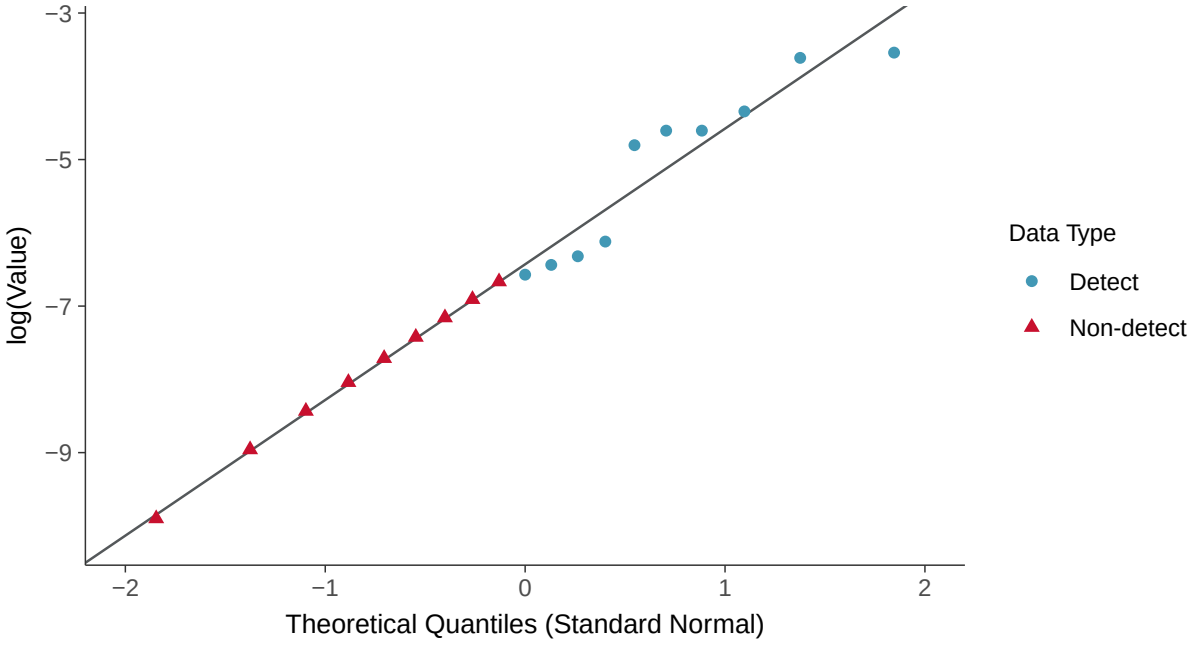
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-31 (mg/L)



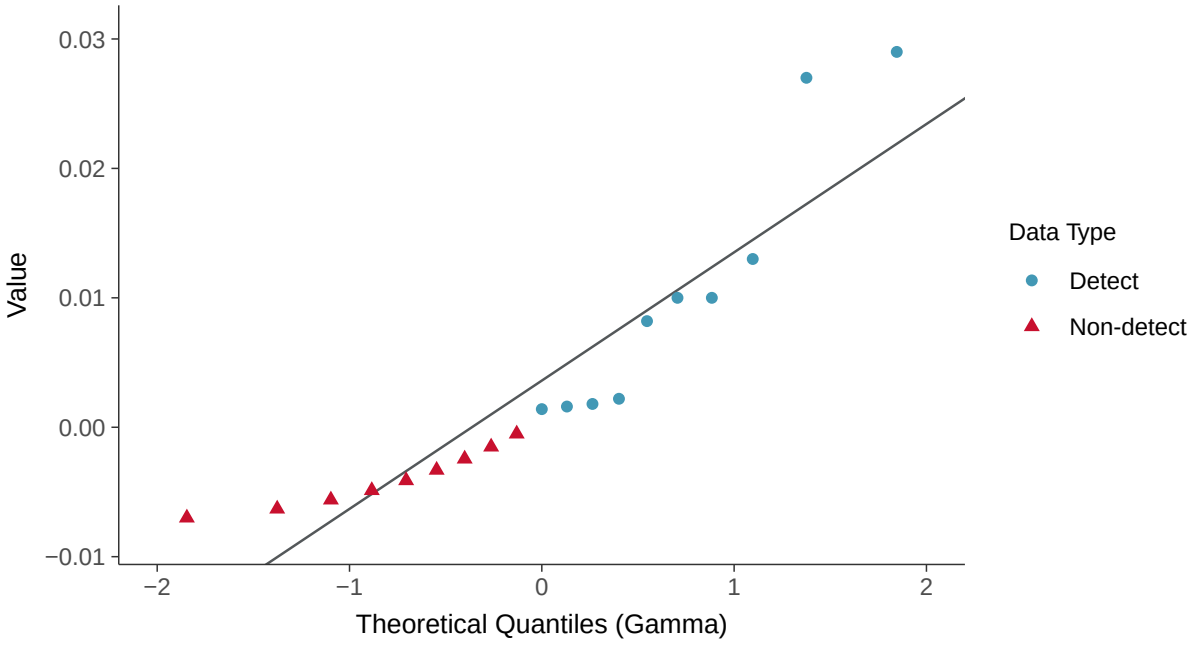
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-31 (mg/L)



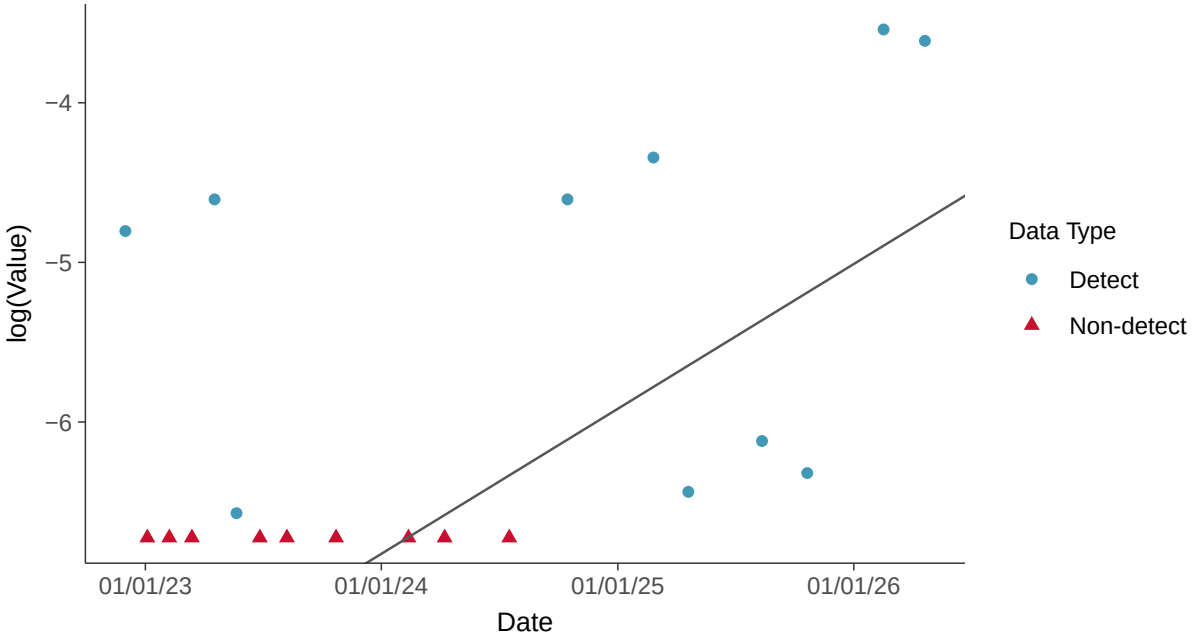
Gamma Q-Q plot using ROS Imputed Estimates

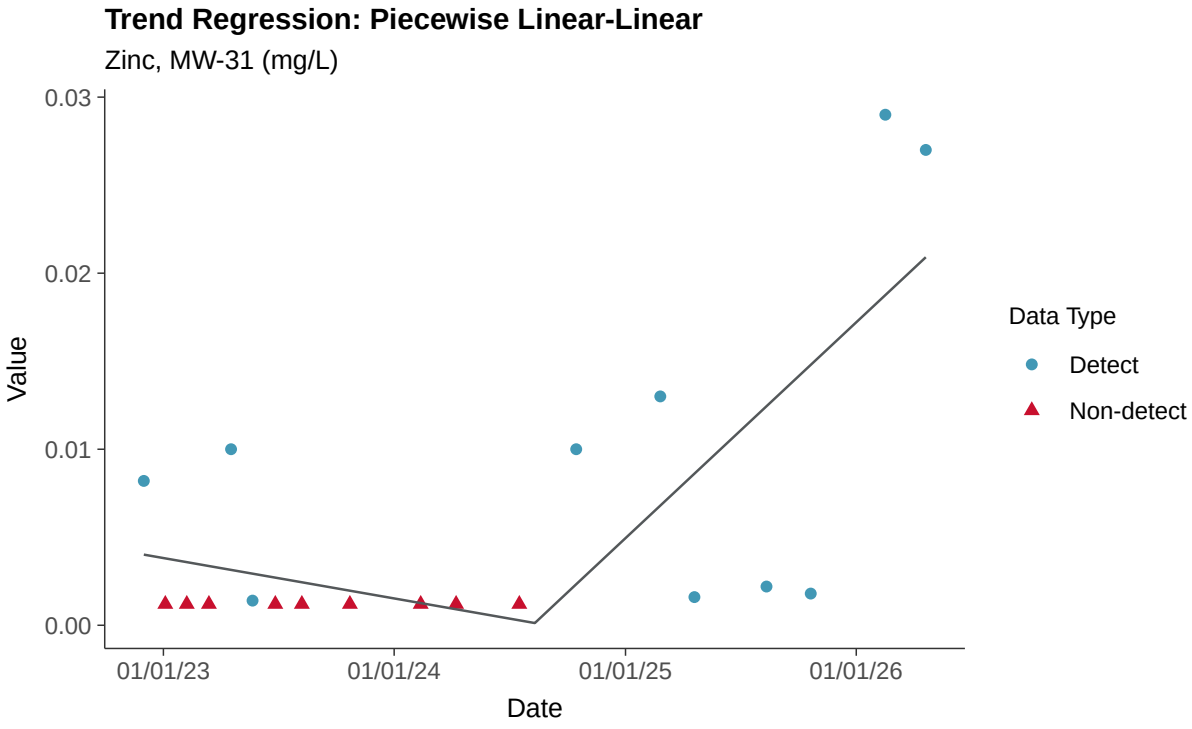
Zinc, MW-31 (mg/L)



Trend Regression: Lognormal MLE

Zinc, MW-31 (mg/L)



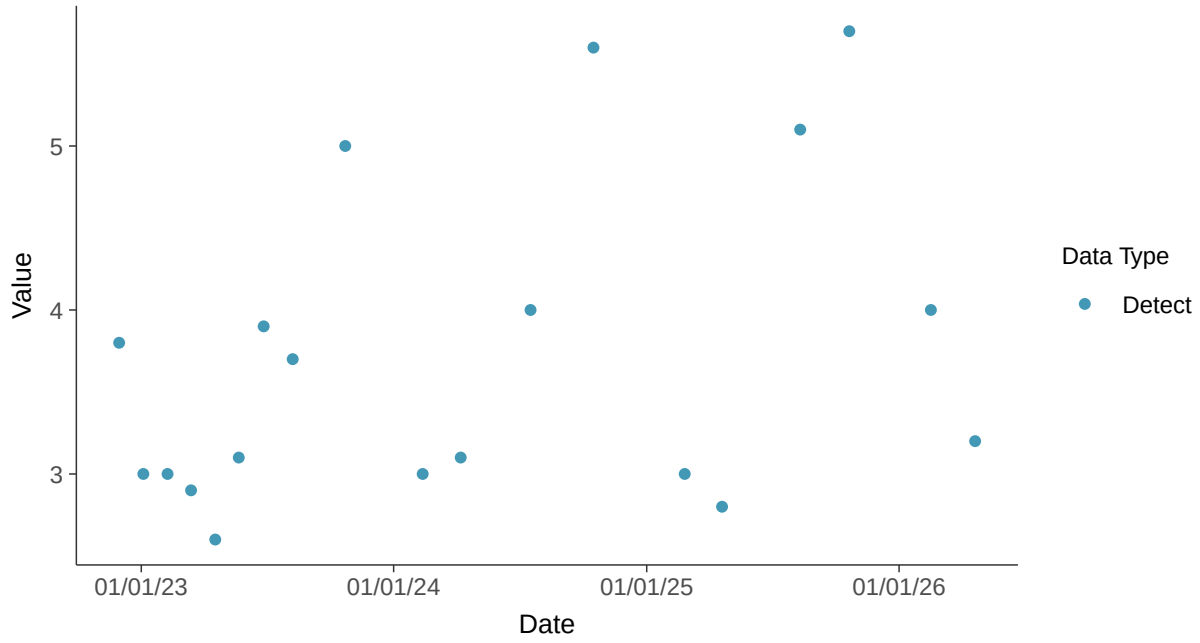

Trend Regression: Piecewise Linear-Linear
Zinc, MW-31 (mg/L)
0.03
0.02
0.01
0.00
Value
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix III: Boron, MW-32

ID: 42_1_3_105

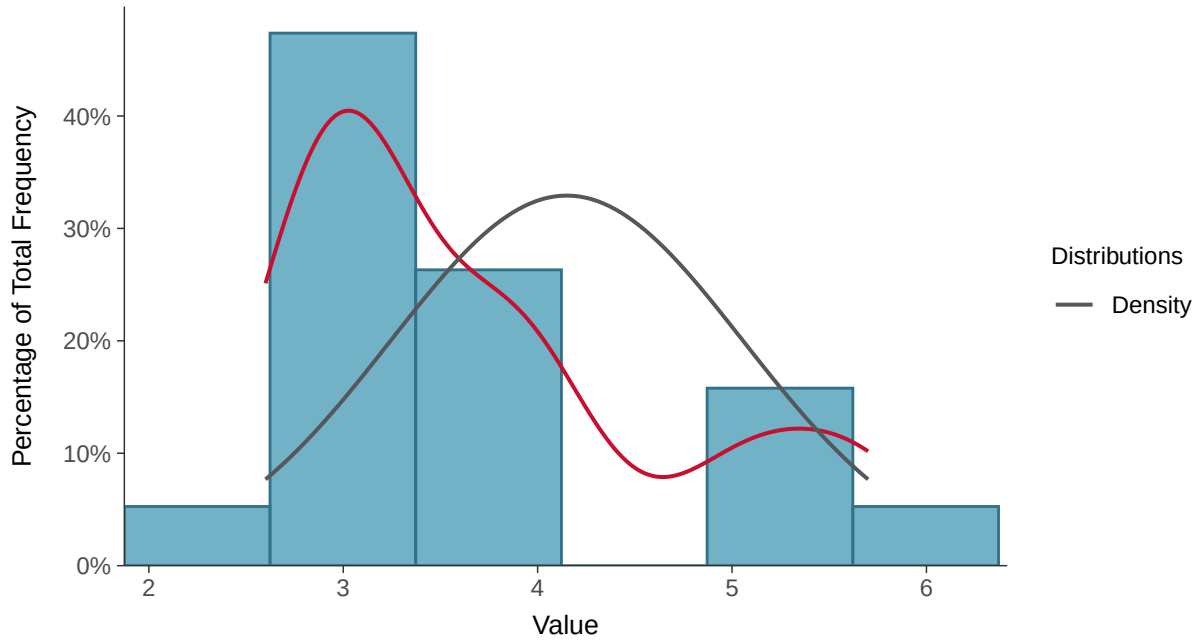
Scatter Plot

Boron, MW-32 (mg/L)



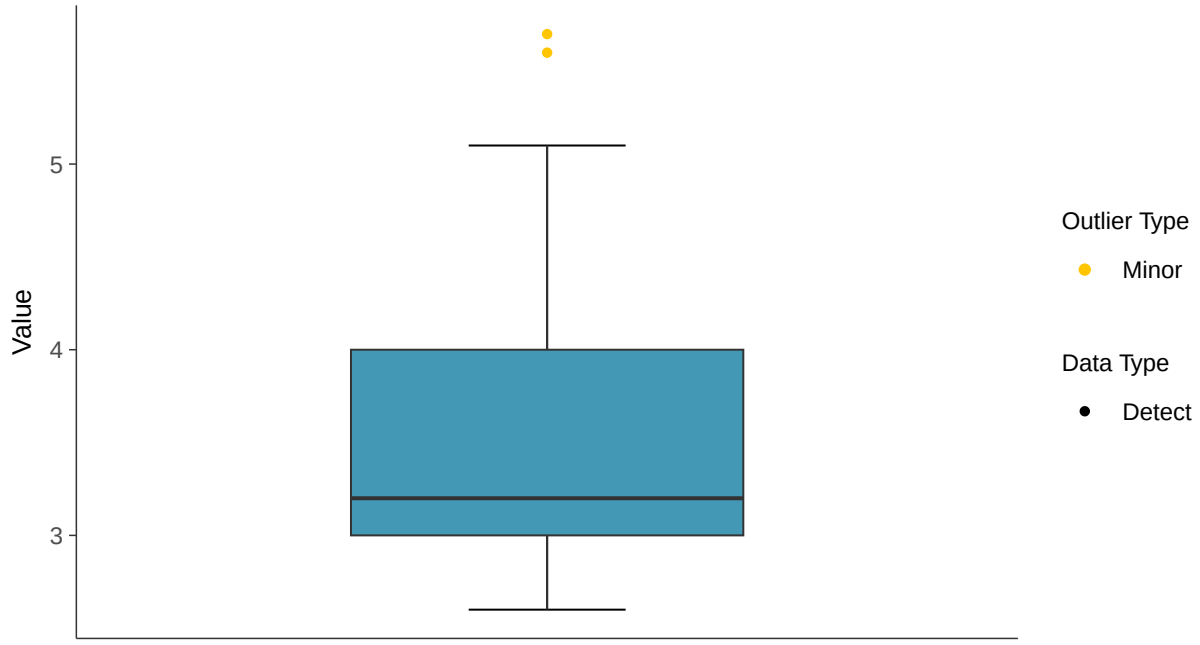
Histogram

Boron, MW-32 (mg/L)



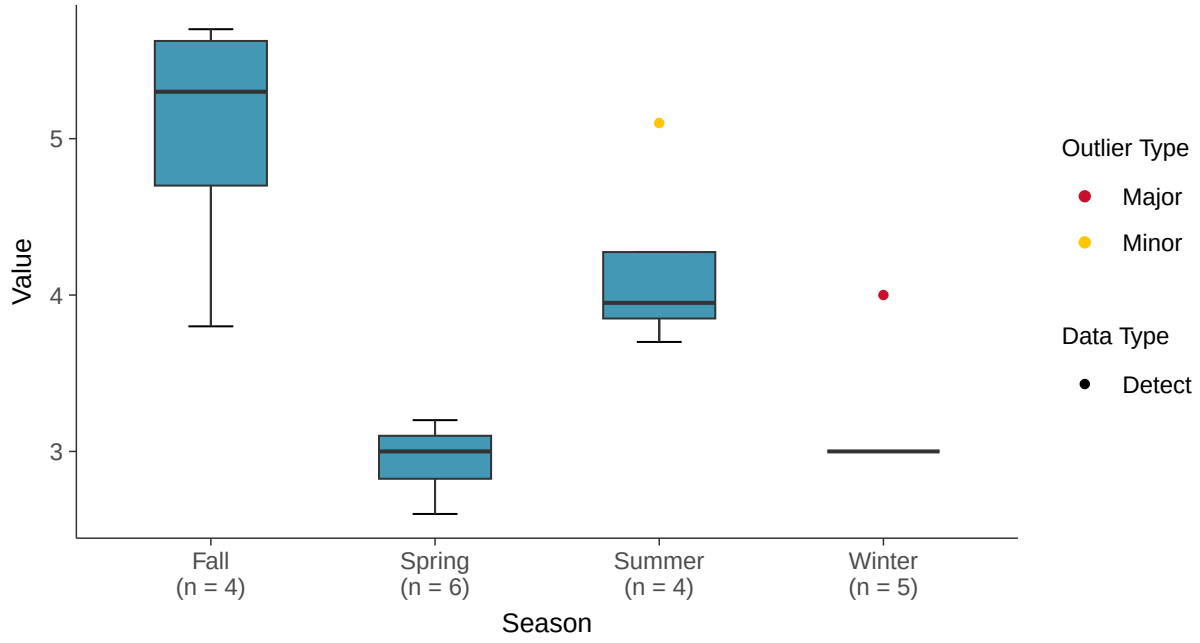
Boxplot

Boron, MW-32 (mg/L)



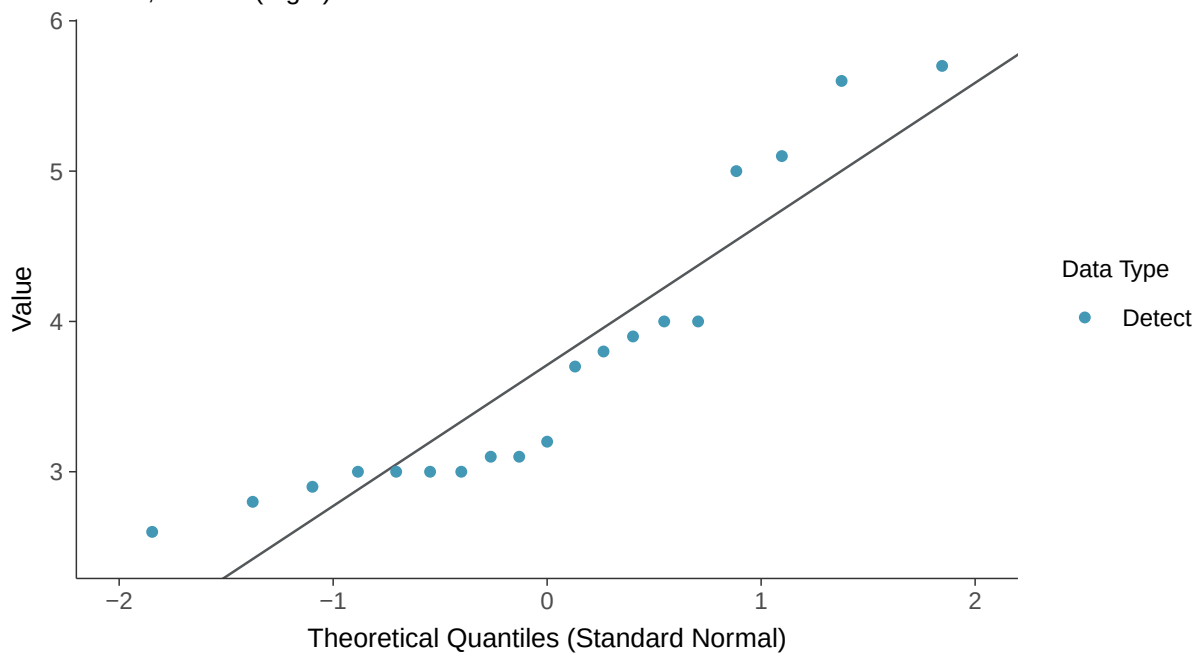
Boxplot by Season

Boron, MW-32 (mg/L)



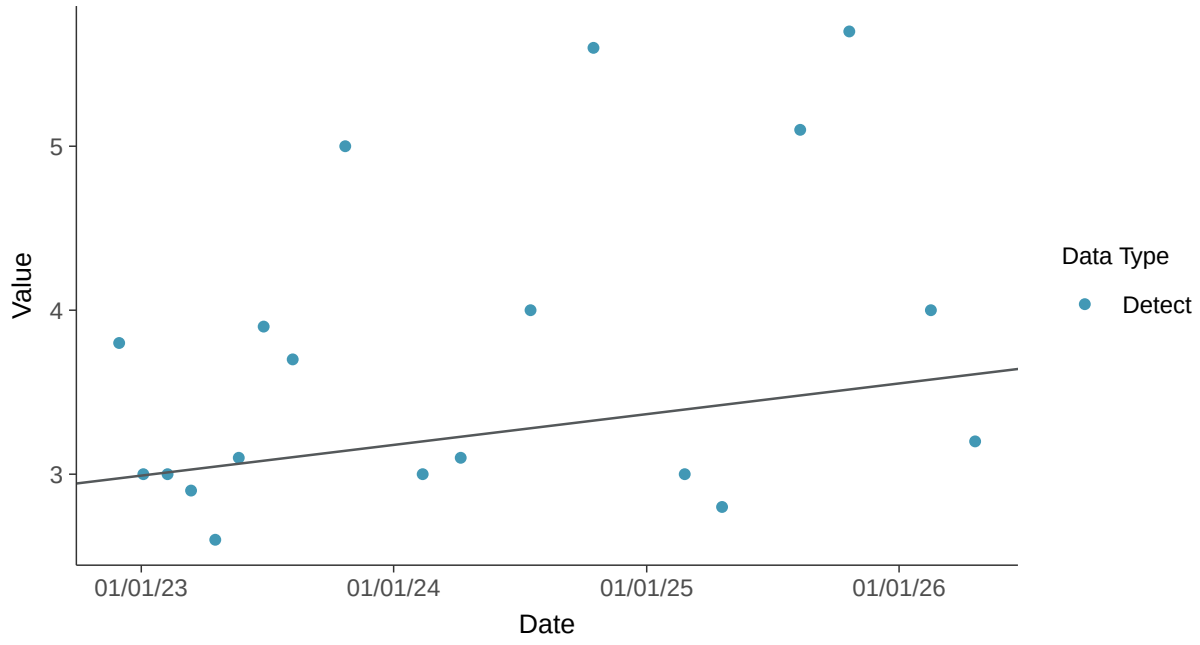
Normal Q-Q plot

Boron, MW-32 (mg/L)



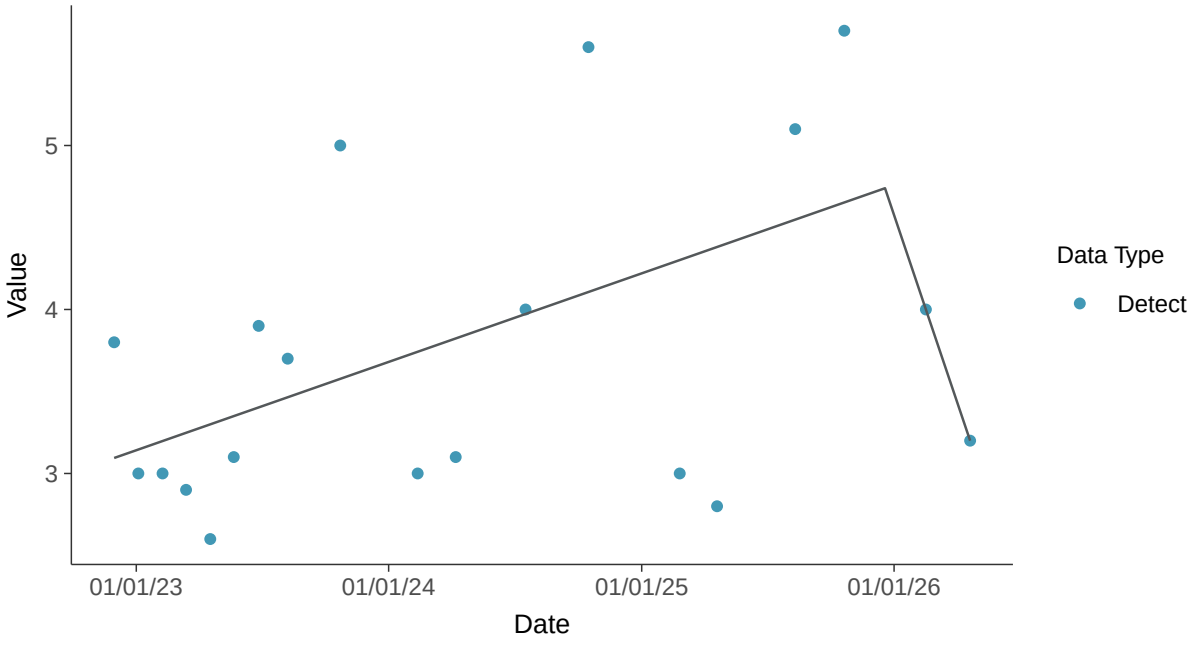
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Boron, MW-32 (mg/L)



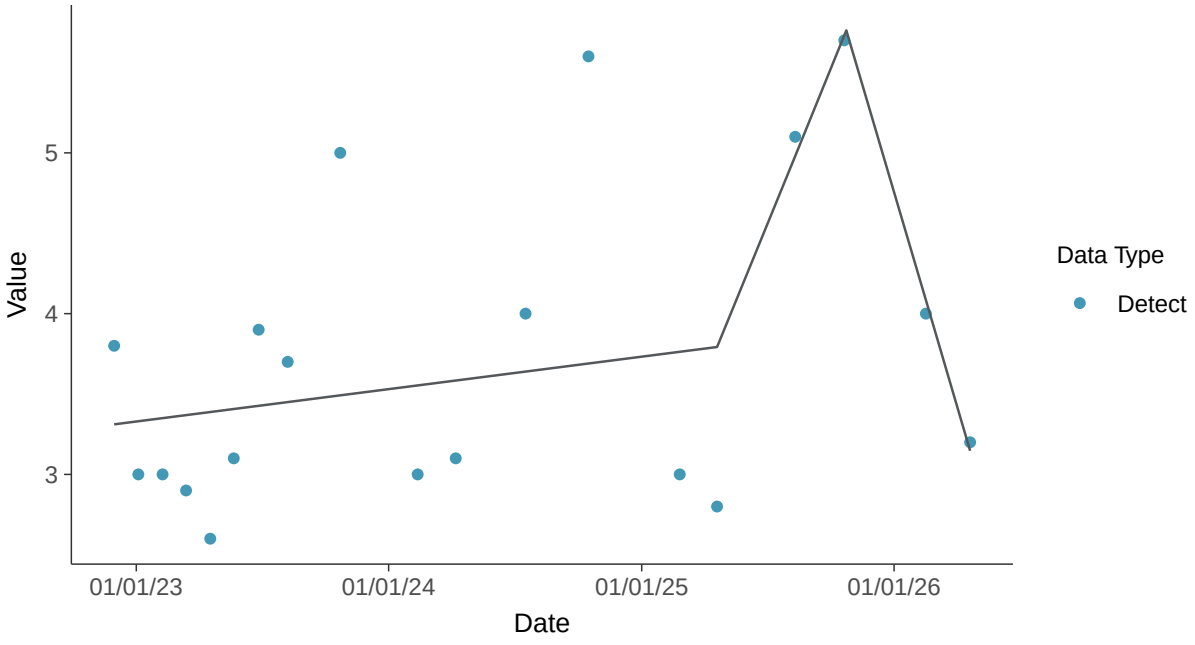
Trend Regression: Piecewise Linear-Linear

Boron, MW-32 (mg/L)



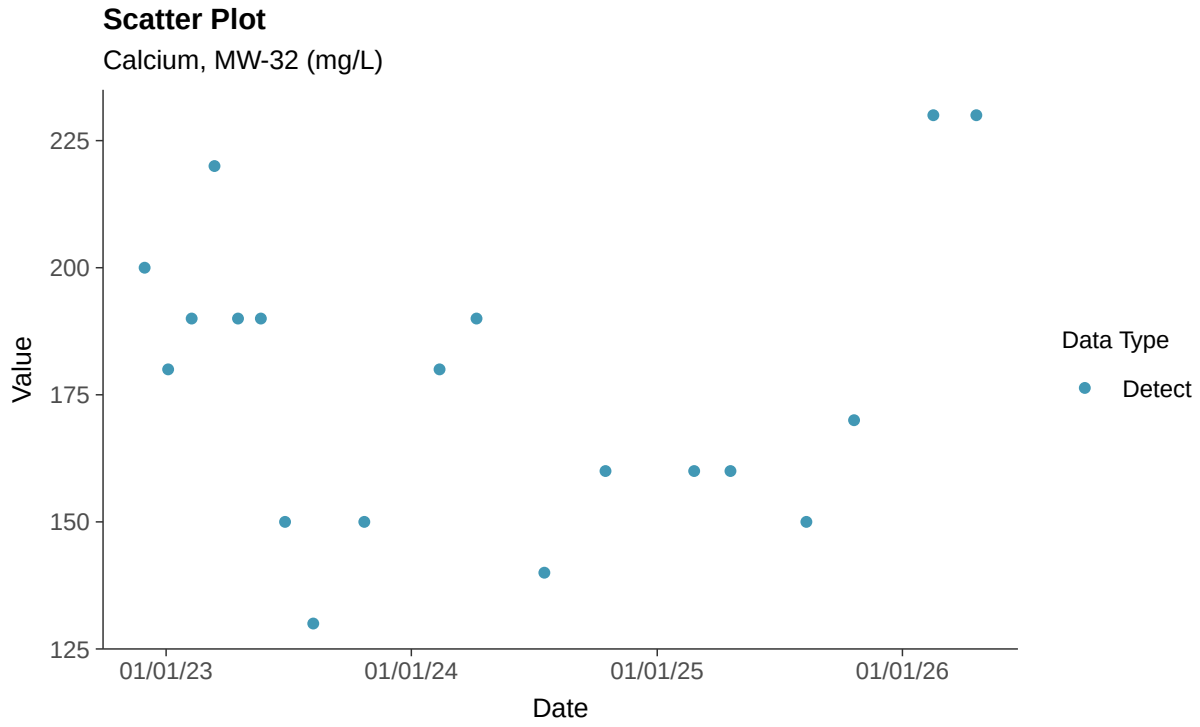
Trend Regression: Piecewise Linear-Linear-Linear

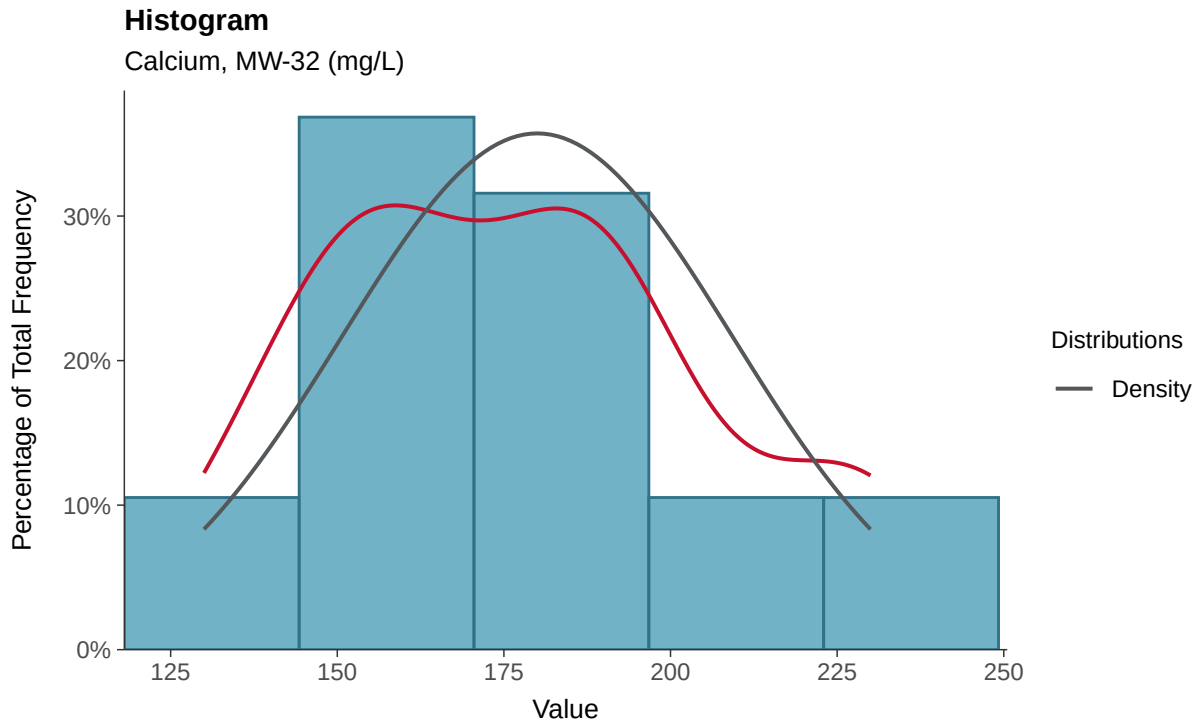
Boron, MW-32 (mg/L)



Appendix III: Calcium, MW-32

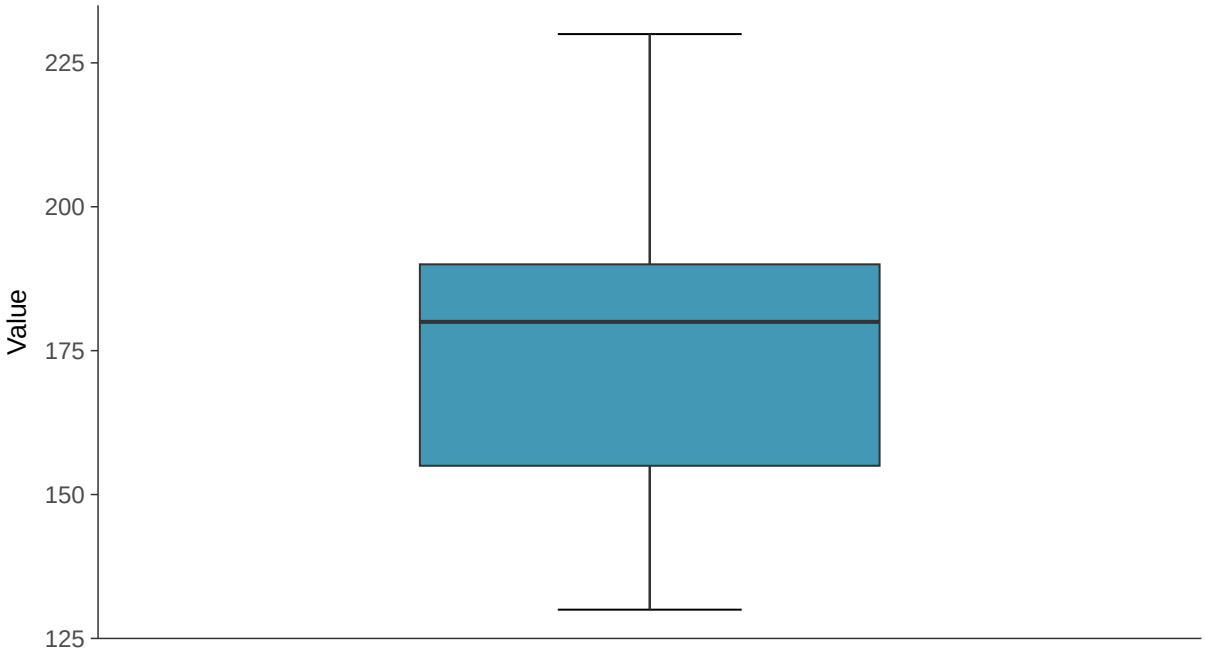
ID: 42_1_3_107





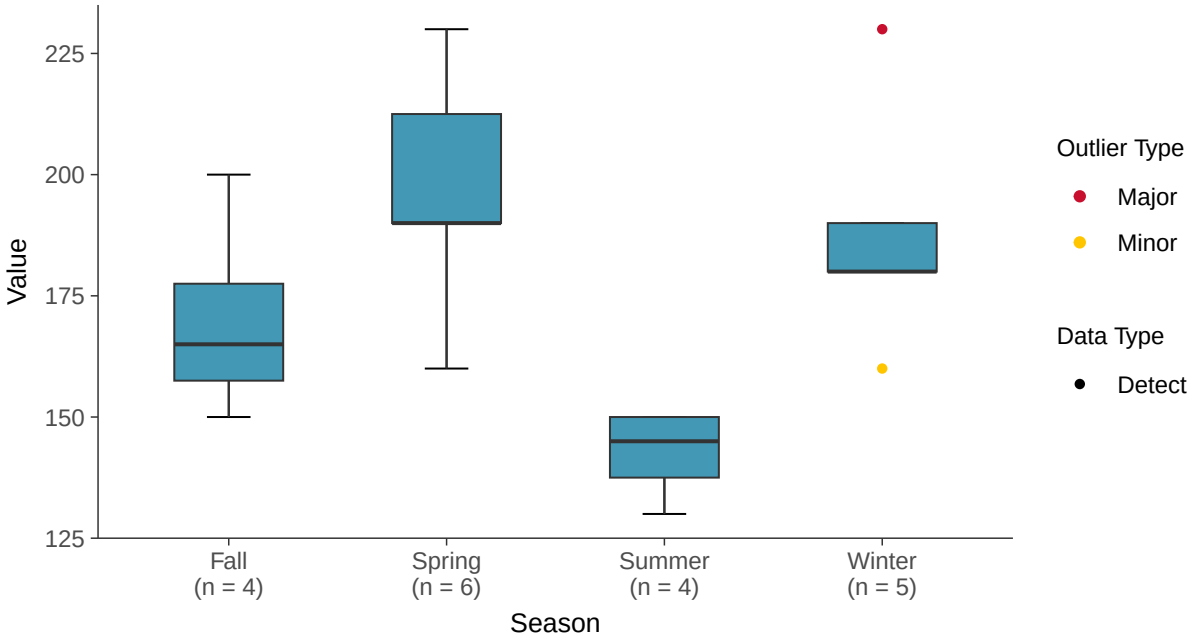
Boxplot

Calcium, MW-32 (mg/L)



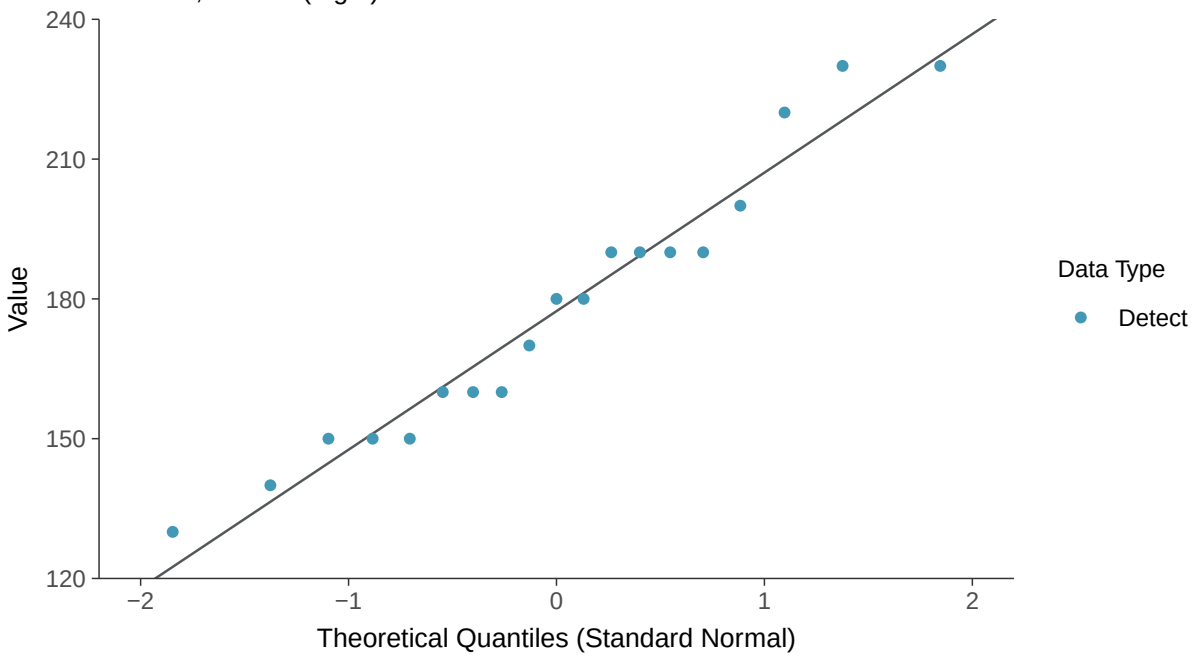
Boxplot by Season

Calcium, MW-32 (mg/L)



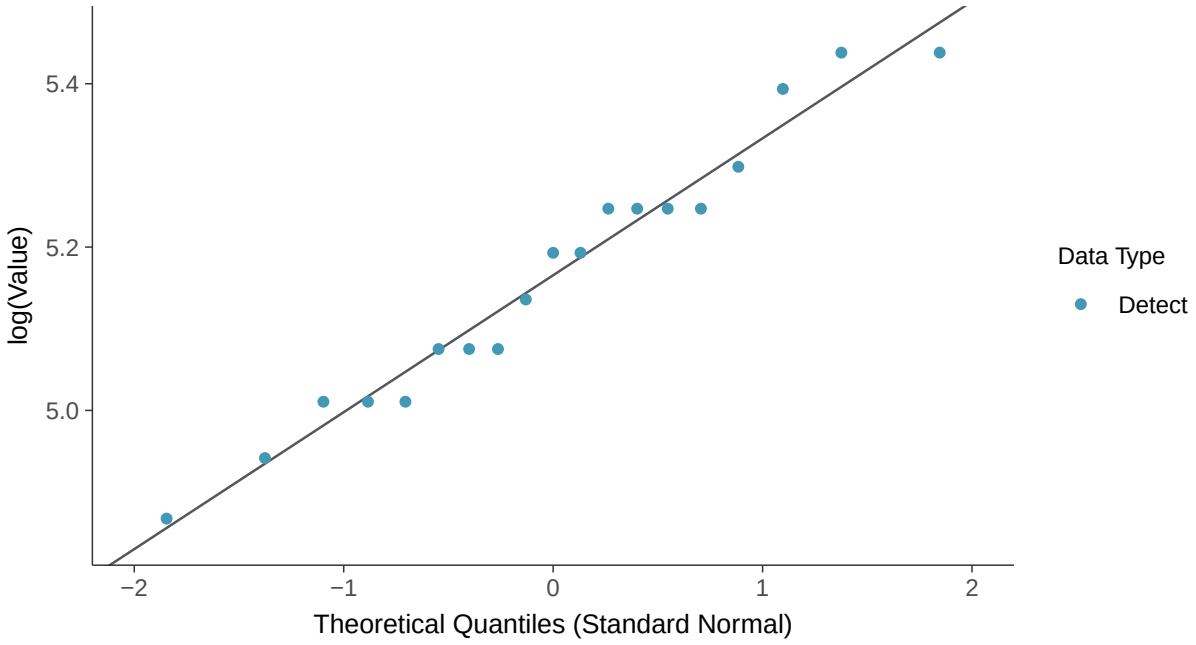
Normal Q-Q plot

Calcium, MW-32 (mg/L)



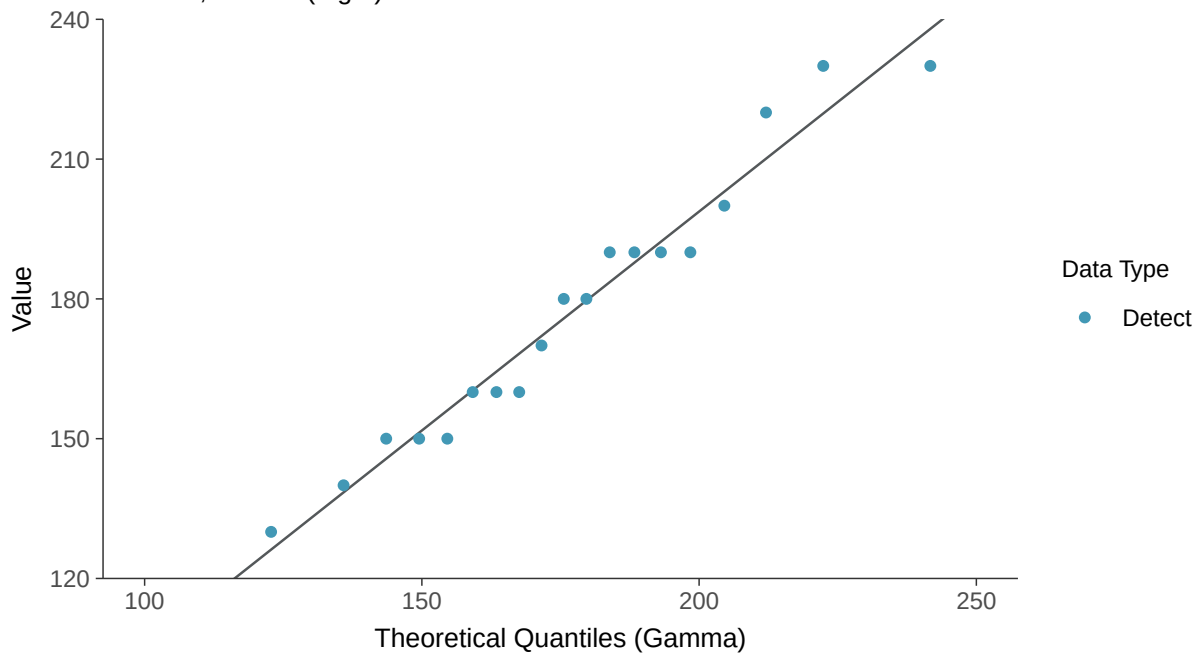
Lognormal Q-Q plot

Calcium, MW-32 (mg/L)



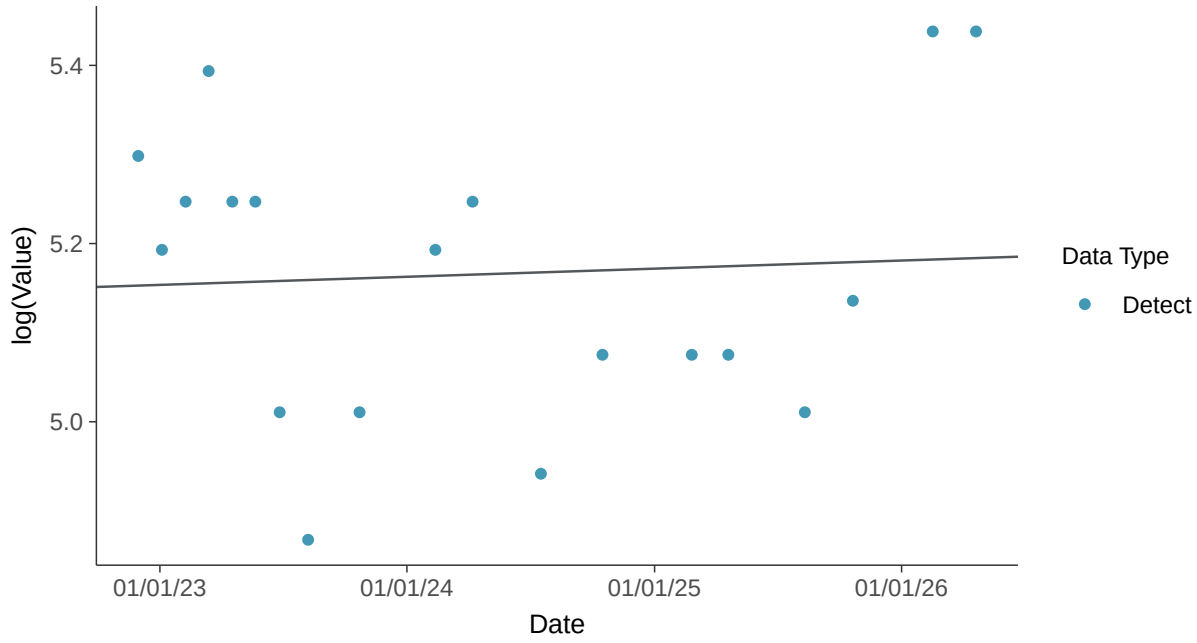
Gamma Q-Q plot

Calcium, MW-32 (mg/L)



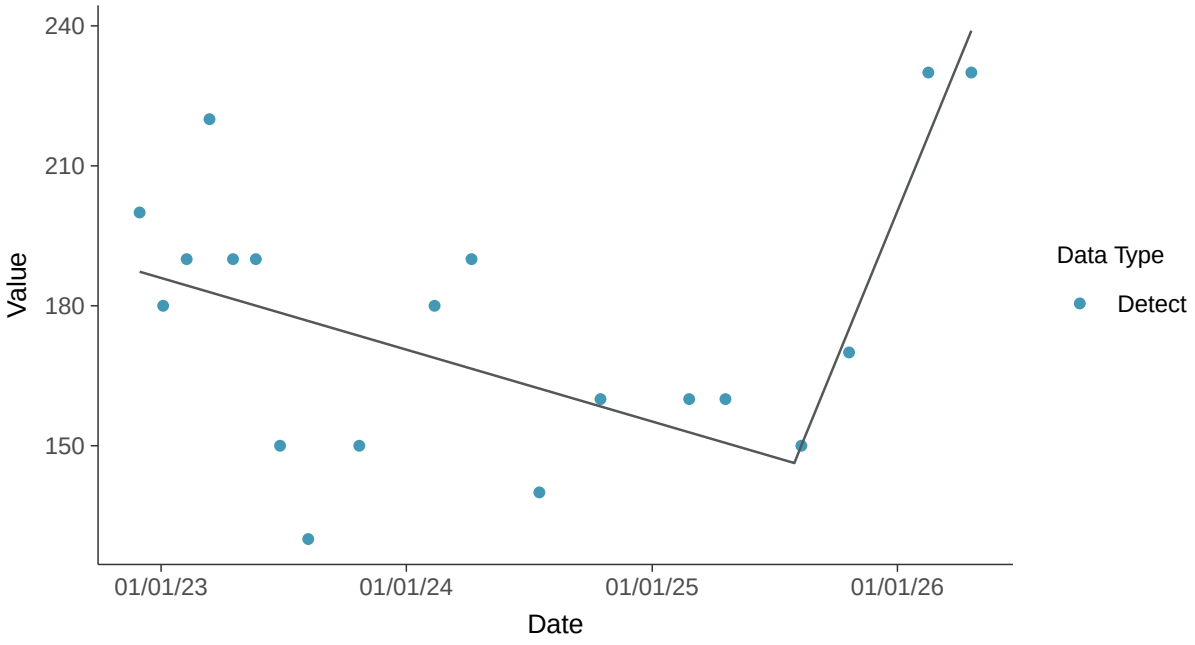
Trend Regression: Lognormal MLE

Calcium, MW-32 (mg/L)



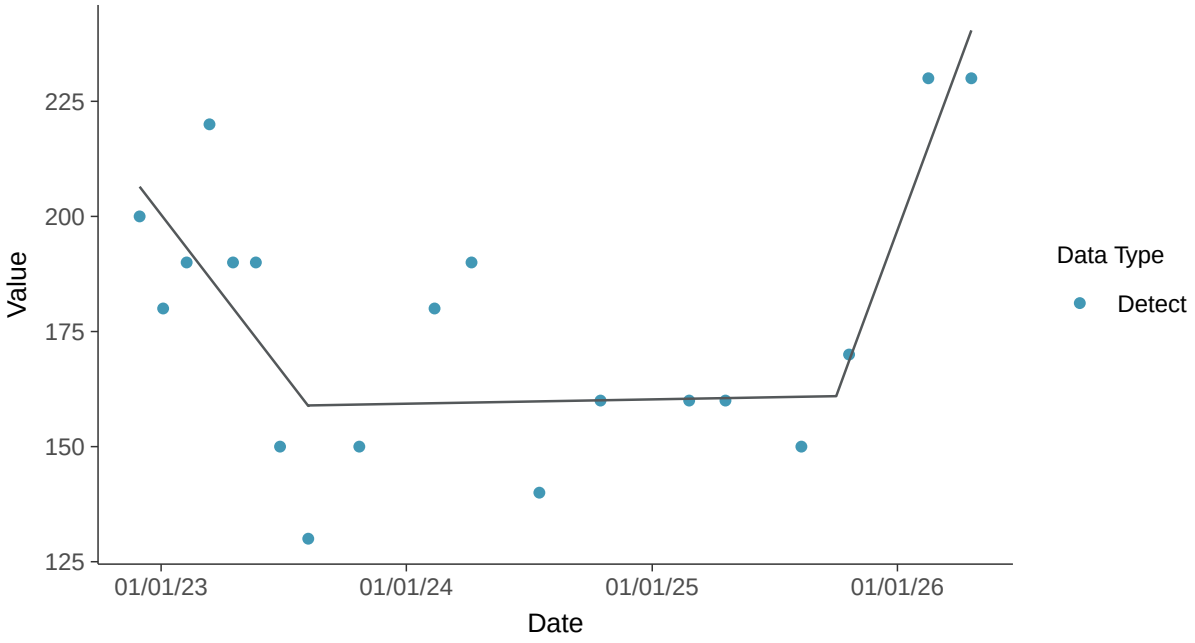
Trend Regression: Piecewise Linear-Linear

Calcium, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-32 (mg/L)

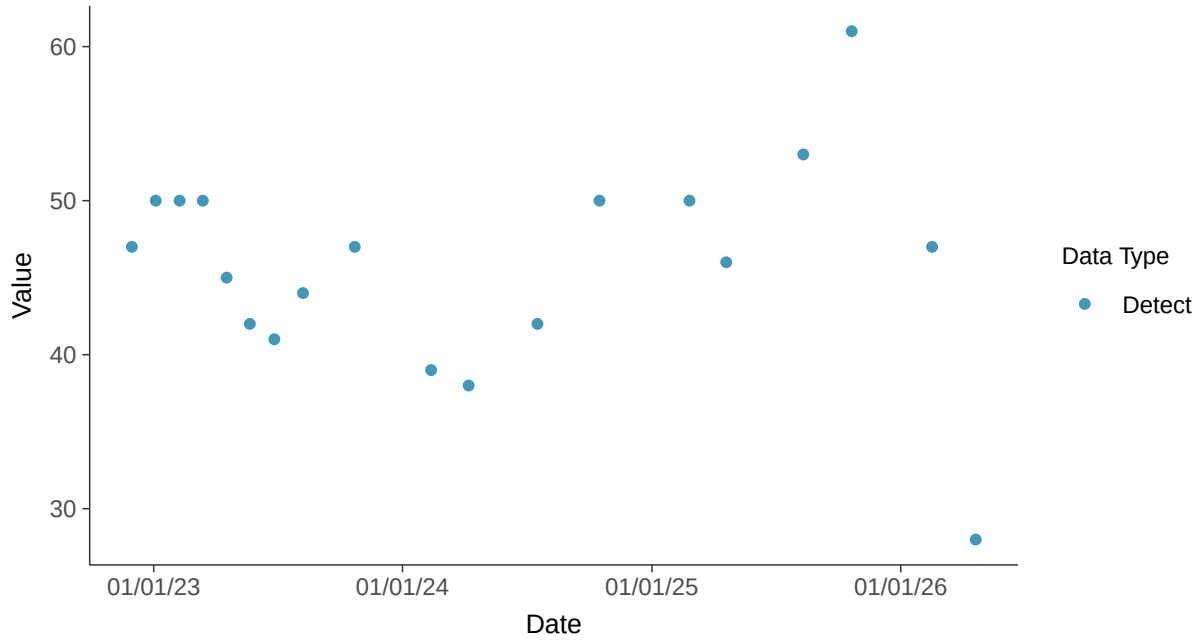


Appendix III: Chloride (as Cl), MW-32

ID: 42_1_3_108

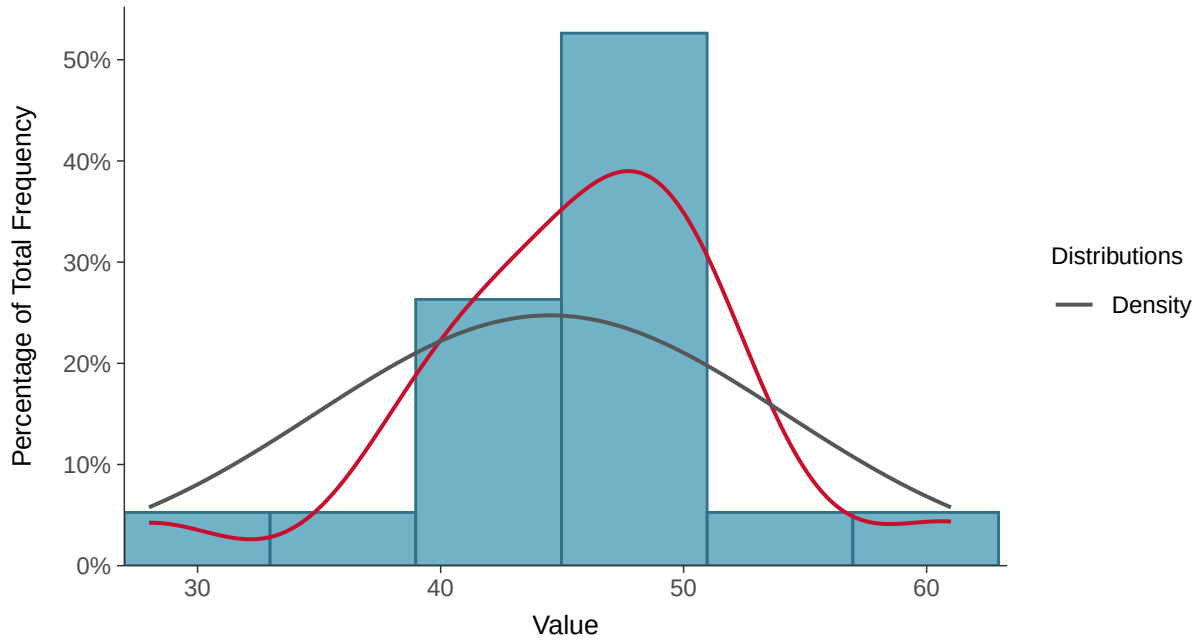
Scatter Plot

Chloride (as Cl), MW-32 (mg/L)



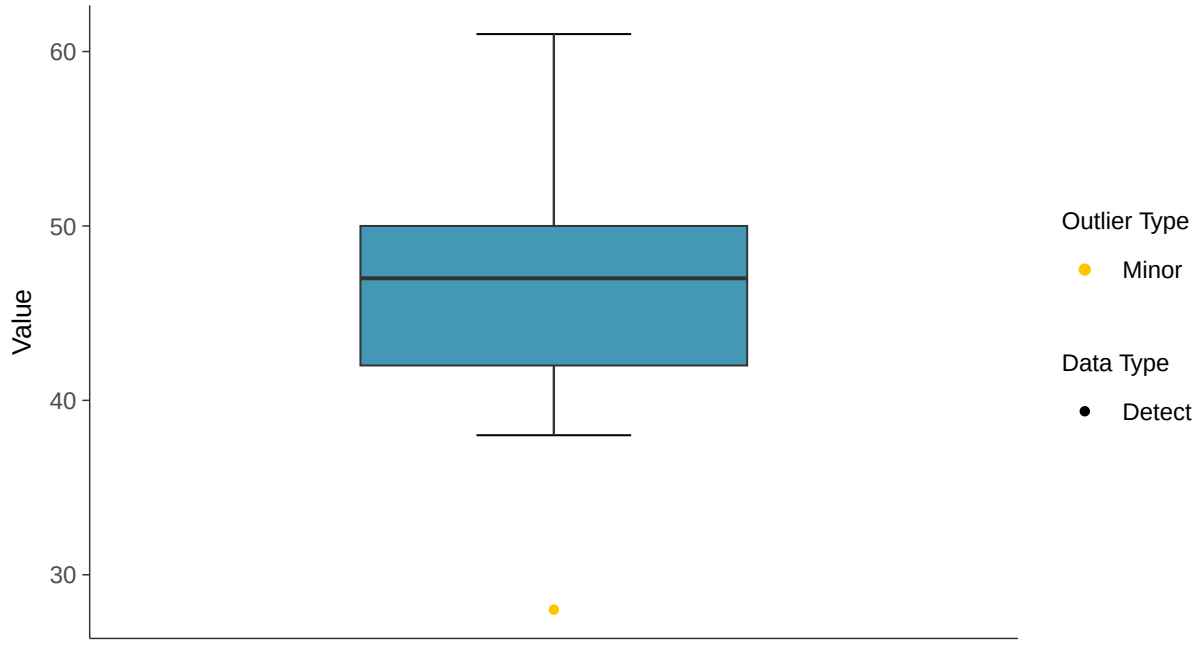
Histogram

Chloride (as Cl), MW-32 (mg/L)



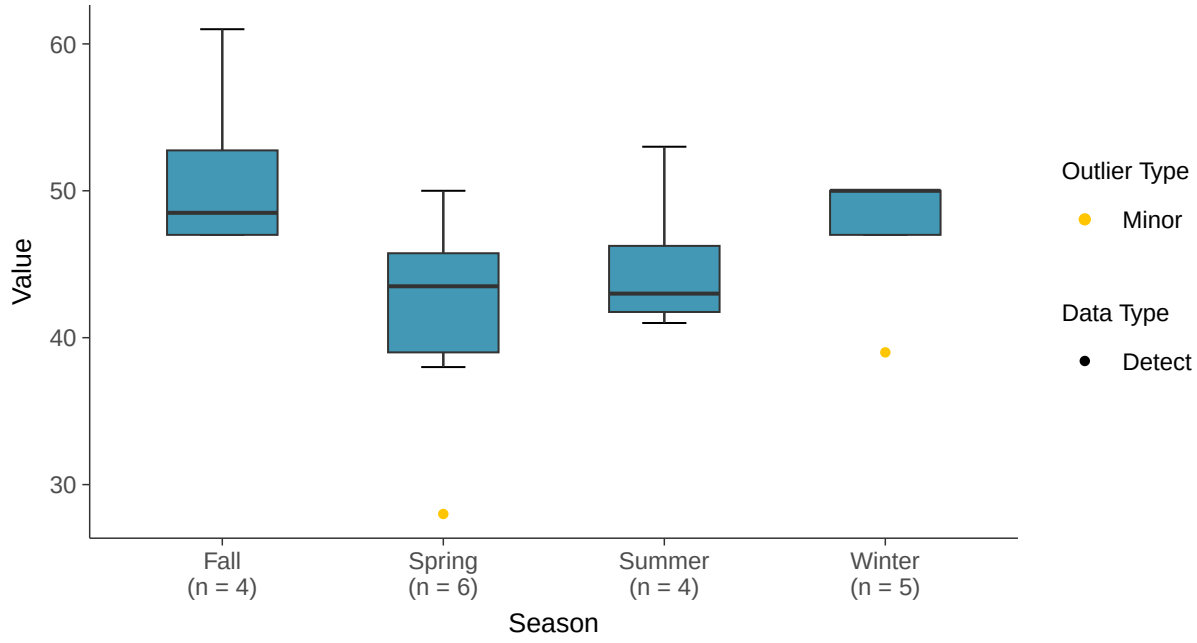
Boxplot

Chloride (as Cl), MW-32 (mg/L)



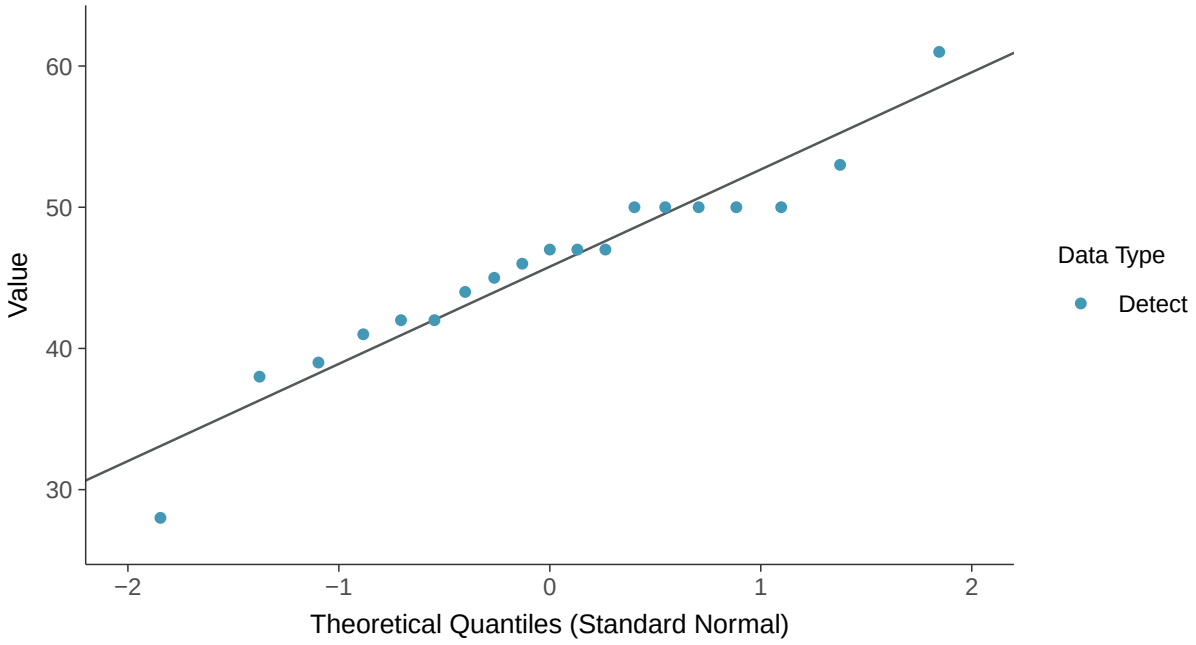
Boxplot by Season

Chloride (as Cl), MW-32 (mg/L)



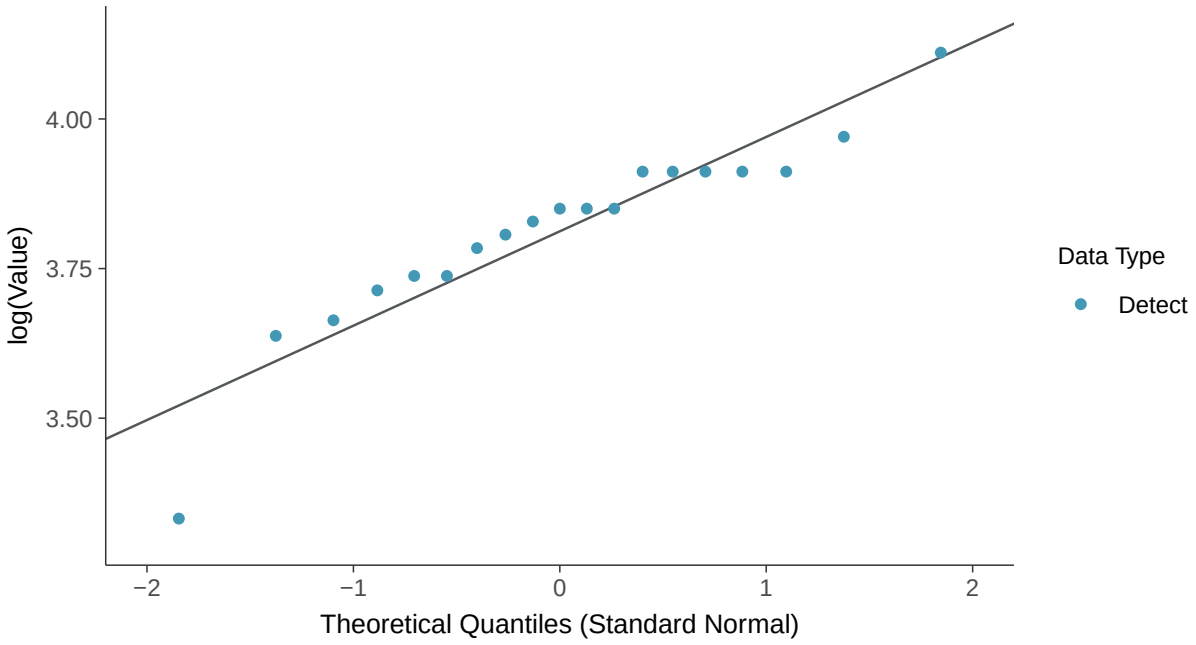
Normal Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



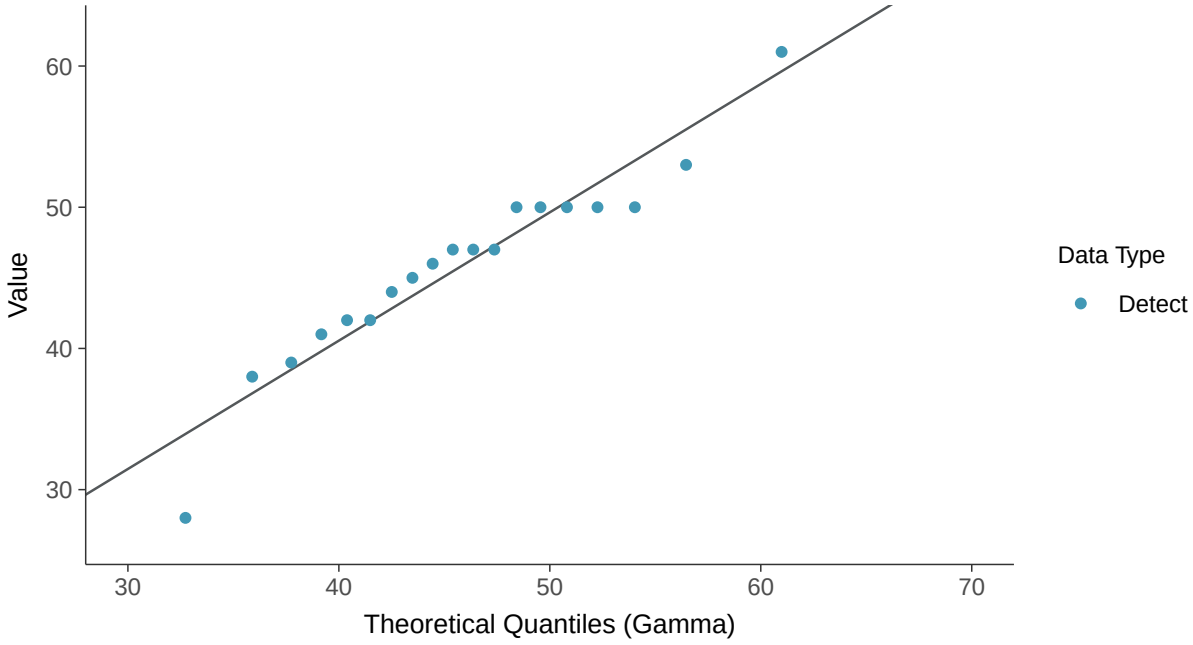
Lognormal Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



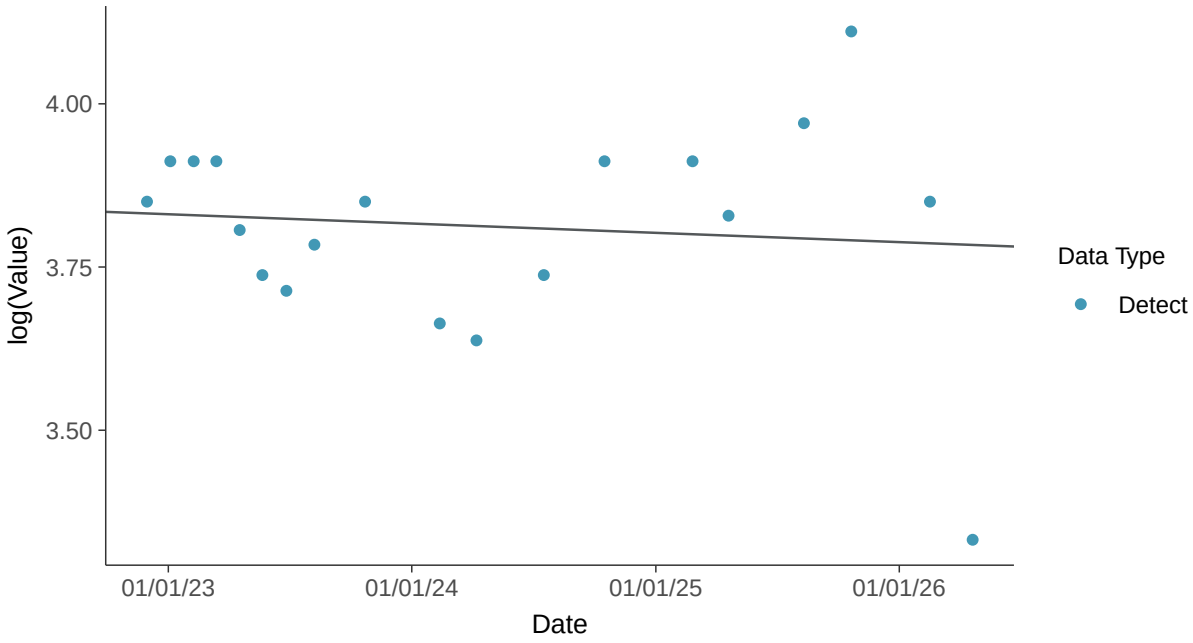
Gamma Q-Q plot

Chloride (as Cl), MW-32 (mg/L)



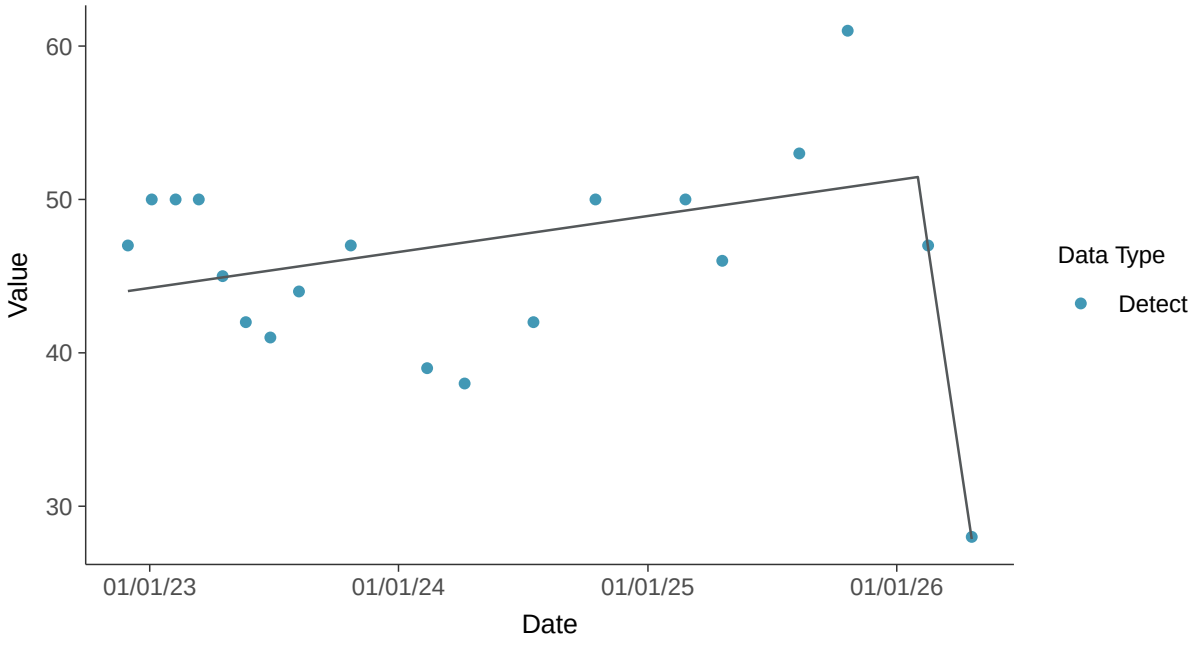
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-32 (mg/L)



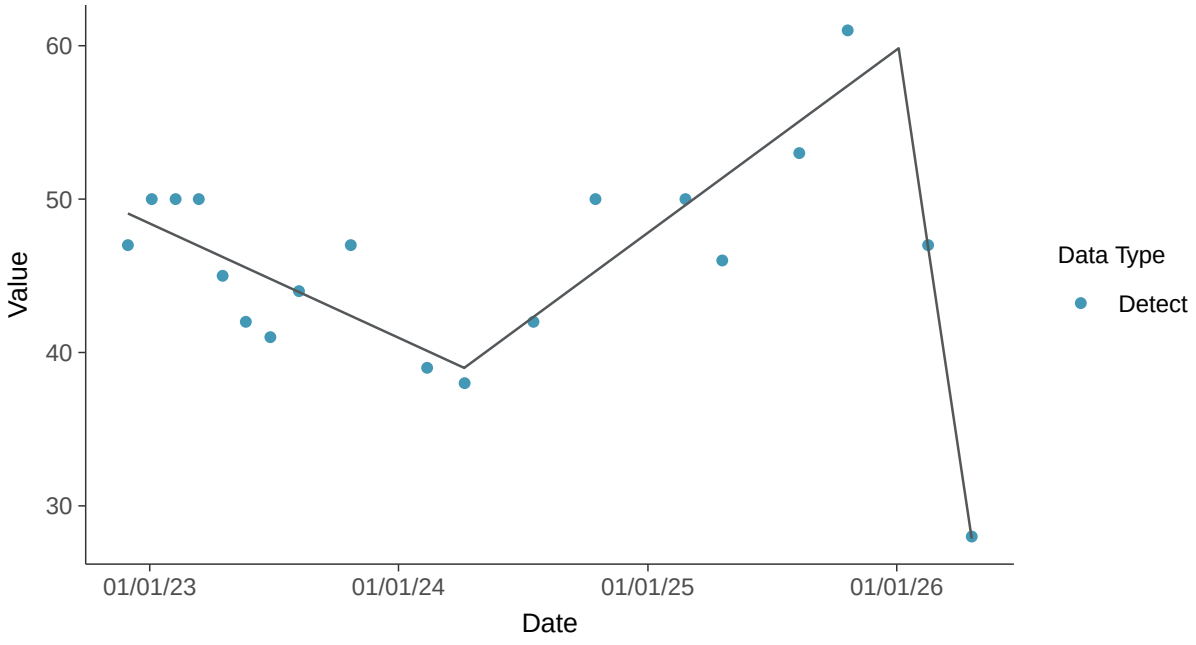
Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chloride (as Cl), MW-32 (mg/L)

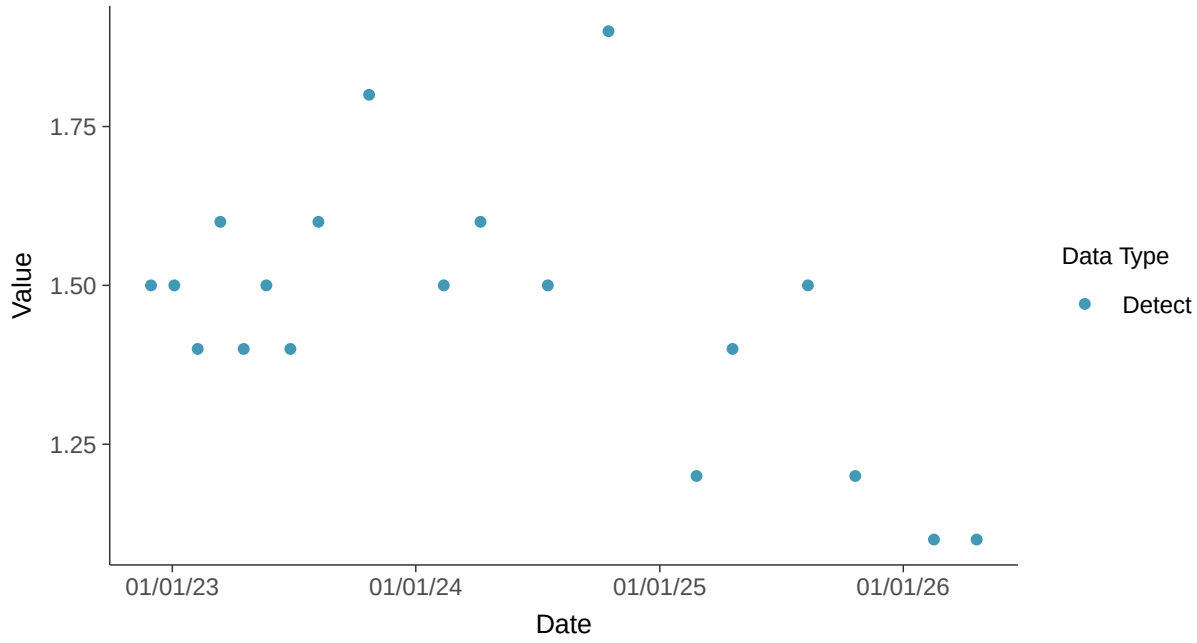


Appendix III: Fluoride, MW-32

ID: 42_1_3_112

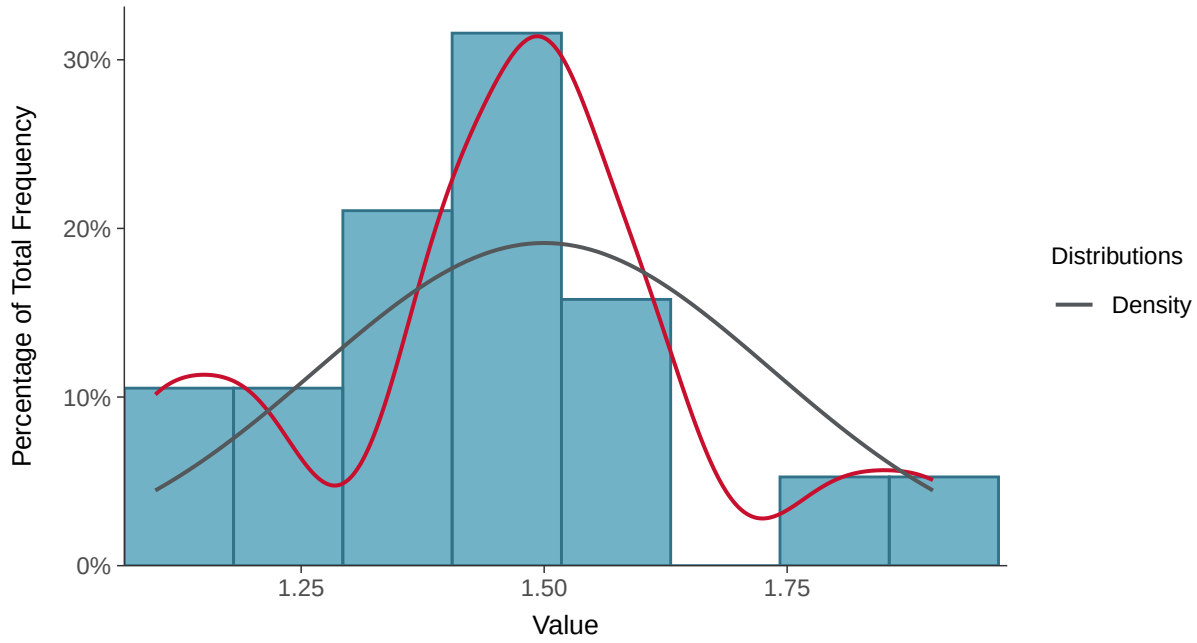
Scatter Plot

Fluoride, MW-32 (mg/L)



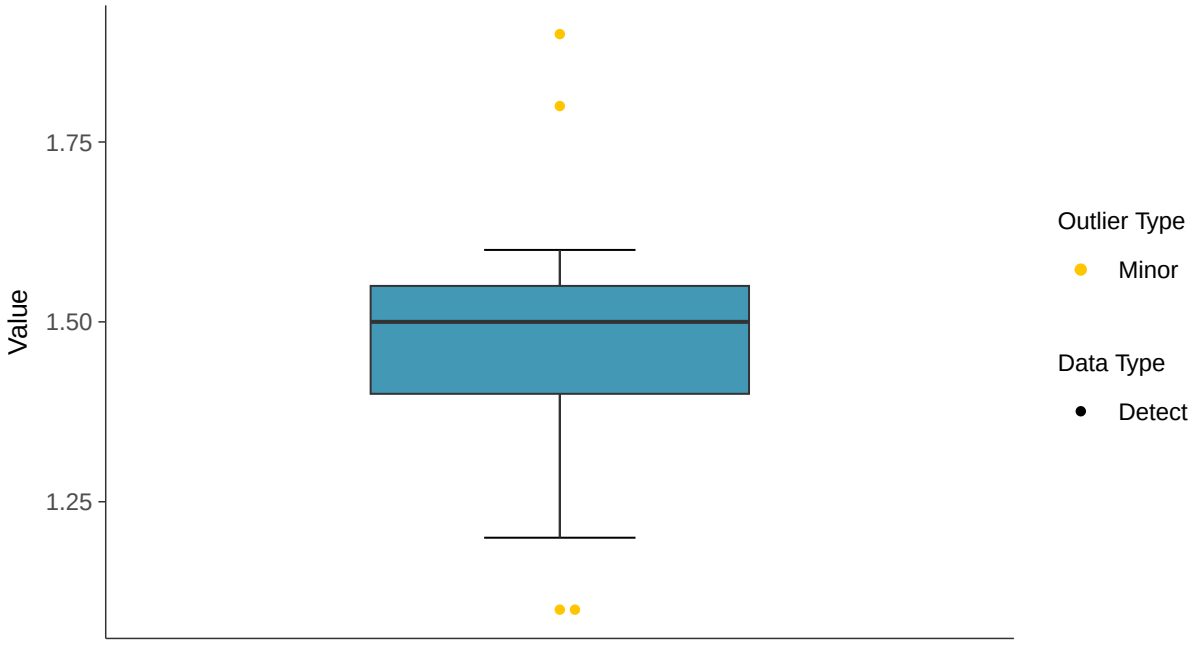
Histogram

Fluoride, MW-32 (mg/L)



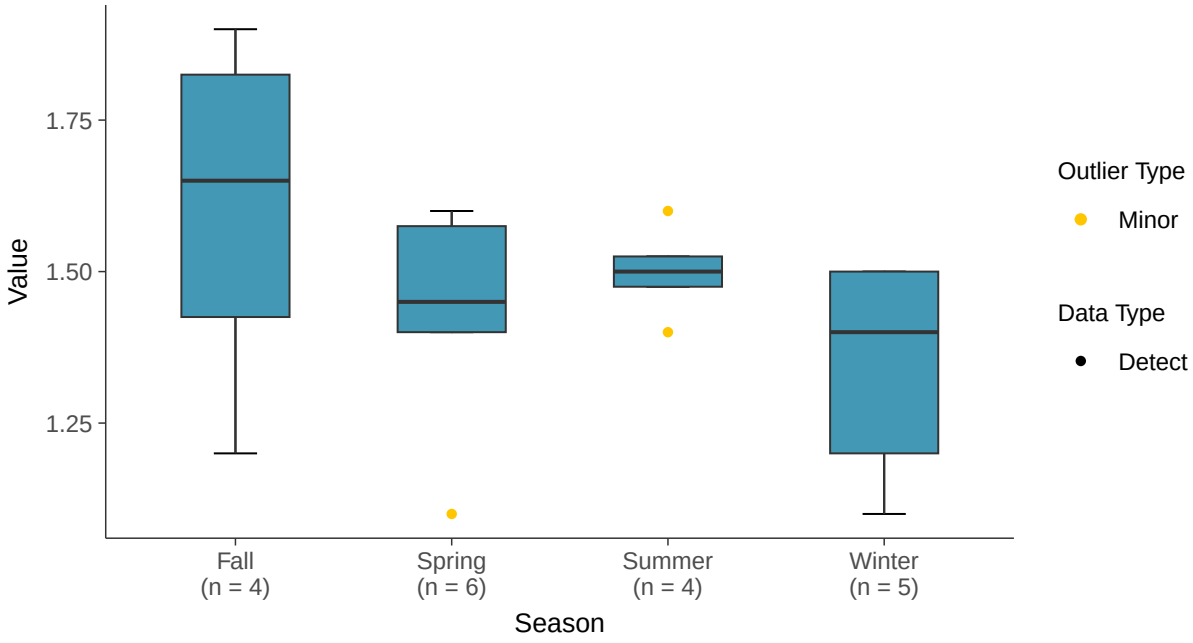
Boxplot

Fluoride, MW-32 (mg/L)



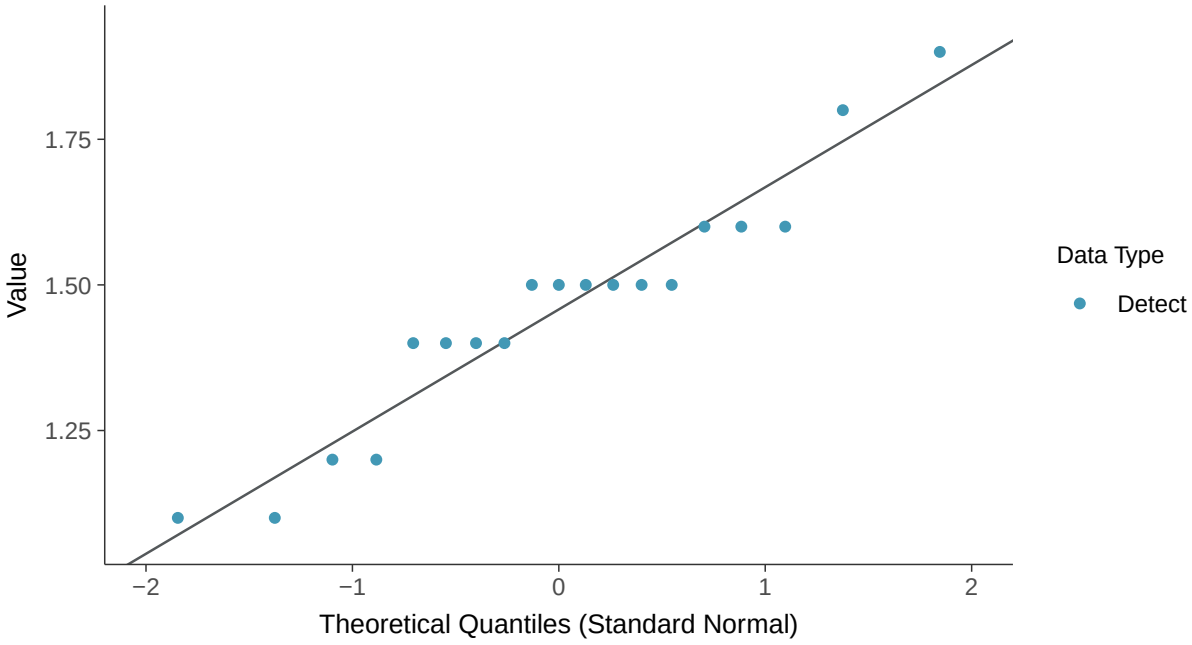
Boxplot by Season

Fluoride, MW-32 (mg/L)



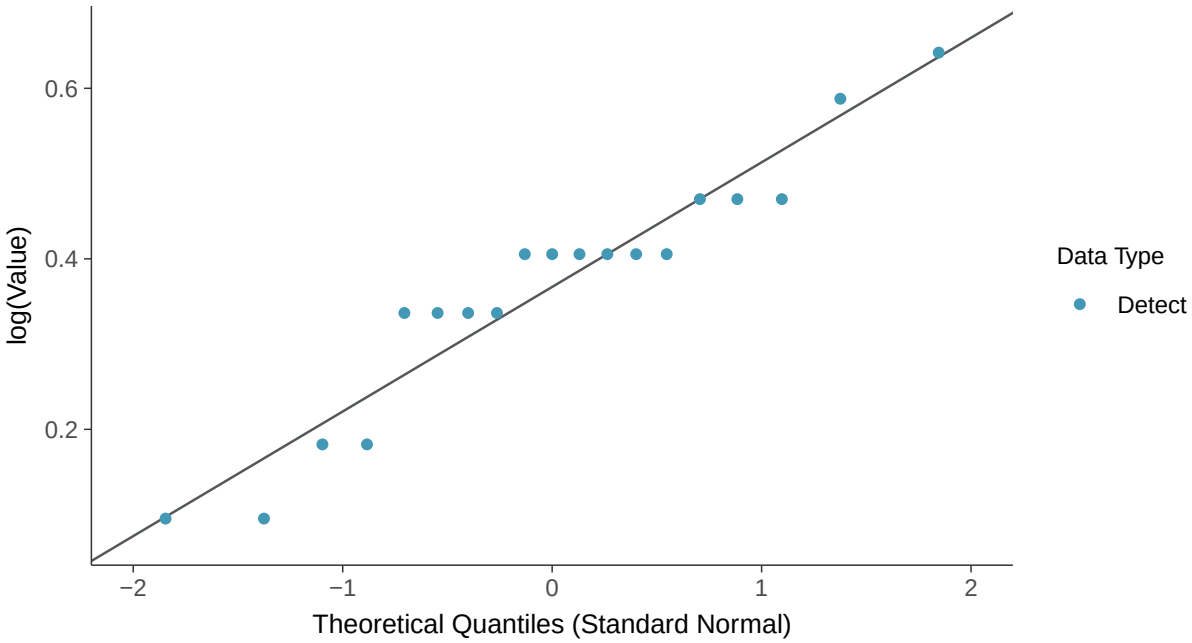
Normal Q-Q plot

Fluoride, MW-32 (mg/L)



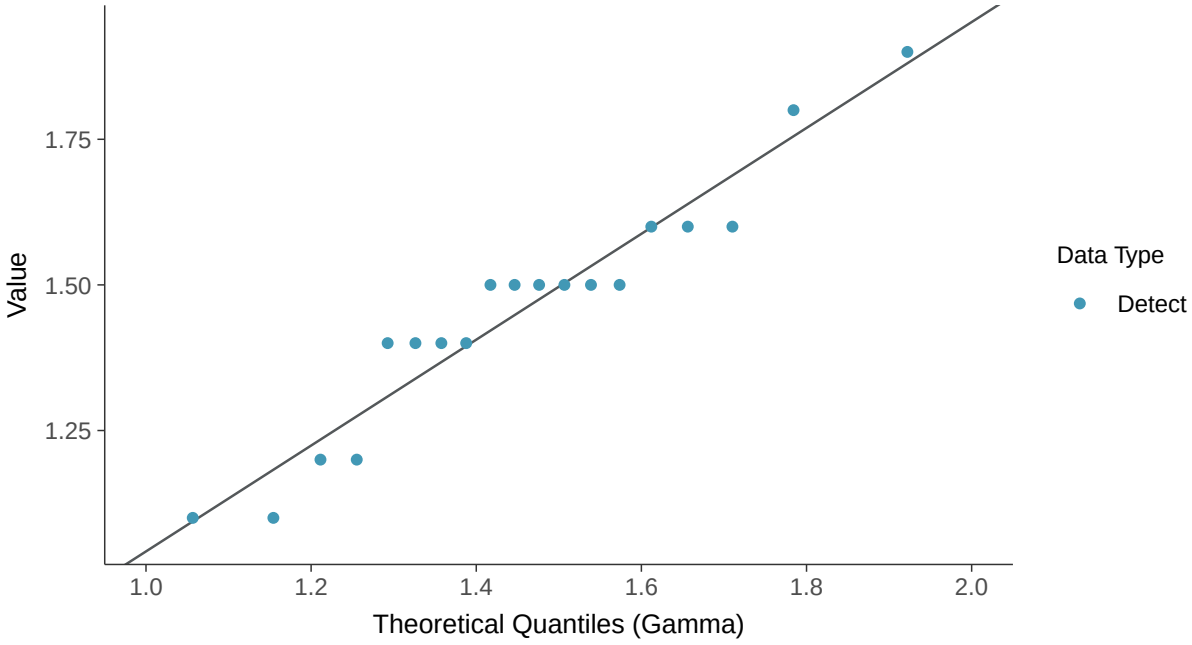
Lognormal Q-Q plot

Fluoride, MW-32 (mg/L)



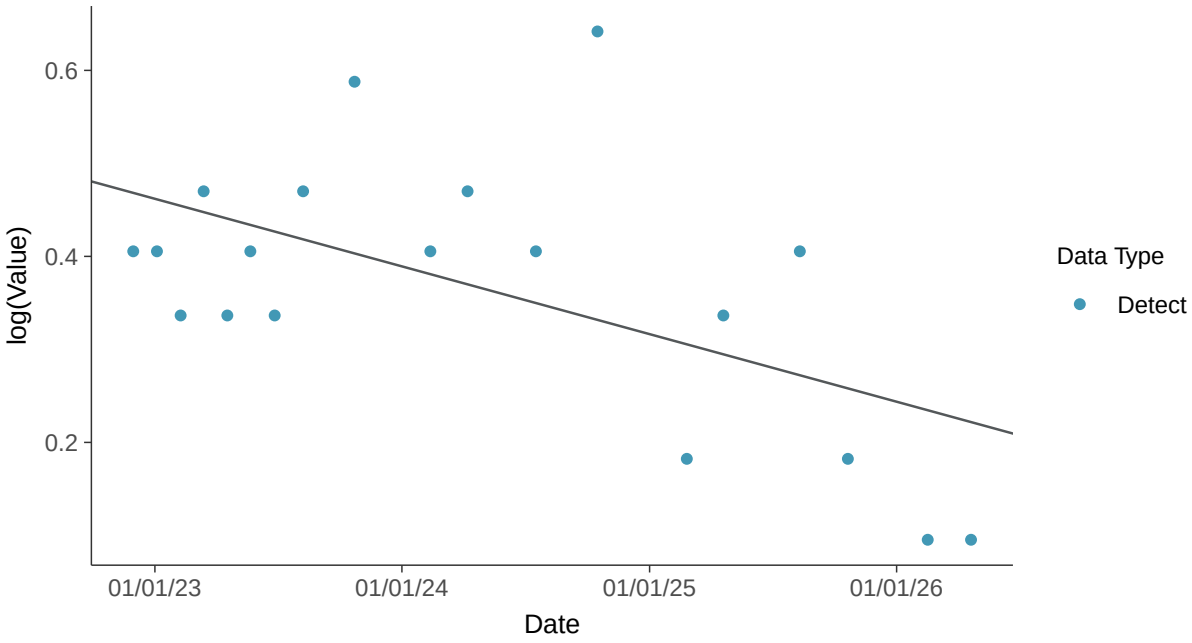
Gamma Q-Q plot

Fluoride, MW-32 (mg/L)



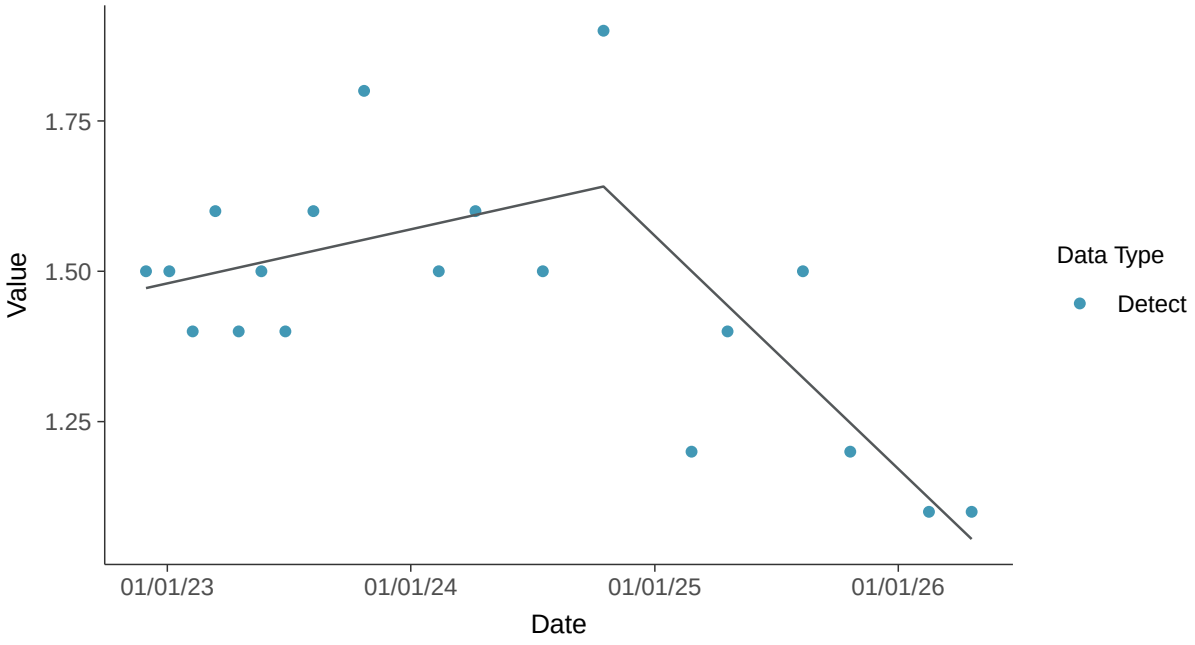
Trend Regression: Lognormal MLE

Fluoride, MW-32 (mg/L)



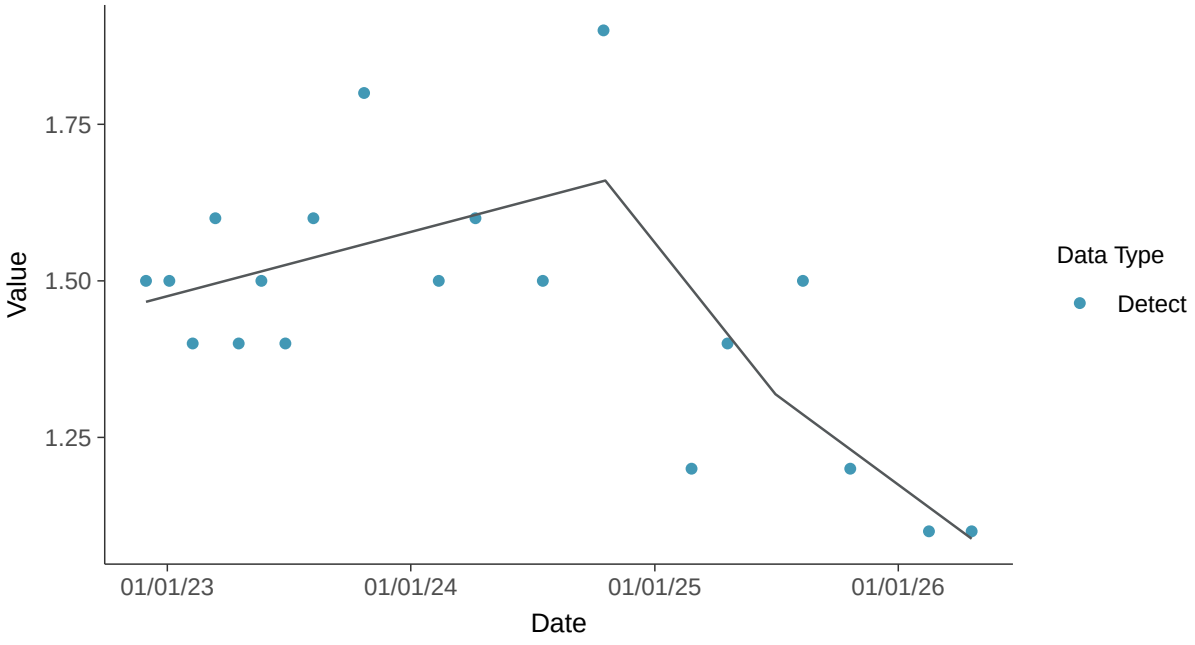
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-32 (mg/L)



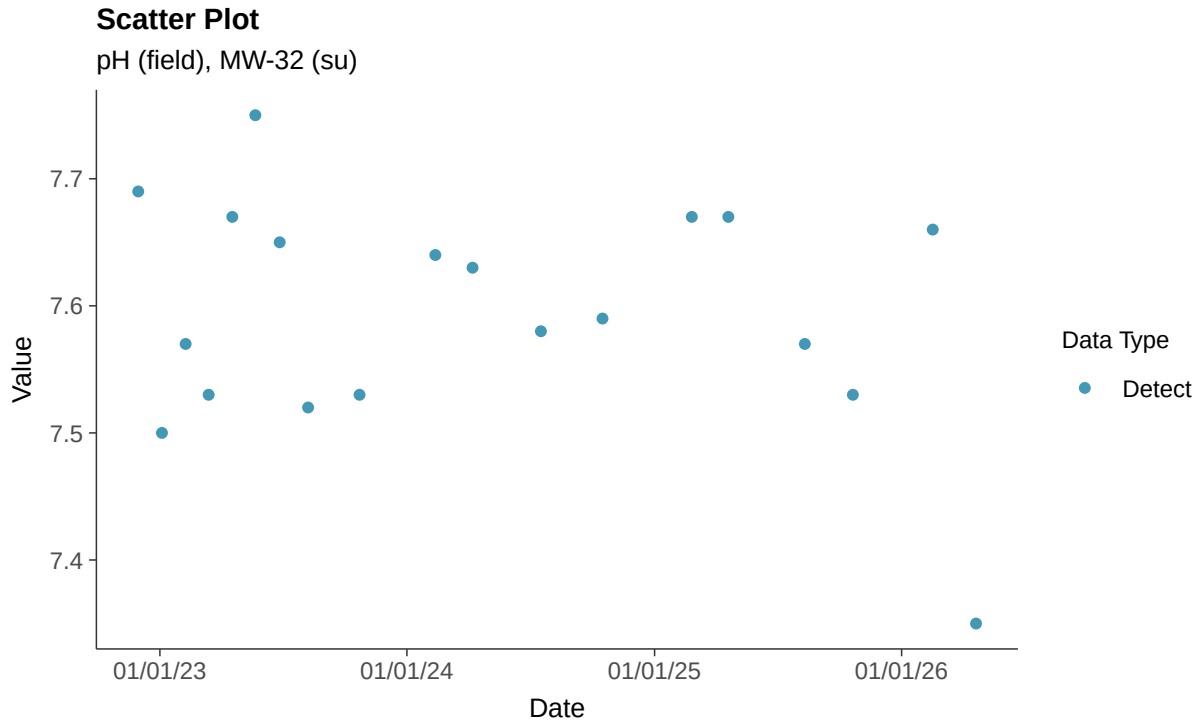
Trend Regression: Piecewise Linear-Linear-Linear

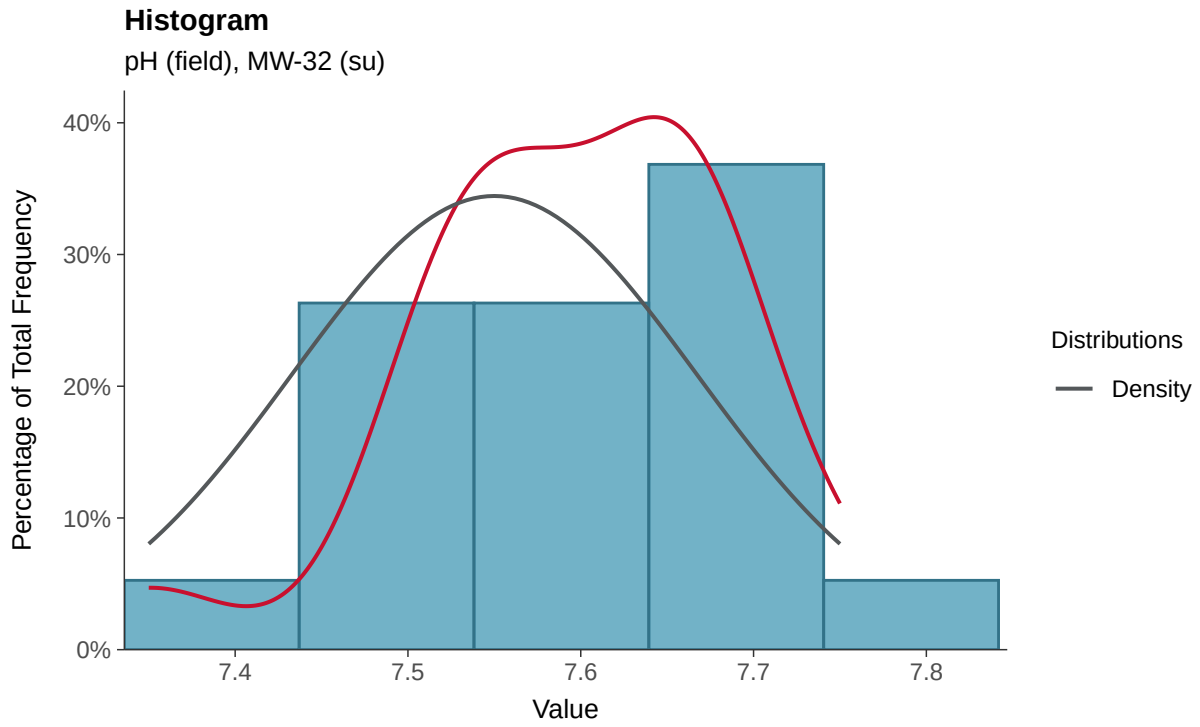
Fluoride, MW-32 (mg/L)



Appendix III: pH (field), MW-32

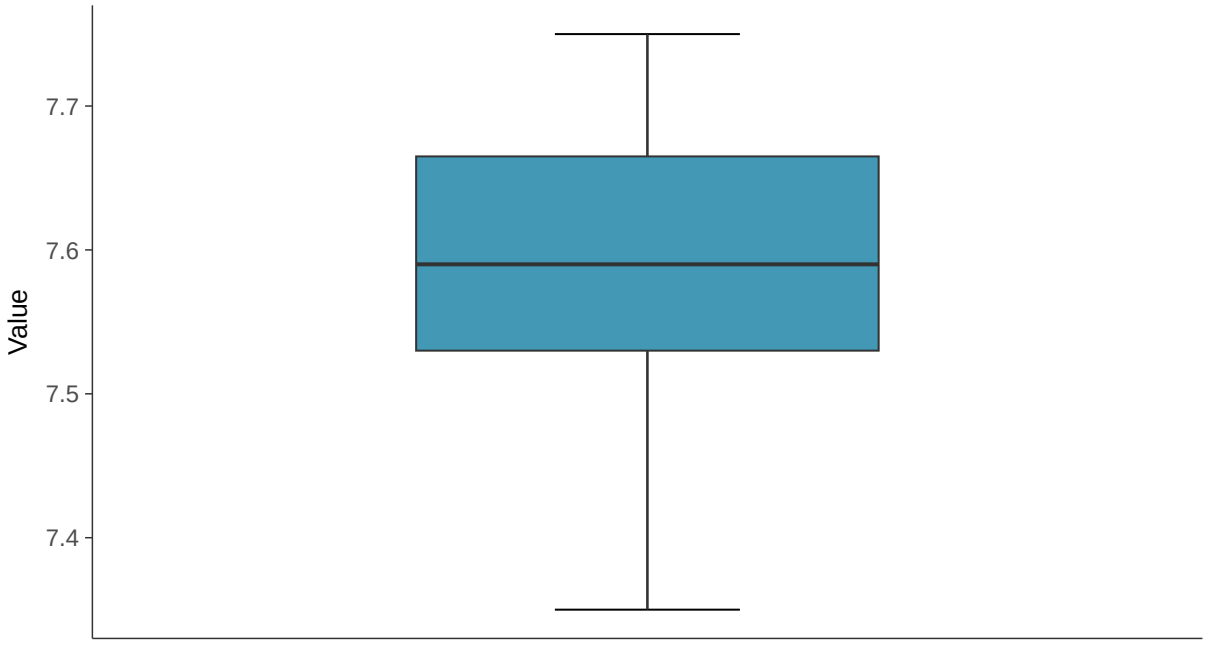
ID: 42_1_3_120





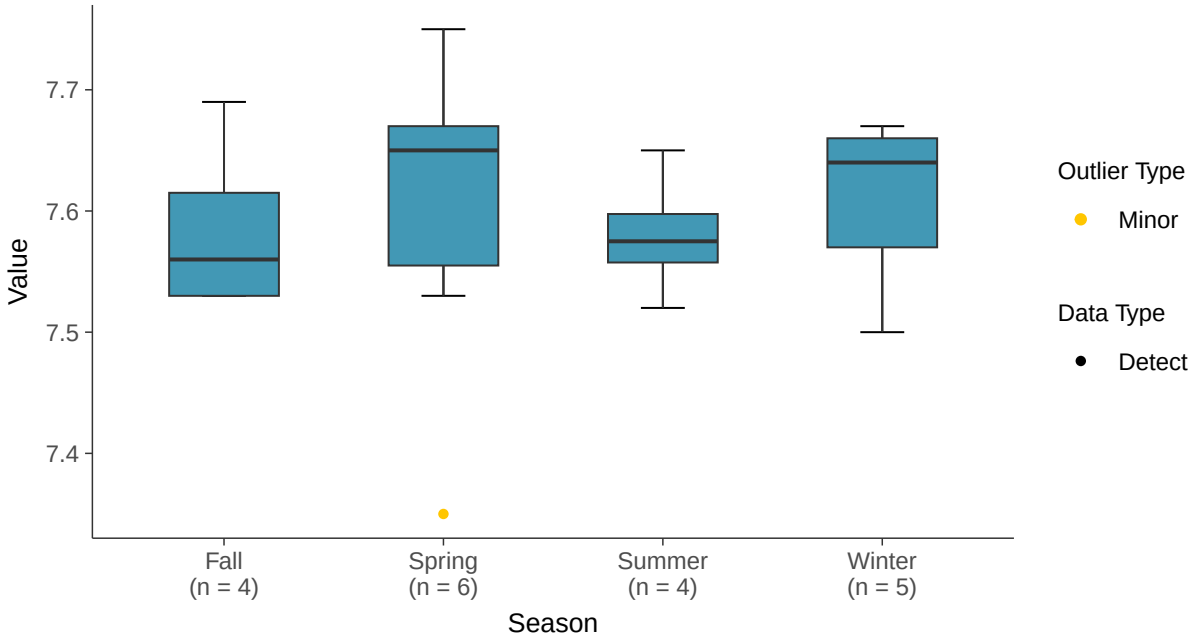
Boxplot

pH (field), MW-32 (su)



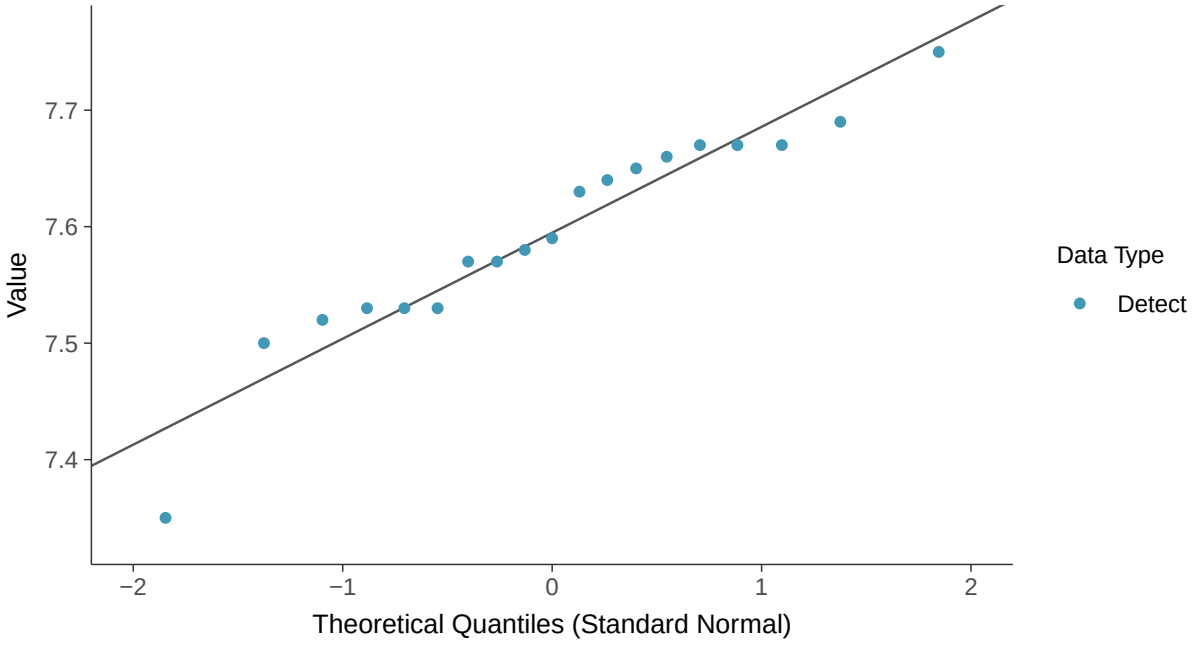
Boxplot by Season

pH (field), MW-32 (su)



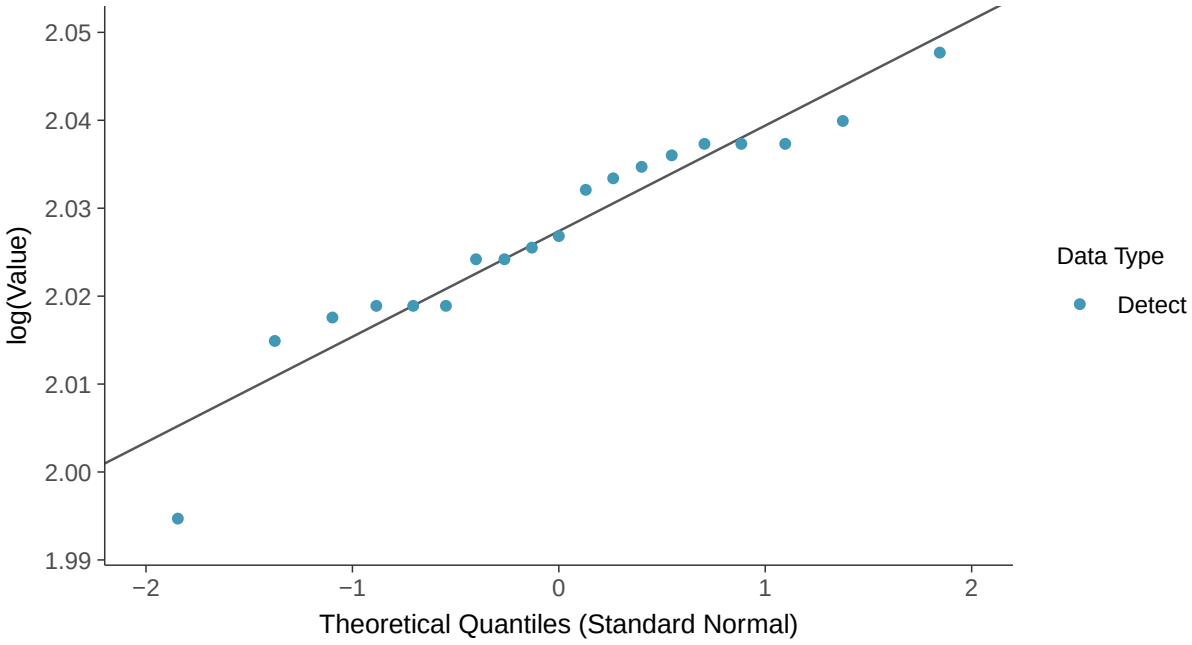
Normal Q-Q plot

pH (field), MW-32 (su)



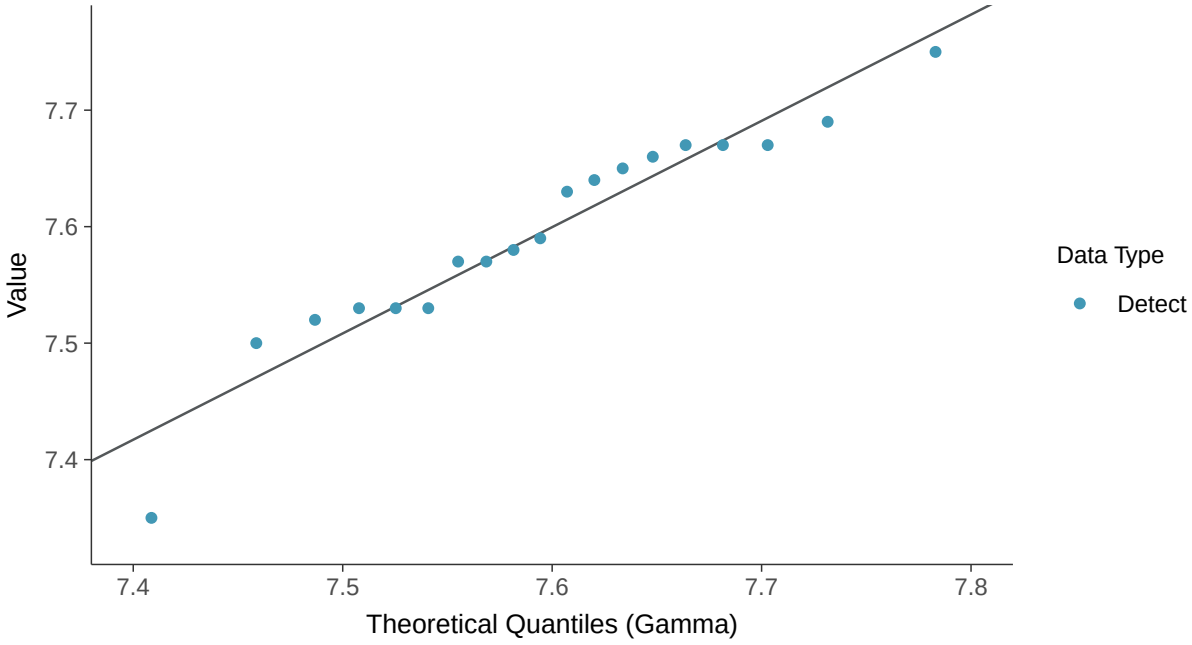
Lognormal Q-Q plot

pH (field), MW-32 (su)



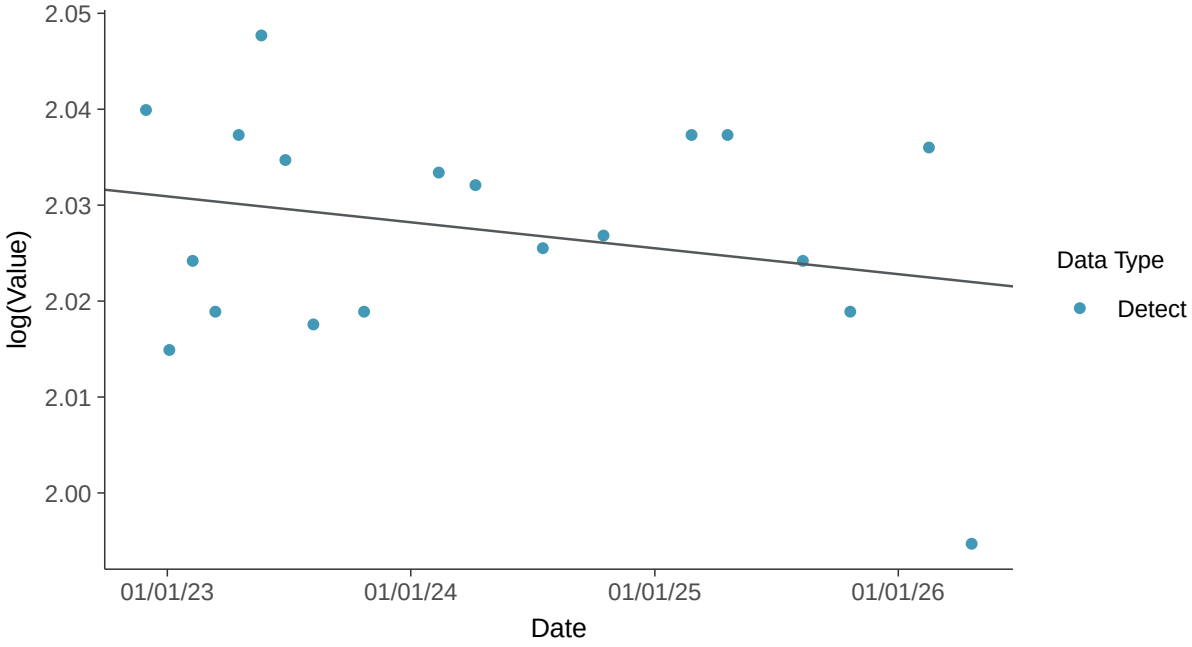
Gamma Q-Q plot

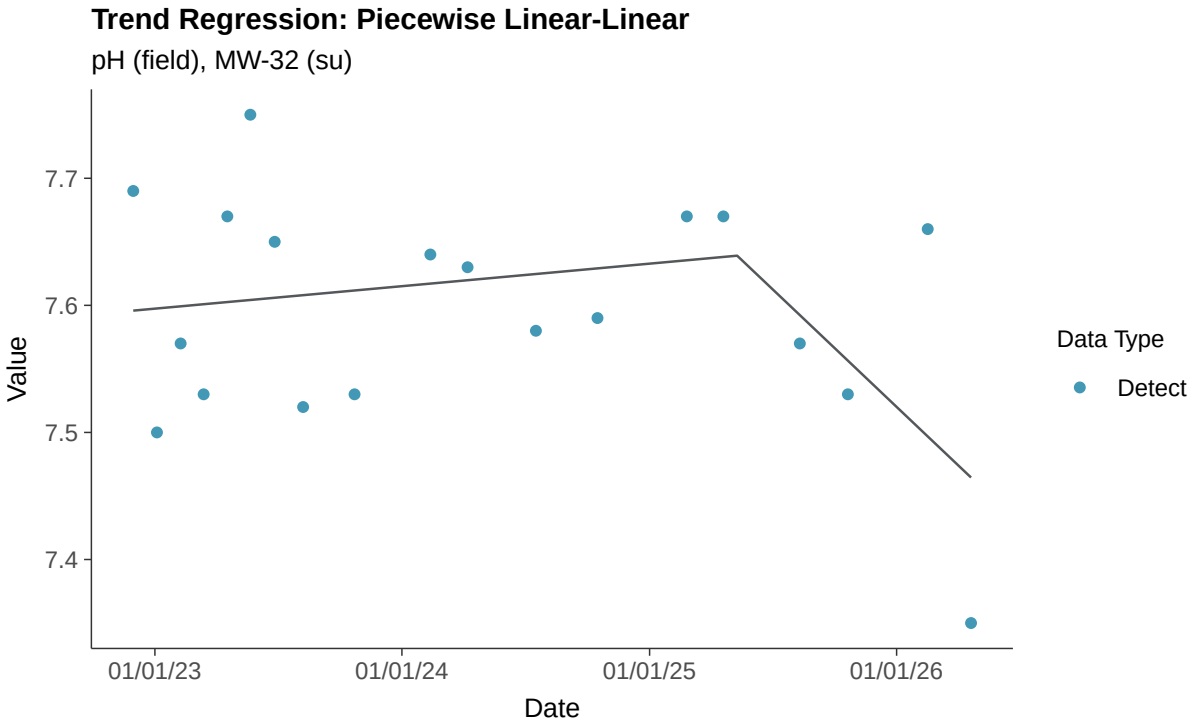
pH (field), MW-32 (su)



Trend Regression: Lognormal MLE

pH (field), MW-32 (su)



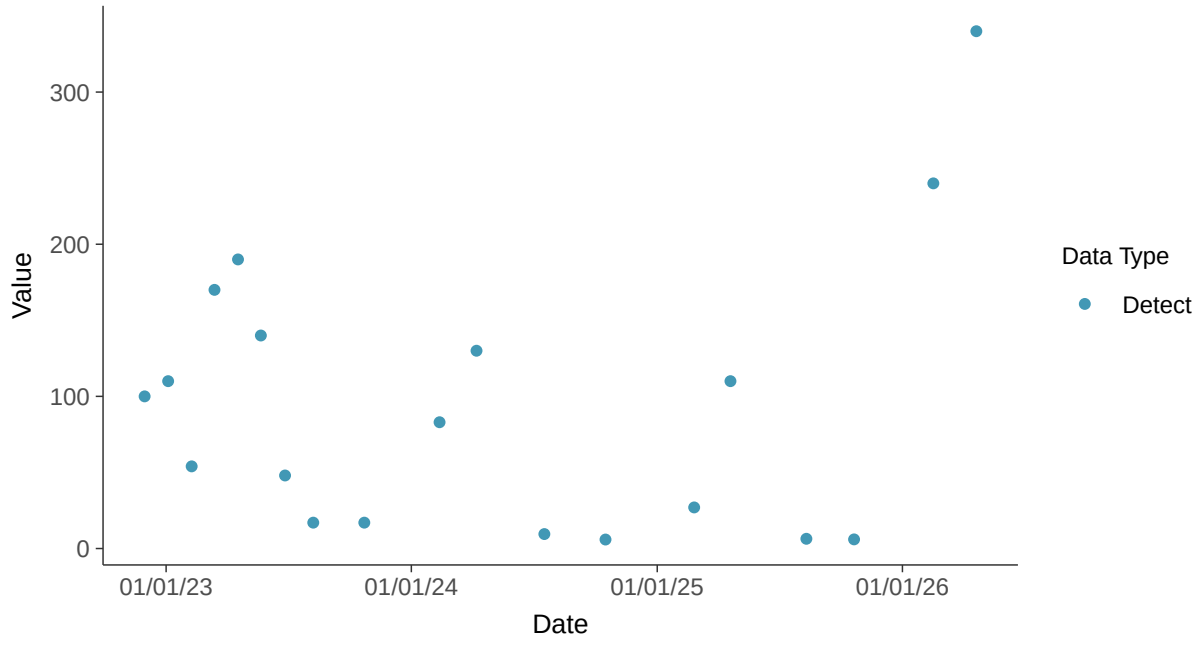

Trend Regression: Piecewise Linear-Linear
pH (field), MW-32 (su)
Value
7.7
7.6
7.5
7.4
01/01/23
01/01/24
01/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Sulfate (as SO4), MW-32

ID: 42_1_3_124

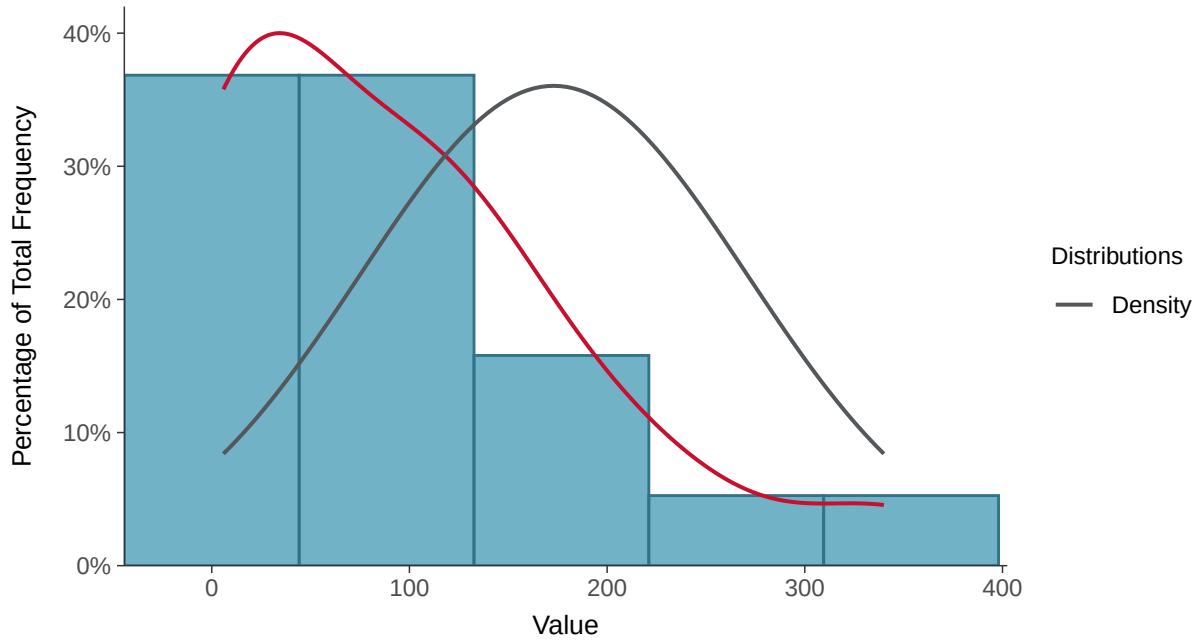
Scatter Plot

Sulfate (as SO4), MW-32 (mg/L)



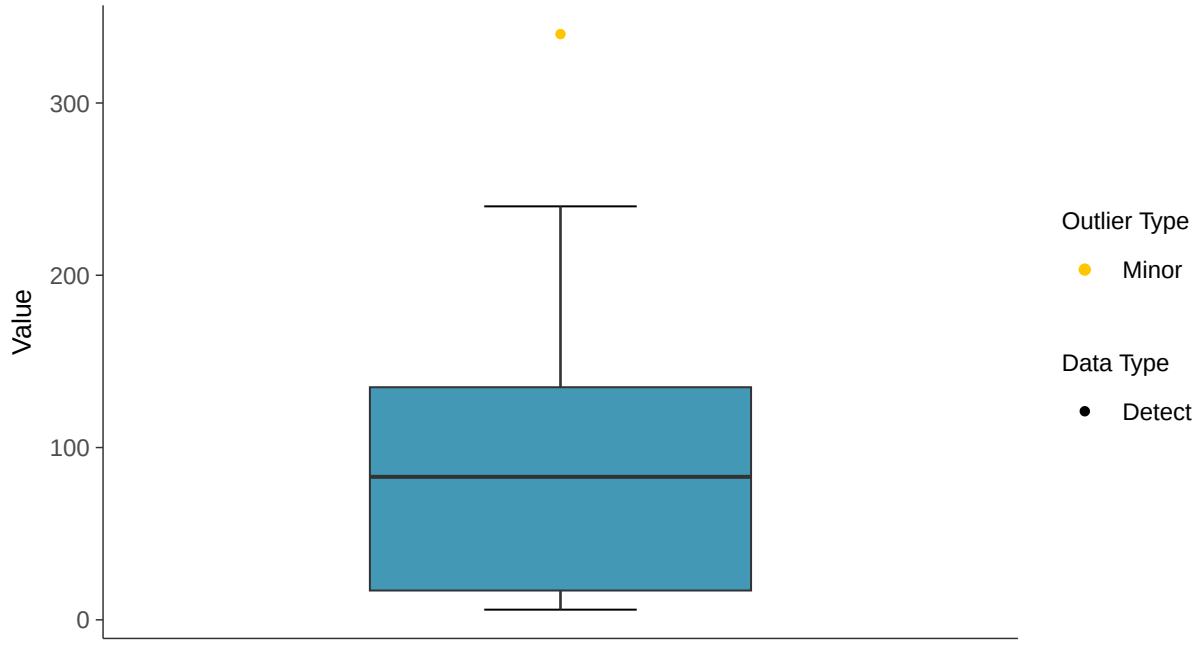
Histogram

Sulfate (as SO4), MW-32 (mg/L)



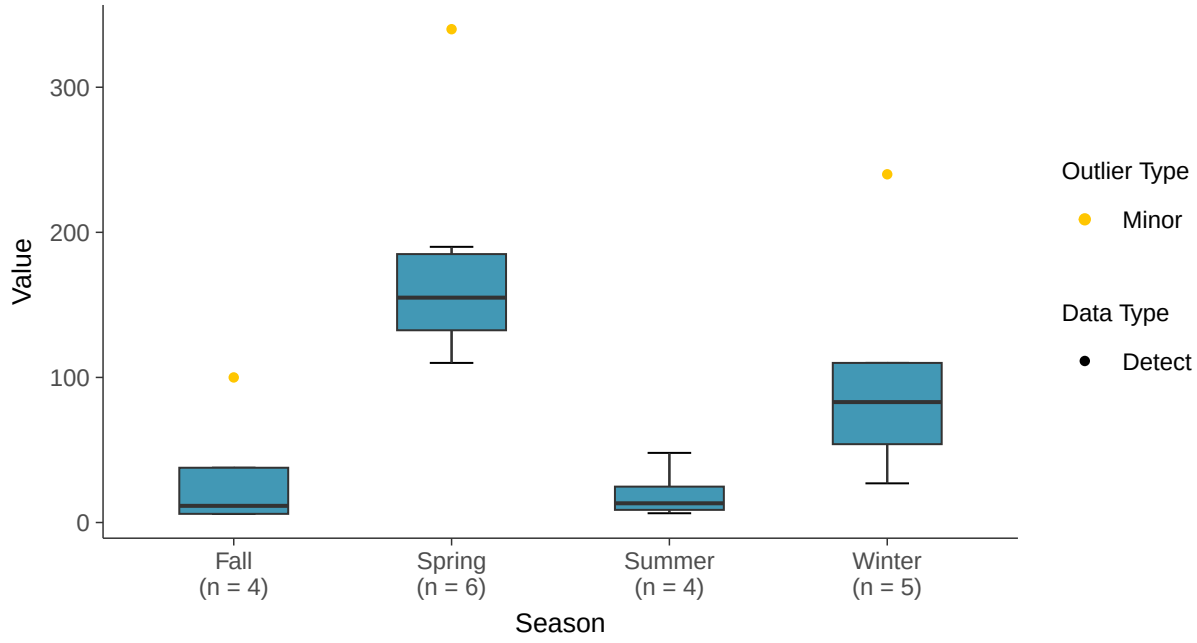
Boxplot

Sulfate (as SO4), MW-32 (mg/L)



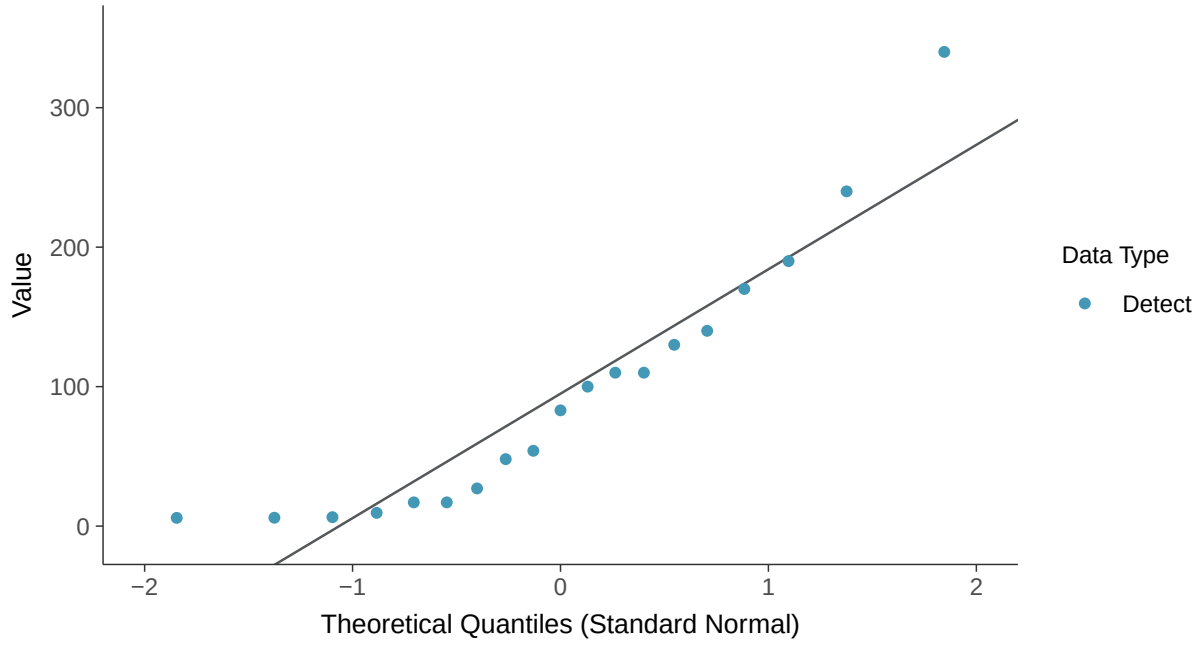
Boxplot by Season

Sulfate (as SO4), MW-32 (mg/L)



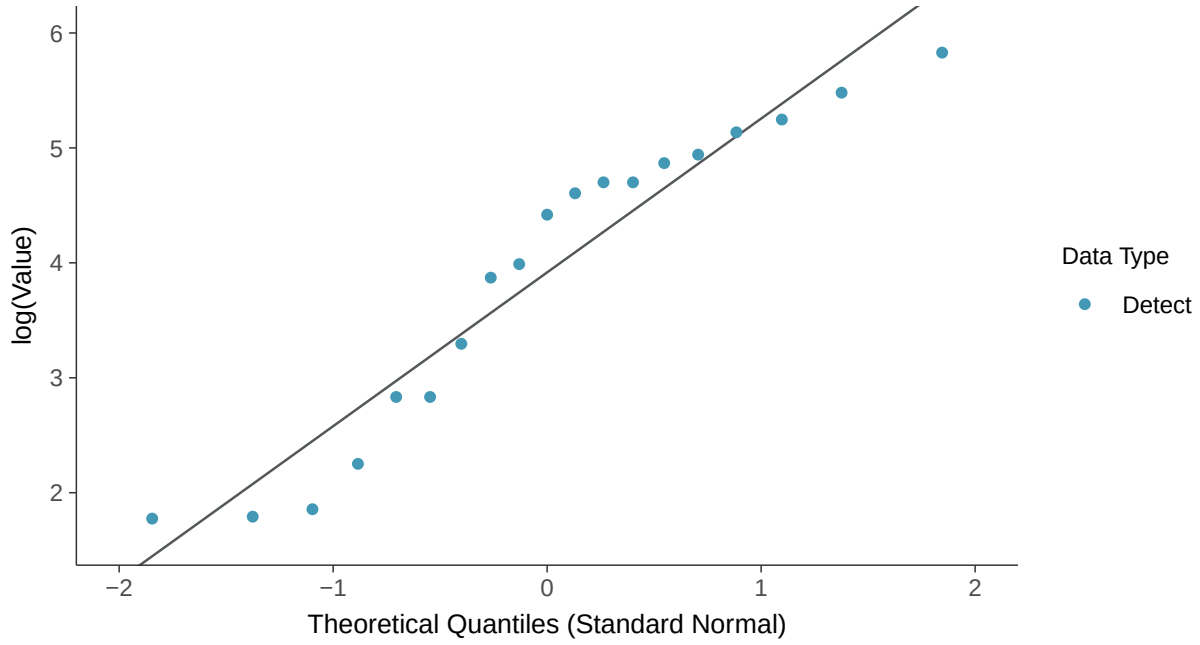
Normal Q-Q plot

Sulfate (as SO4), MW-32 (mg/L)



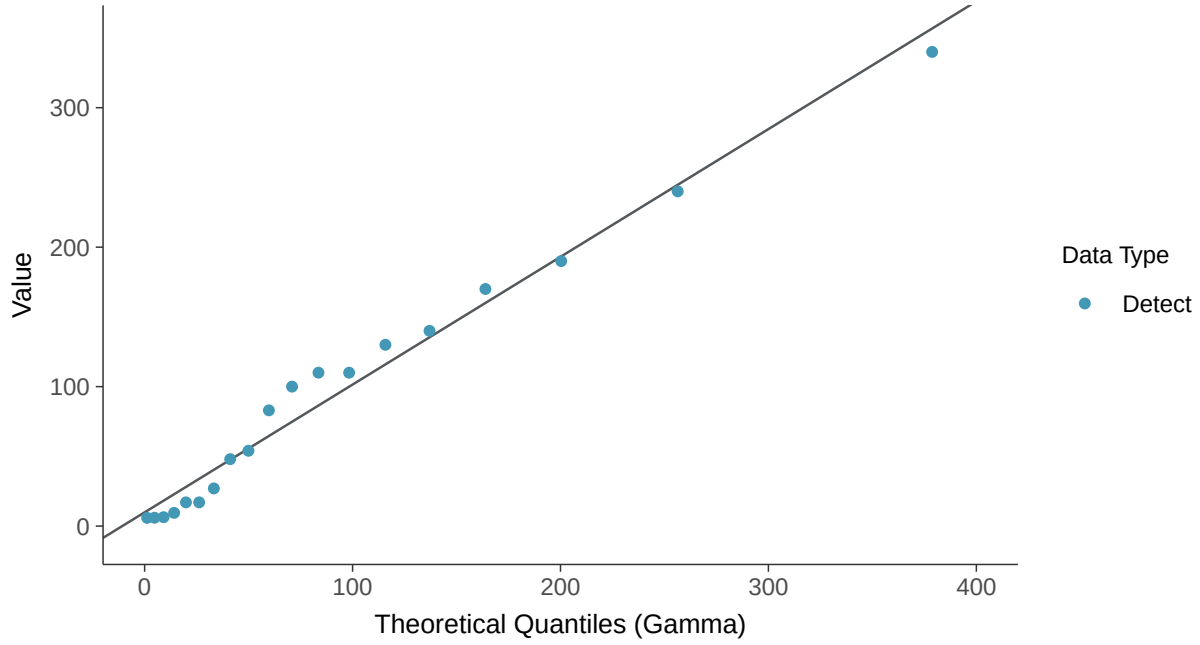
Lognormal Q-Q plot

Sulfate (as SO4), MW-32 (mg/L)



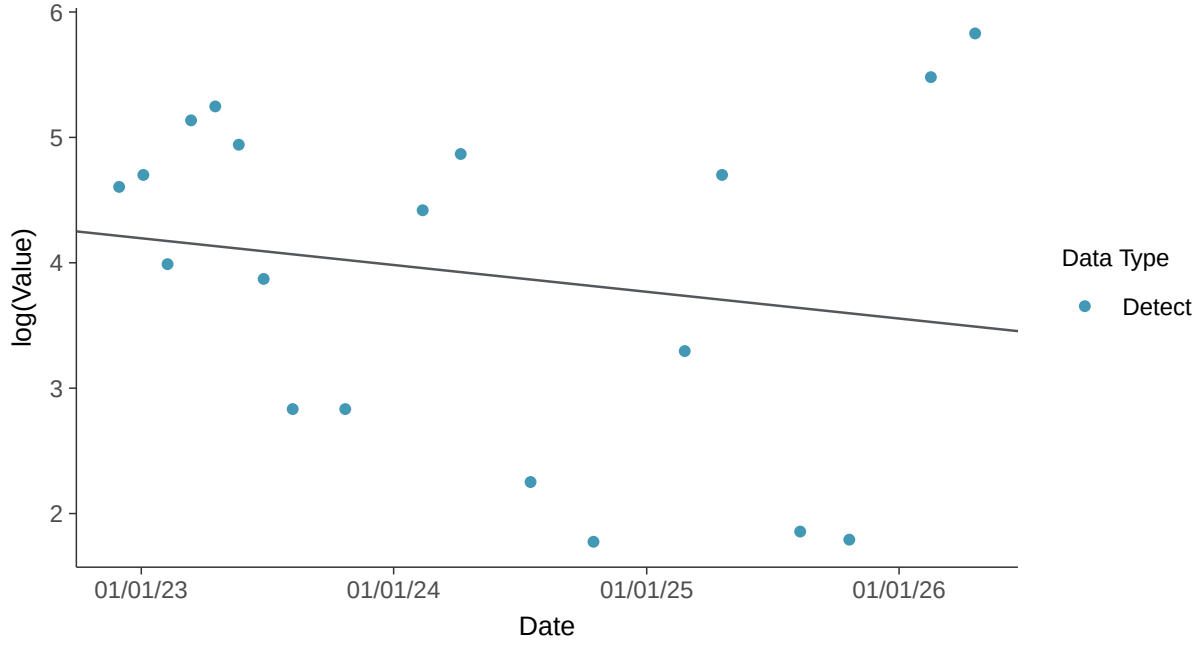
Gamma Q-Q plot

Sulfate (as SO4), MW-32 (mg/L)



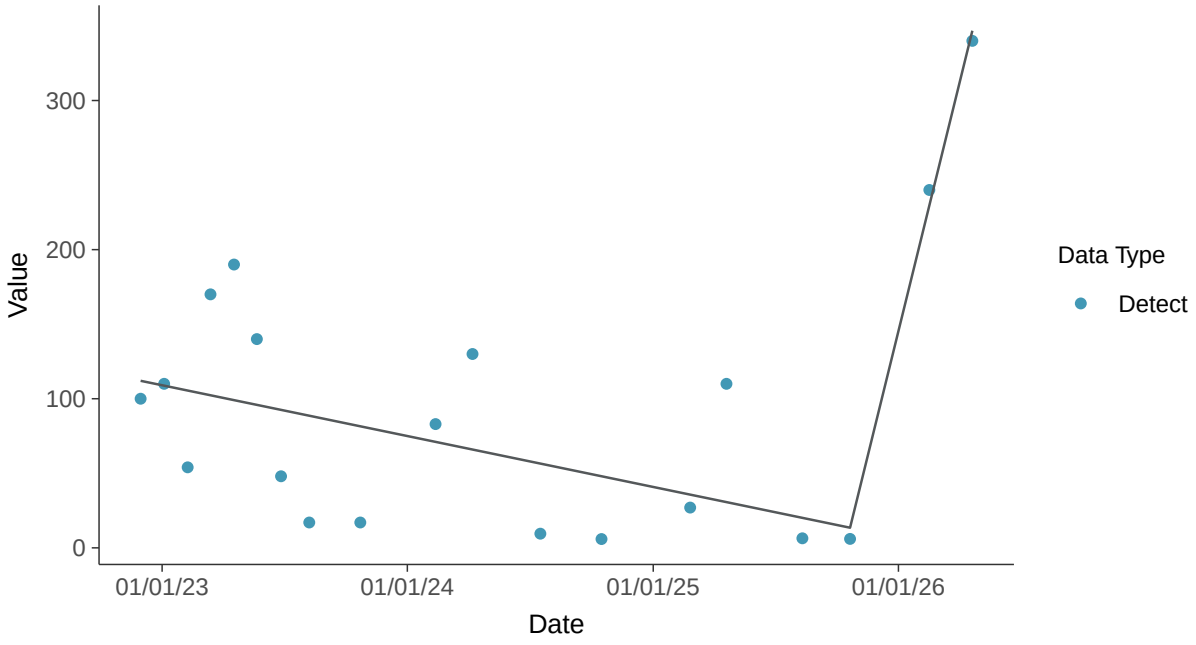
Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-32 (mg/L)



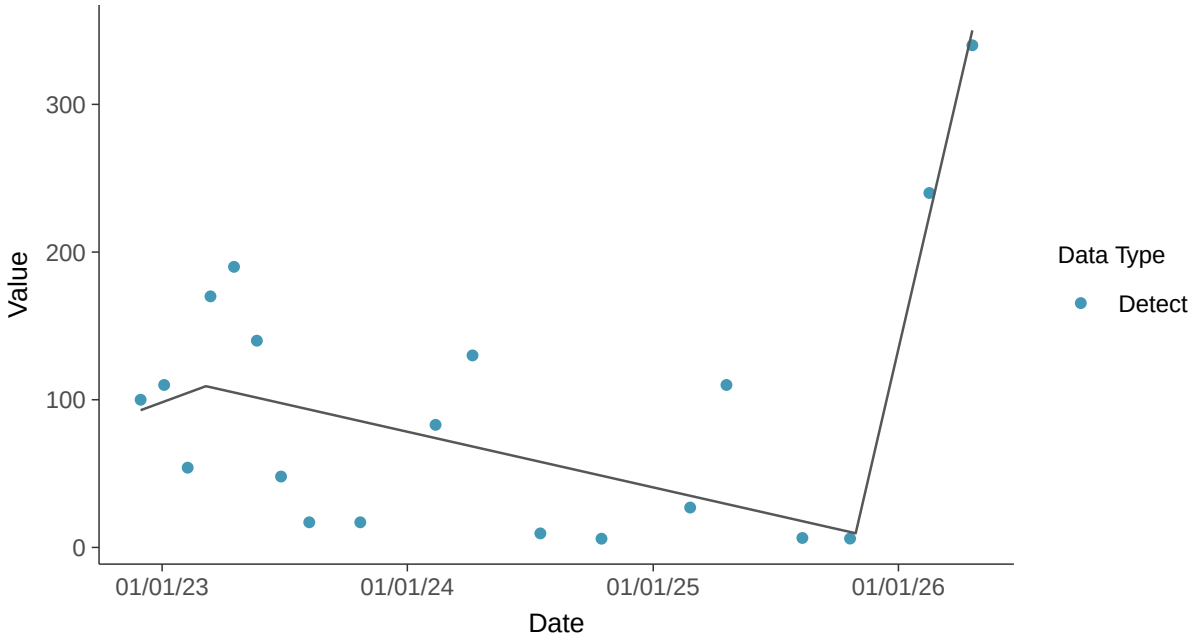
Trend Regression: Piecewise Linear-Linear

Sulfate (as SO4), MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Sulfate (as SO4), MW-32 (mg/L)

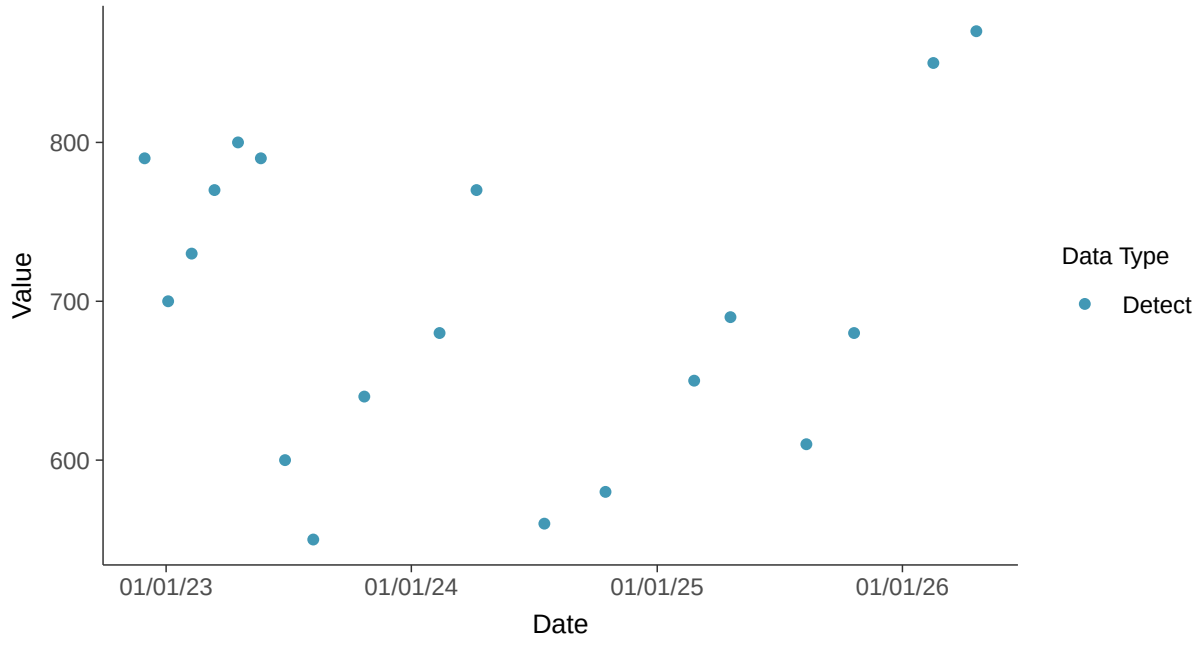


Appendix III: Total Dissolved Solids, MW-32

ID: 42_1_3_126

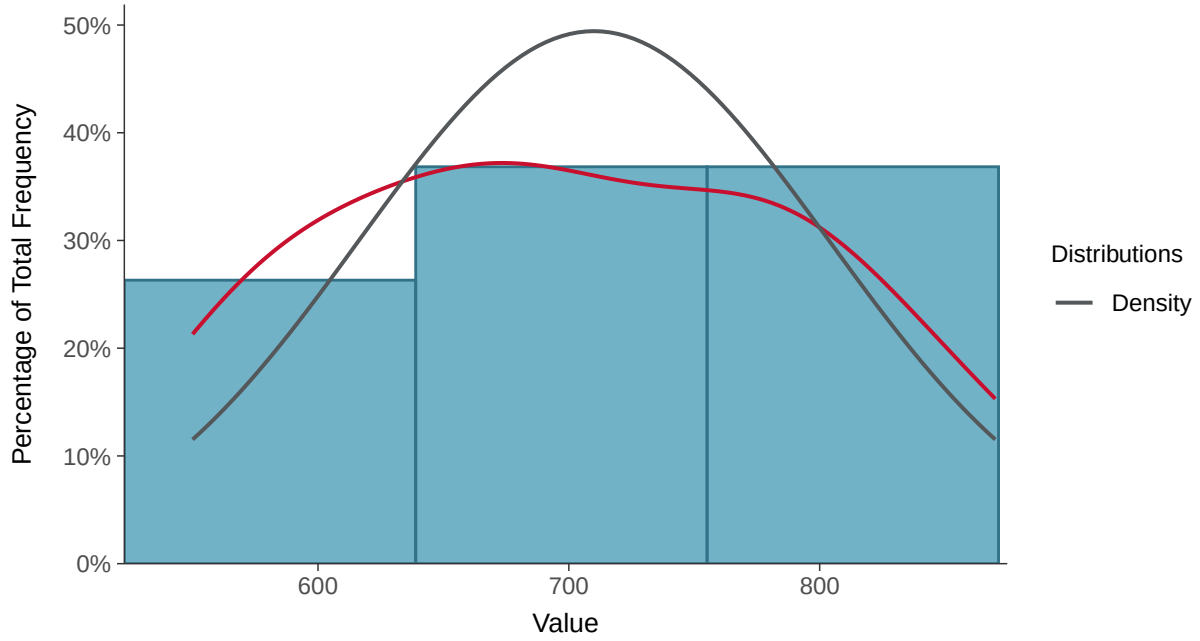
Scatter Plot

Total Dissolved Solids, MW-32 (mg/L)



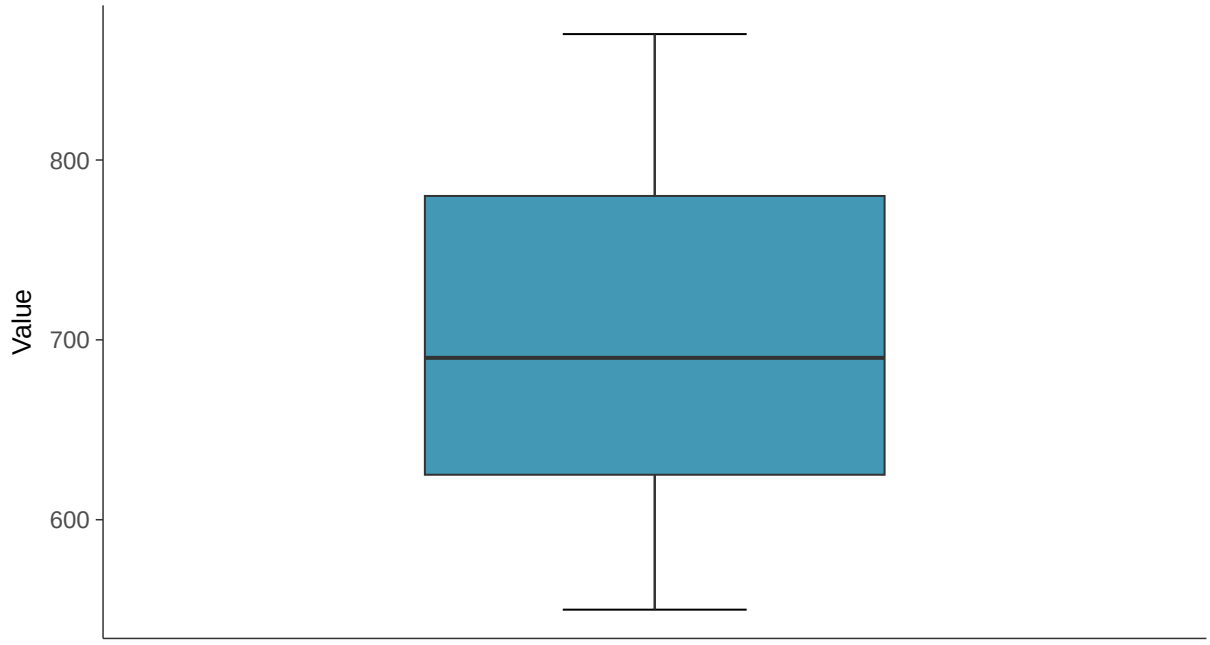
Histogram

Total Dissolved Solids, MW-32 (mg/L)



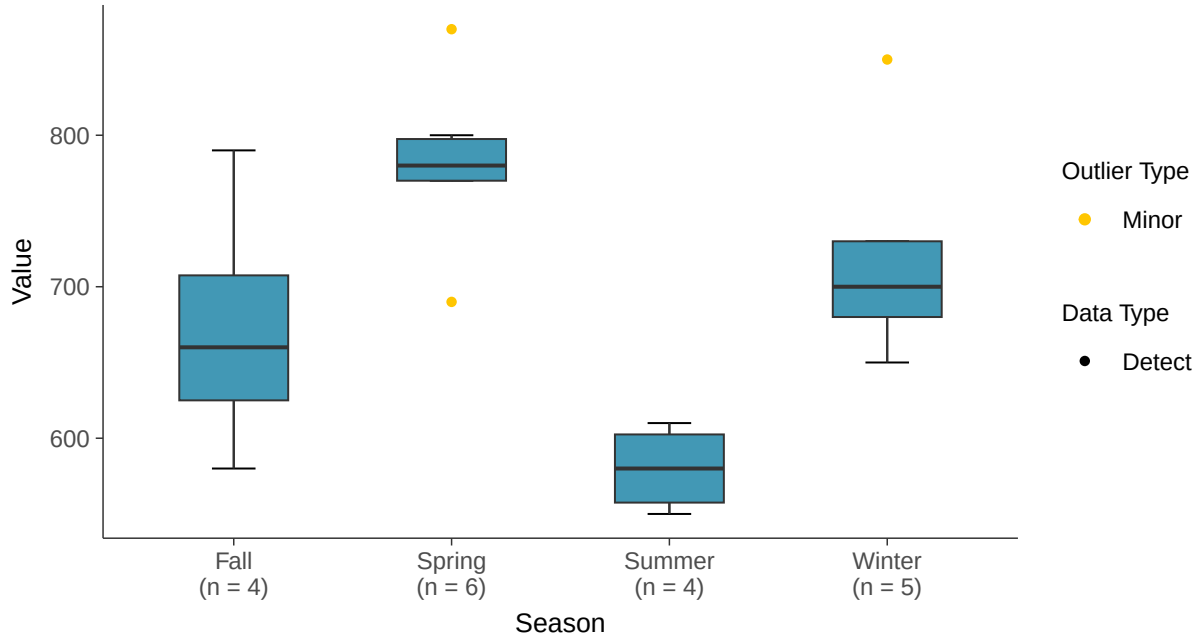
Boxplot

Total Dissolved Solids, MW-32 (mg/L)



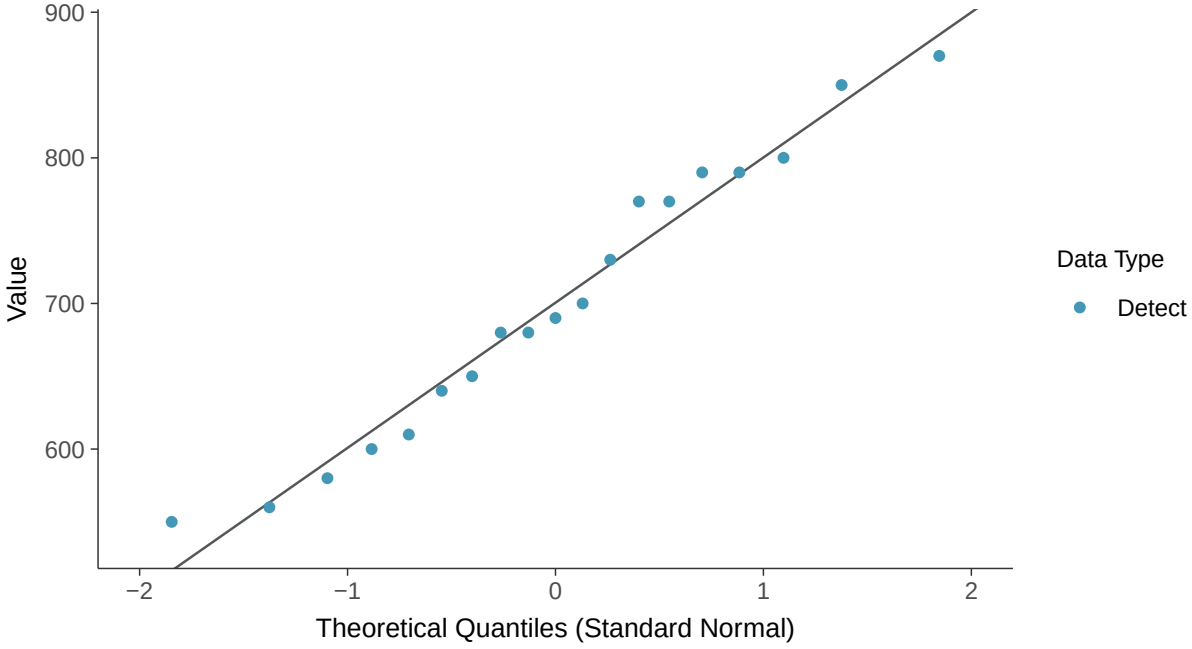
Boxplot by Season

Total Dissolved Solids, MW-32 (mg/L)



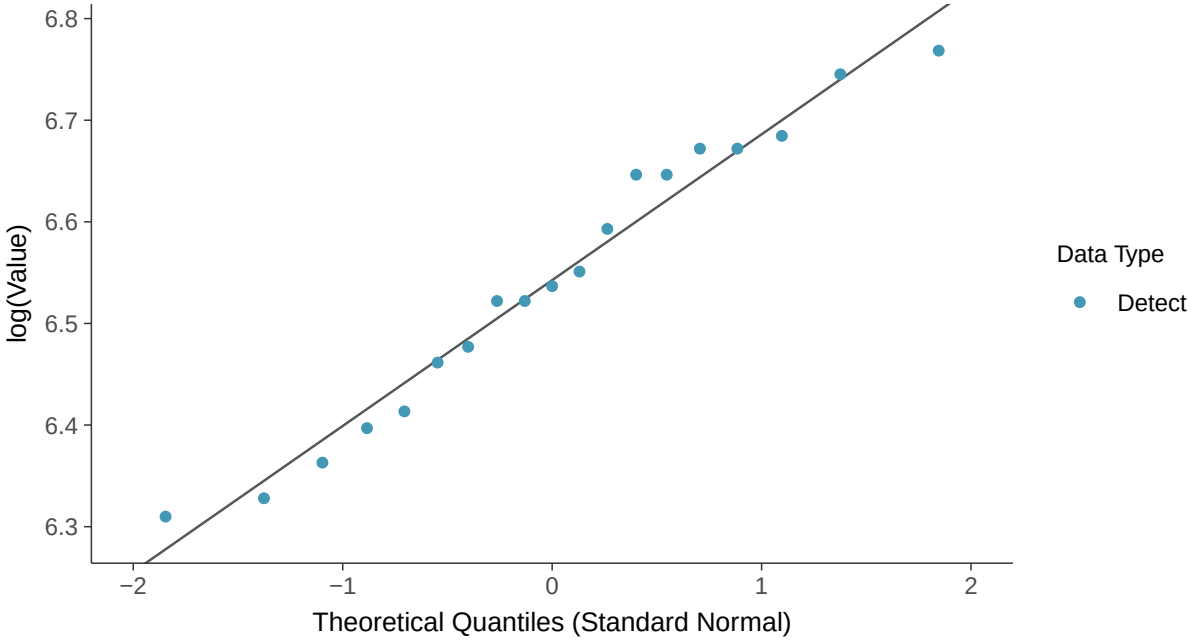
Normal Q-Q plot

Total Dissolved Solids, MW-32 (mg/L)



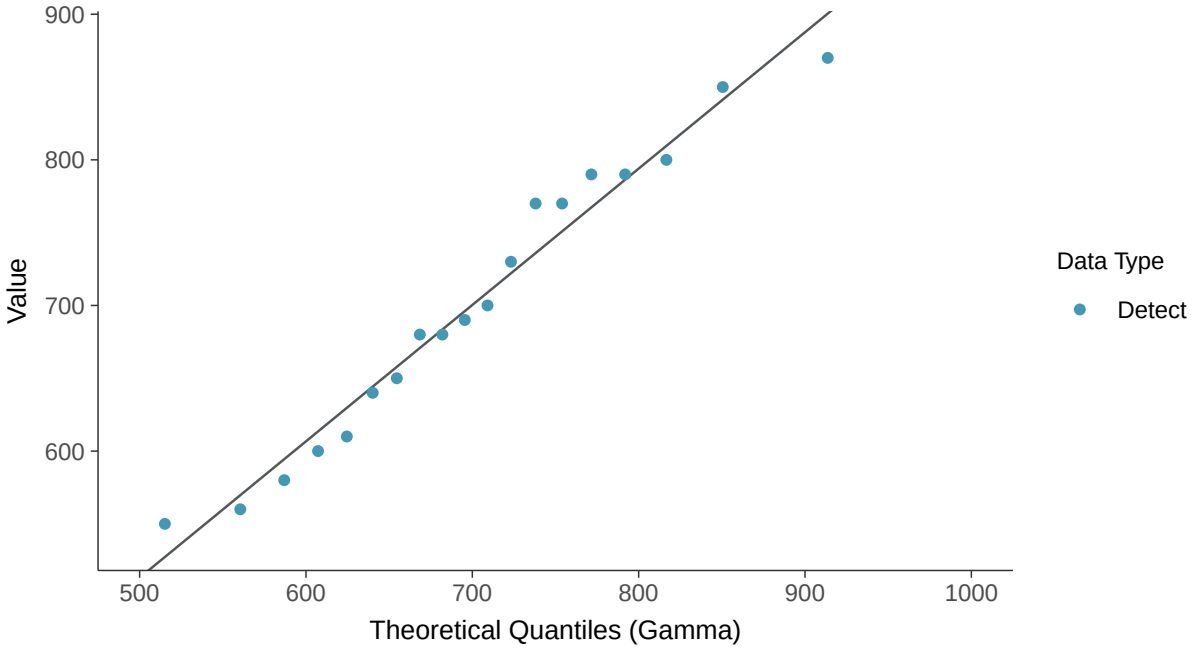
Lognormal Q-Q plot

Total Dissolved Solids, MW-32 (mg/L)



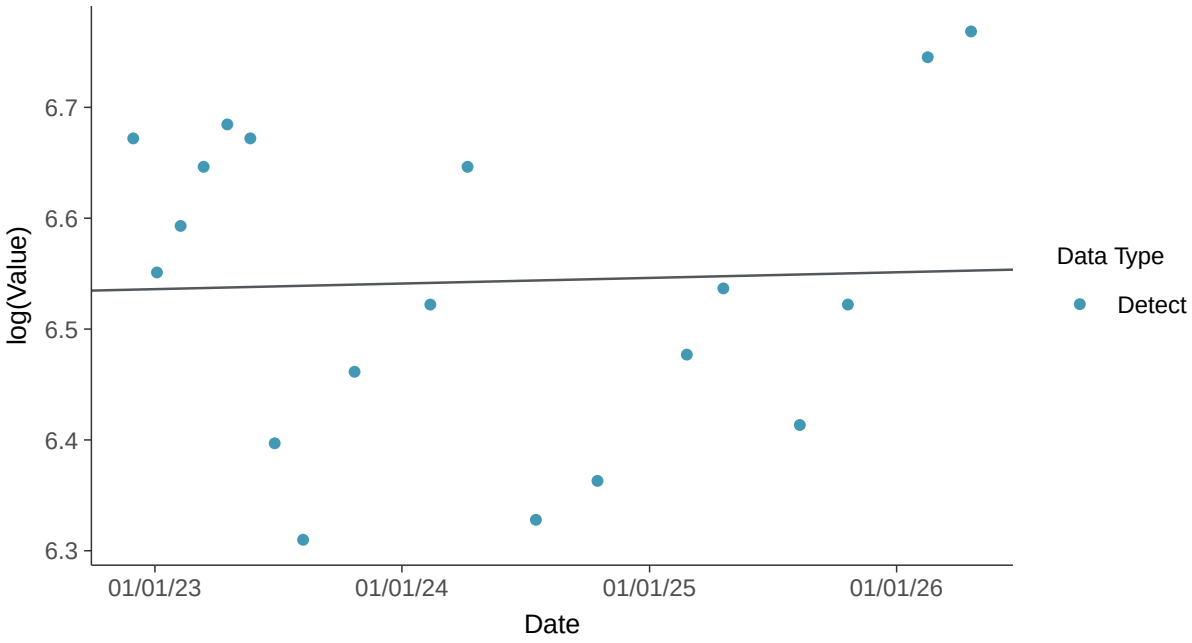
Gamma Q-Q plot

Total Dissolved Solids, MW-32 (mg/L)



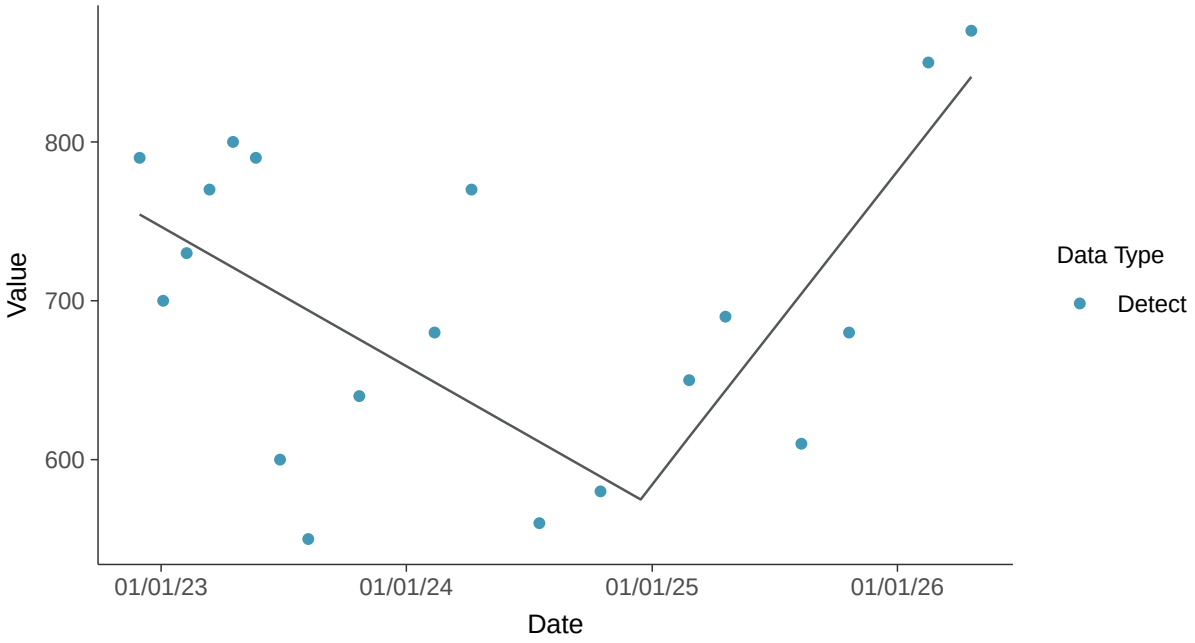
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-32 (mg/L)



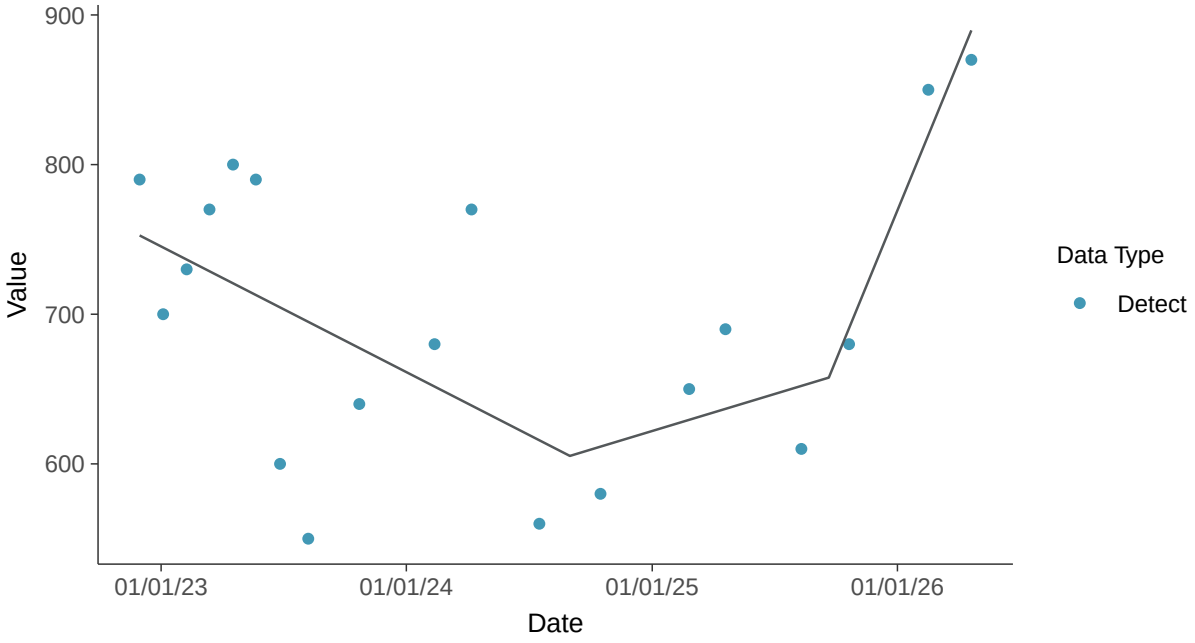
Trend Regression: Piecewise Linear-Linear

Total Dissolved Solids, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Total Dissolved Solids, MW-32 (mg/L)

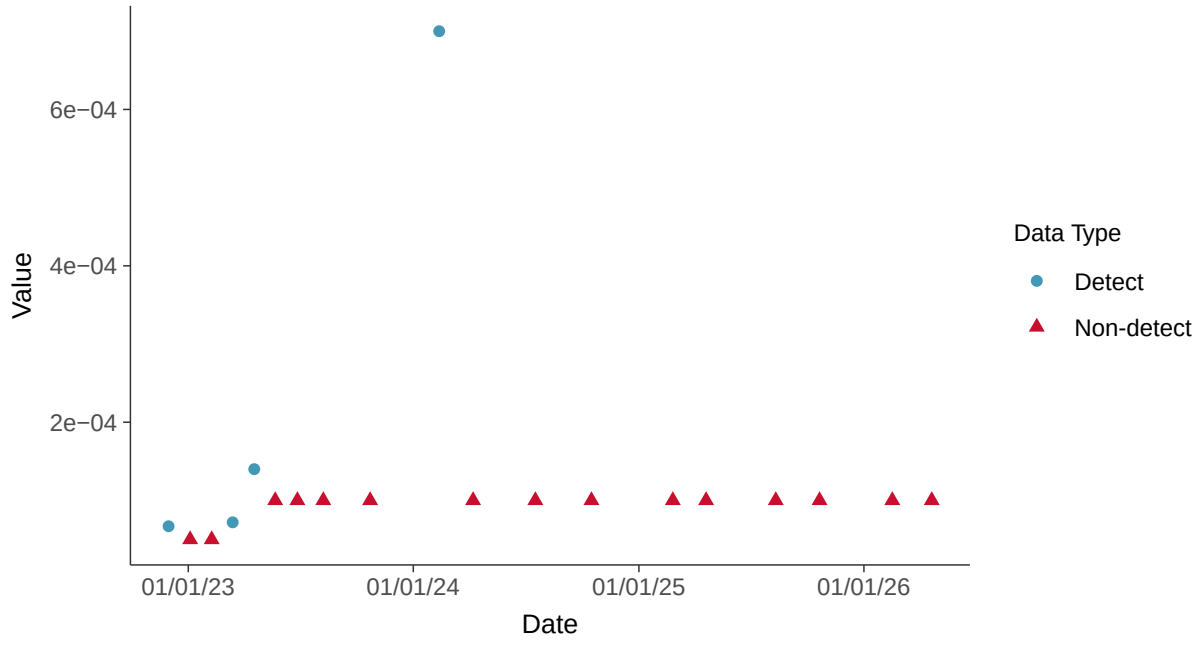


Appendix IV: Antimony, MW-32

ID: 42_1_4_101

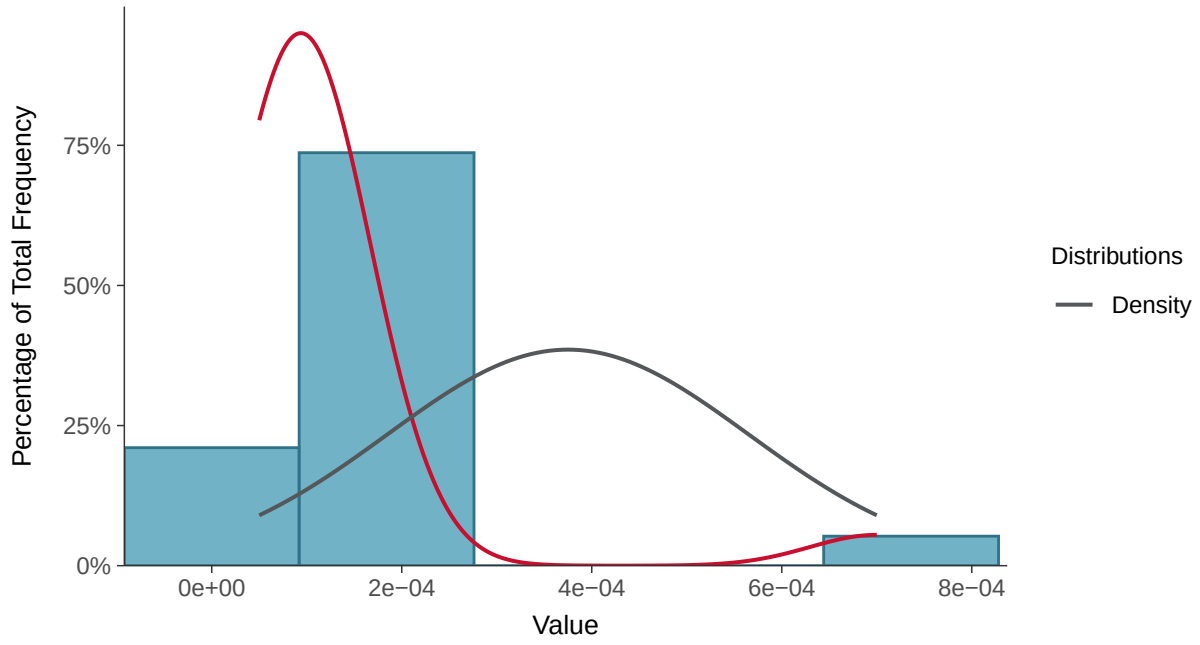
Scatter Plot

Antimony, MW-32 (mg/L)



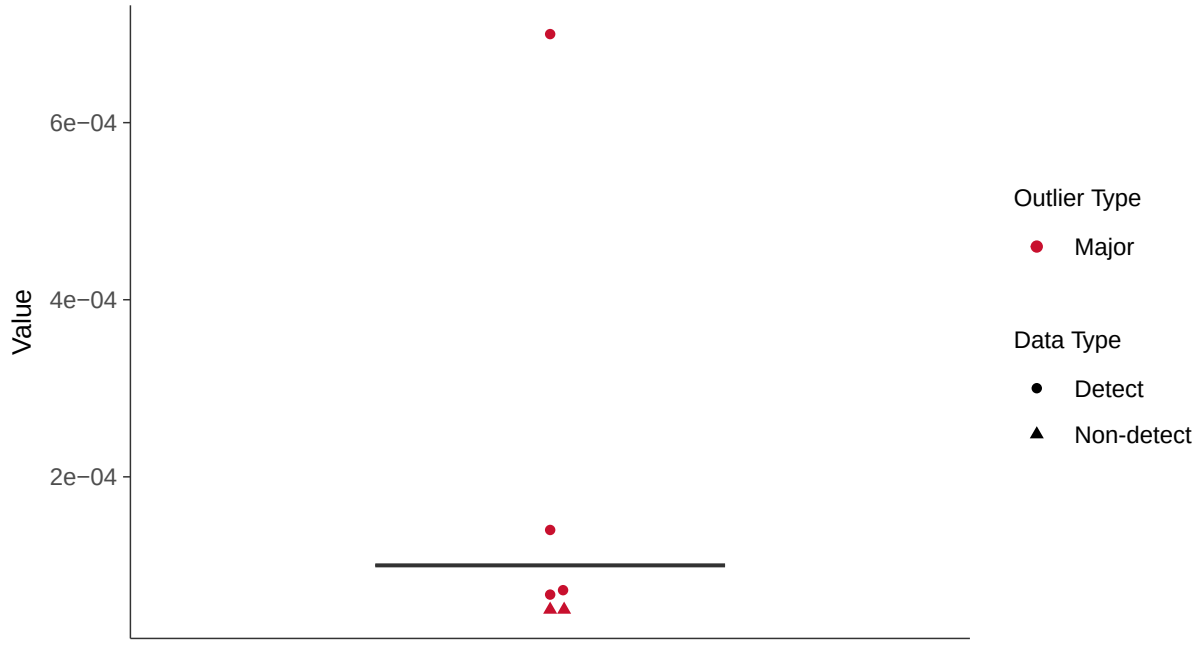
Histogram

Antimony, MW-32 (mg/L)



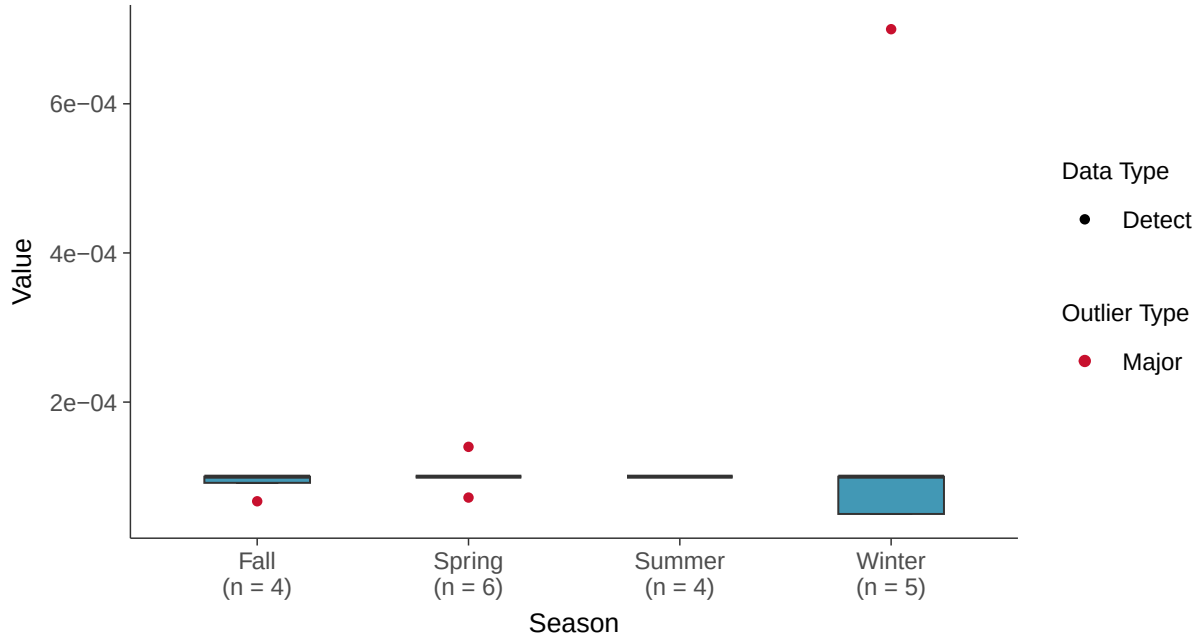
Boxplot

Antimony, MW-32 (mg/L)



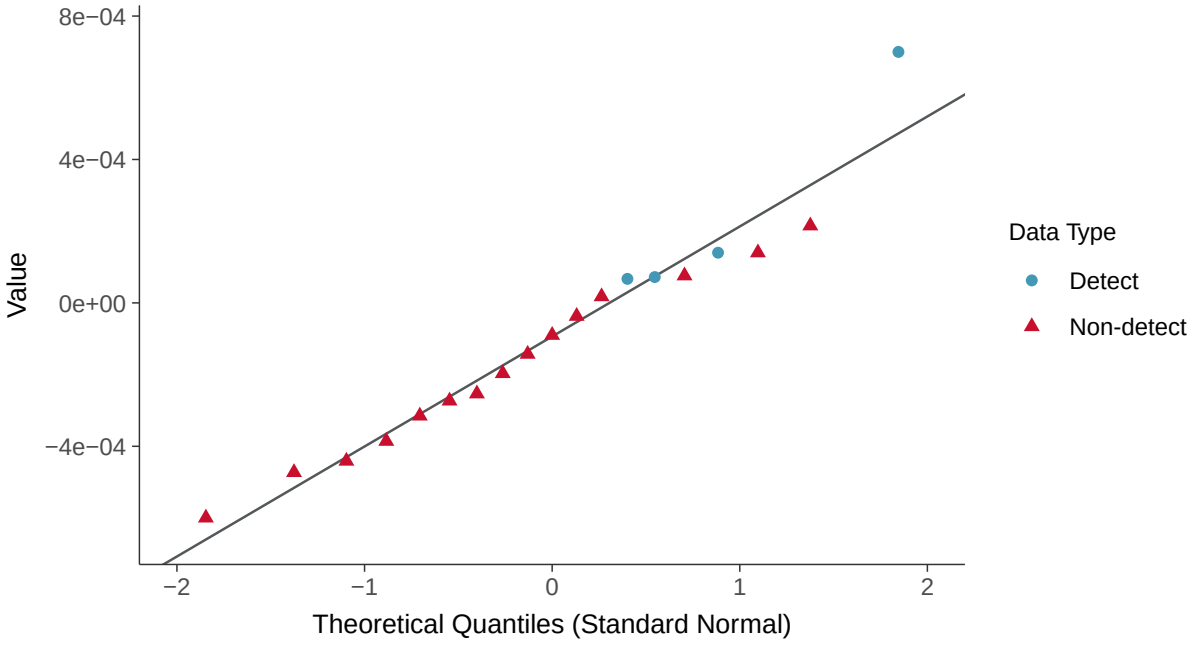
Boxplot by Season

Antimony, MW-32 (mg/L)



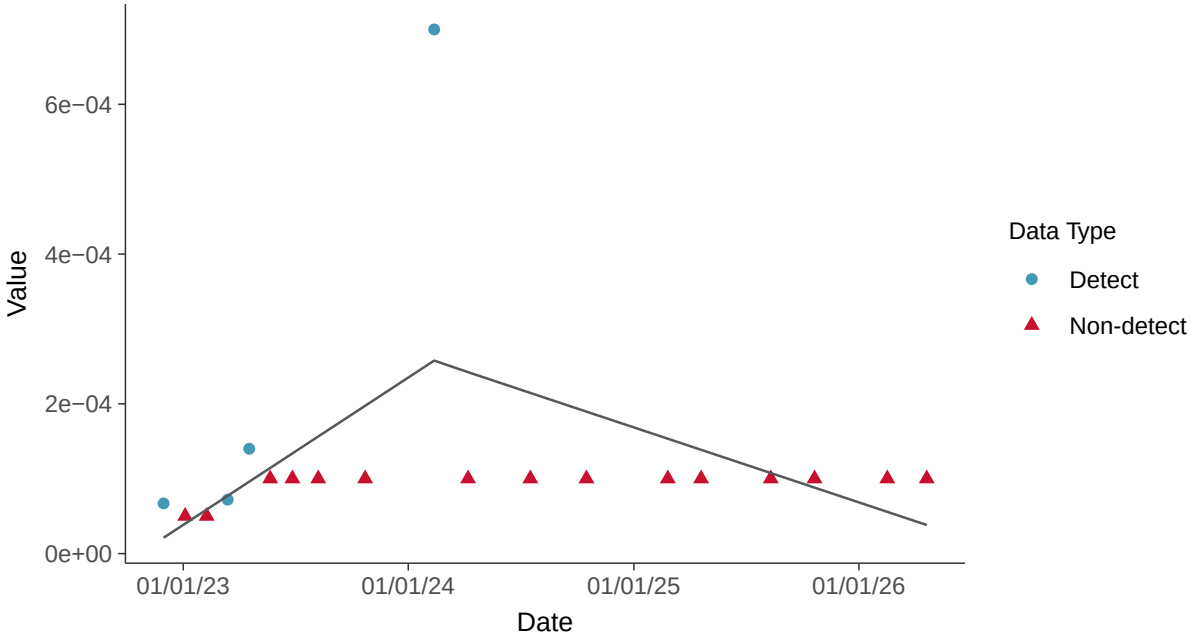
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-32 (mg/L)



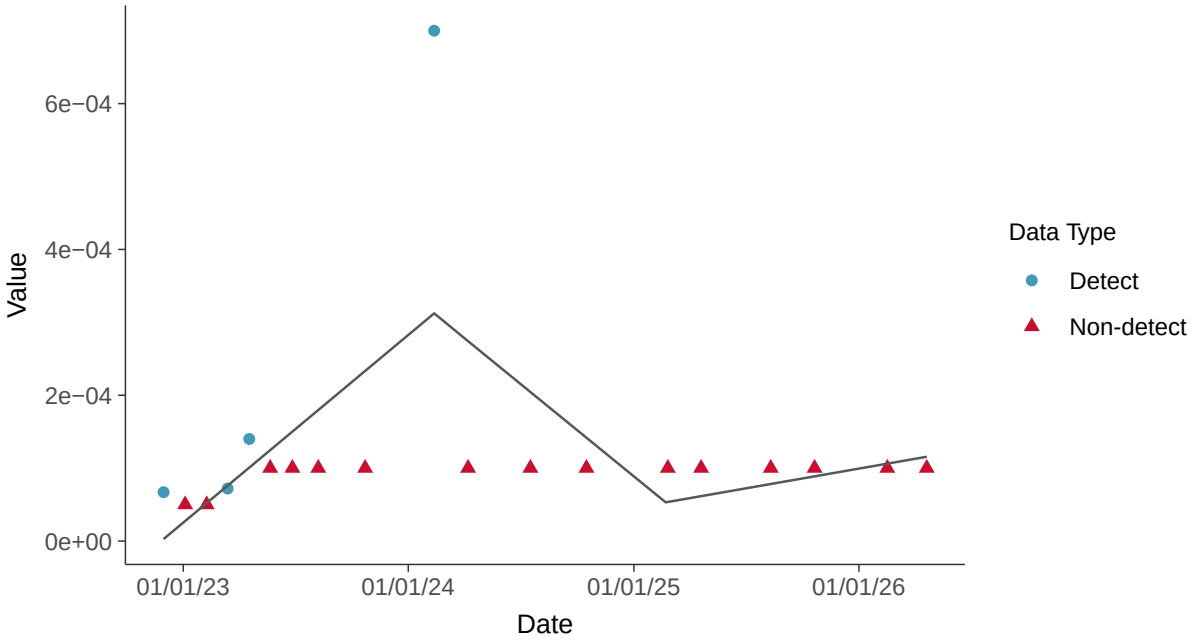
Trend Regression: Piecewise Linear-Linear

Antimony, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-32 (mg/L)

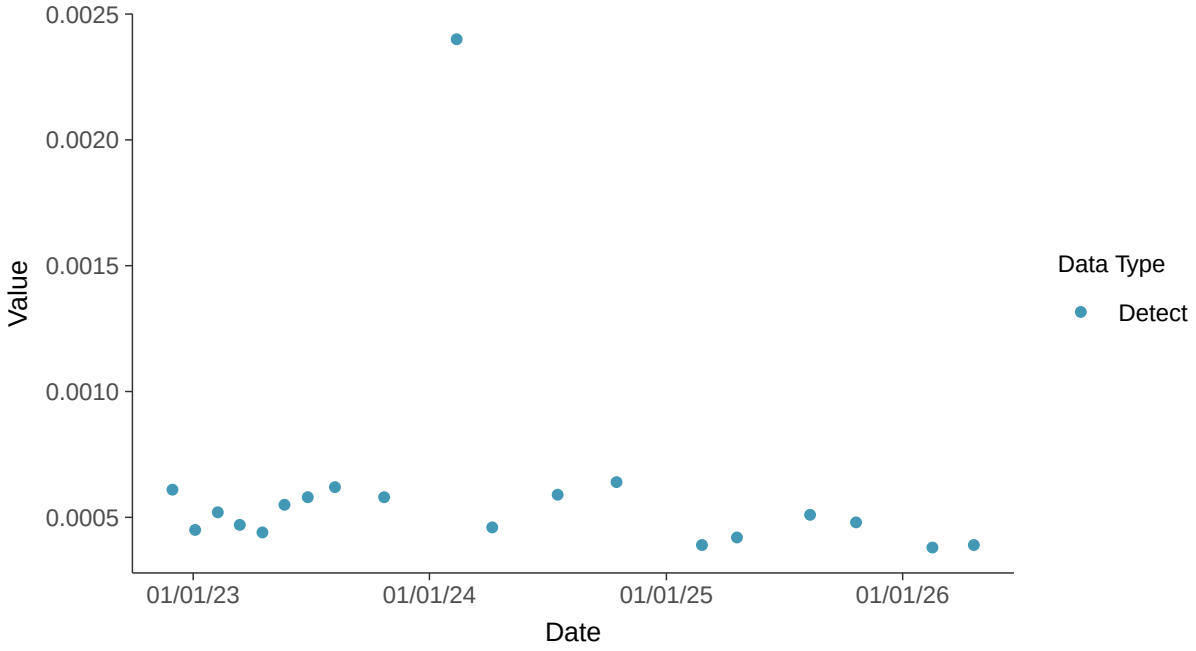


Appendix IV: Arsenic, MW-32

ID: 42_1_4_102

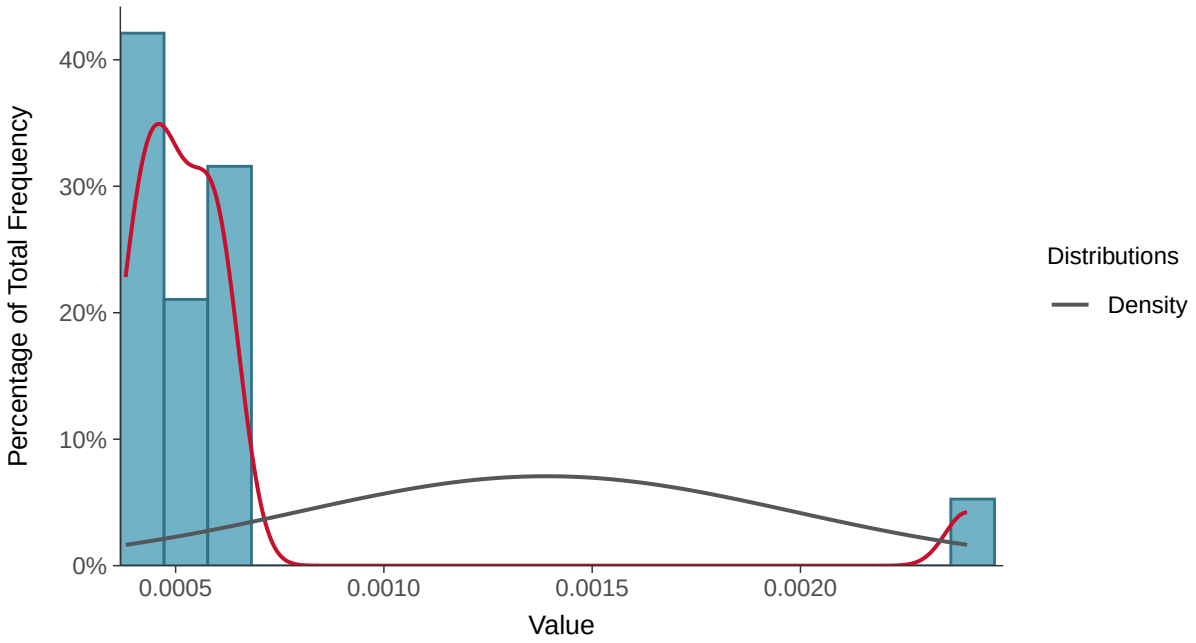
Scatter Plot

Arsenic, MW-32 (mg/L)



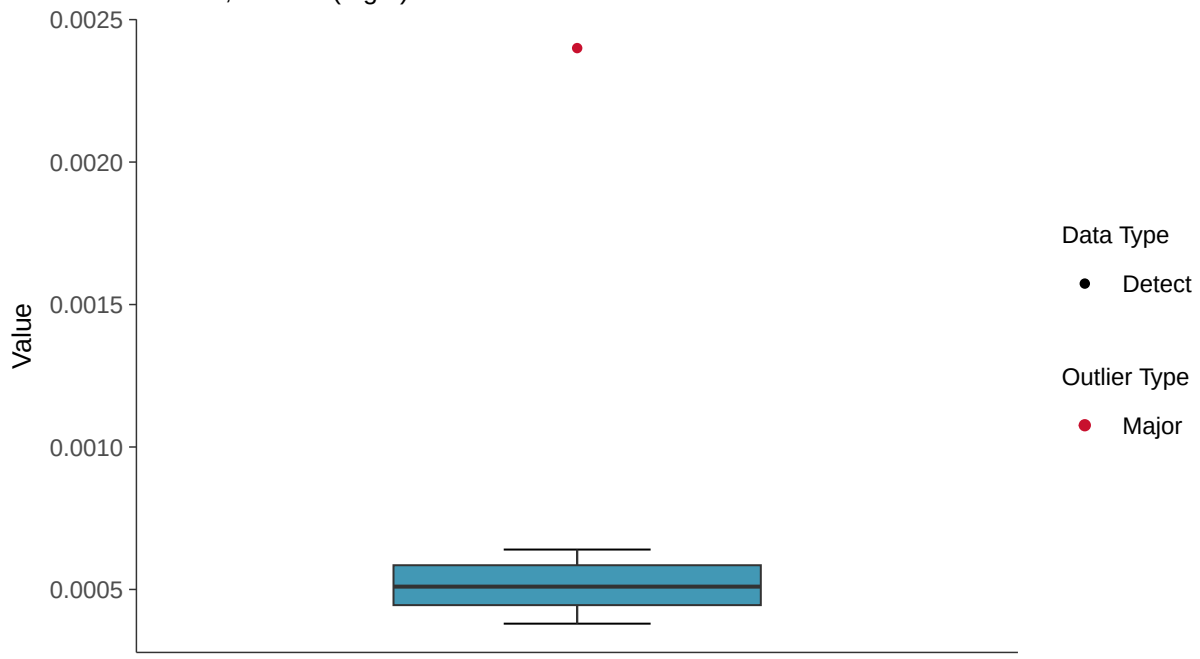
Histogram

Arsenic, MW-32 (mg/L)



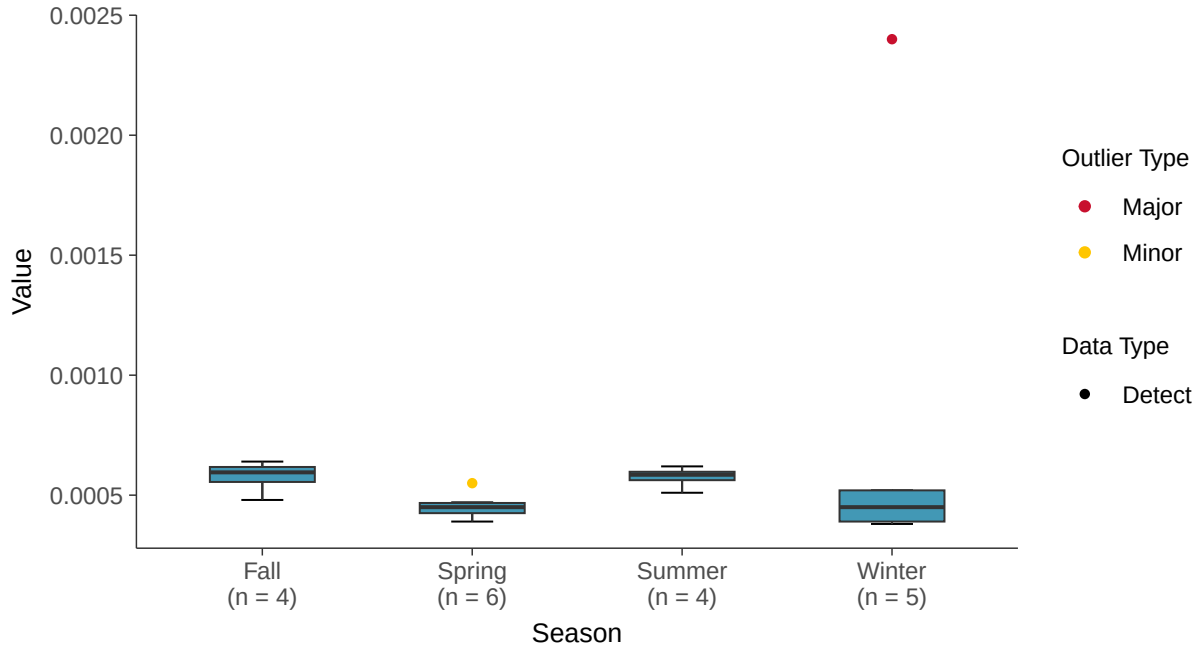
Boxplot

Arsenic, MW-32 (mg/L)



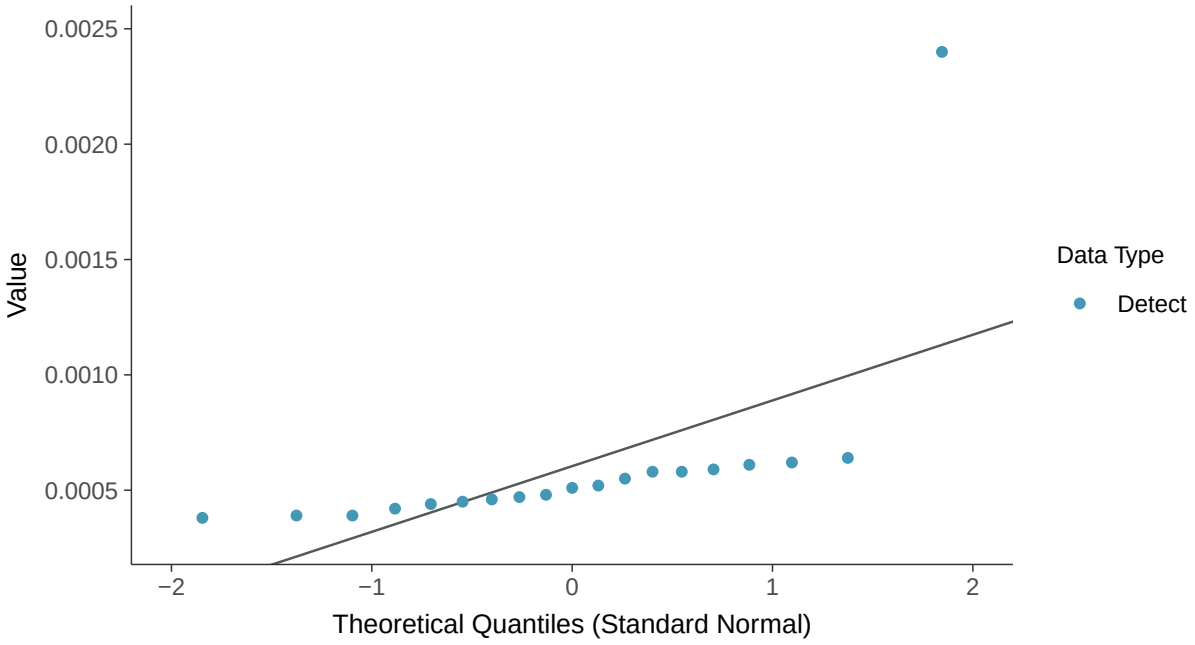
Boxplot by Season

Arsenic, MW-32 (mg/L)



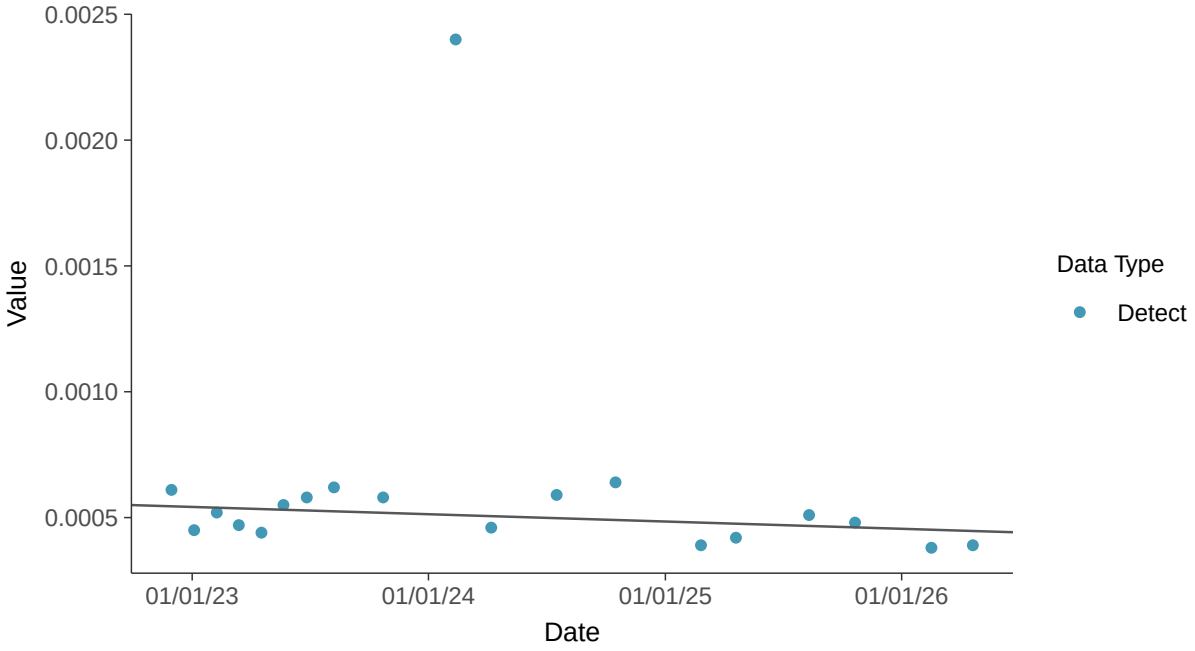
Normal Q-Q plot

Arsenic, MW-32 (mg/L)



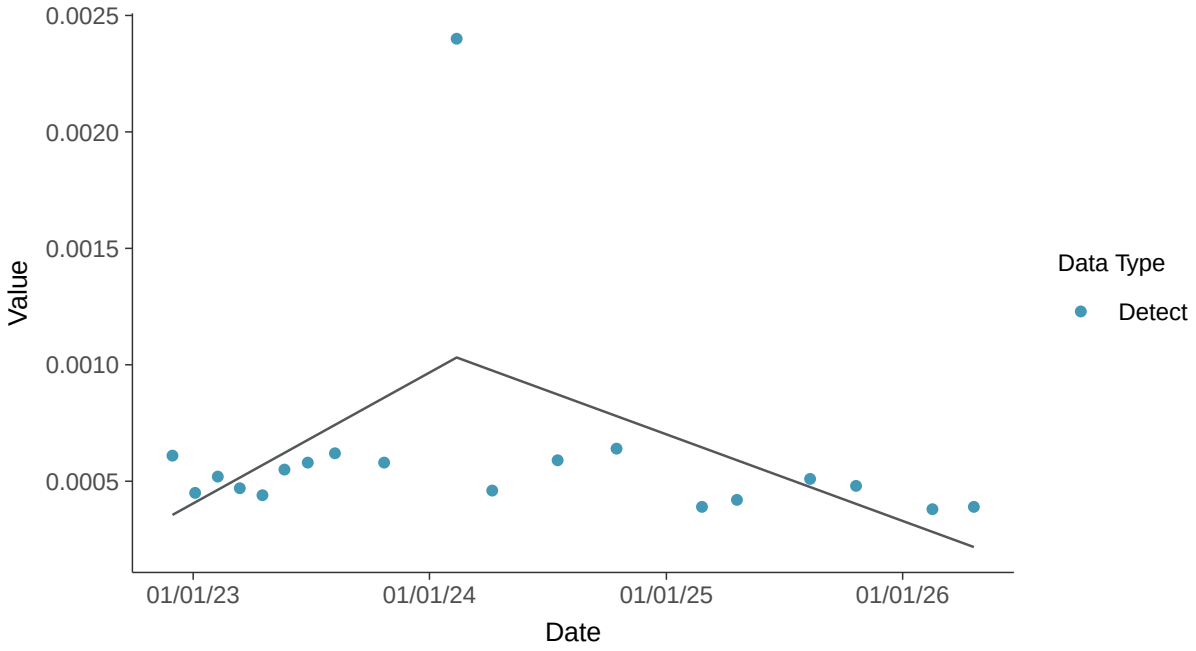
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Arsenic, MW-32 (mg/L)



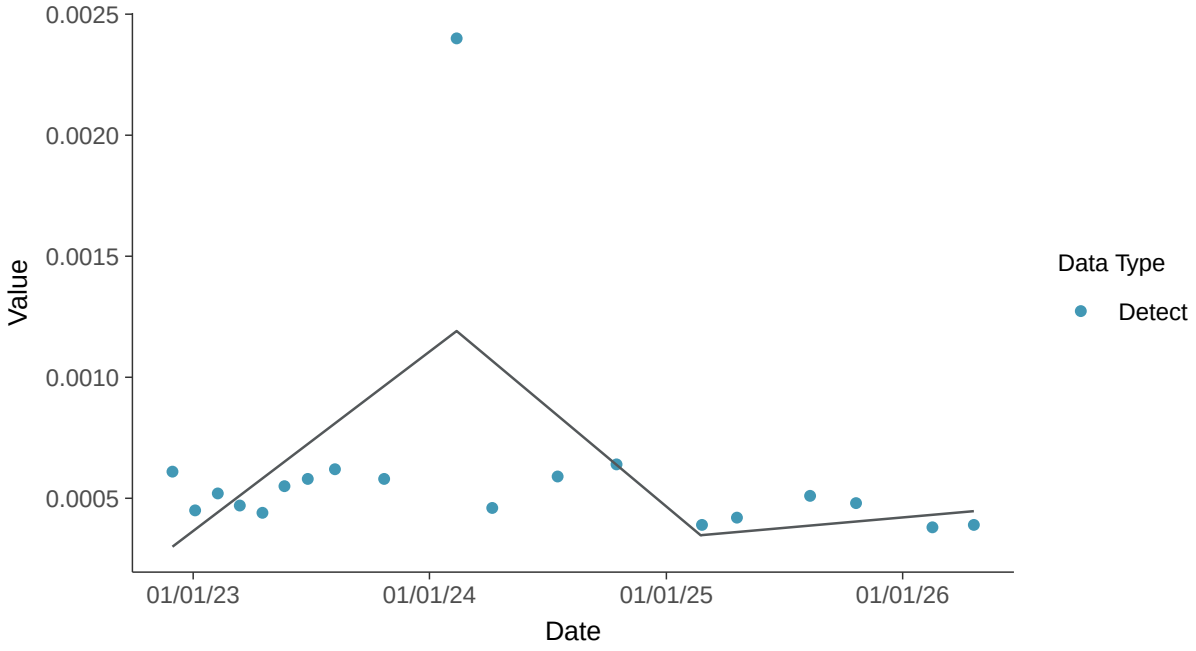
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-32 (mg/L)

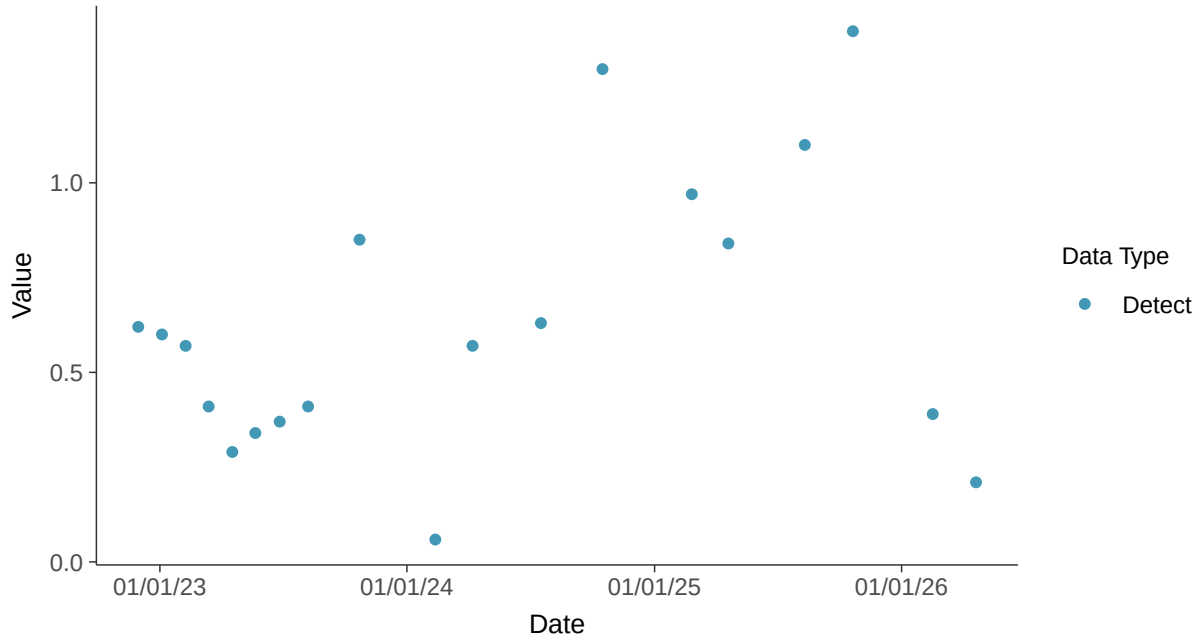


Appendix IV: Barium, MW-32

ID: 42_1_4_103

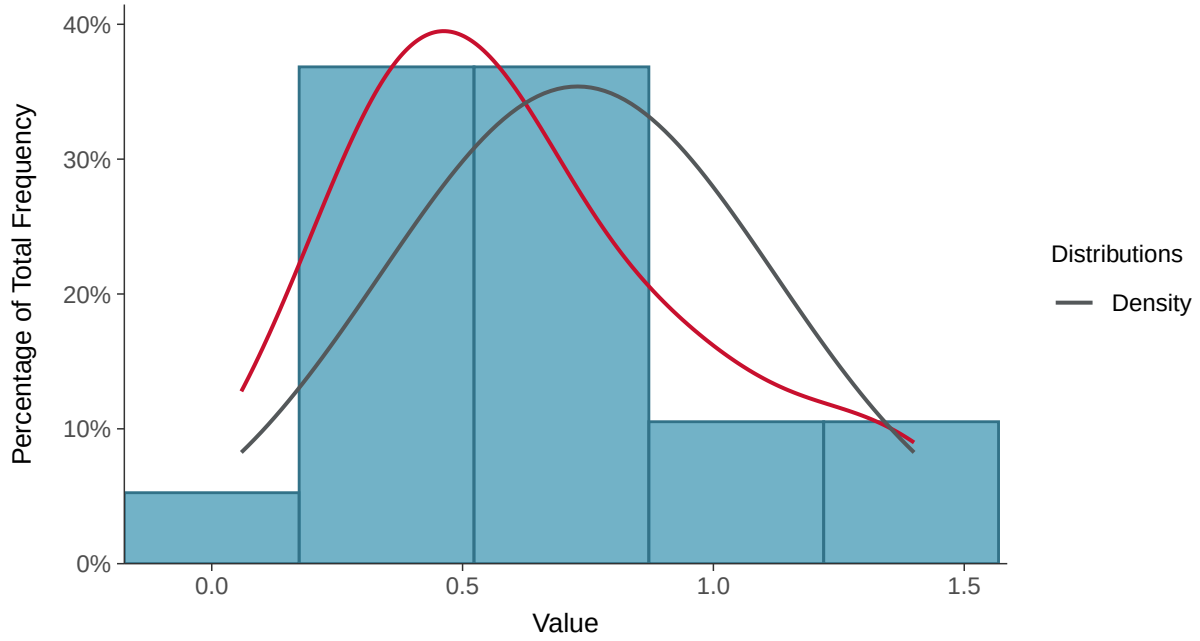
Scatter Plot

Barium, MW-32 (mg/L)



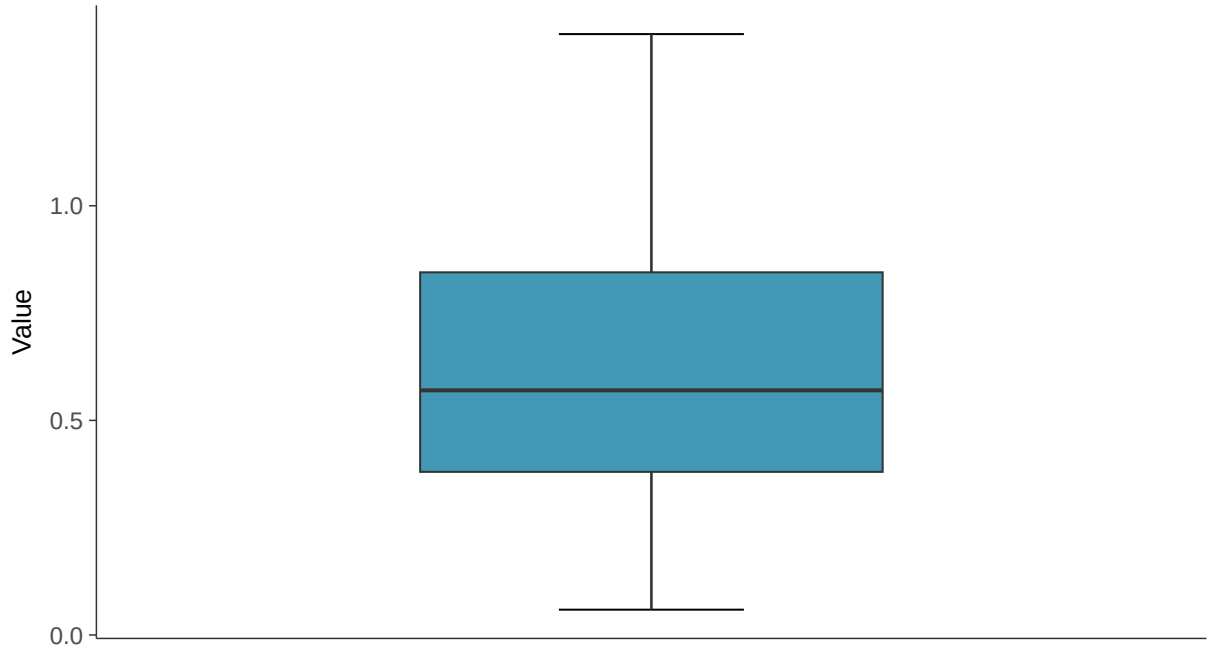
Histogram

Barium, MW-32 (mg/L)



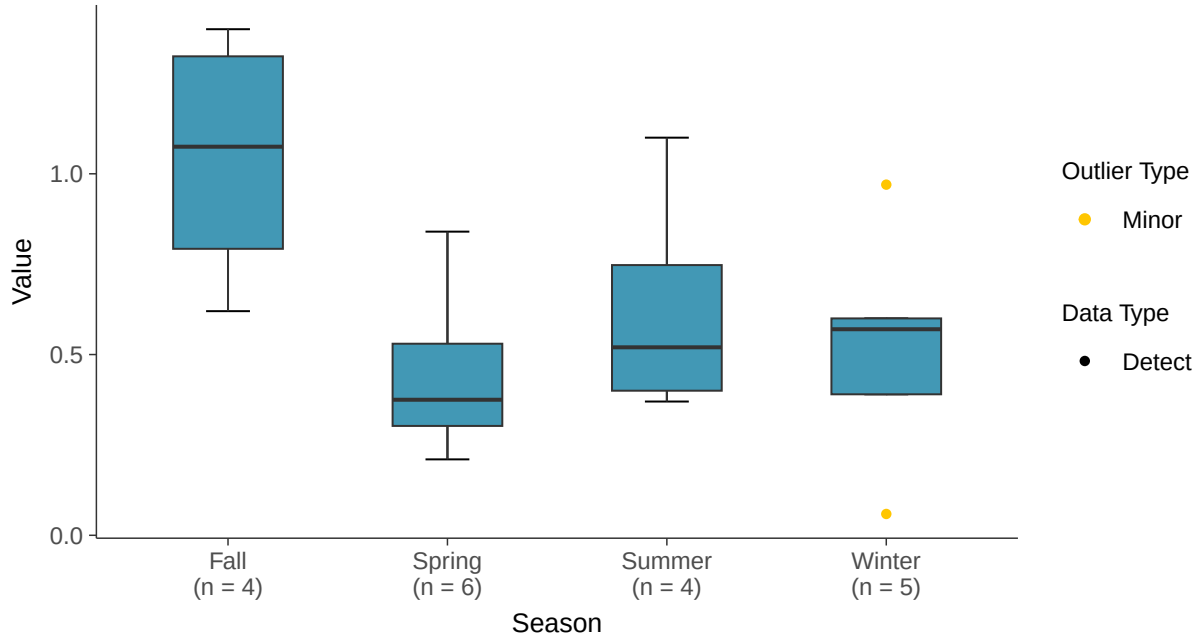
Boxplot

Barium, MW-32 (mg/L)



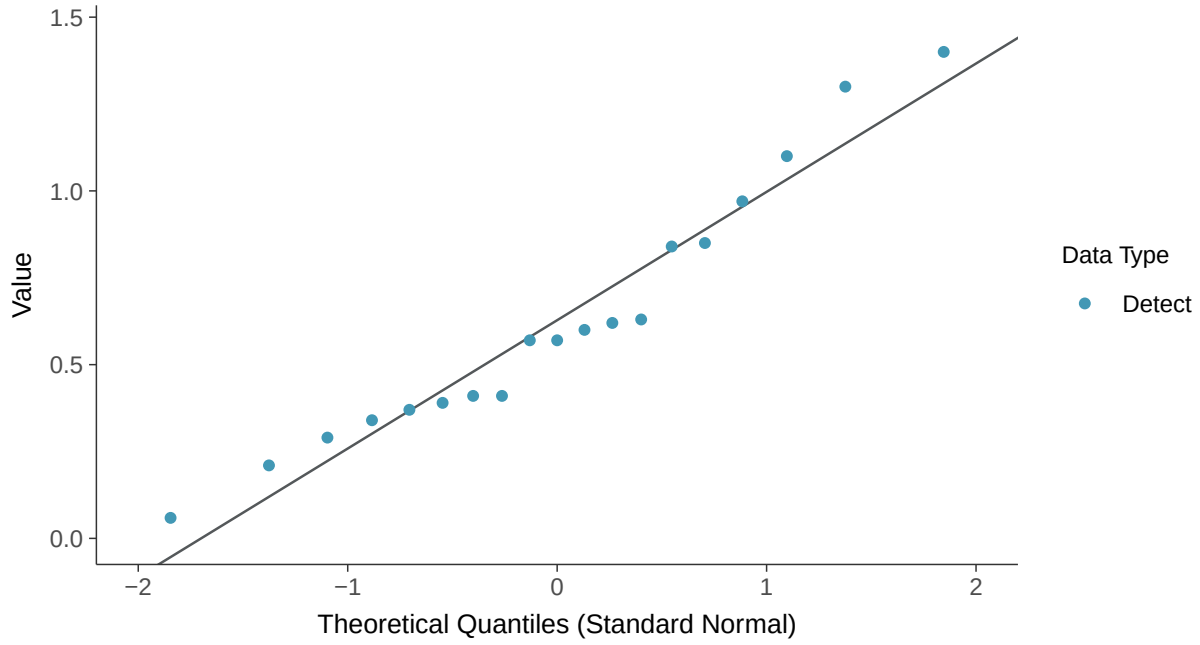
Boxplot by Season

Barium, MW-32 (mg/L)



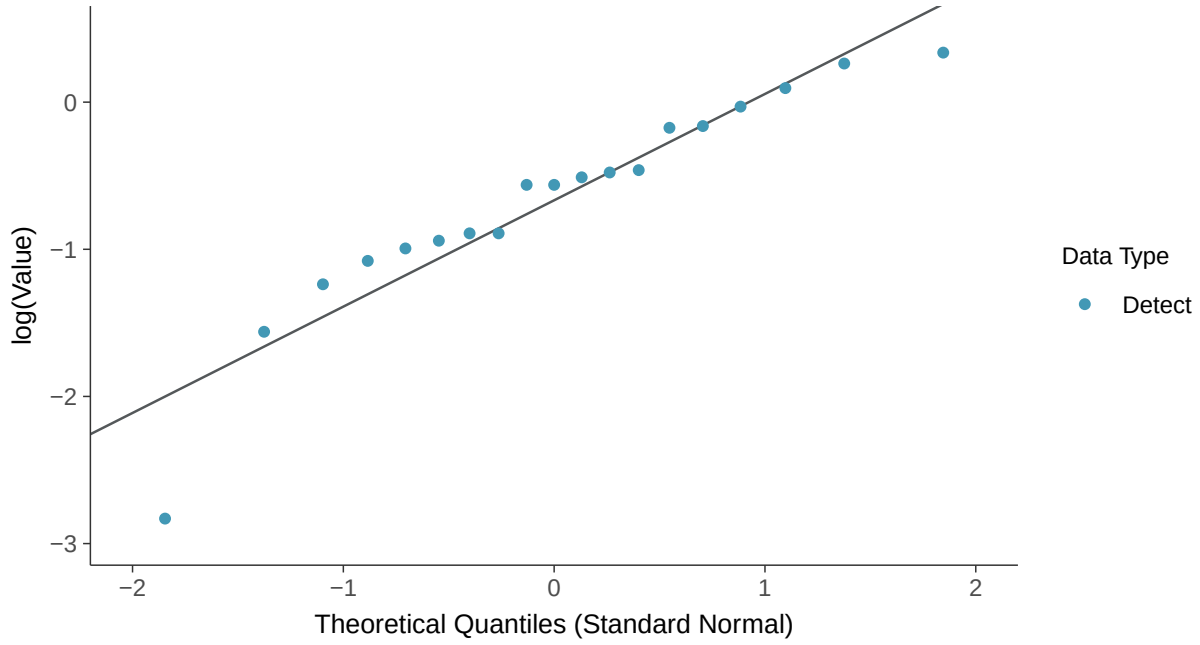
Normal Q-Q plot

Barium, MW-32 (mg/L)



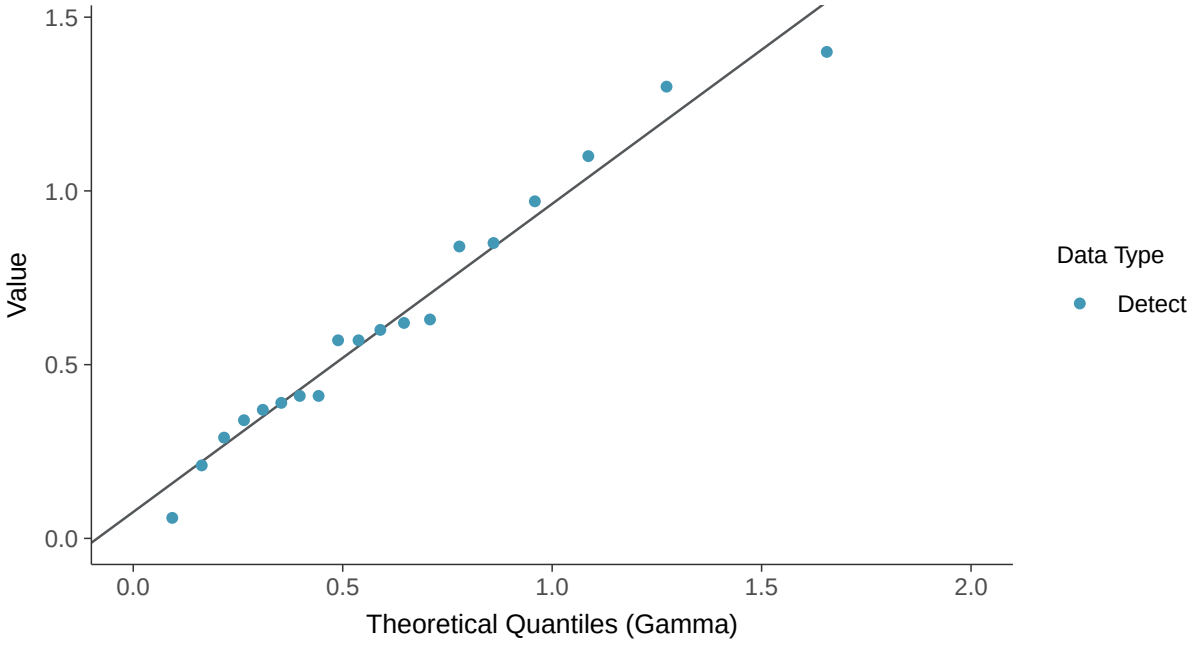
Lognormal Q-Q plot

Barium, MW-32 (mg/L)



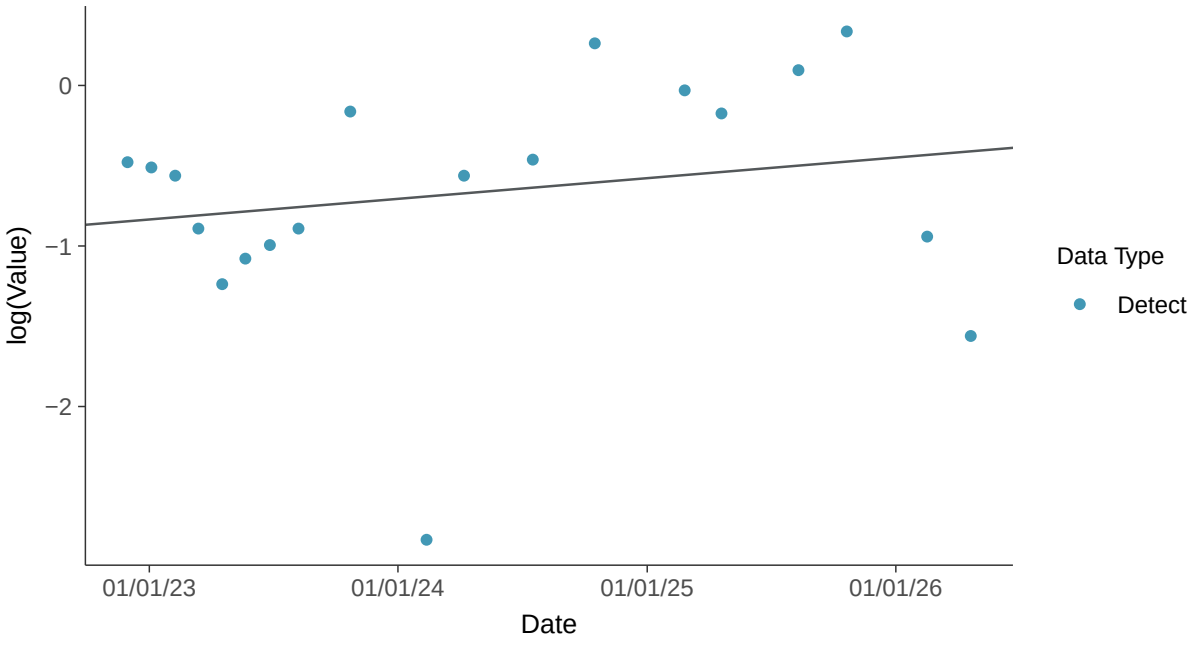
Gamma Q-Q plot

Barium, MW-32 (mg/L)



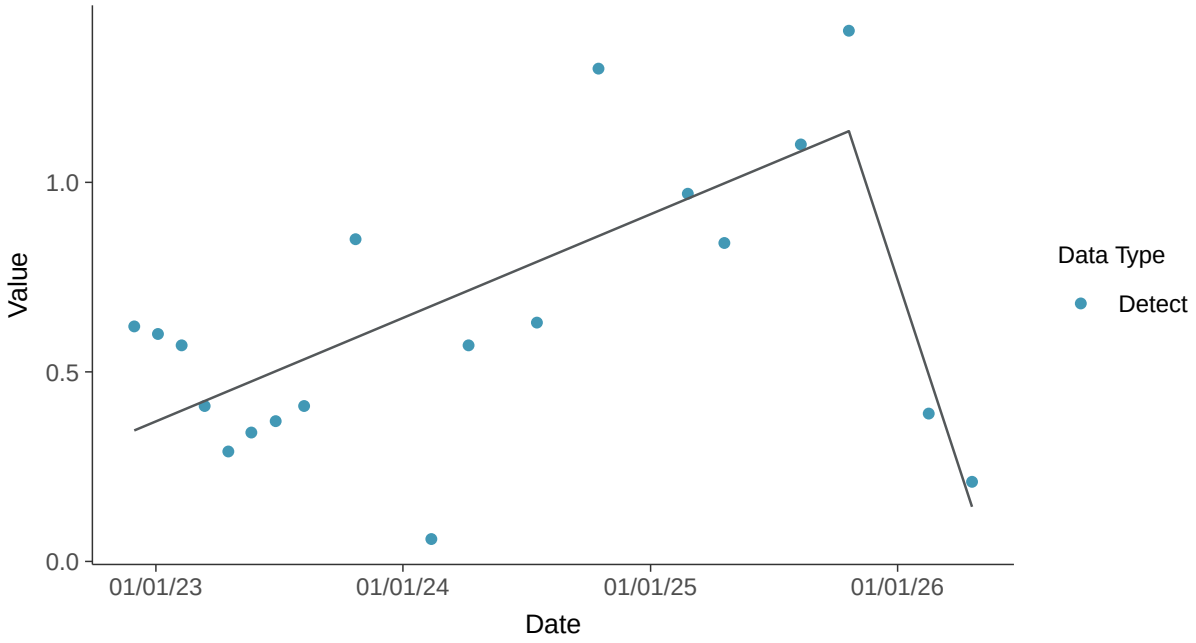
Trend Regression: Lognormal MLE

Barium, MW-32 (mg/L)



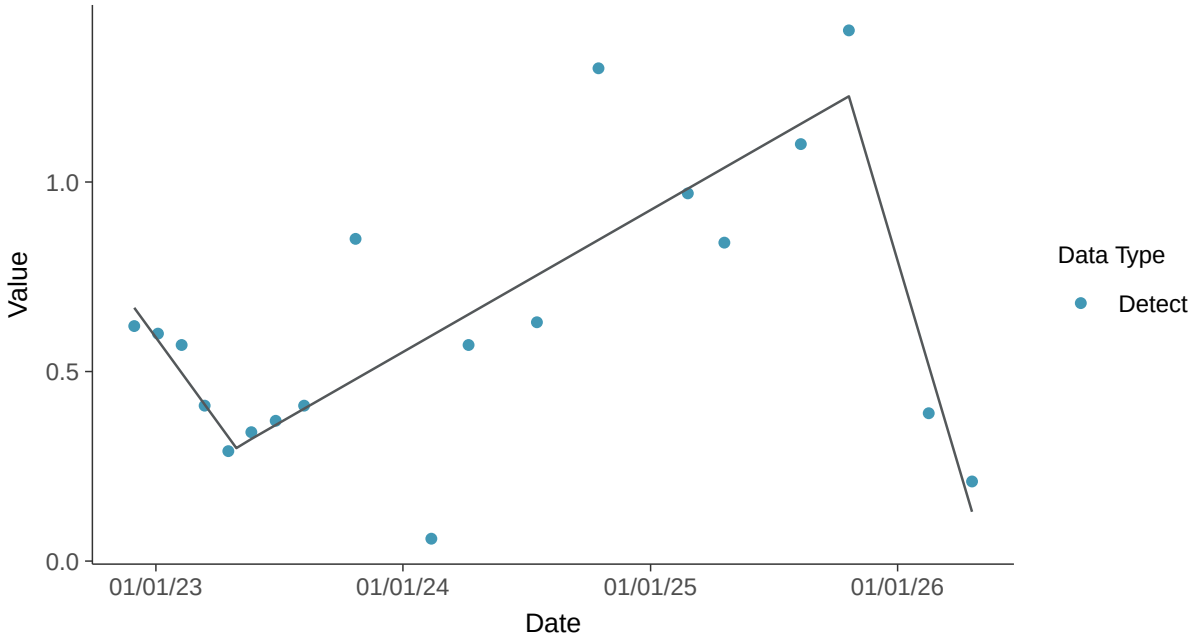
Trend Regression: Piecewise Linear-Linear

Barium, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-32 (mg/L)

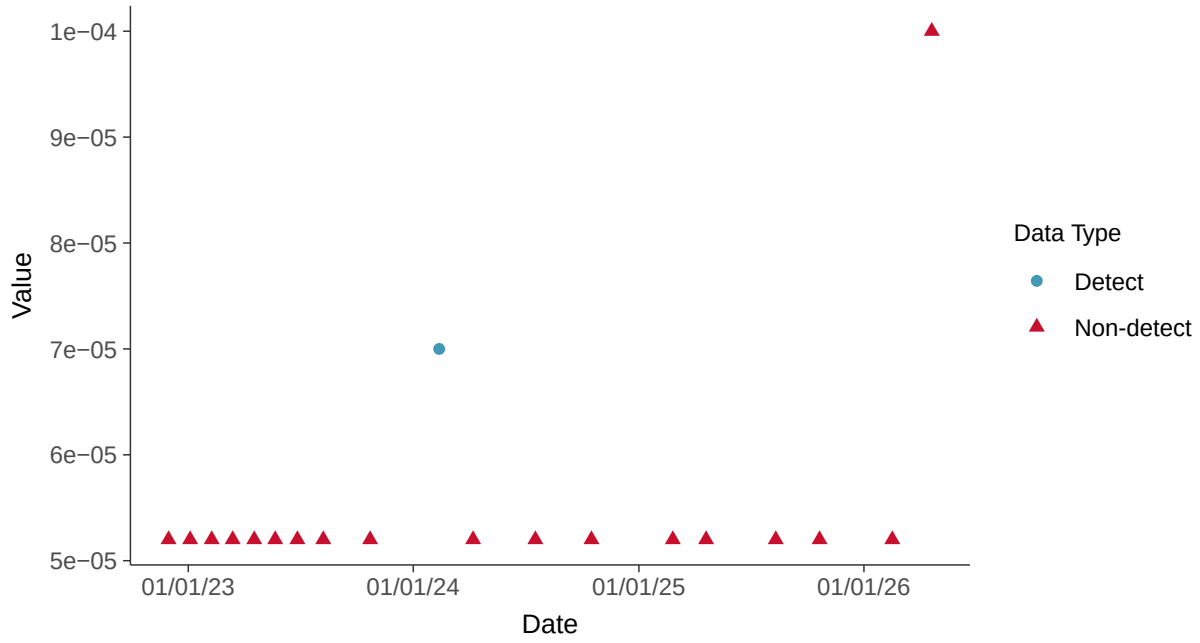


Appendix IV: Beryllium, MW-32

ID: 42_1_4_104

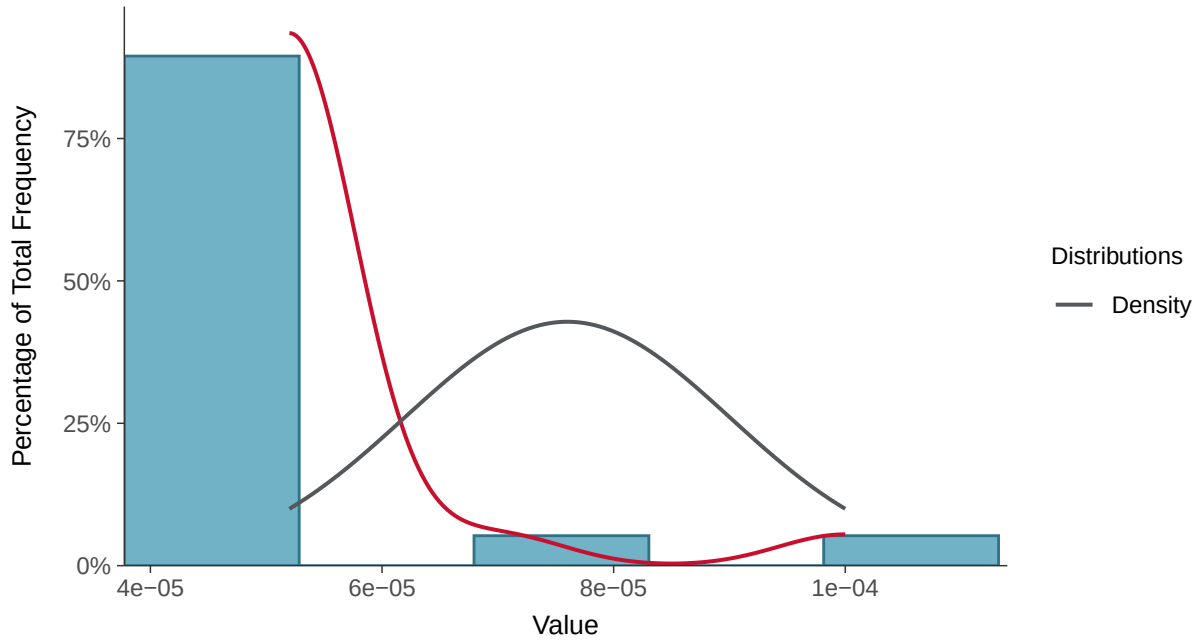
Scatter Plot

Beryllium, MW-32 (mg/L)



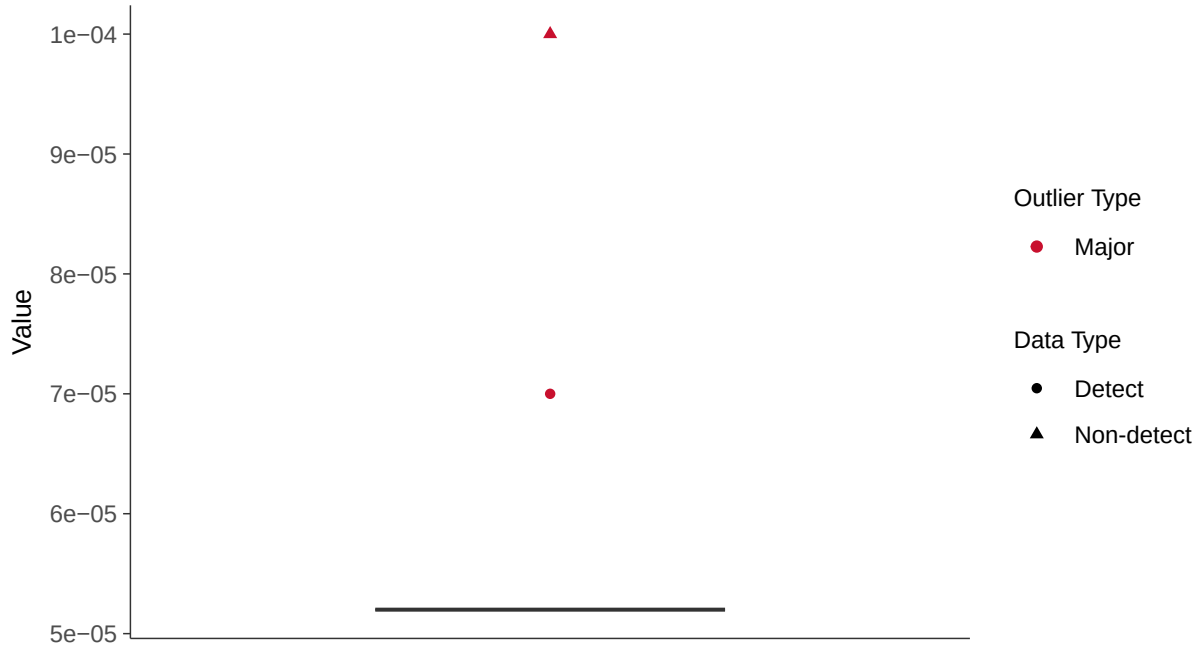
Histogram

Beryllium, MW-32 (mg/L)



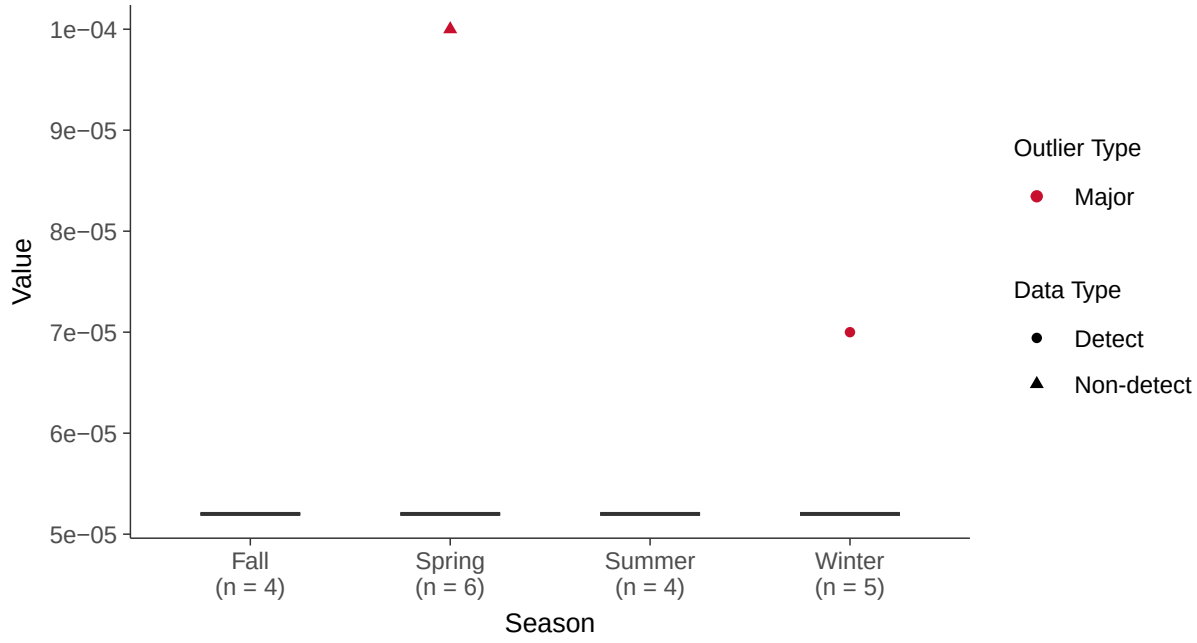
Boxplot

Beryllium, MW-32 (mg/L)



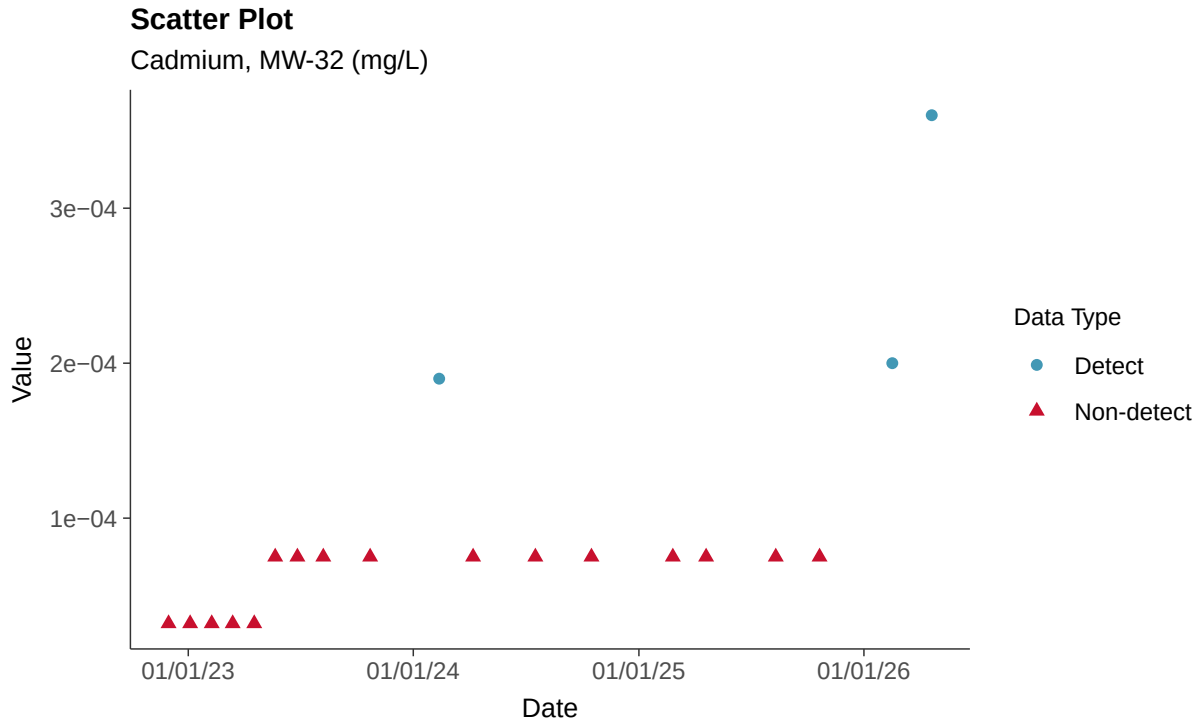
Boxplot by Season

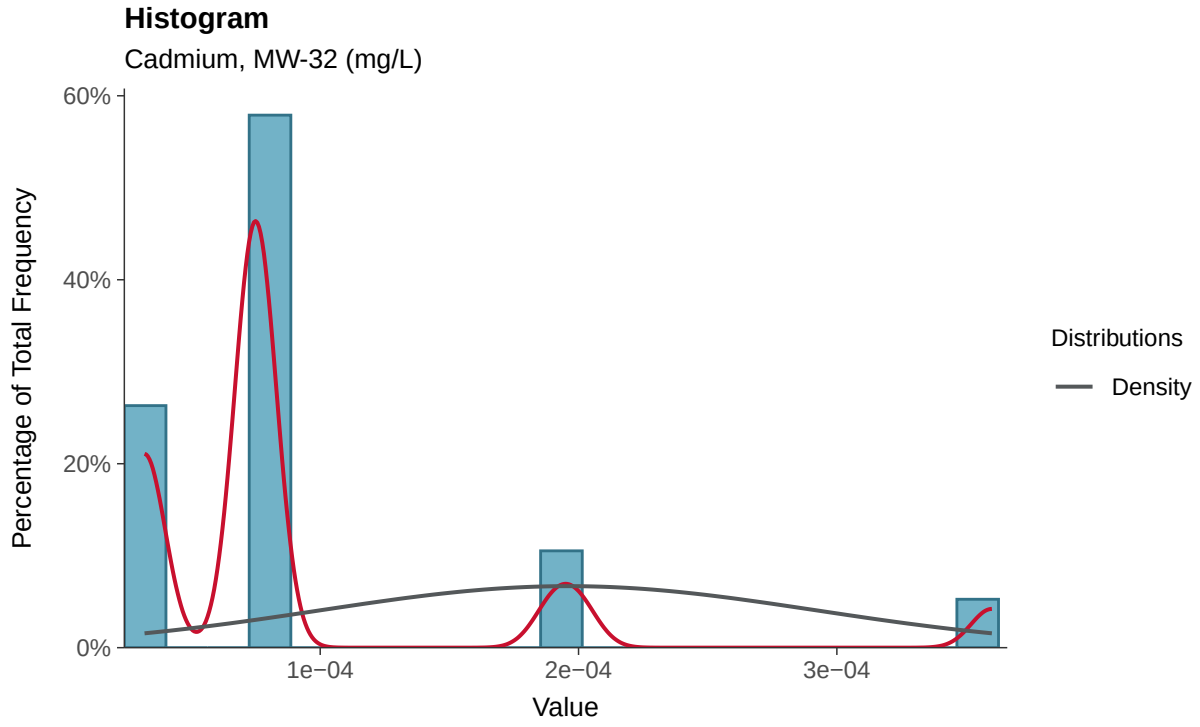
Beryllium, MW-32 (mg/L)



Appendix IV: Cadmium, MW-32

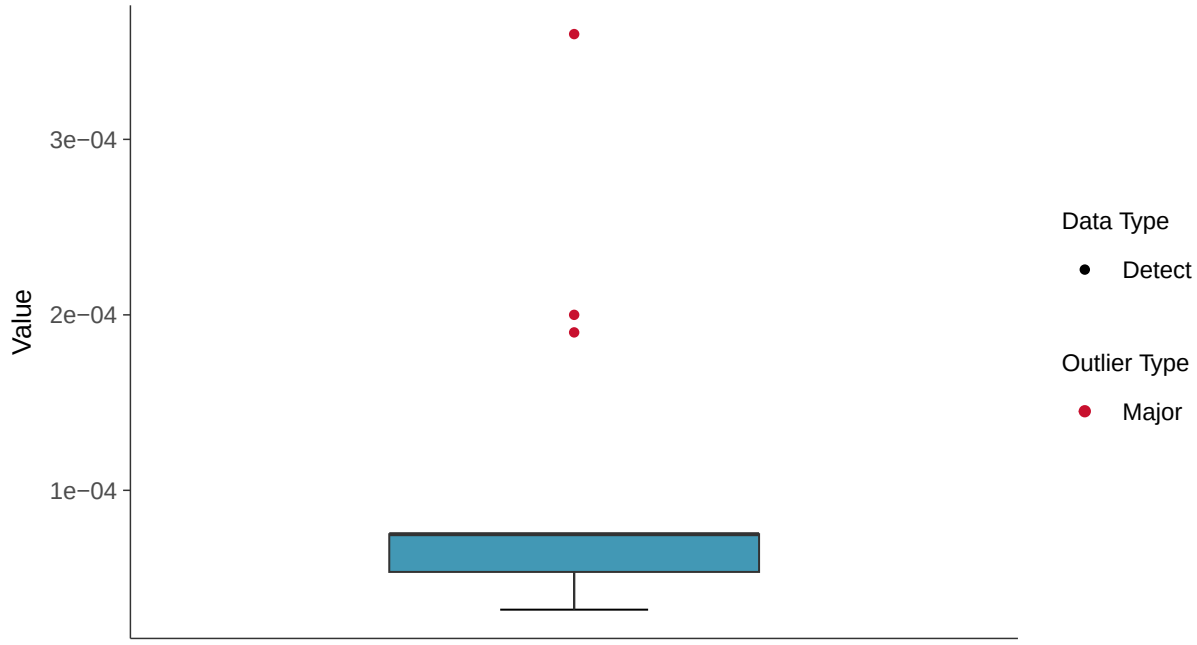
ID: 42_1_4_106





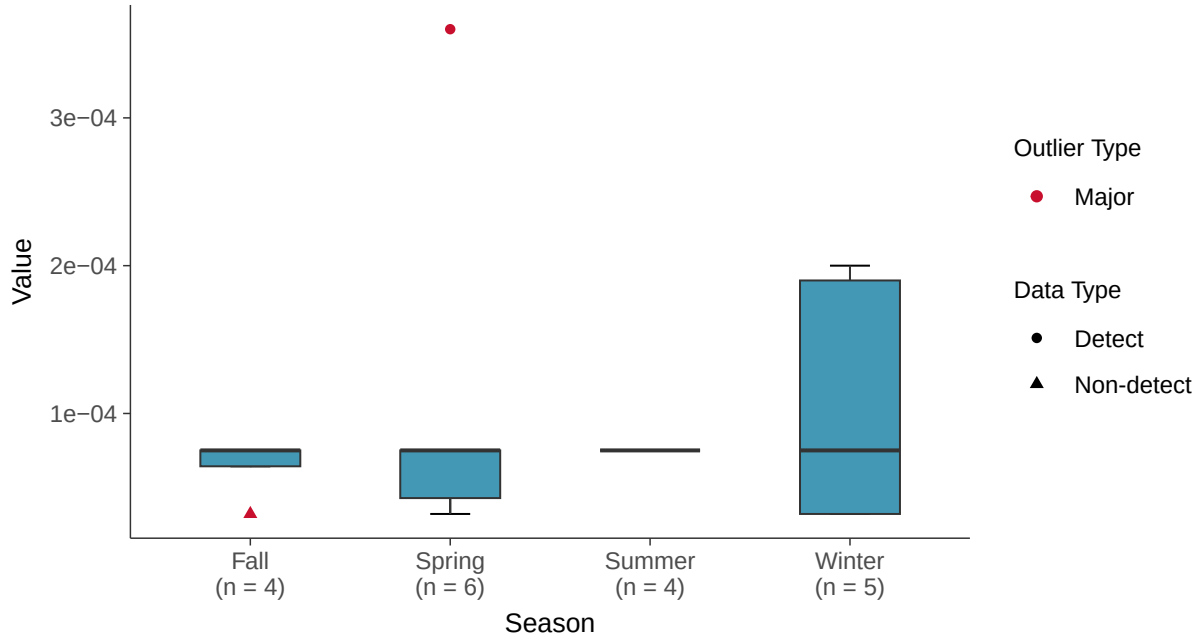
Boxplot

Cadmium, MW-32 (mg/L)



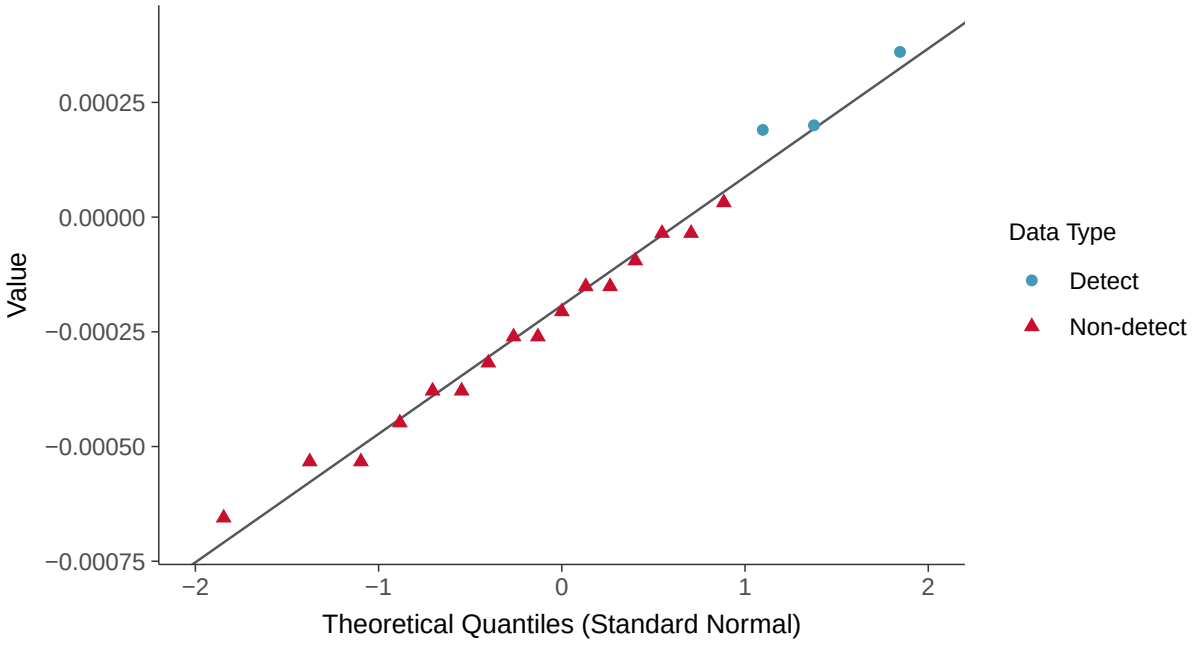
Boxplot by Season

Cadmium, MW-32 (mg/L)



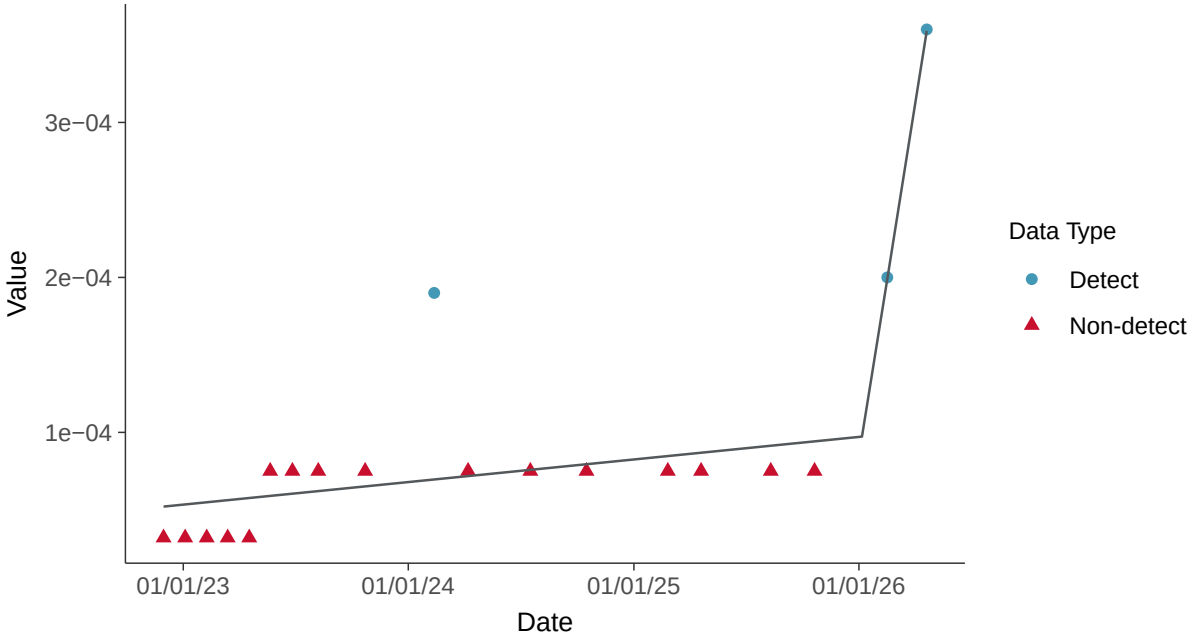
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-32 (mg/L)



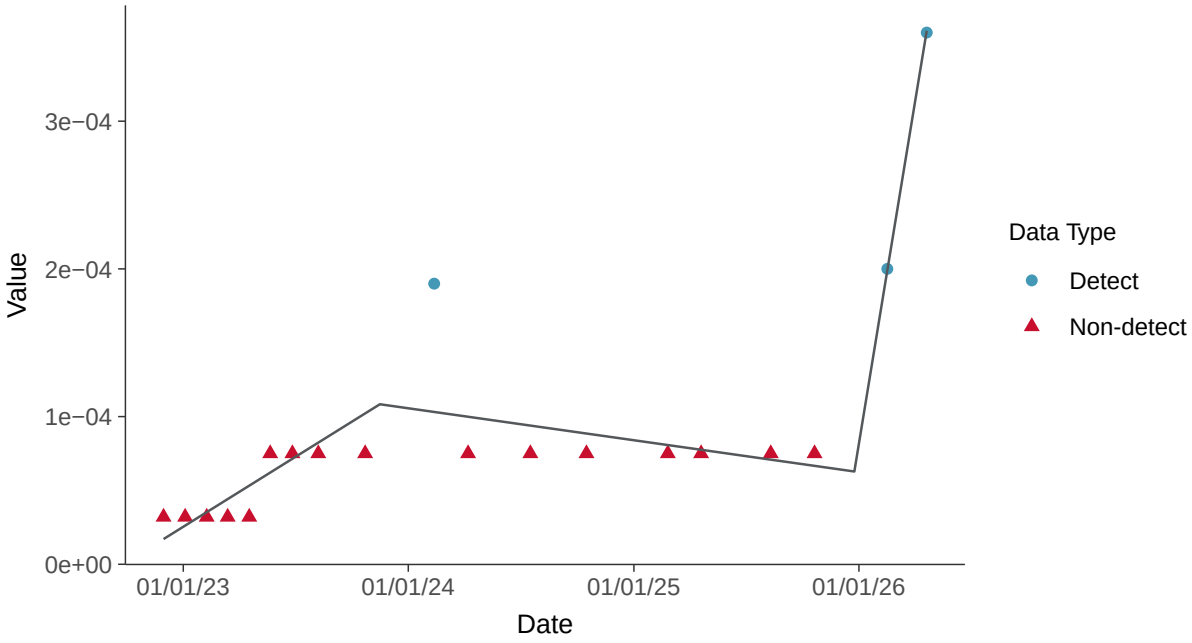
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-32 (mg/L)

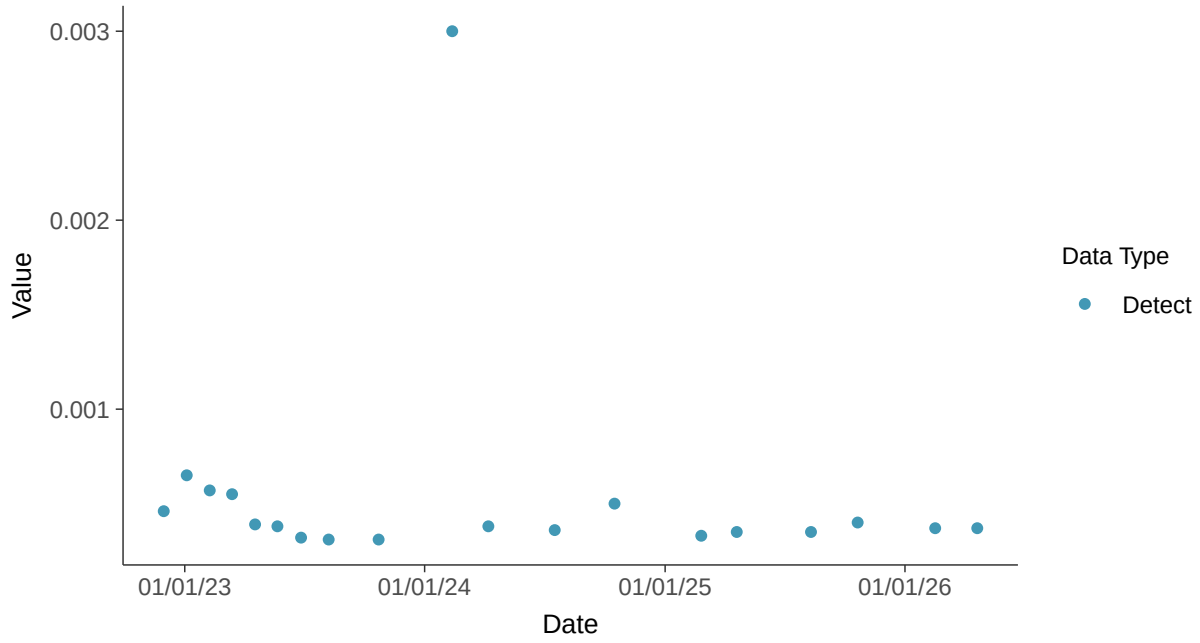


Appendix IV: Chromium, Total, MW-32

ID: 42_1_4_109

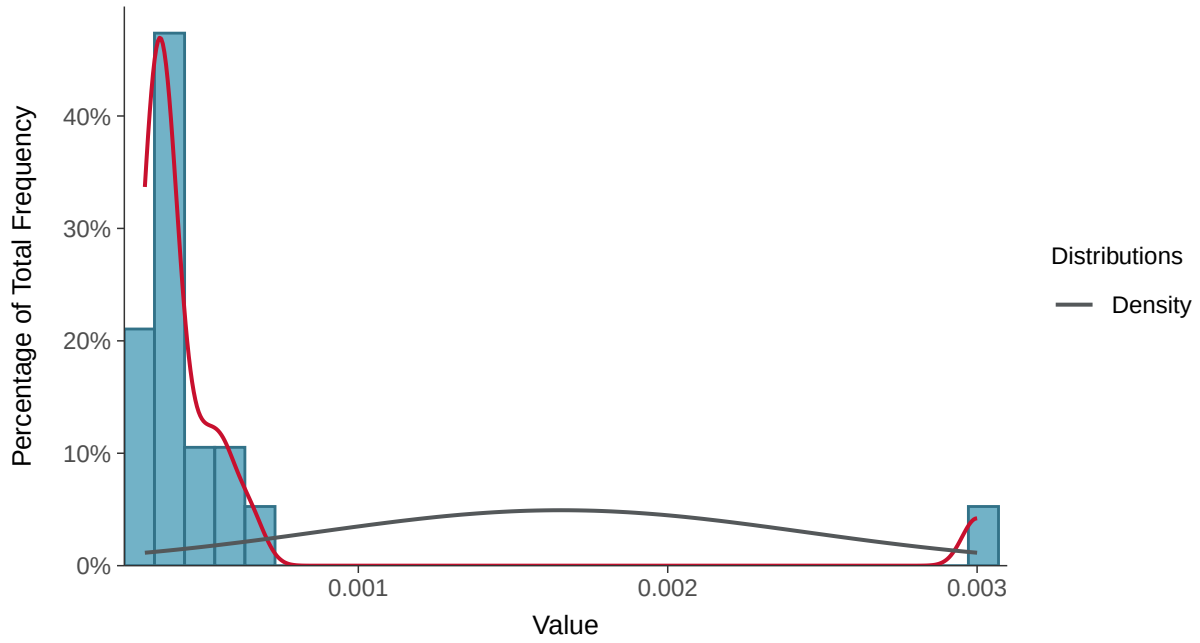
Scatter Plot

Chromium, Total, MW-32 (mg/L)



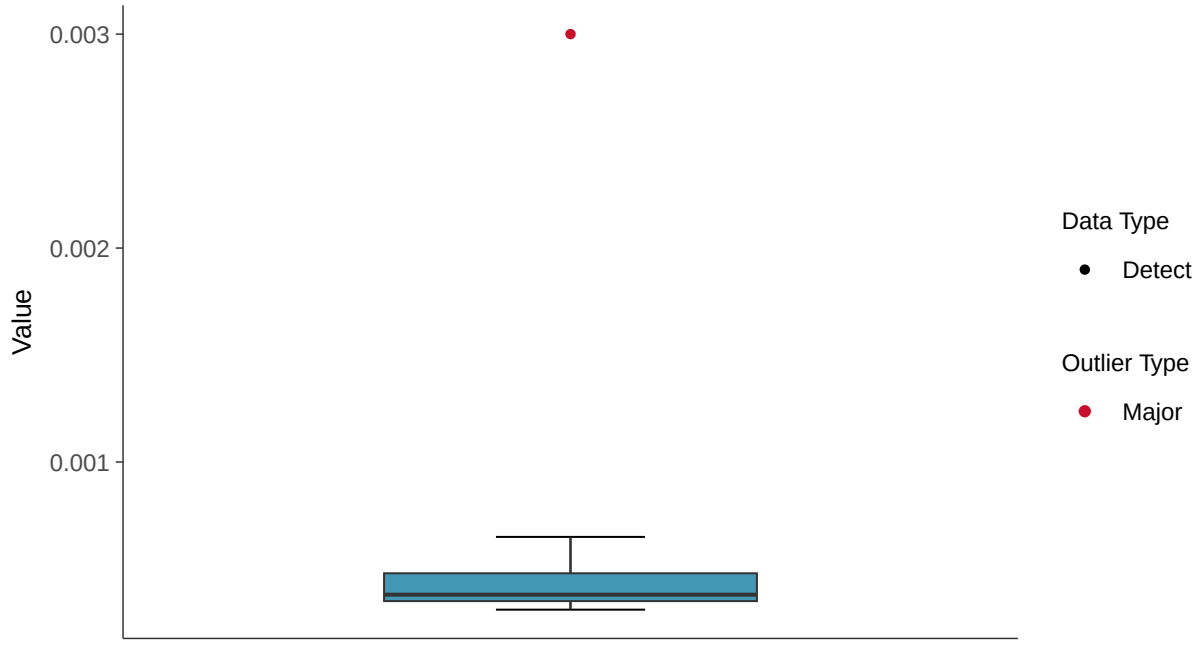
Histogram

Chromium, Total, MW-32 (mg/L)



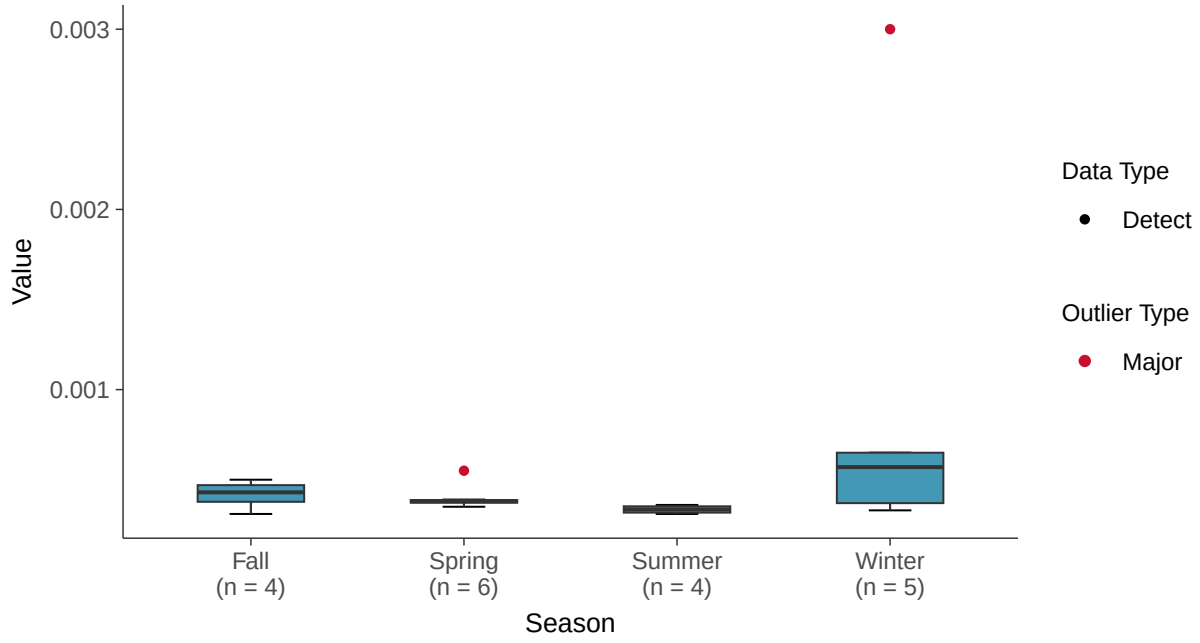
Boxplot

Chromium, Total, MW-32 (mg/L)



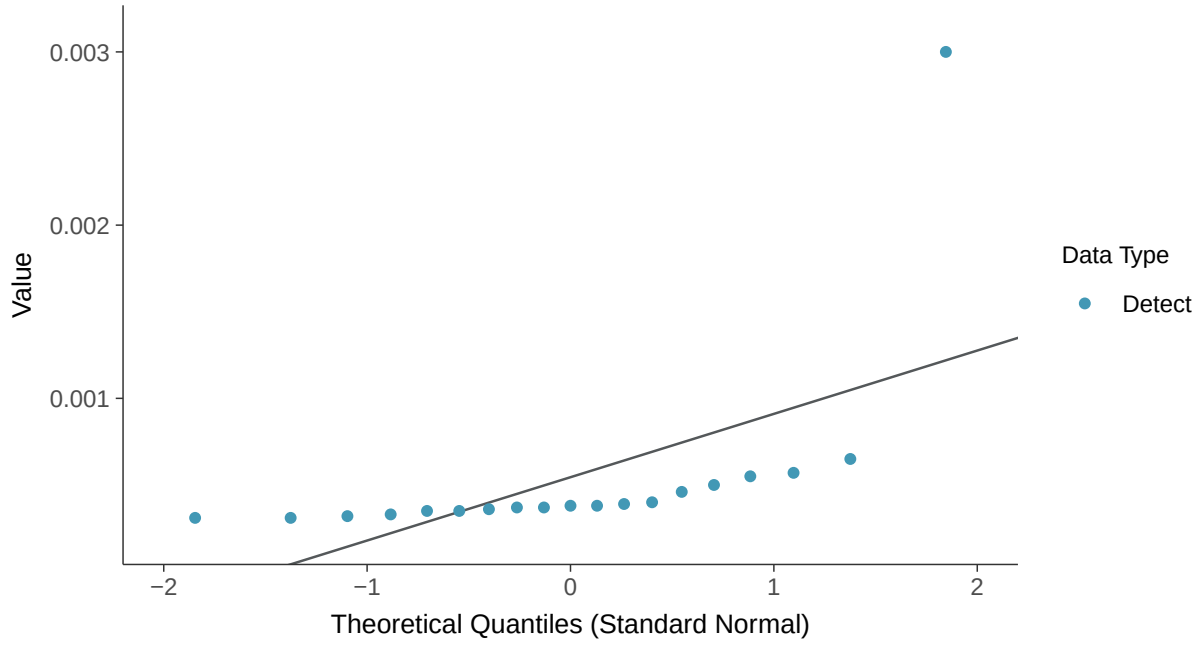
Boxplot by Season

Chromium, Total, MW-32 (mg/L)



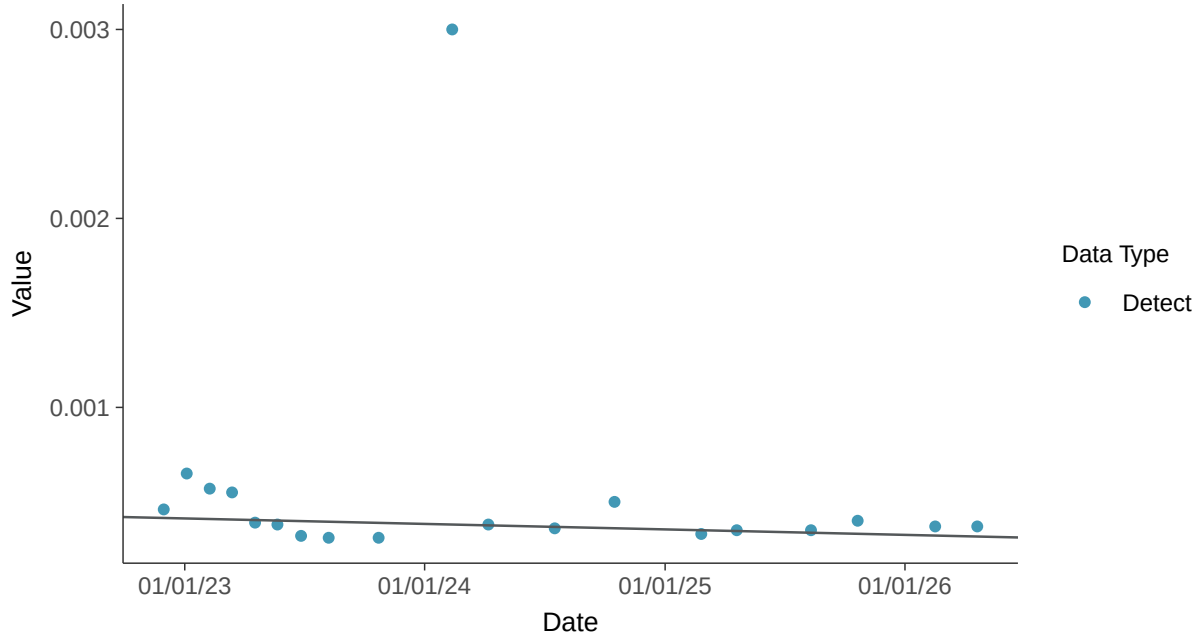
Normal Q-Q plot

Chromium, Total, MW-32 (mg/L)



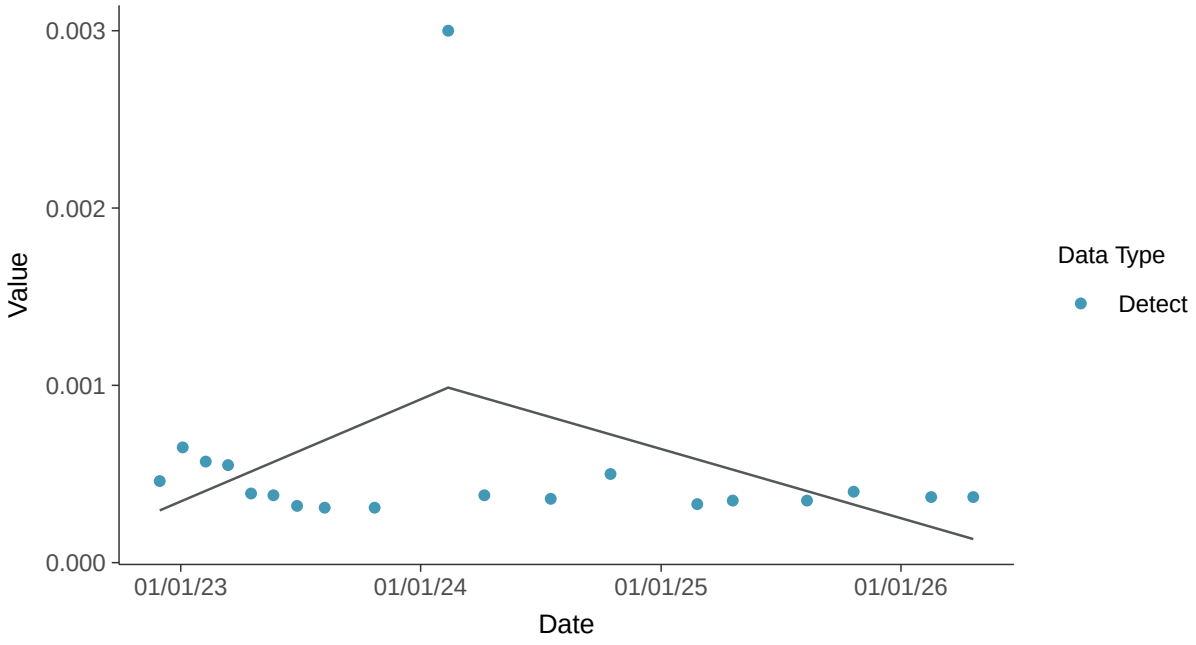
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Chromium, Total, MW-32 (mg/L)



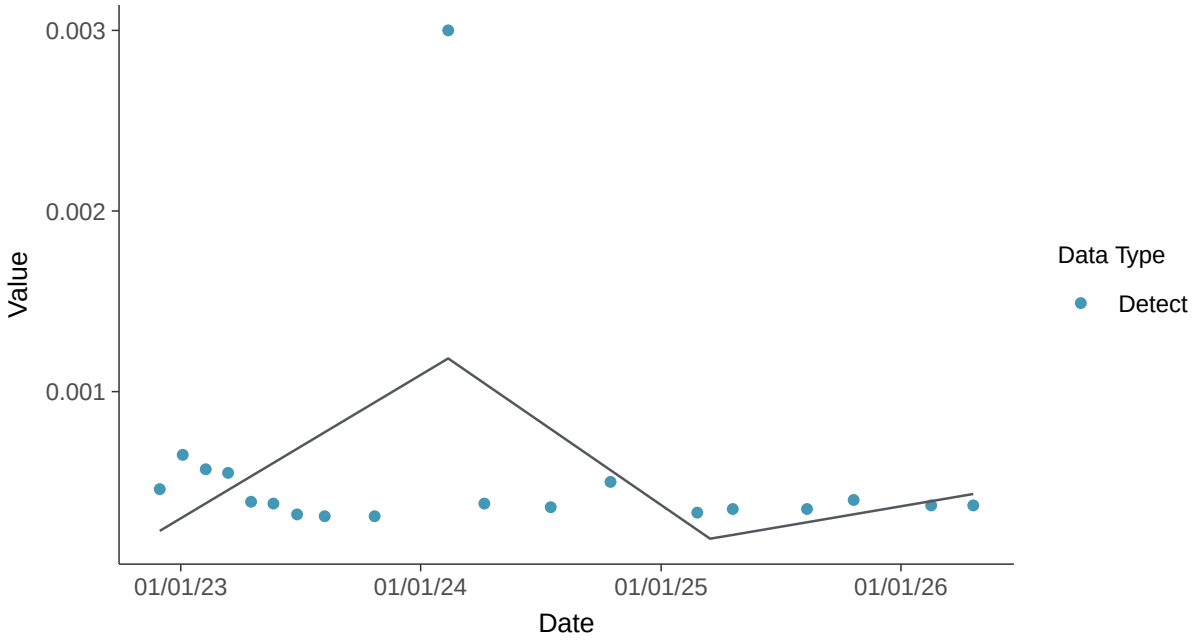
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-32 (mg/L)

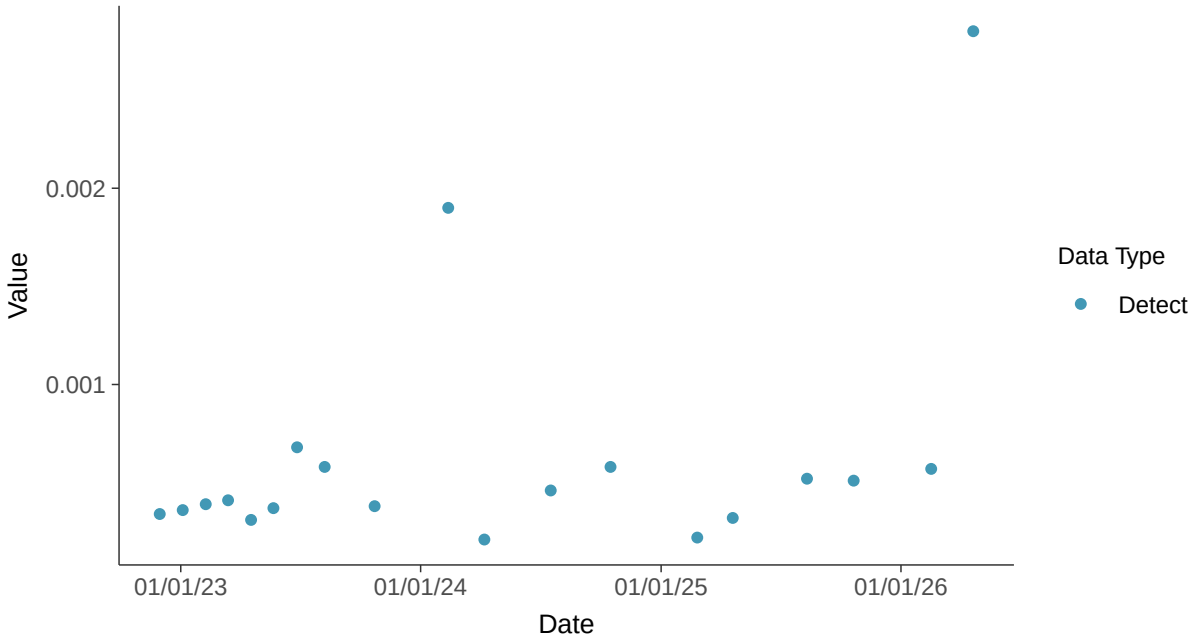


Appendix IV: Cobalt, MW-32

ID: 42_1_4_110

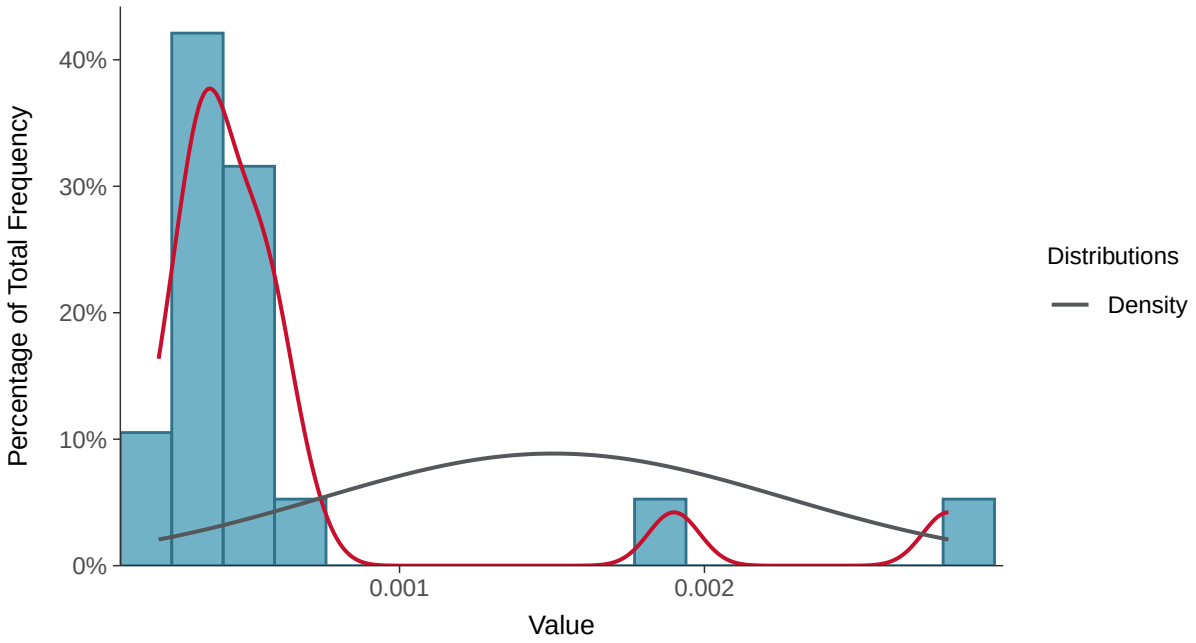
Scatter Plot

Cobalt, MW-32 (mg/L)



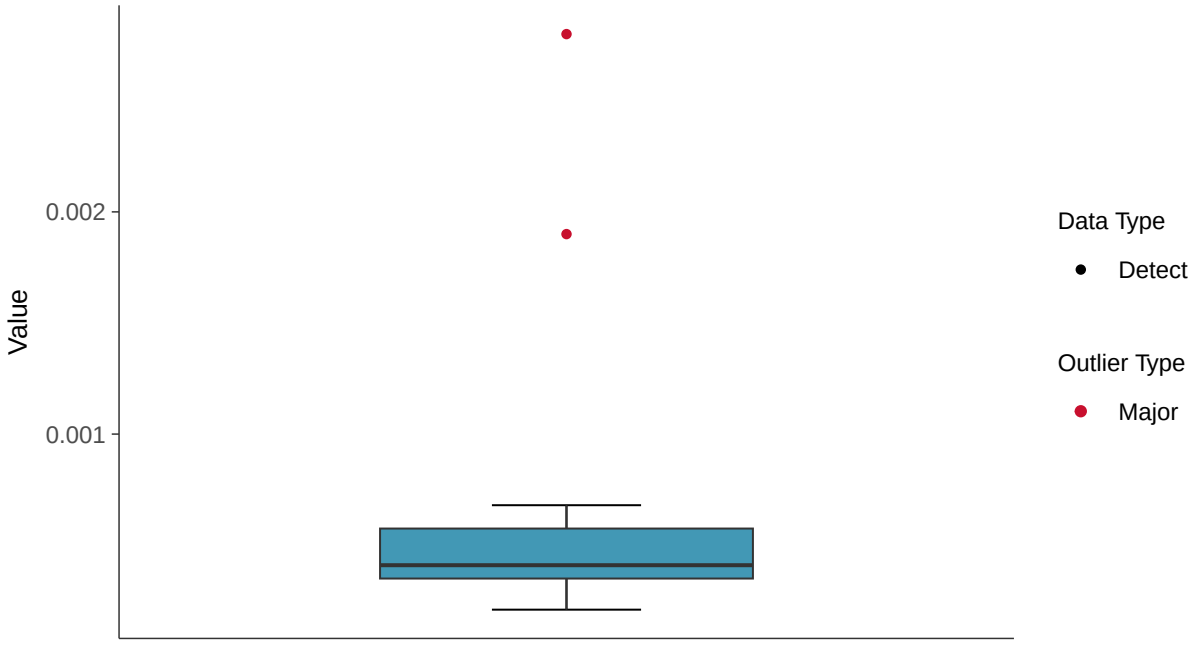
Histogram

Cobalt, MW-32 (mg/L)



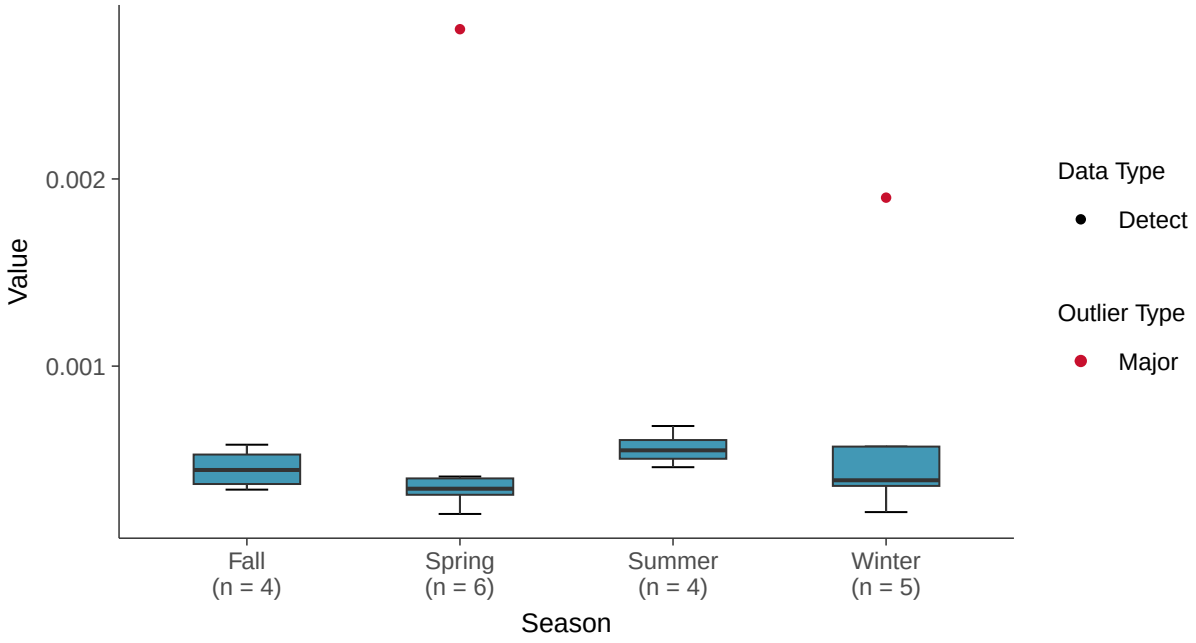
Boxplot

Cobalt, MW-32 (mg/L)



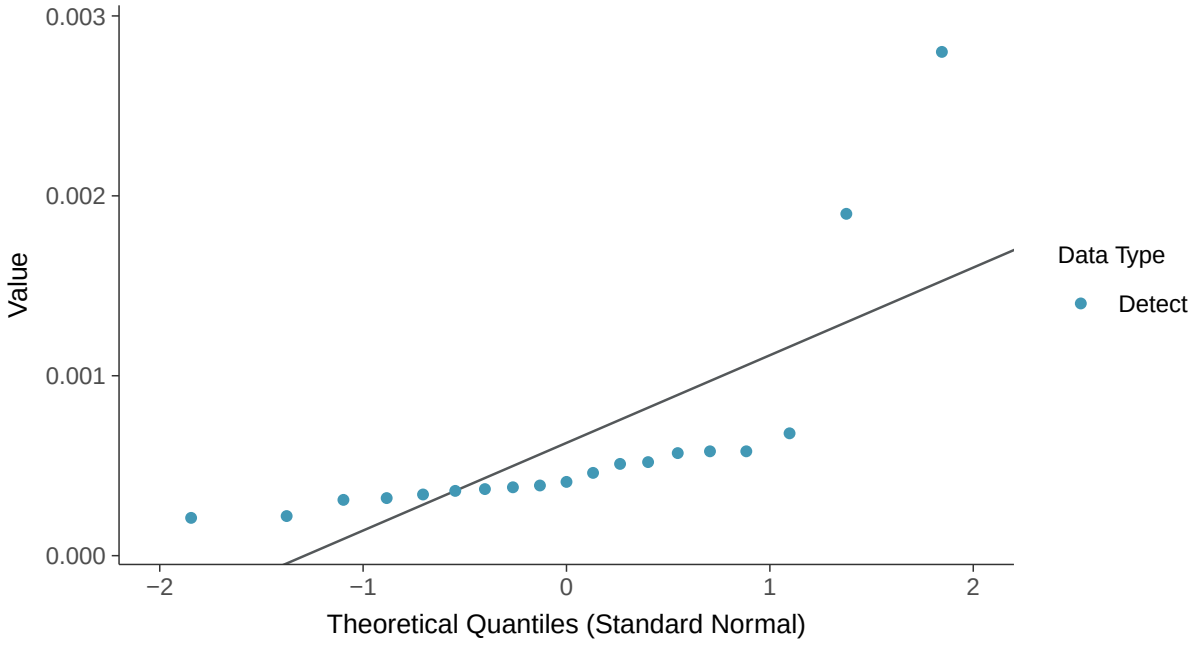
Boxplot by Season

Cobalt, MW-32 (mg/L)



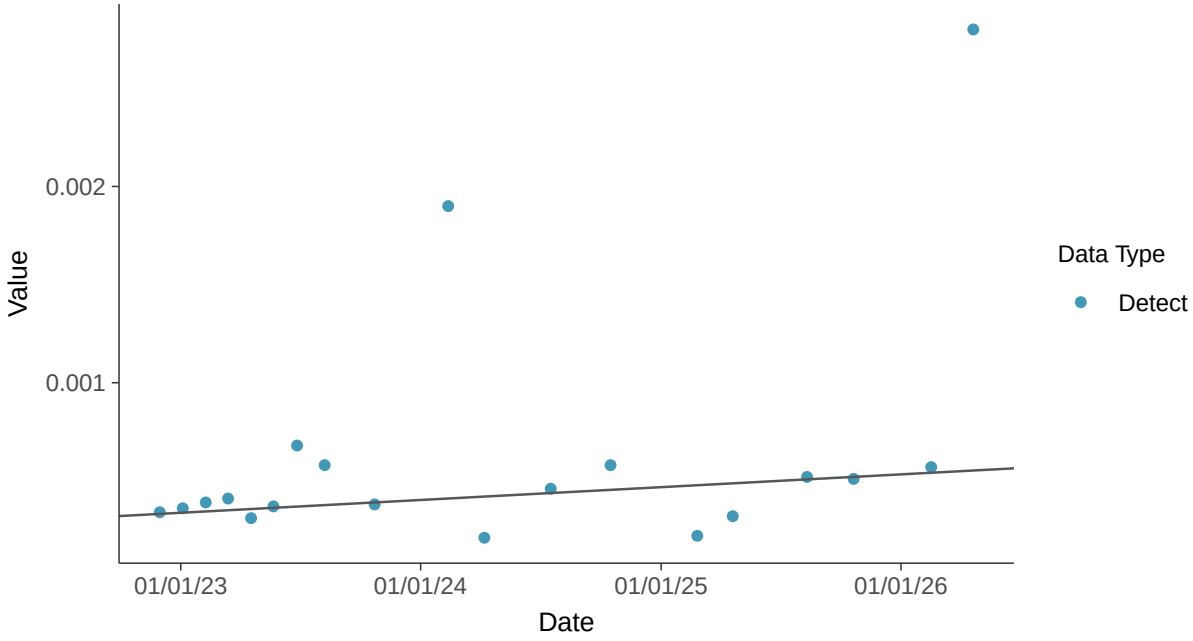
Normal Q-Q plot

Cobalt, MW-32 (mg/L)



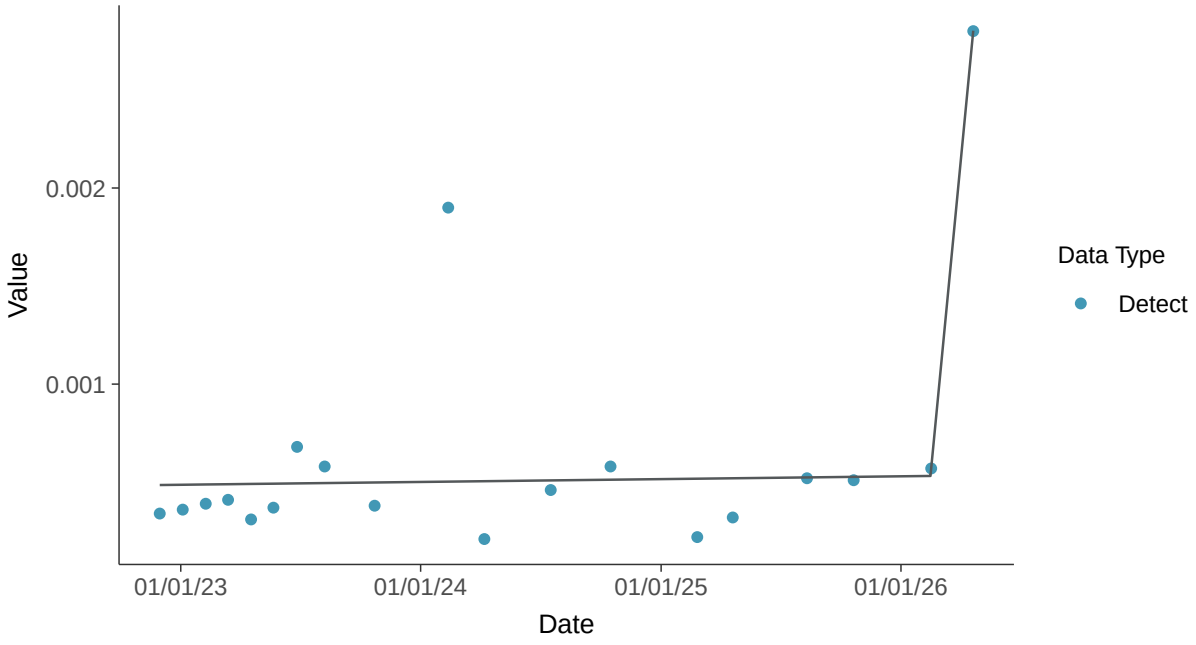
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Cobalt, MW-32 (mg/L)



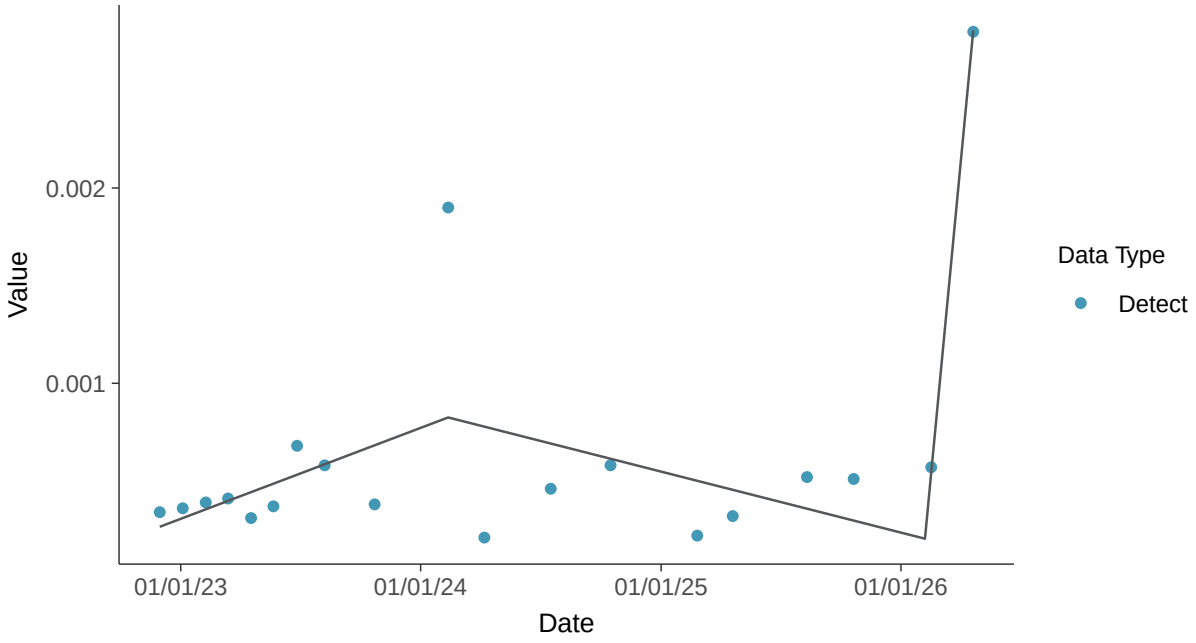
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-32 (mg/L)

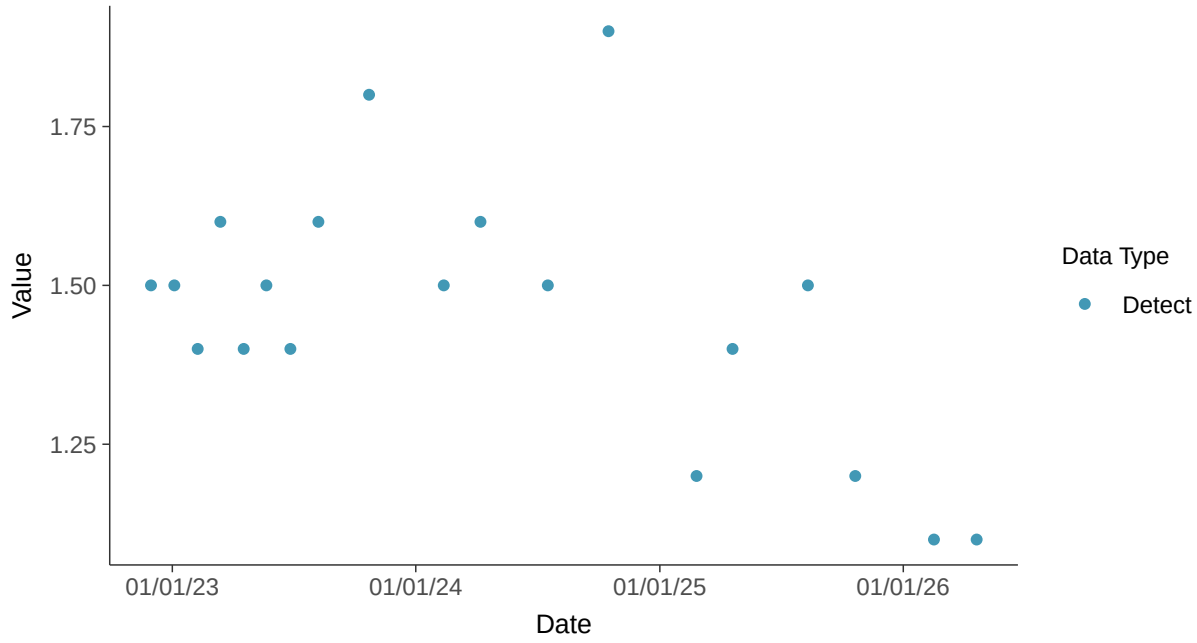


Appendix IV: Fluoride (App IV), MW-32

ID: 42_1_4_113

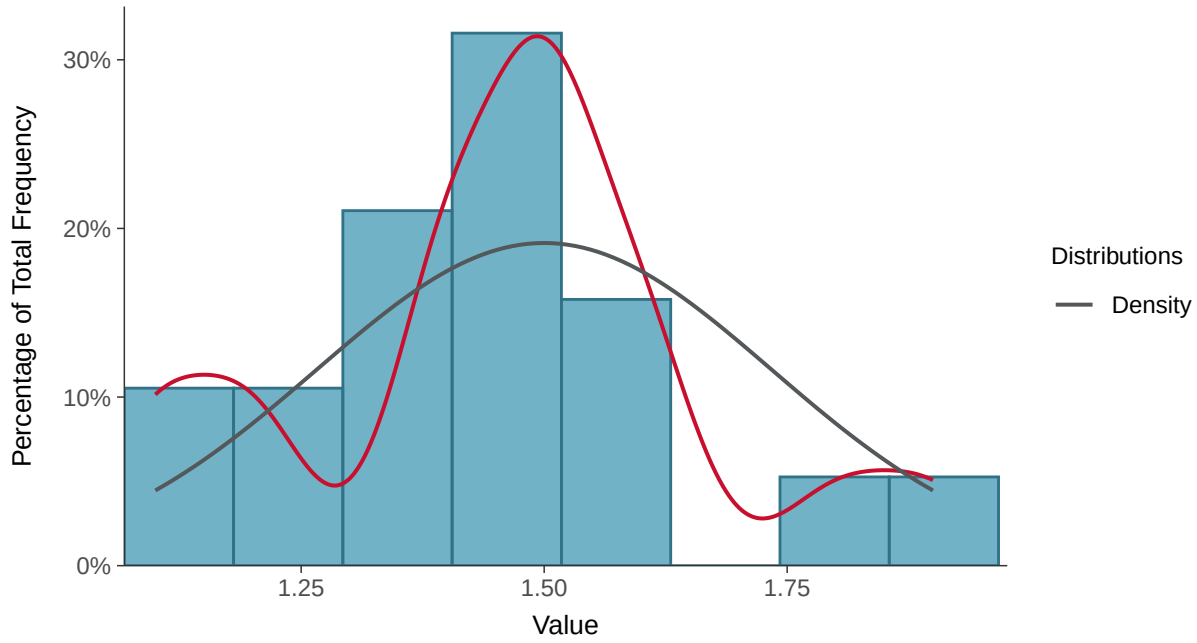
Scatter Plot

Fluoride (App IV), MW-32 (mg/L)



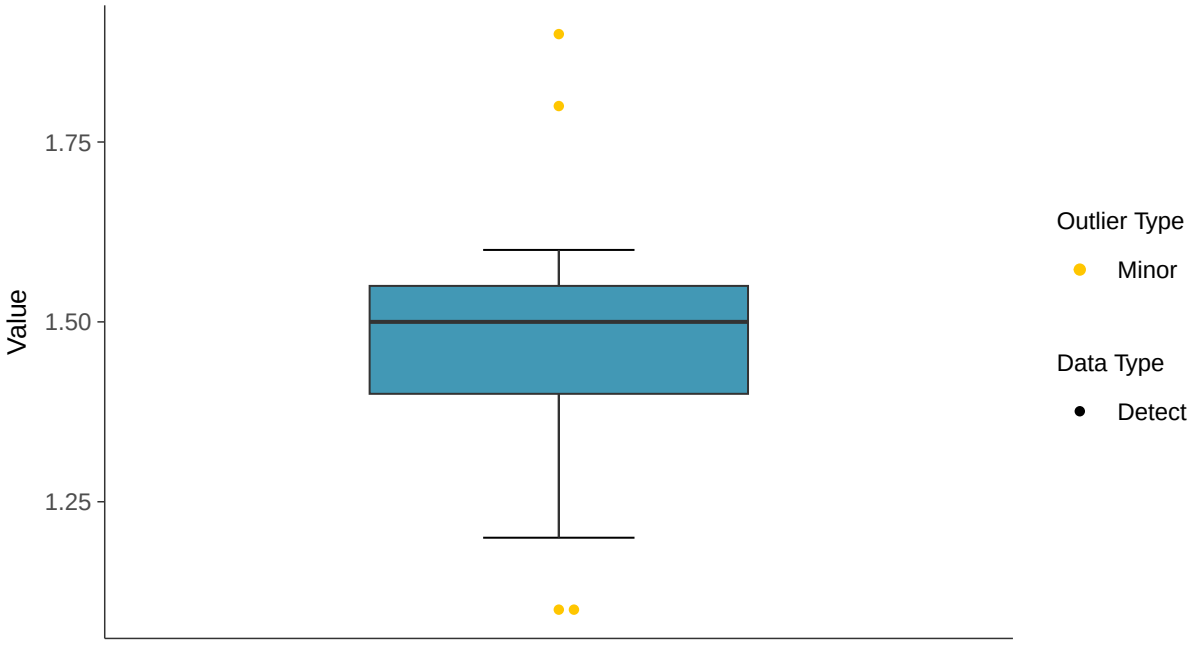
Histogram

Fluoride (App IV), MW-32 (mg/L)



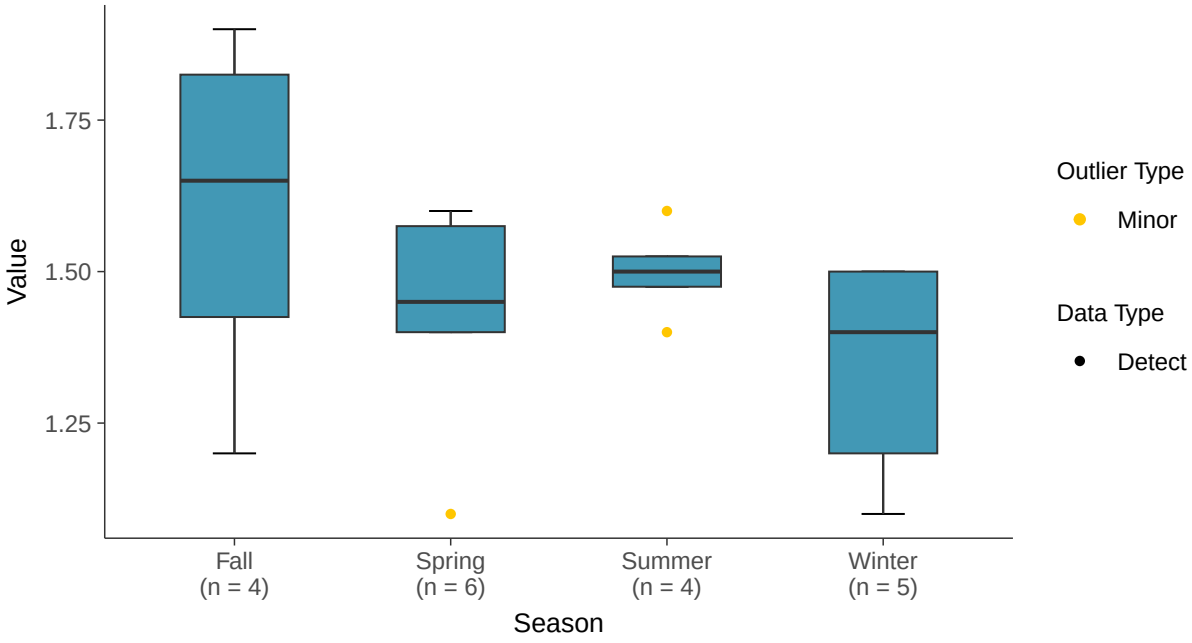
Boxplot

Fluoride (App IV), MW-32 (mg/L)



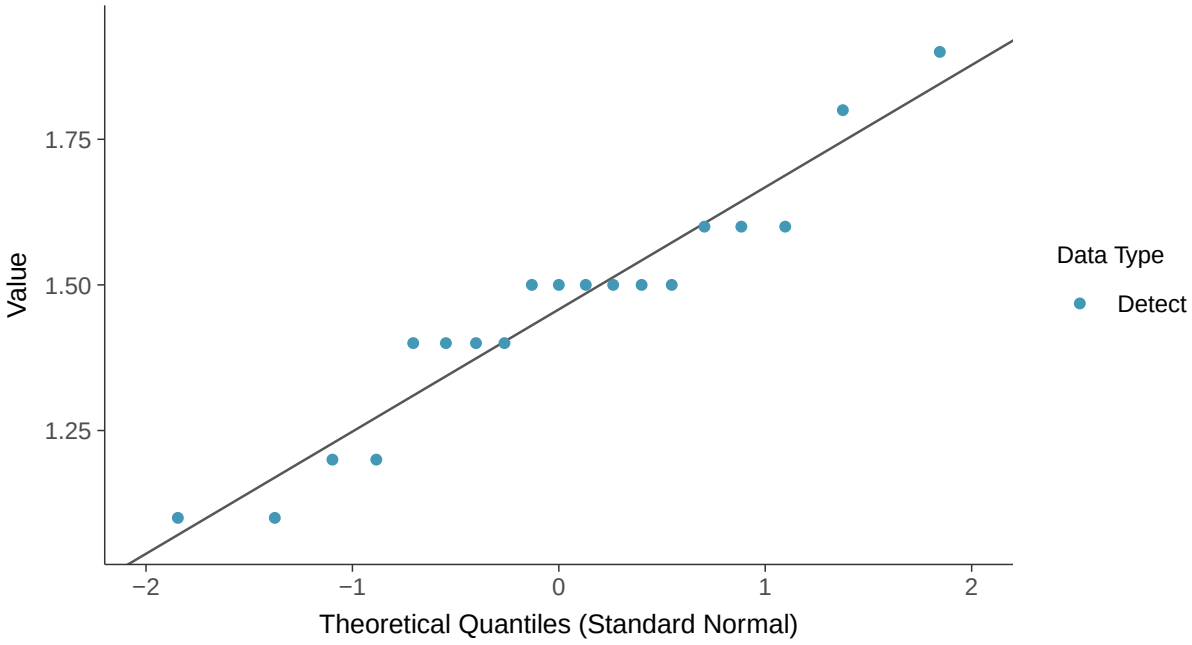
Boxplot by Season

Fluoride (App IV), MW-32 (mg/L)



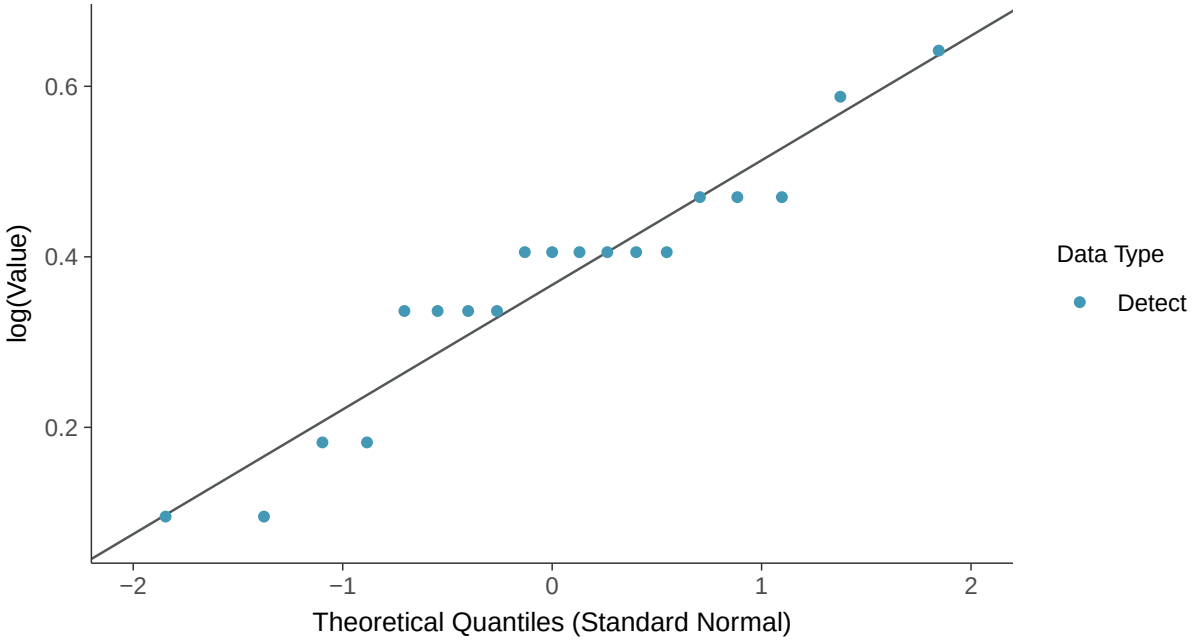
Normal Q-Q plot

Fluoride (App IV), MW-32 (mg/L)



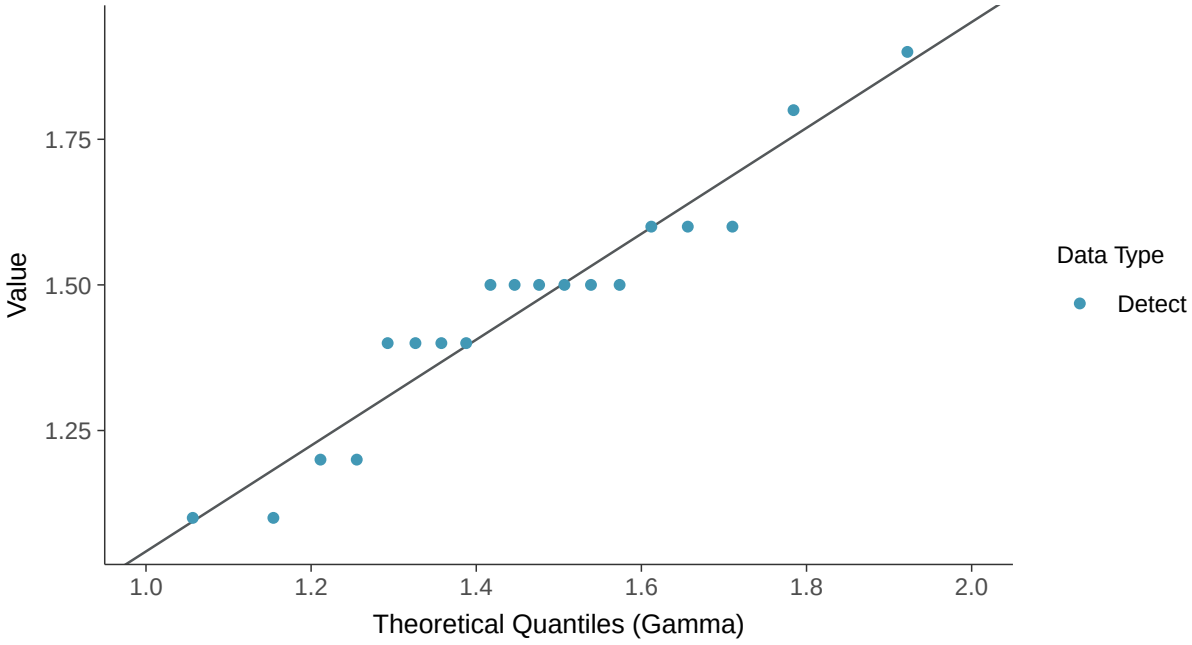
Lognormal Q-Q plot

Fluoride (App IV), MW-32 (mg/L)



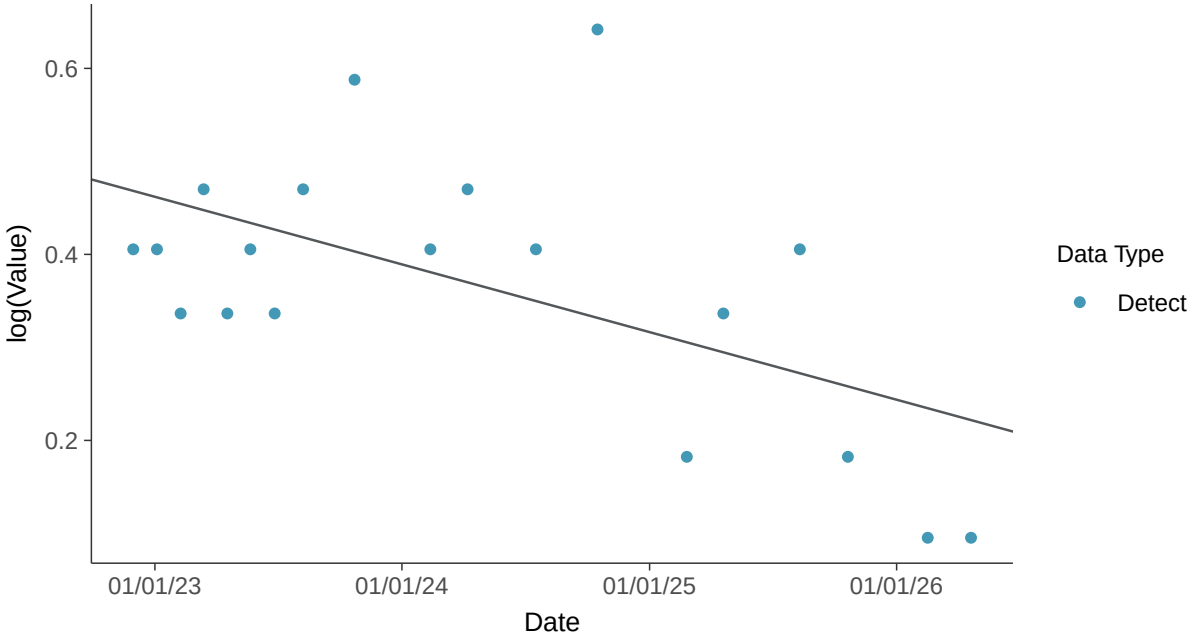
Gamma Q-Q plot

Fluoride (App IV), MW-32 (mg/L)



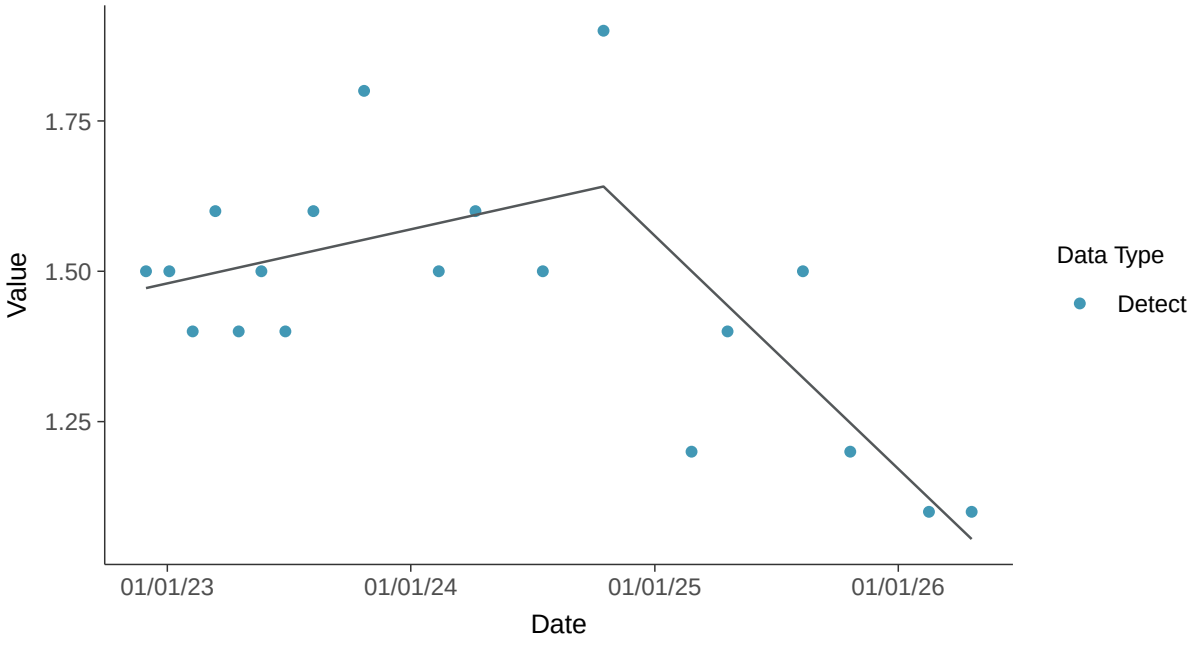
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-32 (mg/L)



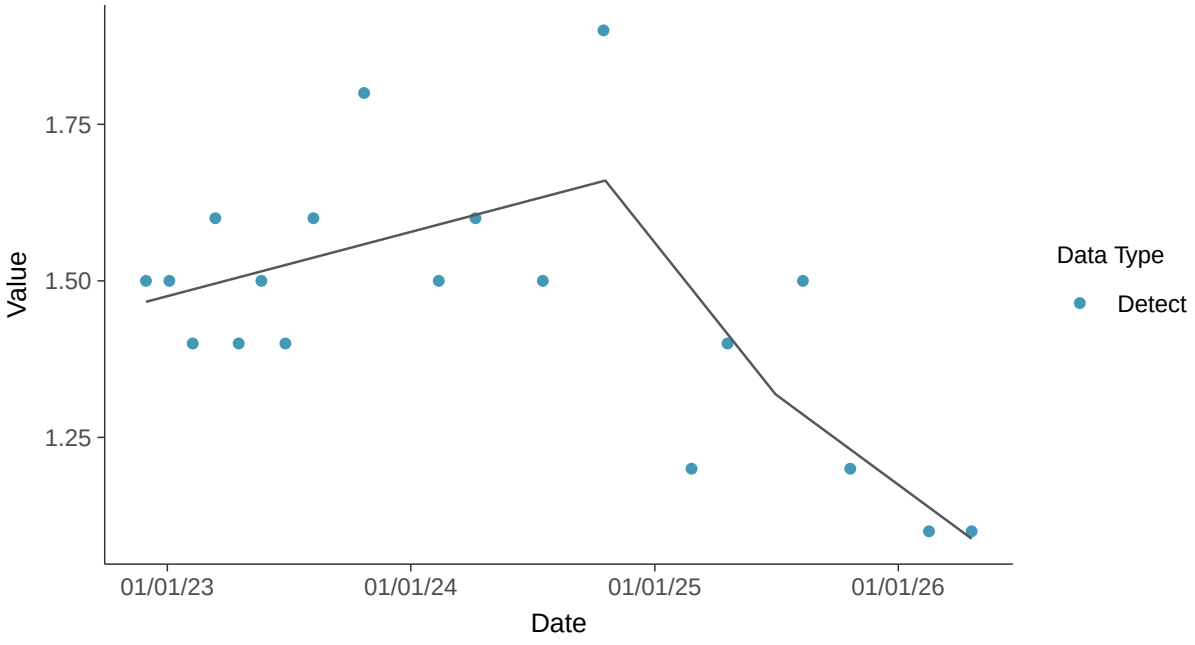
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-32 (mg/L)



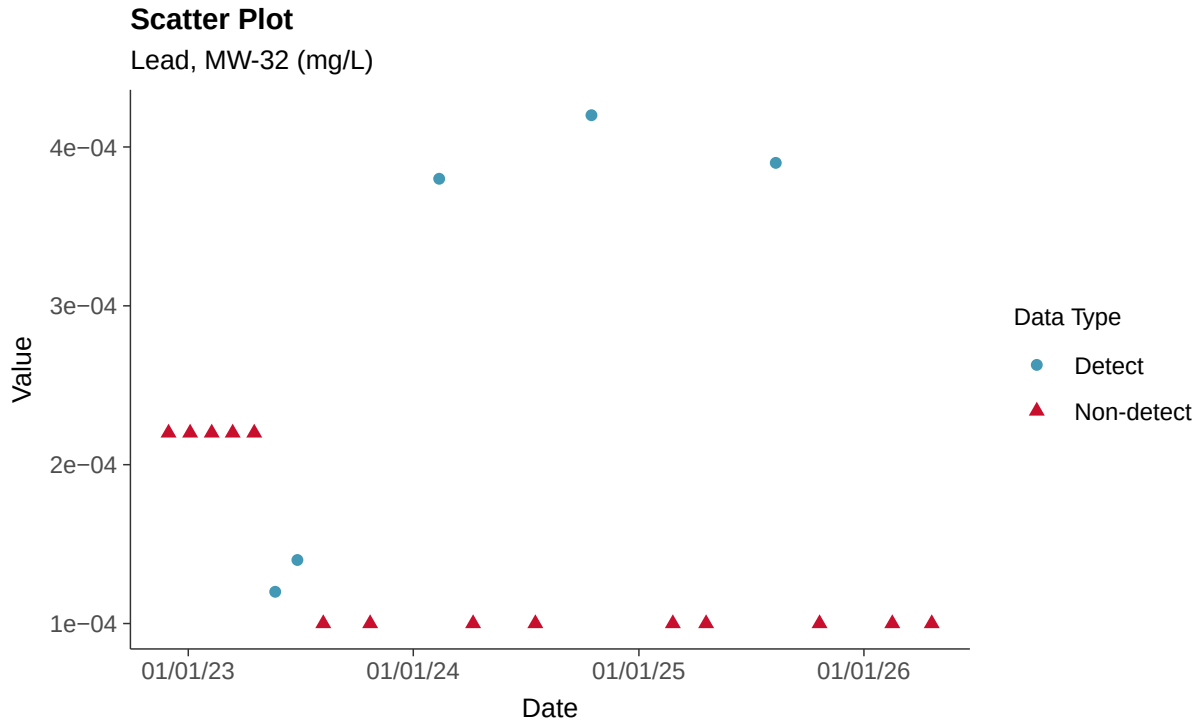
Trend Regression: Piecewise Linear-Linear-Linear

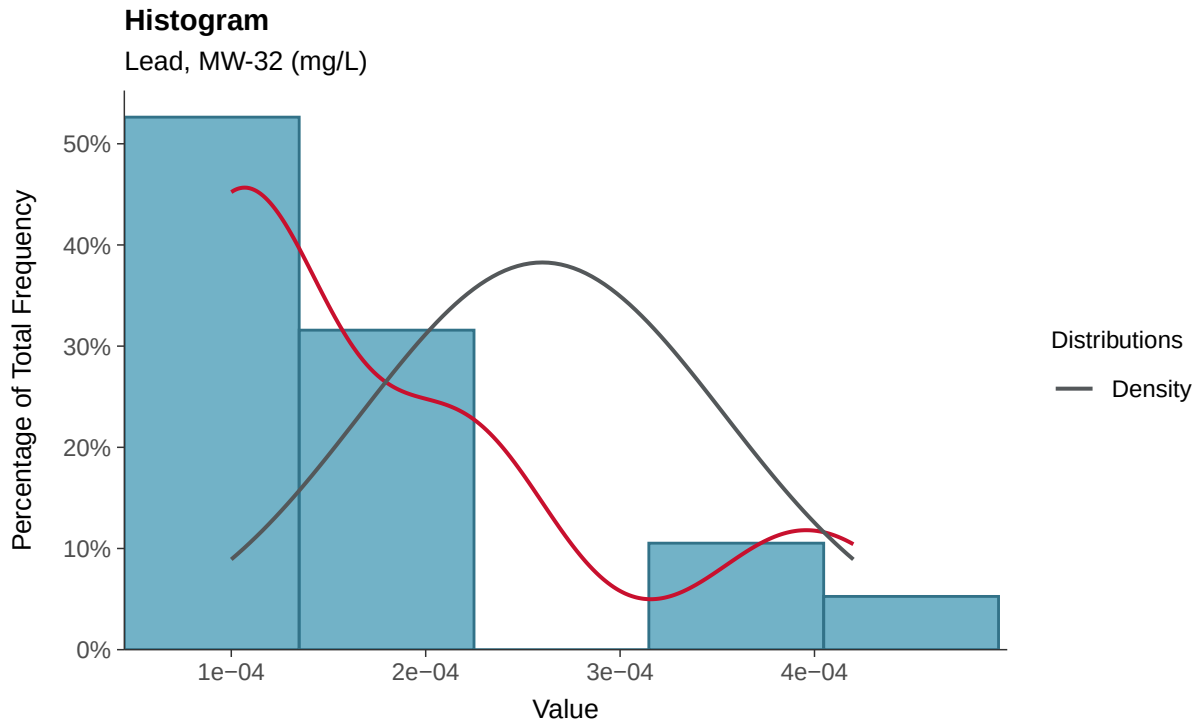
Fluoride (App IV), MW-32 (mg/L)



Appendix IV: Lead, MW-32

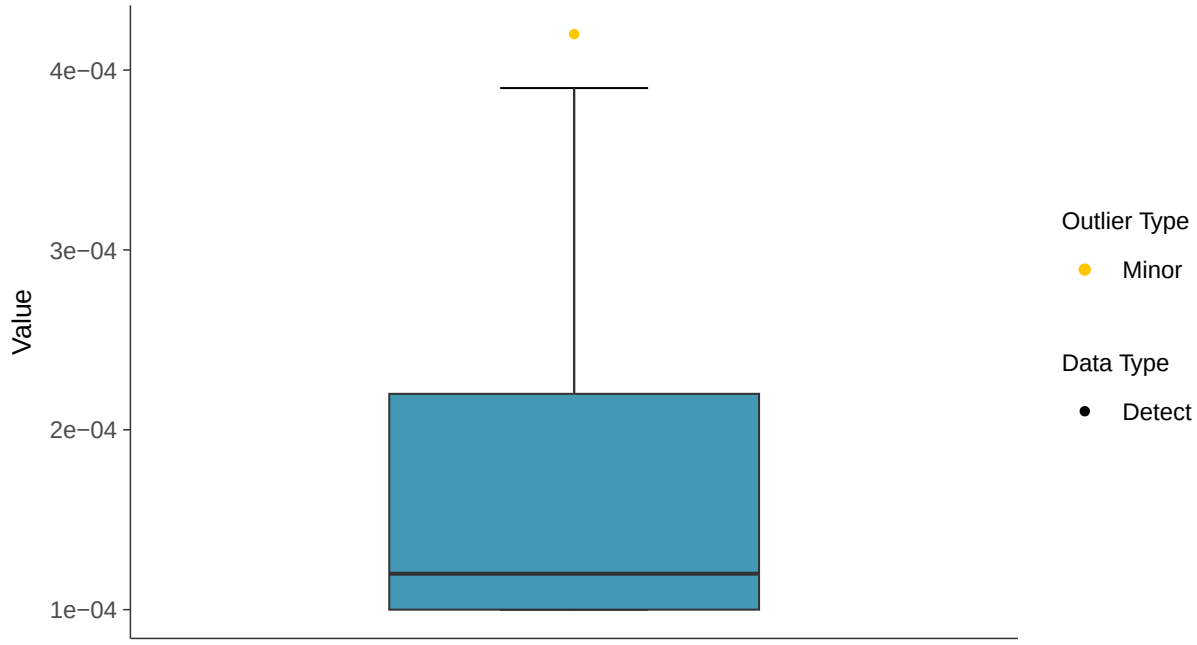
ID: 42_1_4_115





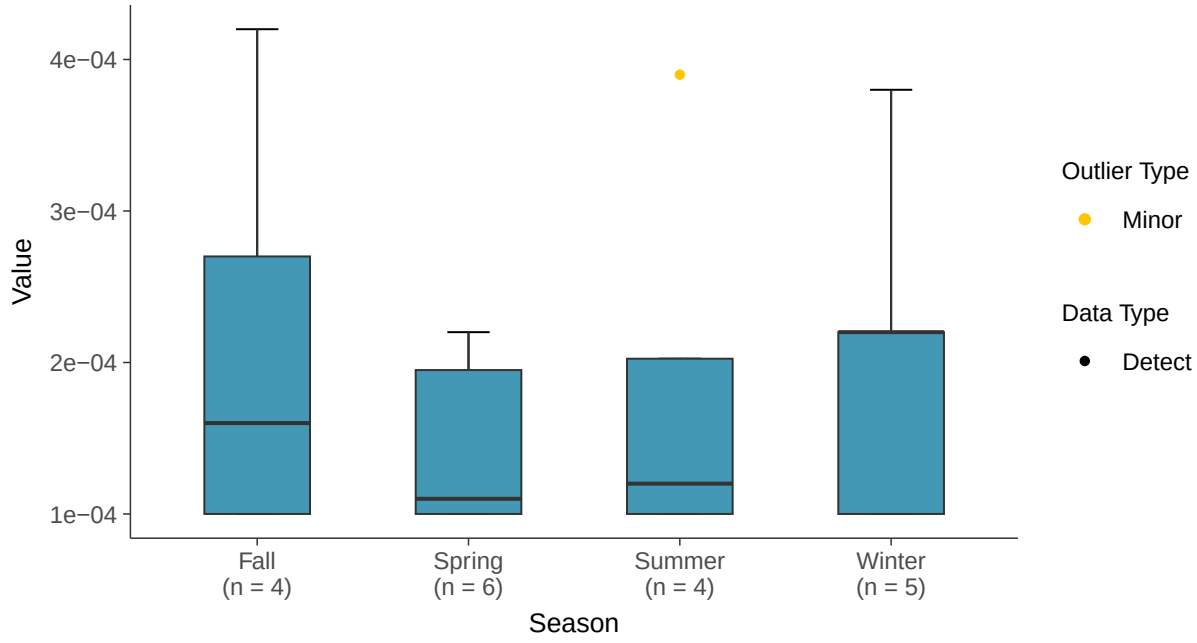
Boxplot

Lead, MW-32 (mg/L)



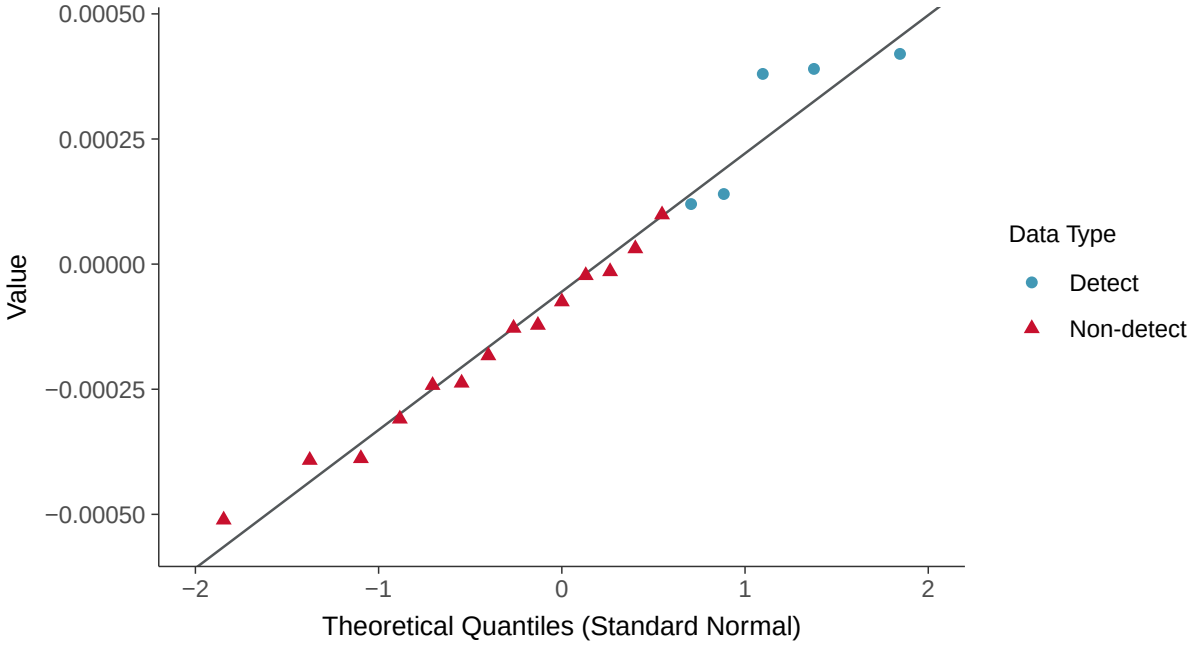
Boxplot by Season

Lead, MW-32 (mg/L)



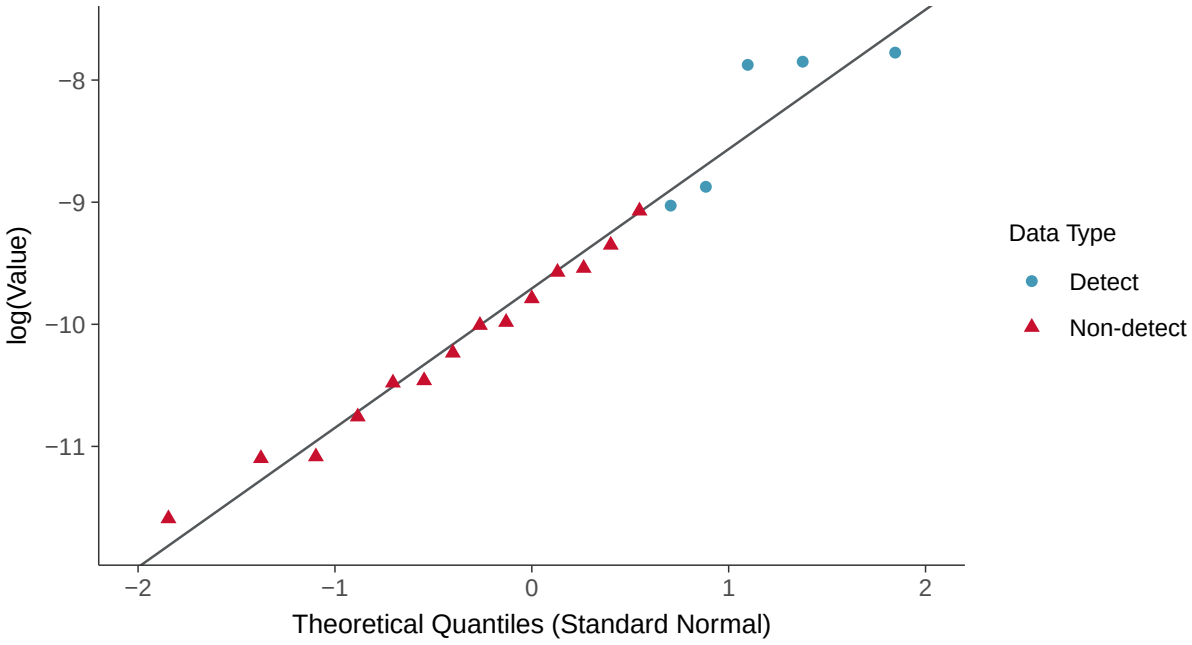
Normal Q-Q plot using ROS Imputed Estimates

Lead, MW-32 (mg/L)



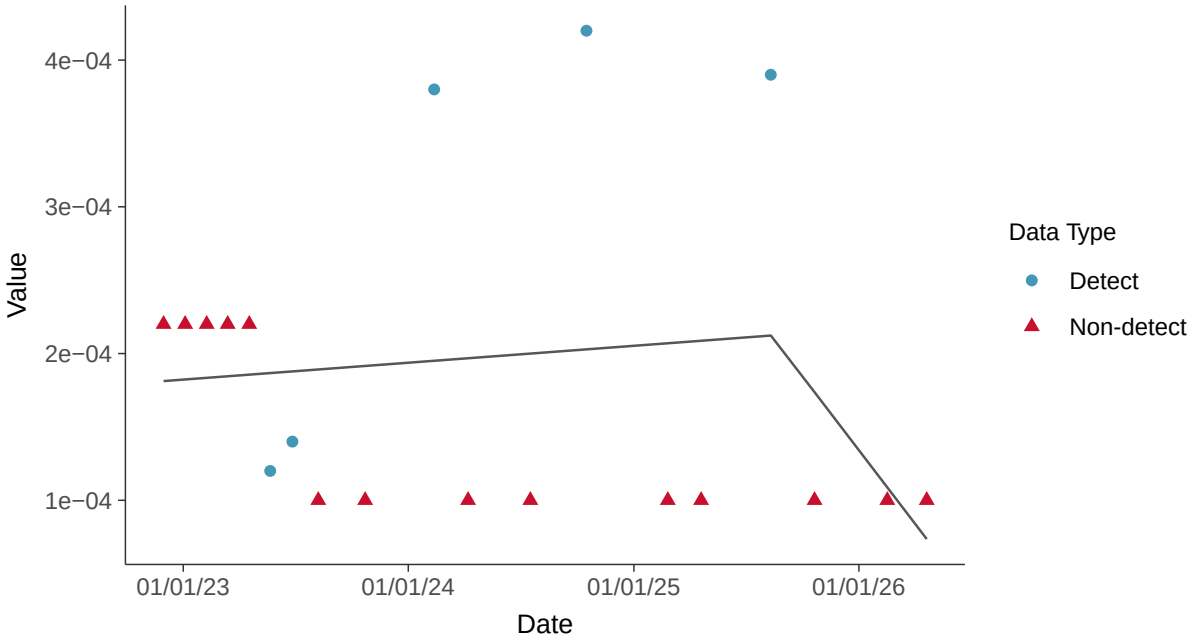
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-32 (mg/L)



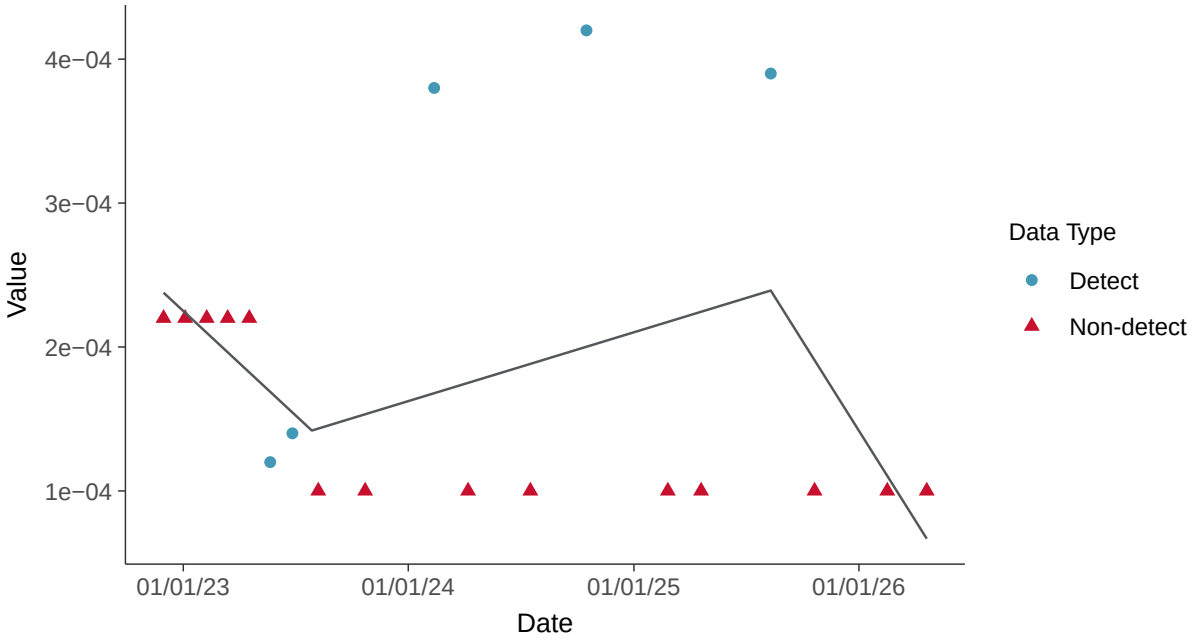
Trend Regression: Piecewise Linear-Linear

Lead, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Lead, MW-32 (mg/L)

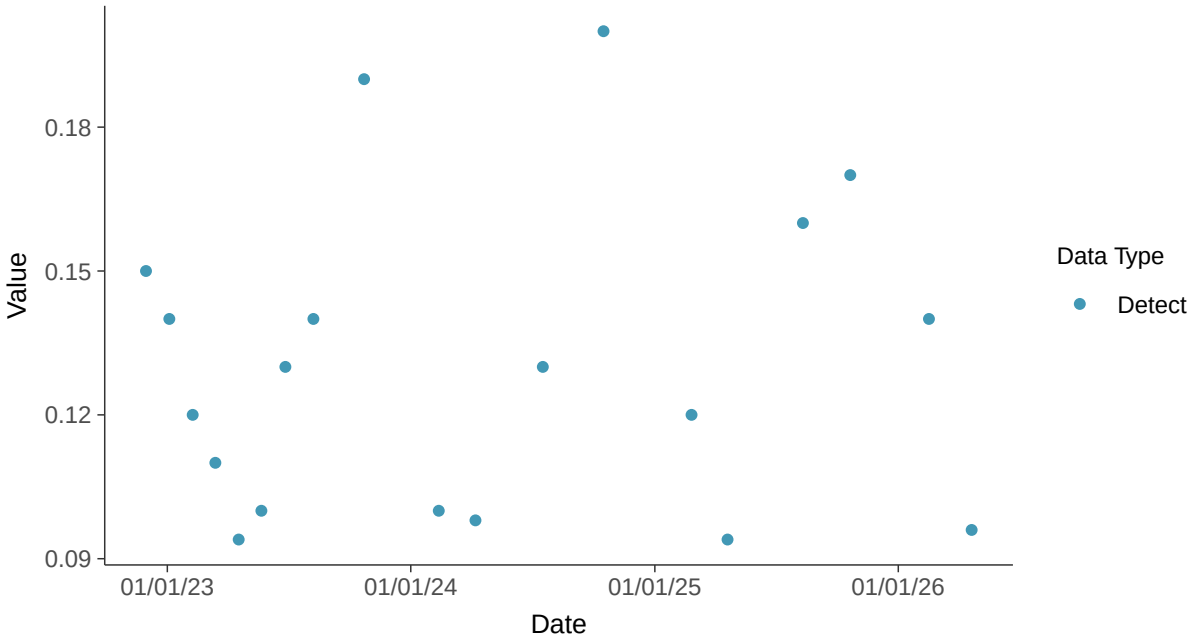


Appendix IV: Lithium, MW-32

ID: 42_1_4_116

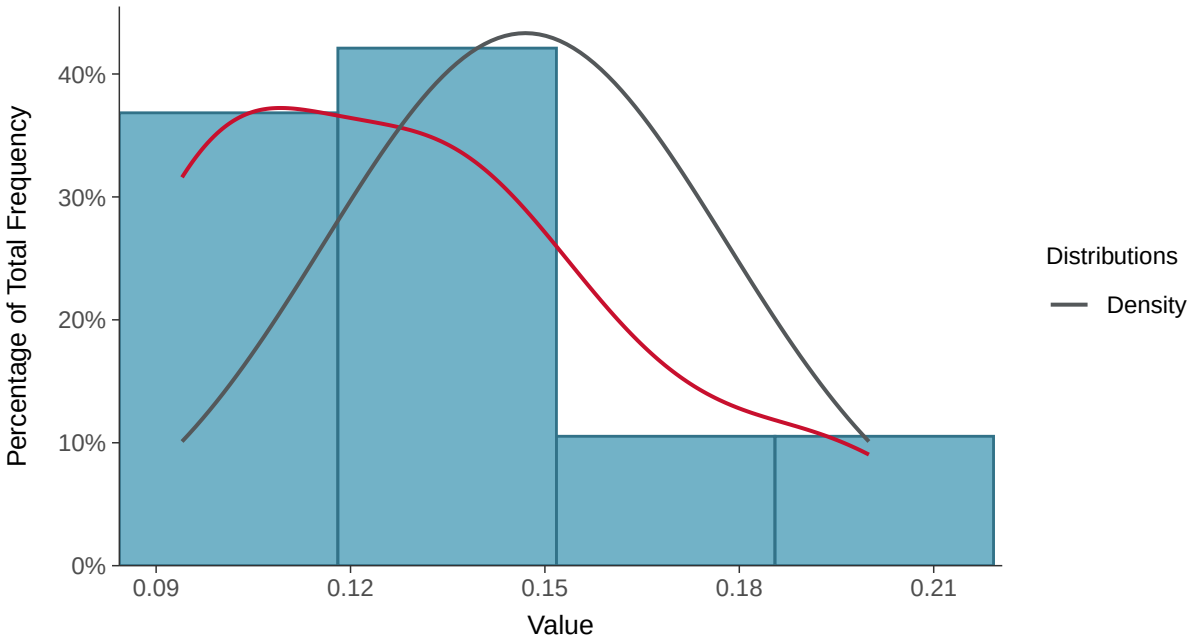
Scatter Plot

Lithium, MW-32 (mg/L)



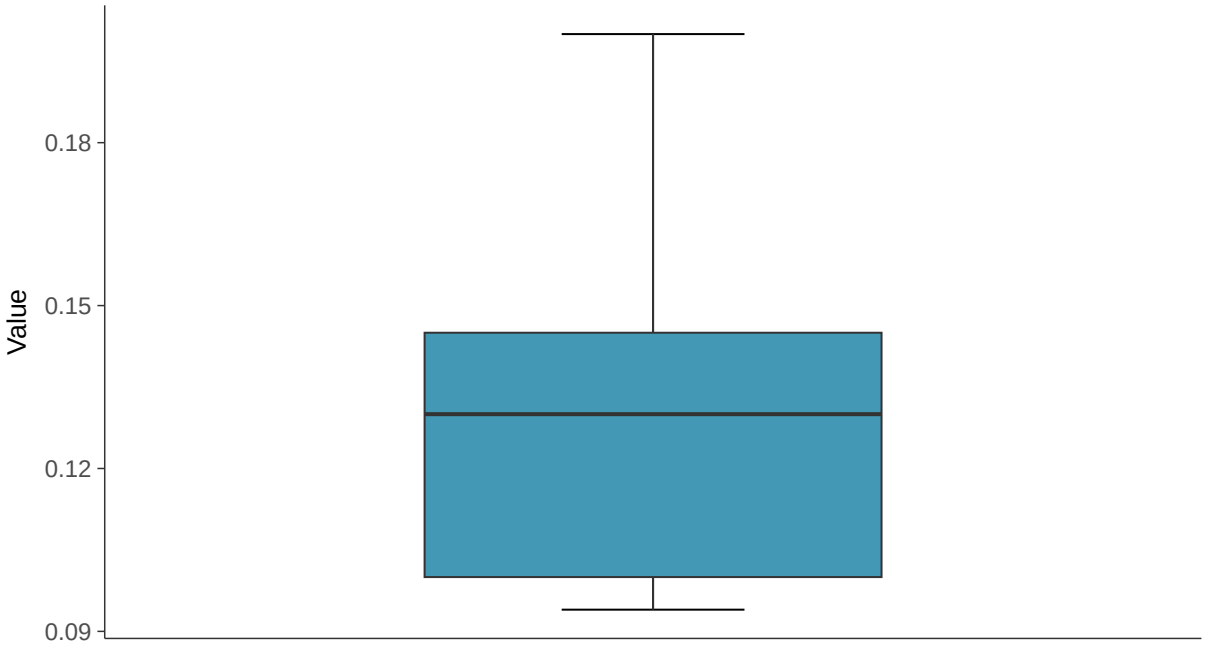
Histogram

Lithium, MW-32 (mg/L)



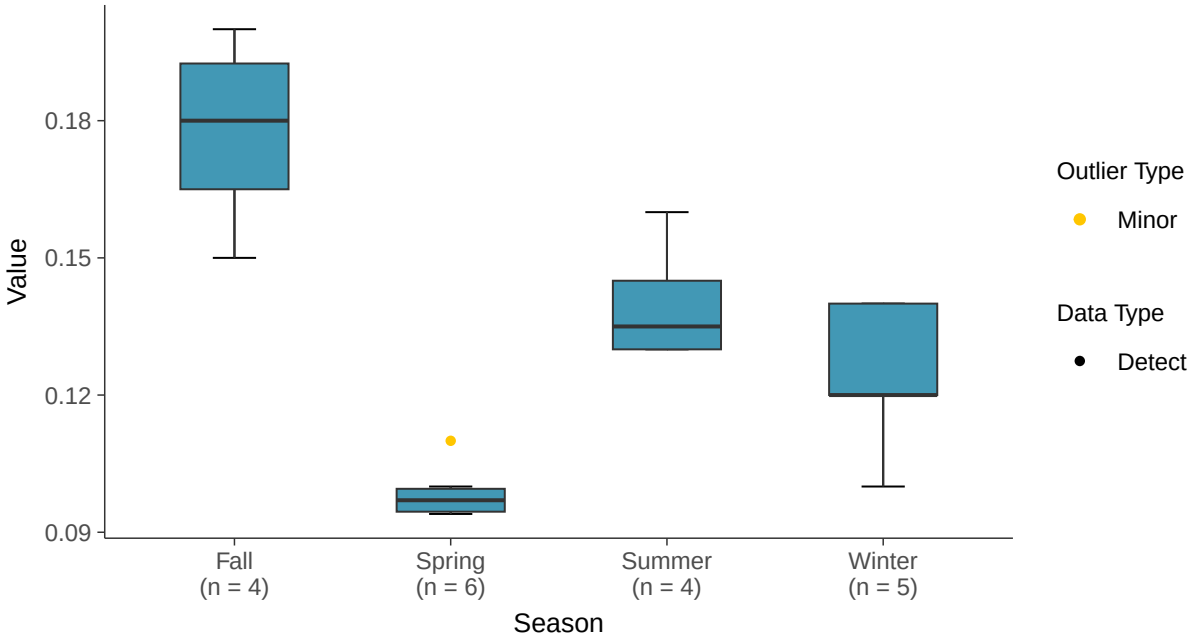
Boxplot

Lithium, MW-32 (mg/L)



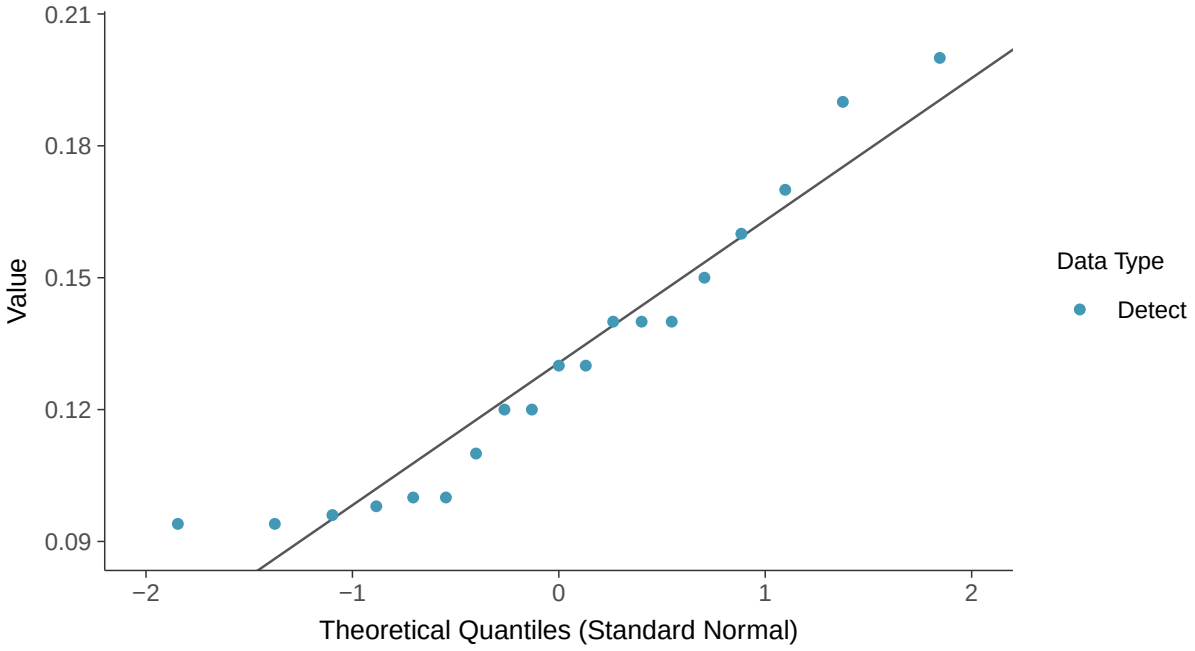
Boxplot by Season

Lithium, MW-32 (mg/L)



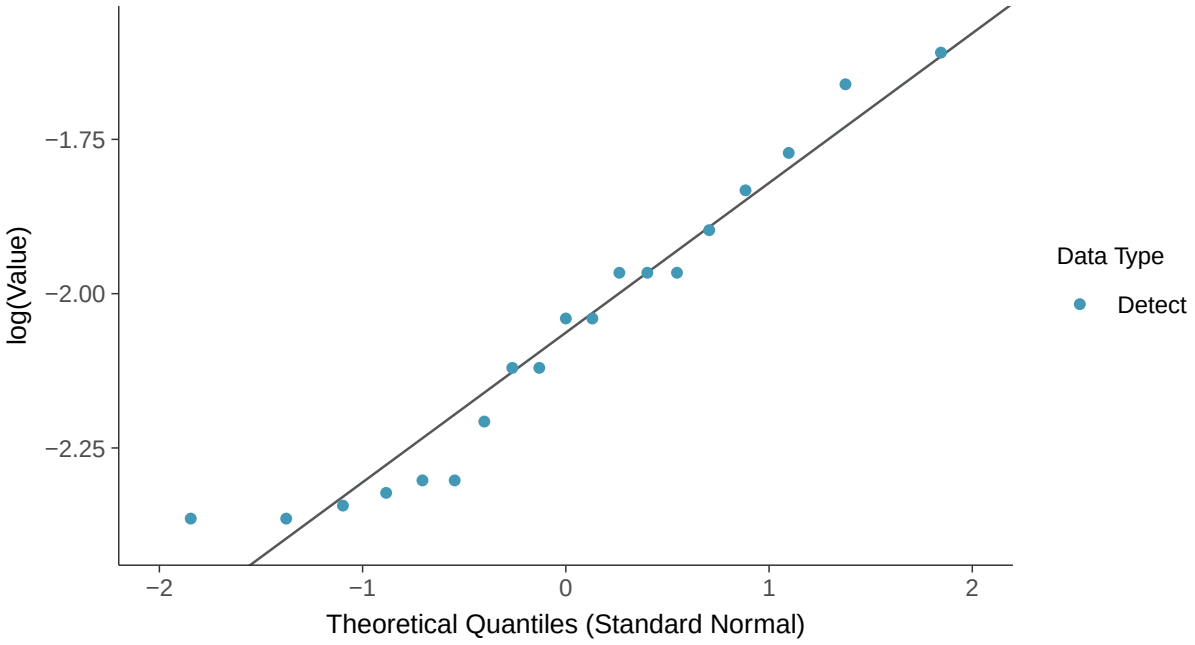
Normal Q-Q plot

Lithium, MW-32 (mg/L)



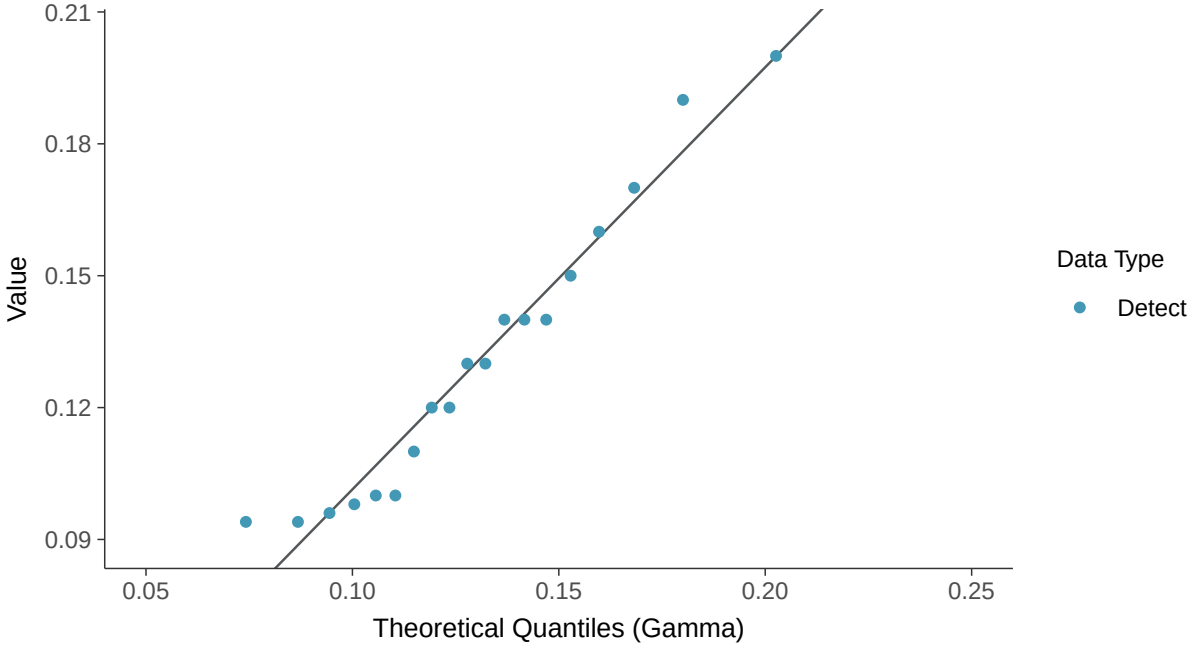
Lognormal Q-Q plot

Lithium, MW-32 (mg/L)



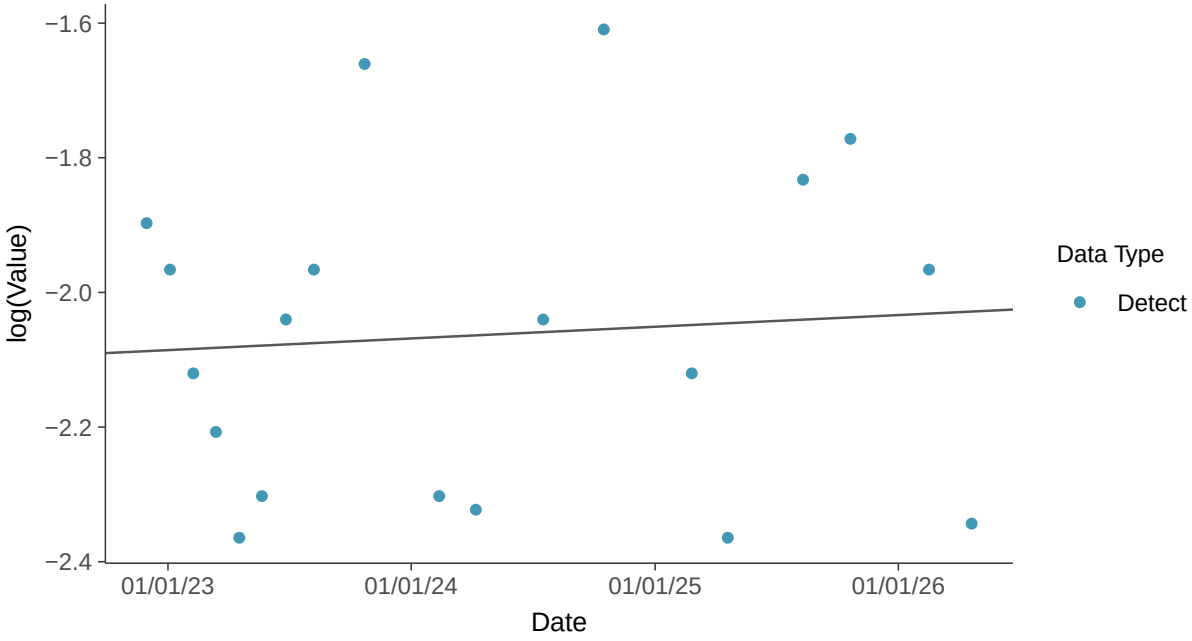
Gamma Q-Q plot

Lithium, MW-32 (mg/L)



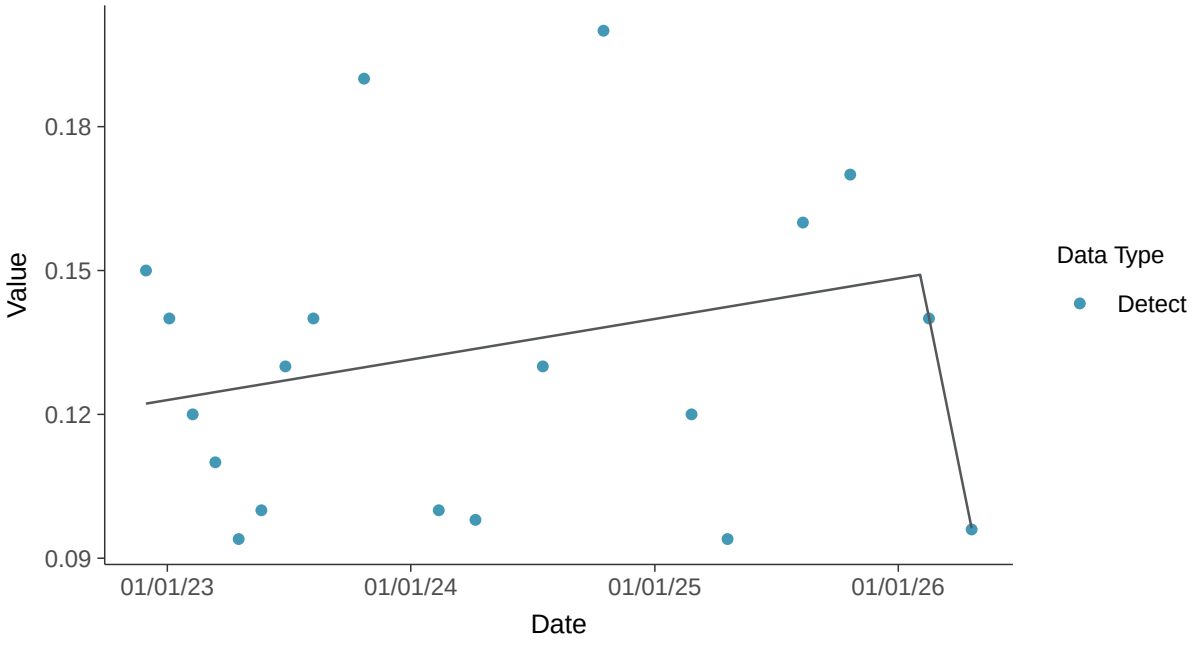
Trend Regression: Lognormal MLE

Lithium, MW-32 (mg/L)



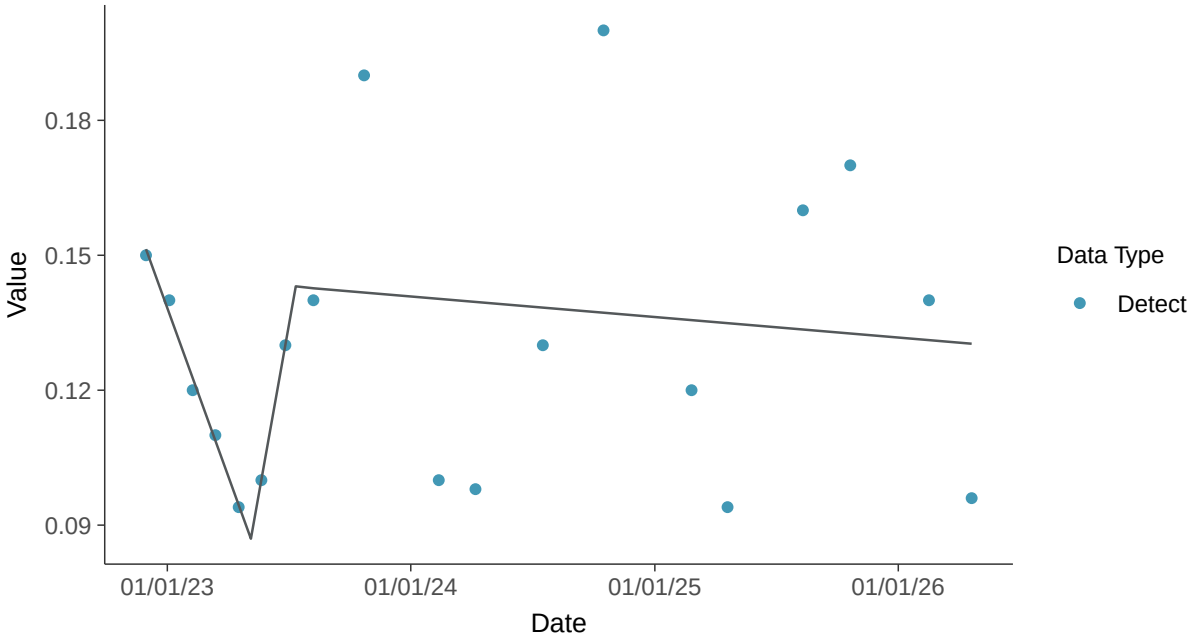
Trend Regression: Piecewise Linear-Linear

Lithium, MW-32 (mg/L)



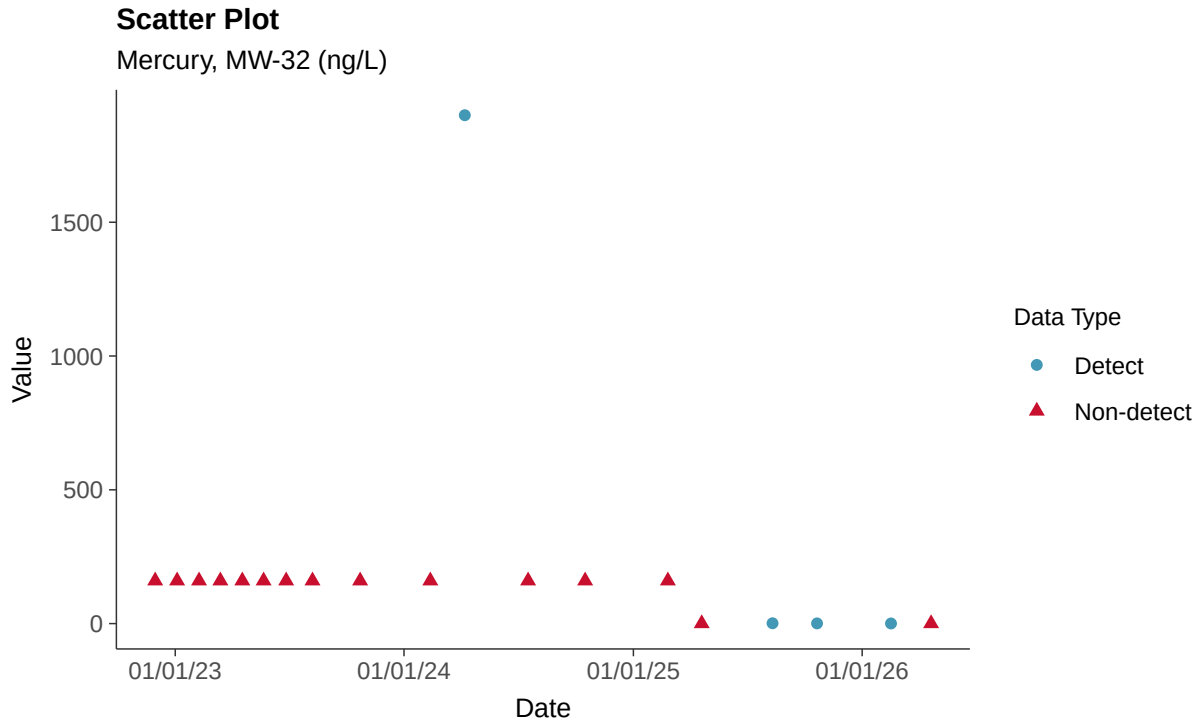
Trend Regression: Piecewise Linear-Linear-Linear

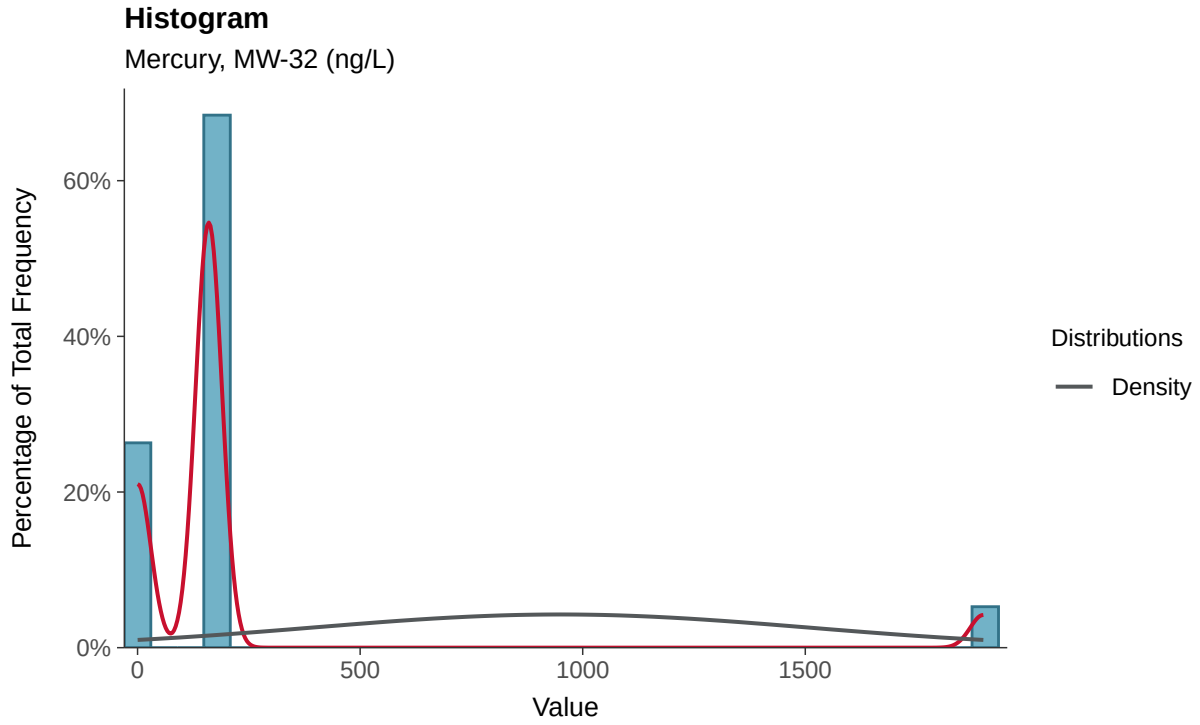
Lithium, MW-32 (mg/L)



Appendix IV: Mercury, MW-32

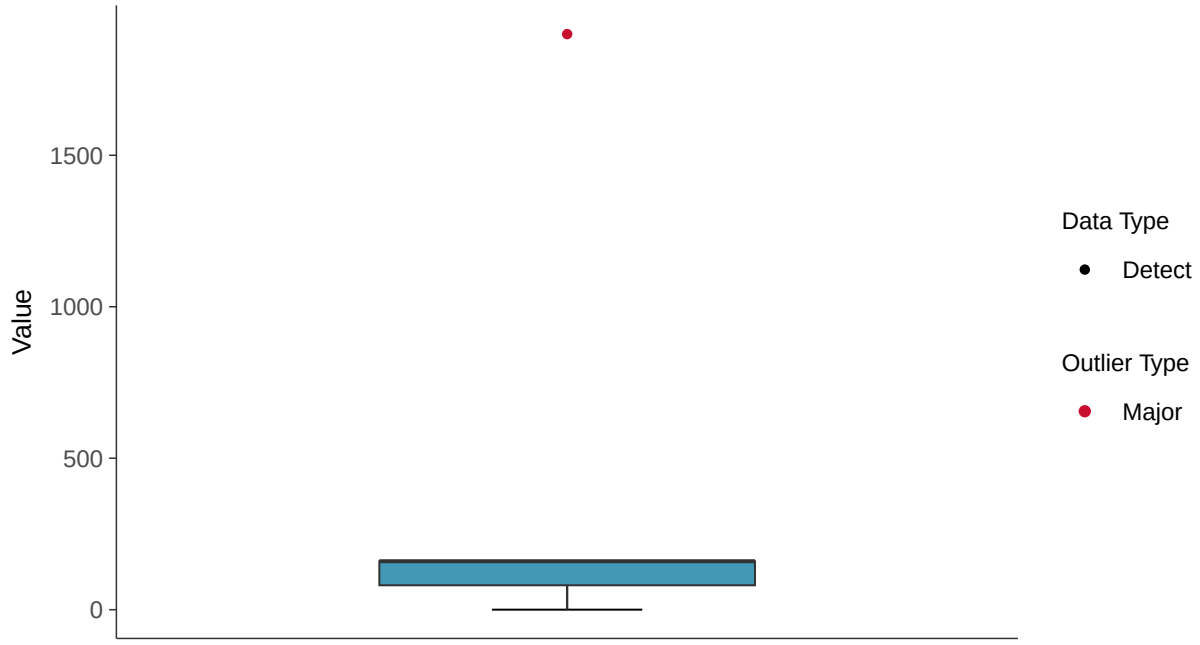
ID: 42_1_4_117





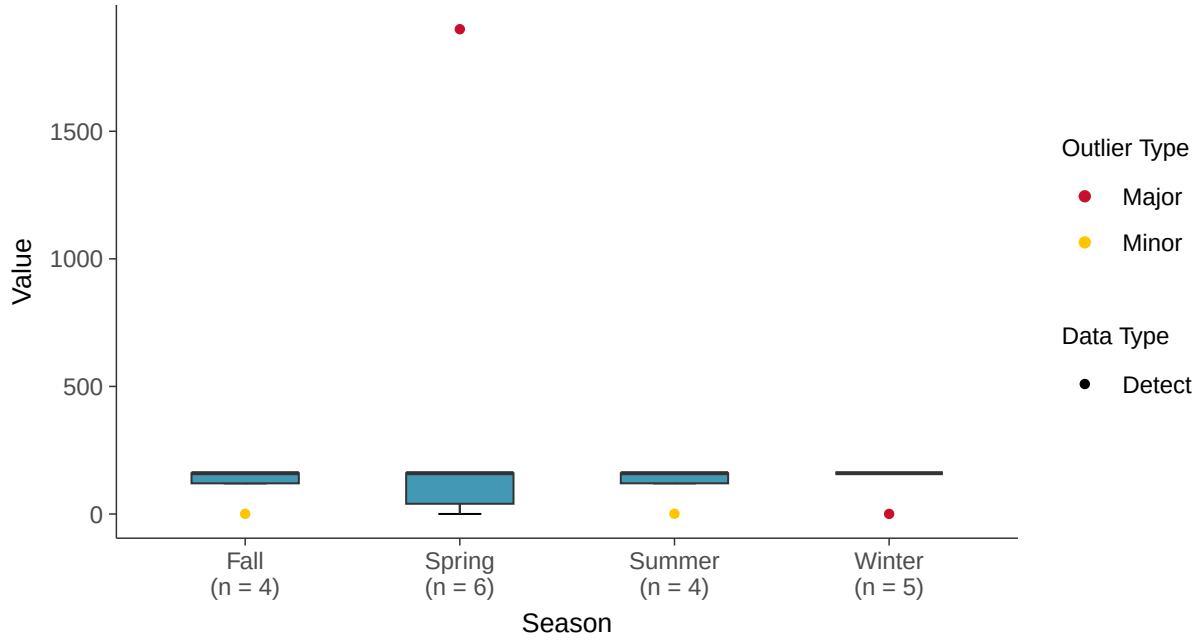
Boxplot

Mercury, MW-32 (ng/L)



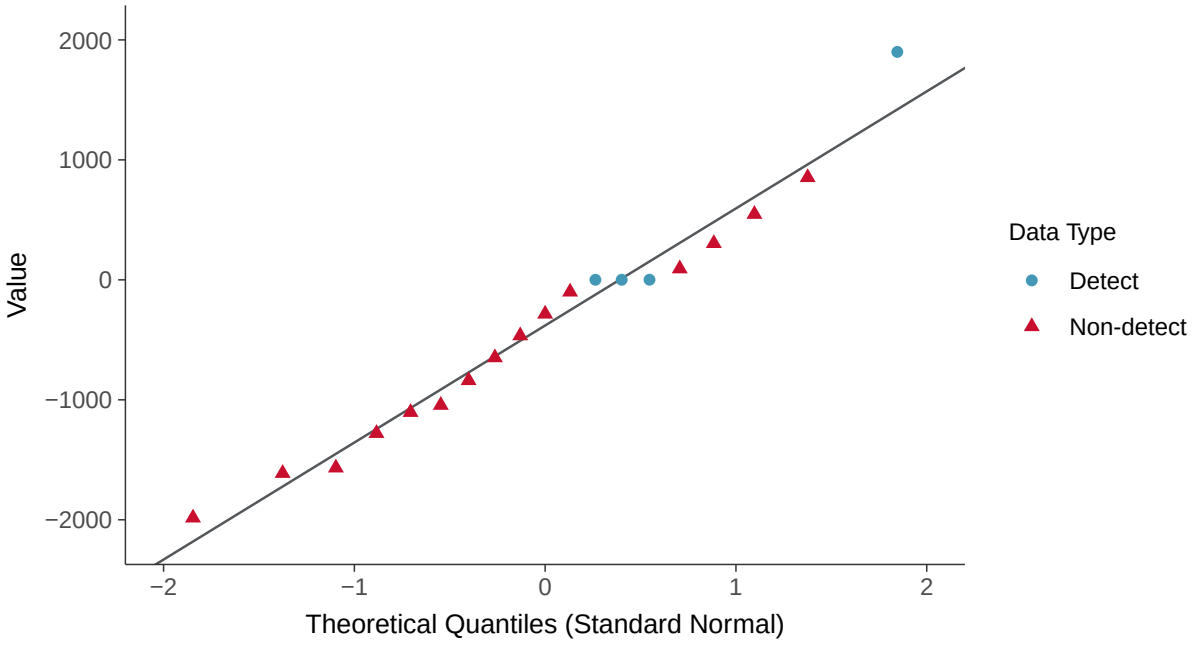
Boxplot by Season

Mercury, MW-32 (ng/L)



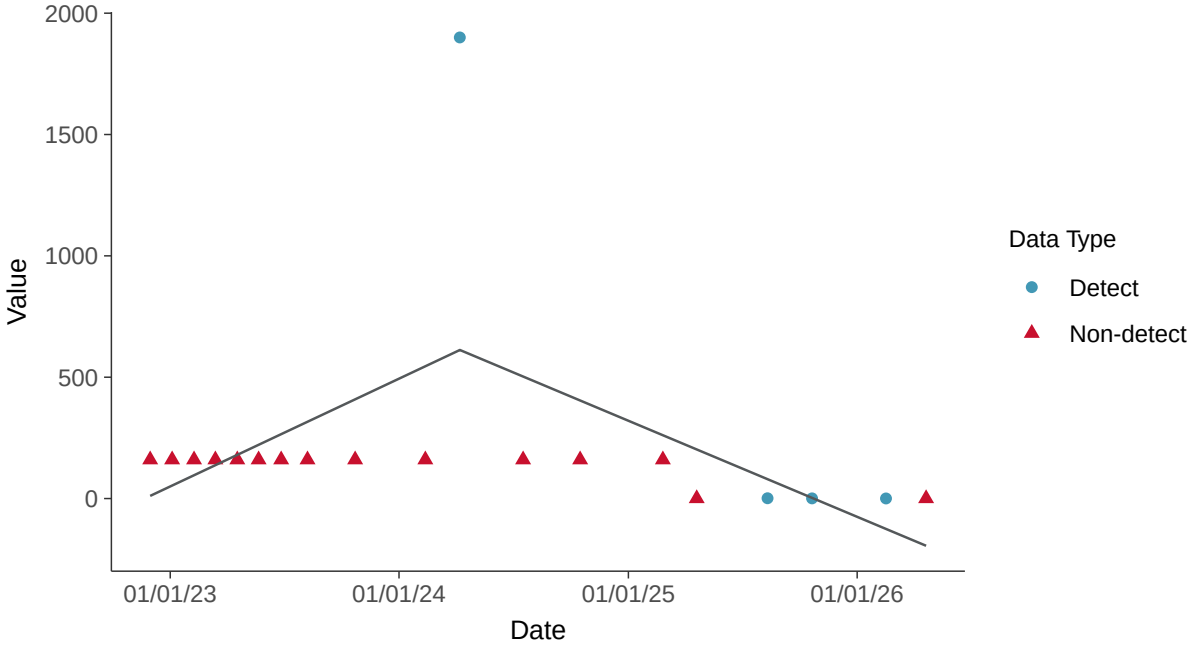
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-32 (ng/L)



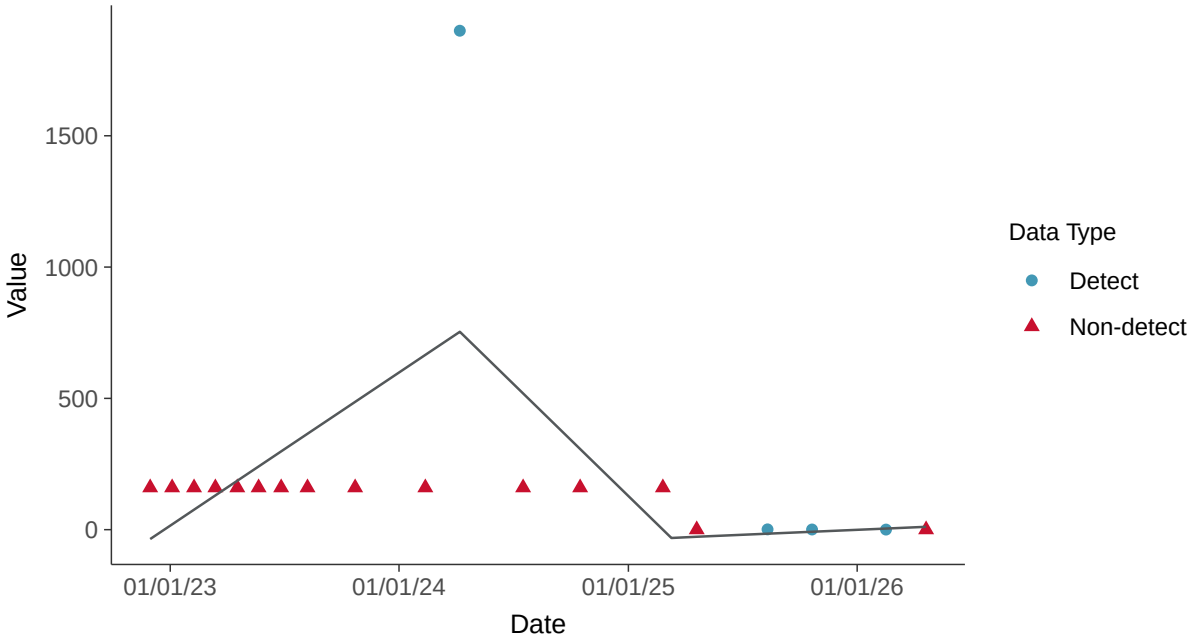
Trend Regression: Piecewise Linear-Linear

Mercury, MW-32 (ng/L)



Trend Regression: Piecewise Linear-Linear-Linear

Mercury, MW-32 (ng/L)

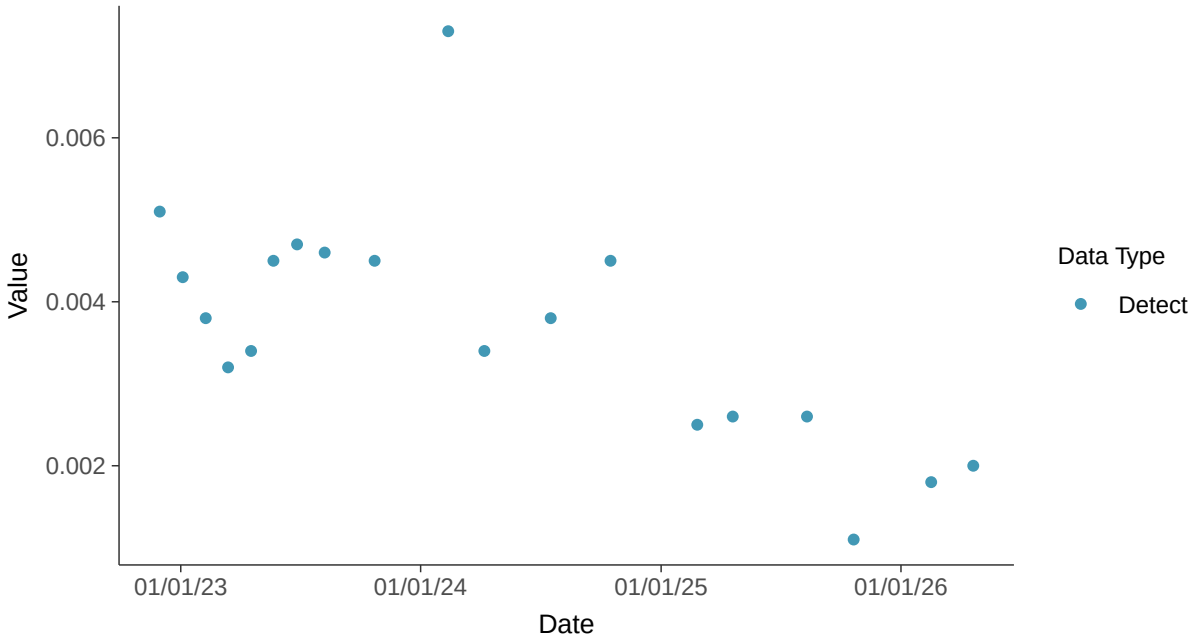


Appendix IV: Molybdenum, MW-32

ID: 42_1_4_118

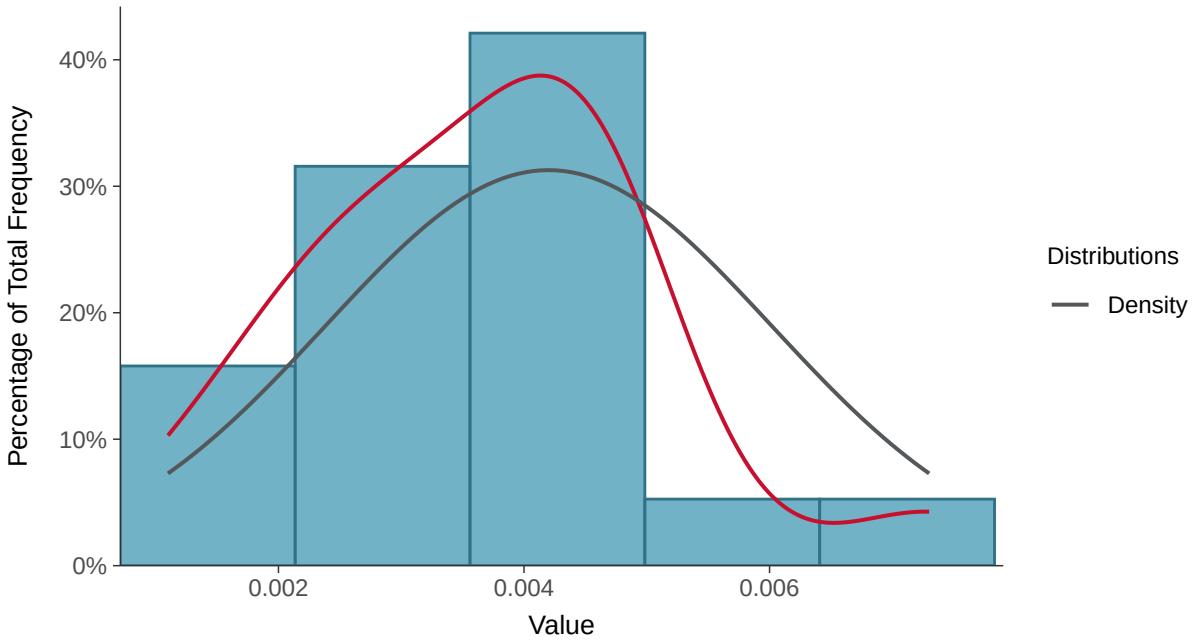
Scatter Plot

Molybdenum, MW-32 (mg/L)



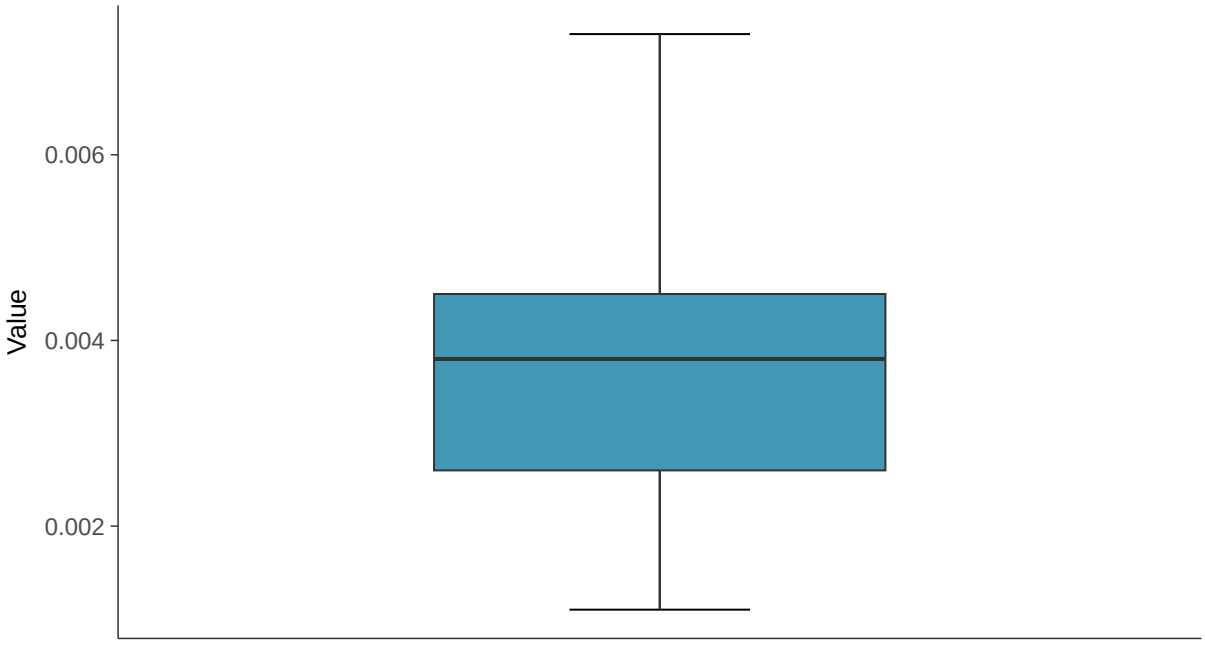
Histogram

Molybdenum, MW-32 (mg/L)



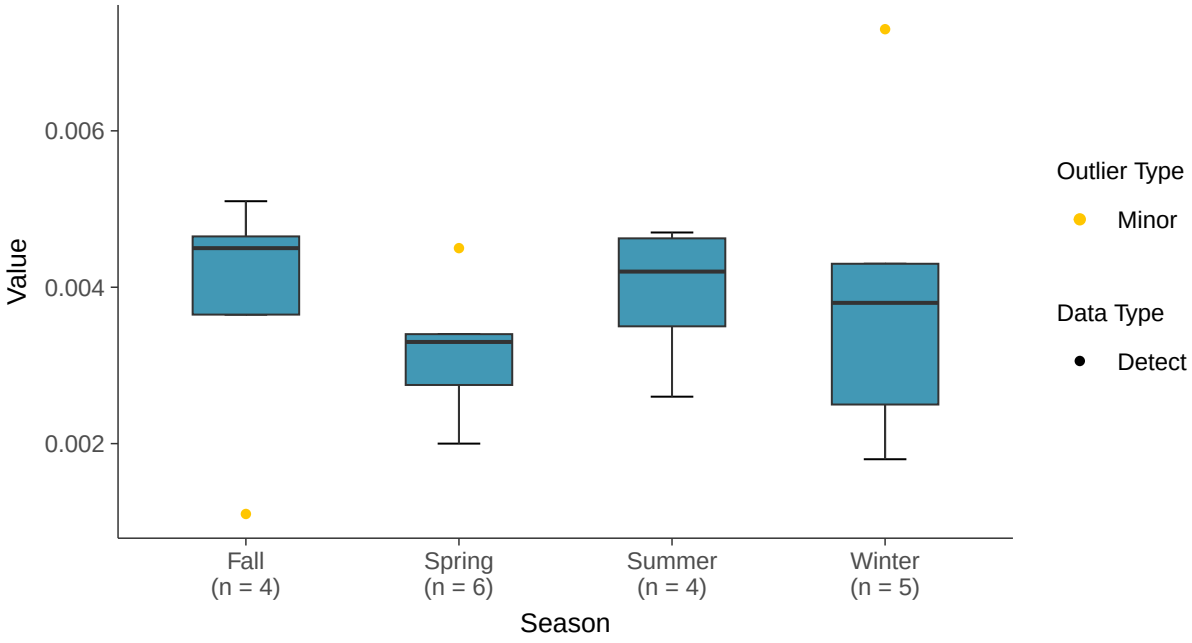
Boxplot

Molybdenum, MW-32 (mg/L)



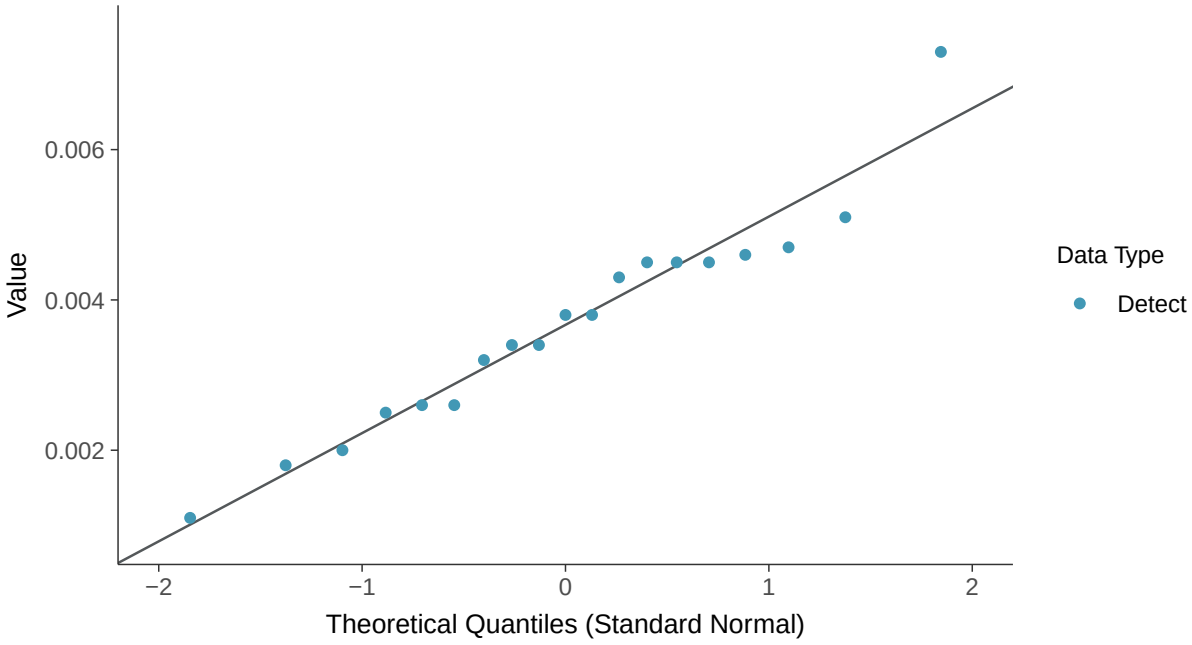
Boxplot by Season

Molybdenum, MW-32 (mg/L)



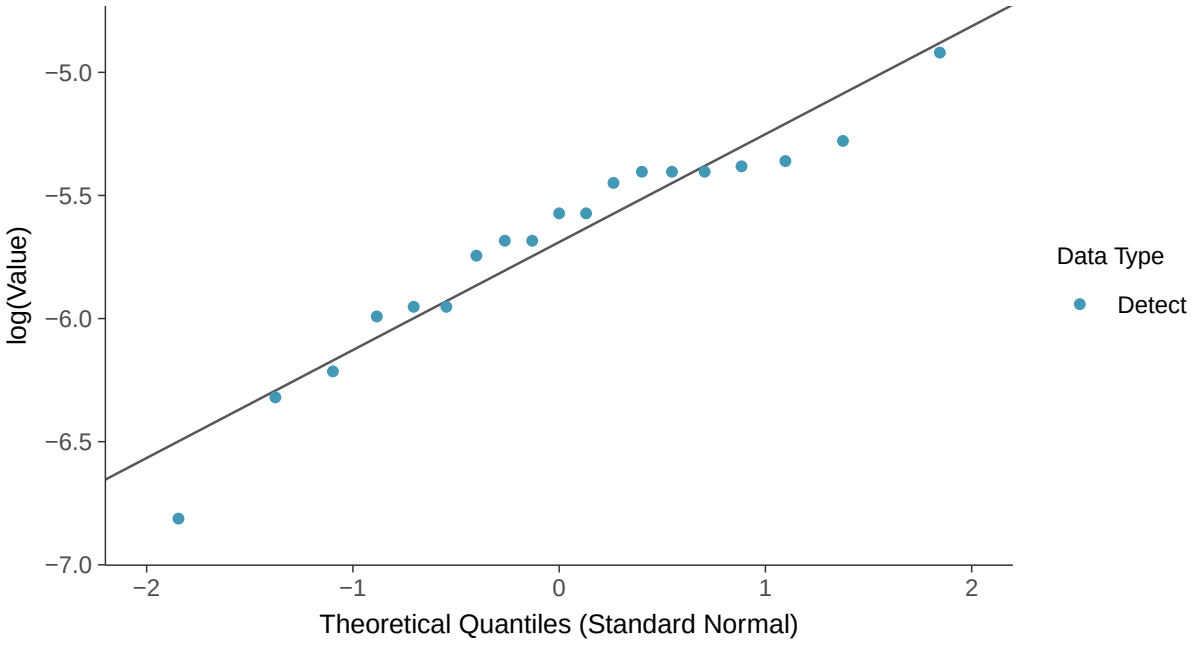
Normal Q-Q plot

Molybdenum, MW-32 (mg/L)



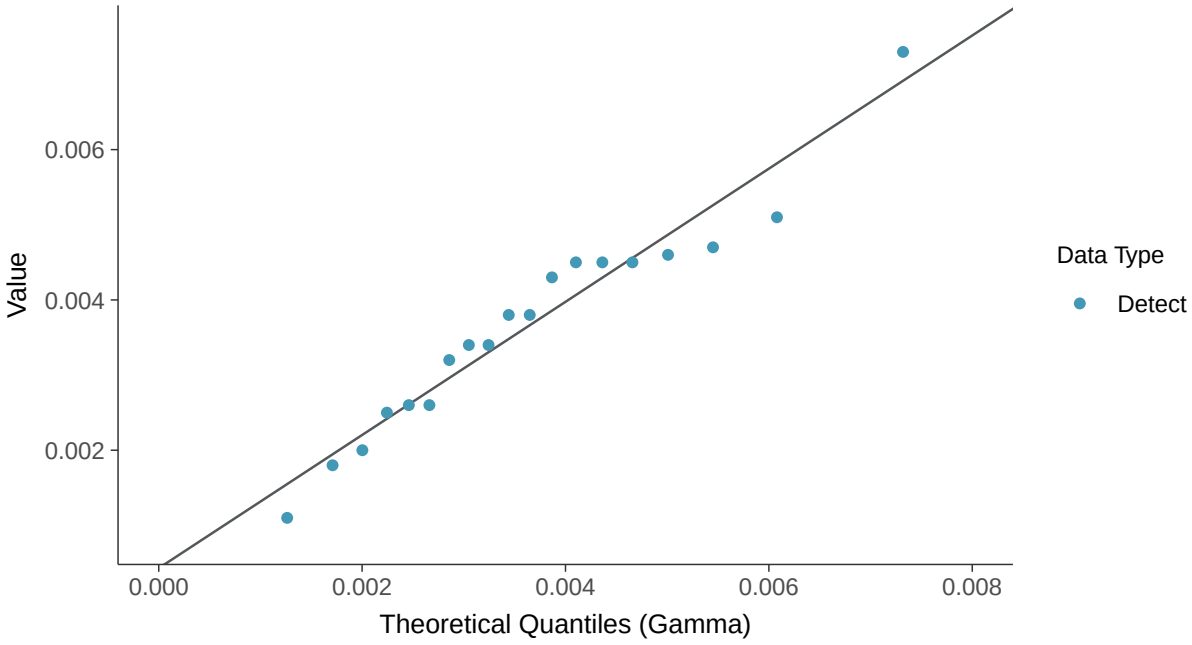
Lognormal Q-Q plot

Molybdenum, MW-32 (mg/L)



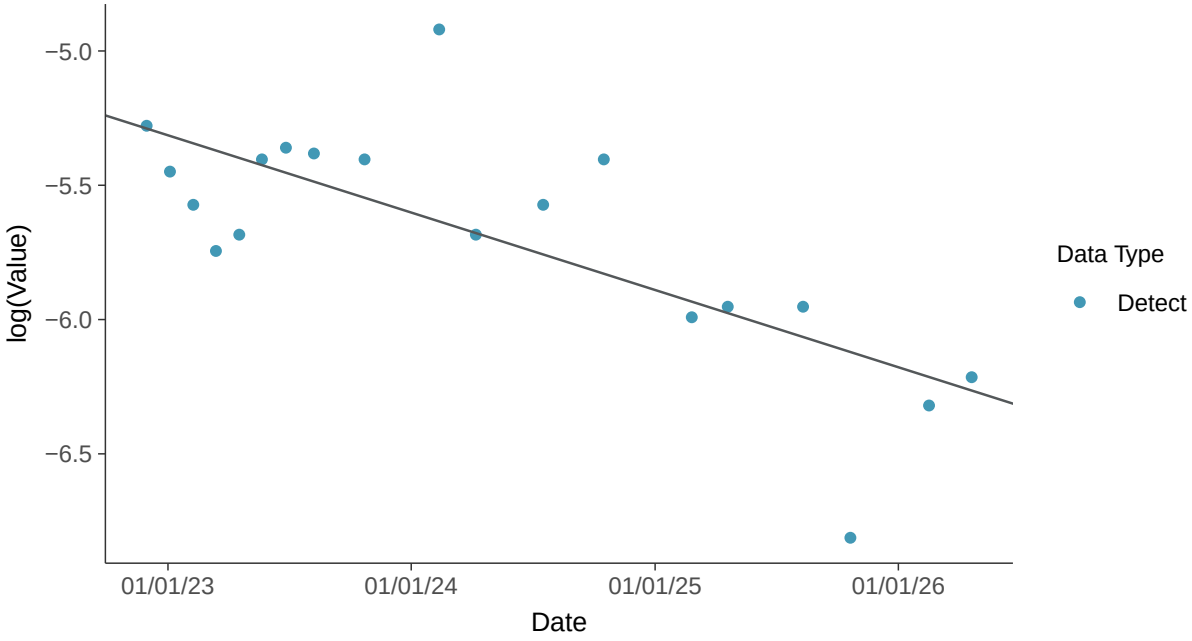
Gamma Q-Q plot

Molybdenum, MW-32 (mg/L)



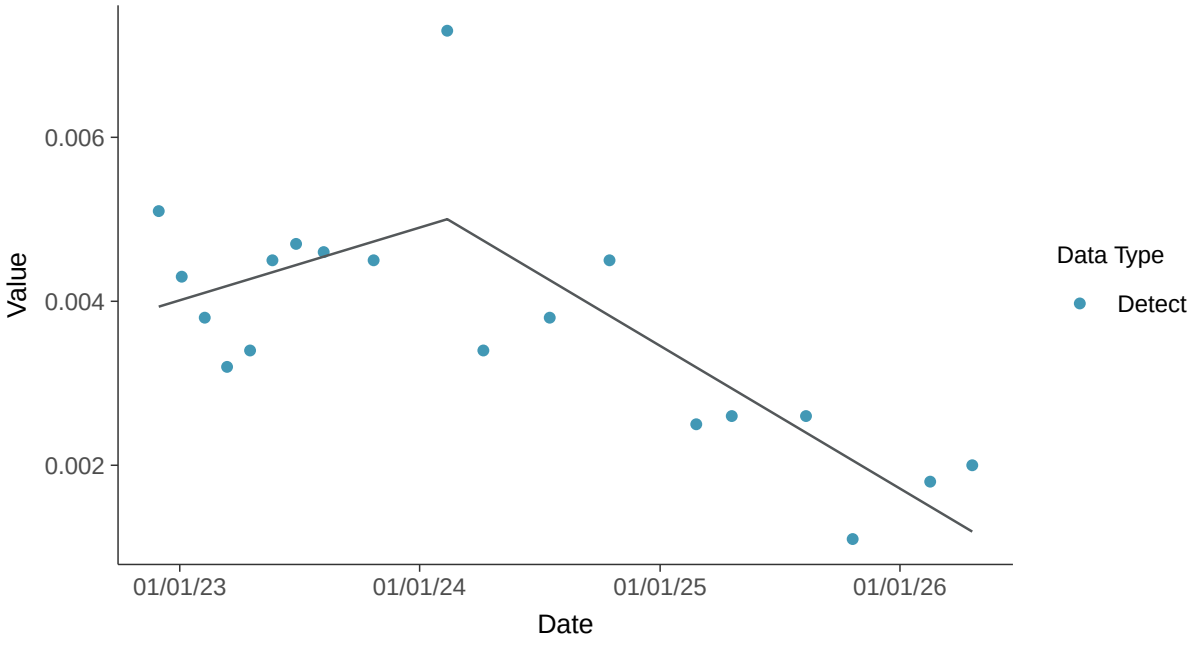
Trend Regression: Lognormal MLE

Molybdenum, MW-32 (mg/L)



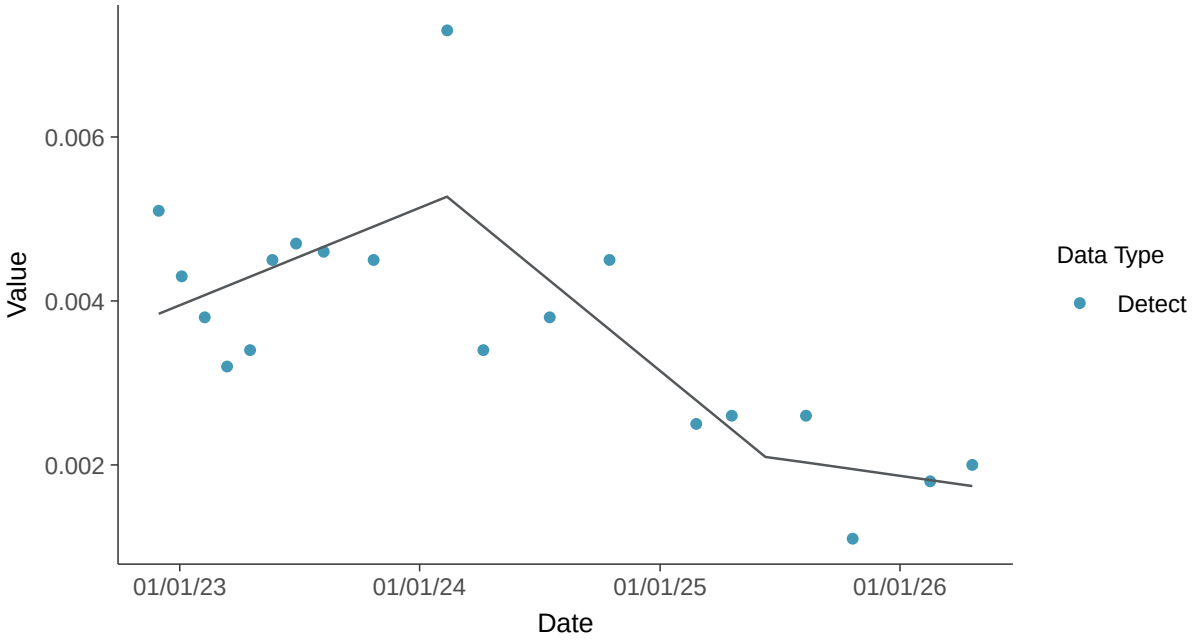
Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Molybdenum, MW-32 (mg/L)

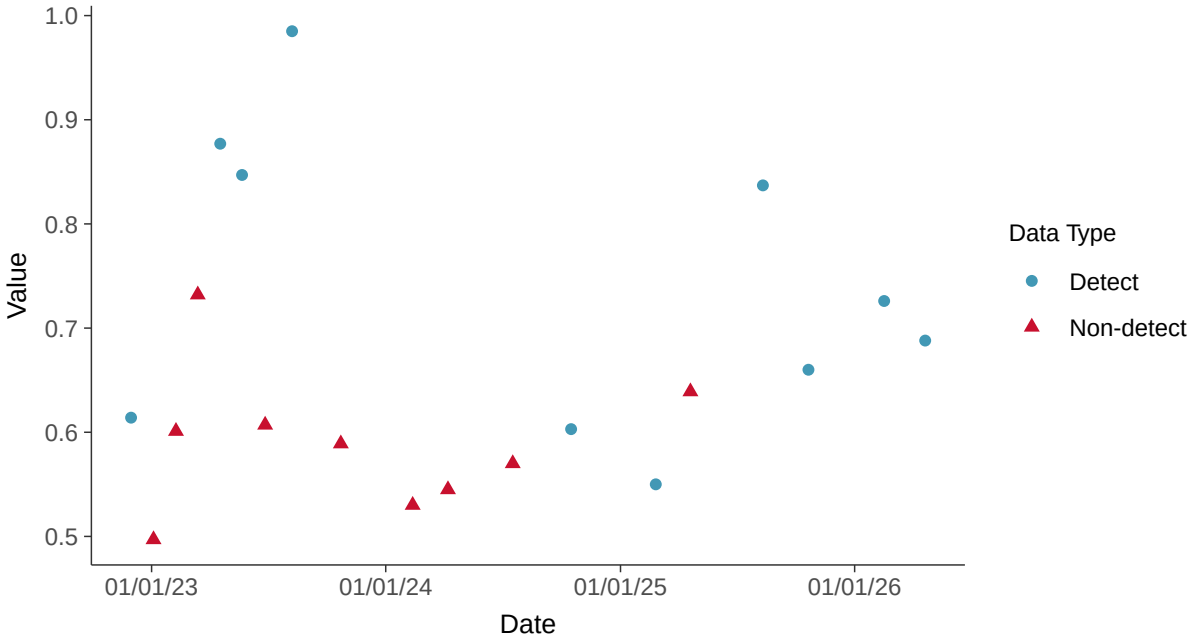


Appendix IV: Radium 226 and 228, MW-32

ID: 42_1_4_121

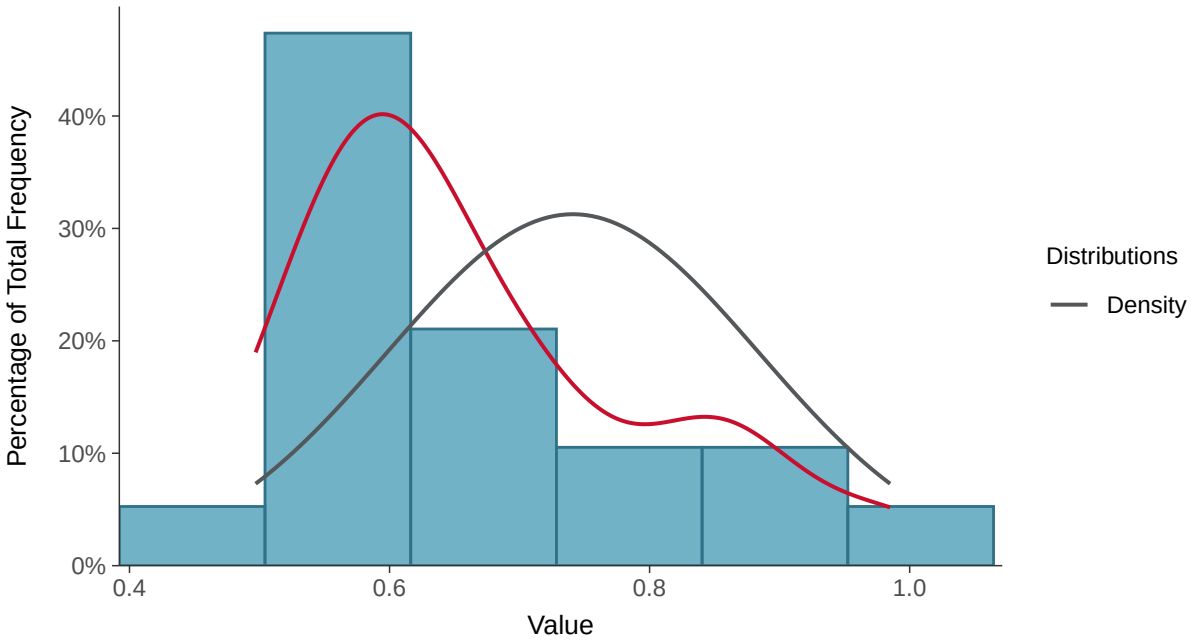
Scatter Plot

Radium 226 and 228, MW-32 (pCi/L)



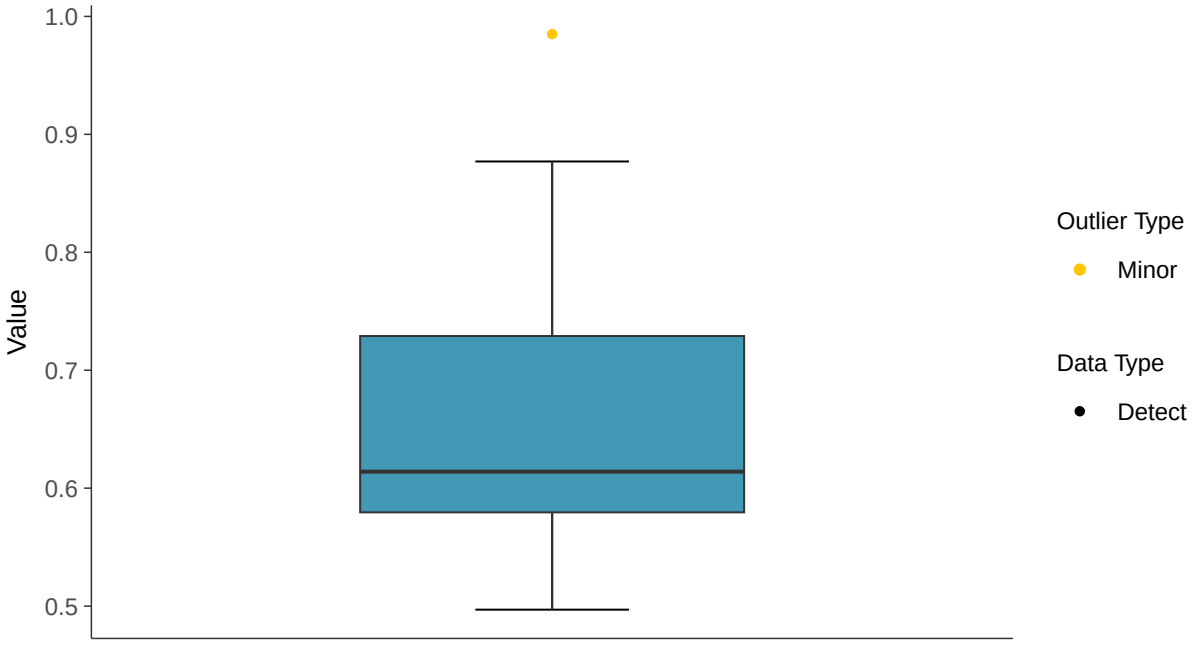
Histogram

Radium 226 and 228, MW-32 (pCi/L)



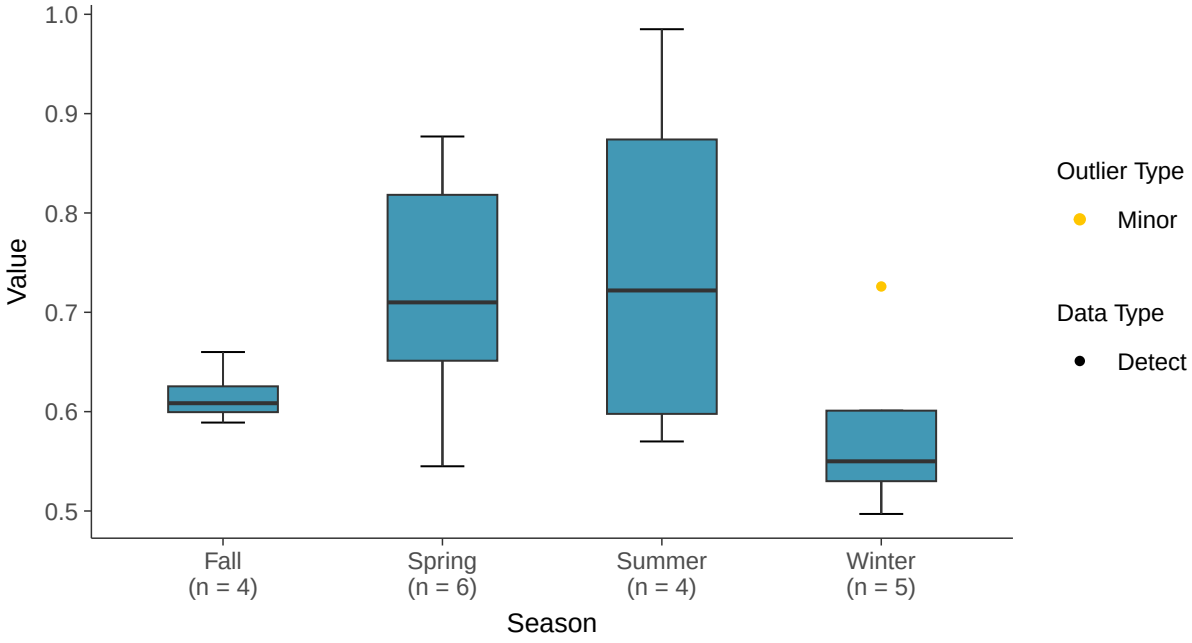
Boxplot

Radium 226 and 228, MW-32 (pCi/L)



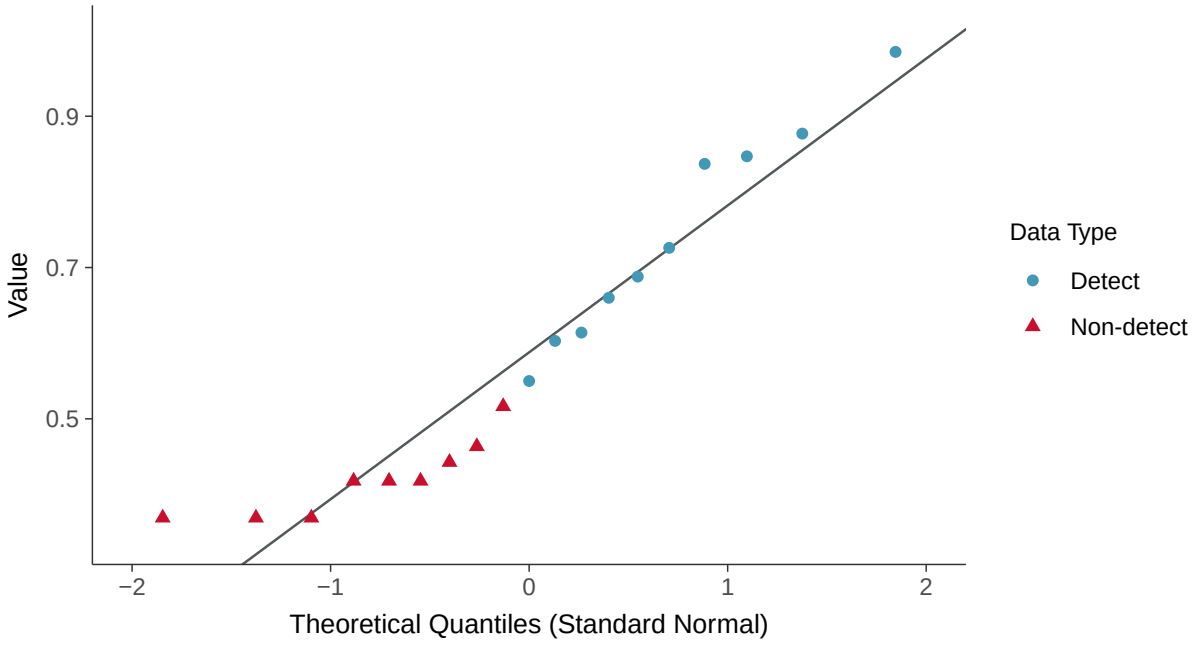
Boxplot by Season

Radium 226 and 228, MW-32 (pCi/L)



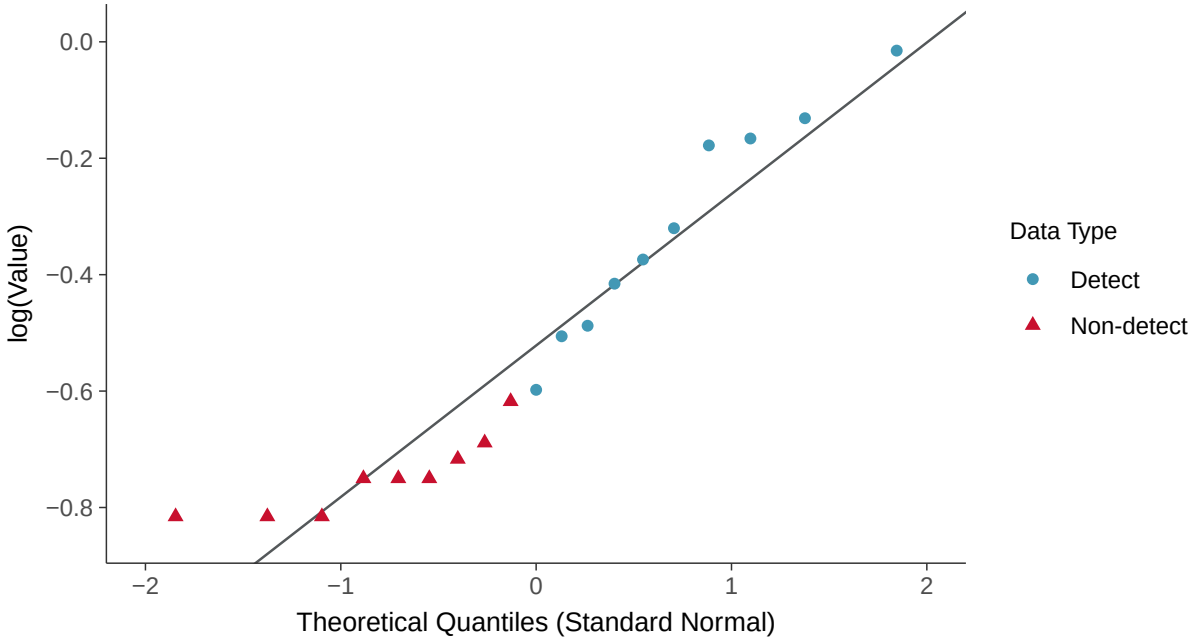
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



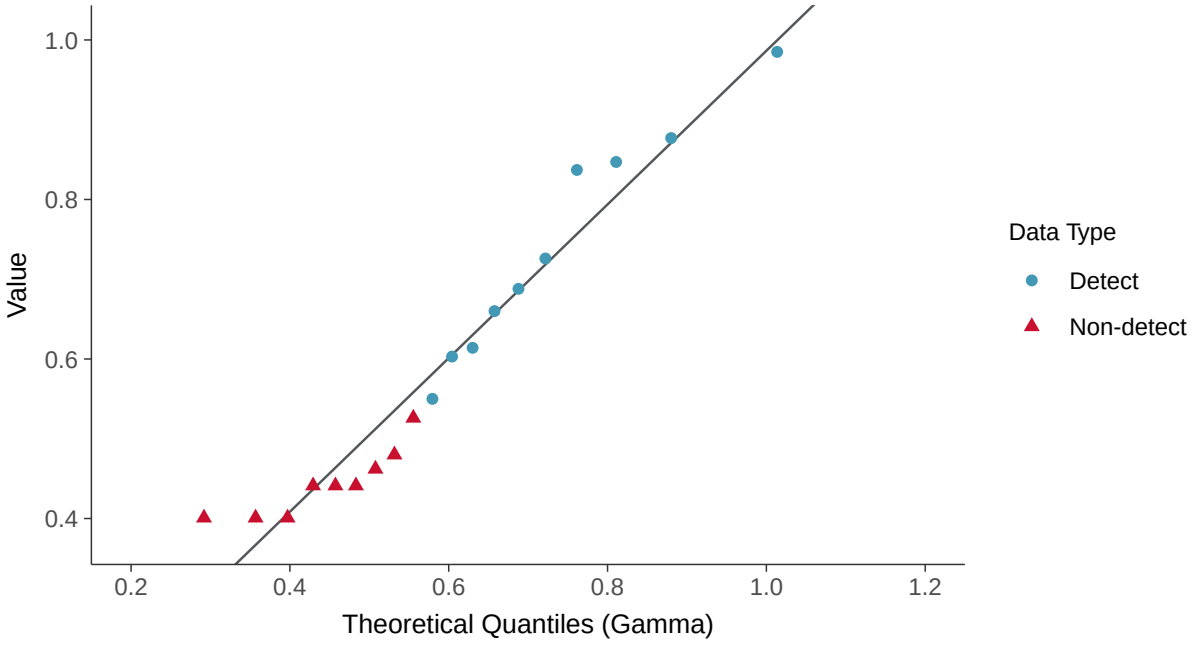
Lognormal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



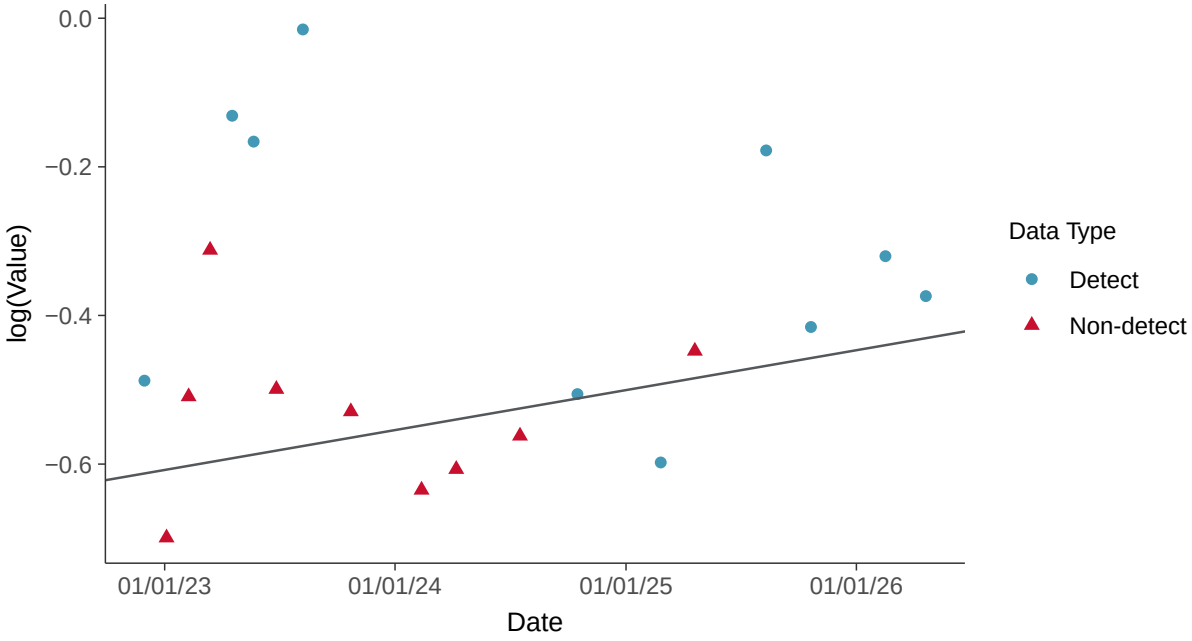
Gamma Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-32 (pCi/L)



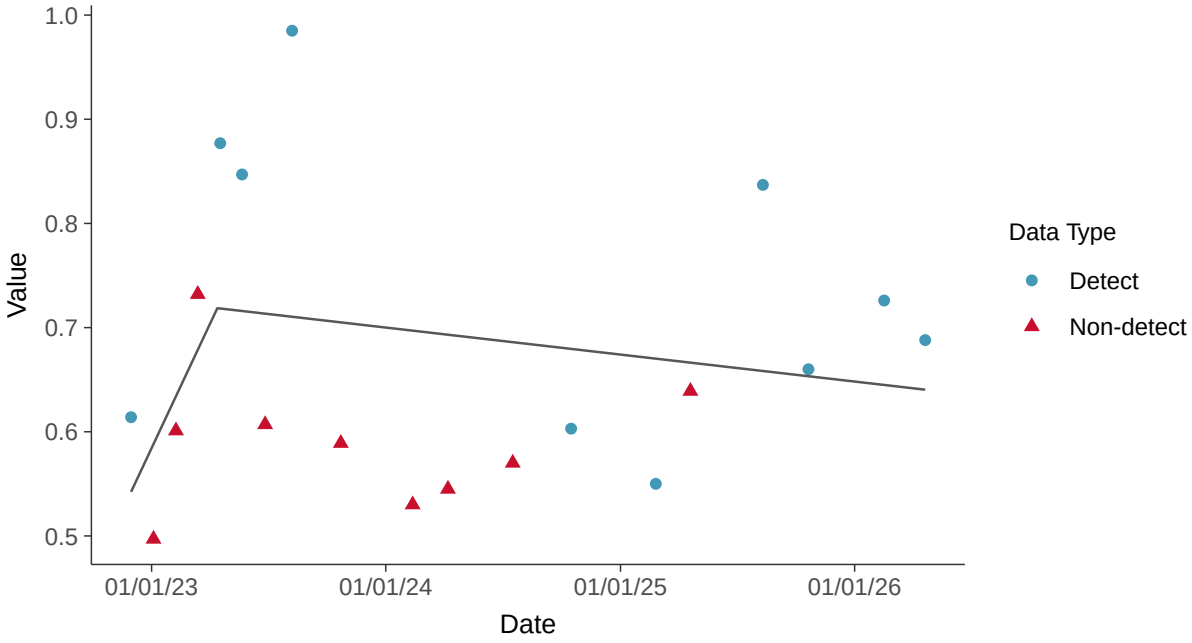
Trend Regression: Lognormal MLE

Radium 226 and 228, MW-32 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-32 (pCi/L)

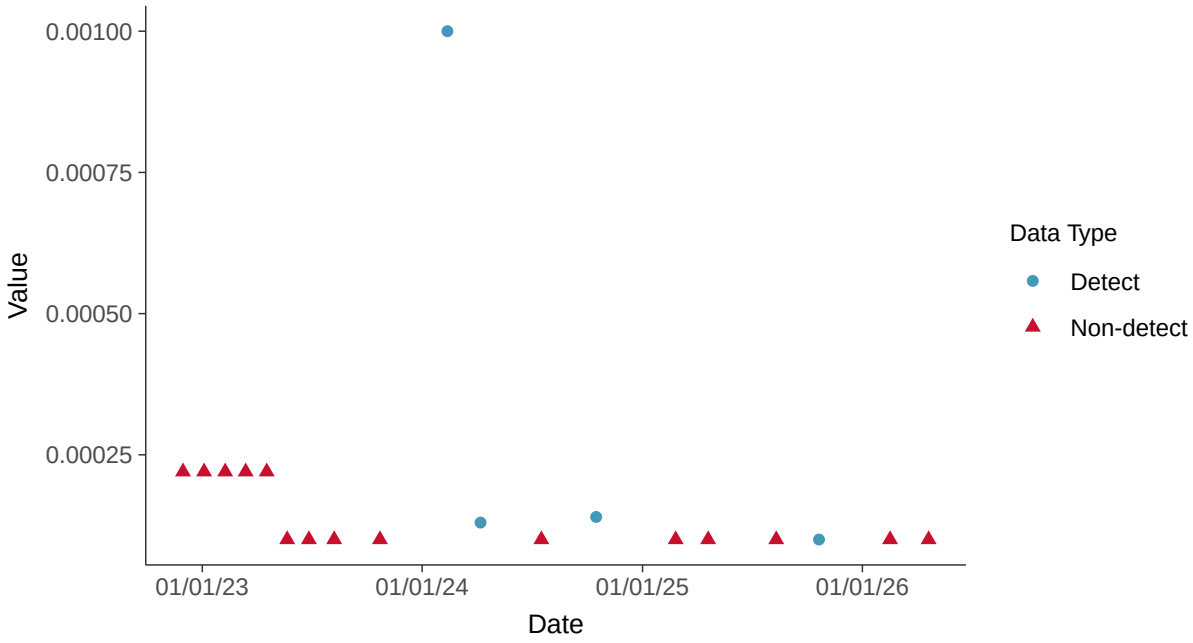


Appendix IV: Selenium, MW-32

ID: 42_1_4_122

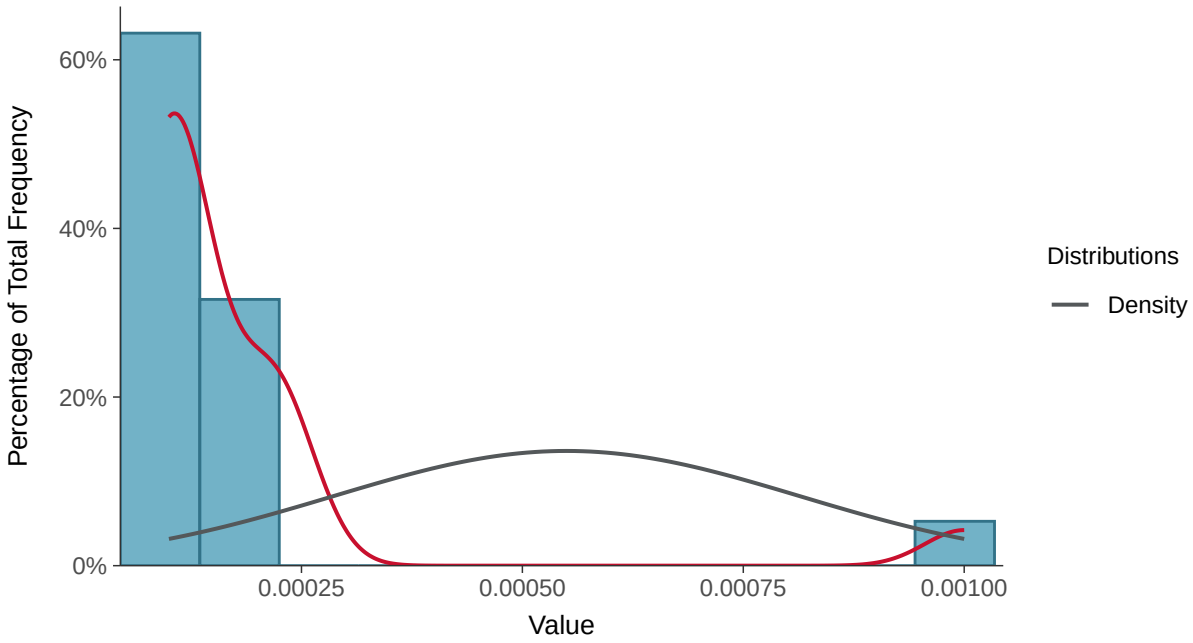
Scatter Plot

Selenium, MW-32 (mg/L)



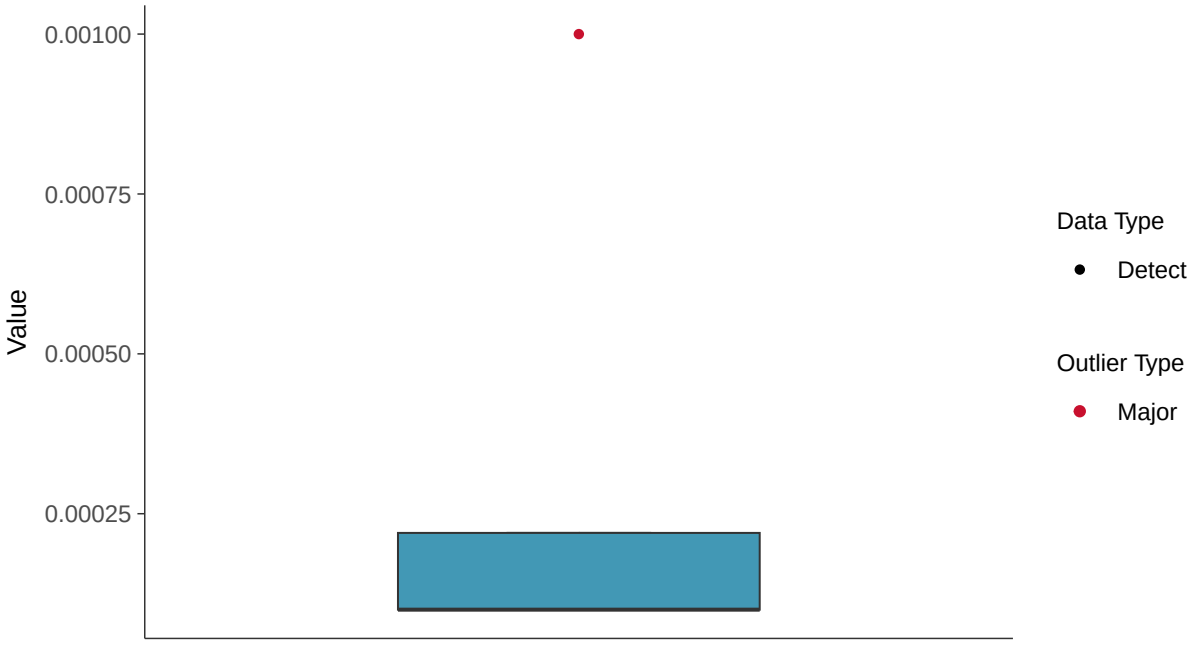
Histogram

Selenium, MW-32 (mg/L)



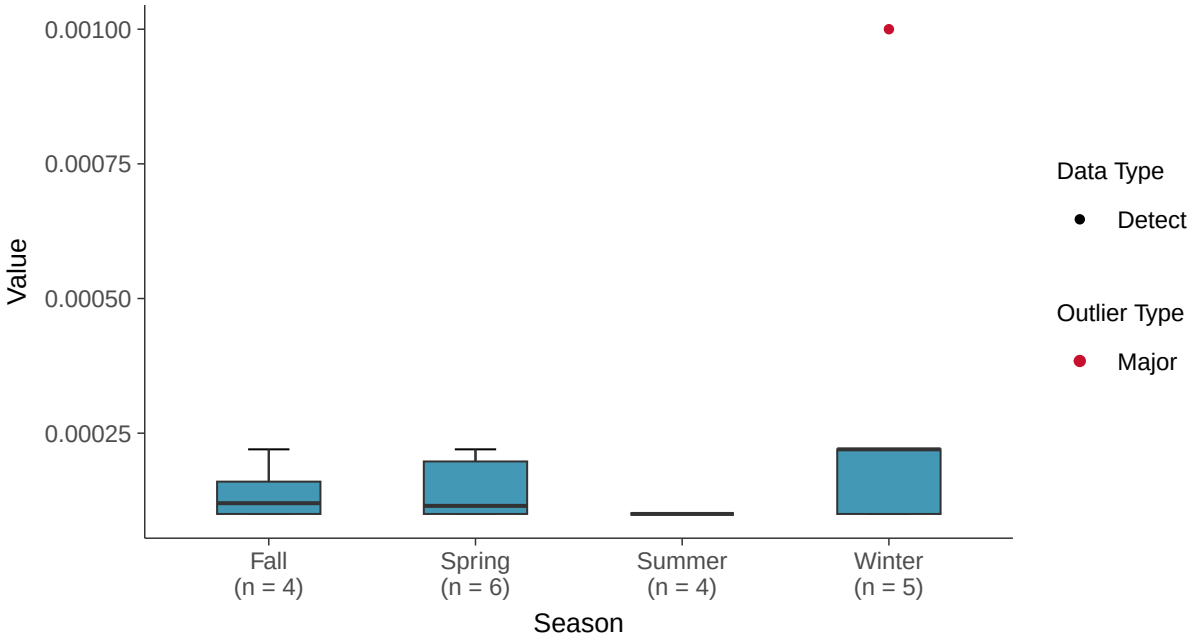
Boxplot

Selenium, MW-32 (mg/L)



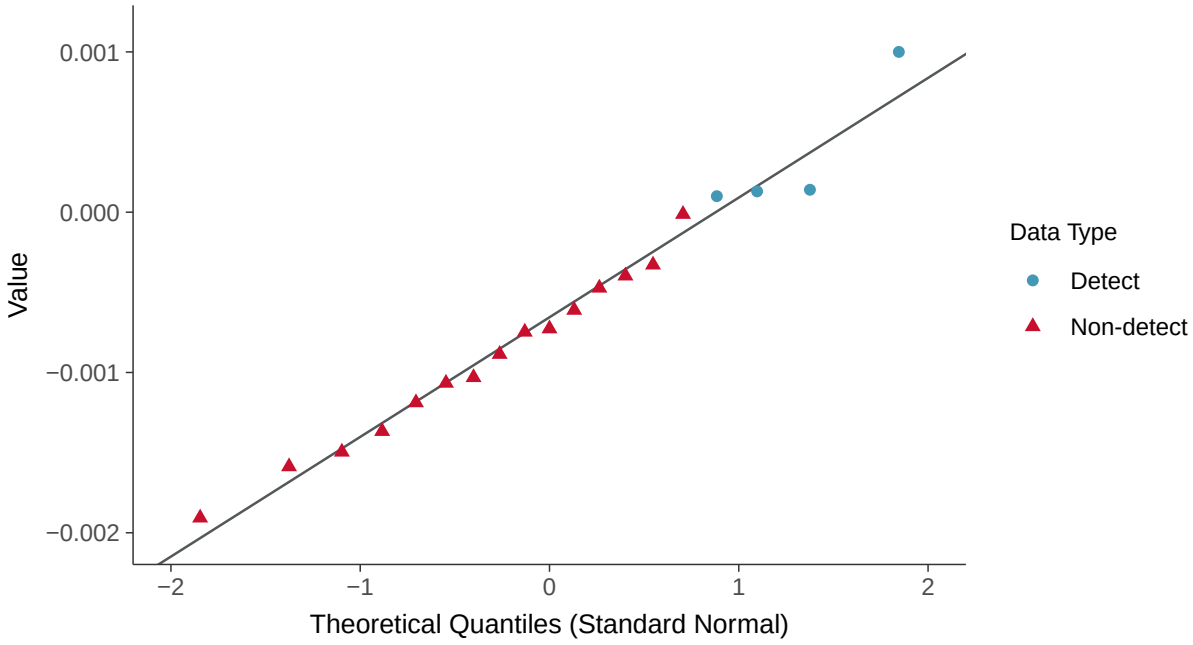
Boxplot by Season

Selenium, MW-32 (mg/L)



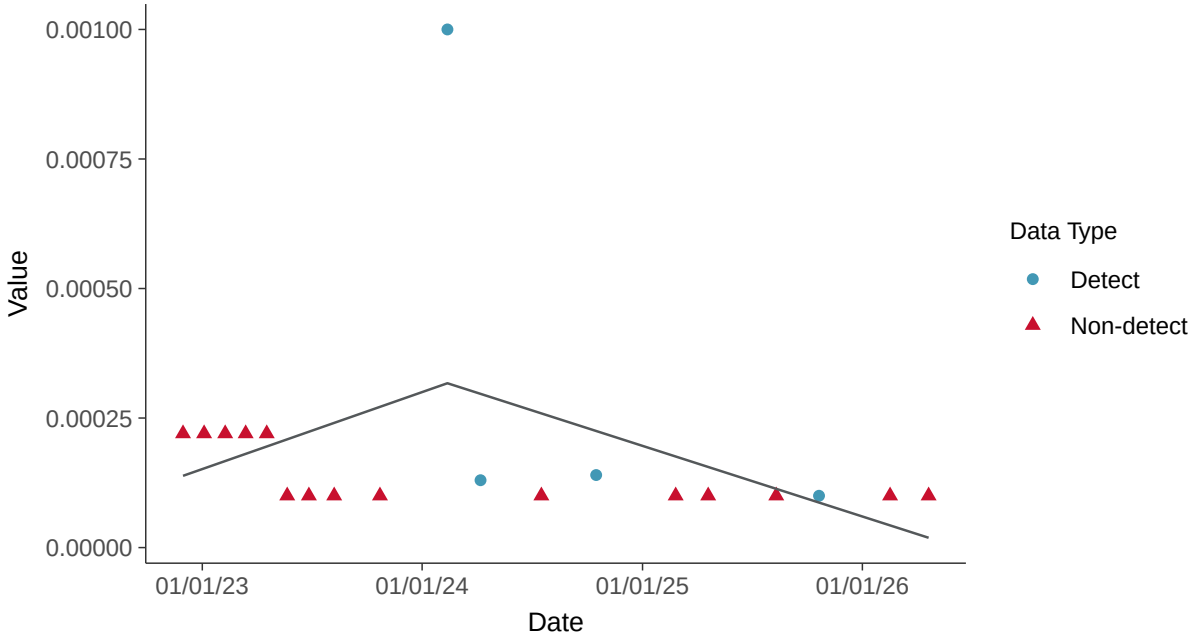
Normal Q-Q plot using ROS Imputed Estimates

Selenium, MW-32 (mg/L)



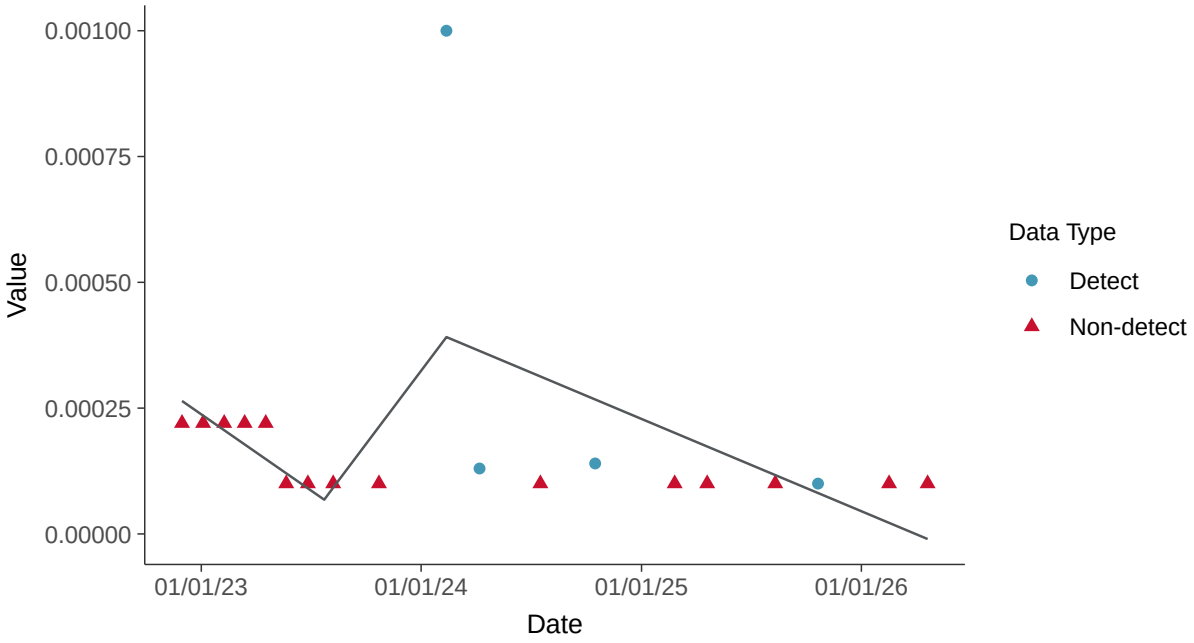
Trend Regression: Piecewise Linear-Linear

Selenium, MW-32 (mg/L)



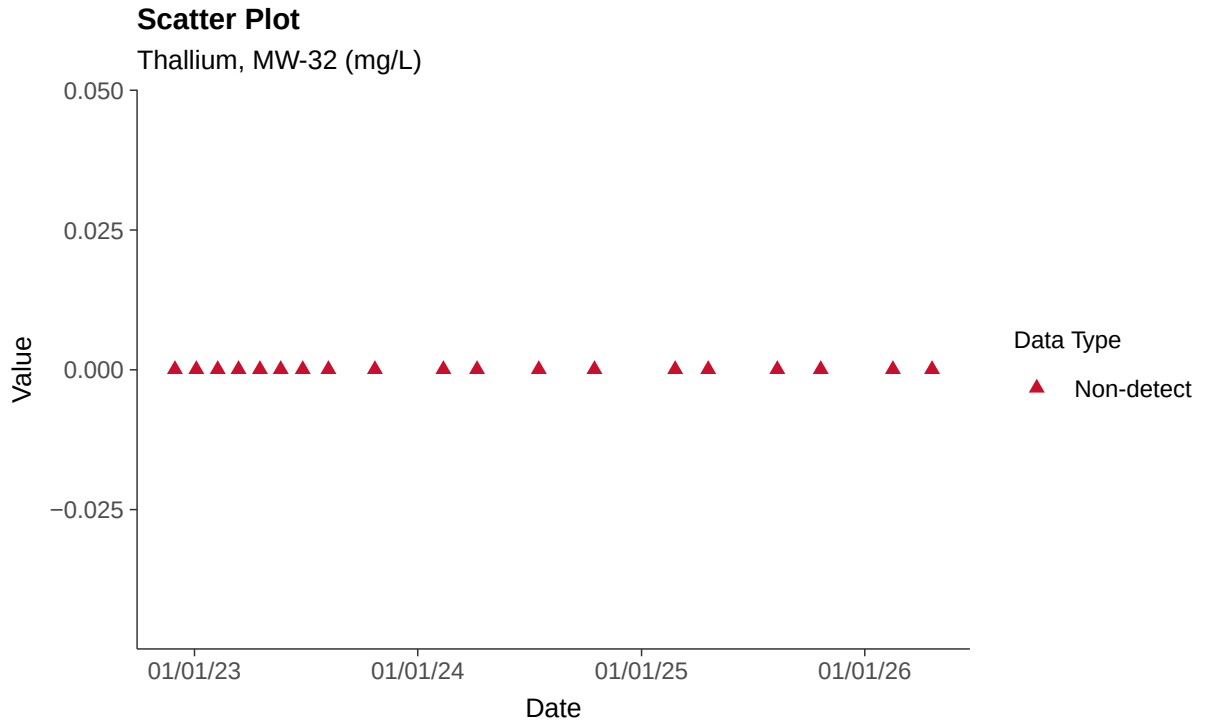
Trend Regression: Piecewise Linear-Linear-Linear

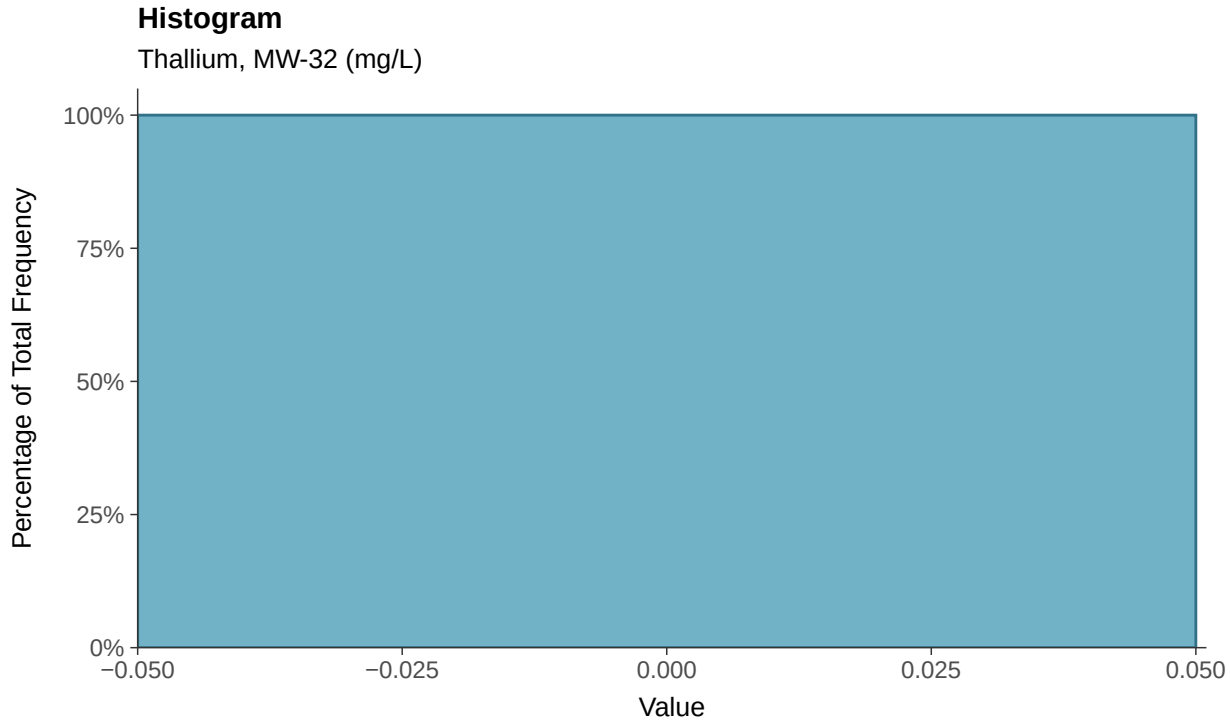
Selenium, MW-32 (mg/L)



Appendix IV: Thallium, MW-32

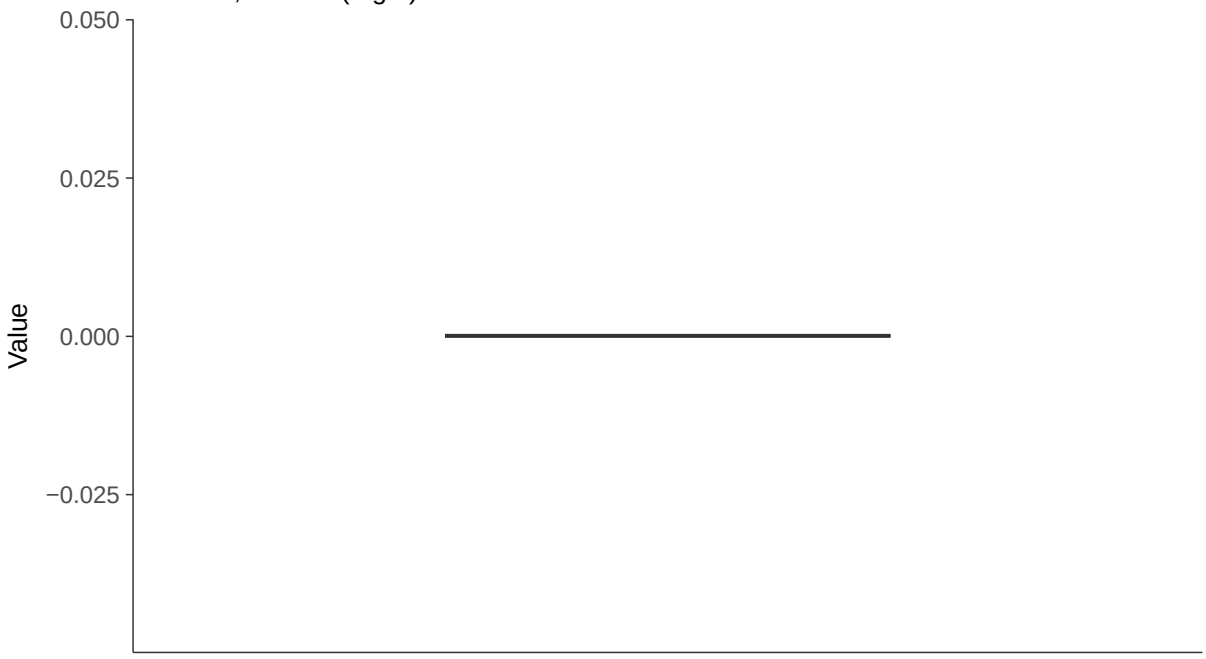
ID: 42_1_4_125





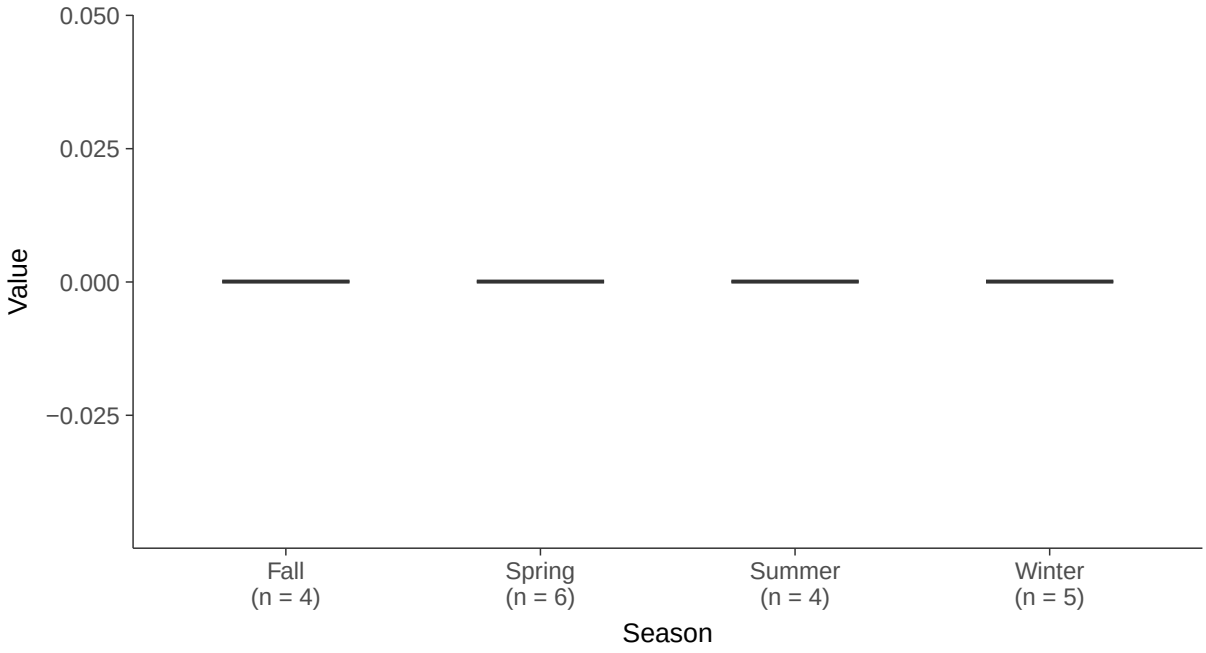
Boxplot

Thallium, MW-32 (mg/L)



Boxplot by Season

Thallium, MW-32 (mg/L)

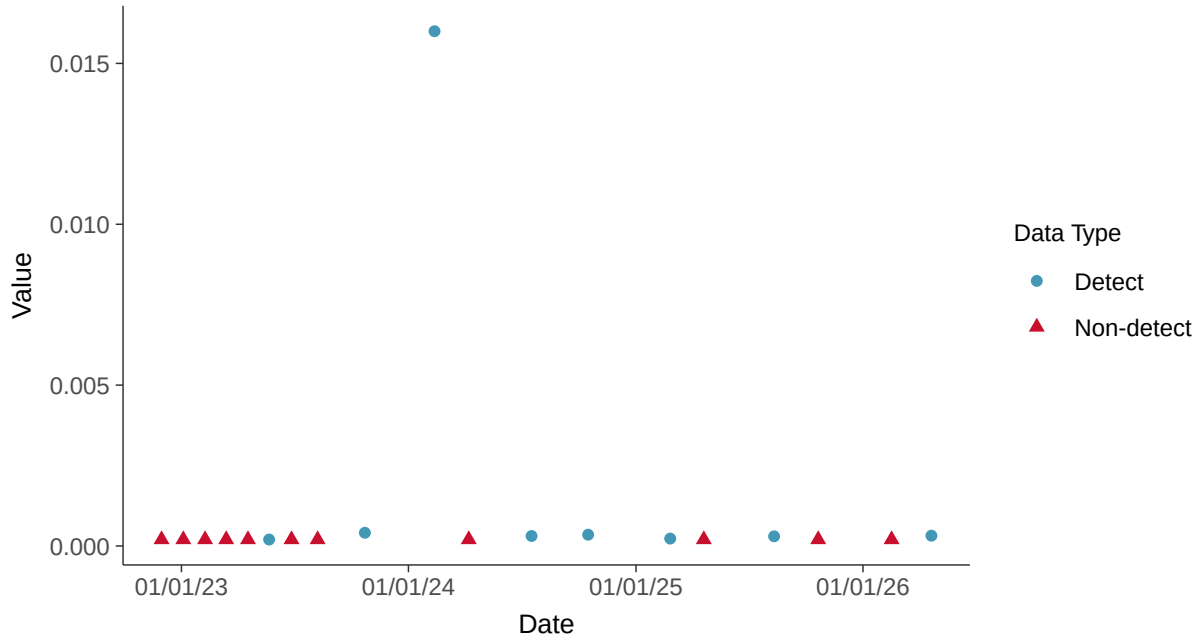


Part 115: Copper, MW-32

ID: 42_1_5_111

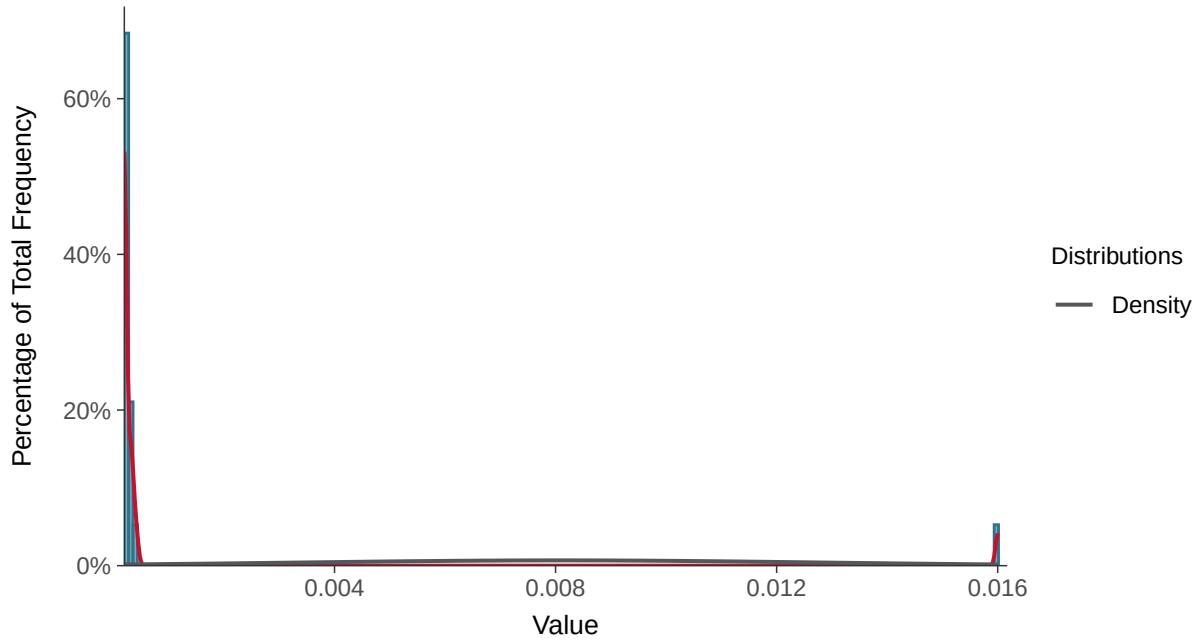
Scatter Plot

Copper, MW-32 (mg/L)



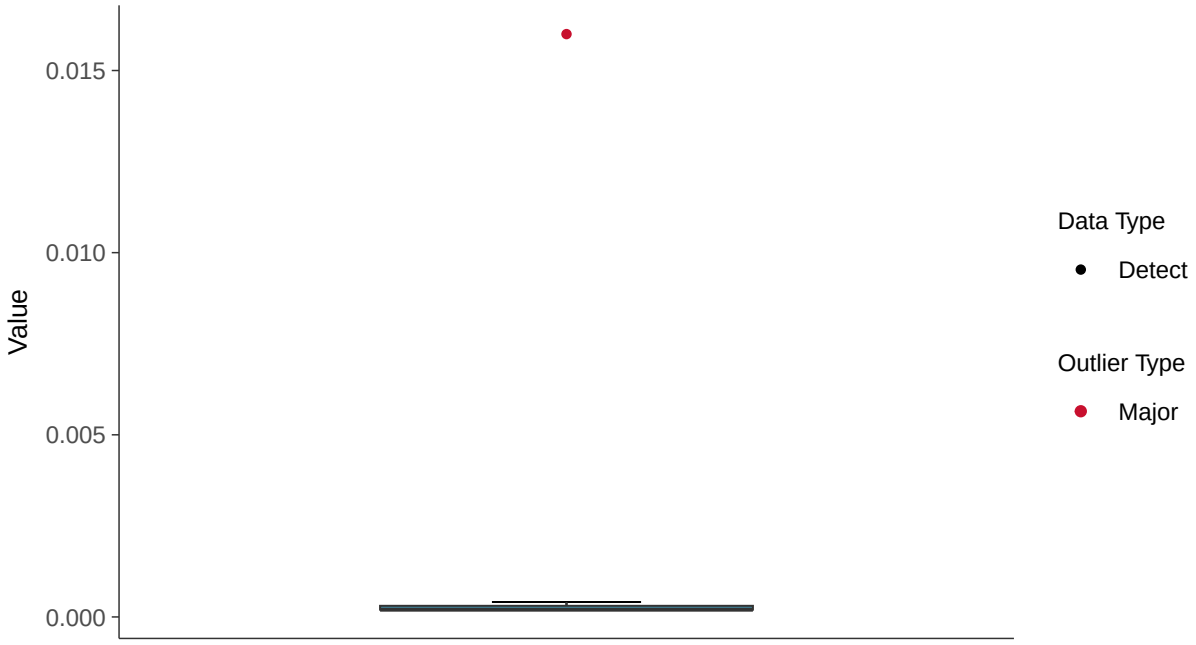
Histogram

Copper, MW-32 (mg/L)



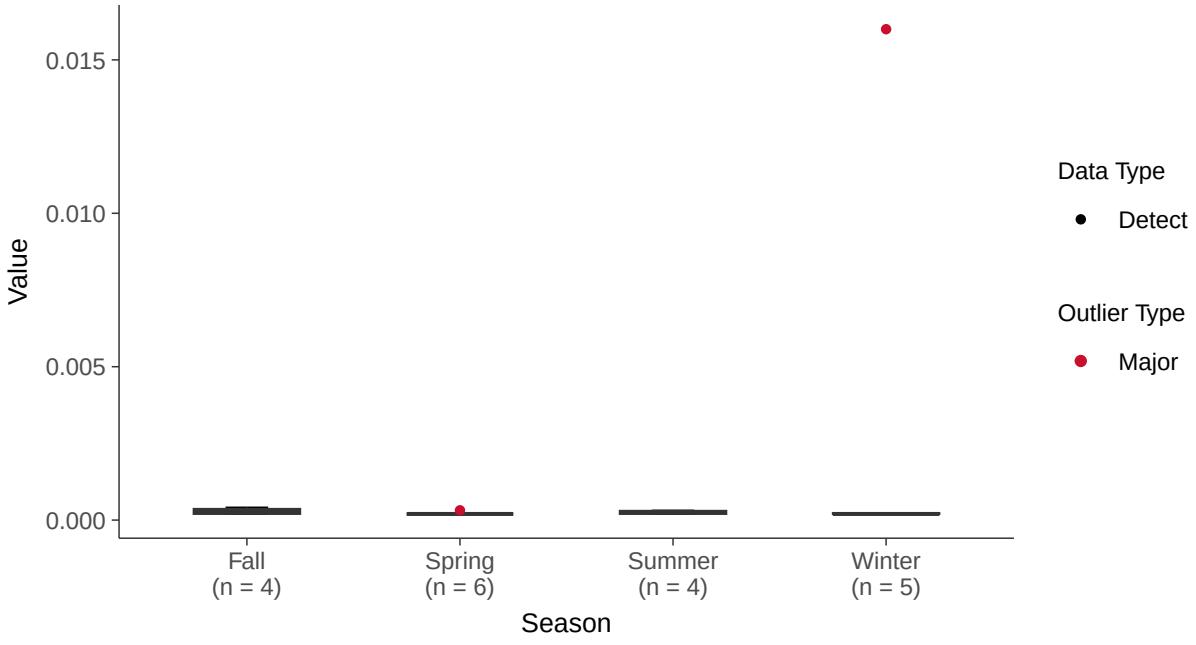
Boxplot

Copper, MW-32 (mg/L)



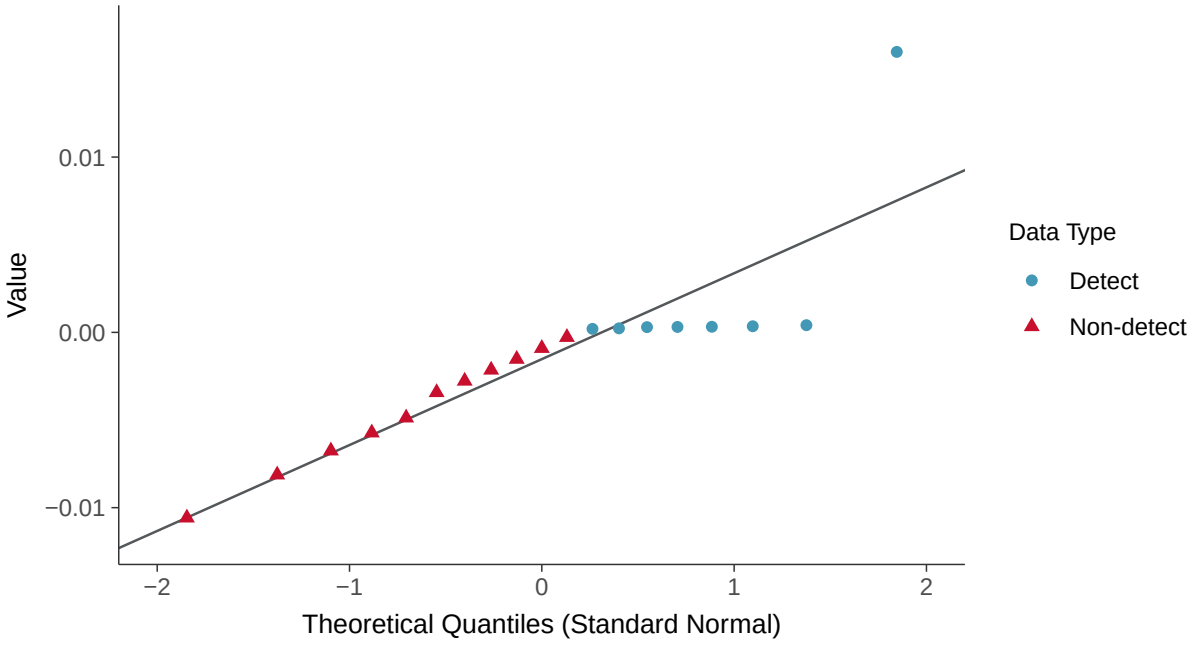
Boxplot by Season

Copper, MW-32 (mg/L)



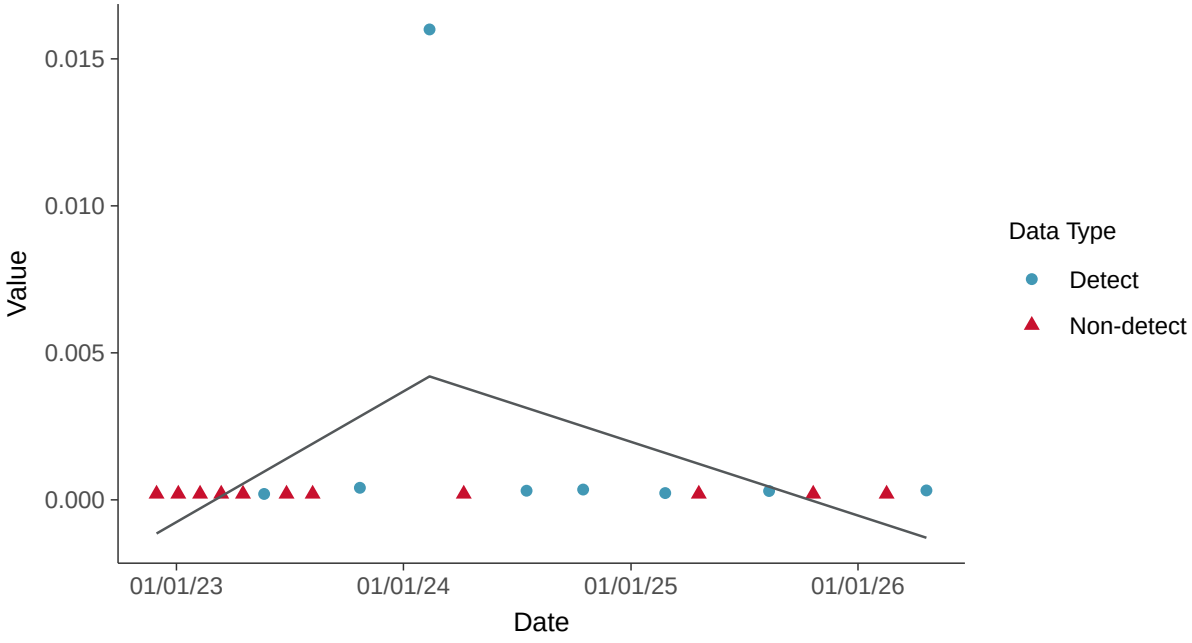
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-32 (mg/L)



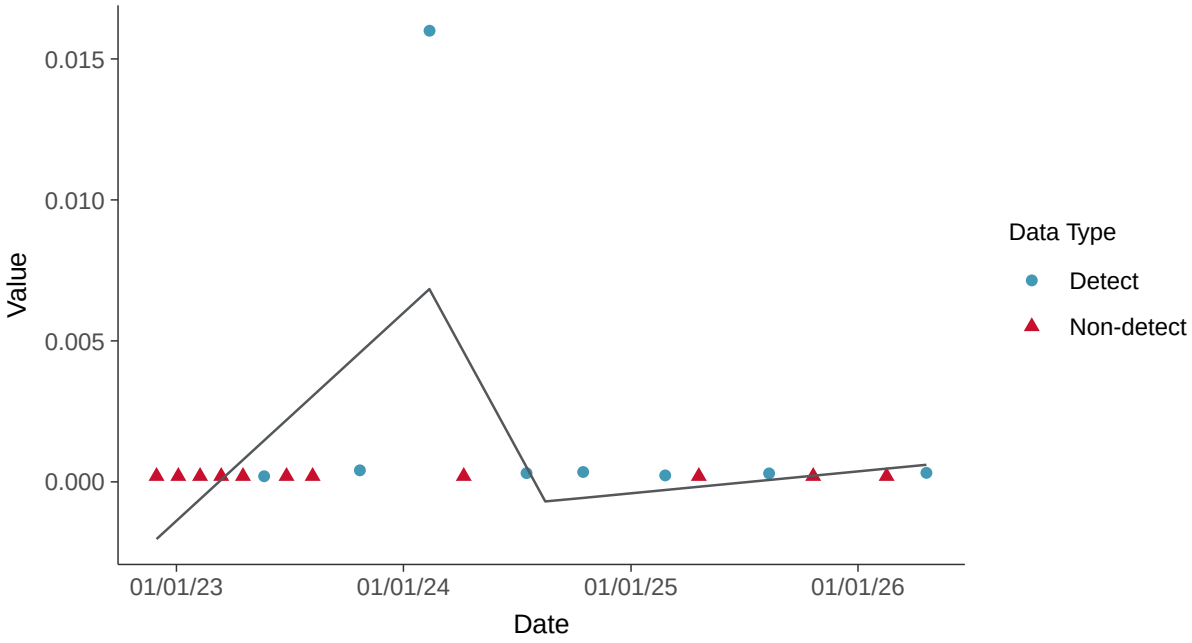
Trend Regression: Piecewise Linear-Linear

Copper, MW-32 (mg/L)



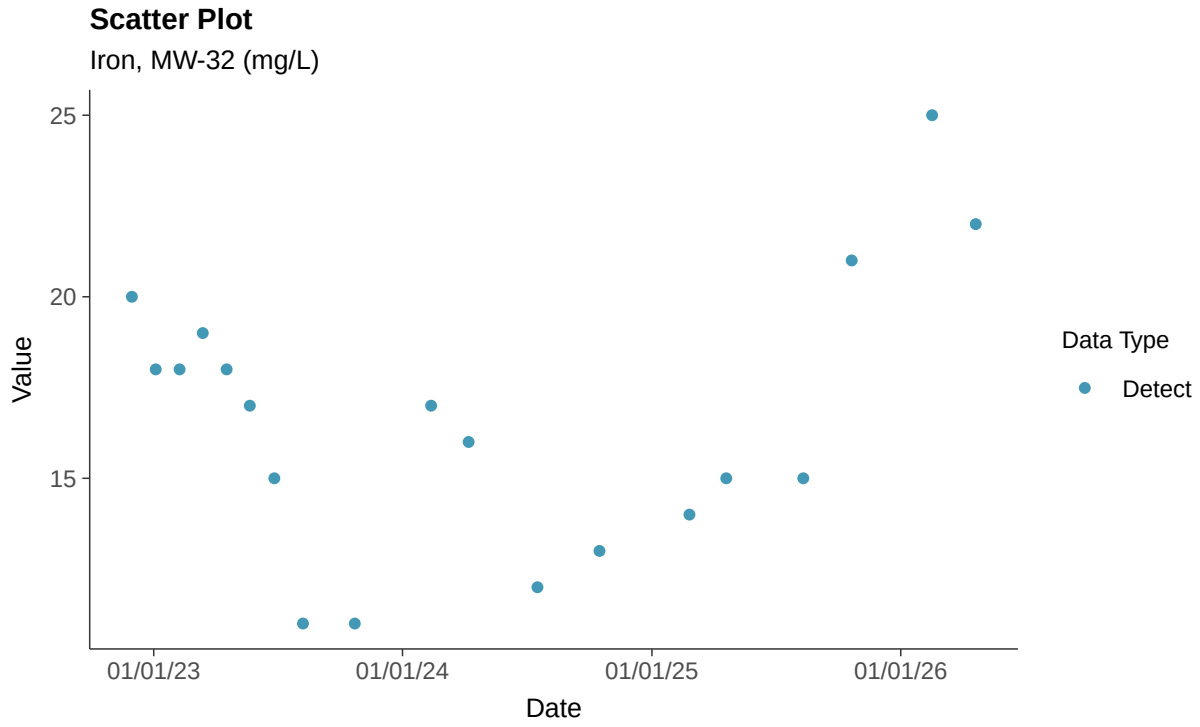
Trend Regression: Piecewise Linear-Linear-Linear

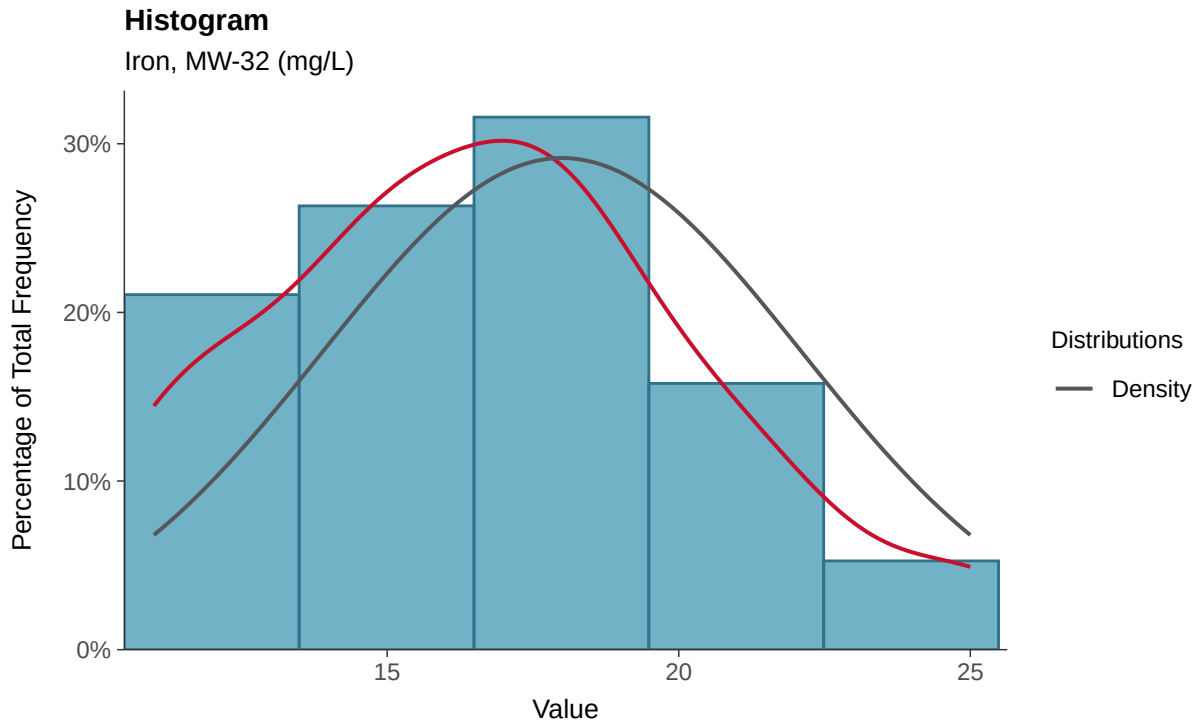
Copper, MW-32 (mg/L)



Part 115: Iron, MW-32

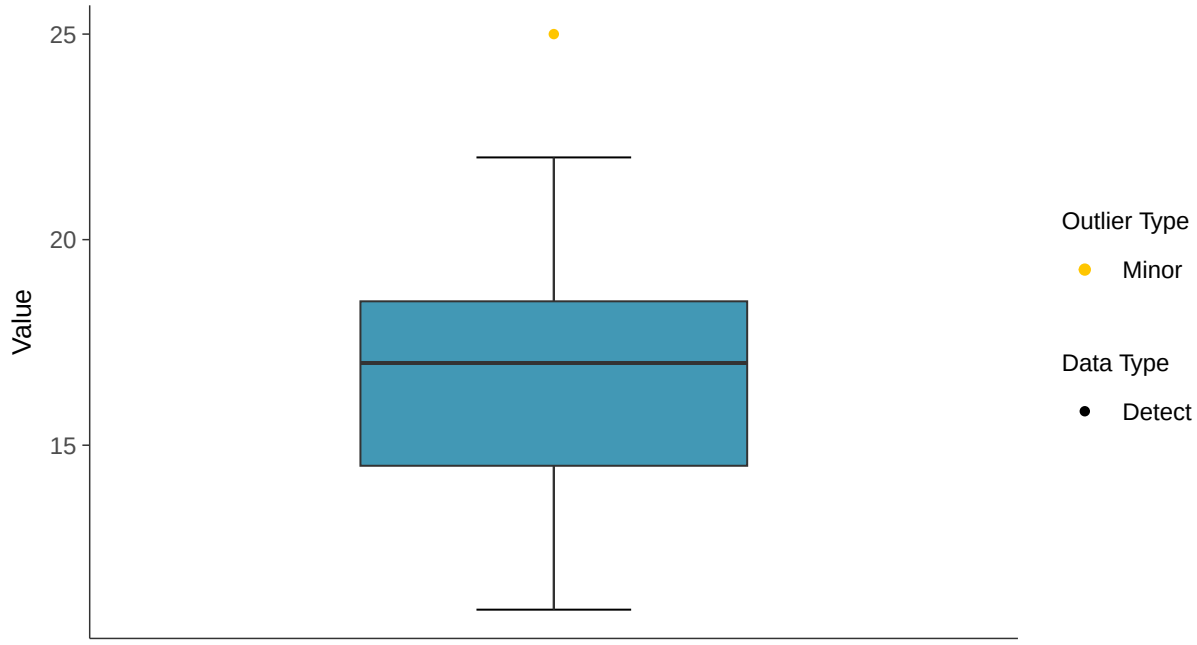
ID: 42_1_5_114





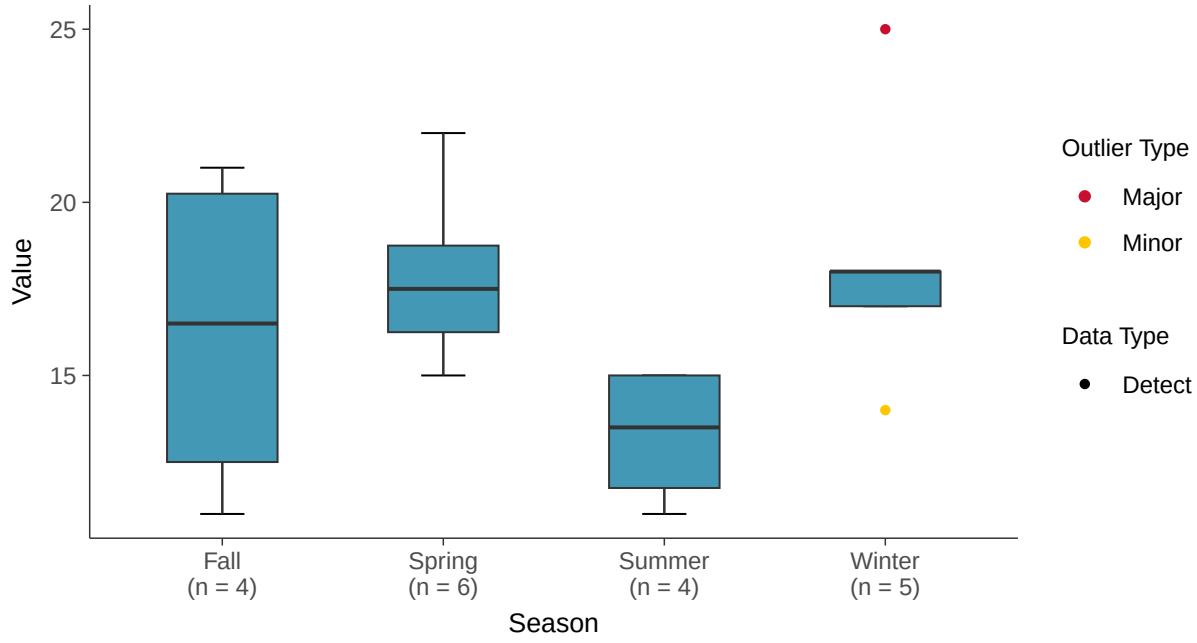
Boxplot

Iron, MW-32 (mg/L)



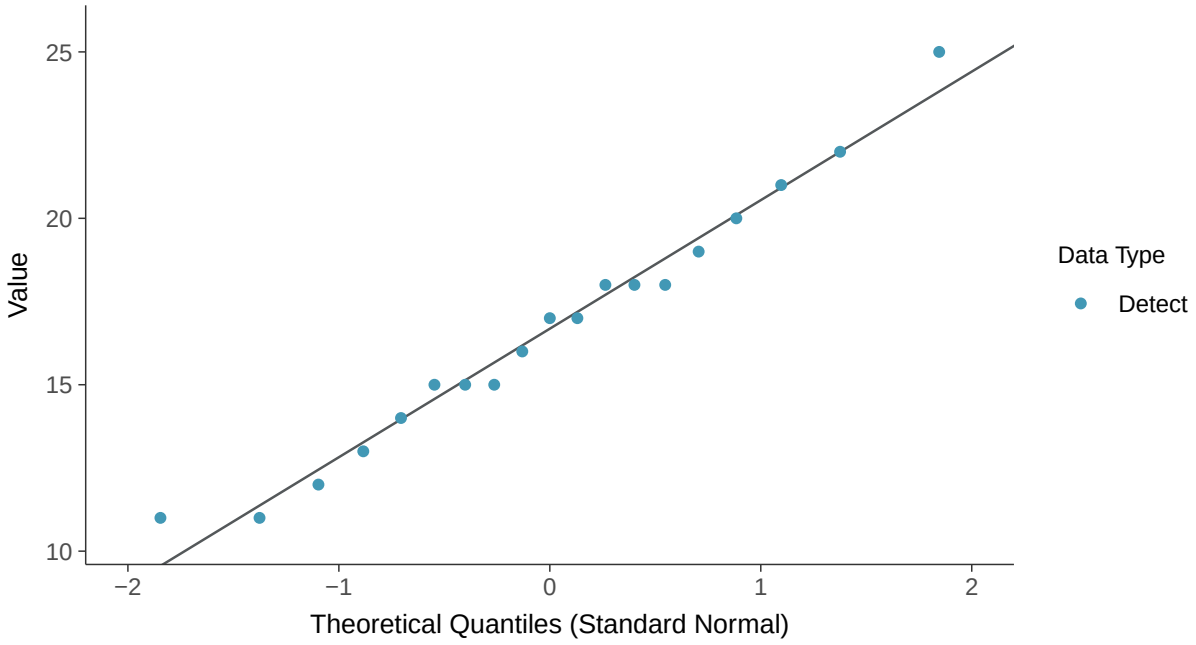
Boxplot by Season

Iron, MW-32 (mg/L)



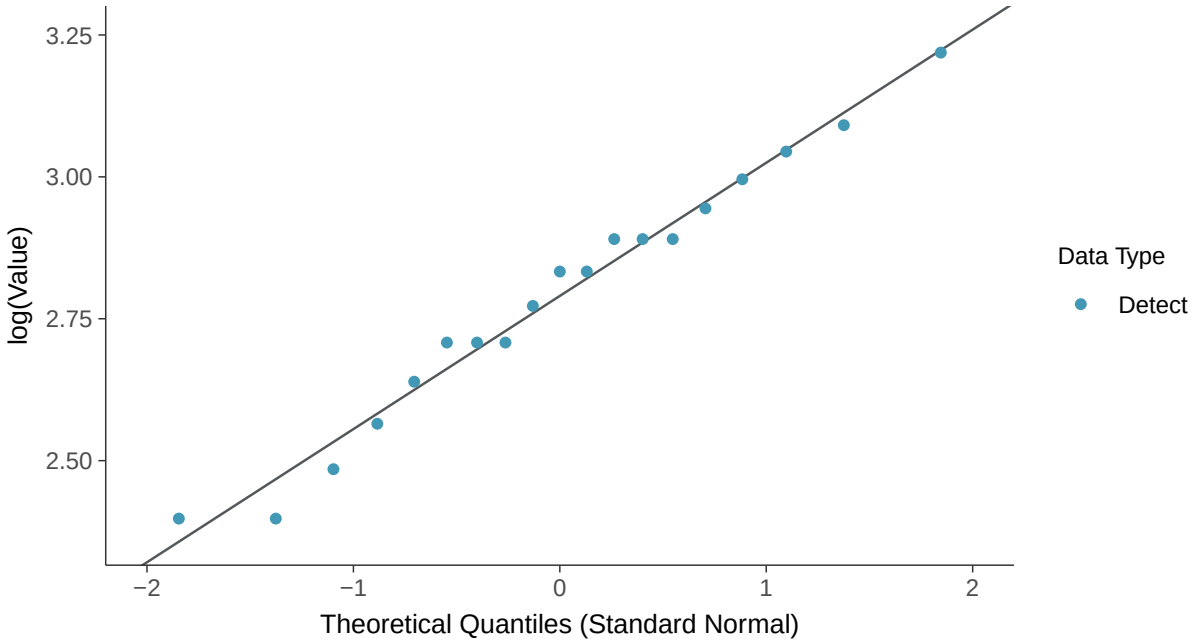
Normal Q-Q plot

Iron, MW-32 (mg/L)



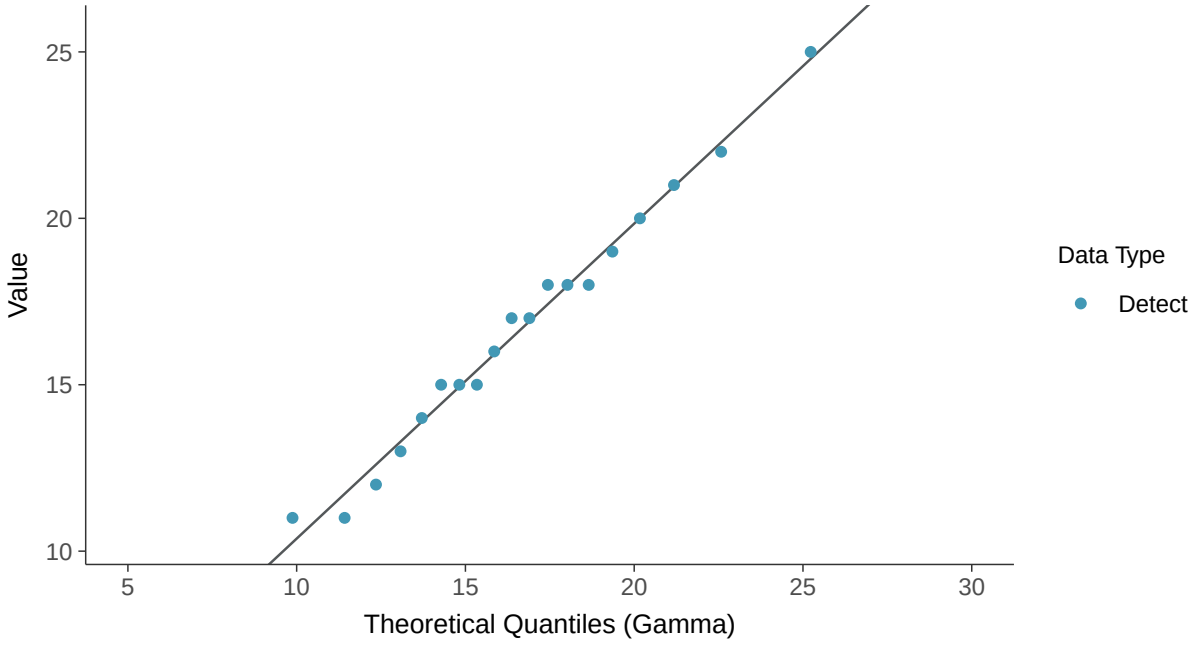
Lognormal Q-Q plot

Iron, MW-32 (mg/L)



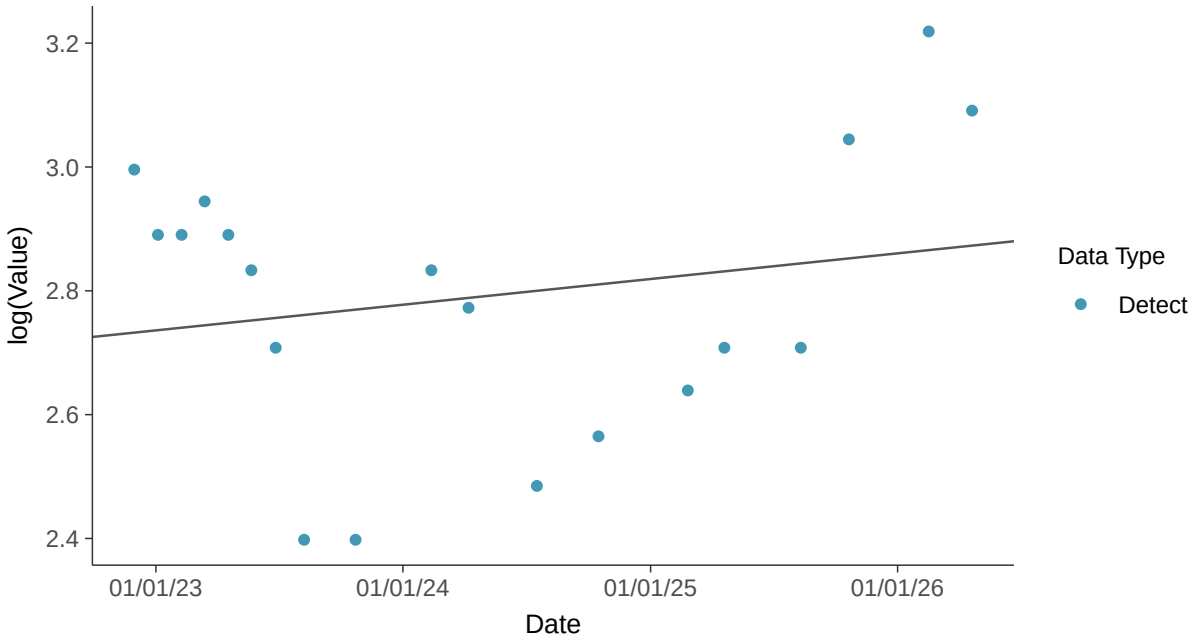
Gamma Q-Q plot

Iron, MW-32 (mg/L)



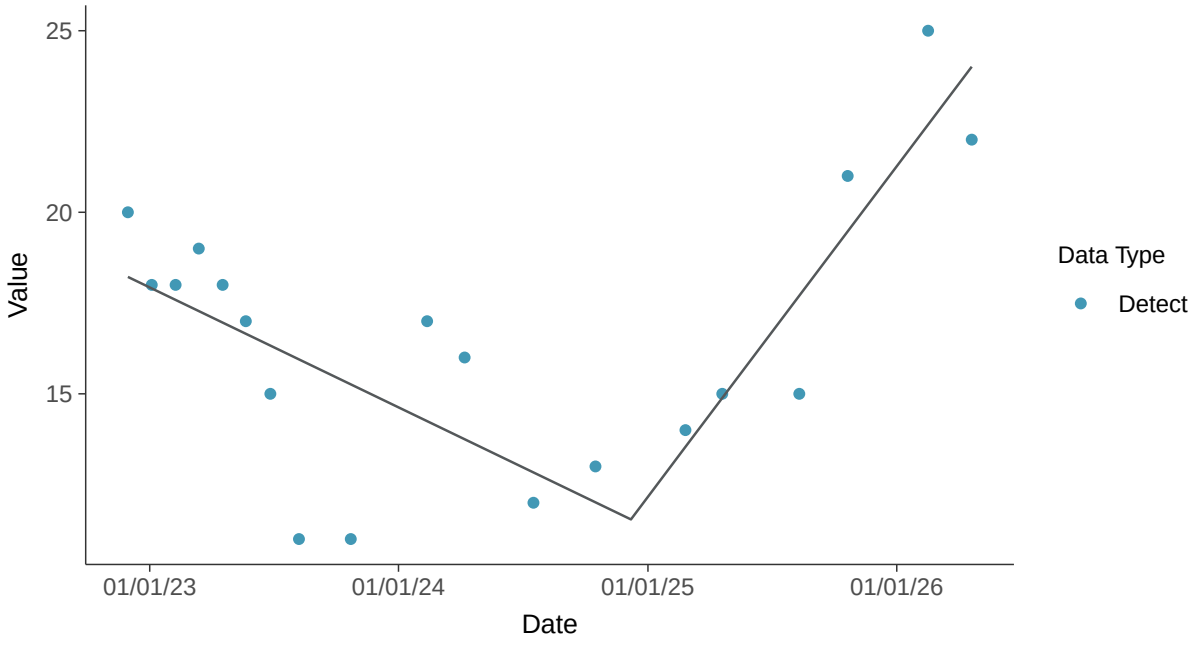
Trend Regression: Lognormal MLE

Iron, MW-32 (mg/L)



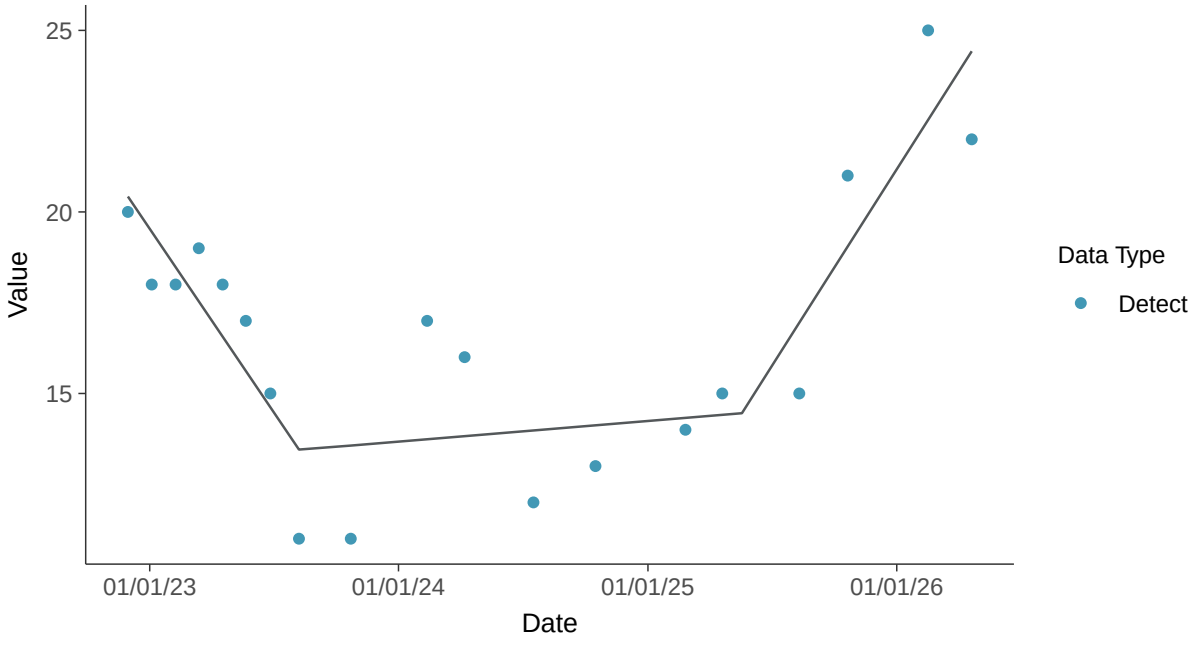
Trend Regression: Piecewise Linear-Linear

Iron, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Iron, MW-32 (mg/L)

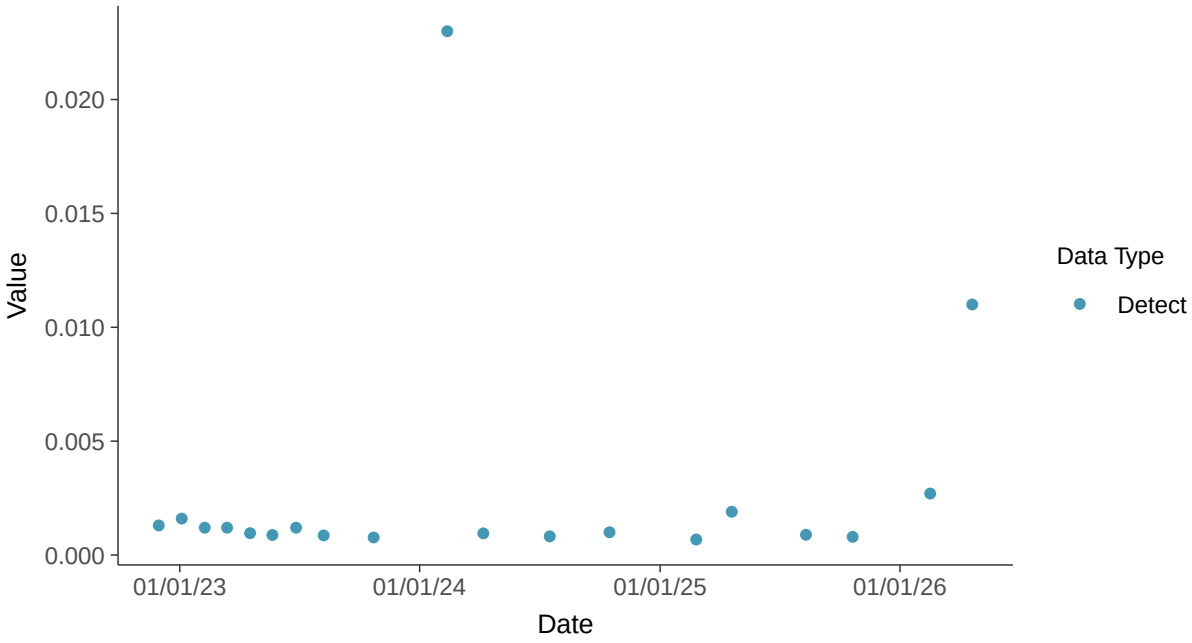


Part 115: Nickel, MW-32

ID: 42_1_5_119

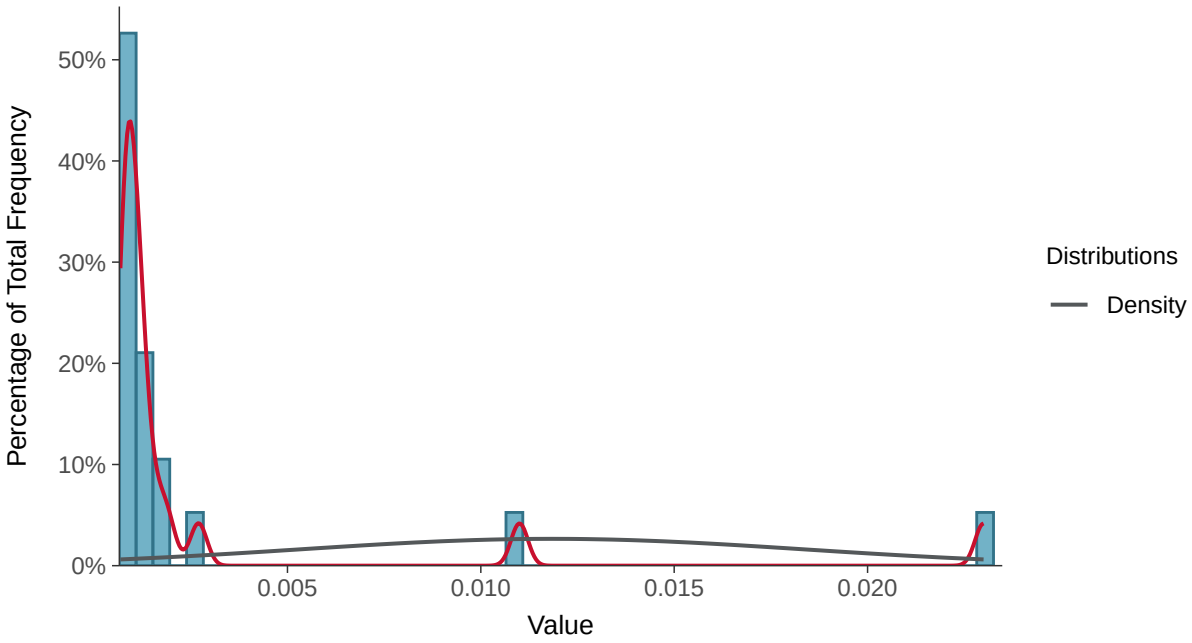
Scatter Plot

Nickel, MW-32 (mg/L)



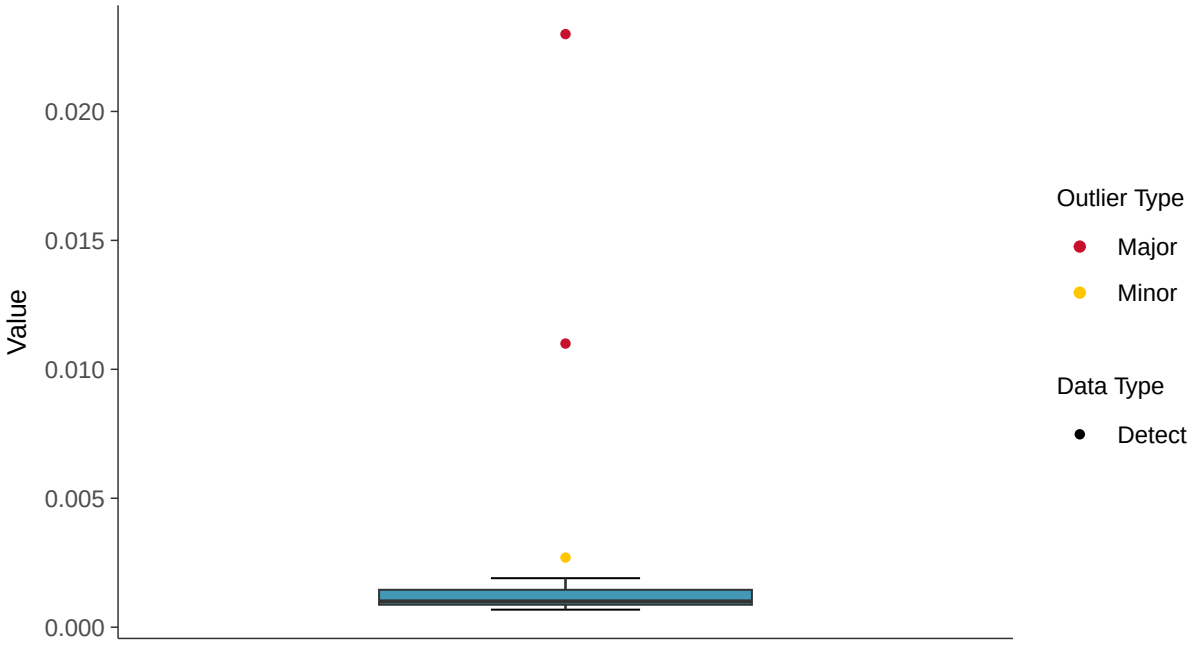
Histogram

Nickel, MW-32 (mg/L)



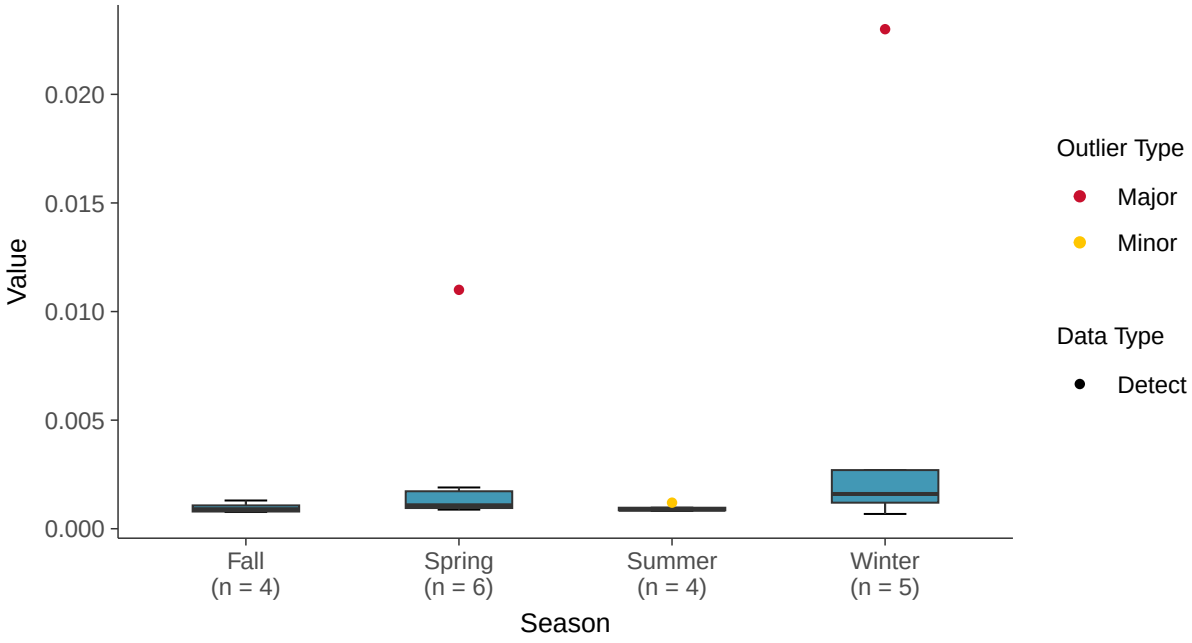
Boxplot

Nickel, MW-32 (mg/L)



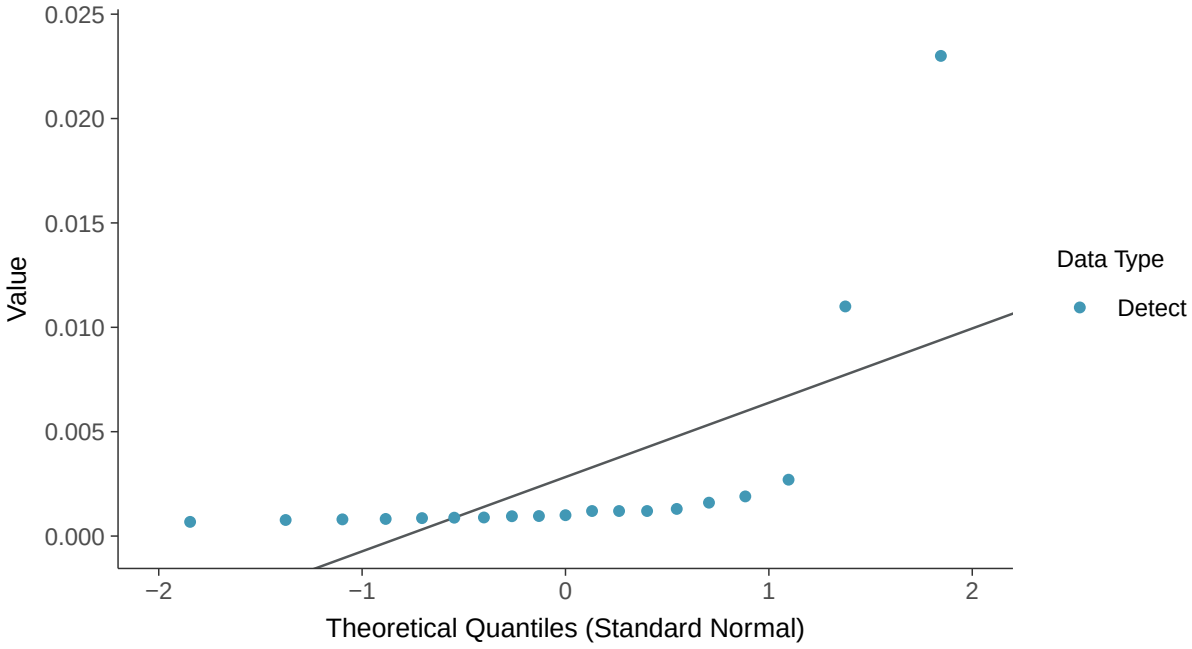
Boxplot by Season

Nickel, MW-32 (mg/L)



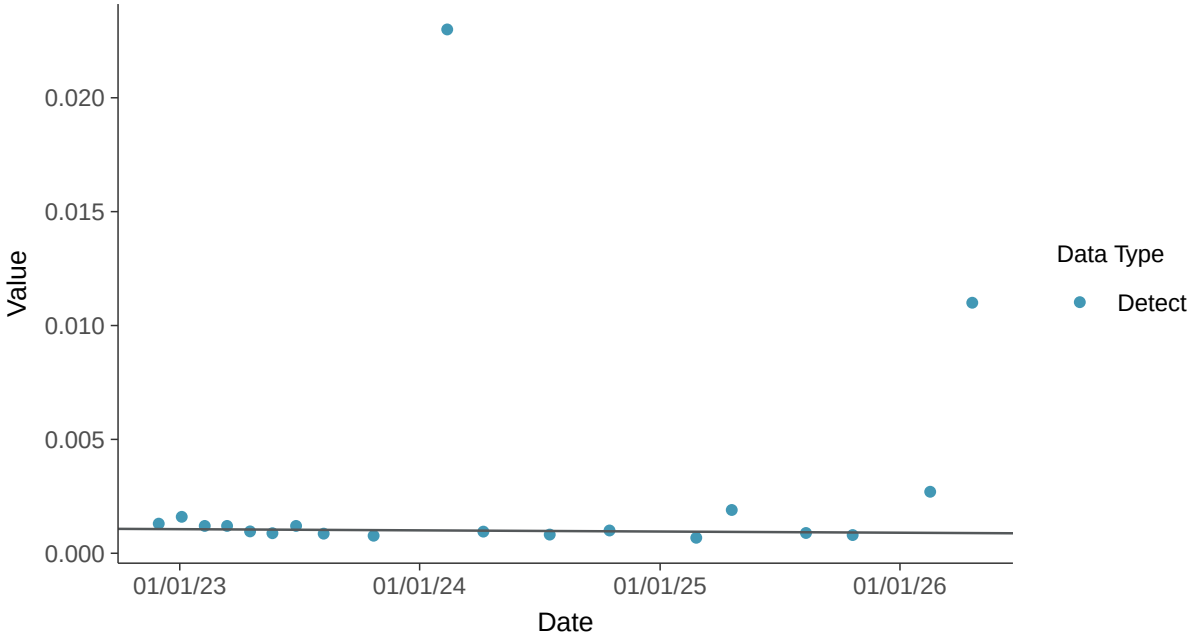
Normal Q-Q plot

Nickel, MW-32 (mg/L)



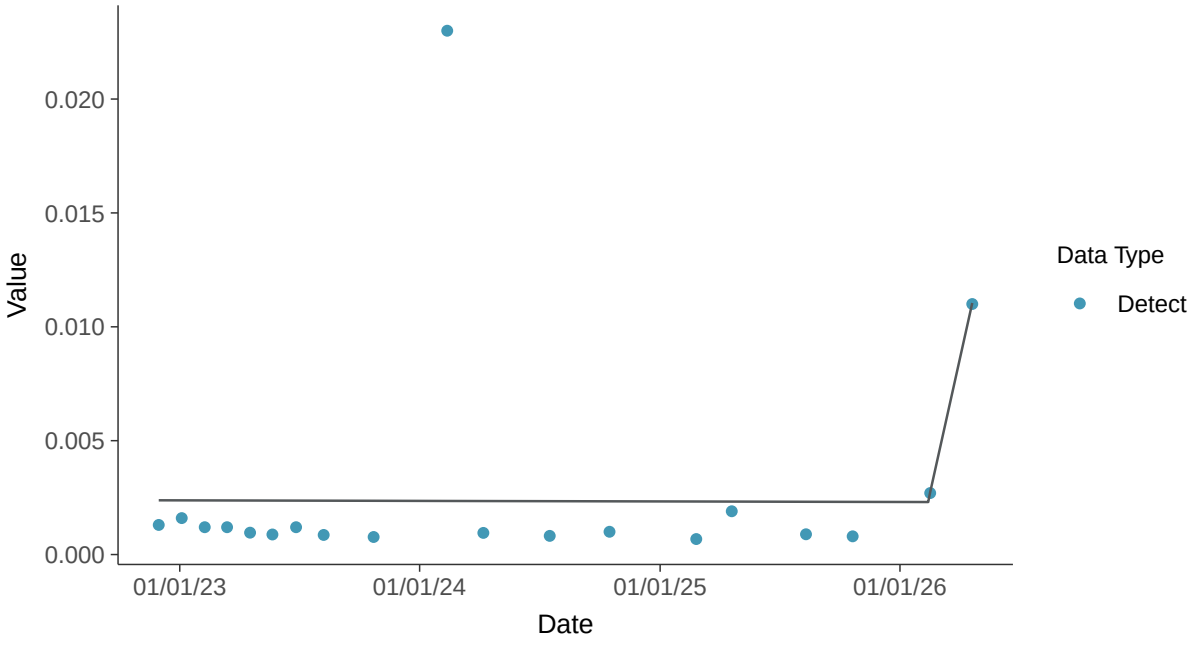
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Nickel, MW-32 (mg/L)



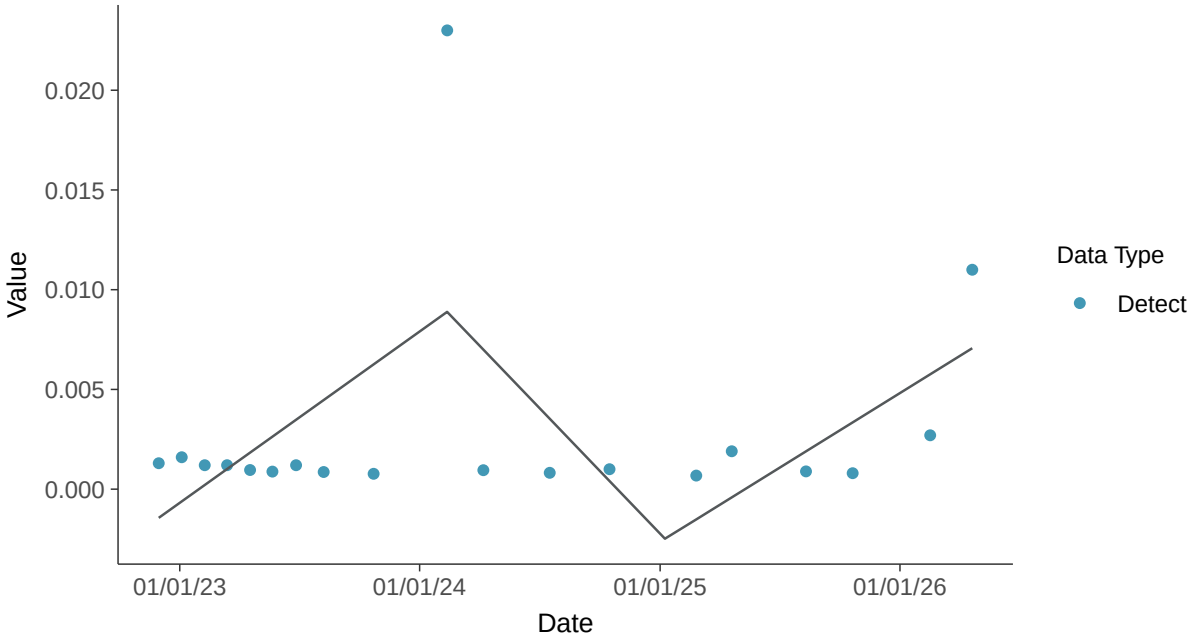
Trend Regression: Piecewise Linear-Linear

Nickel, MW-32 (mg/L)



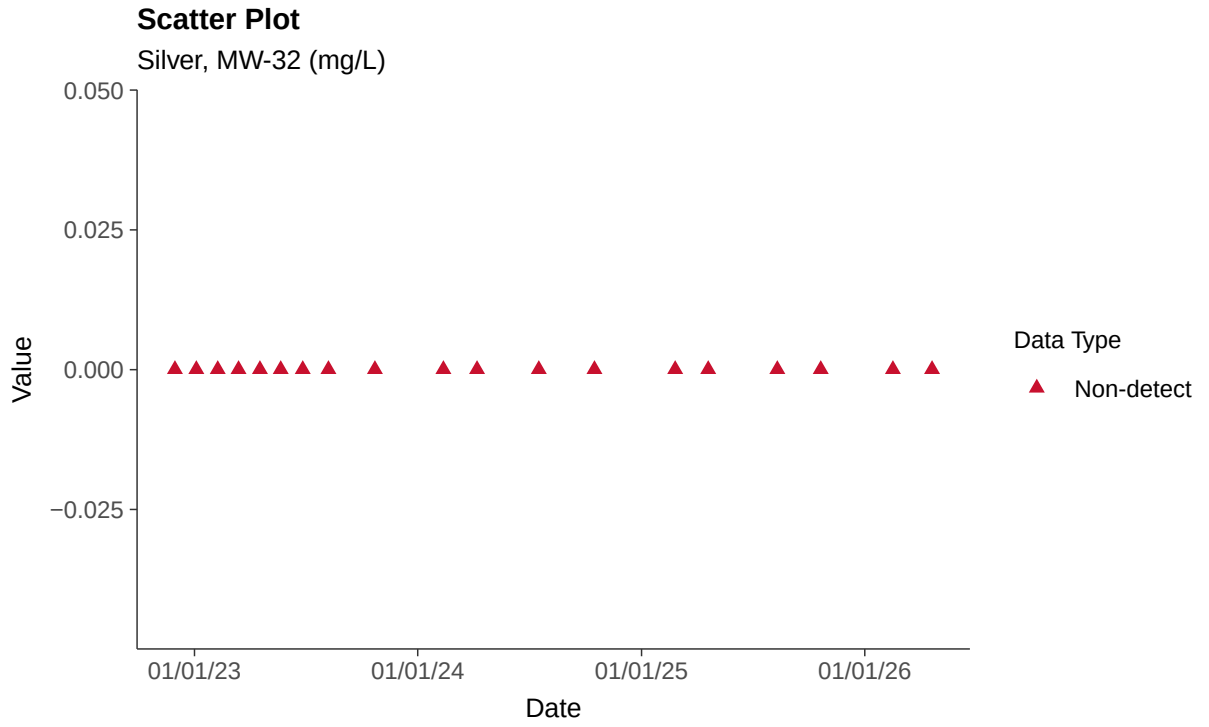
Trend Regression: Piecewise Linear-Linear-Linear

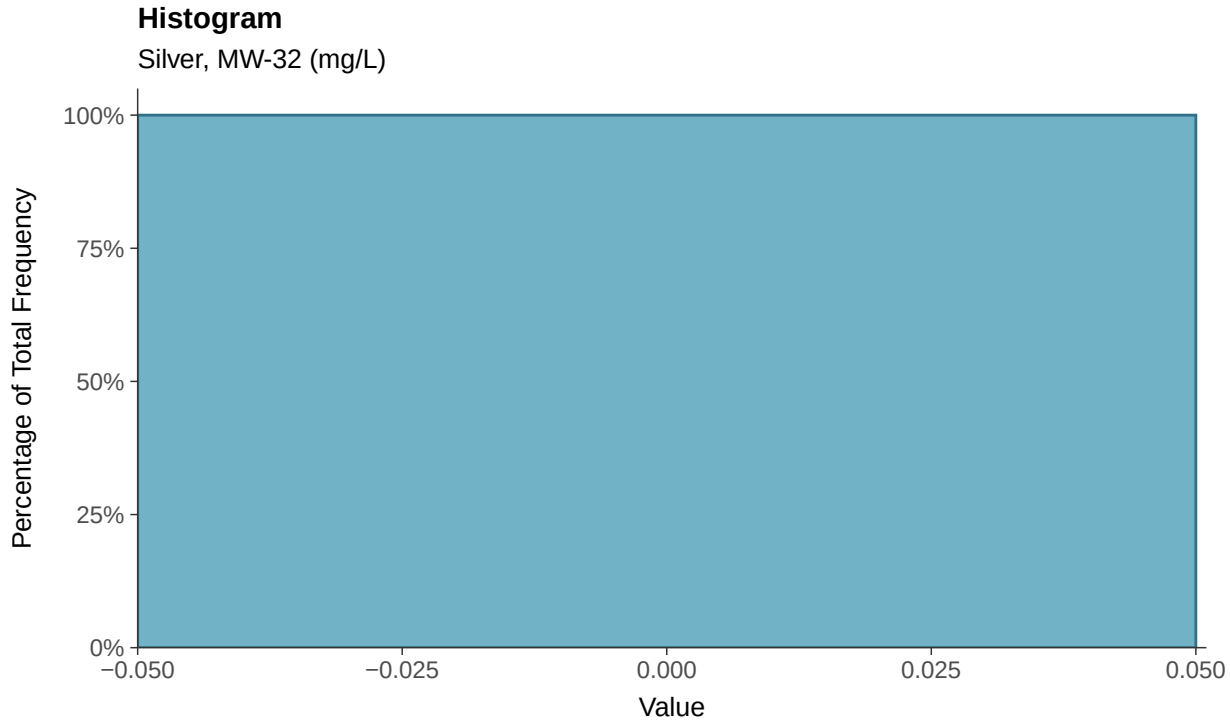
Nickel, MW-32 (mg/L)



Part 115: Silver, MW-32

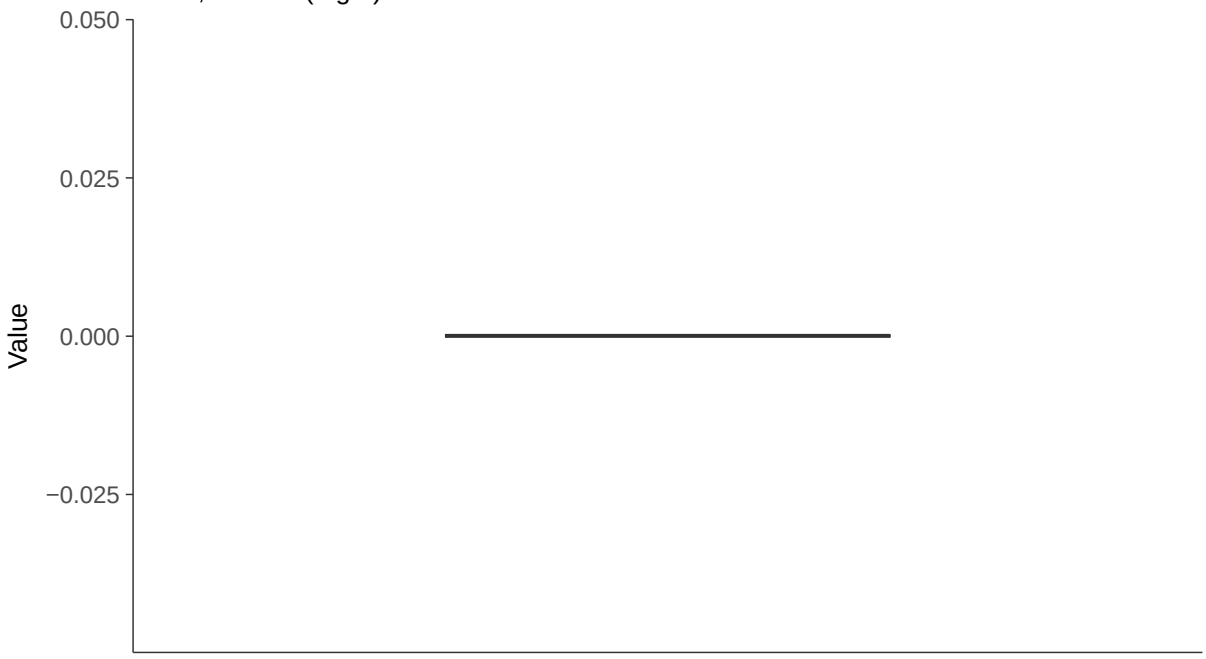
ID: 42_1_5_123





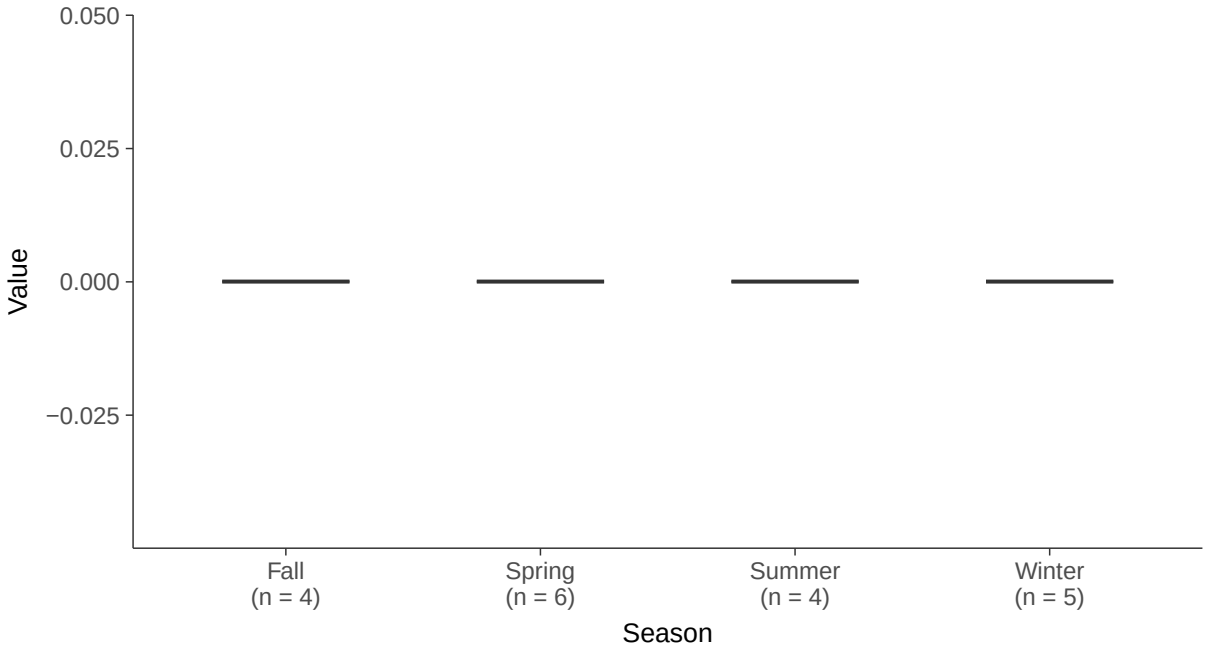
Boxplot

Silver, MW-32 (mg/L)



Boxplot by Season

Silver, MW-32 (mg/L)

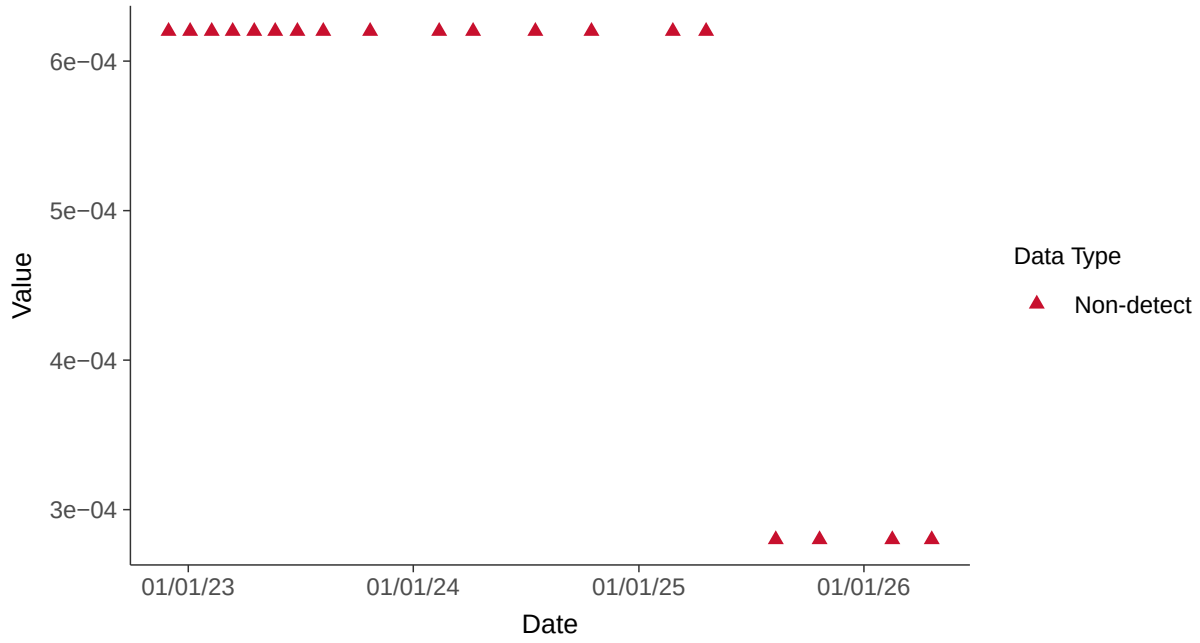


Part 115: Vanadium, MW-32

ID: 42_1_5_128

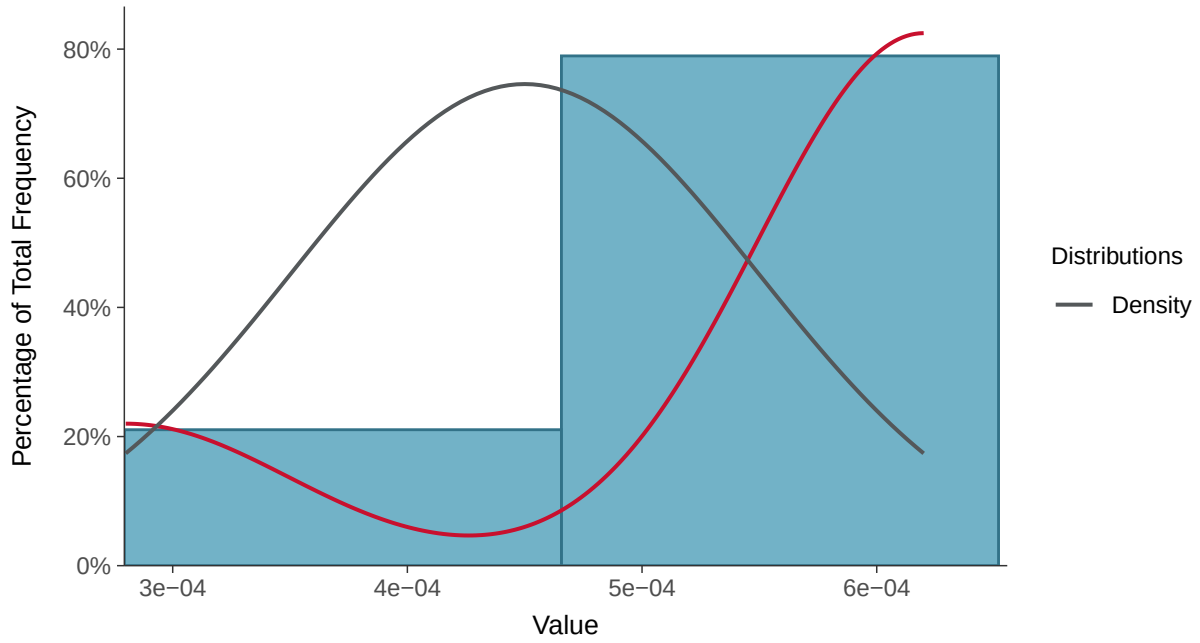
Scatter Plot

Vanadium, MW-32 (mg/L)



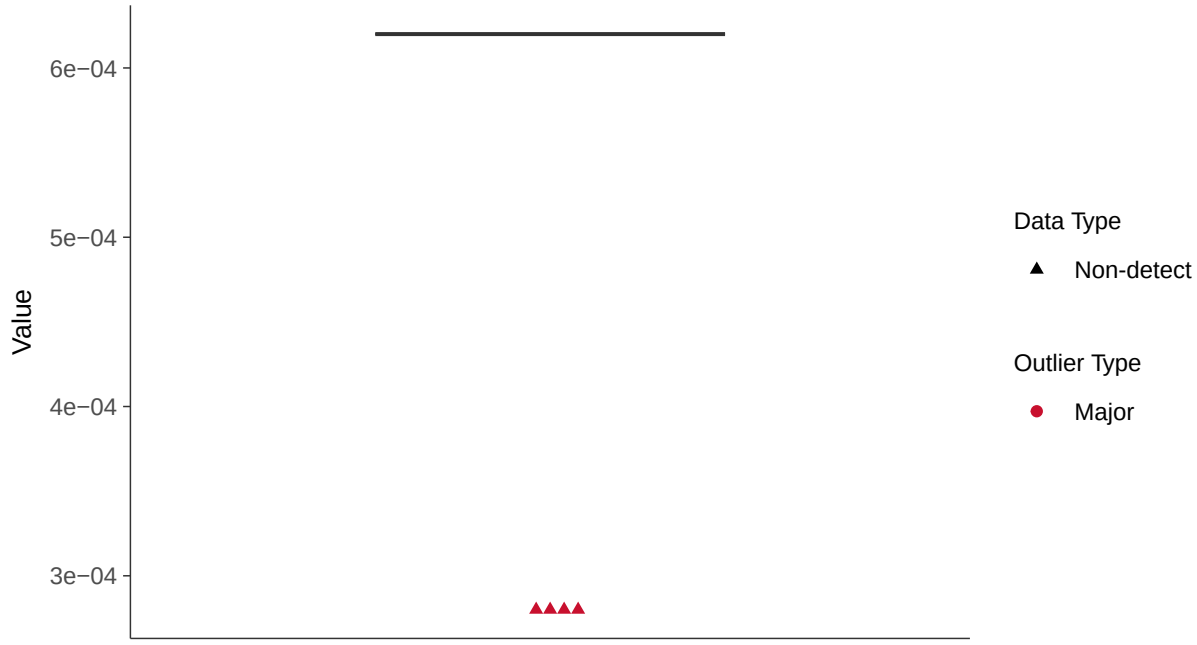
Histogram

Vanadium, MW-32 (mg/L)



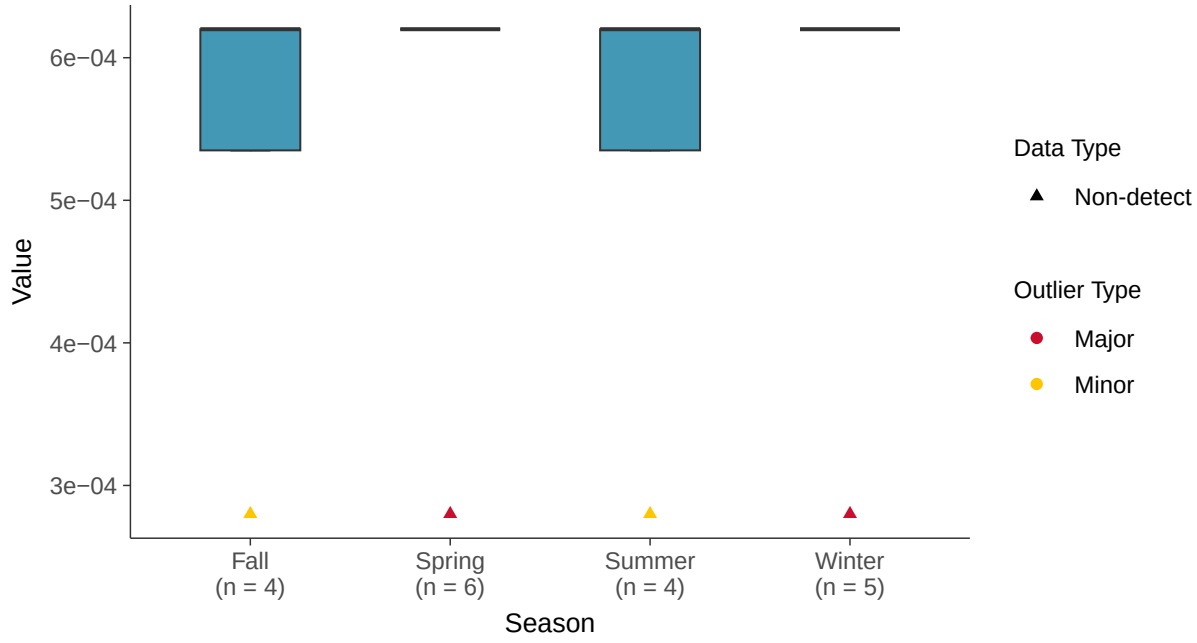
Boxplot

Vanadium, MW-32 (mg/L)



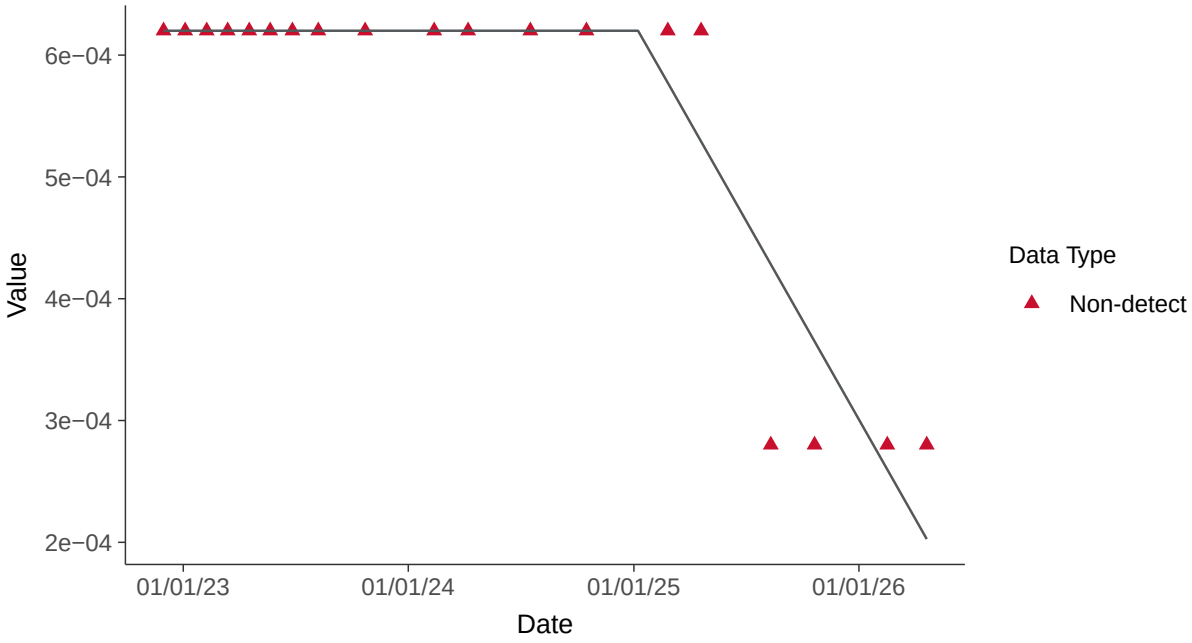
Boxplot by Season

Vanadium, MW-32 (mg/L)



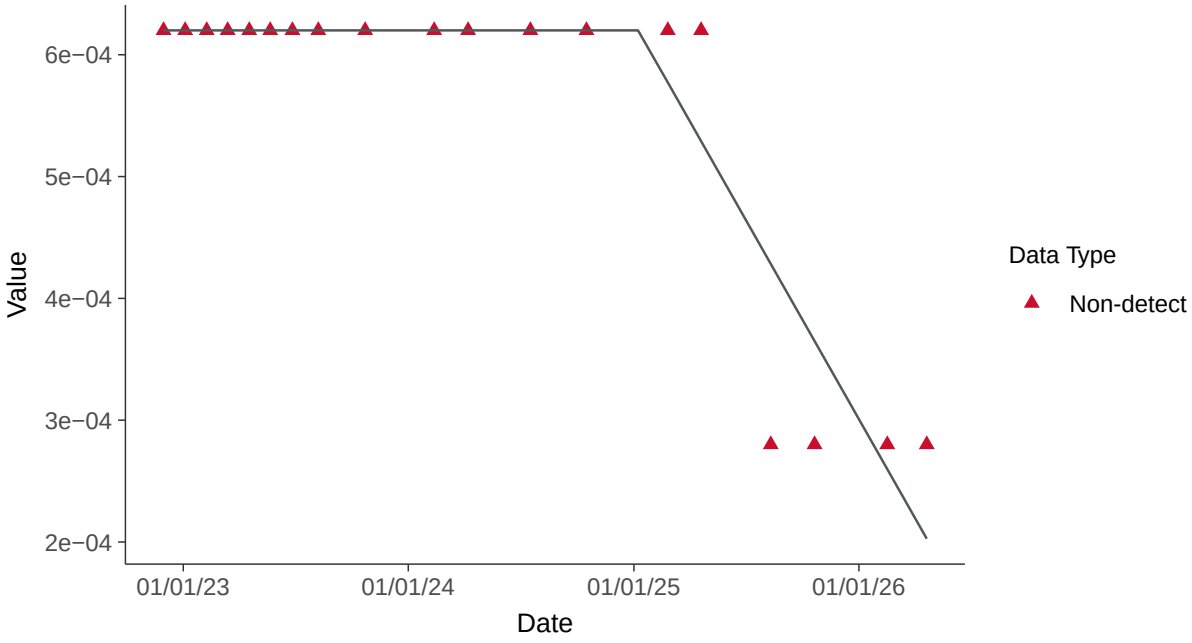
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-32 (mg/L)



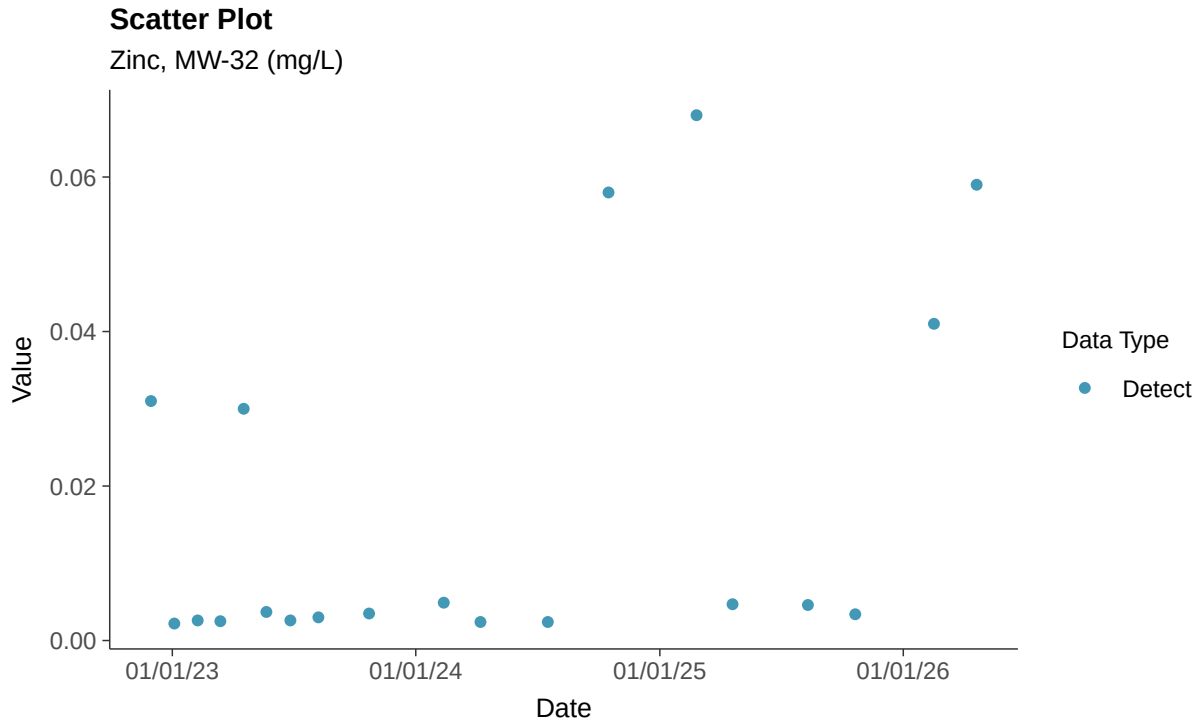
Trend Regression: Piecewise Linear-Linear-Linear

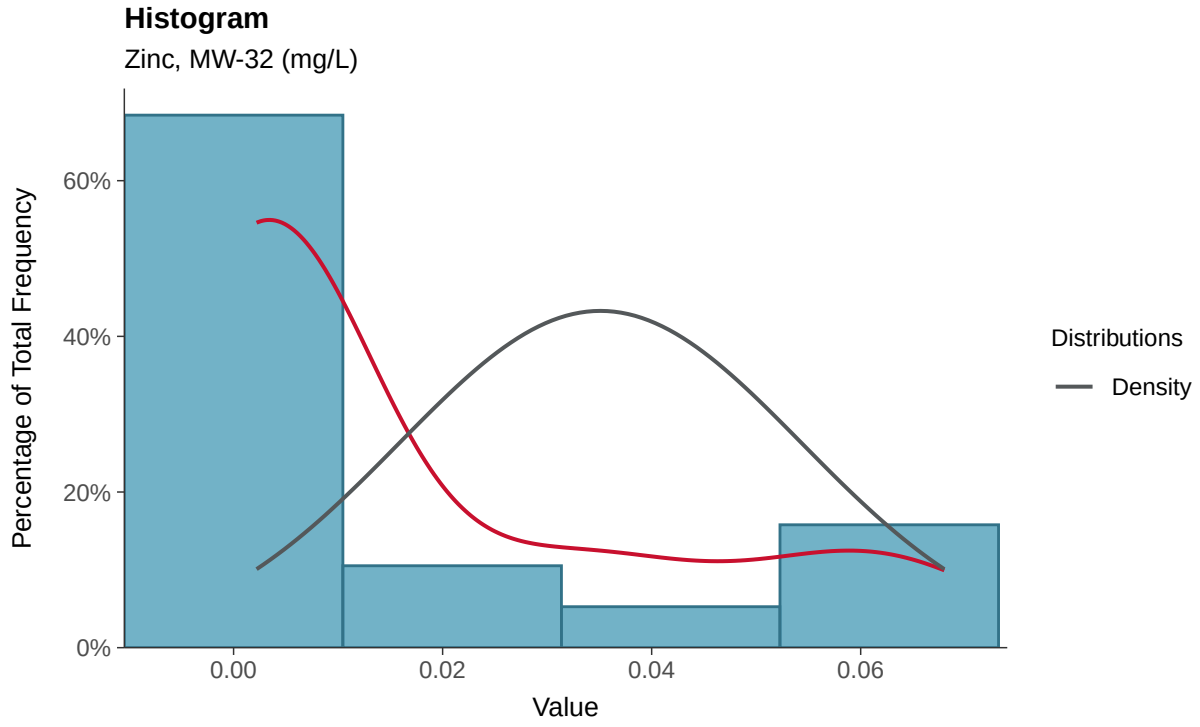
Vanadium, MW-32 (mg/L)



Part 115: Zinc, MW-32

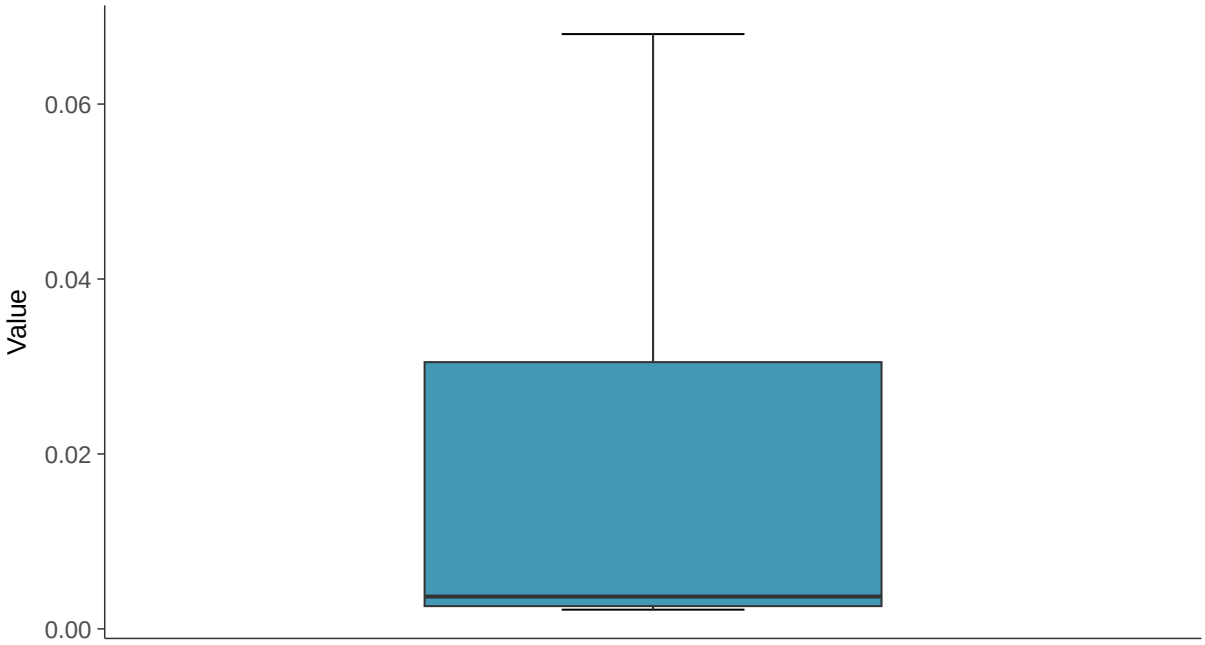
ID: 42_1_5_129





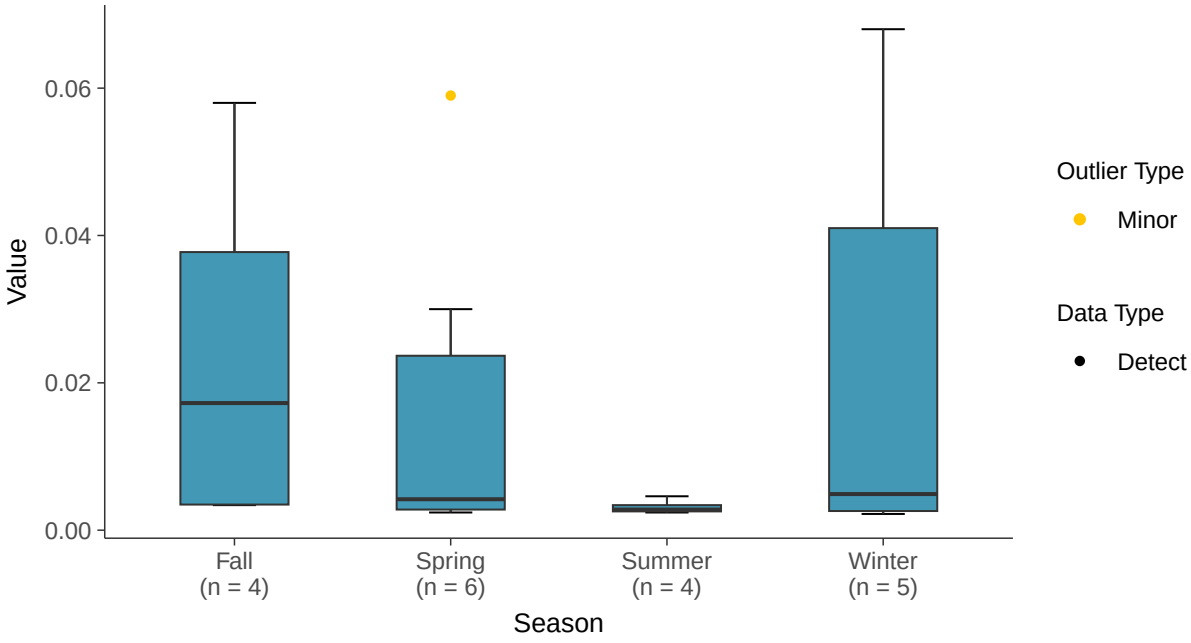
Boxplot

Zinc, MW-32 (mg/L)



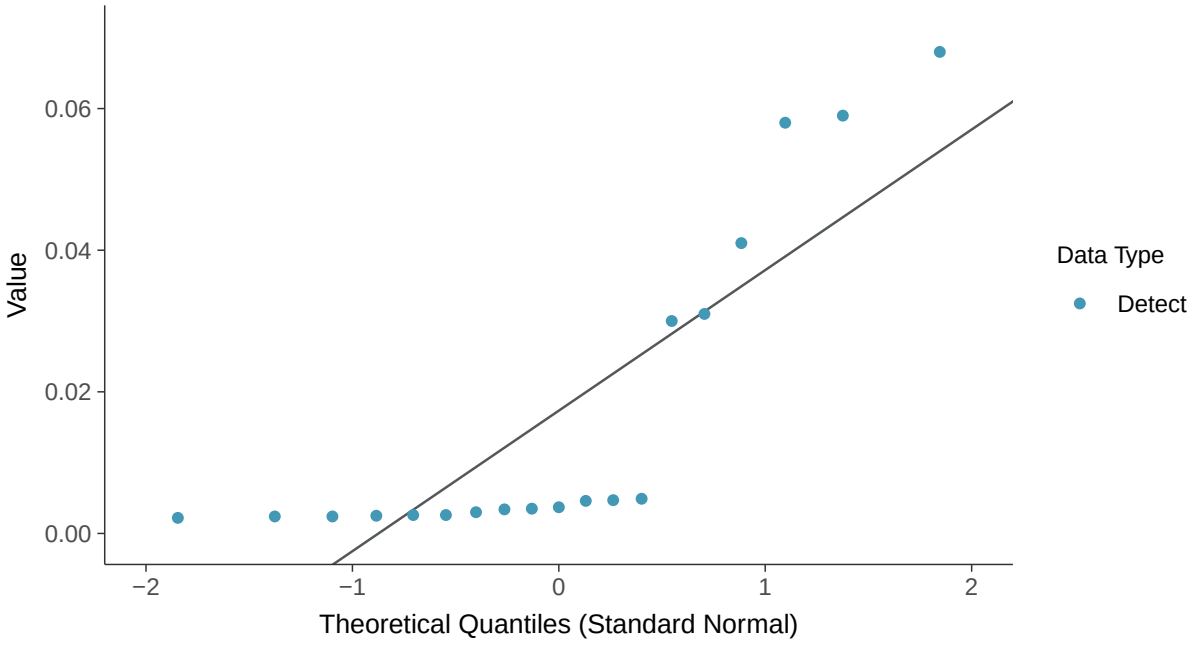
Boxplot by Season

Zinc, MW-32 (mg/L)



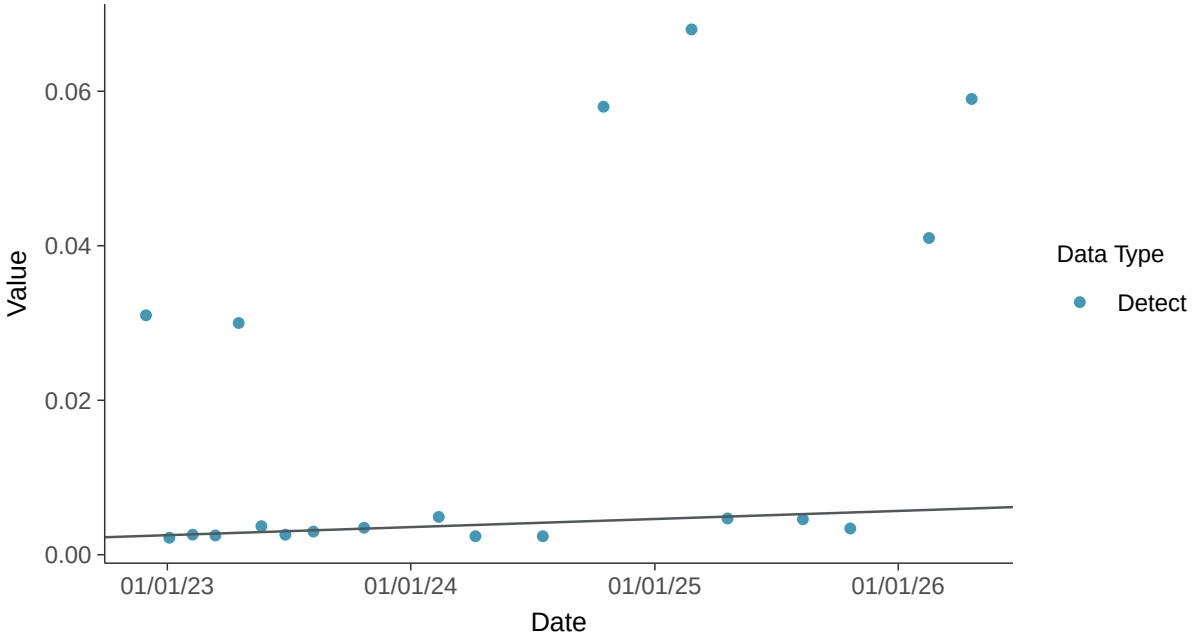
Normal Q-Q plot

Zinc, MW-32 (mg/L)



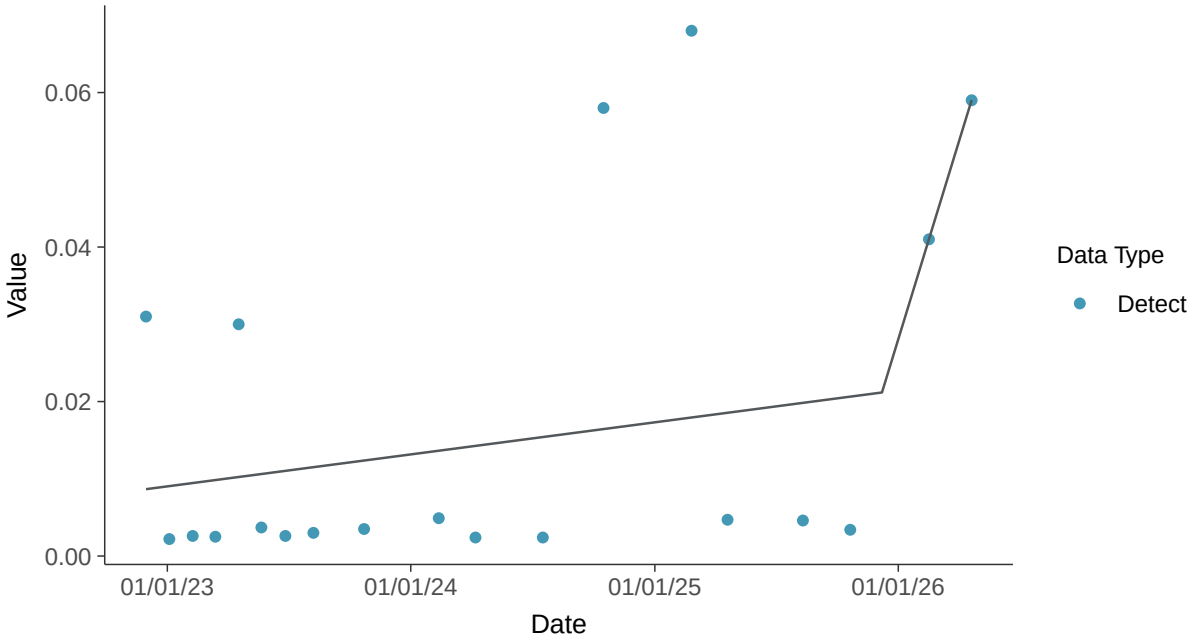
Trend Regression: Mann-Kendall/Theil-Sen Estimate

Zinc, MW-32 (mg/L)



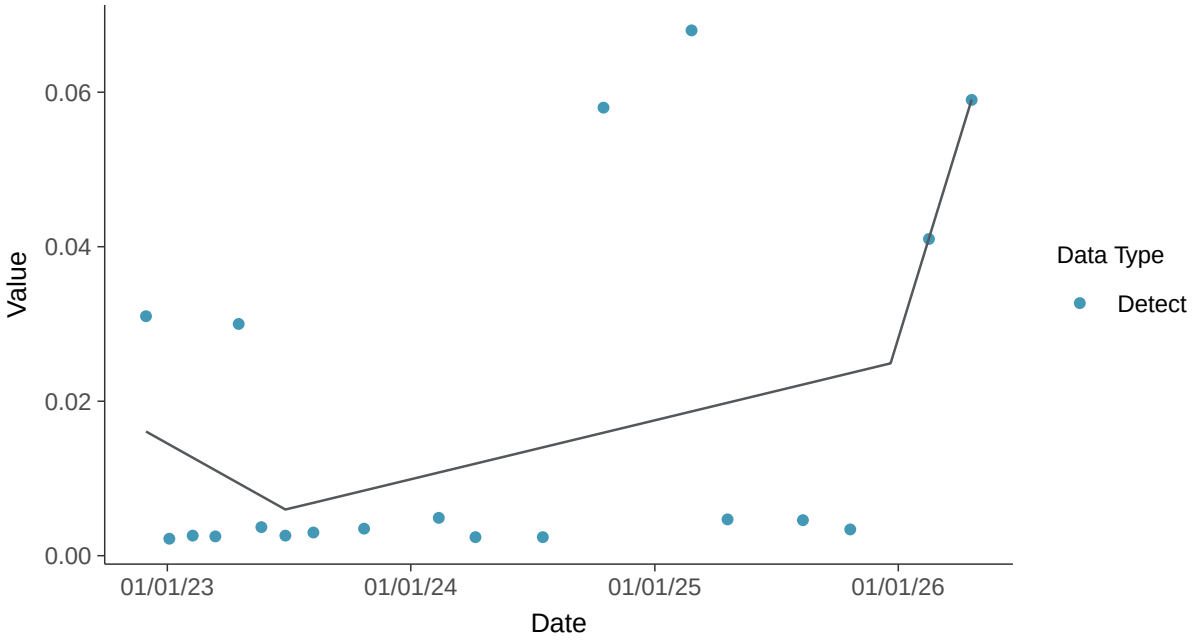
Trend Regression: Piecewise Linear-Linear

Zinc, MW-32 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-32 (mg/L)

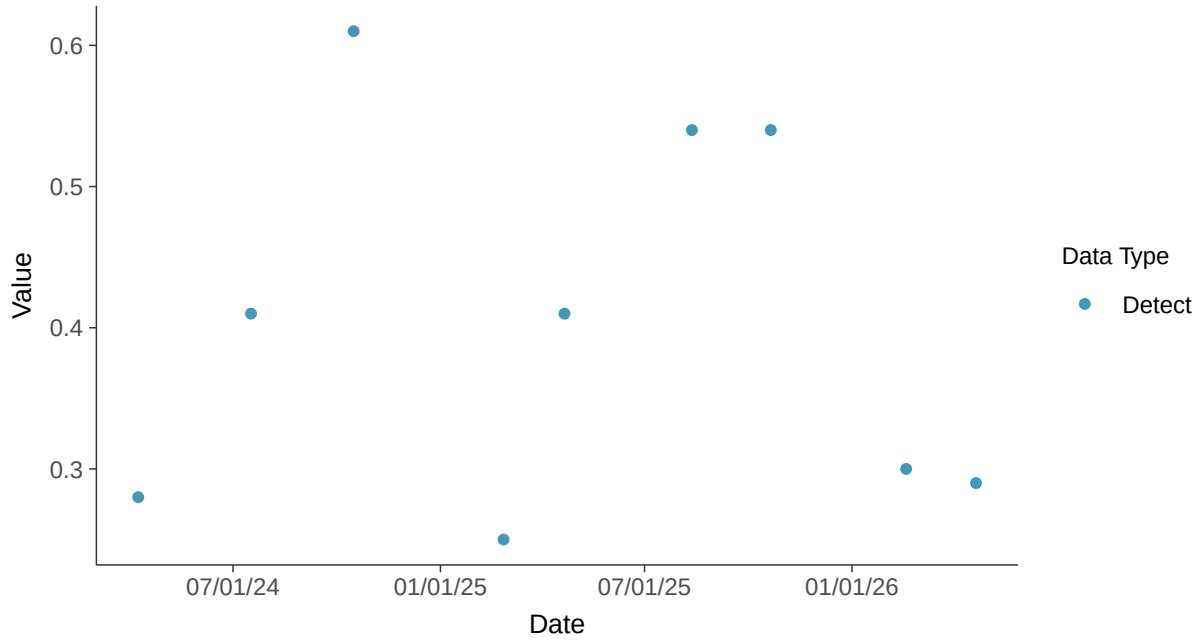


Appendix III: Boron, MW-36

ID: 46_1_3_105

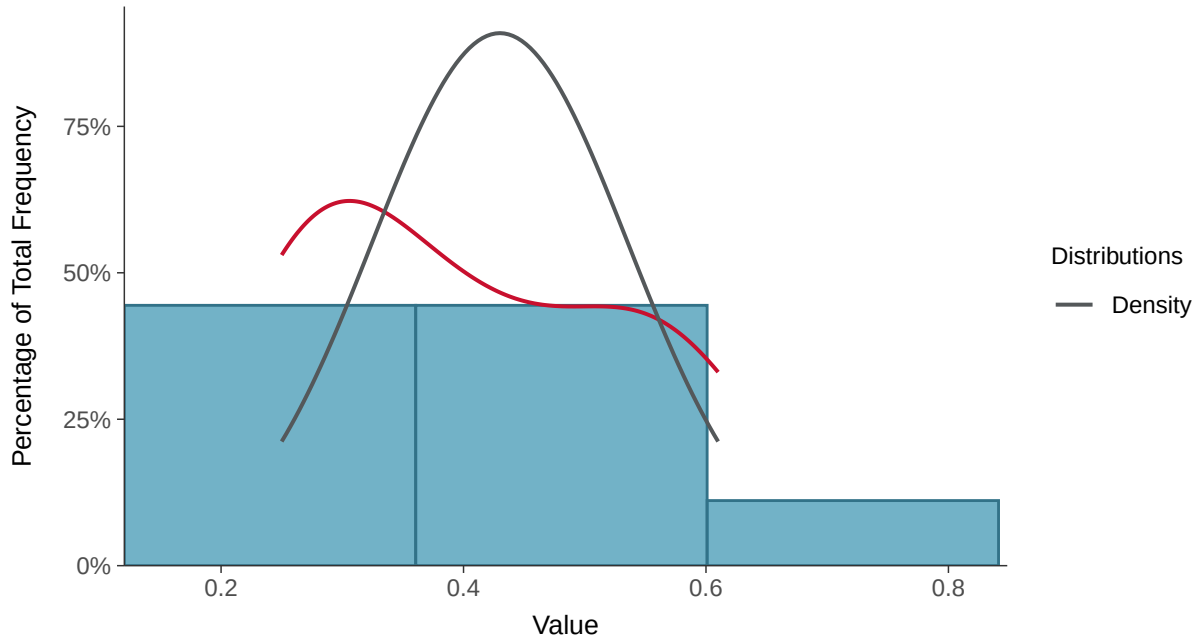
Scatter Plot

Boron, MW-36 (mg/L)



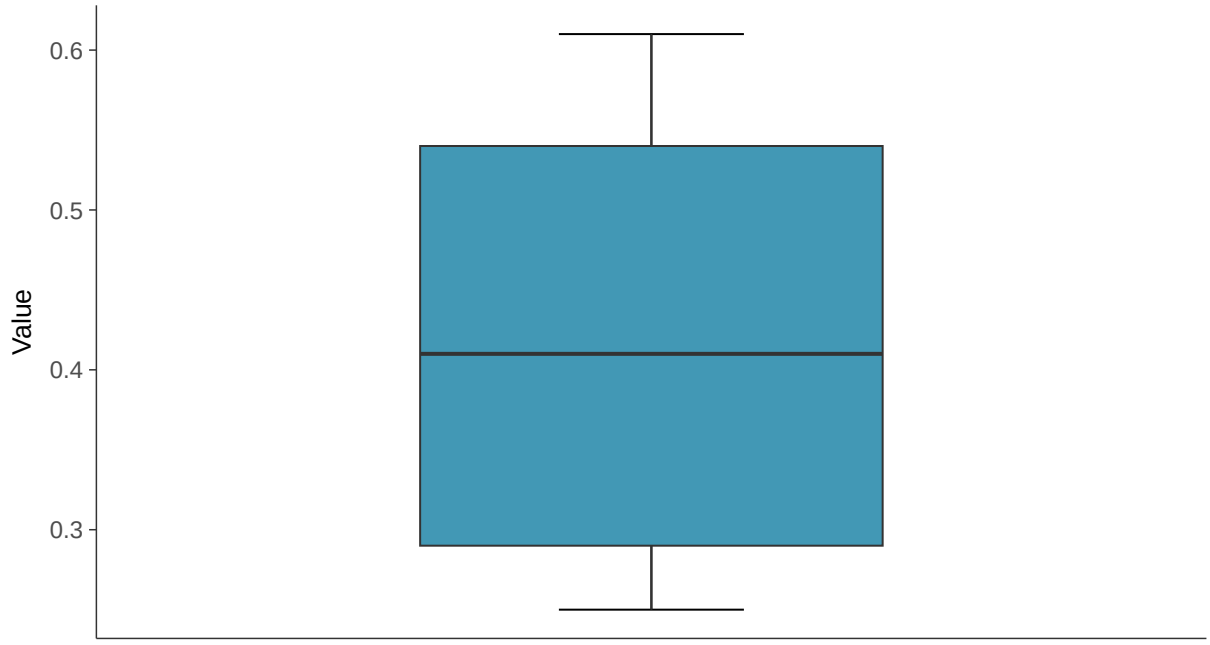
Histogram

Boron, MW-36 (mg/L)



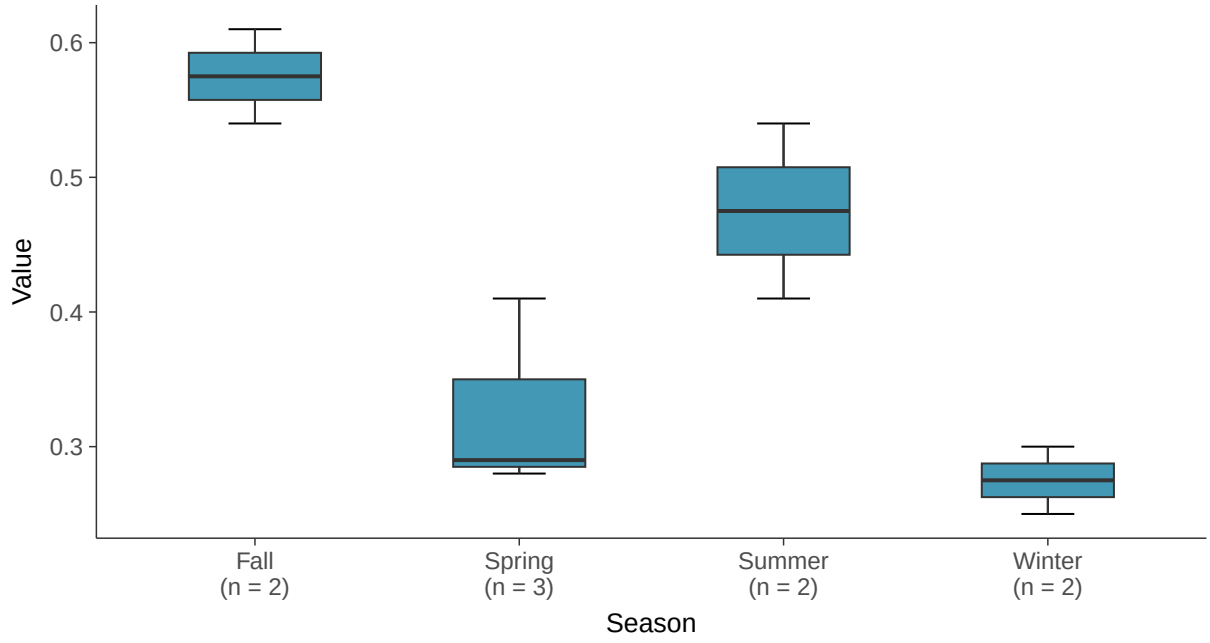
Boxplot

Boron, MW-36 (mg/L)



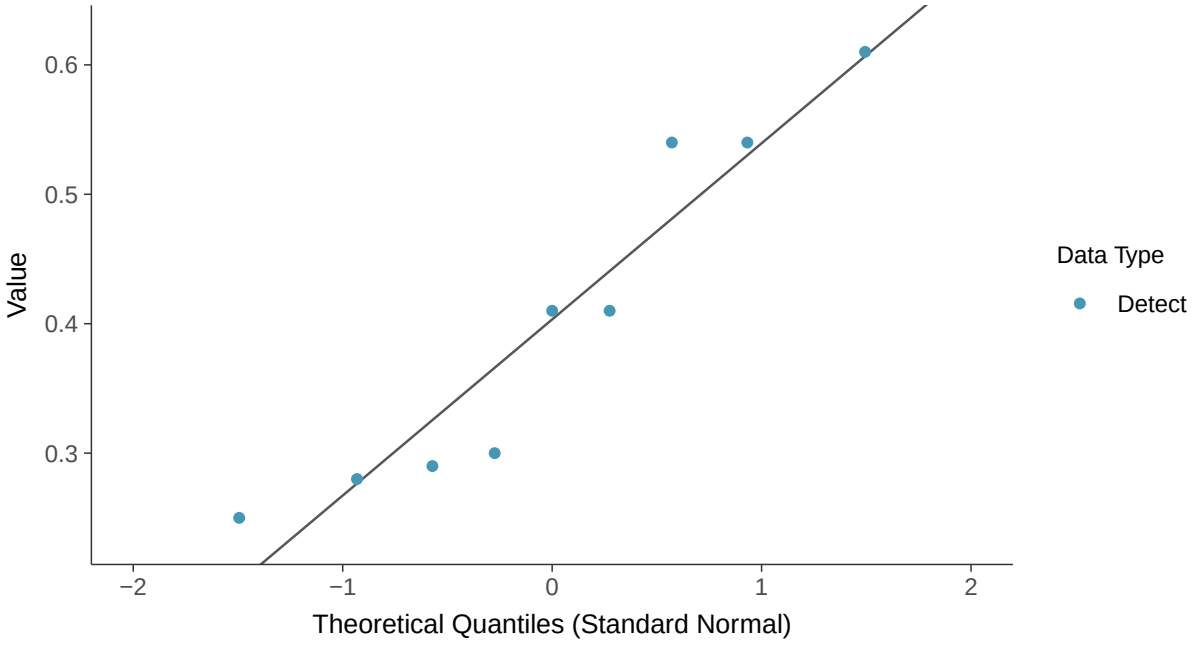
Boxplot by Season

Boron, MW-36 (mg/L)



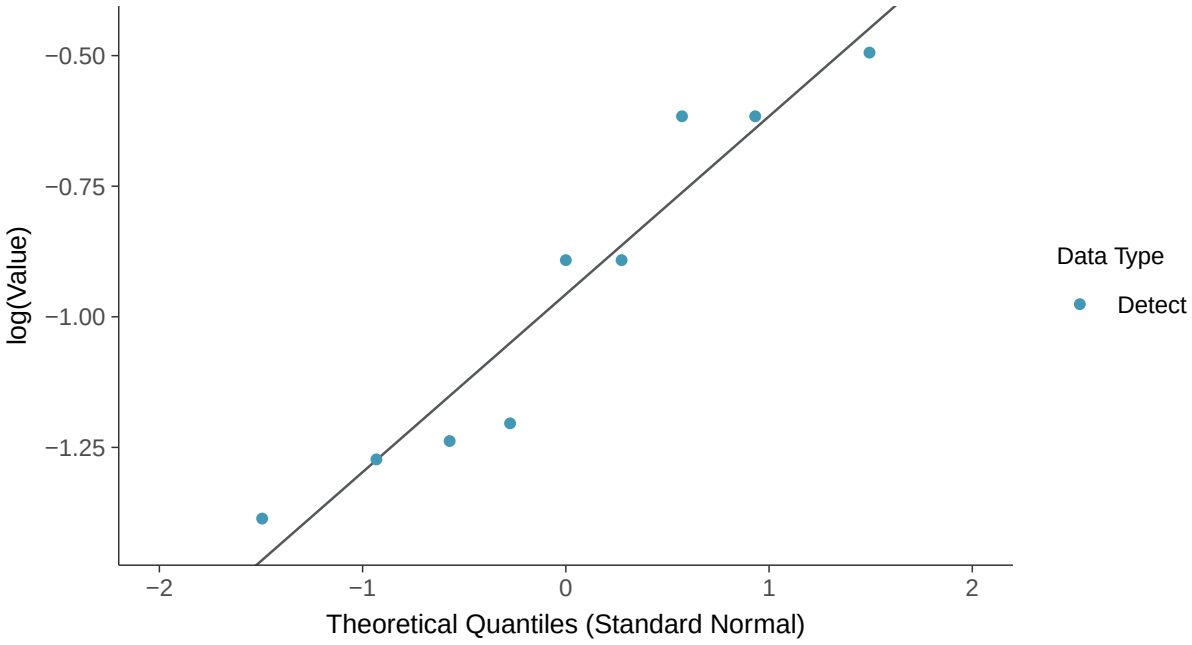
Normal Q-Q plot

Boron, MW-36 (mg/L)



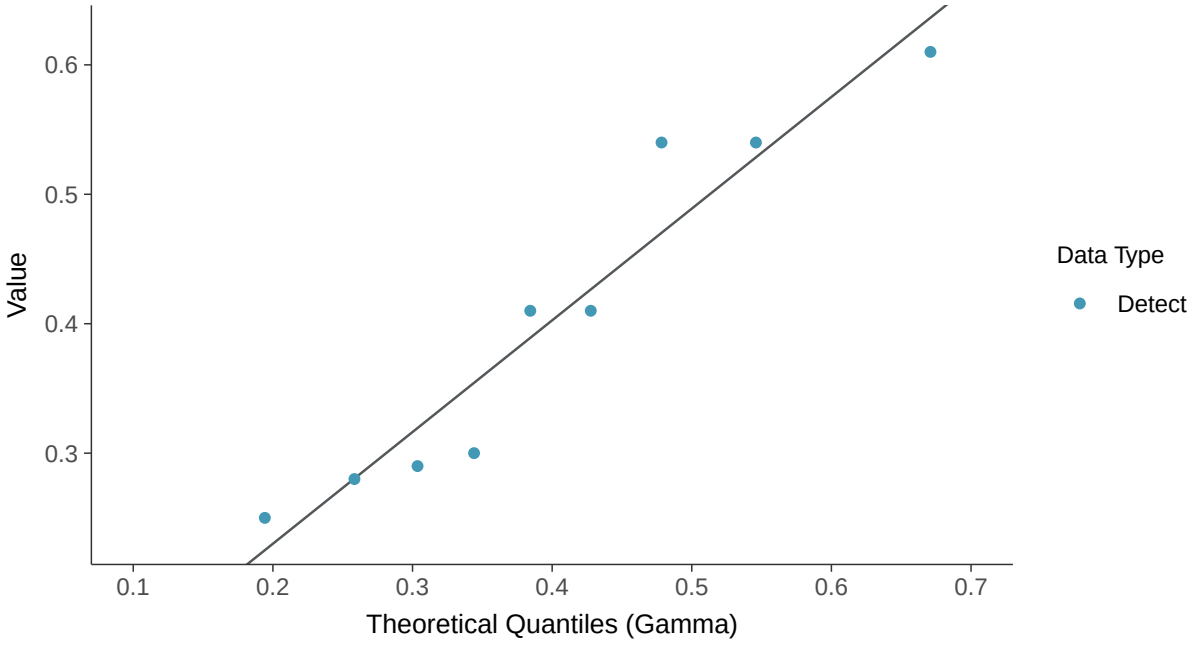
Lognormal Q-Q plot

Boron, MW-36 (mg/L)



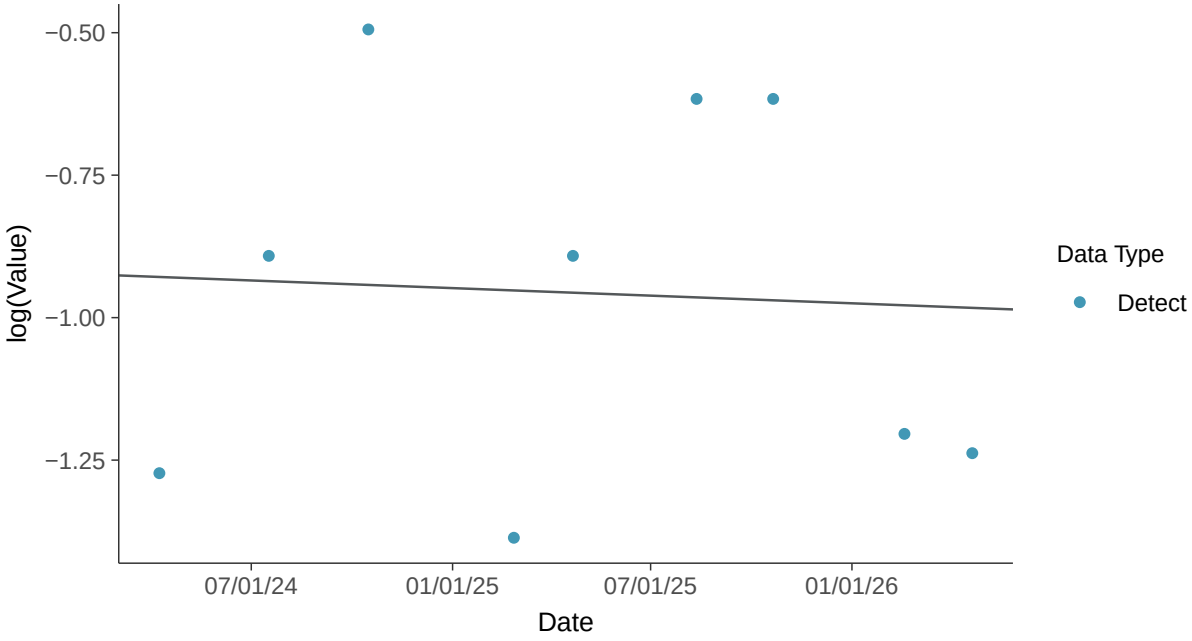
Gamma Q-Q plot

Boron, MW-36 (mg/L)



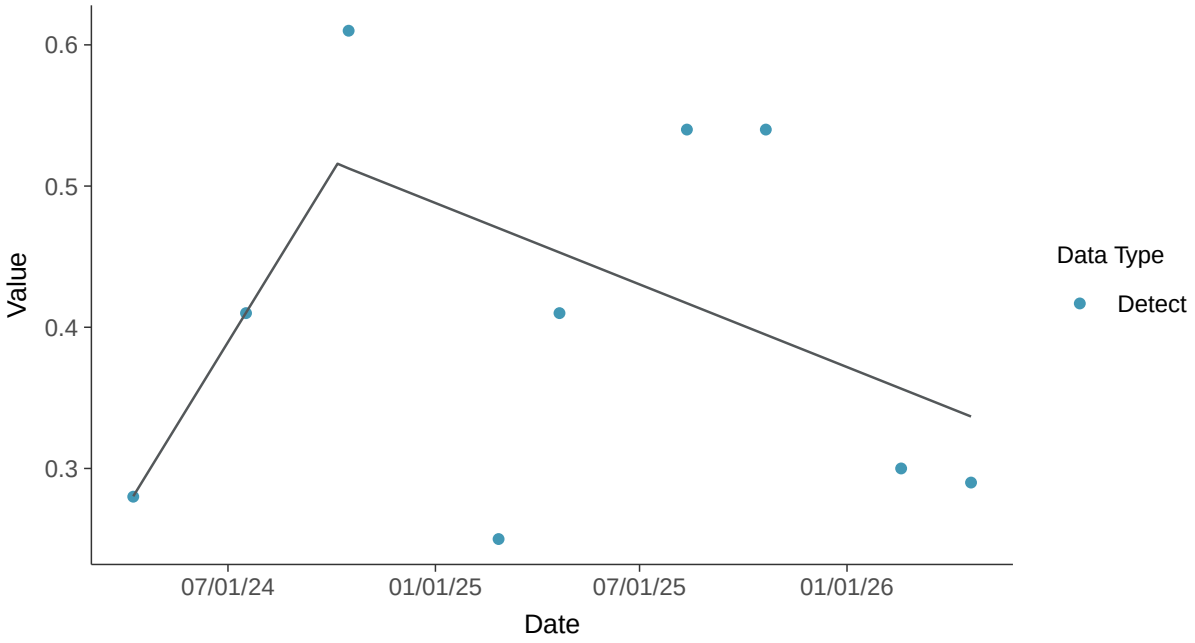
Trend Regression: Lognormal MLE

Boron, MW-36 (mg/L)



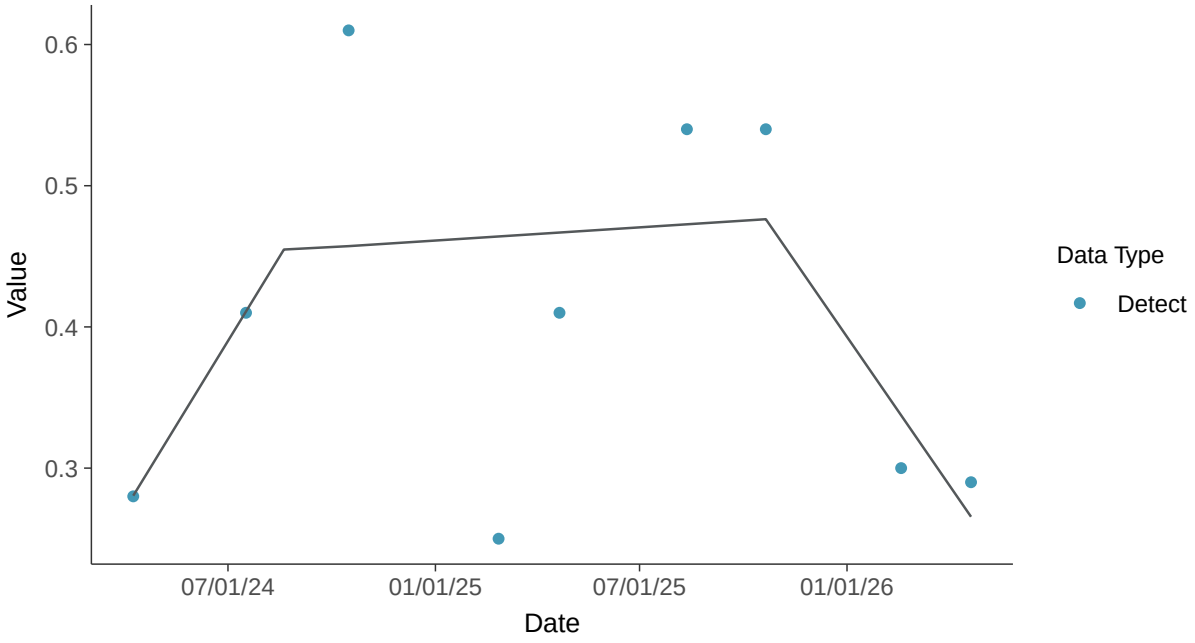
Trend Regression: Piecewise Linear-Linear

Boron, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Boron, MW-36 (mg/L)

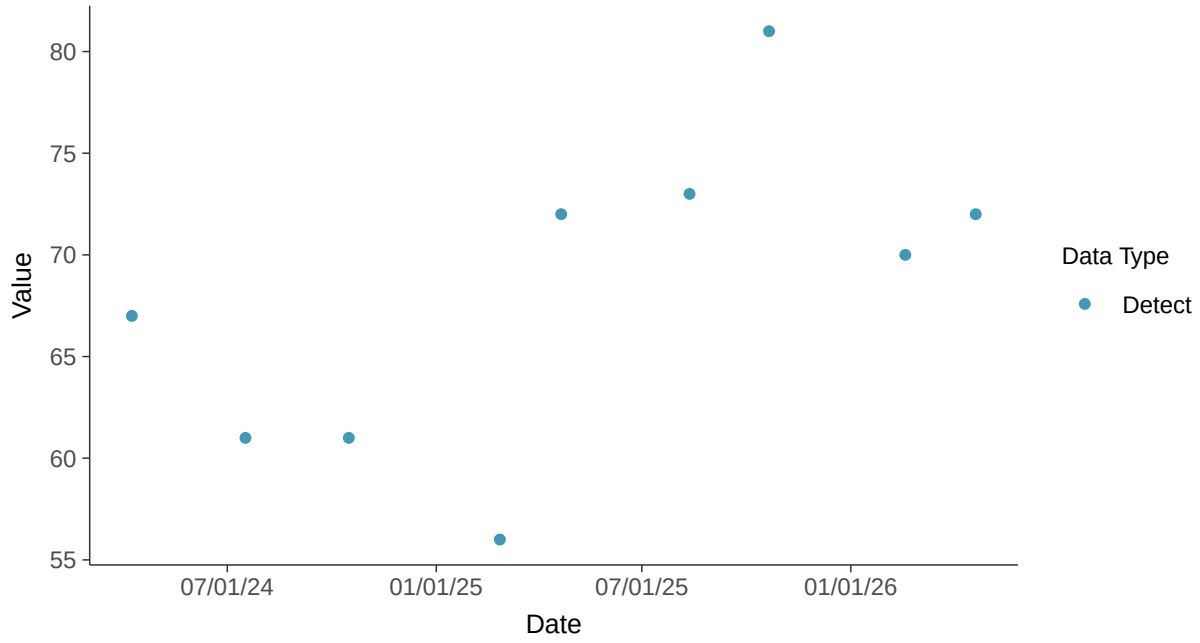


Appendix III: Calcium, MW-36

ID: 46_1_3_107

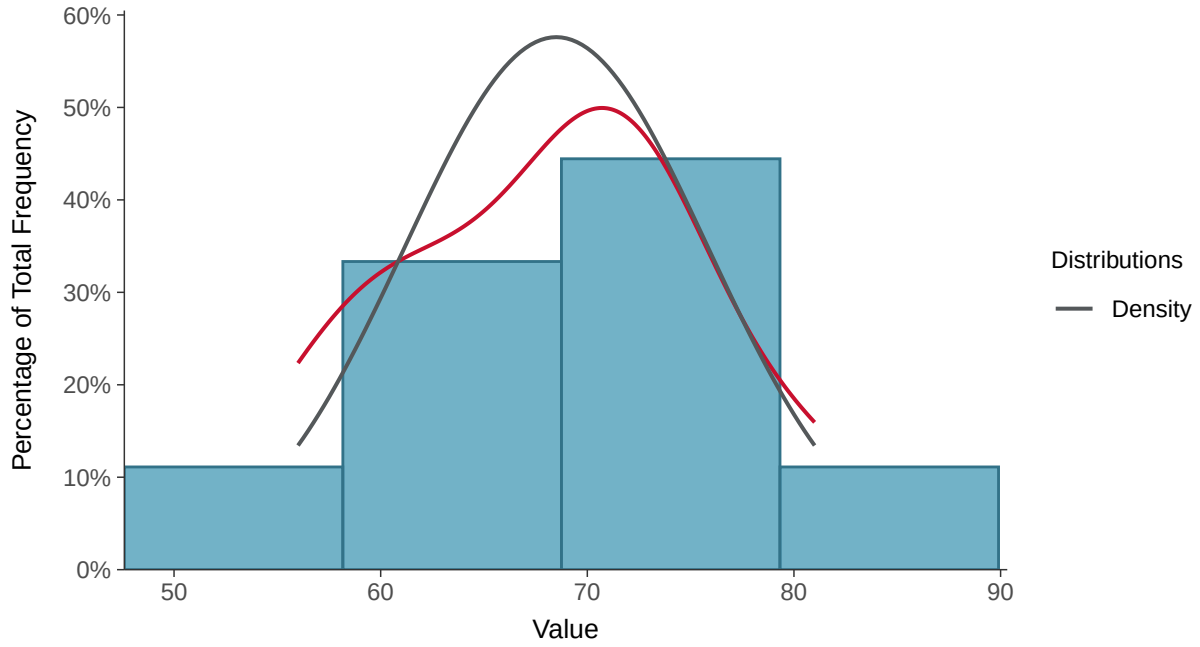
Scatter Plot

Calcium, MW-36 (mg/L)



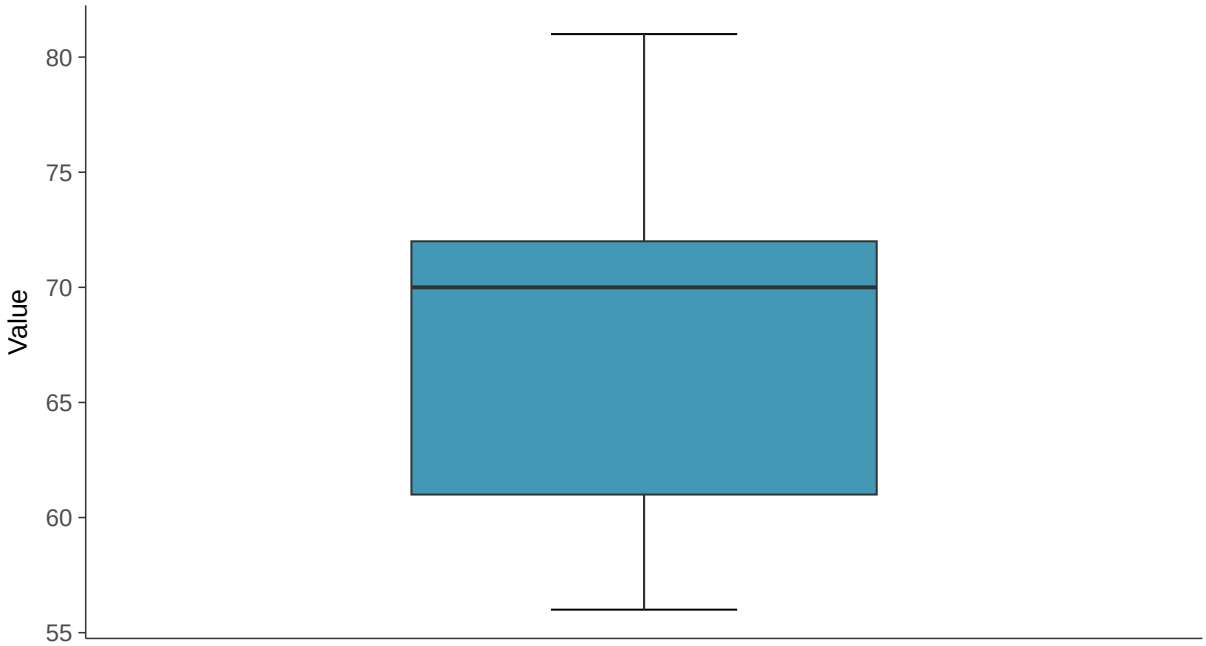
Histogram

Calcium, MW-36 (mg/L)



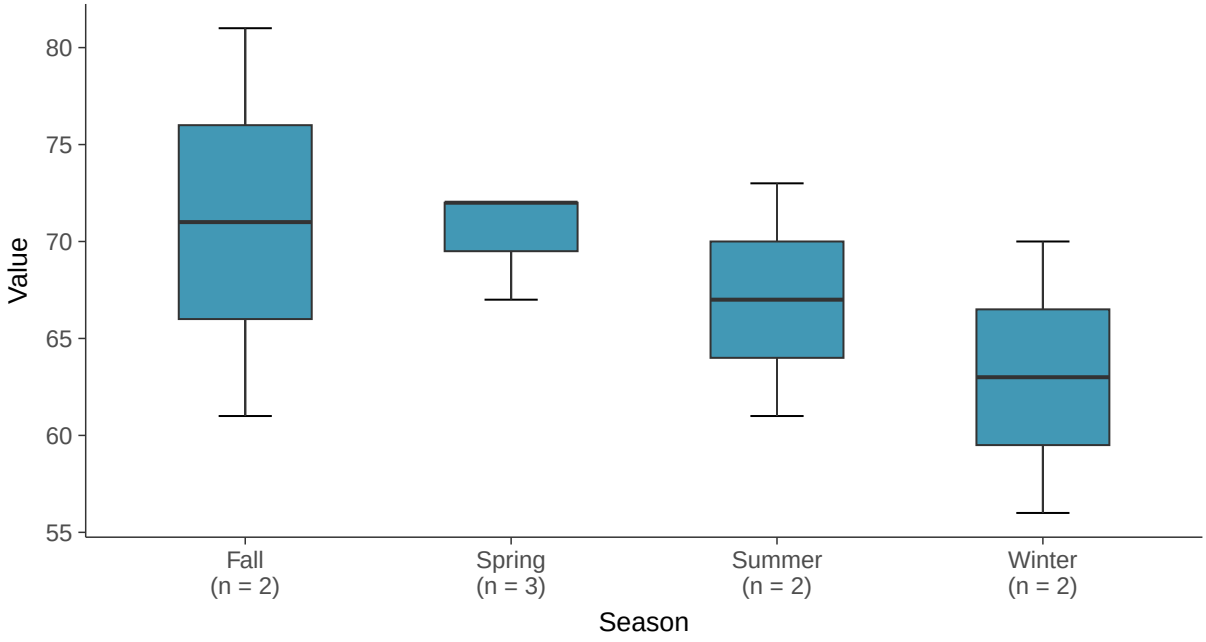
Boxplot

Calcium, MW-36 (mg/L)



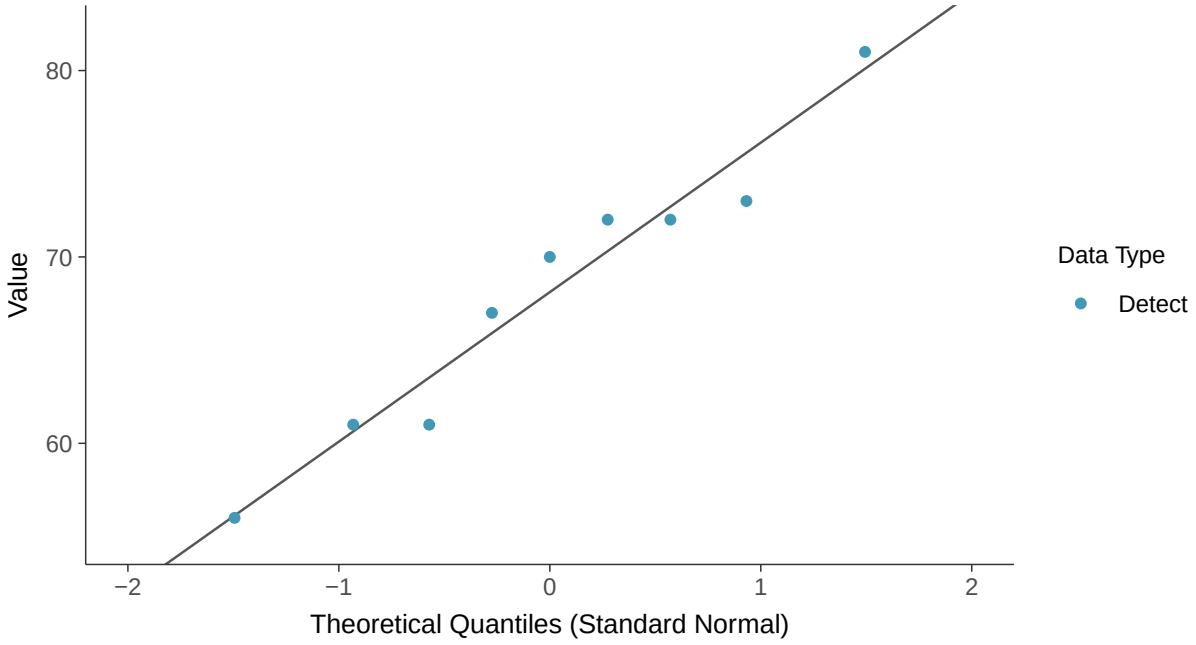
Boxplot by Season

Calcium, MW-36 (mg/L)



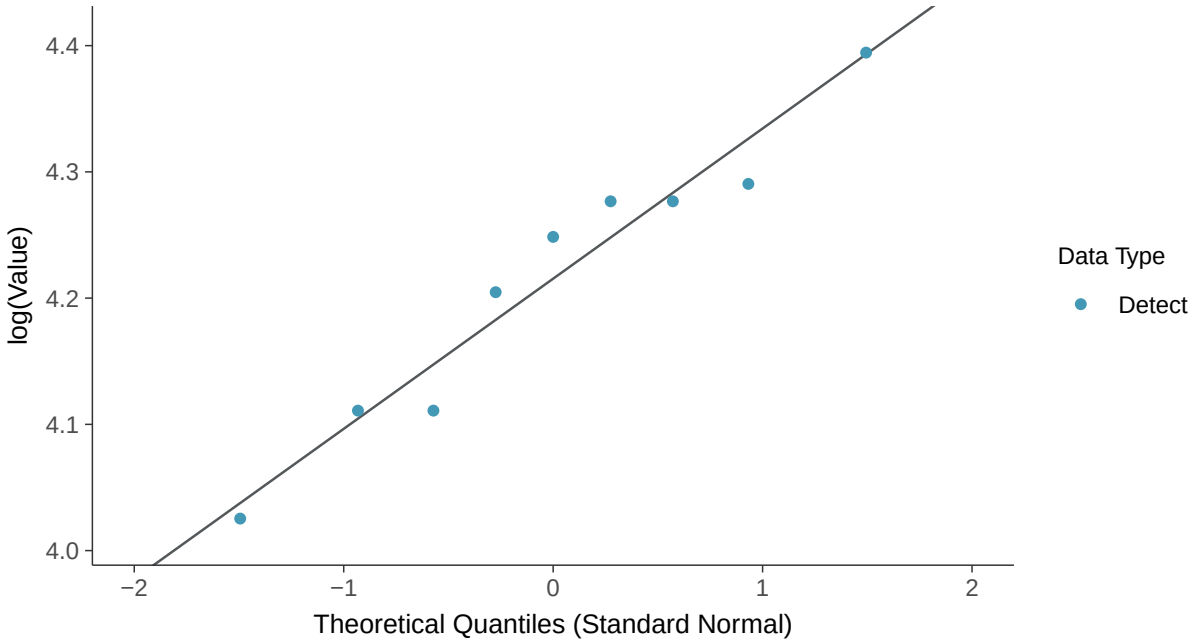
Normal Q-Q plot

Calcium, MW-36 (mg/L)



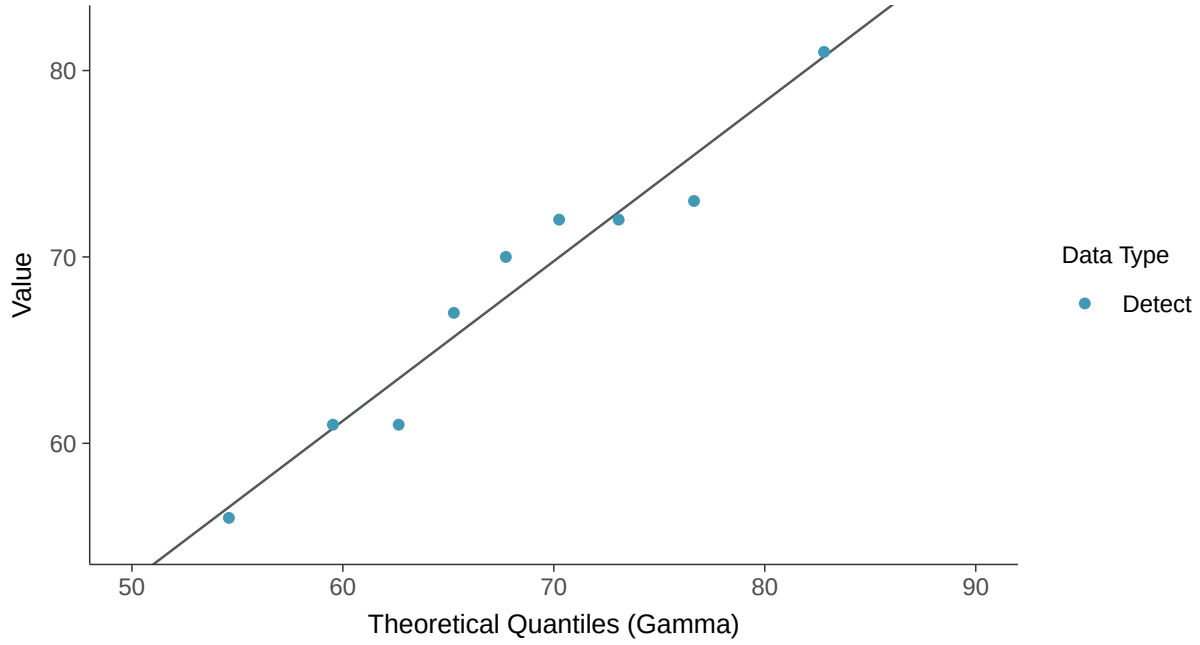
Lognormal Q-Q plot

Calcium, MW-36 (mg/L)



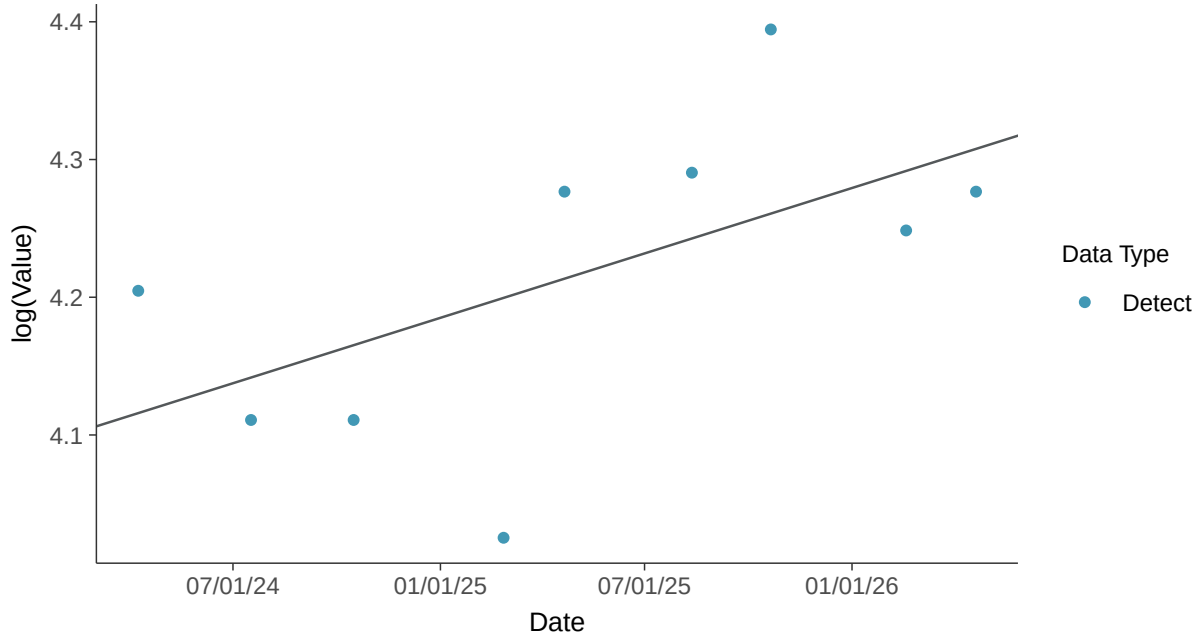
Gamma Q-Q plot

Calcium, MW-36 (mg/L)



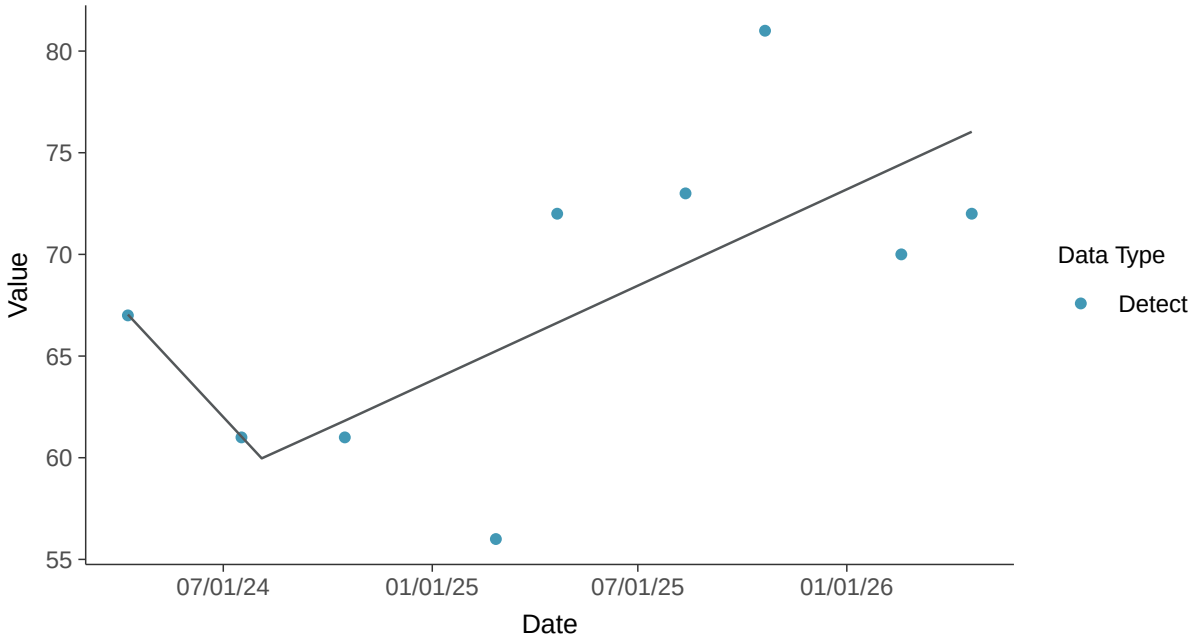
Trend Regression: Lognormal MLE

Calcium, MW-36 (mg/L)



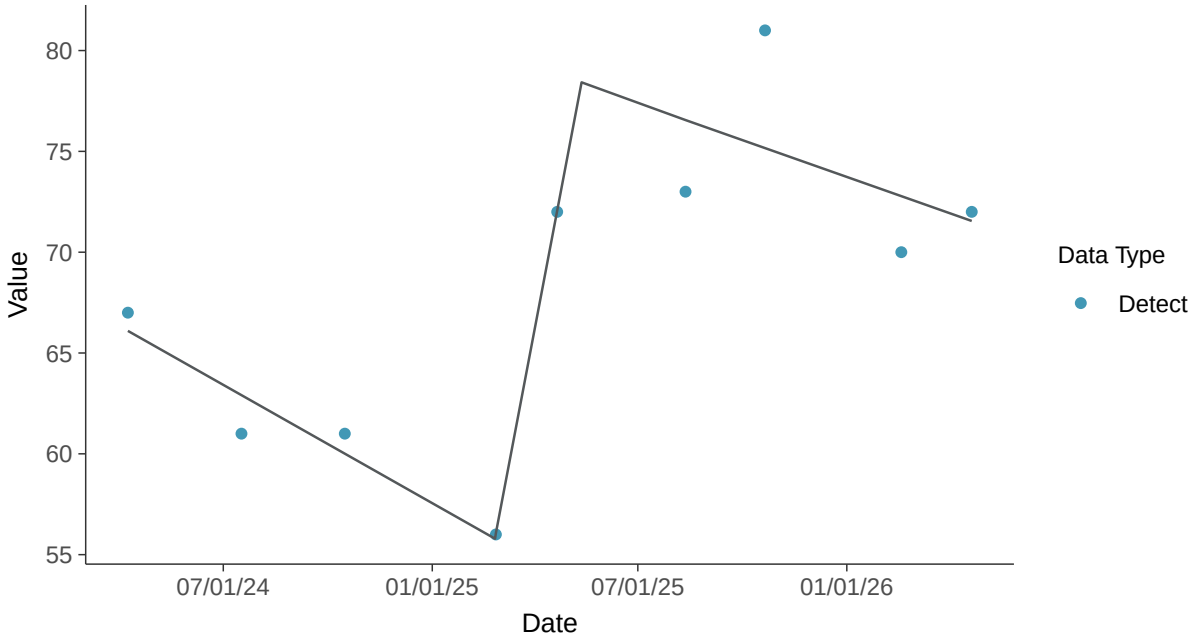
Trend Regression: Piecewise Linear-Linear

Calcium, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Calcium, MW-36 (mg/L)

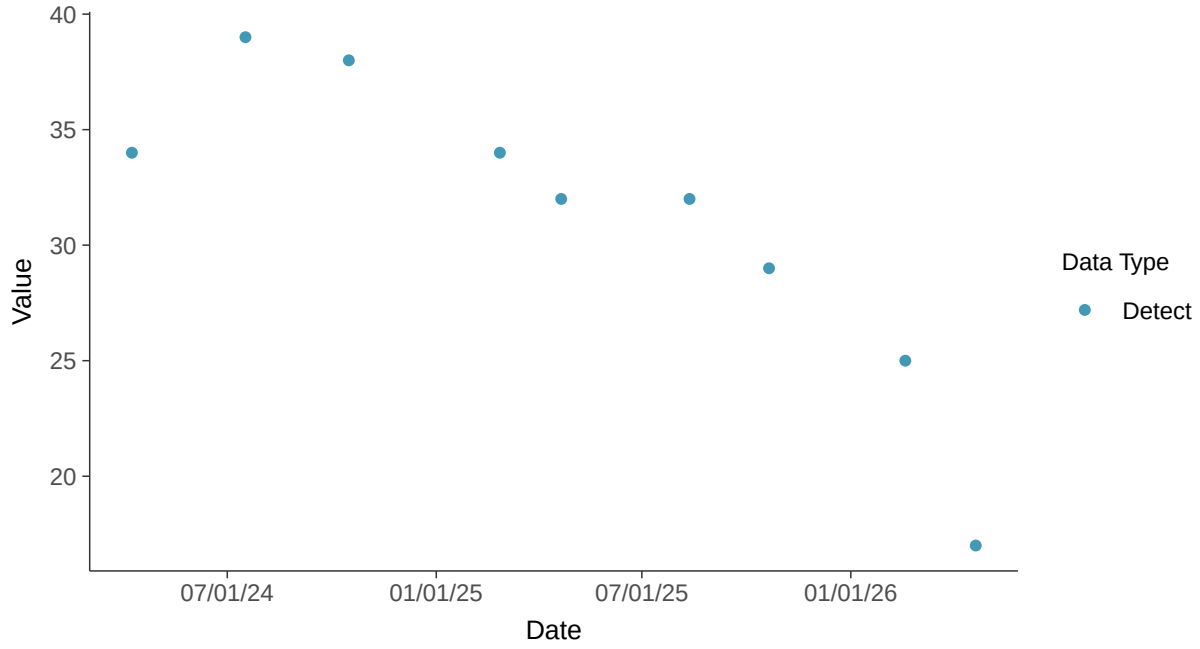


Appendix III: Chloride (as Cl), MW-36

ID: 46_1_3_108

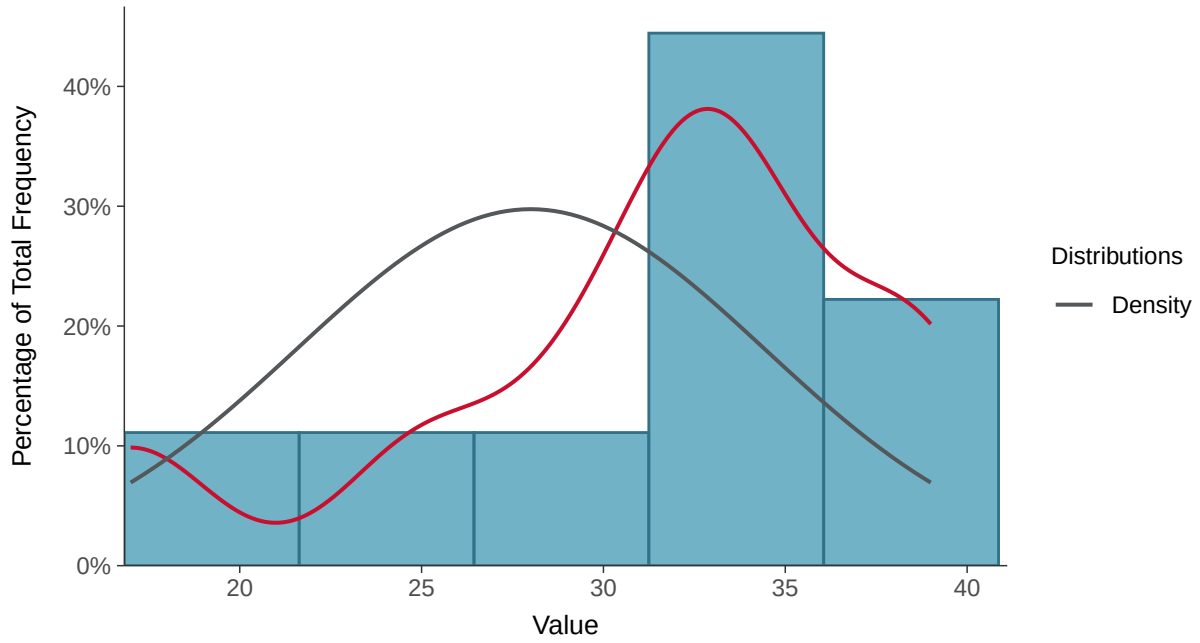
Scatter Plot

Chloride (as Cl), MW-36 (mg/L)



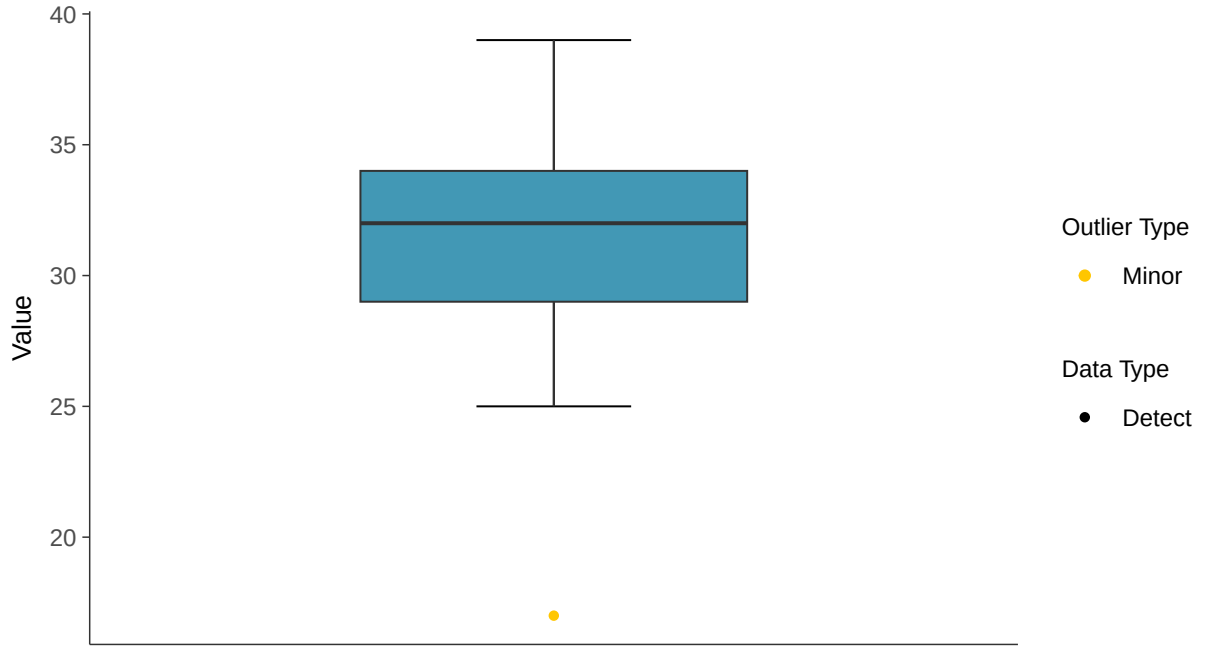
Histogram

Chloride (as Cl), MW-36 (mg/L)



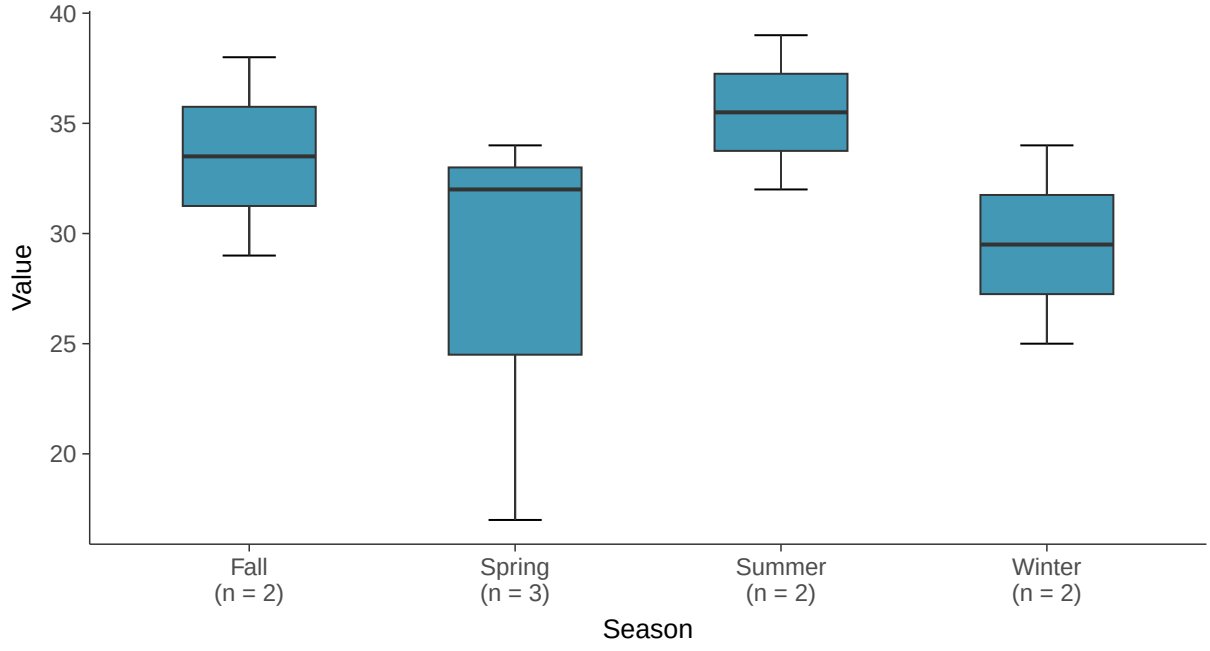
Boxplot

Chloride (as Cl), MW-36 (mg/L)



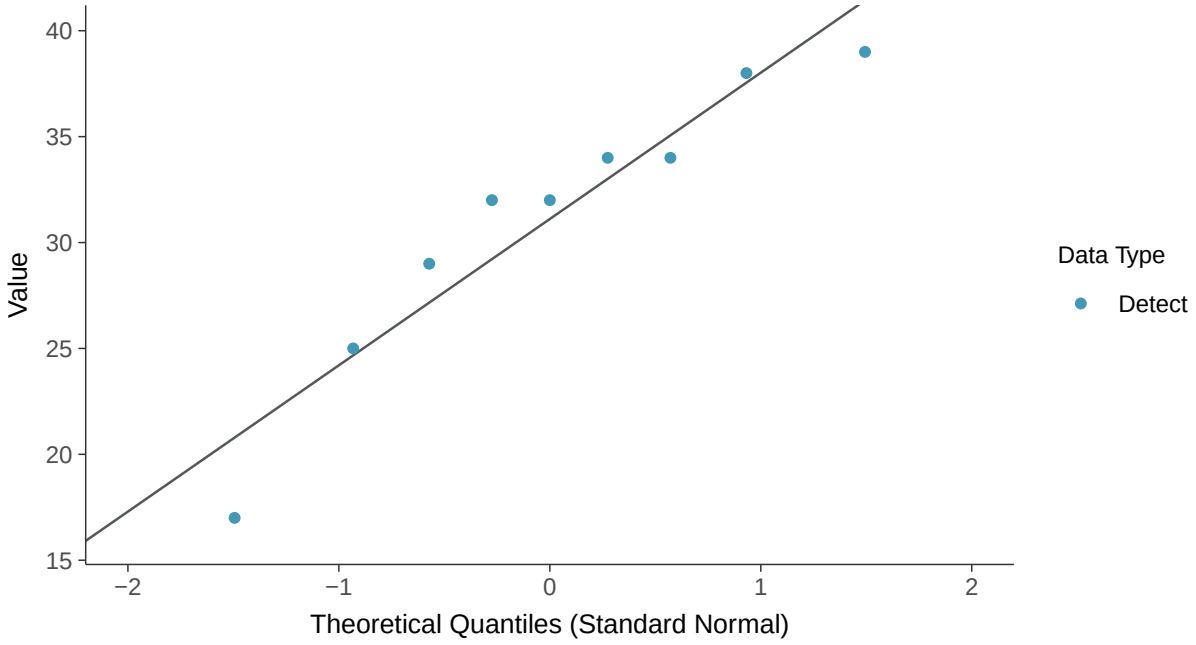
Boxplot by Season

Chloride (as Cl), MW-36 (mg/L)



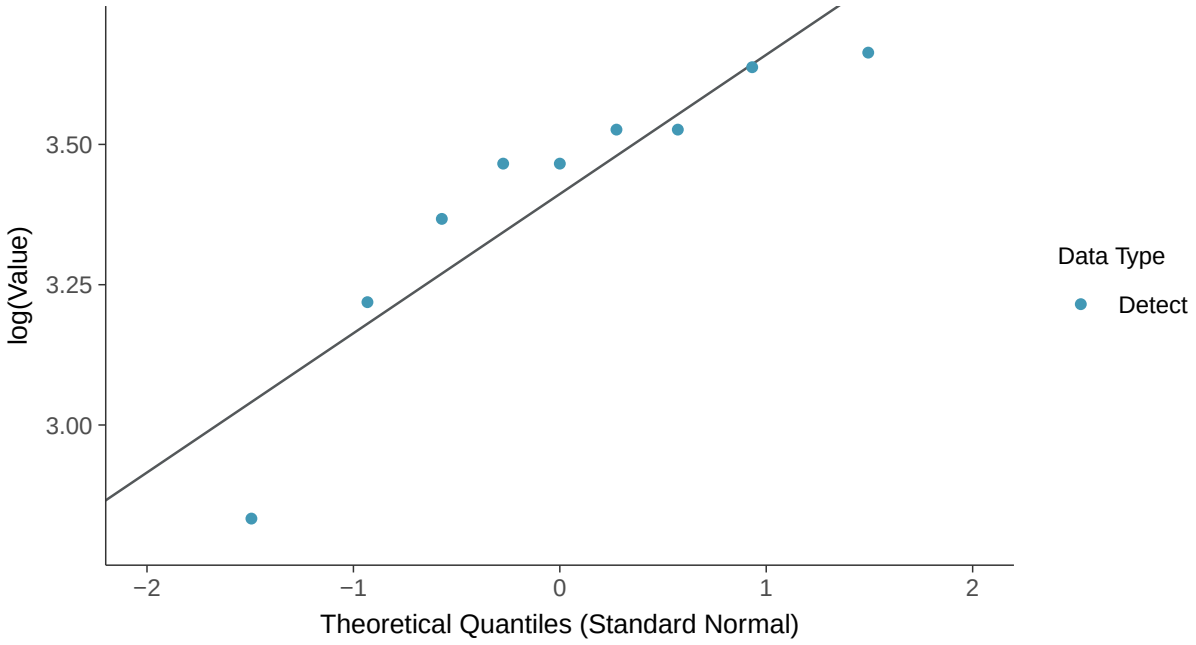
Normal Q-Q plot

Chloride (as Cl), MW-36 (mg/L)



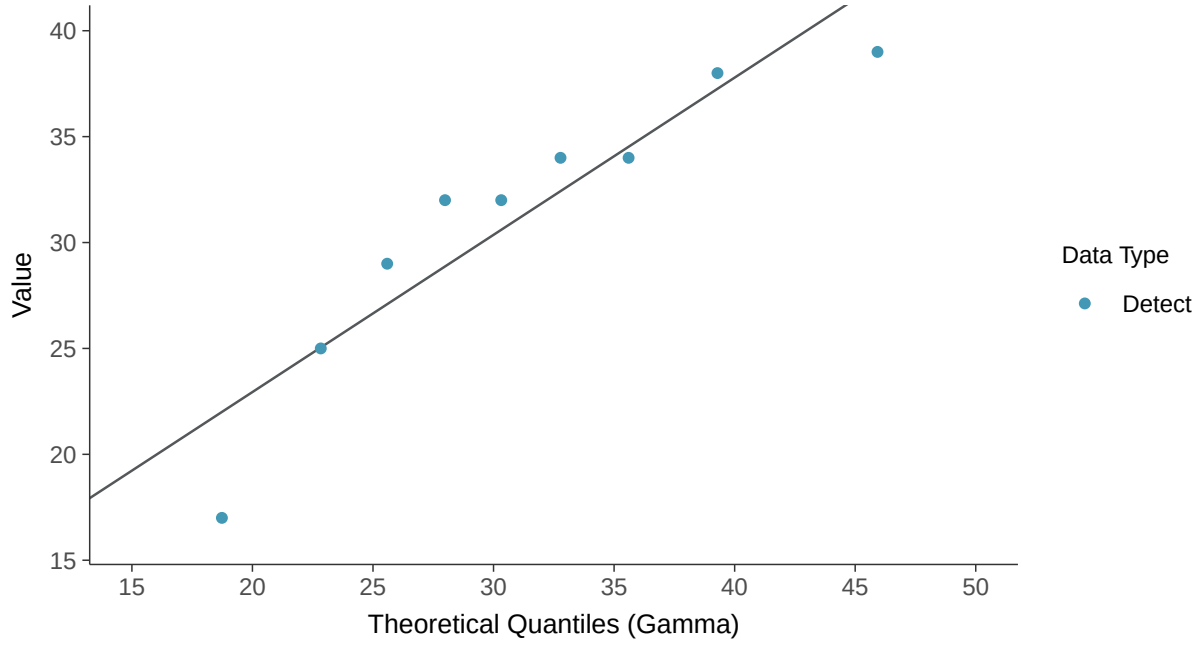
Lognormal Q-Q plot

Chloride (as Cl), MW-36 (mg/L)



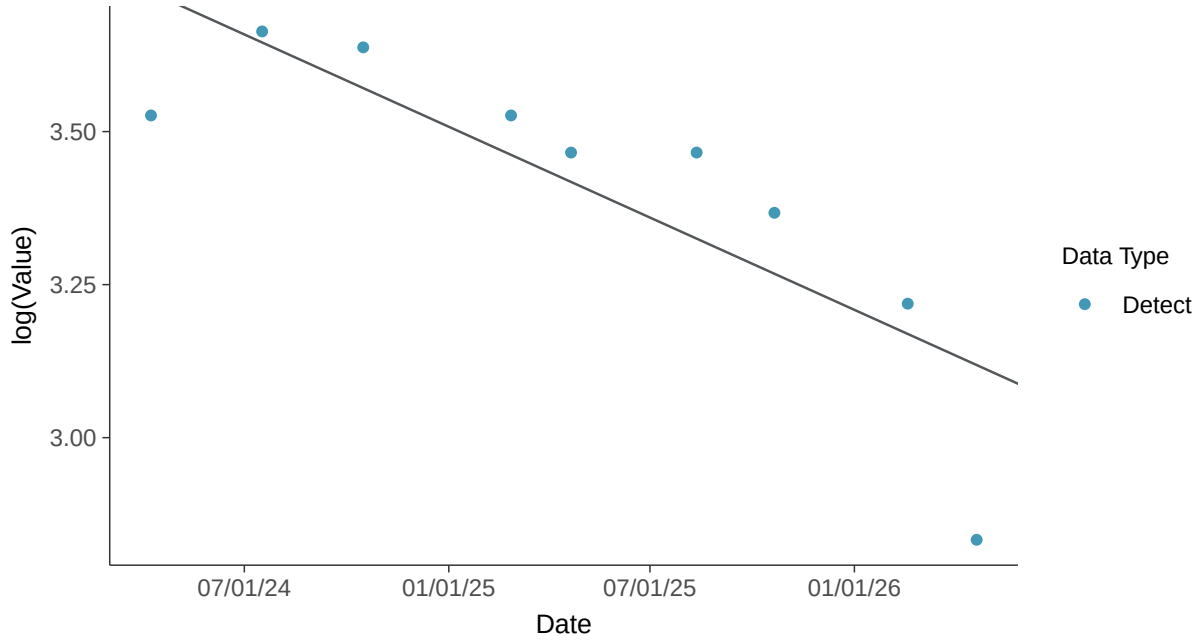
Gamma Q-Q plot

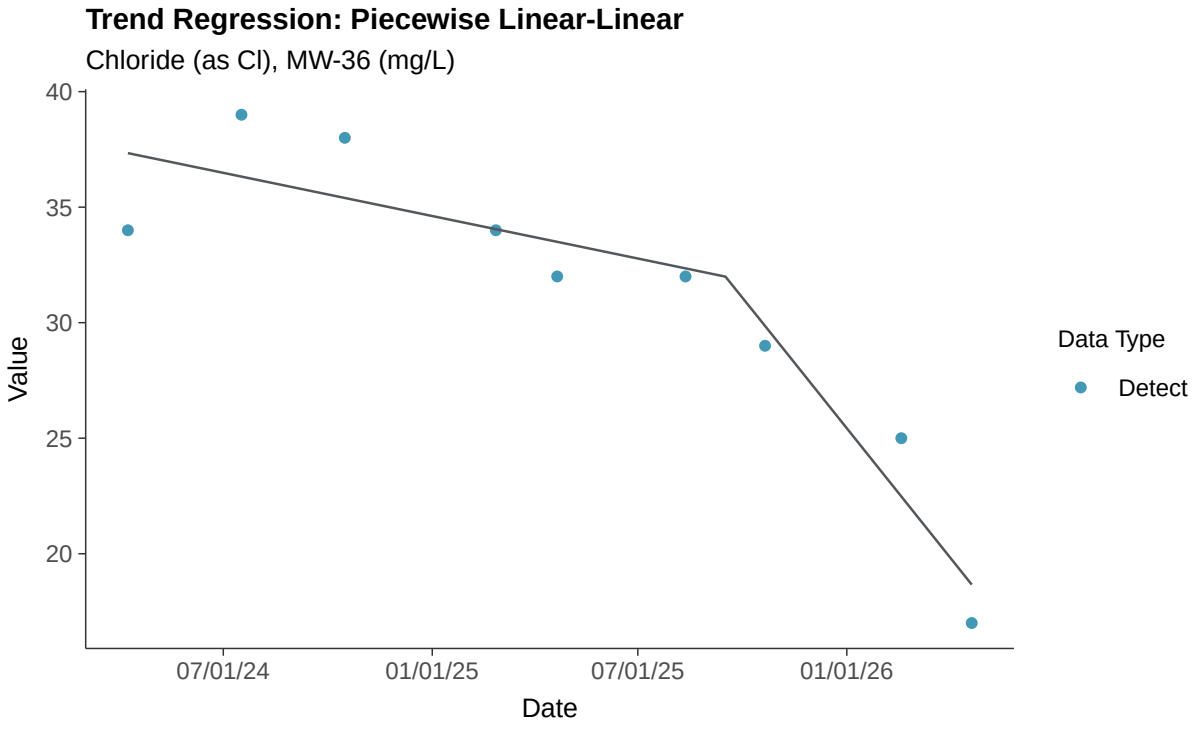
Chloride (as Cl), MW-36 (mg/L)



Trend Regression: Lognormal MLE

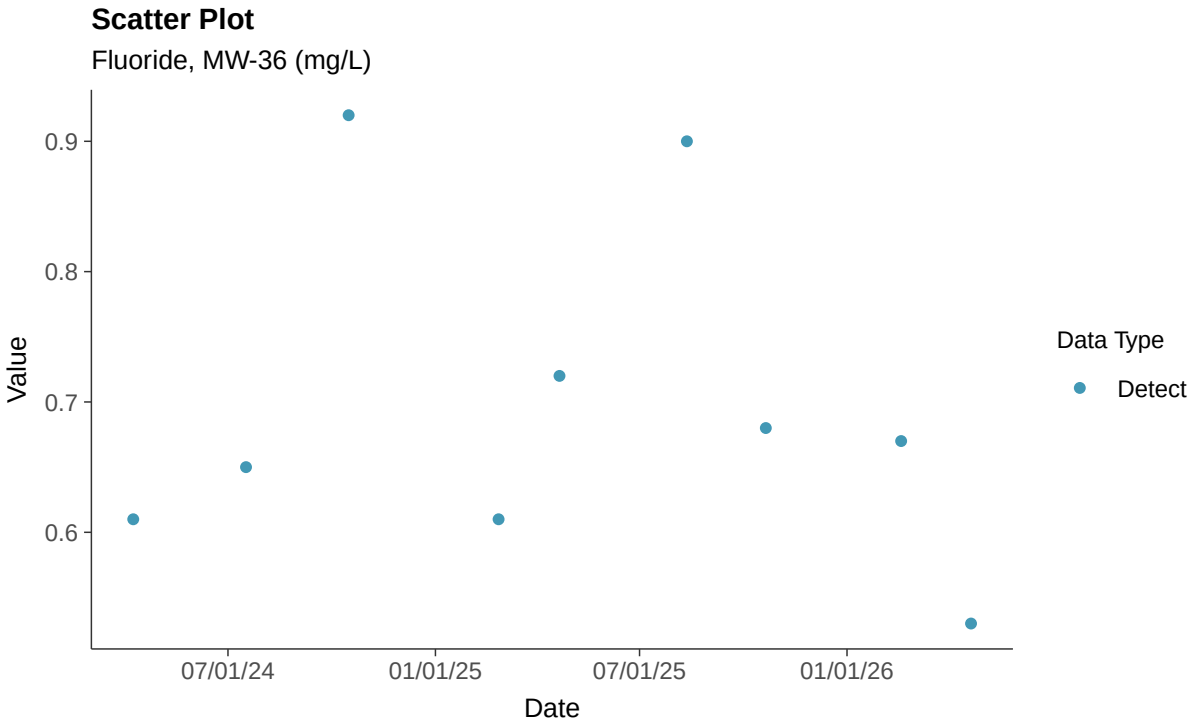
Chloride (as Cl), MW-36 (mg/L)

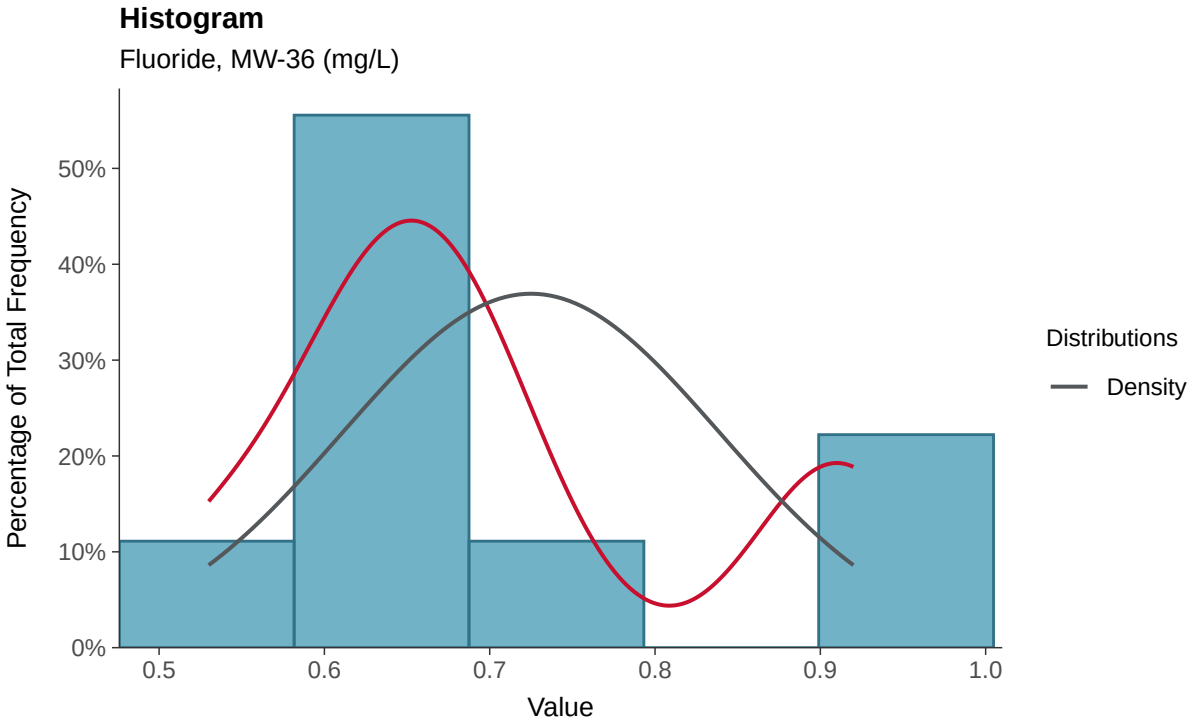



Trend Regression: Piecewise Linear-Linear
Chloride (as Cl), MW-36 (mg/L)
Value
40
35
30
25
20
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Fluoride, MW-36

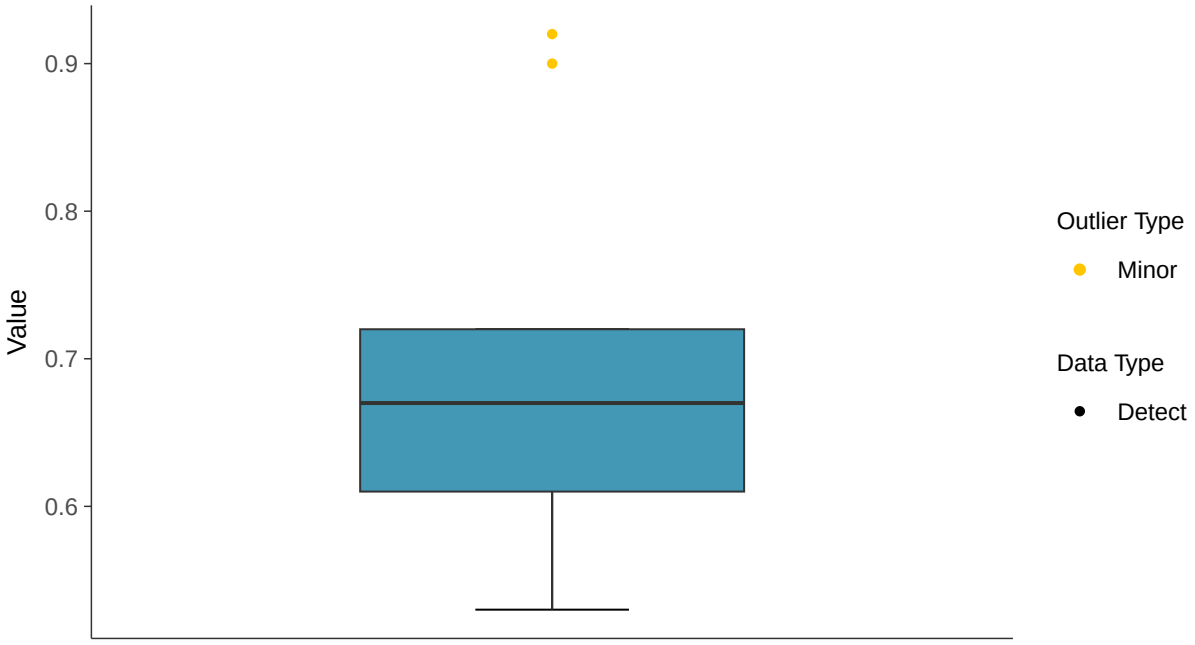
ID: 46_1_3_112





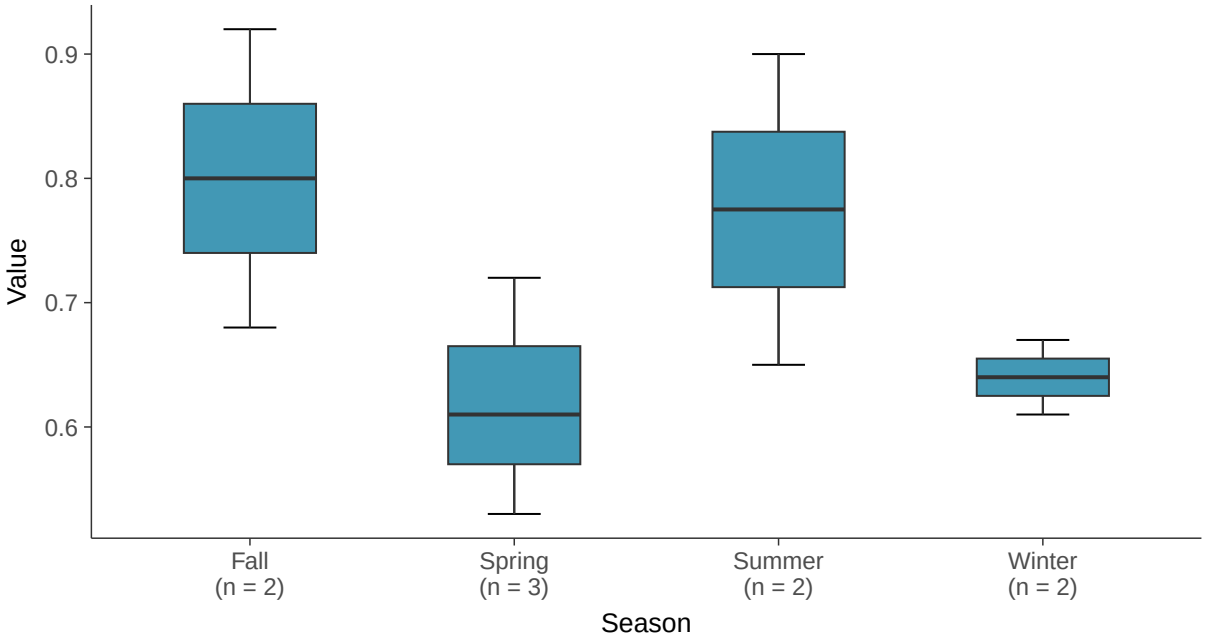
Boxplot

Fluoride, MW-36 (mg/L)



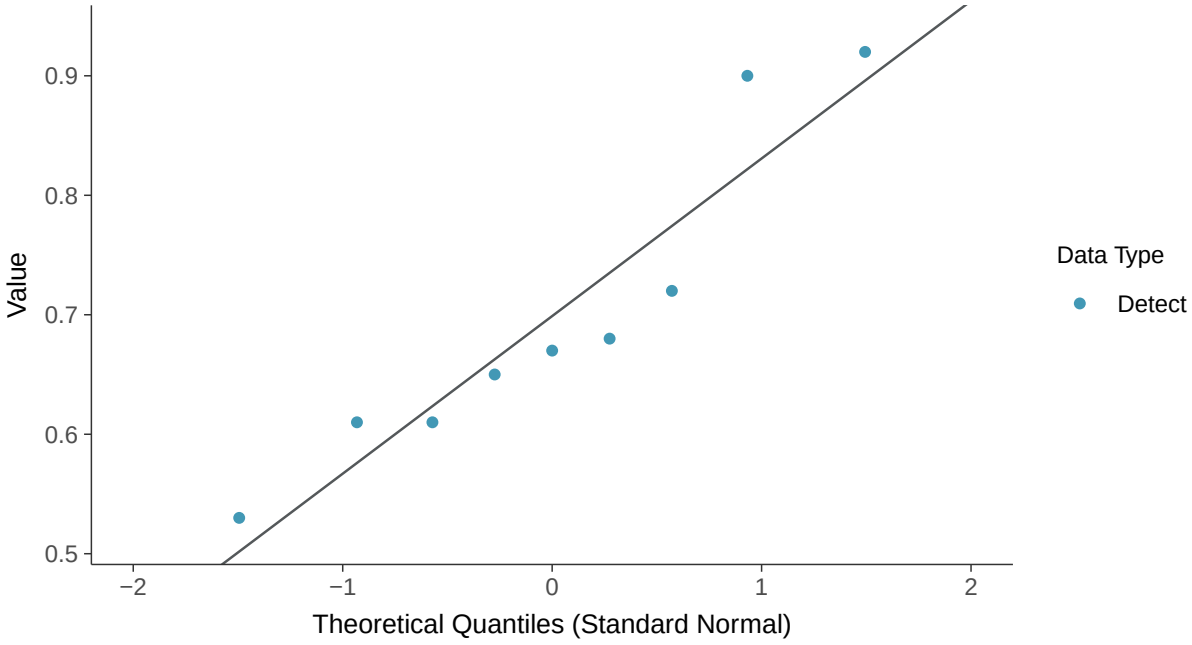
Boxplot by Season

Fluoride, MW-36 (mg/L)



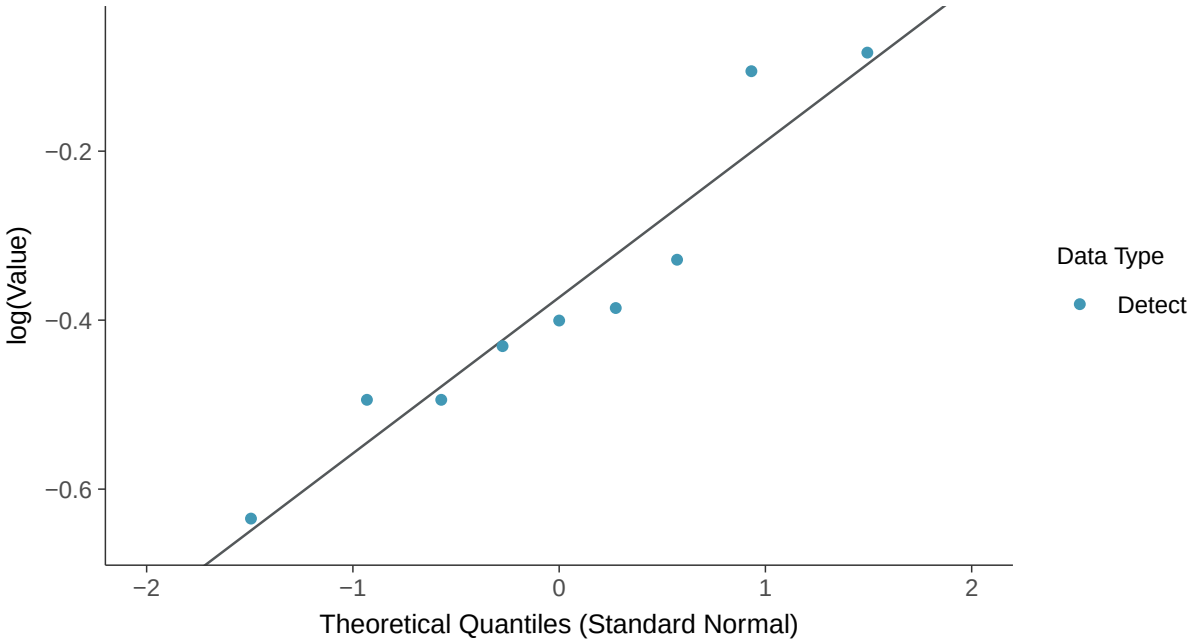
Normal Q-Q plot

Fluoride, MW-36 (mg/L)



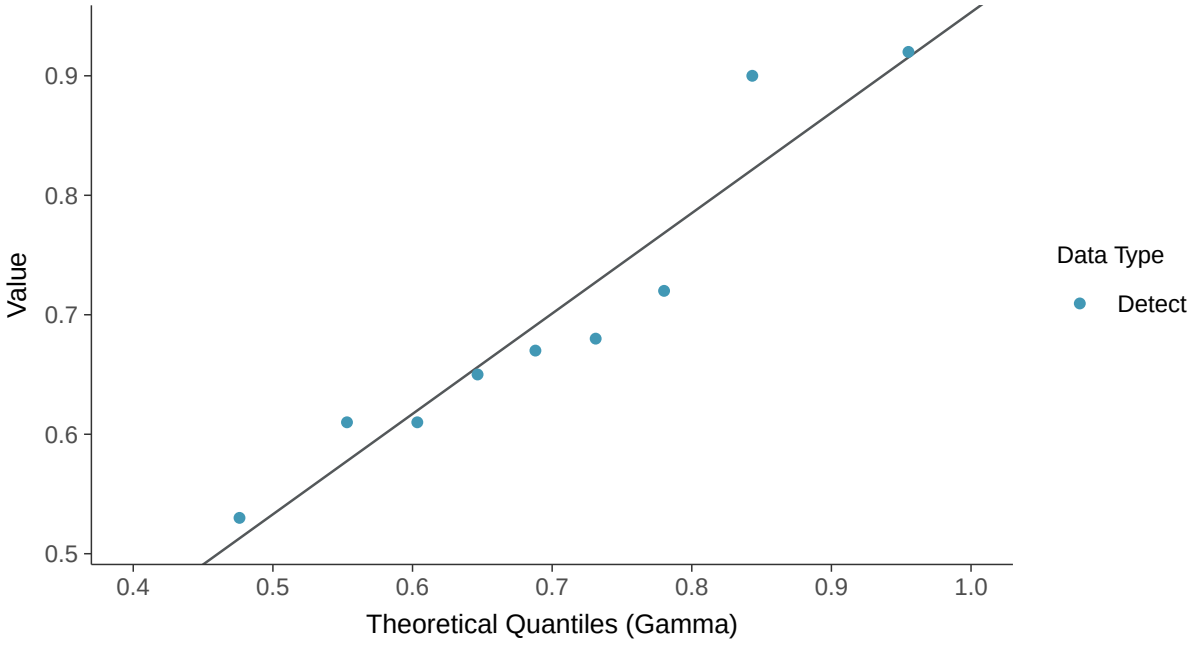
Lognormal Q-Q plot

Fluoride, MW-36 (mg/L)



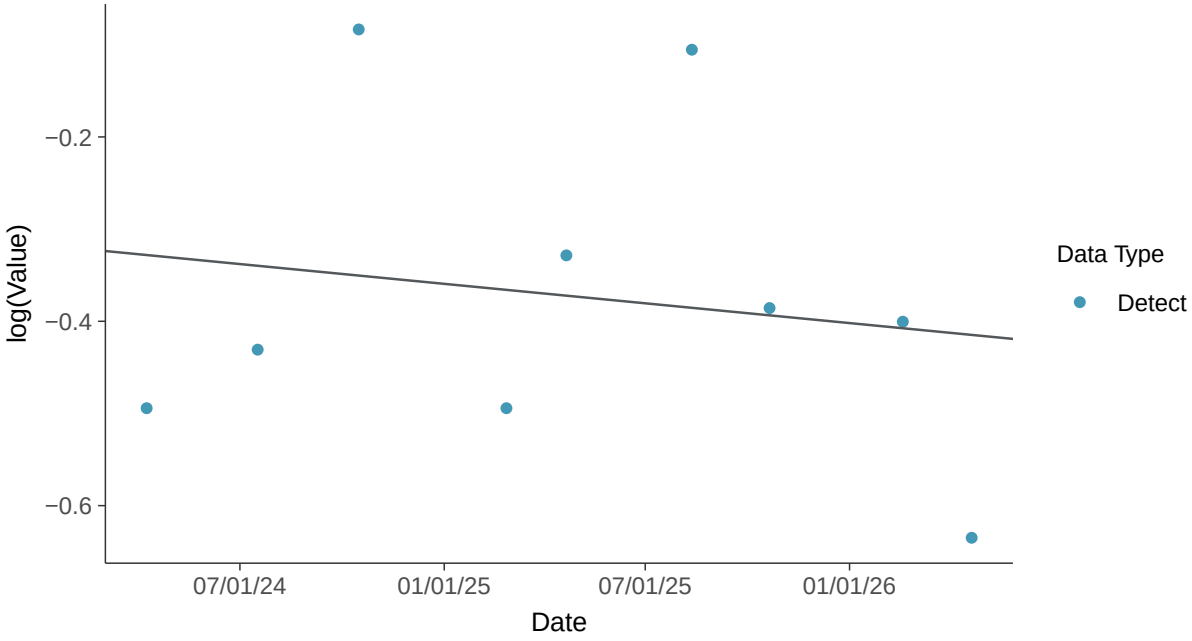
Gamma Q-Q plot

Fluoride, MW-36 (mg/L)



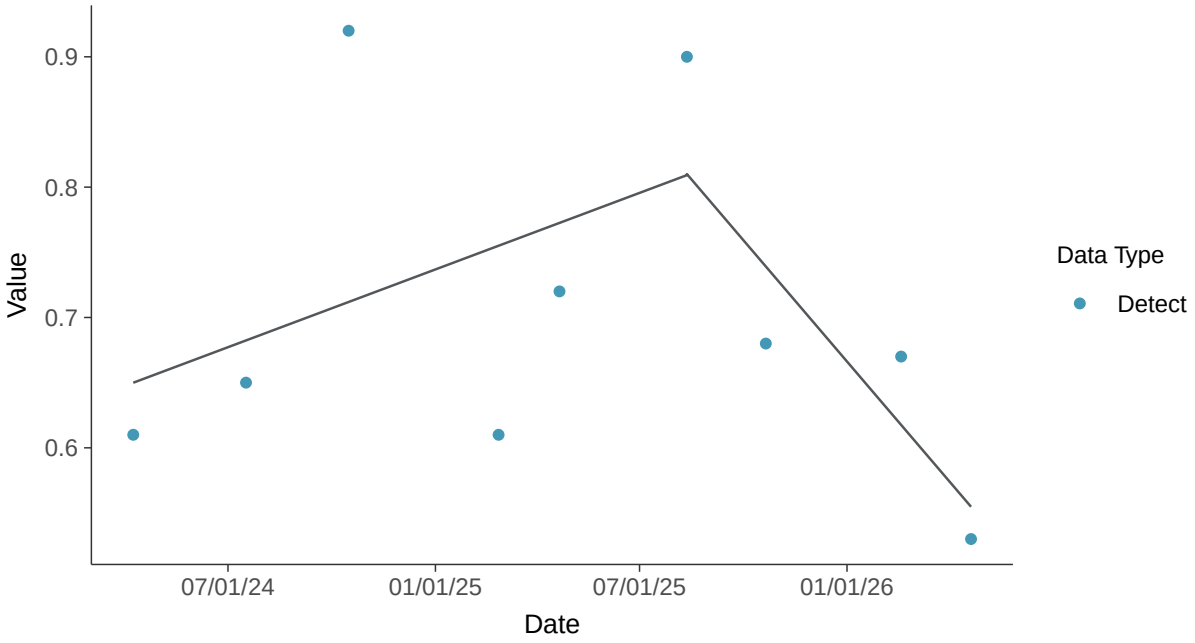
Trend Regression: Lognormal MLE

Fluoride, MW-36 (mg/L)



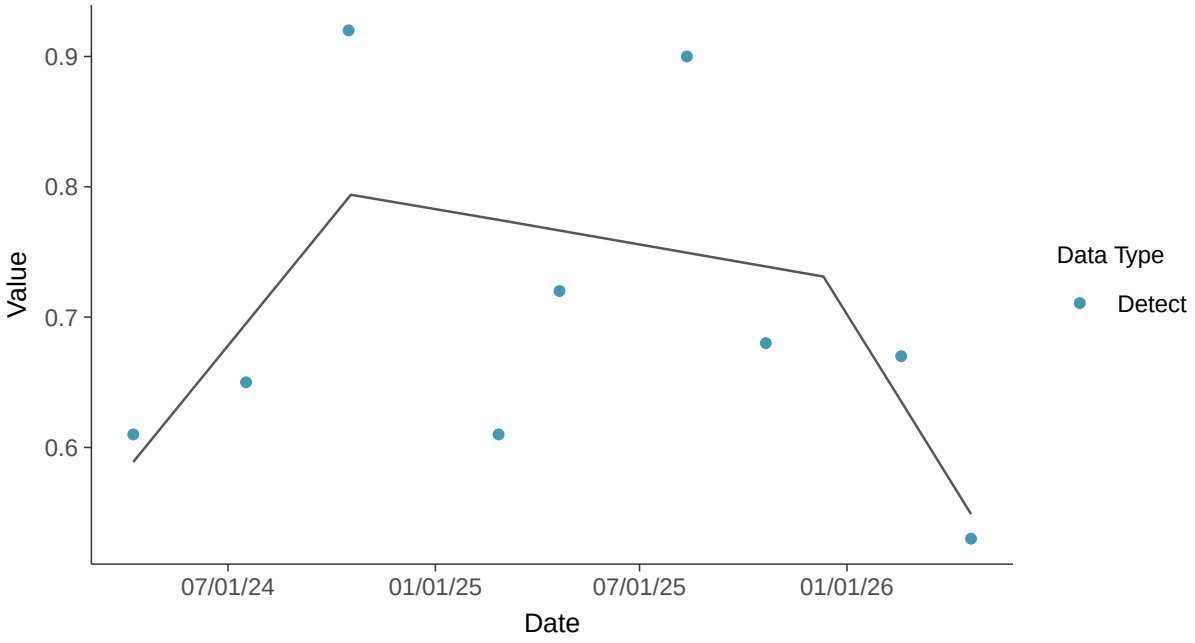
Trend Regression: Piecewise Linear-Linear

Fluoride, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-36 (mg/L)

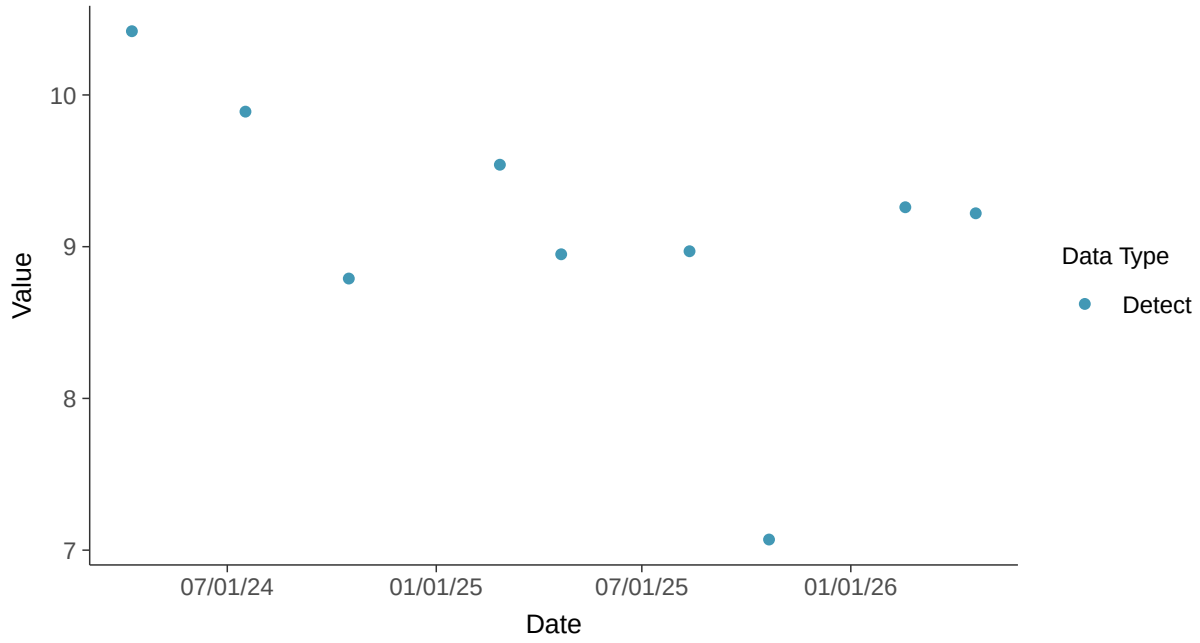


Appendix III: pH (field), MW-36

ID: 46_1_3_120

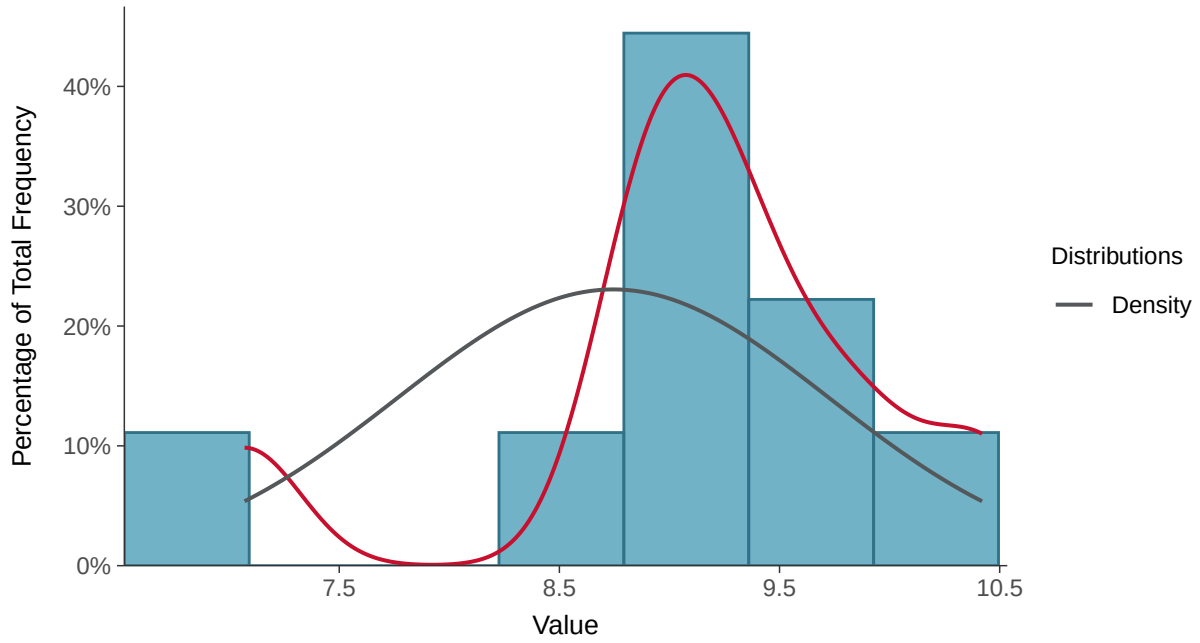
Scatter Plot

pH (field), MW-36 (su)



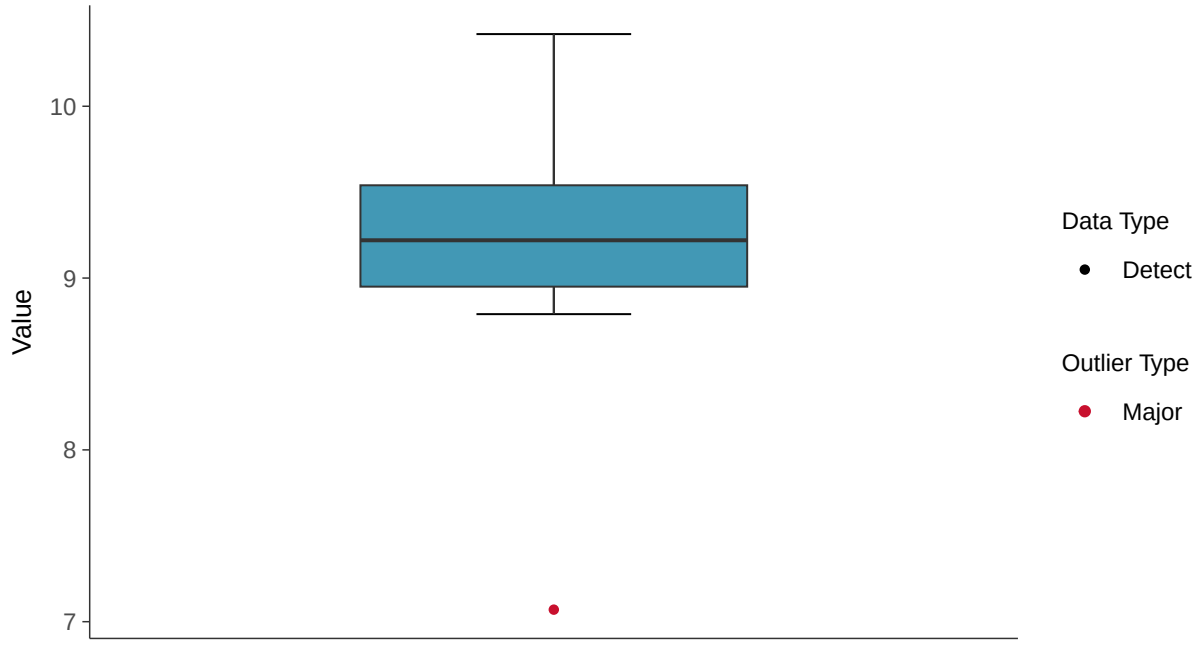
Histogram

pH (field), MW-36 (su)



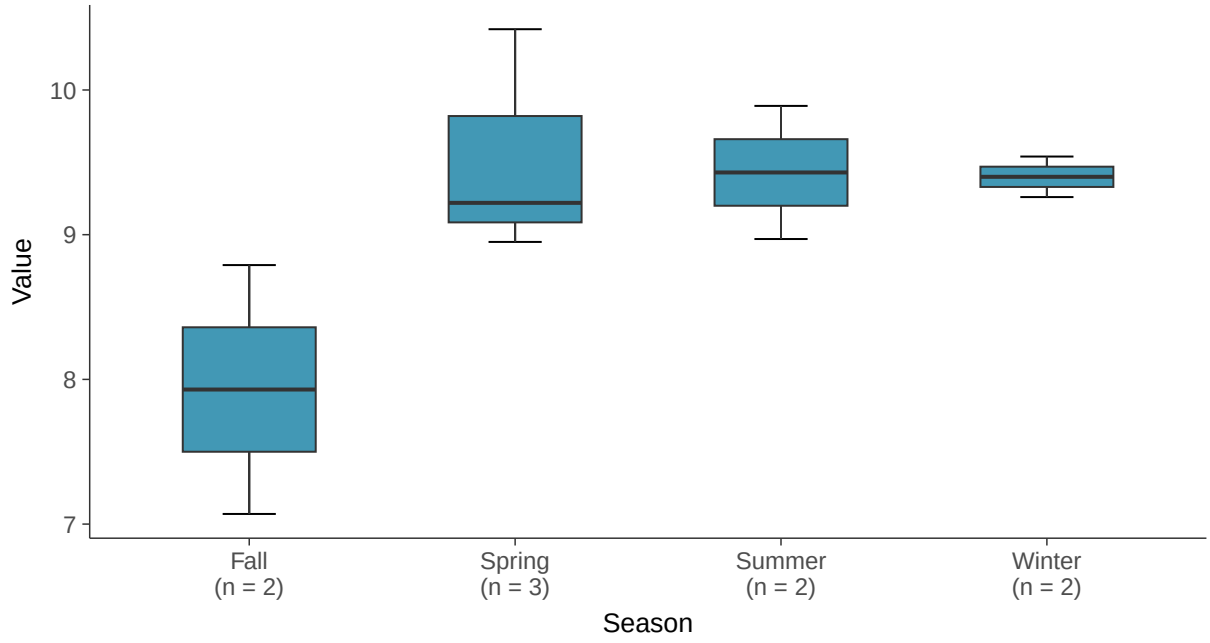
Boxplot

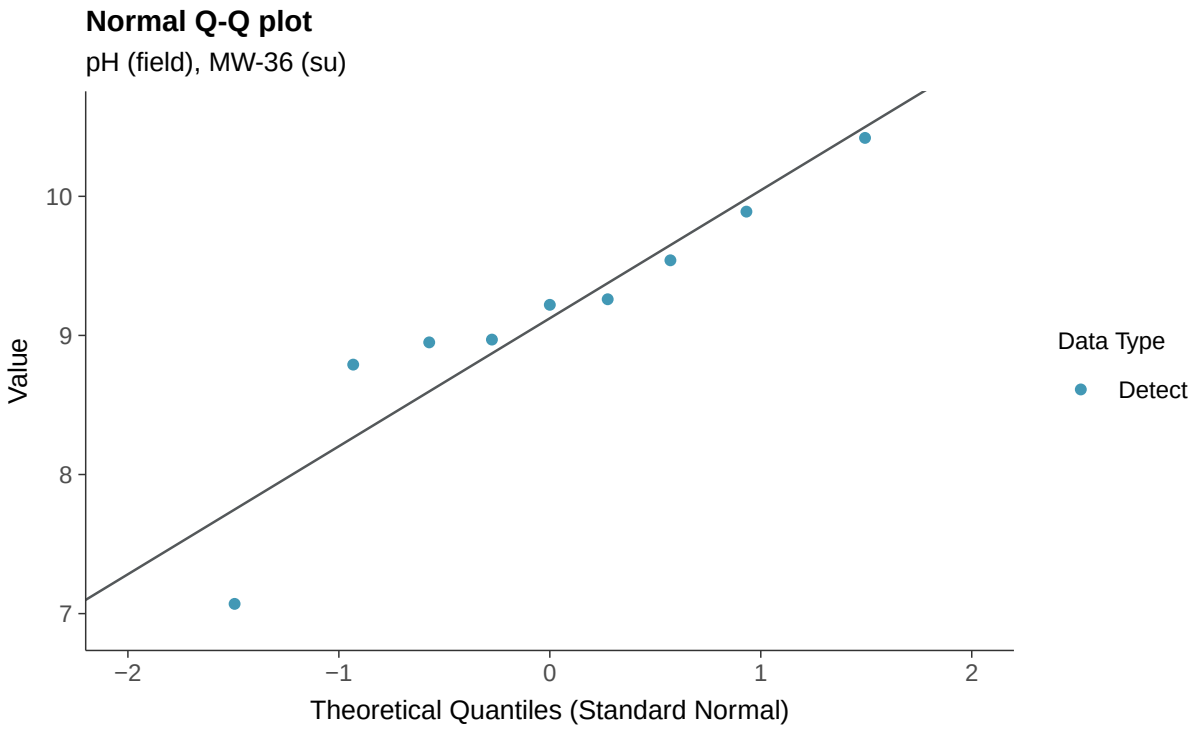
pH (field), MW-36 (su)

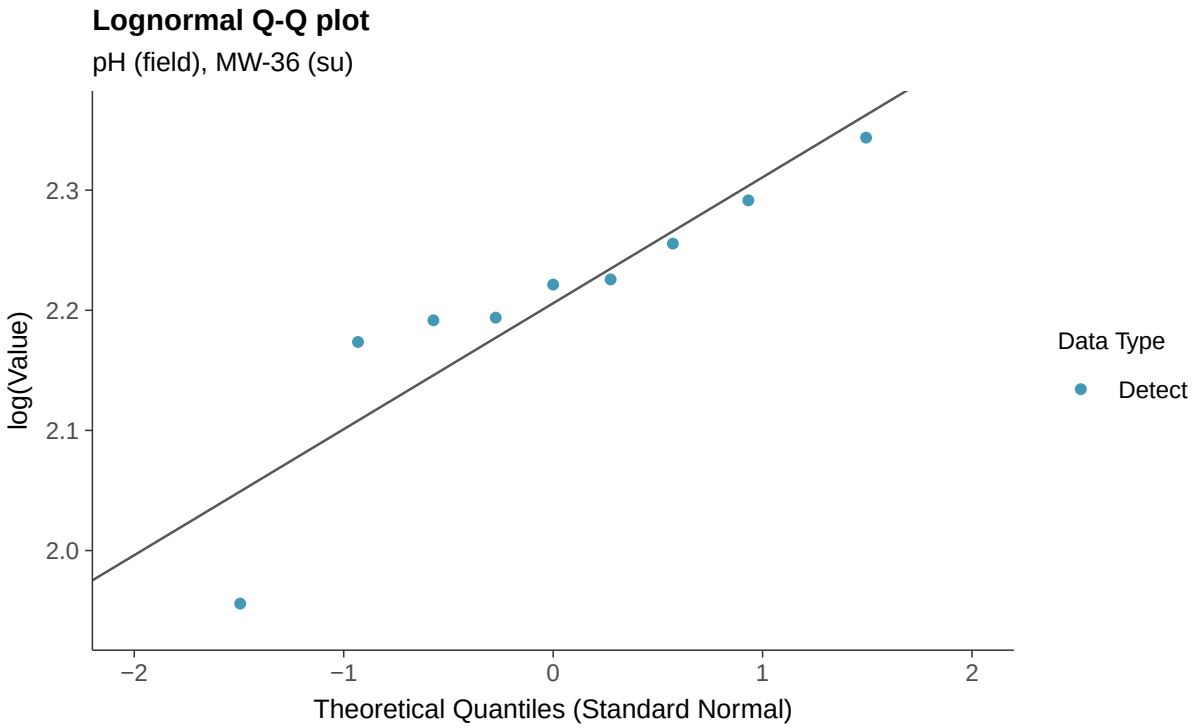


Boxplot by Season

pH (field), MW-36 (su)

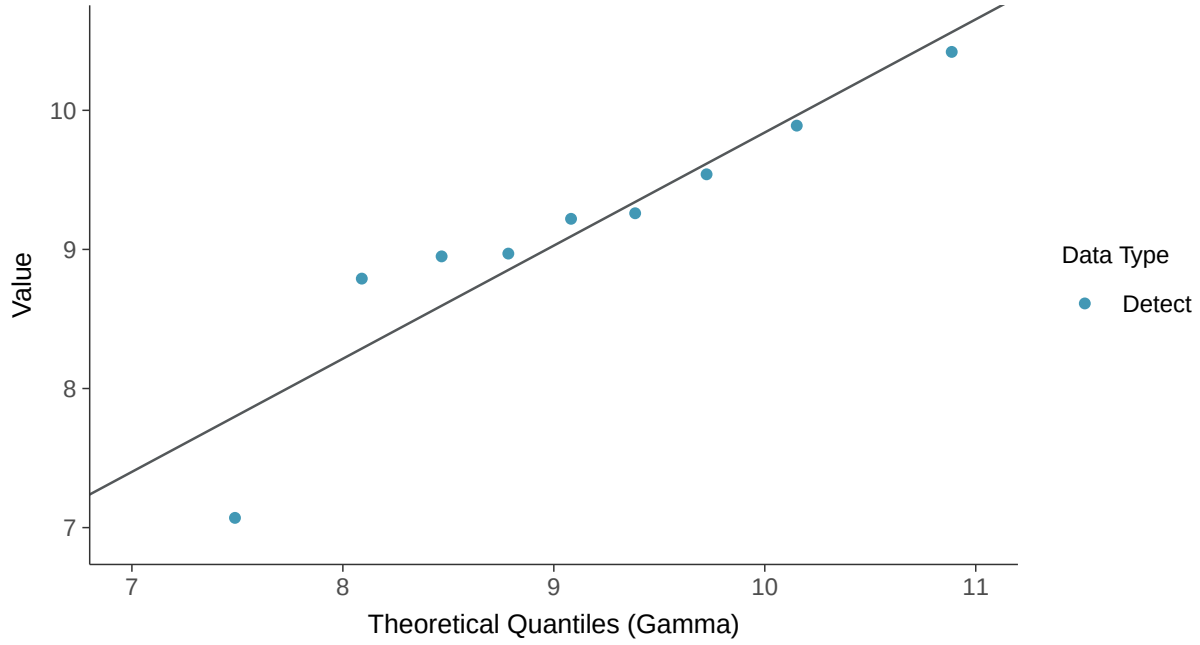



Normal Q-Q plot
pH (field), MW-36 (su)
Value
10
9
8
7
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect


Lognormal Q-Q plot
pH (field), MW-36 (su)
log(Value)
2.3
2.2
2.1
2.0
−2
−1
0
1
2
Theoretical Quantiles (Standard Normal)
Data Type
Detect

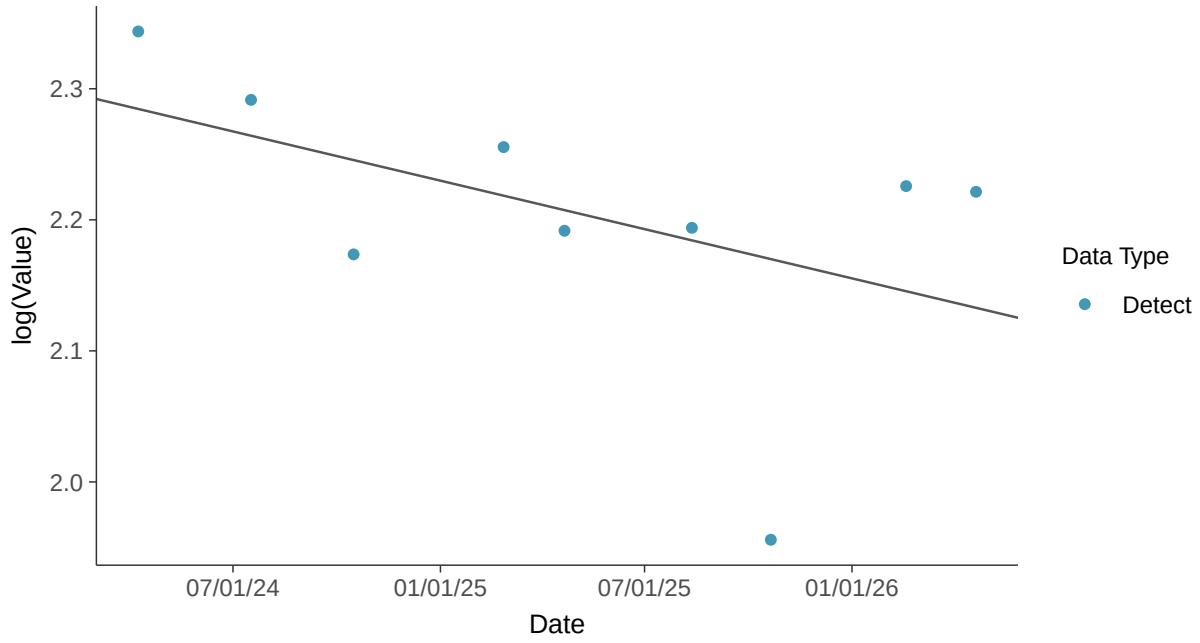
Gamma Q-Q plot

pH (field), MW-36 (su)



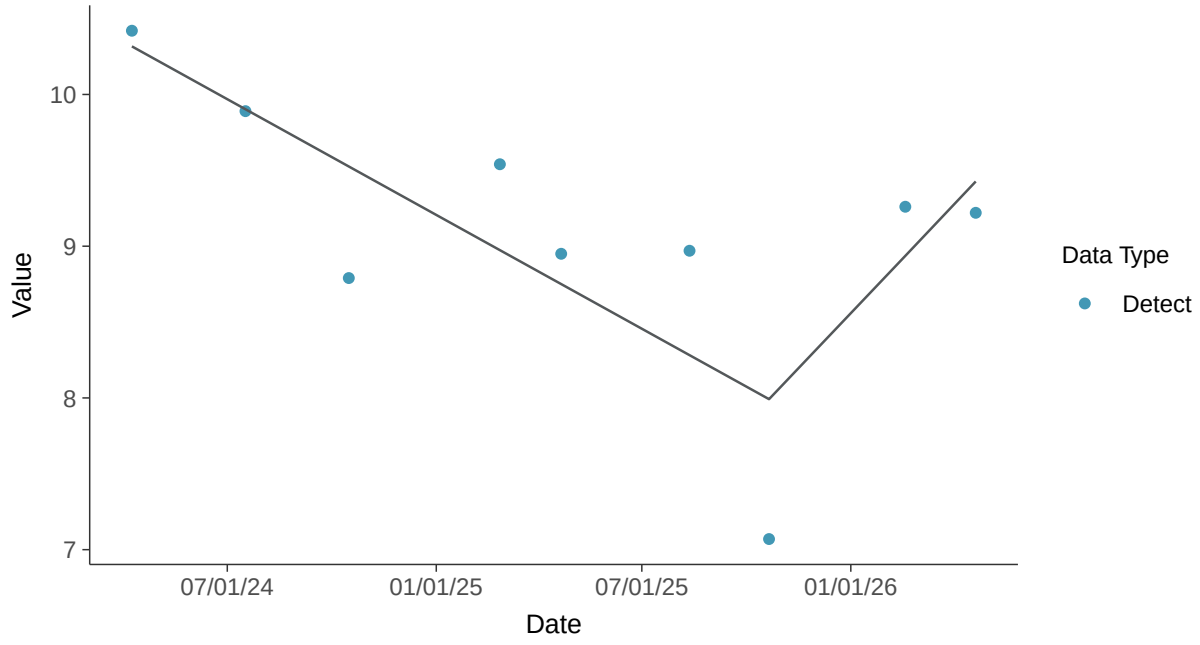
Trend Regression: Lognormal MLE

pH (field), MW-36 (su)



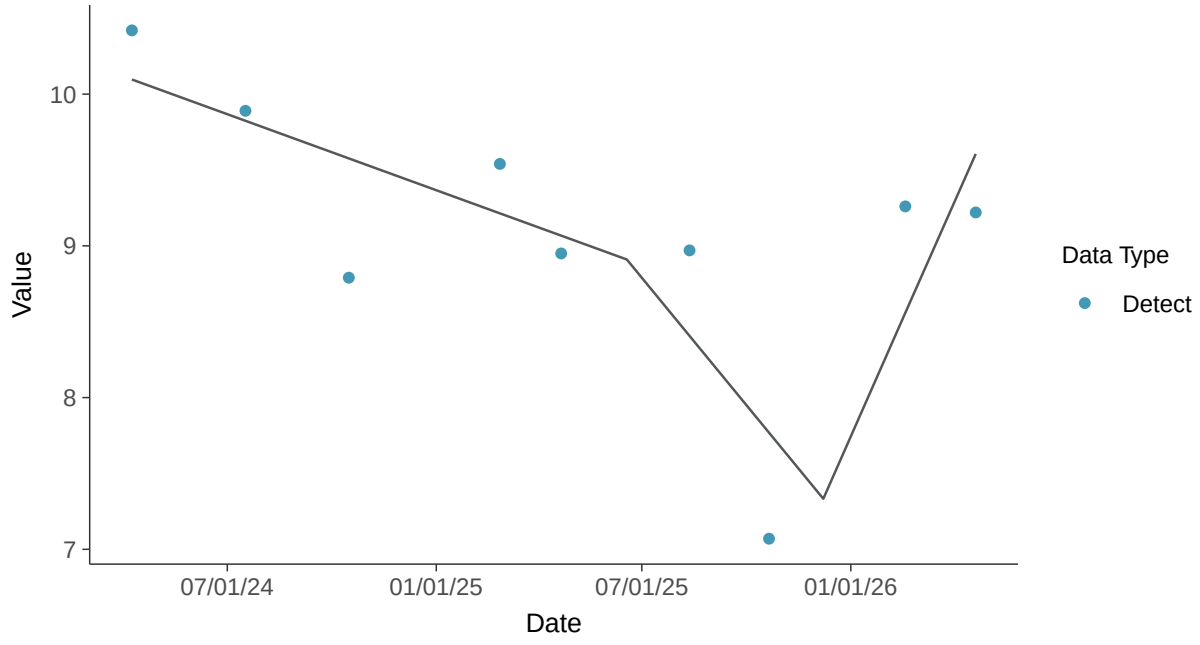
Trend Regression: Piecewise Linear-Linear

pH (field), MW-36 (su)



Trend Regression: Piecewise Linear-Linear-Linear

pH (field), MW-36 (su)

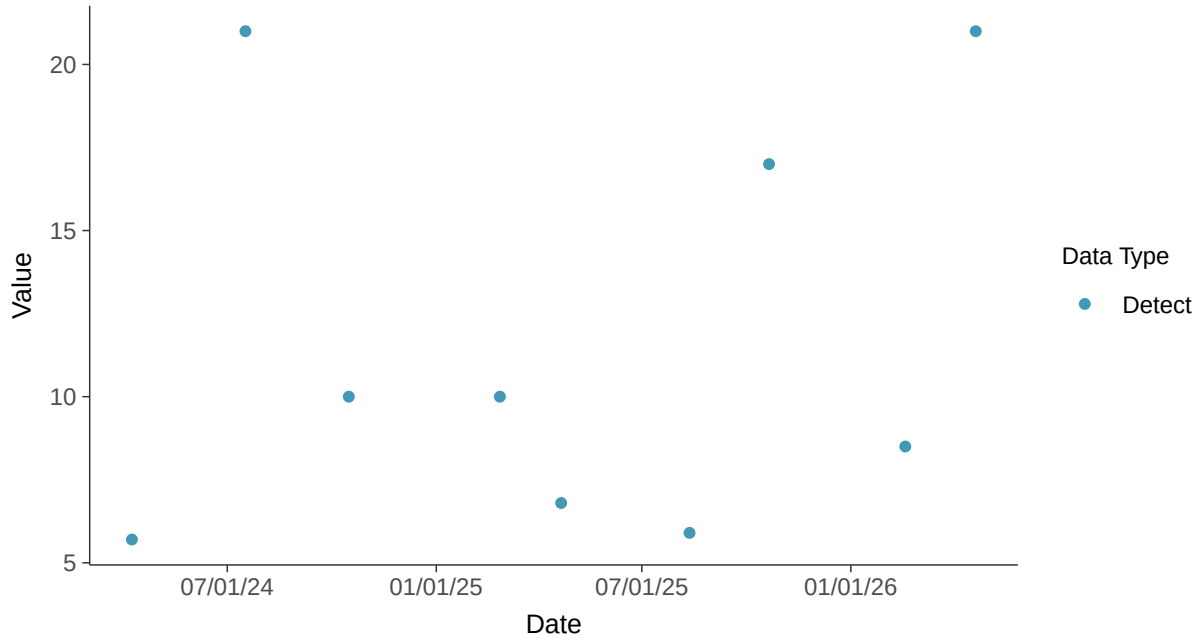


Appendix III: Sulfate (as SO4), MW-36

ID: 46_1_3_124

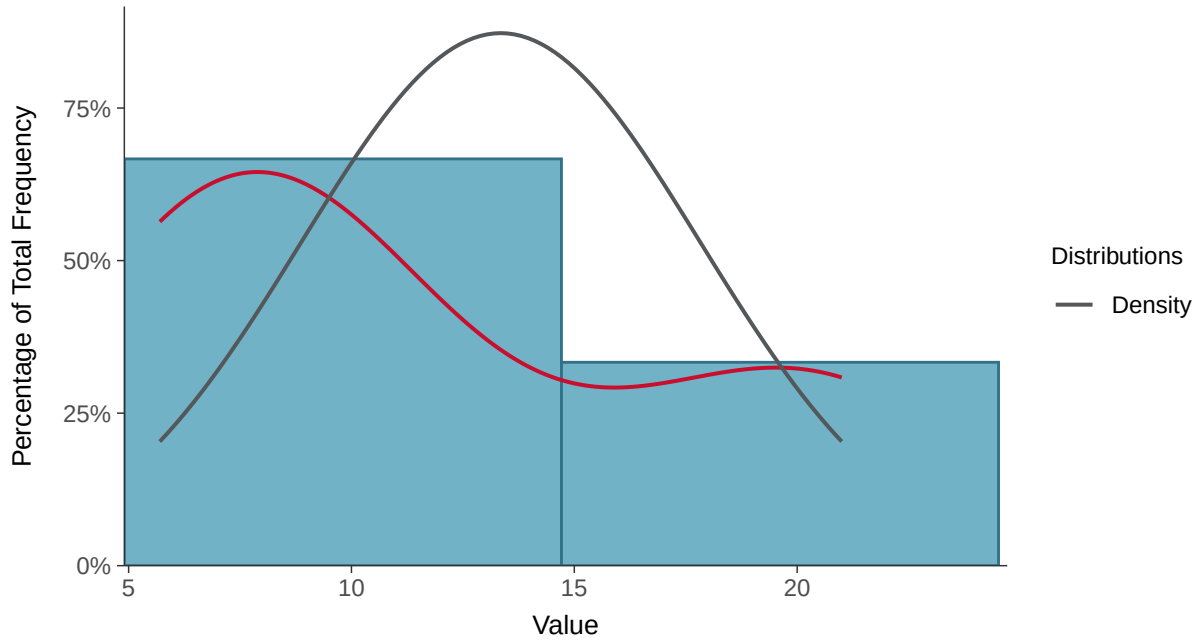
Scatter Plot

Sulfate (as SO4), MW-36 (mg/L)



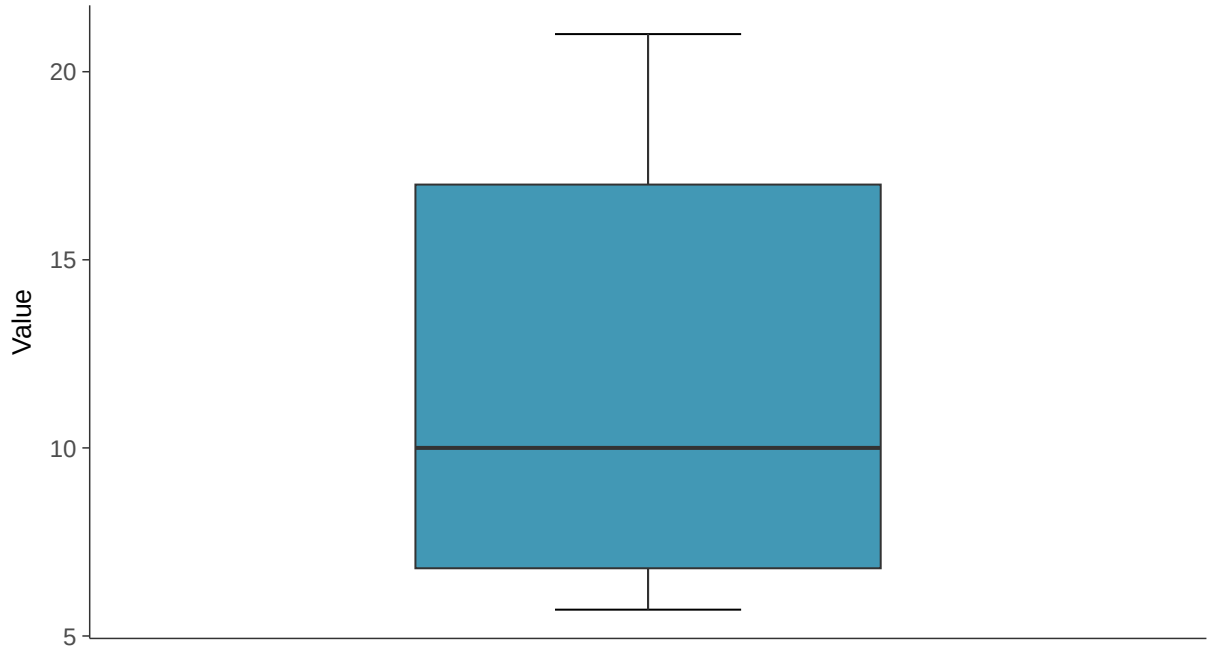
Histogram

Sulfate (as SO4), MW-36 (mg/L)



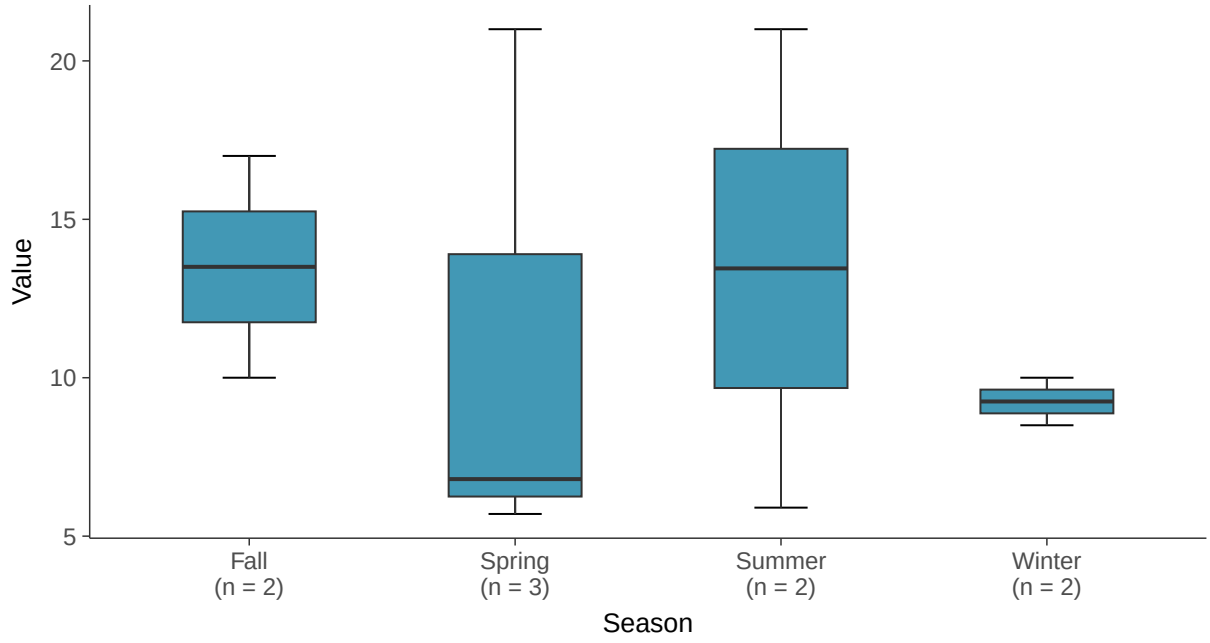
Boxplot

Sulfate (as SO4), MW-36 (mg/L)



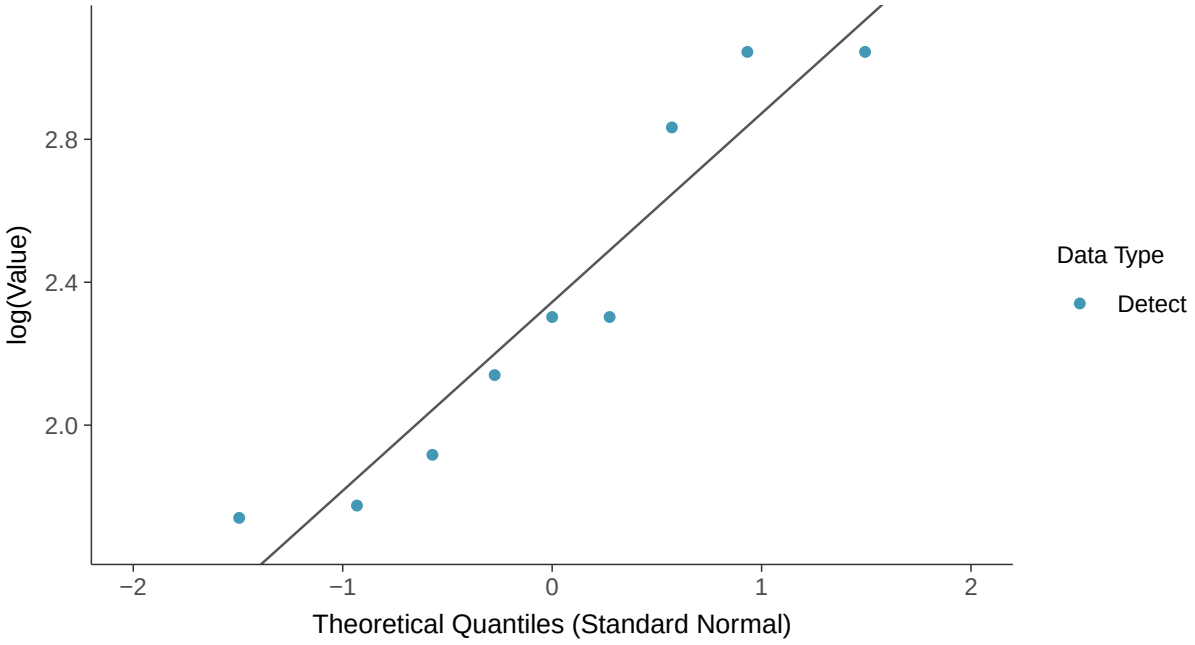
Boxplot by Season

Sulfate (as SO4), MW-36 (mg/L)



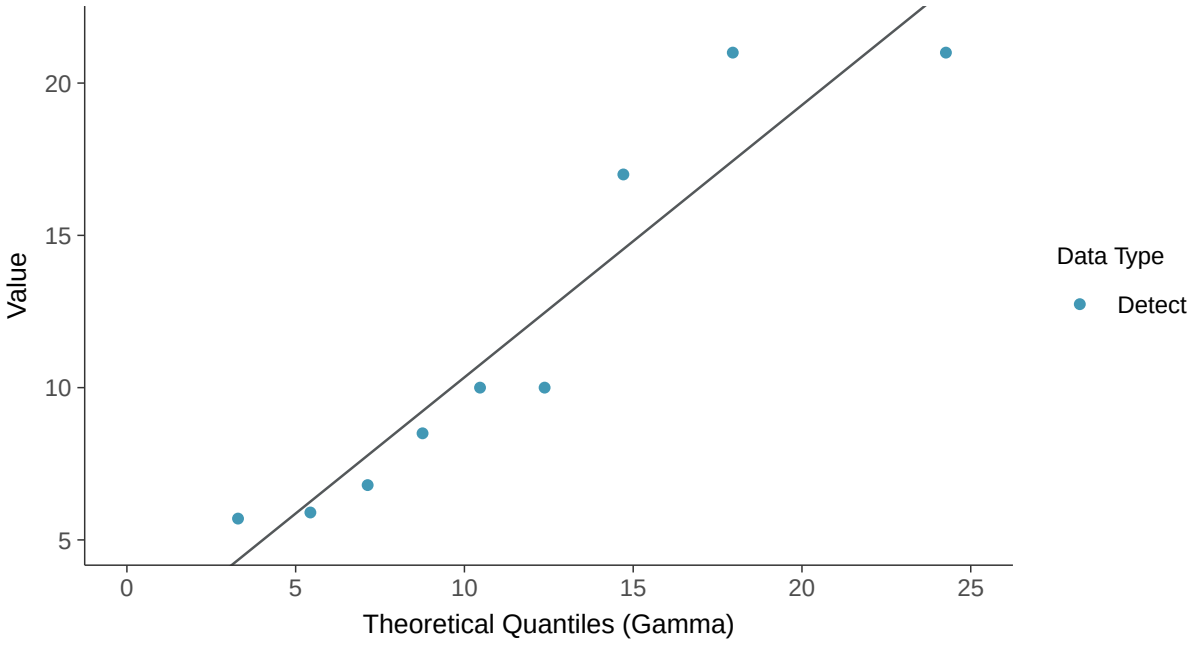
Lognormal Q-Q plot

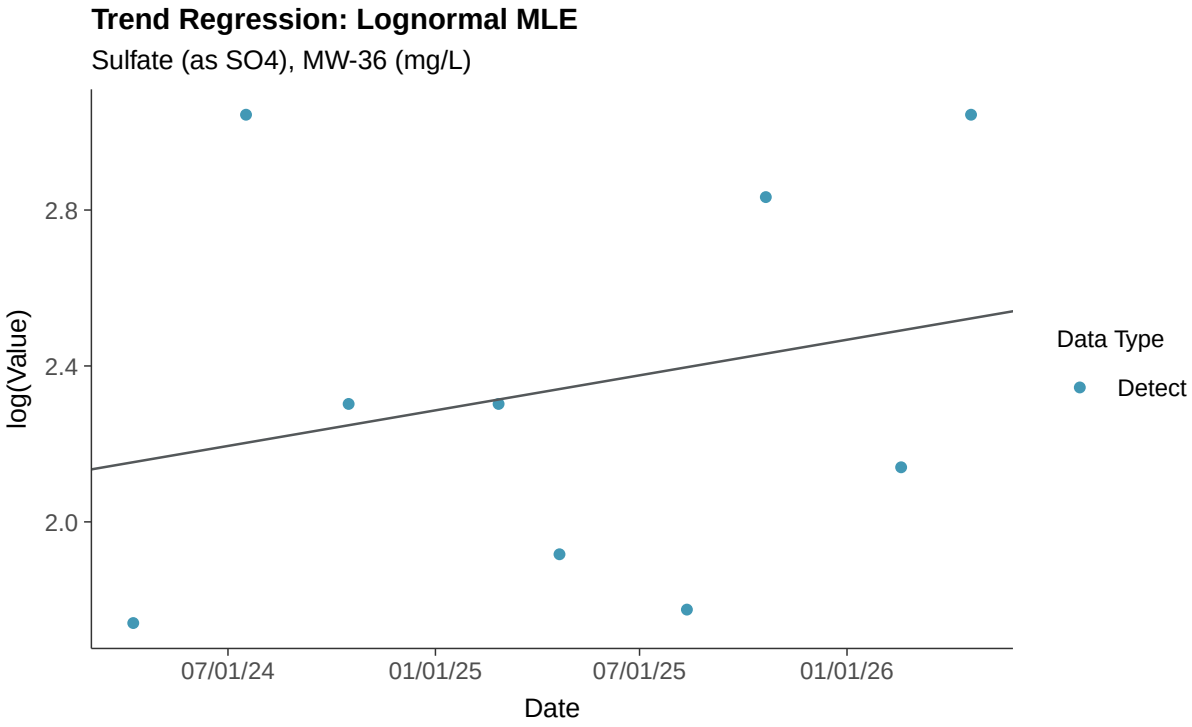
Sulfate (as SO4), MW-36 (mg/L)



Gamma Q-Q plot

Sulfate (as SO4), MW-36 (mg/L)



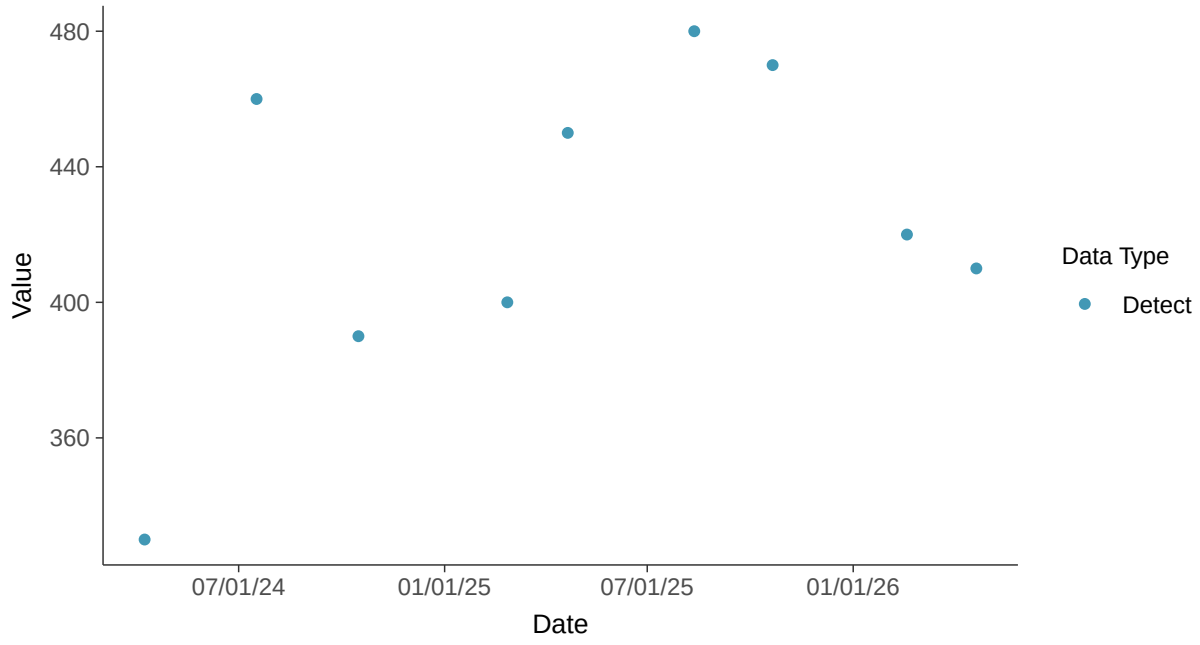

Trend Regression: Lognormal MLE
Sulfate (as SO4), MW-36 (mg/L)
log(Value)
2.8
2.4
2.0
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix III: Total Dissolved Solids, MW-36

ID: 46_1_3_126

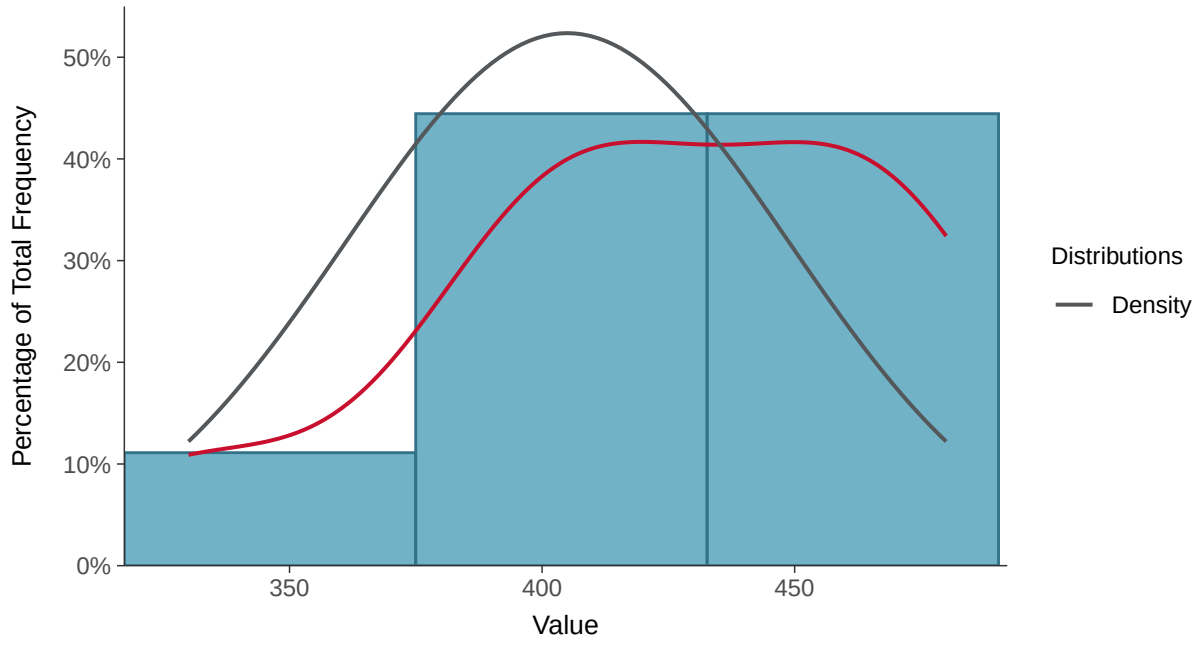
Scatter Plot

Total Dissolved Solids, MW-36 (mg/L)



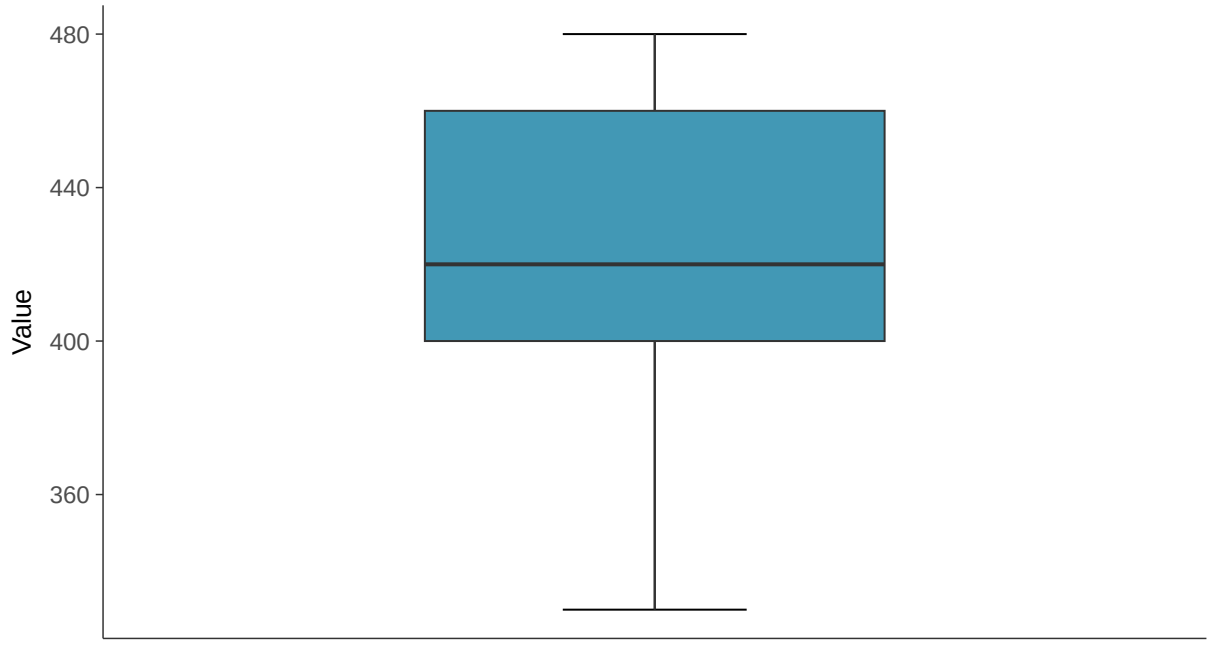
Histogram

Total Dissolved Solids, MW-36 (mg/L)



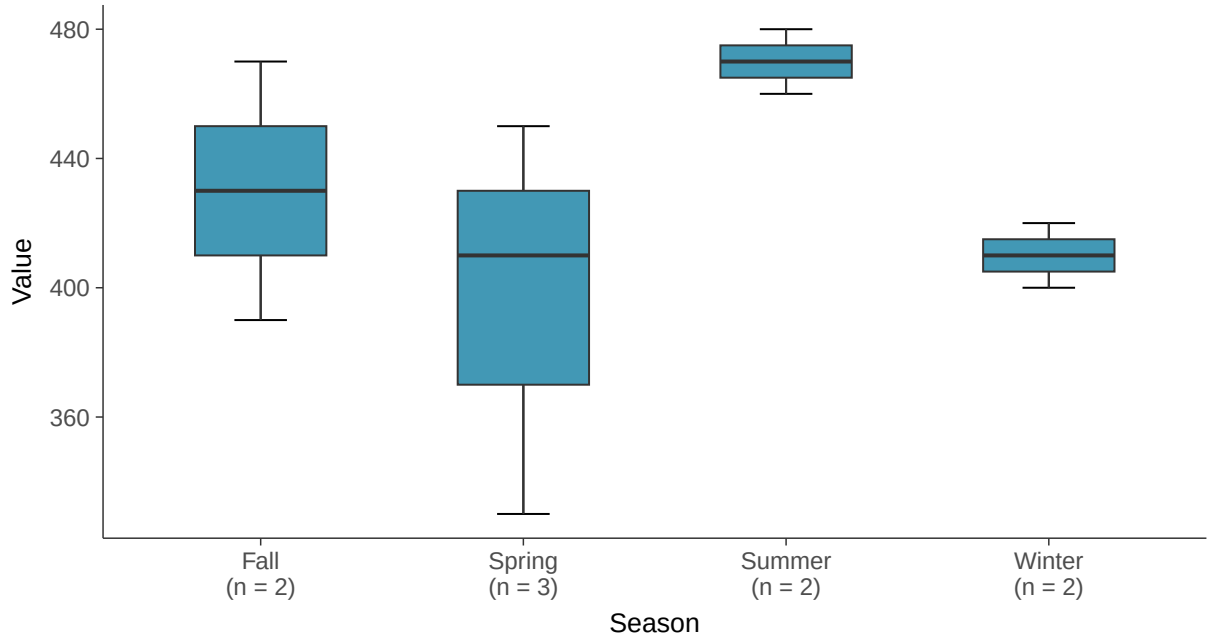
Boxplot

Total Dissolved Solids, MW-36 (mg/L)



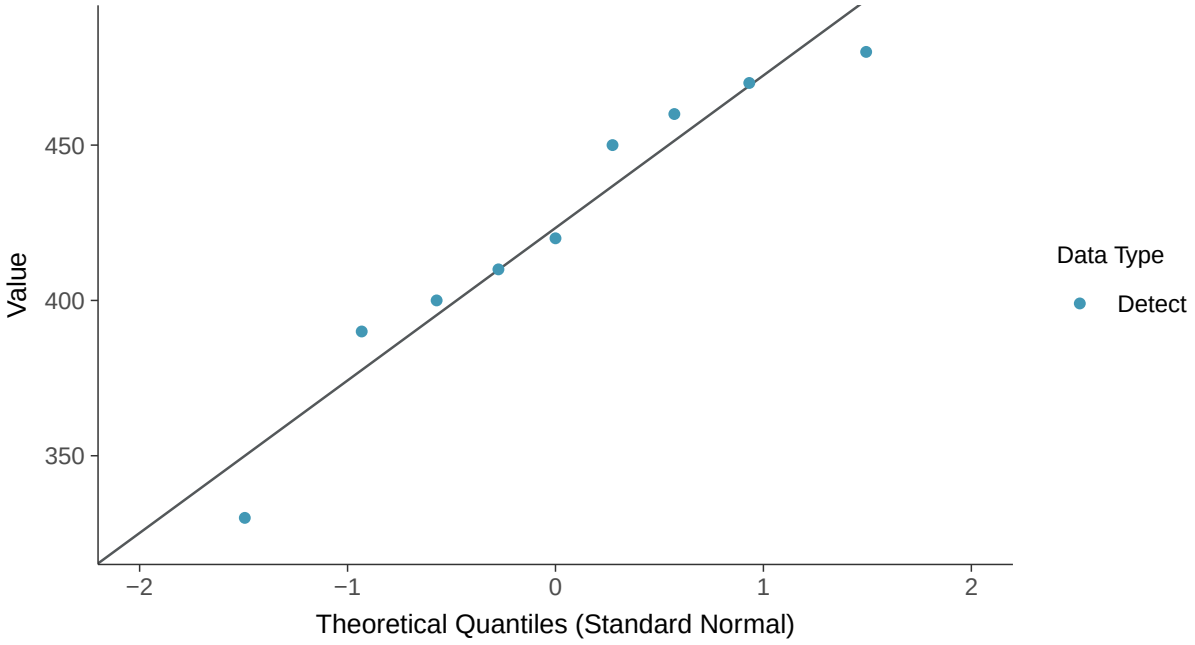
Boxplot by Season

Total Dissolved Solids, MW-36 (mg/L)



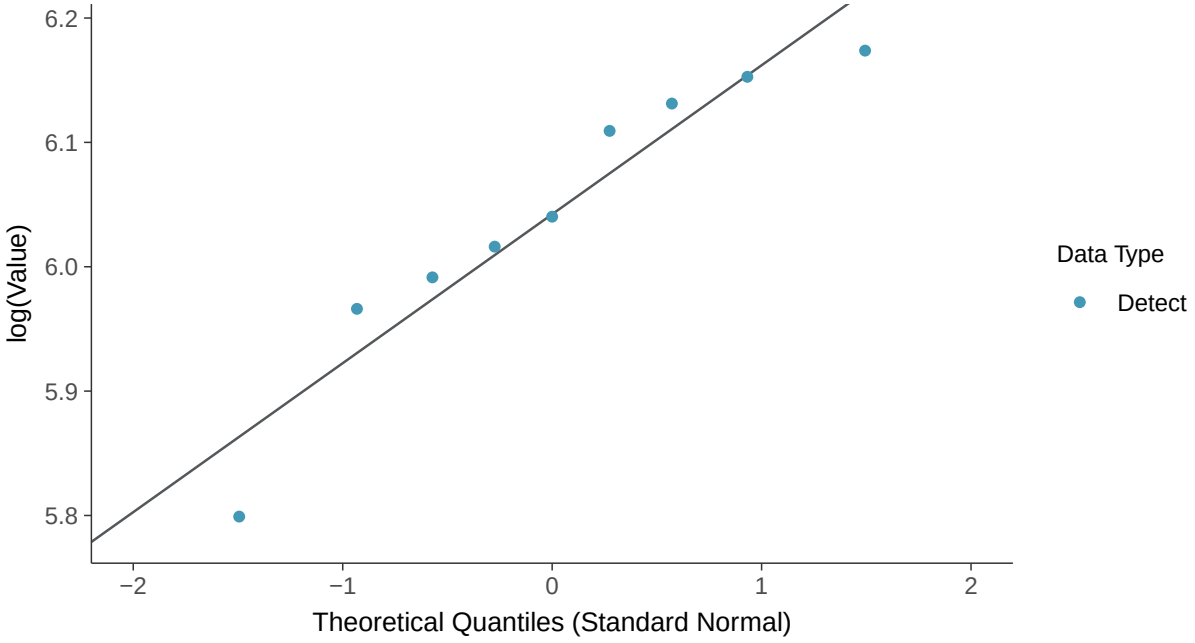
Normal Q-Q plot

Total Dissolved Solids, MW-36 (mg/L)



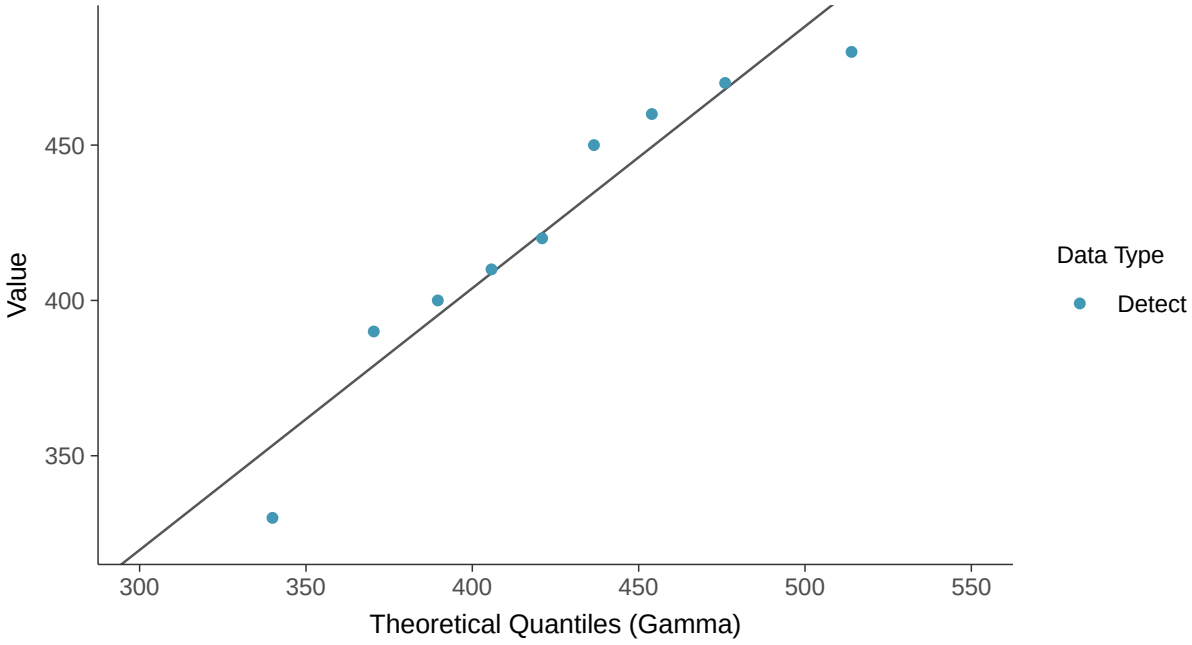
Lognormal Q-Q plot

Total Dissolved Solids, MW-36 (mg/L)



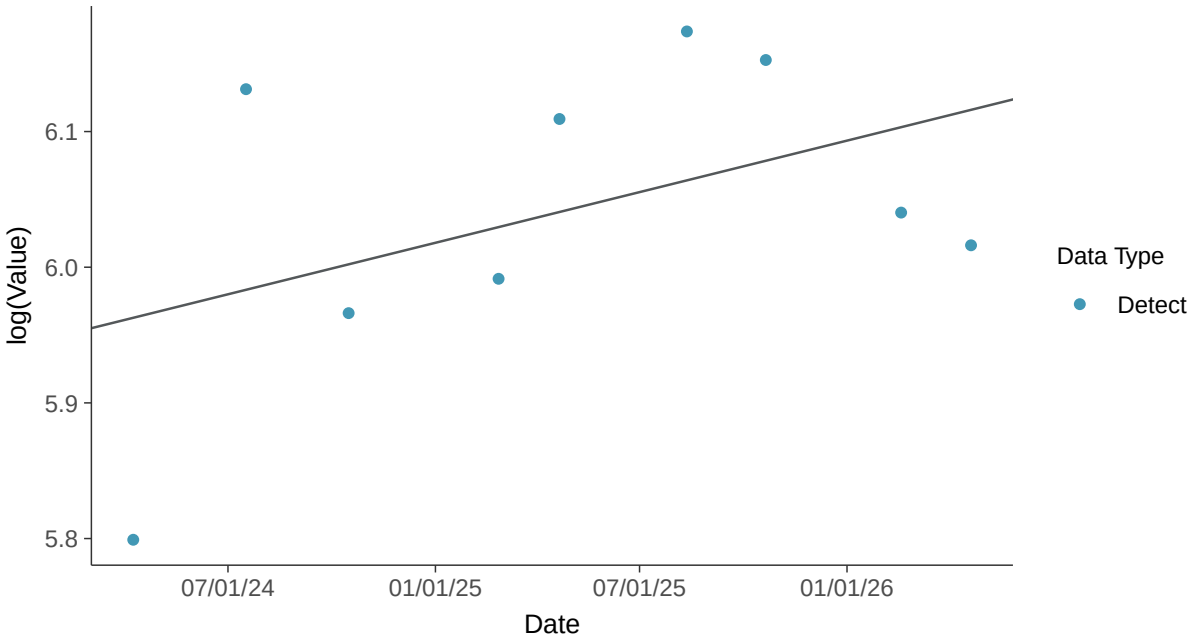
Gamma Q-Q plot

Total Dissolved Solids, MW-36 (mg/L)



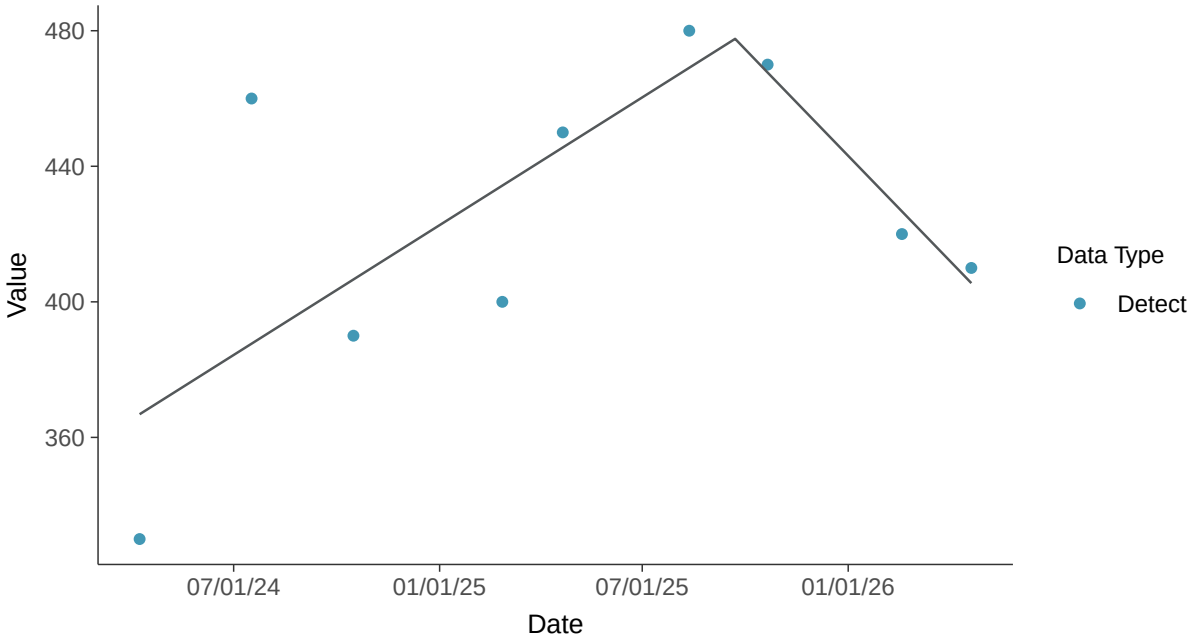
Trend Regression: Lognormal MLE

Total Dissolved Solids, MW-36 (mg/L)



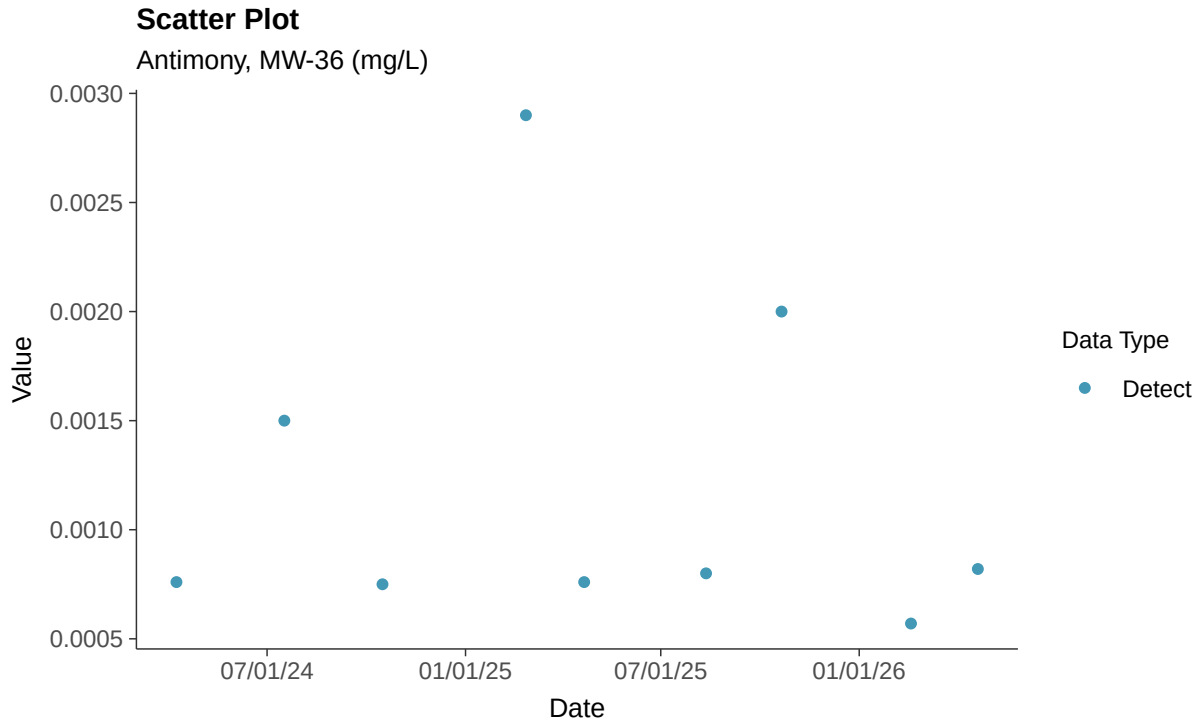
Trend Regression: Piecewise Linear-Linear

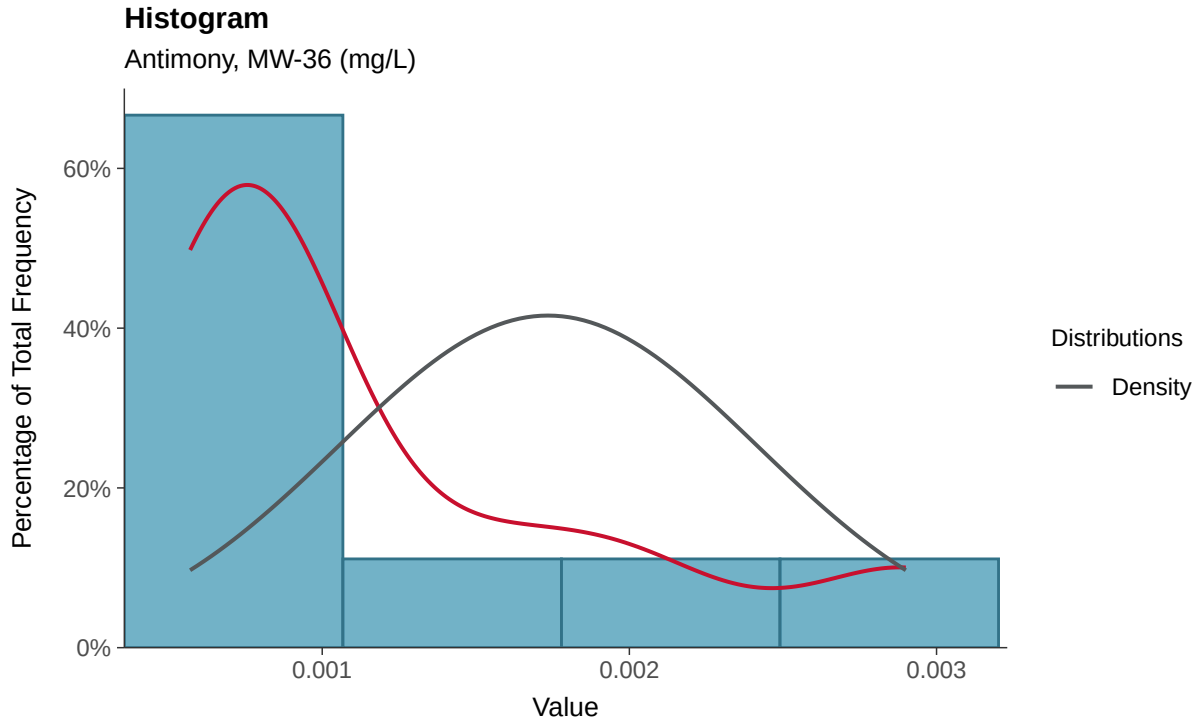
Total Dissolved Solids, MW-36 (mg/L)



Appendix IV: Antimony, MW-36

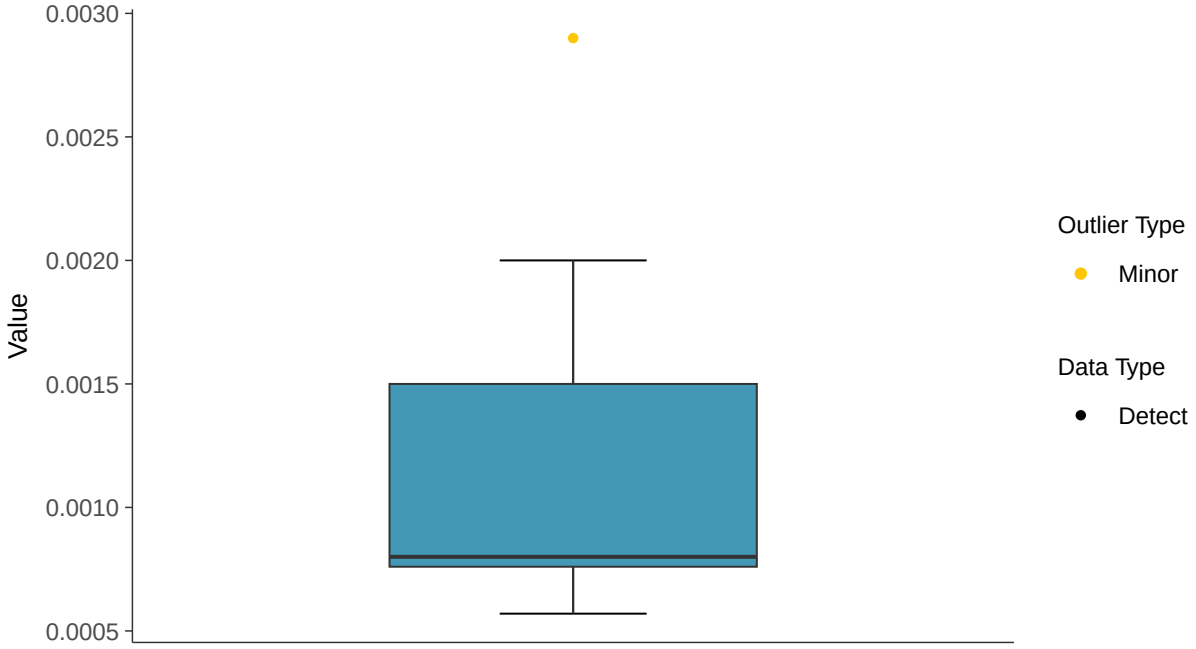
ID: 46_1_4_101





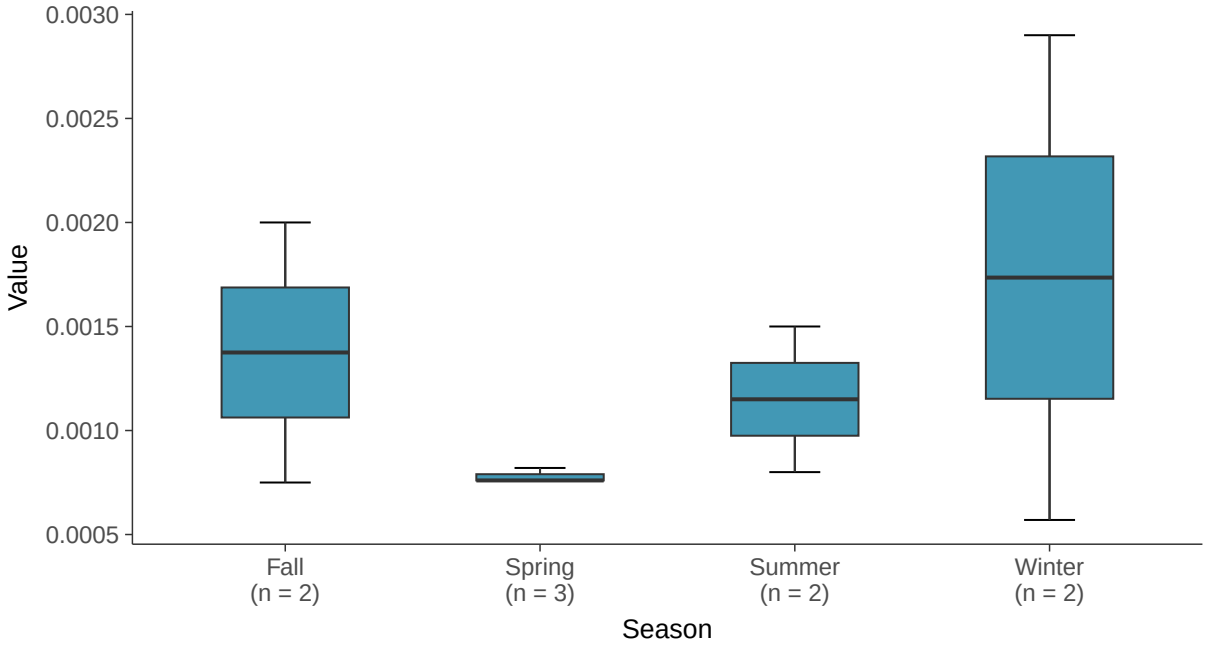
Boxplot

Antimony, MW-36 (mg/L)



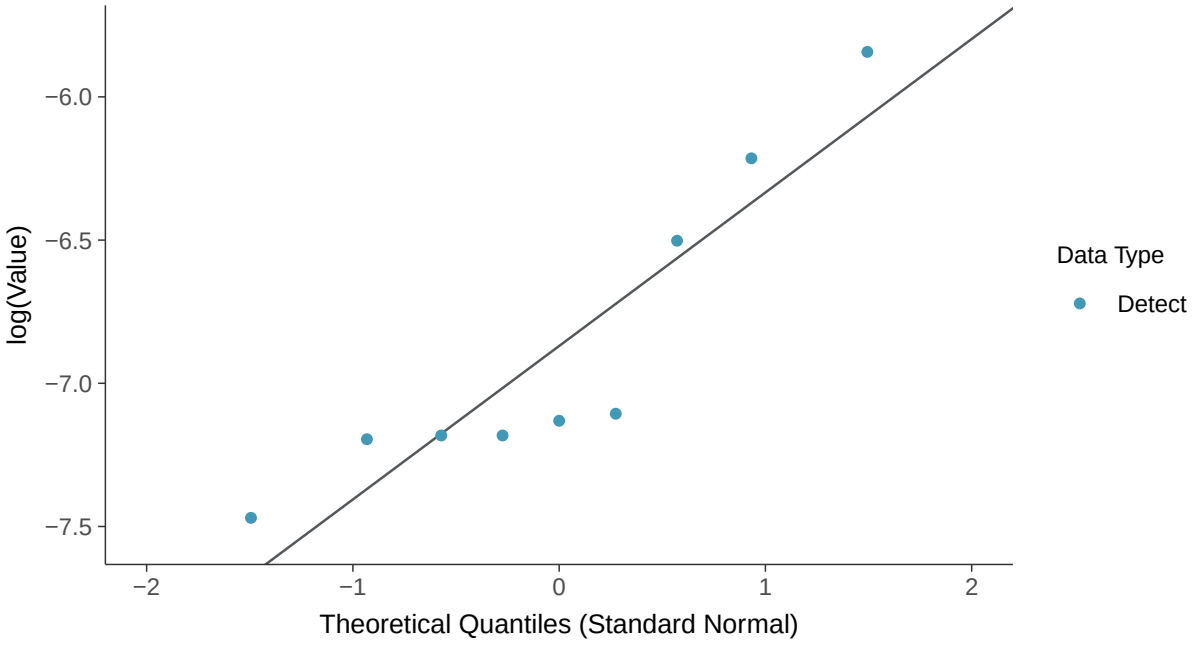
Boxplot by Season

Antimony, MW-36 (mg/L)



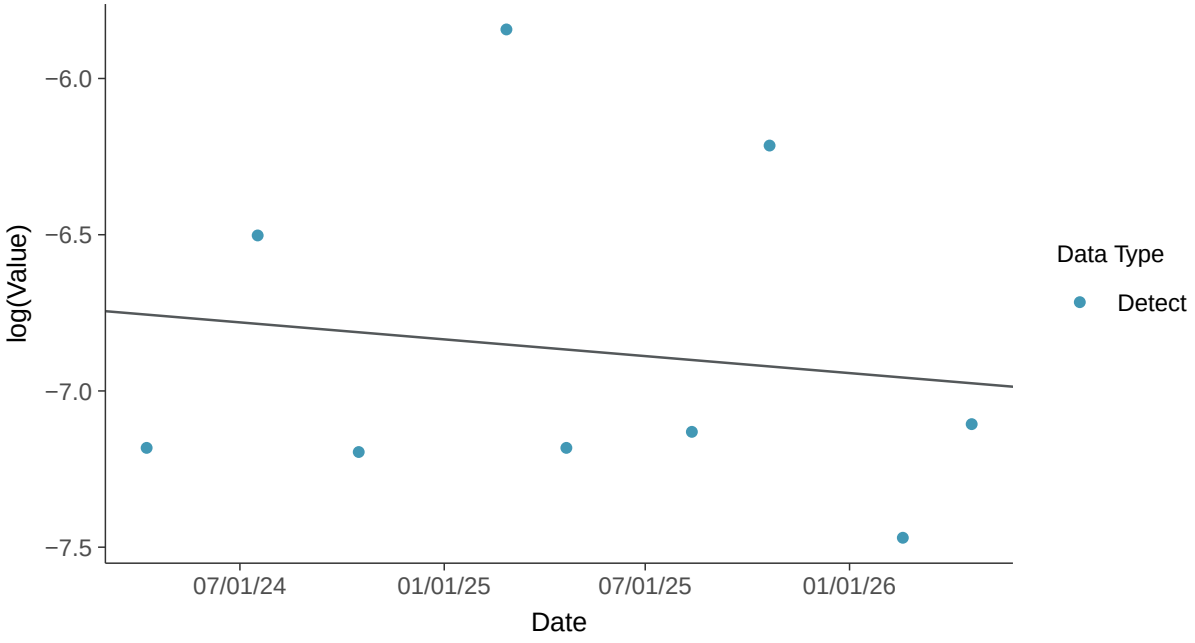
Lognormal Q-Q plot

Antimony, MW-36 (mg/L)



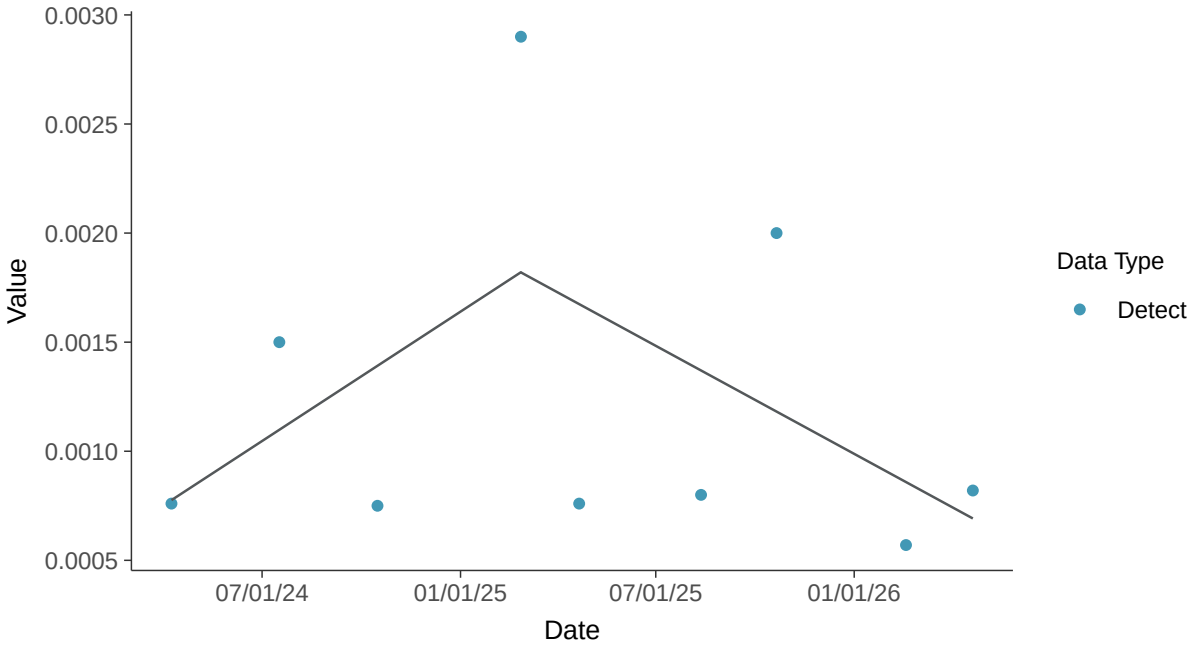
Trend Regression: Lognormal MLE

Antimony, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-36 (mg/L)

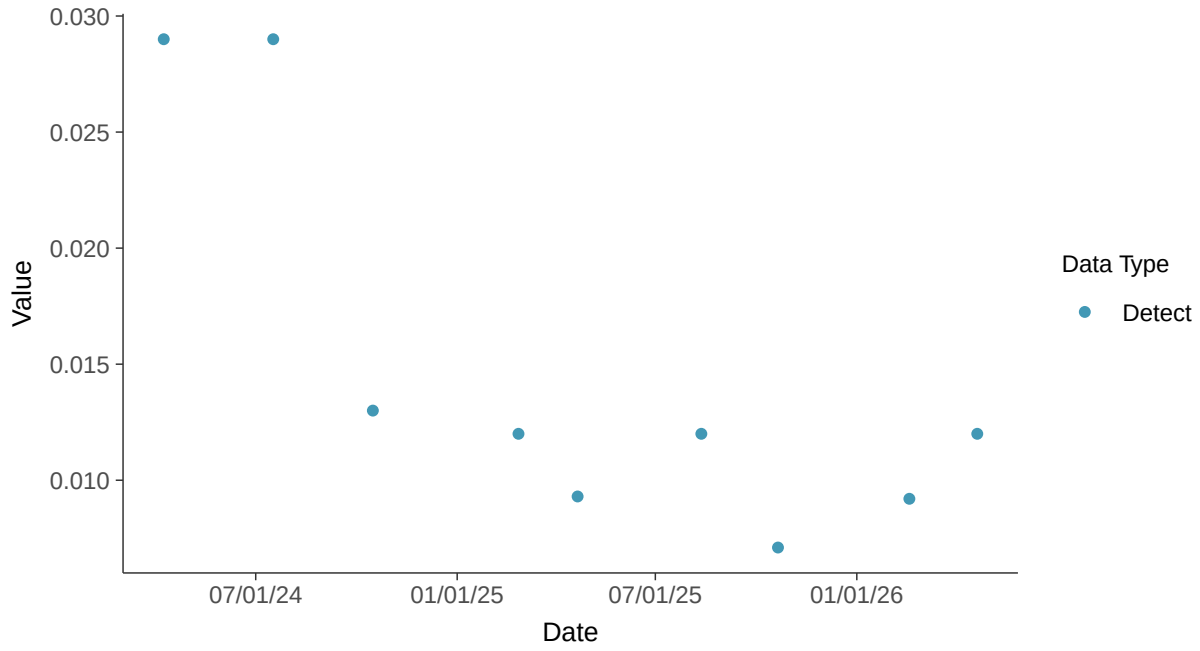


Appendix IV: Arsenic, MW-36

ID: 46_1_4_102

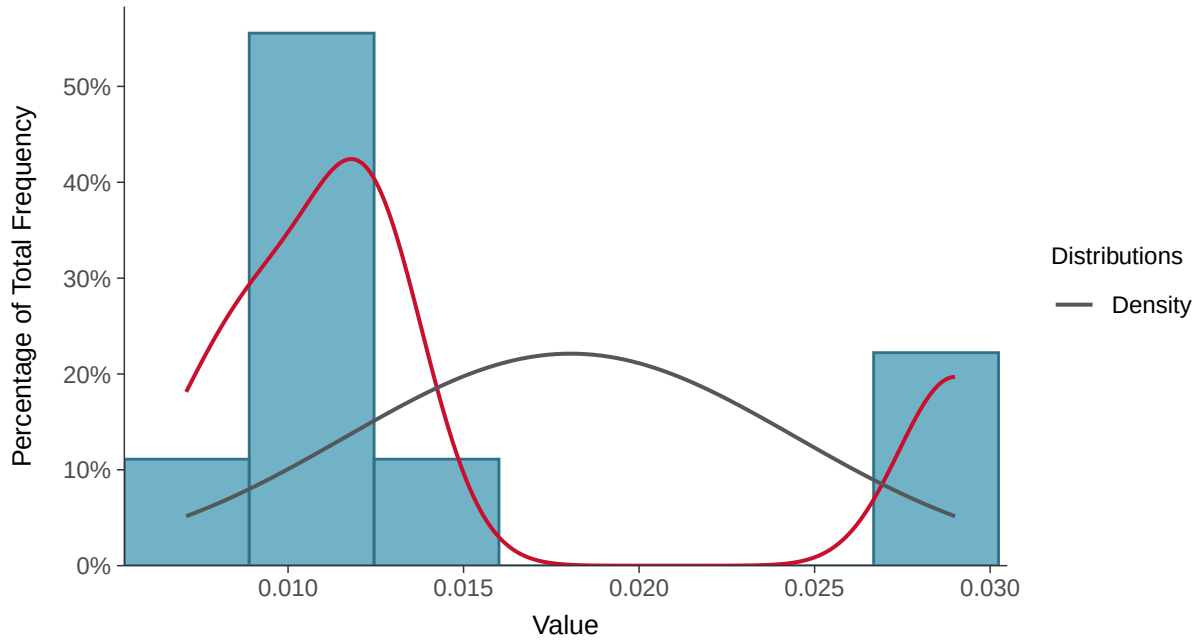
Scatter Plot

Arsenic, MW-36 (mg/L)



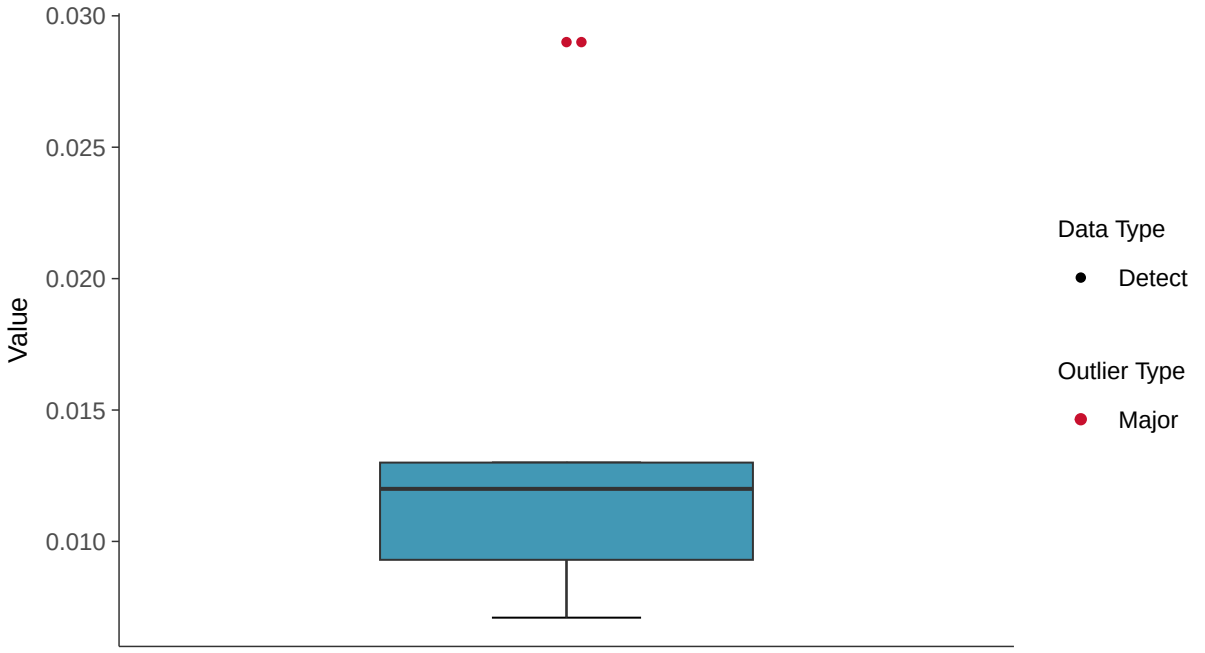
Histogram

Arsenic, MW-36 (mg/L)



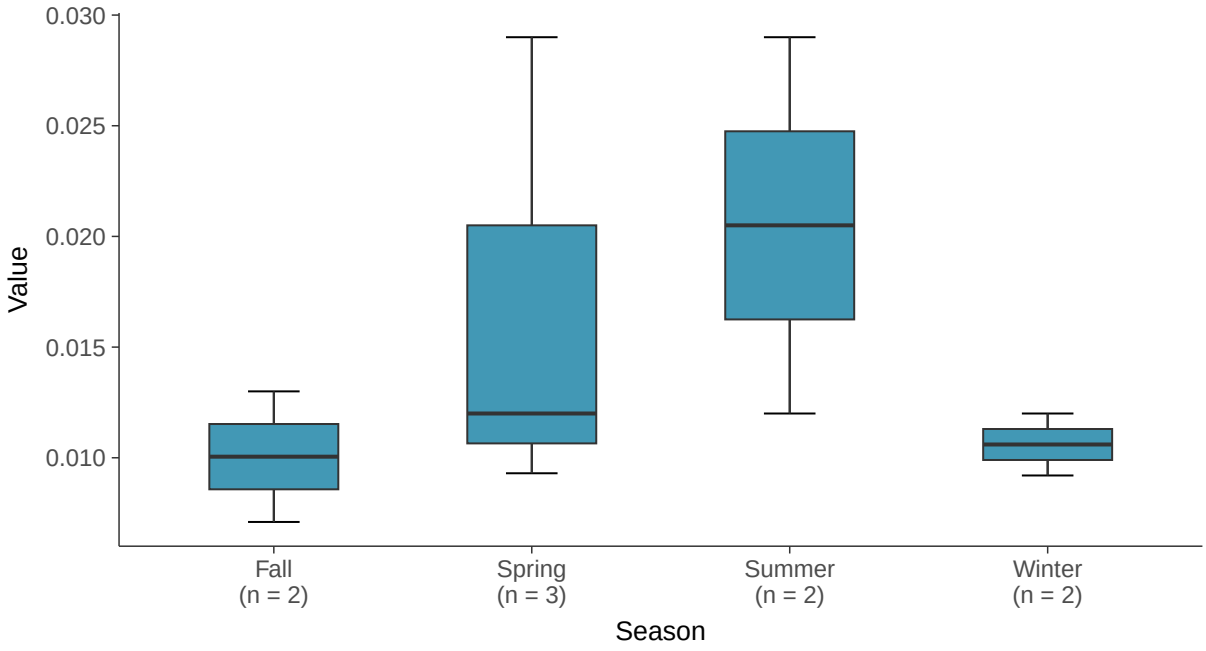
Boxplot

Arsenic, MW-36 (mg/L)



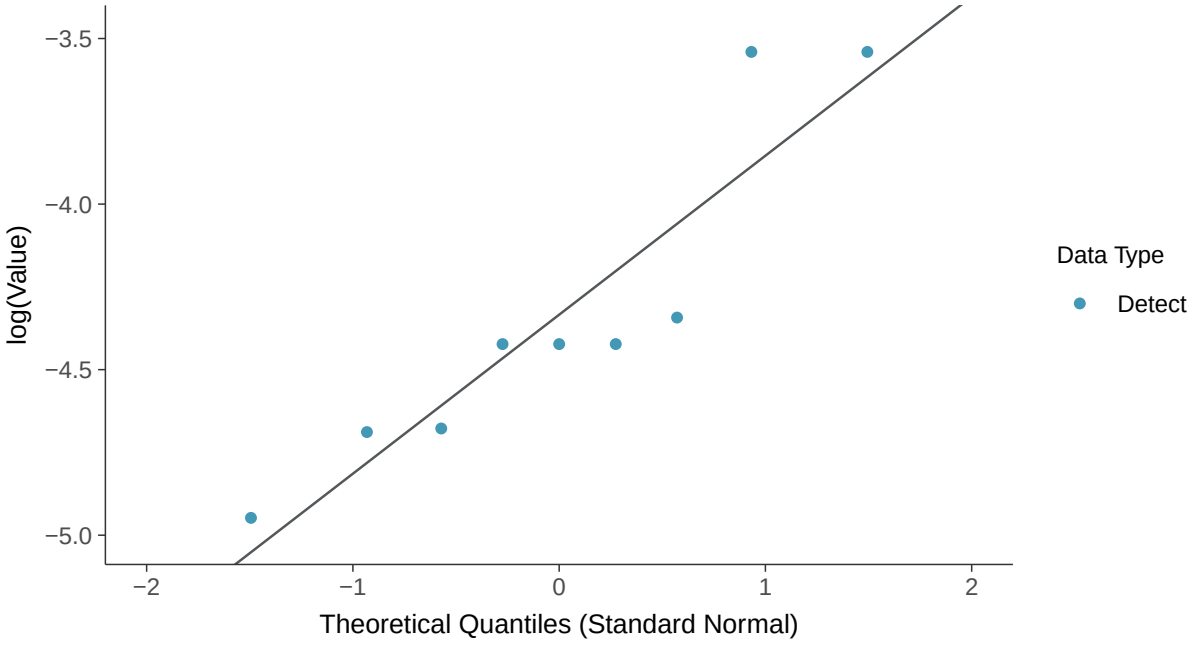
Boxplot by Season

Arsenic, MW-36 (mg/L)



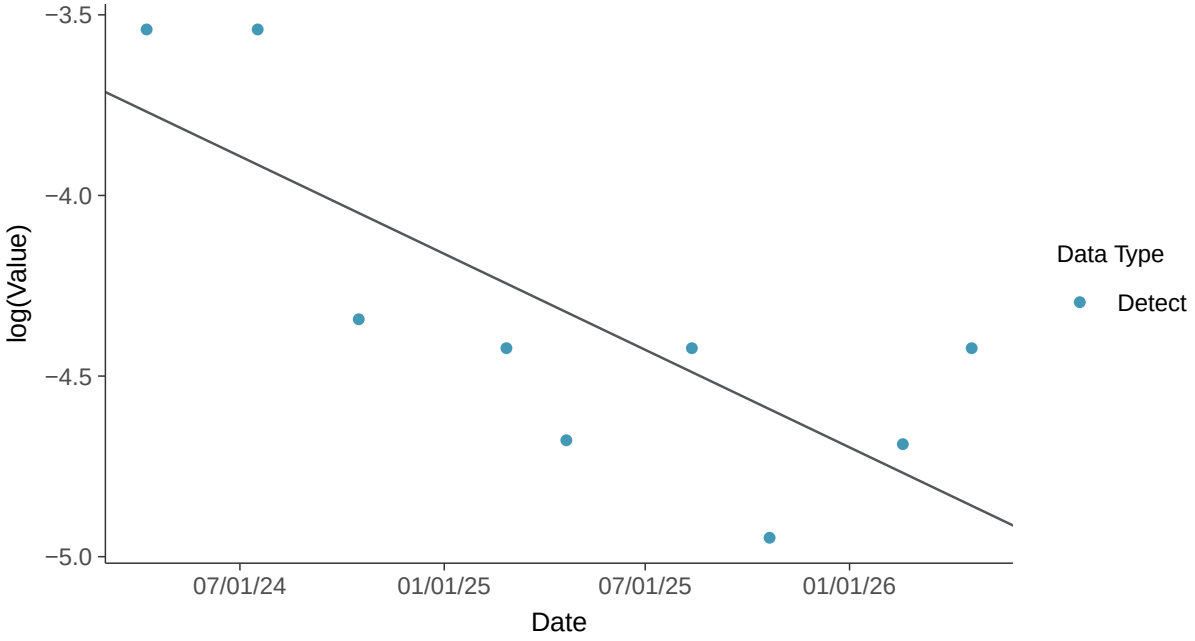
Lognormal Q-Q plot

Arsenic, MW-36 (mg/L)



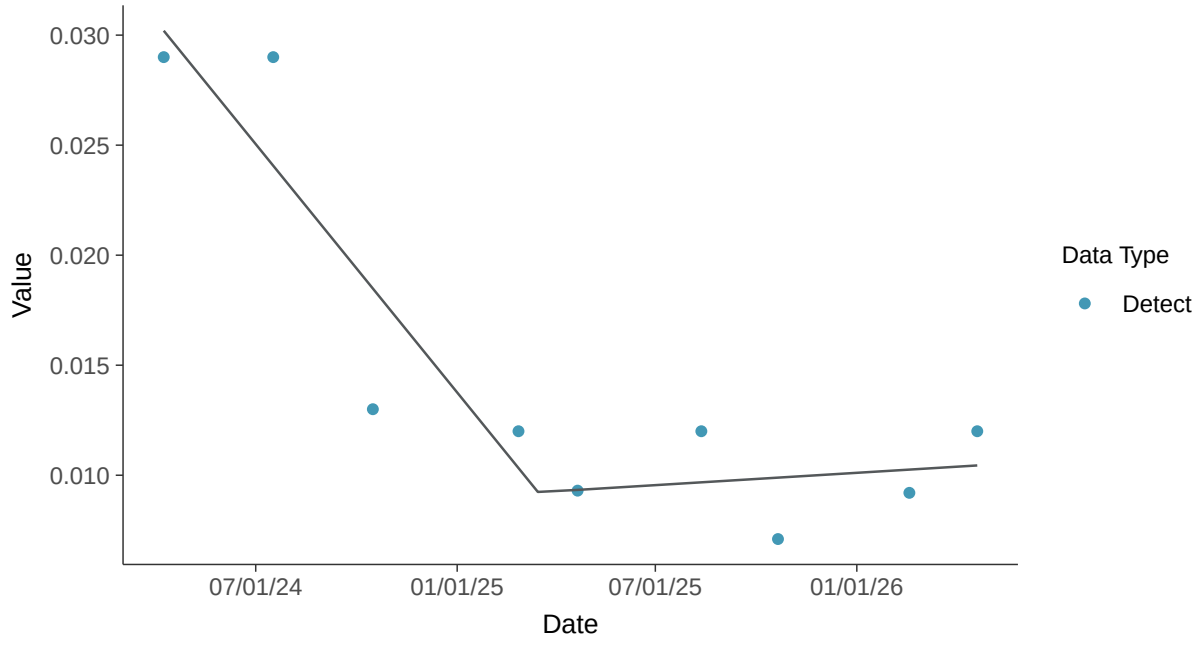
Trend Regression: Lognormal MLE

Arsenic, MW-36 (mg/L)



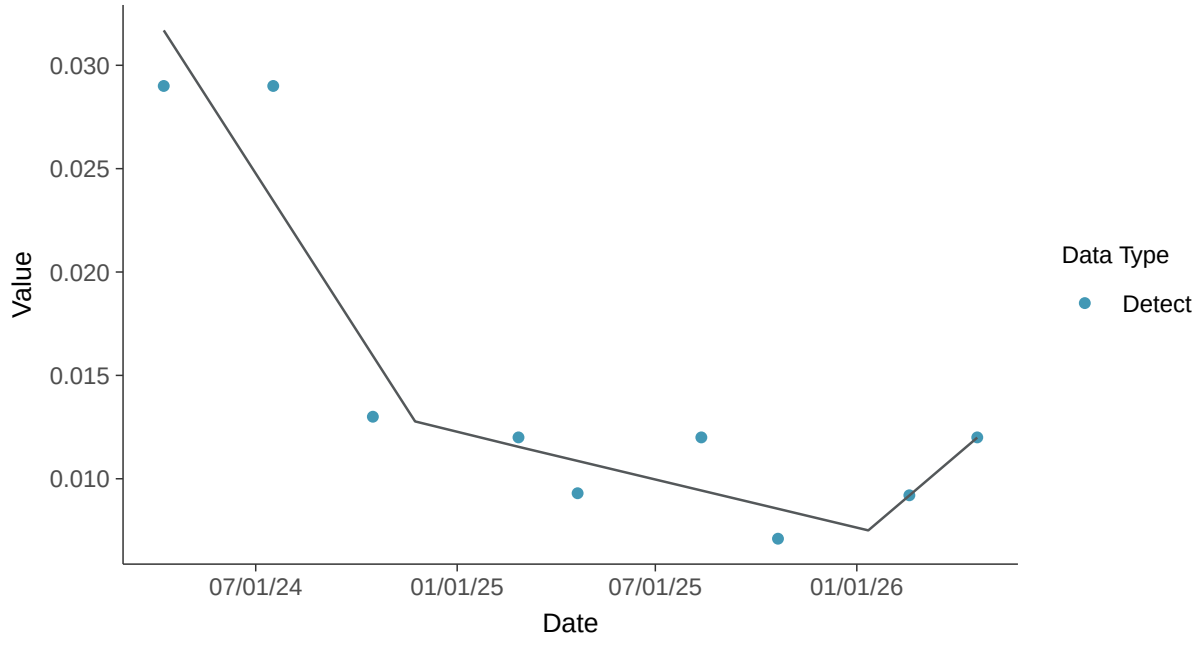
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Arsenic, MW-36 (mg/L)

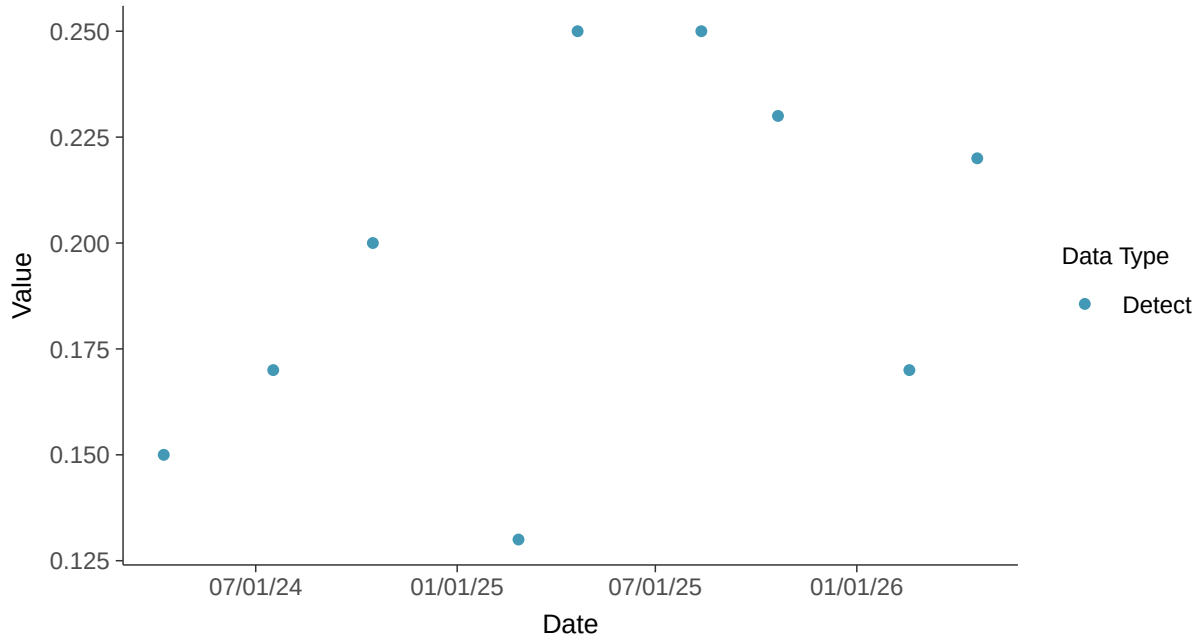


Appendix IV: Barium, MW-36

ID: 46_1_4_103

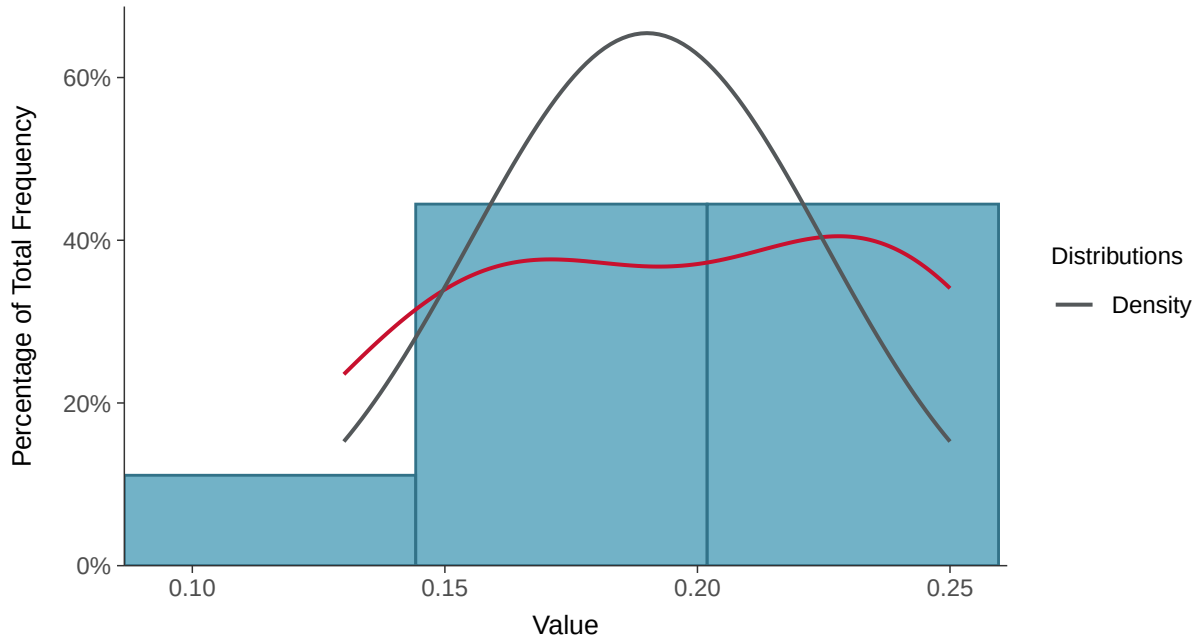
Scatter Plot

Barium, MW-36 (mg/L)



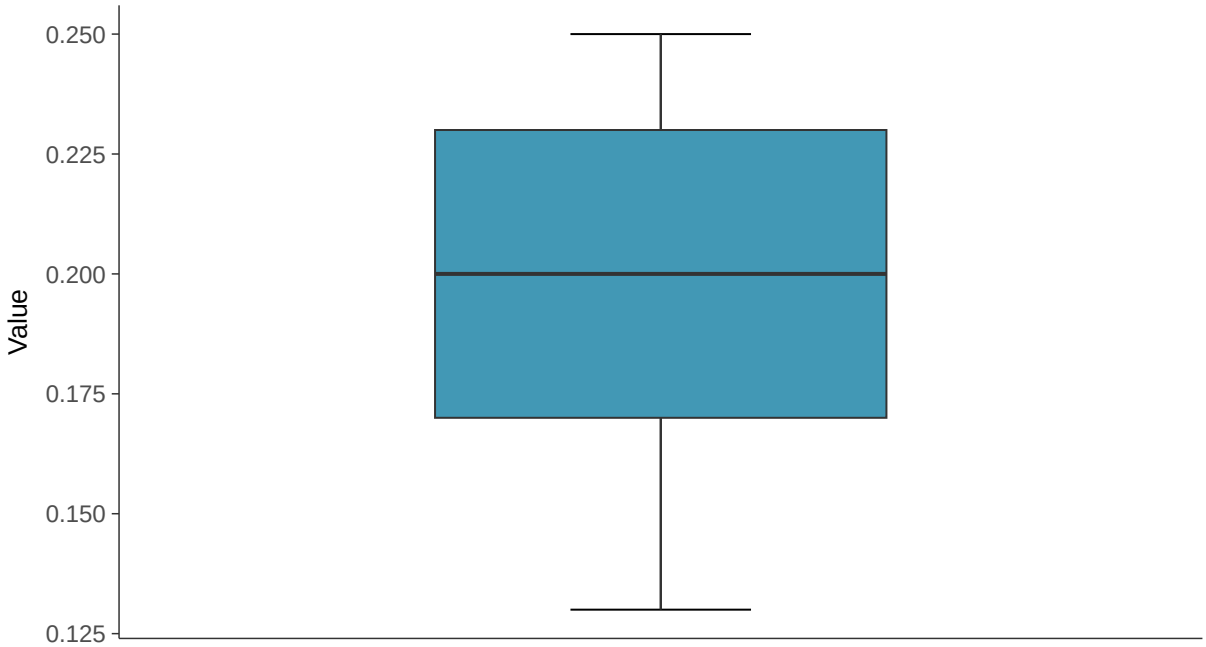
Histogram

Barium, MW-36 (mg/L)



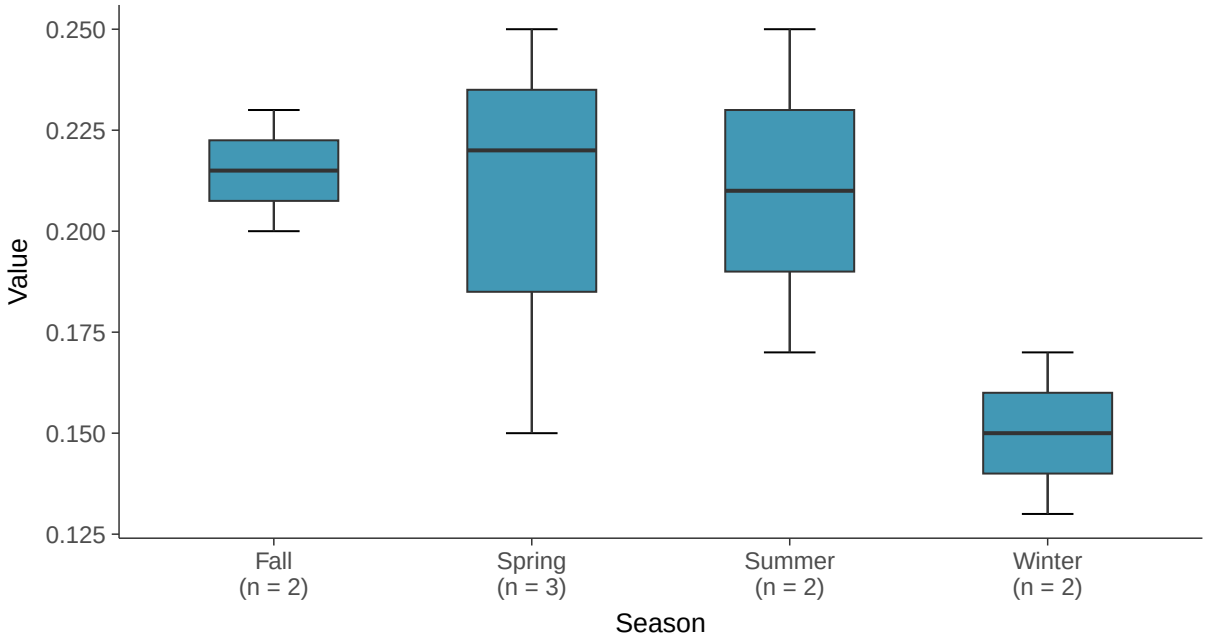
Boxplot

Barium, MW-36 (mg/L)



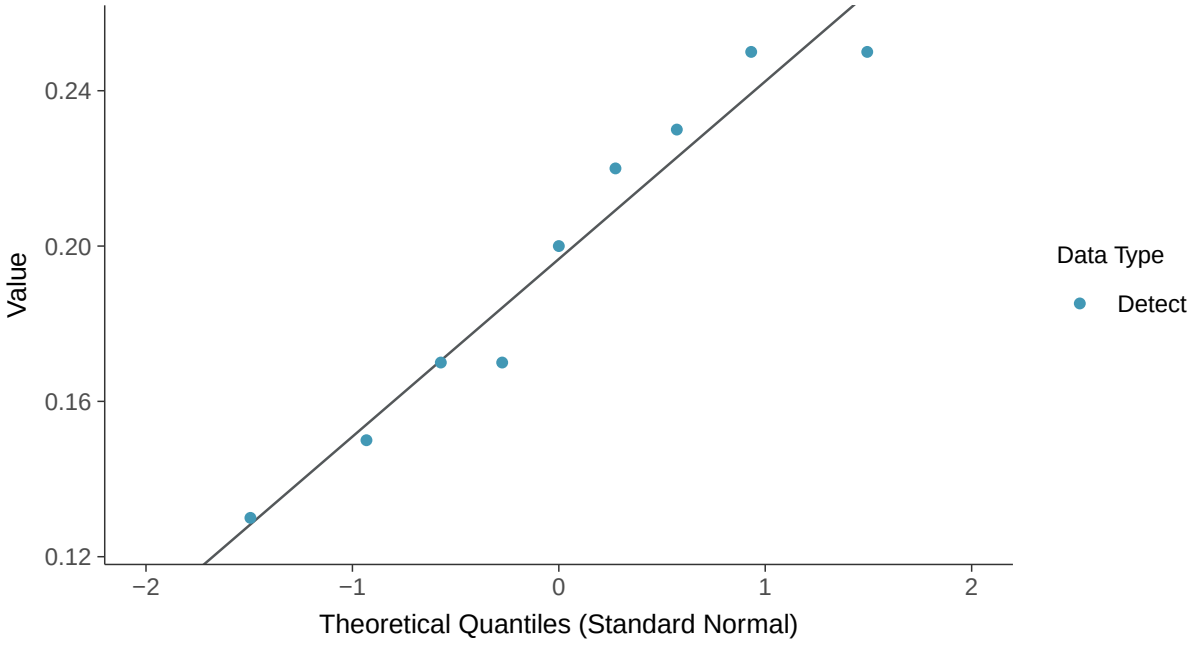
Boxplot by Season

Barium, MW-36 (mg/L)



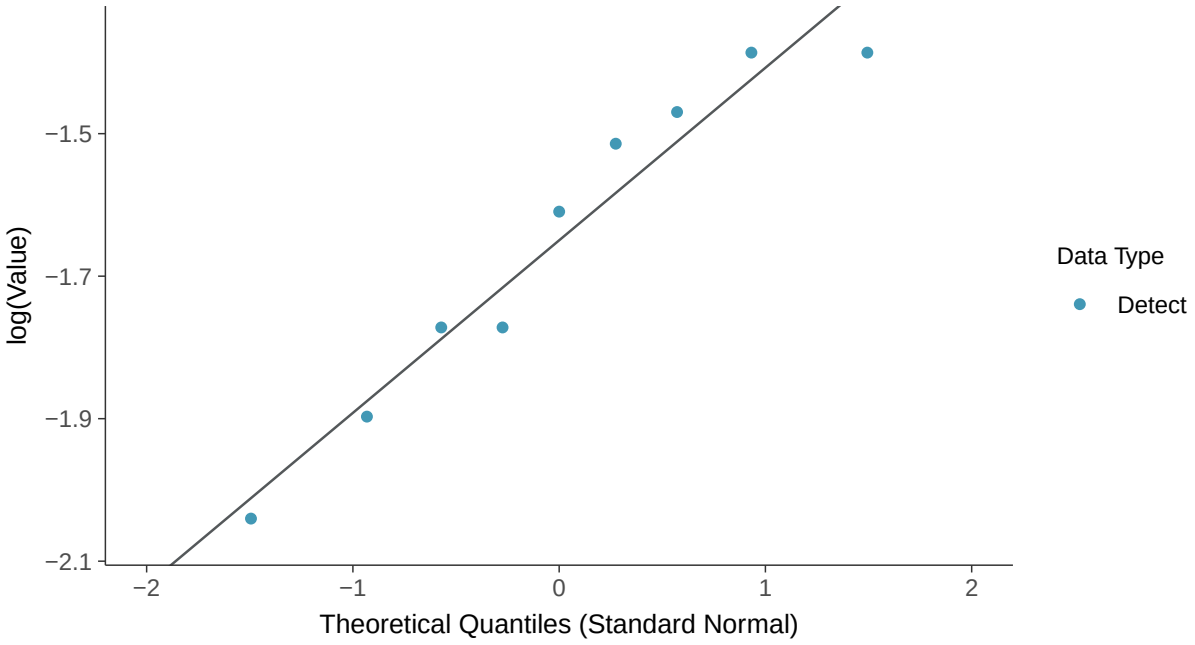
Normal Q-Q plot

Barium, MW-36 (mg/L)



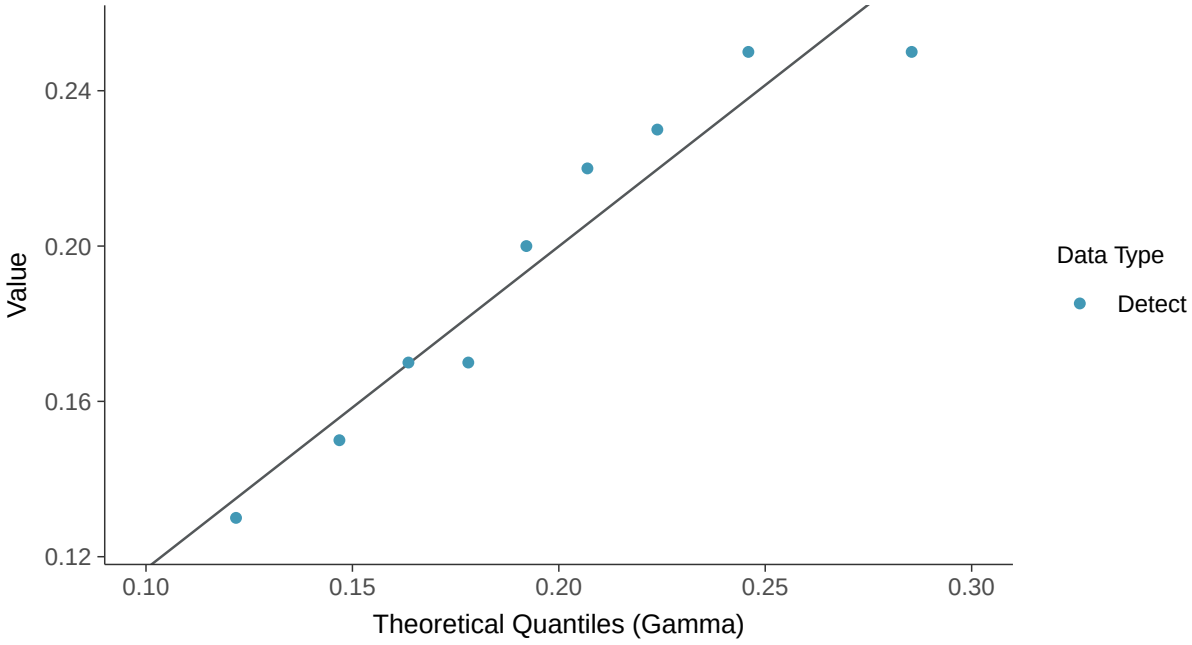
Lognormal Q-Q plot

Barium, MW-36 (mg/L)



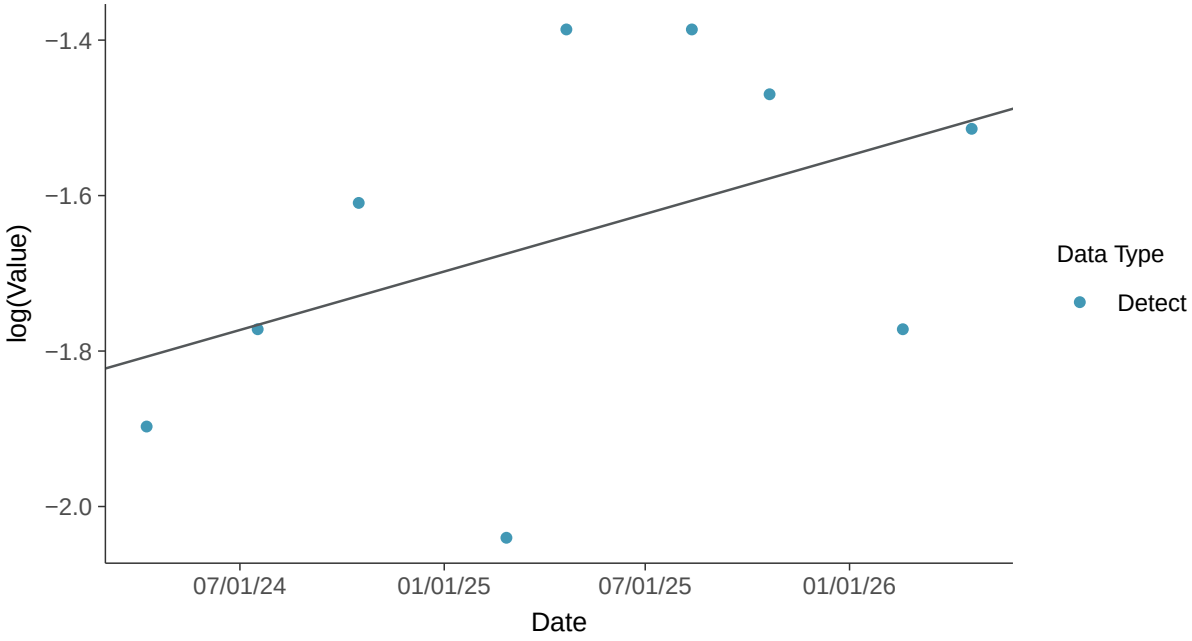
Gamma Q-Q plot

Barium, MW-36 (mg/L)



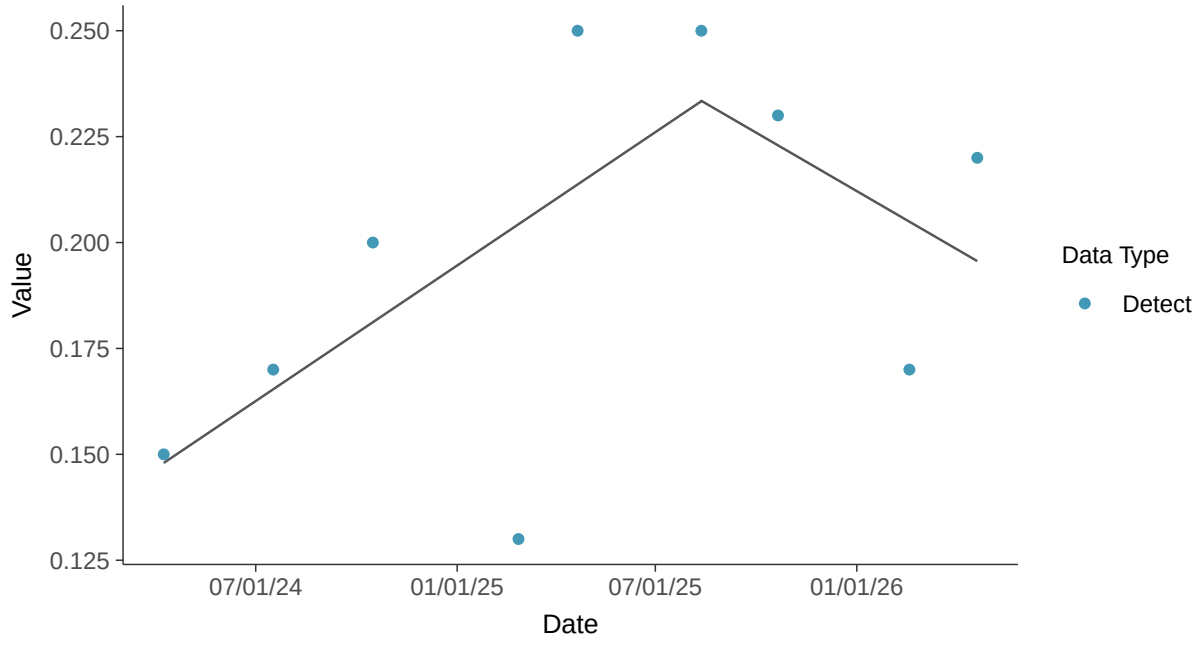
Trend Regression: Lognormal MLE

Barium, MW-36 (mg/L)



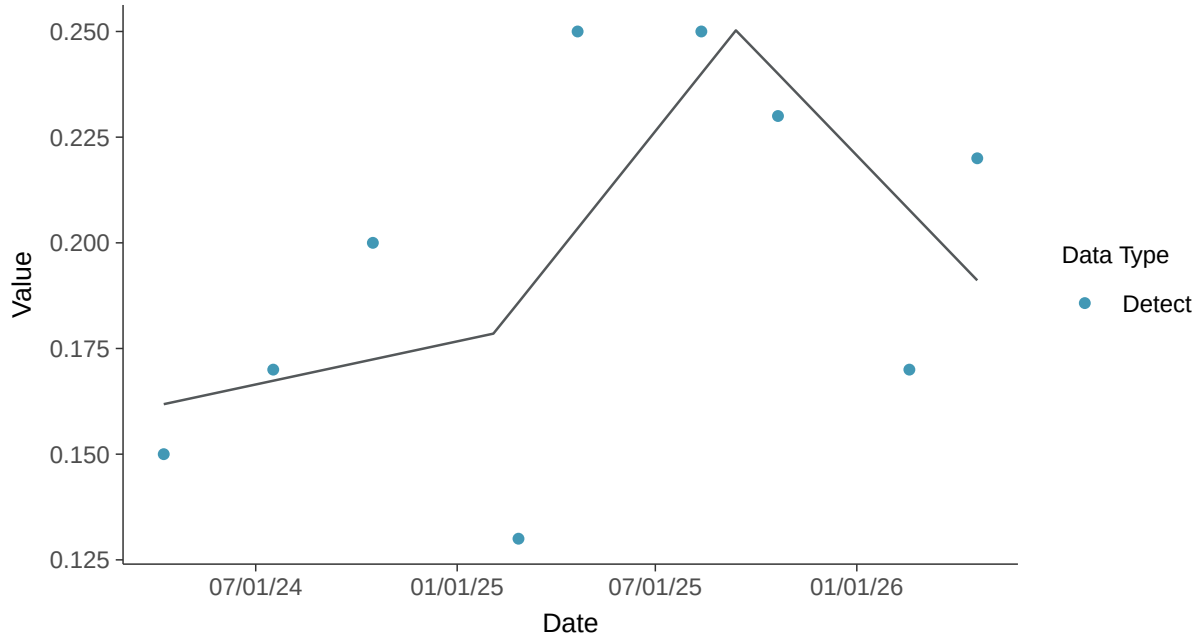
Trend Regression: Piecewise Linear-Linear

Barium, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Barium, MW-36 (mg/L)

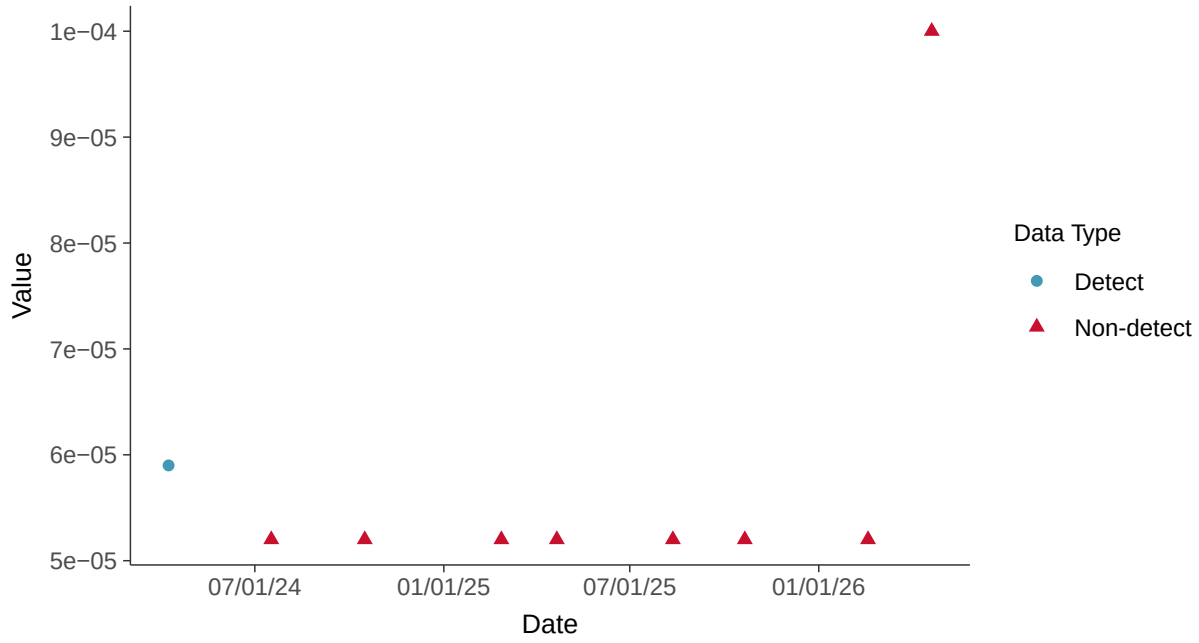


Appendix IV: Beryllium, MW-36

ID: 46_1_4_104

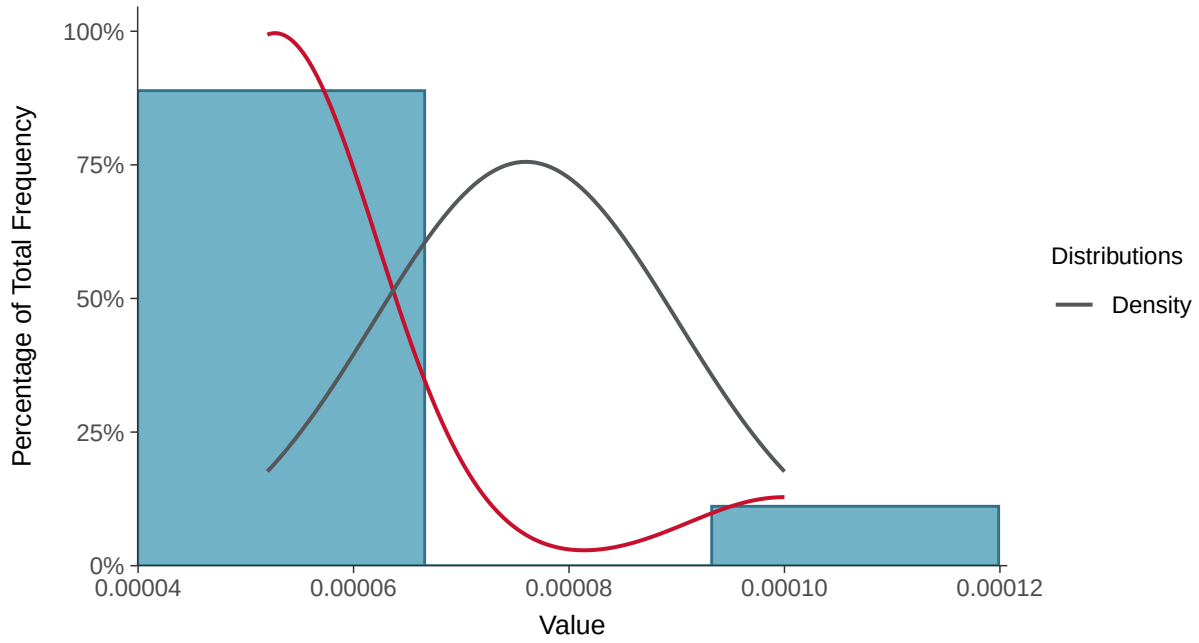
Scatter Plot

Beryllium, MW-36 (mg/L)



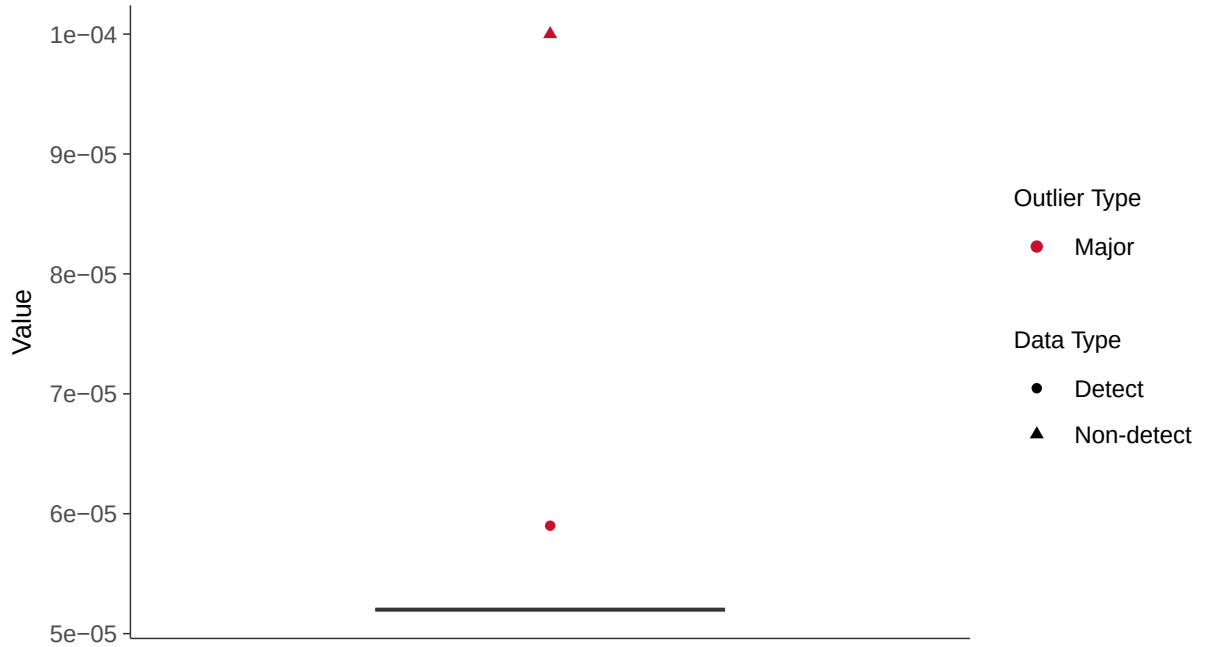
Histogram

Beryllium, MW-36 (mg/L)



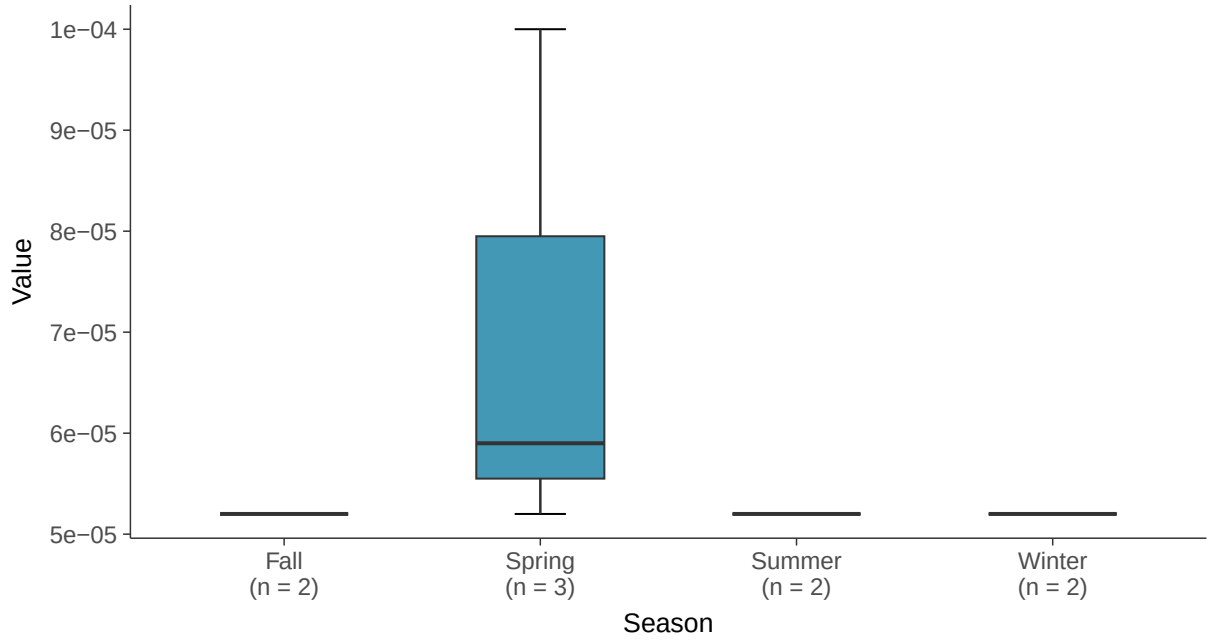
Boxplot

Beryllium, MW-36 (mg/L)



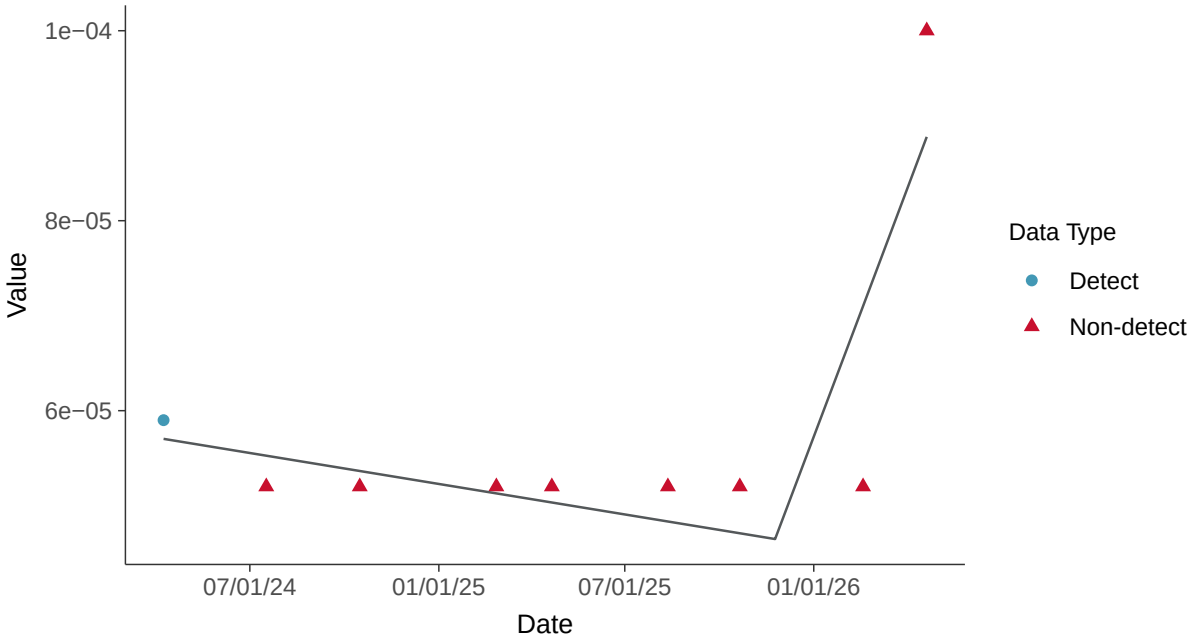
Boxplot by Season

Beryllium, MW-36 (mg/L)



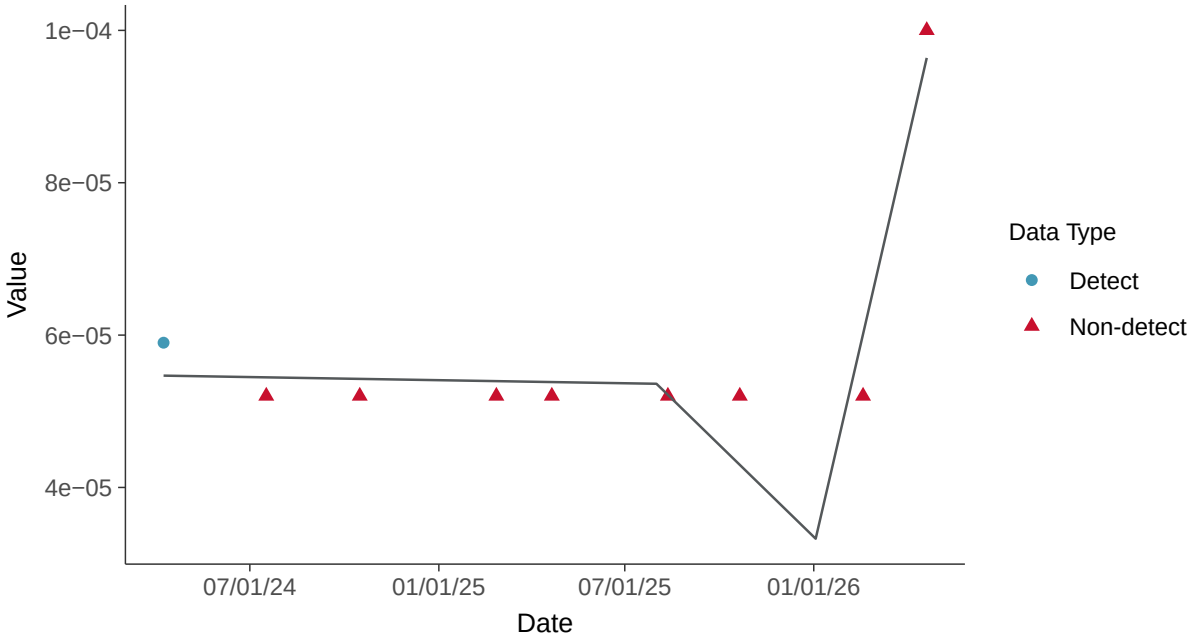
Trend Regression: Piecewise Linear-Linear

Beryllium, MW-36 (mg/L)



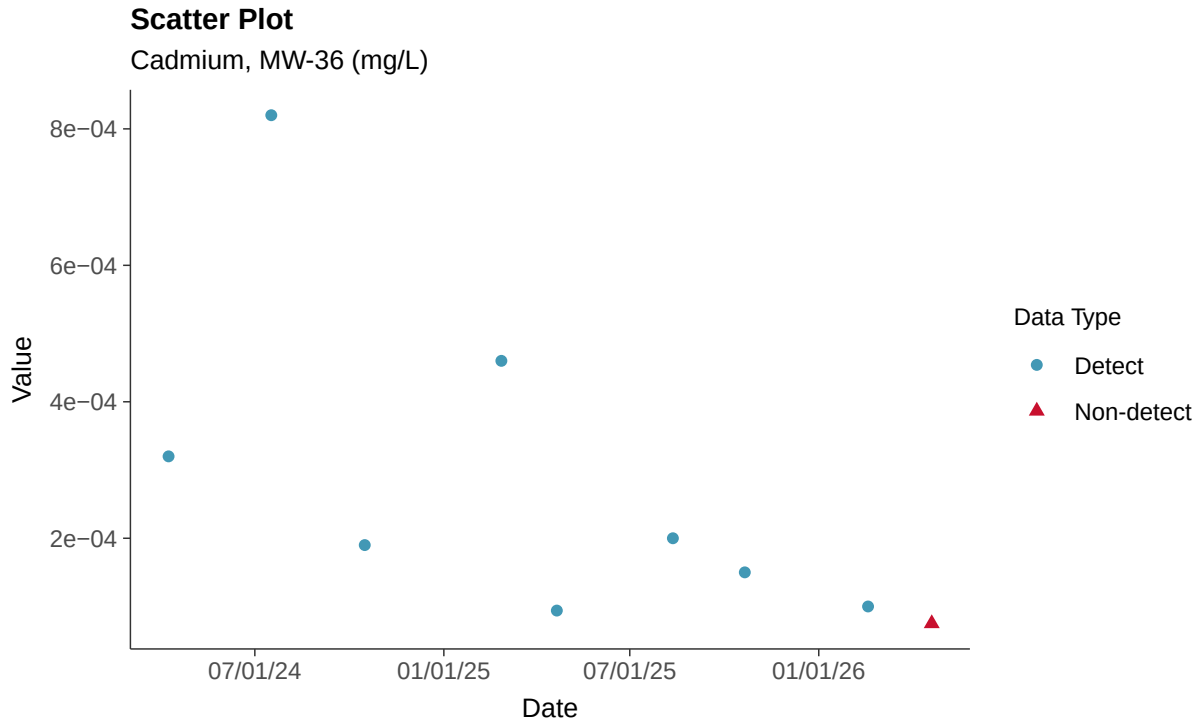
Trend Regression: Piecewise Linear-Linear-Linear

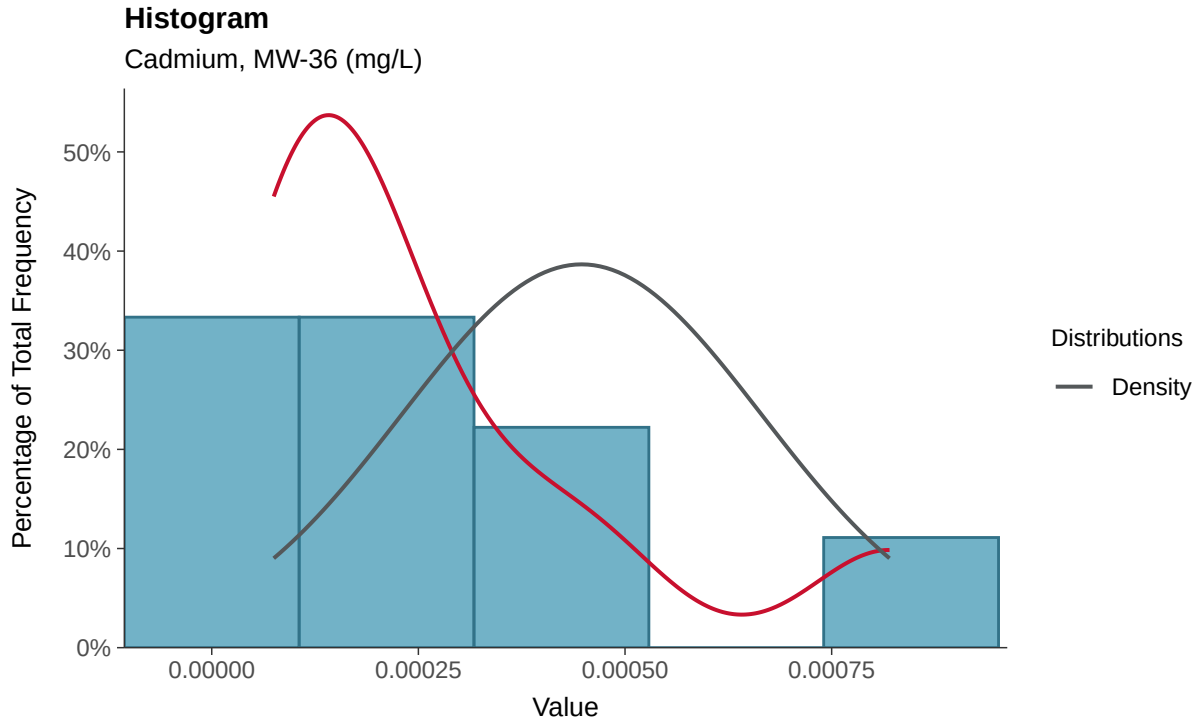
Beryllium, MW-36 (mg/L)



Appendix IV: Cadmium, MW-36

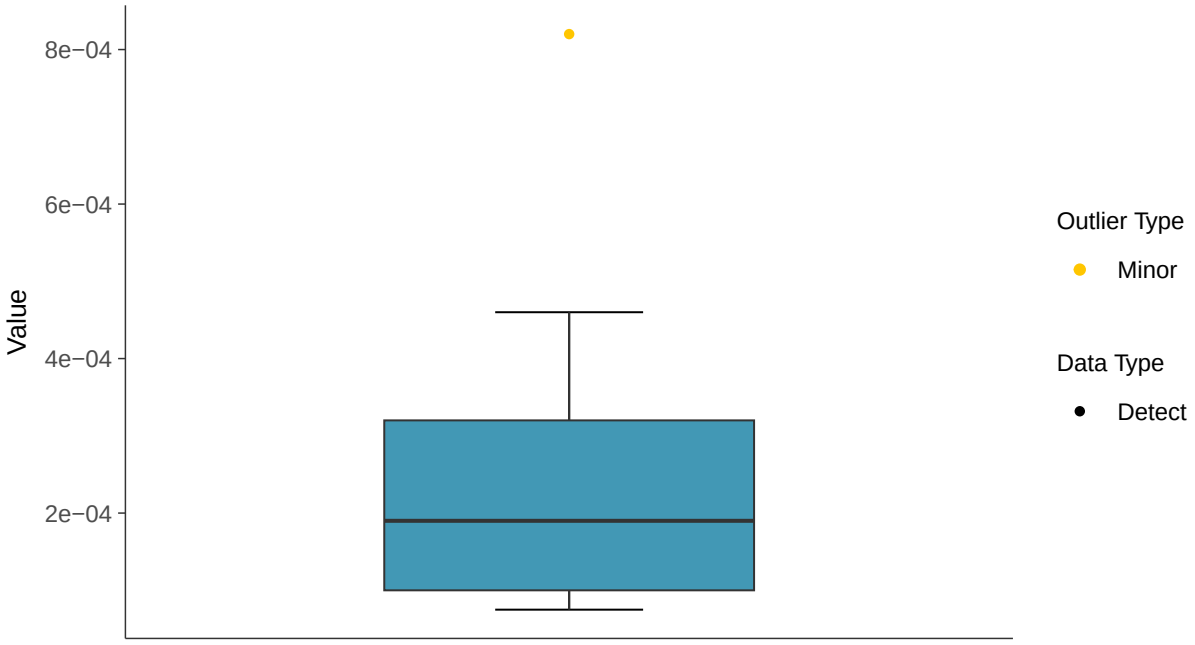
ID: 46_1_4_106





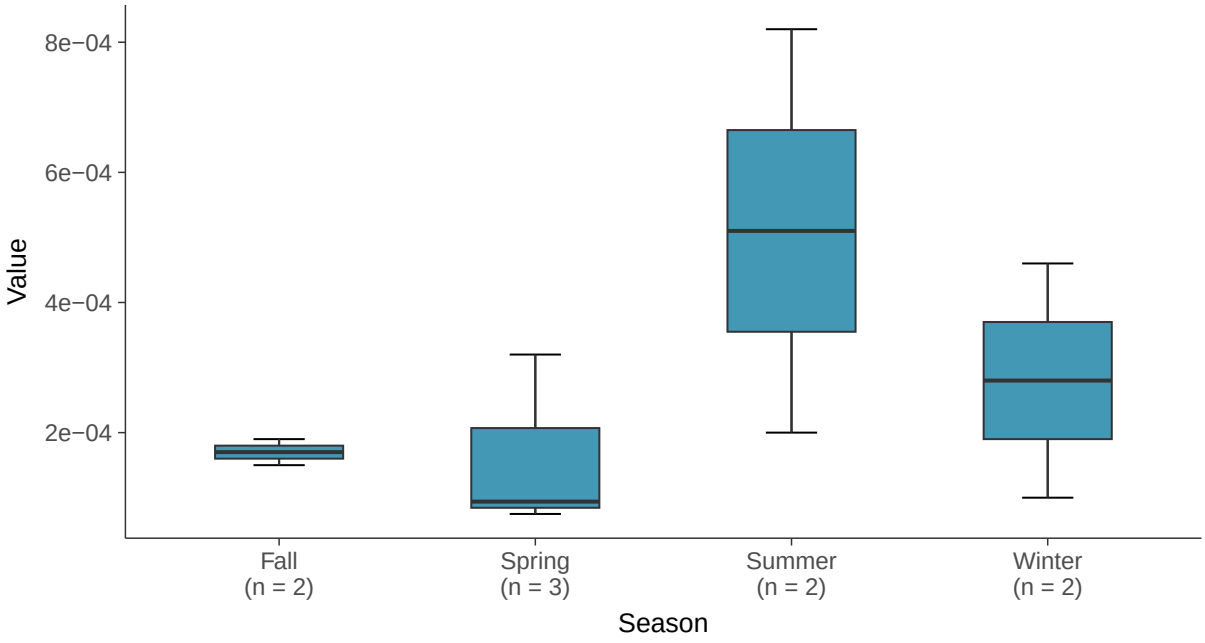
Boxplot

Cadmium, MW-36 (mg/L)



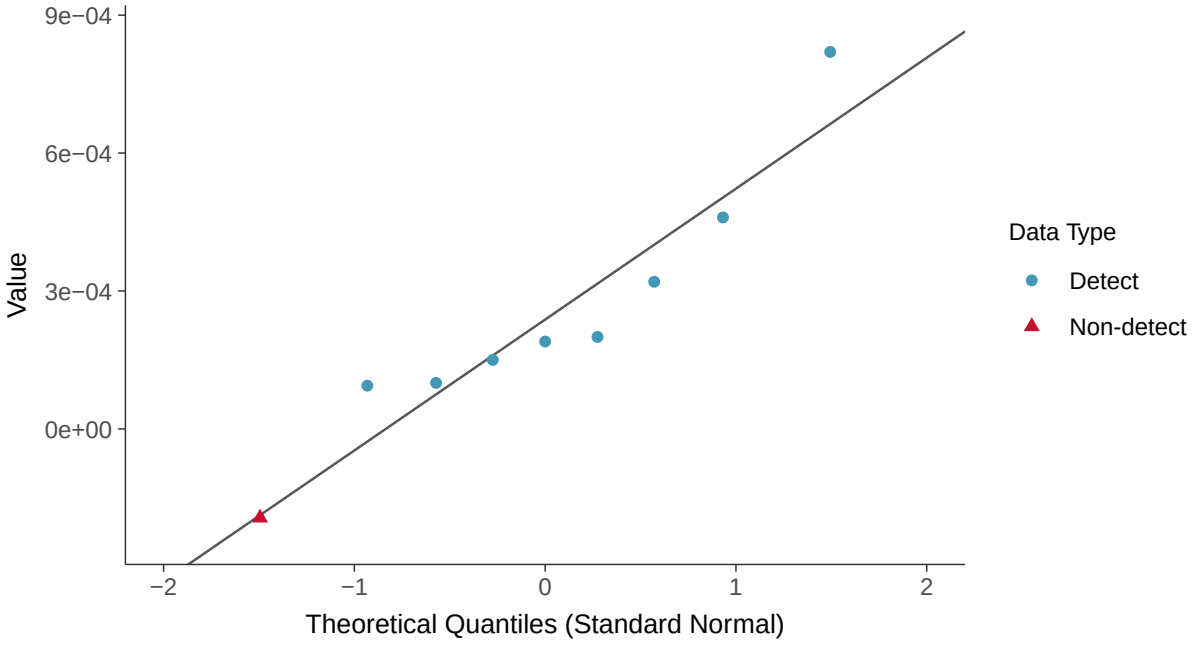
Boxplot by Season

Cadmium, MW-36 (mg/L)



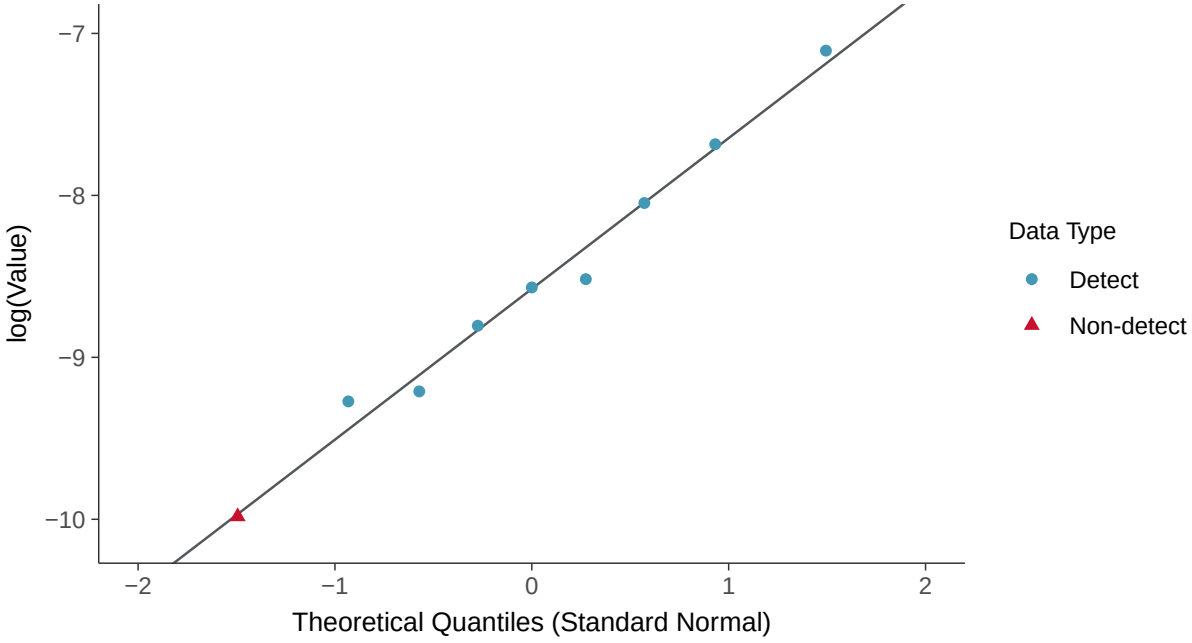
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-36 (mg/L)



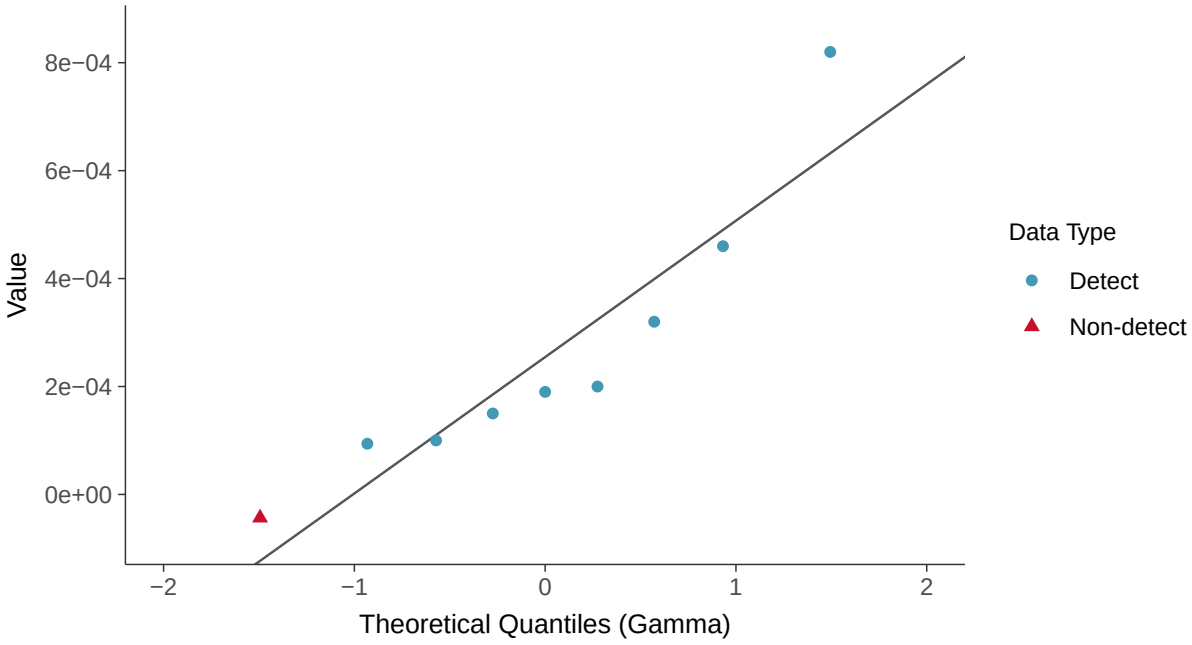
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-36 (mg/L)



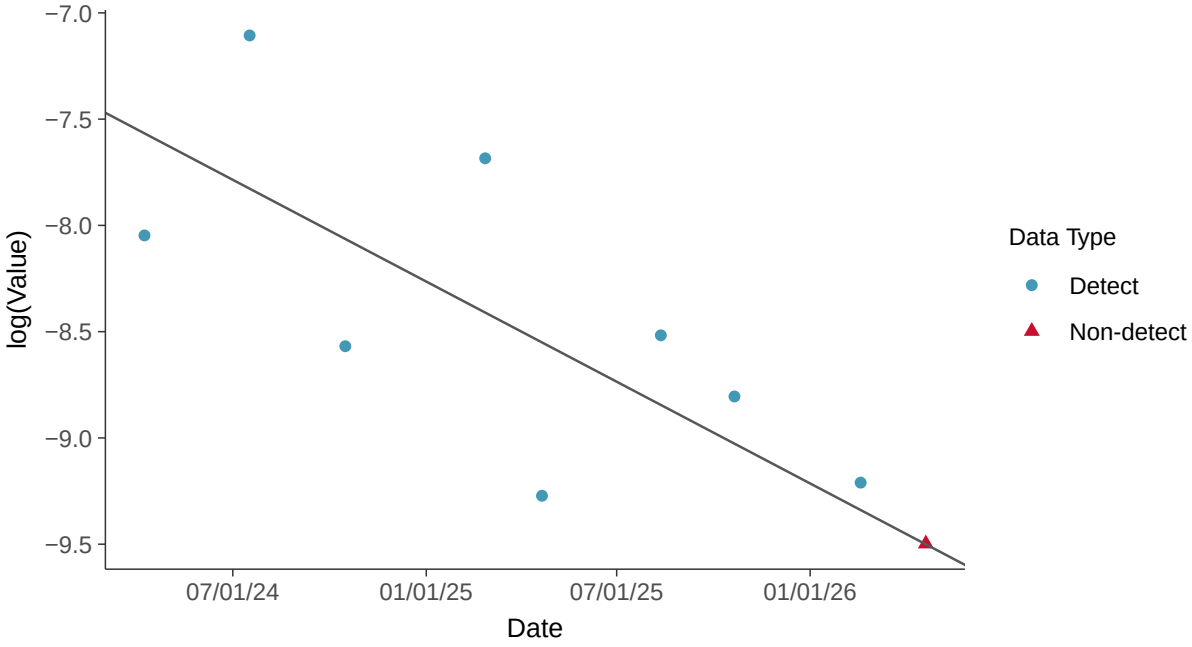
Gamma Q-Q plot using ROS Imputed Estimates

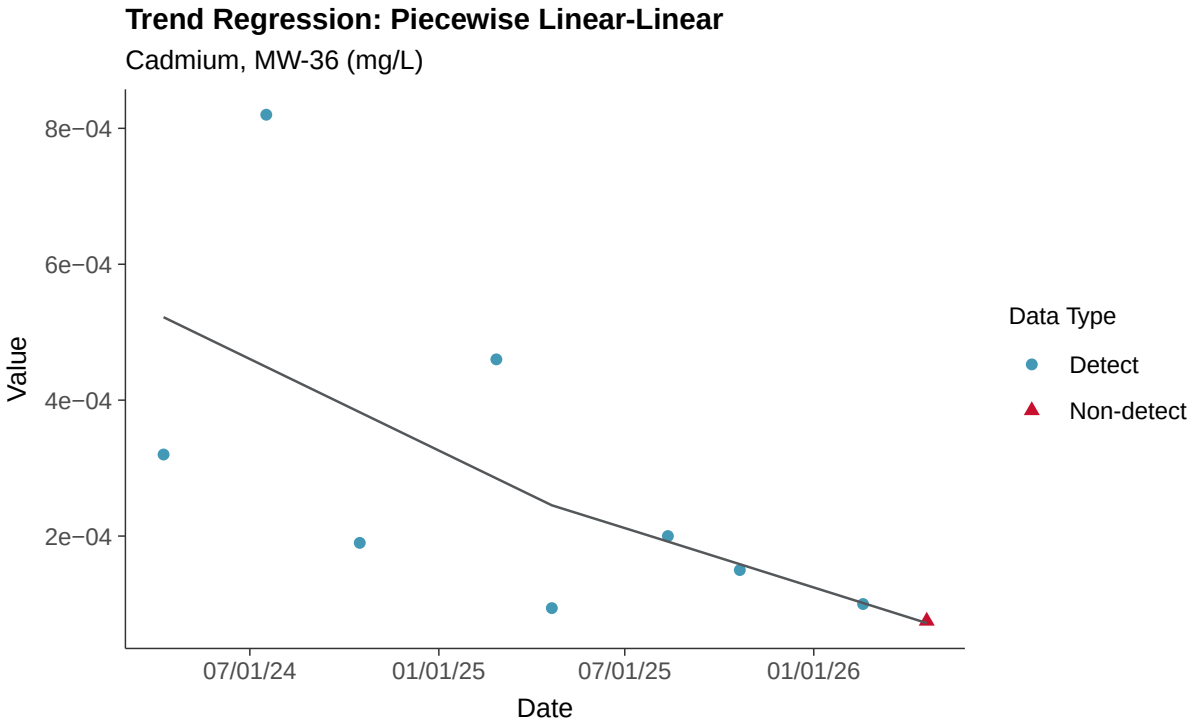
Cadmium, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Cadmium, MW-36 (mg/L)



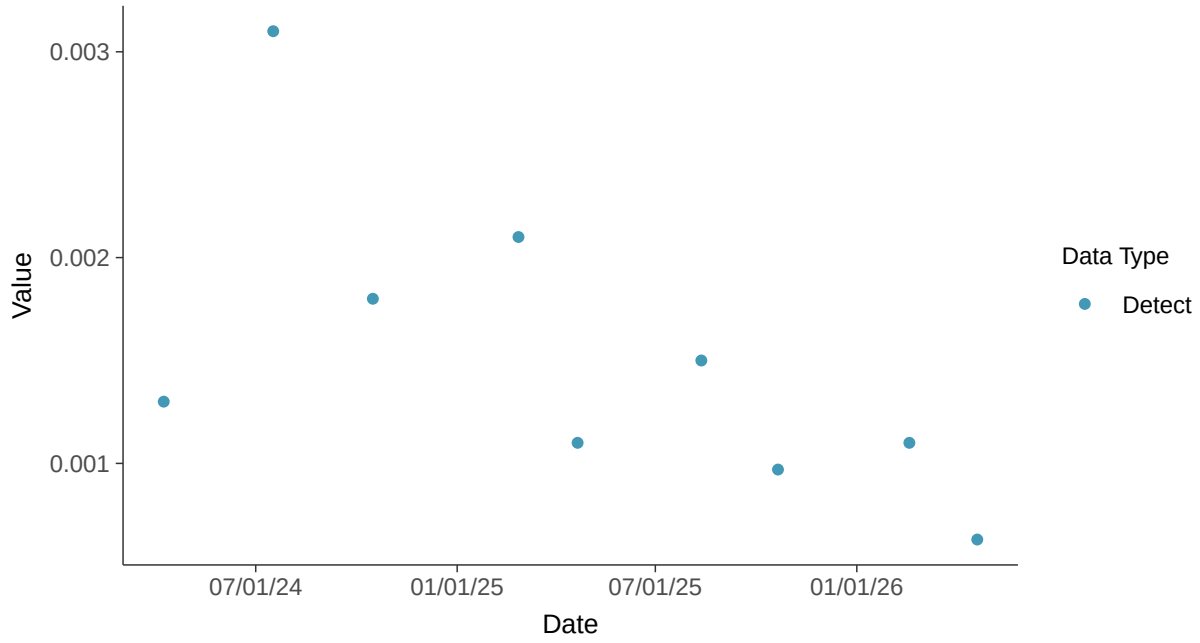

Trend Regression: Piecewise Linear-Linear
Cadmium, MW-36 (mg/L)
8e−04
6e−04
4e−04
2e−04
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Chromium, Total, MW-36

ID: 46_1_4_109

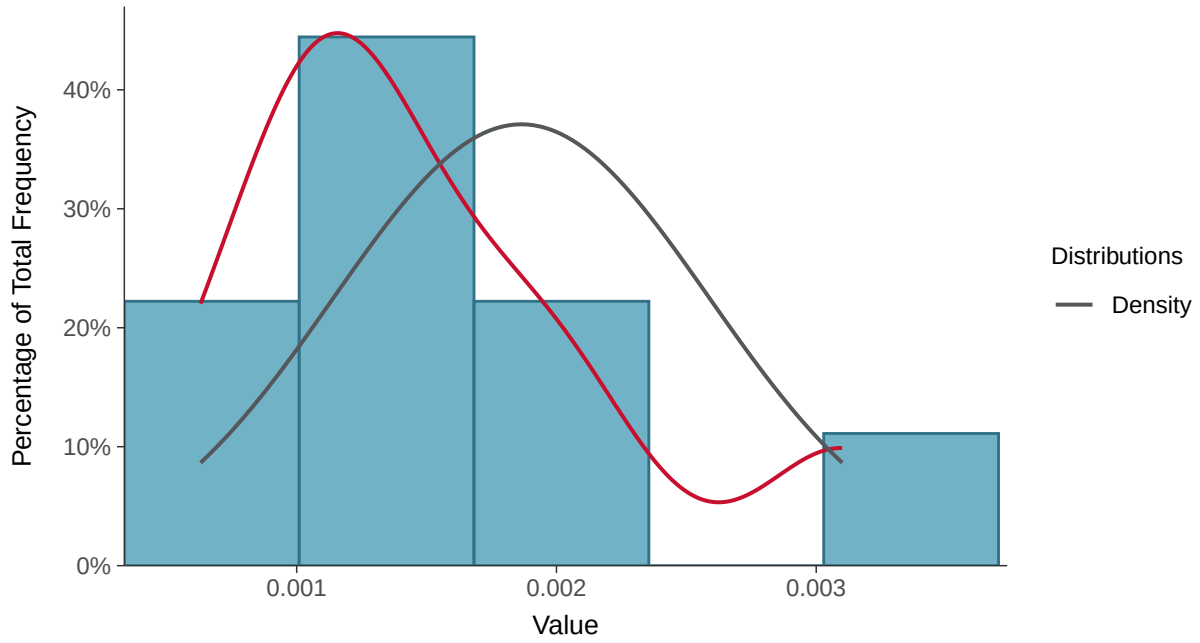
Scatter Plot

Chromium, Total, MW-36 (mg/L)



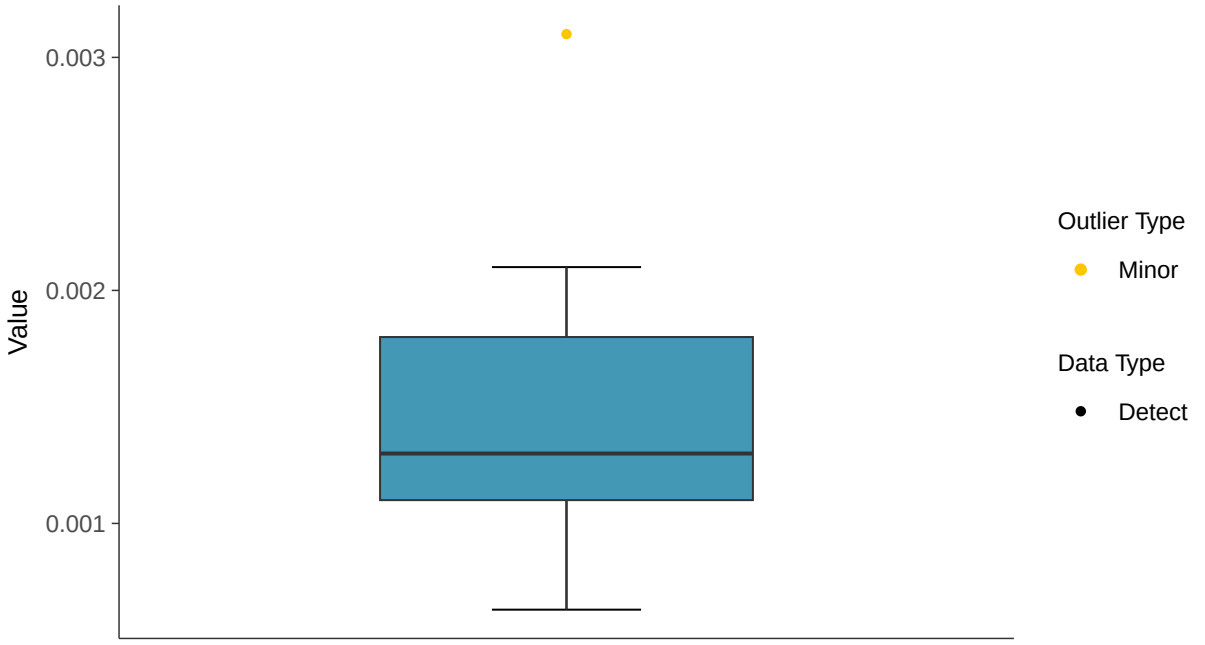
Histogram

Chromium, Total, MW-36 (mg/L)



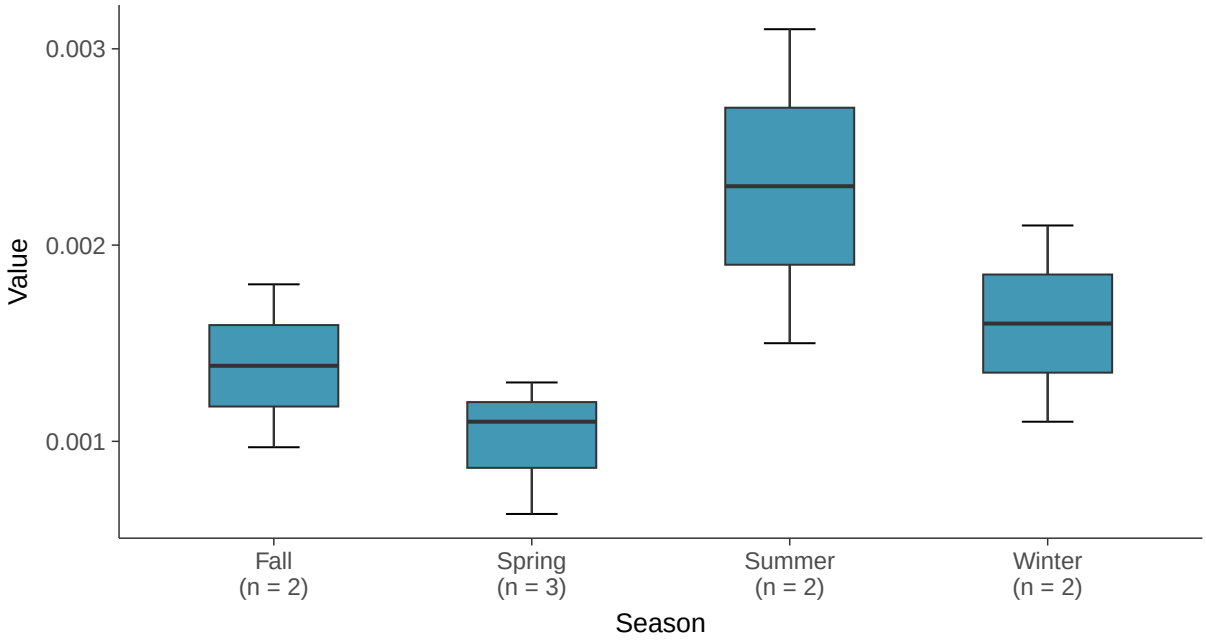
Boxplot

Chromium, Total, MW-36 (mg/L)



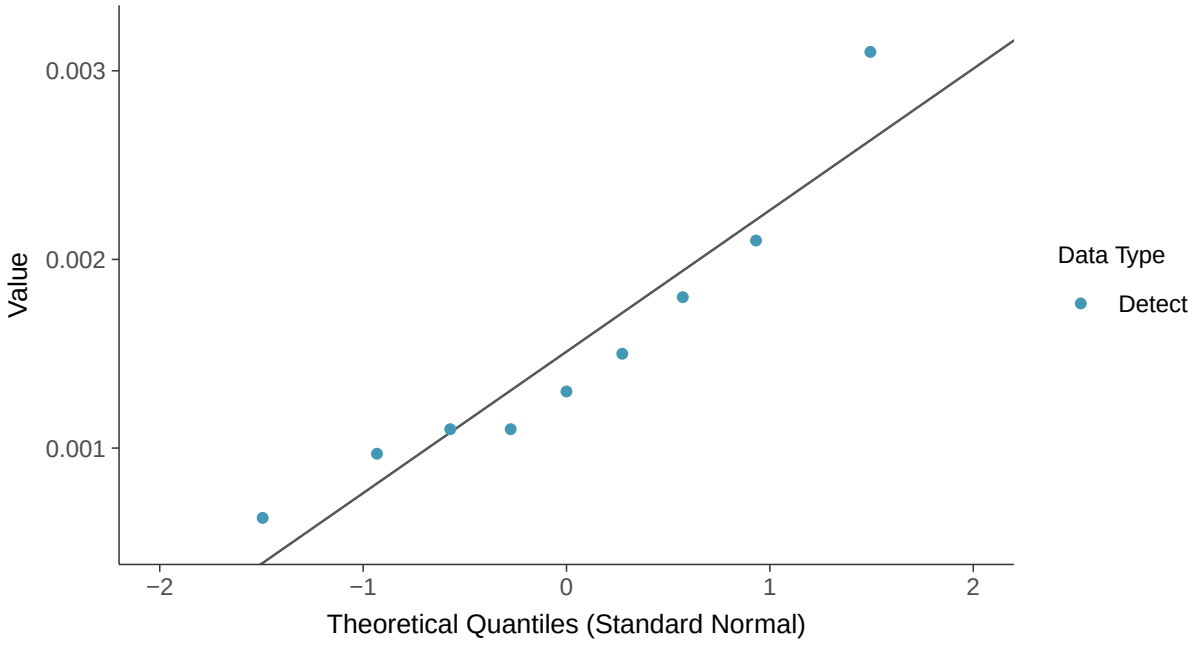
Boxplot by Season

Chromium, Total, MW-36 (mg/L)



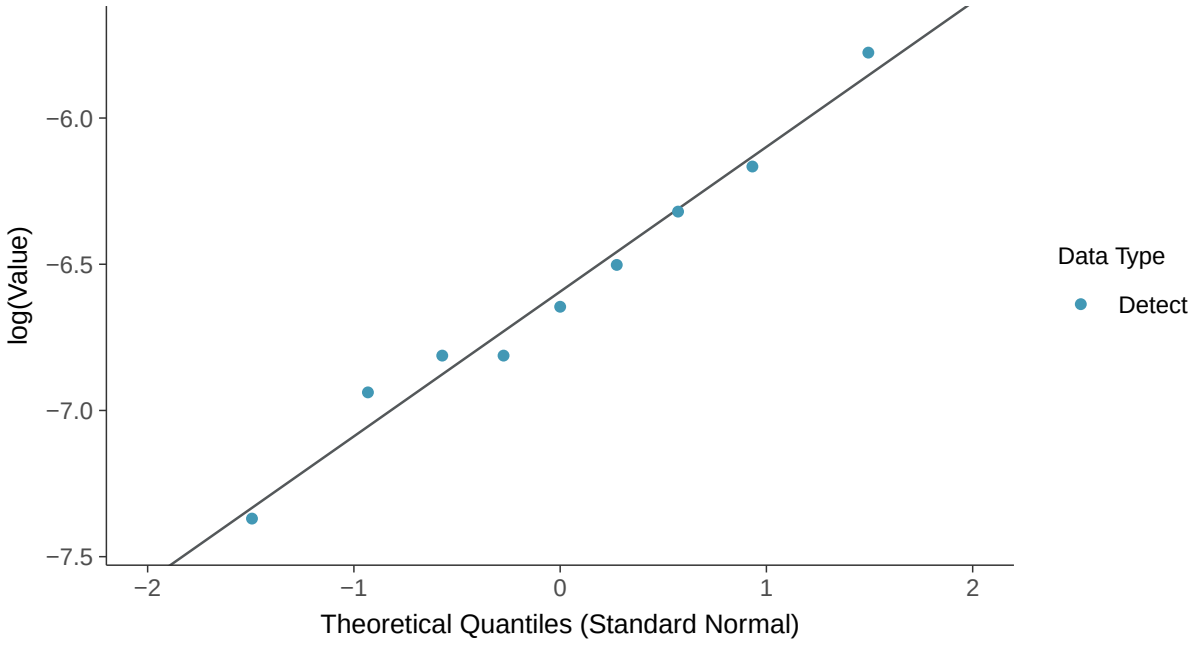
Normal Q-Q plot

Chromium, Total, MW-36 (mg/L)



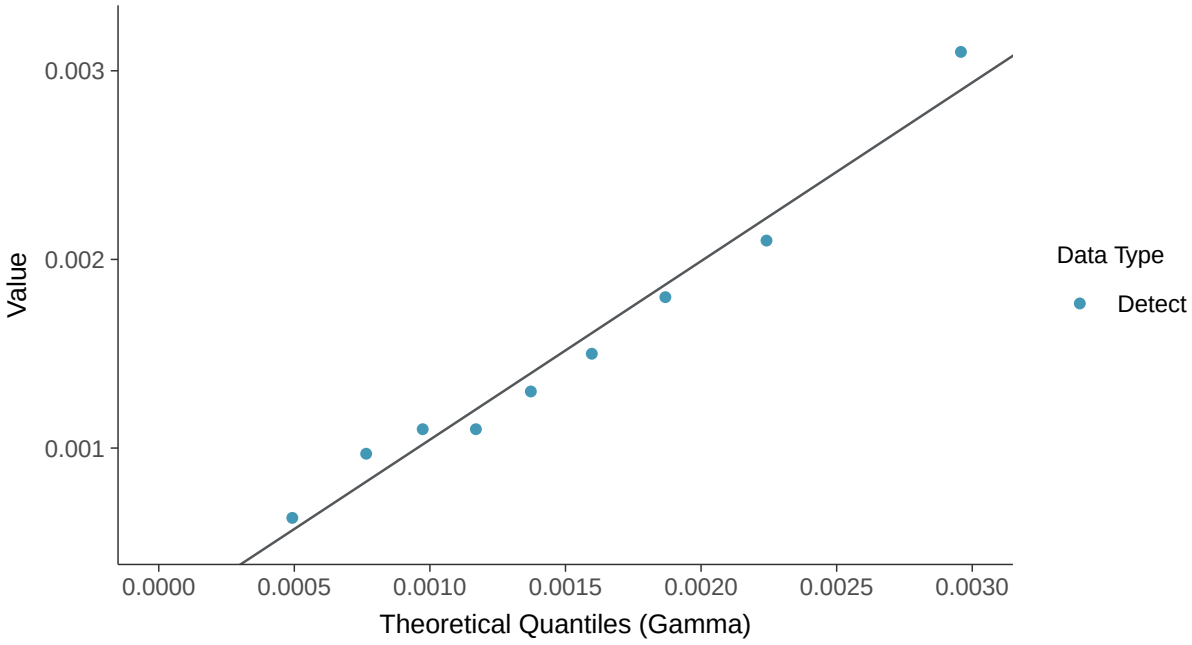
Lognormal Q-Q plot

Chromium, Total, MW-36 (mg/L)



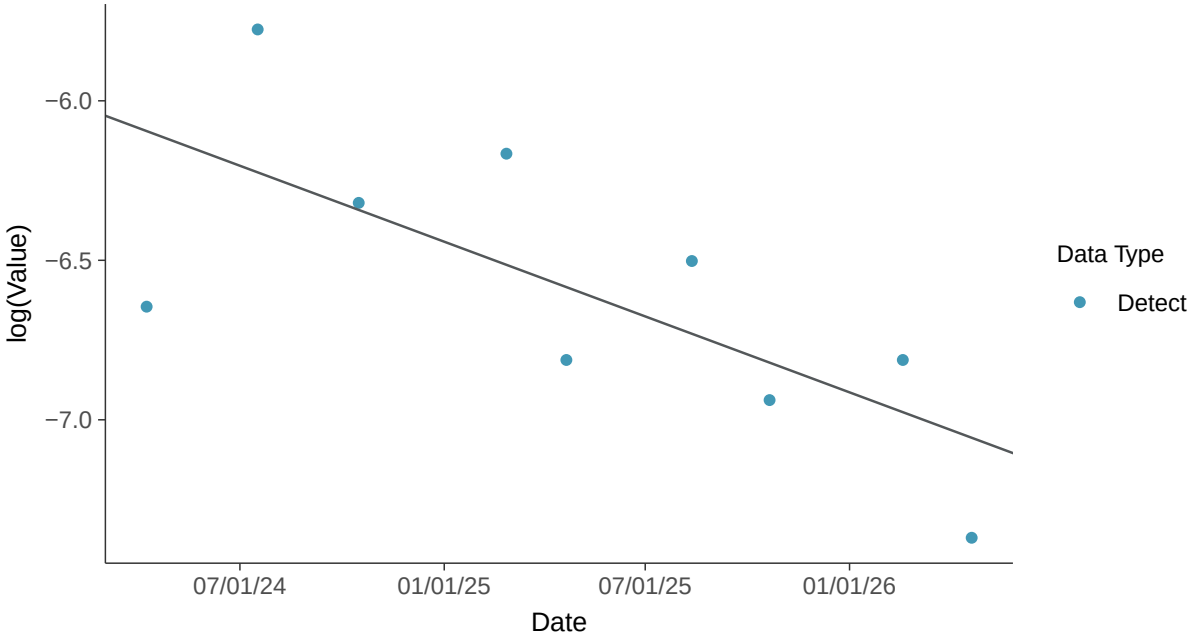
Gamma Q-Q plot

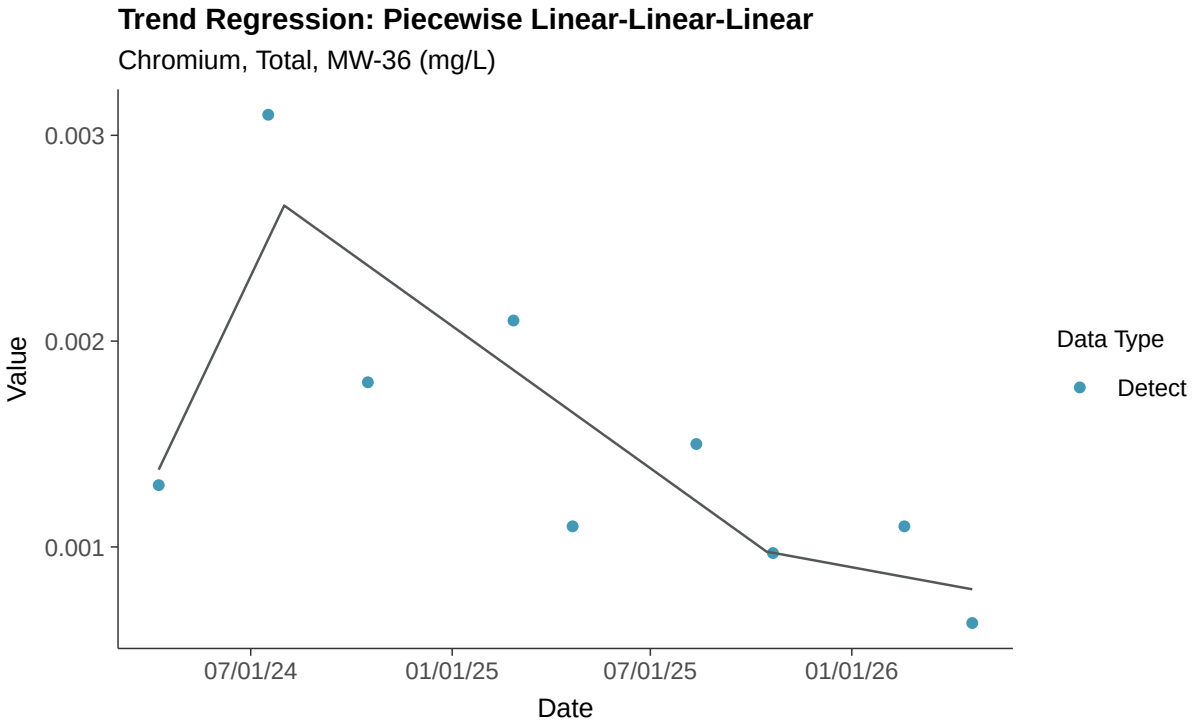
Chromium, Total, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Chromium, Total, MW-36 (mg/L)



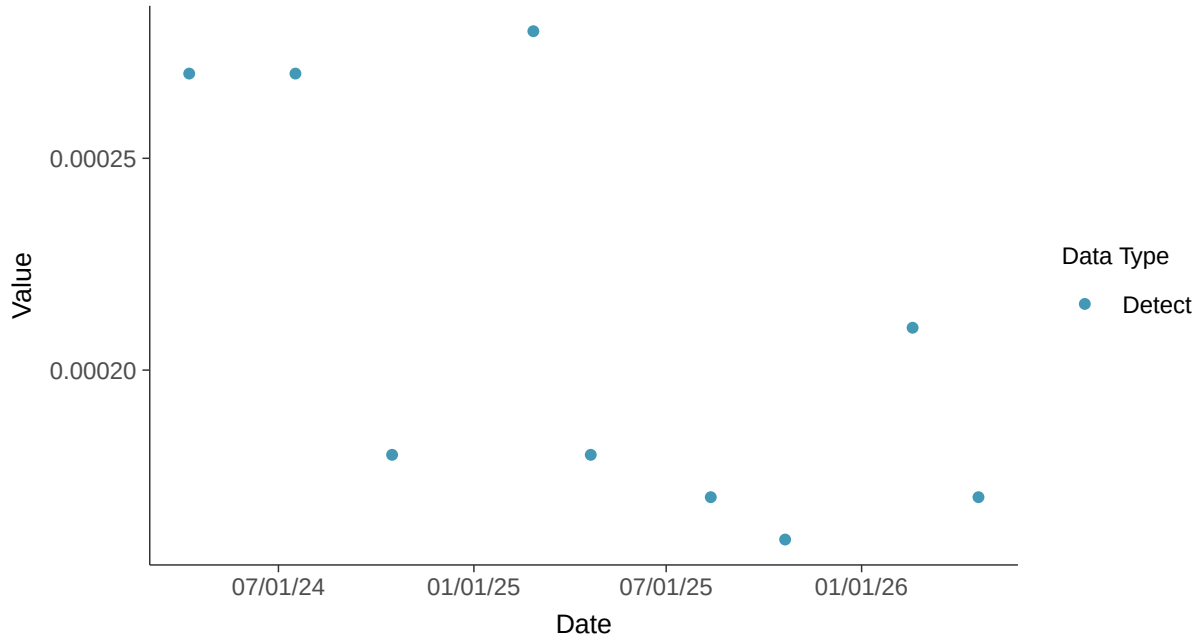

Trend Regression: Piecewise Linear-Linear-Linear
Chromium, Total, MW-36 (mg/L)
0.003
0.002
0.001
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Cobalt, MW-36

ID: 46_1_4_110

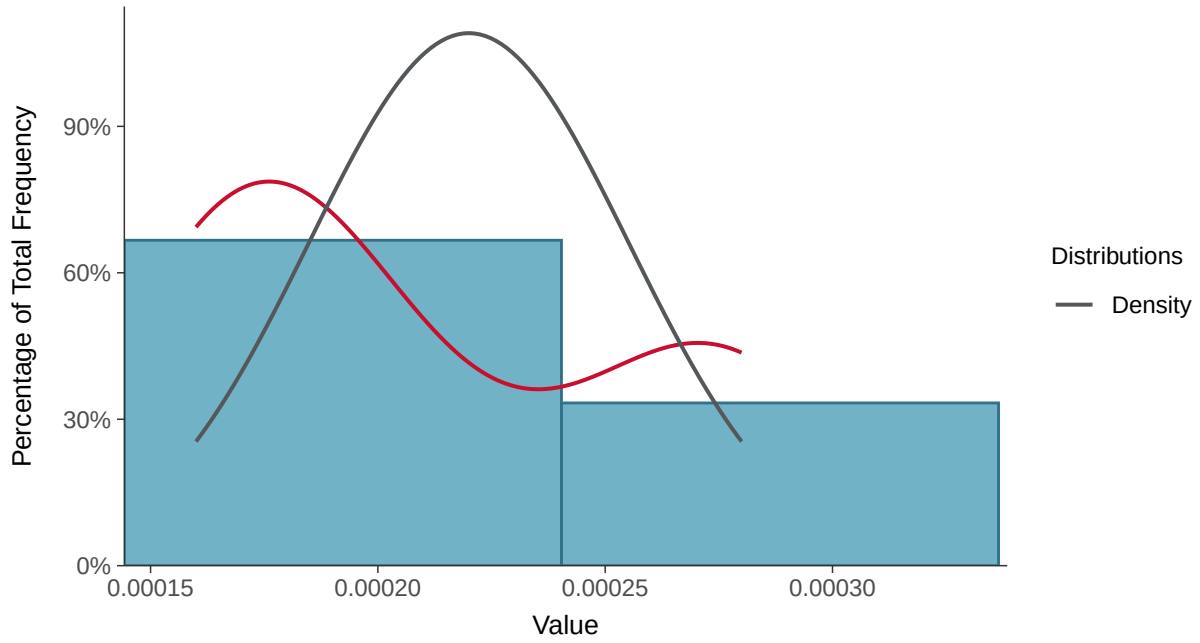
Scatter Plot

Cobalt, MW-36 (mg/L)



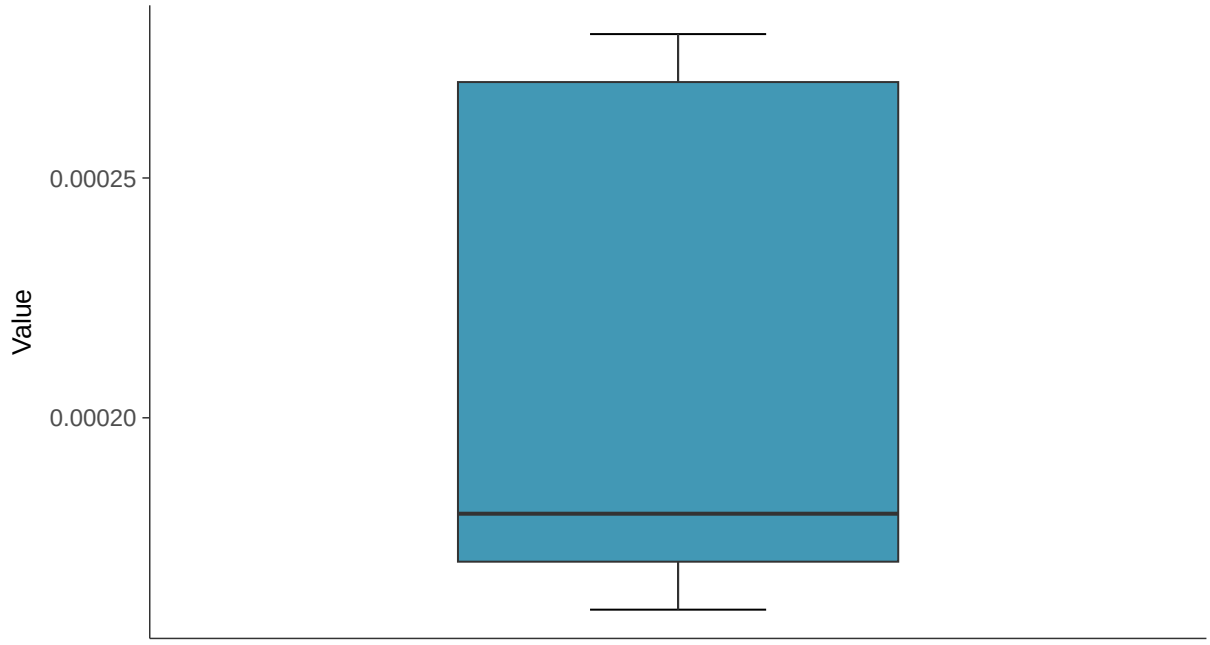
Histogram

Cobalt, MW-36 (mg/L)



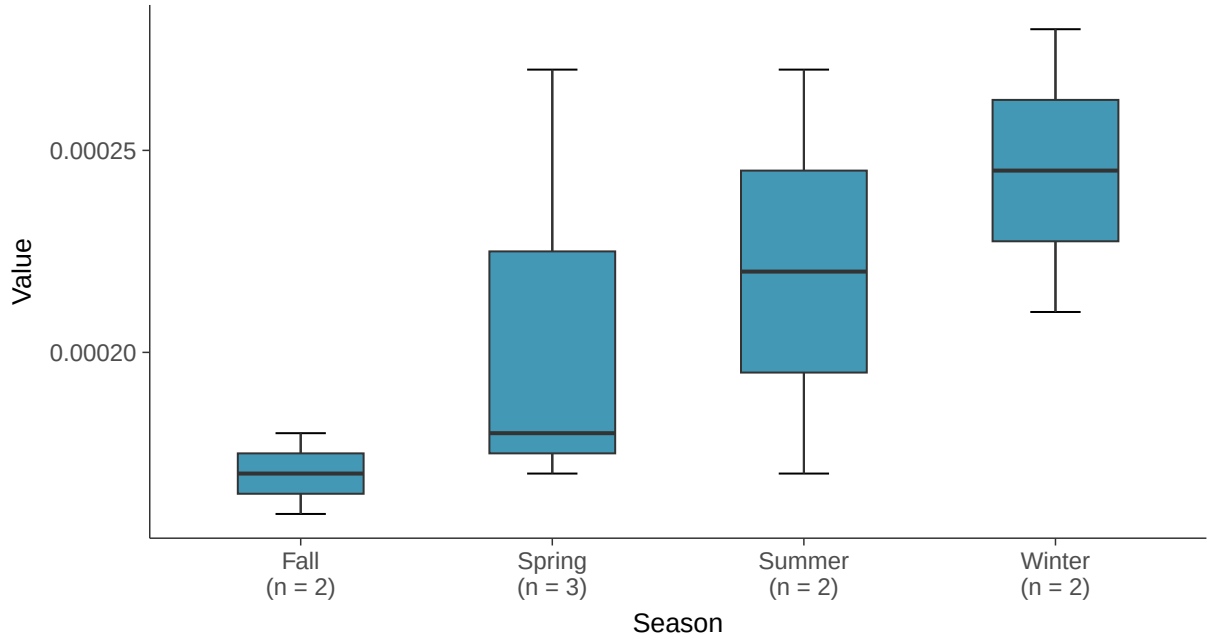
Boxplot

Cobalt, MW-36 (mg/L)



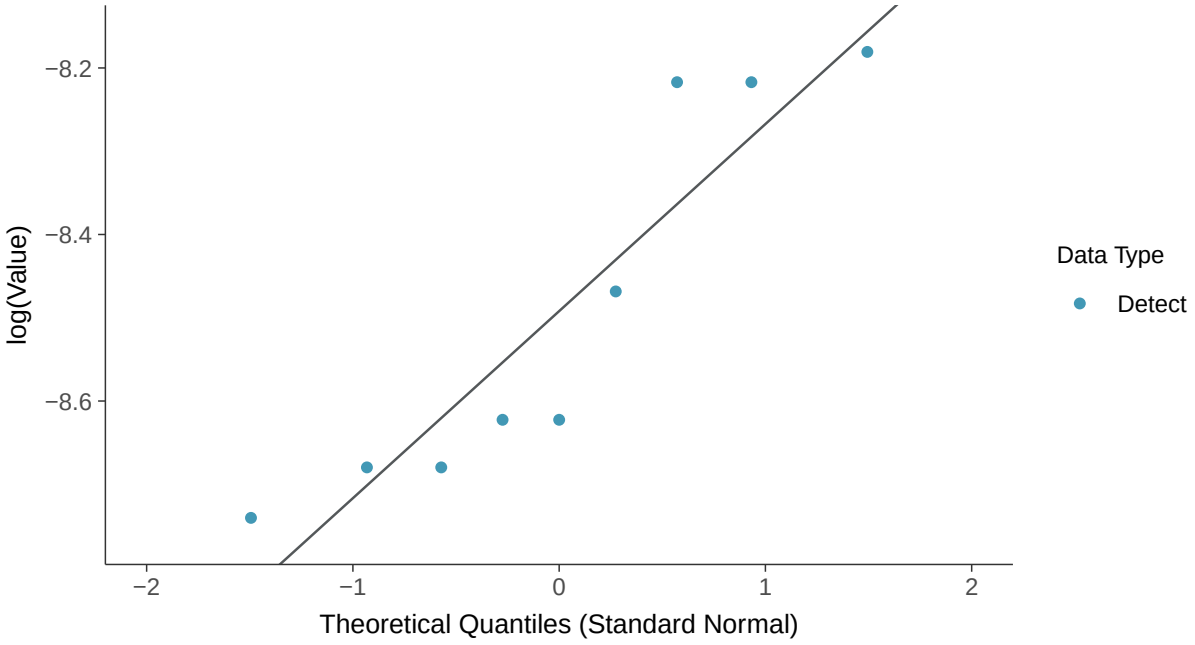
Boxplot by Season

Cobalt, MW-36 (mg/L)



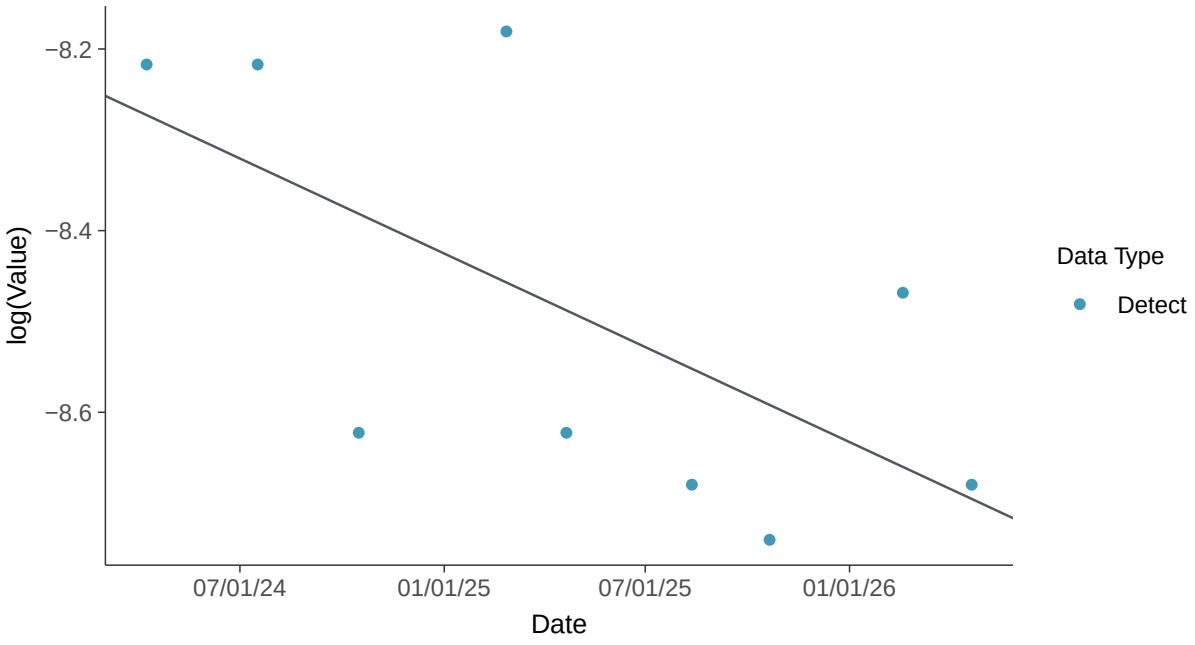
Lognormal Q-Q plot

Cobalt, MW-36 (mg/L)



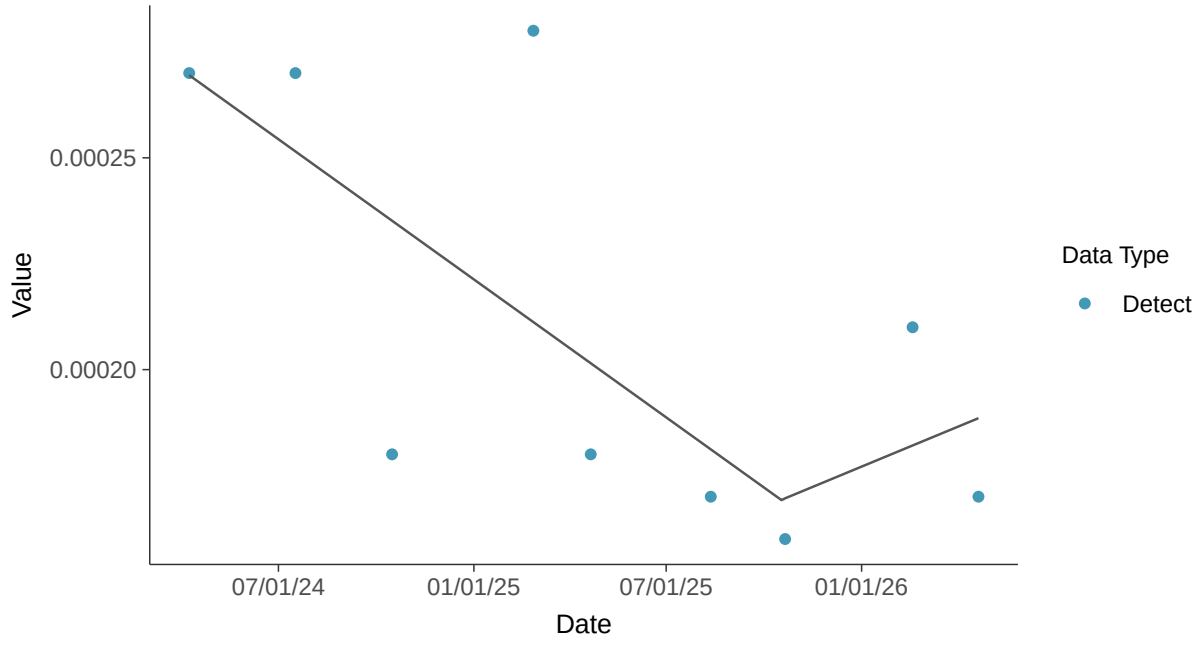
Trend Regression: Lognormal MLE

Cobalt, MW-36 (mg/L)



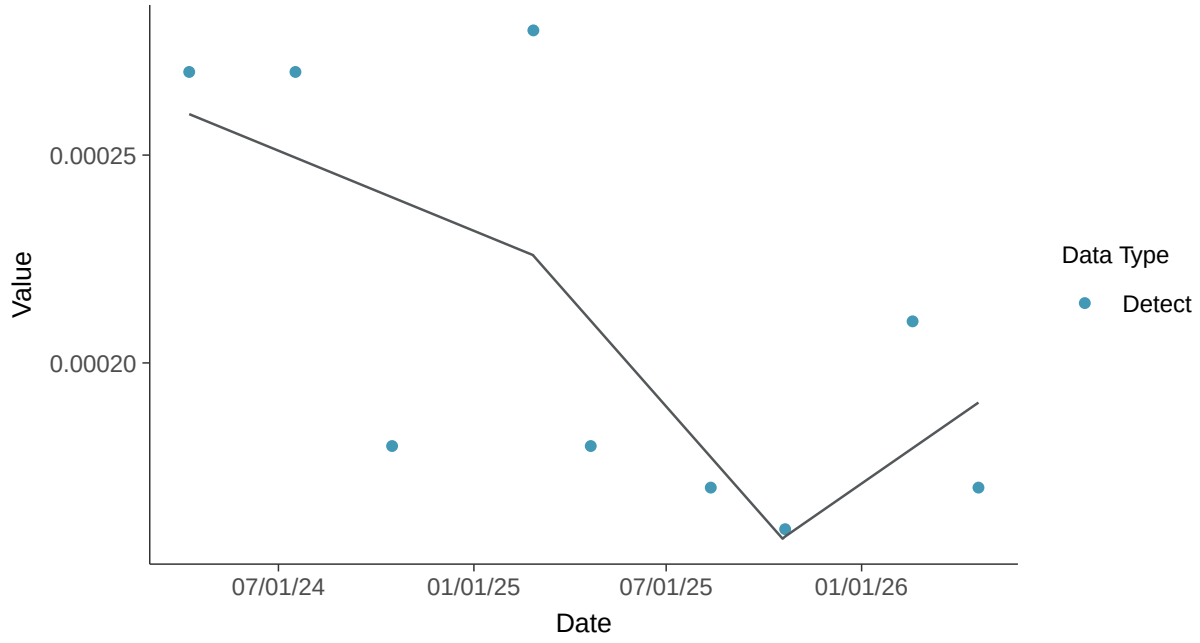
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-36 (mg/L)

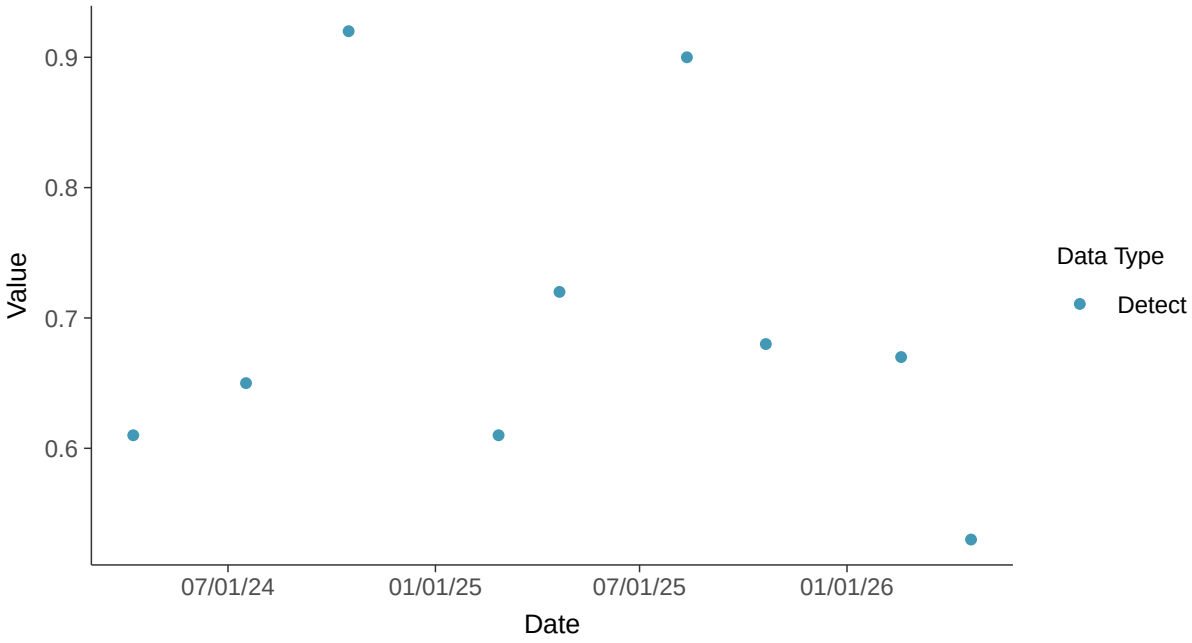


Appendix IV: Fluoride (App IV), MW-36

ID: 46_1_4_113

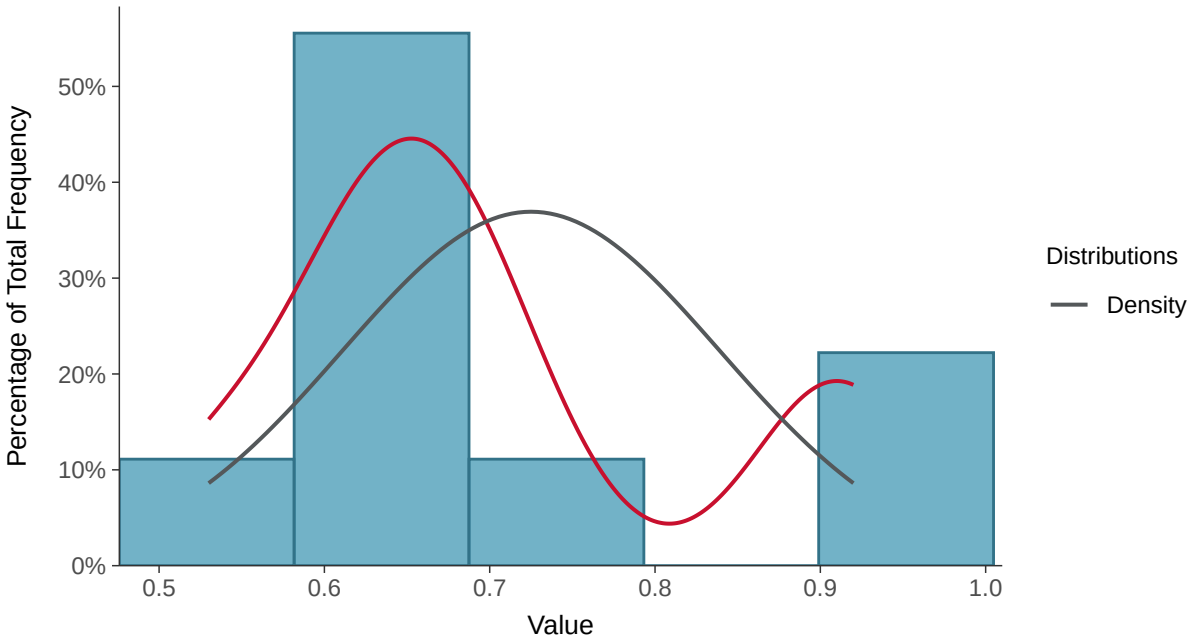
Scatter Plot

Fluoride (App IV), MW-36 (mg/L)



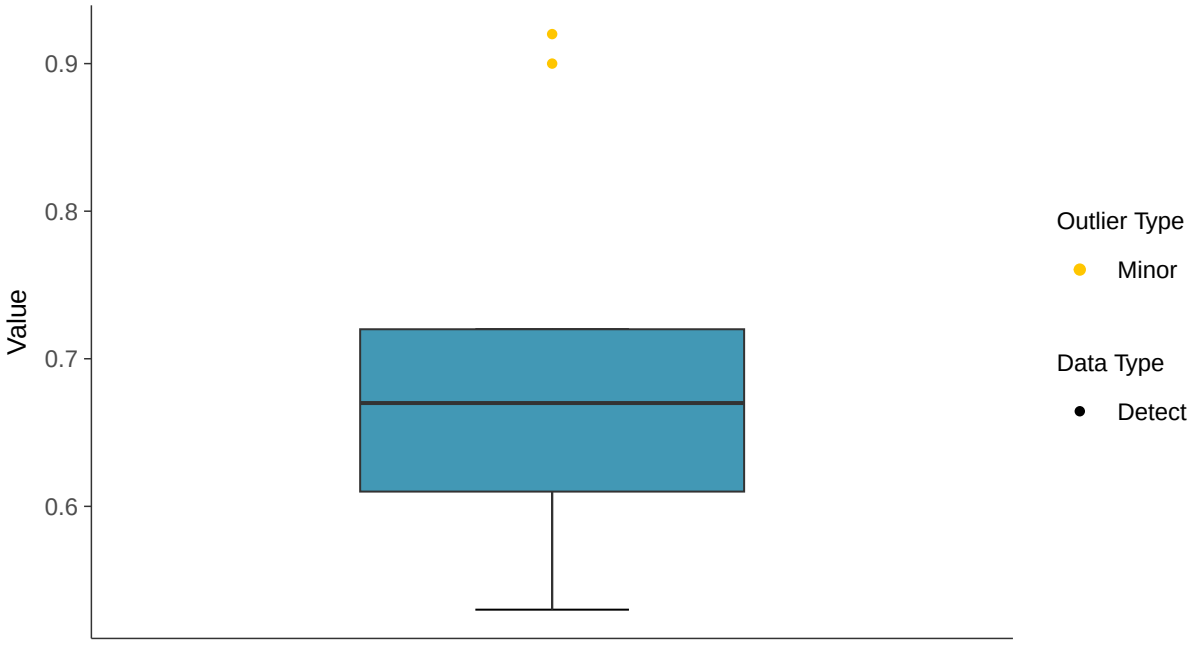
Histogram

Fluoride (App IV), MW-36 (mg/L)



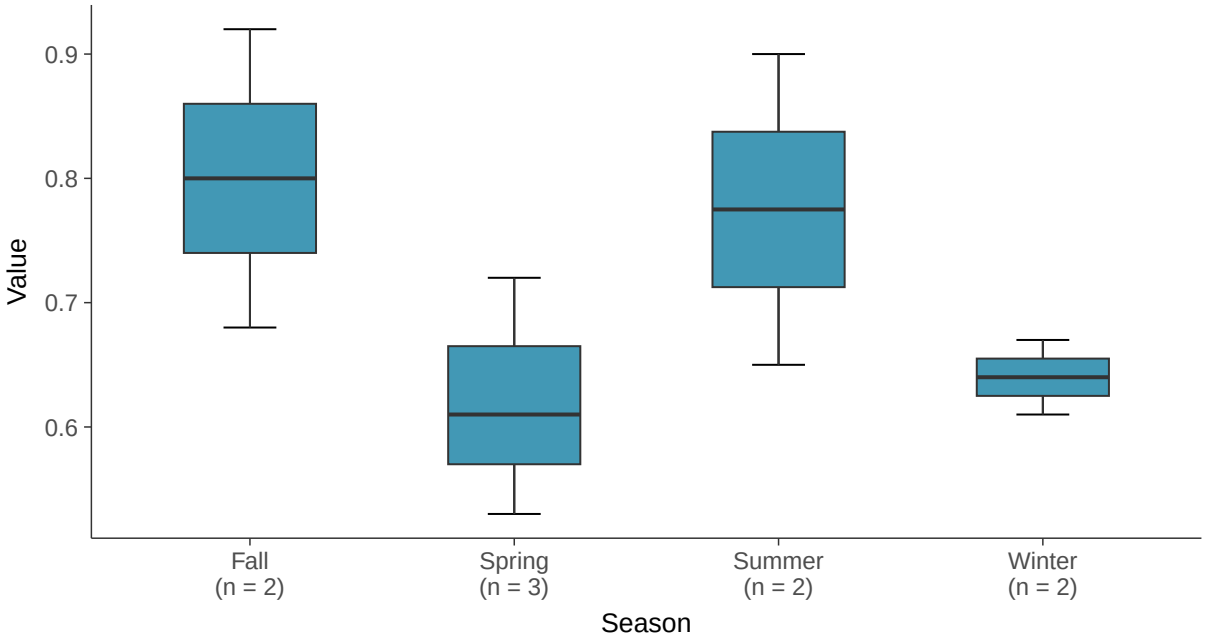
Boxplot

Fluoride (App IV), MW-36 (mg/L)



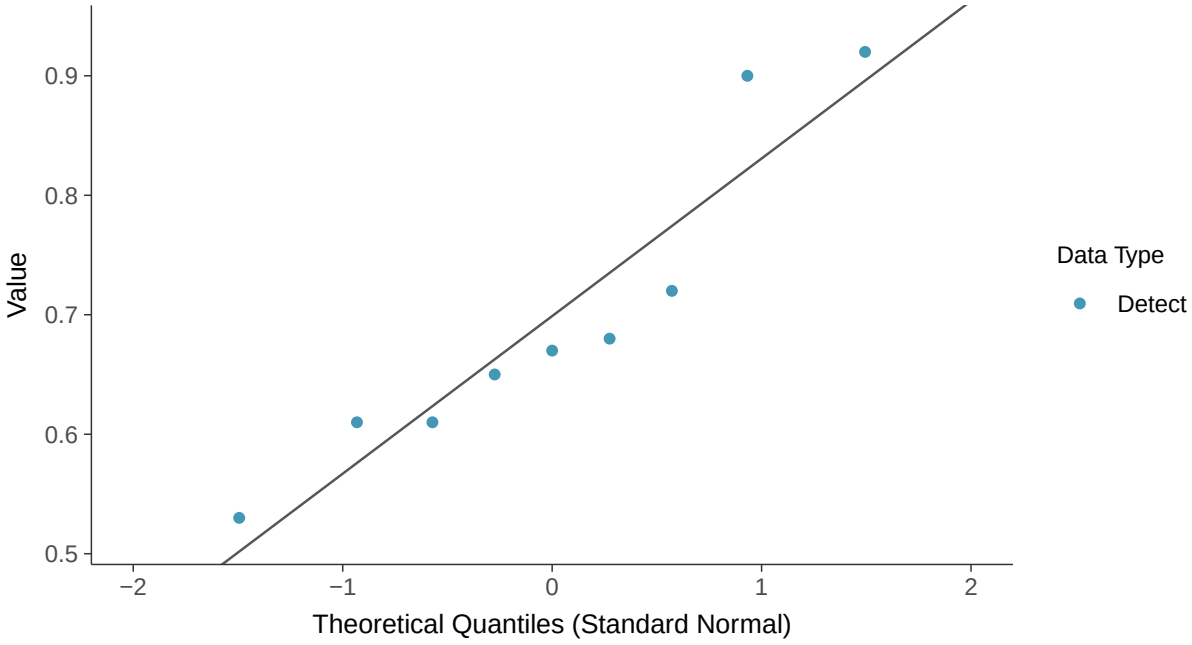
Boxplot by Season

Fluoride (App IV), MW-36 (mg/L)



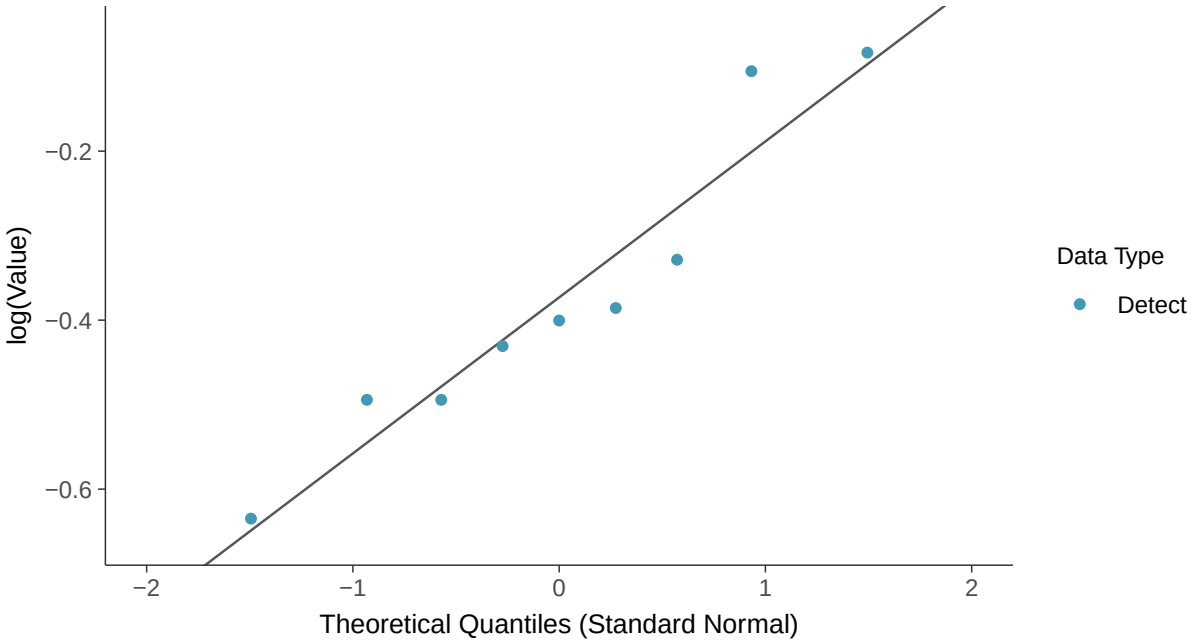
Normal Q-Q plot

Fluoride (App IV), MW-36 (mg/L)



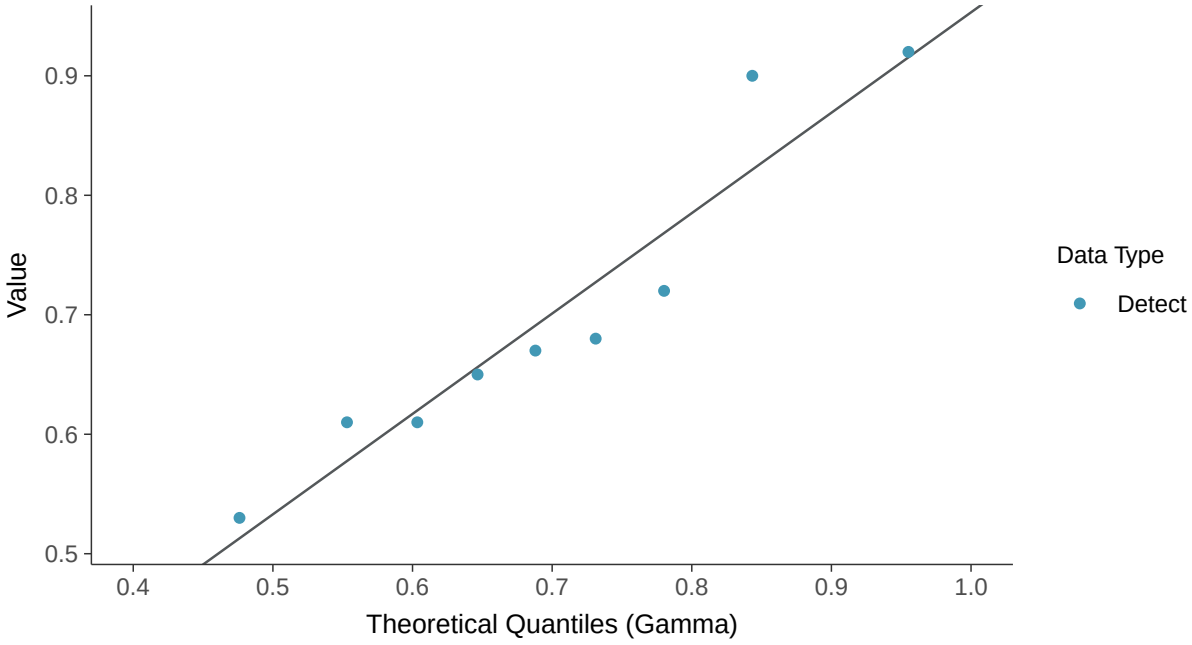
Lognormal Q-Q plot

Fluoride (App IV), MW-36 (mg/L)



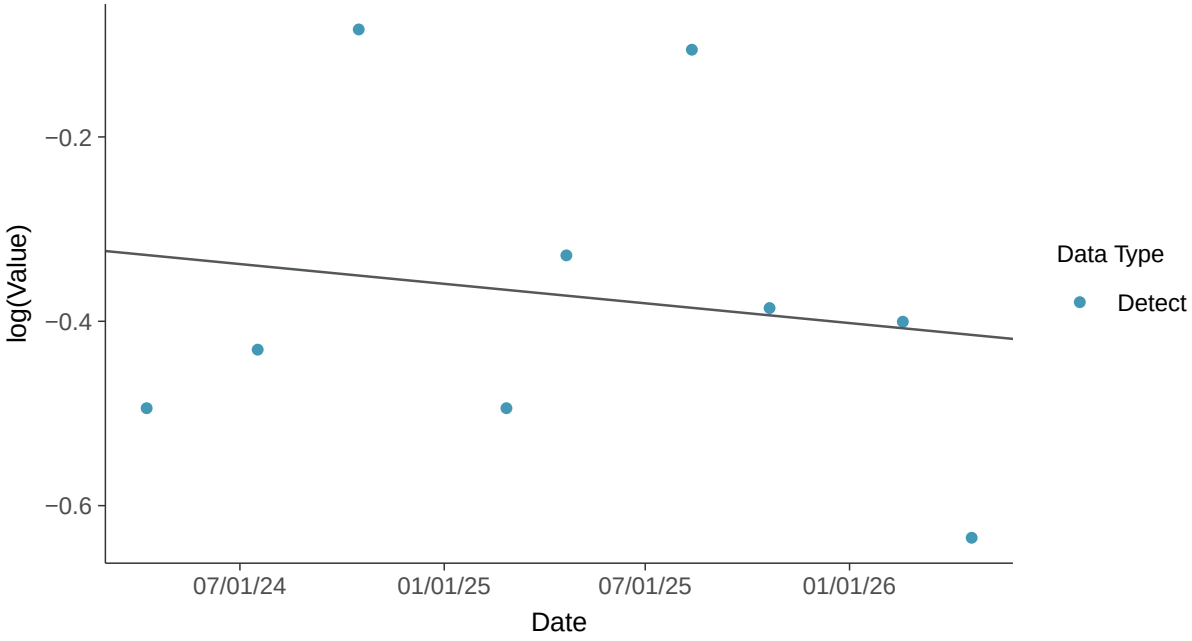
Gamma Q-Q plot

Fluoride (App IV), MW-36 (mg/L)



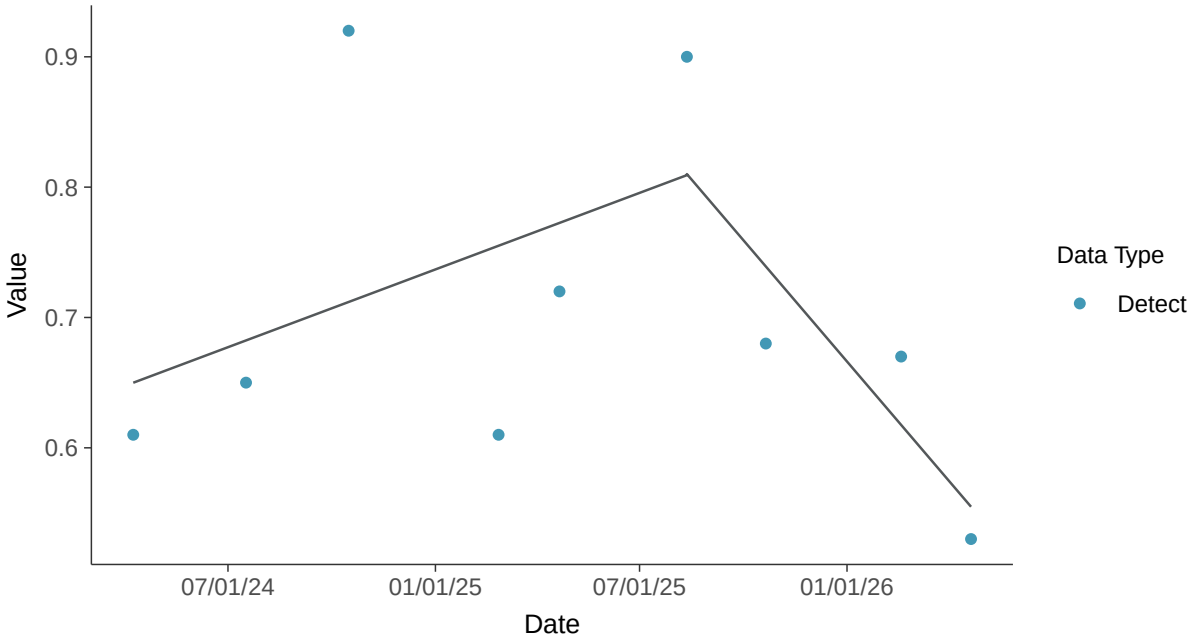
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-36 (mg/L)



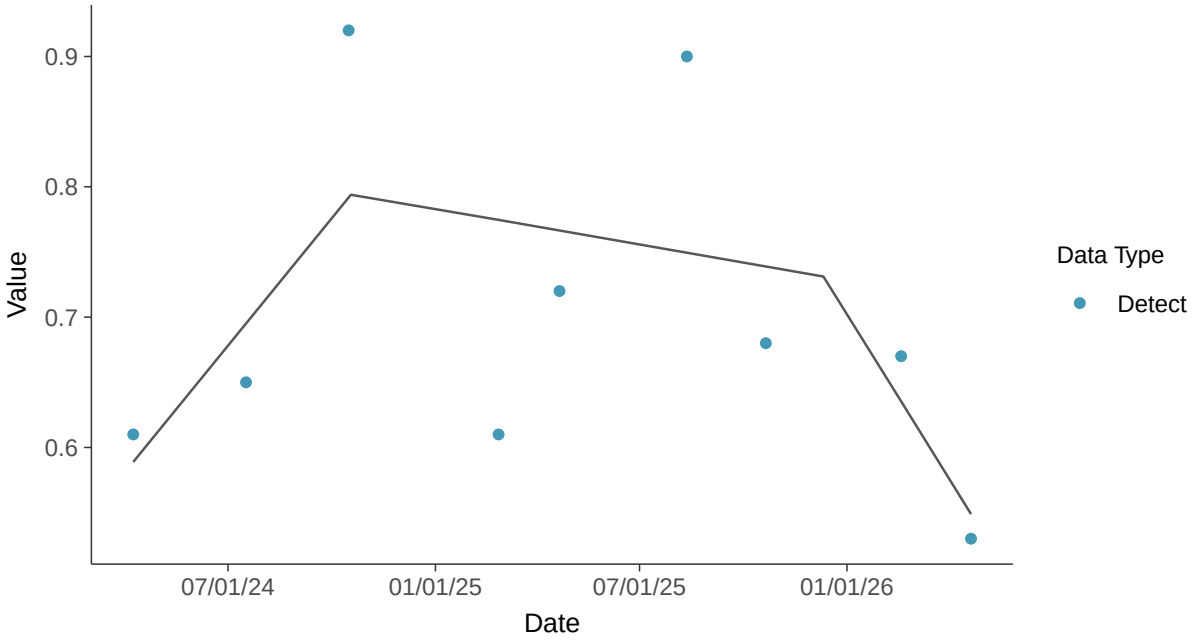
Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-36 (mg/L)

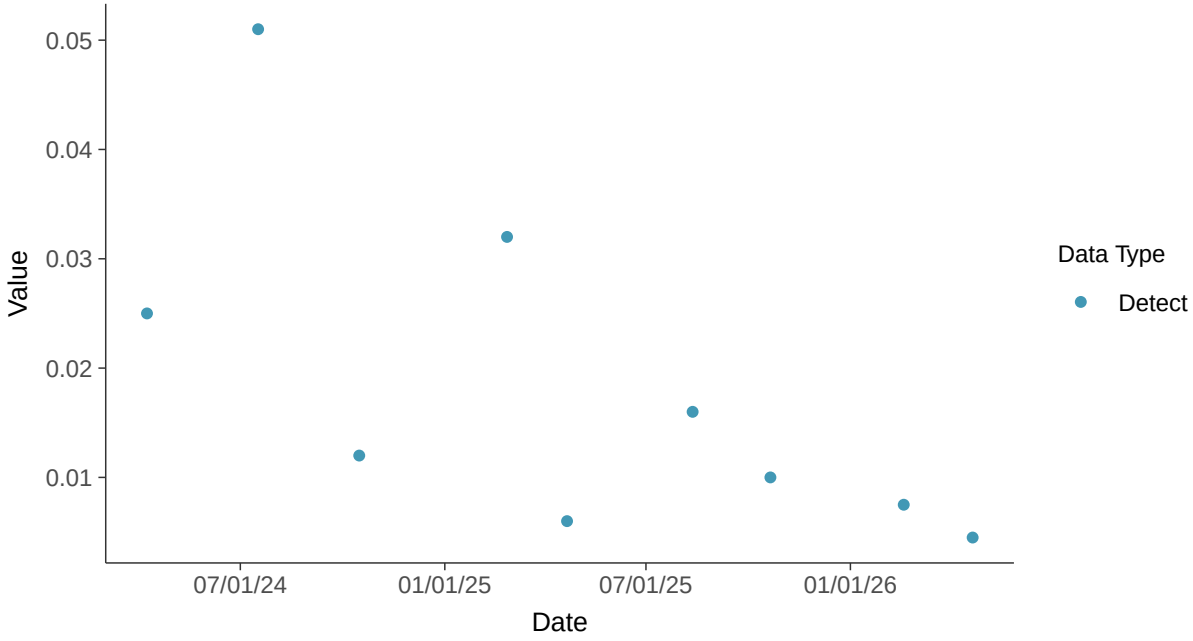


Appendix IV: Lead, MW-36

ID: 46_1_4_115

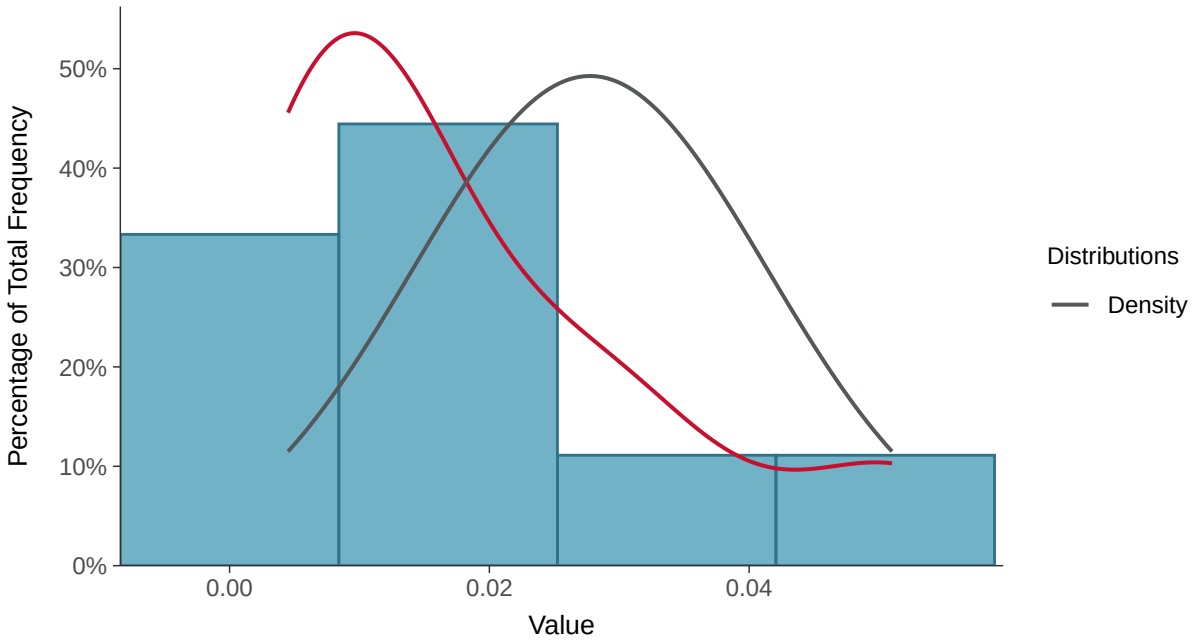
Scatter Plot

Lead, MW-36 (mg/L)



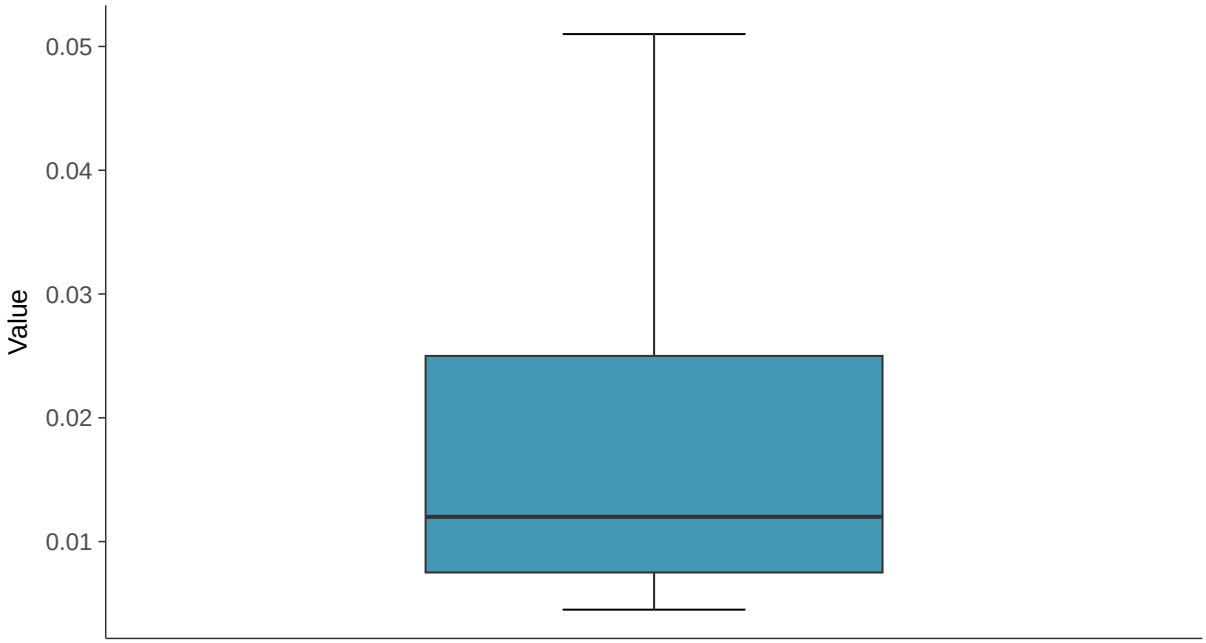
Histogram

Lead, MW-36 (mg/L)



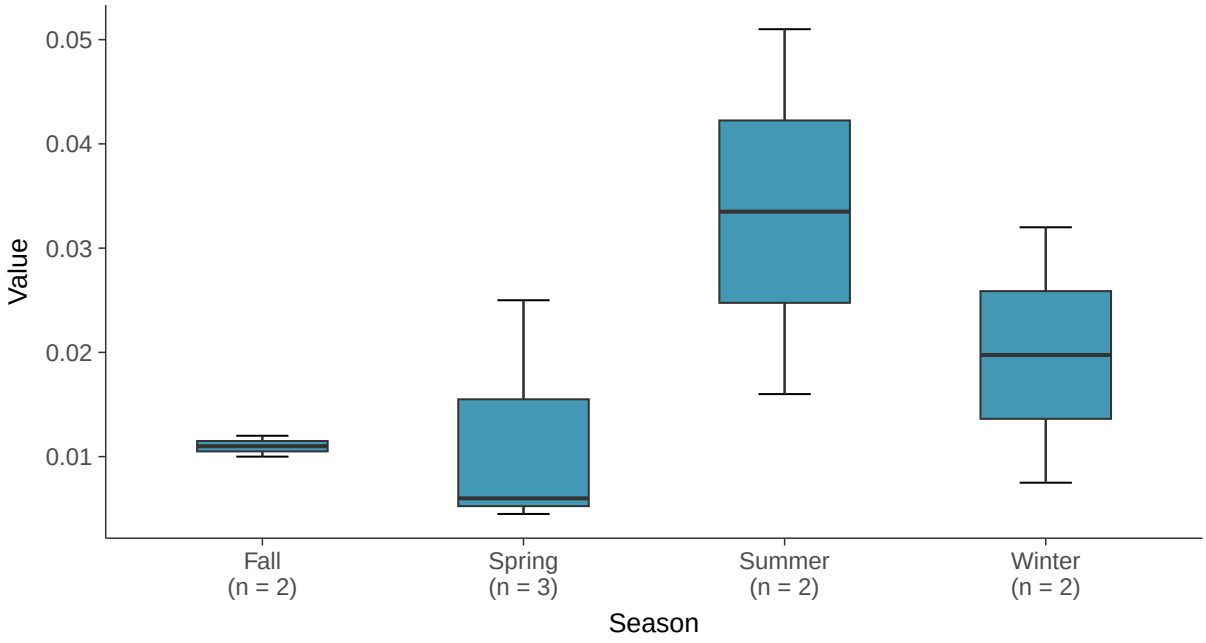
Boxplot

Lead, MW-36 (mg/L)



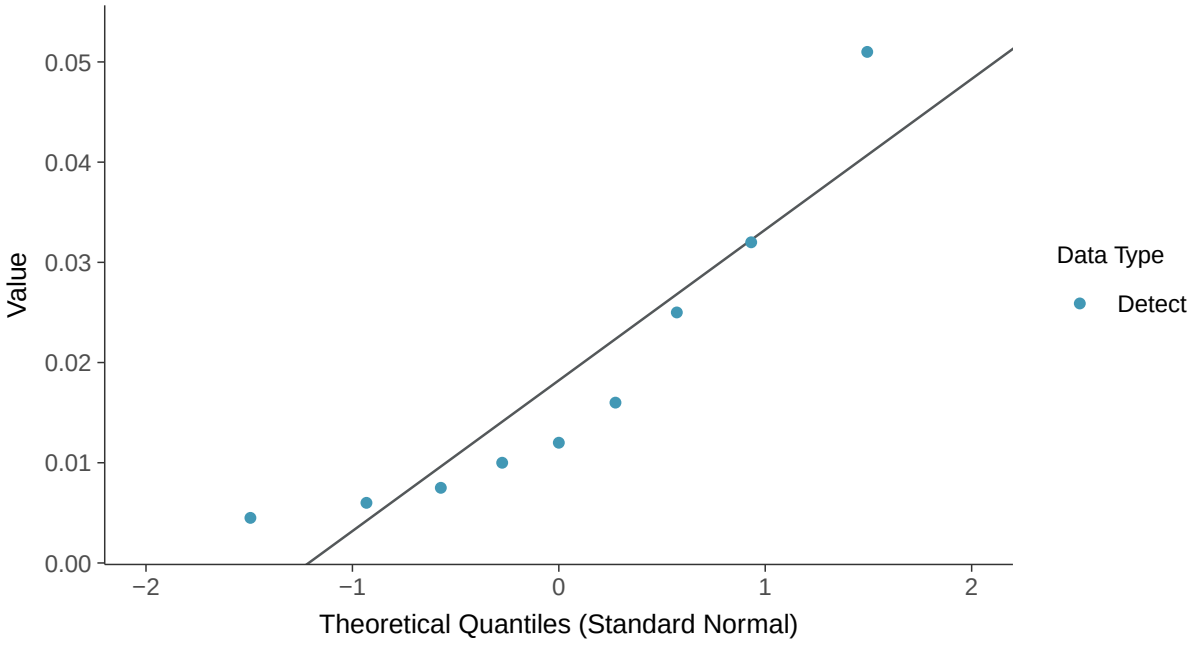
Boxplot by Season

Lead, MW-36 (mg/L)



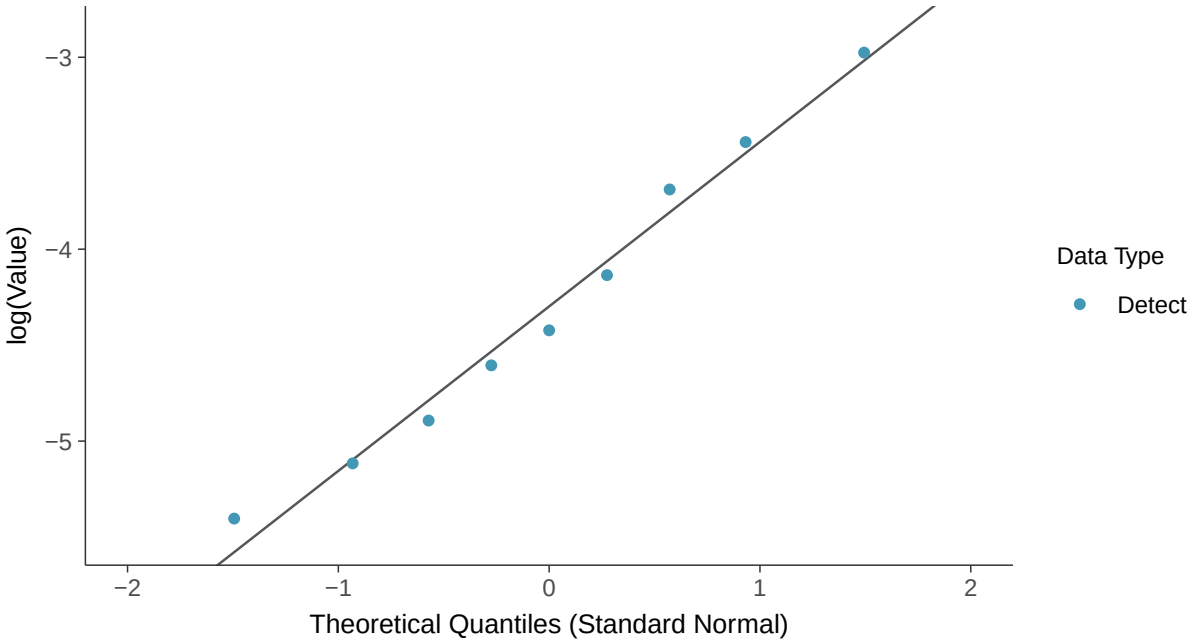
Normal Q-Q plot

Lead, MW-36 (mg/L)



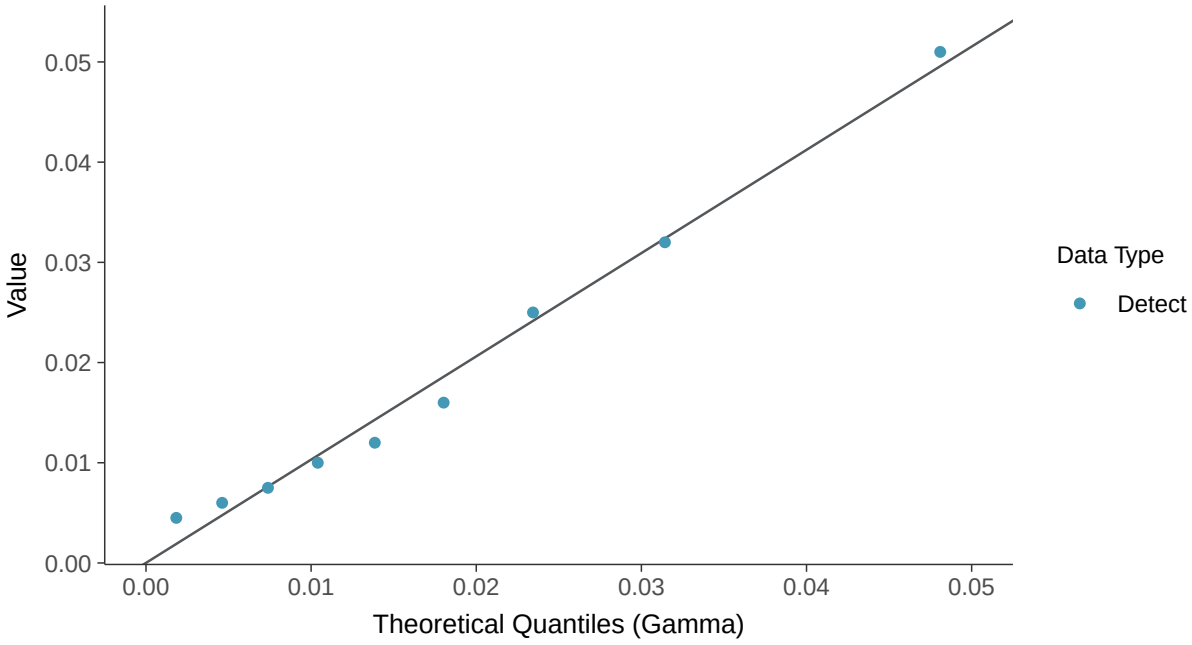
Lognormal Q-Q plot

Lead, MW-36 (mg/L)



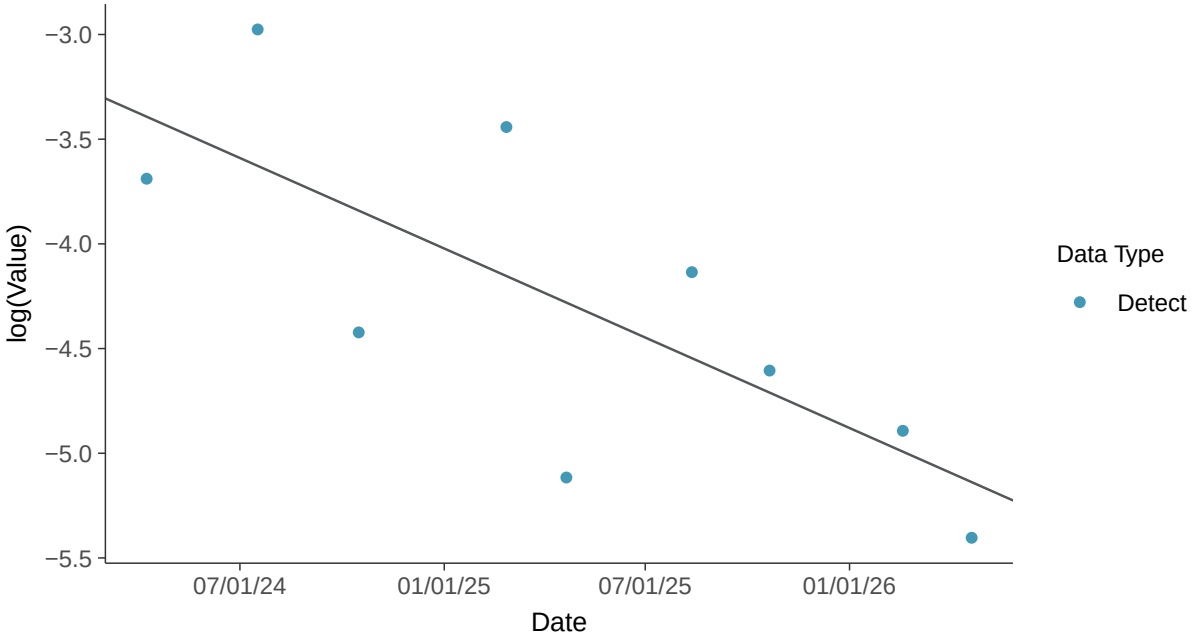
Gamma Q-Q plot

Lead, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Lead, MW-36 (mg/L)

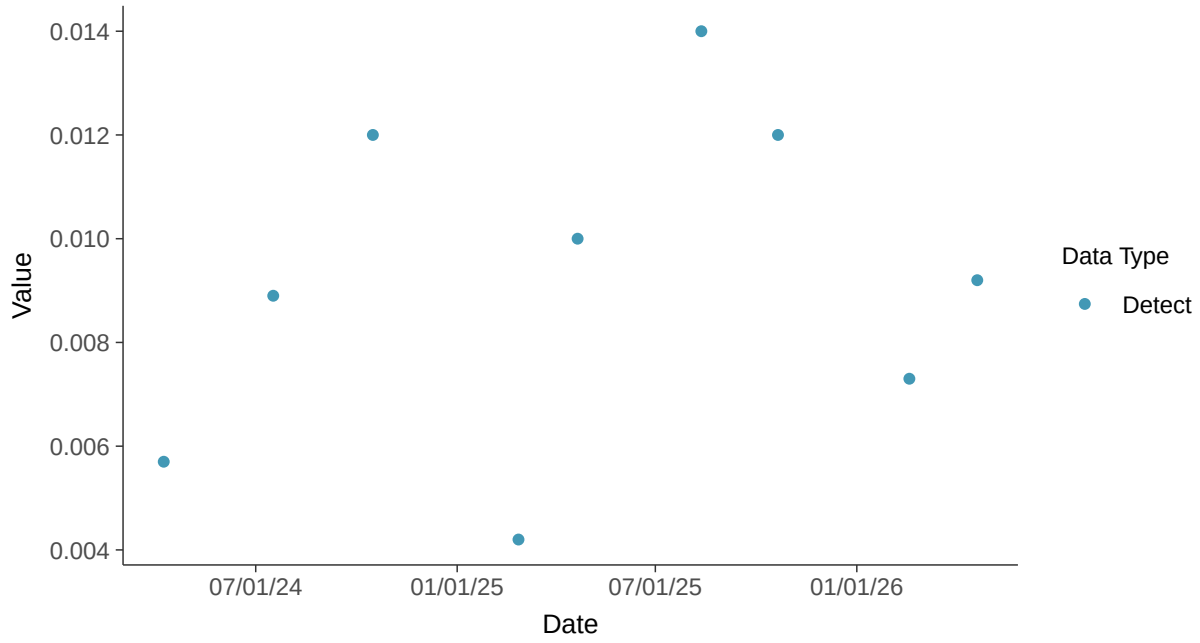


Appendix IV: Lithium, MW-36

ID: 46_1_4_116

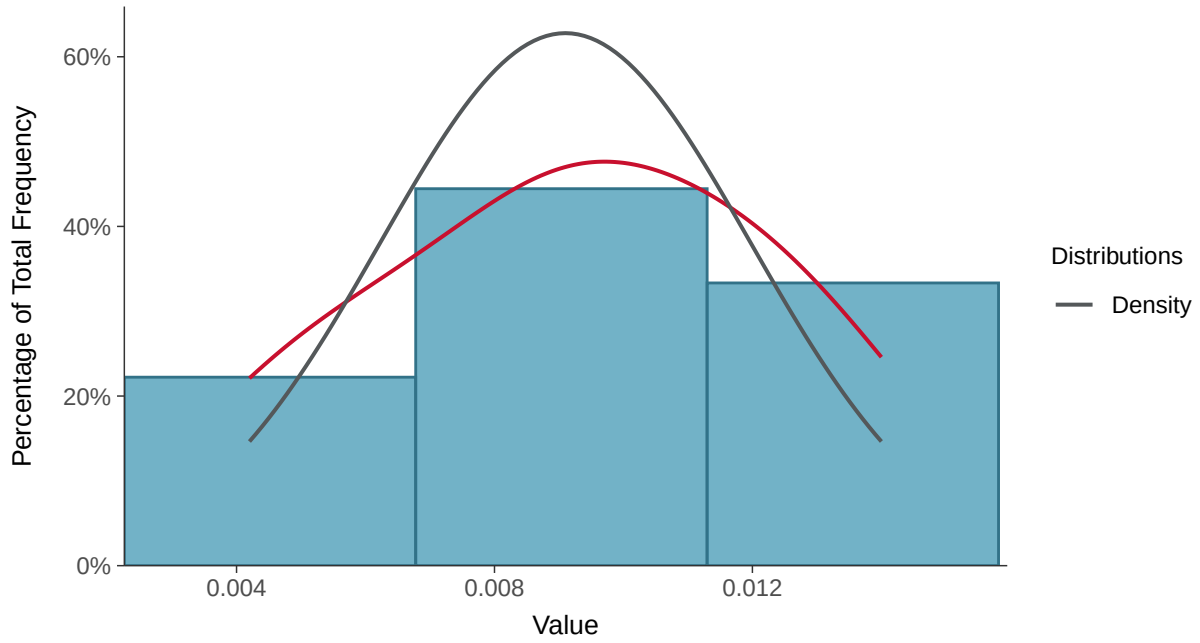
Scatter Plot

Lithium, MW-36 (mg/L)



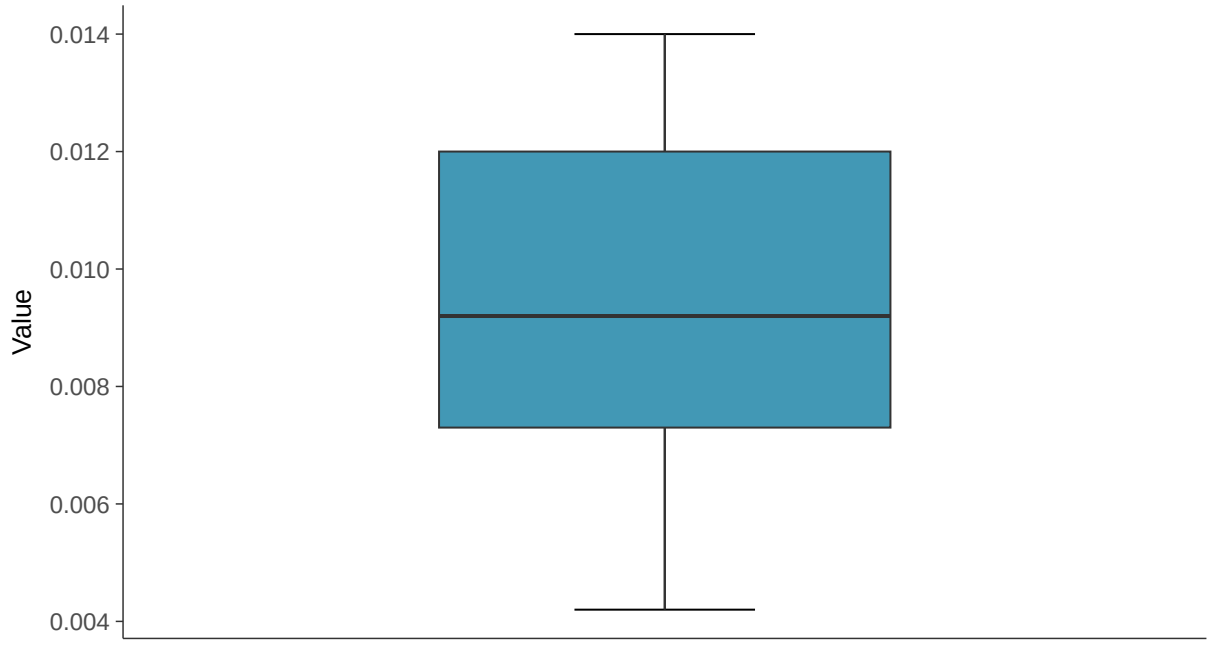
Histogram

Lithium, MW-36 (mg/L)



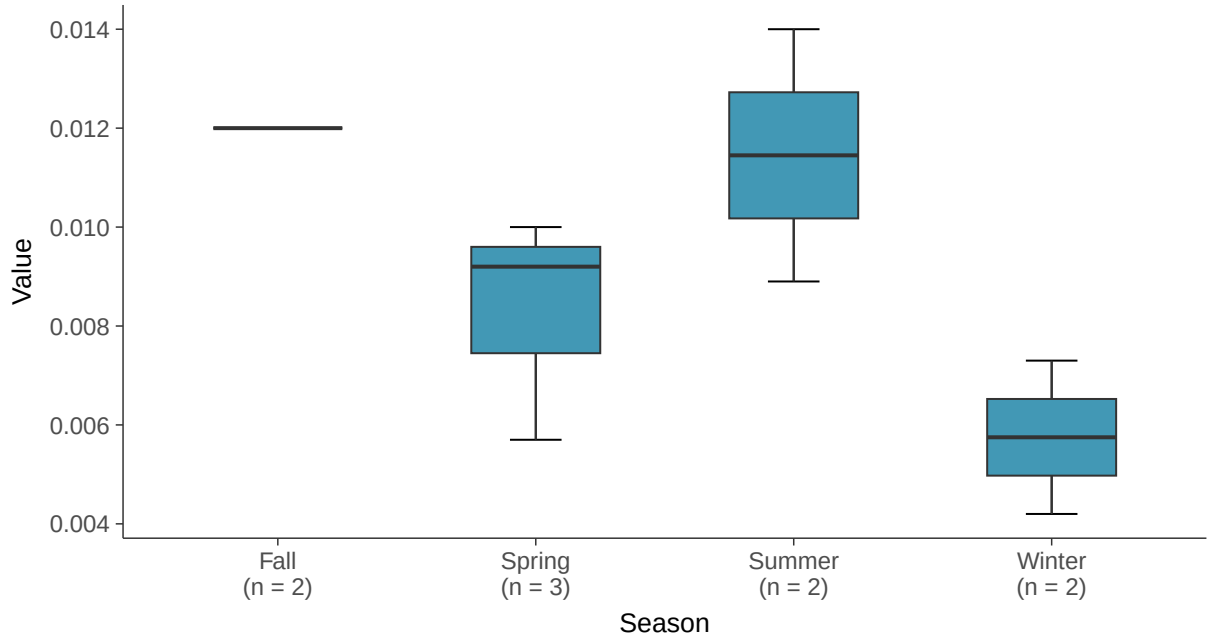
Boxplot

Lithium, MW-36 (mg/L)



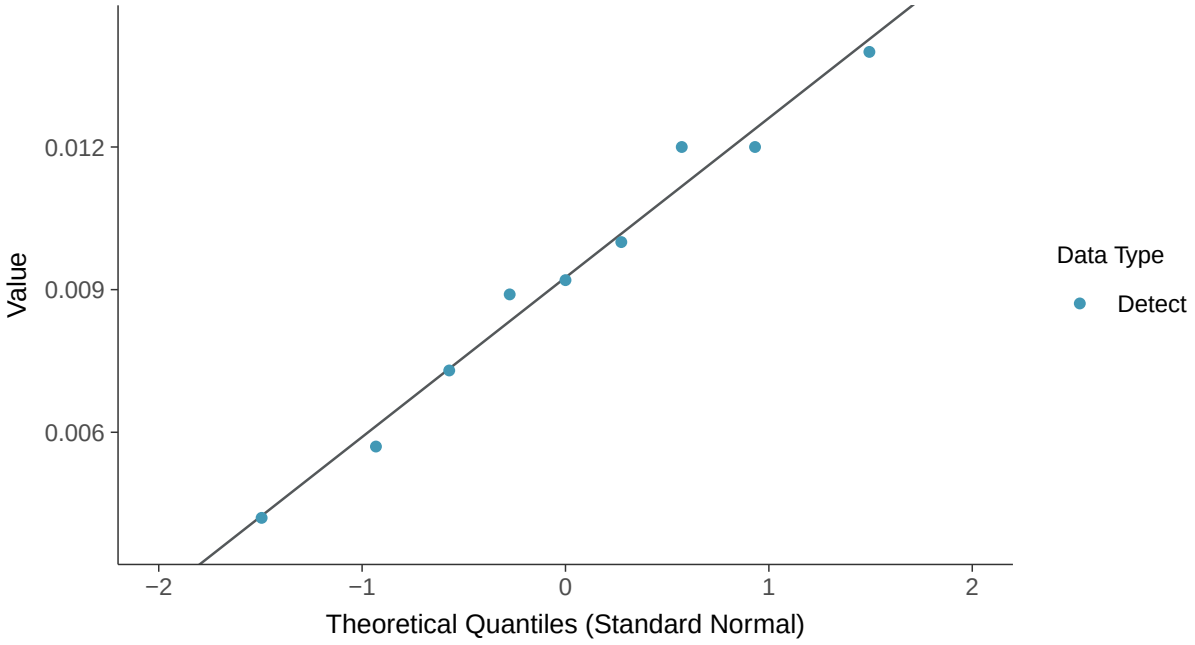
Boxplot by Season

Lithium, MW-36 (mg/L)



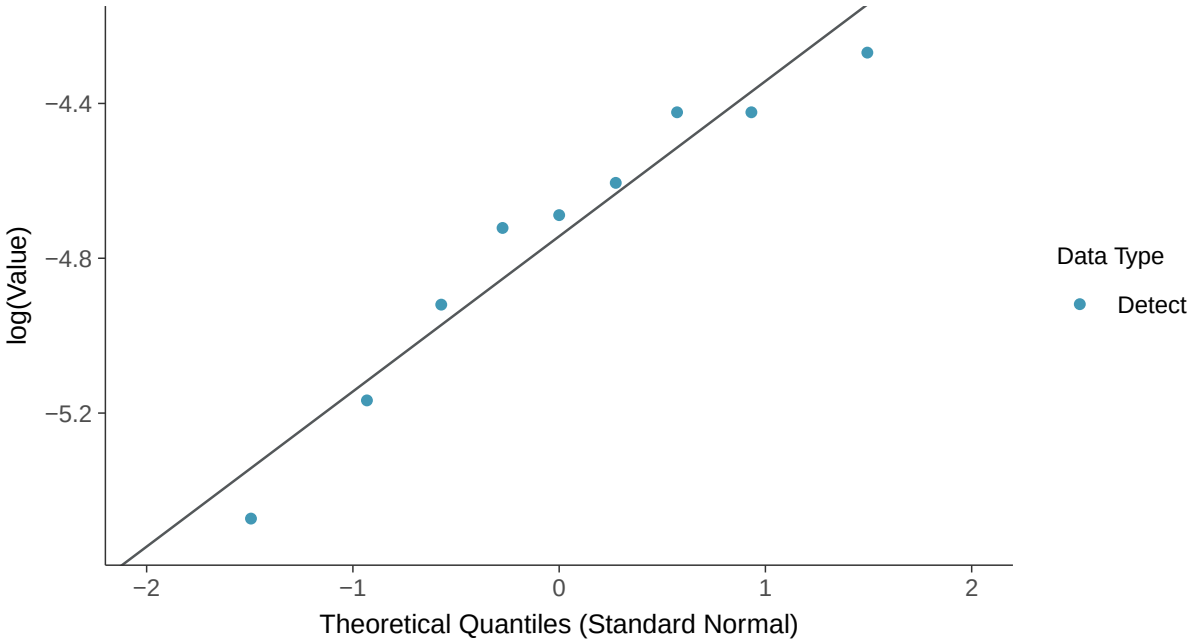
Normal Q-Q plot

Lithium, MW-36 (mg/L)



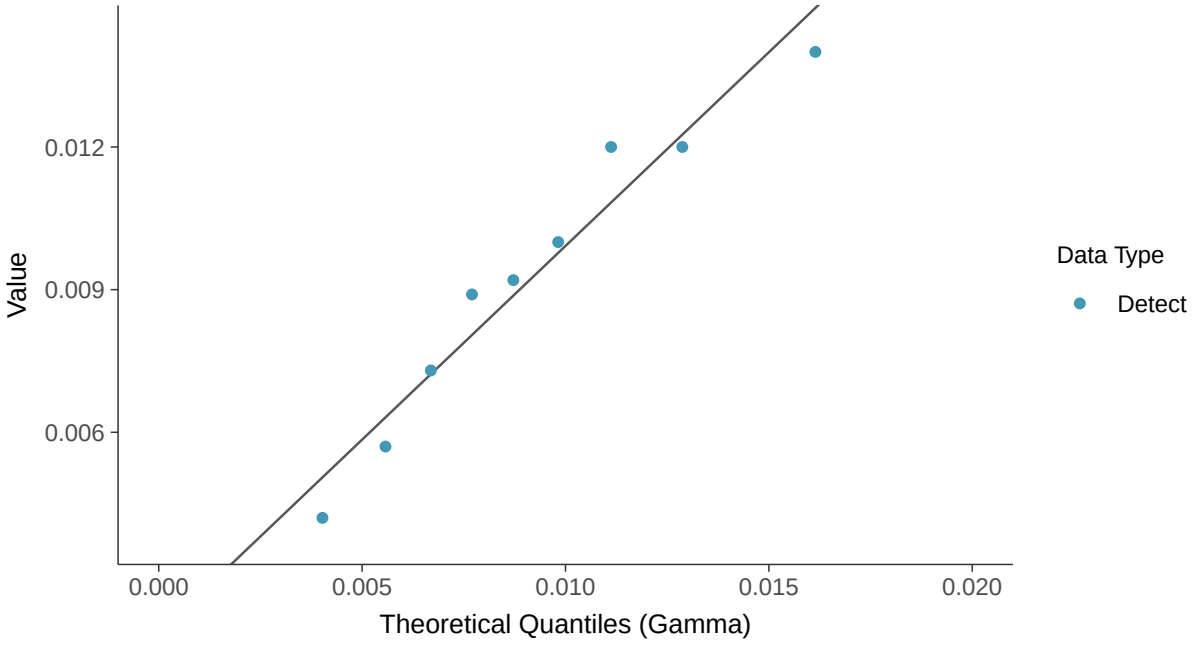
Lognormal Q-Q plot

Lithium, MW-36 (mg/L)



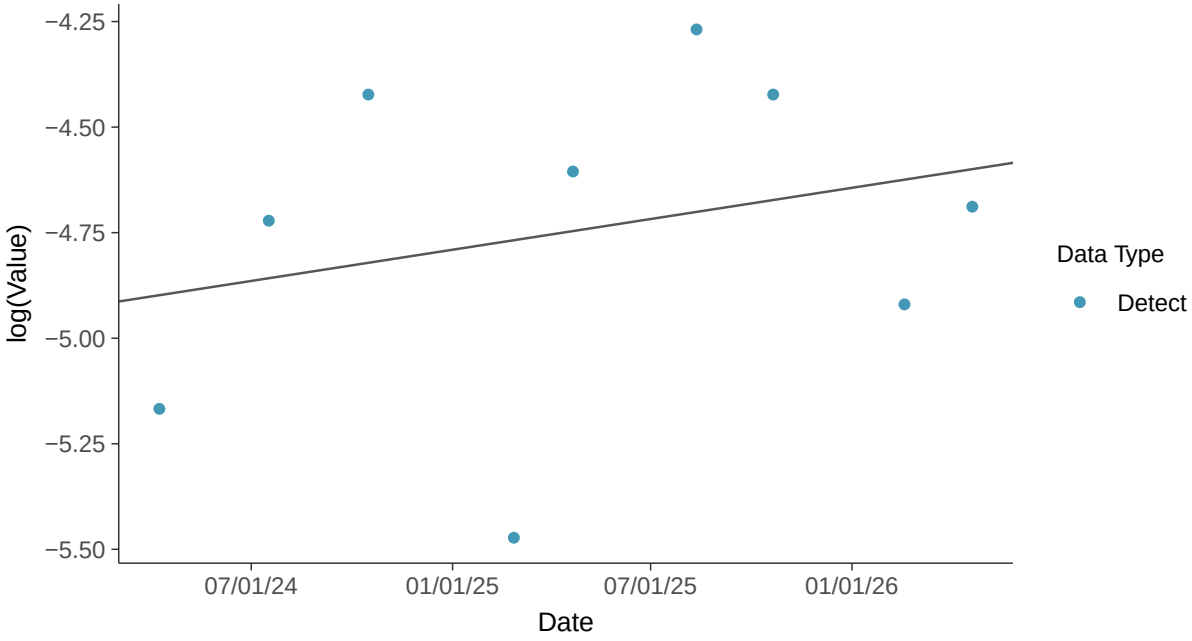
Gamma Q-Q plot

Lithium, MW-36 (mg/L)



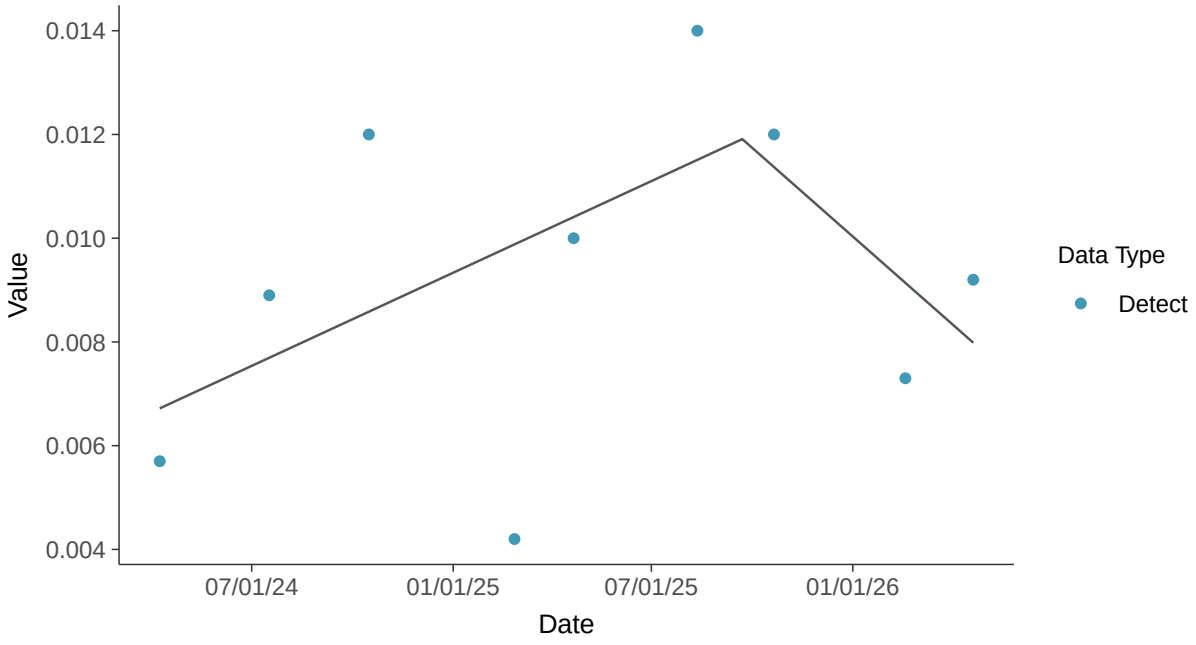
Trend Regression: Lognormal MLE

Lithium, MW-36 (mg/L)



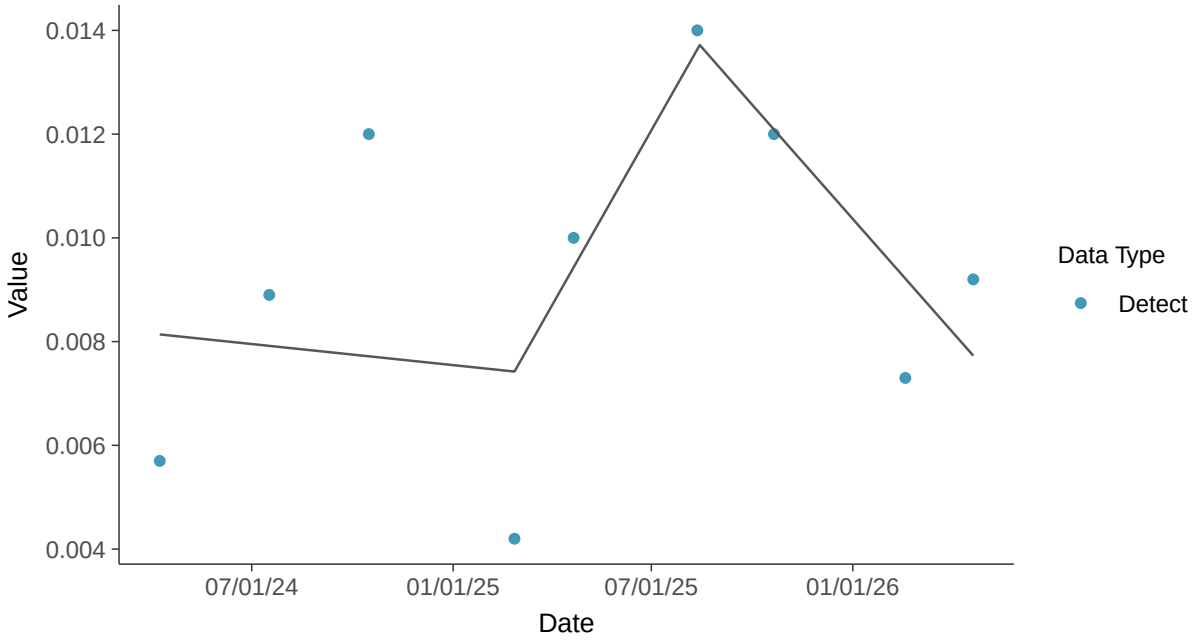
Trend Regression: Piecewise Linear-Linear

Lithium, MW-36 (mg/L)



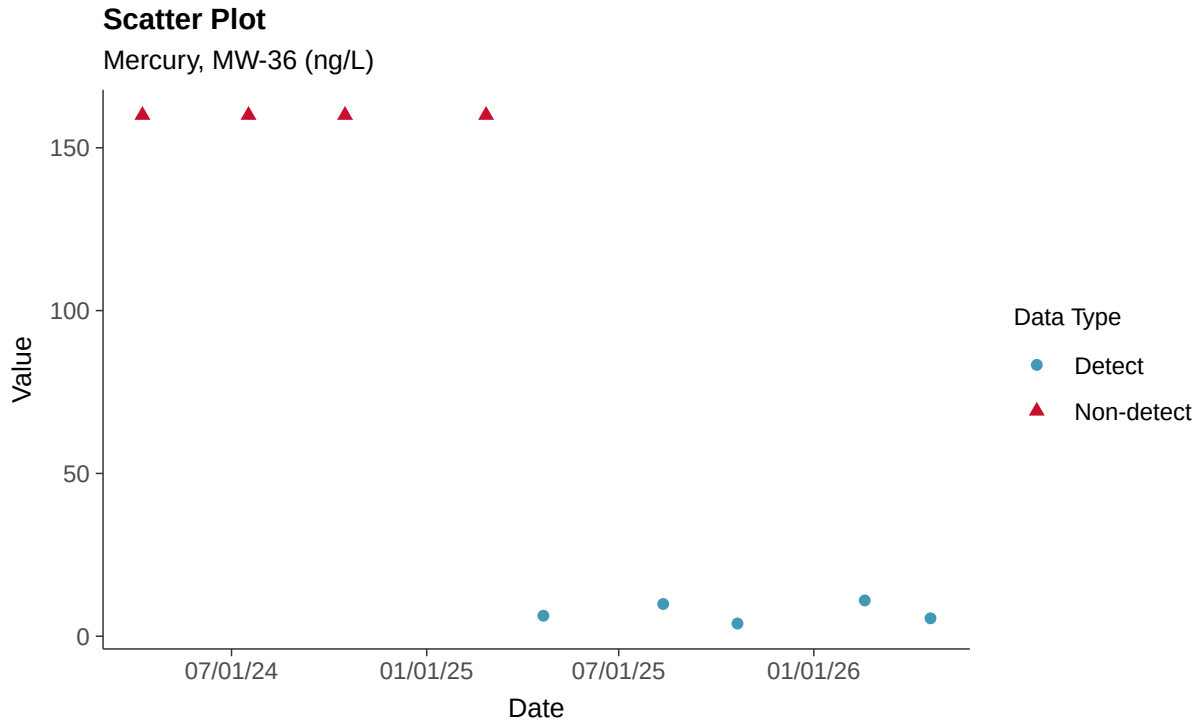
Trend Regression: Piecewise Linear-Linear-Linear

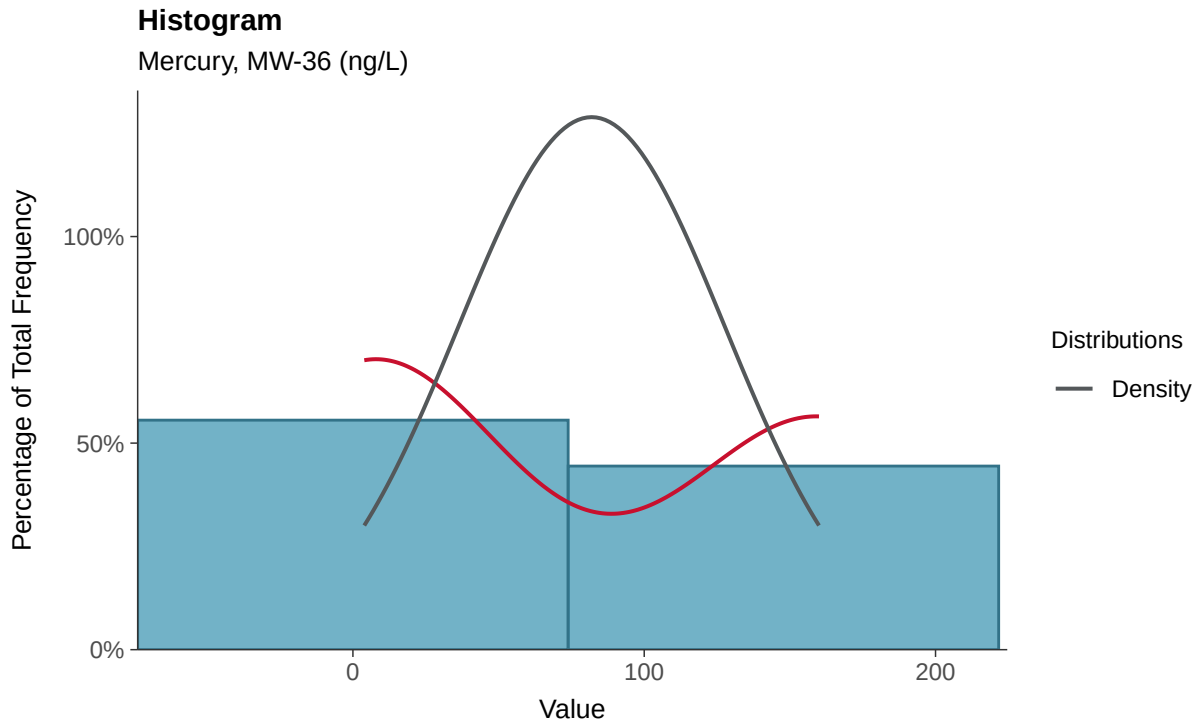
Lithium, MW-36 (mg/L)



Appendix IV: Mercury, MW-36

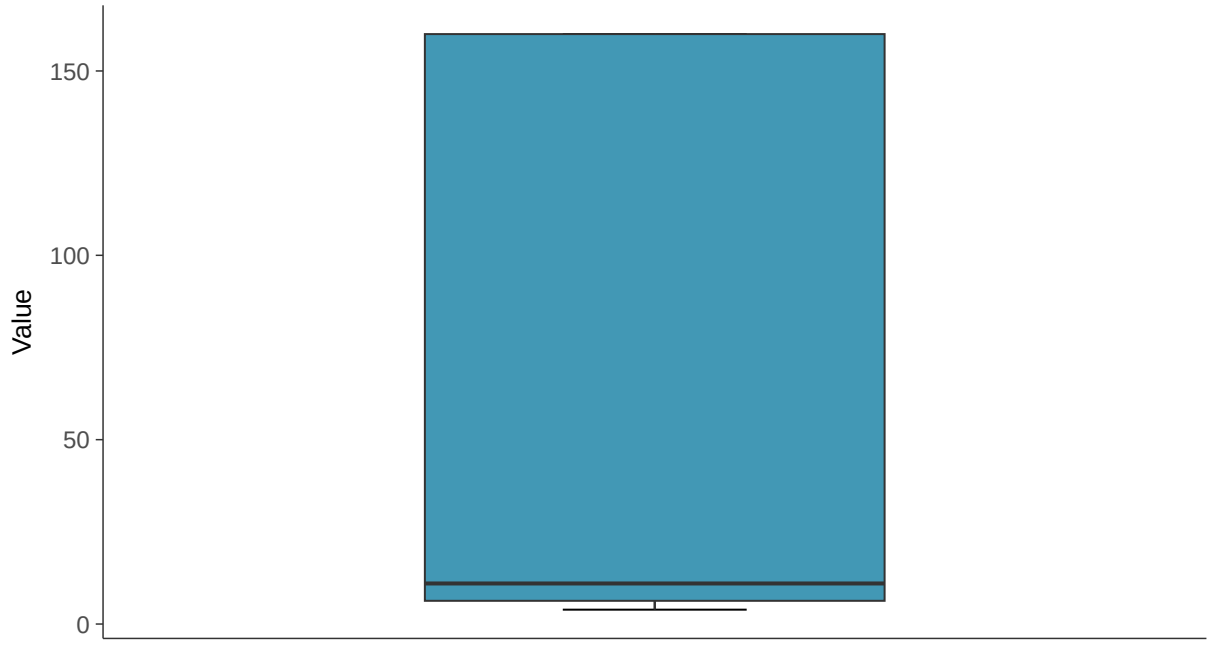
ID: 46_1_4_117





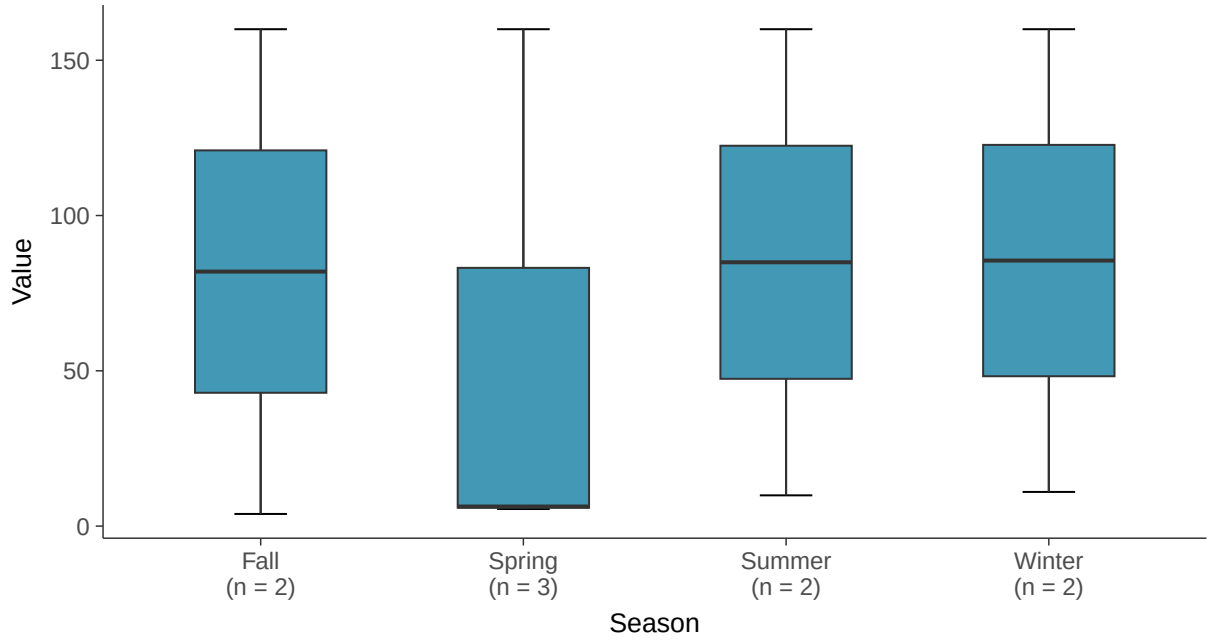
Boxplot

Mercury, MW-36 (ng/L)



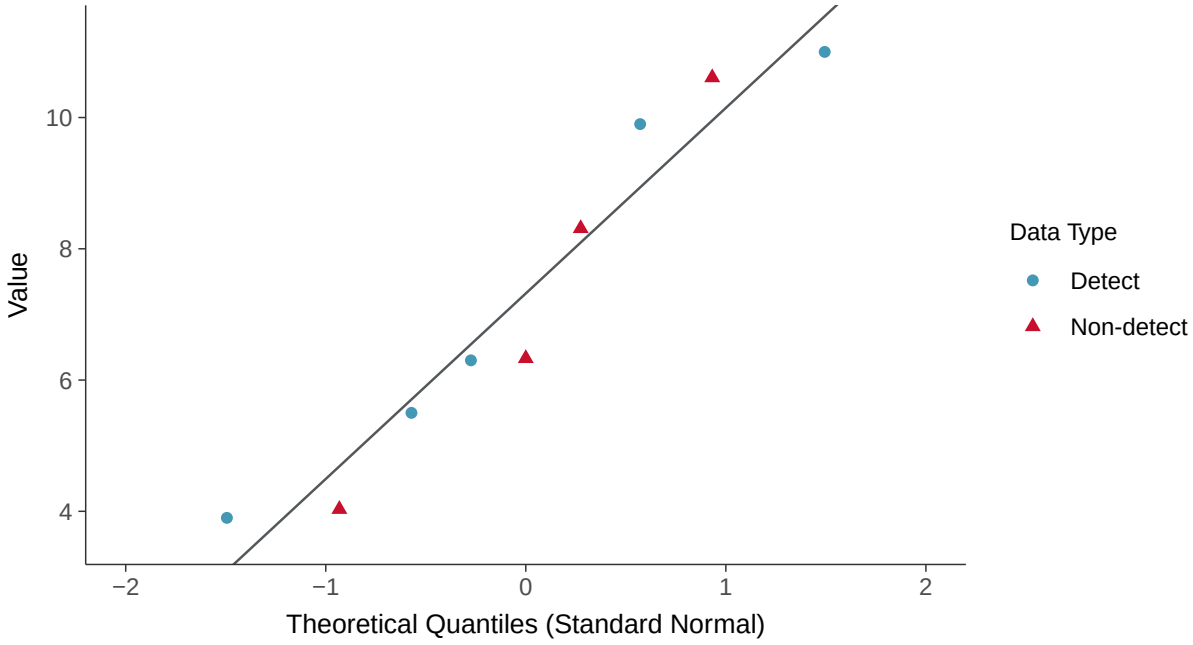
Boxplot by Season

Mercury, MW-36 (ng/L)



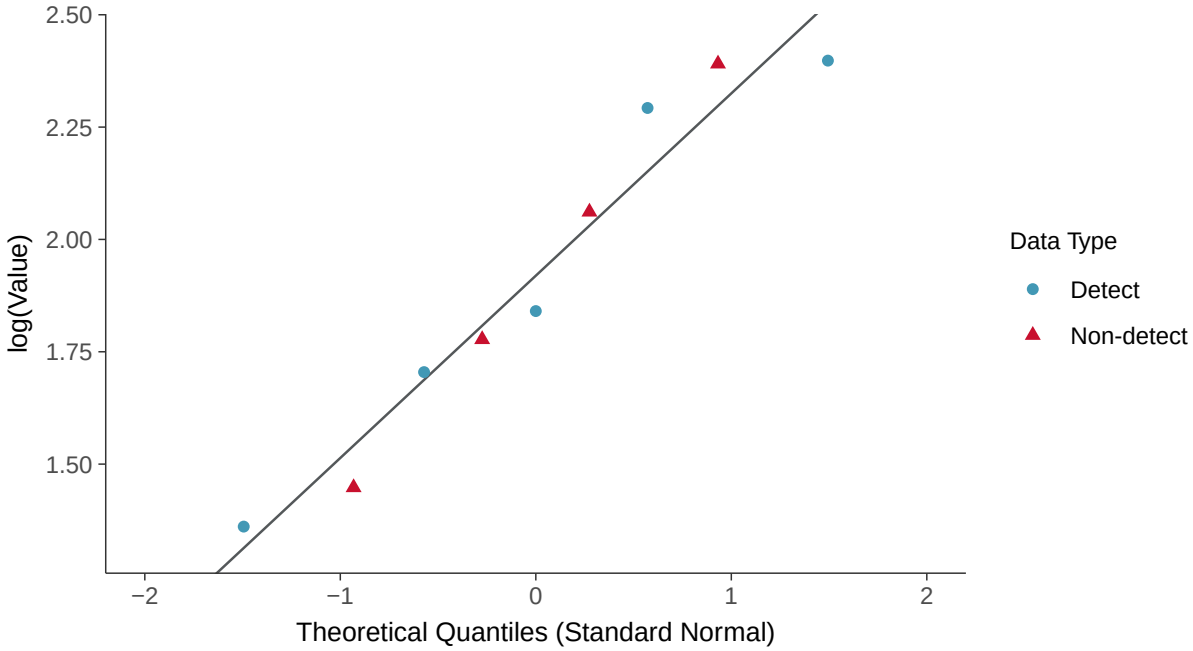
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-36 (ng/L)



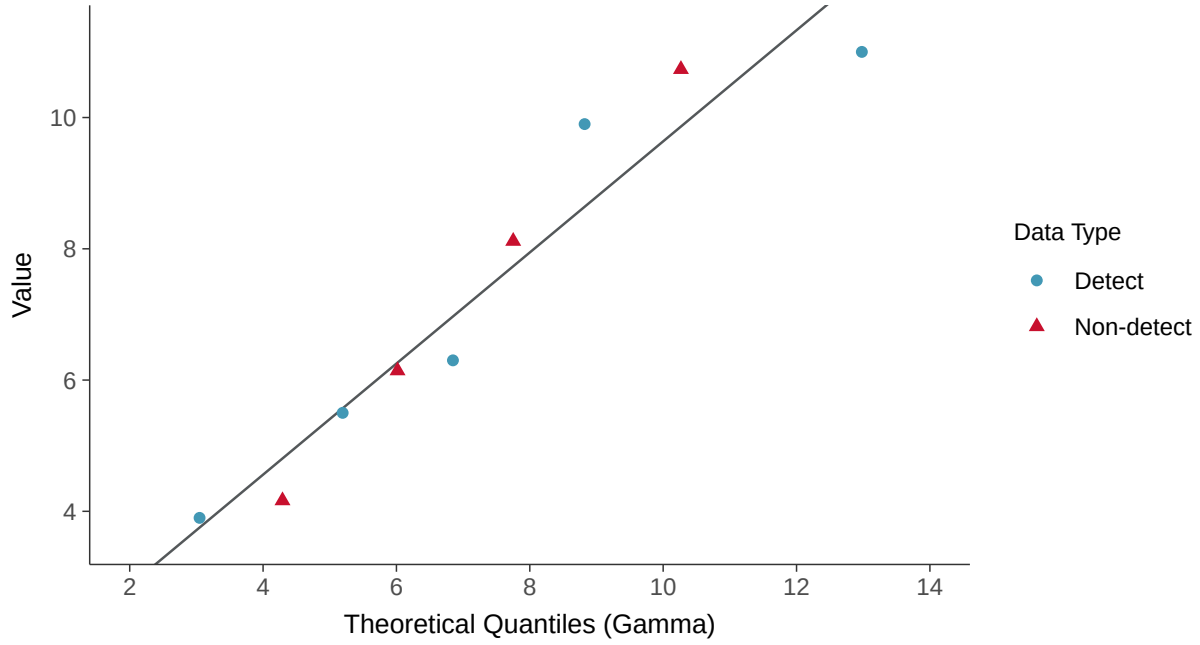
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-36 (ng/L)



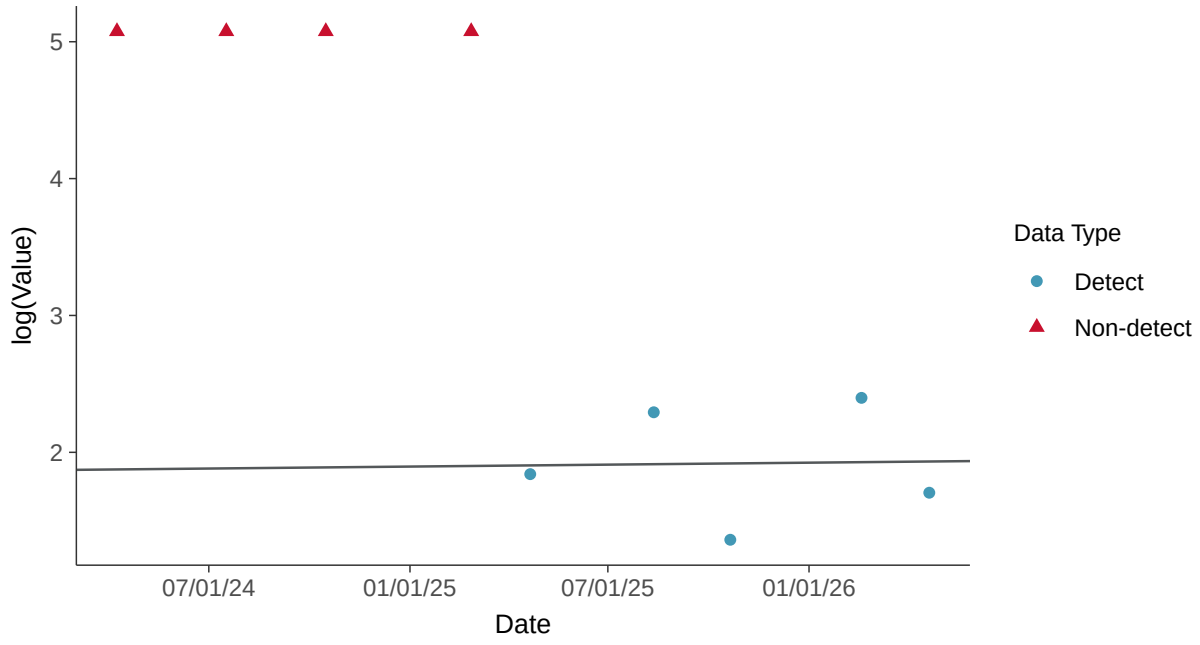
Gamma Q-Q plot using ROS Imputed Estimates

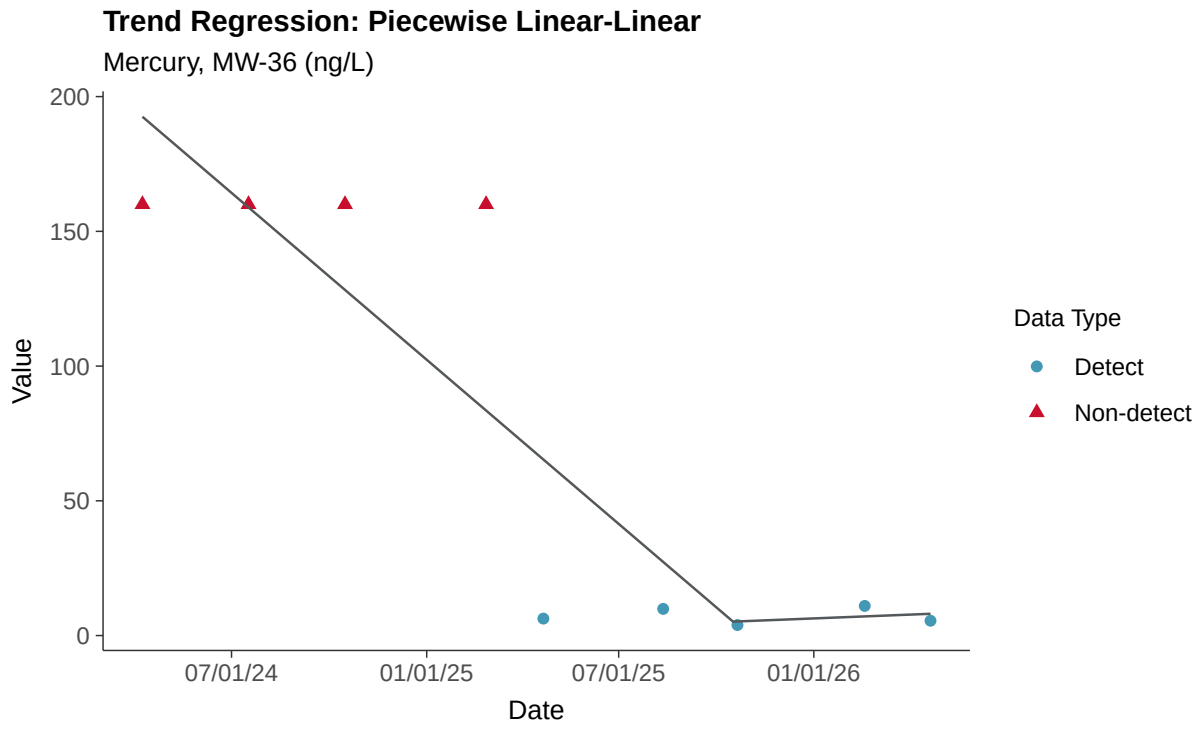
Mercury, MW-36 (ng/L)



Trend Regression: Lognormal MLE

Mercury, MW-36 (ng/L)



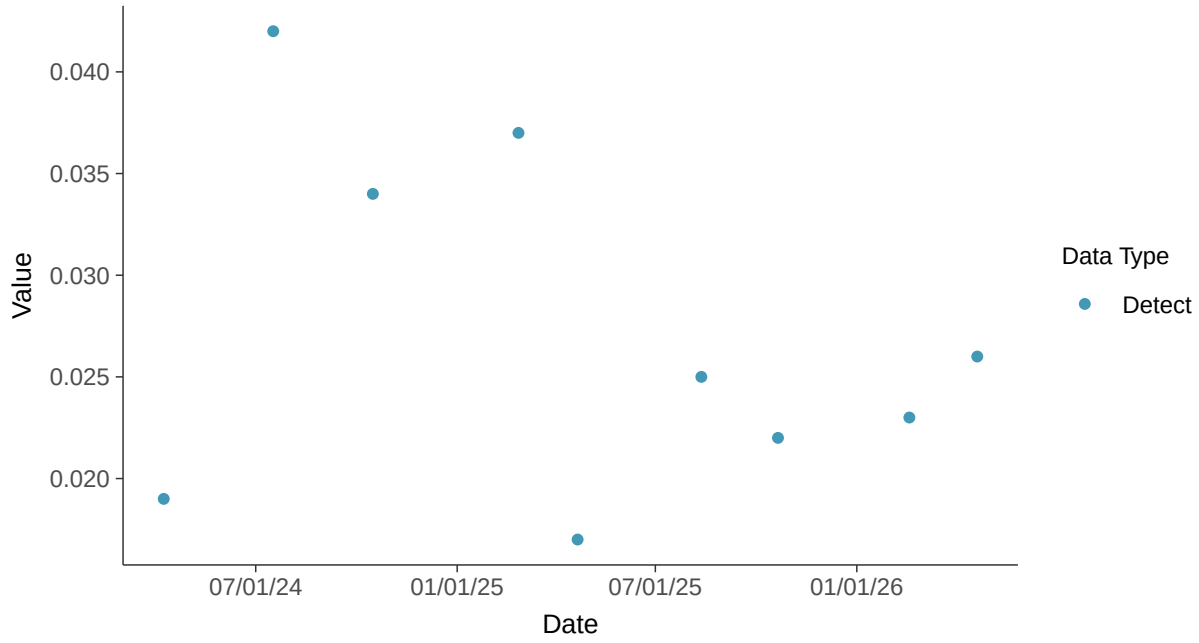

Trend Regression: Piecewise Linear-Linear
Mercury, MW-36 (ng/L)
200
150
100
50
0
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-36

ID: 46_1_4_118

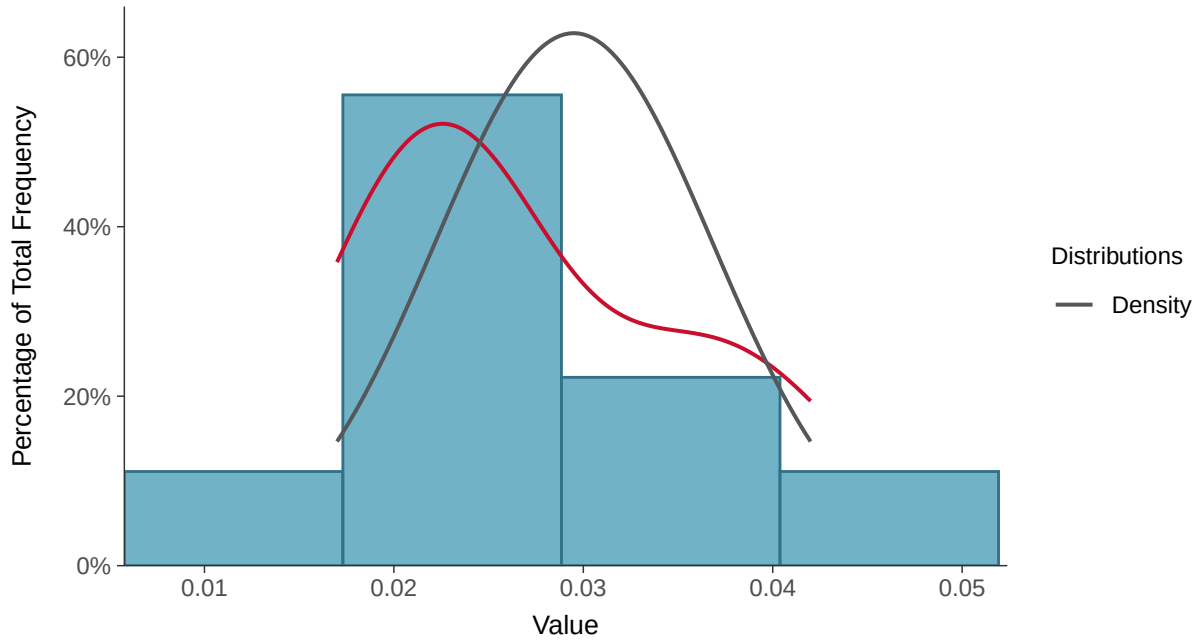
Scatter Plot

Molybdenum, MW-36 (mg/L)



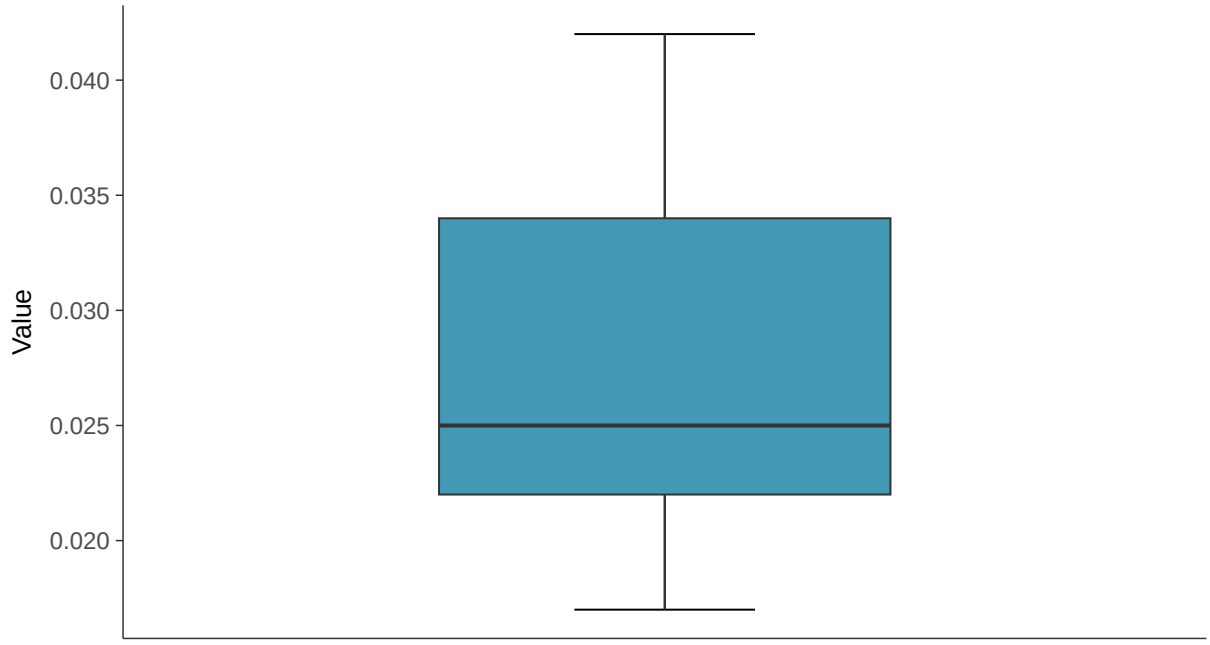
Histogram

Molybdenum, MW-36 (mg/L)



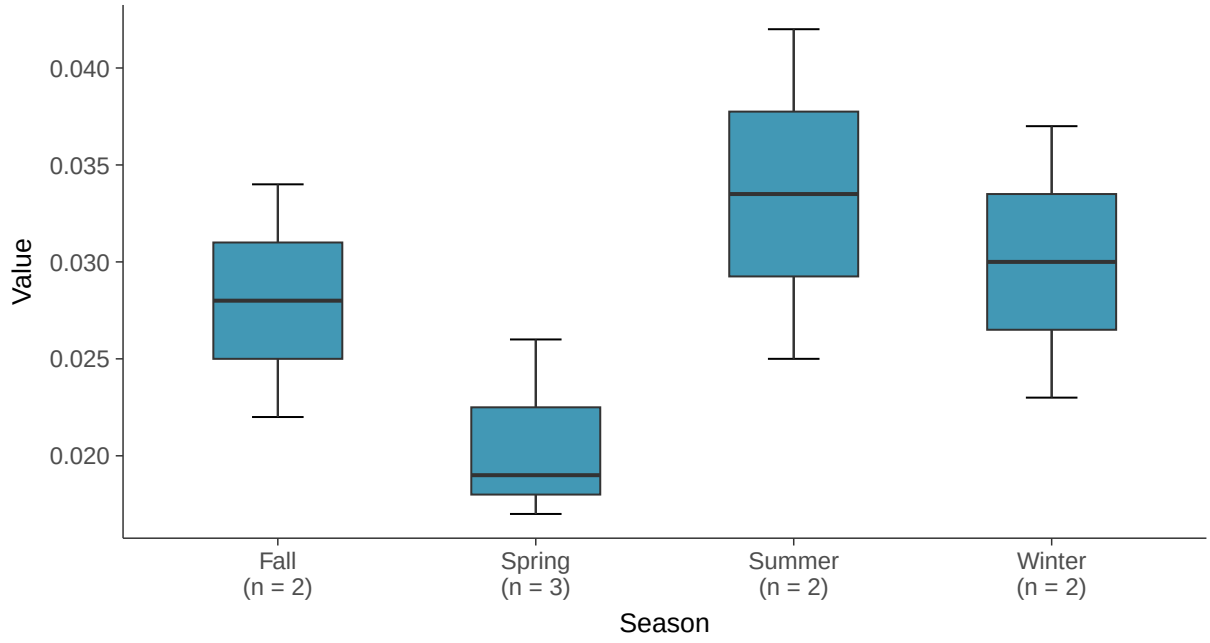
Boxplot

Molybdenum, MW-36 (mg/L)



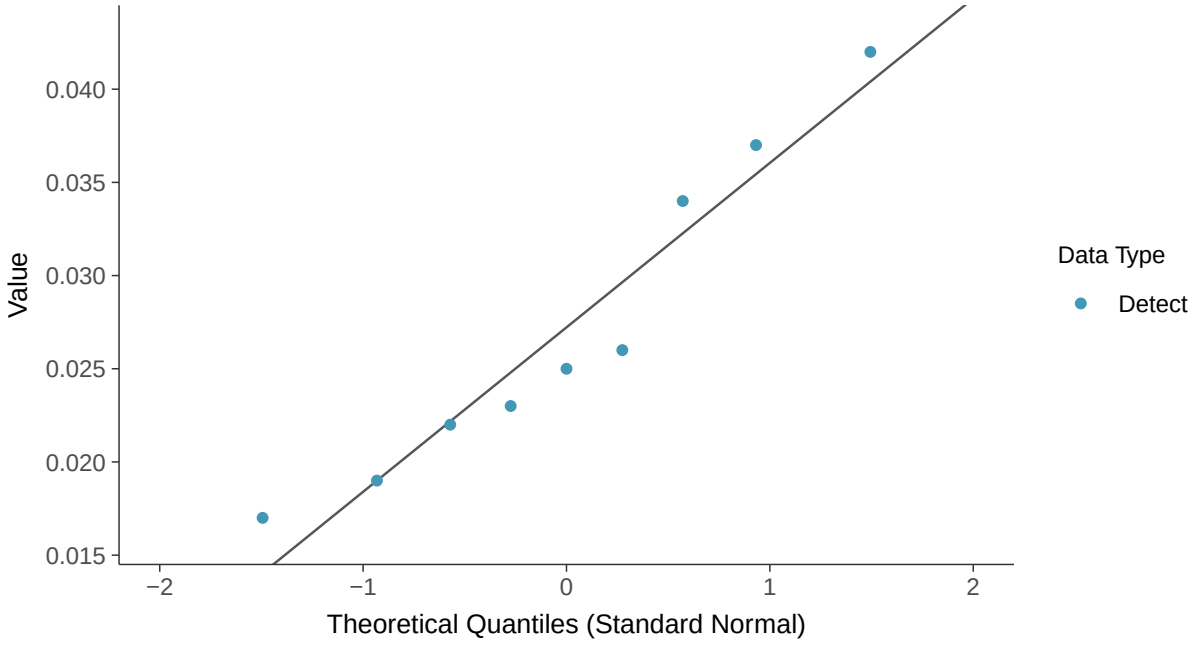
Boxplot by Season

Molybdenum, MW-36 (mg/L)



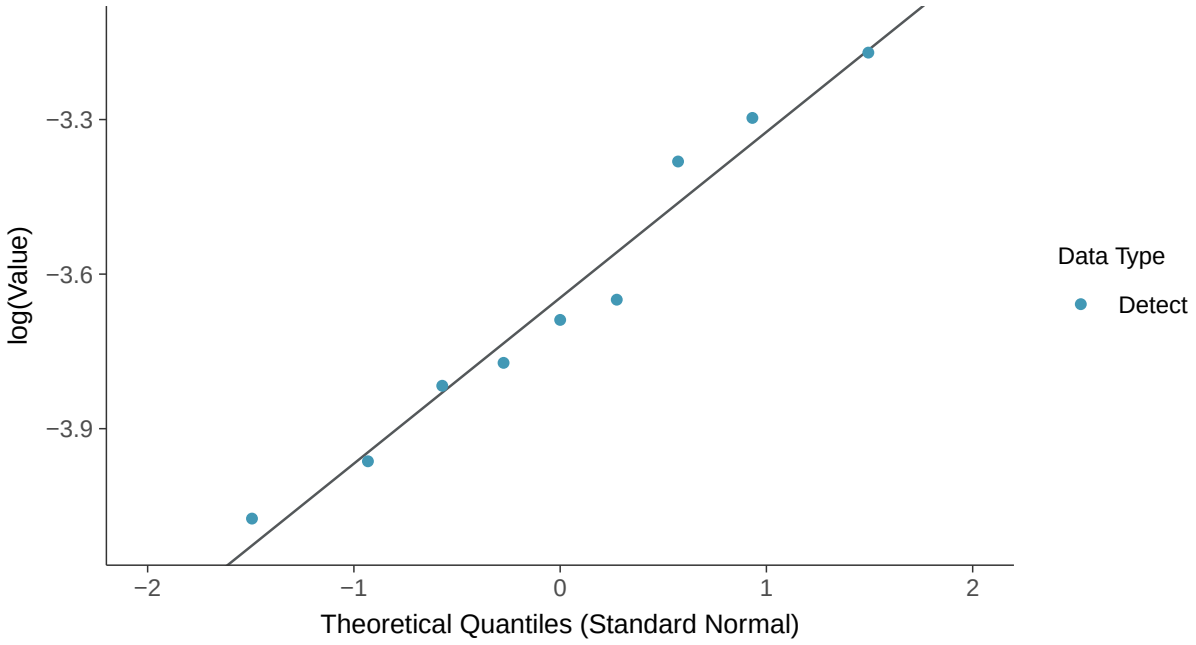
Normal Q-Q plot

Molybdenum, MW-36 (mg/L)



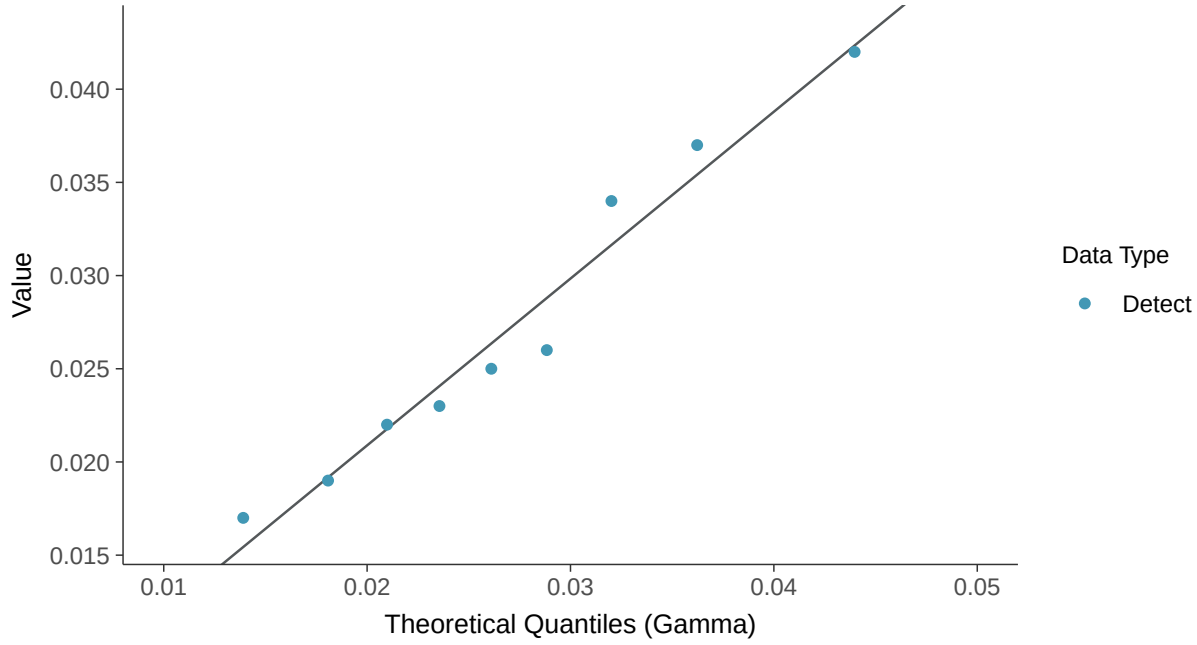
Lognormal Q-Q plot

Molybdenum, MW-36 (mg/L)



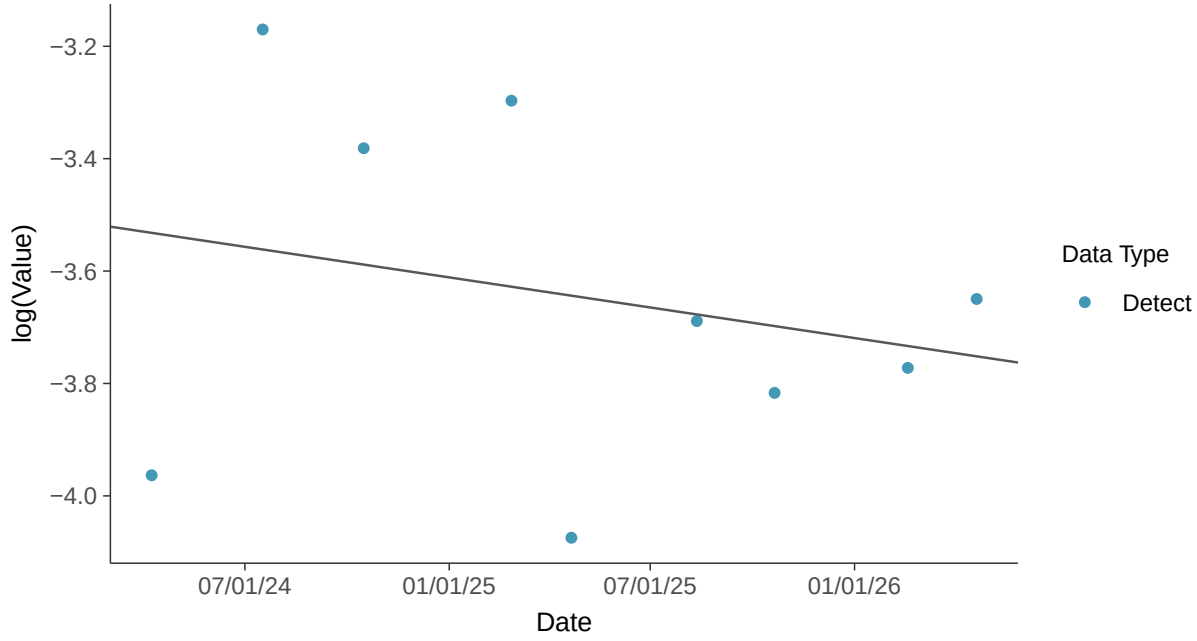
Gamma Q-Q plot

Molybdenum, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-36 (mg/L)

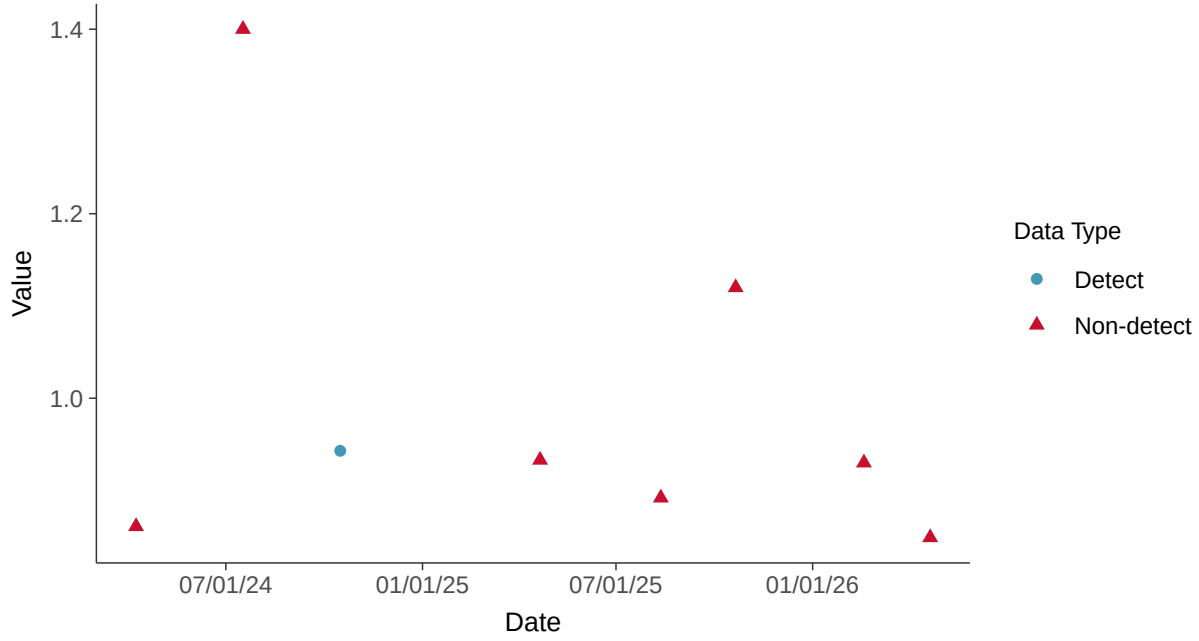


Appendix IV: Radium 226 and 228, MW-36

ID: 46_1_4_121

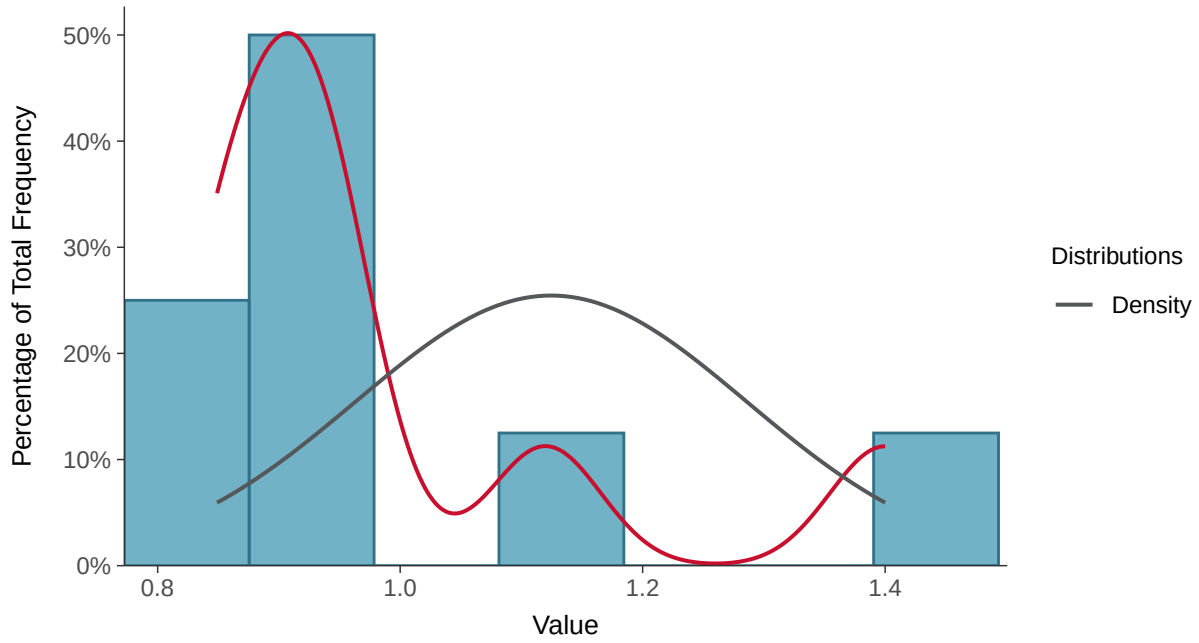
Scatter Plot

Radium 226 and 228, MW-36 (pCi/L)



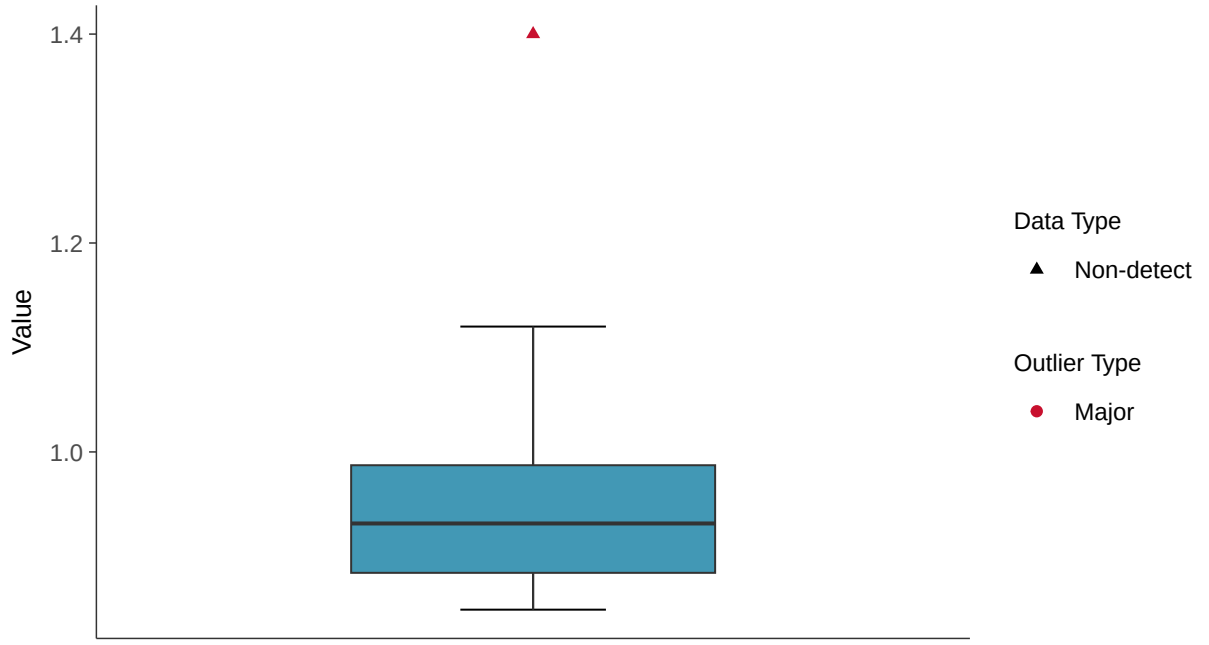
Histogram

Radium 226 and 228, MW-36 (pCi/L)



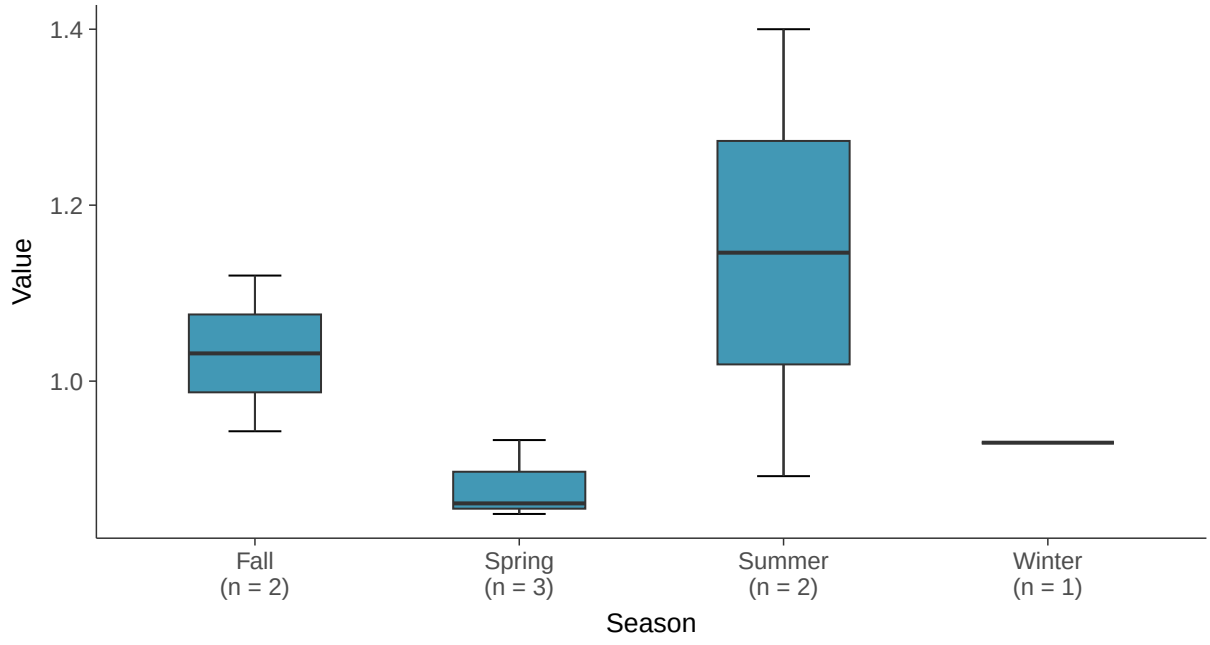
Boxplot

Radium 226 and 228, MW-36 (pCi/L)



Boxplot by Season

Radium 226 and 228, MW-36 (pCi/L)

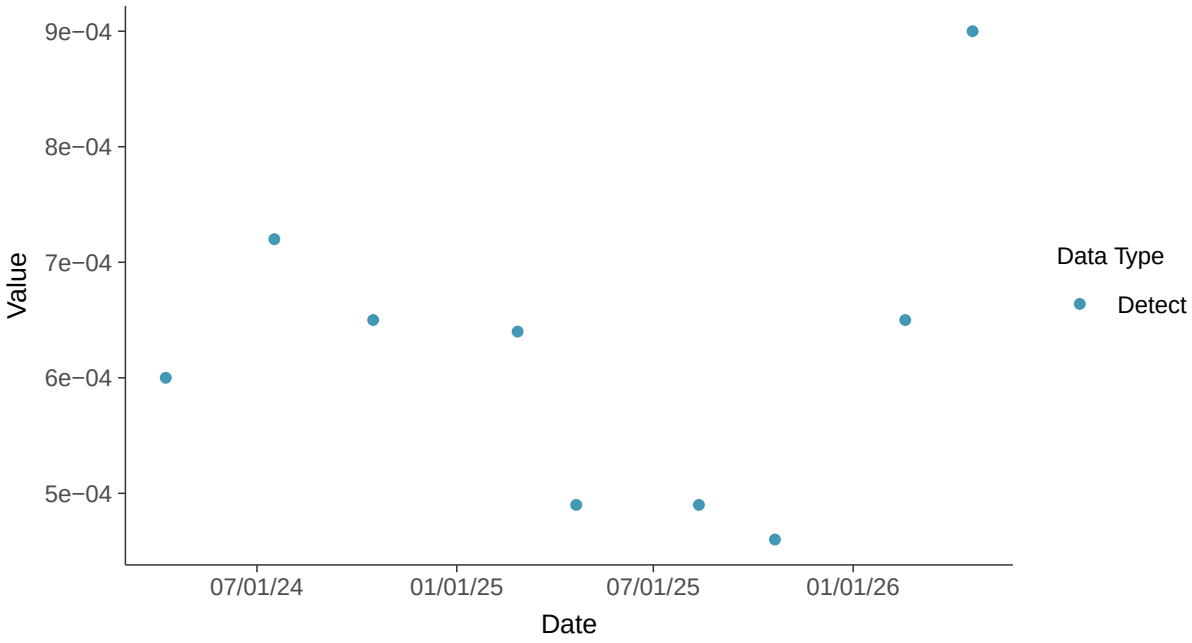


Appendix IV: Selenium, MW-36

ID: 46_1_4_122

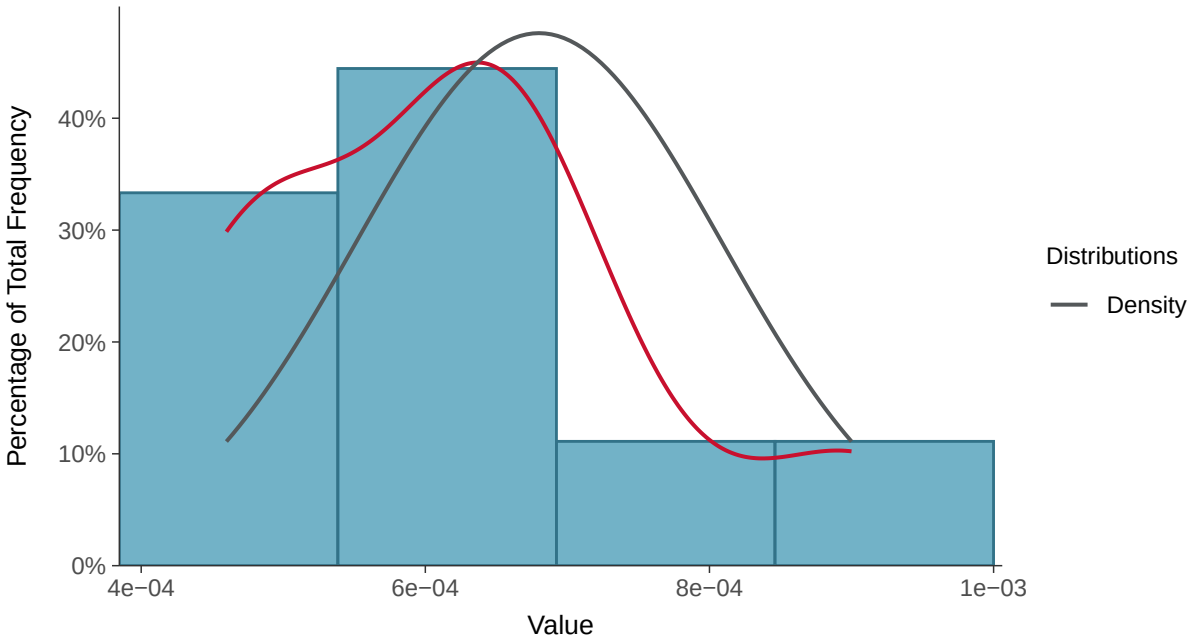
Scatter Plot

Selenium, MW-36 (mg/L)



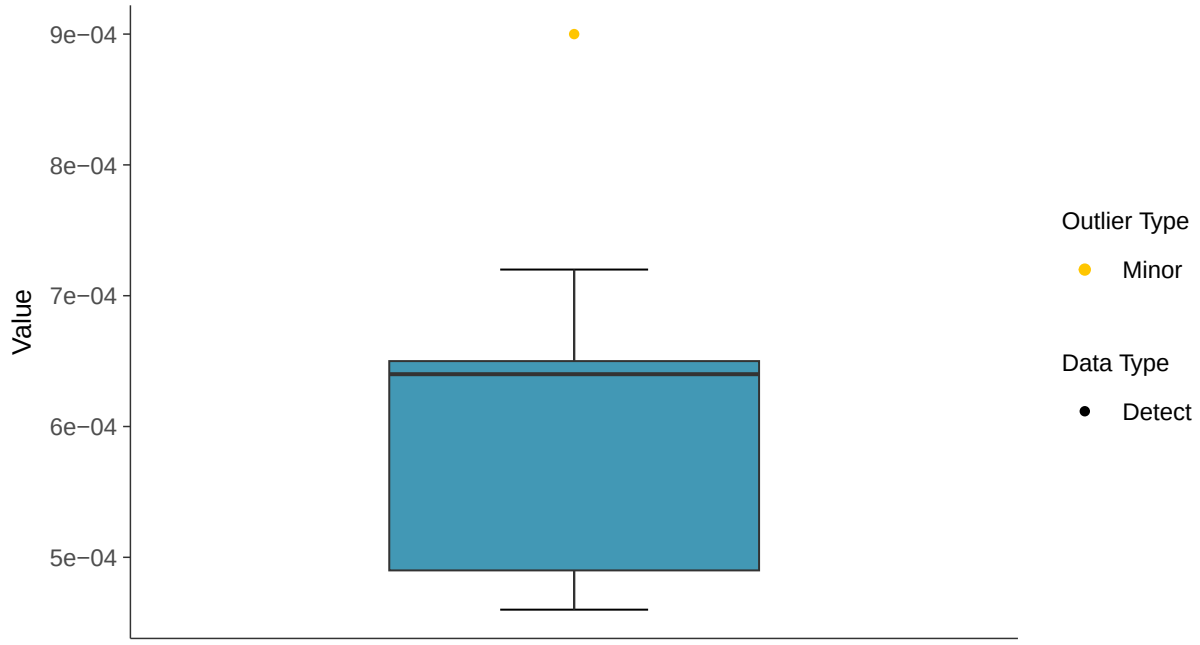
Histogram

Selenium, MW-36 (mg/L)



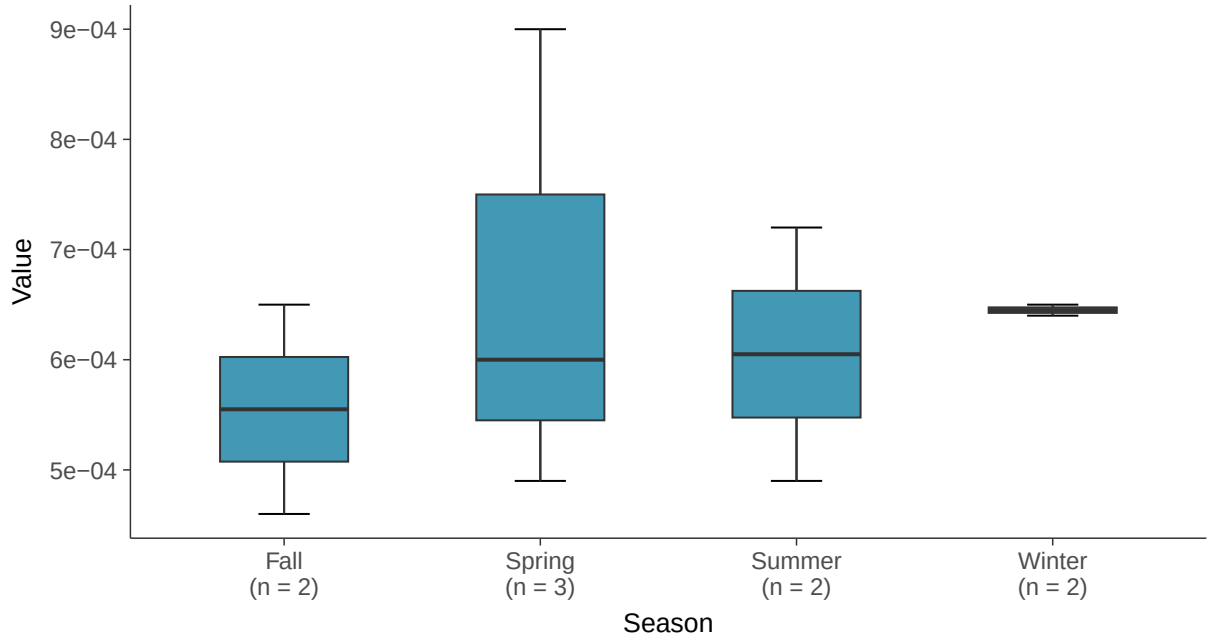
Boxplot

Selenium, MW-36 (mg/L)



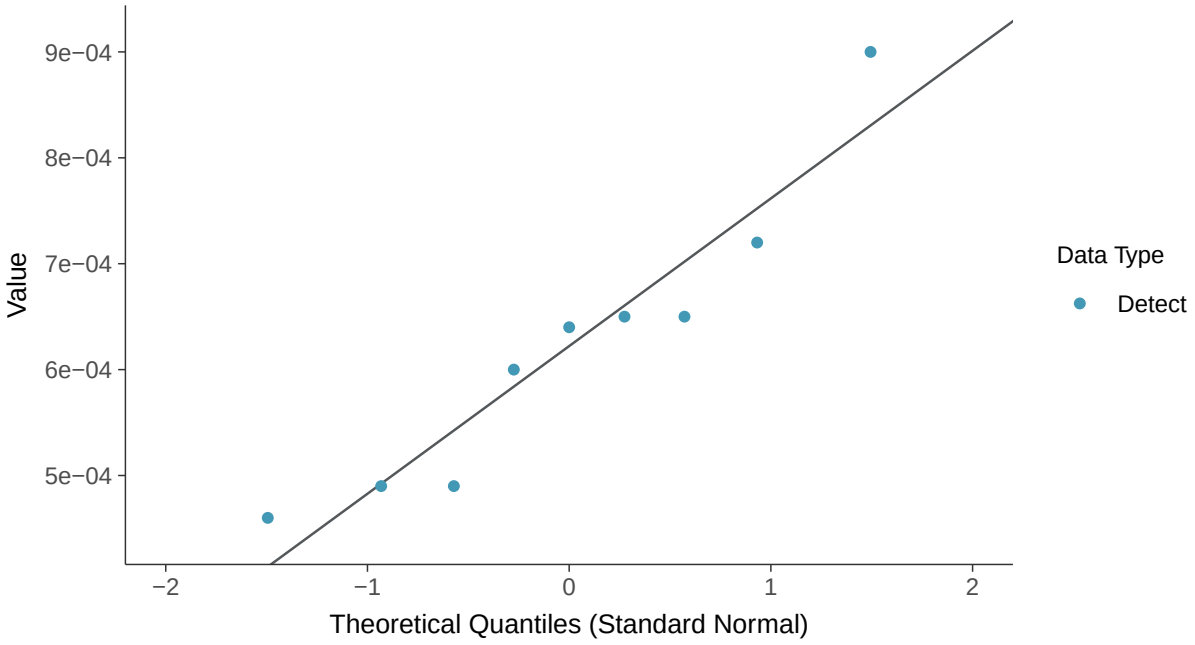
Boxplot by Season

Selenium, MW-36 (mg/L)



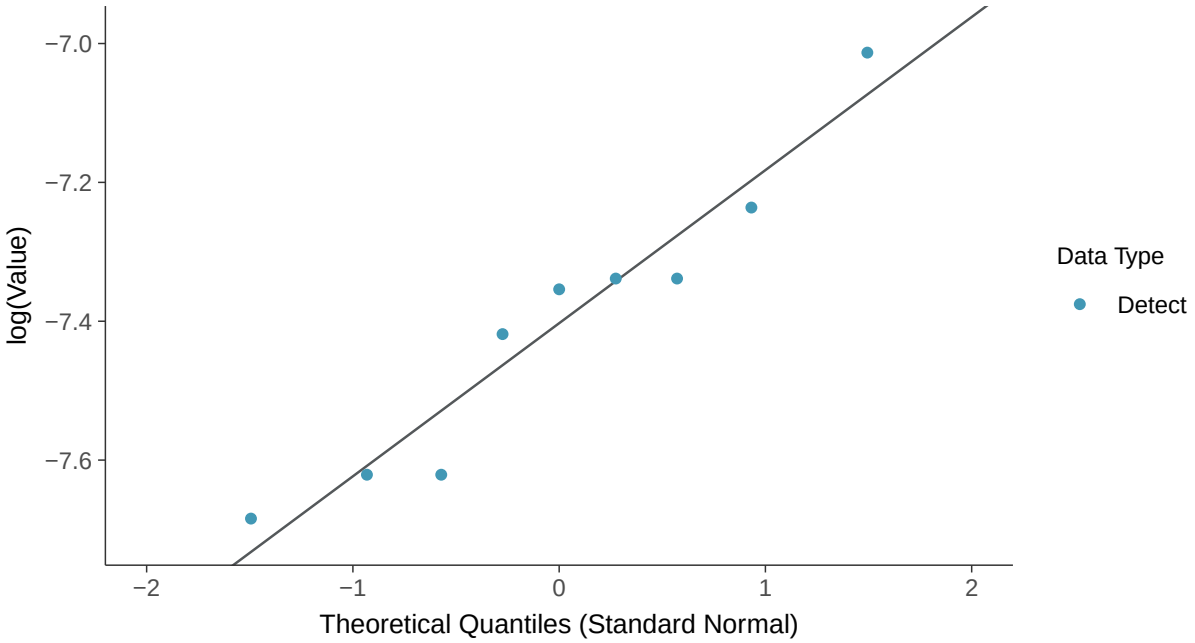
Normal Q-Q plot

Selenium, MW-36 (mg/L)



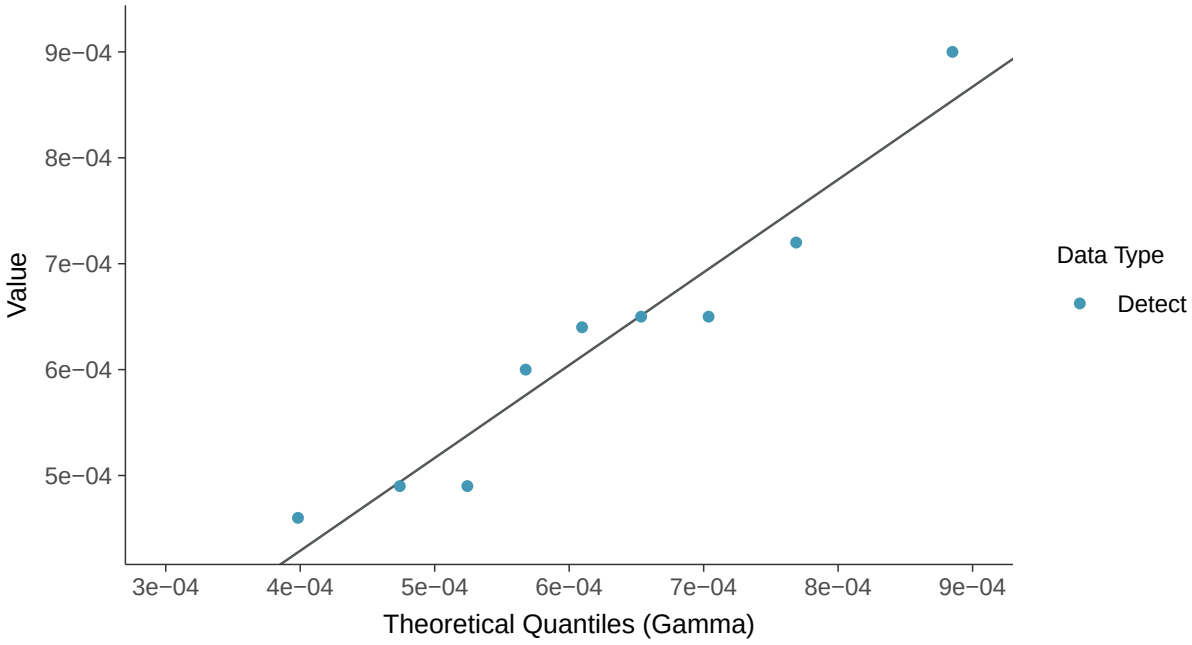
Lognormal Q-Q plot

Selenium, MW-36 (mg/L)



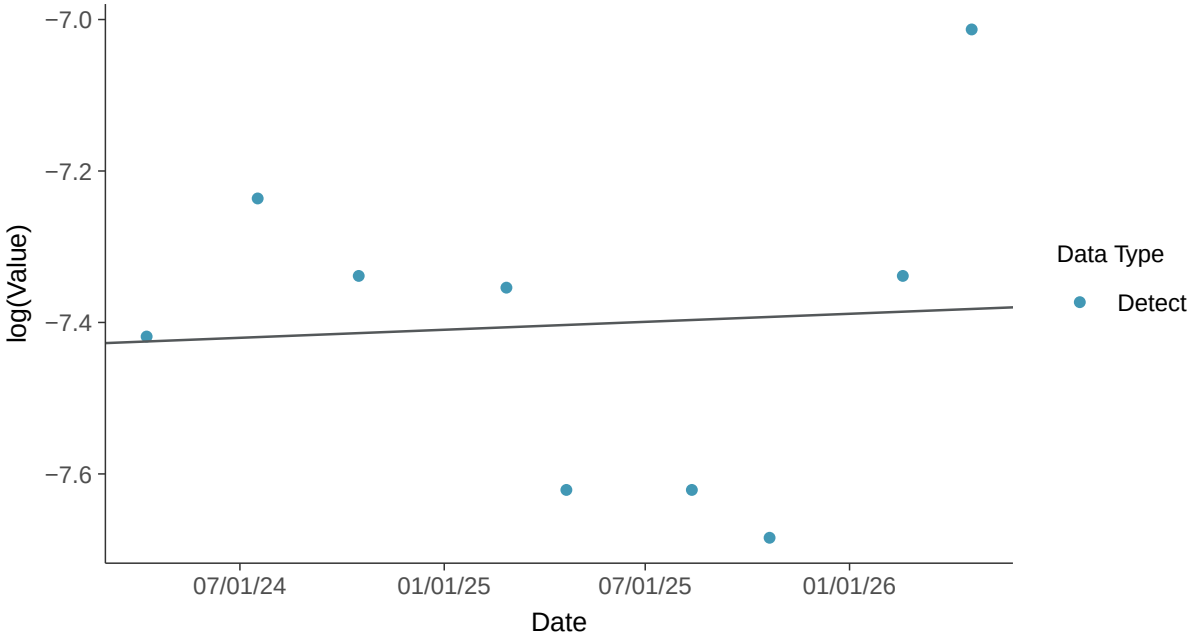
Gamma Q-Q plot

Selenium, MW-36 (mg/L)



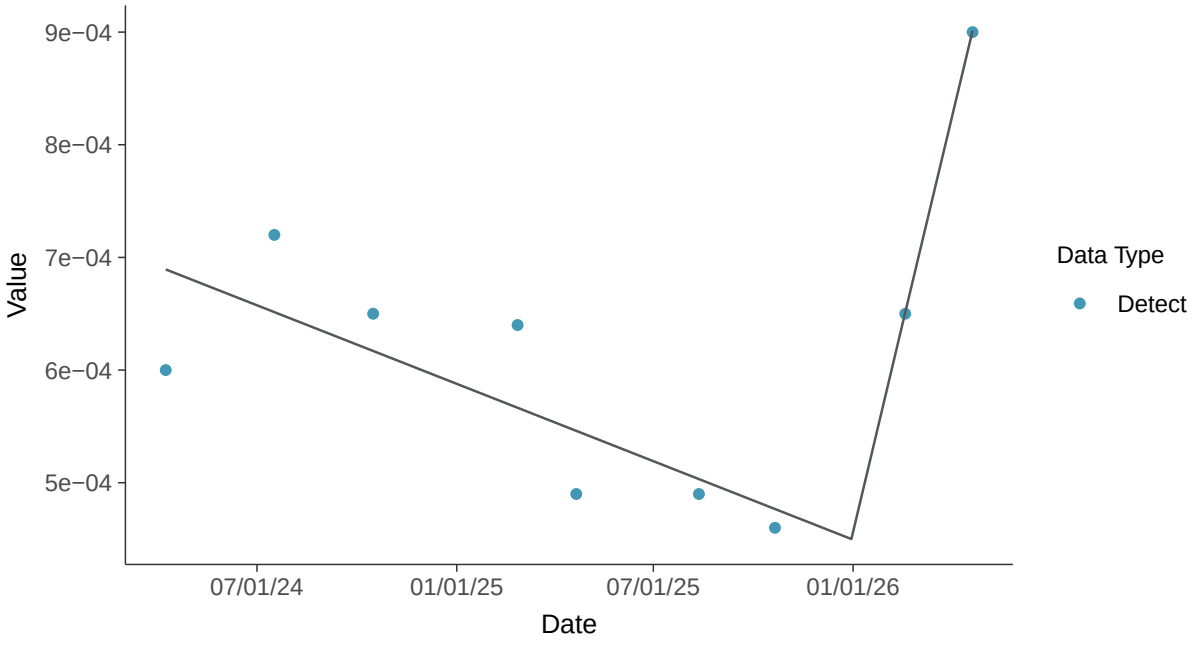
Trend Regression: Lognormal MLE

Selenium, MW-36 (mg/L)



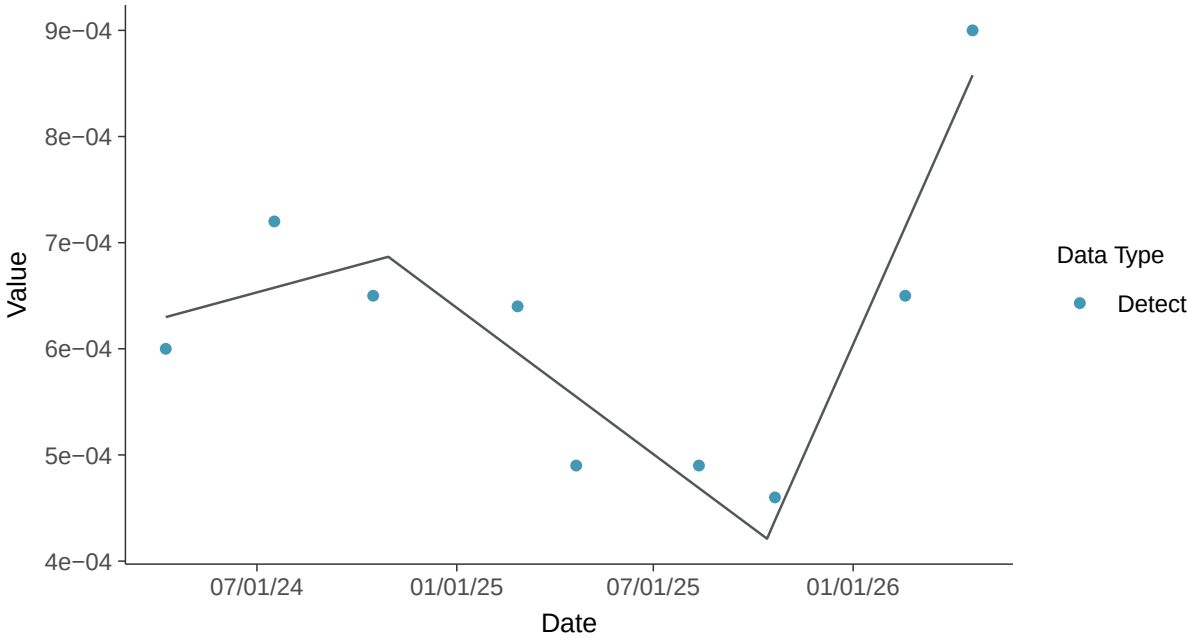
Trend Regression: Piecewise Linear-Linear

Selenium, MW-36 (mg/L)



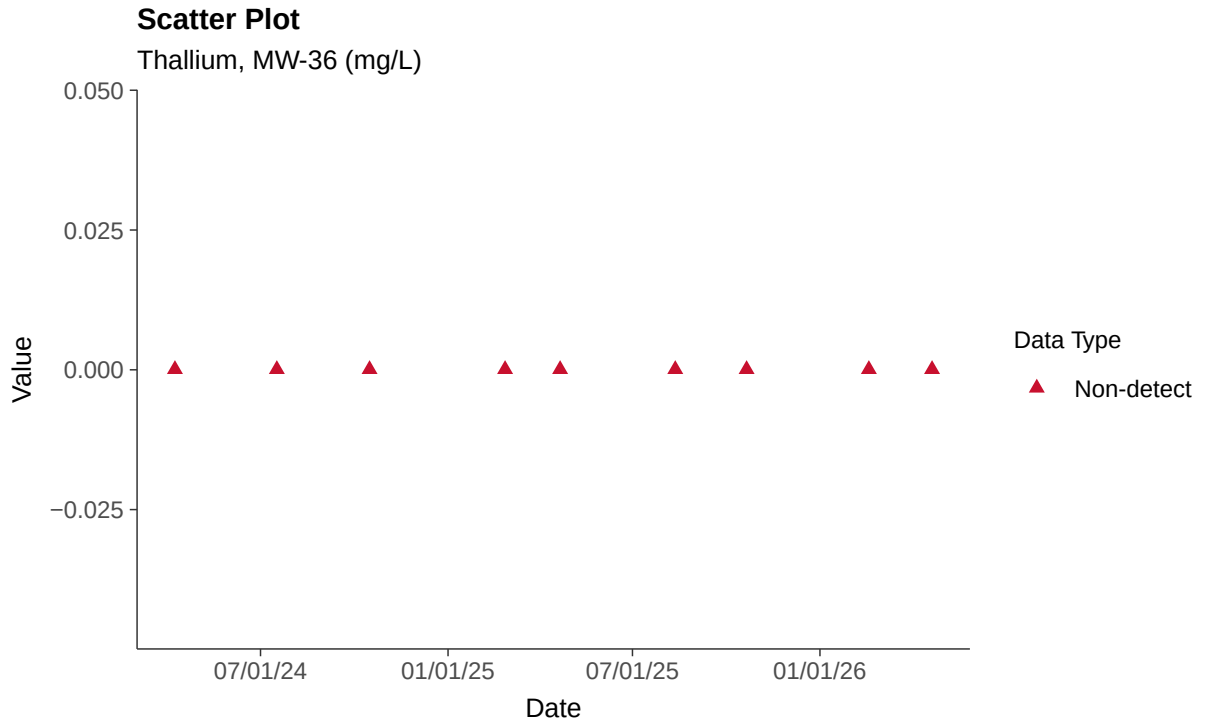
Trend Regression: Piecewise Linear-Linear-Linear

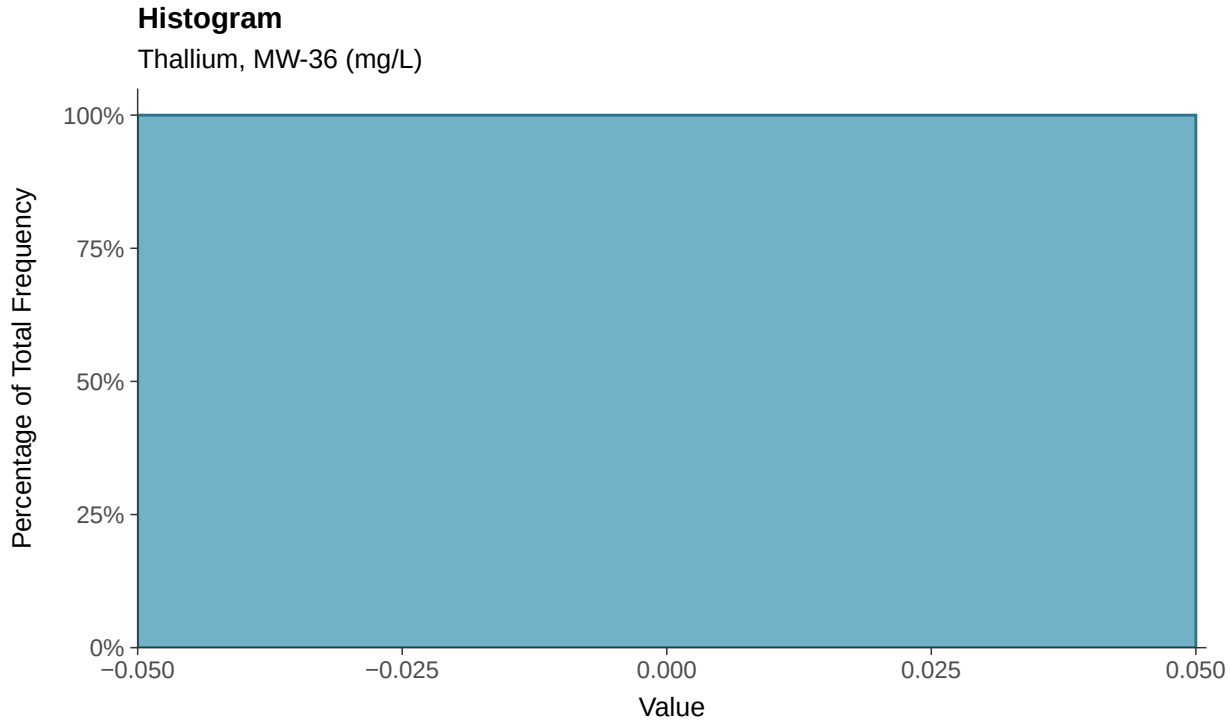
Selenium, MW-36 (mg/L)



Appendix IV: Thallium, MW-36

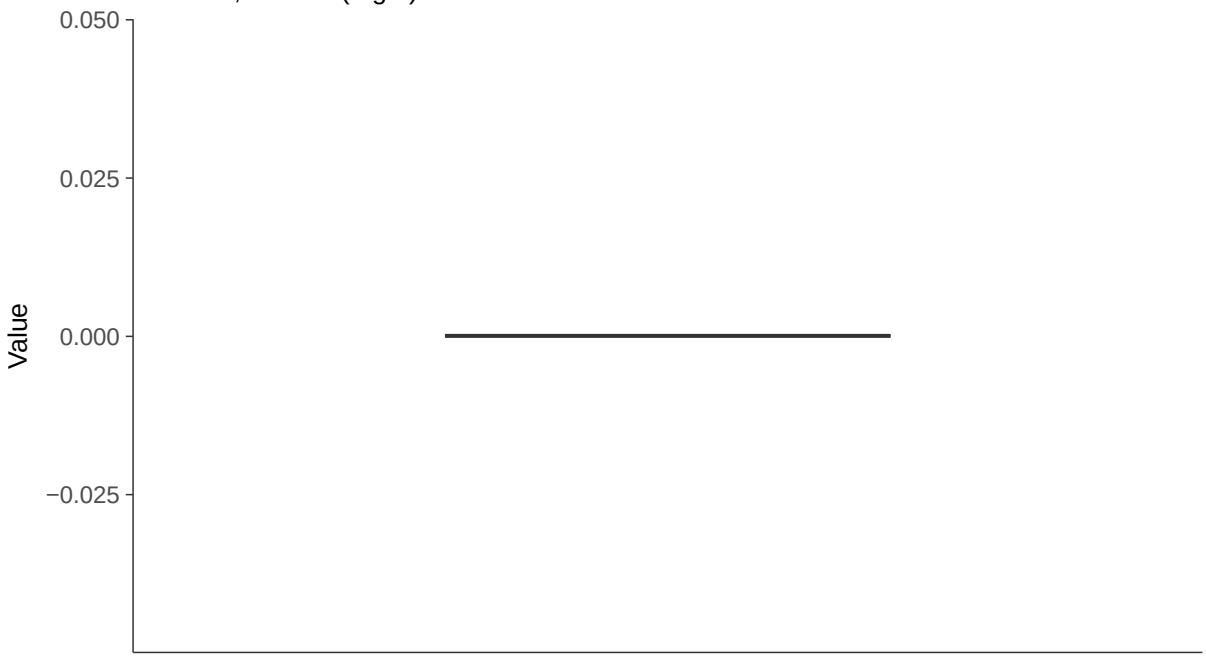
ID: 46_1_4_125





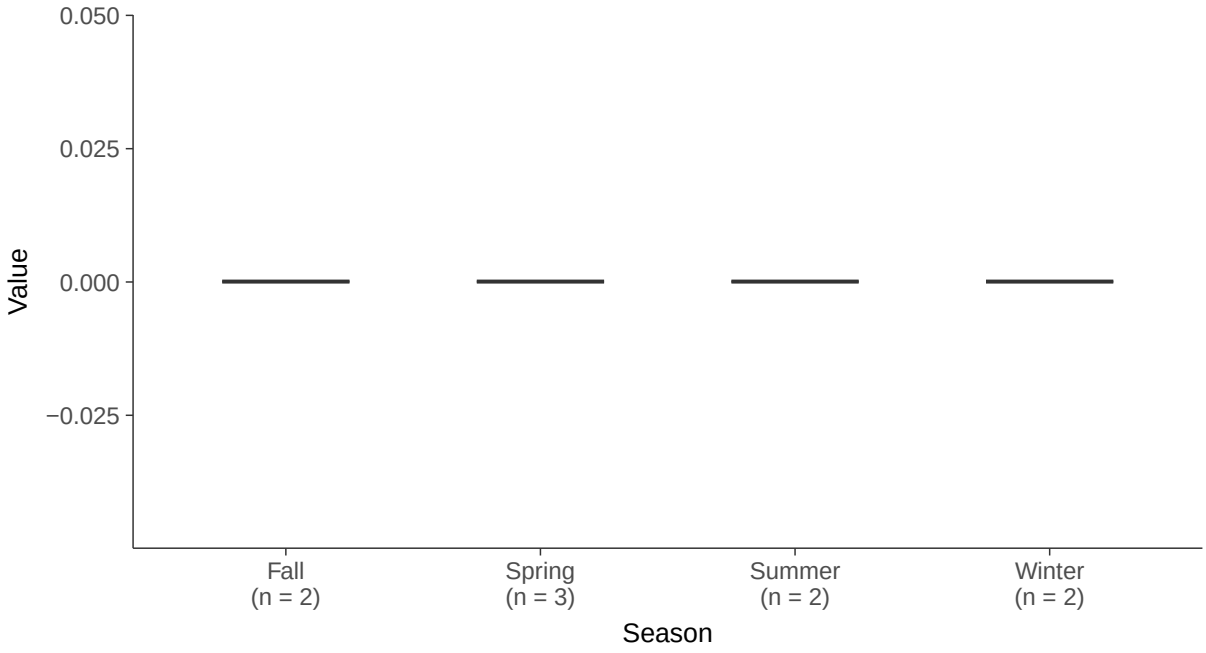
Boxplot

Thallium, MW-36 (mg/L)



Boxplot by Season

Thallium, MW-36 (mg/L)

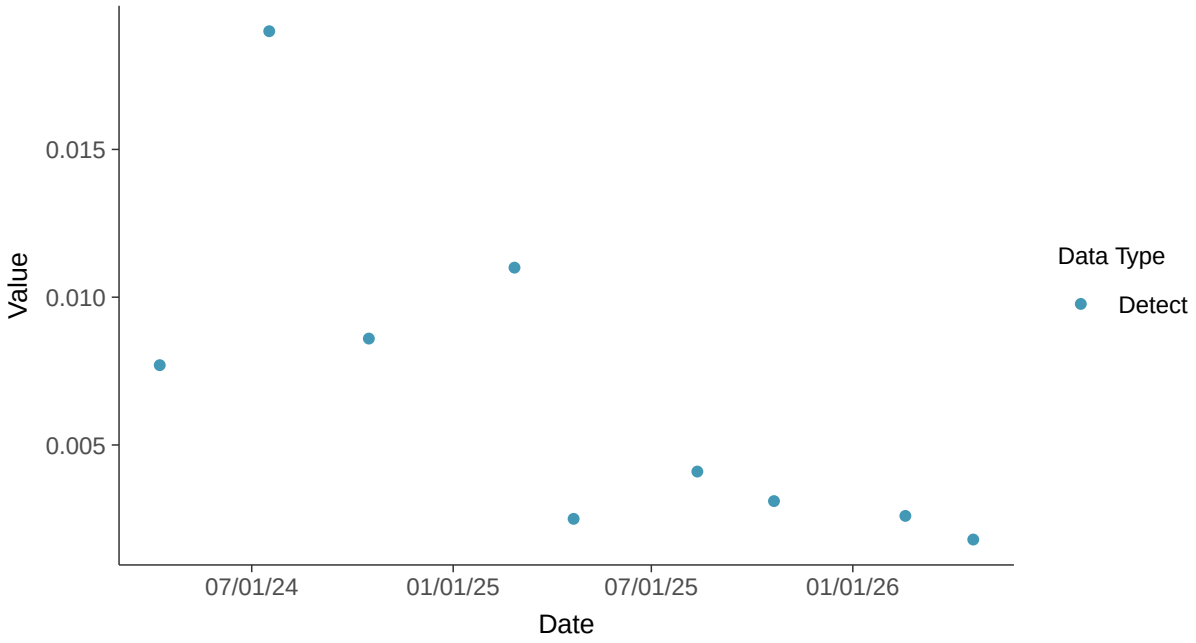


Part 115: Copper, MW-36

ID: 46_1_5_111

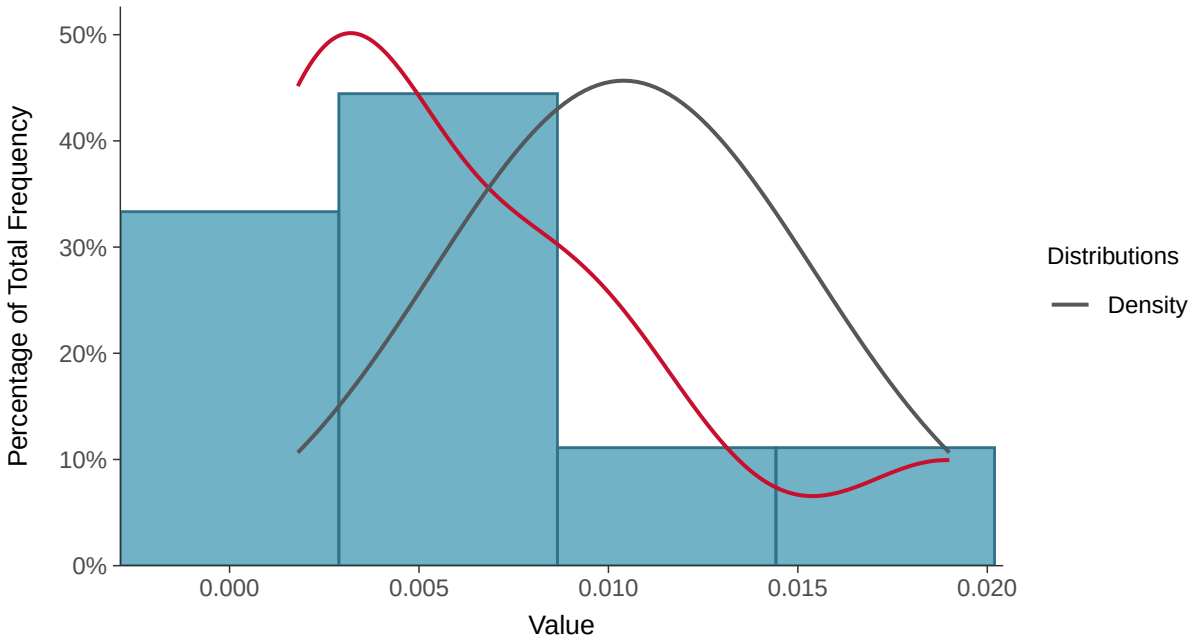
Scatter Plot

Copper, MW-36 (mg/L)



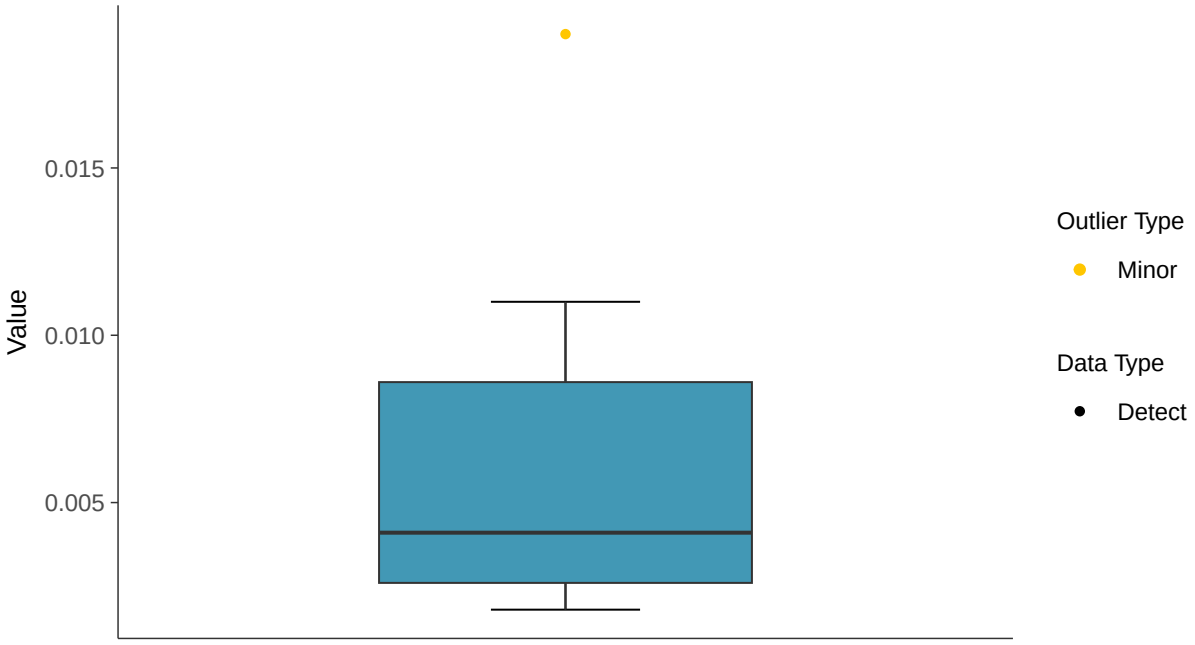
Histogram

Copper, MW-36 (mg/L)



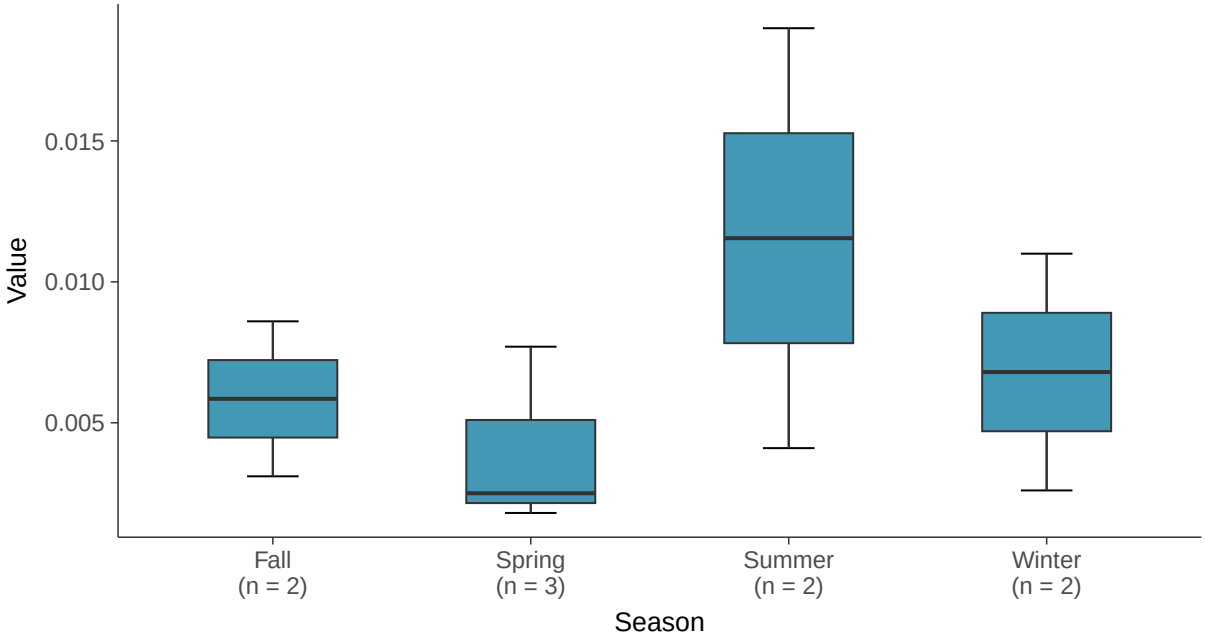
Boxplot

Copper, MW-36 (mg/L)



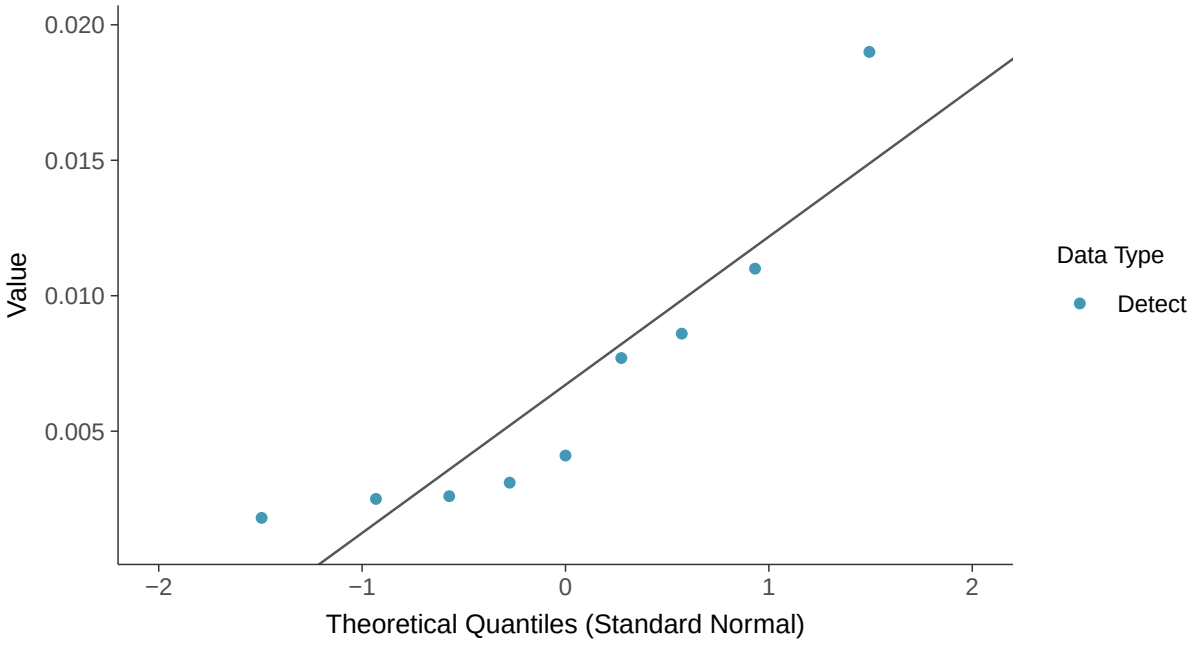
Boxplot by Season

Copper, MW-36 (mg/L)



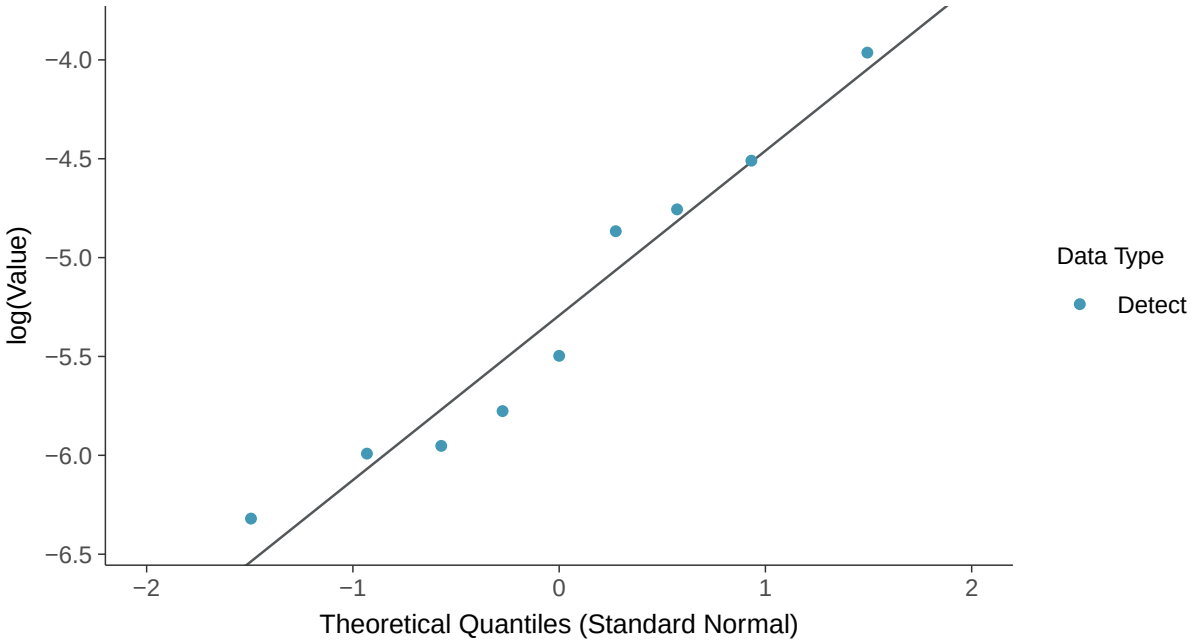
Normal Q-Q plot

Copper, MW-36 (mg/L)



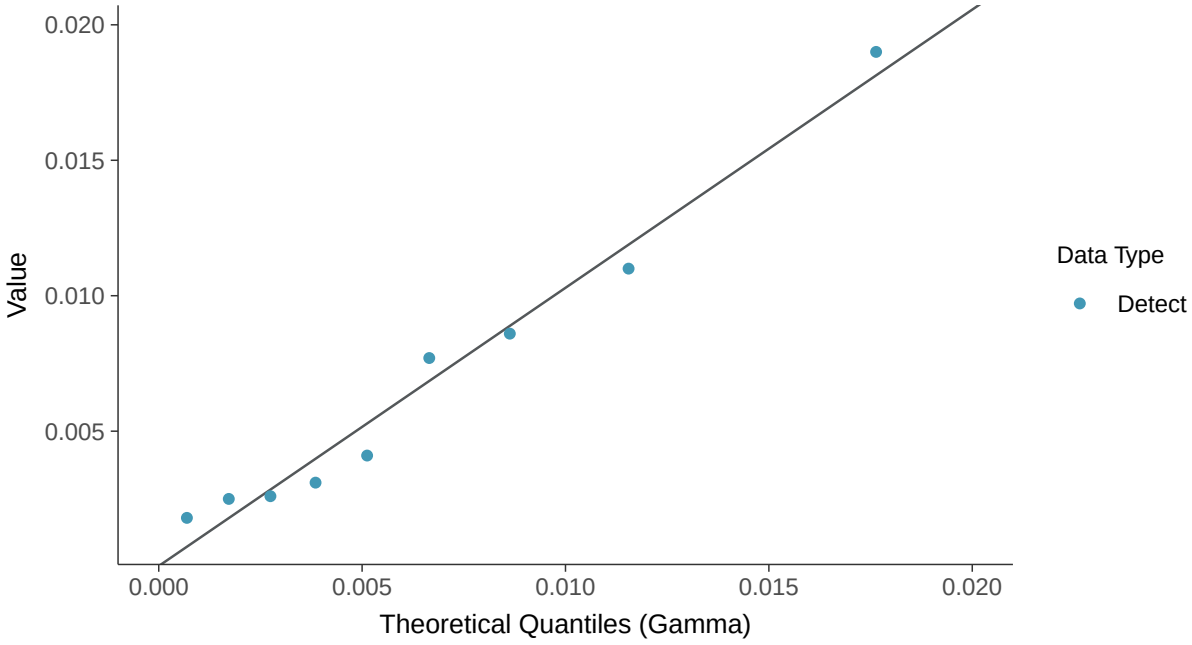
Lognormal Q-Q plot

Copper, MW-36 (mg/L)



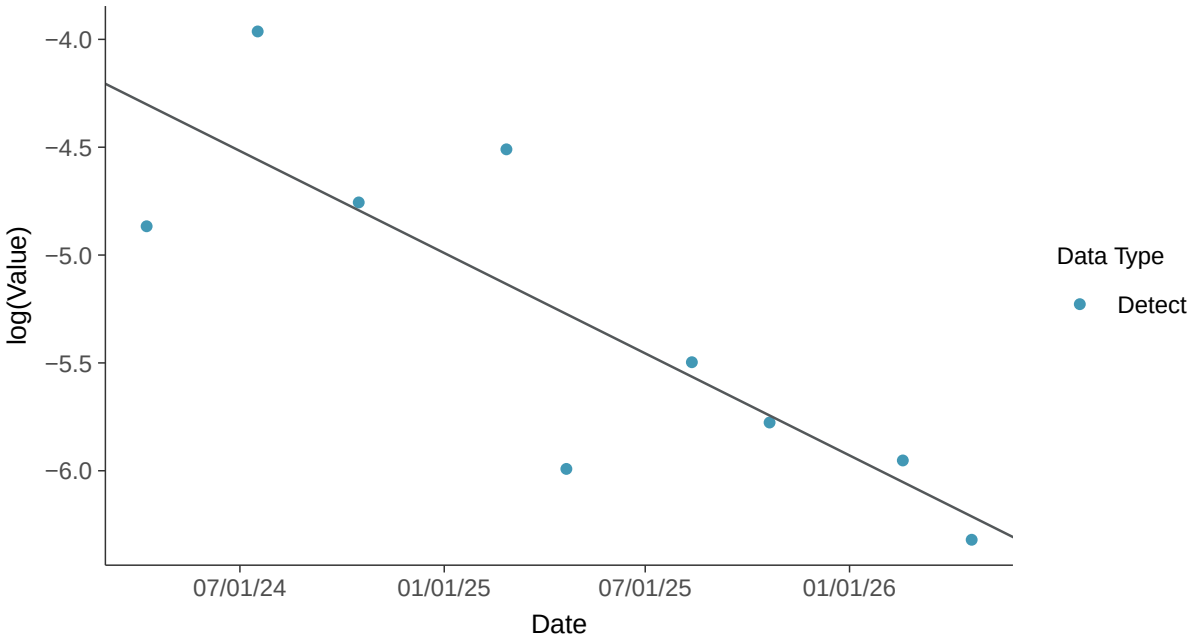
Gamma Q-Q plot

Copper, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Copper, MW-36 (mg/L)

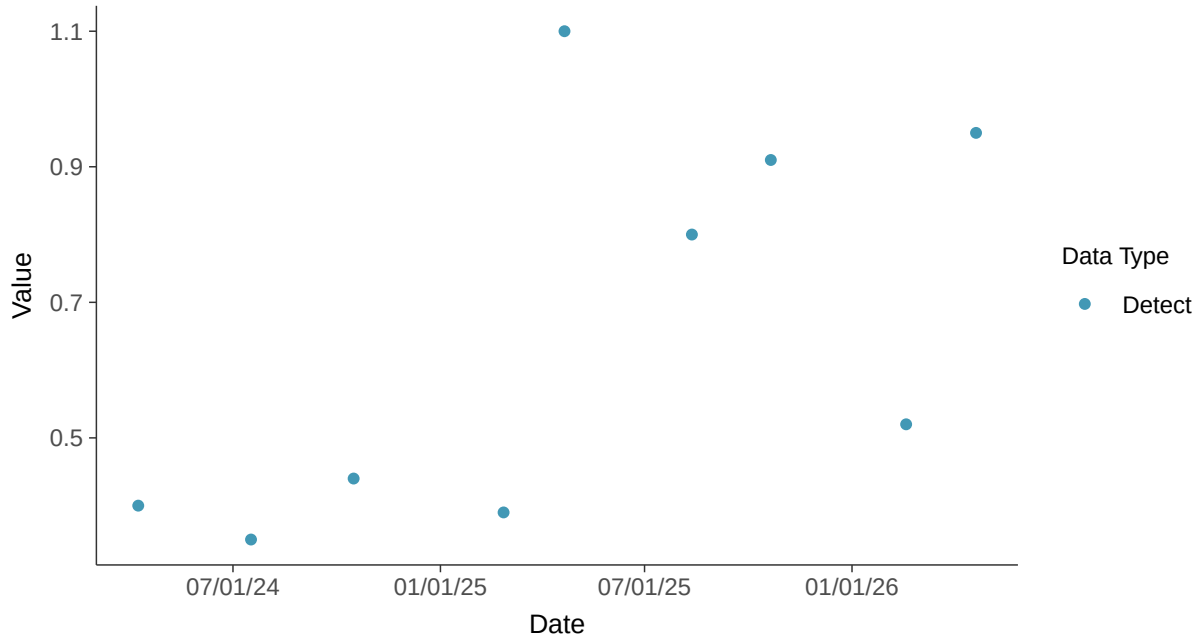


Part 115: Iron, MW-36

ID: 46_1_5_114

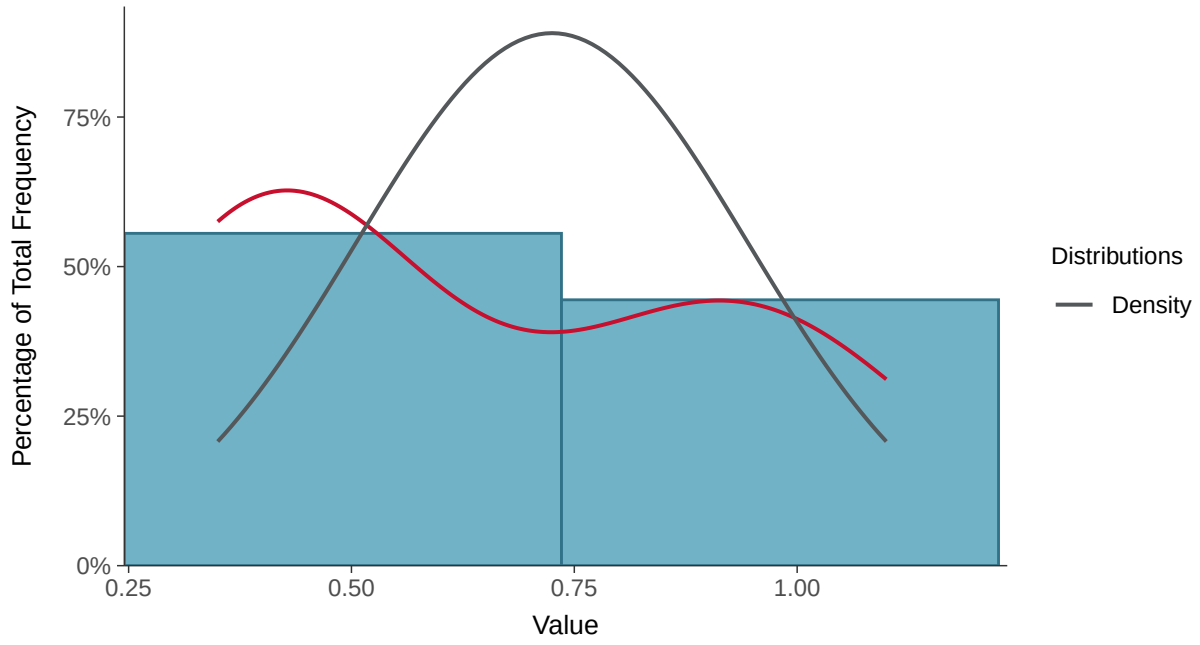
Scatter Plot

Iron, MW-36 (mg/L)



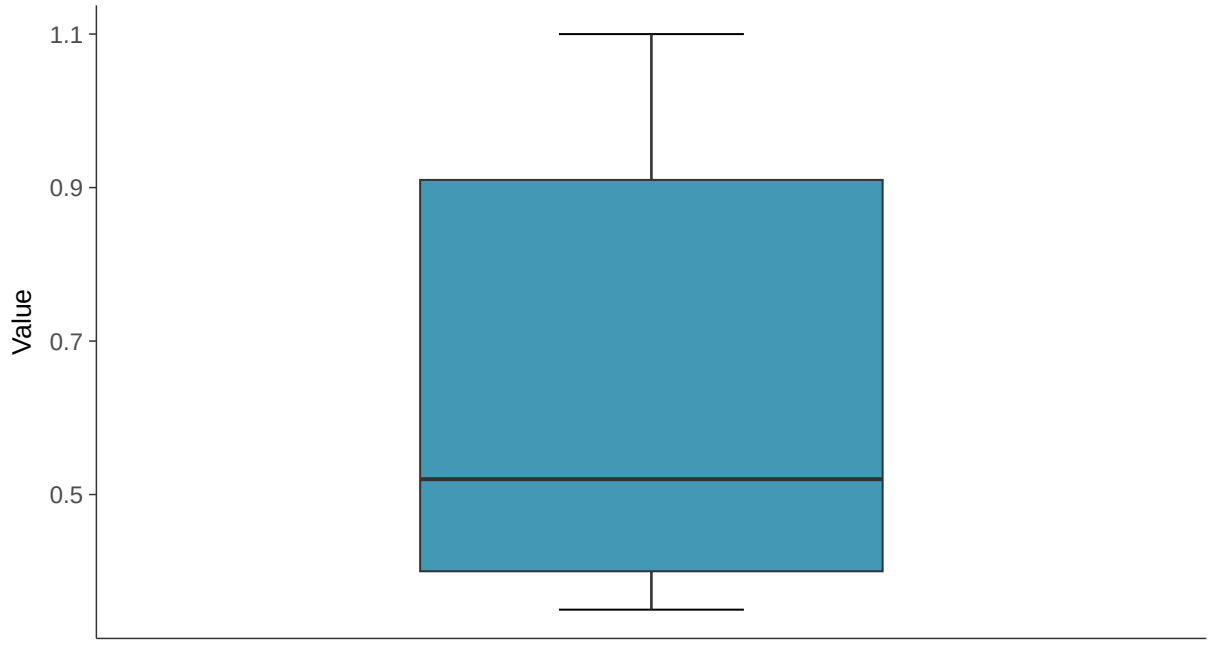
Histogram

Iron, MW-36 (mg/L)



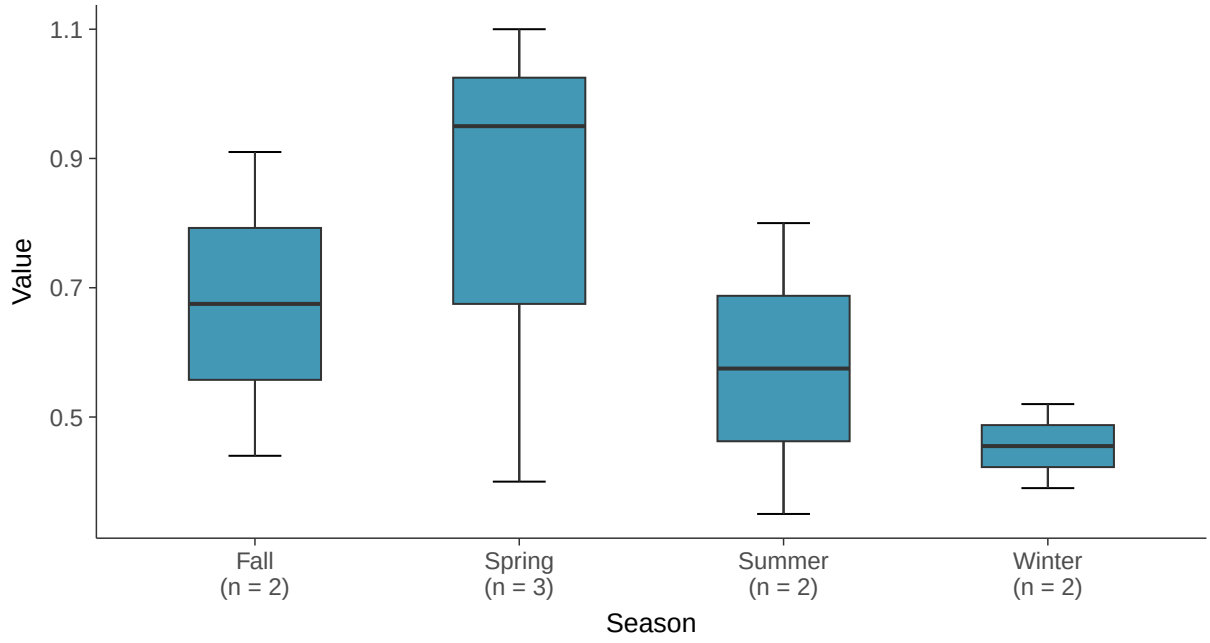
Boxplot

Iron, MW-36 (mg/L)



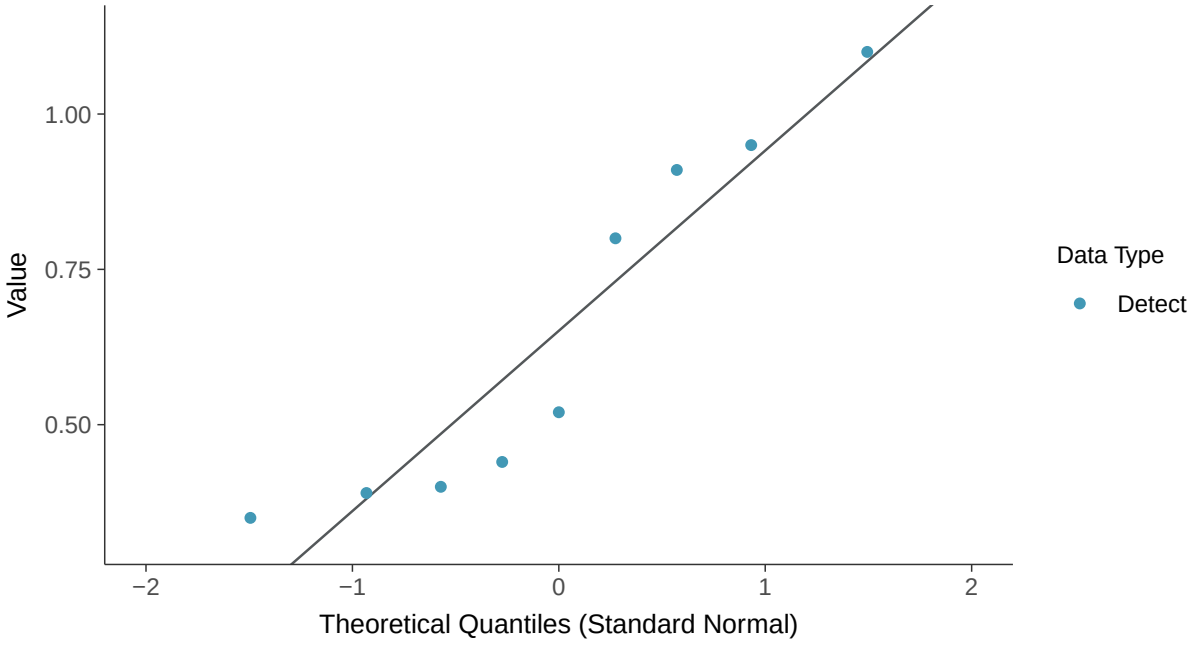
Boxplot by Season

Iron, MW-36 (mg/L)



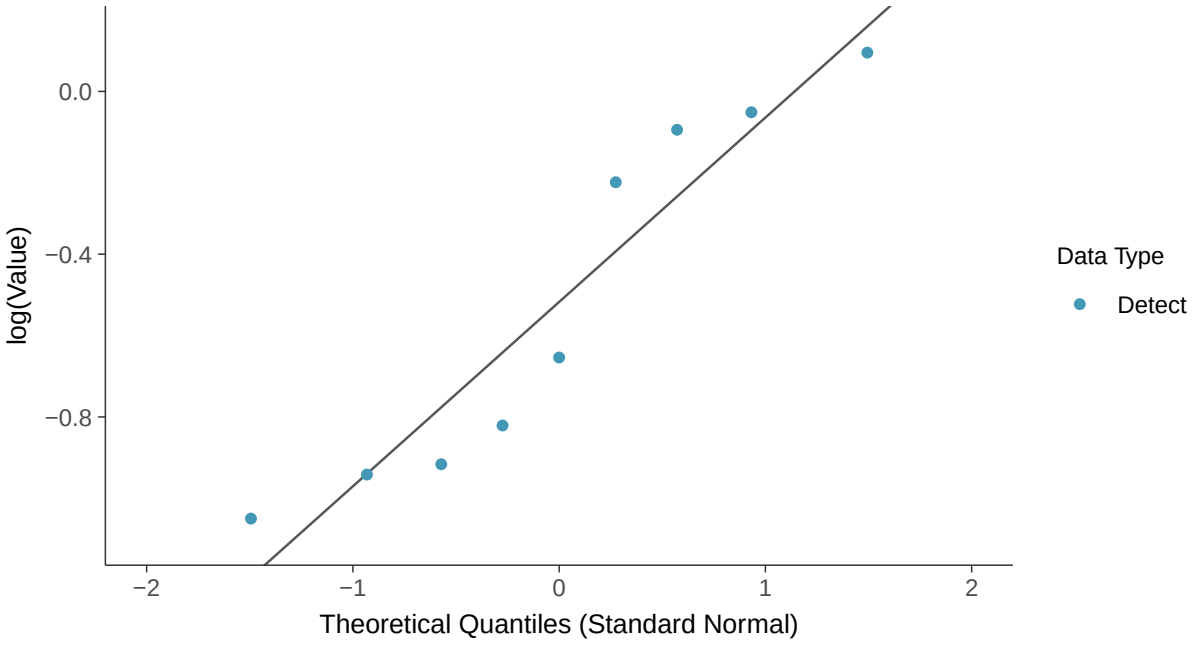
Normal Q-Q plot

Iron, MW-36 (mg/L)



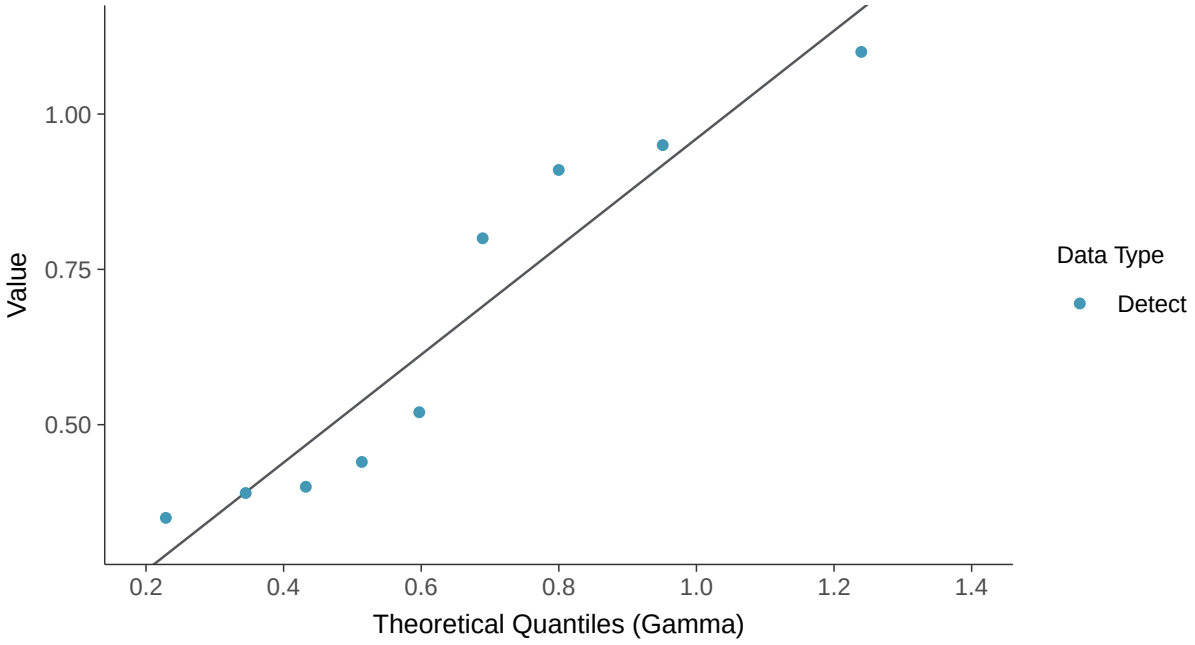
Lognormal Q-Q plot

Iron, MW-36 (mg/L)



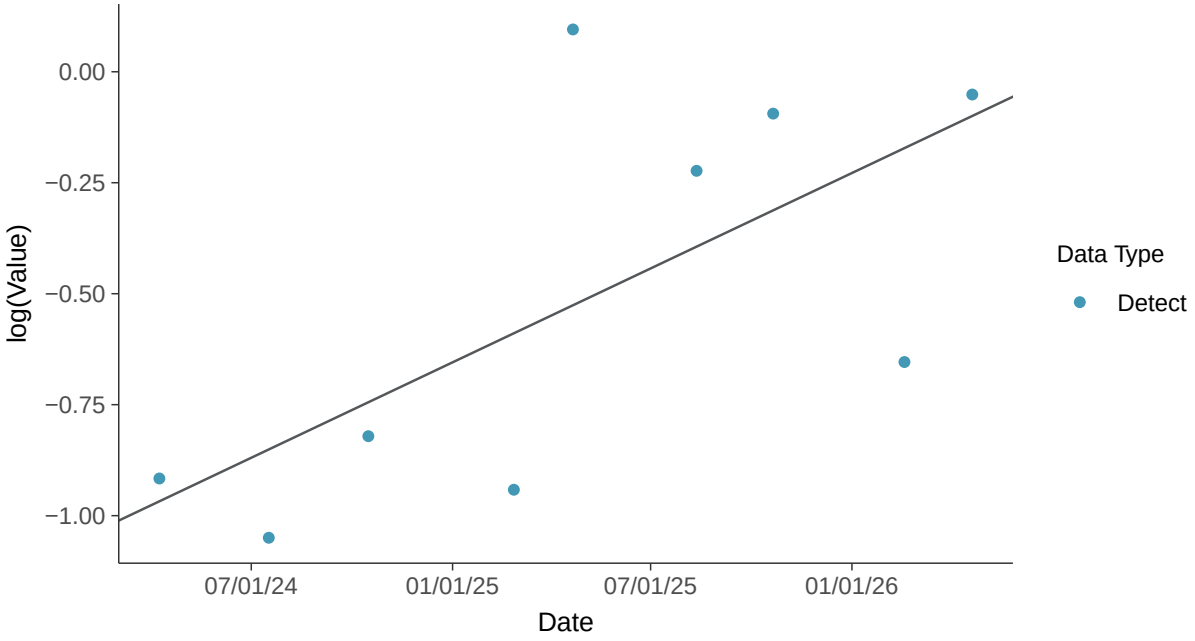
Gamma Q-Q plot

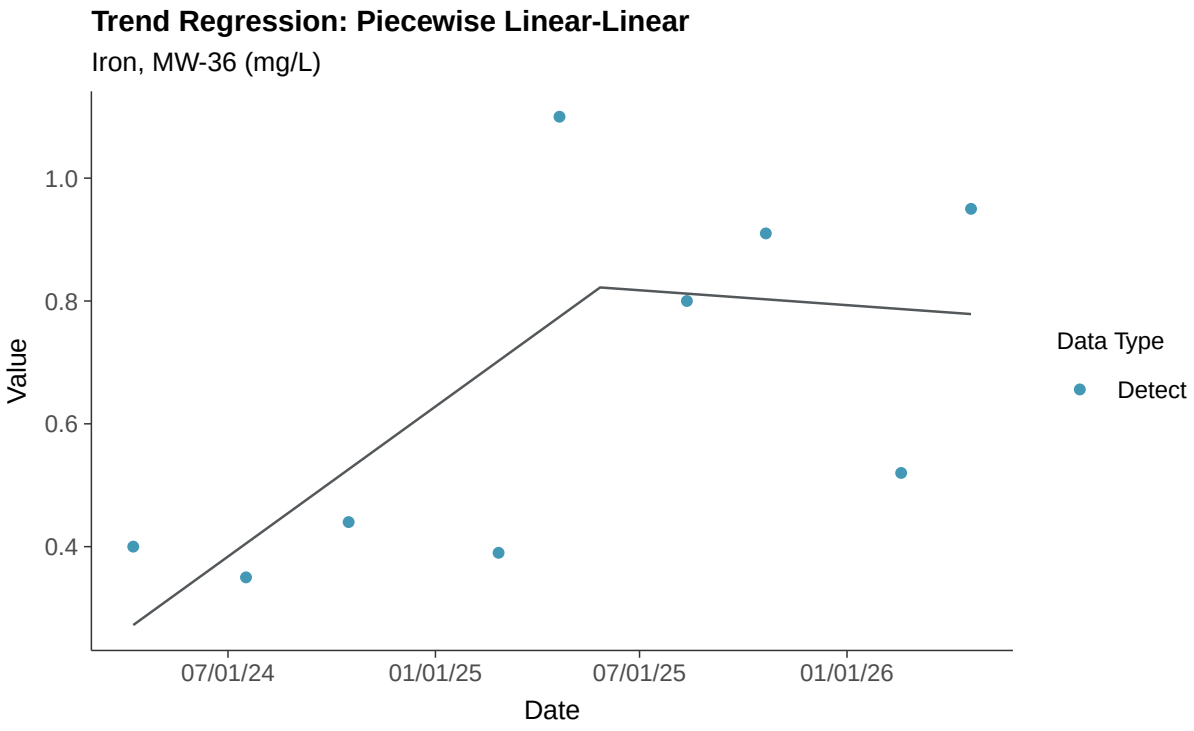
Iron, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Iron, MW-36 (mg/L)



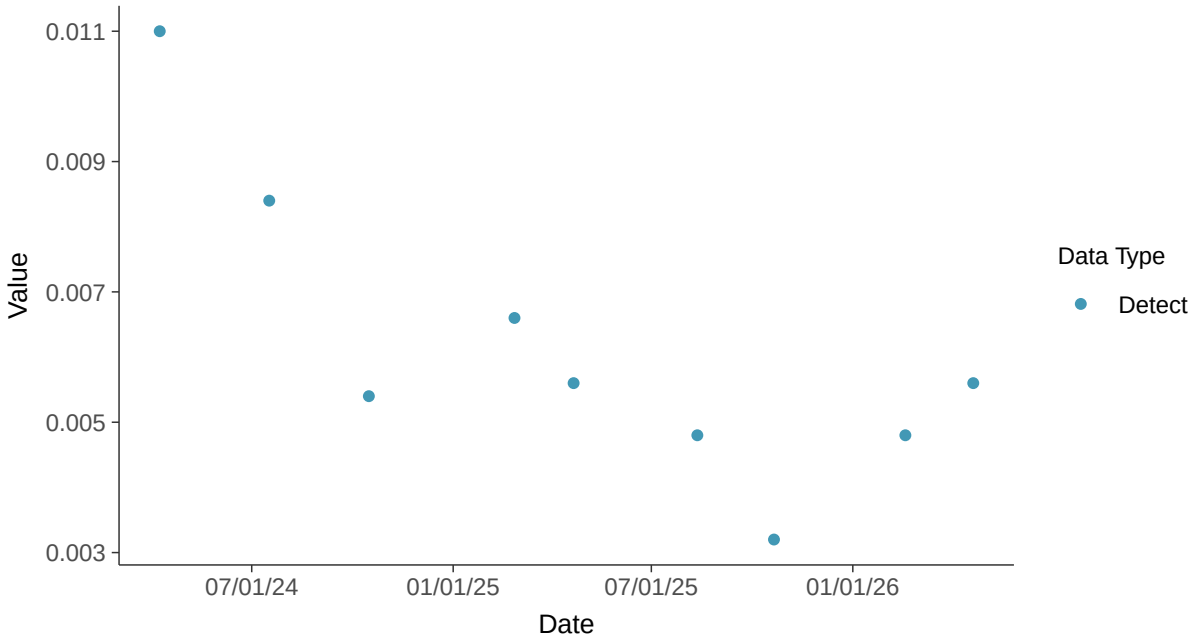

Trend Regression: Piecewise Linear-Linear
Iron, MW-36 (mg/L)
1.0
0.8
0.6
0.4
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Part 115: Nickel, MW-36

ID: 46_1_5_119

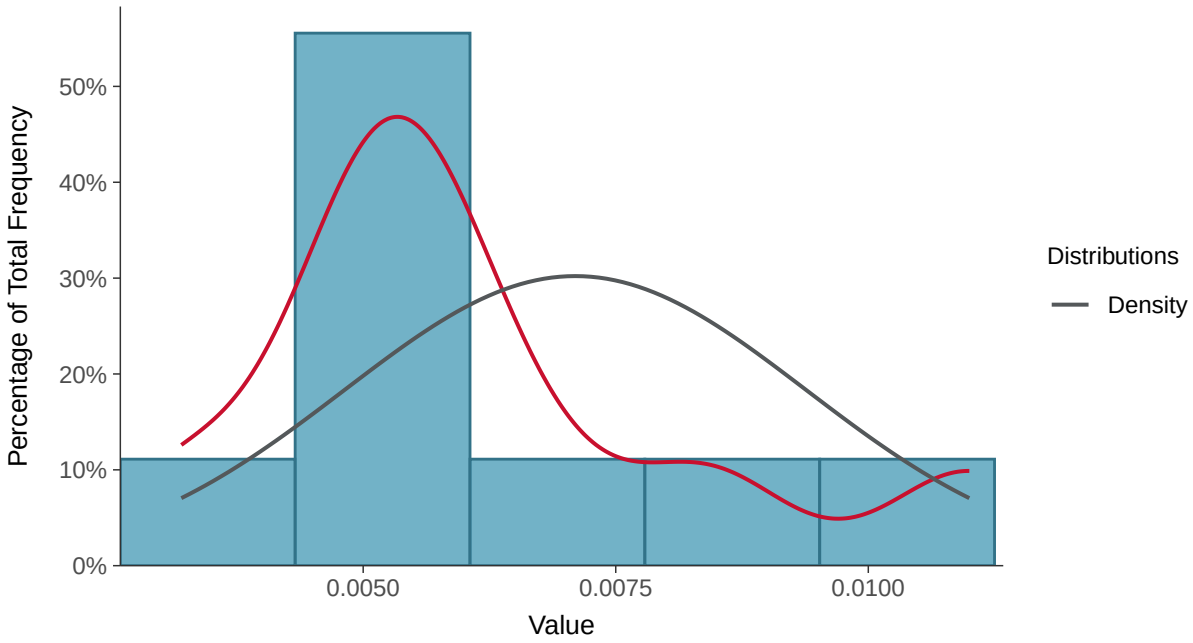
Scatter Plot

Nickel, MW-36 (mg/L)



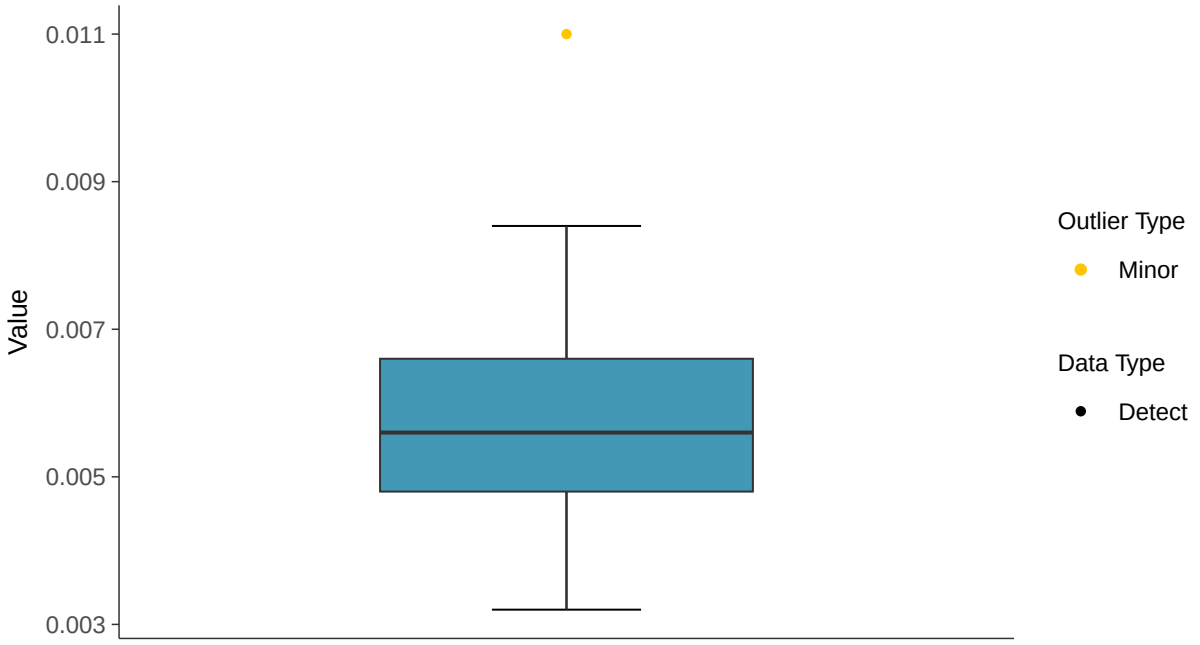
Histogram

Nickel, MW-36 (mg/L)



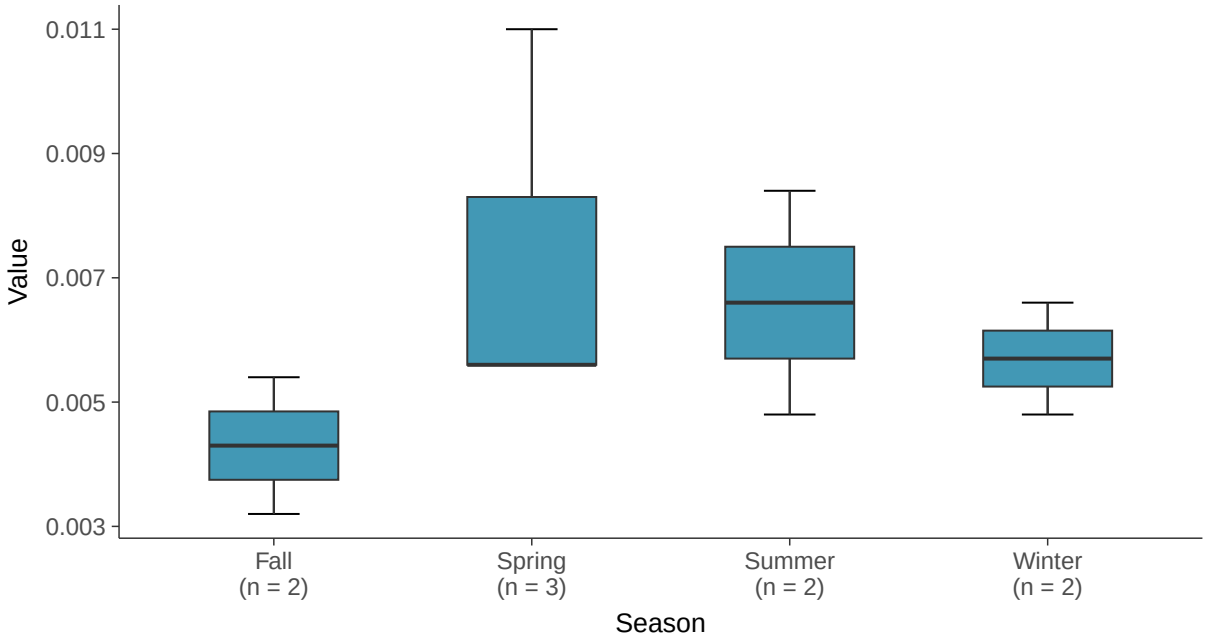
Boxplot

Nickel, MW-36 (mg/L)



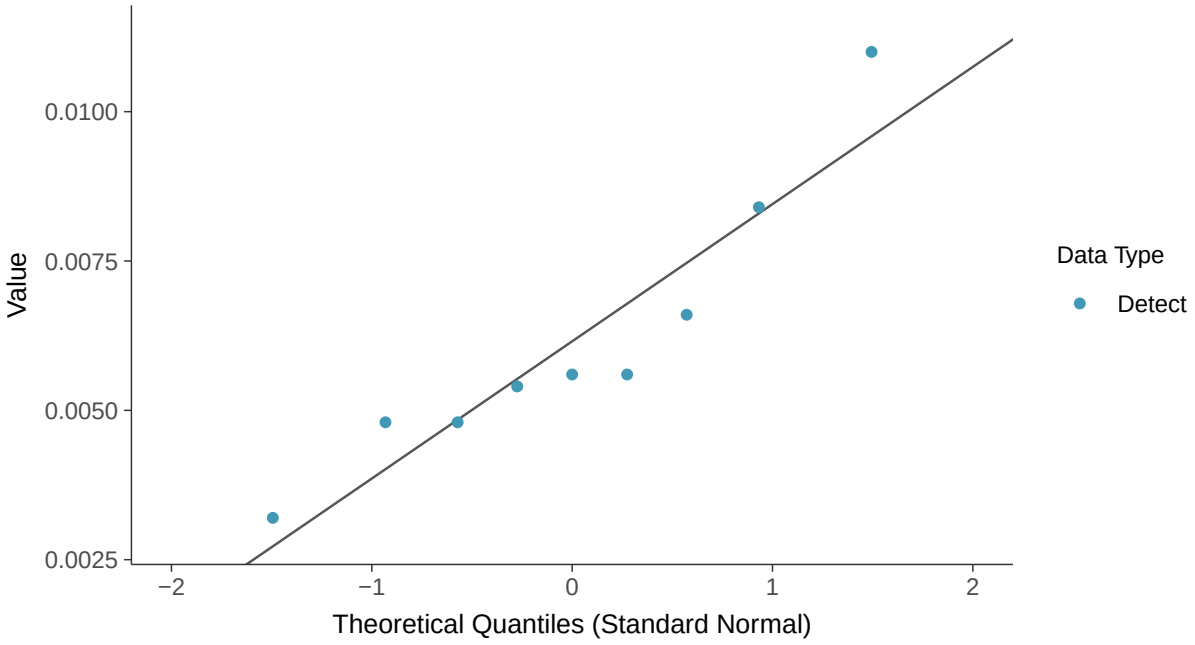
Boxplot by Season

Nickel, MW-36 (mg/L)



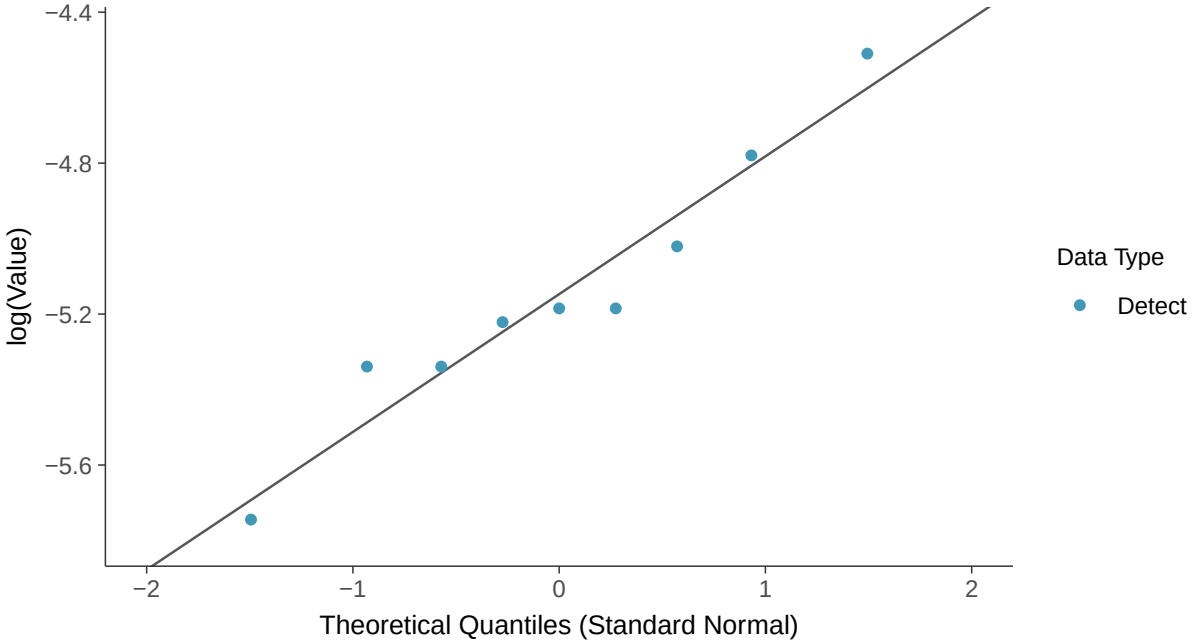
Normal Q-Q plot

Nickel, MW-36 (mg/L)



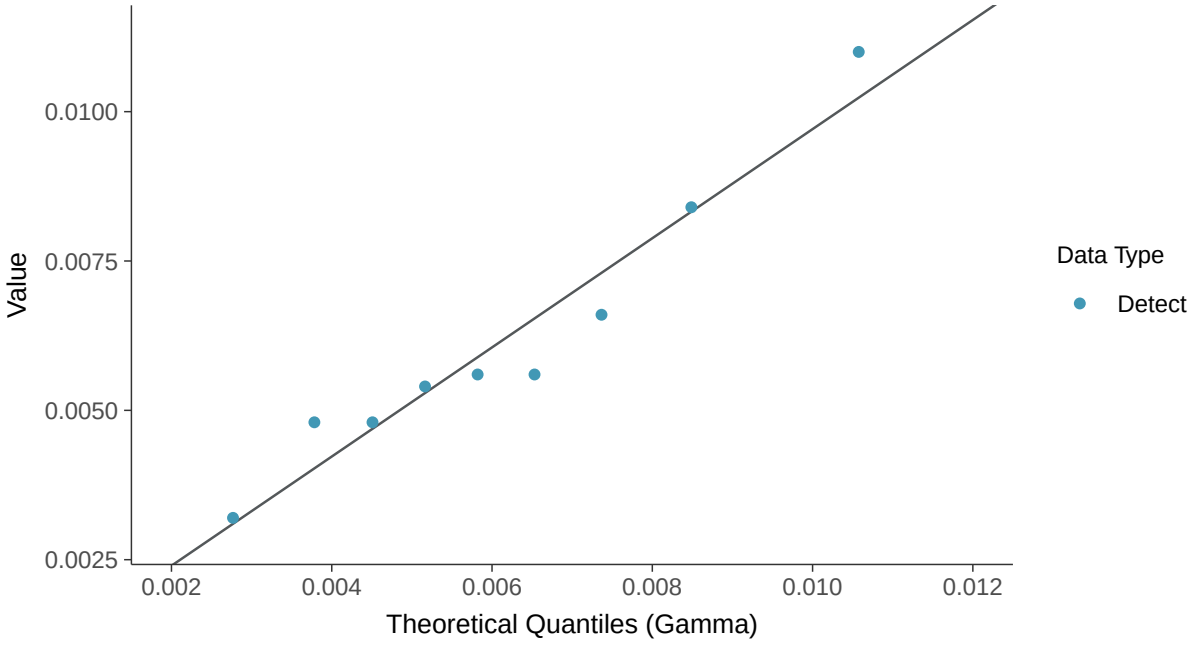
Lognormal Q-Q plot

Nickel, MW-36 (mg/L)



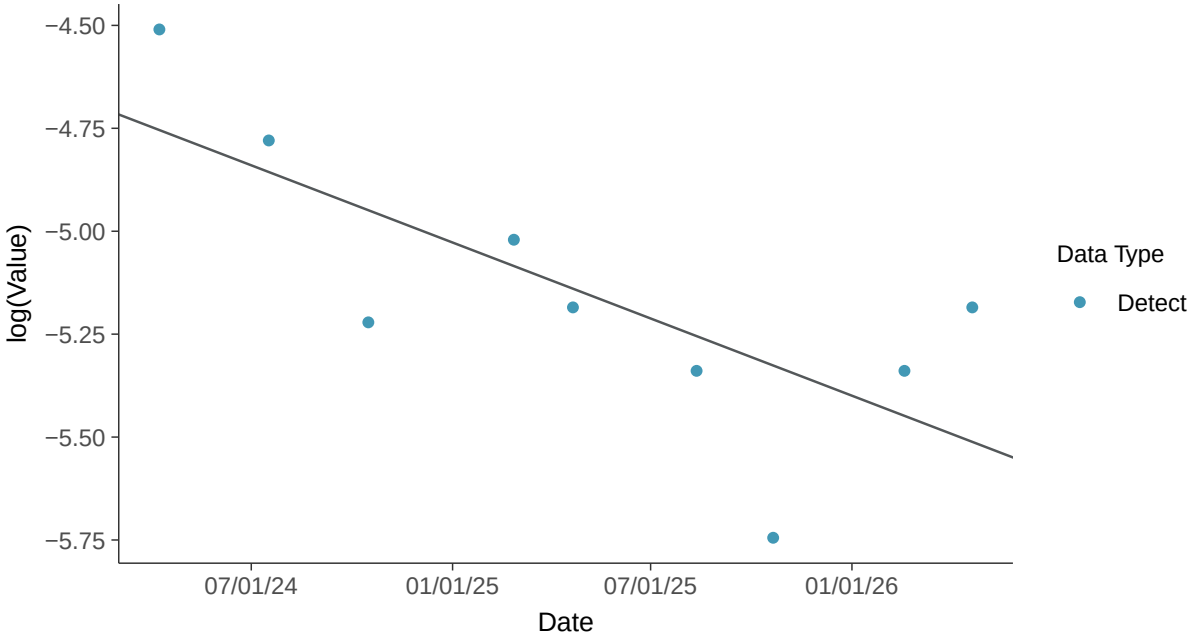
Gamma Q-Q plot

Nickel, MW-36 (mg/L)



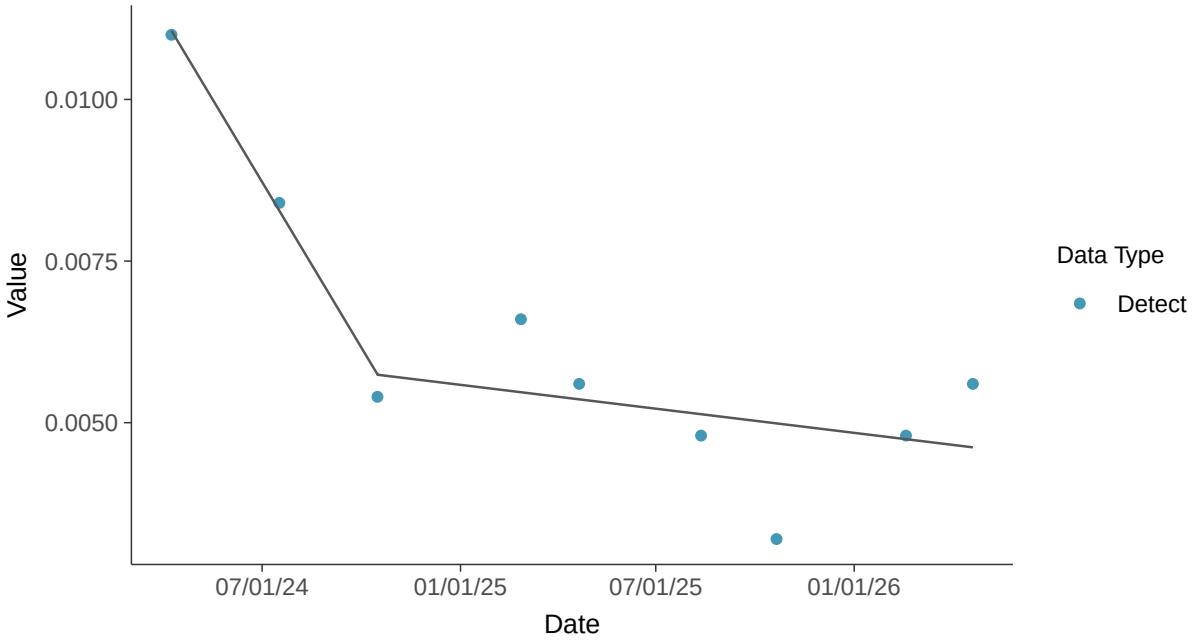
Trend Regression: Lognormal MLE

Nickel, MW-36 (mg/L)



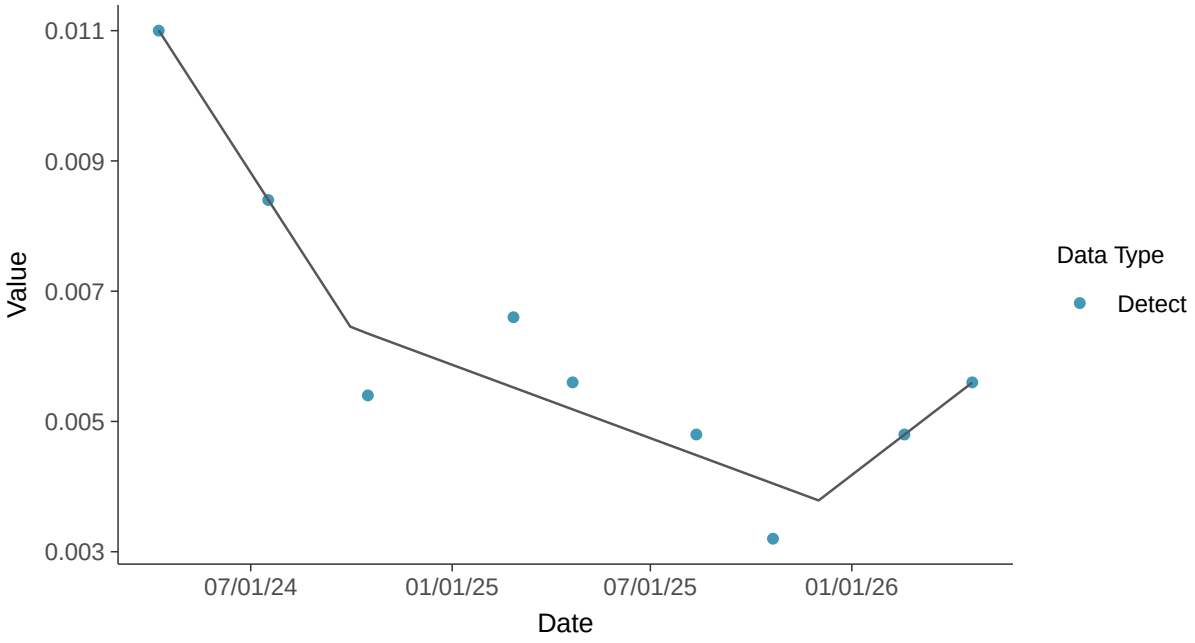
Trend Regression: Piecewise Linear-Linear

Nickel, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Nickel, MW-36 (mg/L)

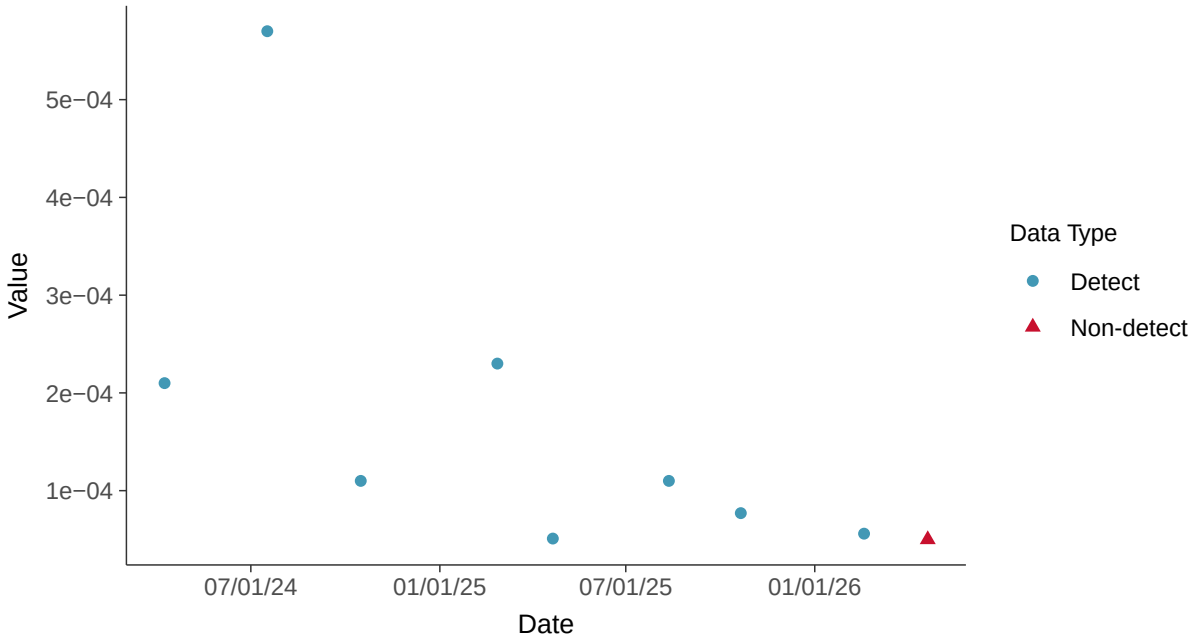


Part 115: Silver, MW-36

ID: 46_1_5_123

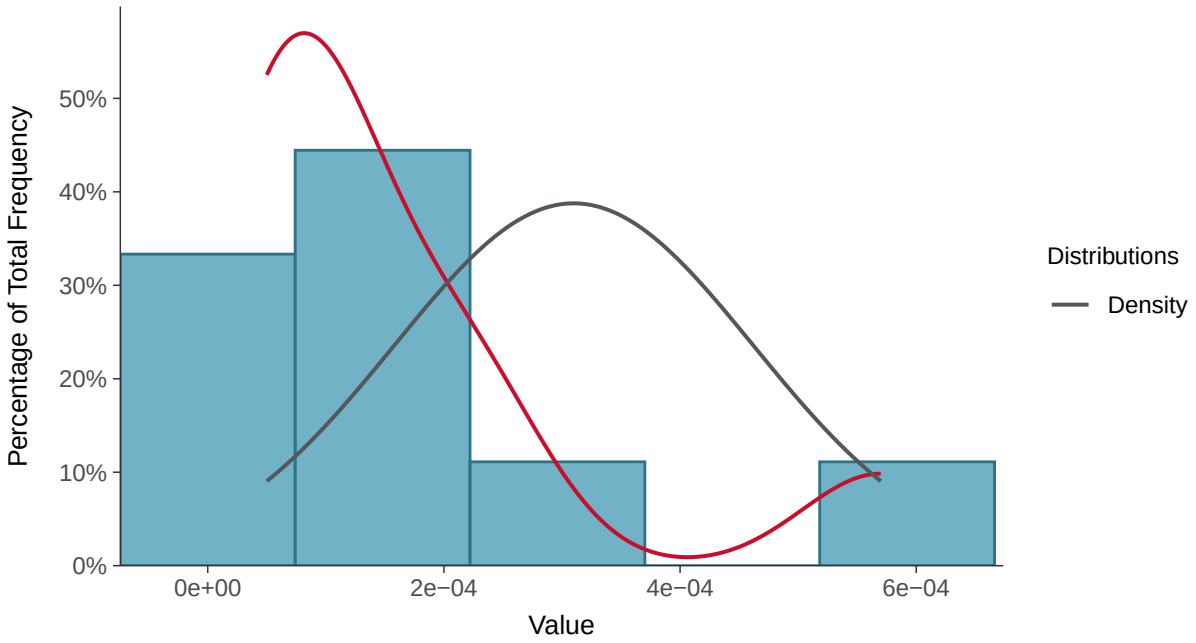
Scatter Plot

Silver, MW-36 (mg/L)



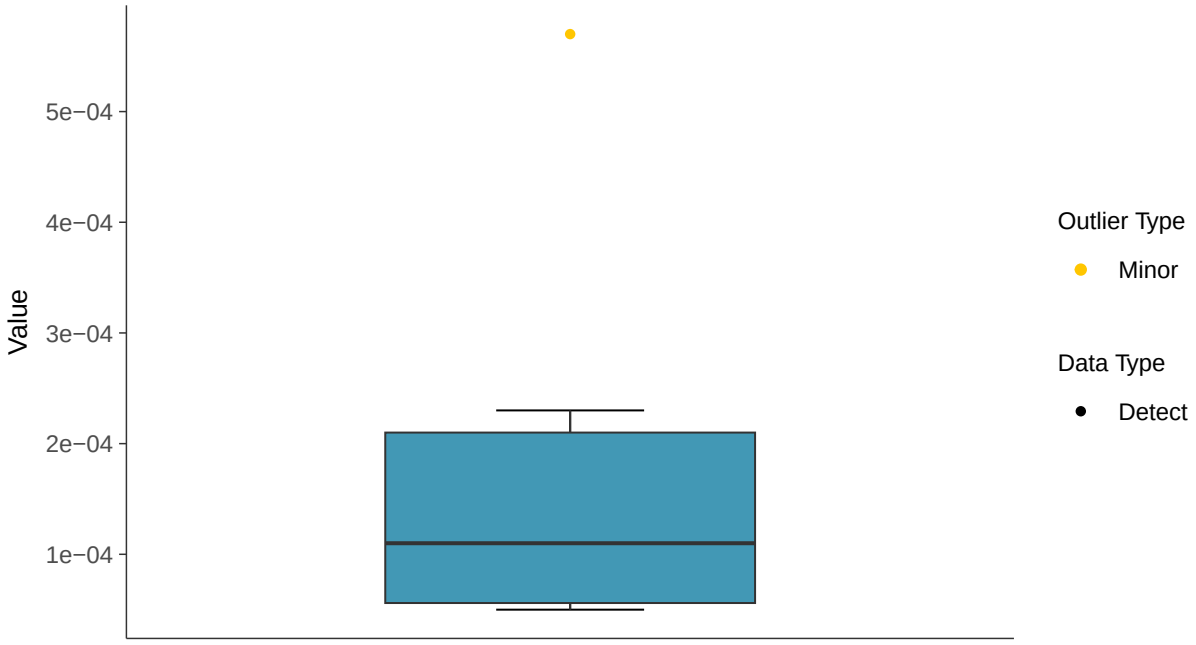
Histogram

Silver, MW-36 (mg/L)



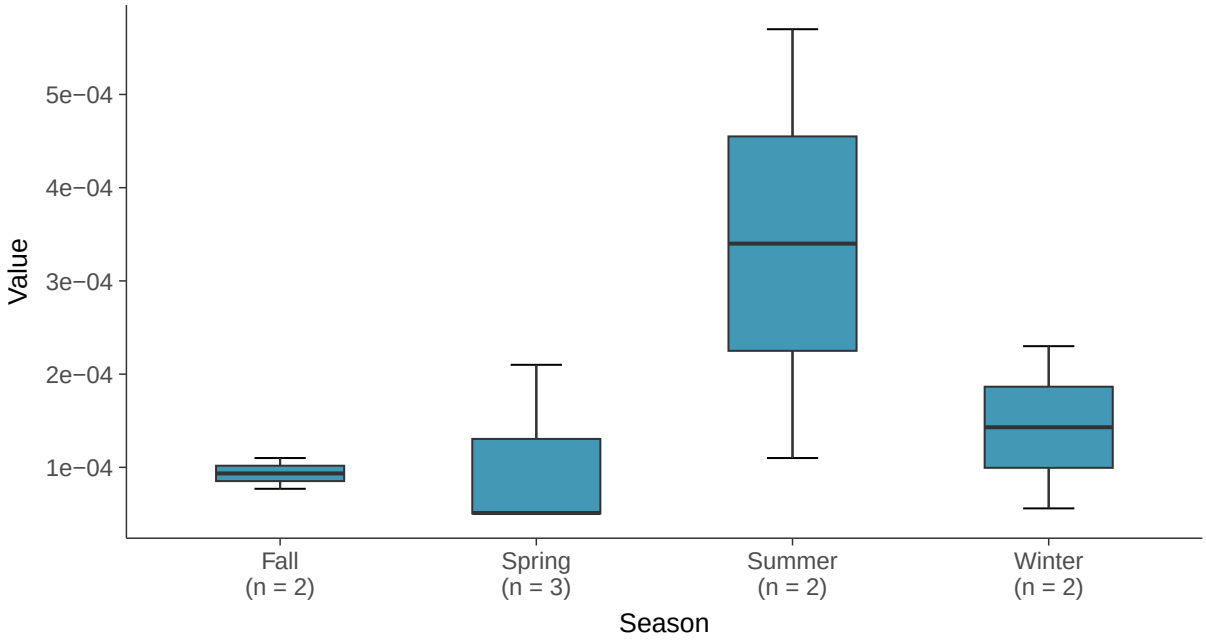
Boxplot

Silver, MW-36 (mg/L)



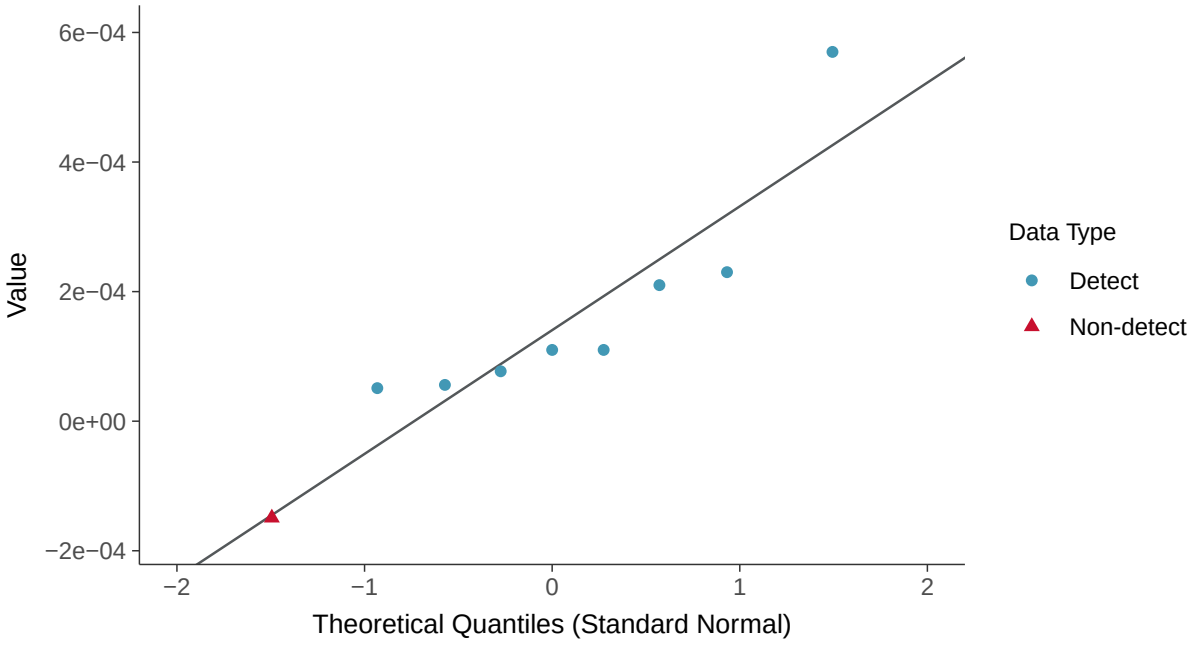
Boxplot by Season

Silver, MW-36 (mg/L)



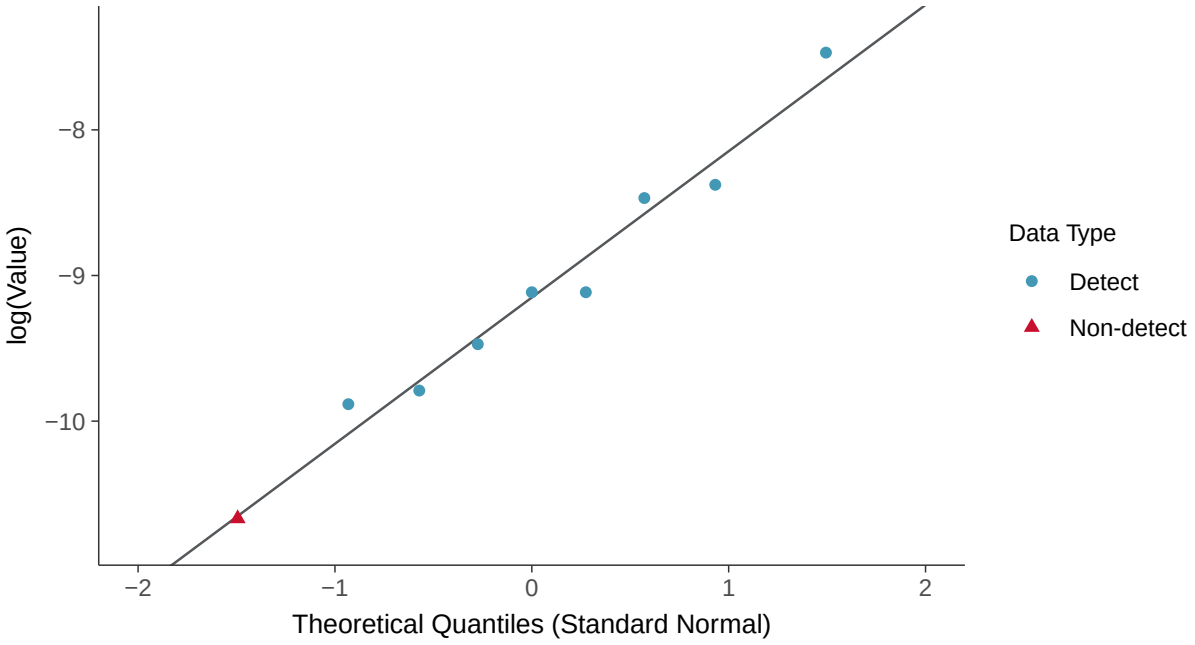
Normal Q-Q plot using ROS Imputed Estimates

Silver, MW-36 (mg/L)



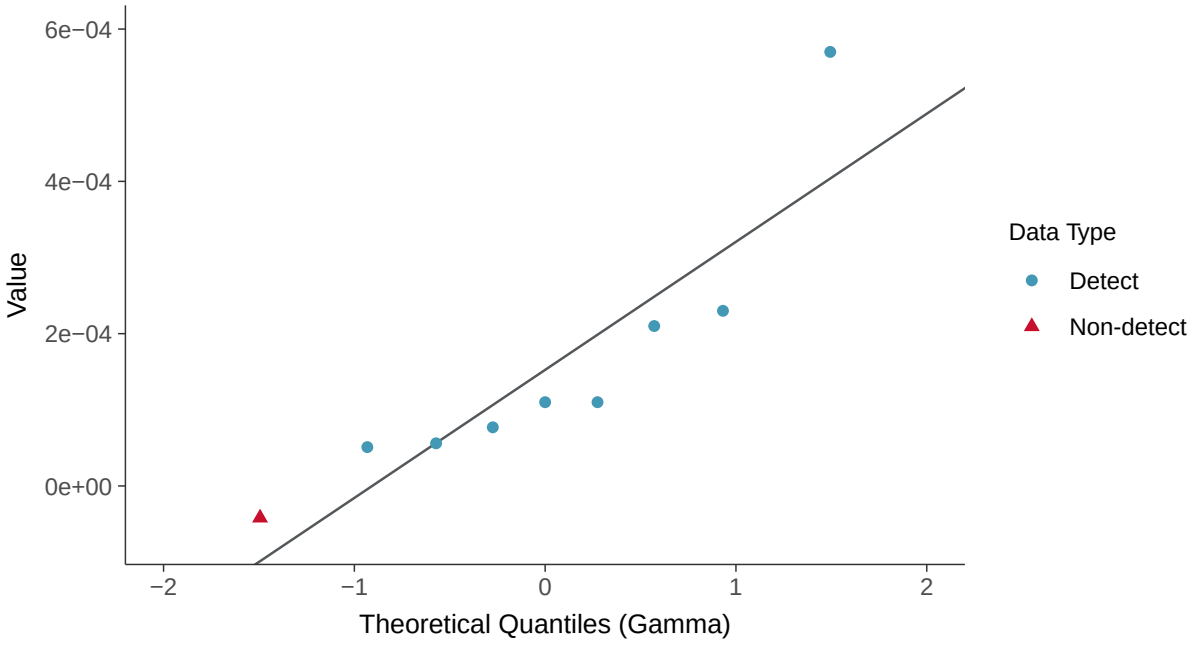
Lognormal Q-Q plot using ROS Imputed Estimates

Silver, MW-36 (mg/L)



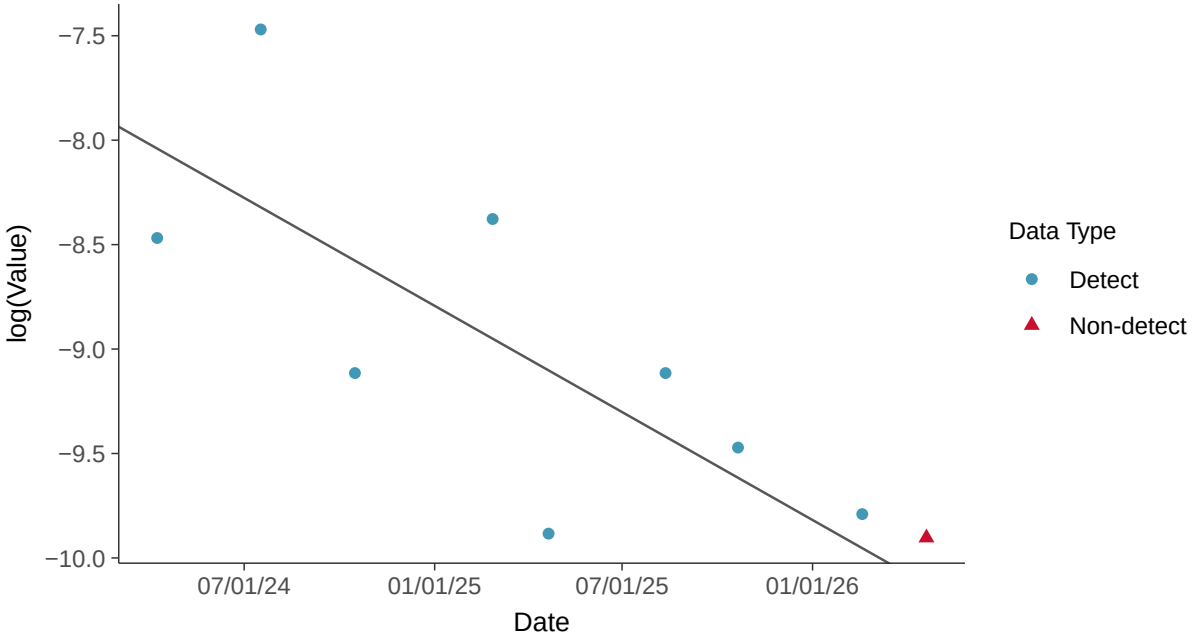
Gamma Q-Q plot using ROS Imputed Estimates

Silver, MW-36 (mg/L)



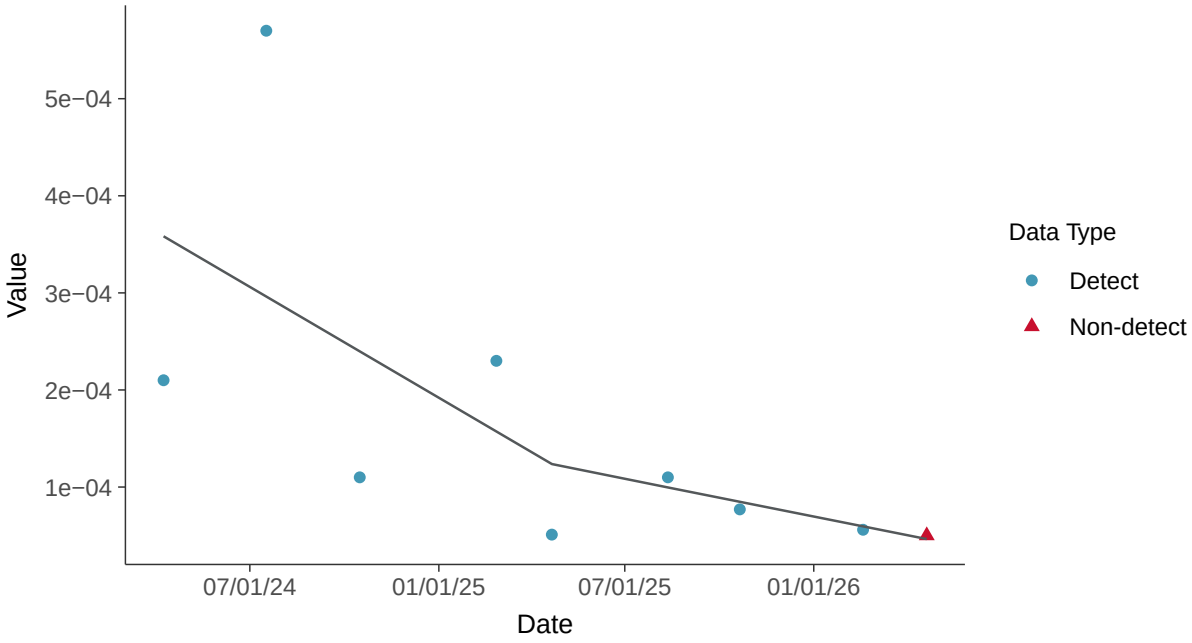
Trend Regression: Lognormal MLE

Silver, MW-36 (mg/L)



Trend Regression: Piecewise Linear-Linear

Silver, MW-36 (mg/L)

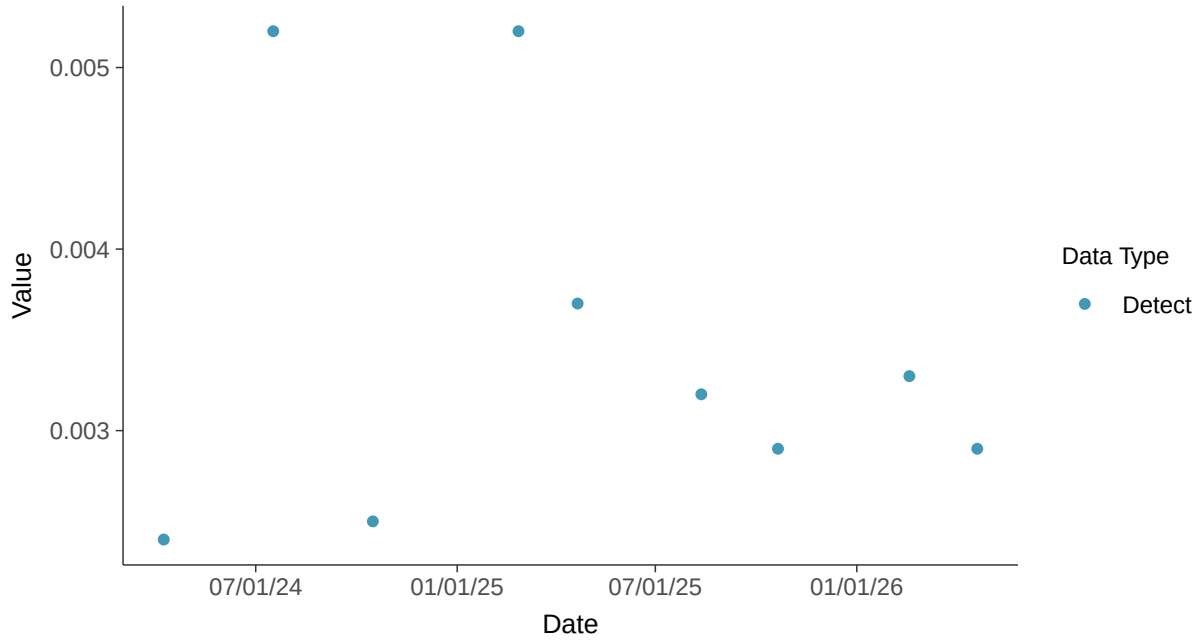


Part 115: Vanadium, MW-36

ID: 46_1_5_128

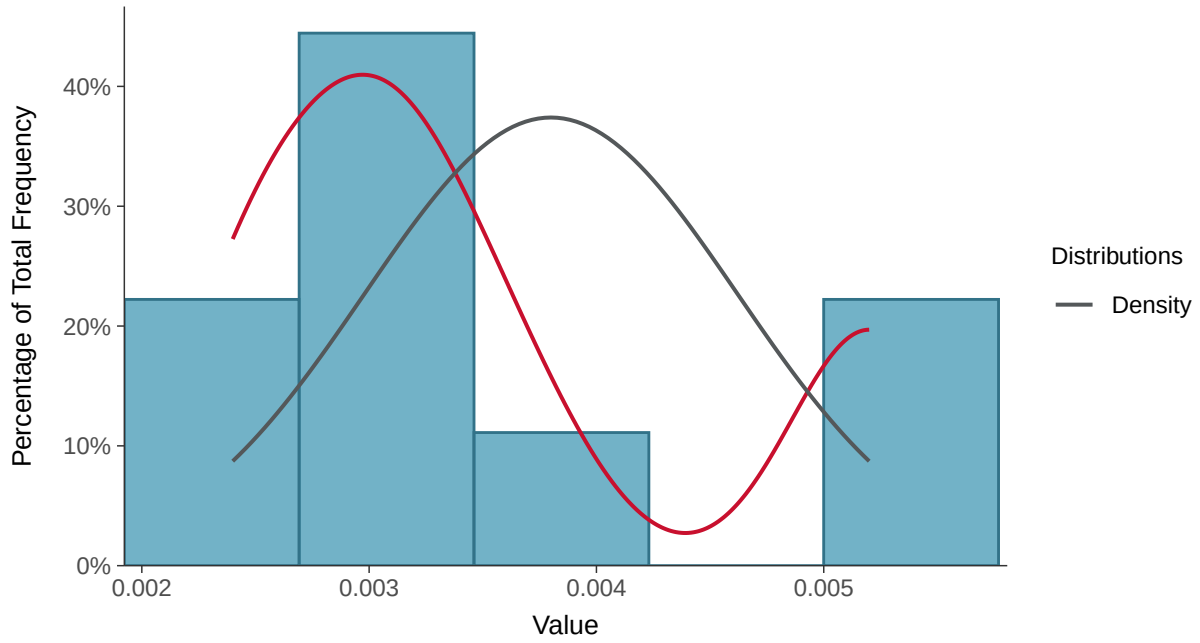
Scatter Plot

Vanadium, MW-36 (mg/L)



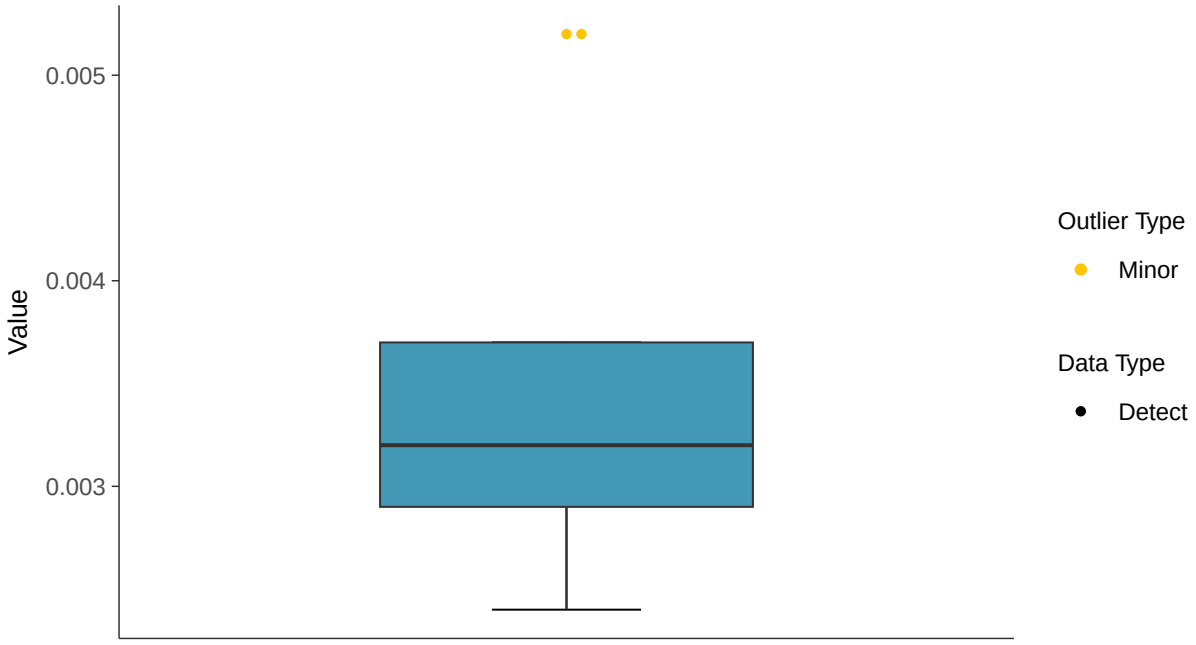
Histogram

Vanadium, MW-36 (mg/L)



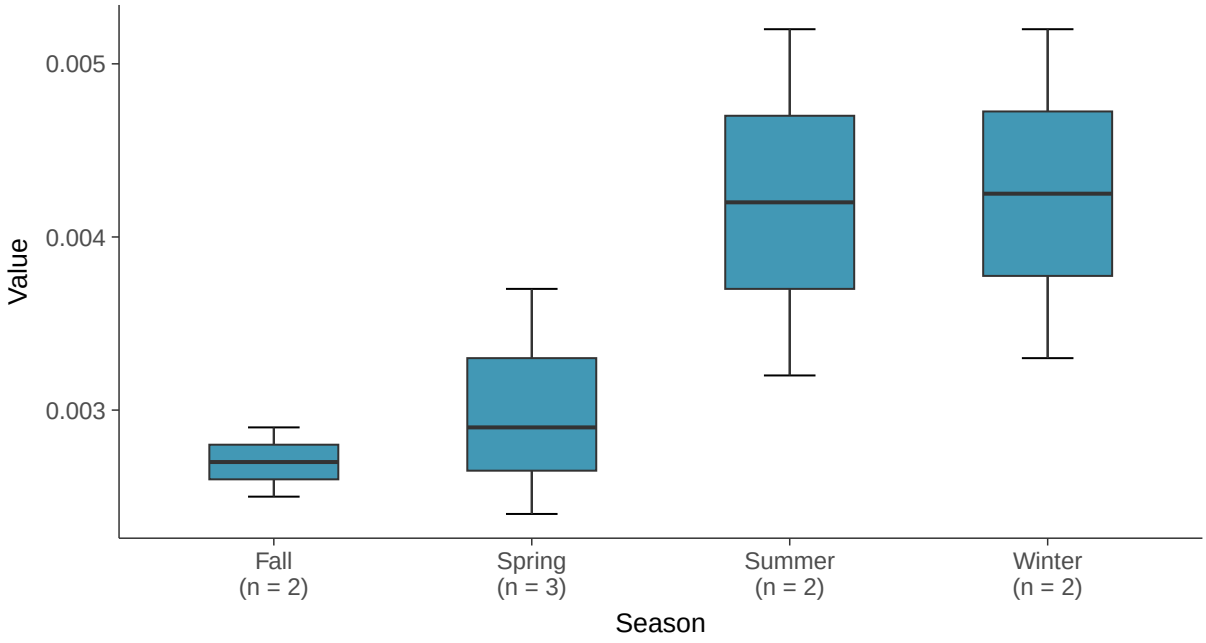
Boxplot

Vanadium, MW-36 (mg/L)



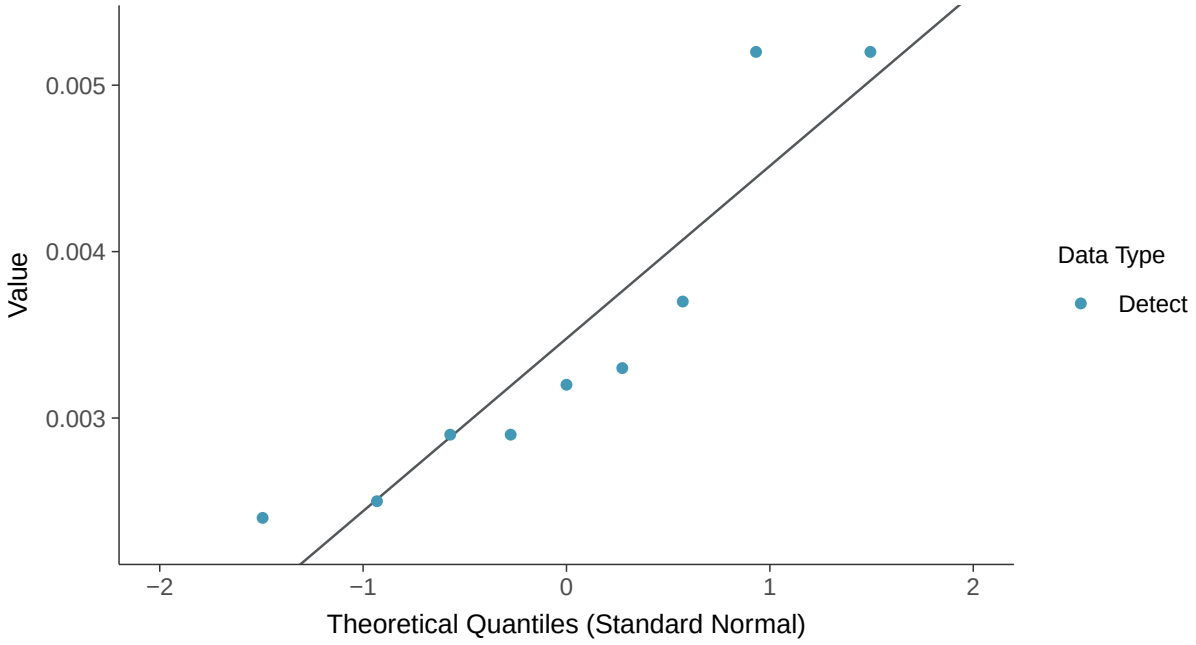
Boxplot by Season

Vanadium, MW-36 (mg/L)



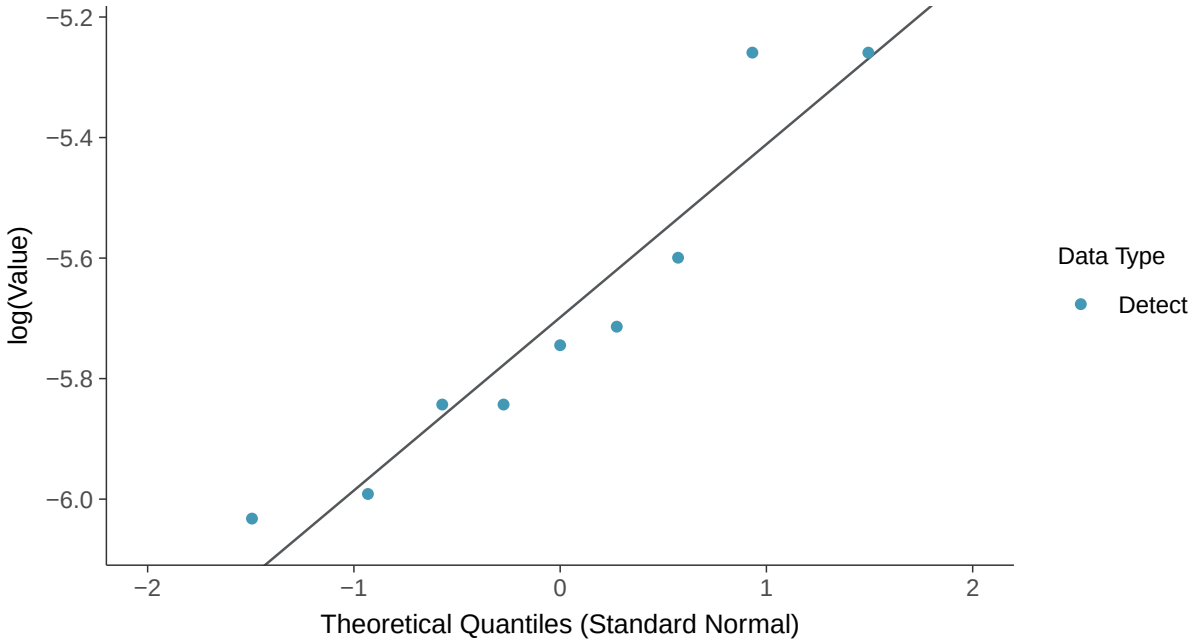
Normal Q-Q plot

Vanadium, MW-36 (mg/L)



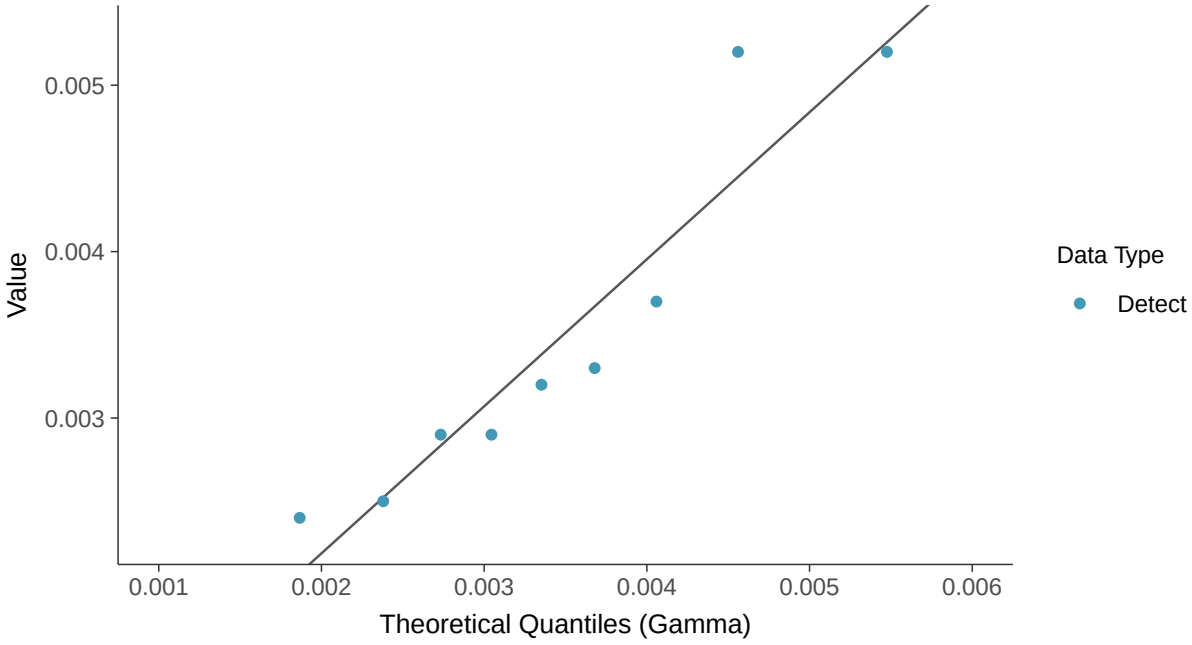
Lognormal Q-Q plot

Vanadium, MW-36 (mg/L)



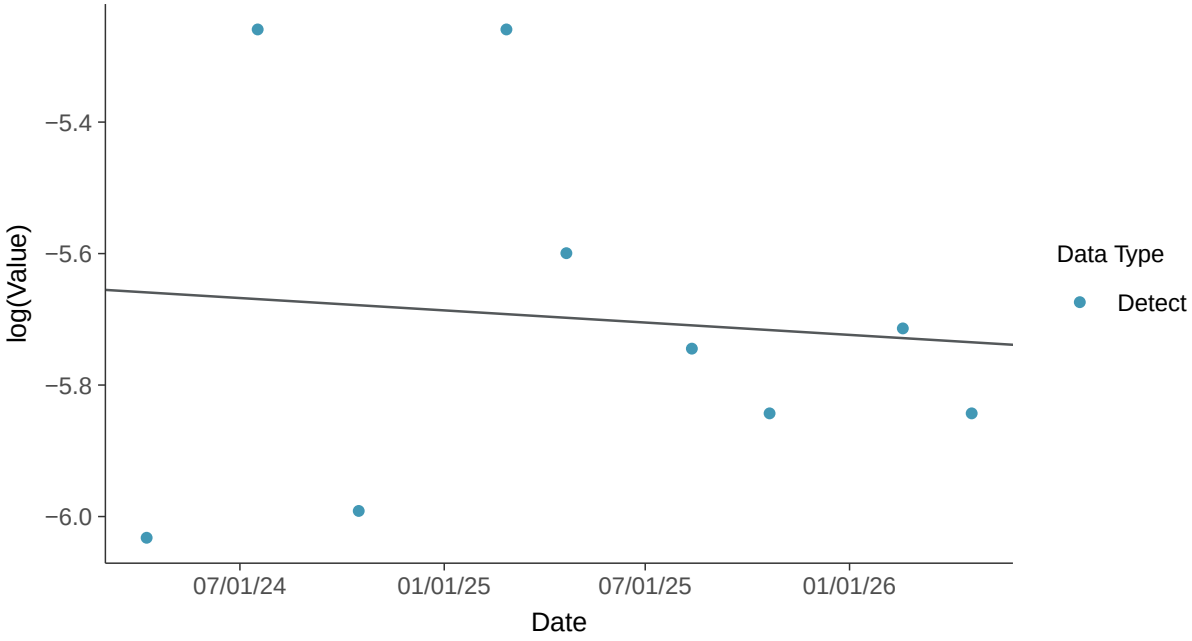
Gamma Q-Q plot

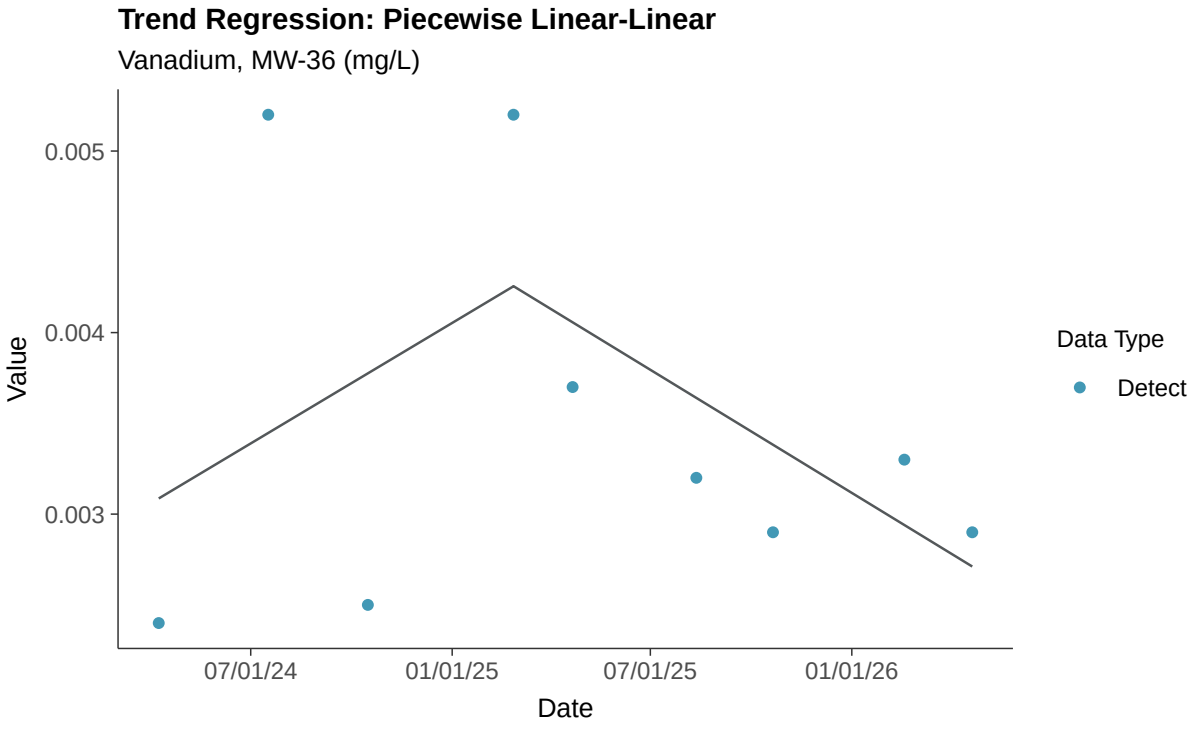
Vanadium, MW-36 (mg/L)



Trend Regression: Lognormal MLE

Vanadium, MW-36 (mg/L)



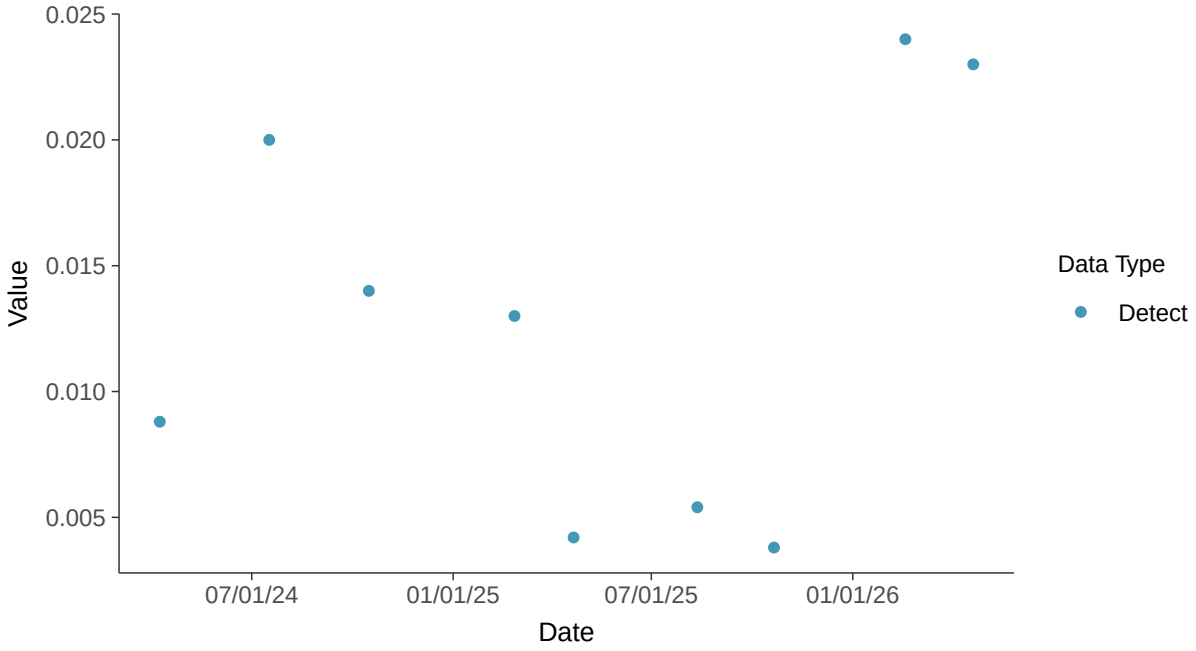

Trend Regression: Piecewise Linear-Linear
Vanadium, MW-36 (mg/L)
0.005
0.004
0.003
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Part 115: Zinc, MW-36

ID: 46_1_5_129

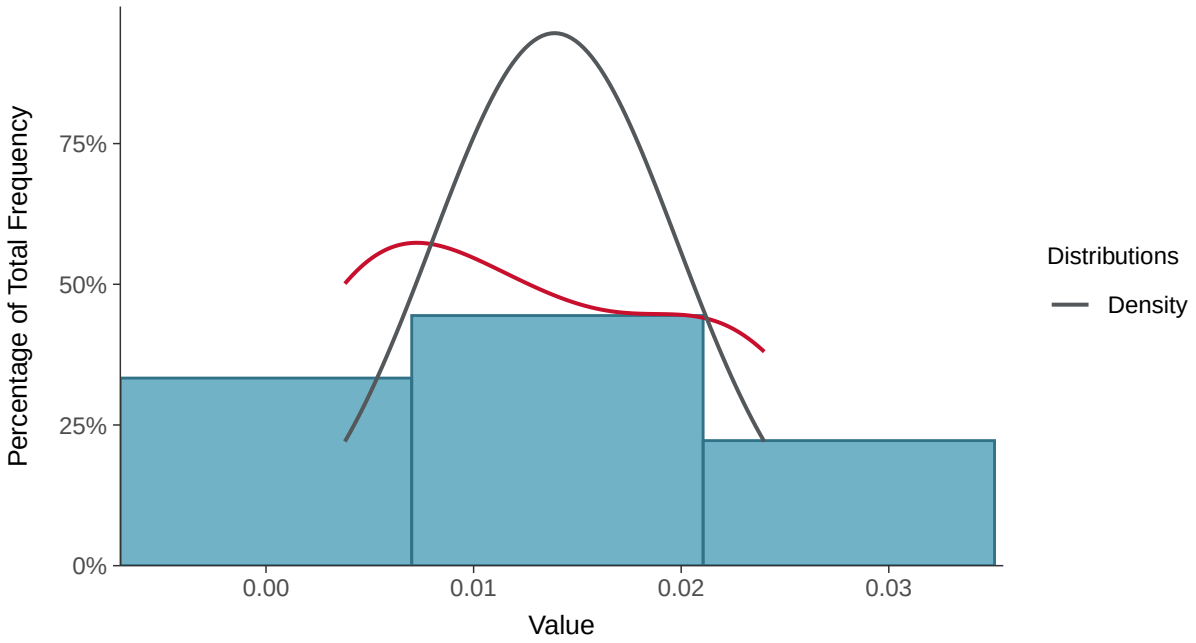
Scatter Plot

Zinc, MW-36 (mg/L)



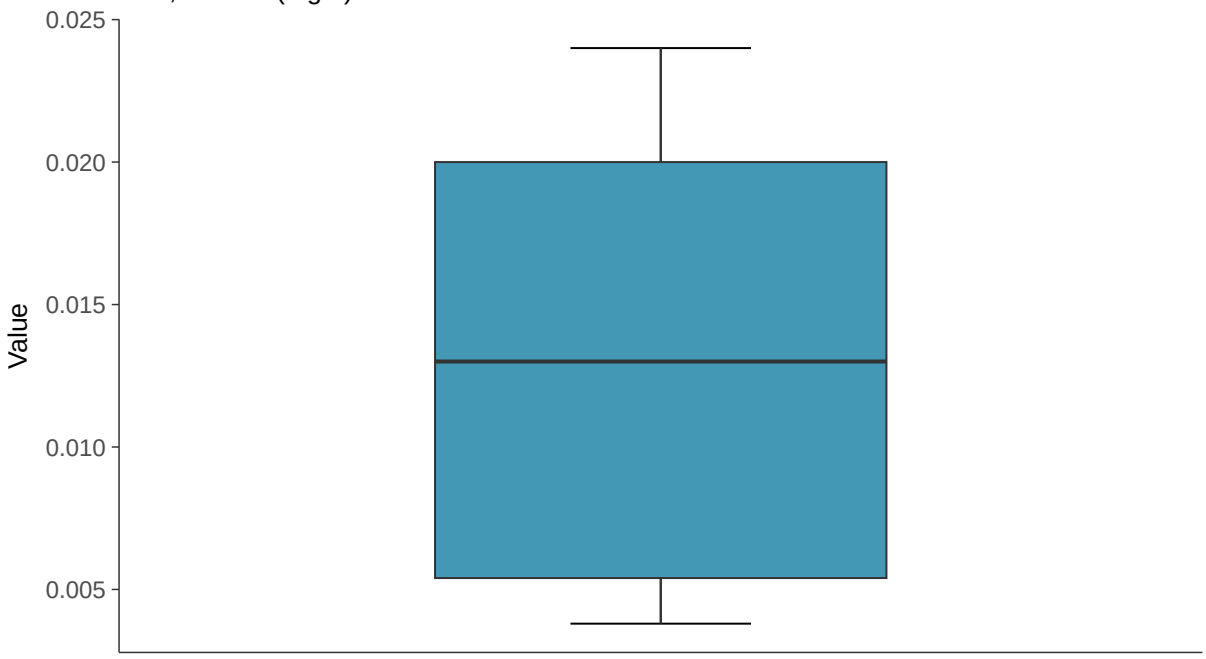
Histogram

Zinc, MW-36 (mg/L)



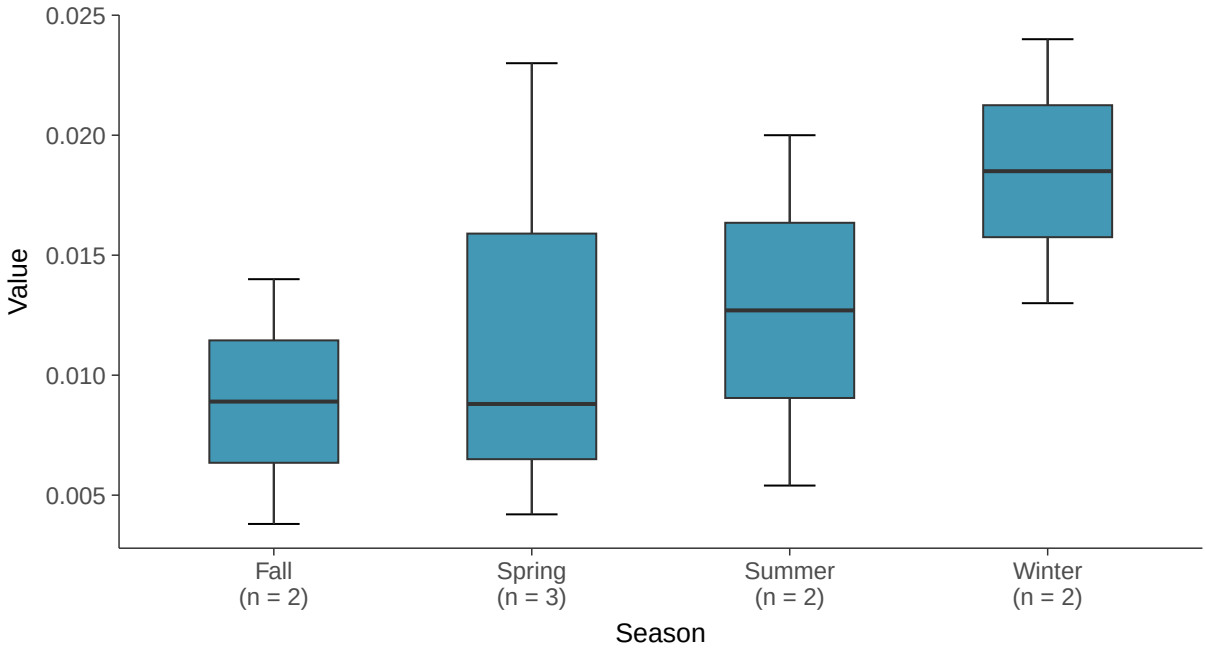
Boxplot

Zinc, MW-36 (mg/L)



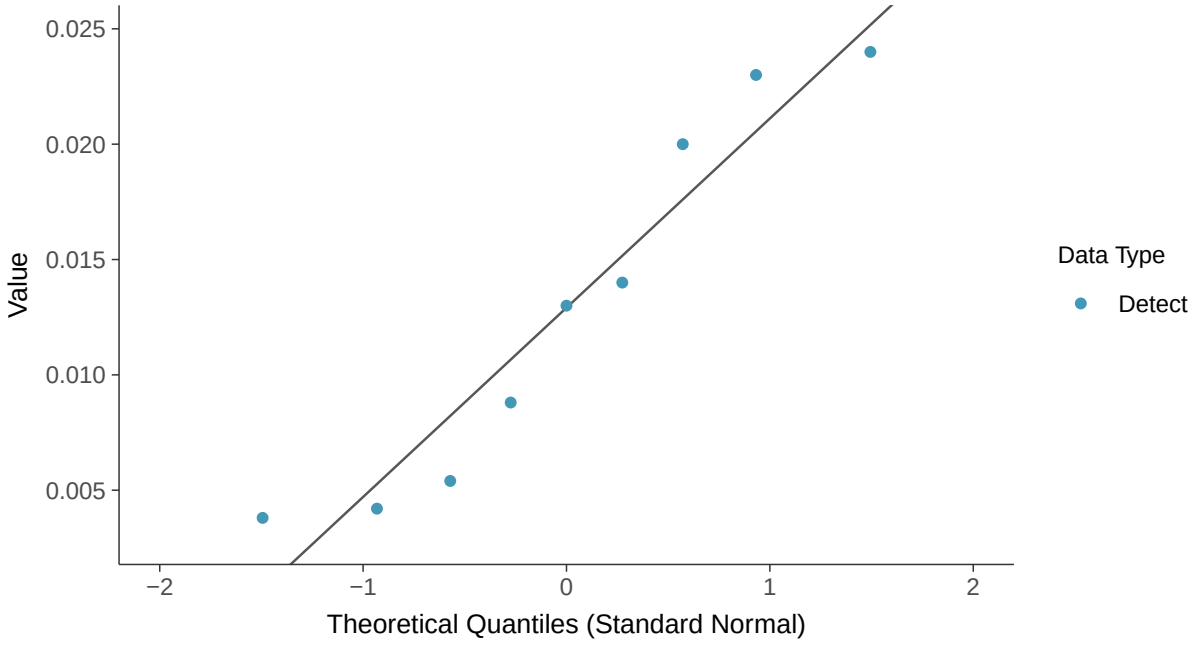
Boxplot by Season

Zinc, MW-36 (mg/L)



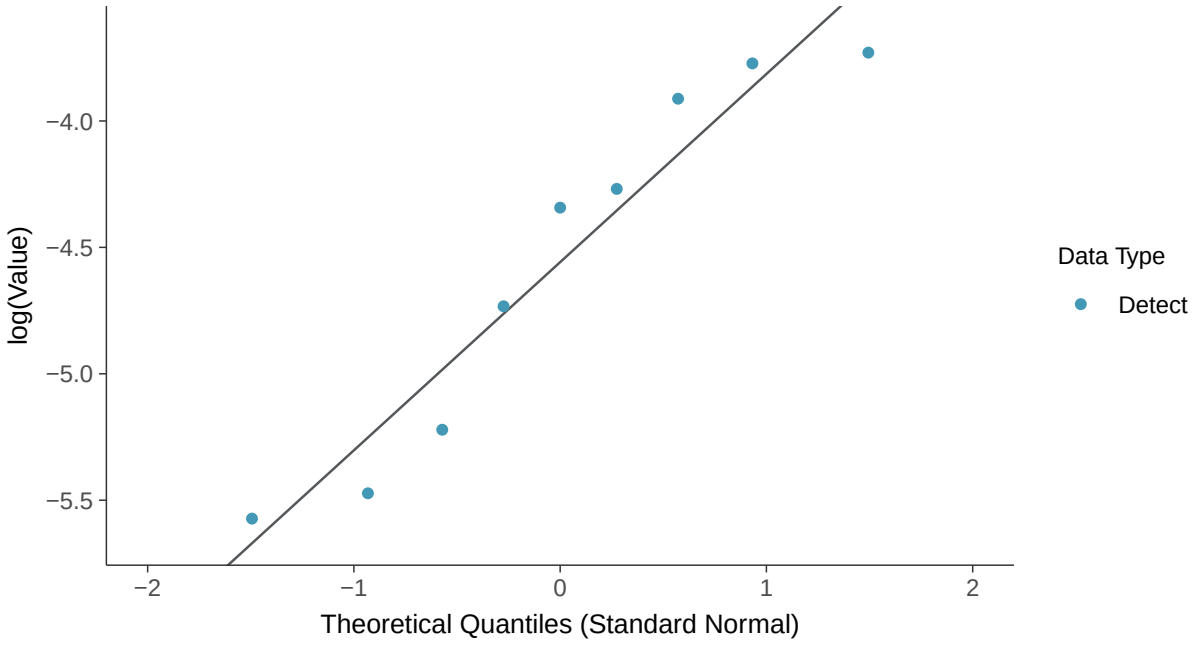
Normal Q-Q plot

Zinc, MW-36 (mg/L)



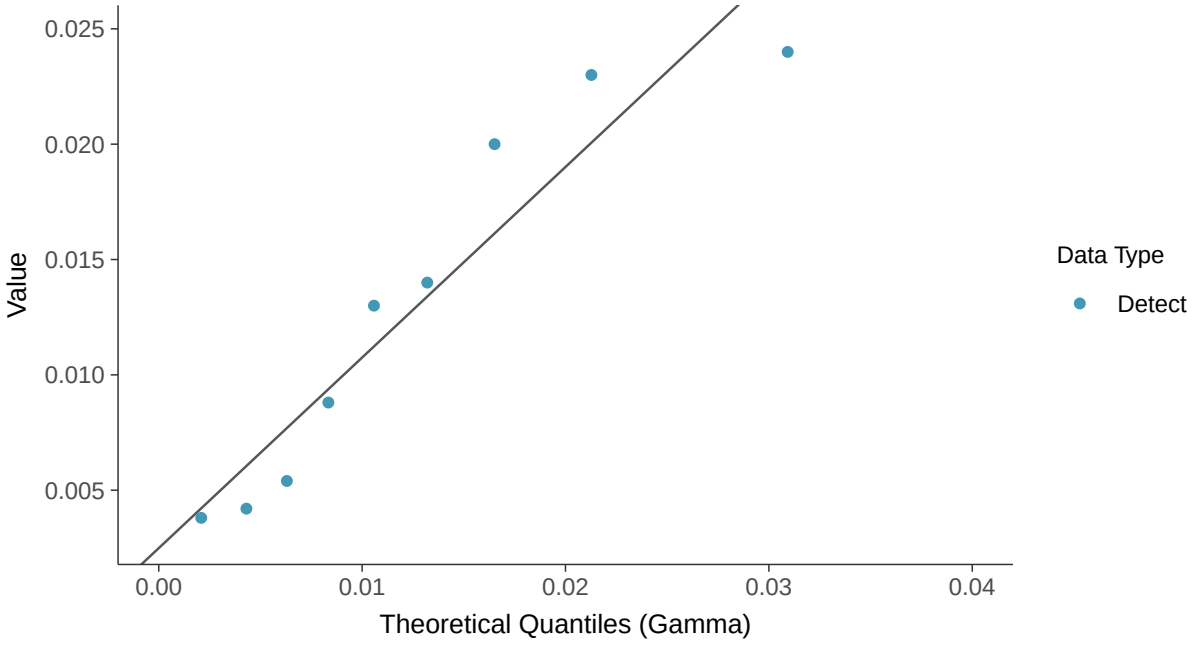
Lognormal Q-Q plot

Zinc, MW-36 (mg/L)



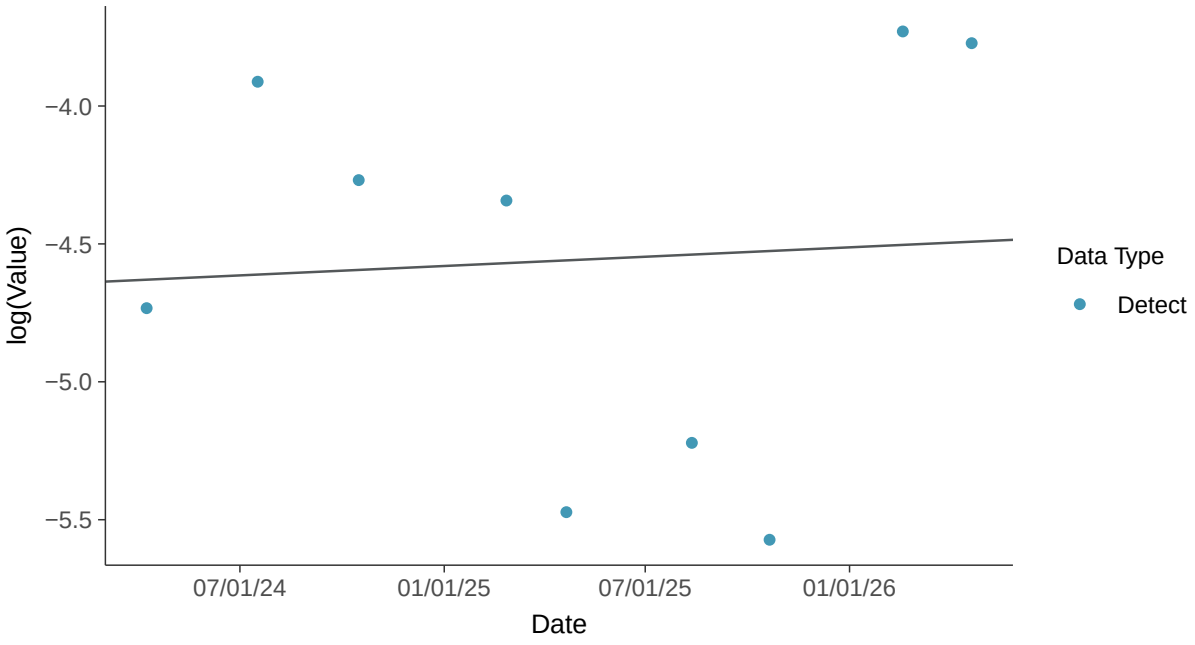
Gamma Q-Q plot

Zinc, MW-36 (mg/L)



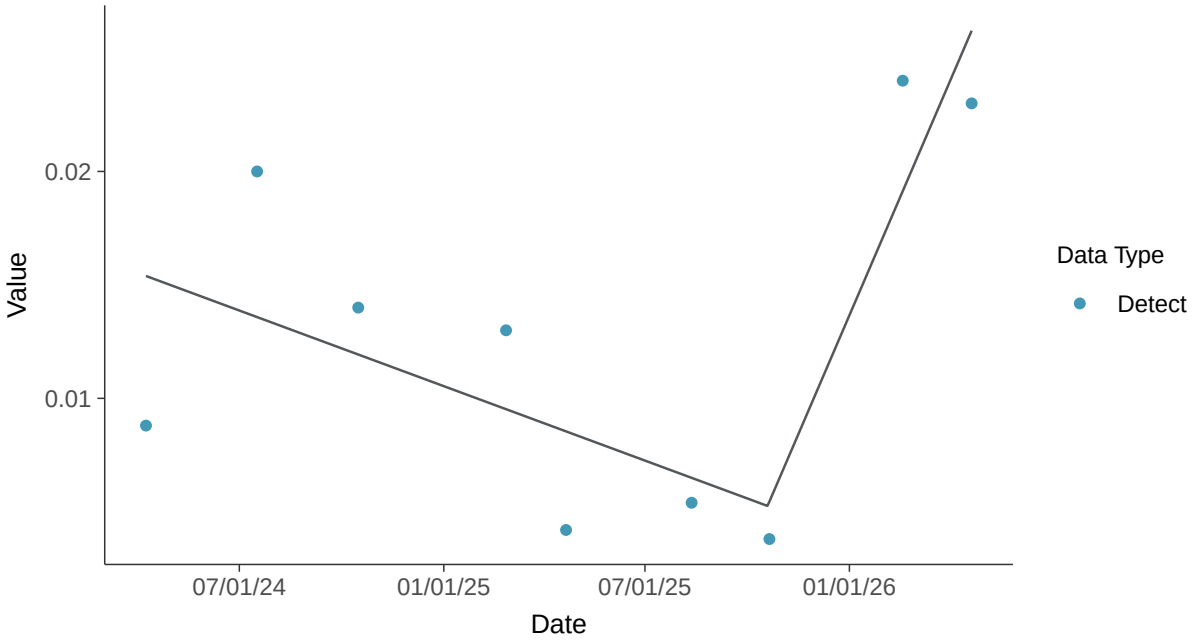
Trend Regression: Lognormal MLE

Zinc, MW-36 (mg/L)



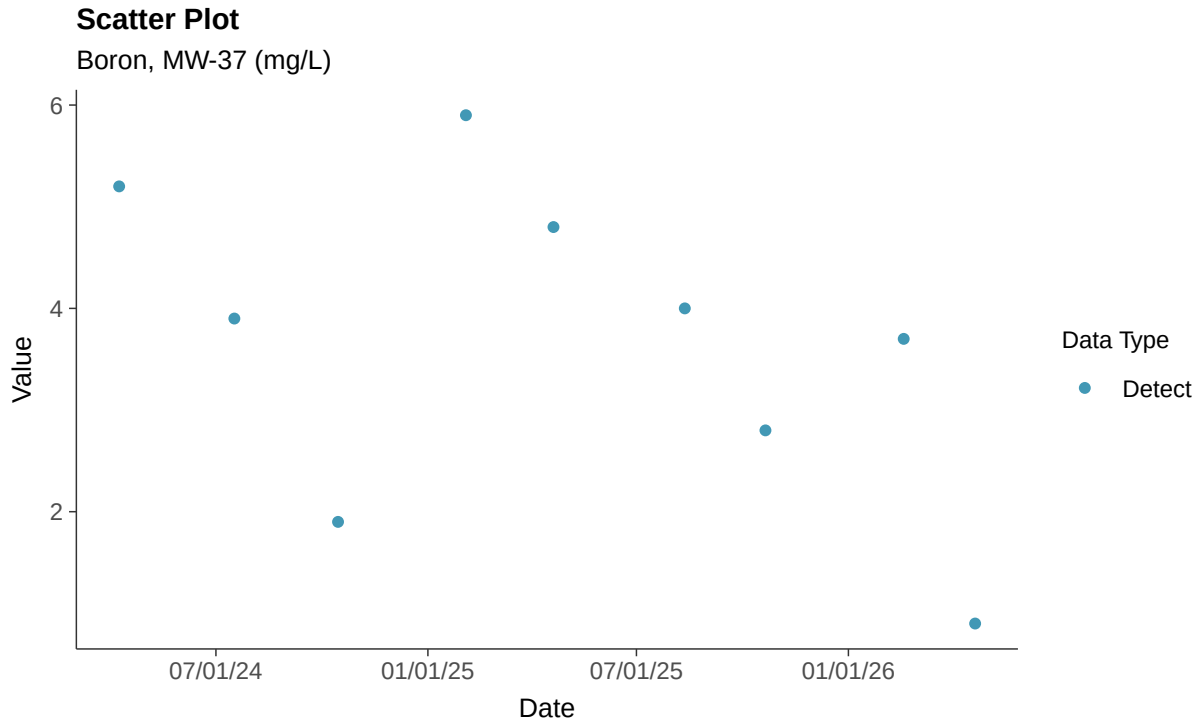
Trend Regression: Piecewise Linear-Linear

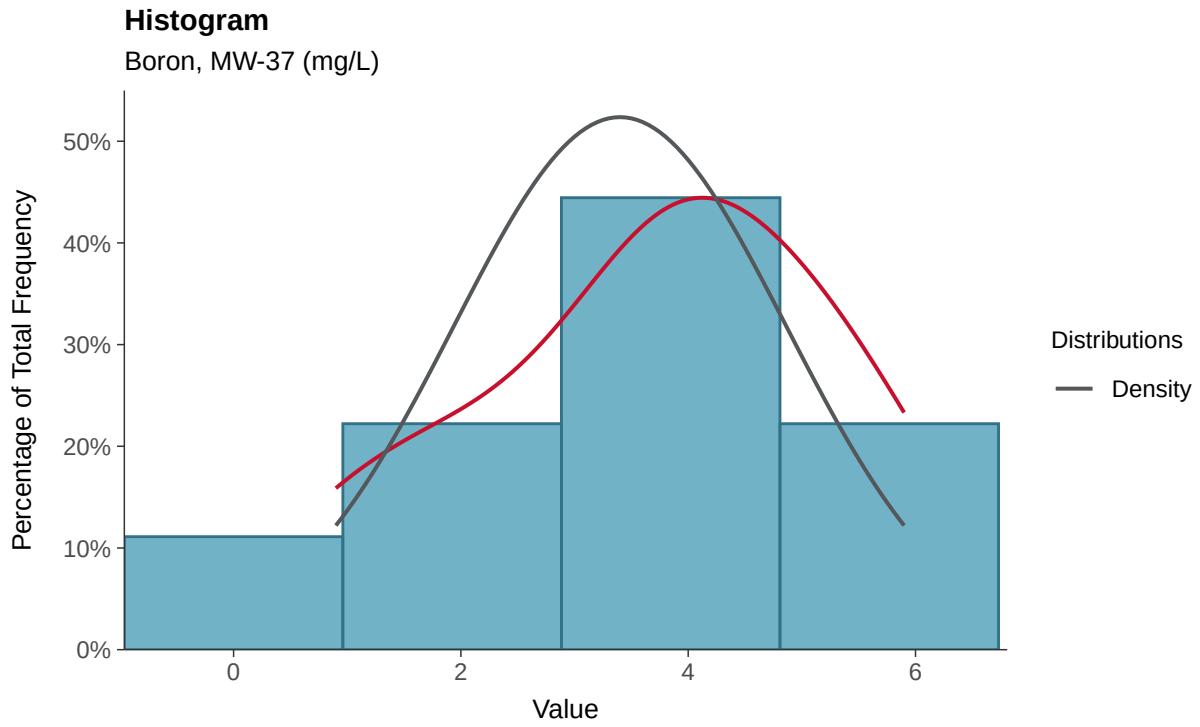
Zinc, MW-36 (mg/L)



Appendix III: Boron, MW-37

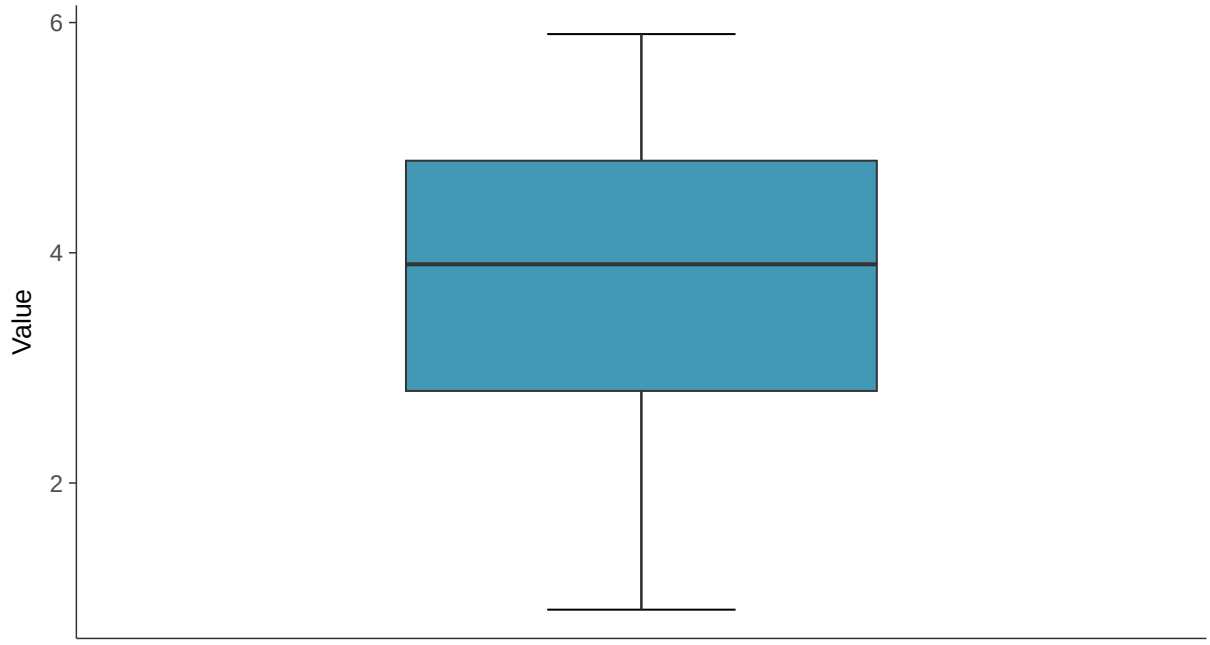
ID: 47_1_3_105





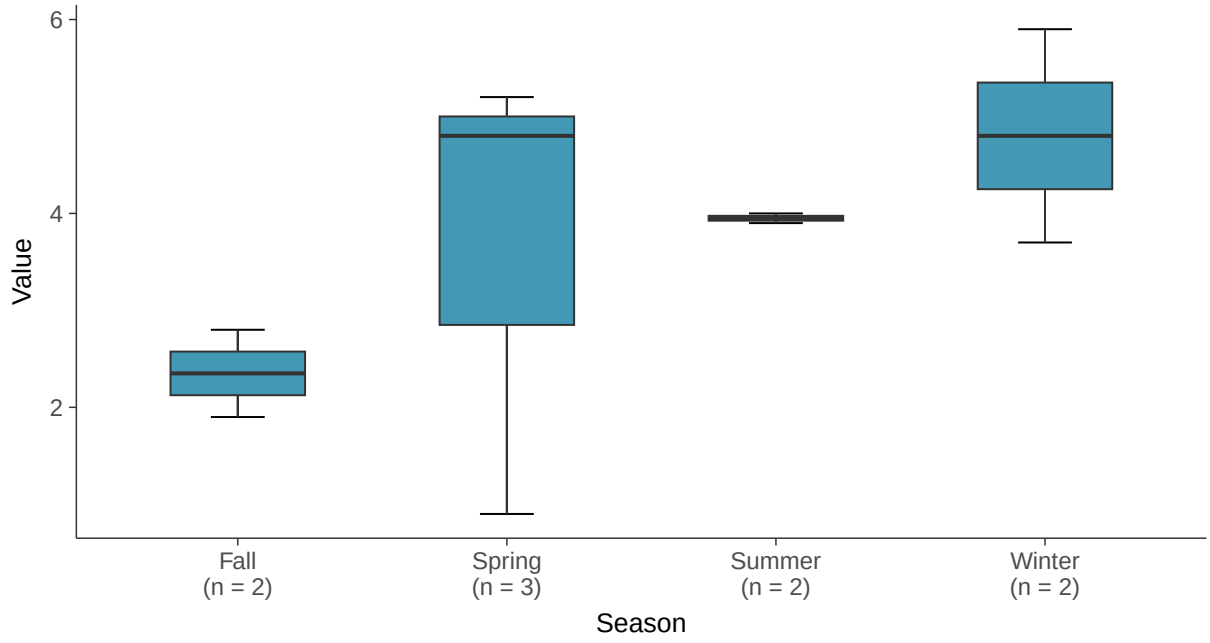
Boxplot

Boron, MW-37 (mg/L)



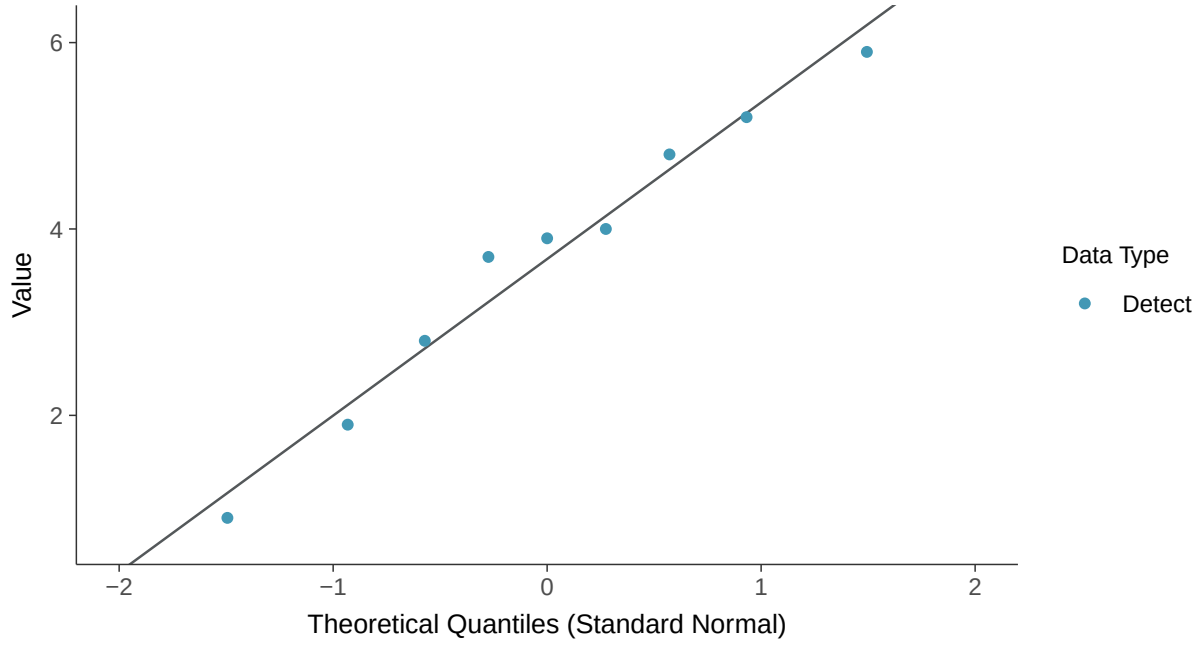
Boxplot by Season

Boron, MW-37 (mg/L)



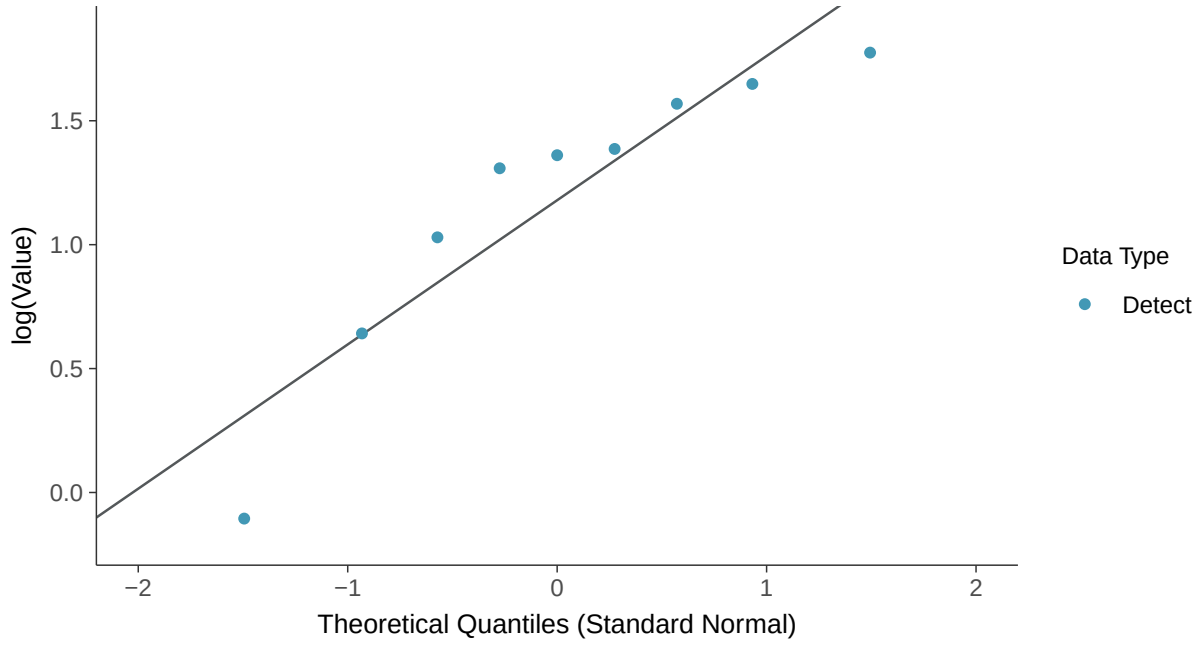
Normal Q-Q plot

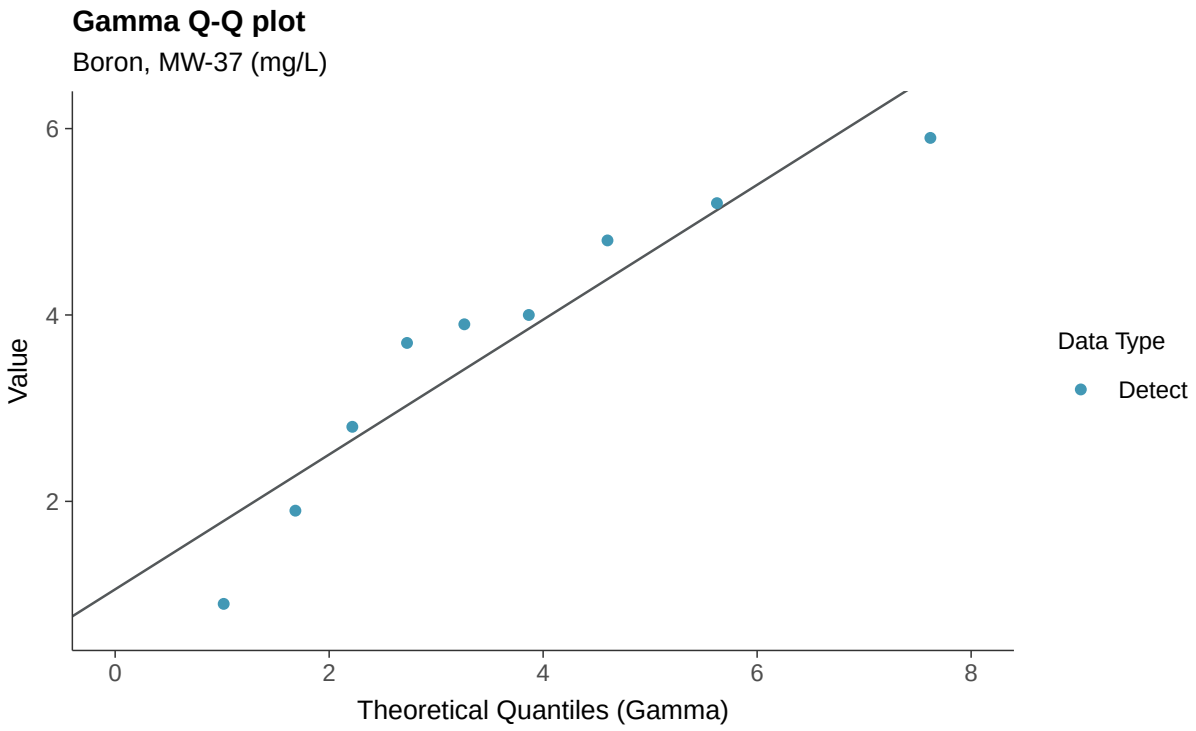
Boron, MW-37 (mg/L)

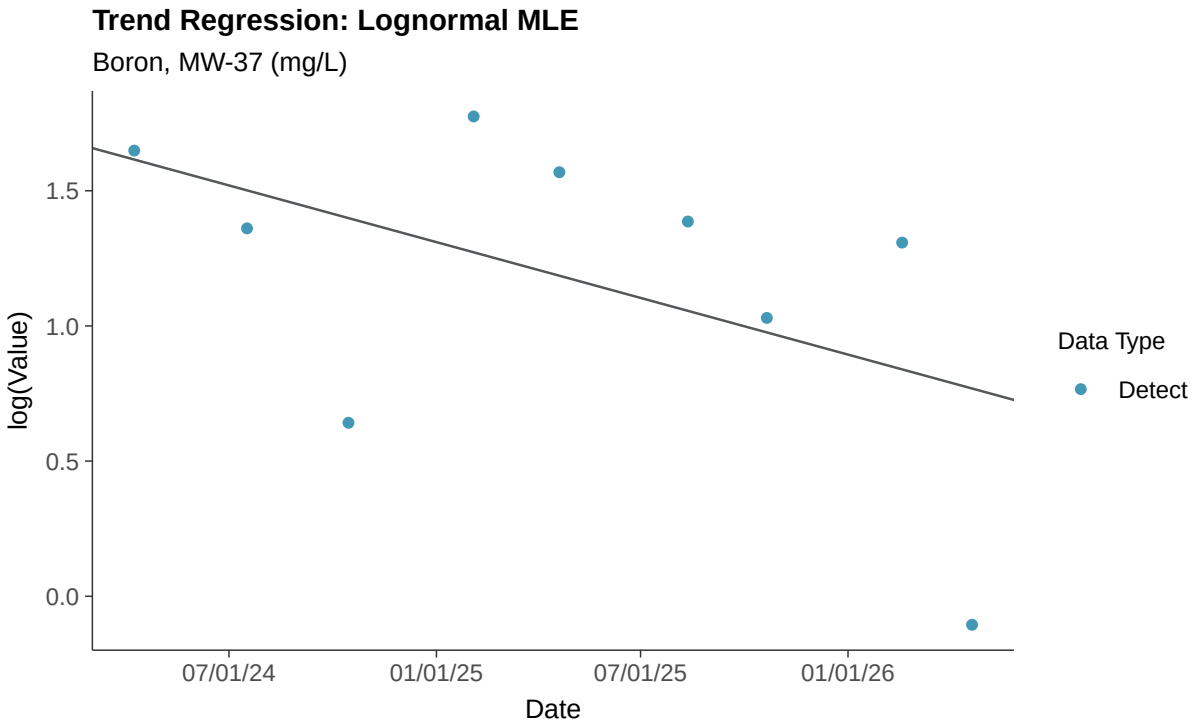


Lognormal Q-Q plot

Boron, MW-37 (mg/L)

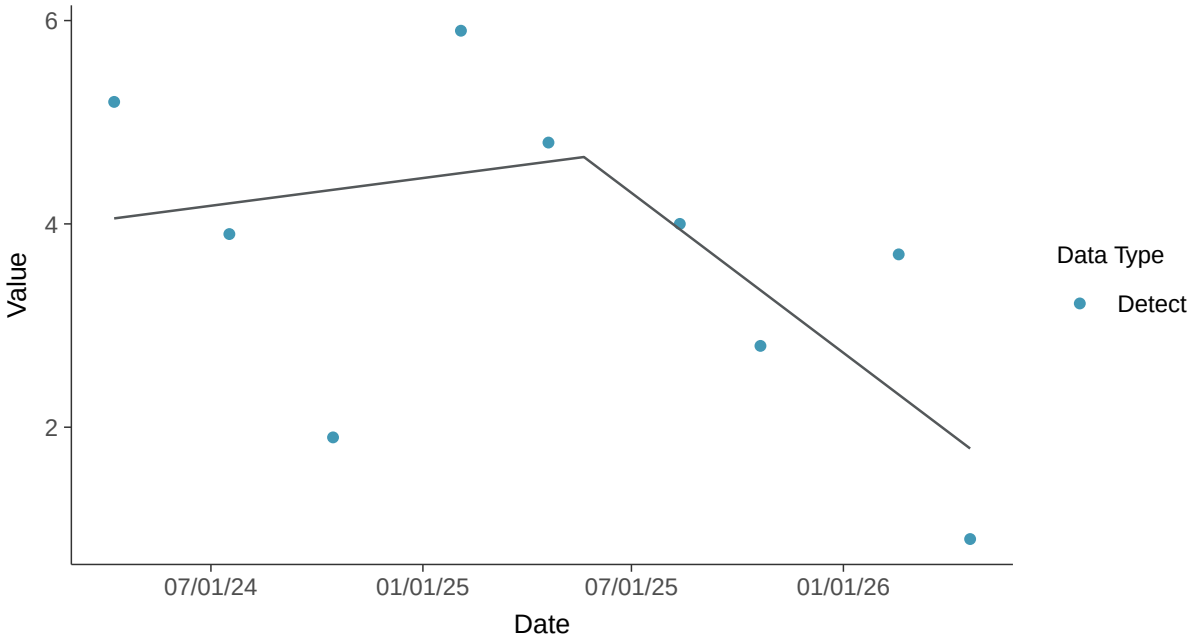



Gamma Q-Q plot
Boron, MW-37 (mg/L)
Value
6
4
2
0
2
4
6
8
Theoretical Quantiles (Gamma)
Data Type
Detect


Trend Regression: Lognormal MLE
Boron, MW-37 (mg/L)
log(Value)
1.5
1.0
0.5
0.0
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

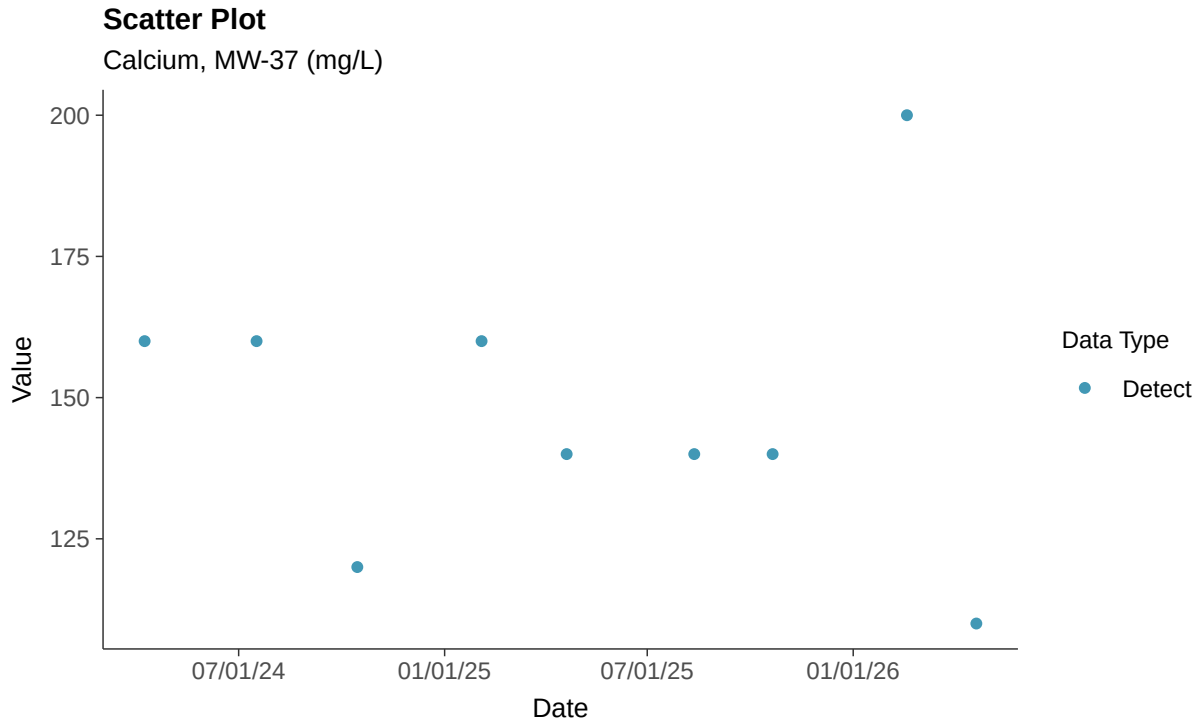
Trend Regression: Piecewise Linear-Linear

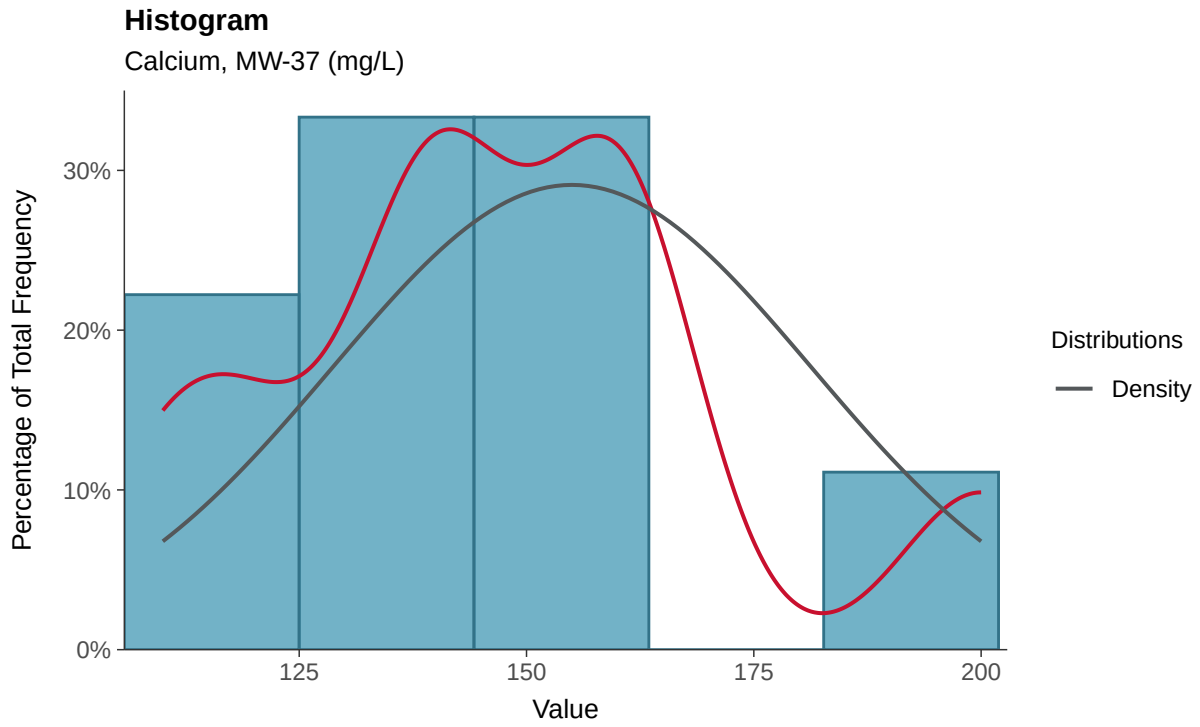
Boron, MW-37 (mg/L)



Appendix III: Calcium, MW-37

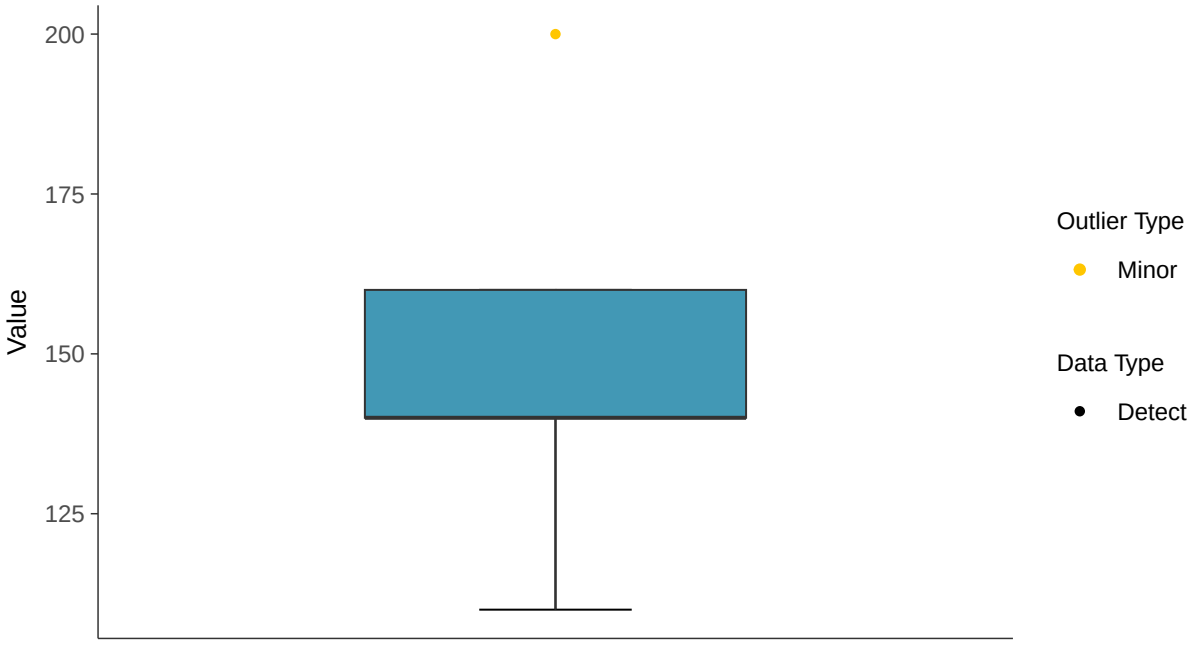
ID: 47_1_3_107





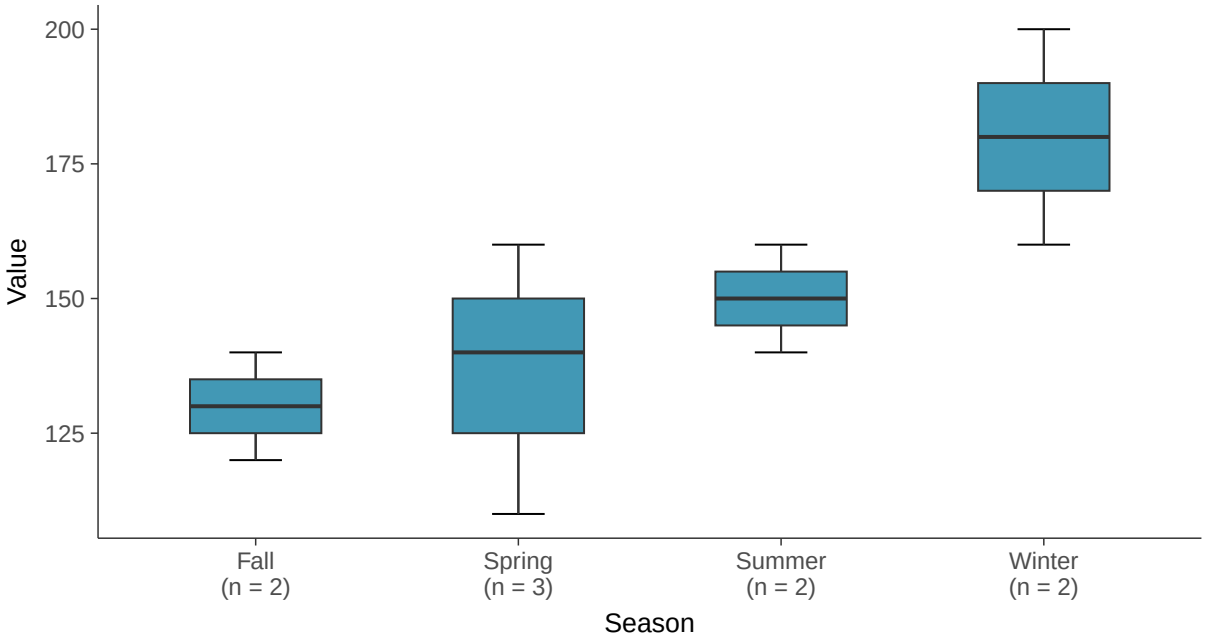
Boxplot

Calcium, MW-37 (mg/L)



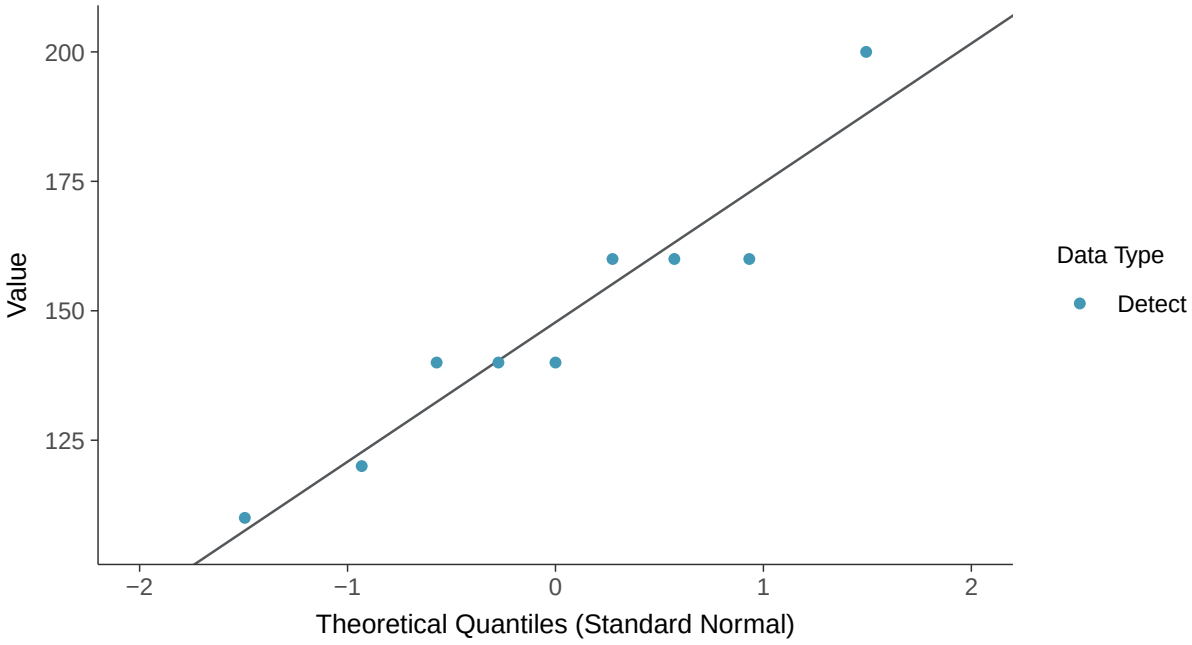
Boxplot by Season

Calcium, MW-37 (mg/L)



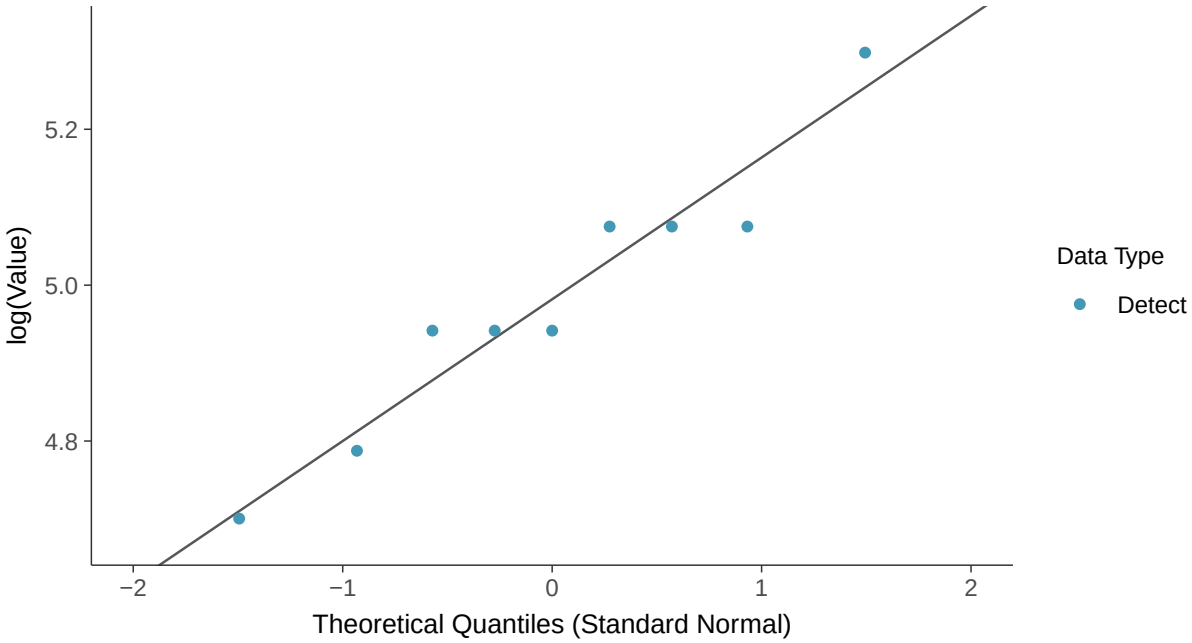
Normal Q-Q plot

Calcium, MW-37 (mg/L)



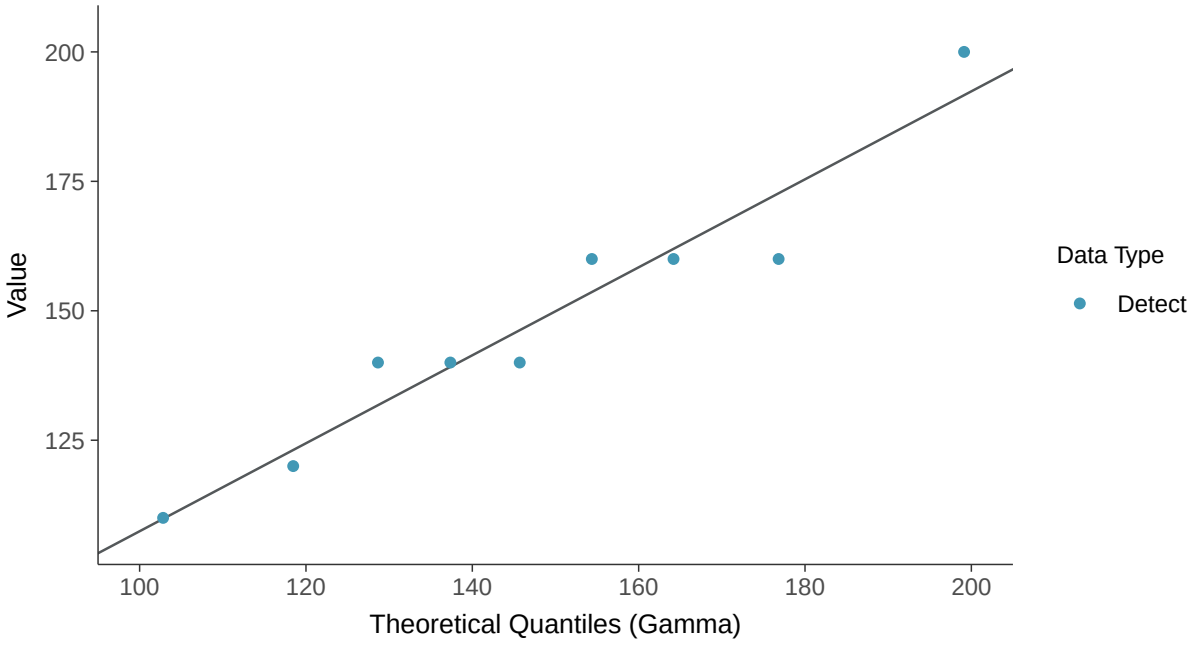
Lognormal Q-Q plot

Calcium, MW-37 (mg/L)



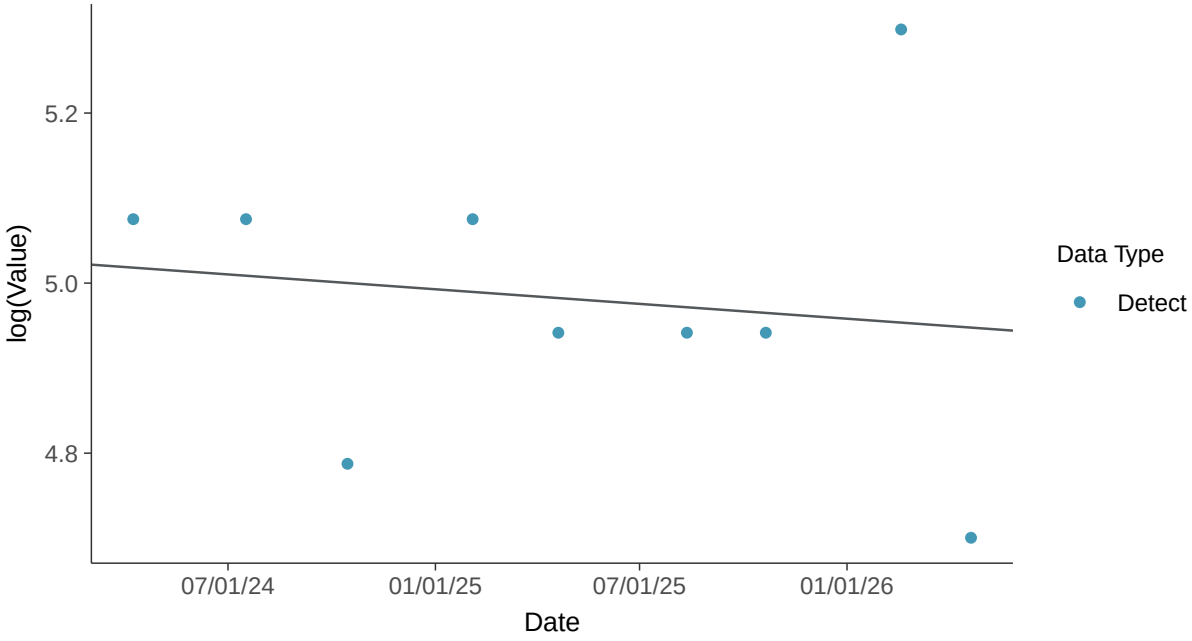
Gamma Q-Q plot

Calcium, MW-37 (mg/L)



Trend Regression: Lognormal MLE

Calcium, MW-37 (mg/L)

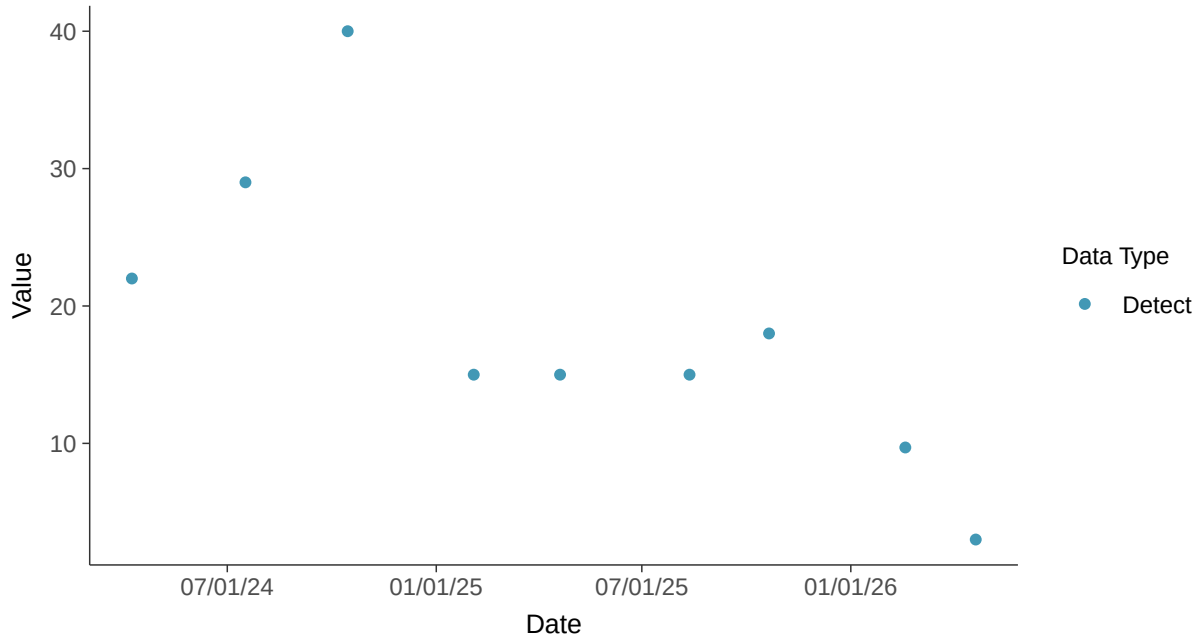


Appendix III: Chloride (as Cl), MW-37

ID: 47_1_3_108

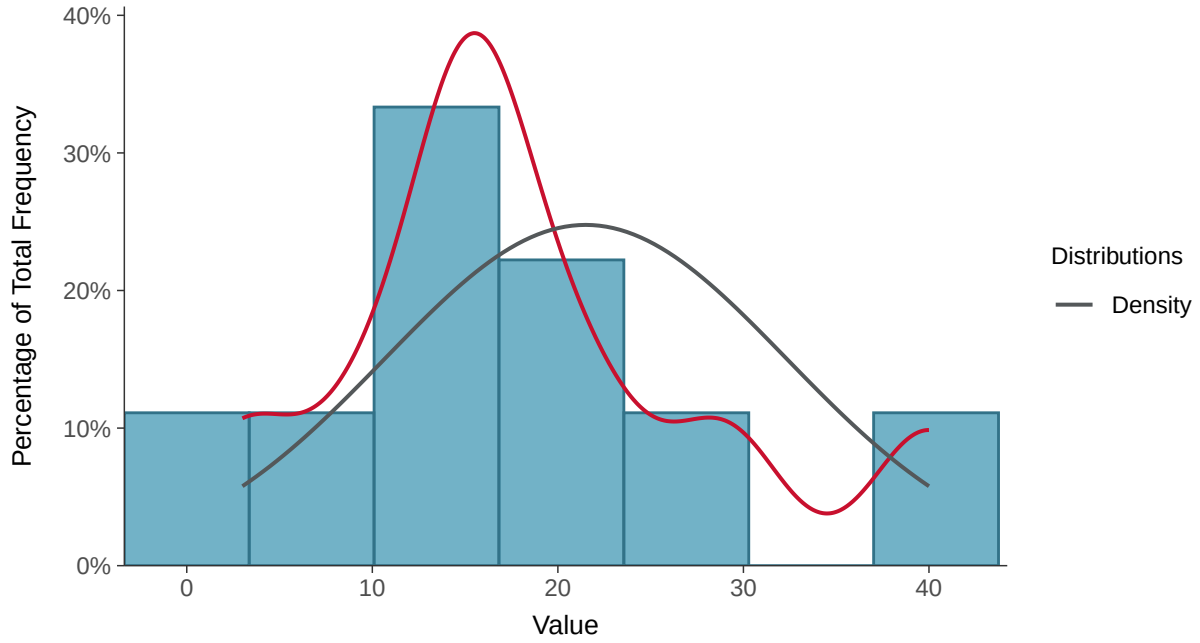
Scatter Plot

Chloride (as Cl), MW-37 (mg/L)



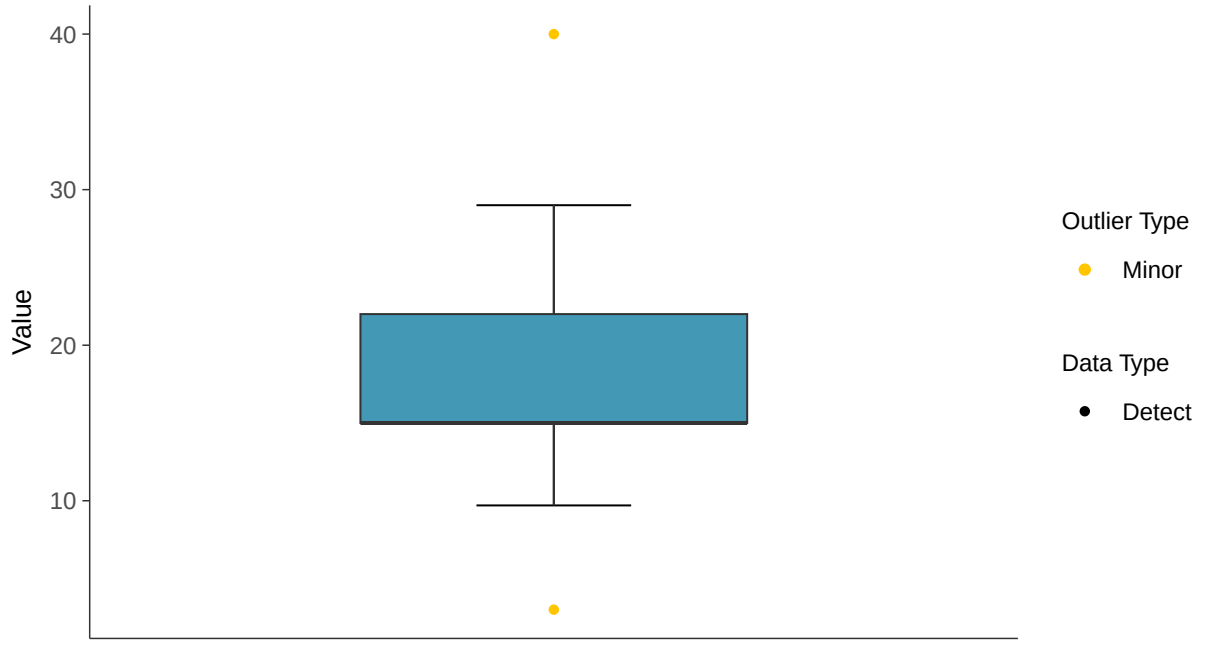
Histogram

Chloride (as Cl), MW-37 (mg/L)



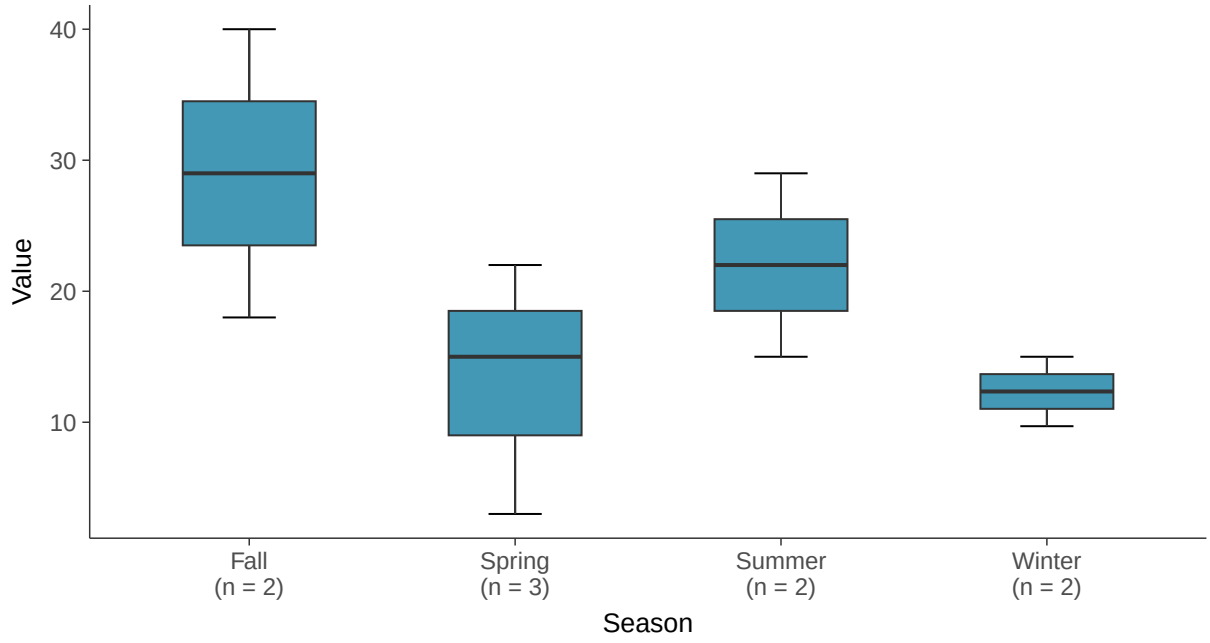
Boxplot

Chloride (as Cl), MW-37 (mg/L)



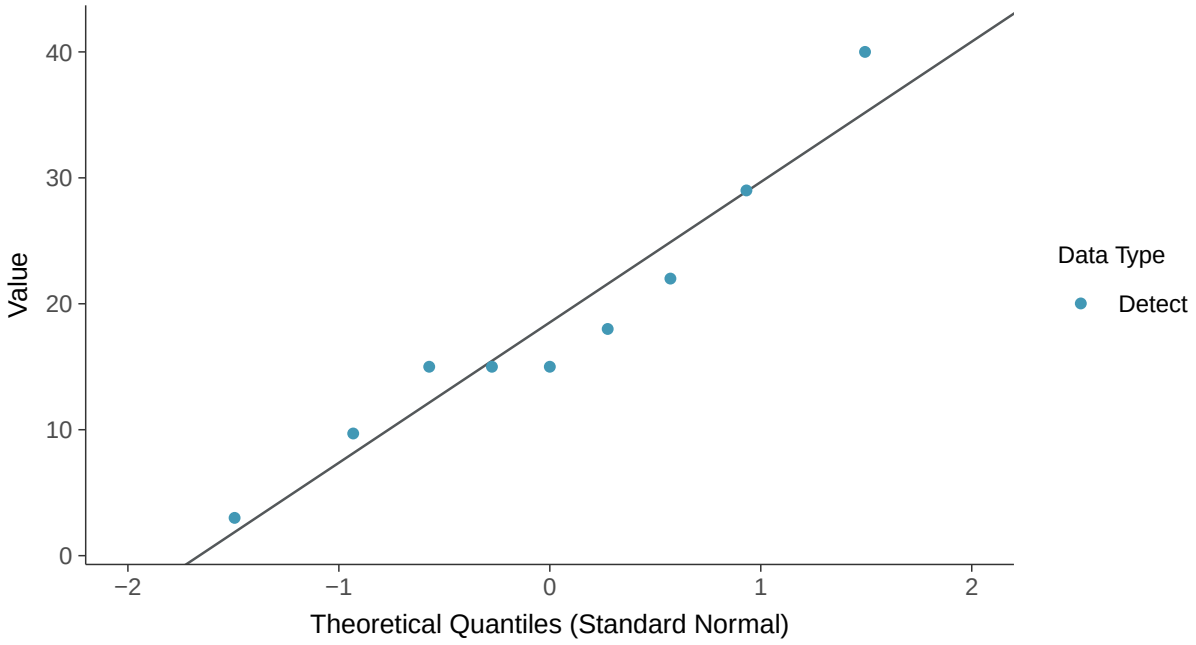
Boxplot by Season

Chloride (as Cl), MW-37 (mg/L)



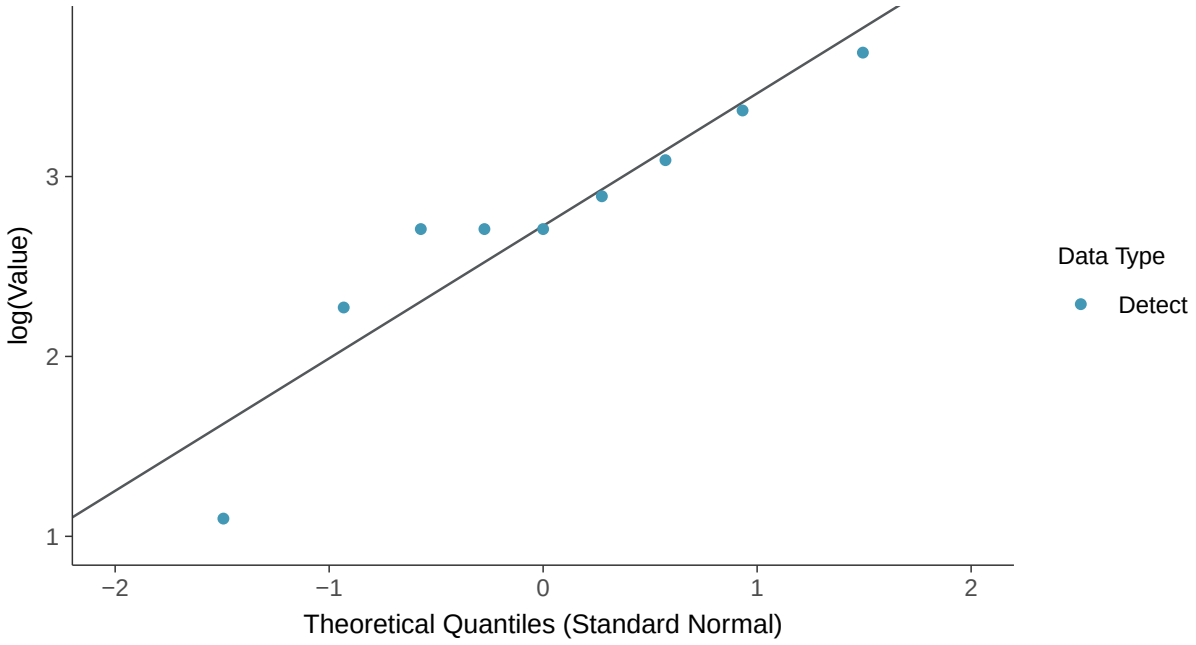
Normal Q-Q plot

Chloride (as Cl), MW-37 (mg/L)



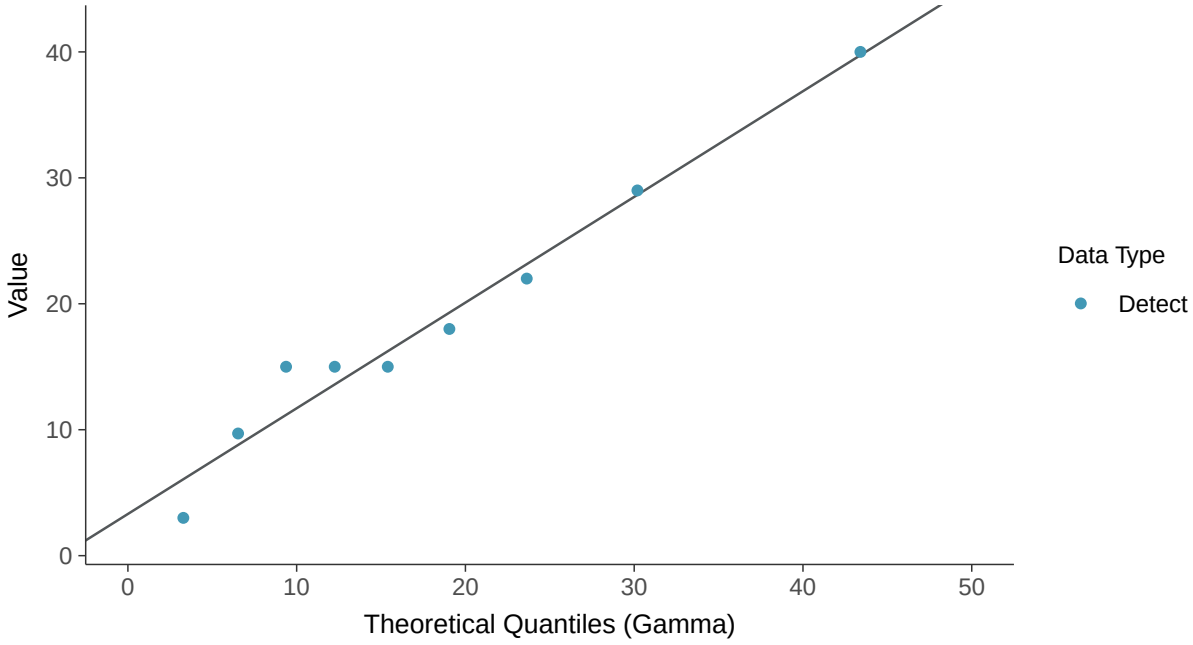
Lognormal Q-Q plot

Chloride (as Cl), MW-37 (mg/L)



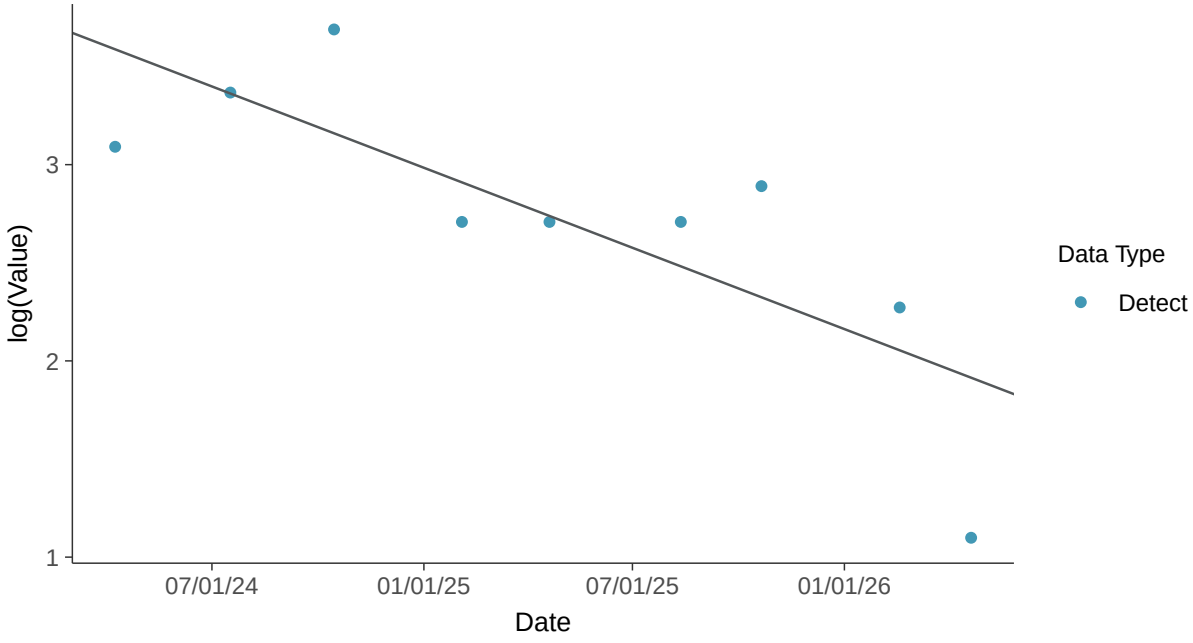
Gamma Q-Q plot

Chloride (as Cl), MW-37 (mg/L)



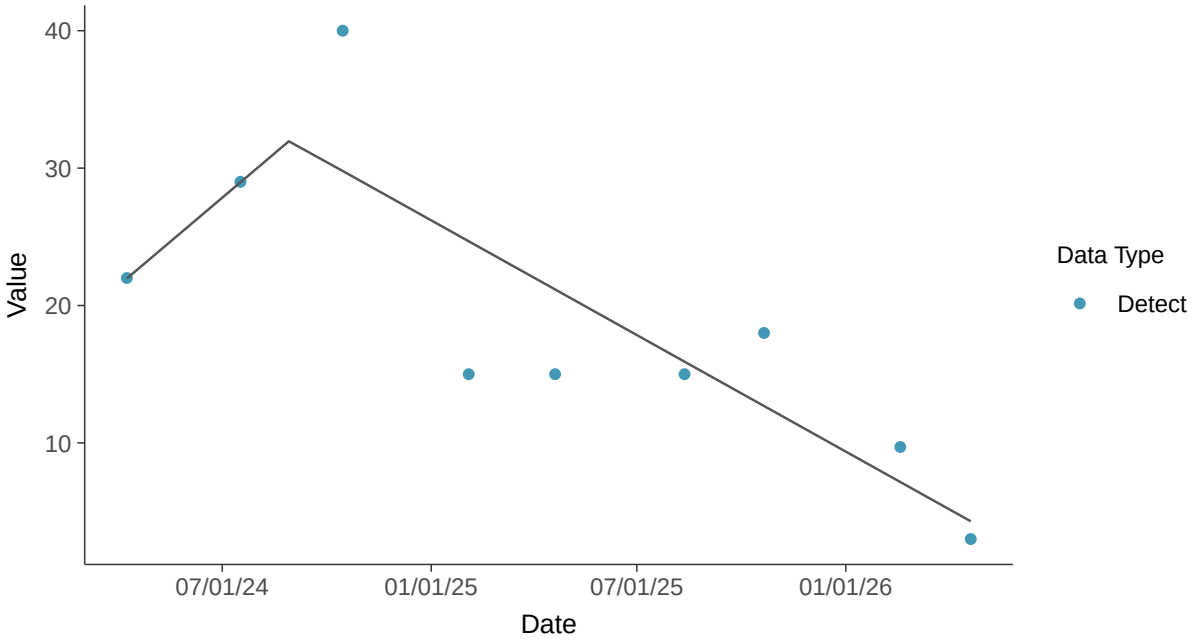
Trend Regression: Lognormal MLE

Chloride (as Cl), MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Chloride (as Cl), MW-37 (mg/L)

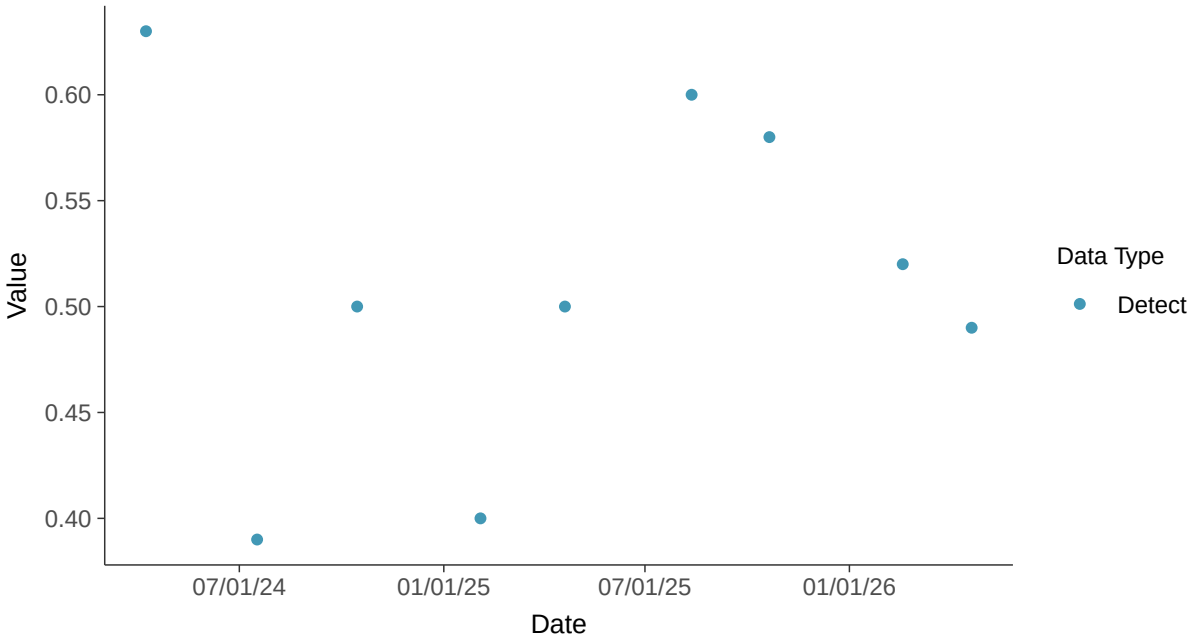


Appendix III: Fluoride, MW-37

ID: 47_1_3_112

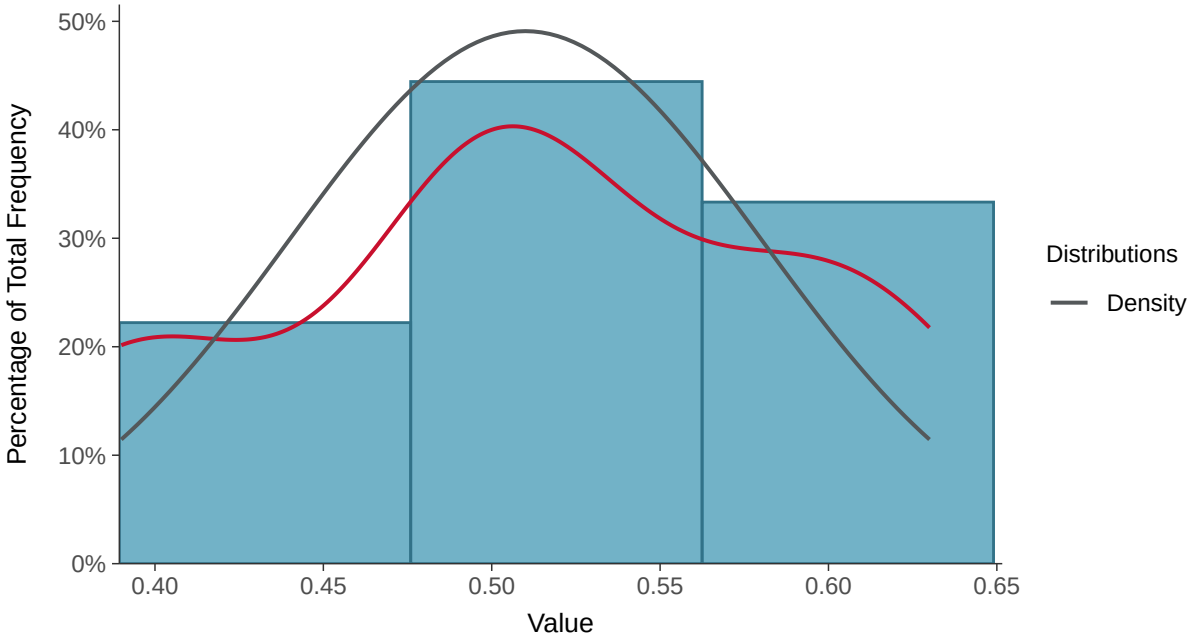
Scatter Plot

Fluoride, MW-37 (mg/L)



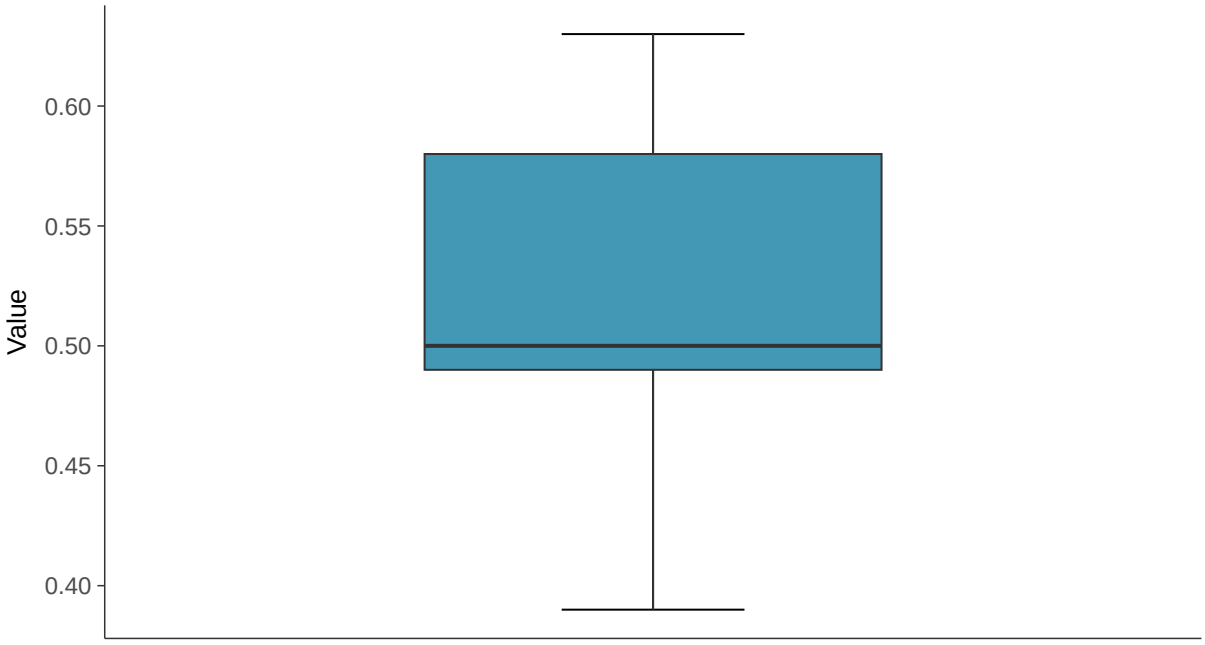
Histogram

Fluoride, MW-37 (mg/L)



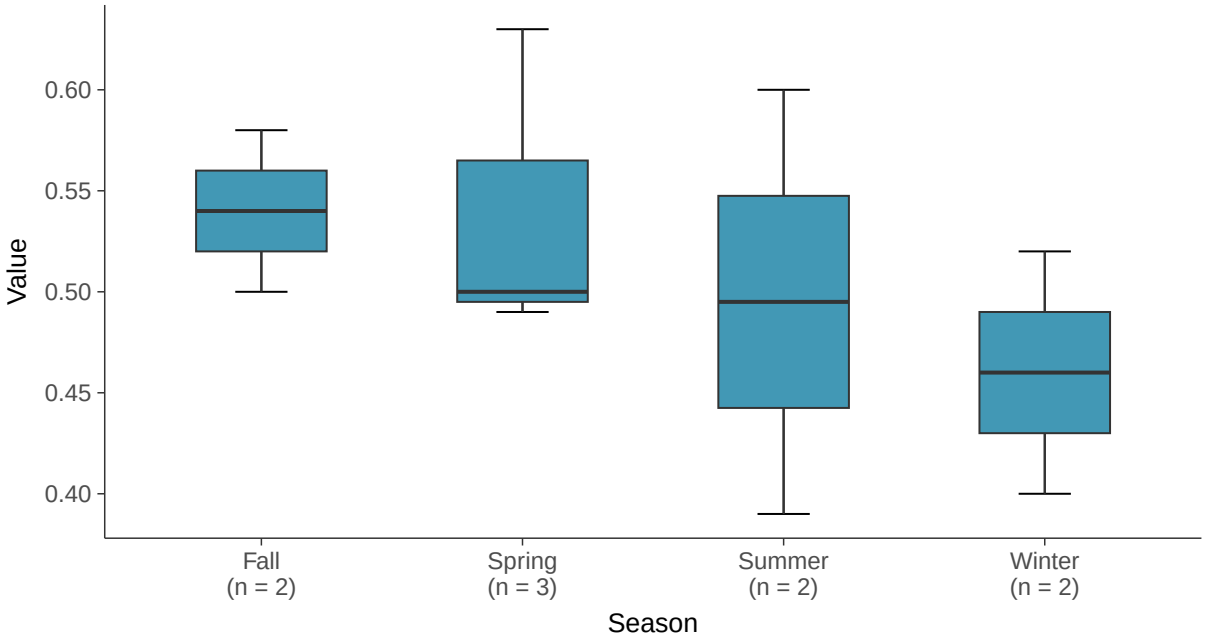
Boxplot

Fluoride, MW-37 (mg/L)



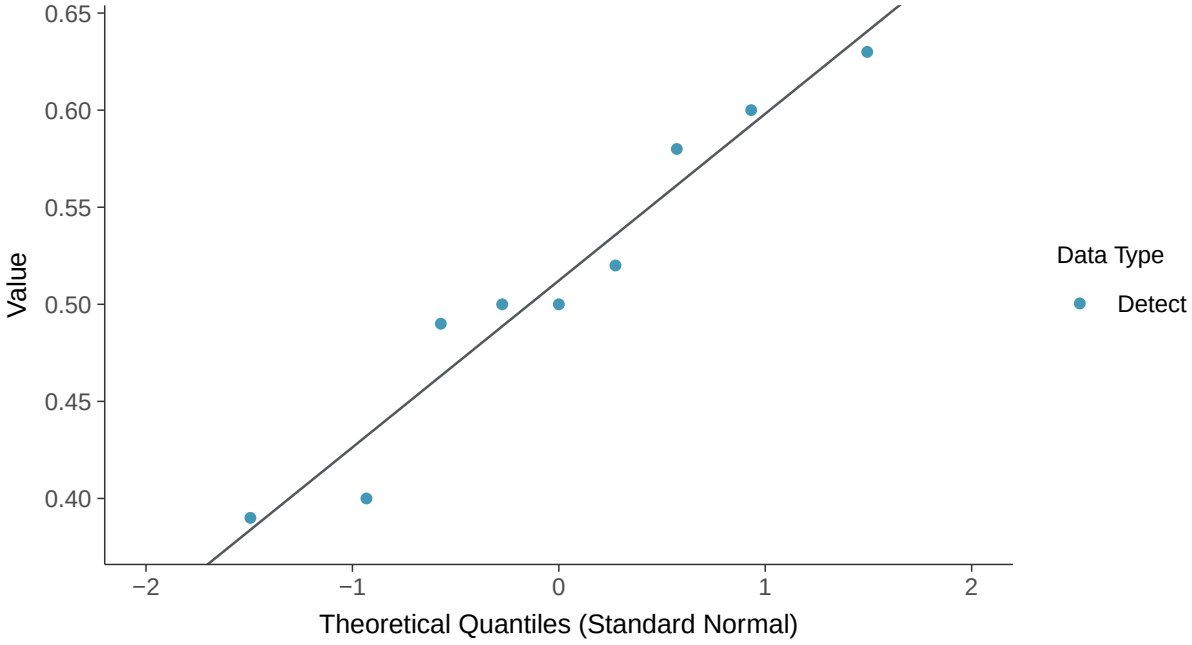
Boxplot by Season

Fluoride, MW-37 (mg/L)



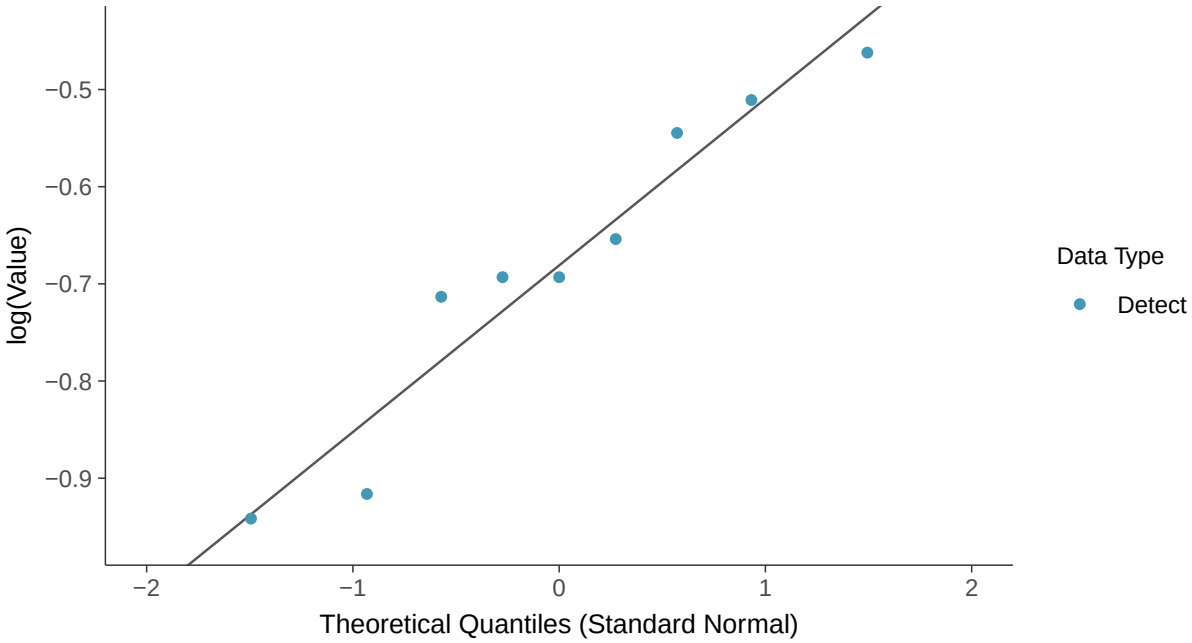
Normal Q-Q plot

Fluoride, MW-37 (mg/L)



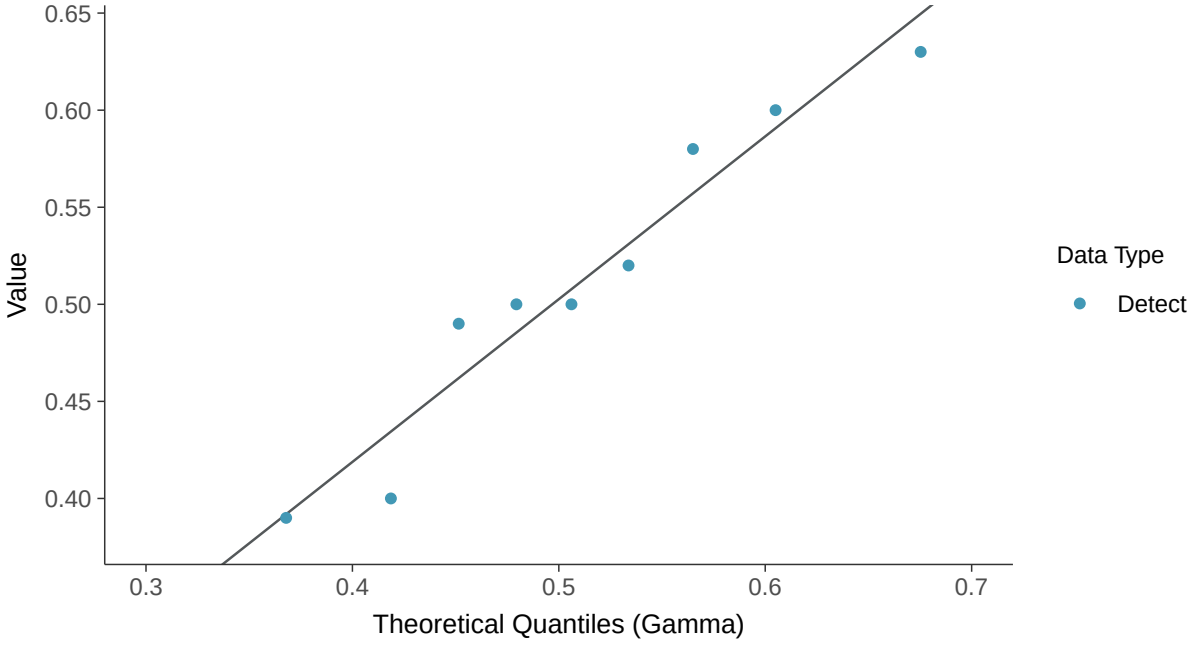
Lognormal Q-Q plot

Fluoride, MW-37 (mg/L)



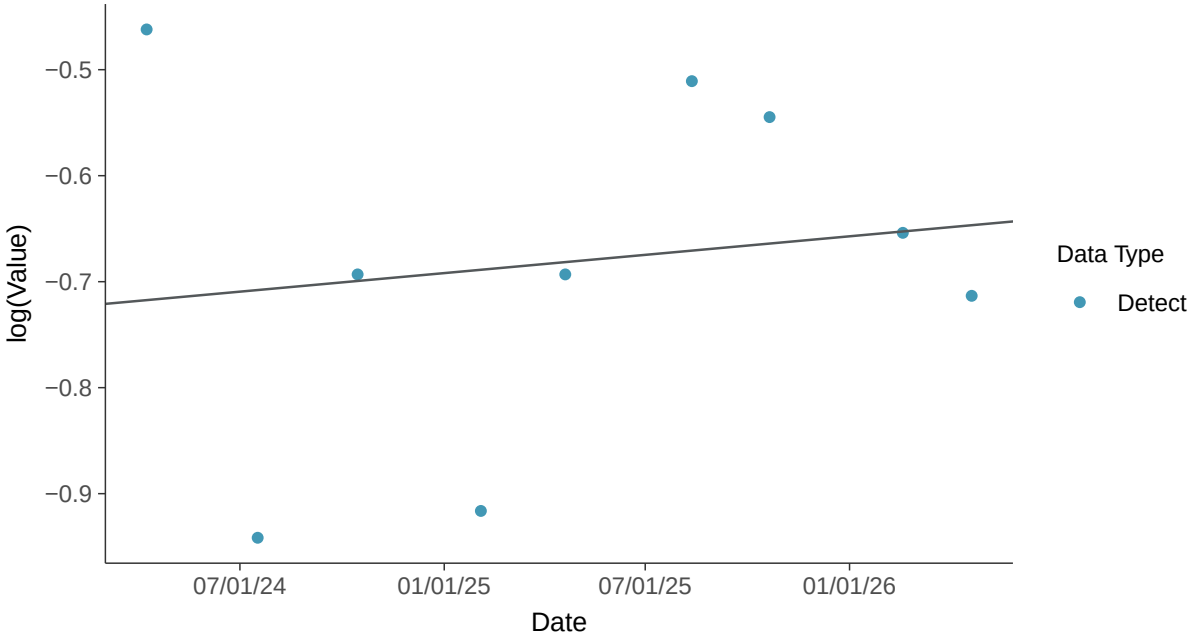
Gamma Q-Q plot

Fluoride, MW-37 (mg/L)



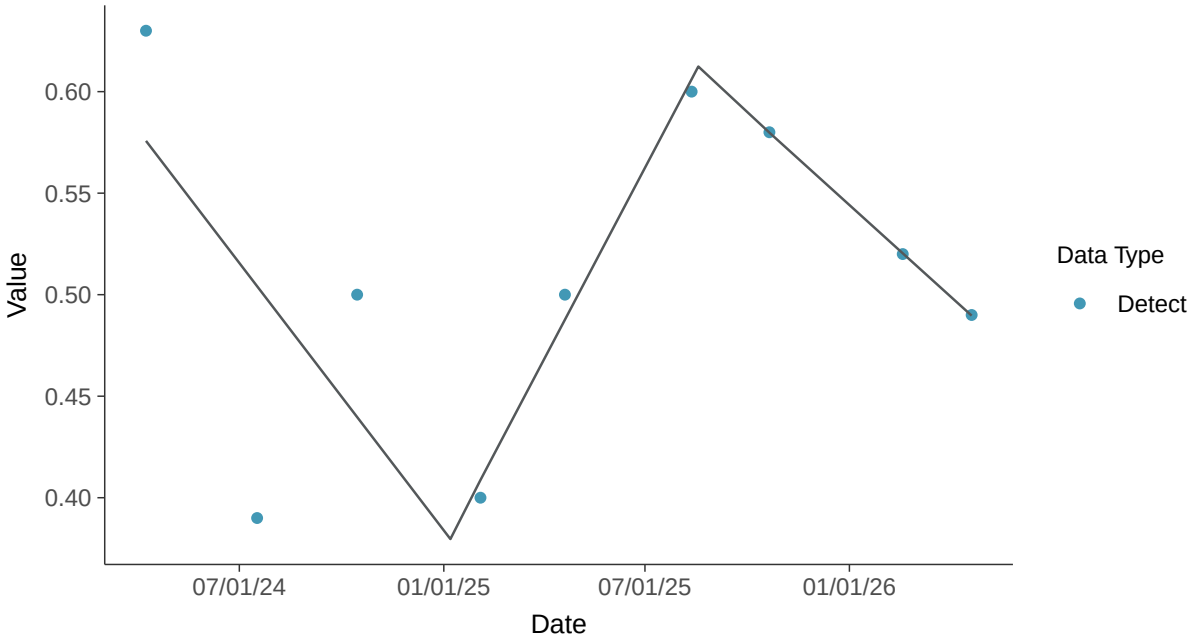
Trend Regression: Lognormal MLE

Fluoride, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride, MW-37 (mg/L)

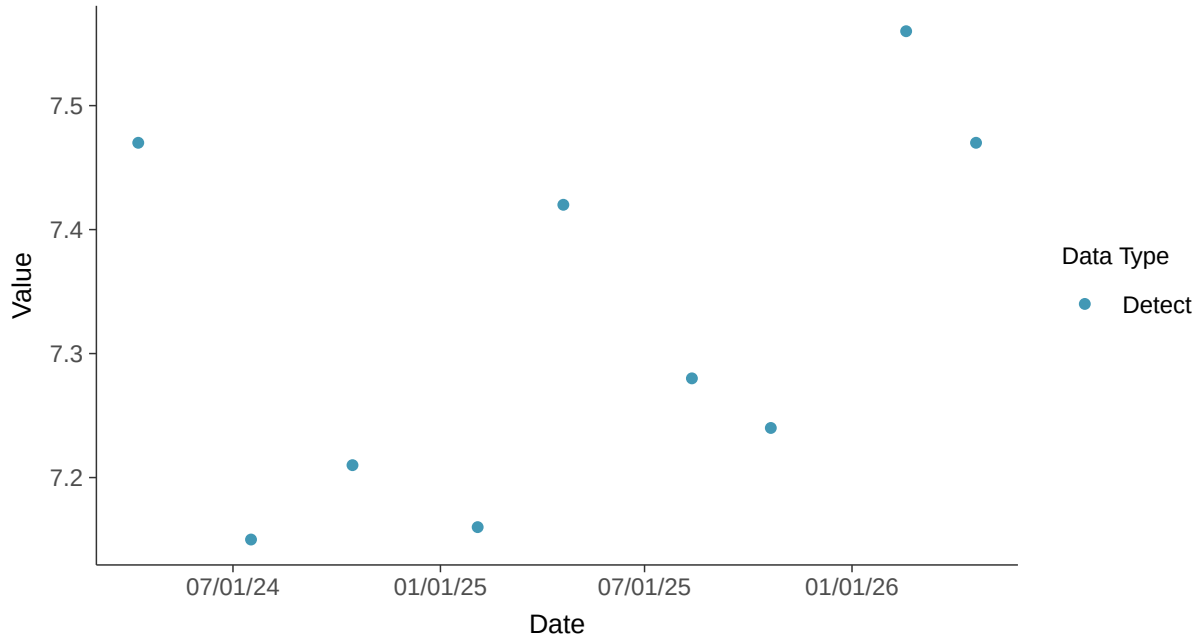


Appendix III: pH (field), MW-37

ID: 47_1_3_120

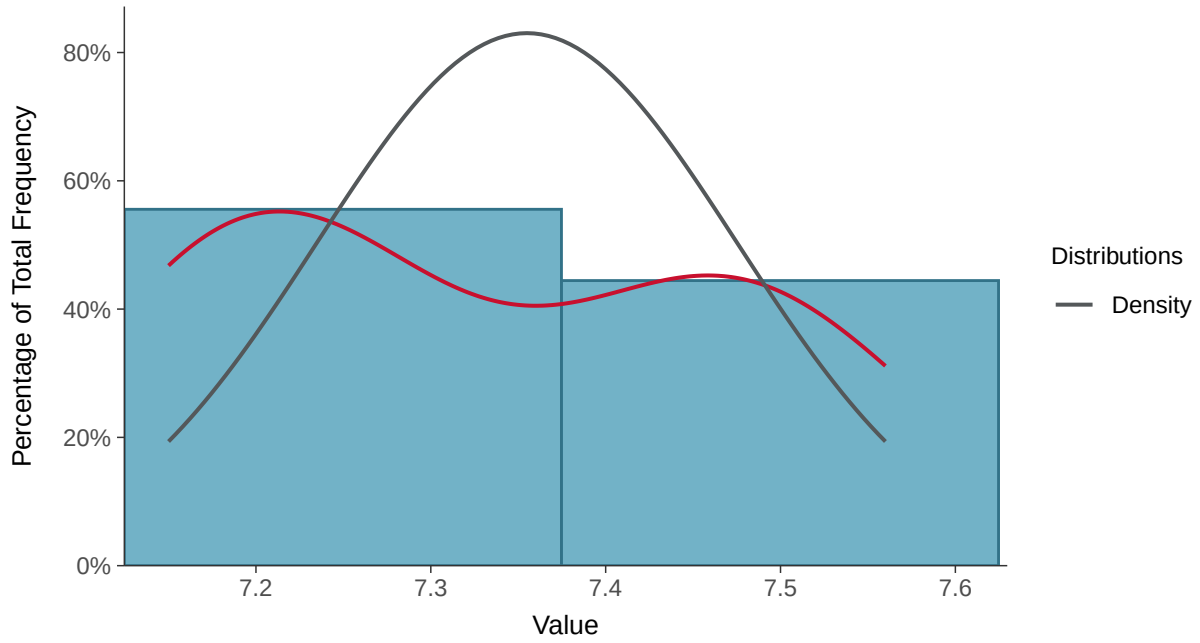
Scatter Plot

pH (field), MW-37 (su)



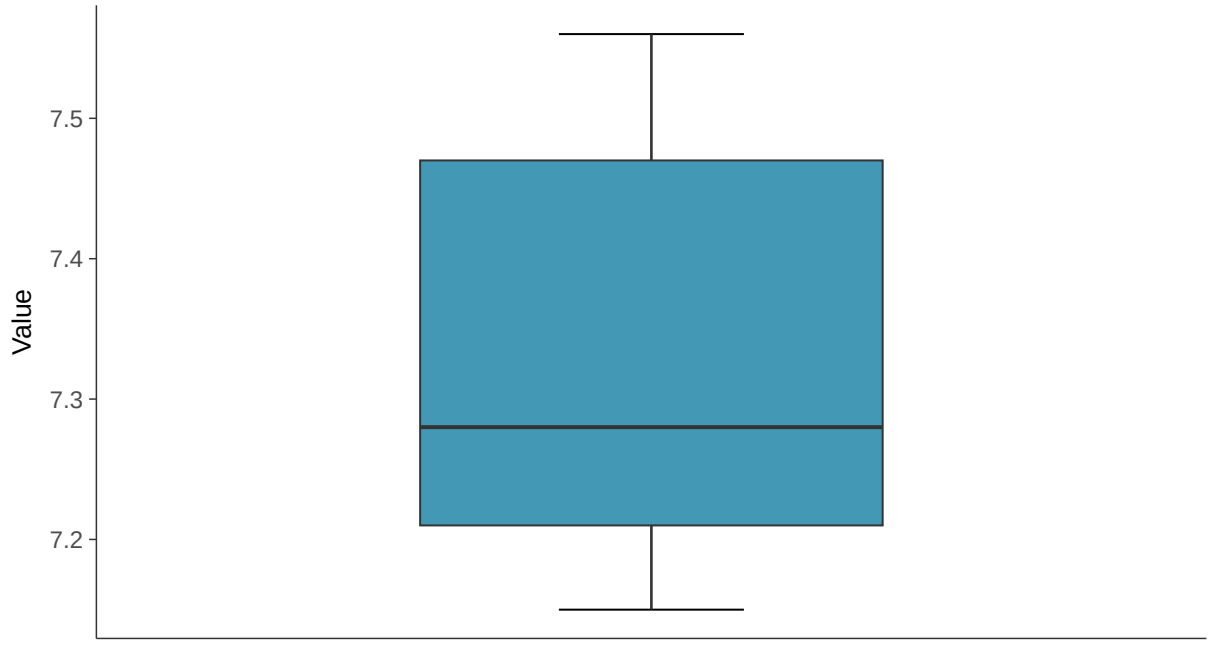
Histogram

pH (field), MW-37 (su)



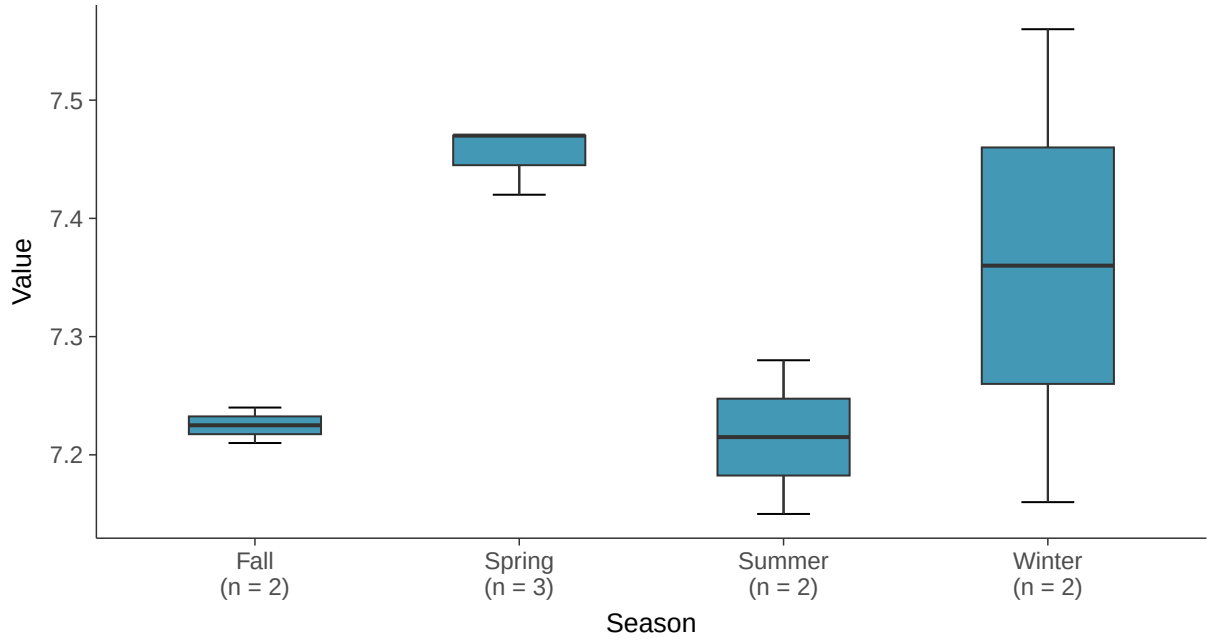
Boxplot

pH (field), MW-37 (su)



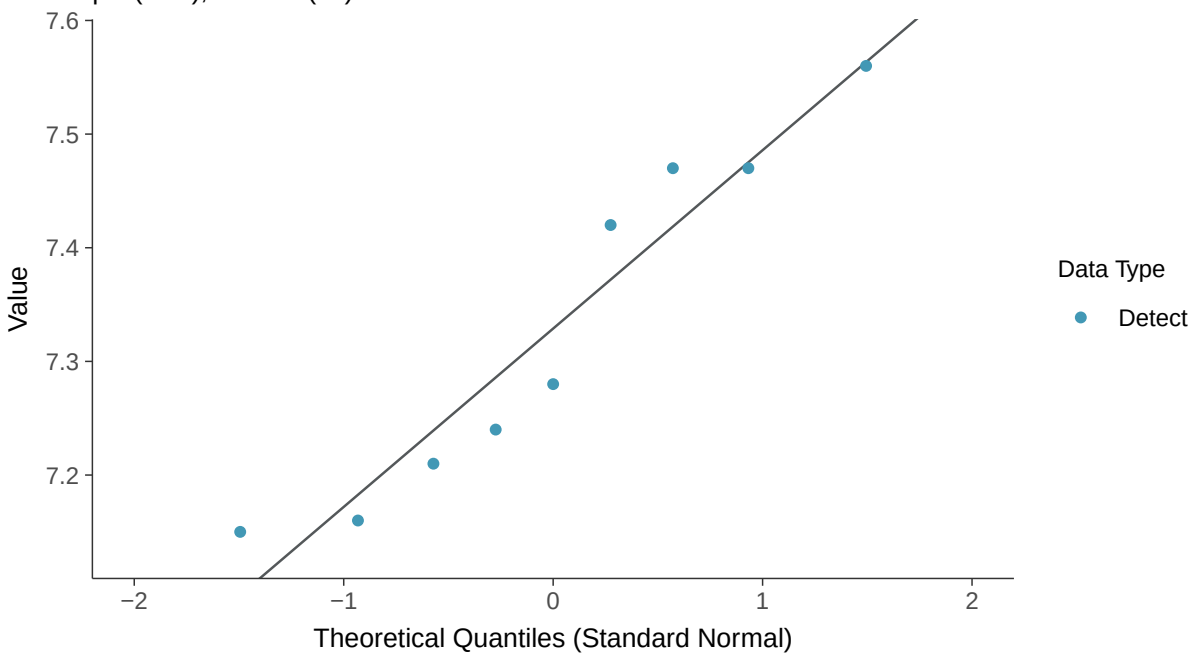
Boxplot by Season

pH (field), MW-37 (su)



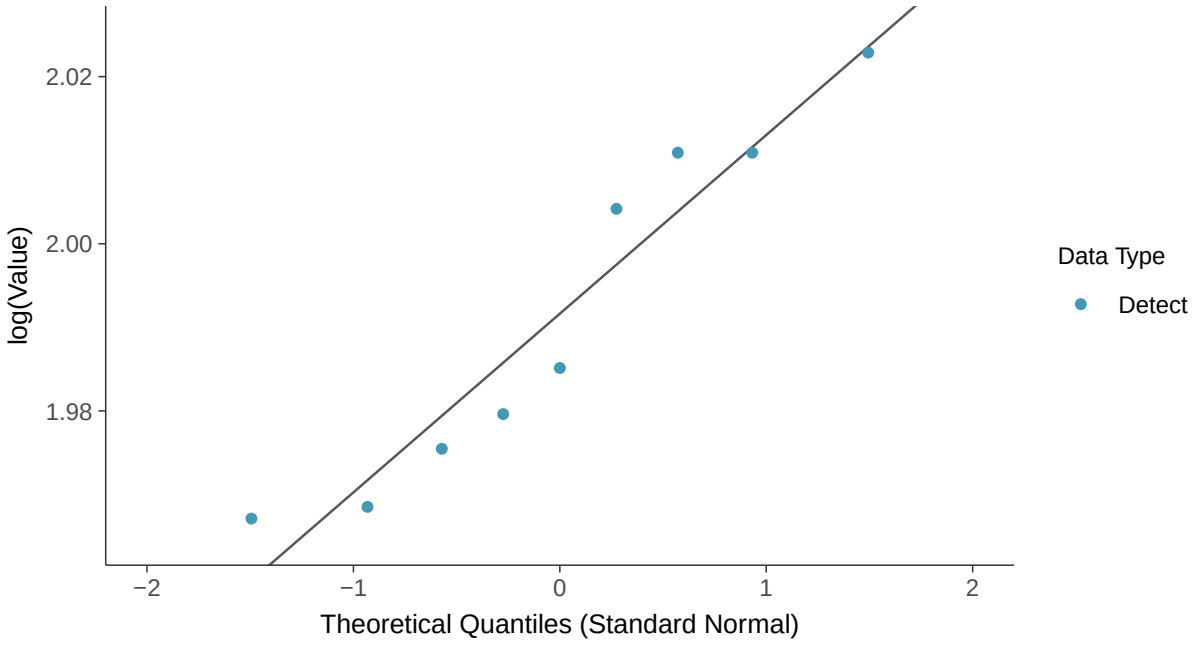
Normal Q-Q plot

pH (field), MW-37 (su)



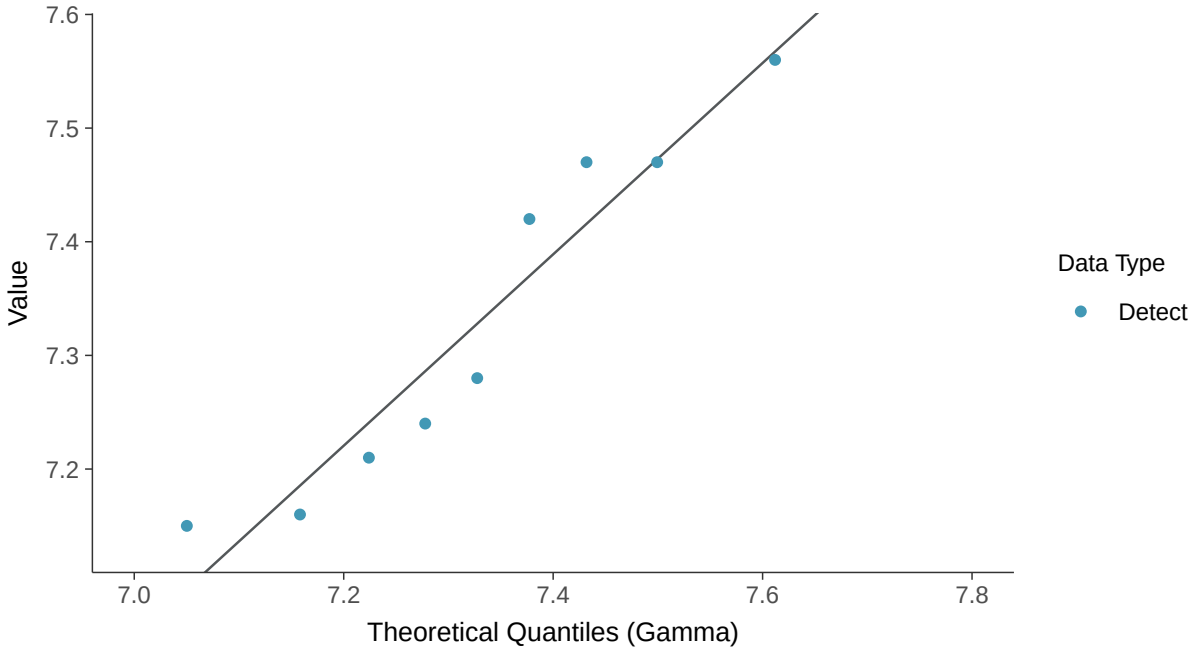
Lognormal Q-Q plot

pH (field), MW-37 (su)



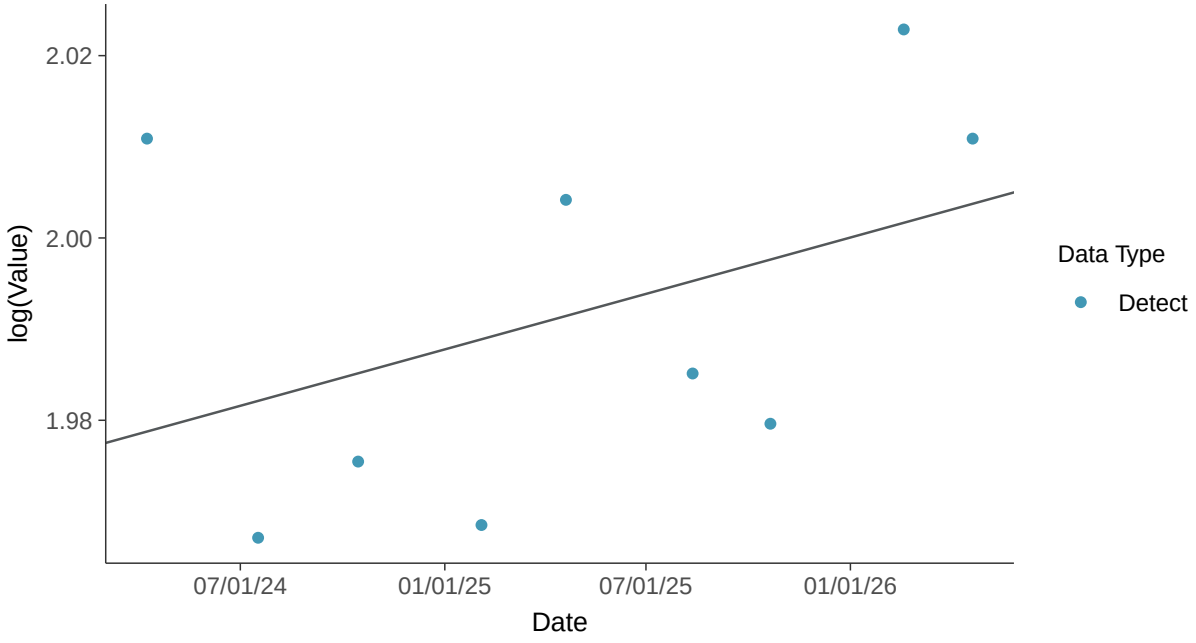
Gamma Q-Q plot

pH (field), MW-37 (su)



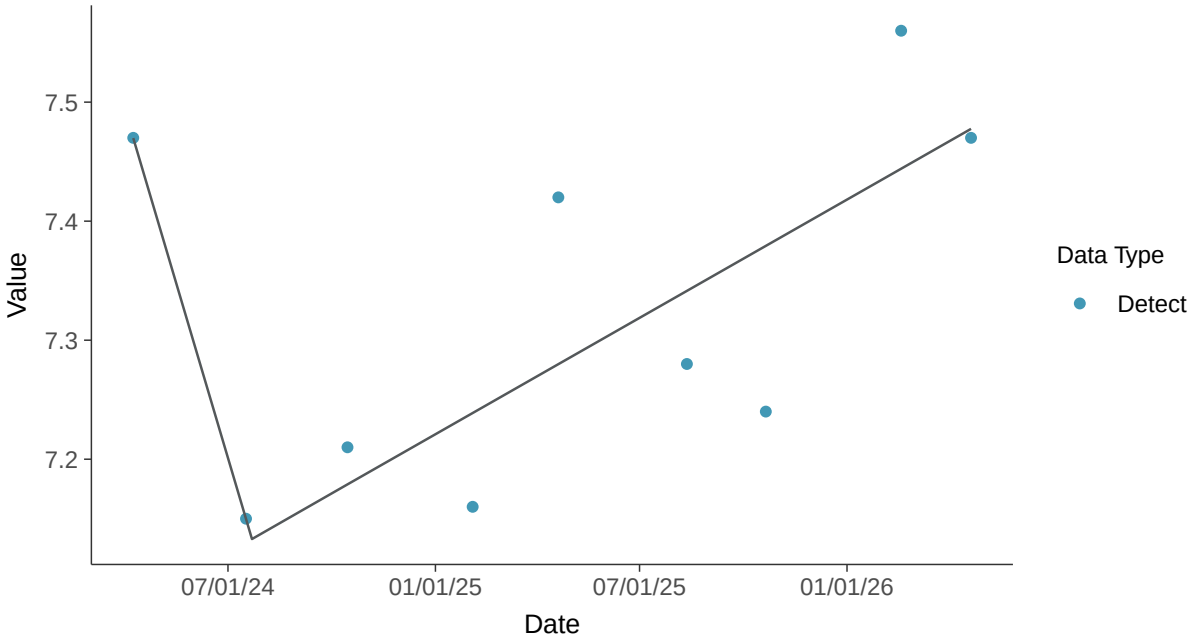
Trend Regression: Lognormal MLE

pH (field), MW-37 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-37 (su)

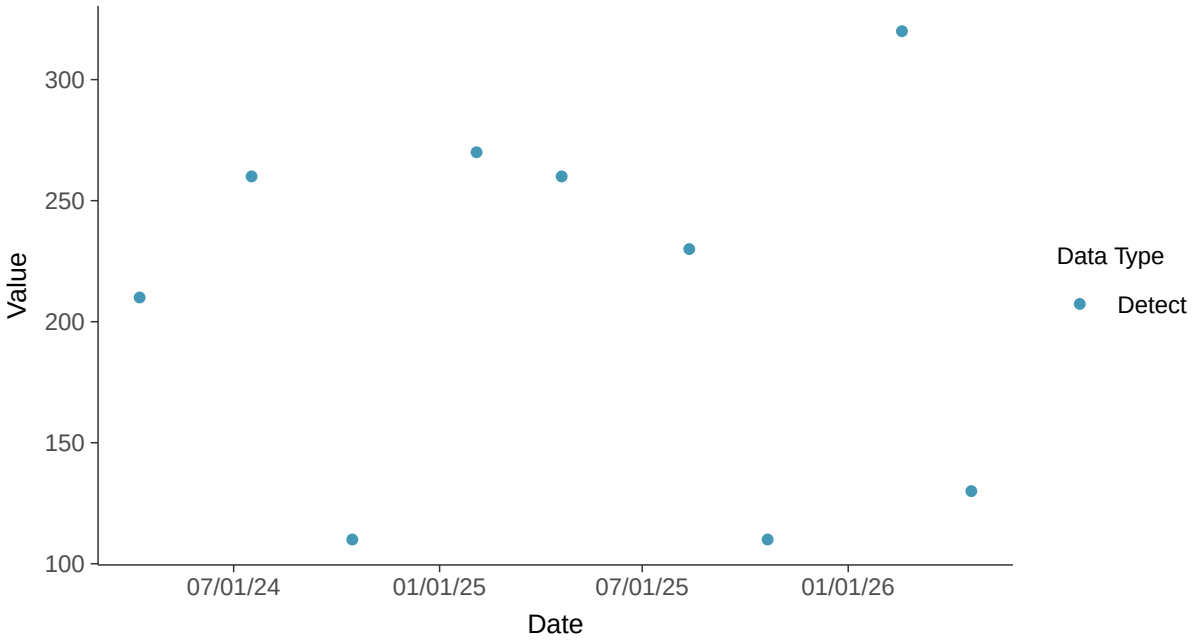


Appendix III: Sulfate (as SO4), MW-37

ID: 47_1_3_124

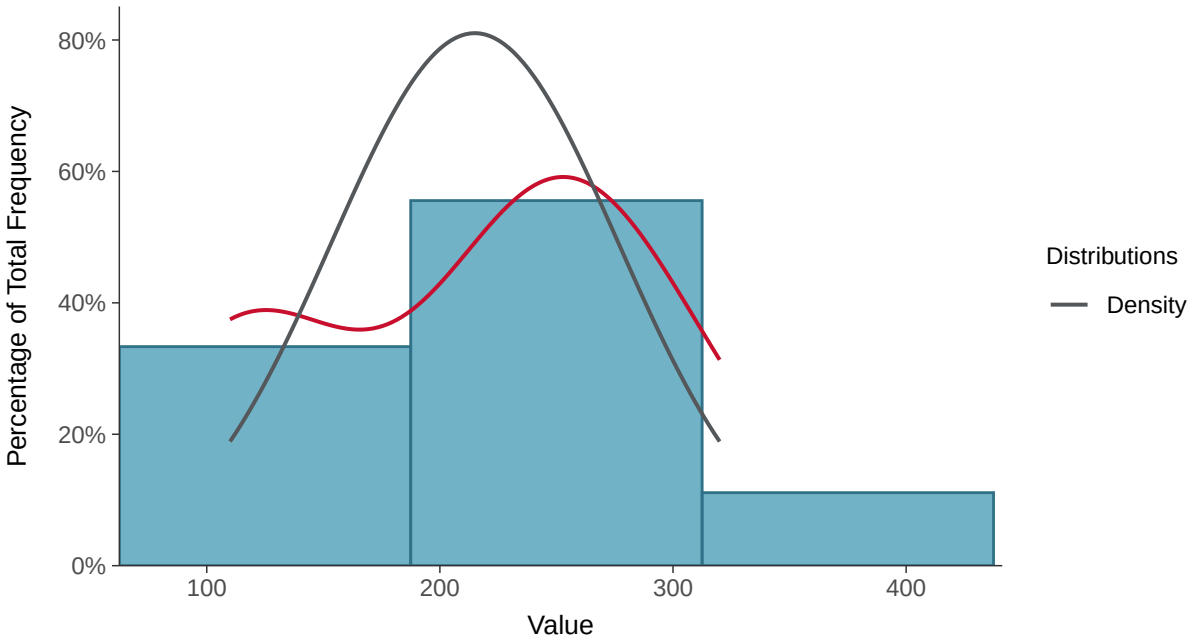
Scatter Plot

Sulfate (as SO4), MW-37 (mg/L)



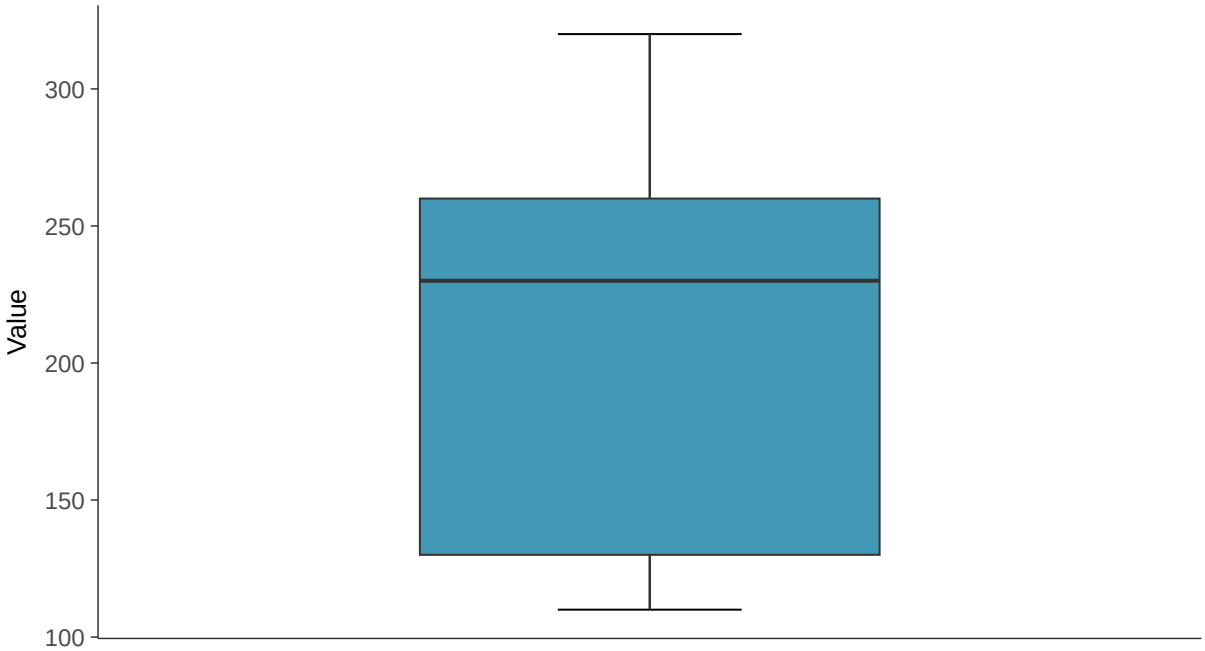
Histogram

Sulfate (as SO4), MW-37 (mg/L)



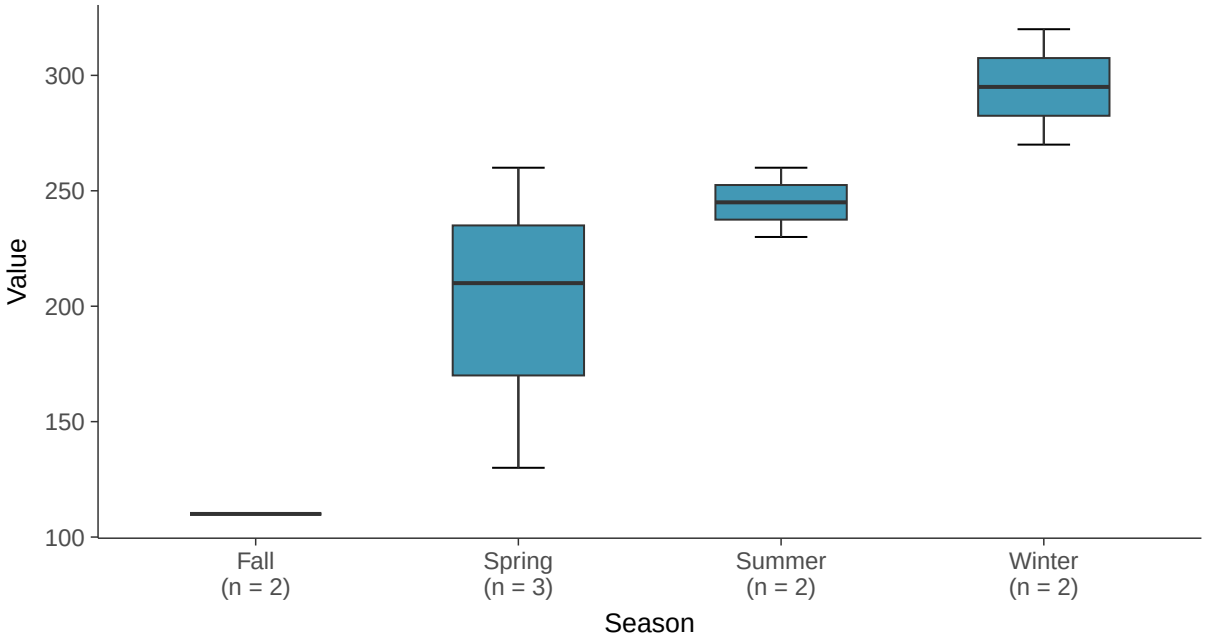
Boxplot

Sulfate (as SO4), MW-37 (mg/L)



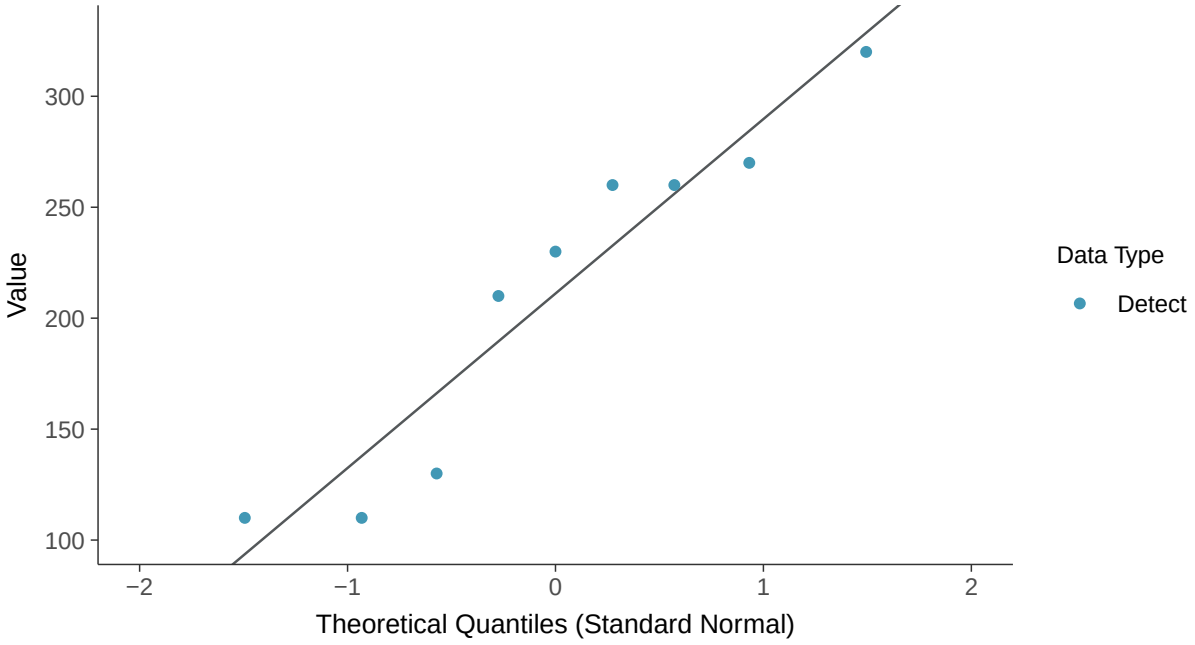
Boxplot by Season

Sulfate (as SO4), MW-37 (mg/L)



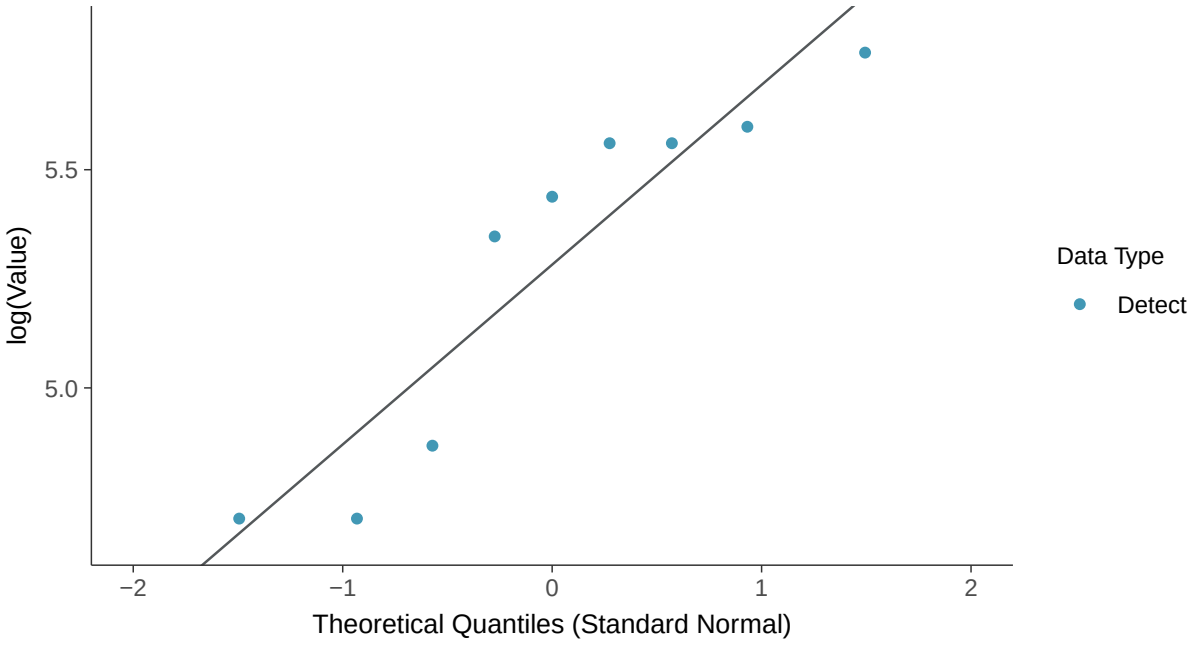
Normal Q-Q plot

Sulfate (as SO4), MW-37 (mg/L)



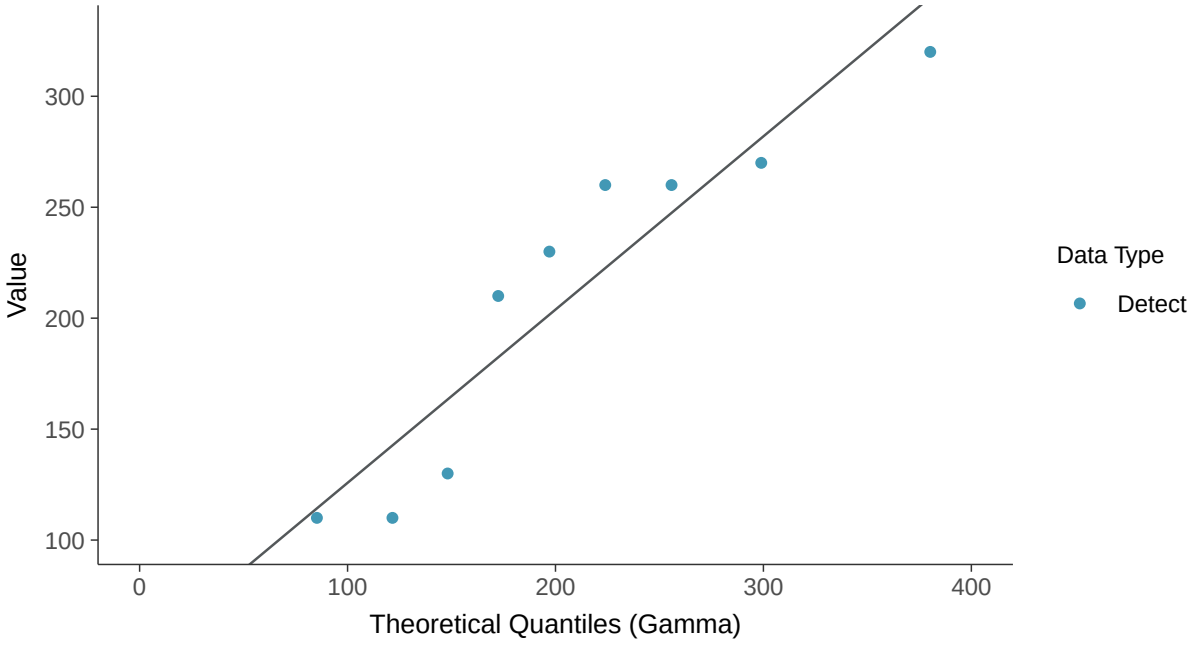
Lognormal Q-Q plot

Sulfate (as SO4), MW-37 (mg/L)



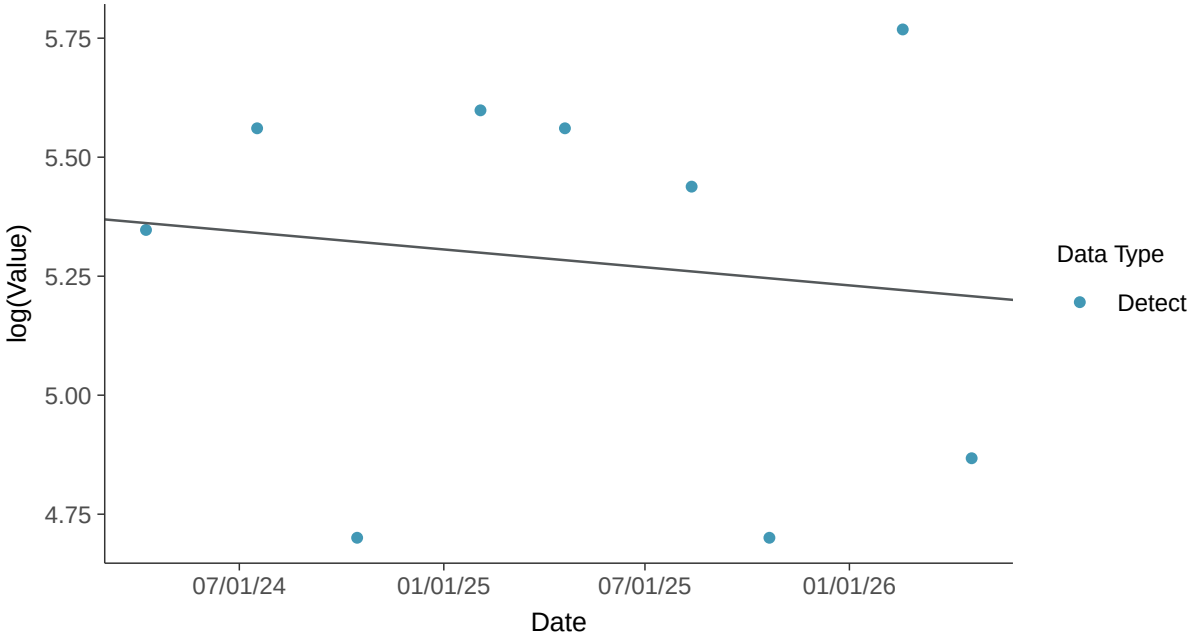
Gamma Q-Q plot

Sulfate (as SO4), MW-37 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-37 (mg/L)

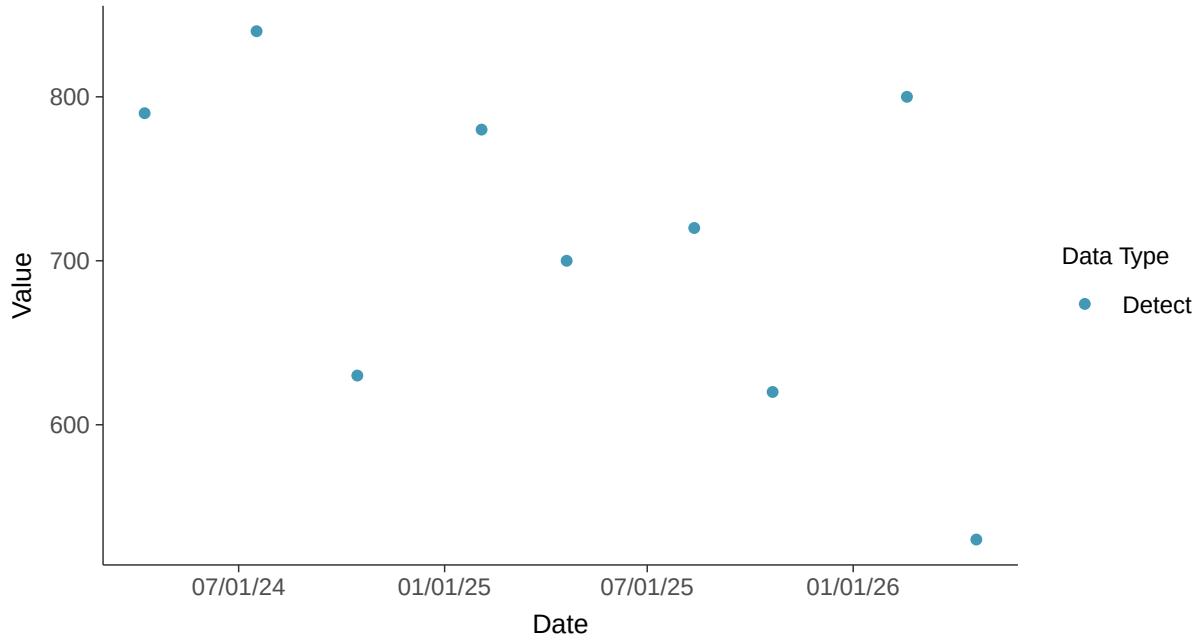


Appendix III: Total Dissolved Solids, MW-37

ID: 47_1_3_126

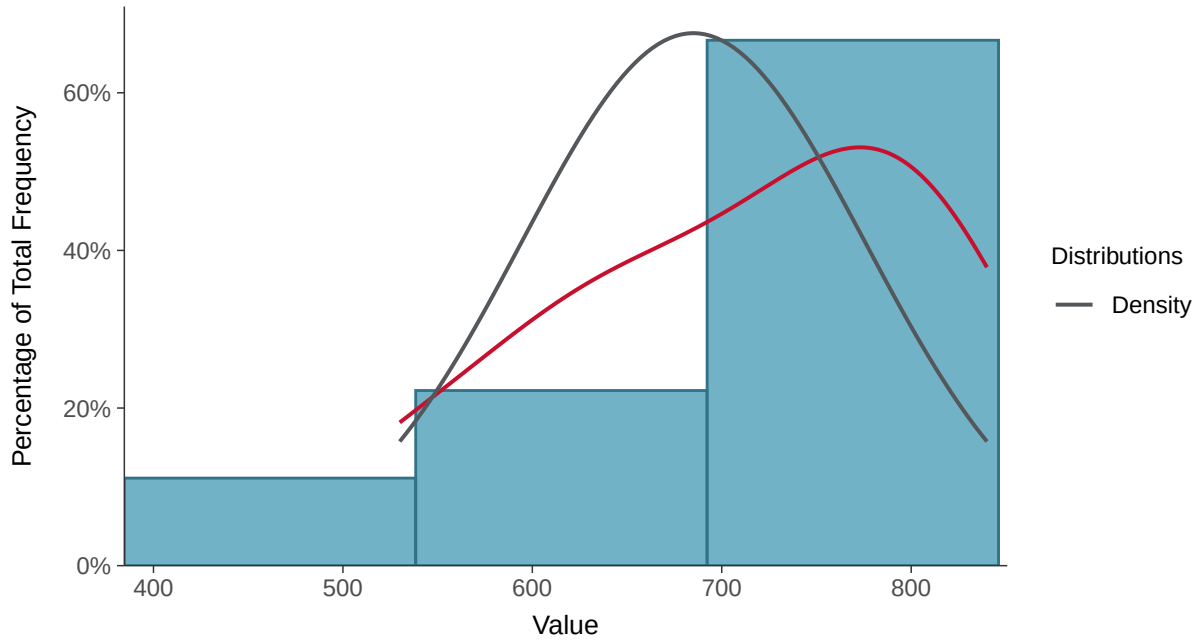
Scatter Plot

Total Dissolved Solids, MW-37 (mg/L)



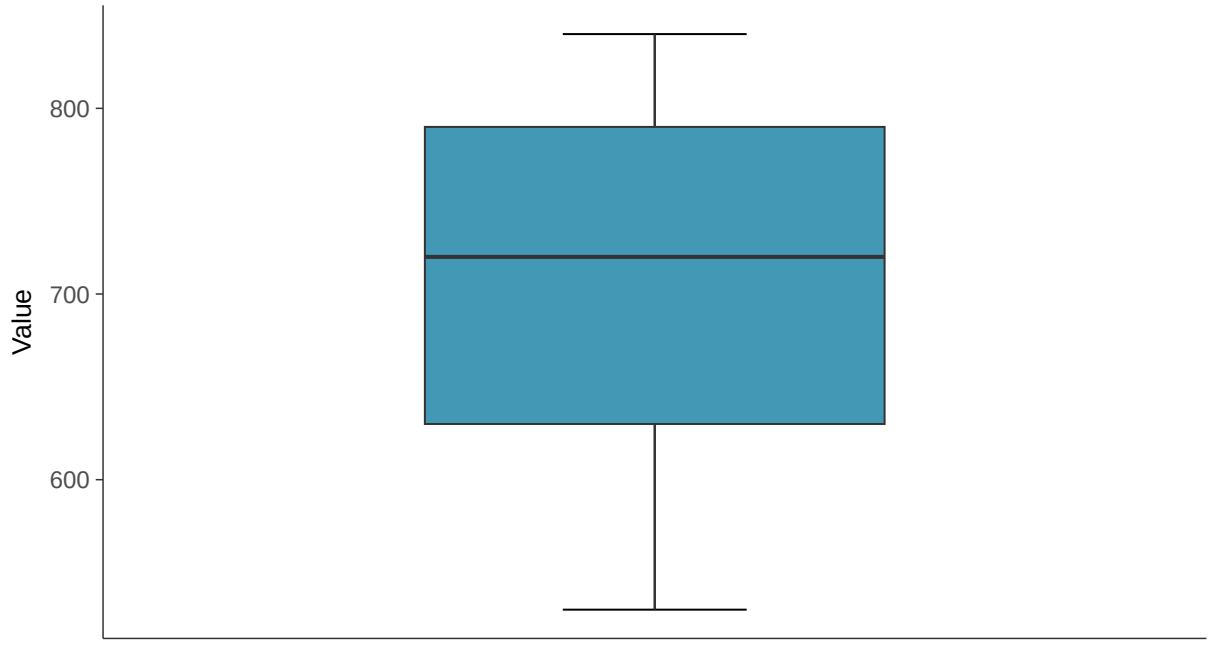
Histogram

Total Dissolved Solids, MW-37 (mg/L)



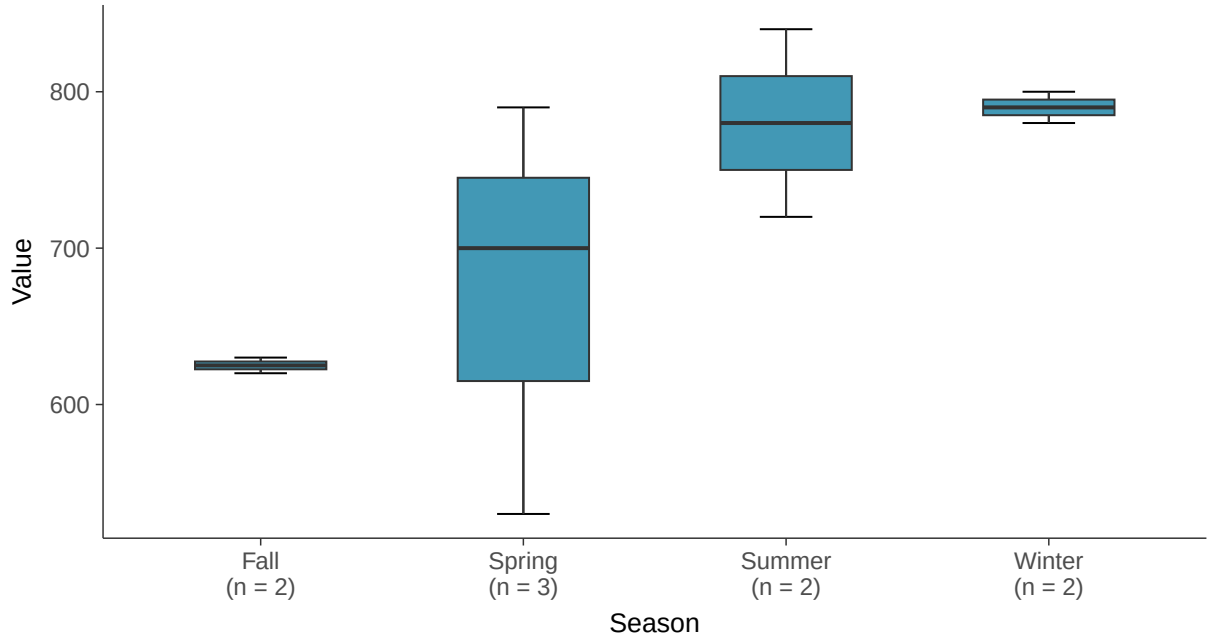
Boxplot

Total Dissolved Solids, MW-37 (mg/L)



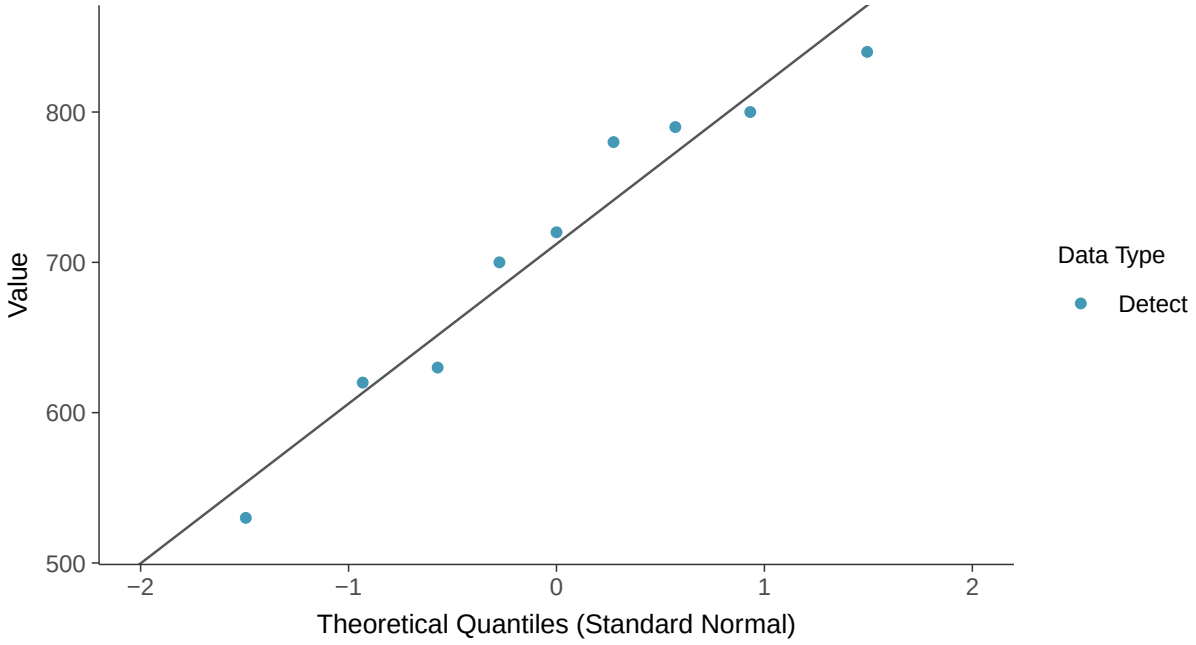
Boxplot by Season

Total Dissolved Solids, MW-37 (mg/L)



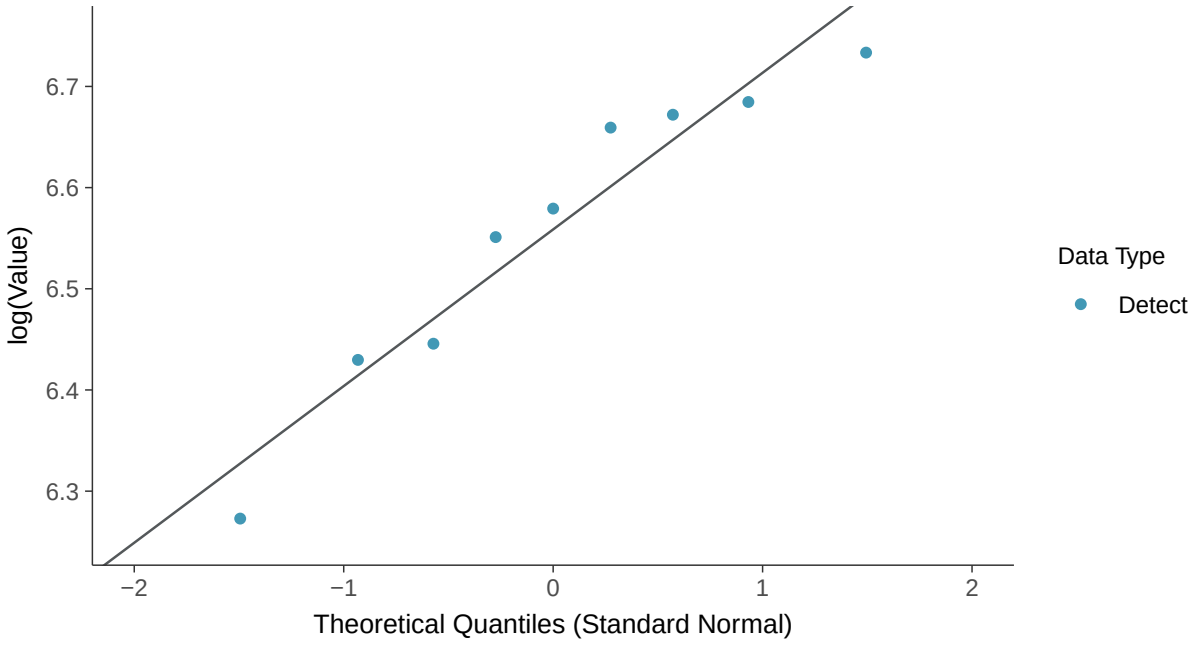
Normal Q-Q plot

Total Dissolved Solids, MW-37 (mg/L)



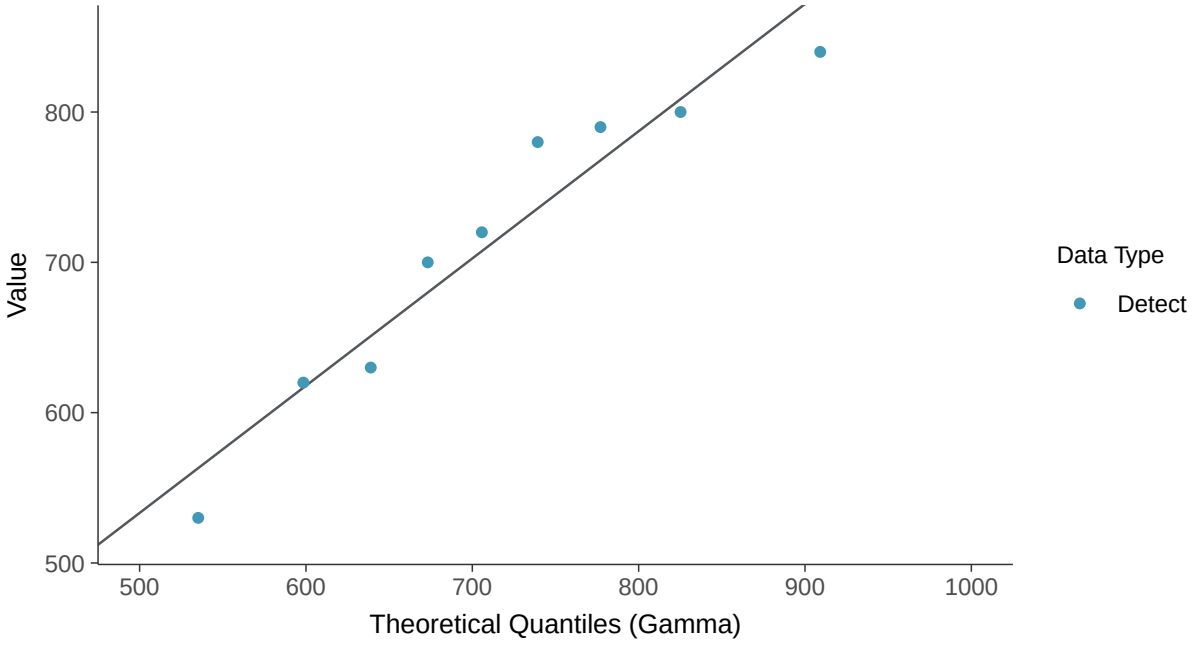
Lognormal Q-Q plot

Total Dissolved Solids, MW-37 (mg/L)



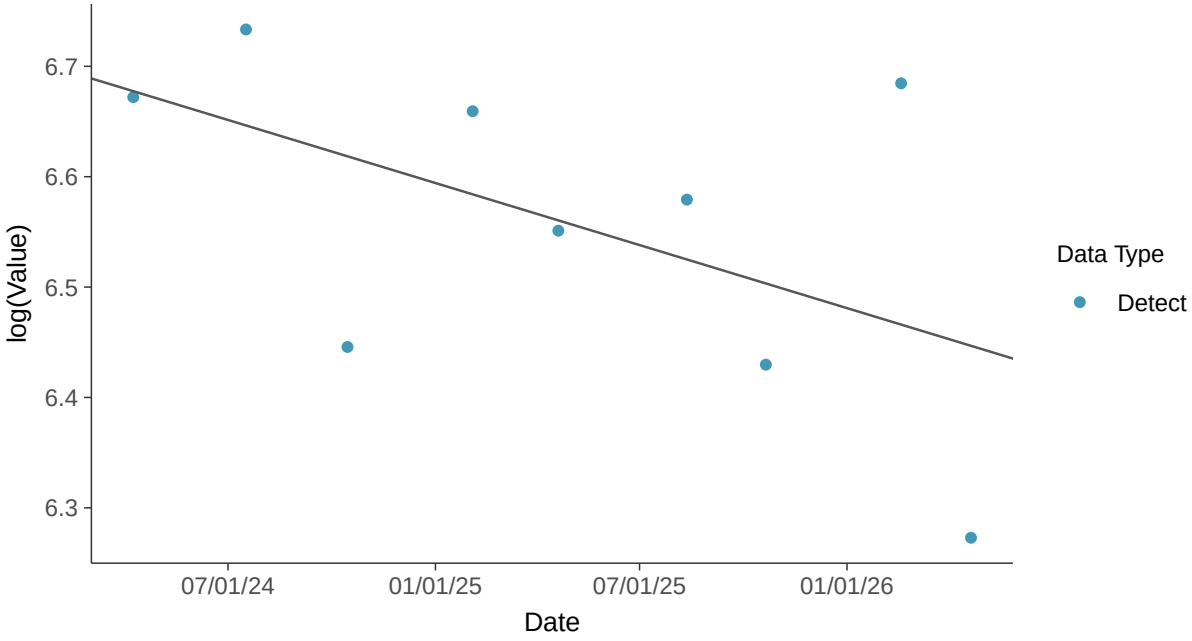
Gamma Q-Q plot

Total Dissolved Solids, MW-37 (mg/L)



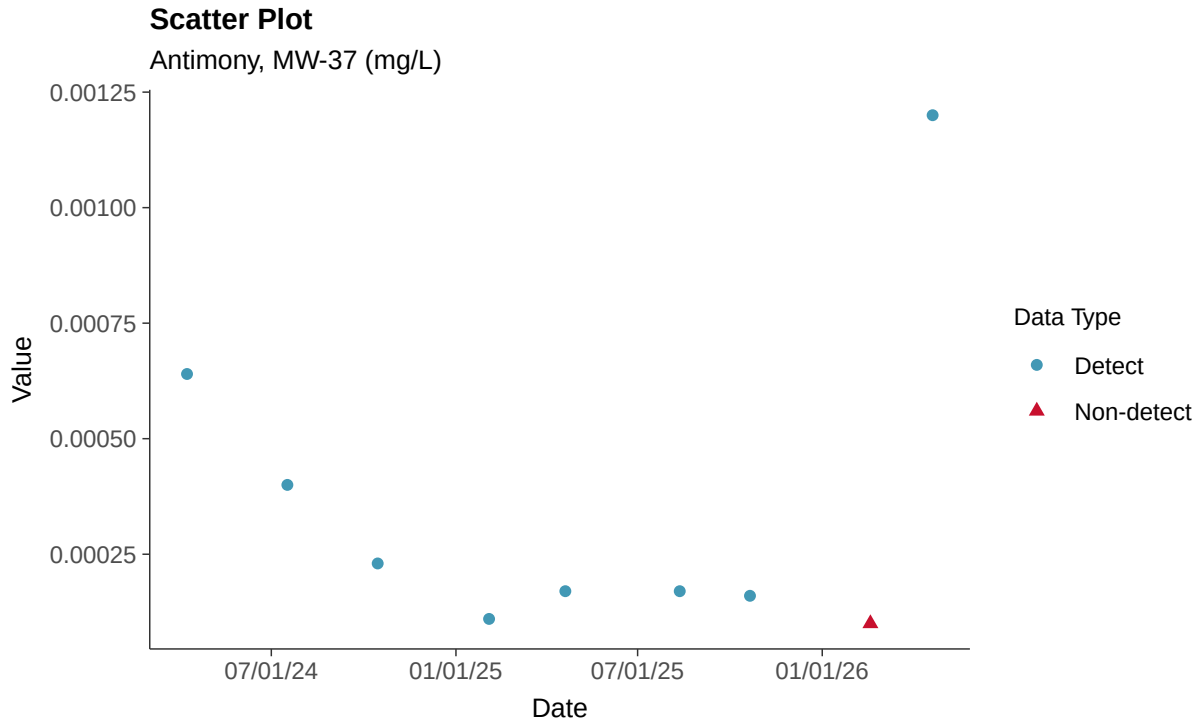
Trend Regression: Lognormal MLE

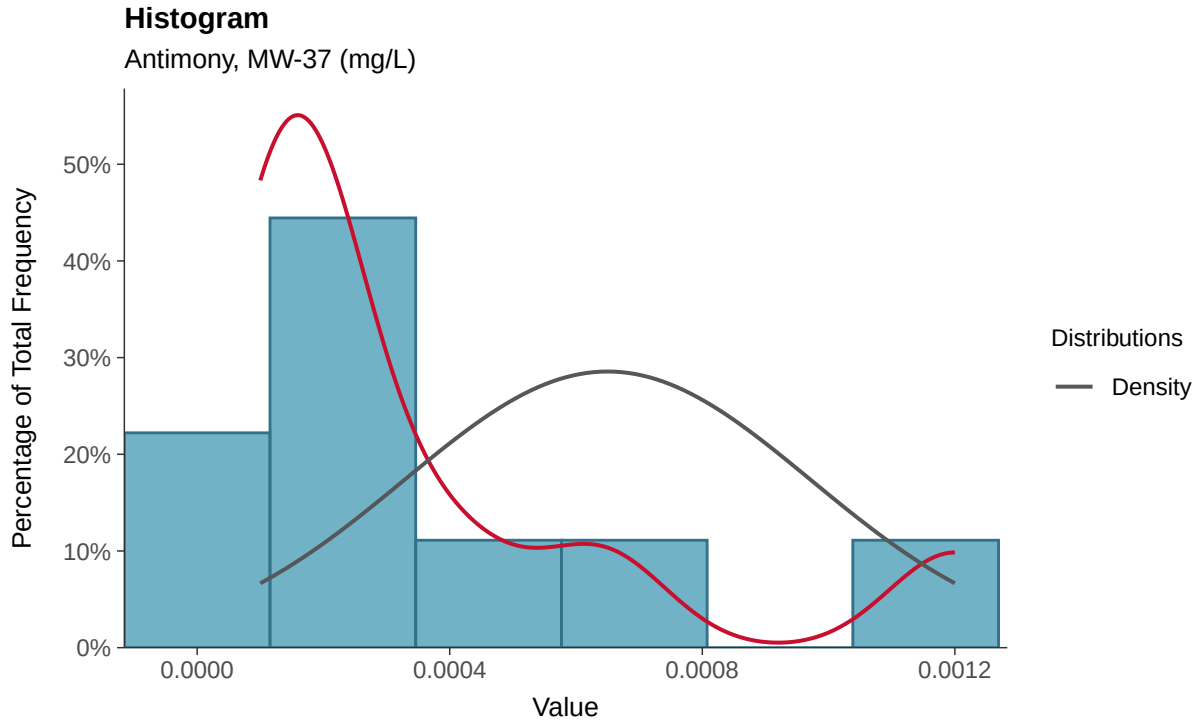
Total Dissolved Solids, MW-37 (mg/L)



Appendix IV: Antimony, MW-37

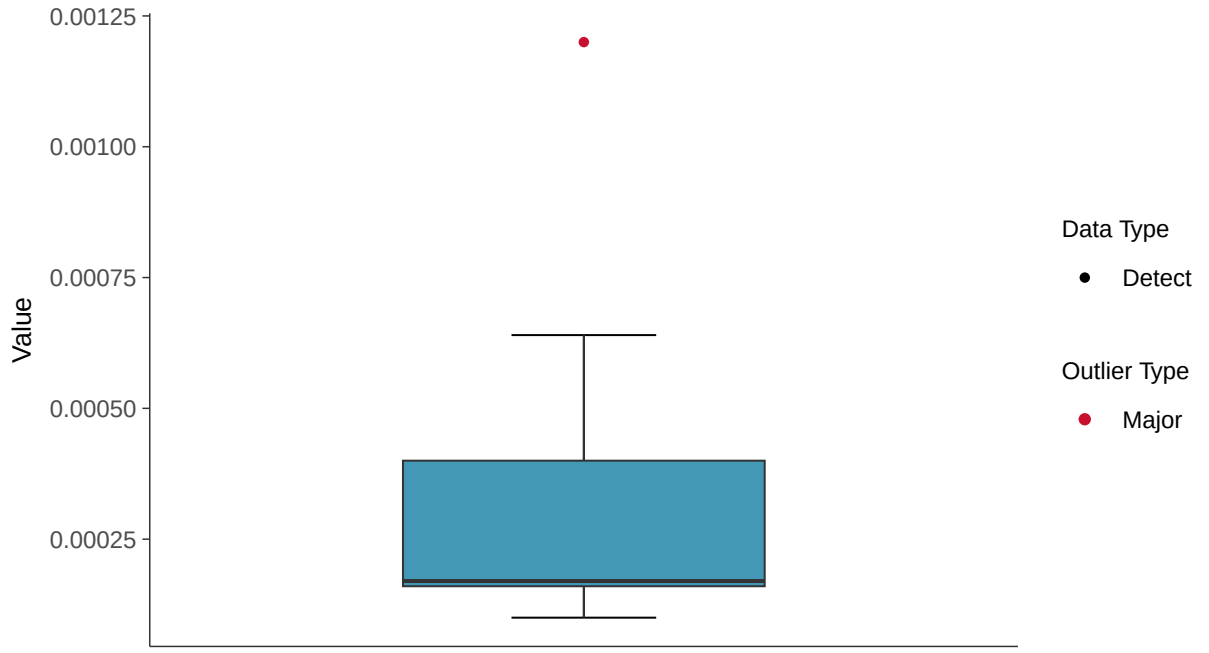
ID: 47_1_4_101





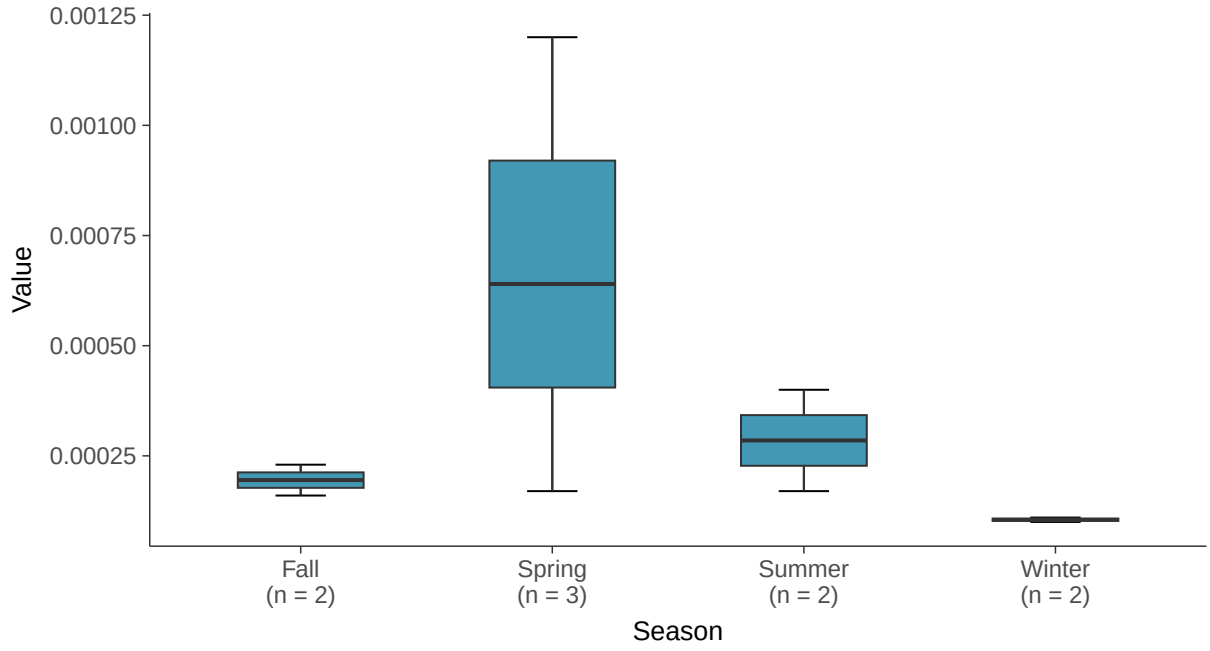
Boxplot

Antimony, MW-37 (mg/L)



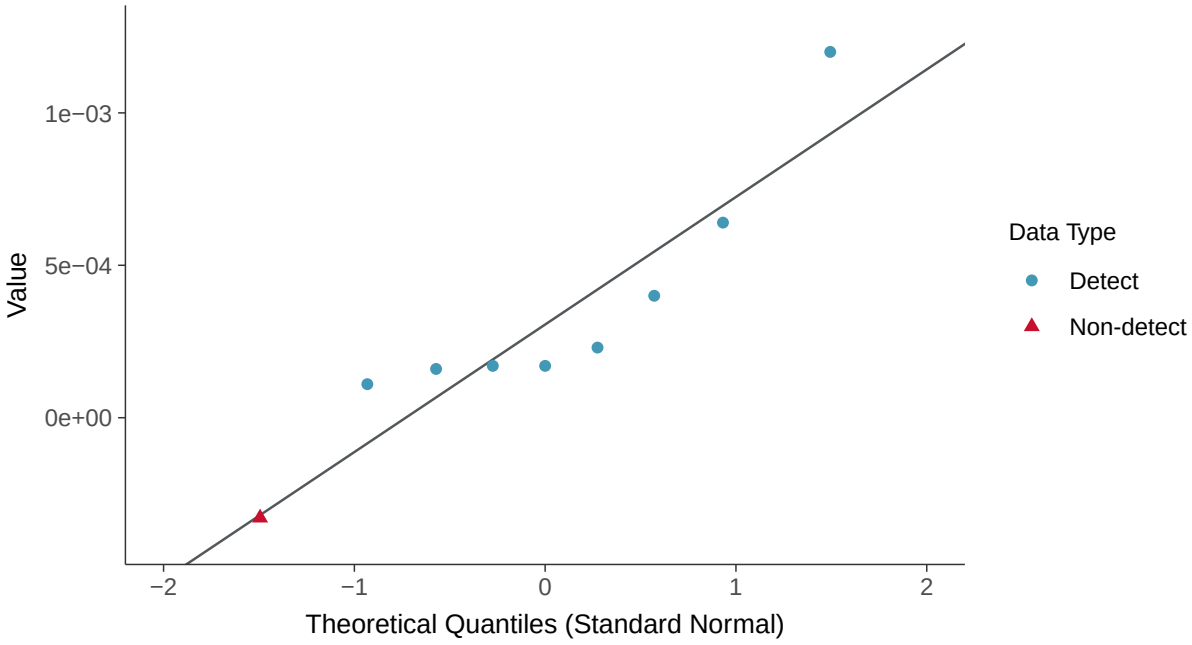
Boxplot by Season

Antimony, MW-37 (mg/L)



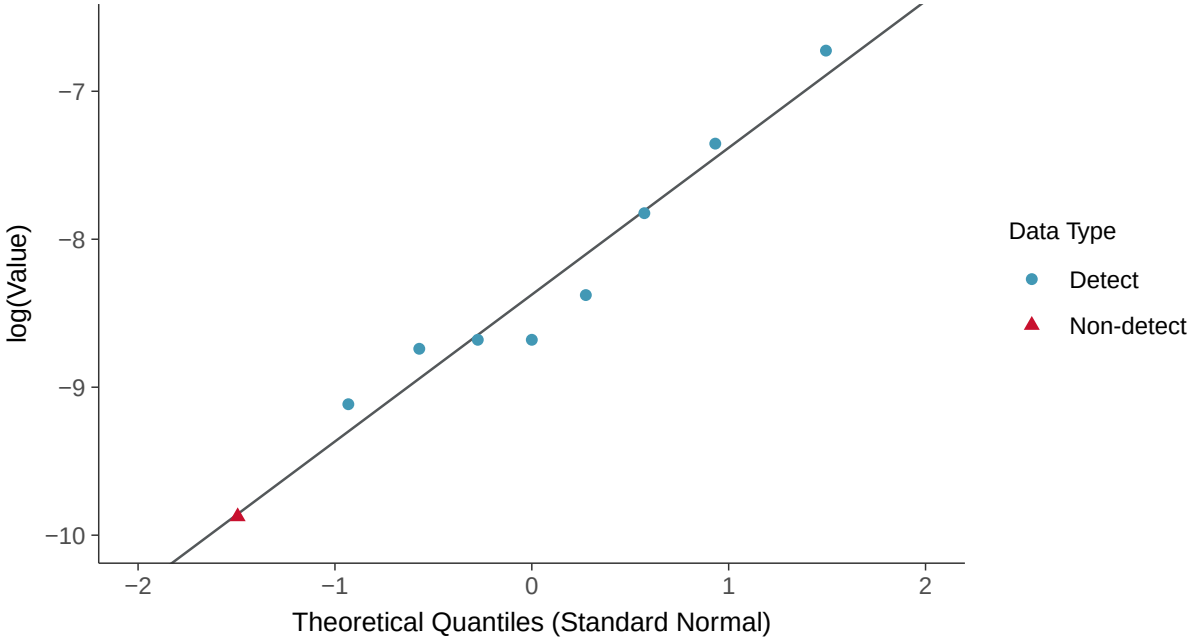
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-37 (mg/L)



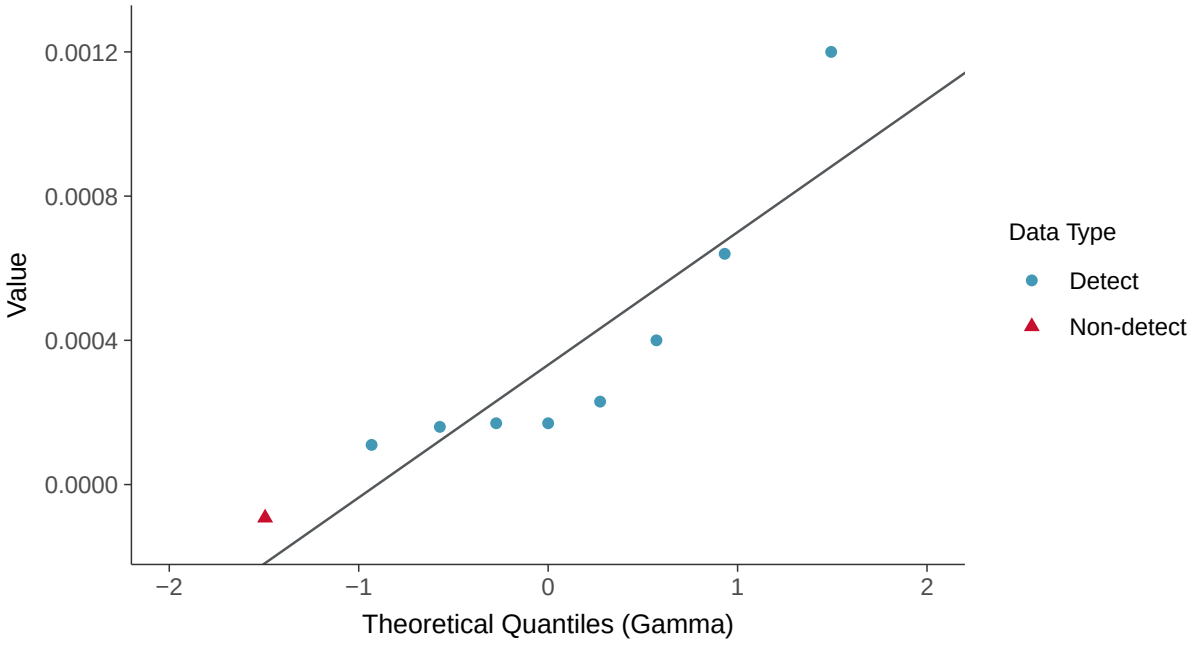
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-37 (mg/L)



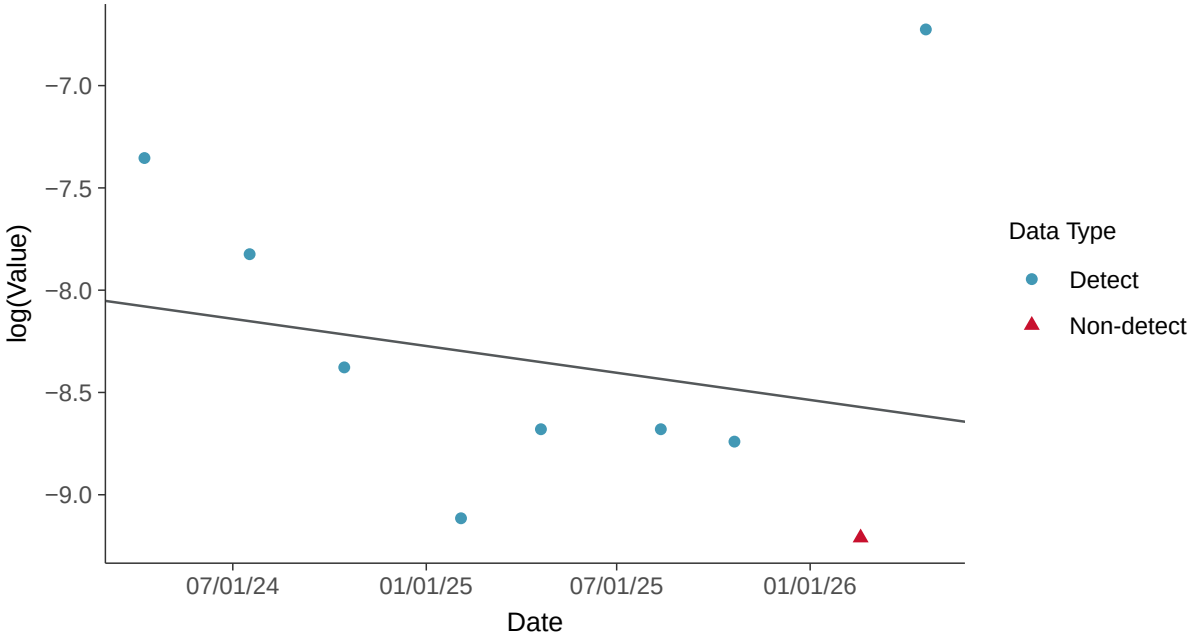
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-37 (mg/L)



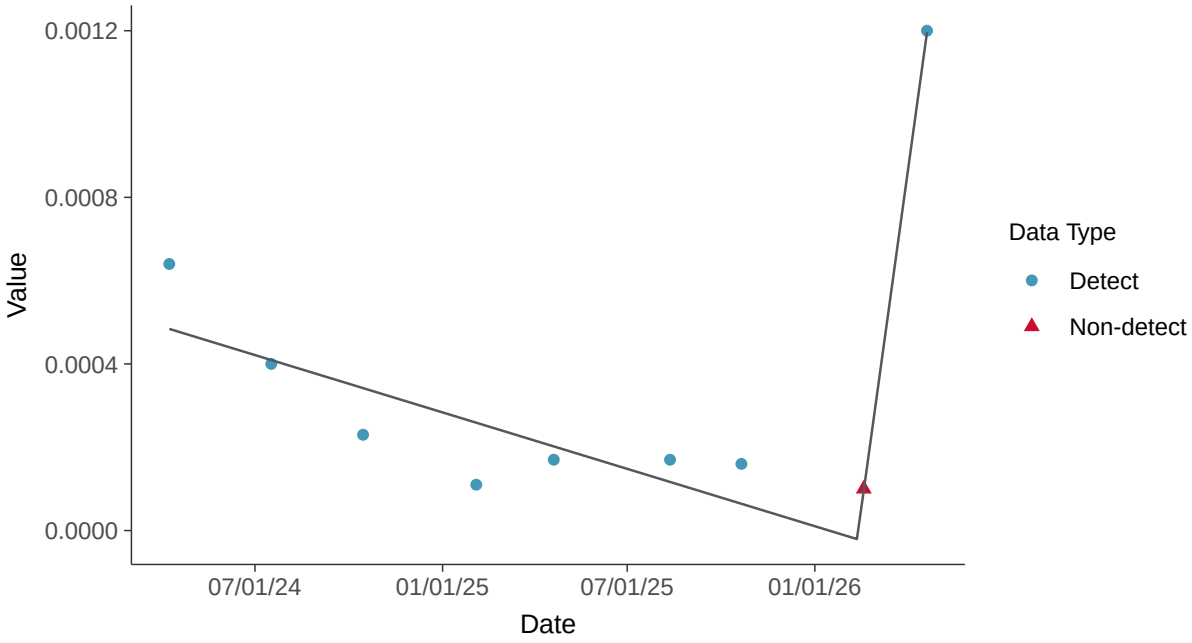
Trend Regression: Lognormal MLE

Antimony, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Antimony, MW-37 (mg/L)

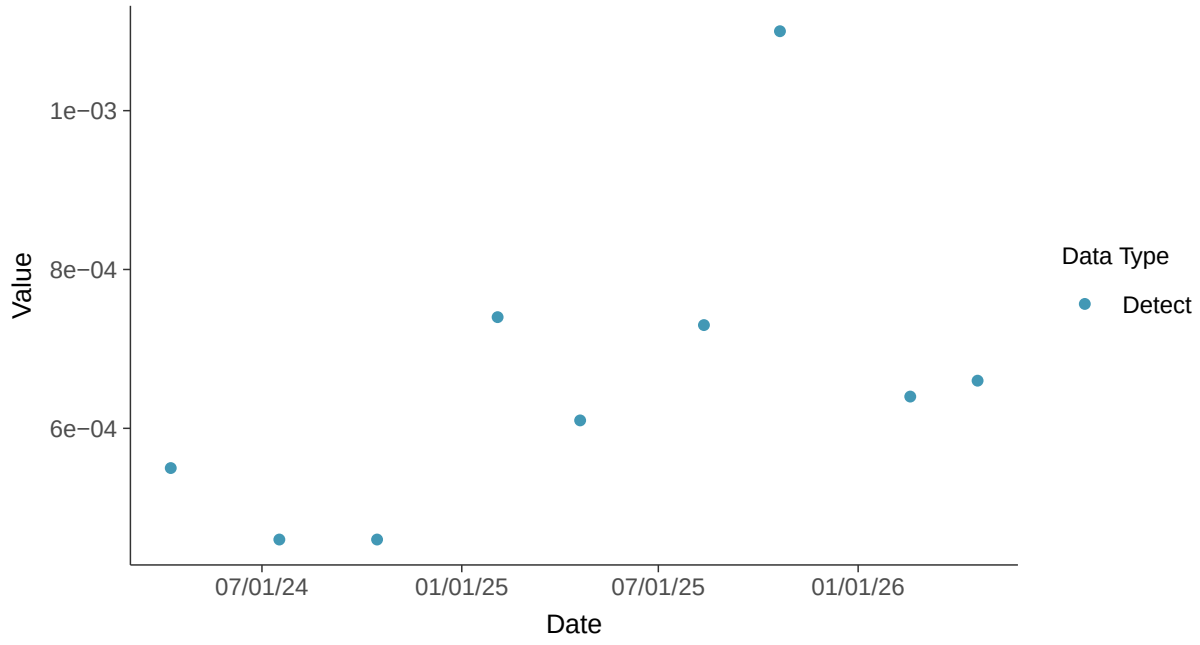


Appendix IV: Arsenic, MW-37

ID: 47_1_4_102

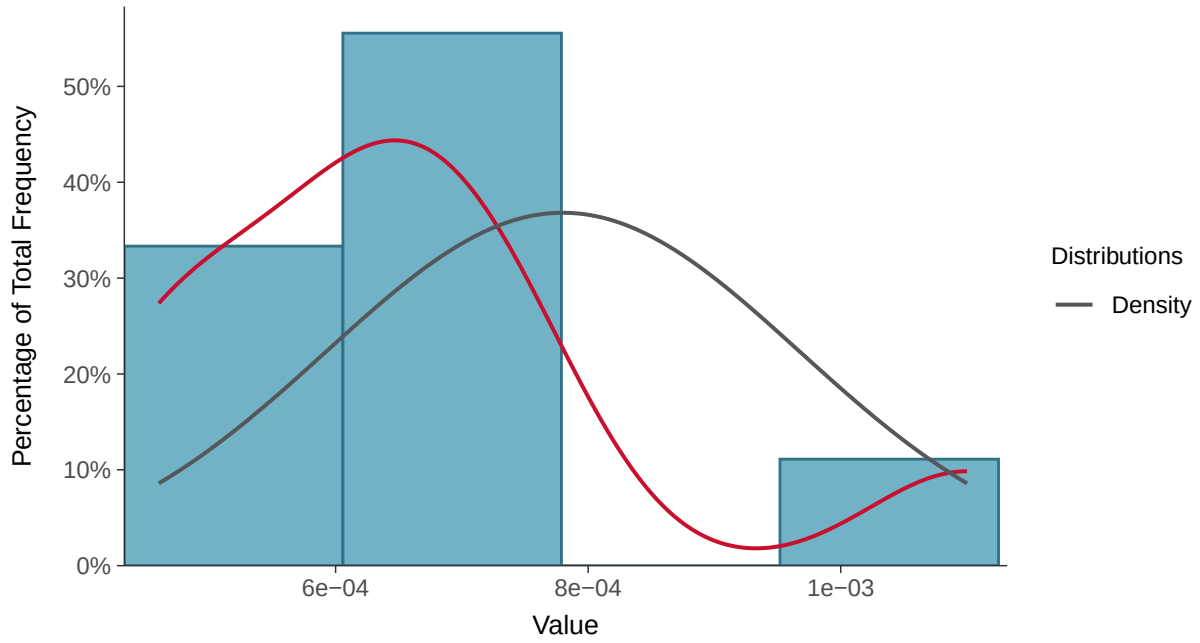
Scatter Plot

Arsenic, MW-37 (mg/L)



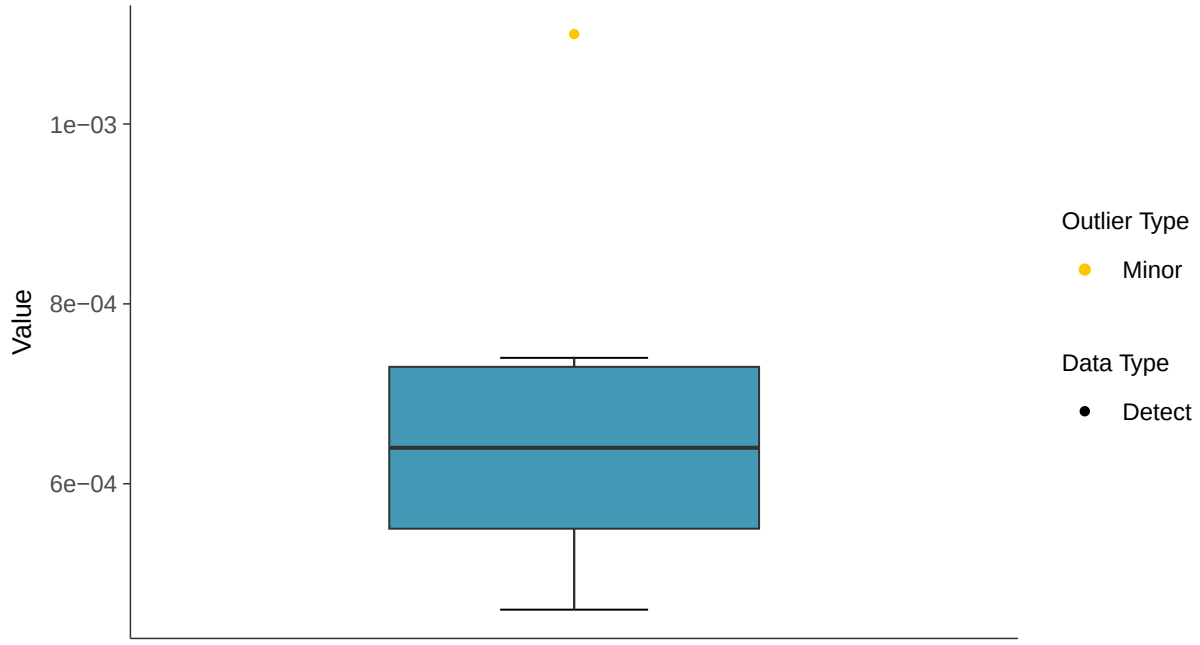
Histogram

Arsenic, MW-37 (mg/L)



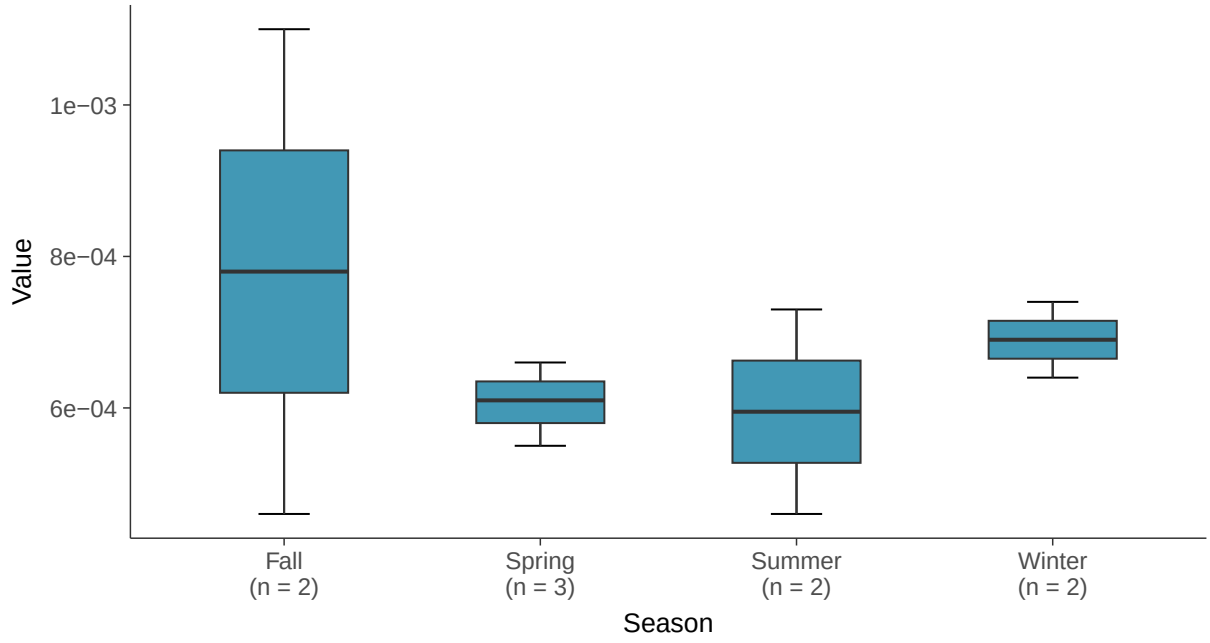
Boxplot

Arsenic, MW-37 (mg/L)



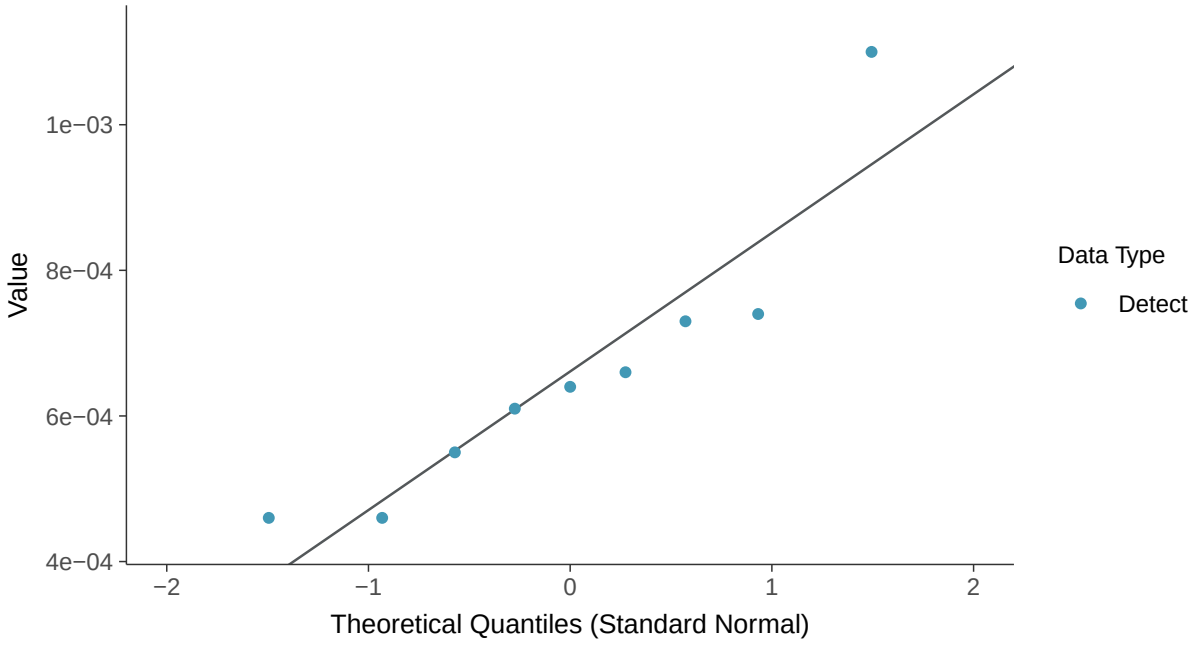
Boxplot by Season

Arsenic, MW-37 (mg/L)



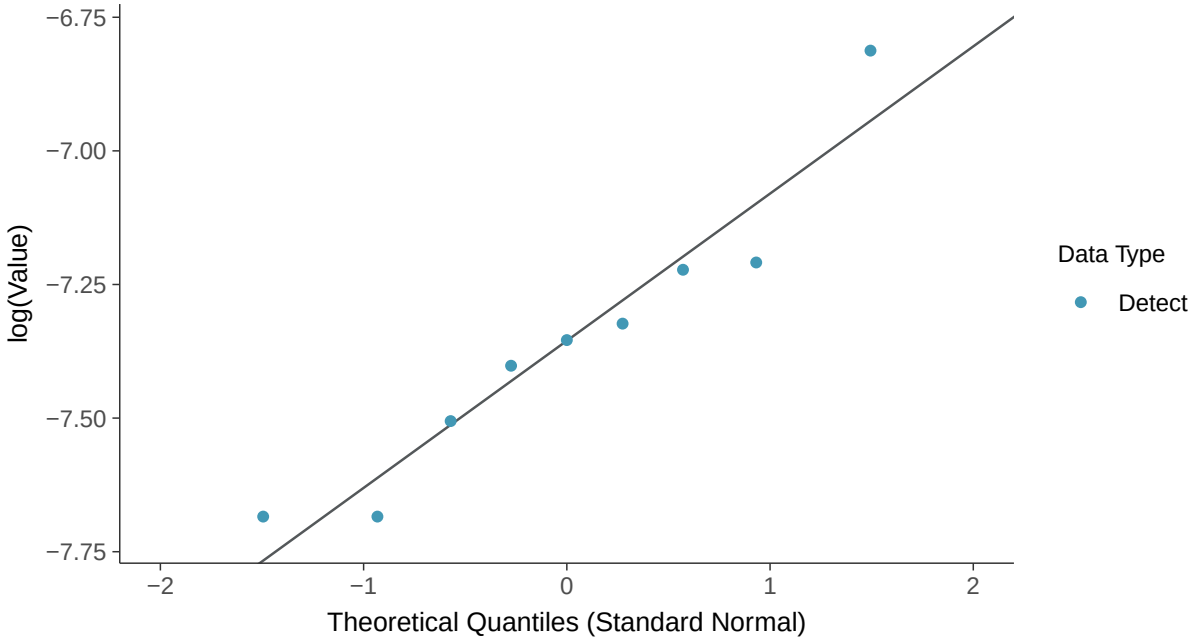
Normal Q-Q plot

Arsenic, MW-37 (mg/L)



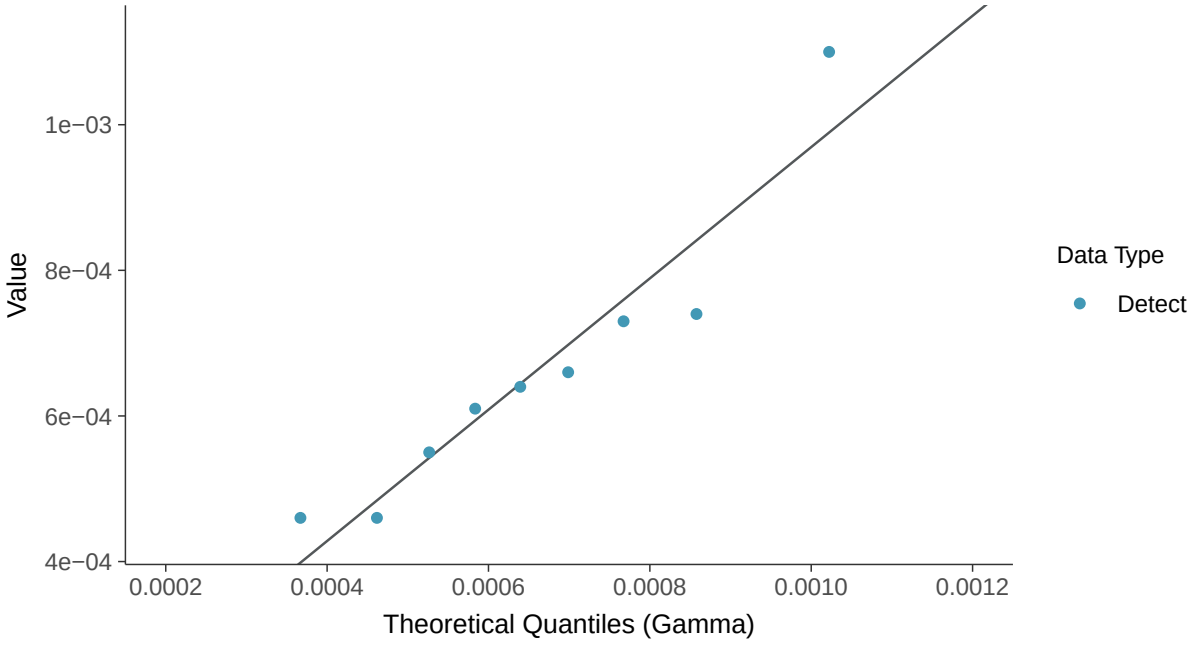
Lognormal Q-Q plot

Arsenic, MW-37 (mg/L)



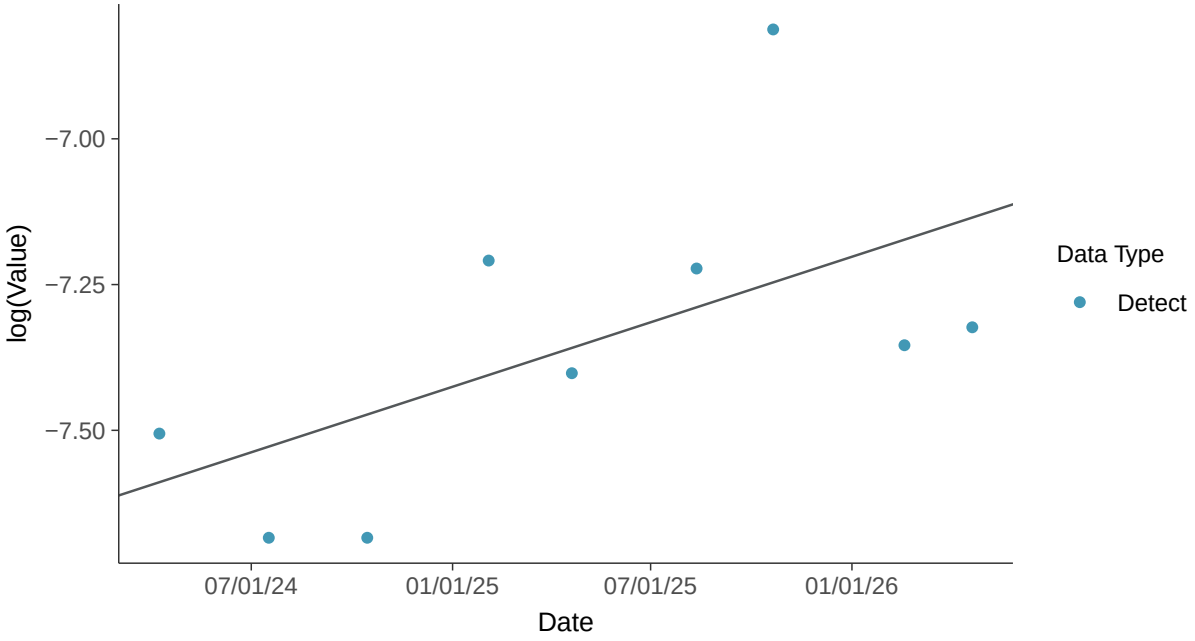
Gamma Q-Q plot

Arsenic, MW-37 (mg/L)



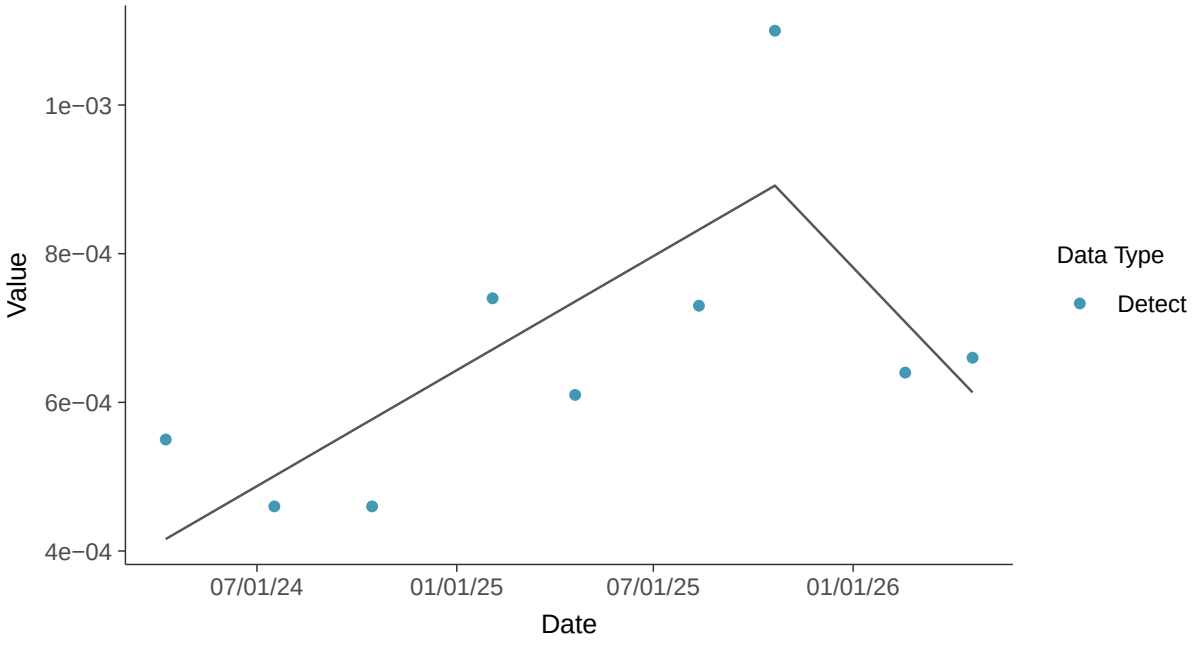
Trend Regression: Lognormal MLE

Arsenic, MW-37 (mg/L)



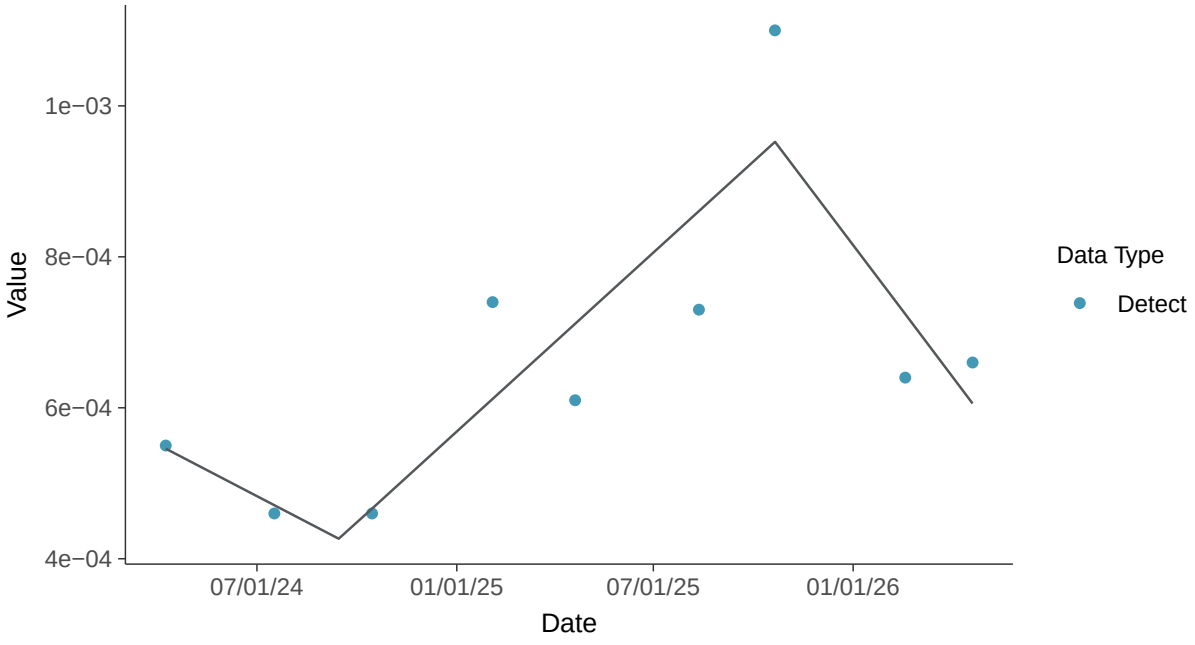
Trend Regression: Piecewise Linear-Linear

Arsenic, MW-37 (mg/L)



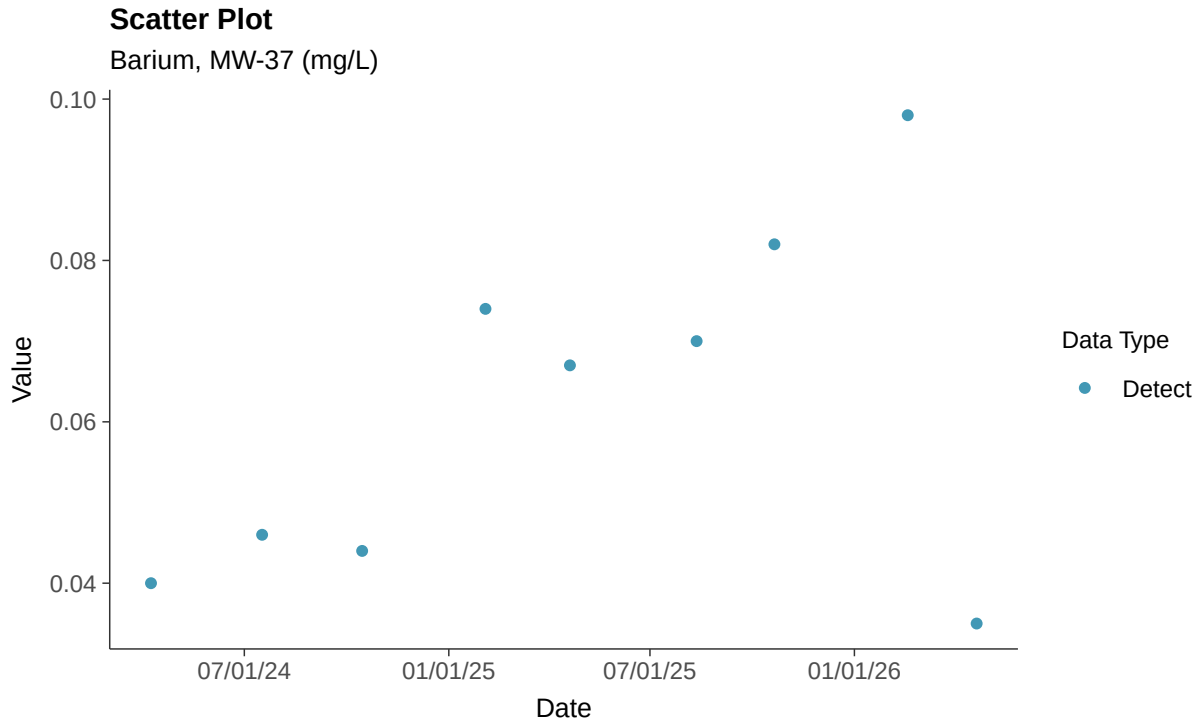
Trend Regression: Piecewise Linear-Linear-Linear

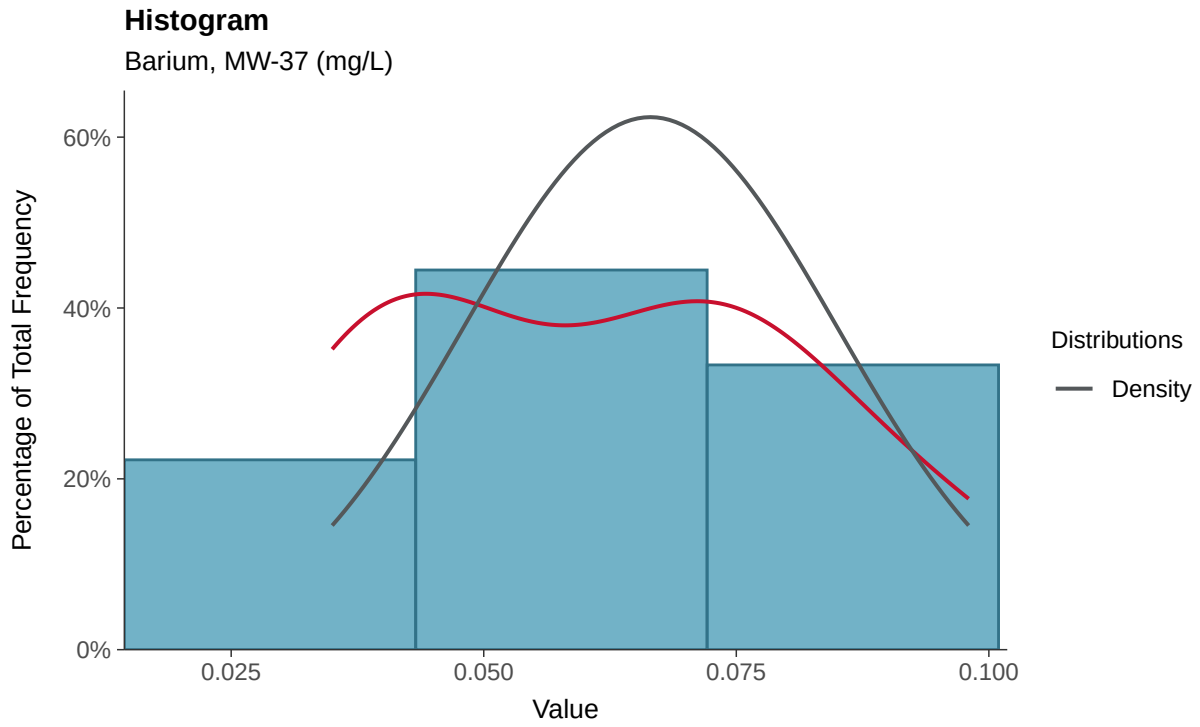
Arsenic, MW-37 (mg/L)



Appendix IV: Barium, MW-37

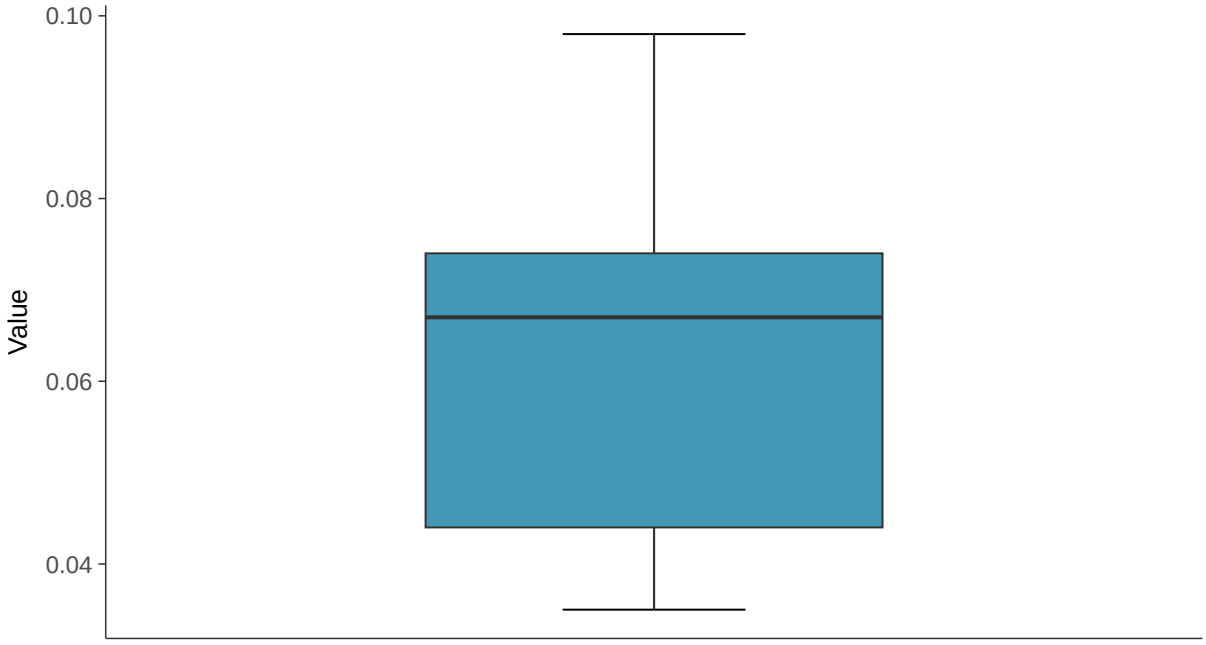
ID: 47_1_4_103





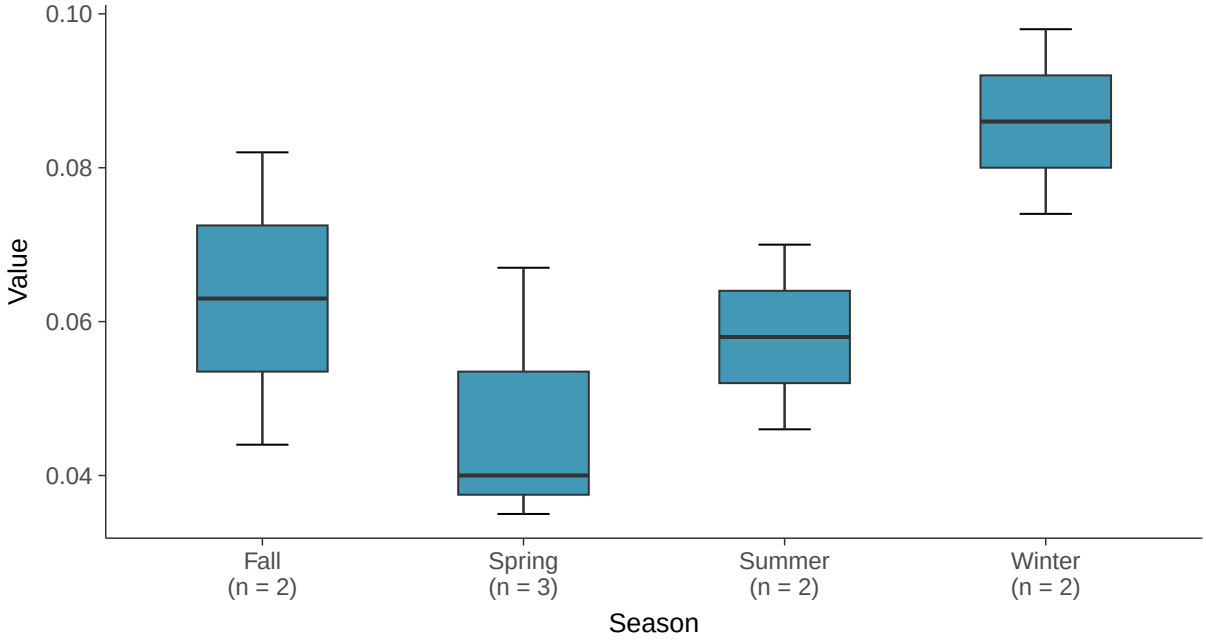
Boxplot

Barium, MW-37 (mg/L)



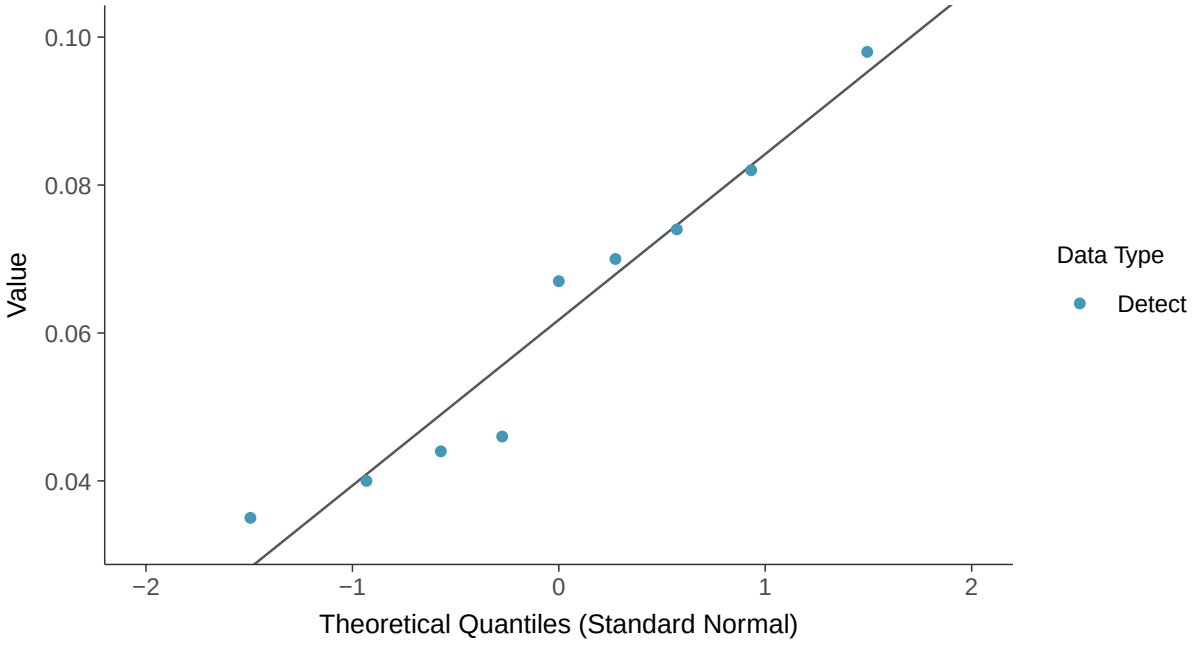
Boxplot by Season

Barium, MW-37 (mg/L)



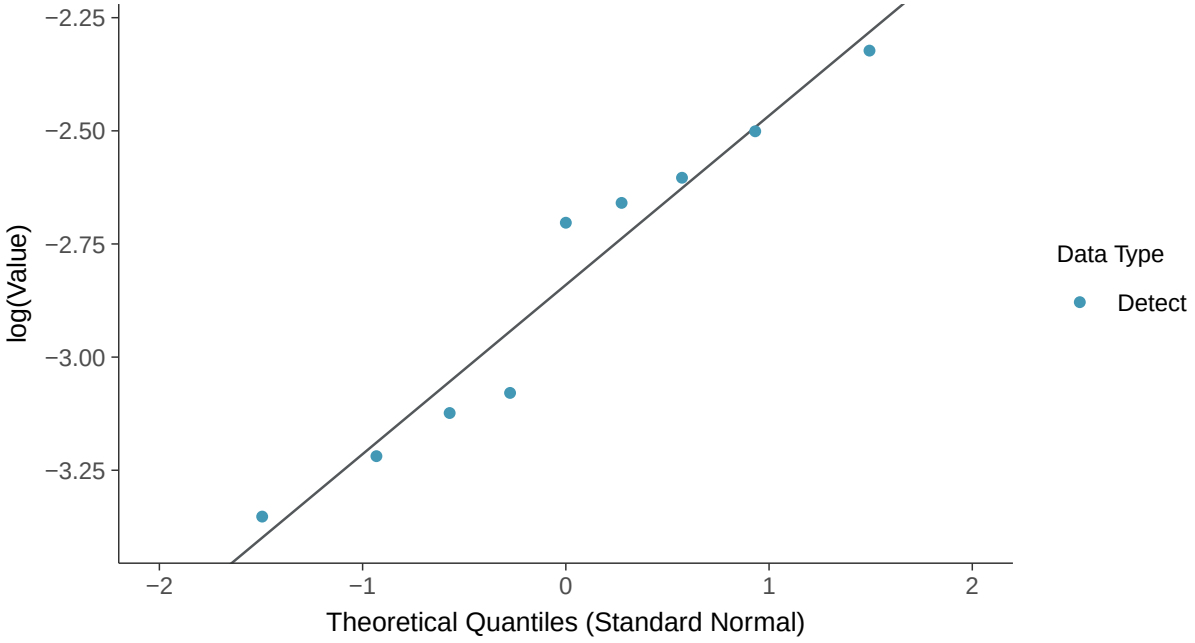
Normal Q-Q plot

Barium, MW-37 (mg/L)



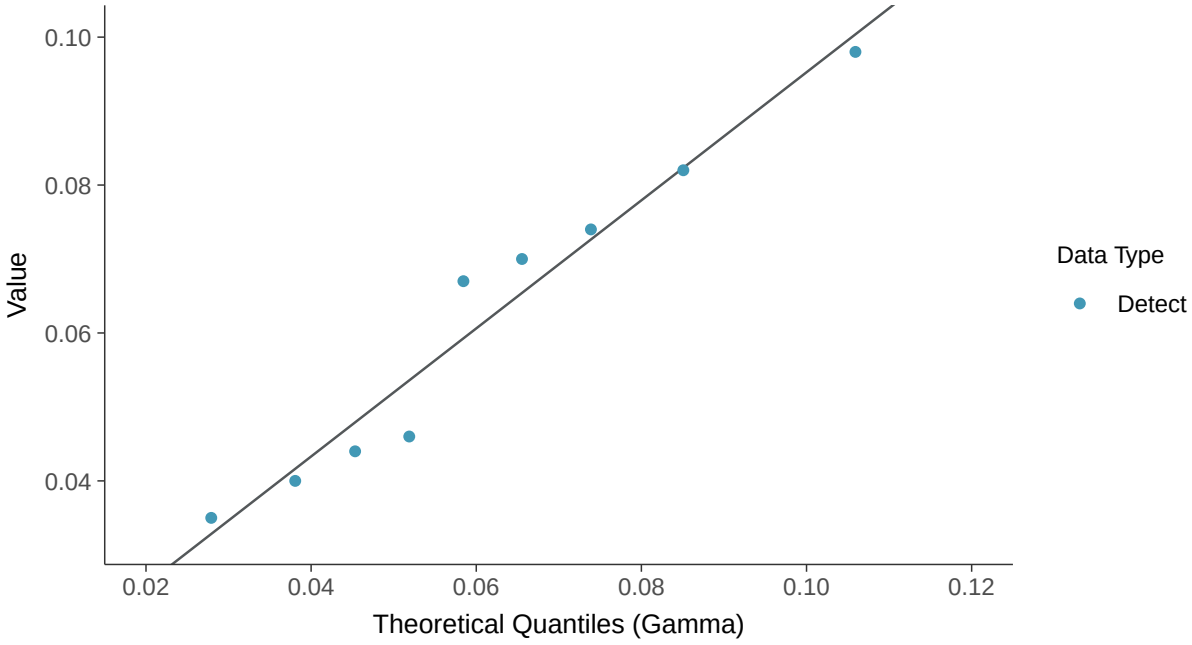
Lognormal Q-Q plot

Barium, MW-37 (mg/L)



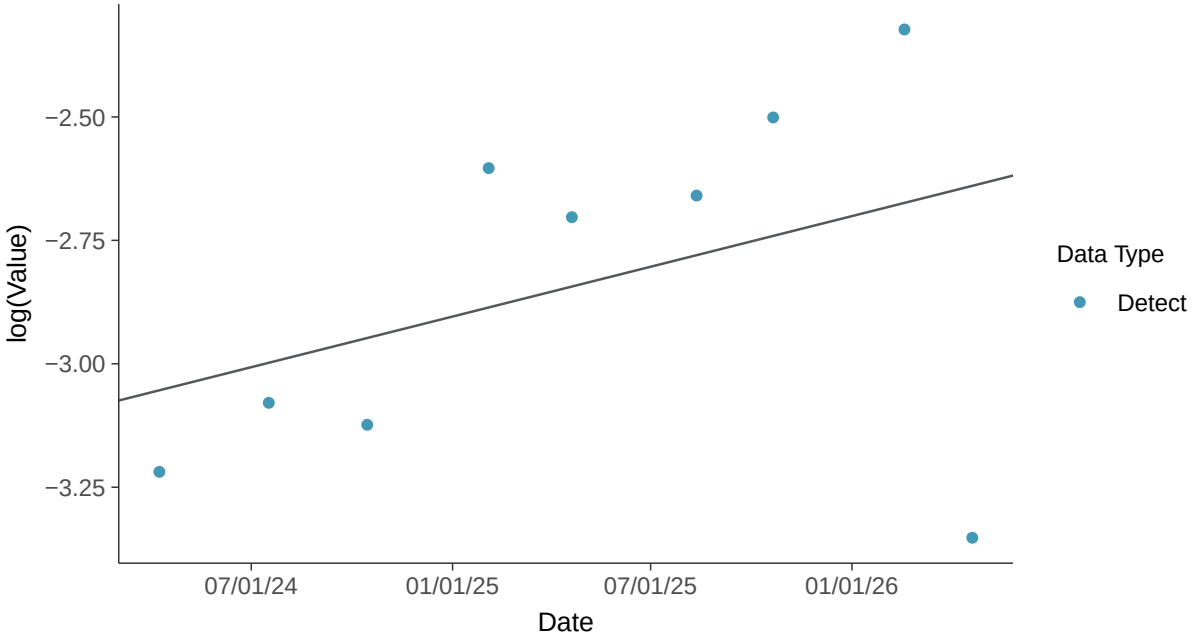
Gamma Q-Q plot

Barium, MW-37 (mg/L)



Trend Regression: Lognormal MLE

Barium, MW-37 (mg/L)

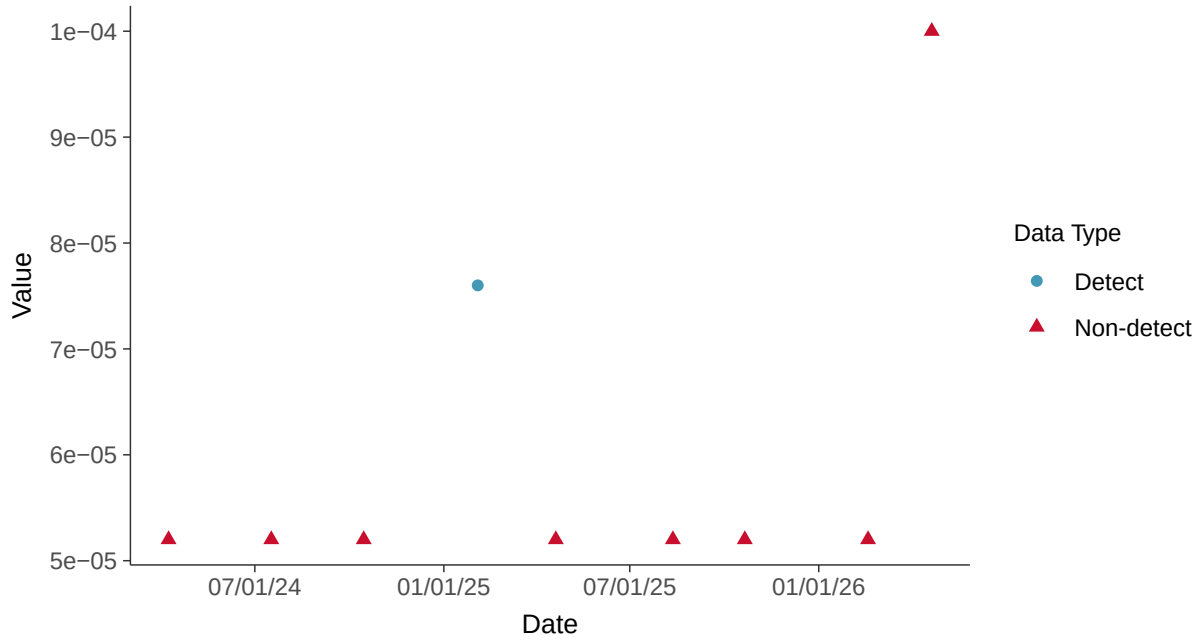


Appendix IV: Beryllium, MW-37

ID: 47_1_4_104

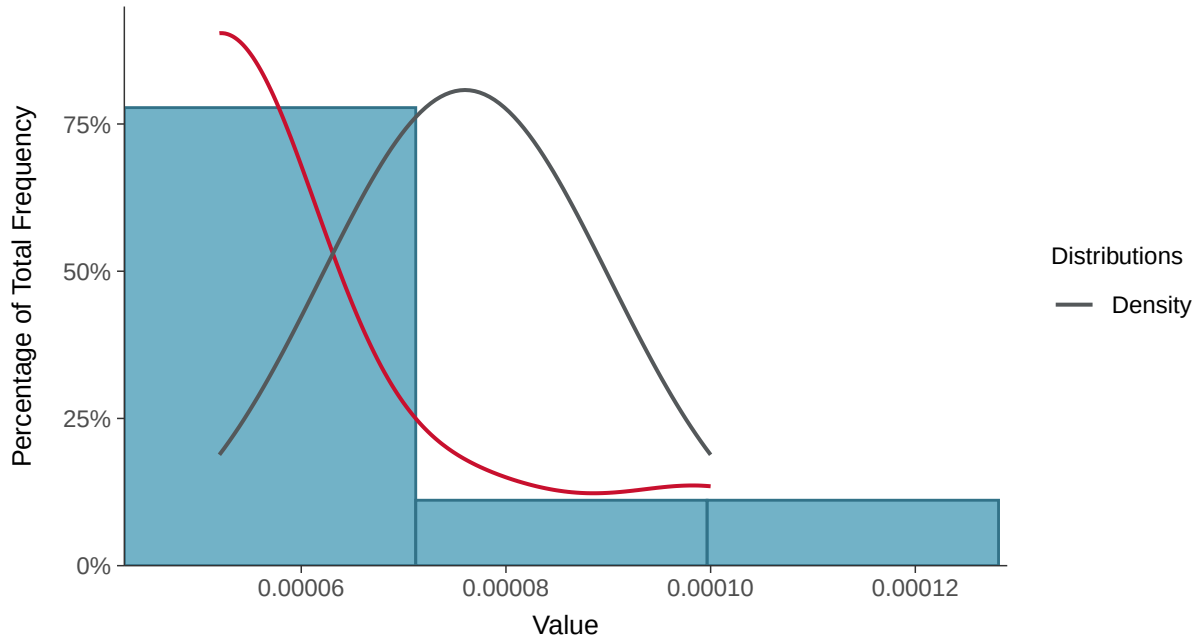
Scatter Plot

Beryllium, MW-37 (mg/L)



Histogram

Beryllium, MW-37 (mg/L)

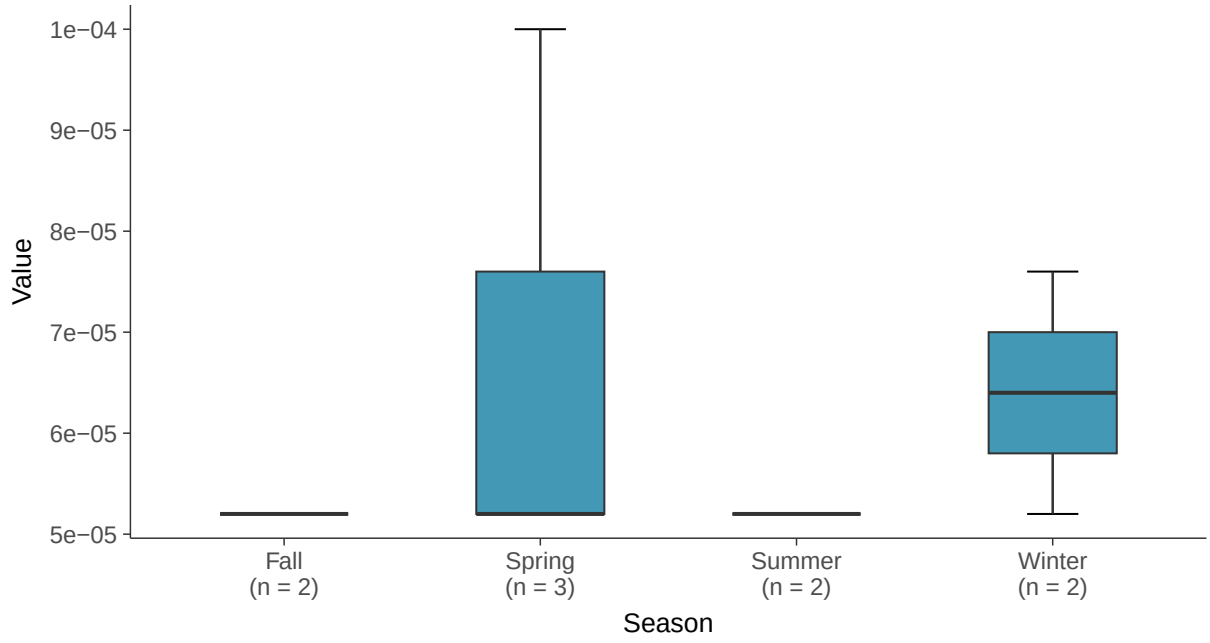


Boxplot

Beryllium, MW-37 (mg/L)

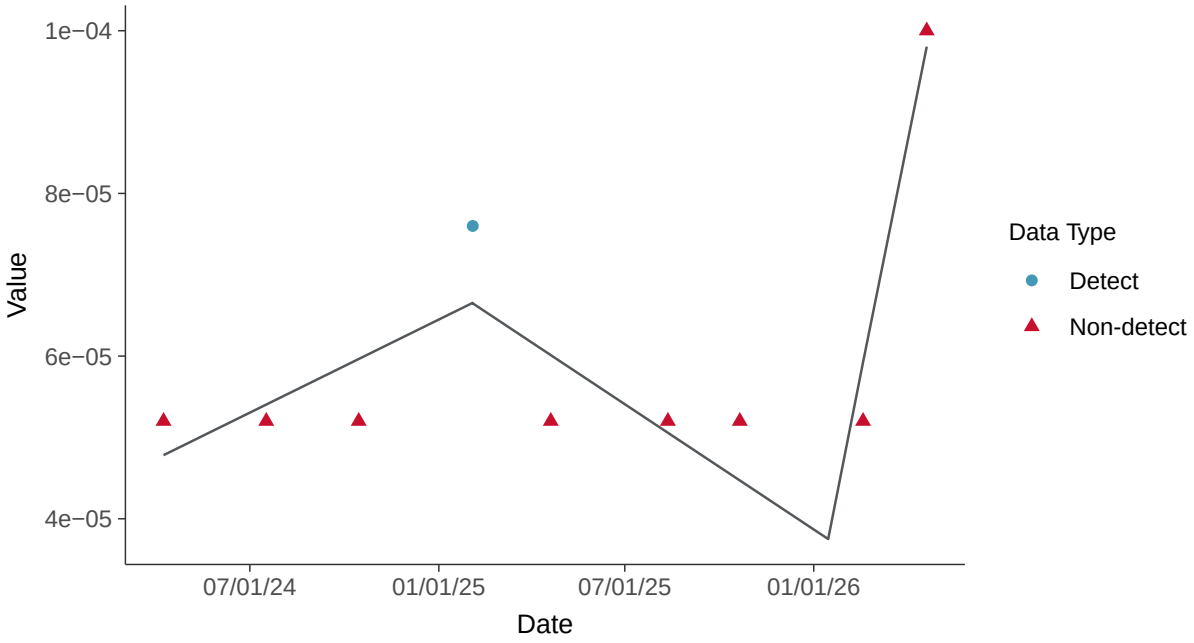
Boxplot by Season

Beryllium, MW-37 (mg/L)



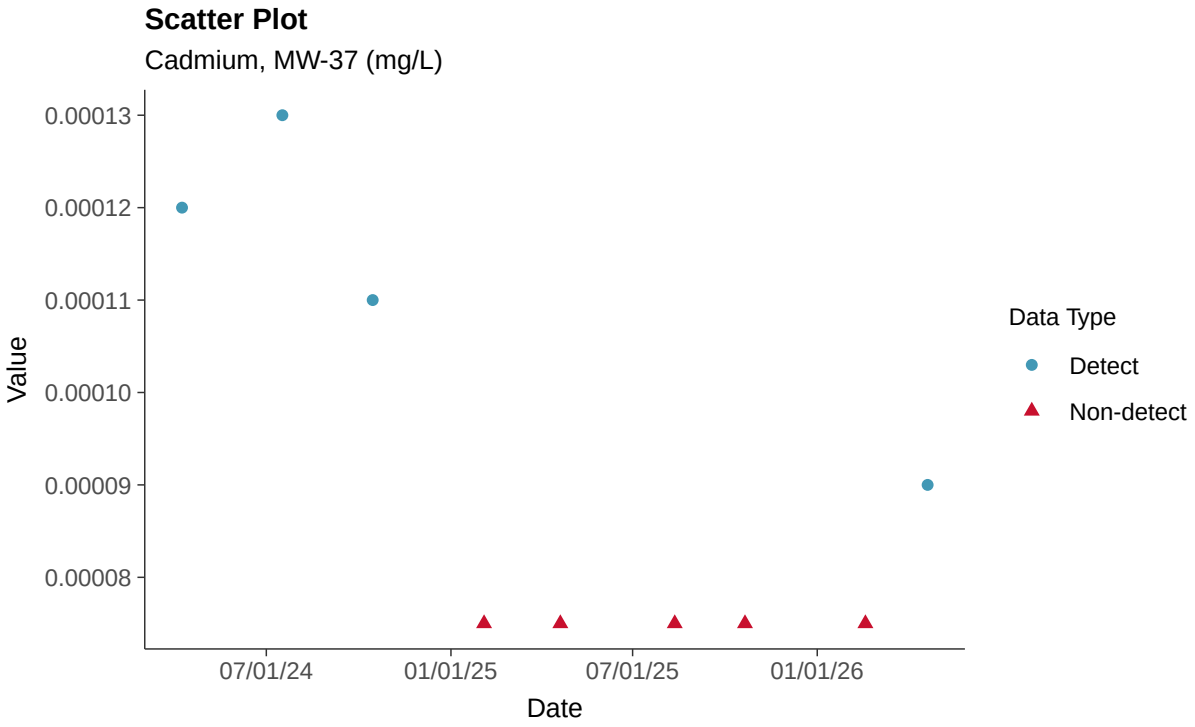
Trend Regression: Piecewise Linear-Linear-Linear

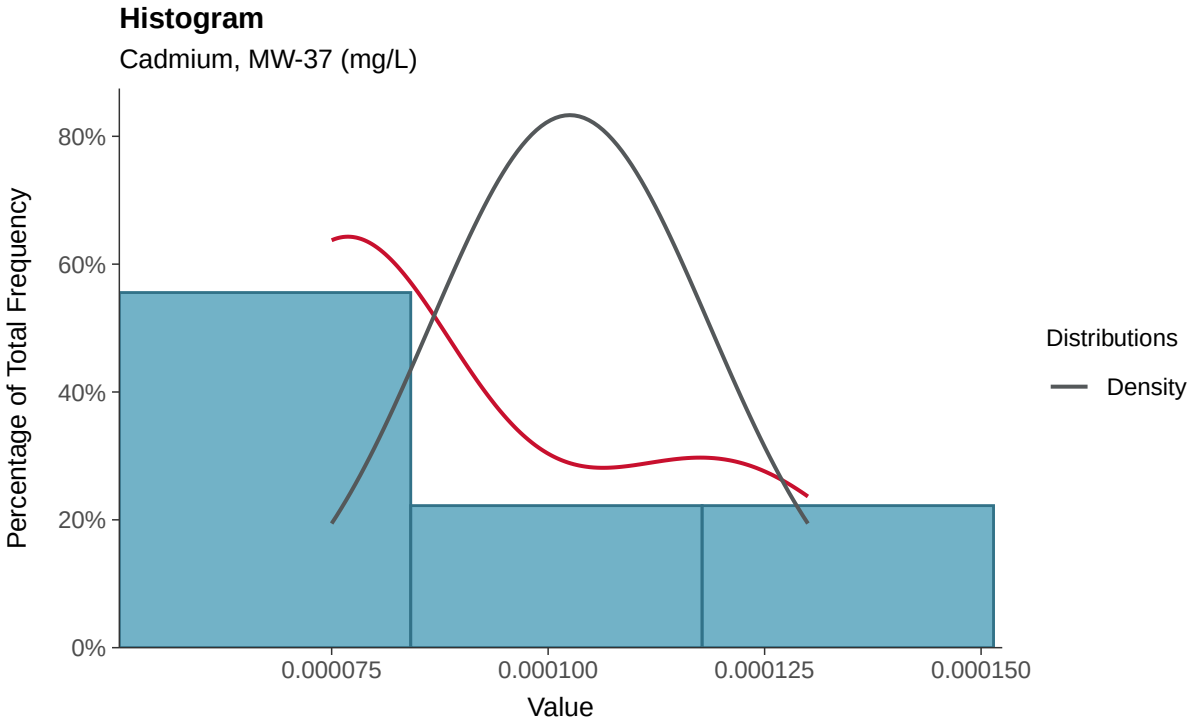
Beryllium, MW-37 (mg/L)



Appendix IV: Cadmium, MW-37

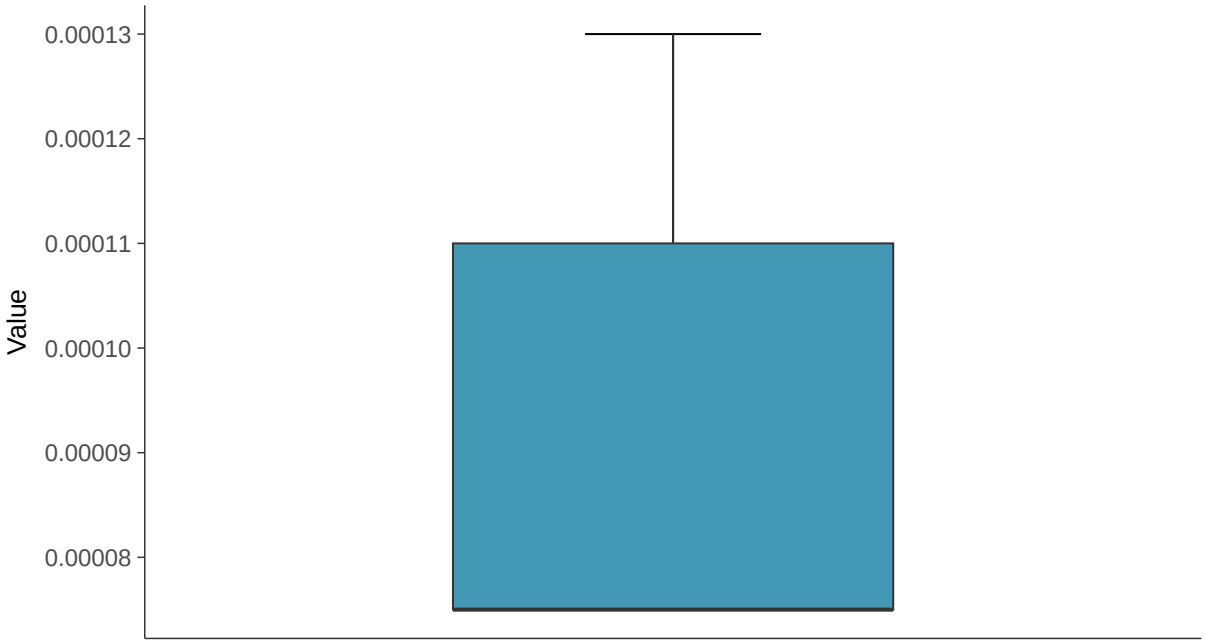
ID: 47_1_4_106





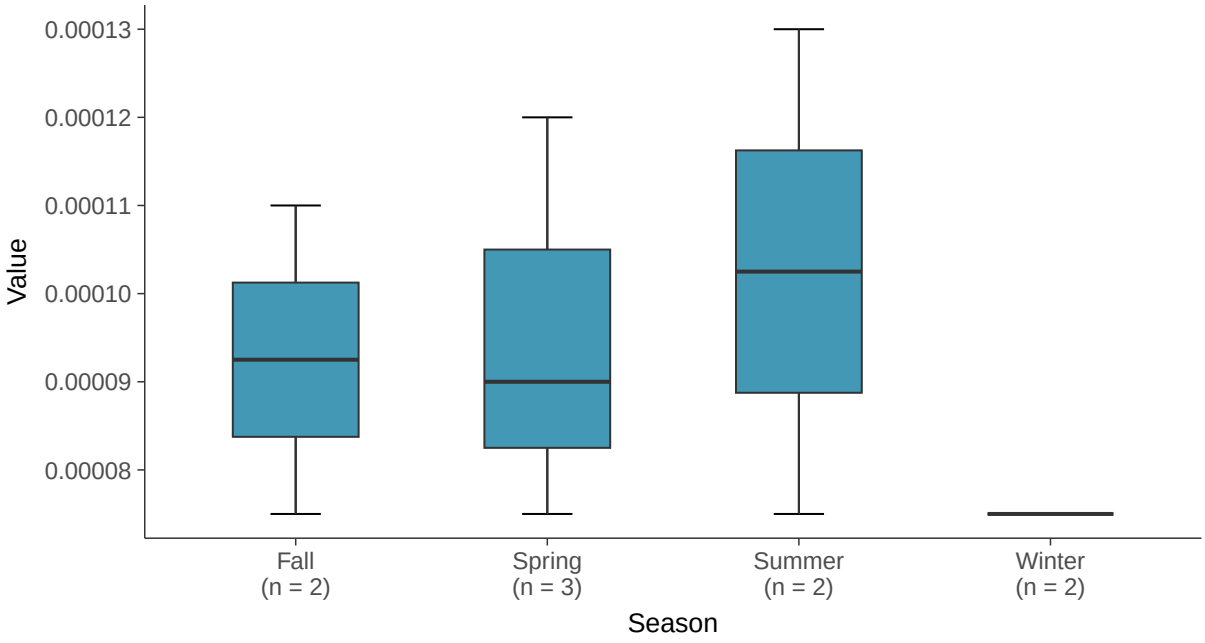
Boxplot

Cadmium, MW-37 (mg/L)



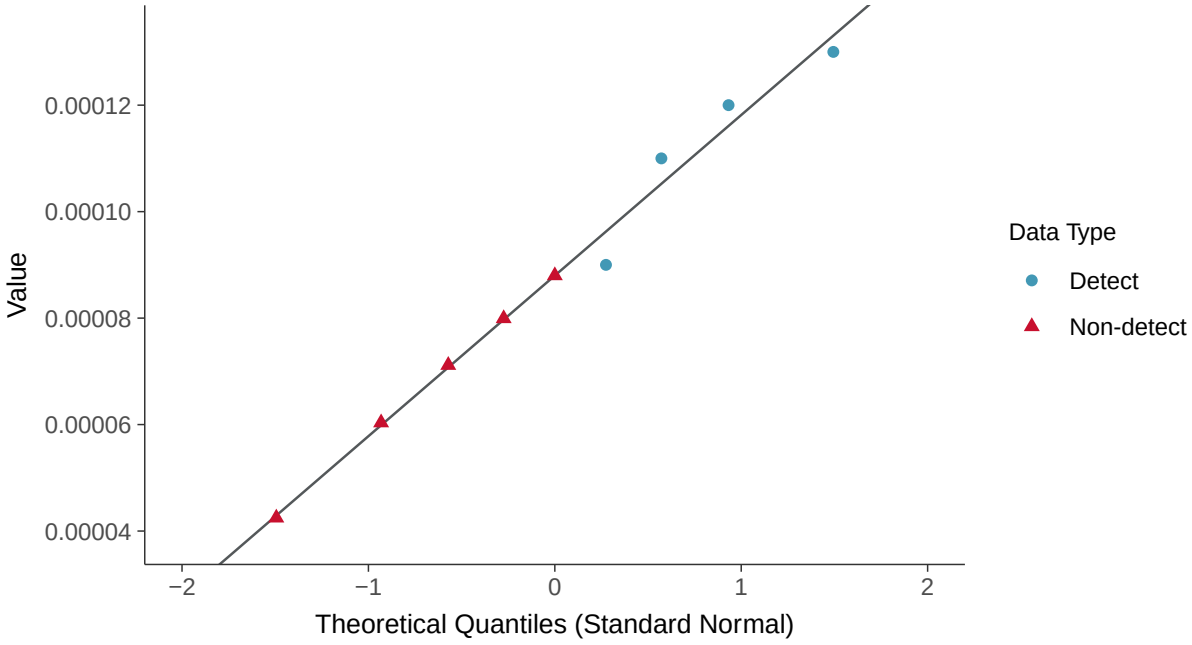
Boxplot by Season

Cadmium, MW-37 (mg/L)



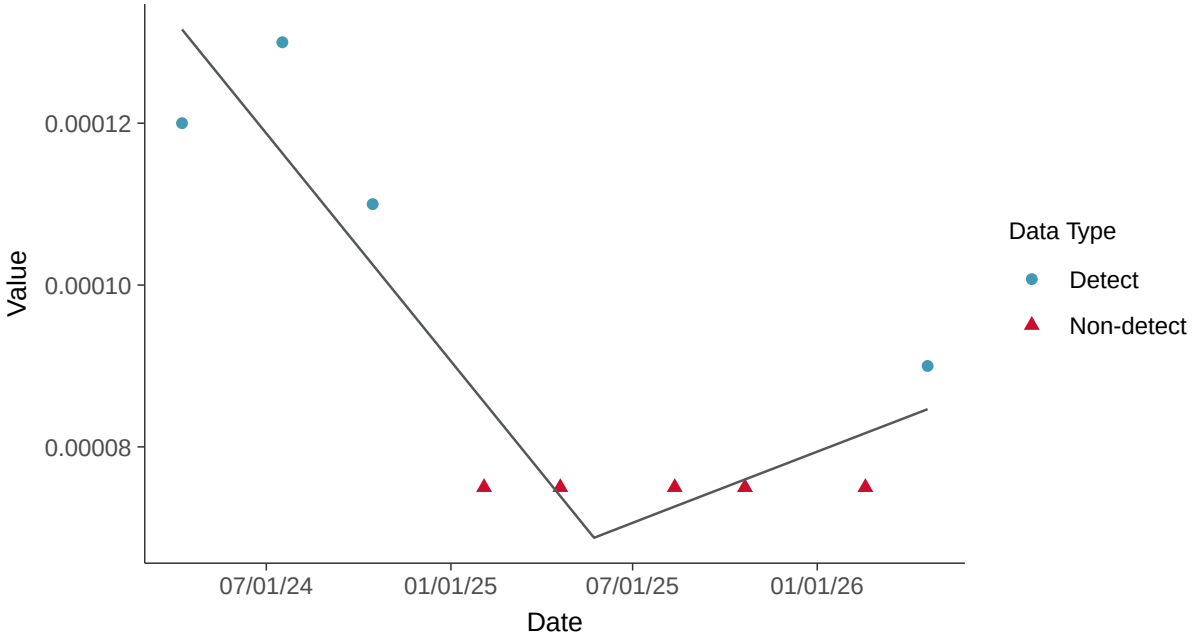
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-37 (mg/L)



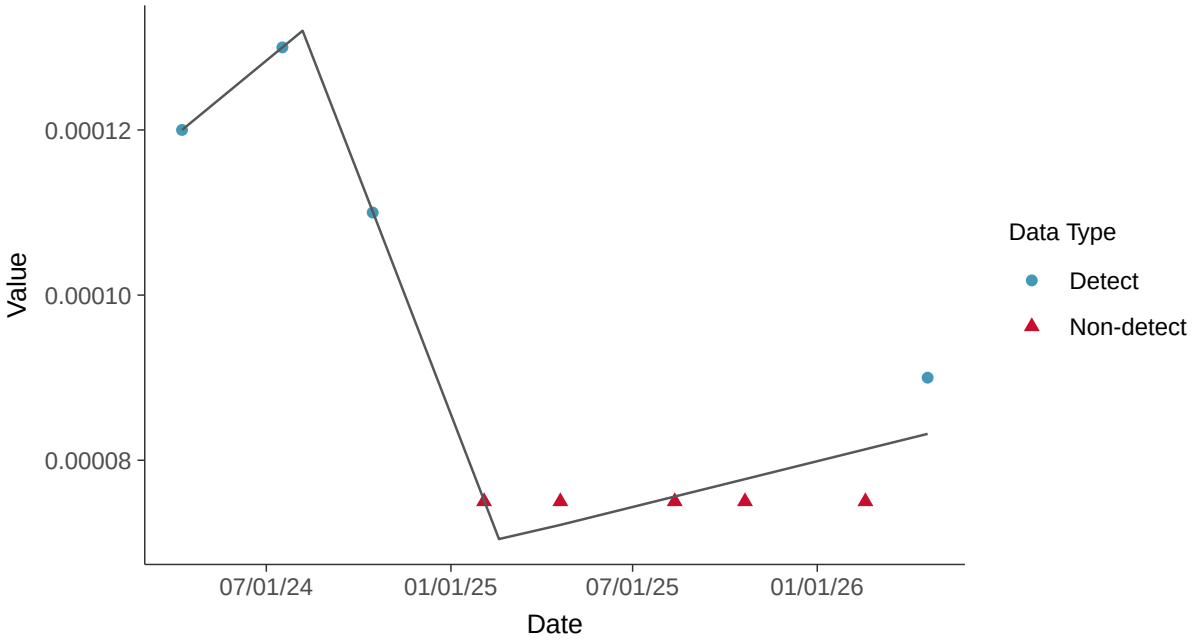
Trend Regression: Piecewise Linear-Linear

Cadmium, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-37 (mg/L)

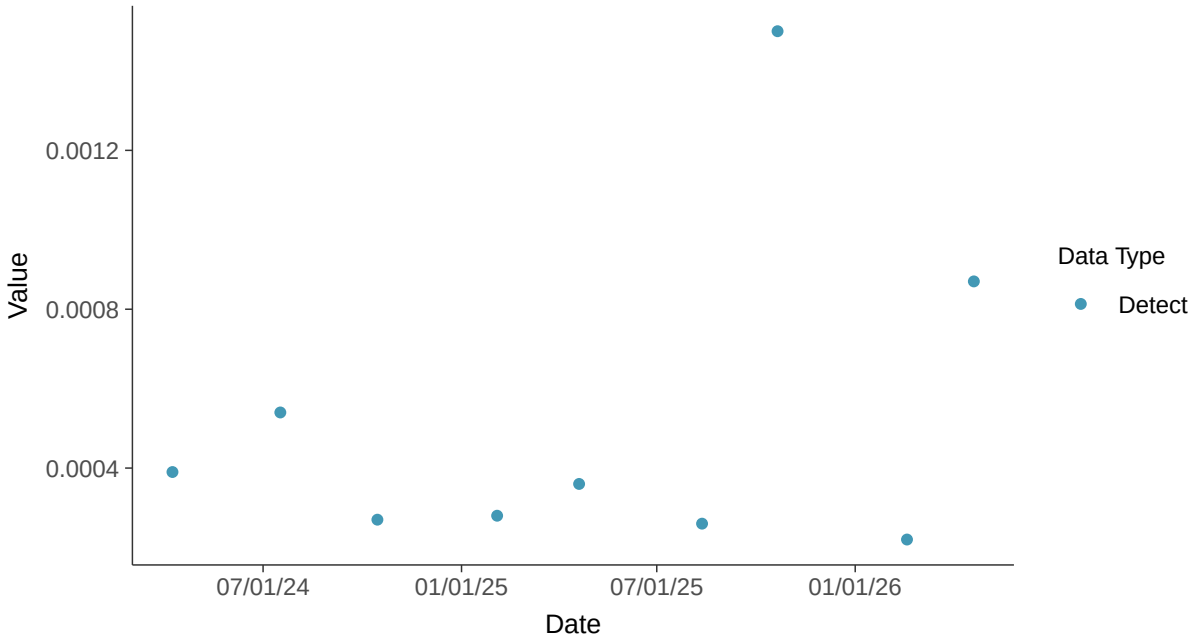


Appendix IV: Chromium, Total, MW-37

ID: 47_1_4_109

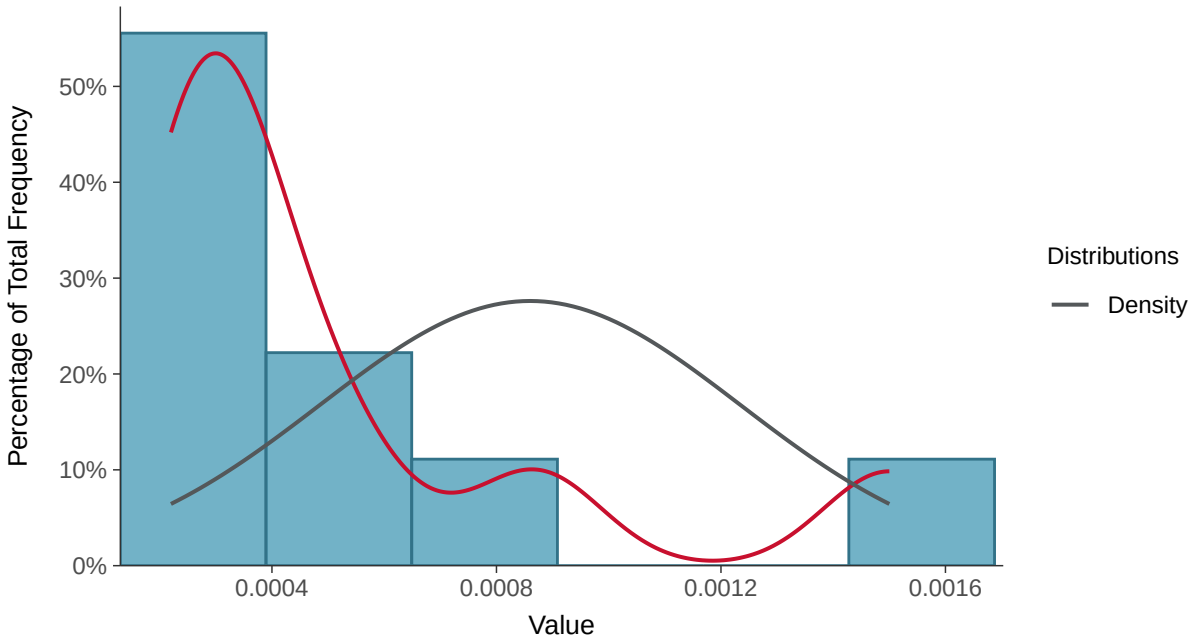
Scatter Plot

Chromium, Total, MW-37 (mg/L)



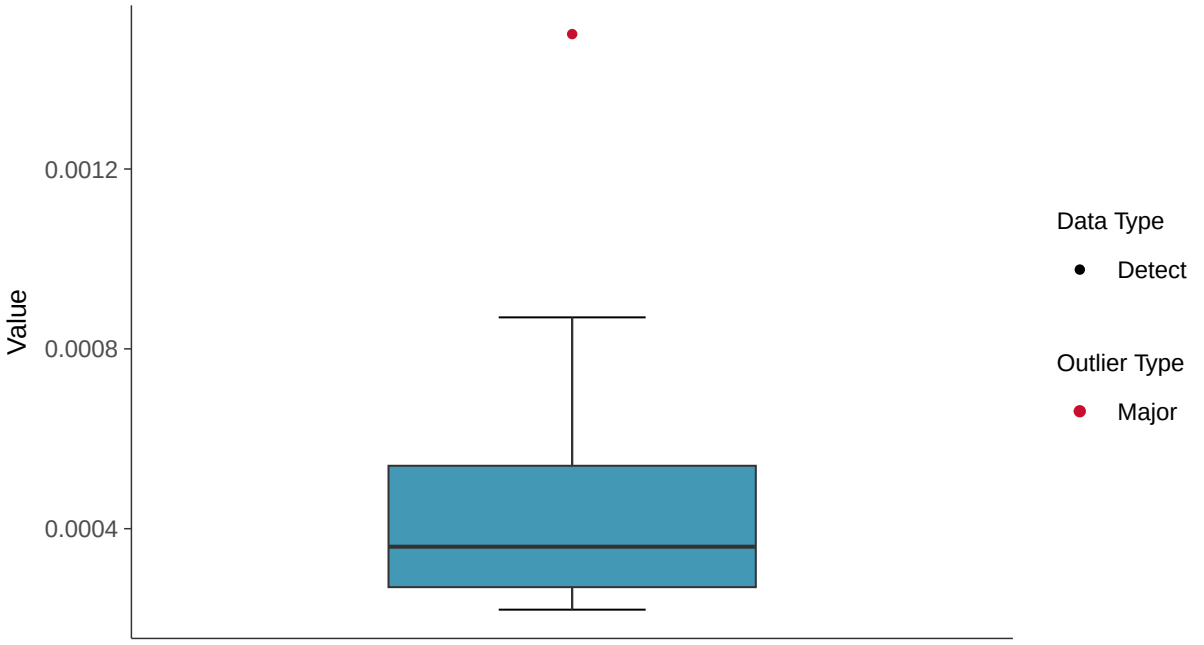
Histogram

Chromium, Total, MW-37 (mg/L)



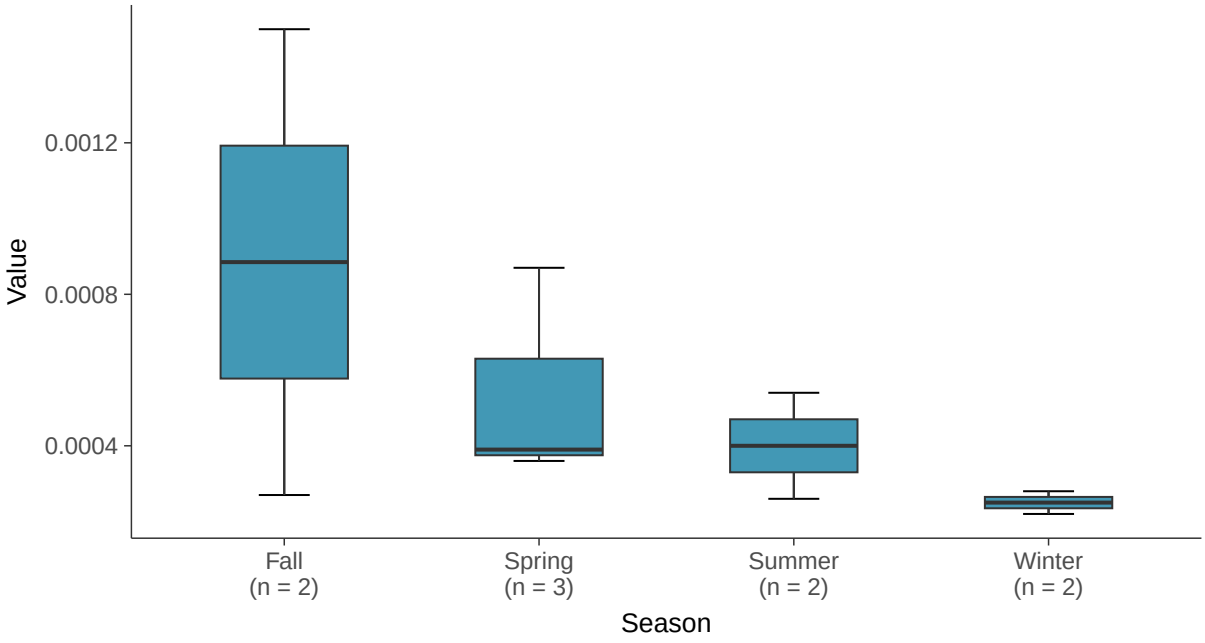
Boxplot

Chromium, Total, MW-37 (mg/L)



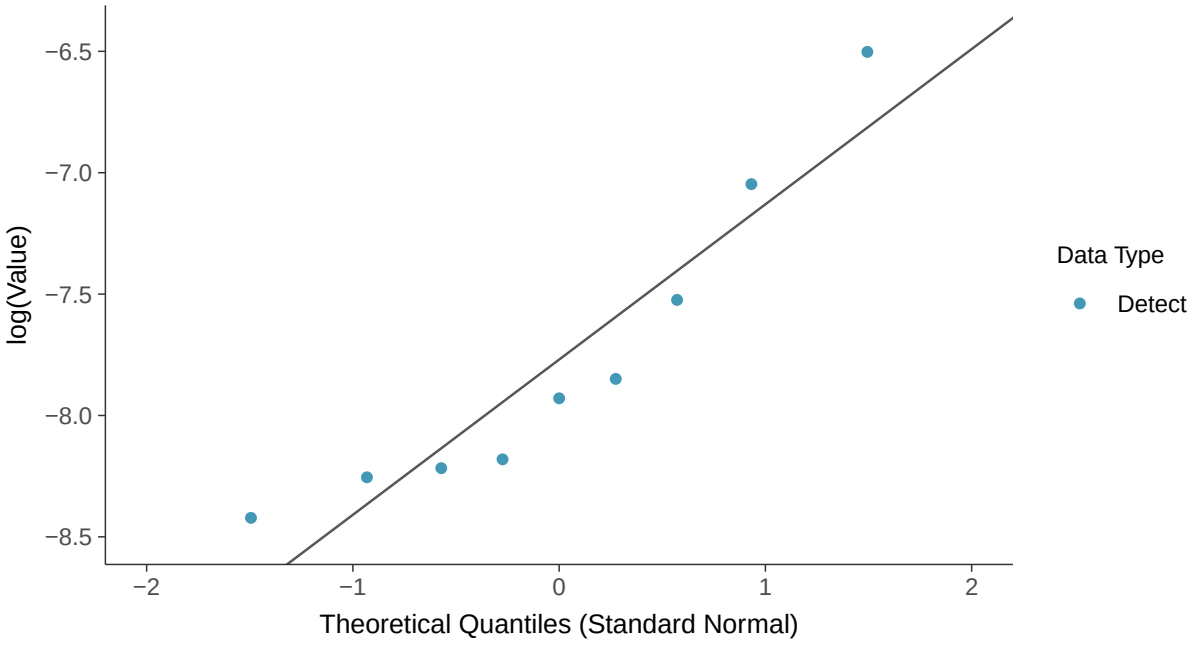
Boxplot by Season

Chromium, Total, MW-37 (mg/L)



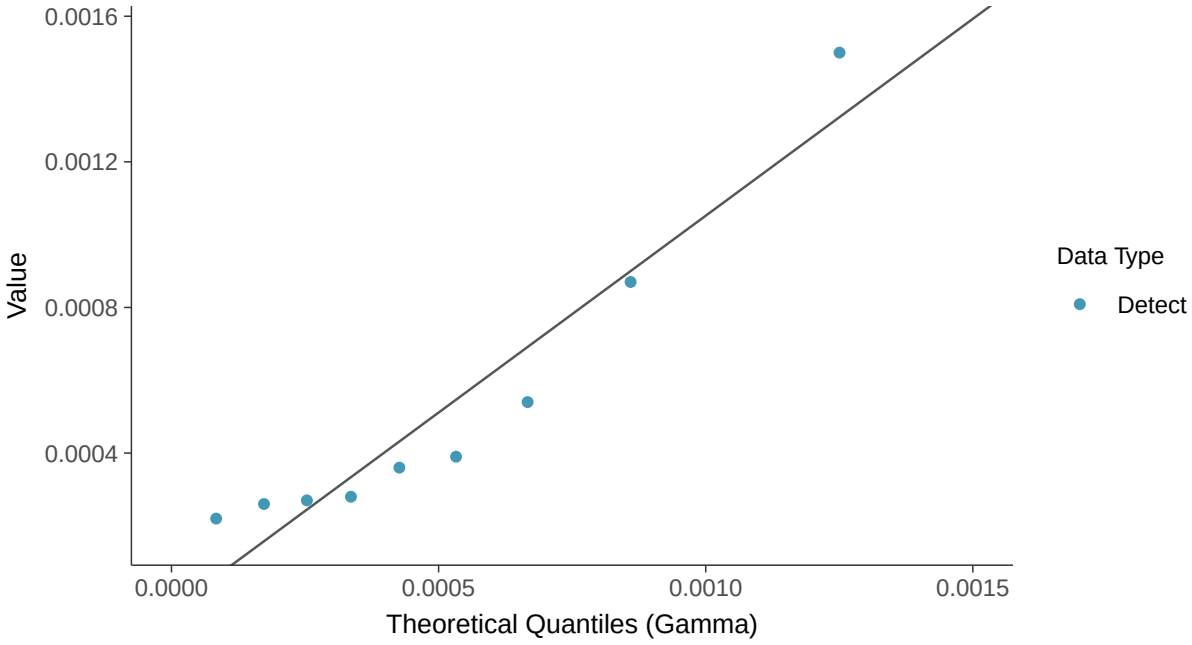
Lognormal Q-Q plot

Chromium, Total, MW-37 (mg/L)



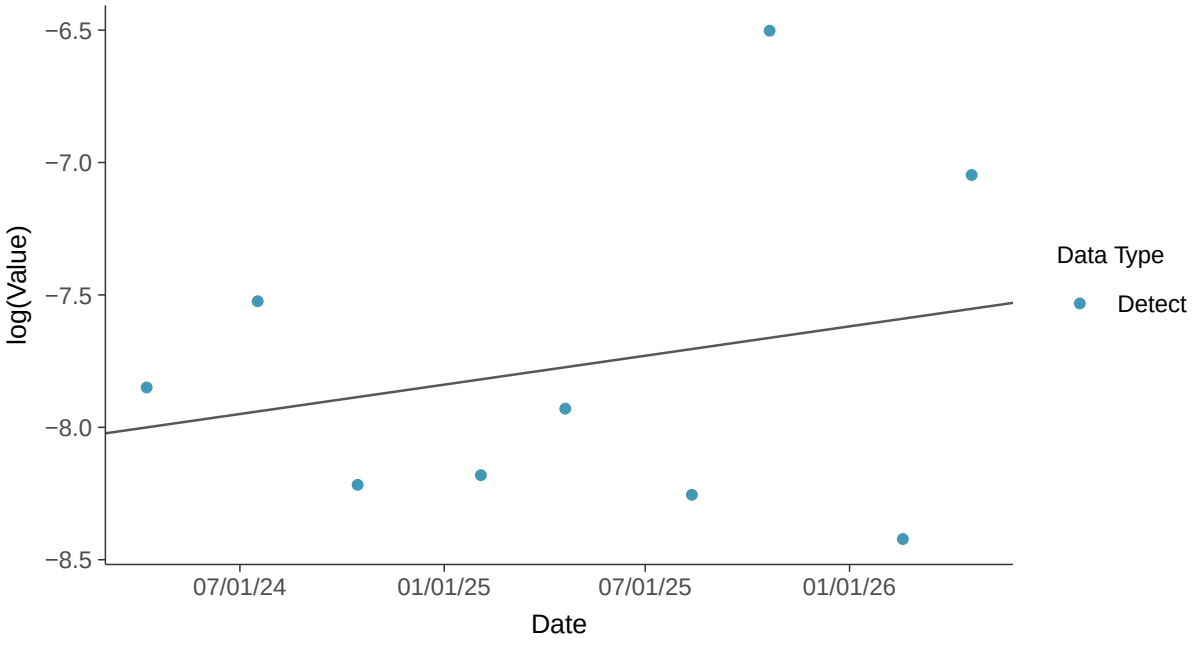
Gamma Q-Q plot

Chromium, Total, MW-37 (mg/L)



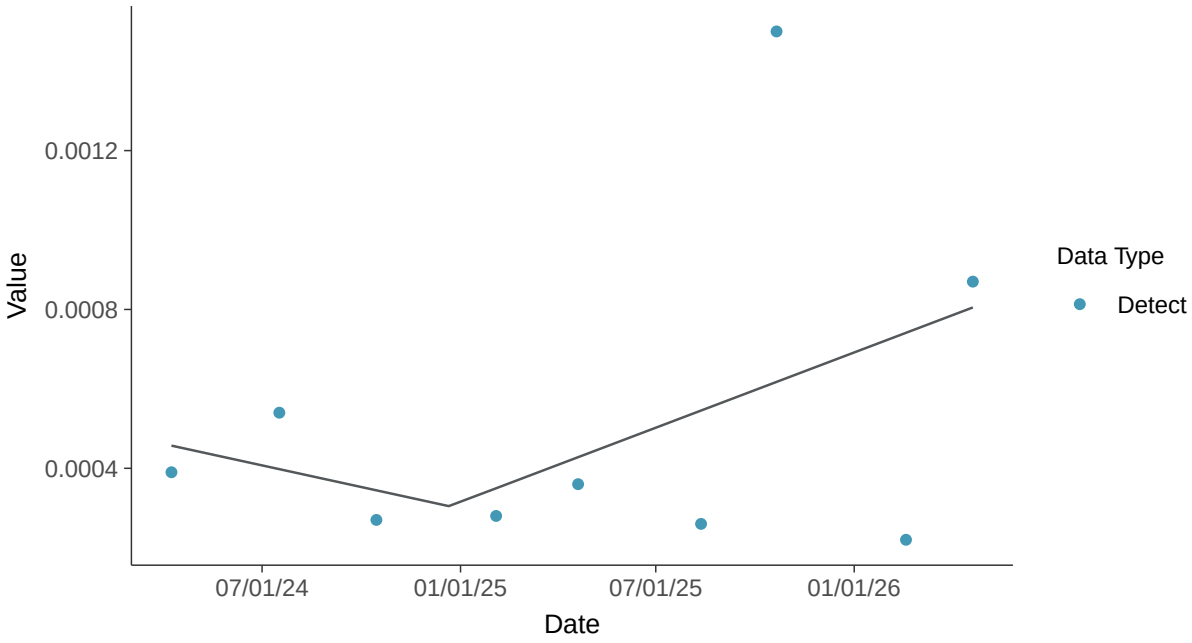
Trend Regression: Lognormal MLE

Chromium, Total, MW-37 (mg/L)



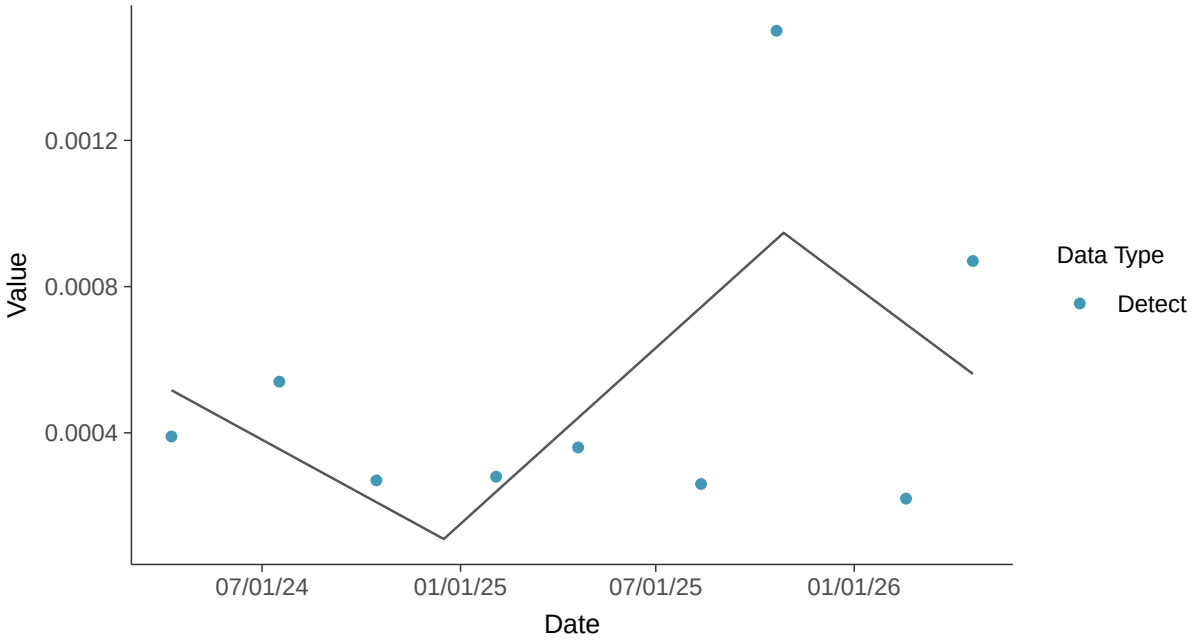
Trend Regression: Piecewise Linear-Linear

Chromium, Total, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Chromium, Total, MW-37 (mg/L)

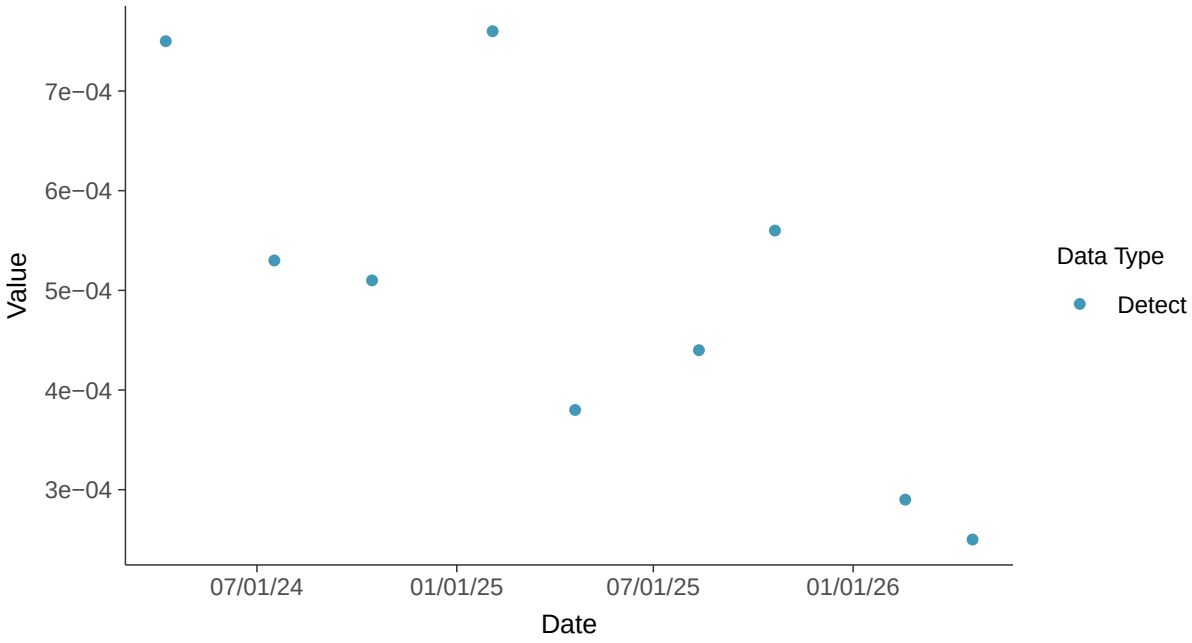


Appendix IV: Cobalt, MW-37

ID: 47_1_4_110

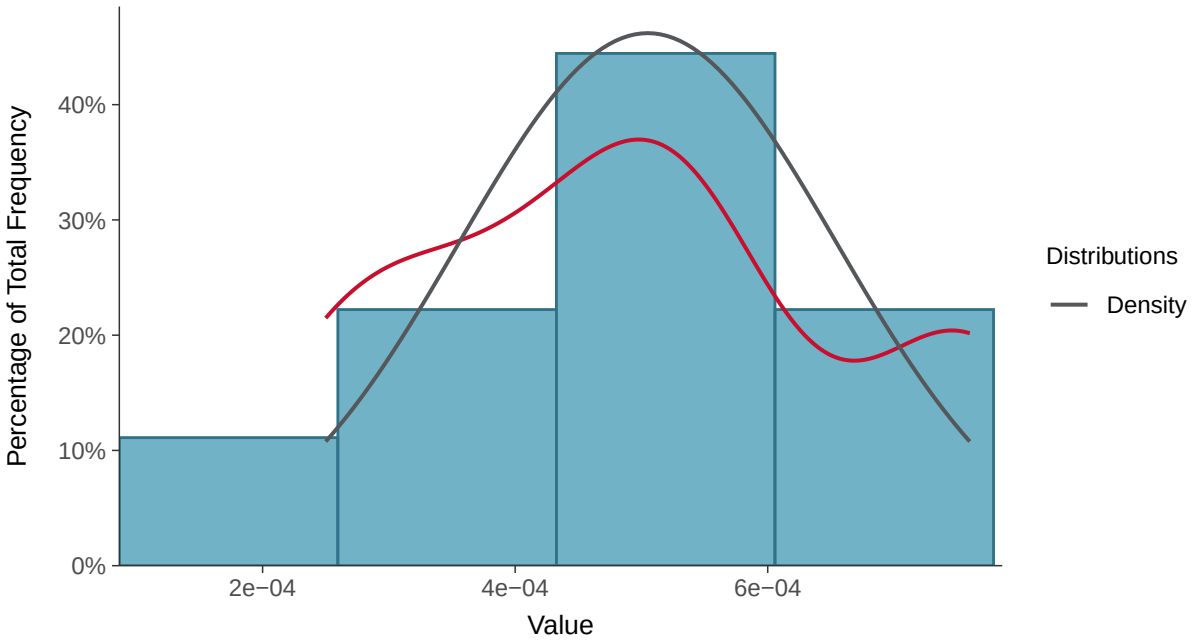
Scatter Plot

Cobalt, MW-37 (mg/L)



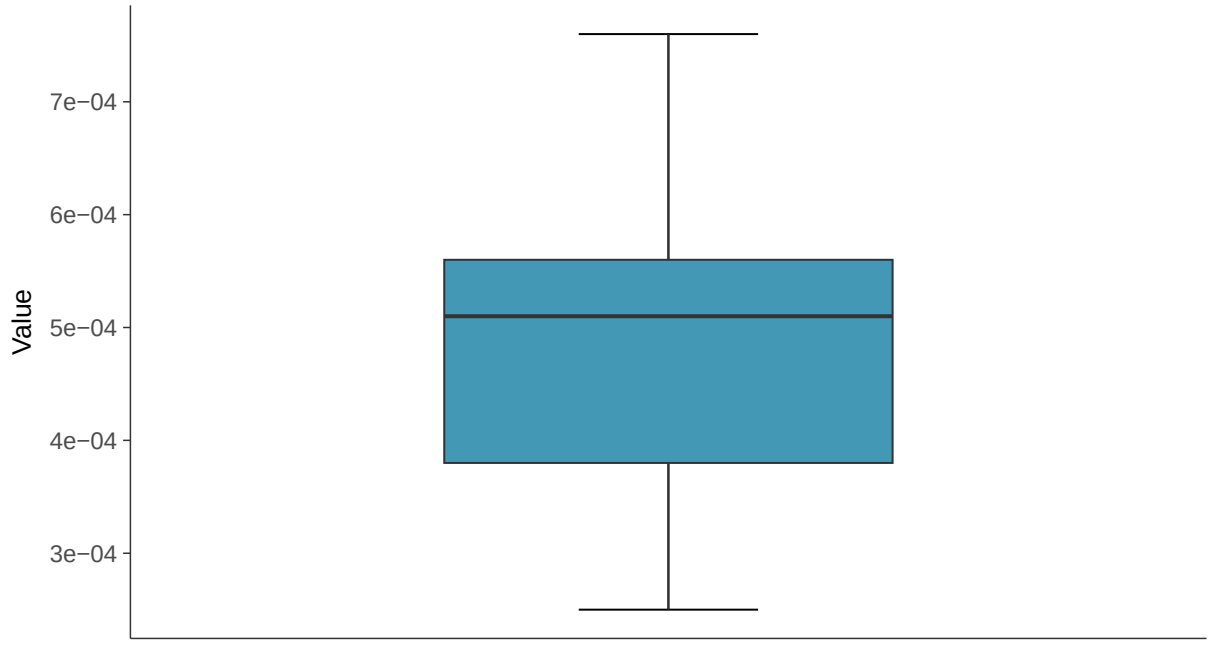
Histogram

Cobalt, MW-37 (mg/L)



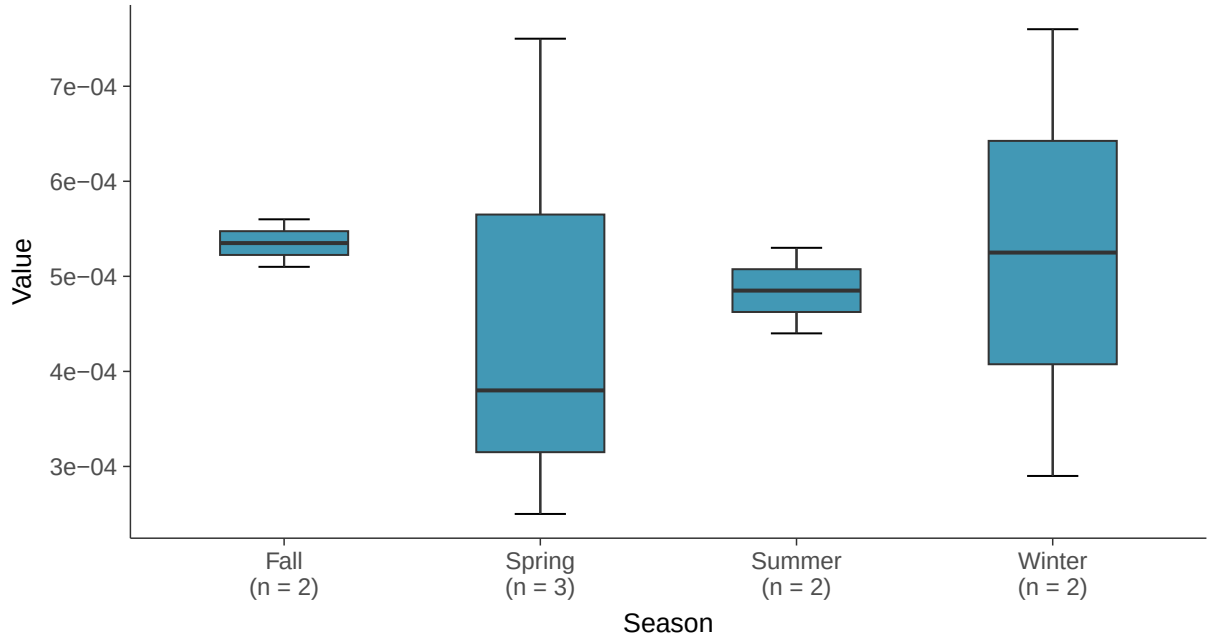
Boxplot

Cobalt, MW-37 (mg/L)



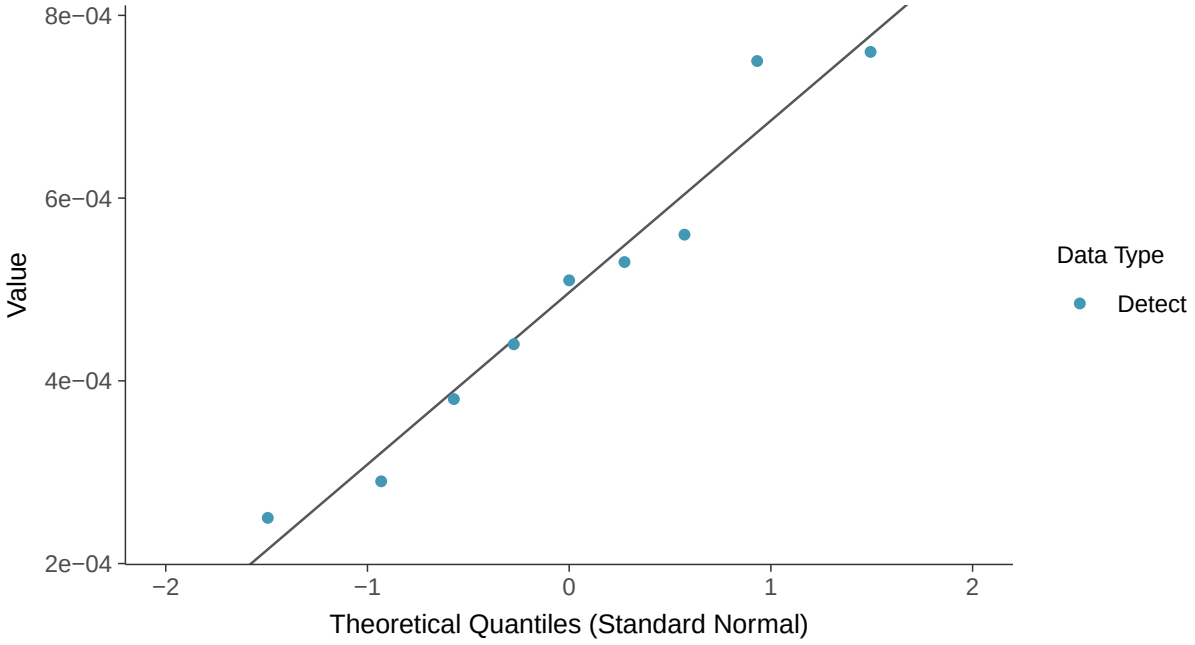
Boxplot by Season

Cobalt, MW-37 (mg/L)



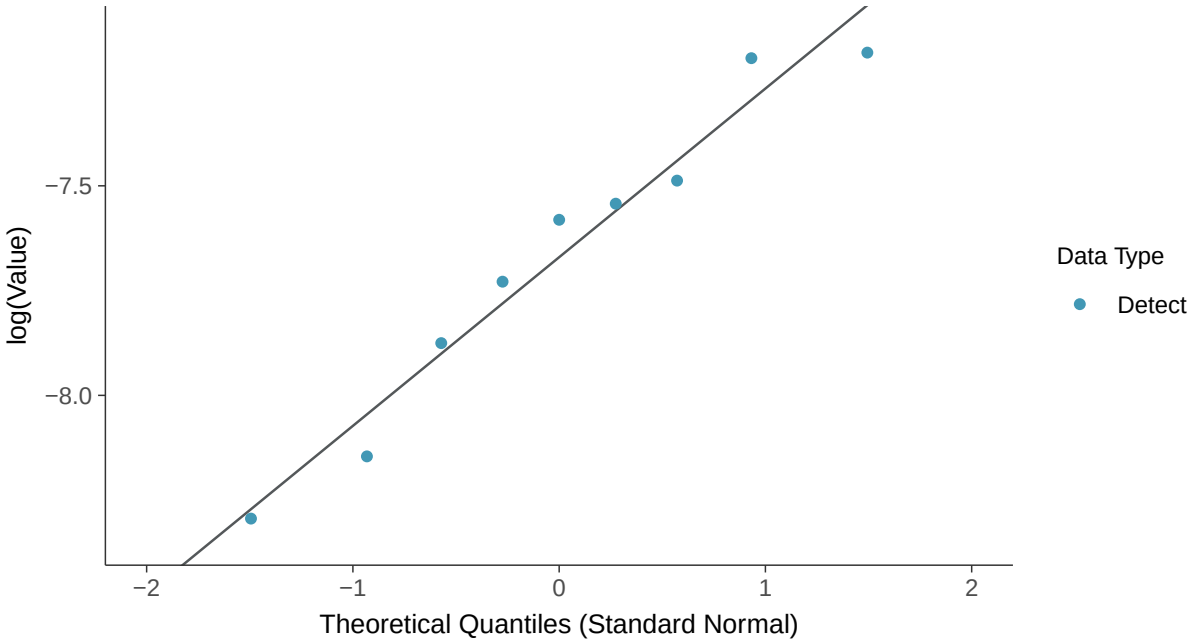
Normal Q-Q plot

Cobalt, MW-37 (mg/L)



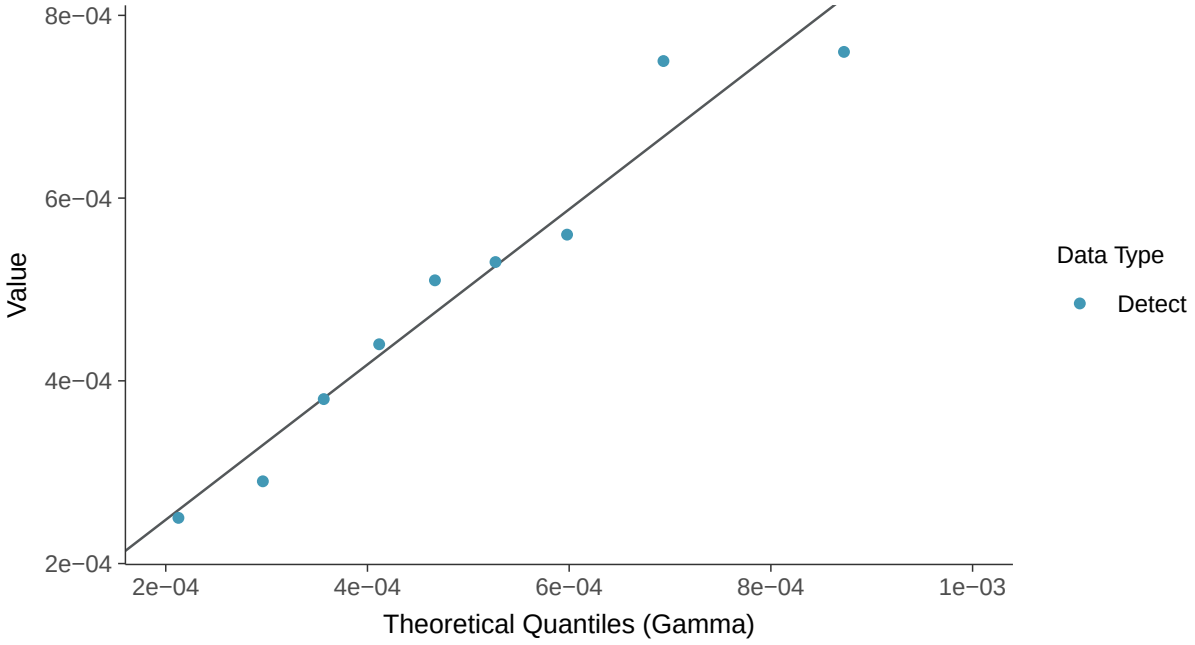
Lognormal Q-Q plot

Cobalt, MW-37 (mg/L)



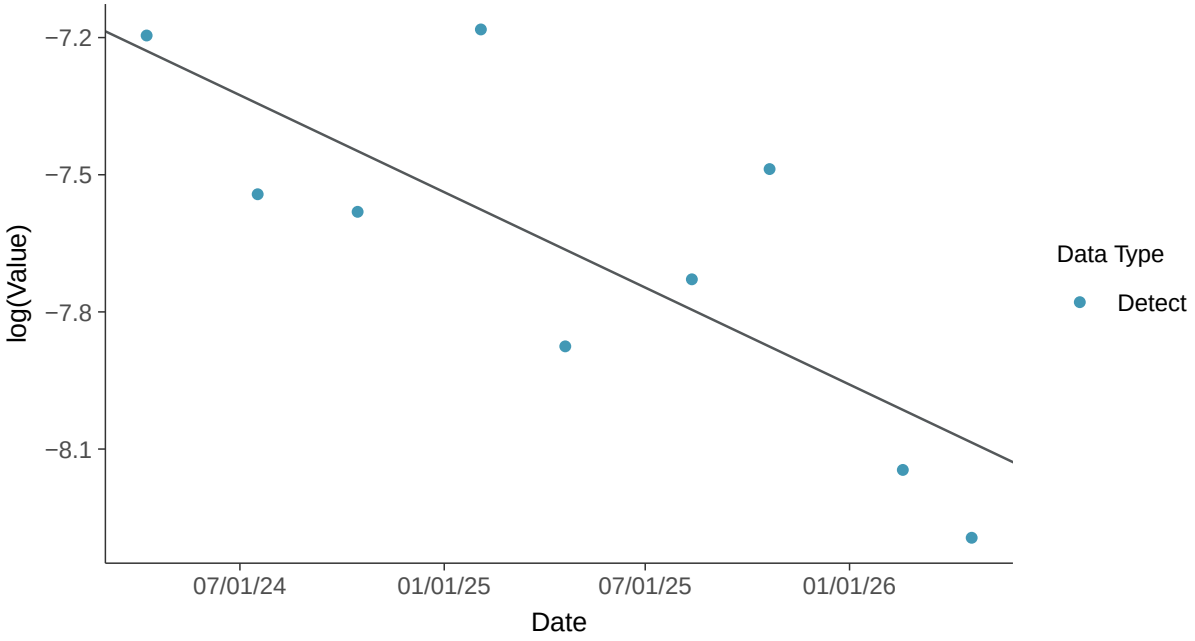
Gamma Q-Q plot

Cobalt, MW-37 (mg/L)



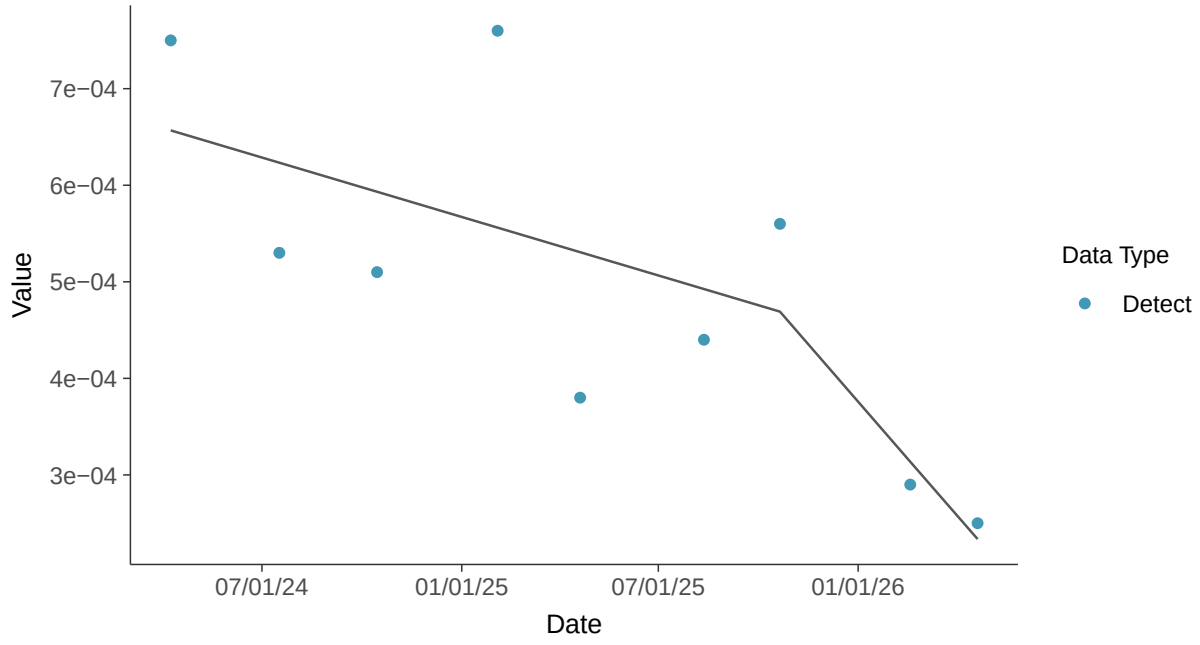
Trend Regression: Lognormal MLE

Cobalt, MW-37 (mg/L)



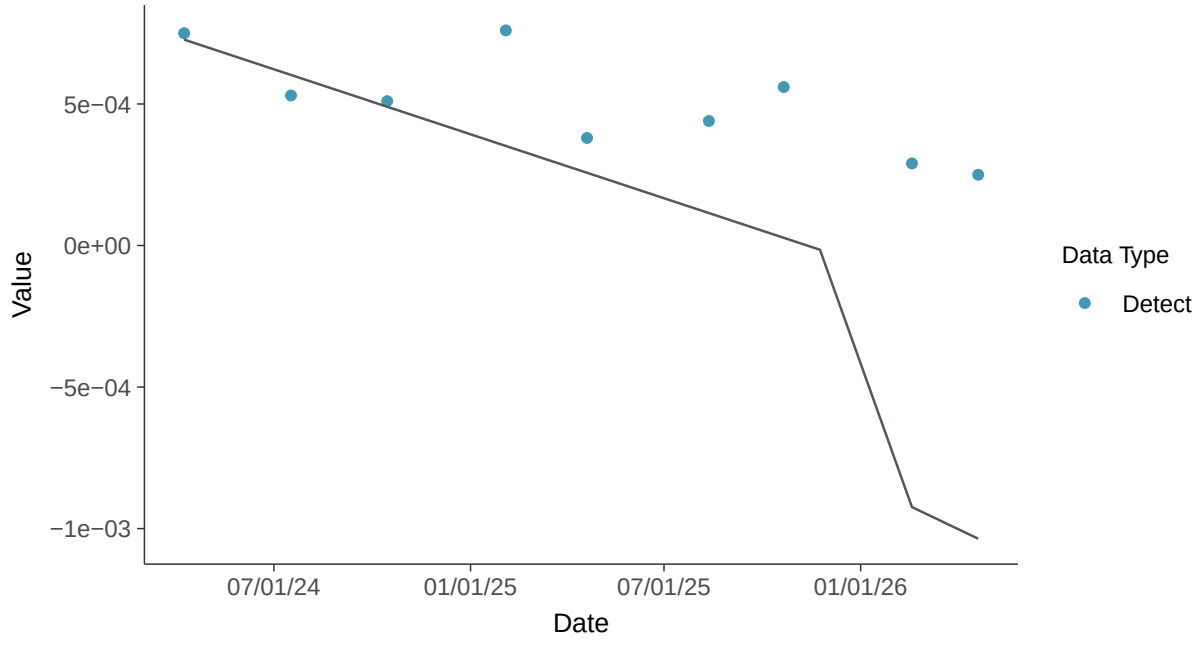
Trend Regression: Piecewise Linear-Linear

Cobalt, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-37 (mg/L)

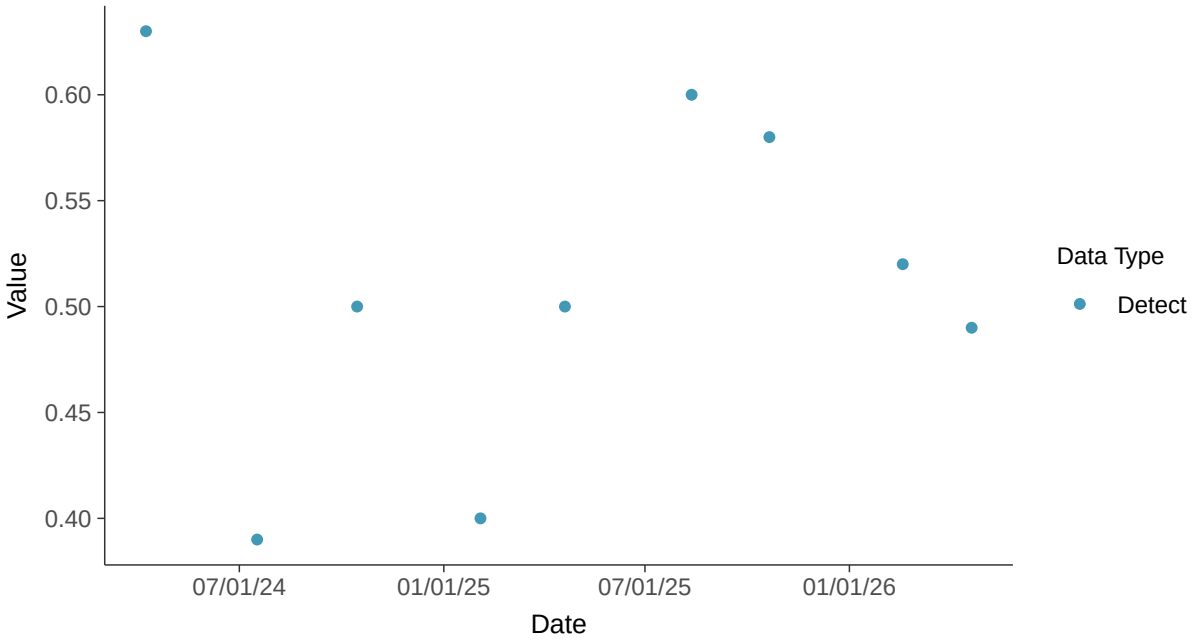


Appendix IV: Fluoride (App IV), MW-37

ID: 47_1_4_113

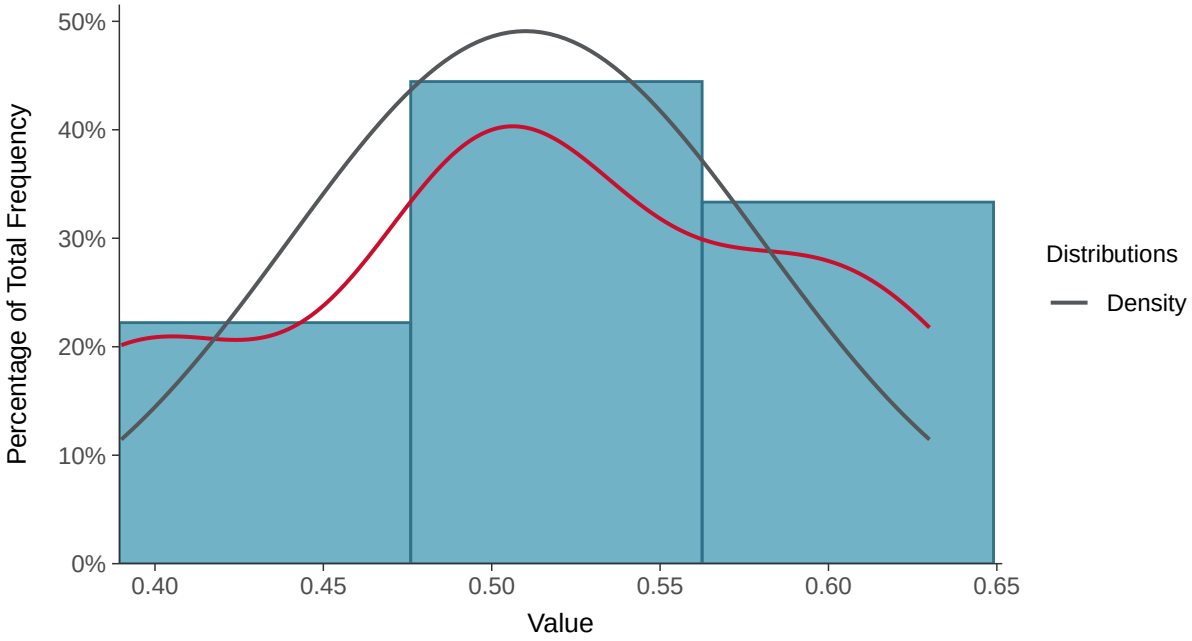
Scatter Plot

Fluoride (App IV), MW-37 (mg/L)



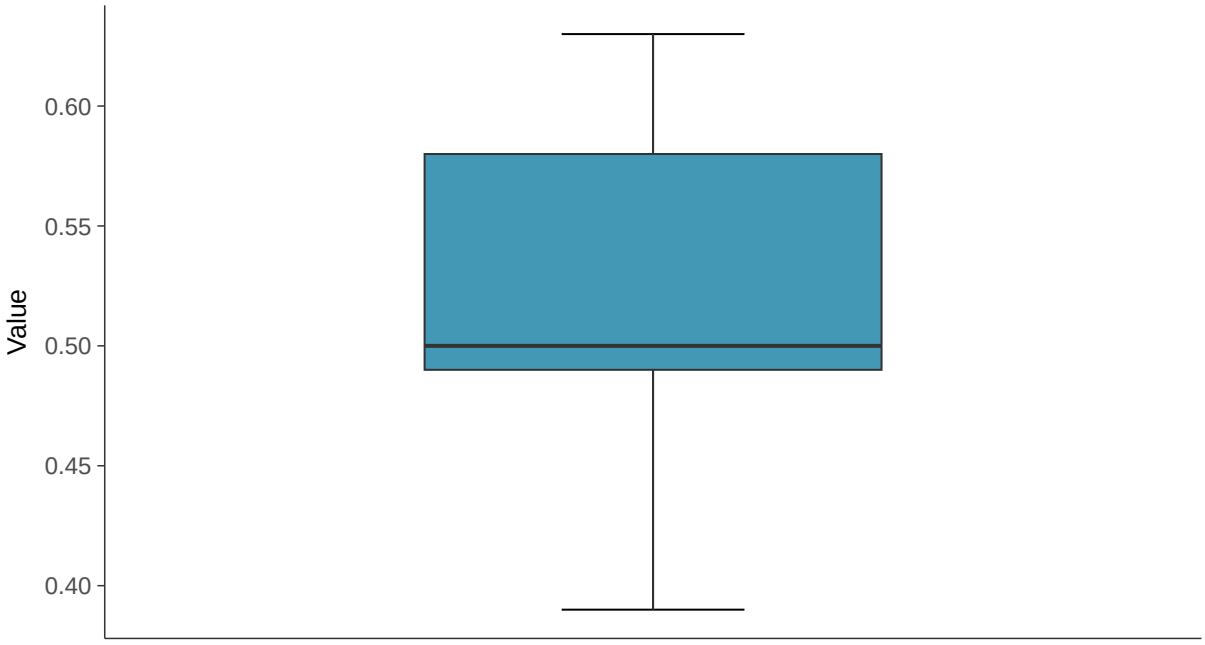
Histogram

Fluoride (App IV), MW-37 (mg/L)



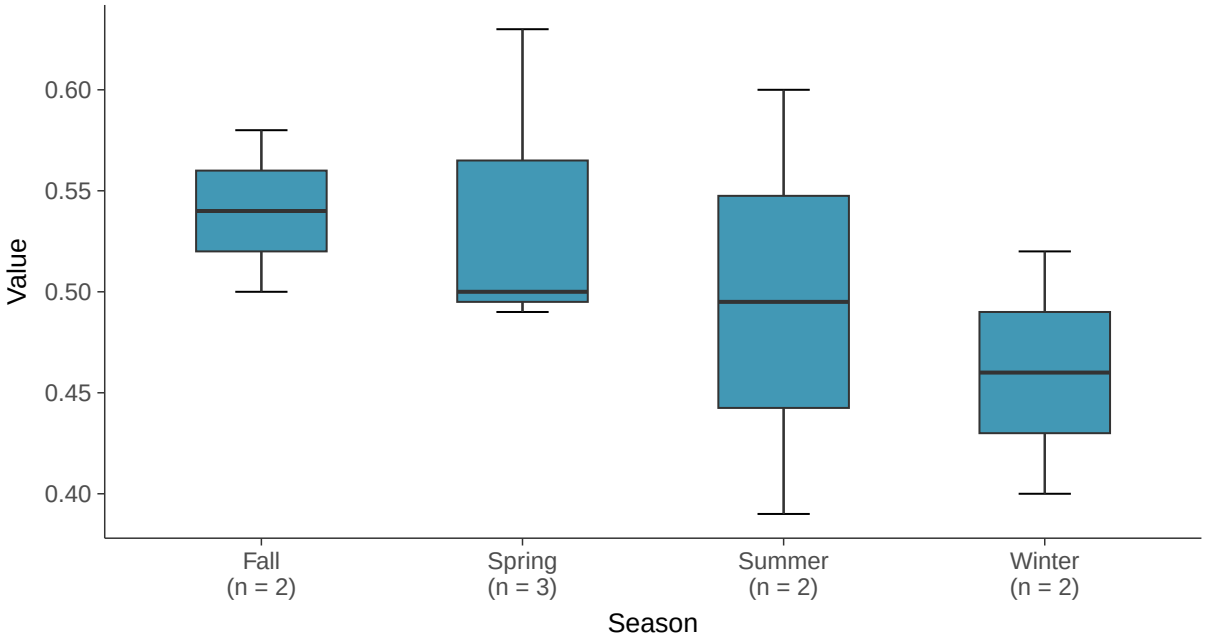
Boxplot

Fluoride (App IV), MW-37 (mg/L)



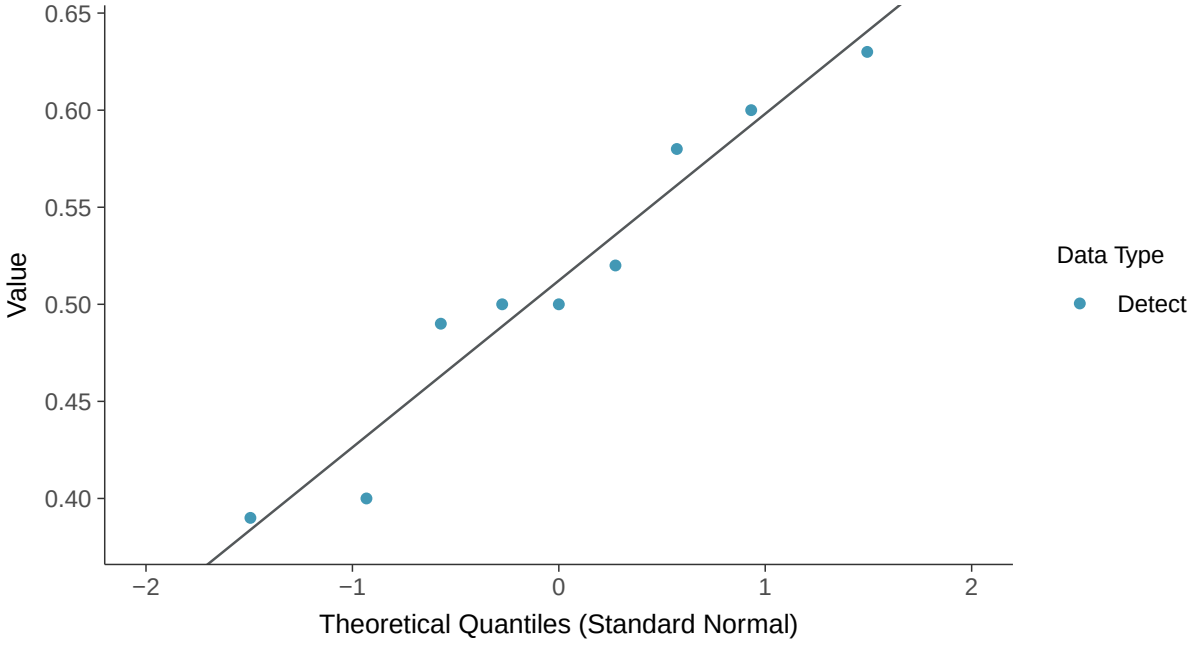
Boxplot by Season

Fluoride (App IV), MW-37 (mg/L)



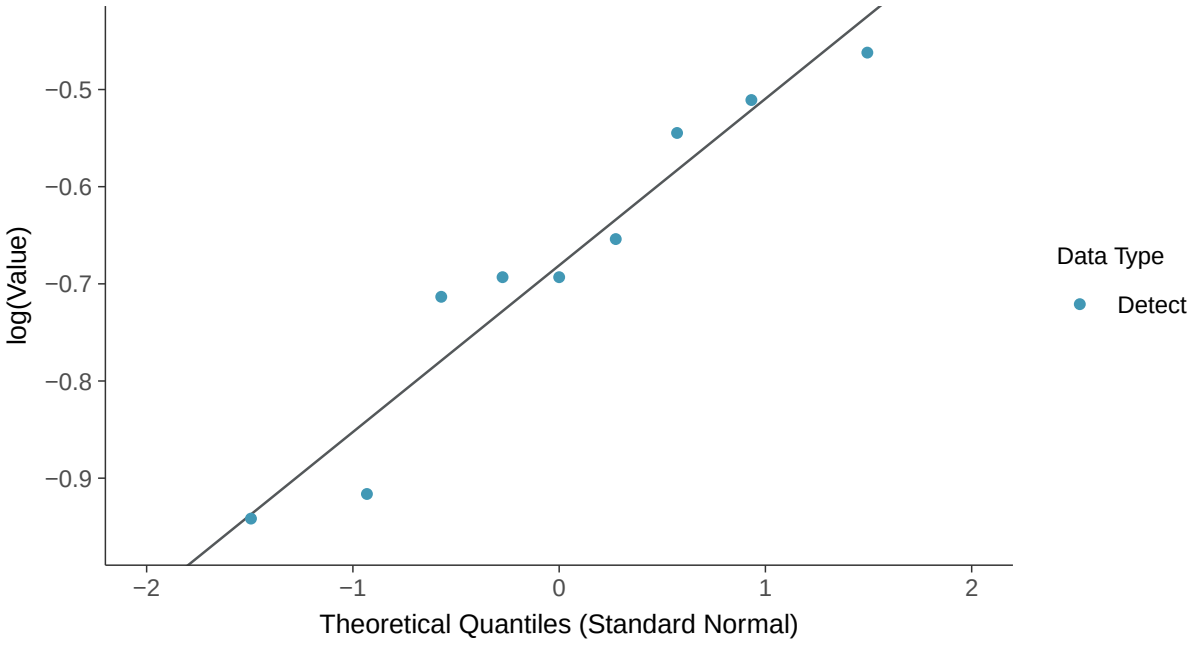
Normal Q-Q plot

Fluoride (App IV), MW-37 (mg/L)



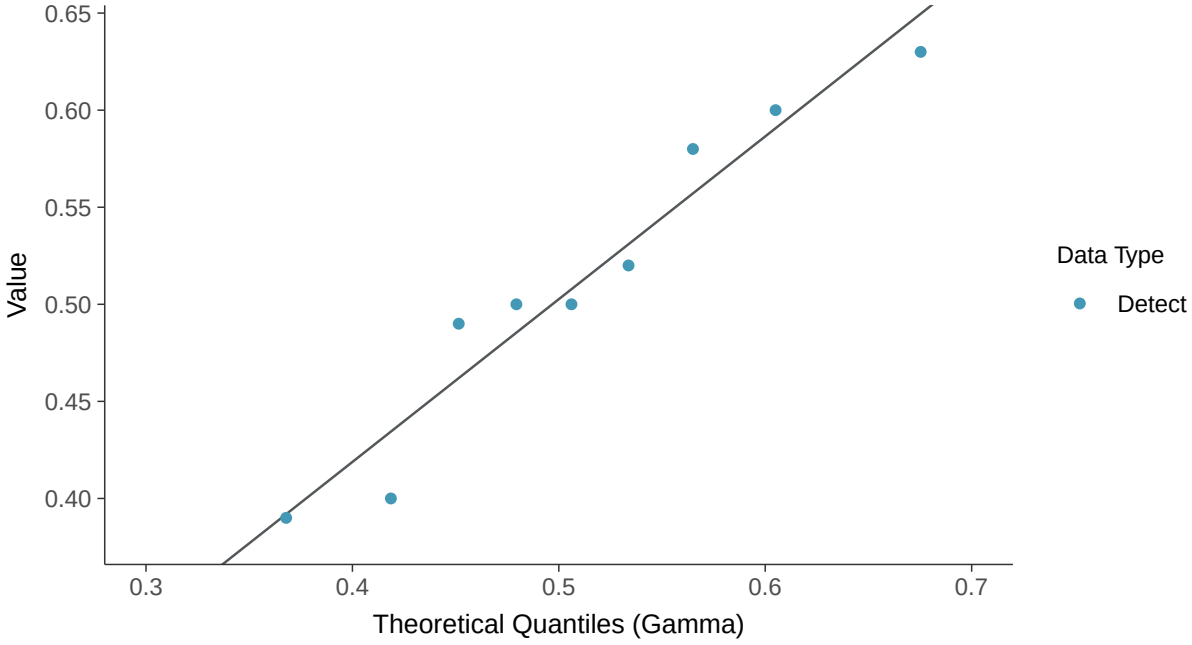
Lognormal Q-Q plot

Fluoride (App IV), MW-37 (mg/L)



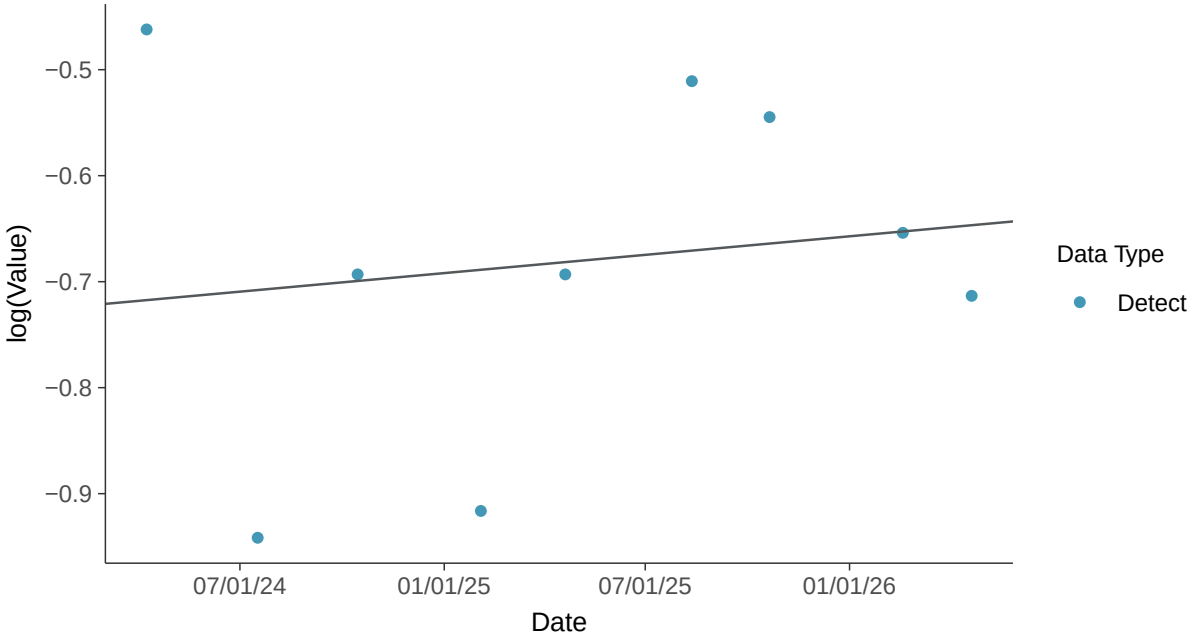
Gamma Q-Q plot

Fluoride (App IV), MW-37 (mg/L)



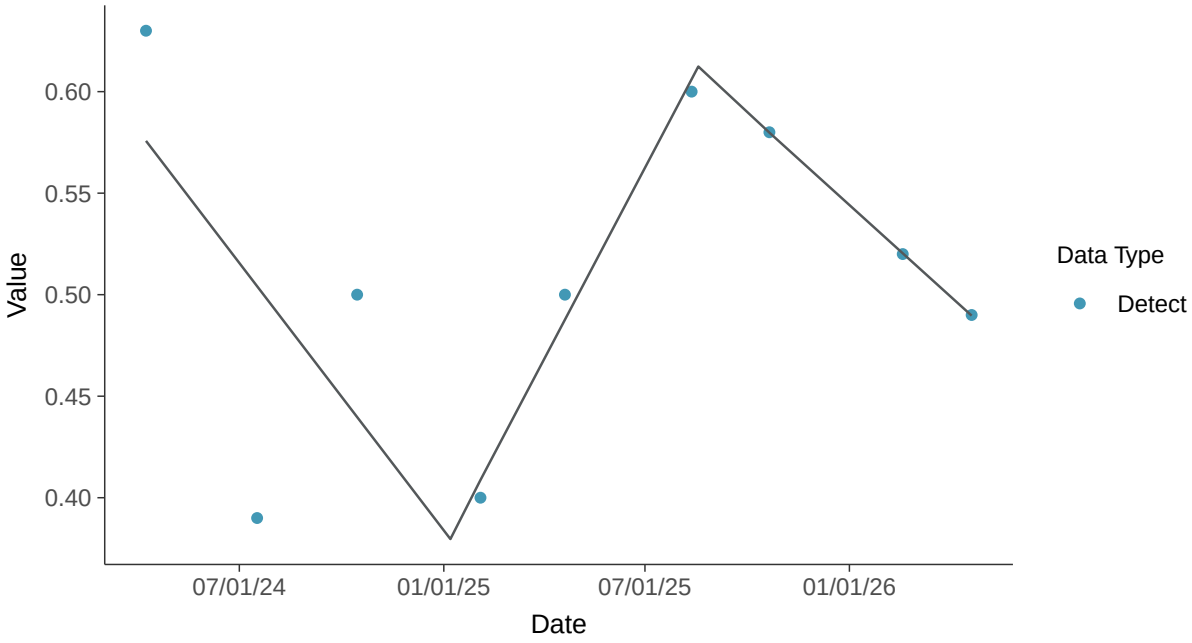
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Fluoride (App IV), MW-37 (mg/L)

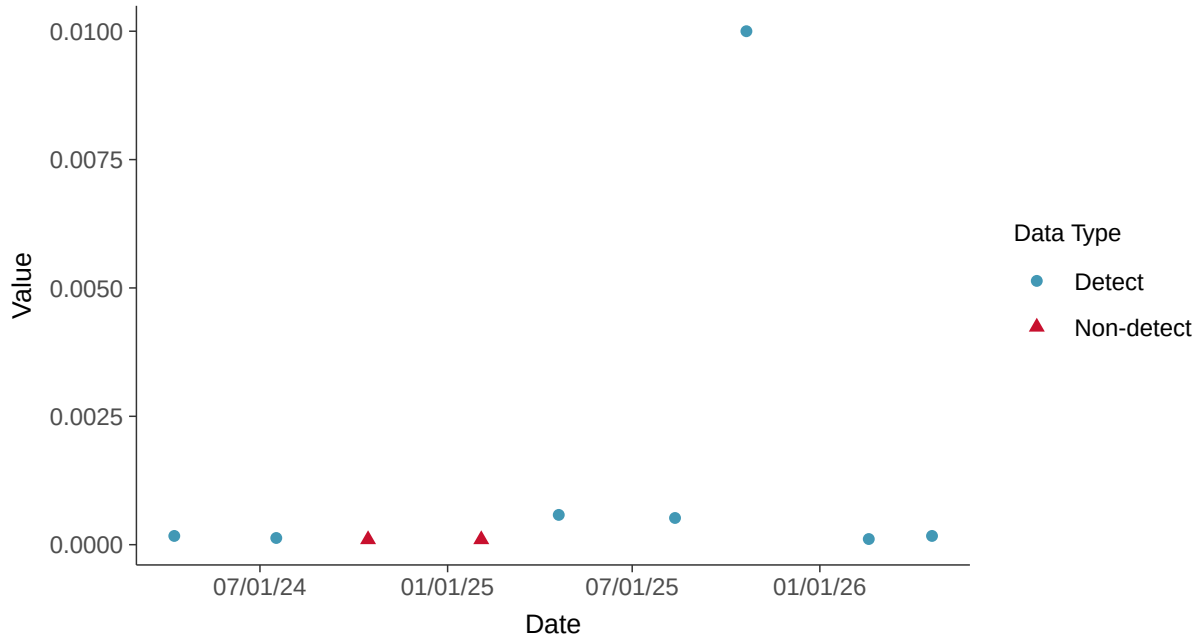


Appendix IV: Lead, MW-37

ID: 47_1_4_115

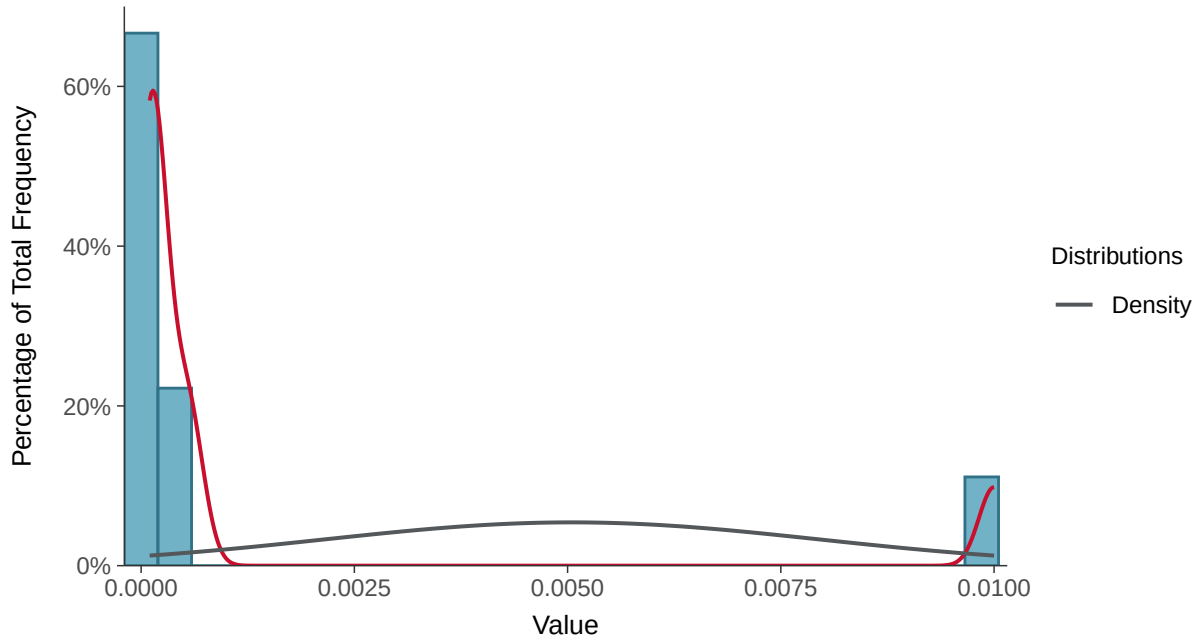
Scatter Plot

Lead, MW-37 (mg/L)



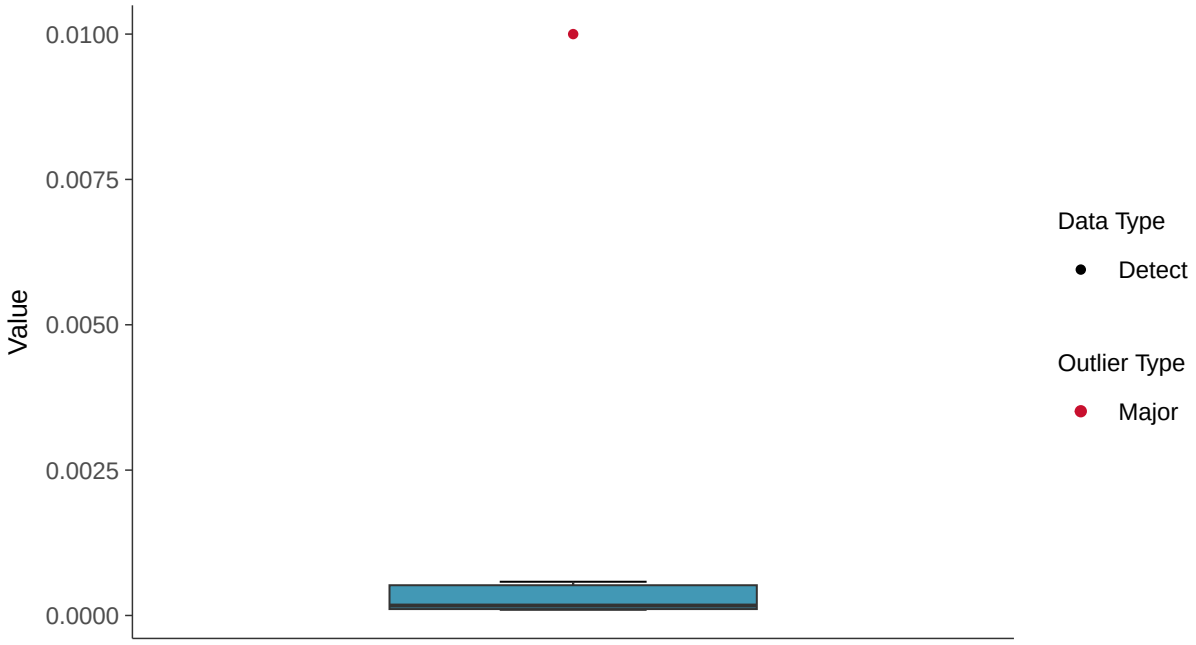
Histogram

Lead, MW-37 (mg/L)



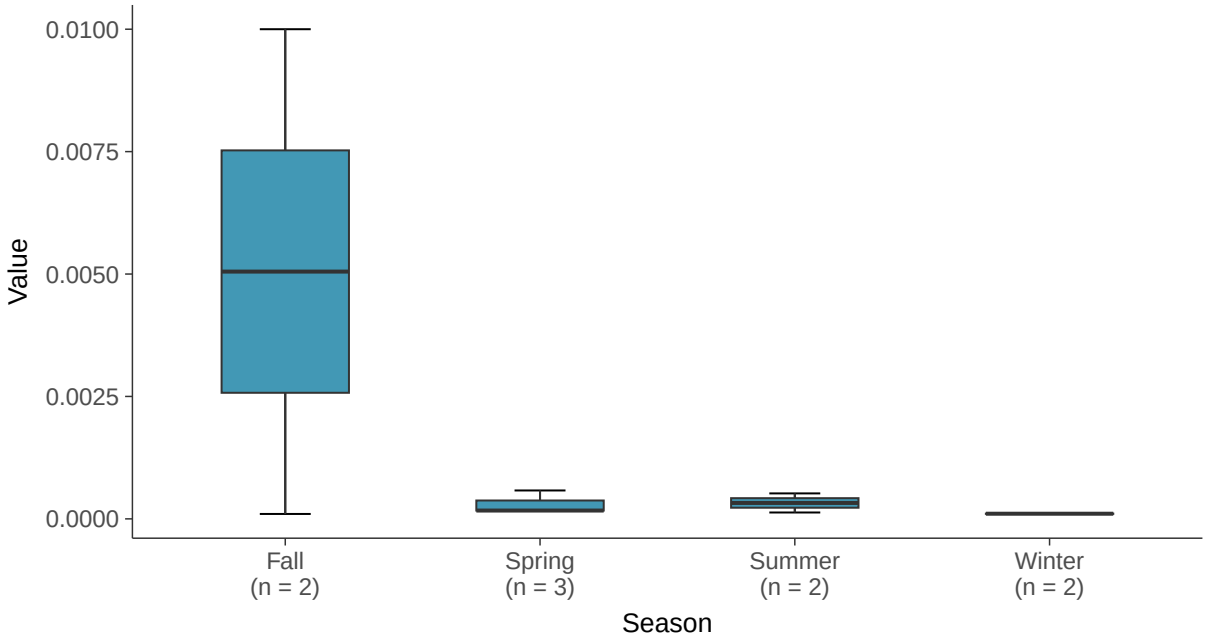
Boxplot

Lead, MW-37 (mg/L)



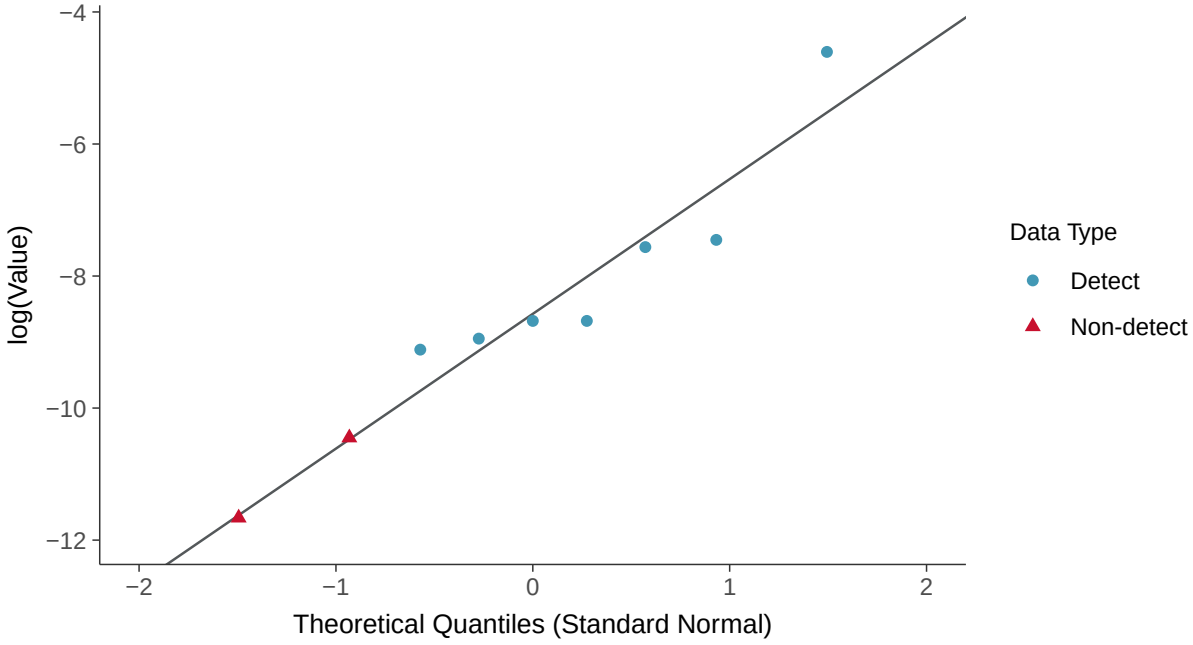
Boxplot by Season

Lead, MW-37 (mg/L)



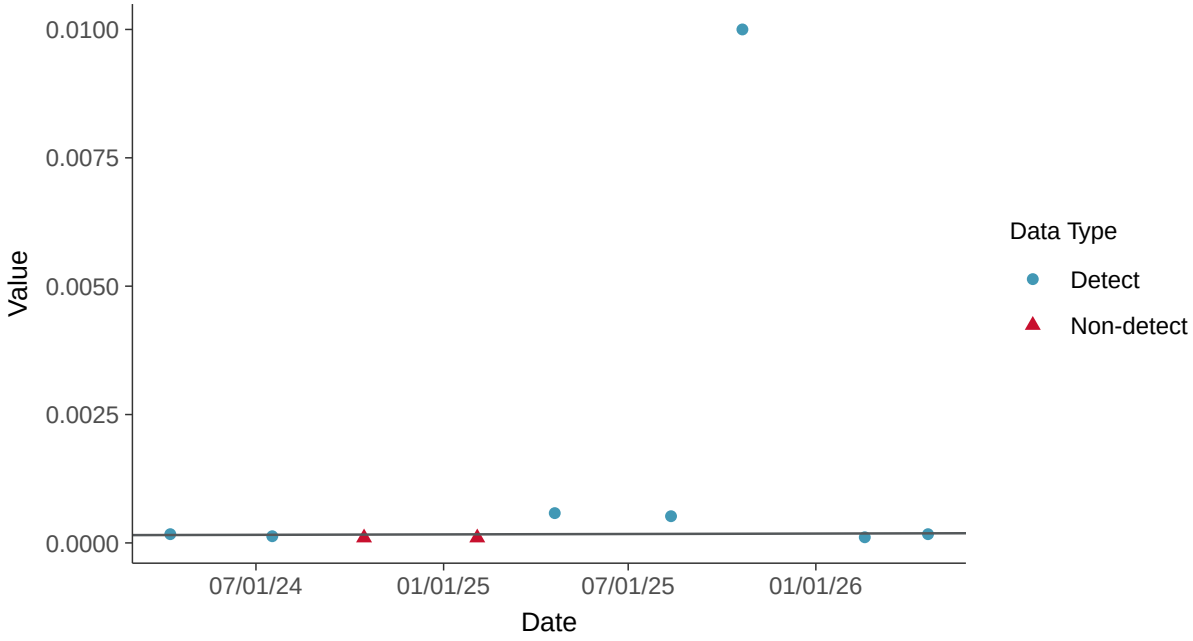
Lognormal Q-Q plot using ROS Imputed Estimates

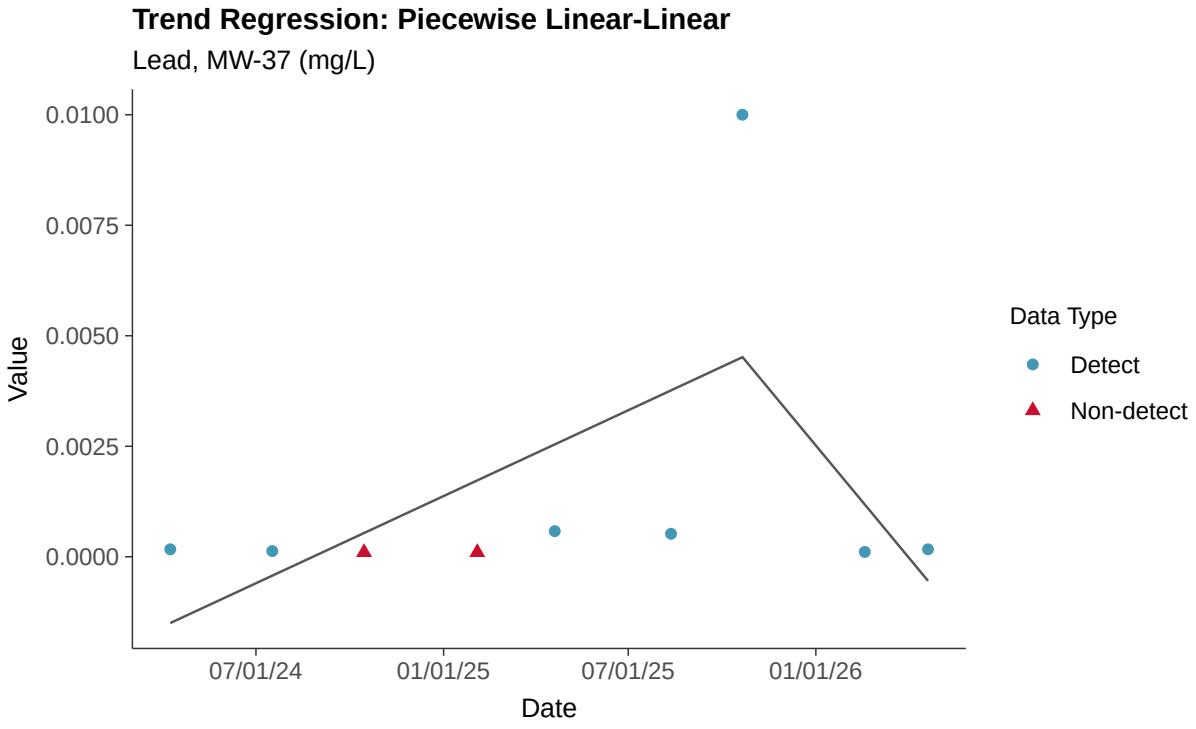
Lead, MW-37 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Lead, MW-37 (mg/L)



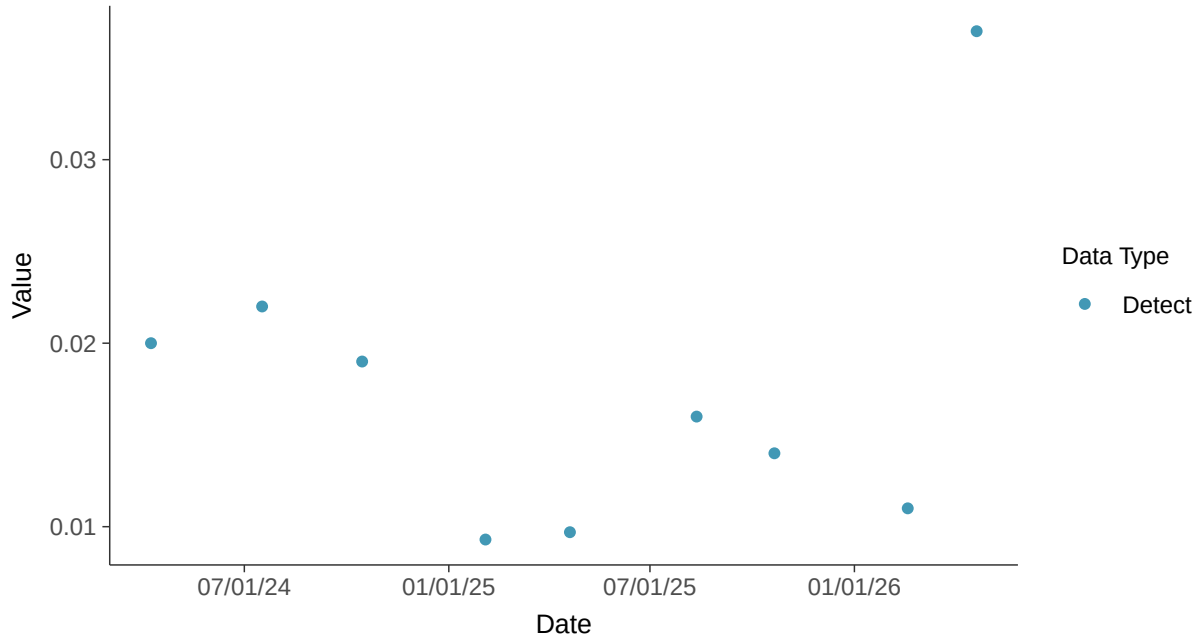

Trend Regression: Piecewise Linear-Linear
Lead, MW-37 (mg/L)
0.0100
0.0075
0.0050
0.0025
0.0000
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Lithium, MW-37

ID: 47_1_4_116

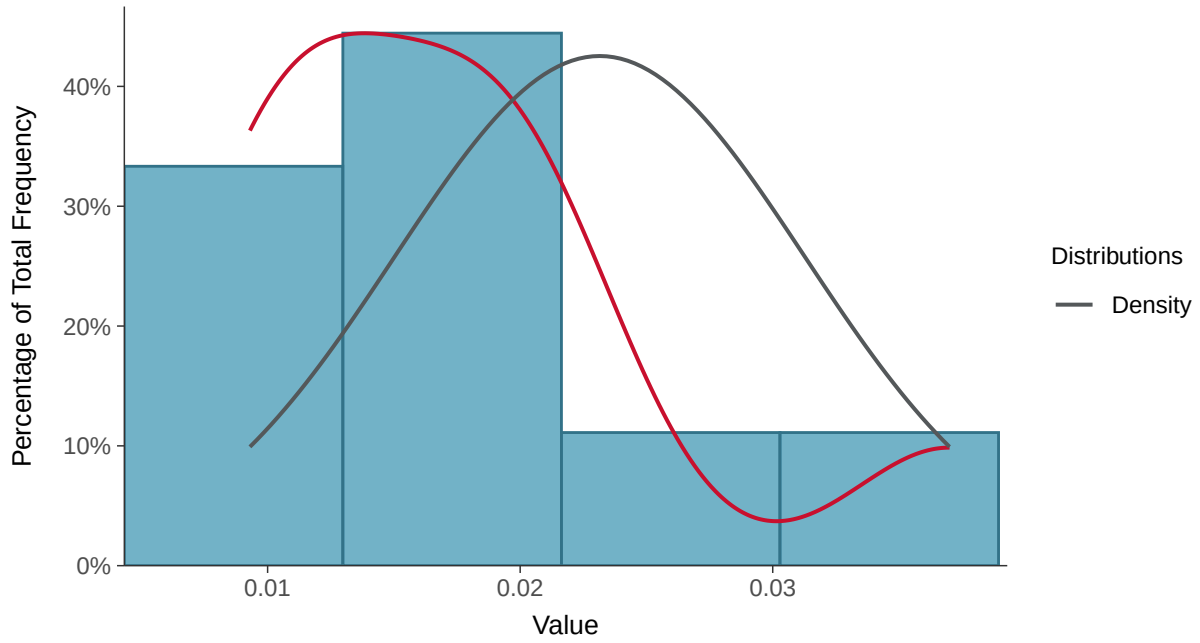
Scatter Plot

Lithium, MW-37 (mg/L)



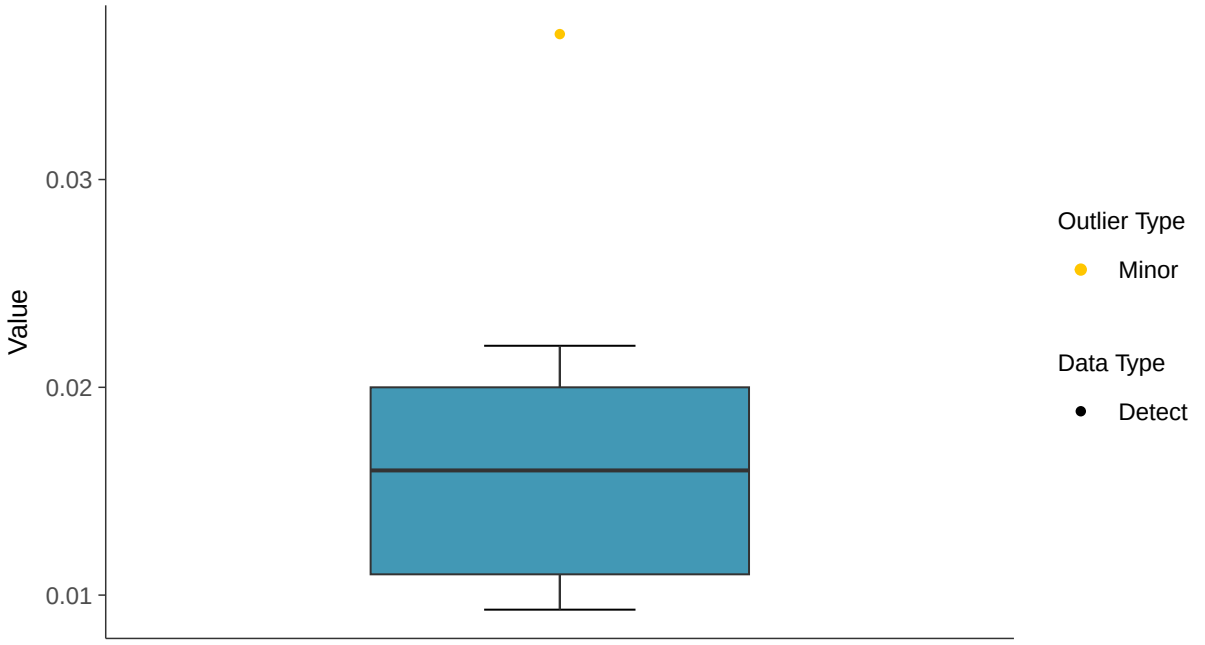
Histogram

Lithium, MW-37 (mg/L)



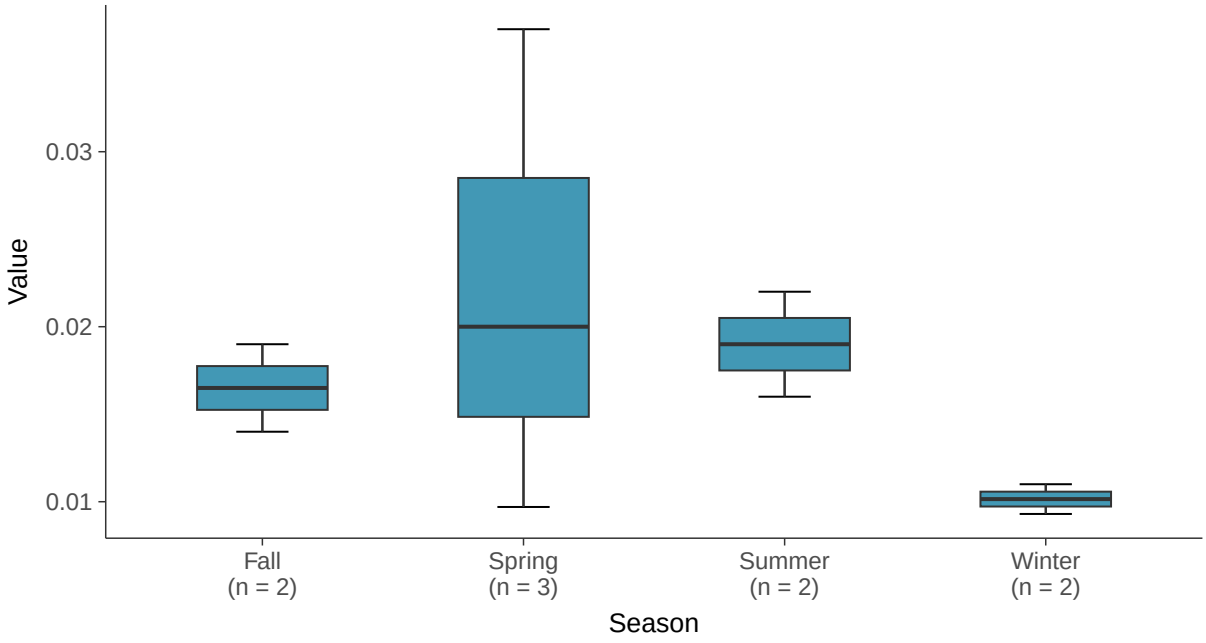
Boxplot

Lithium, MW-37 (mg/L)



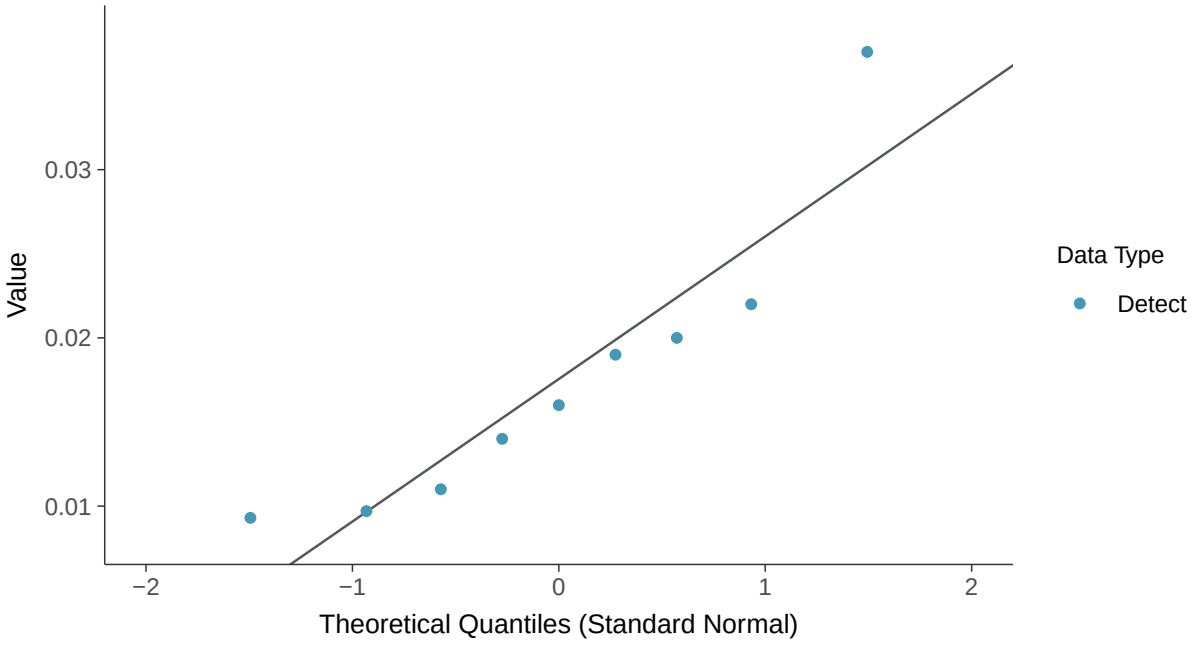
Boxplot by Season

Lithium, MW-37 (mg/L)



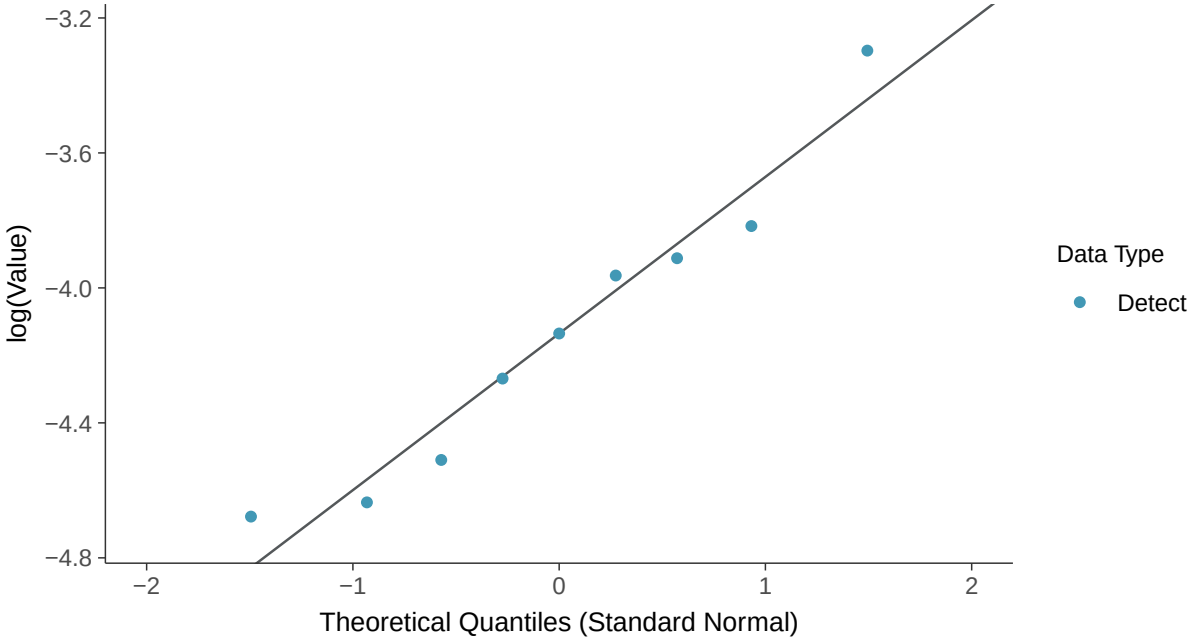
Normal Q-Q plot

Lithium, MW-37 (mg/L)



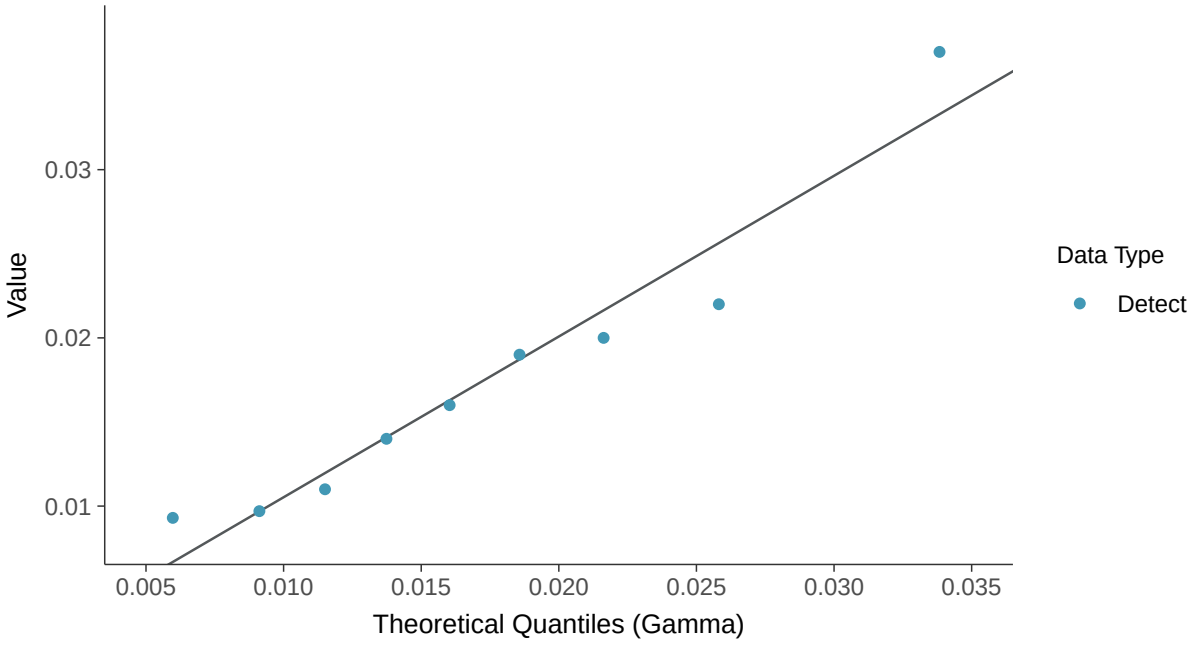
Lognormal Q-Q plot

Lithium, MW-37 (mg/L)



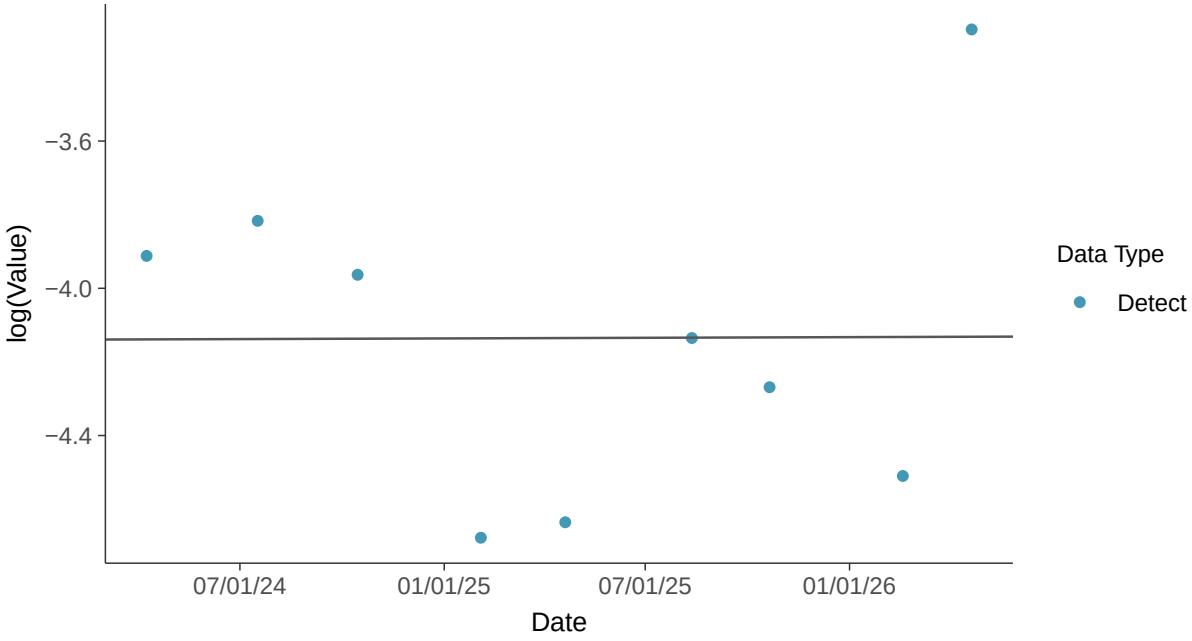
Gamma Q-Q plot

Lithium, MW-37 (mg/L)



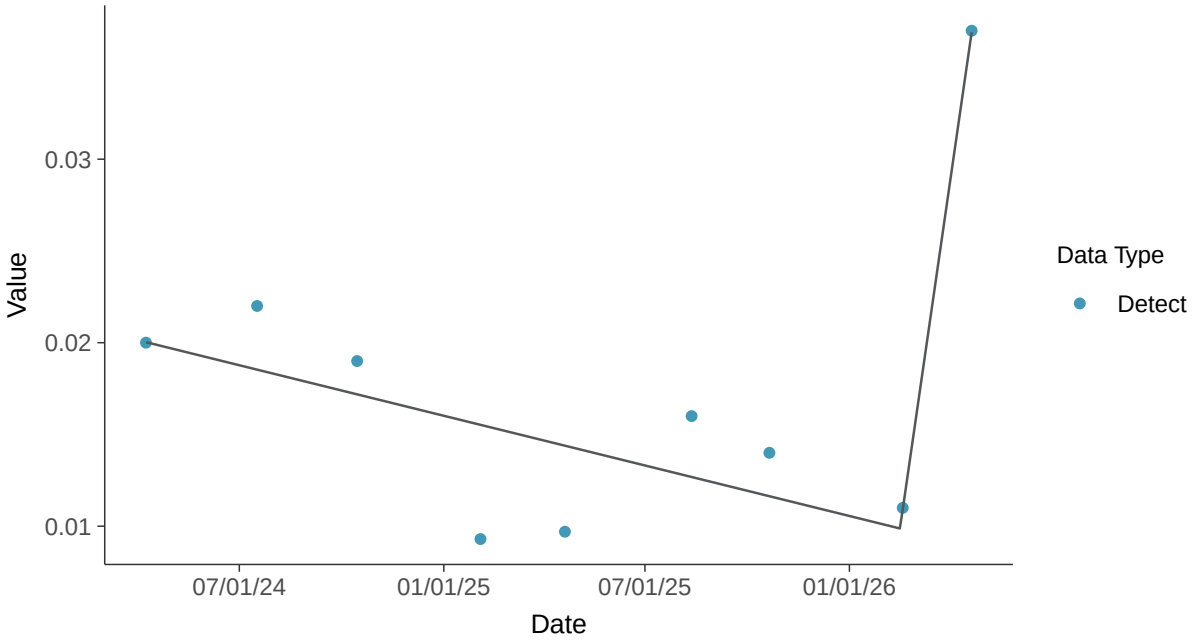
Trend Regression: Lognormal MLE

Lithium, MW-37 (mg/L)



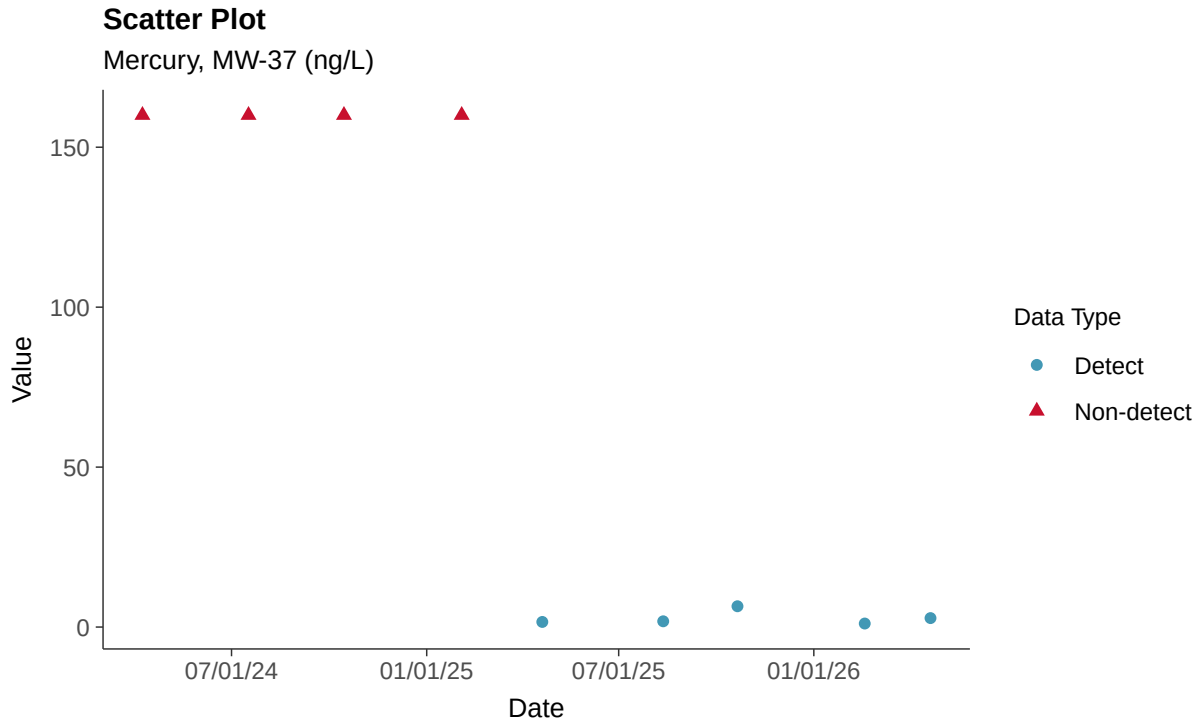
Trend Regression: Piecewise Linear-Linear

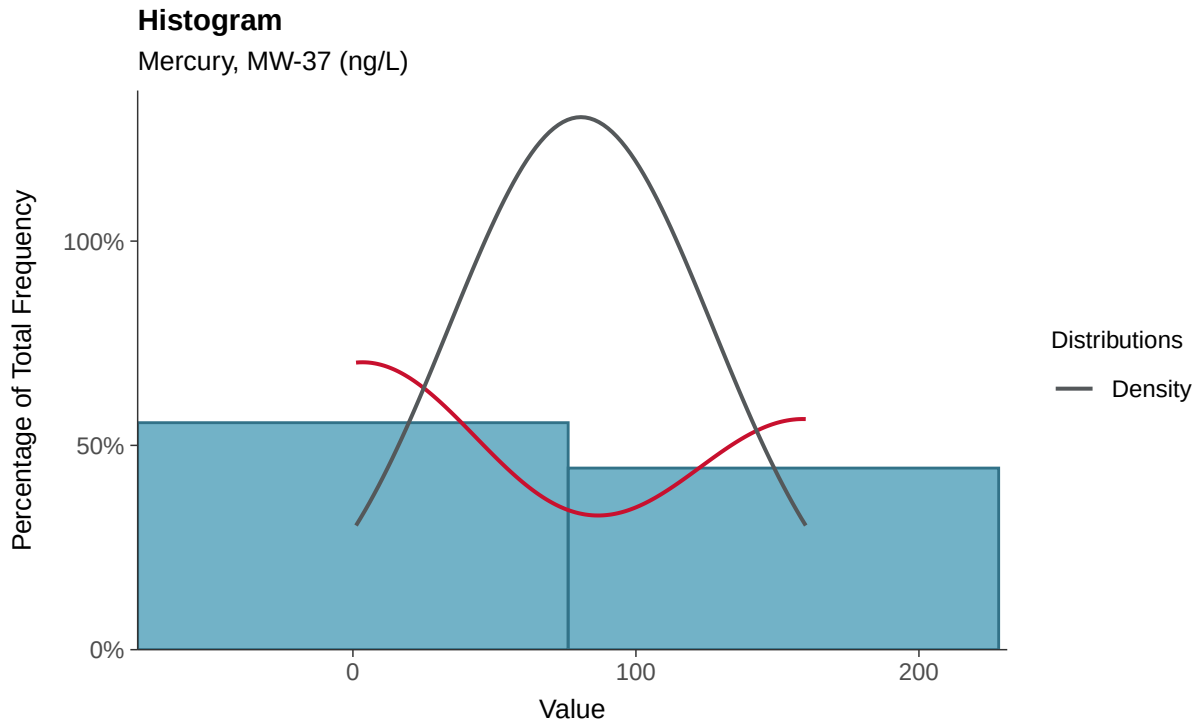
Lithium, MW-37 (mg/L)



Appendix IV: Mercury, MW-37

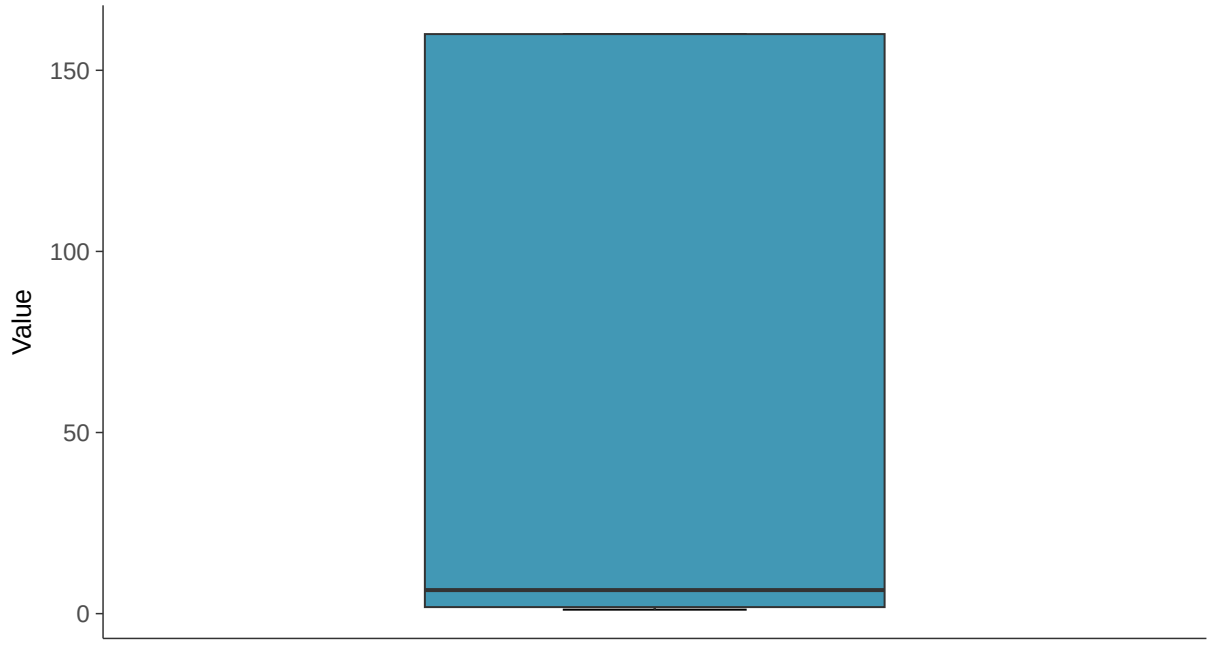
ID: 47_1_4_117





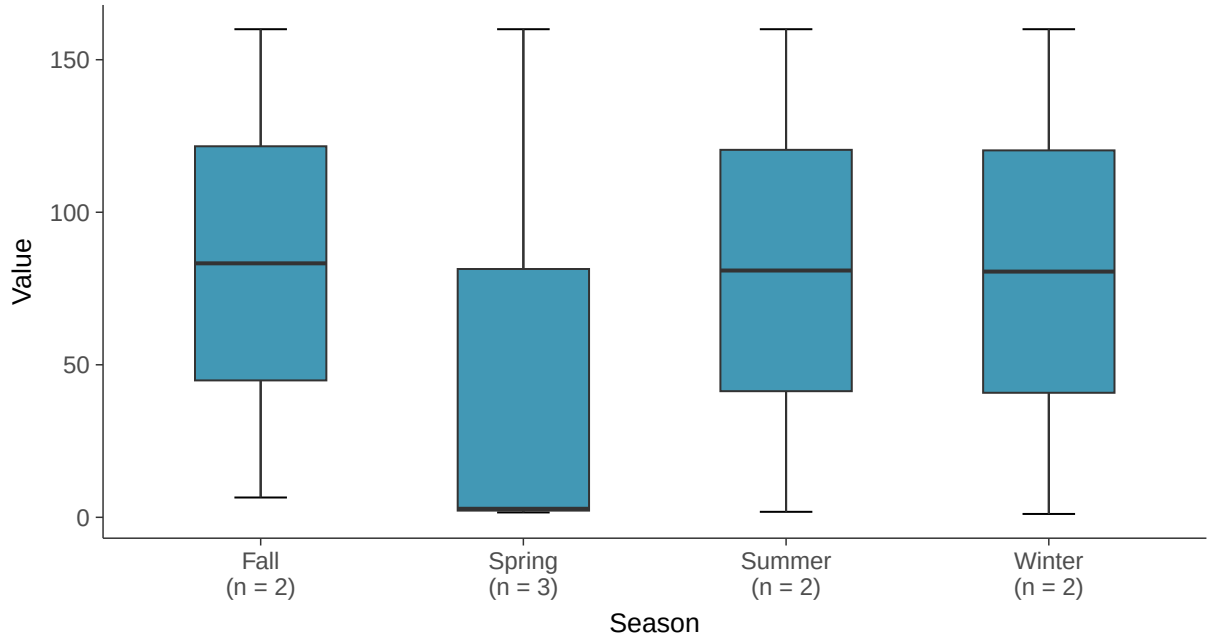
Boxplot

Mercury, MW-37 (ng/L)



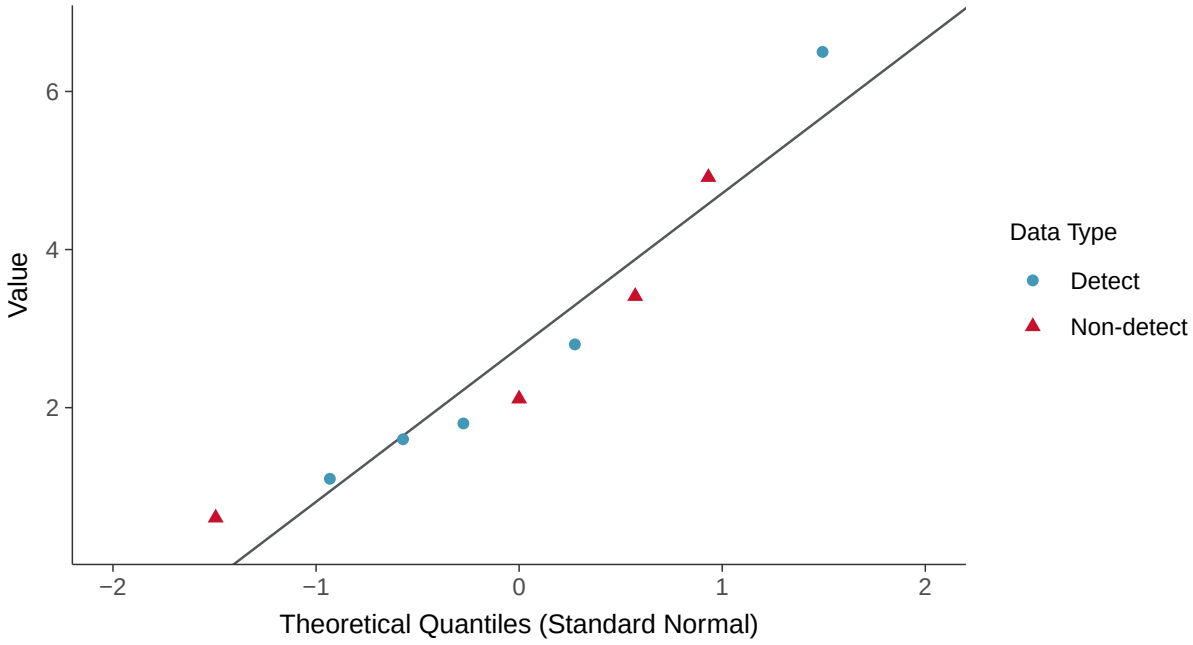
Boxplot by Season

Mercury, MW-37 (ng/L)



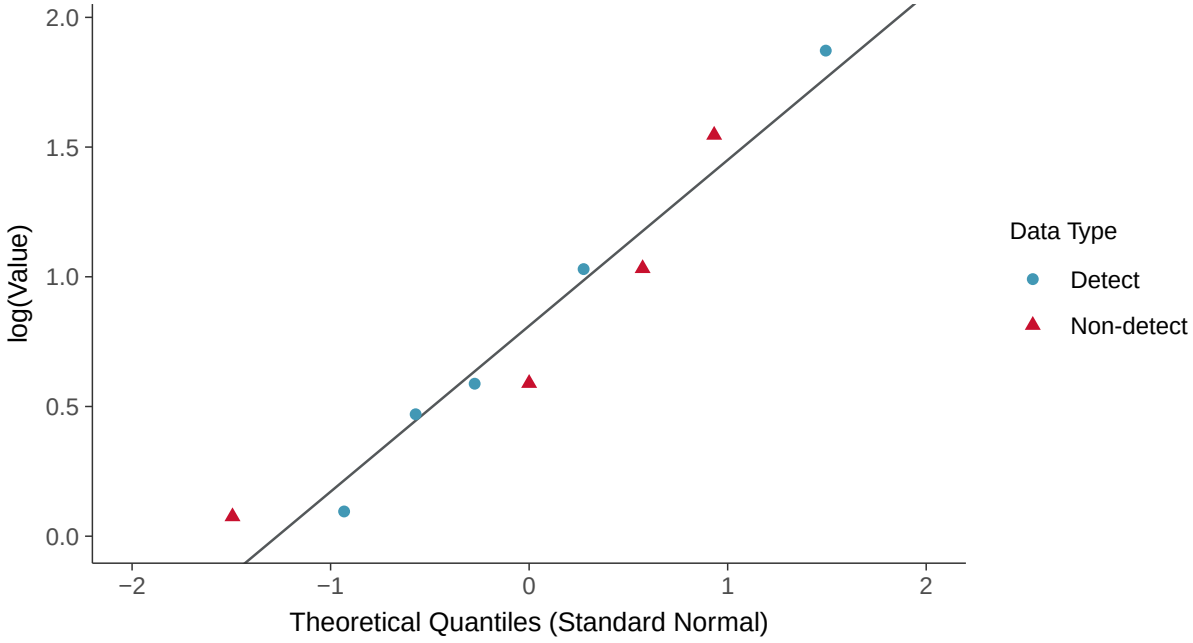
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-37 (ng/L)



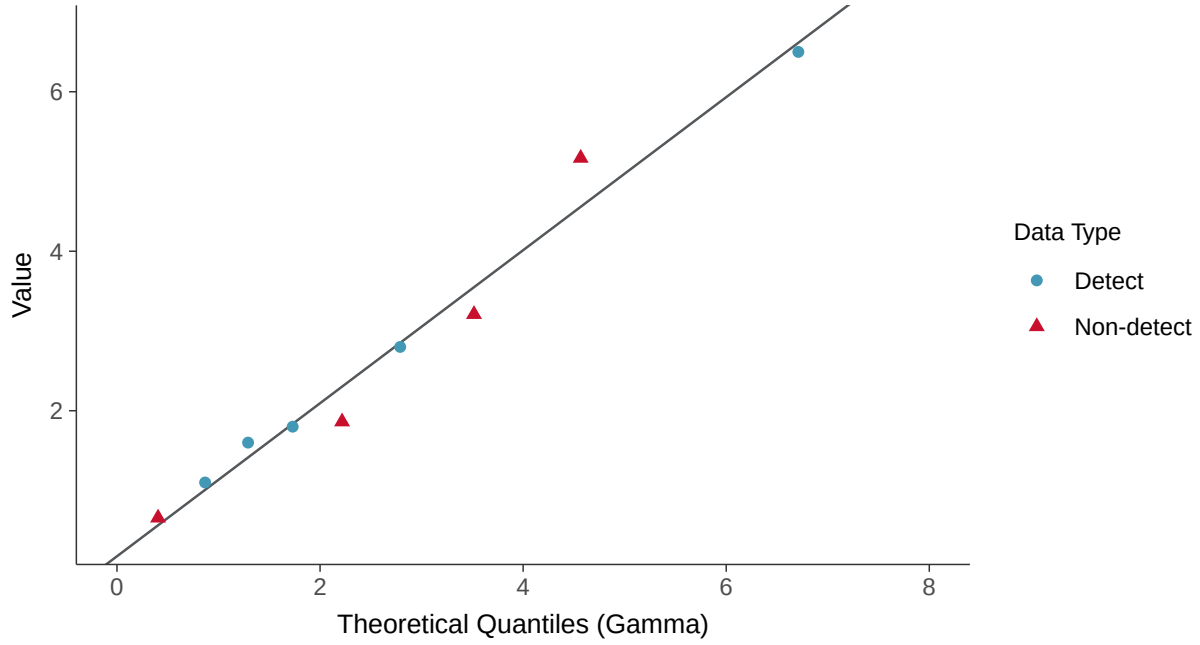
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-37 (ng/L)



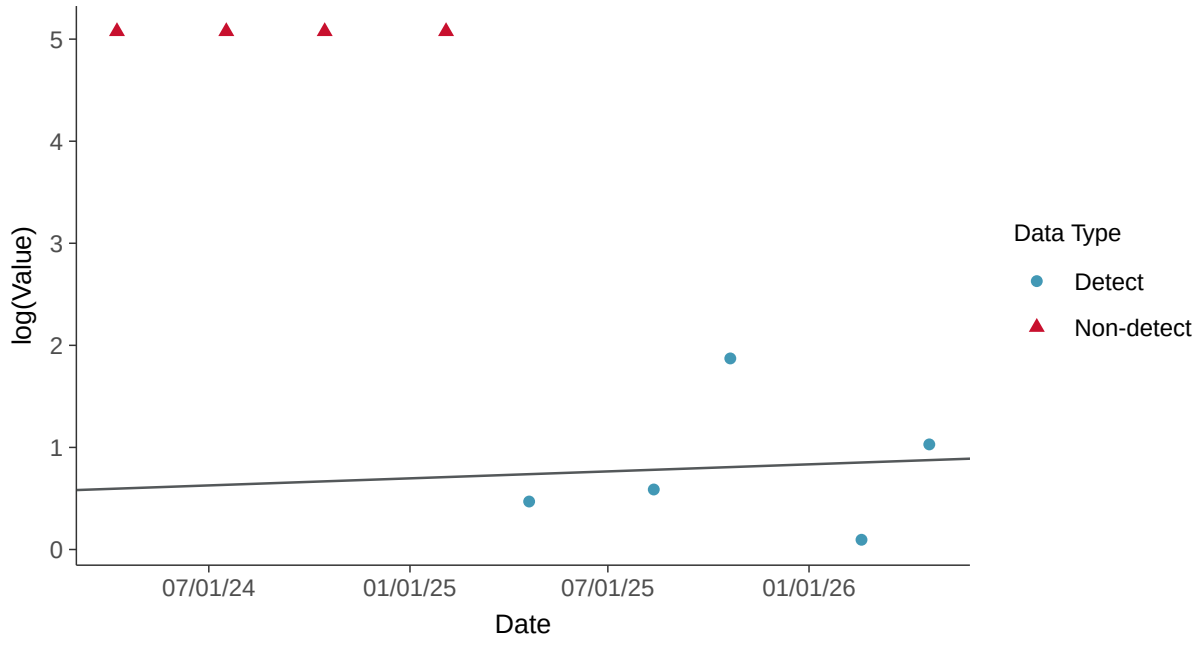
Gamma Q-Q plot using ROS Imputed Estimates

Mercury, MW-37 (ng/L)



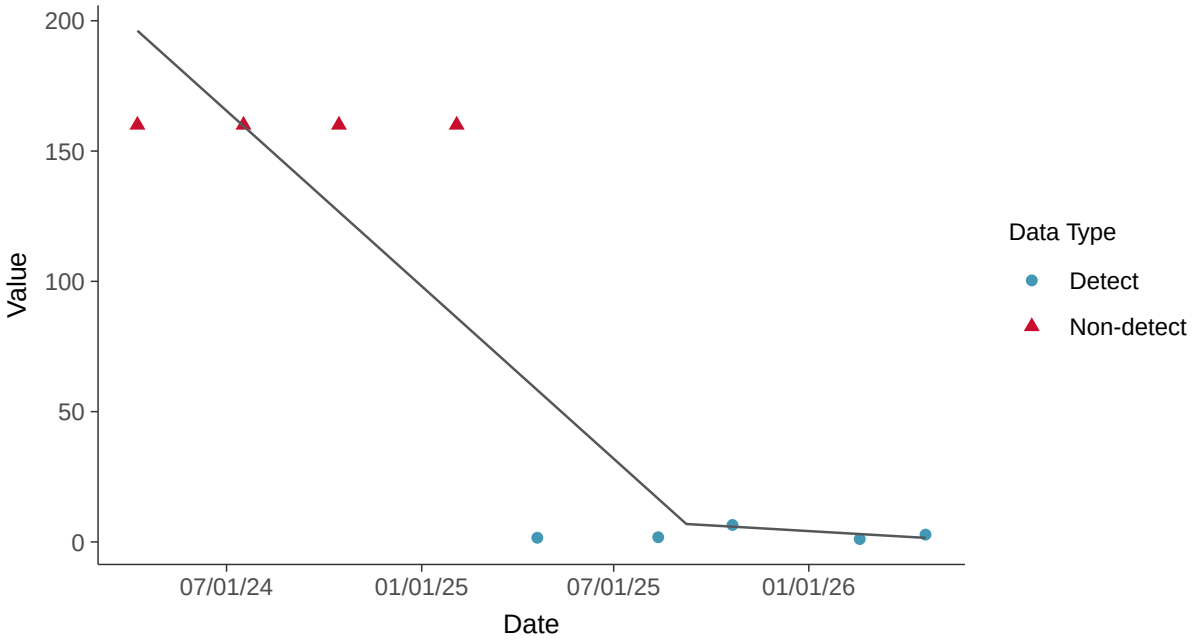
Trend Regression: Lognormal MLE

Mercury, MW-37 (ng/L)



Trend Regression: Piecewise Linear-Linear

Mercury, MW-37 (ng/L)

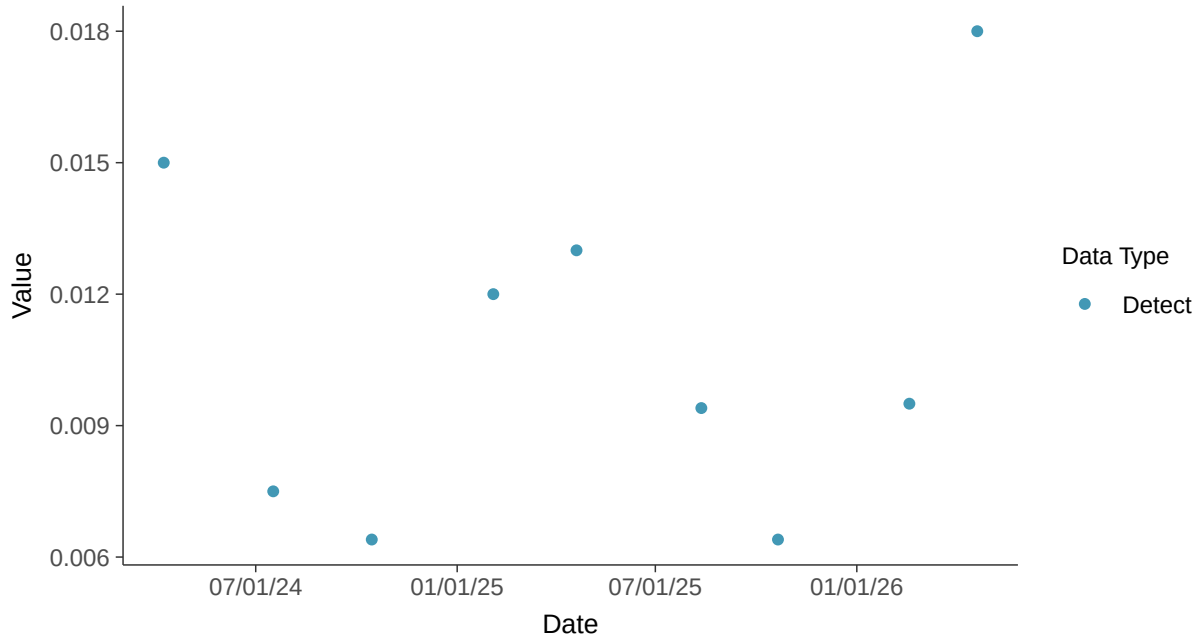


Appendix IV: Molybdenum, MW-37

ID: 47_1_4_118

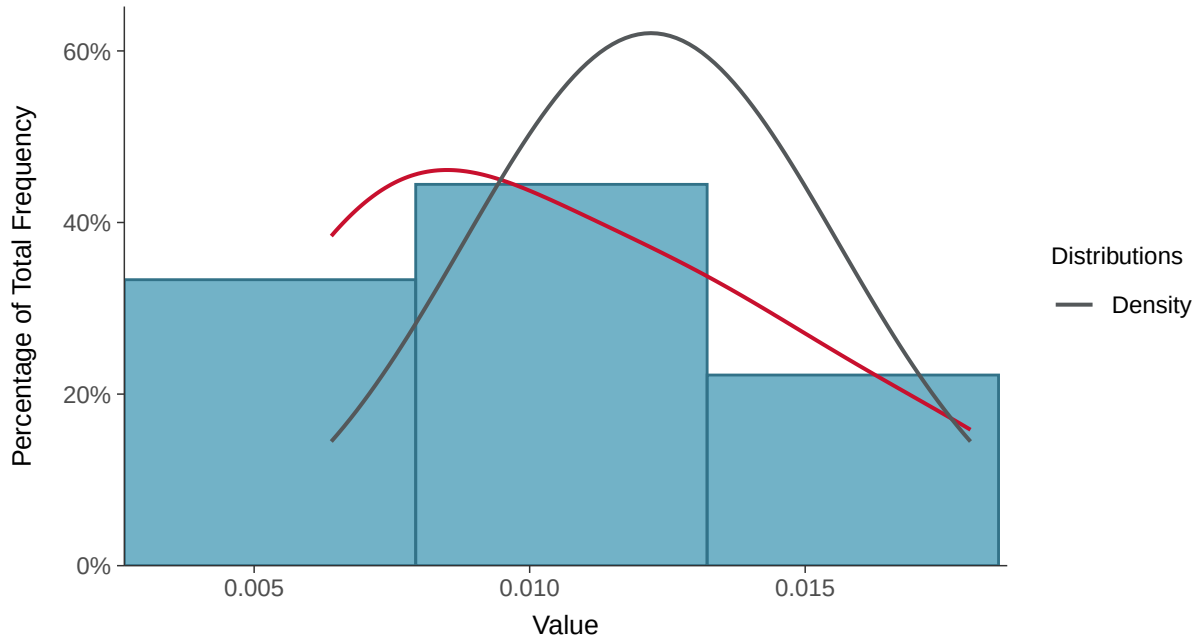
Scatter Plot

Molybdenum, MW-37 (mg/L)



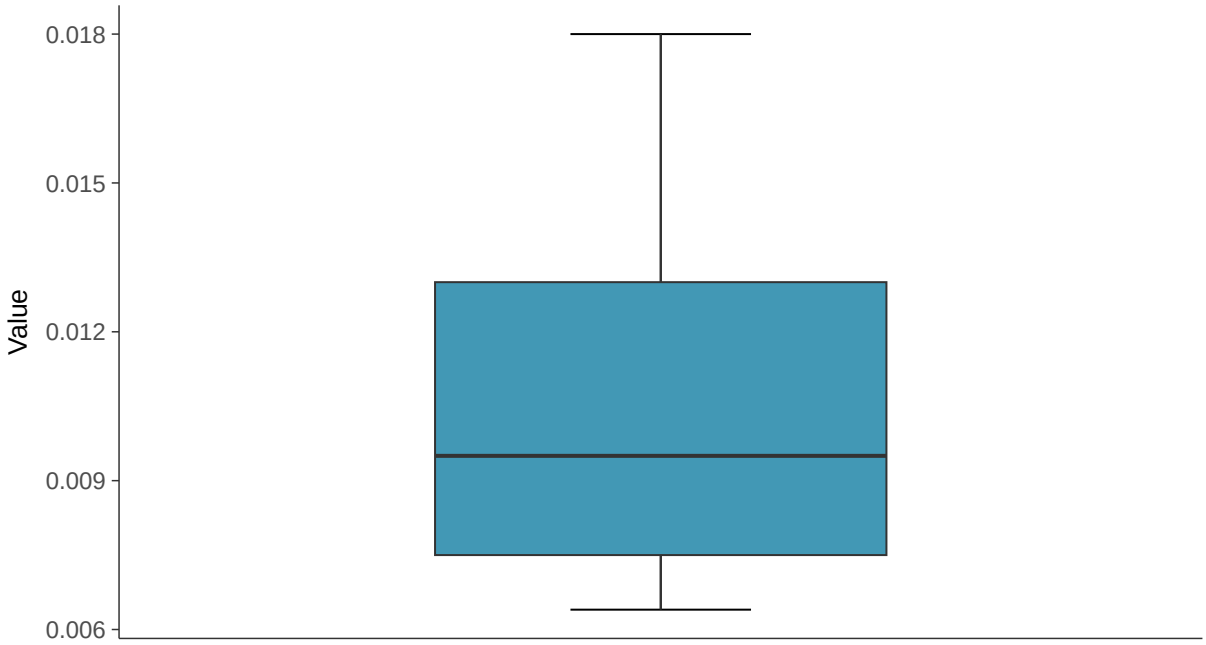
Histogram

Molybdenum, MW-37 (mg/L)



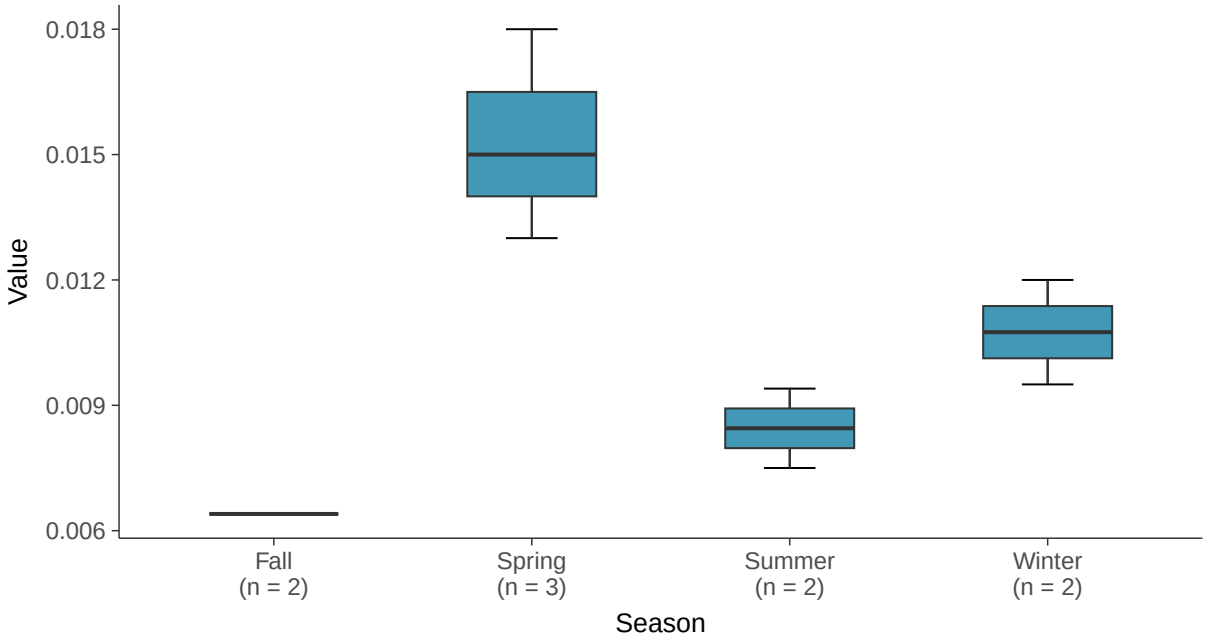
Boxplot

Molybdenum, MW-37 (mg/L)



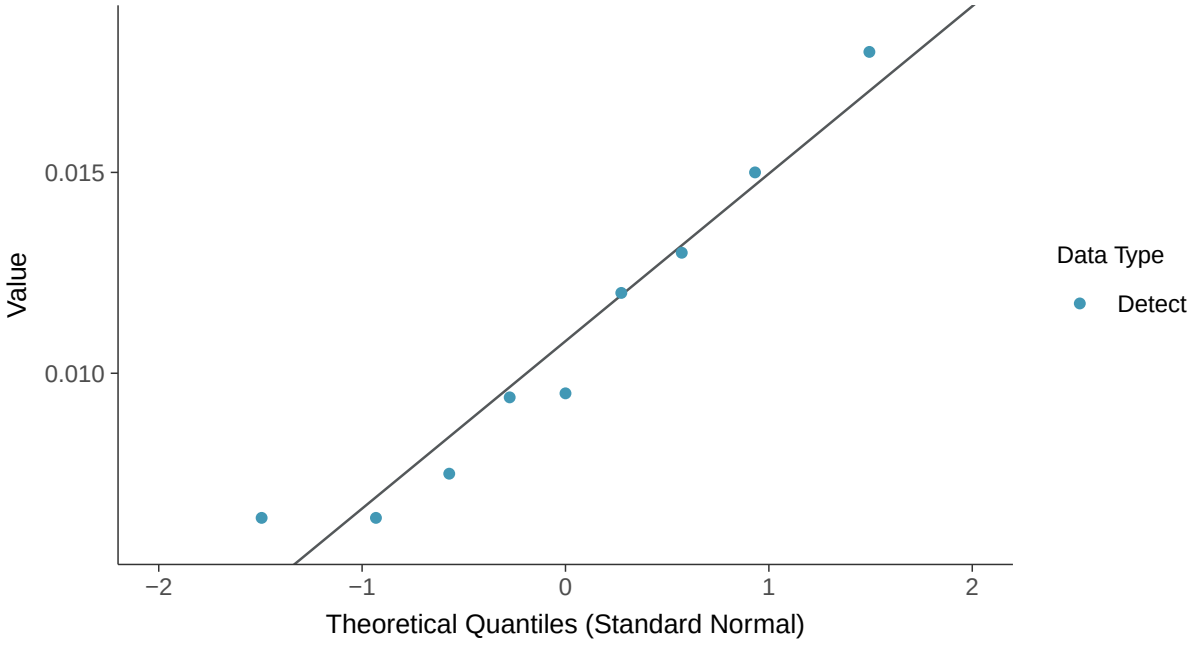
Boxplot by Season

Molybdenum, MW-37 (mg/L)



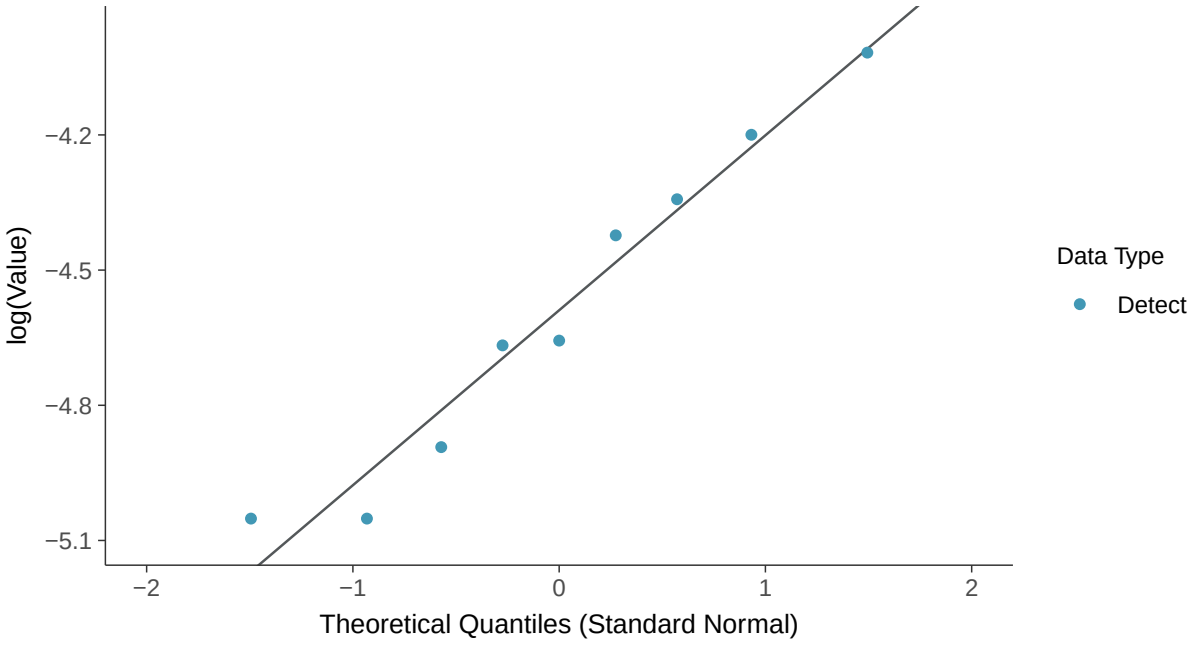
Normal Q-Q plot

Molybdenum, MW-37 (mg/L)



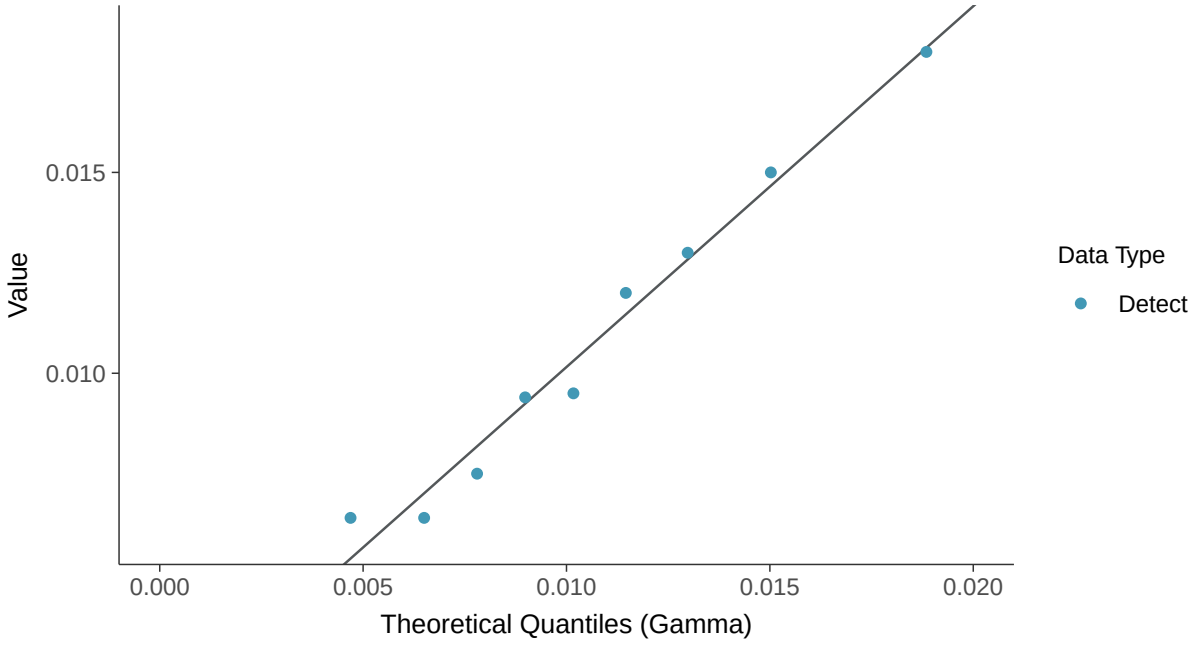
Lognormal Q-Q plot

Molybdenum, MW-37 (mg/L)



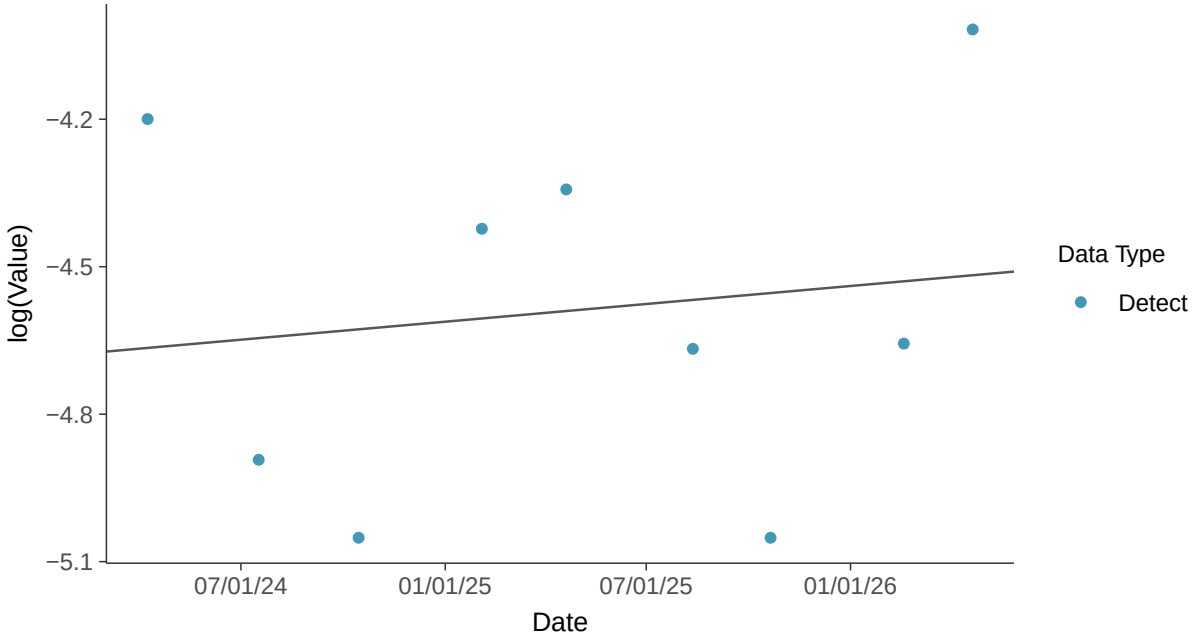
Gamma Q-Q plot

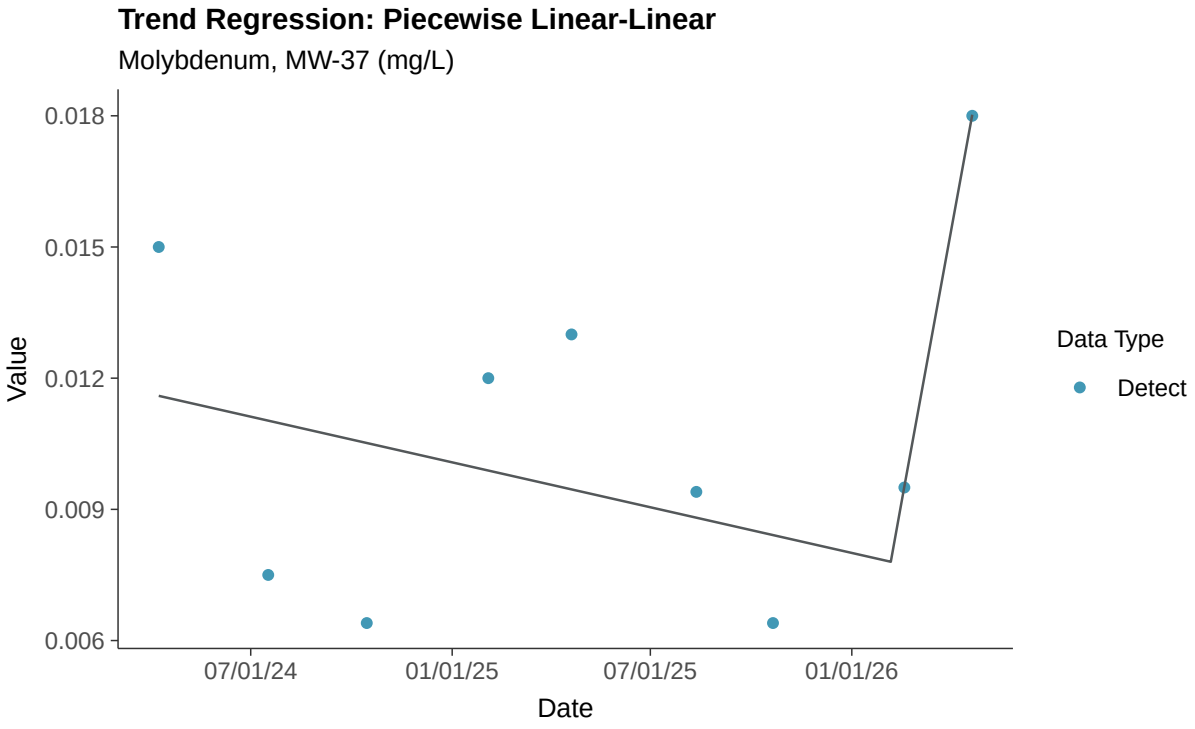
Molybdenum, MW-37 (mg/L)



Trend Regression: Lognormal MLE

Molybdenum, MW-37 (mg/L)



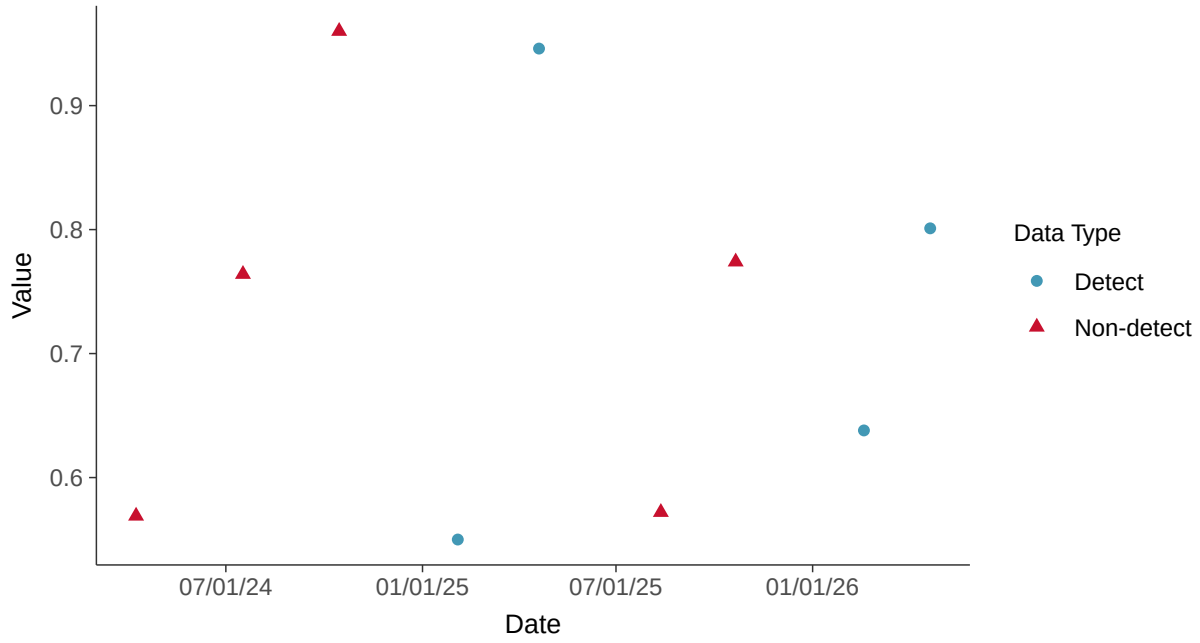

Trend Regression: Piecewise Linear-Linear
Molybdenum, MW-37 (mg/L)
0.018
0.015
0.012
0.009
0.006
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect

Appendix IV: Radium 226 and 228, MW-37

ID: 47_1_4_121

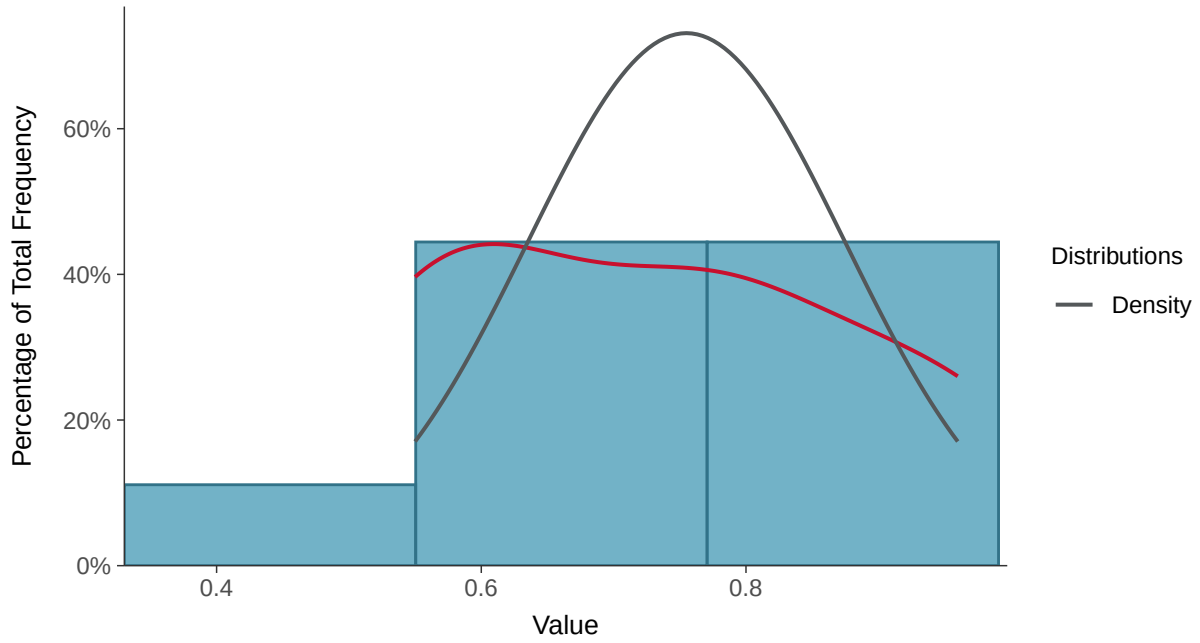
Scatter Plot

Radium 226 and 228, MW-37 (pCi/L)



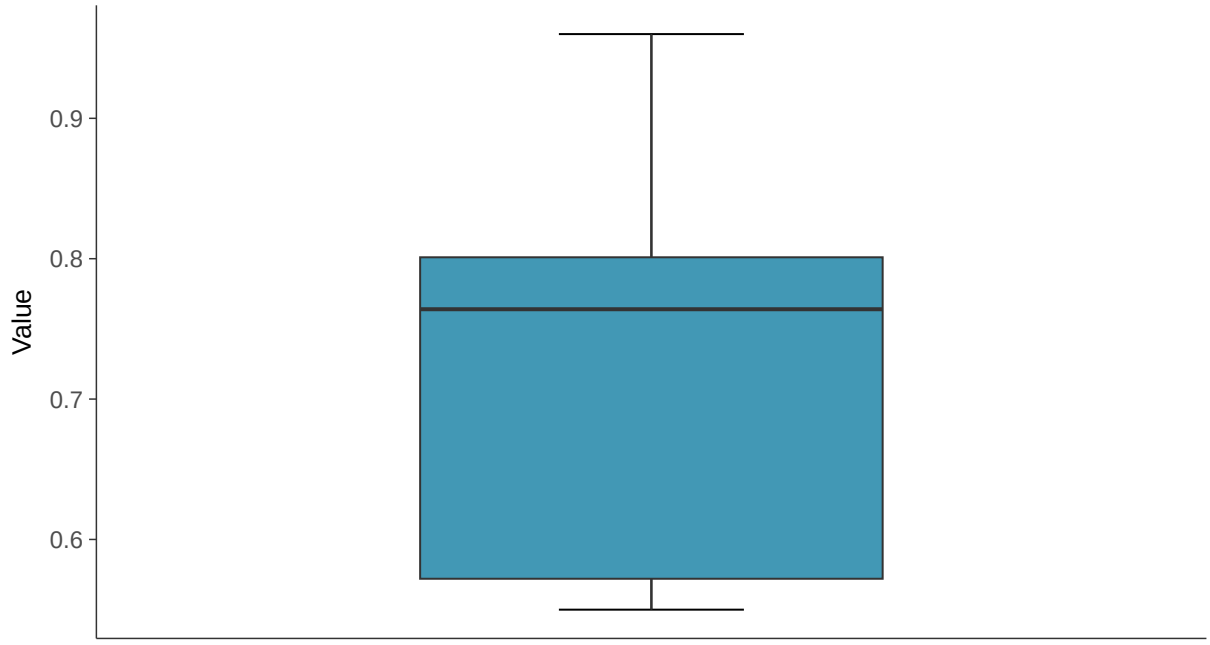
Histogram

Radium 226 and 228, MW-37 (pCi/L)



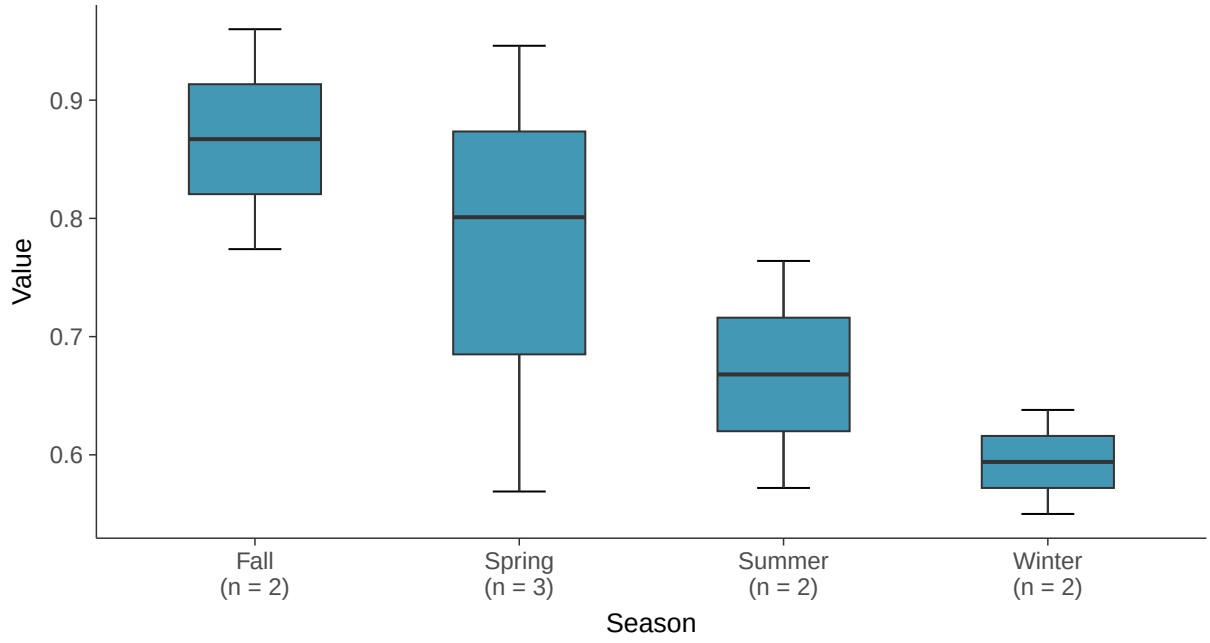
Boxplot

Radium 226 and 228, MW-37 (pCi/L)



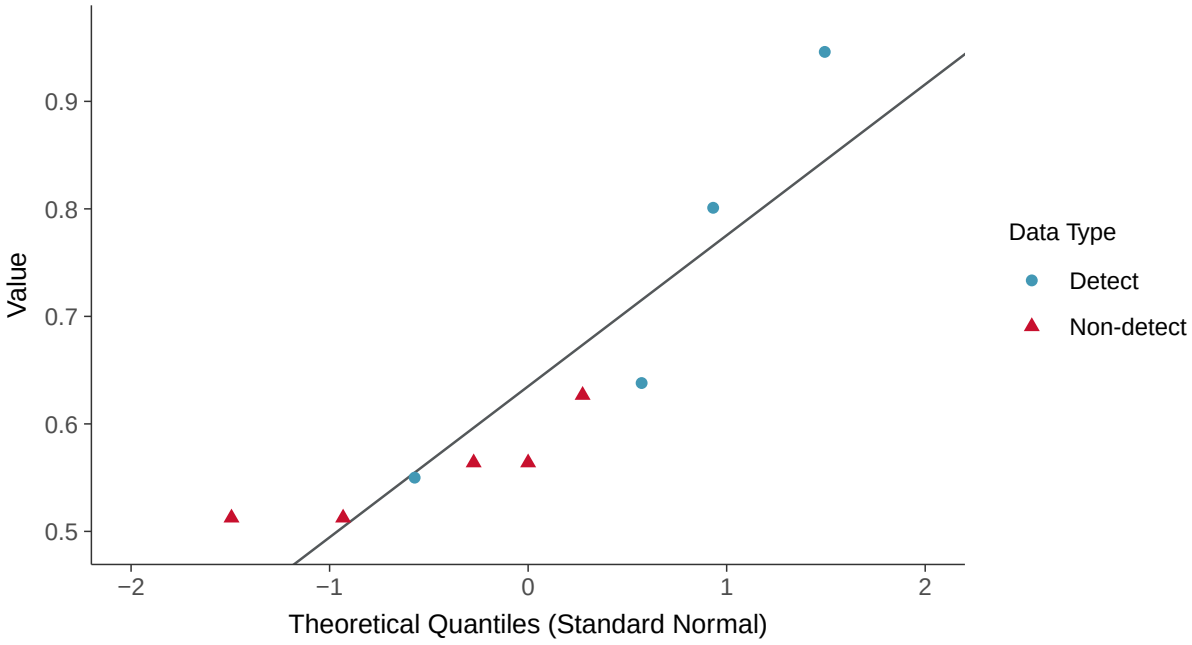
Boxplot by Season

Radium 226 and 228, MW-37 (pCi/L)



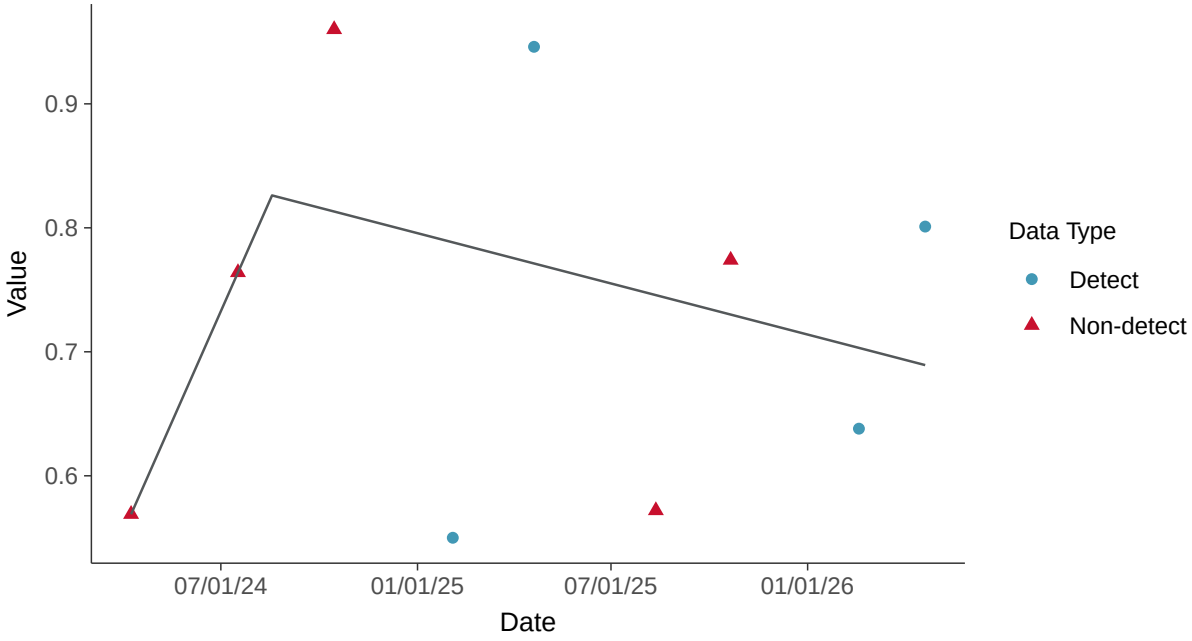
Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-37 (pCi/L)



Trend Regression: Piecewise Linear-Linear

Radium 226 and 228, MW-37 (pCi/L)

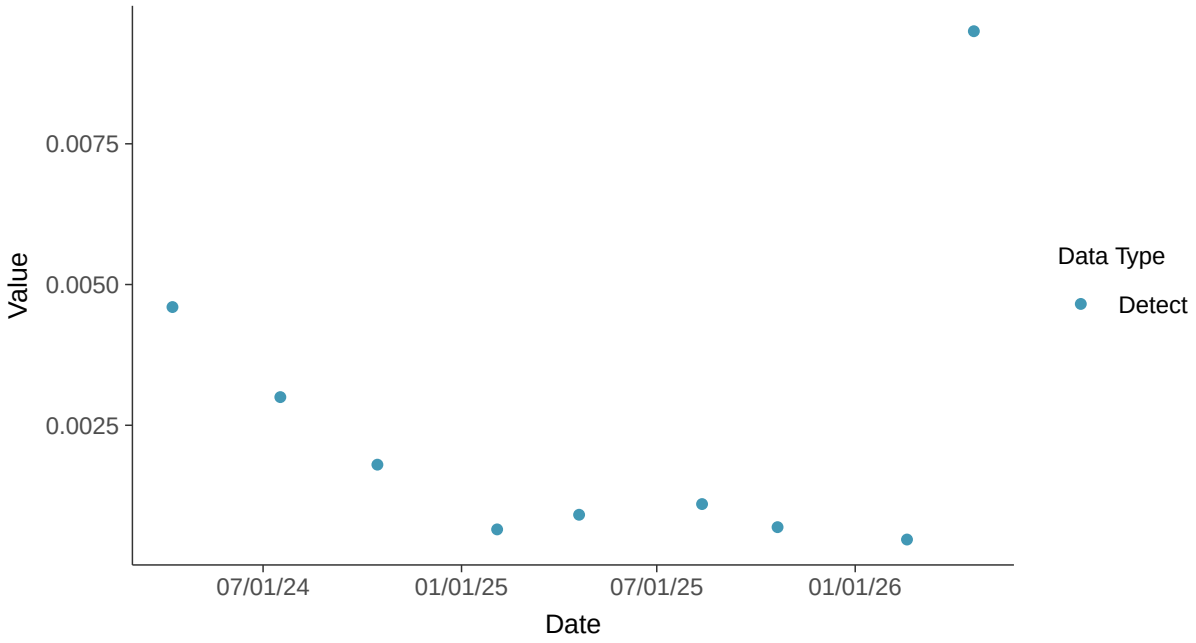


Appendix IV: Selenium, MW-37

ID: 47_1_4_122

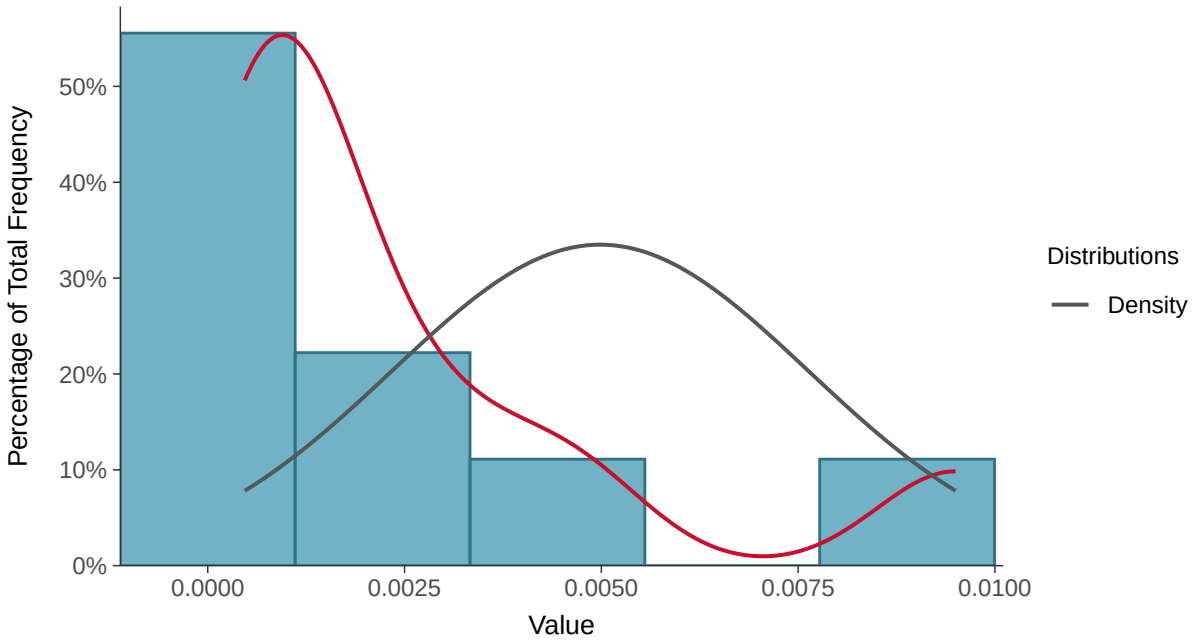
Scatter Plot

Selenium, MW-37 (mg/L)



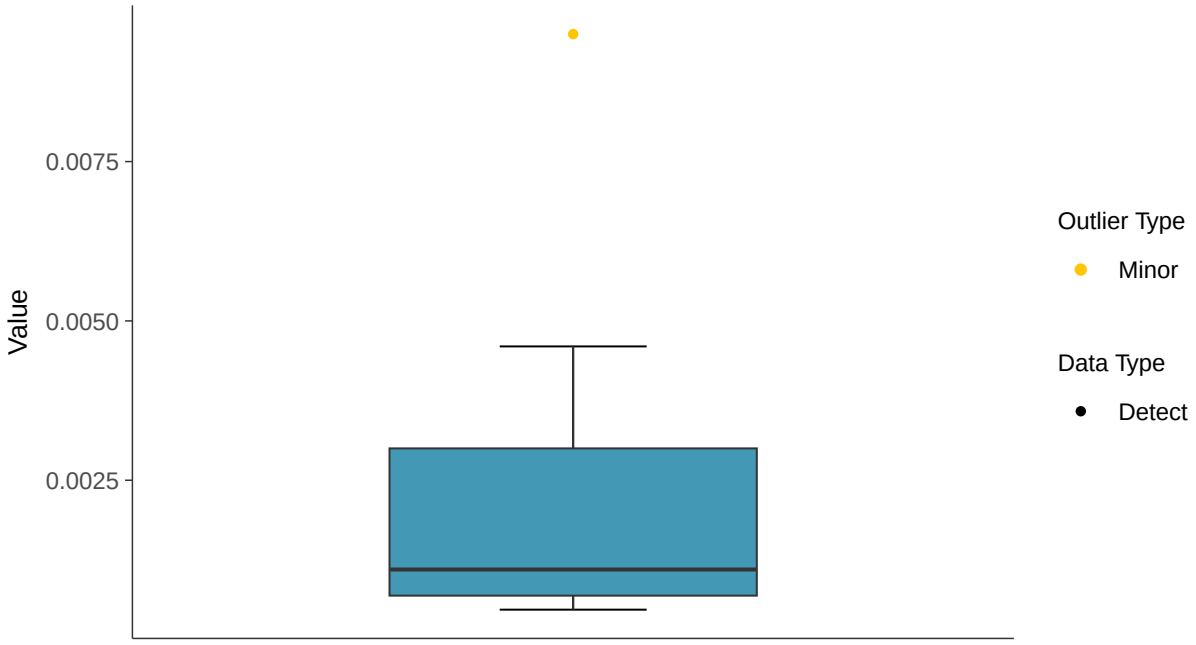
Histogram

Selenium, MW-37 (mg/L)



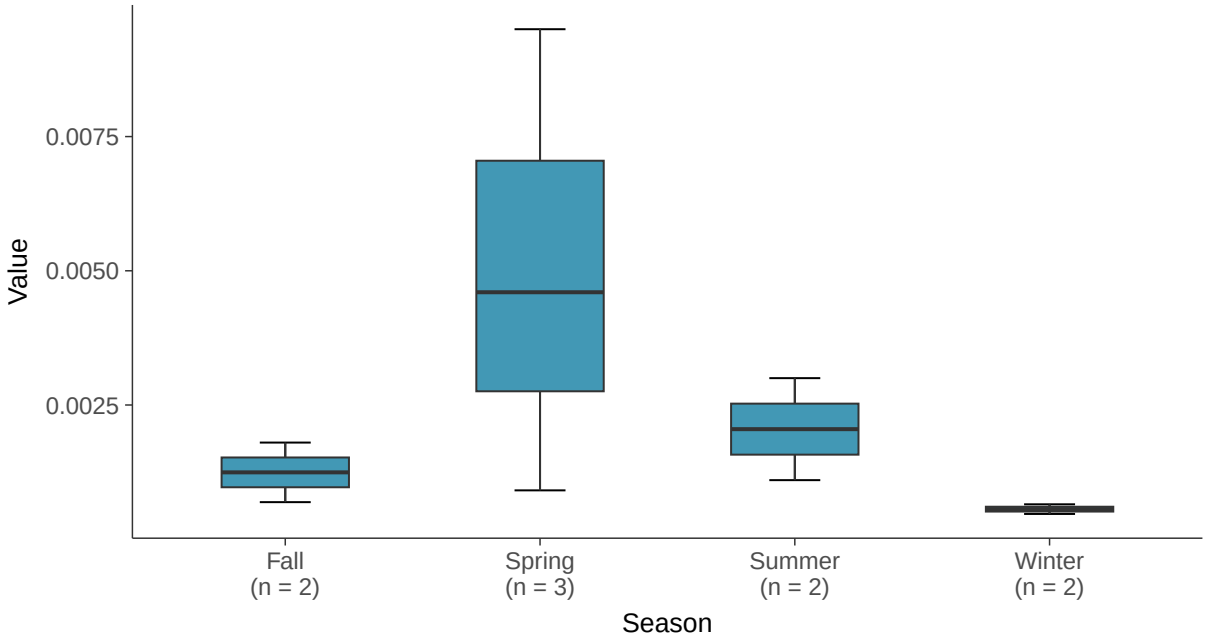
Boxplot

Selenium, MW-37 (mg/L)



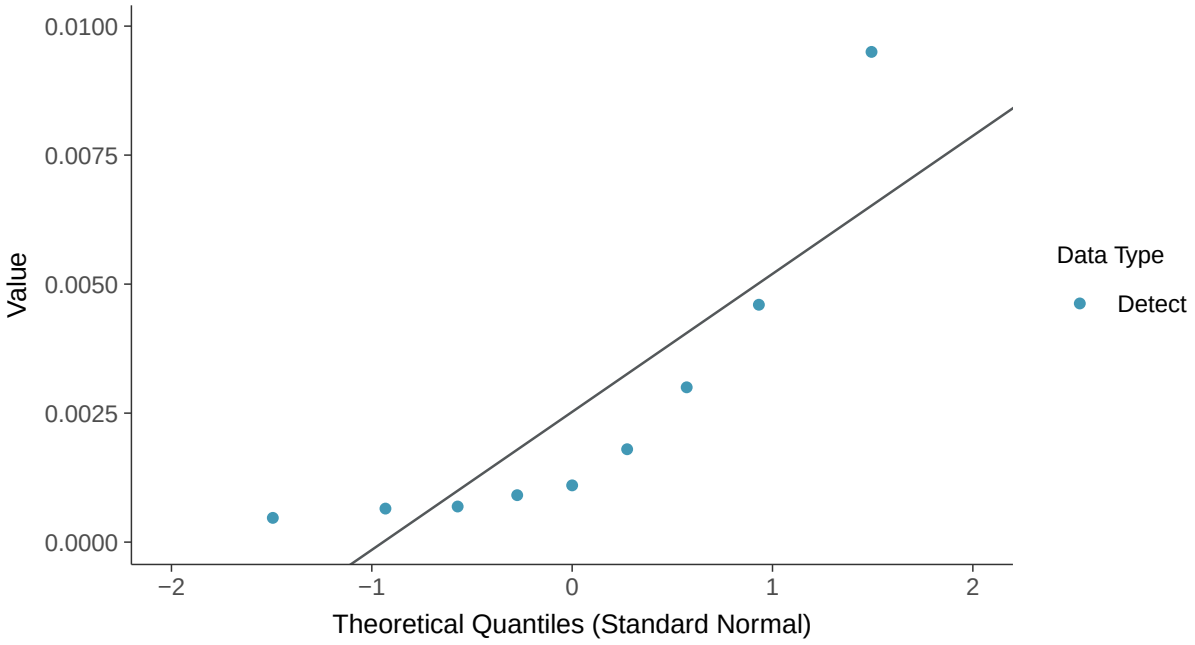
Boxplot by Season

Selenium, MW-37 (mg/L)



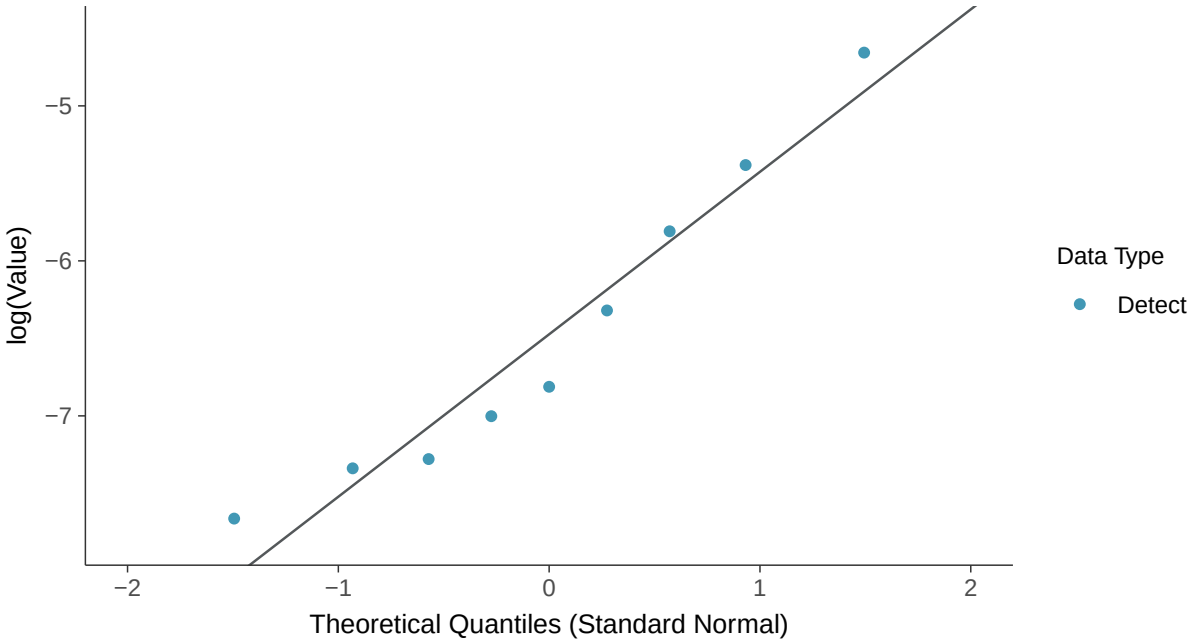
Normal Q-Q plot

Selenium, MW-37 (mg/L)



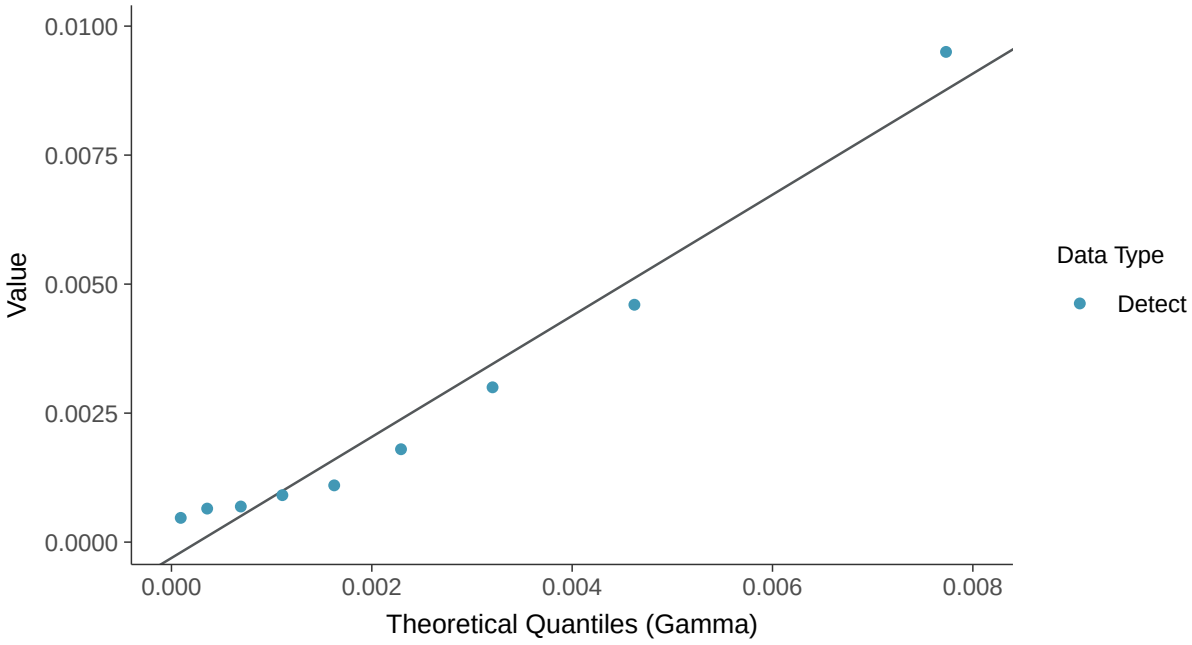
Lognormal Q-Q plot

Selenium, MW-37 (mg/L)



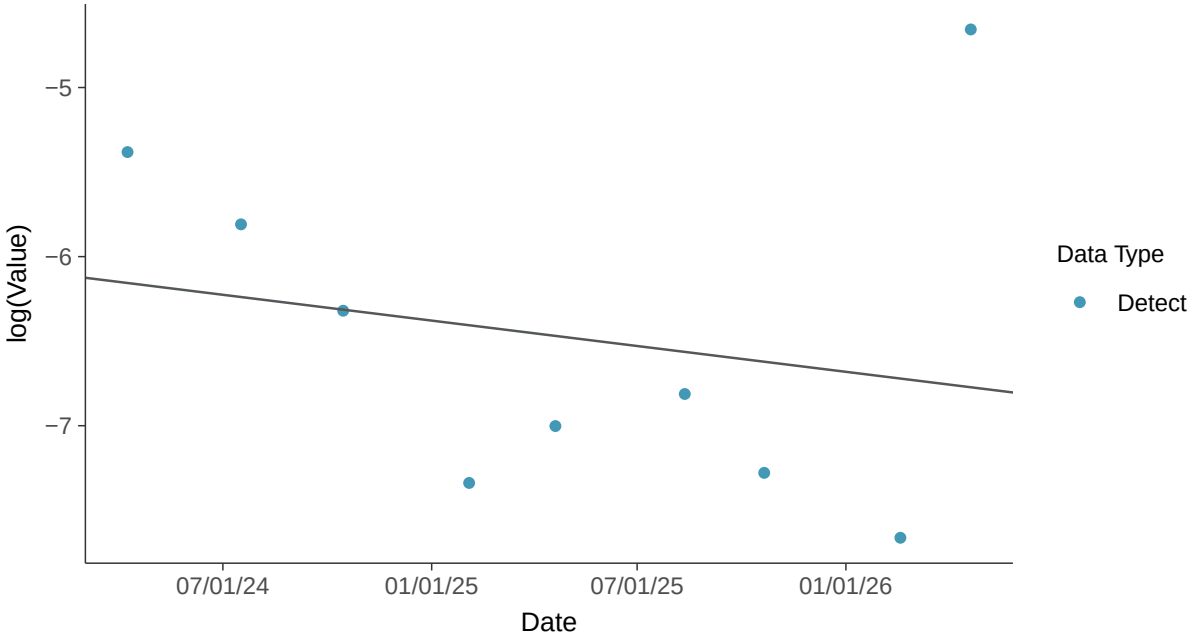
Gamma Q-Q plot

Selenium, MW-37 (mg/L)



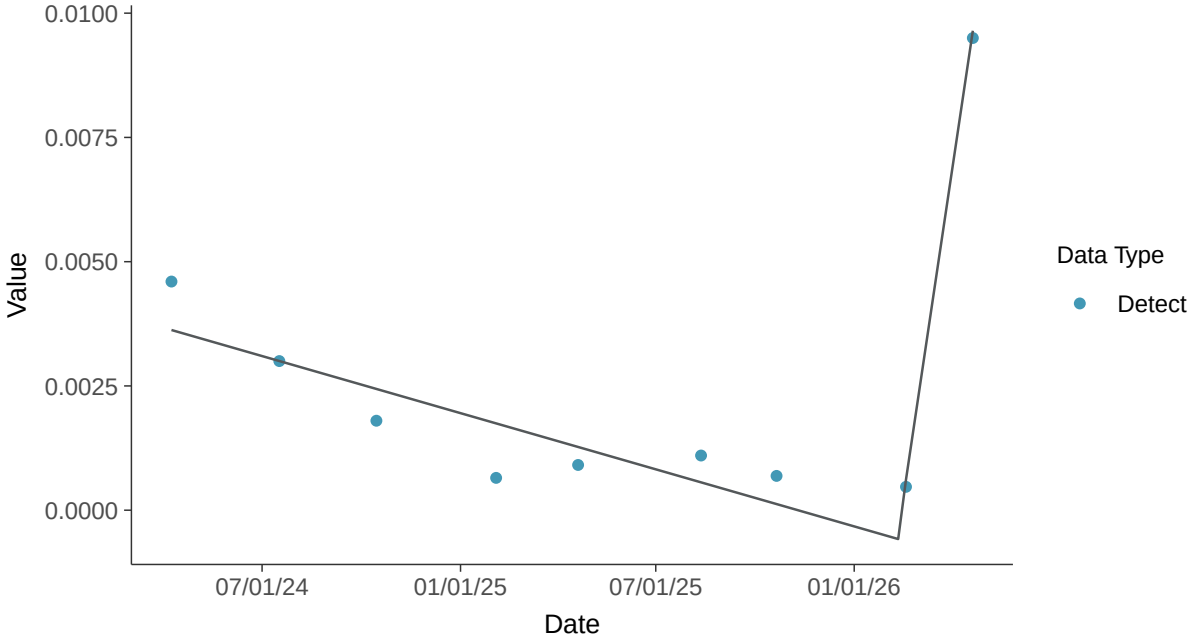
Trend Regression: Lognormal MLE

Selenium, MW-37 (mg/L)



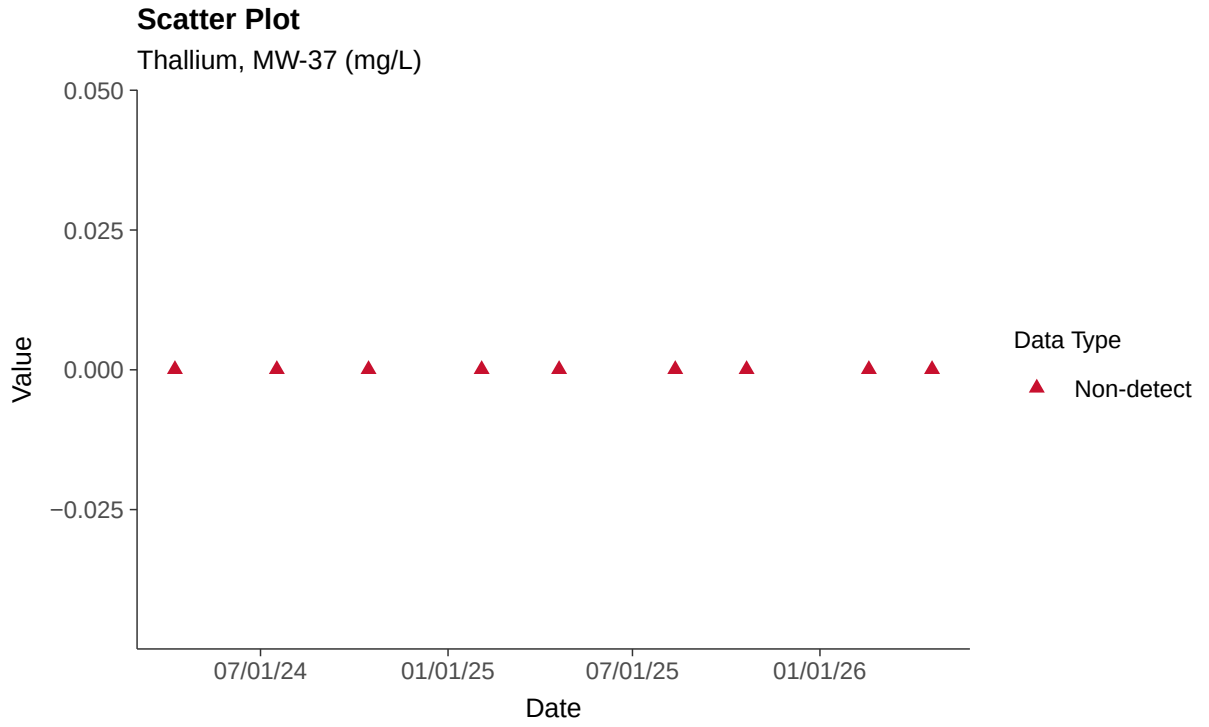
Trend Regression: Piecewise Linear-Linear

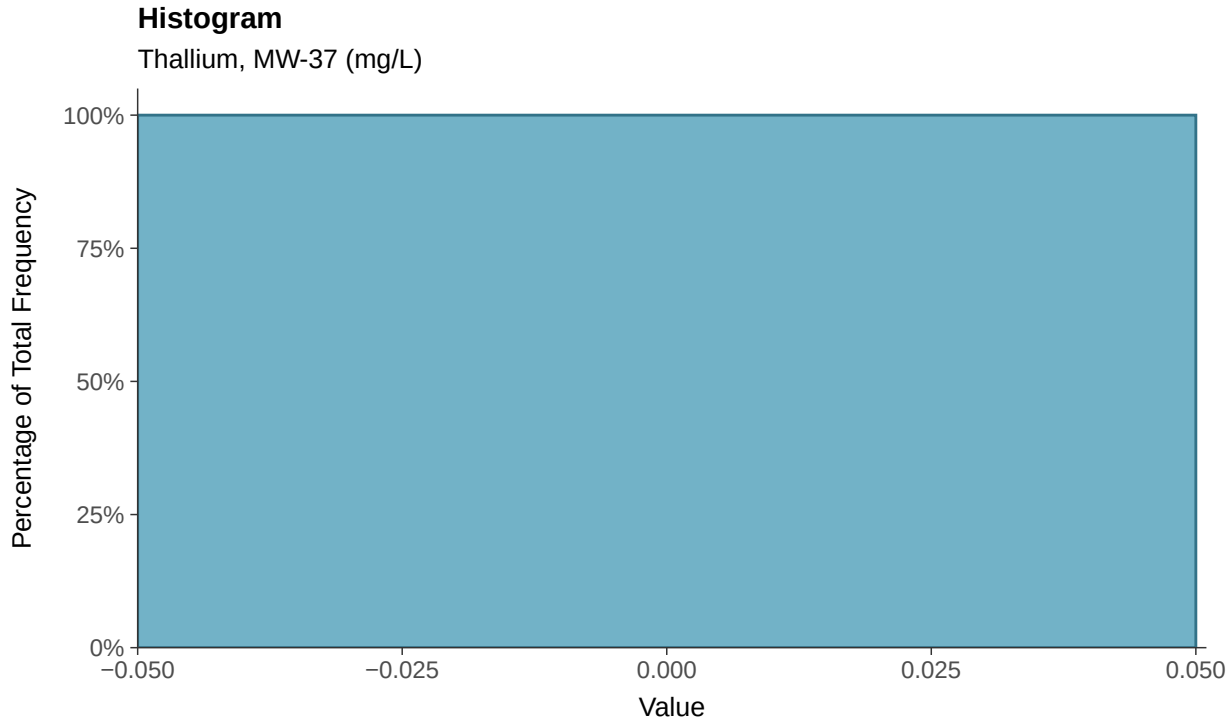
Selenium, MW-37 (mg/L)



Appendix IV: Thallium, MW-37

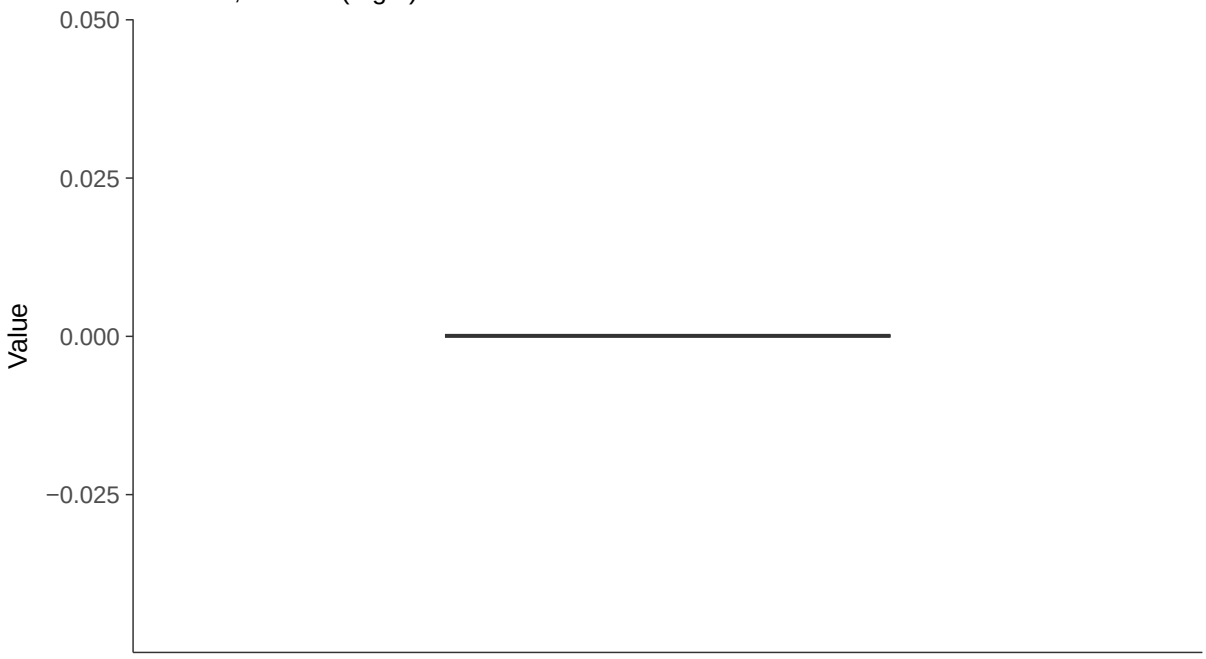
ID: 47_1_4_125





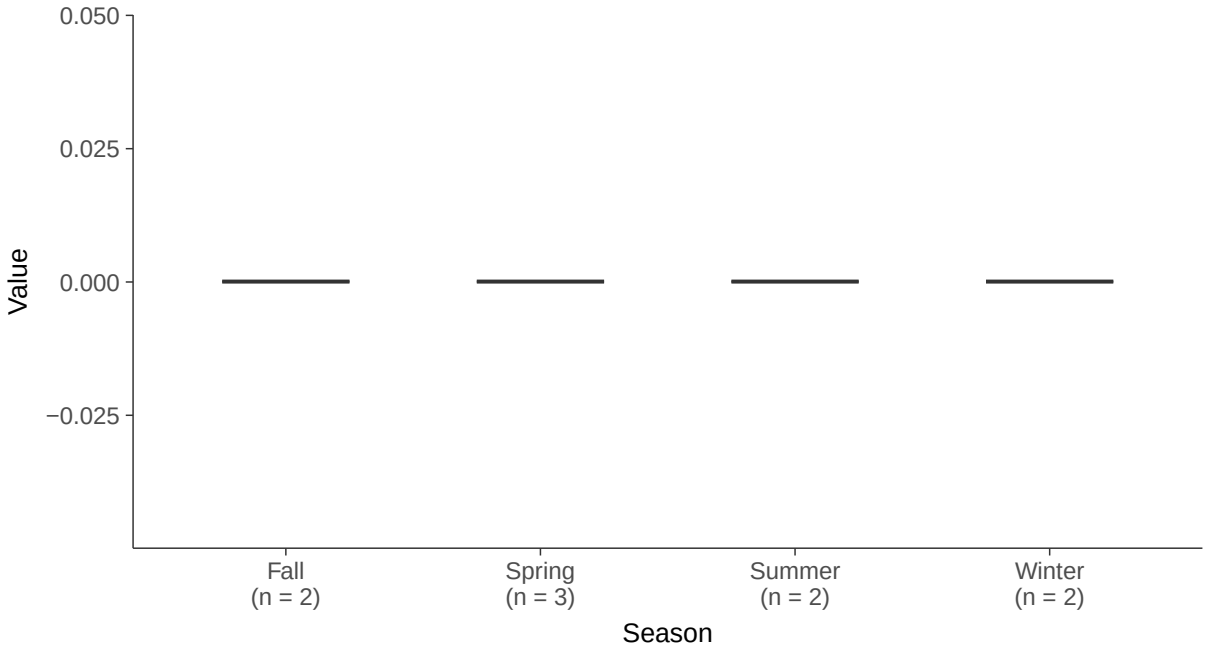
Boxplot

Thallium, MW-37 (mg/L)



Boxplot by Season

Thallium, MW-37 (mg/L)

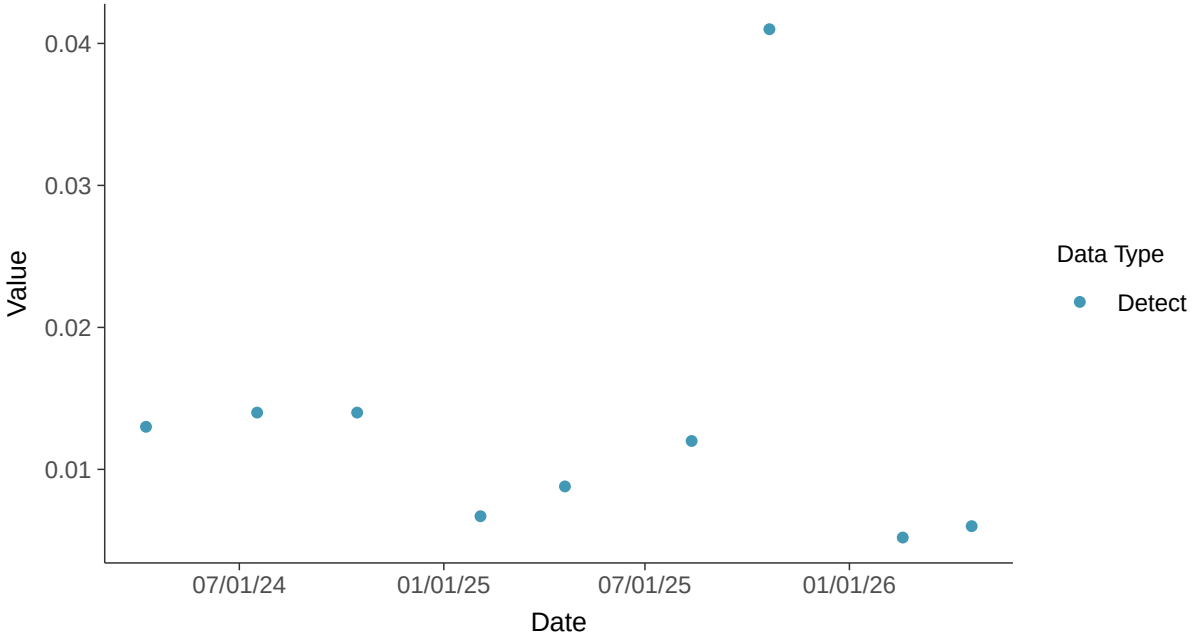


Part 115: Copper, MW-37

ID: 47_1_5_111

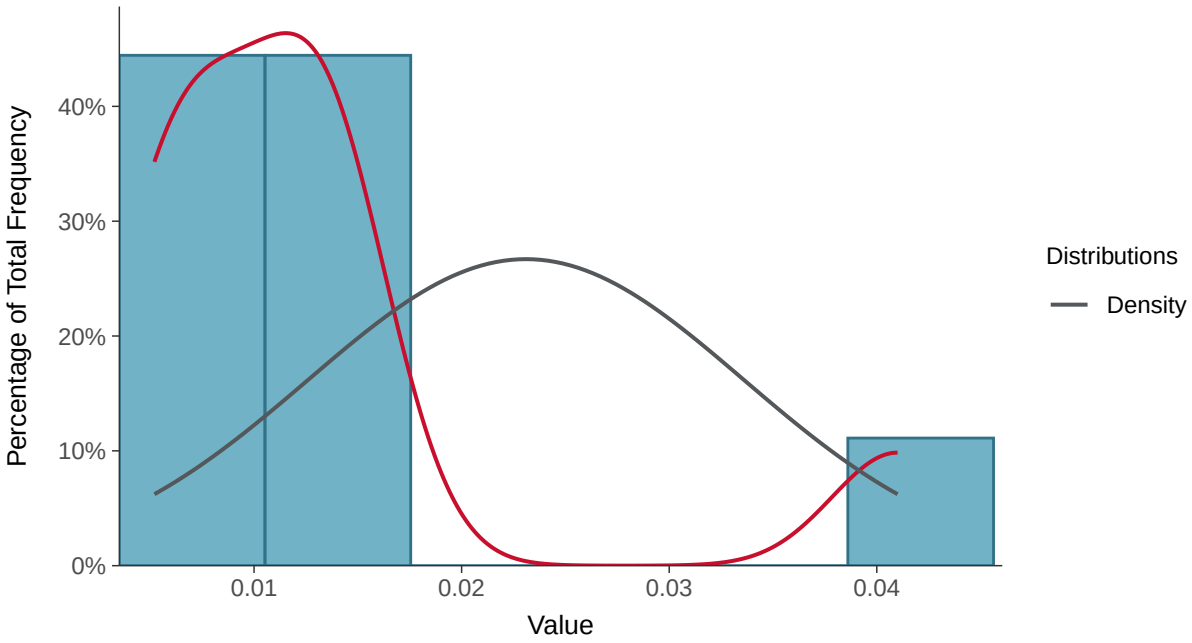
Scatter Plot

Copper, MW-37 (mg/L)



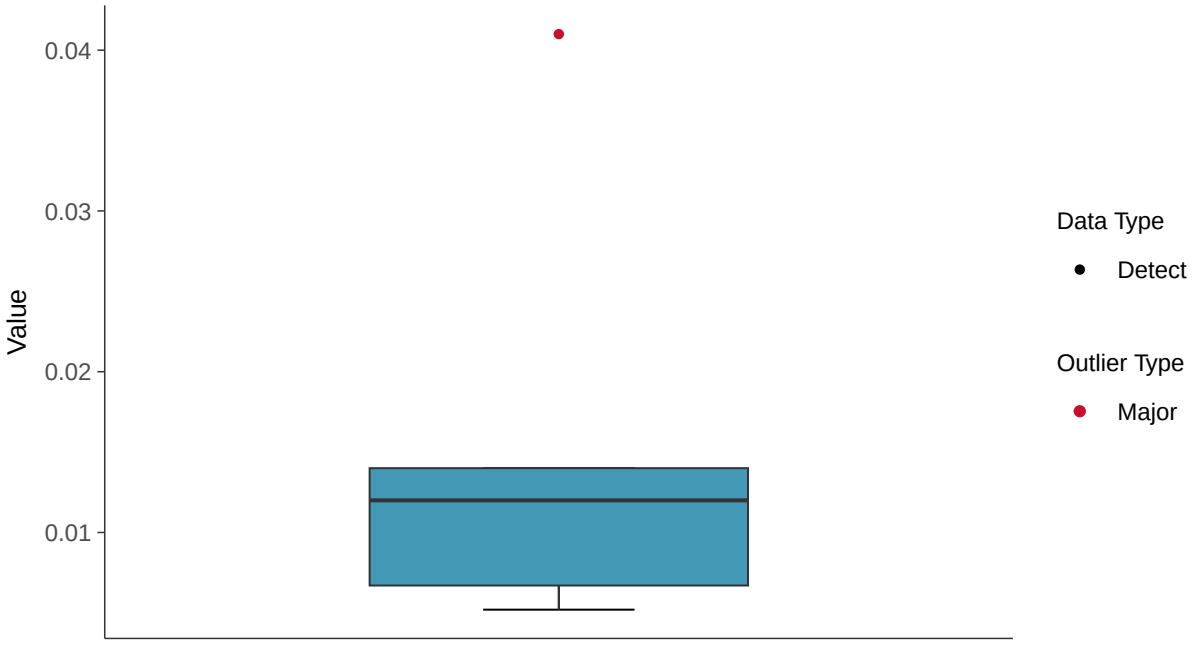
Histogram

Copper, MW-37 (mg/L)



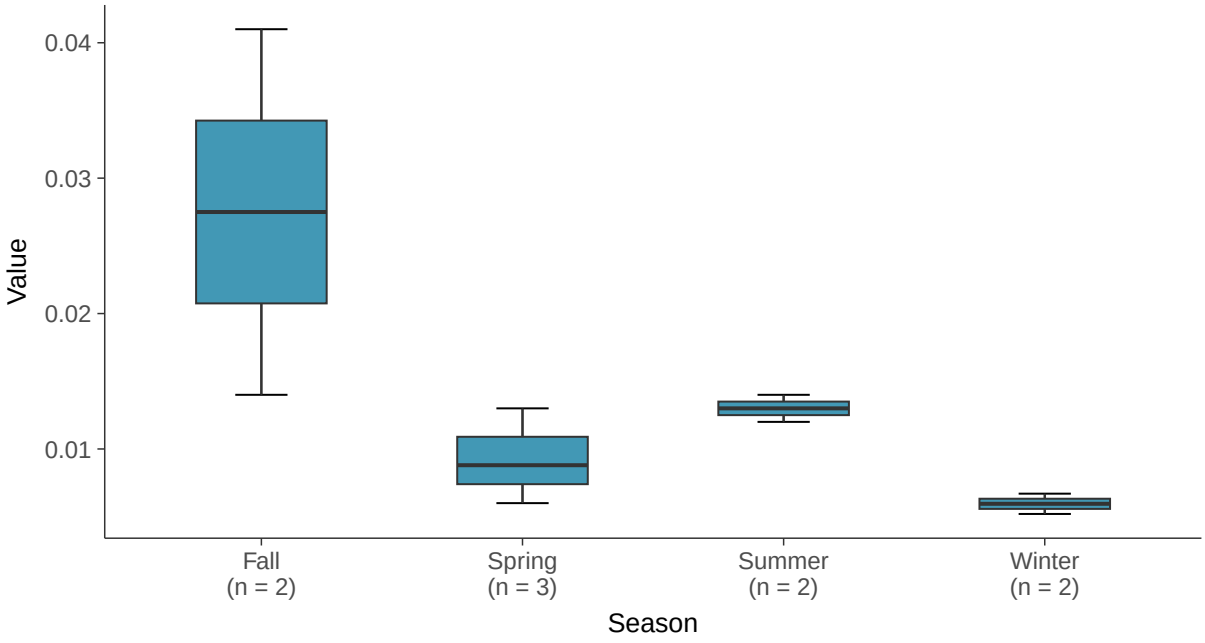
Boxplot

Copper, MW-37 (mg/L)



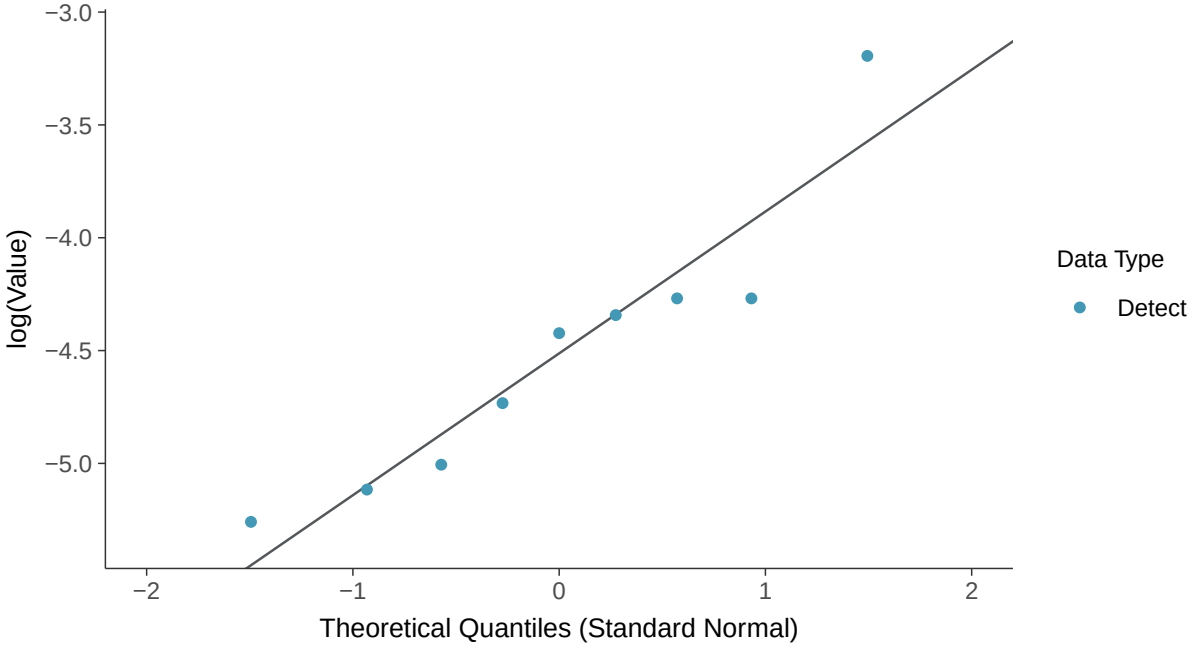
Boxplot by Season

Copper, MW-37 (mg/L)



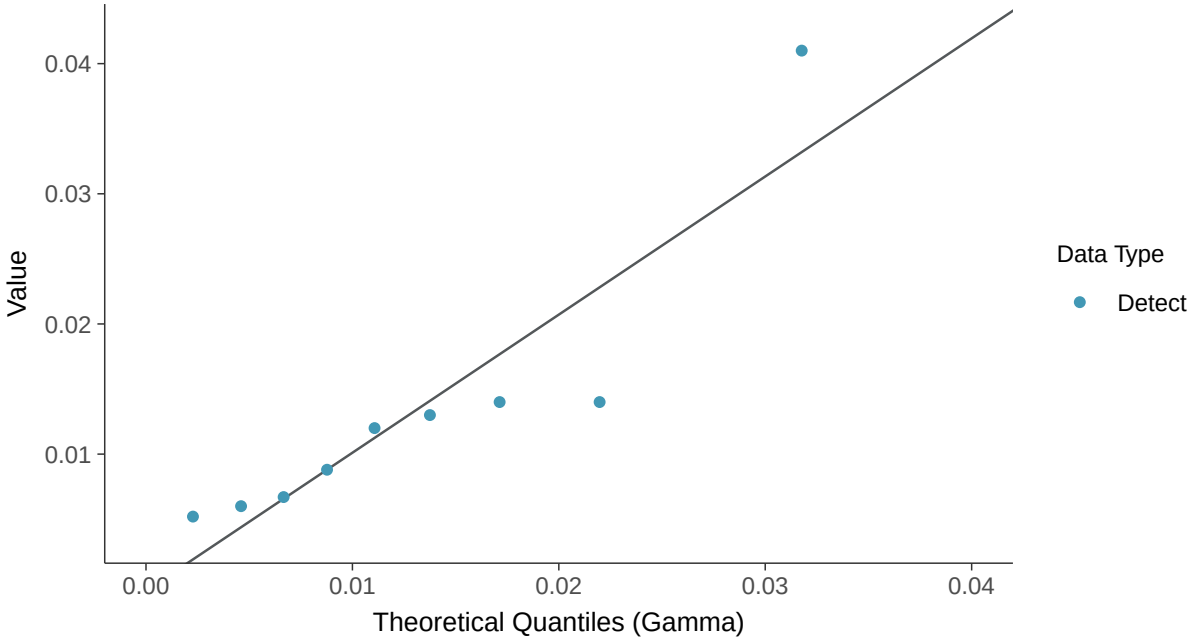
Lognormal Q-Q plot

Copper, MW-37 (mg/L)



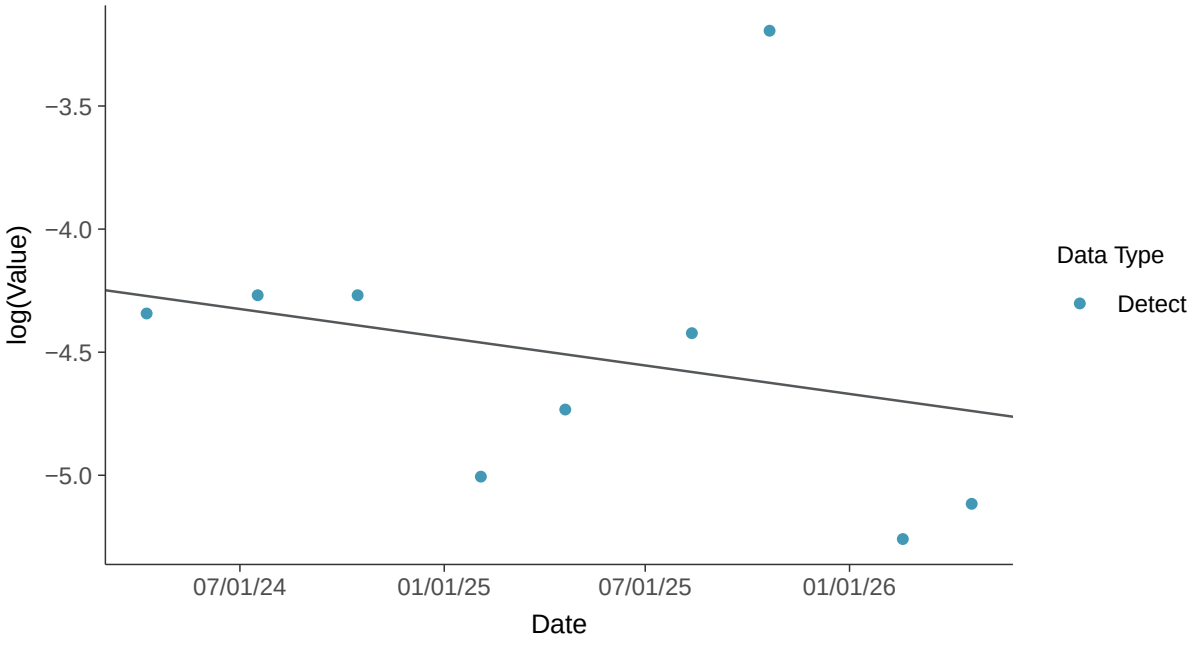
Gamma Q-Q plot

Copper, MW-37 (mg/L)



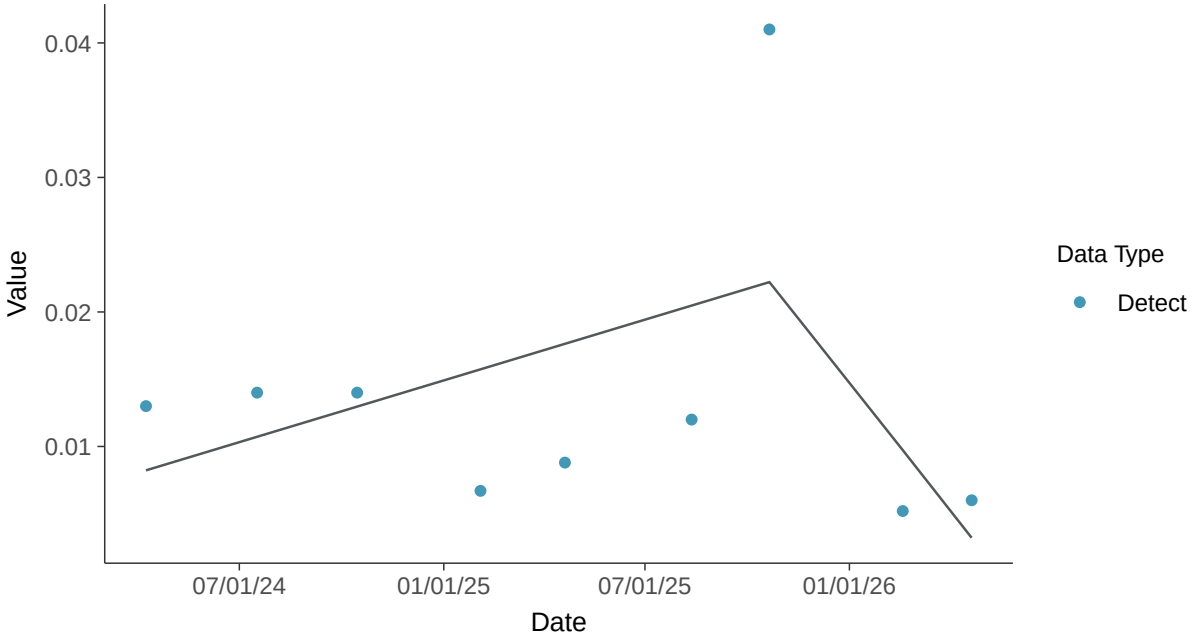
Trend Regression: Lognormal MLE

Copper, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear

Copper, MW-37 (mg/L)

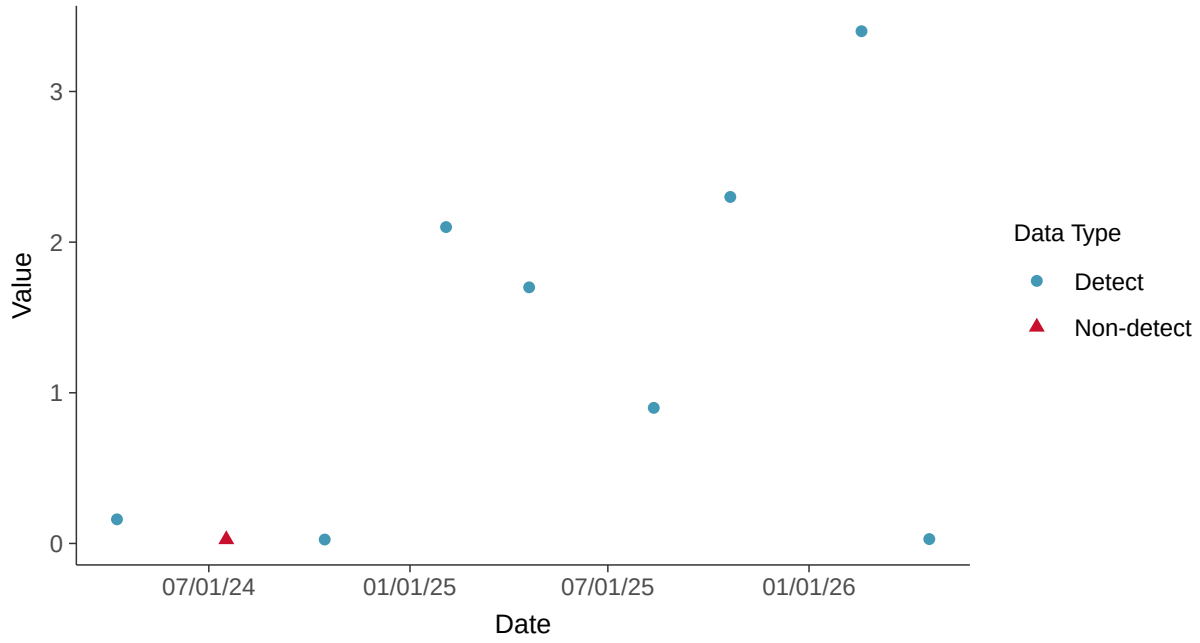


Part 115: Iron, MW-37

ID: 47_1_5_114

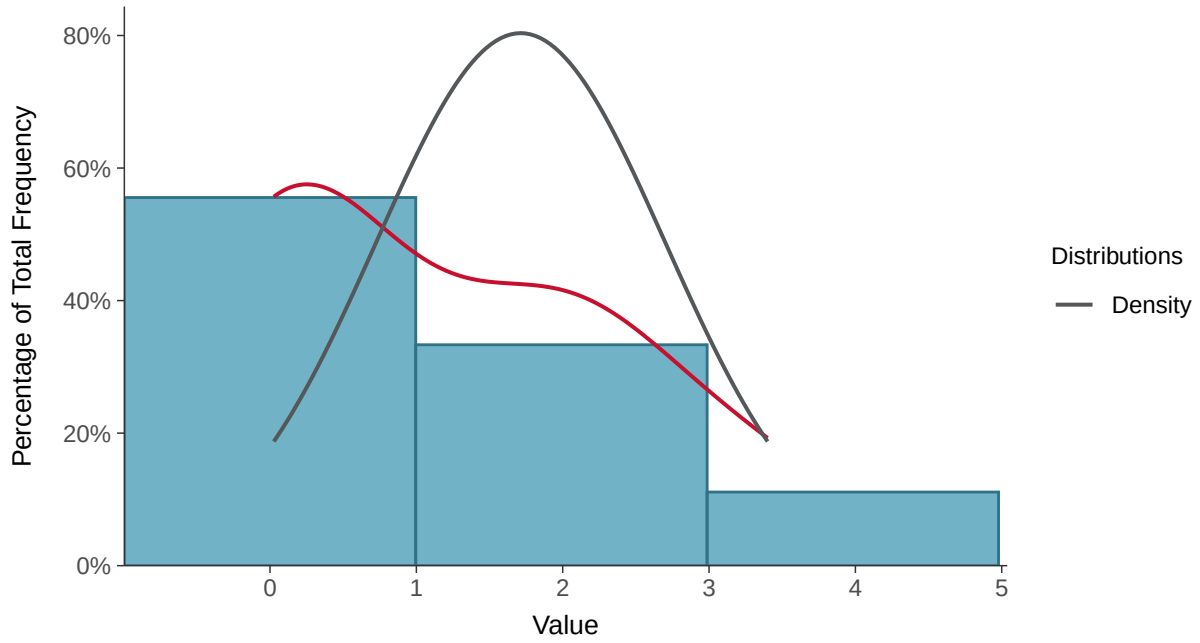
Scatter Plot

Iron, MW-37 (mg/L)



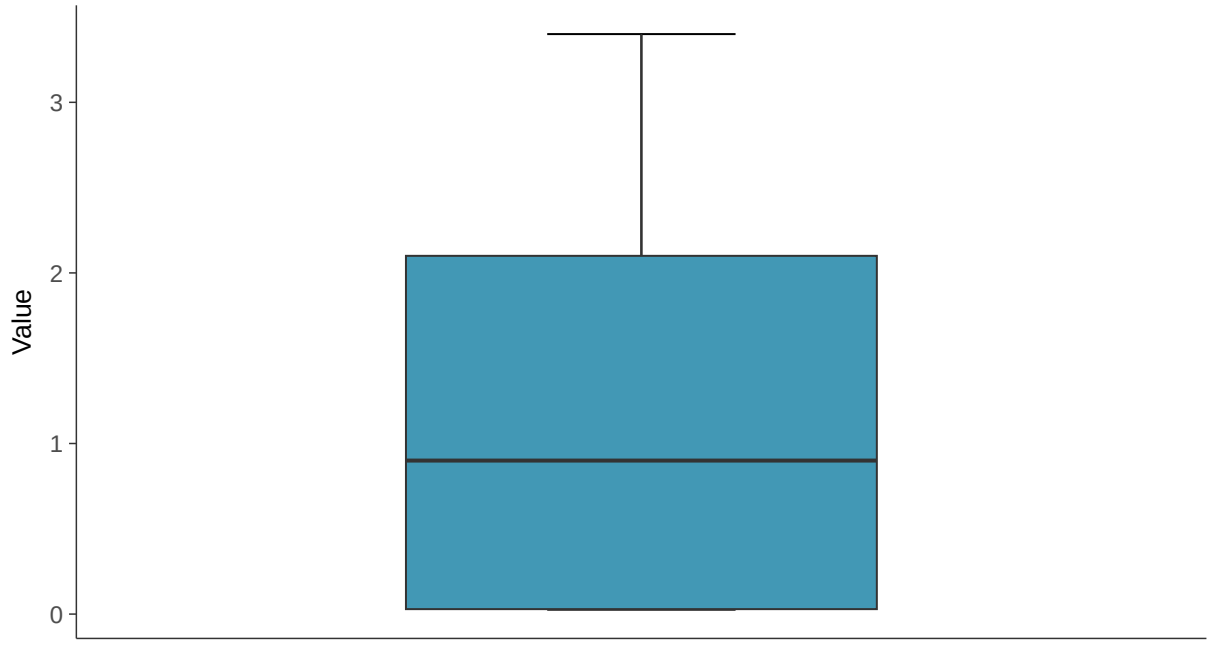
Histogram

Iron, MW-37 (mg/L)



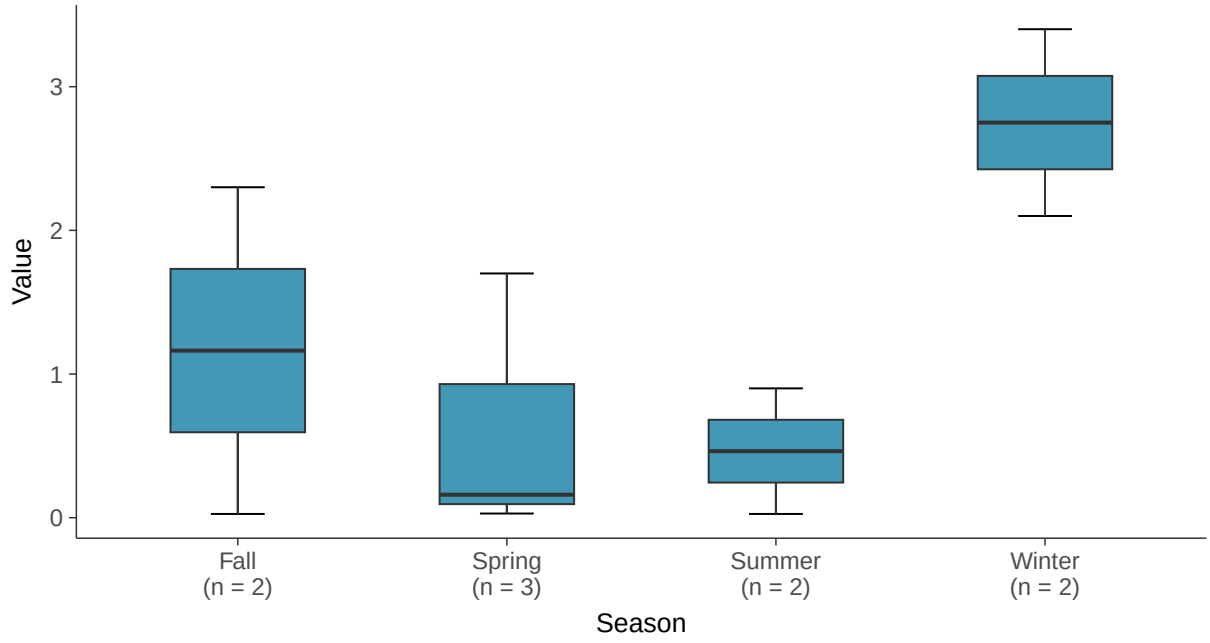
Boxplot

Iron, MW-37 (mg/L)



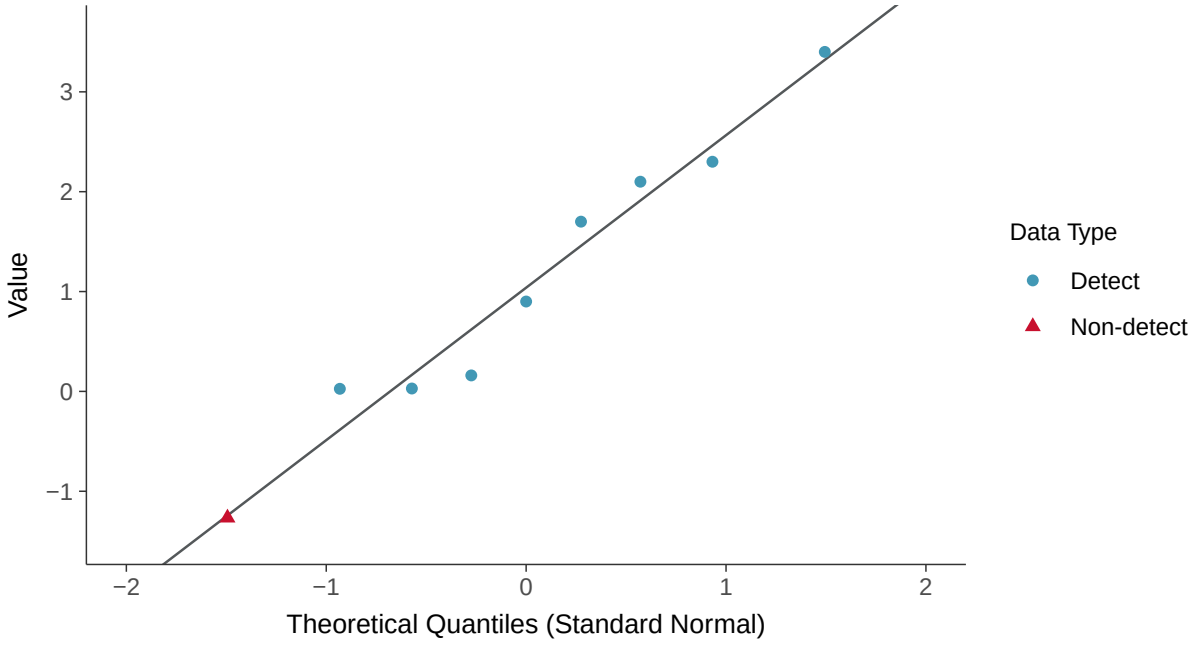
Boxplot by Season

Iron, MW-37 (mg/L)



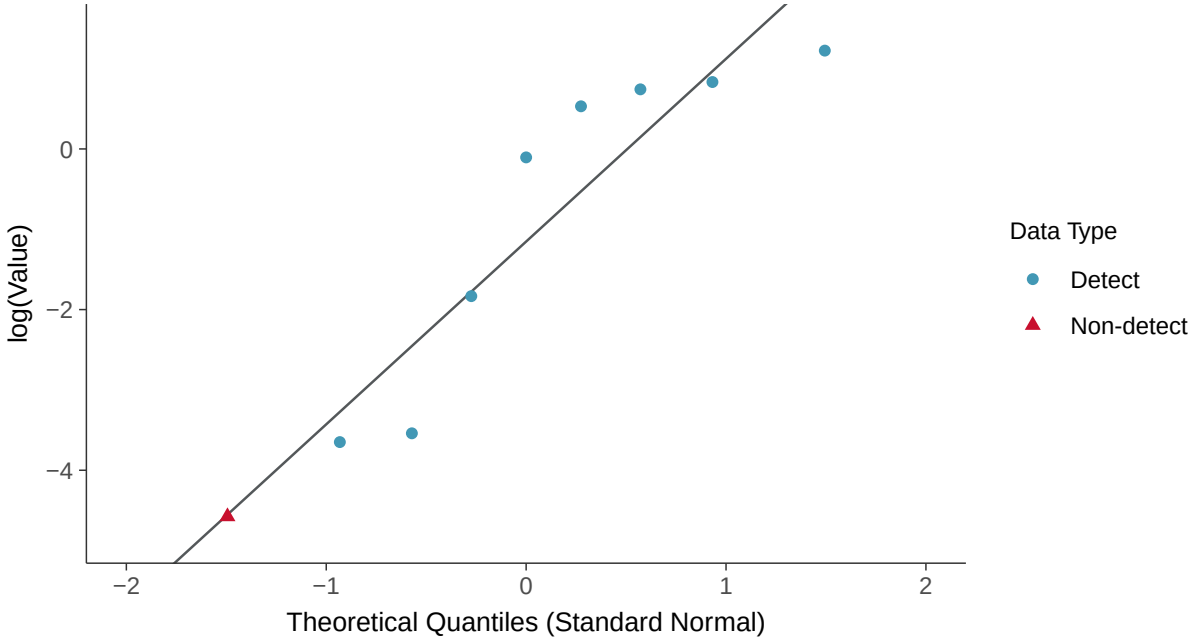
Normal Q-Q plot using ROS Imputed Estimates

Iron, MW-37 (mg/L)



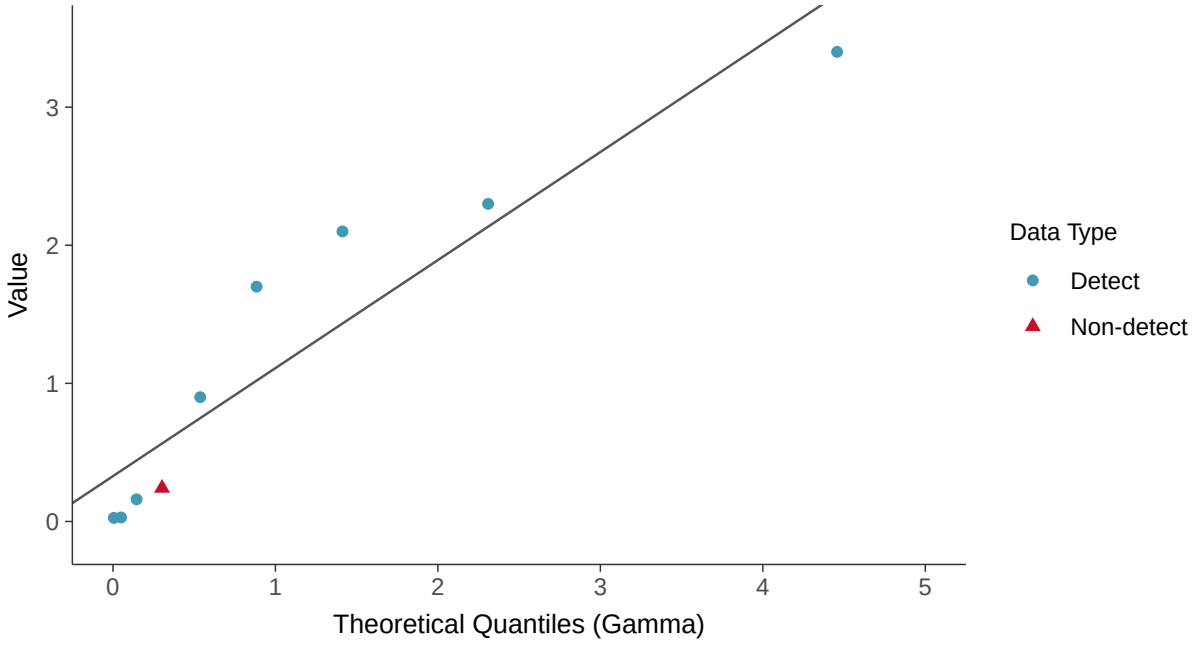
Lognormal Q-Q plot using ROS Imputed Estimates

Iron, MW-37 (mg/L)



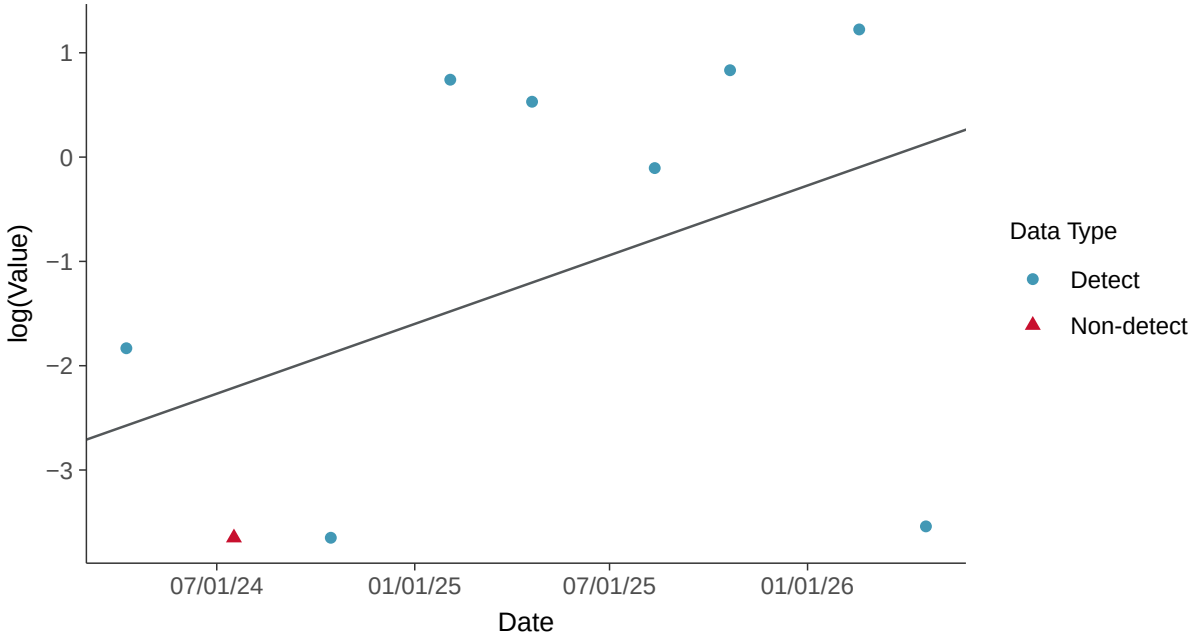
Gamma Q-Q plot using ROS Imputed Estimates

Iron, MW-37 (mg/L)



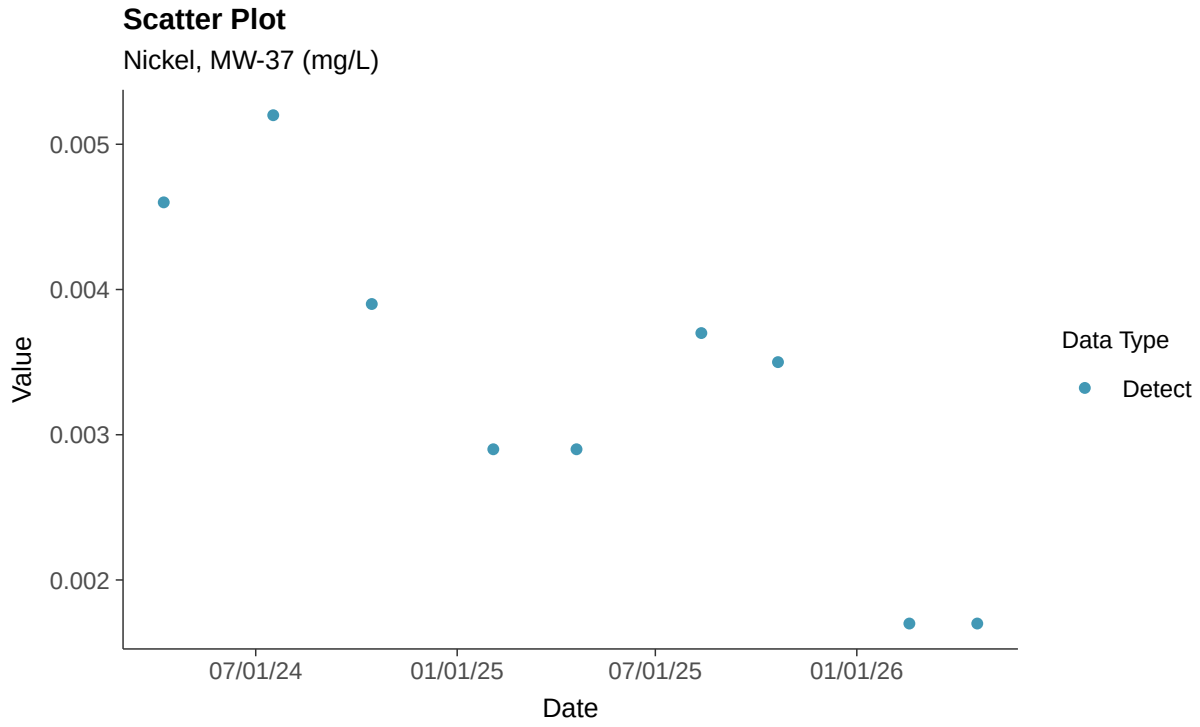
Trend Regression: Lognormal MLE

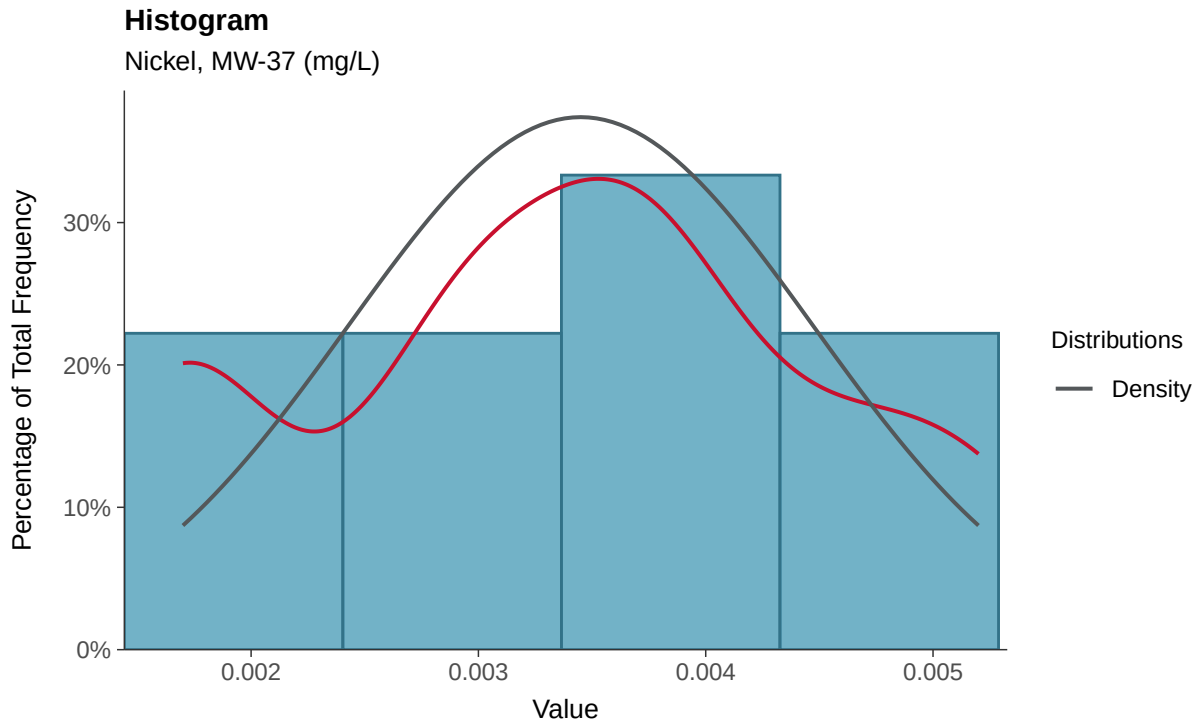
Iron, MW-37 (mg/L)



Part 115: Nickel, MW-37

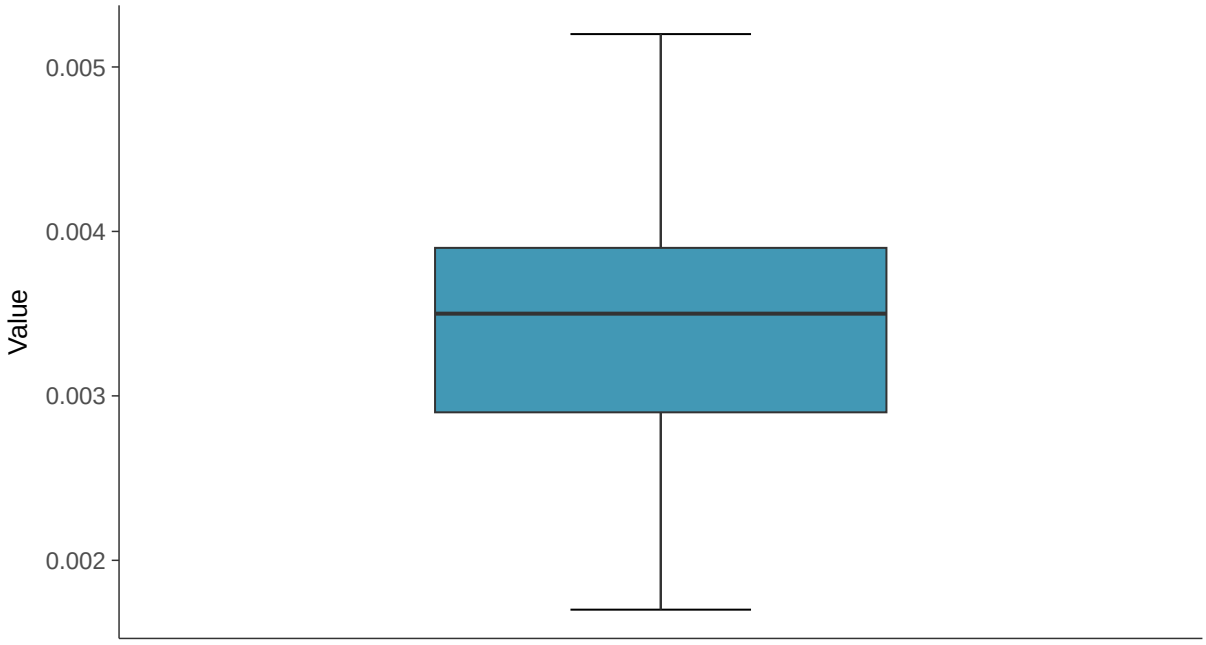
ID: 47_1_5_119





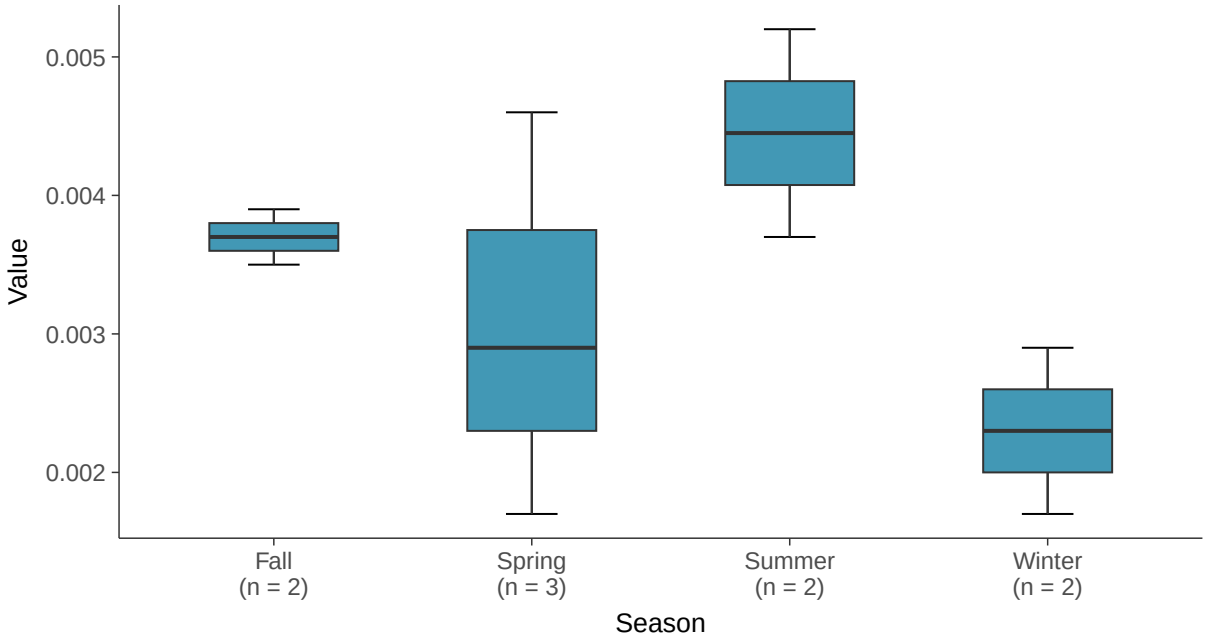
Boxplot

Nickel, MW-37 (mg/L)



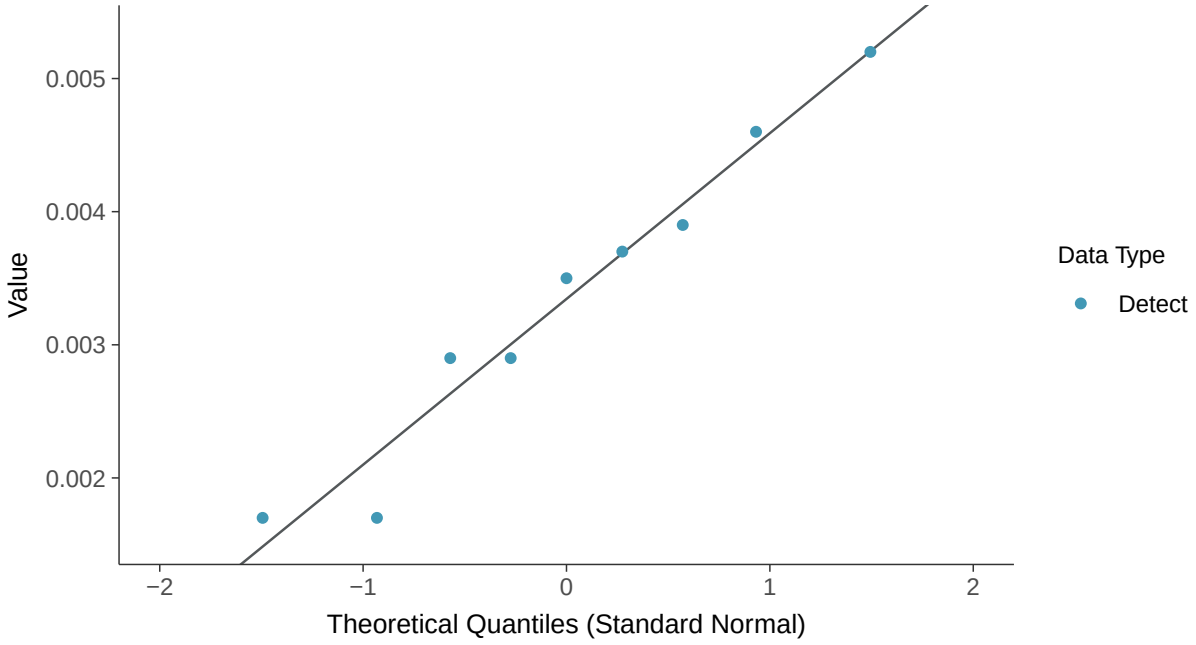
Boxplot by Season

Nickel, MW-37 (mg/L)



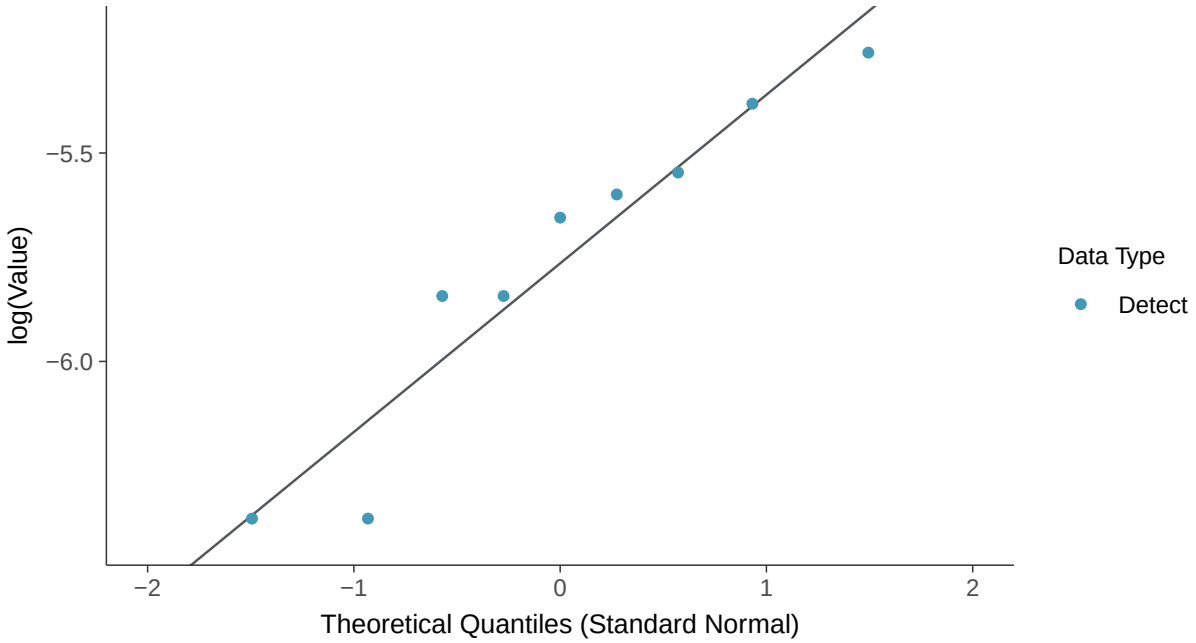
Normal Q-Q plot

Nickel, MW-37 (mg/L)



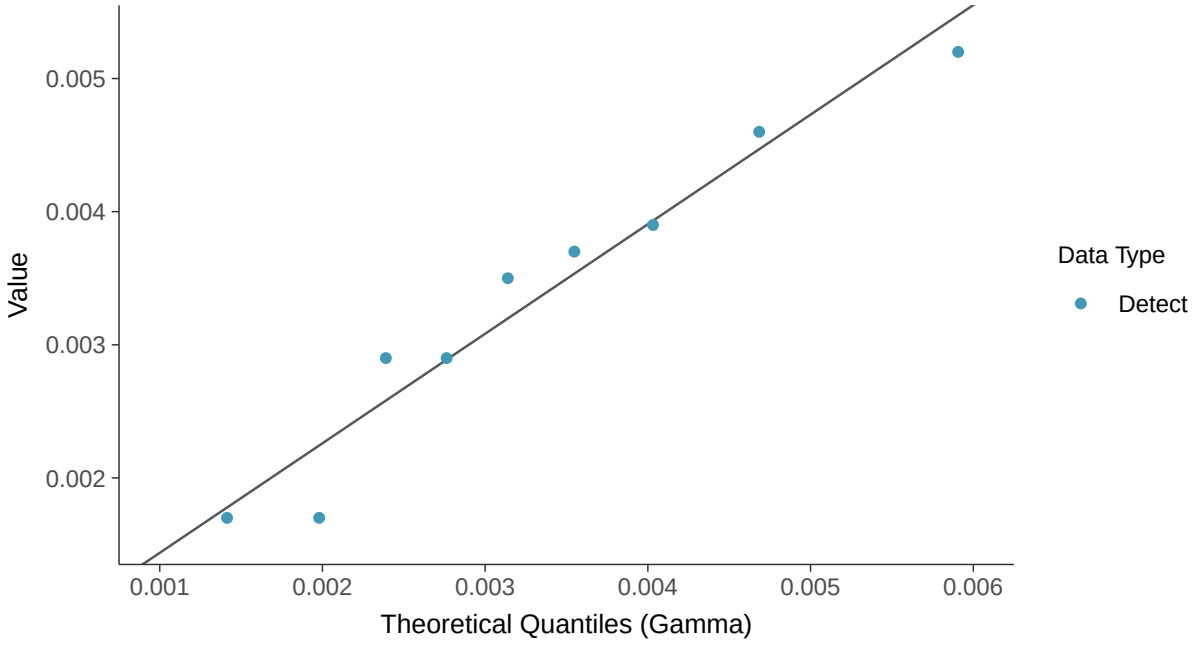
Lognormal Q-Q plot

Nickel, MW-37 (mg/L)



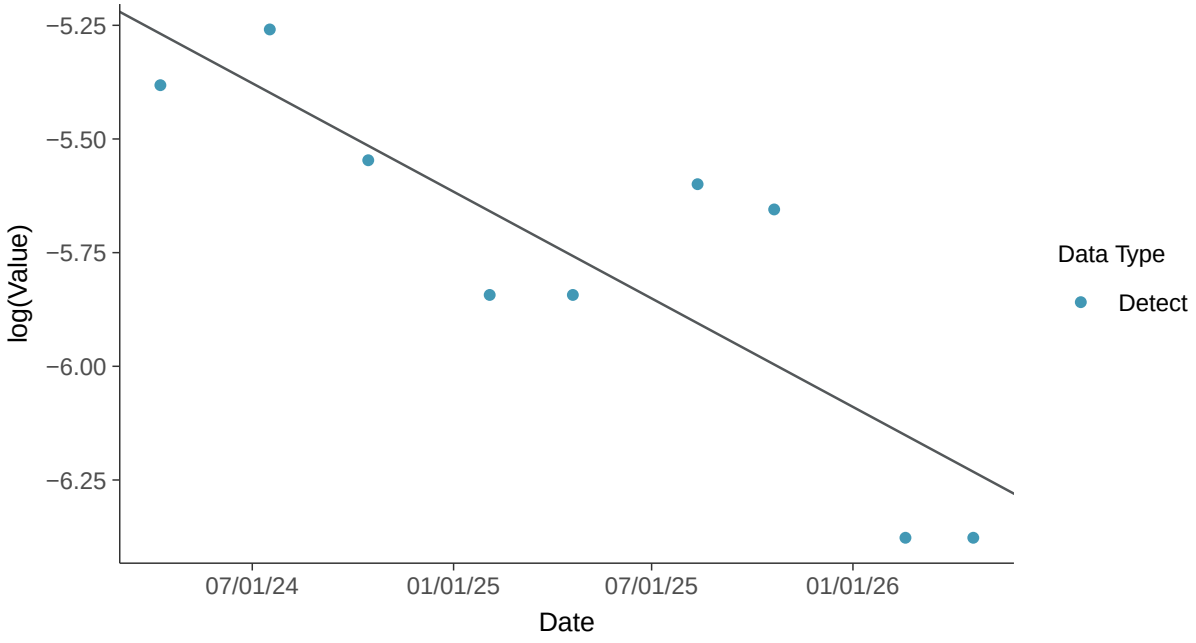
Gamma Q-Q plot

Nickel, MW-37 (mg/L)



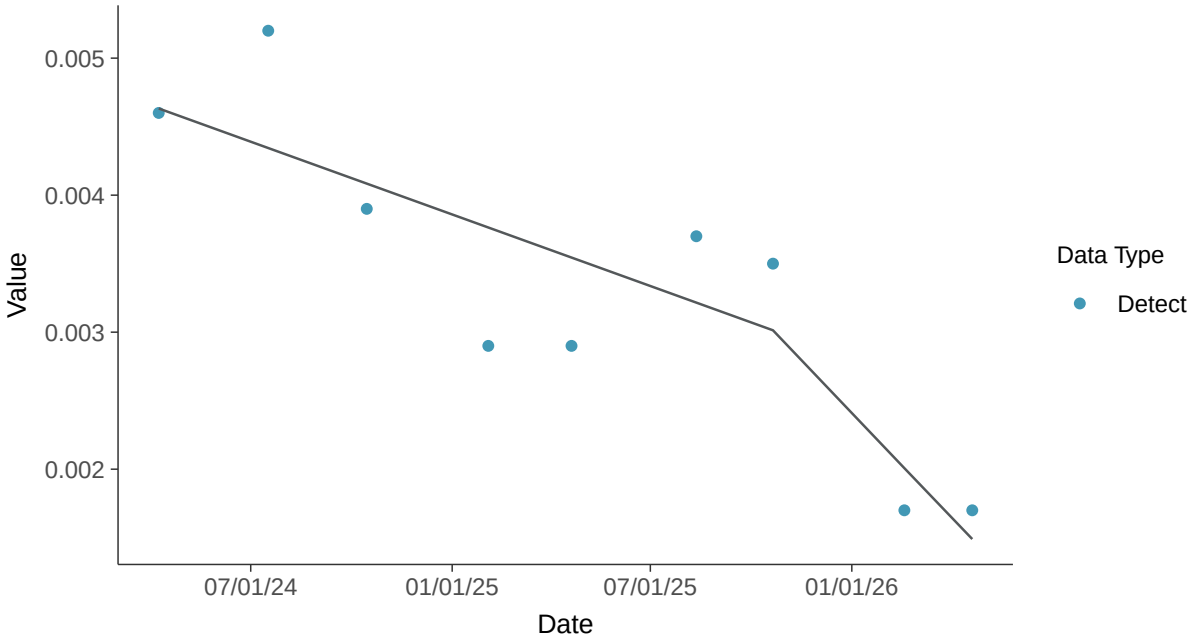
Trend Regression: Lognormal MLE

Nickel, MW-37 (mg/L)



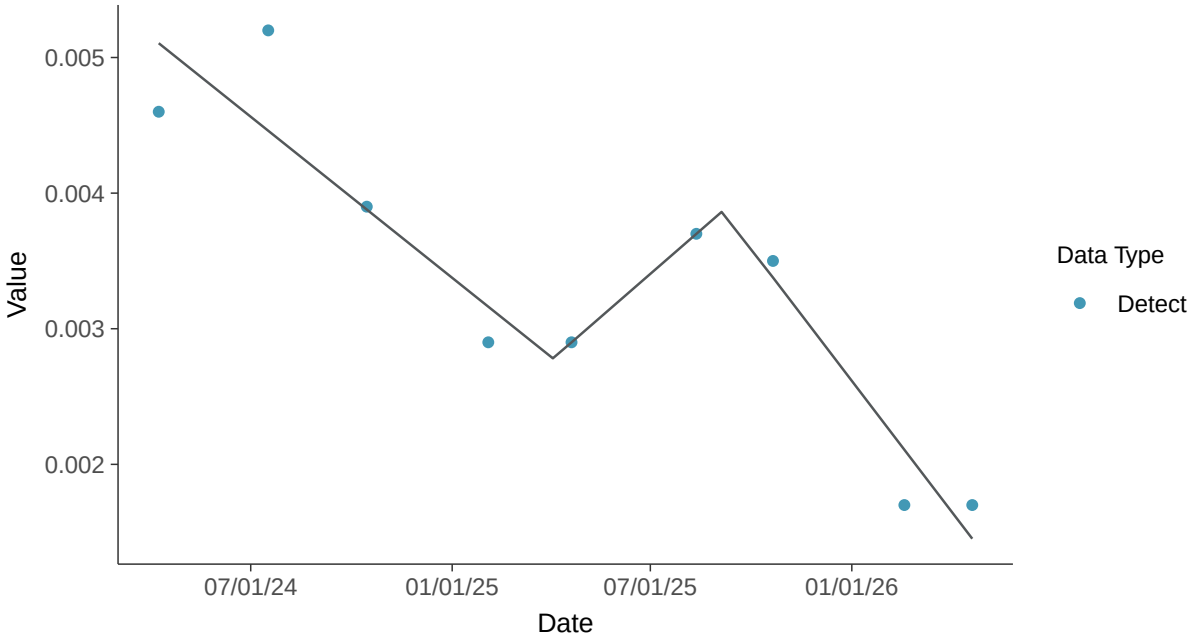
Trend Regression: Piecewise Linear-Linear

Nickel, MW-37 (mg/L)



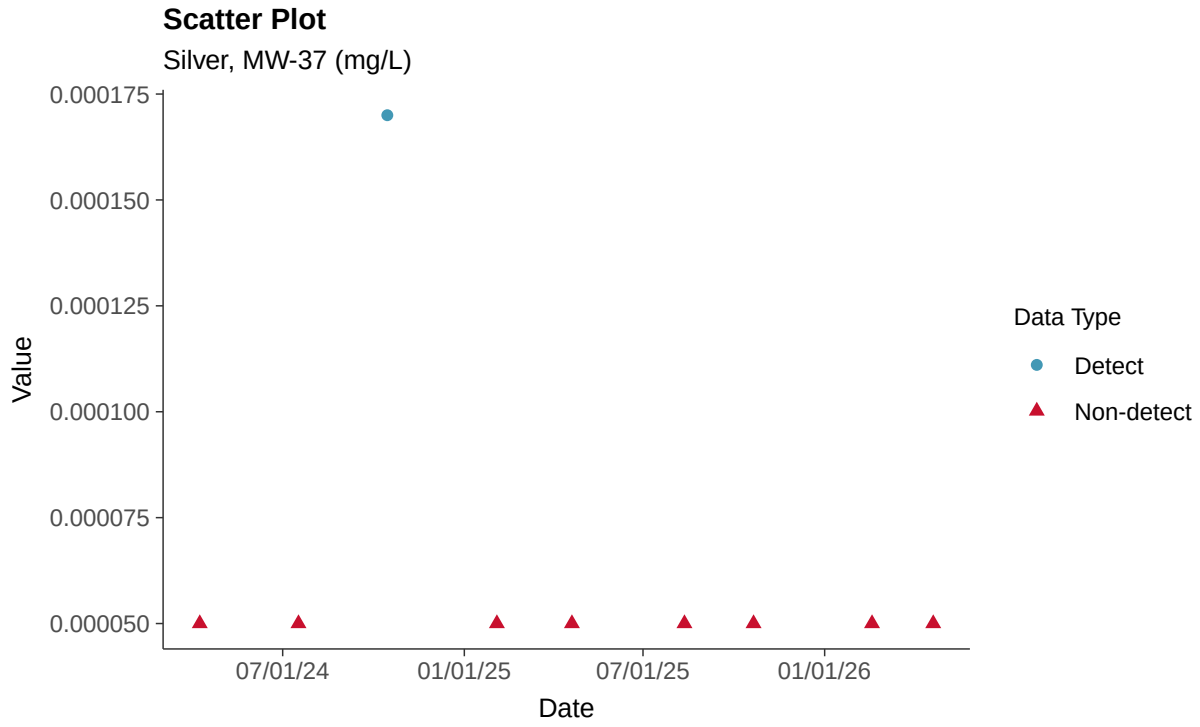
Trend Regression: Piecewise Linear-Linear-Linear

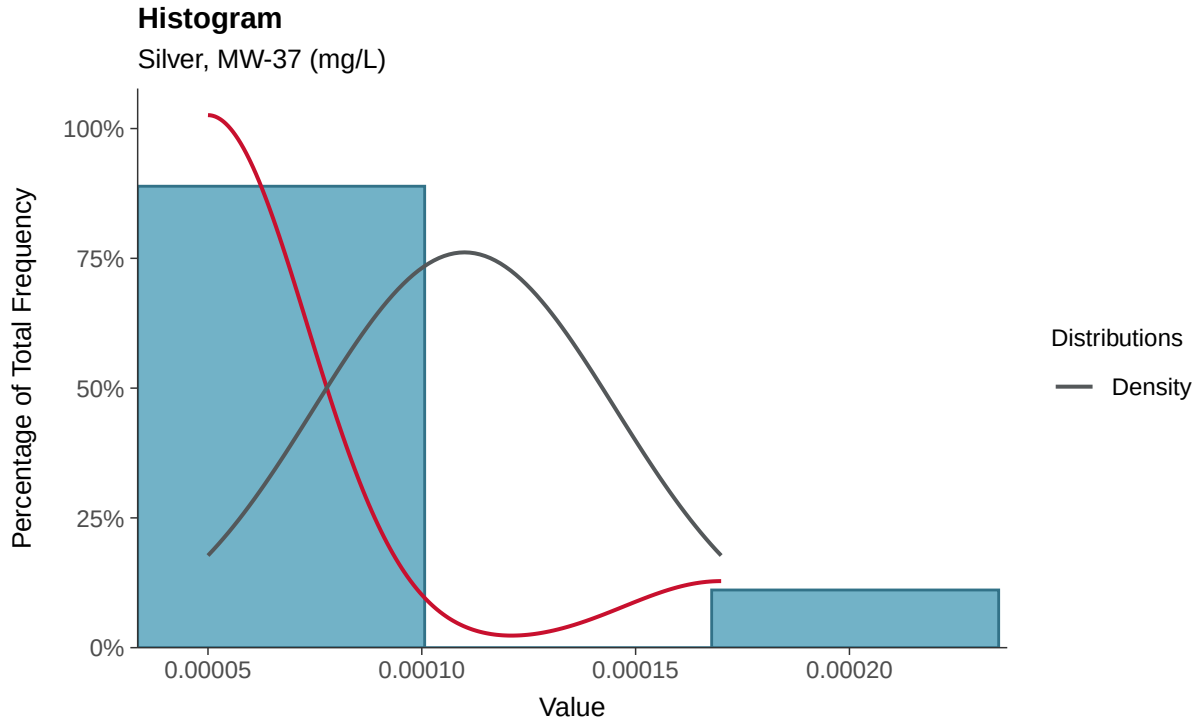
Nickel, MW-37 (mg/L)



Part 115: Silver, MW-37

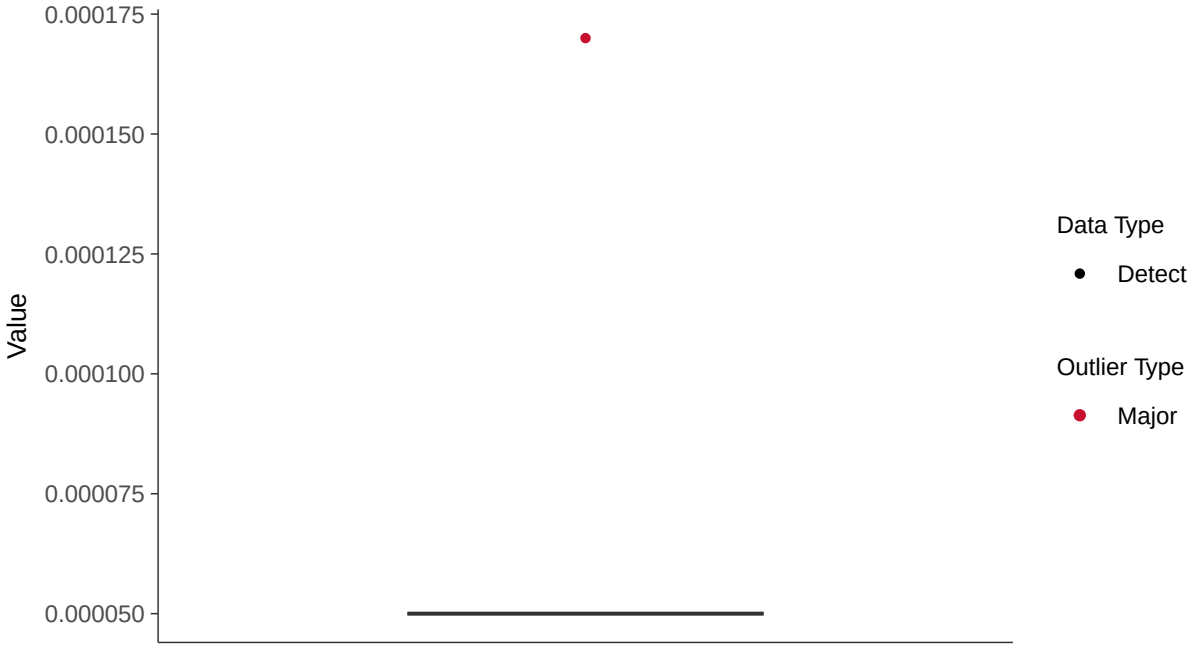
ID: 47_1_5_123





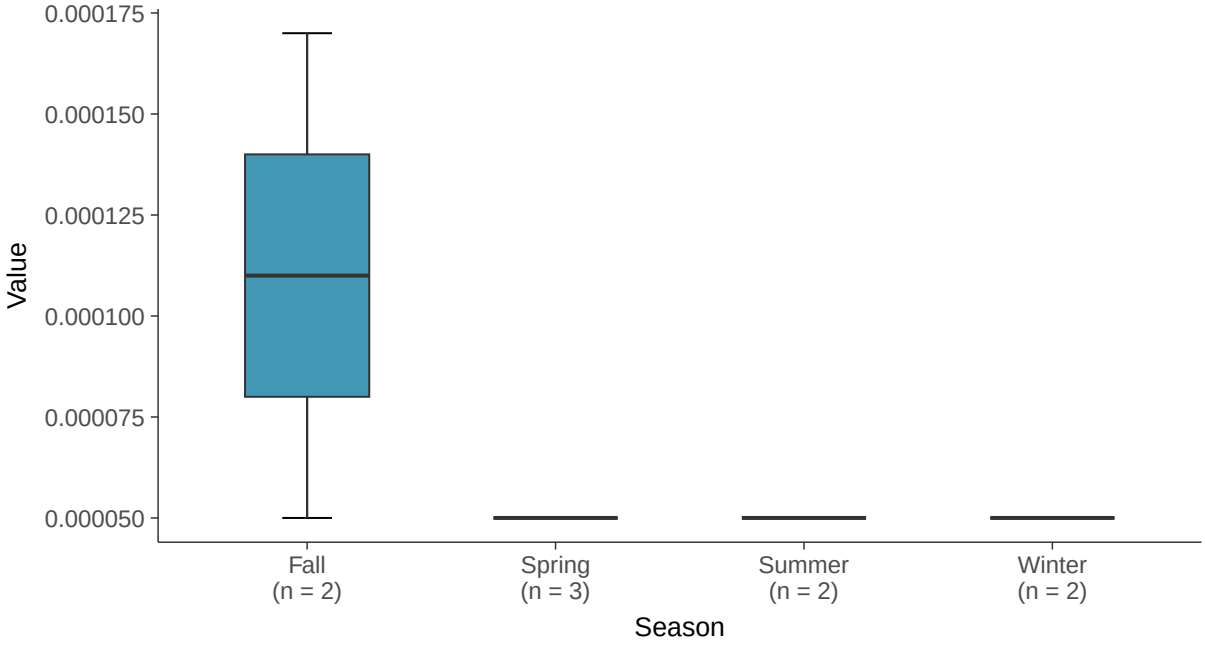
Boxplot

Silver, MW-37 (mg/L)



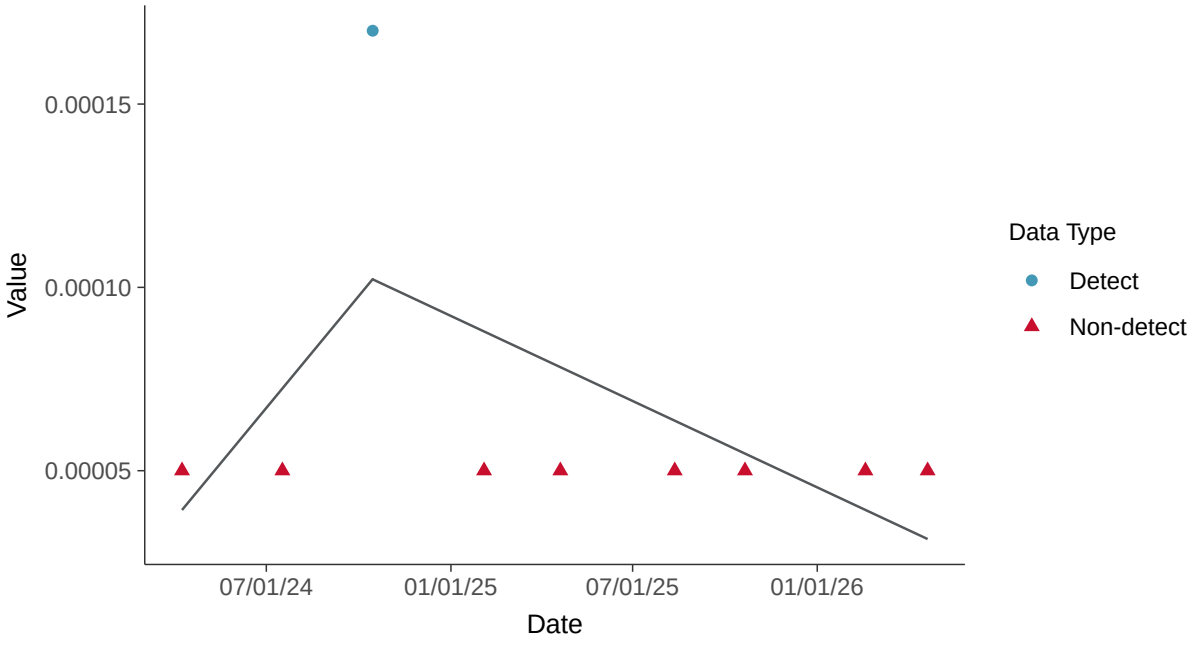
Boxplot by Season

Silver, MW-37 (mg/L)



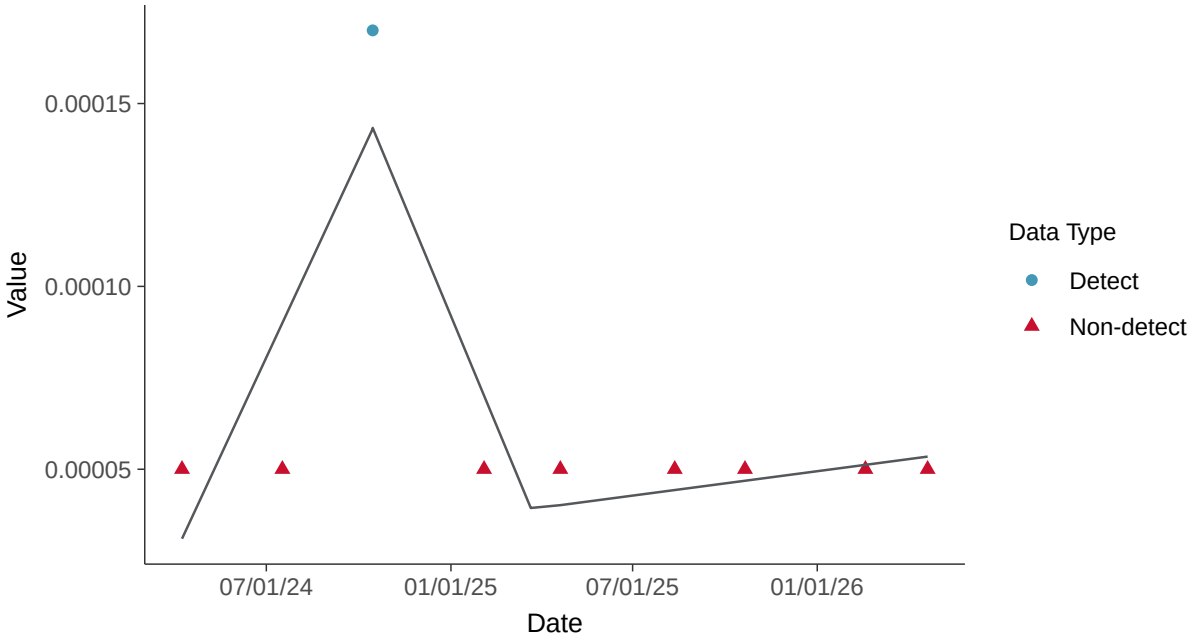
Trend Regression: Piecewise Linear-Linear

Silver, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-37 (mg/L)

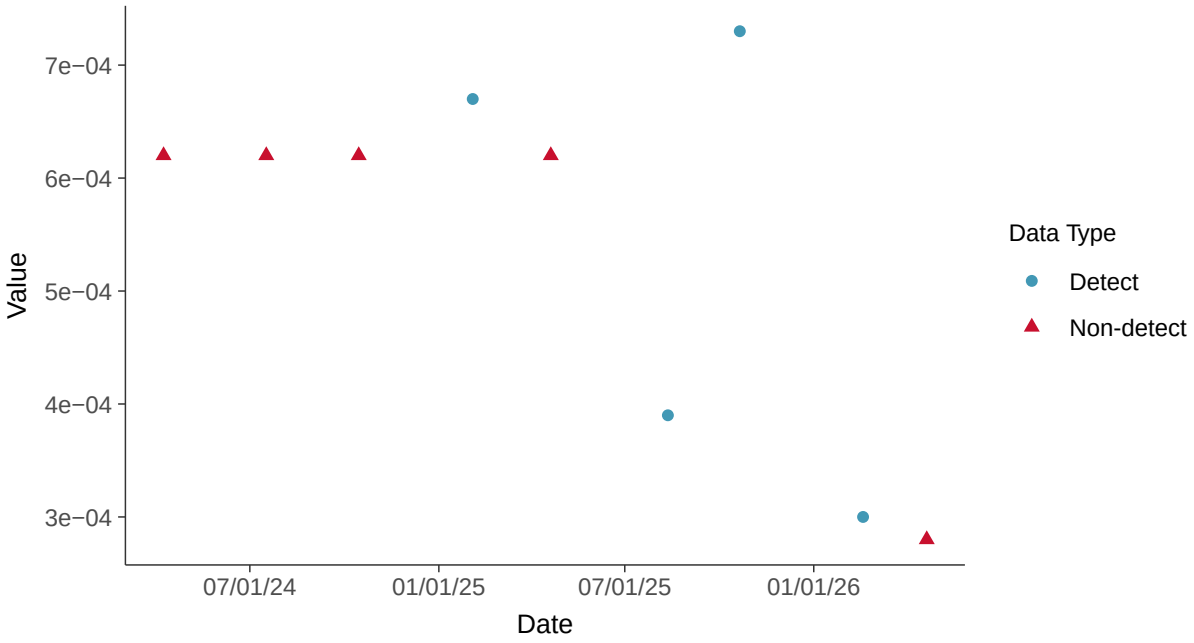


Part 115: Vanadium, MW-37

ID: 47_1_5_128

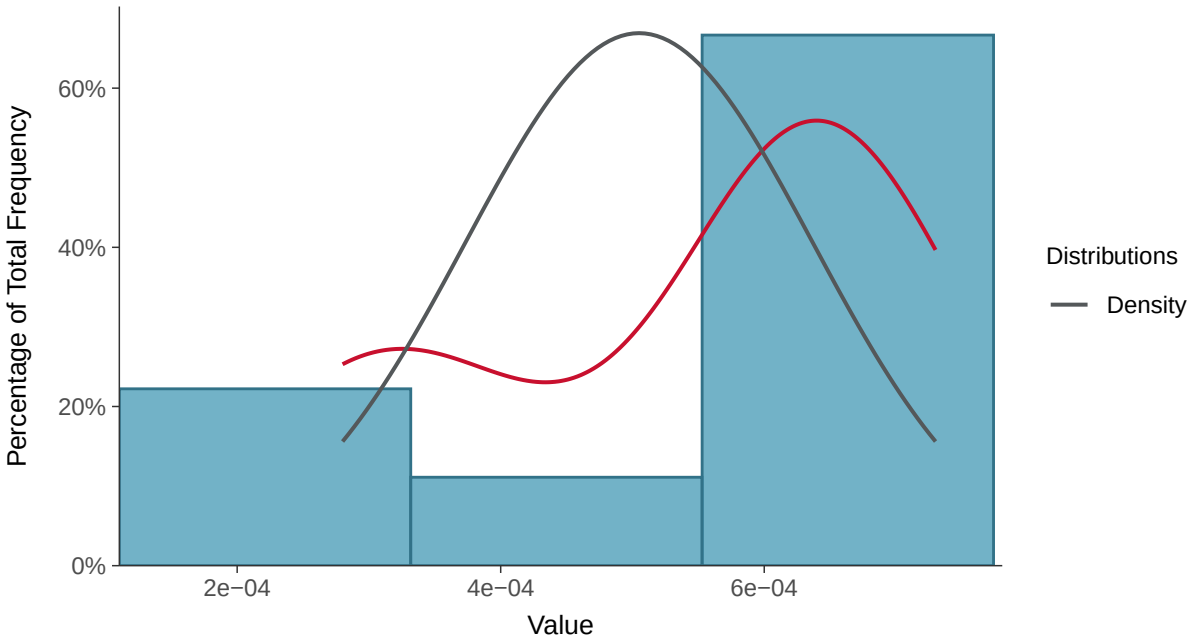
Scatter Plot

Vanadium, MW-37 (mg/L)



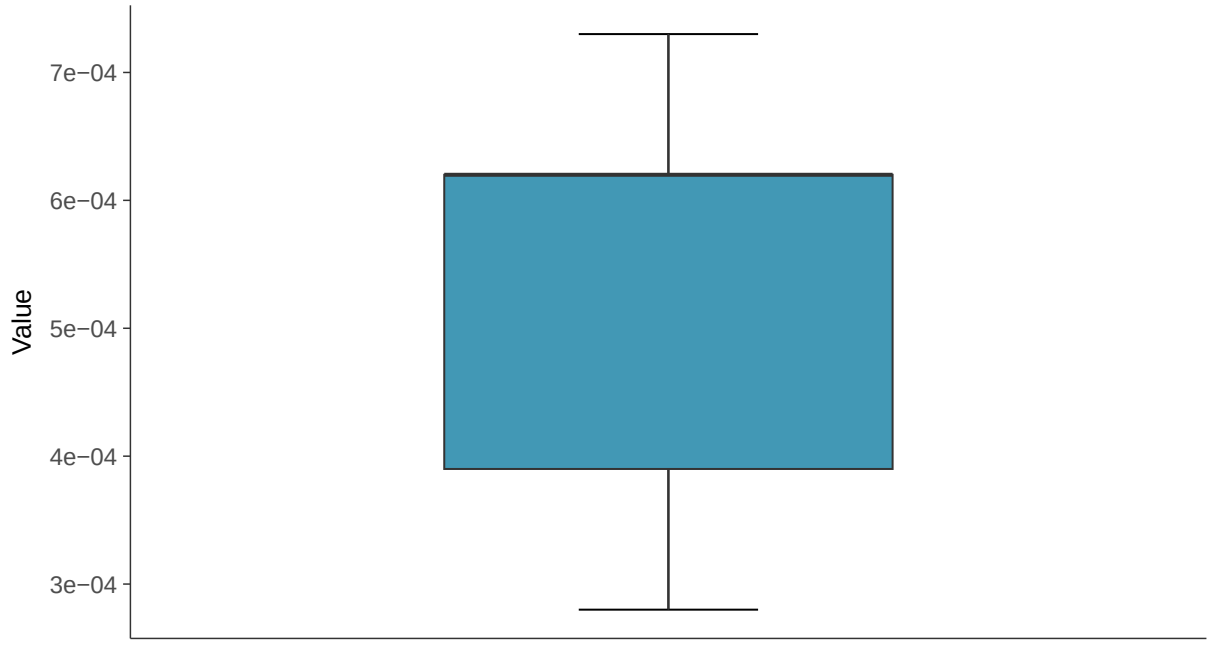
Histogram

Vanadium, MW-37 (mg/L)



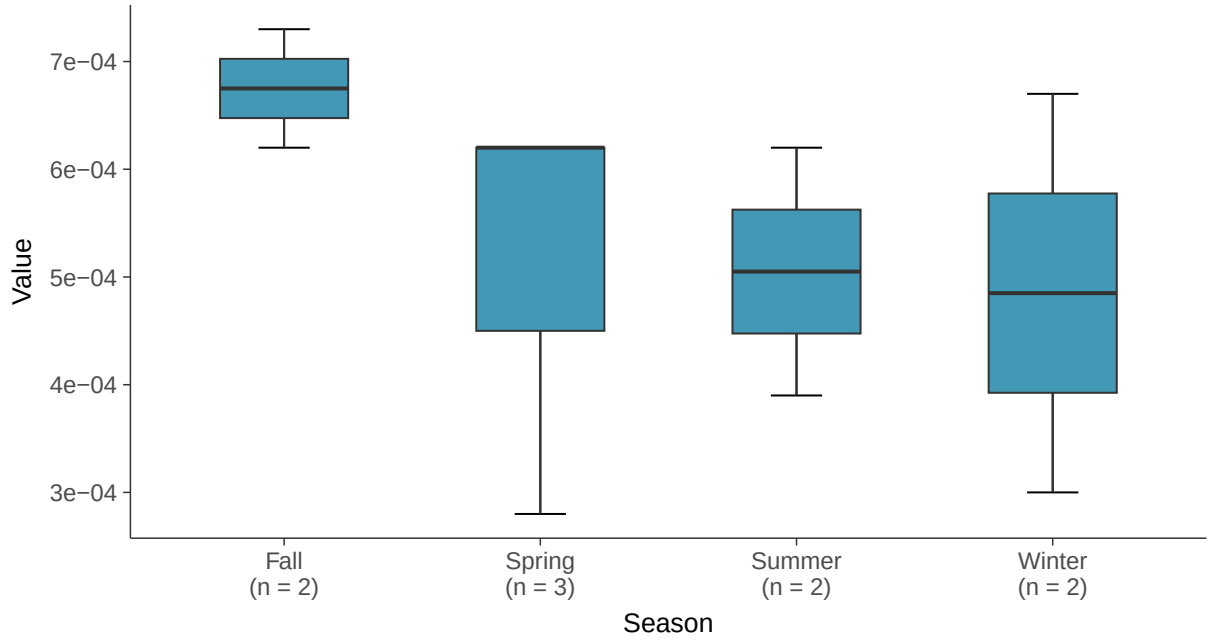
Boxplot

Vanadium, MW-37 (mg/L)



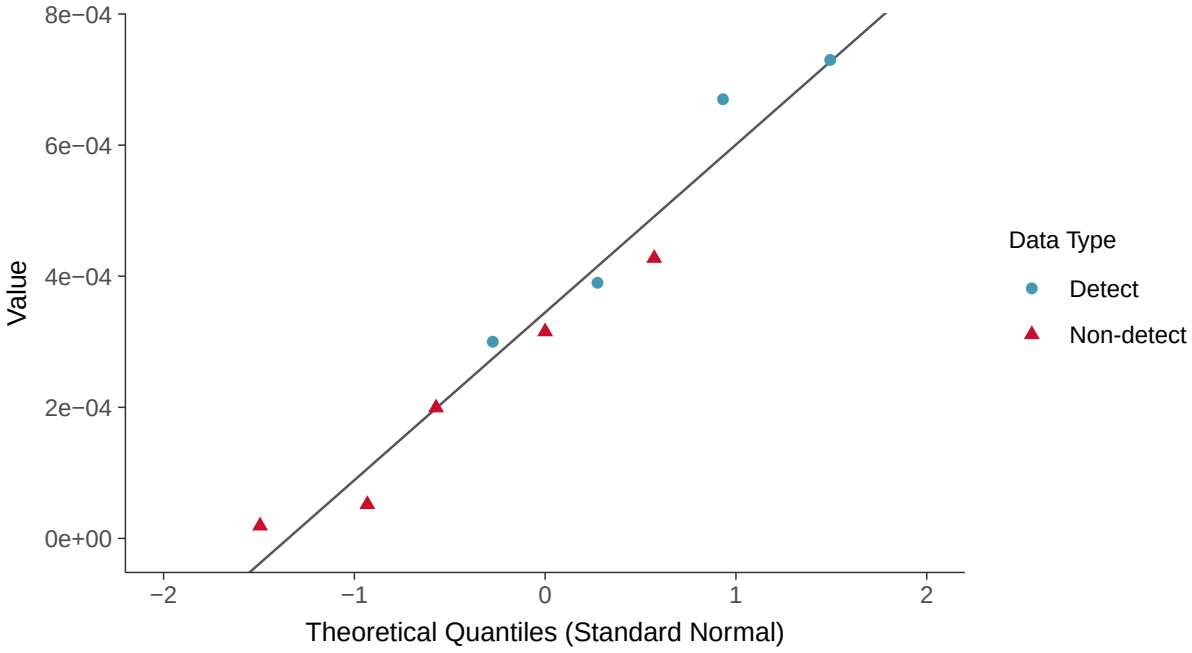
Boxplot by Season

Vanadium, MW-37 (mg/L)



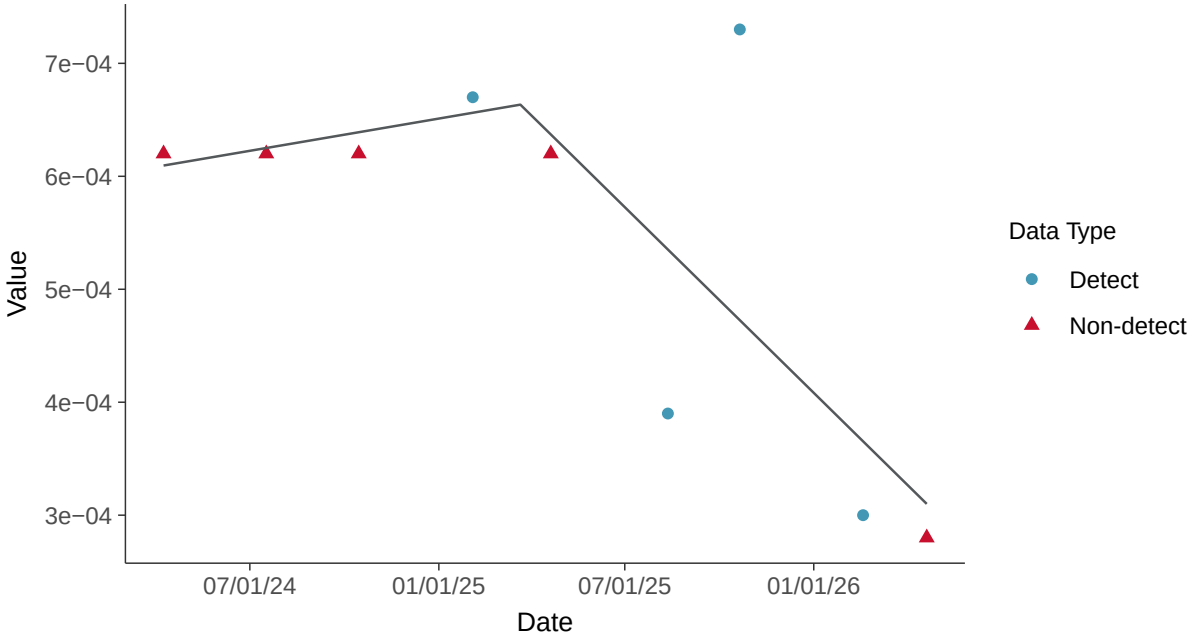
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-37 (mg/L)



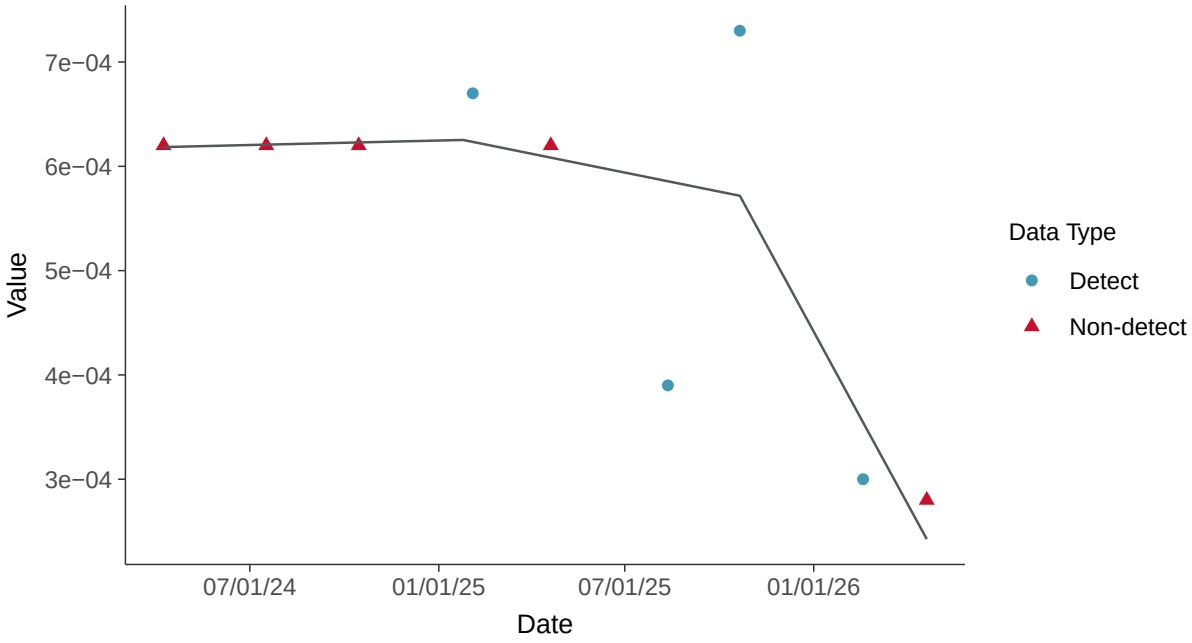
Trend Regression: Piecewise Linear-Linear

Vanadium, MW-37 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Vanadium, MW-37 (mg/L)

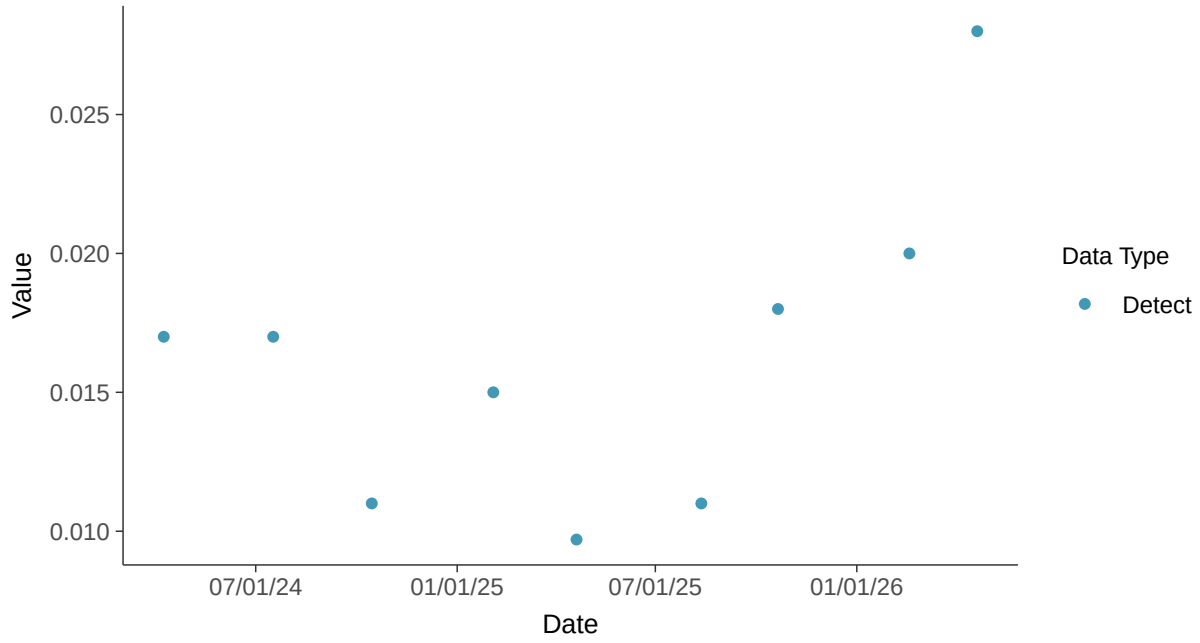


Part 115: Zinc, MW-37

ID: 47_1_5_129

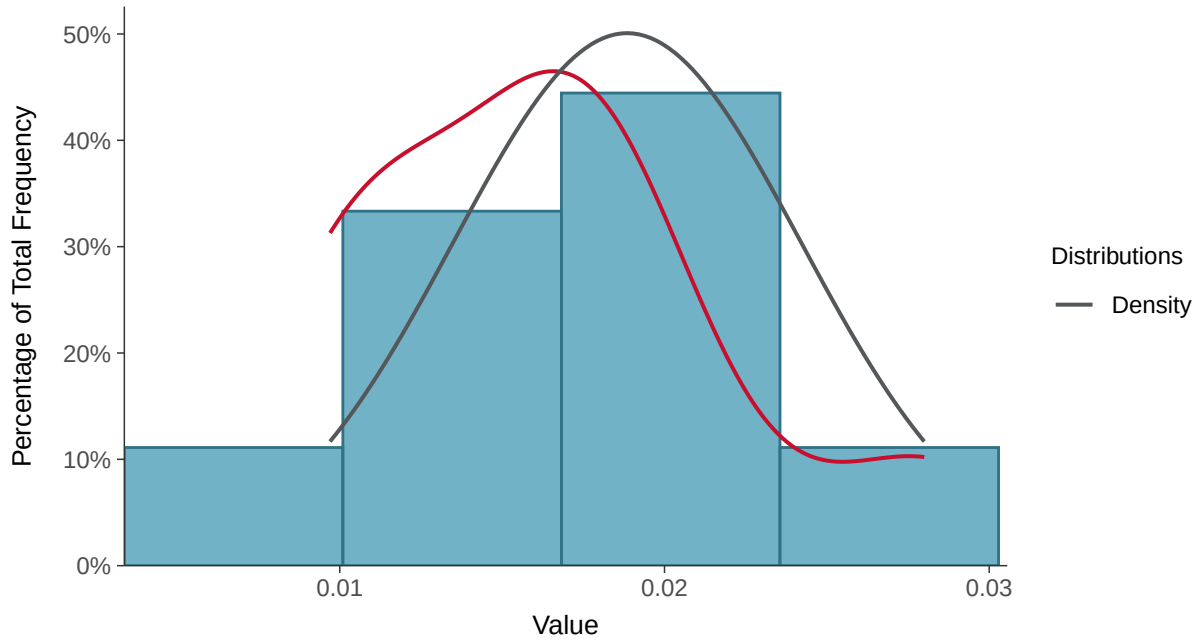
Scatter Plot

Zinc, MW-37 (mg/L)



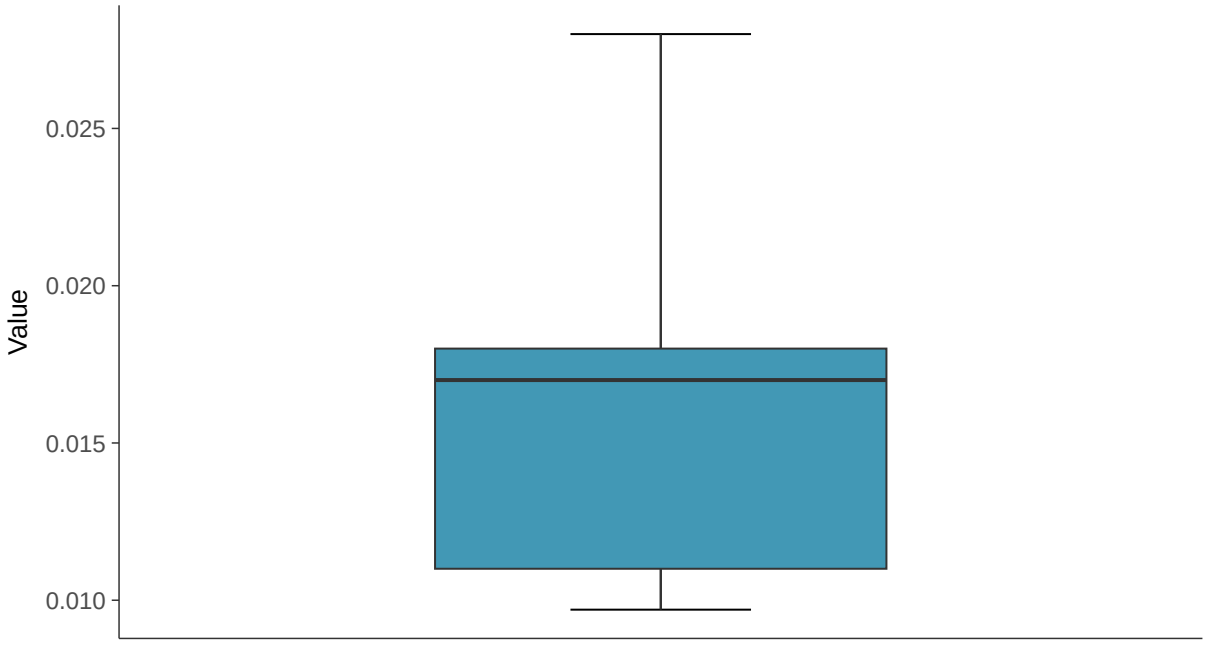
Histogram

Zinc, MW-37 (mg/L)



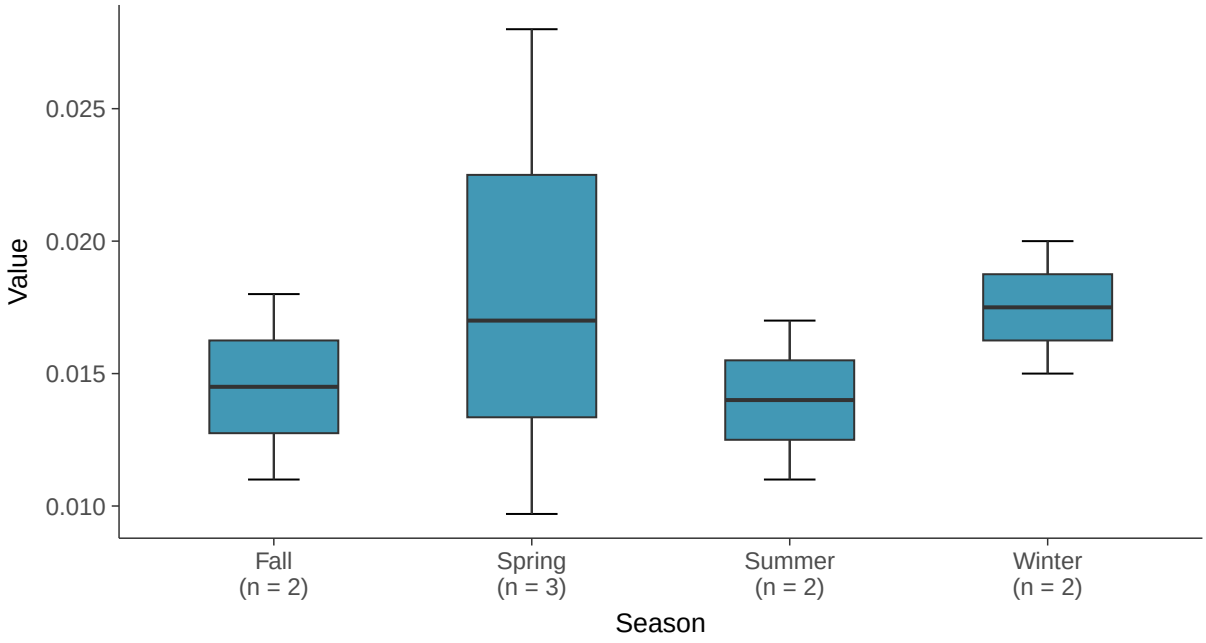
Boxplot

Zinc, MW-37 (mg/L)



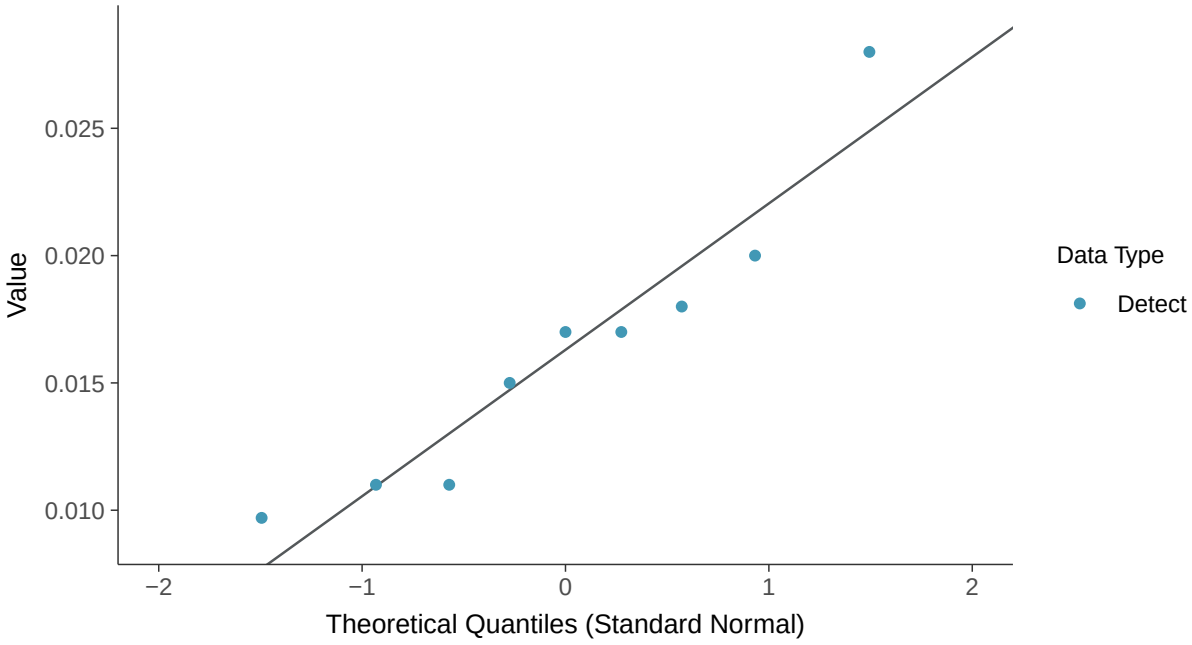
Boxplot by Season

Zinc, MW-37 (mg/L)



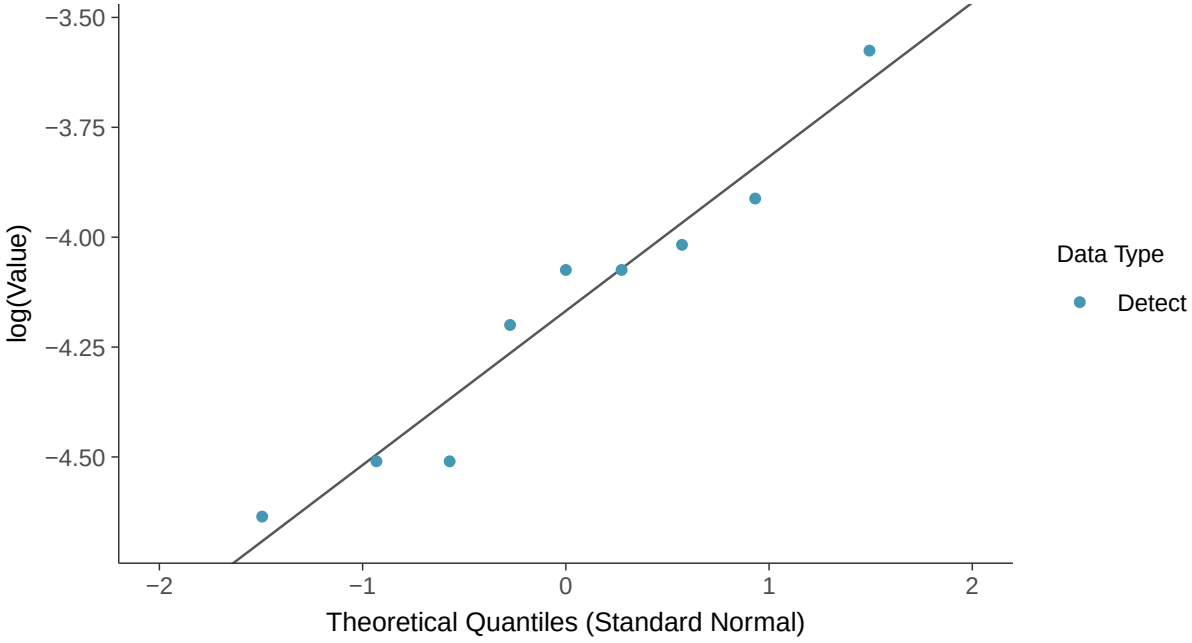
Normal Q-Q plot

Zinc, MW-37 (mg/L)



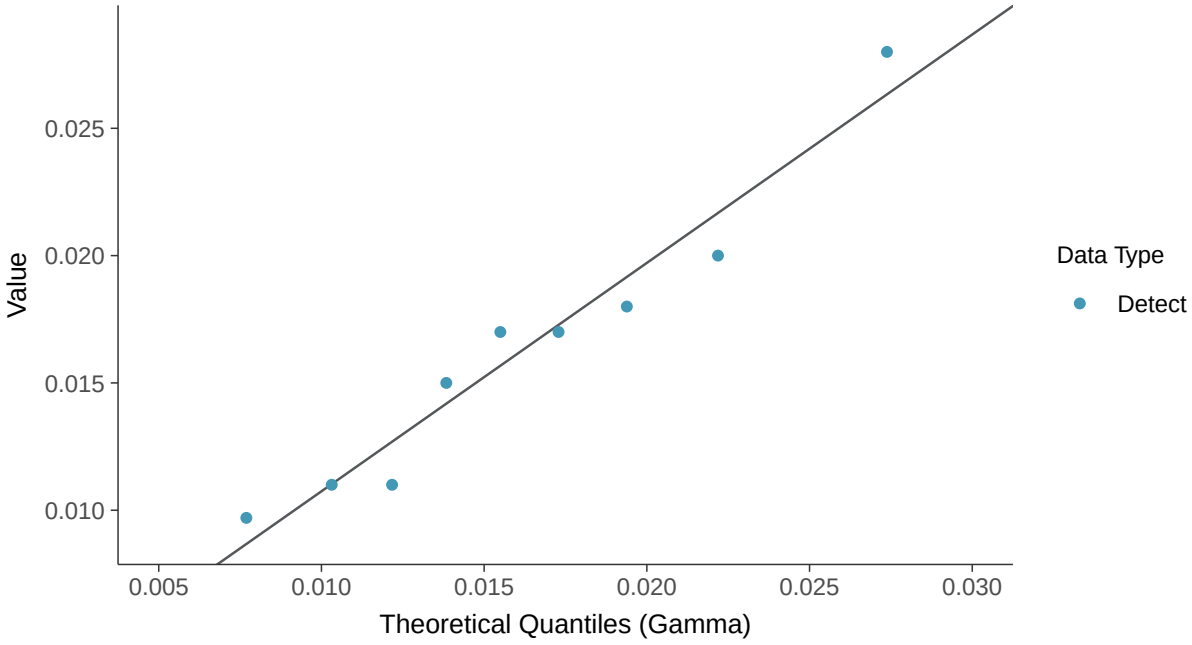
Lognormal Q-Q plot

Zinc, MW-37 (mg/L)



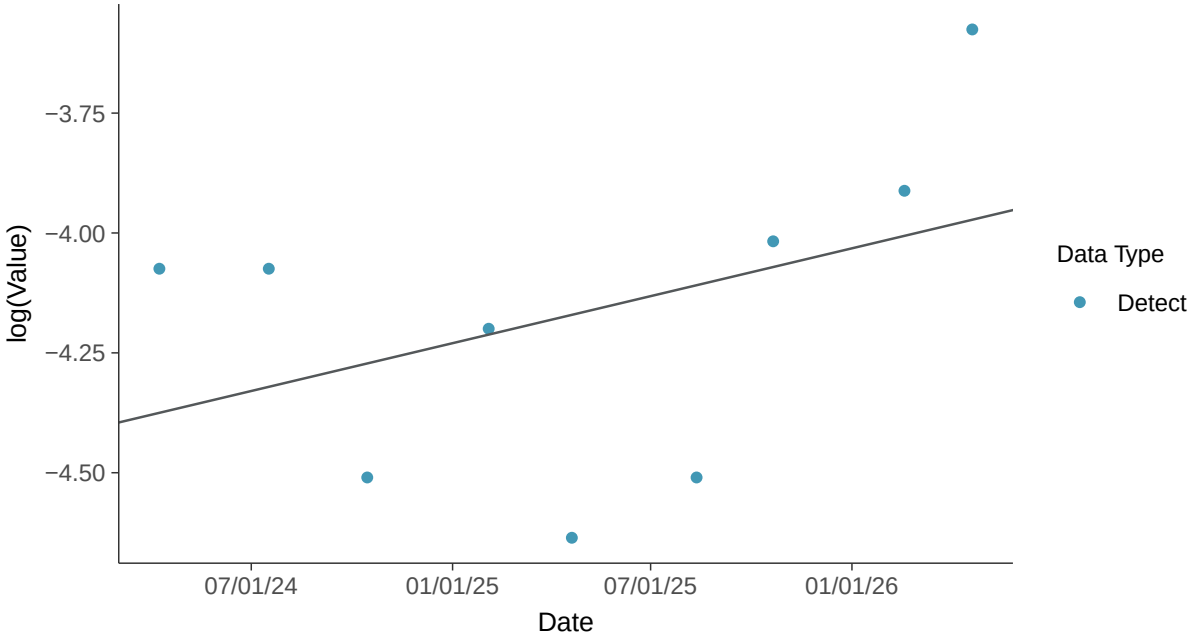
Gamma Q-Q plot

Zinc, MW-37 (mg/L)



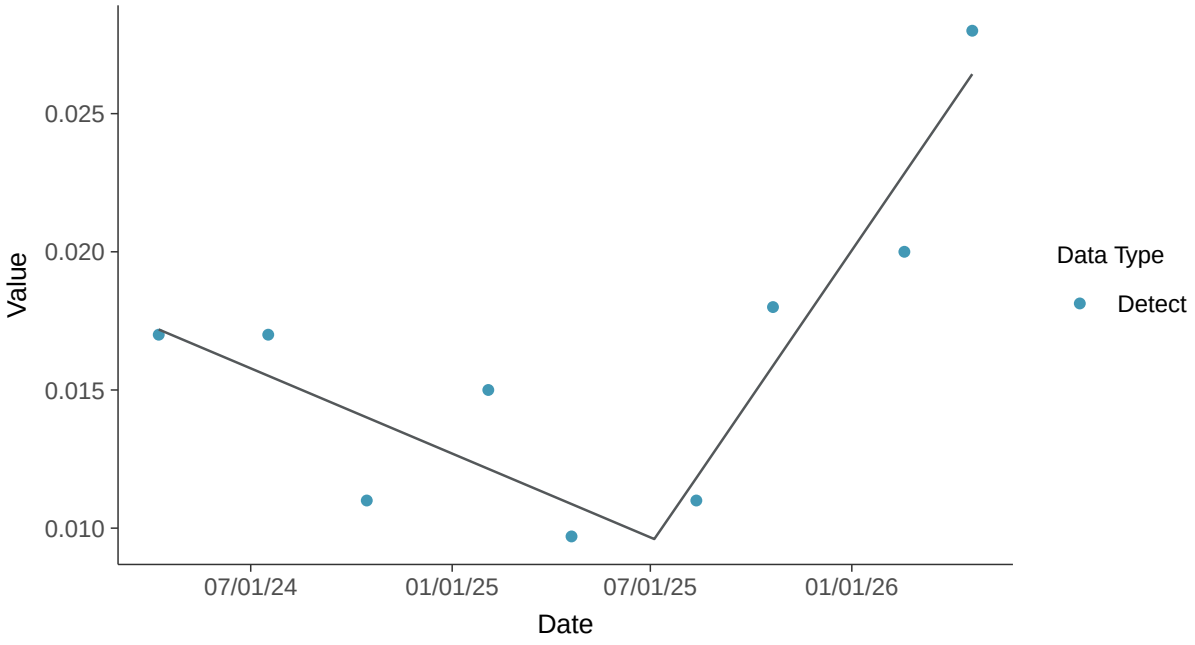
Trend Regression: Lognormal MLE

Zinc, MW-37 (mg/L)



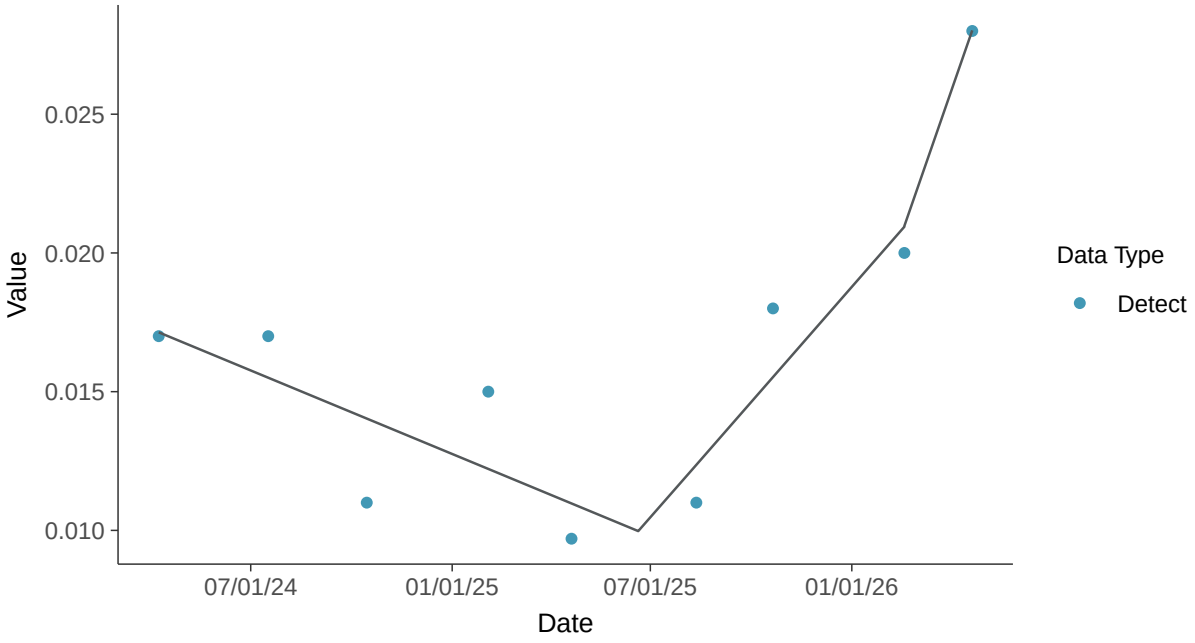
Trend Regression: Piecewise Linear-Linear

Zinc, MW-37 (mg/L)



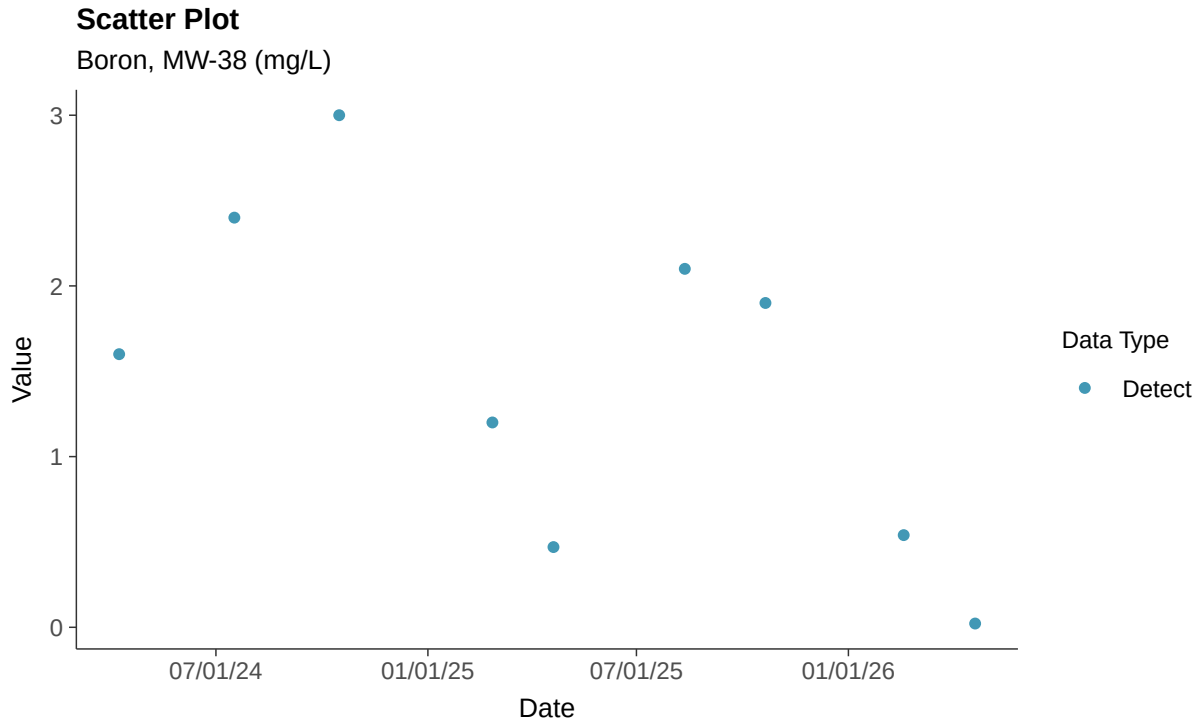
Trend Regression: Piecewise Linear-Linear-Linear

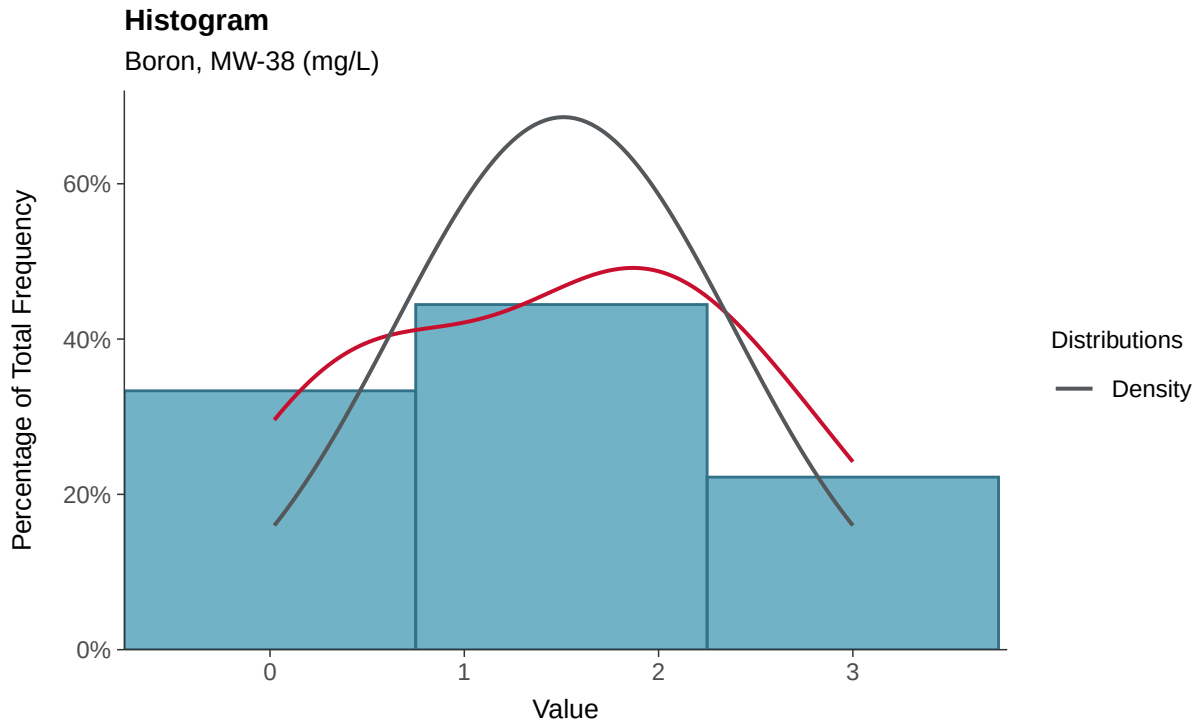
Zinc, MW-37 (mg/L)



Appendix III: Boron, MW-38

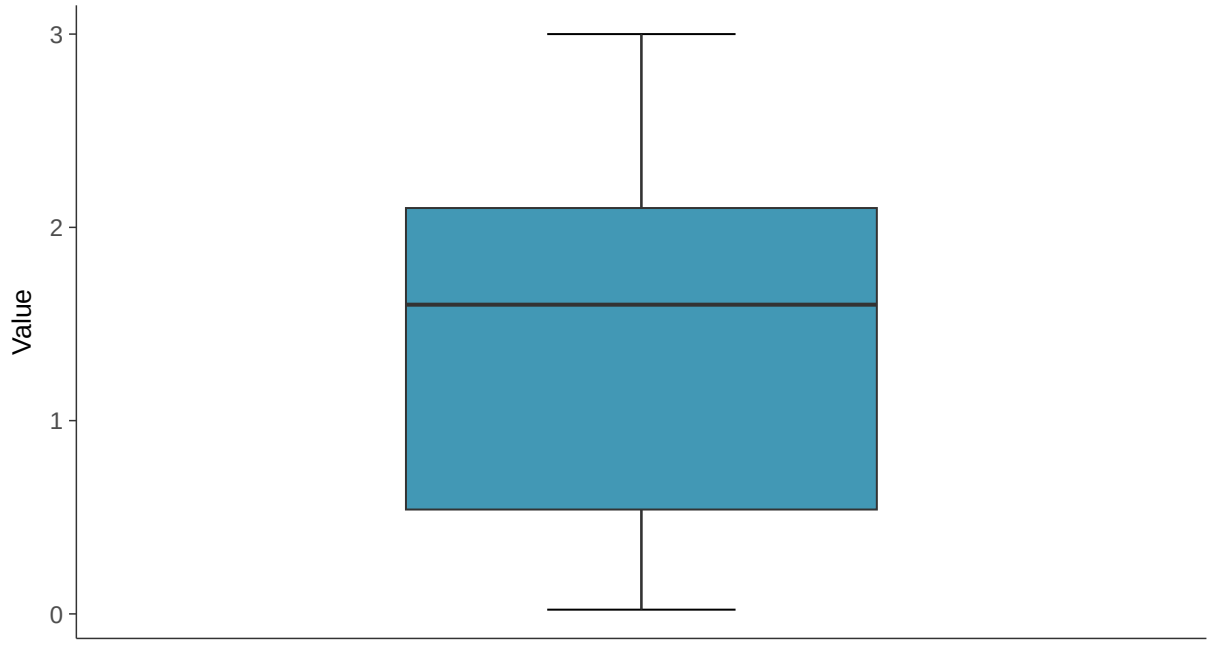
ID: 48_2_3_105





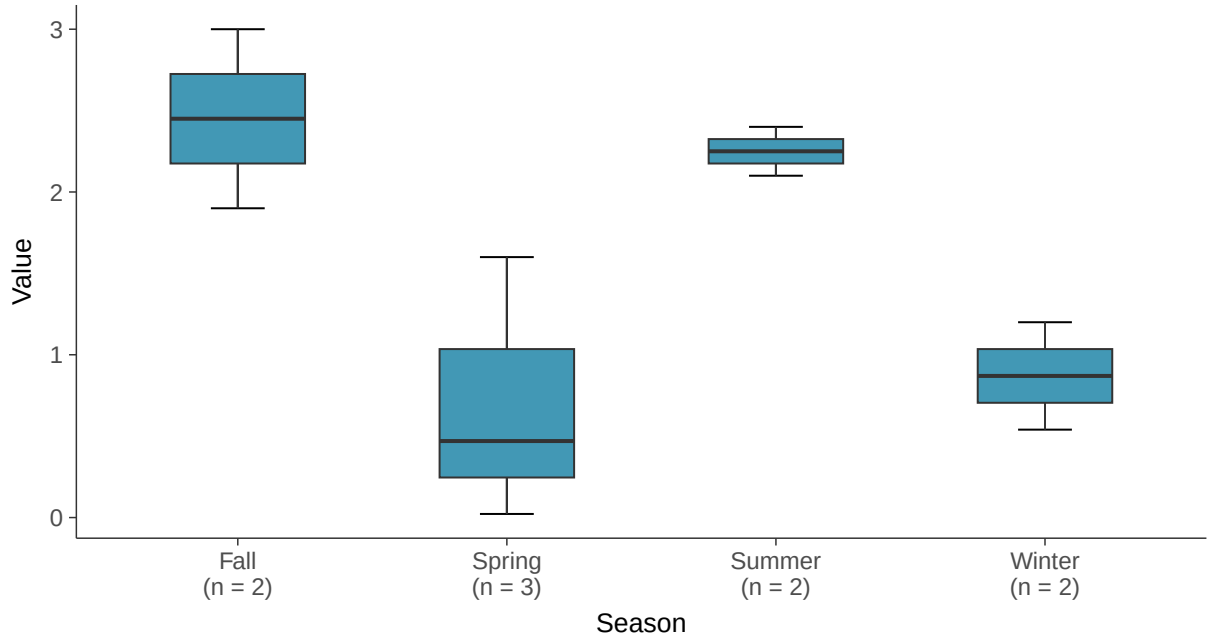
Boxplot

Boron, MW-38 (mg/L)



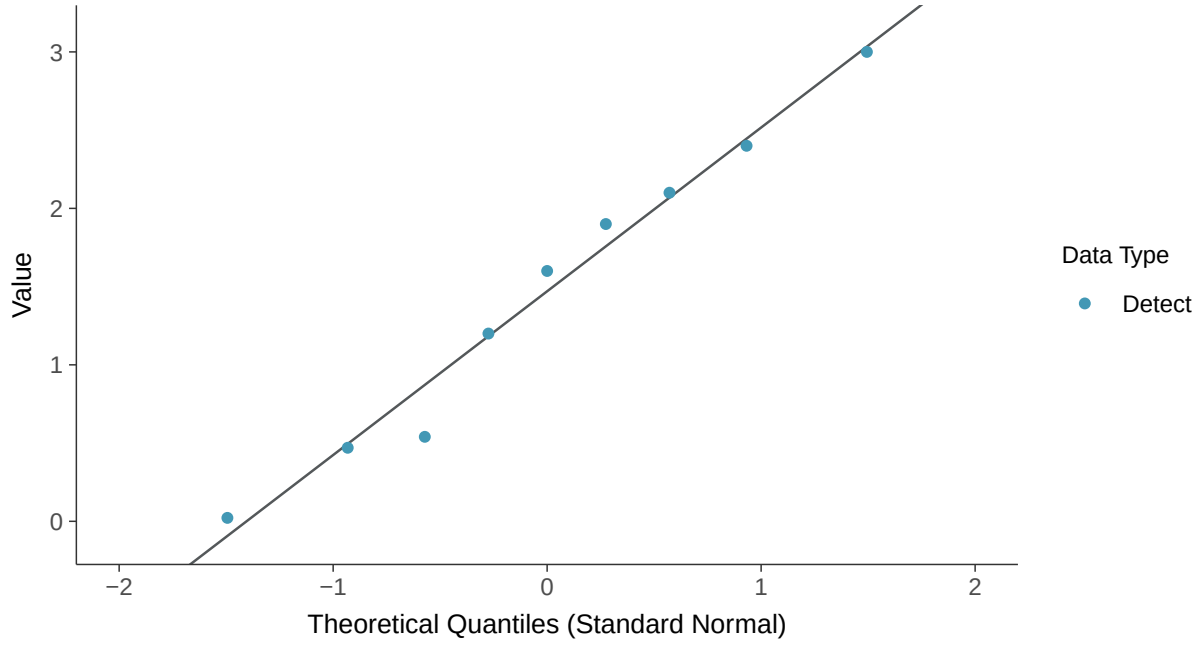
Boxplot by Season

Boron, MW-38 (mg/L)



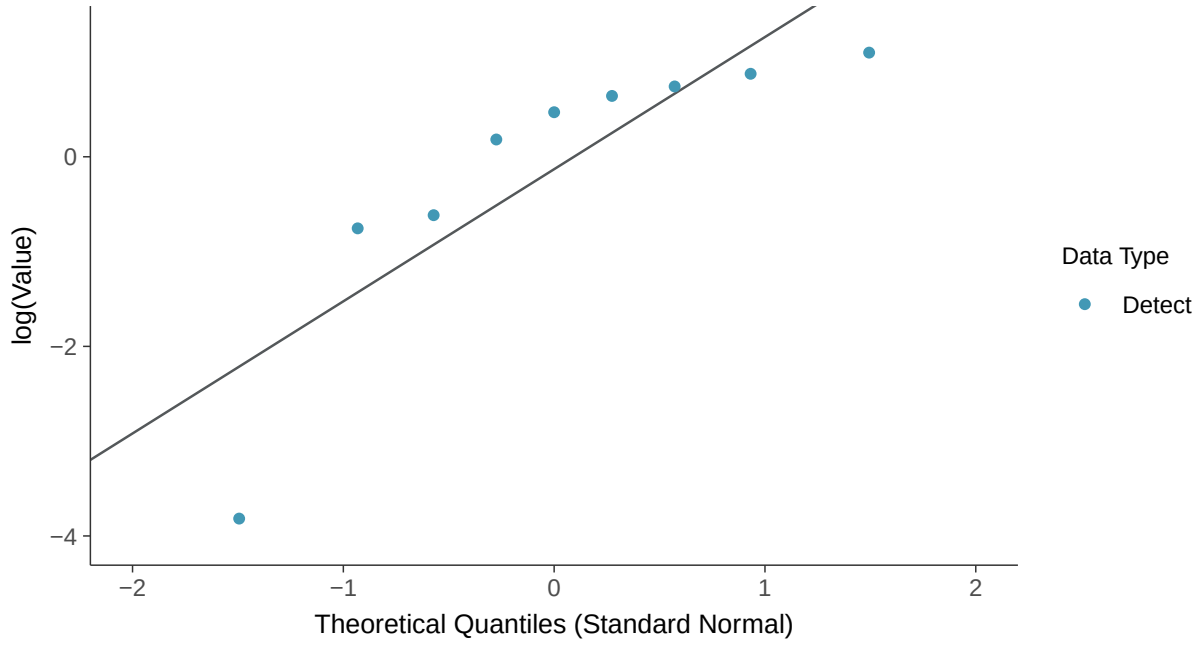
Normal Q-Q plot

Boron, MW-38 (mg/L)



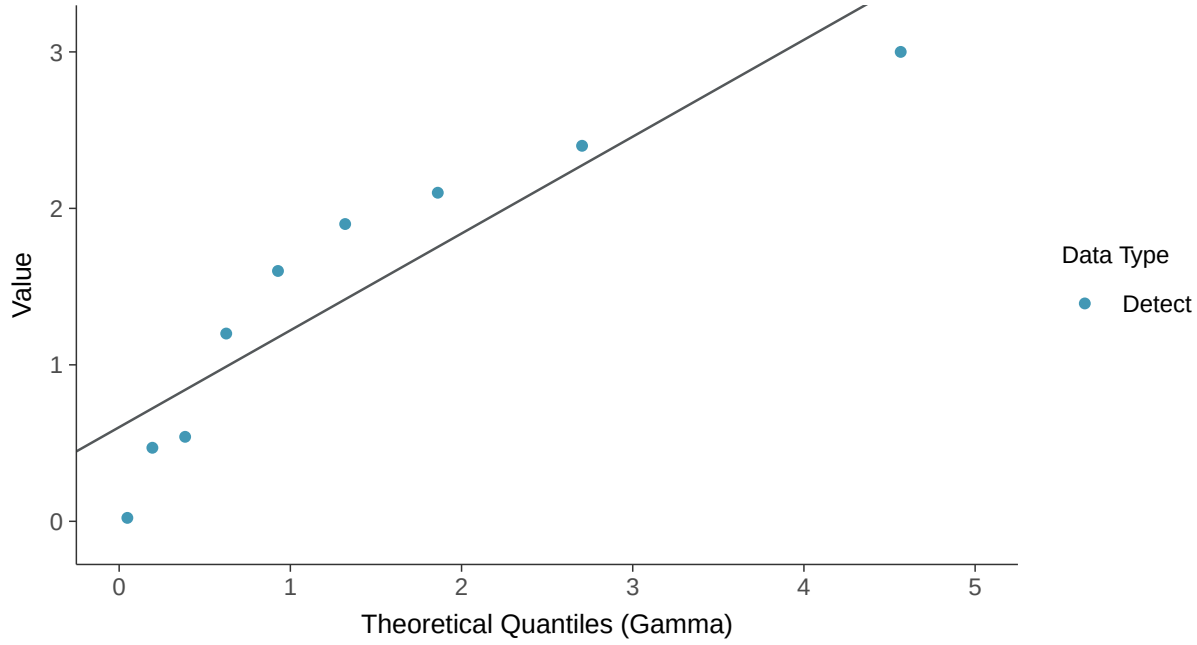
Lognormal Q-Q plot

Boron, MW-38 (mg/L)



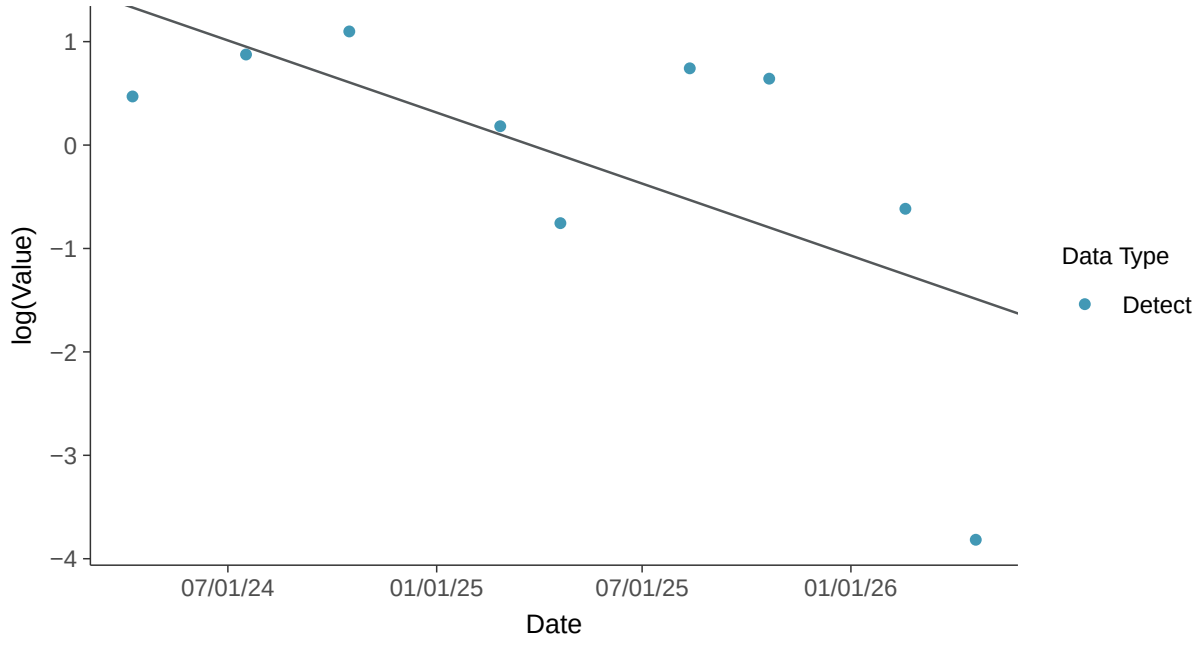
Gamma Q-Q plot

Boron, MW-38 (mg/L)



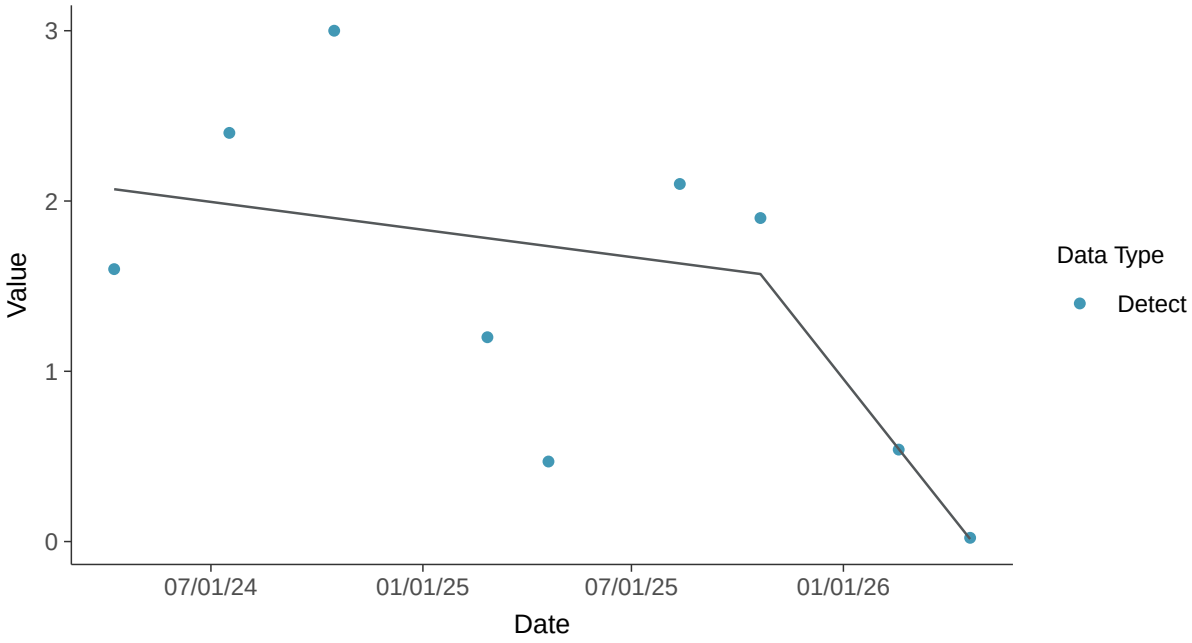
Trend Regression: Lognormal MLE

Boron, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear

Boron, MW-38 (mg/L)

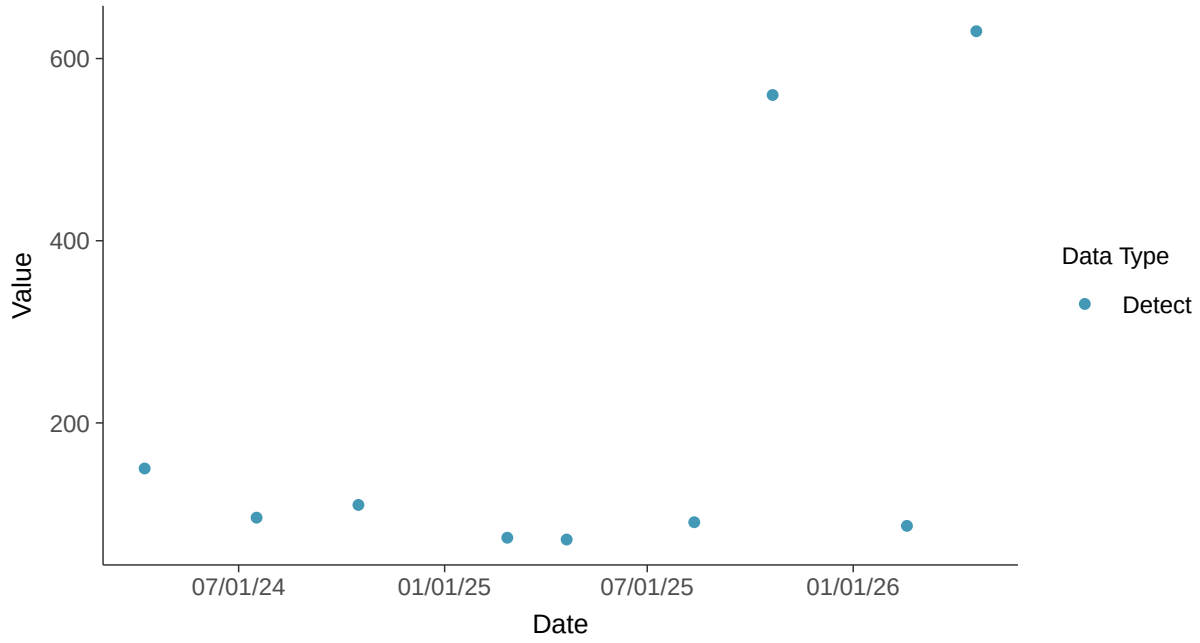


Appendix III: Calcium, MW-38

ID: 48_2_3_107

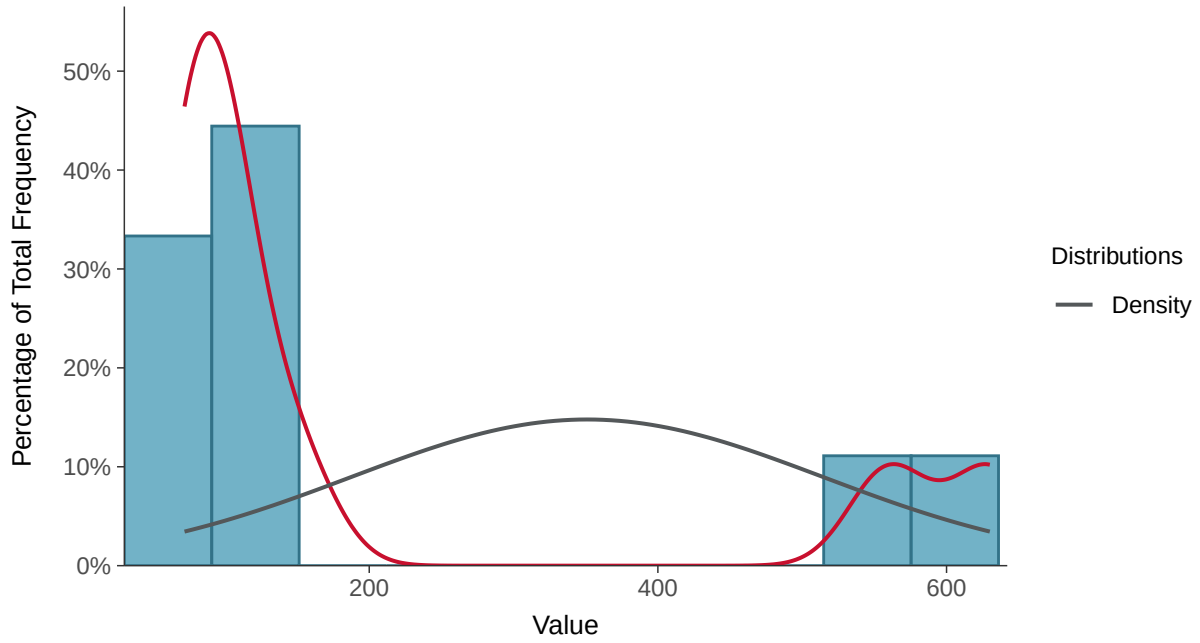
Scatter Plot

Calcium, MW-38 (mg/L)



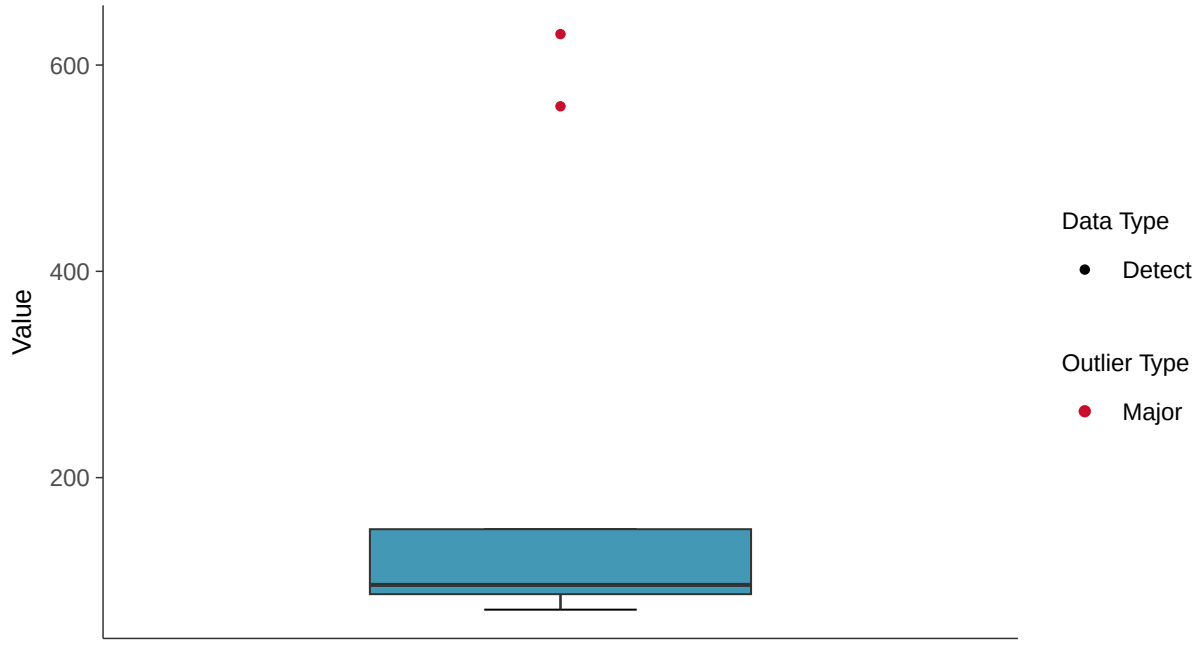
Histogram

Calcium, MW-38 (mg/L)



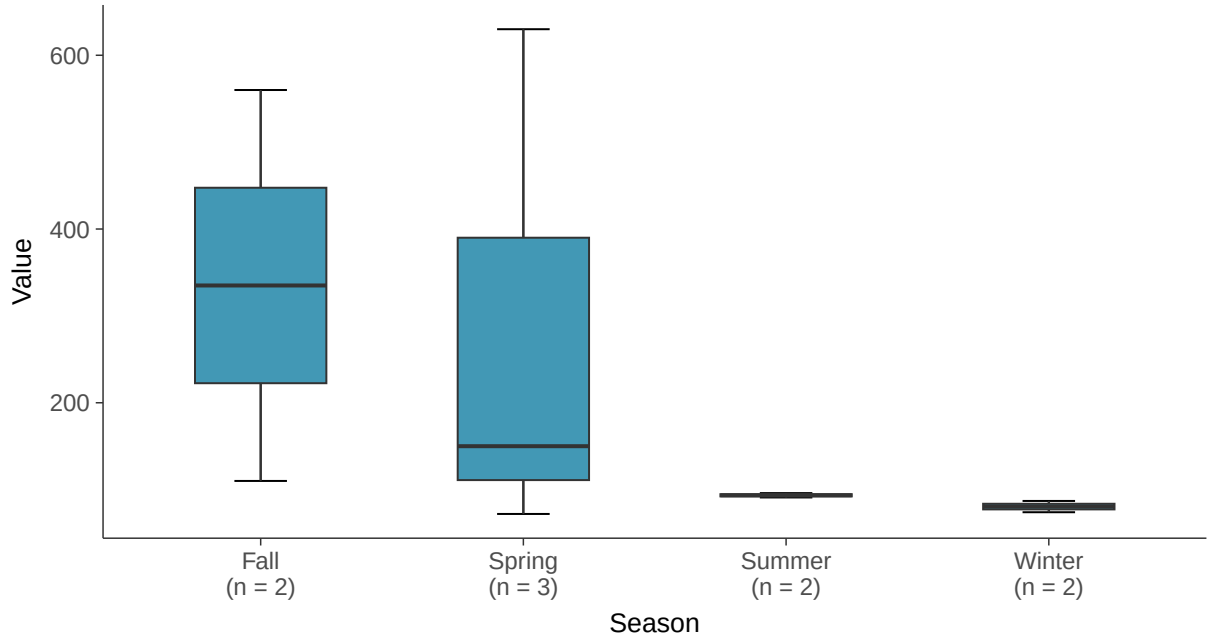
Boxplot

Calcium, MW-38 (mg/L)



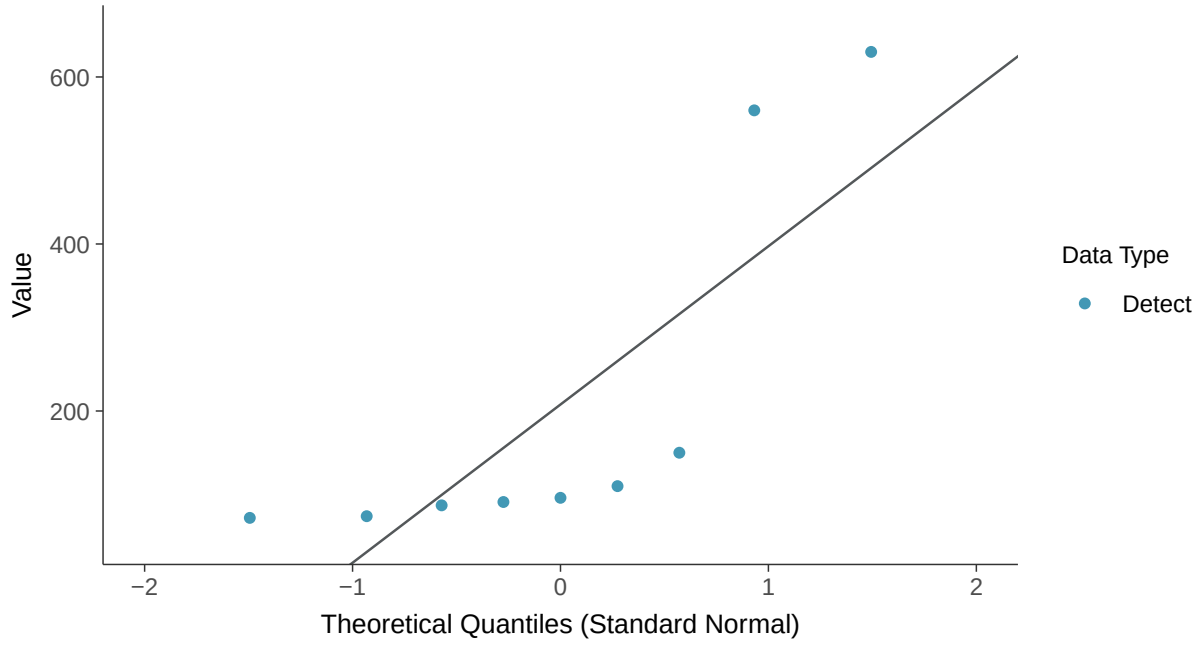
Boxplot by Season

Calcium, MW-38 (mg/L)



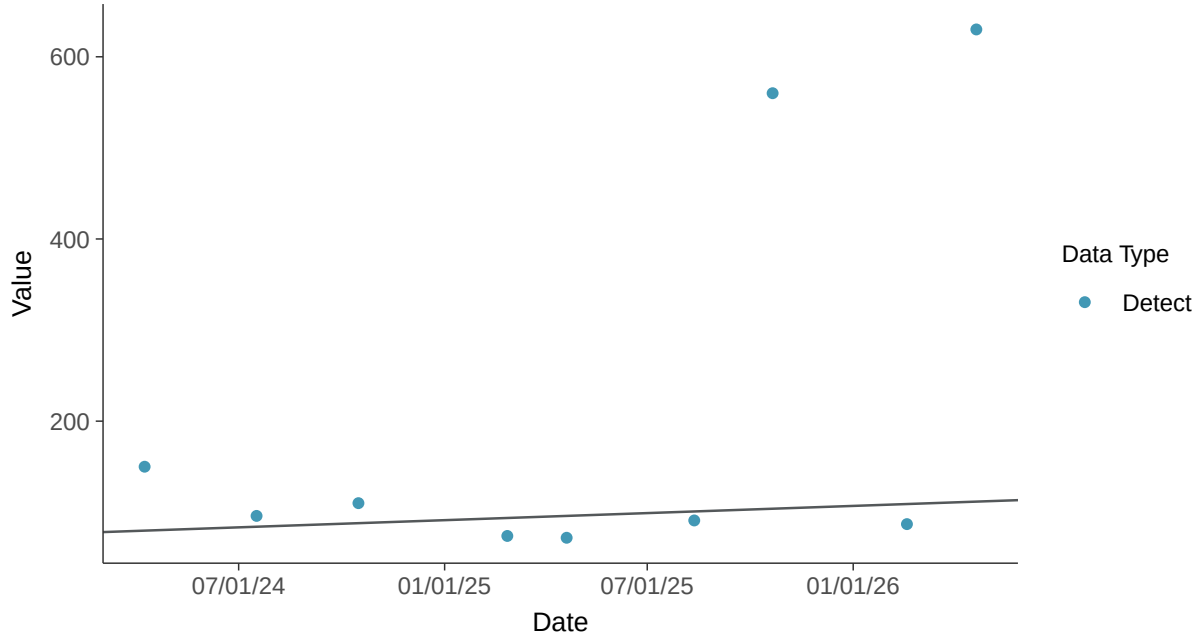
Normal Q-Q plot

Calcium, MW-38 (mg/L)



Trend Regression: Mann-Kendall/Theil-Sen Estimate

Calcium, MW-38 (mg/L)

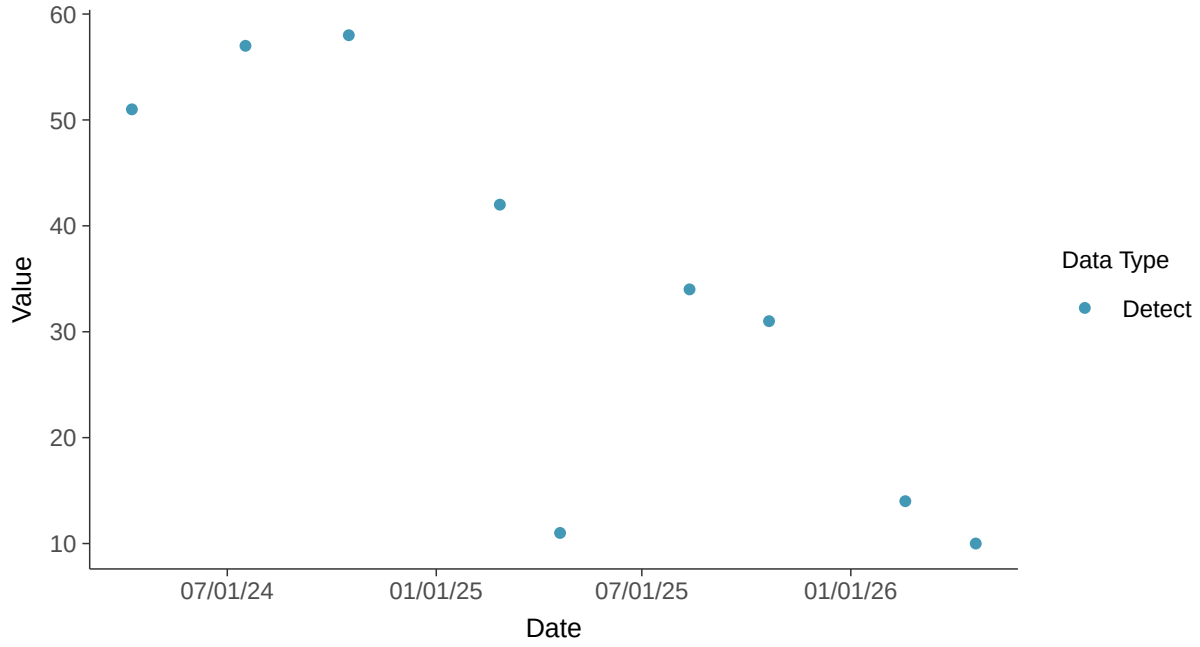


Appendix III: Chloride (as Cl), MW-38

ID: 48_2_3_108

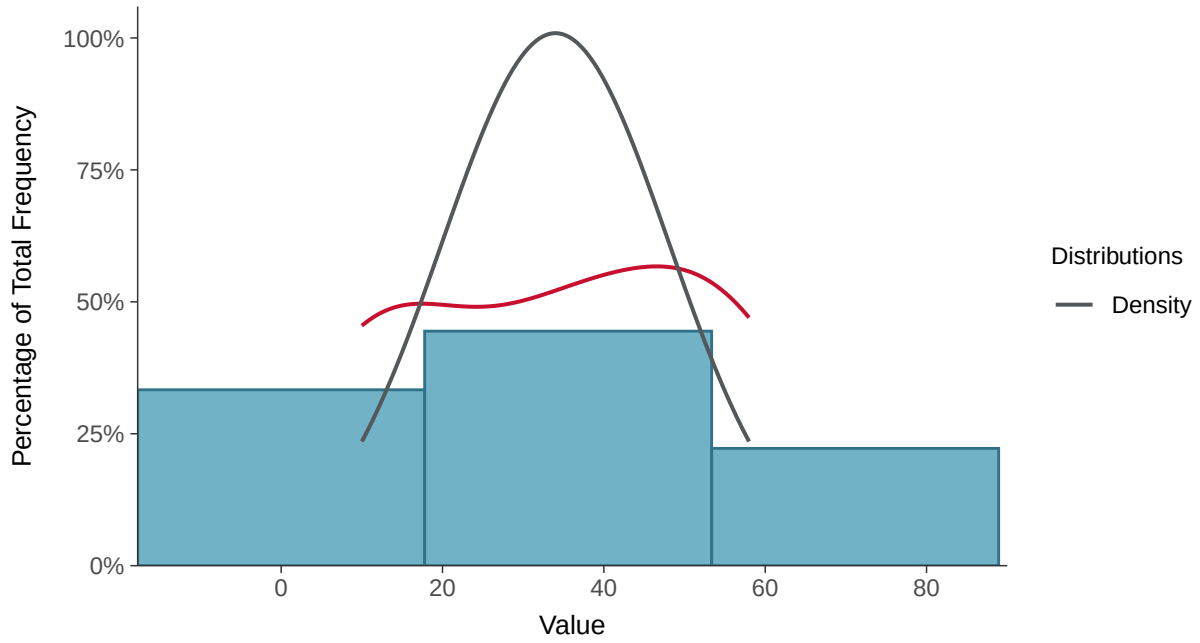
Scatter Plot

Chloride (as Cl), MW-38 (mg/L)



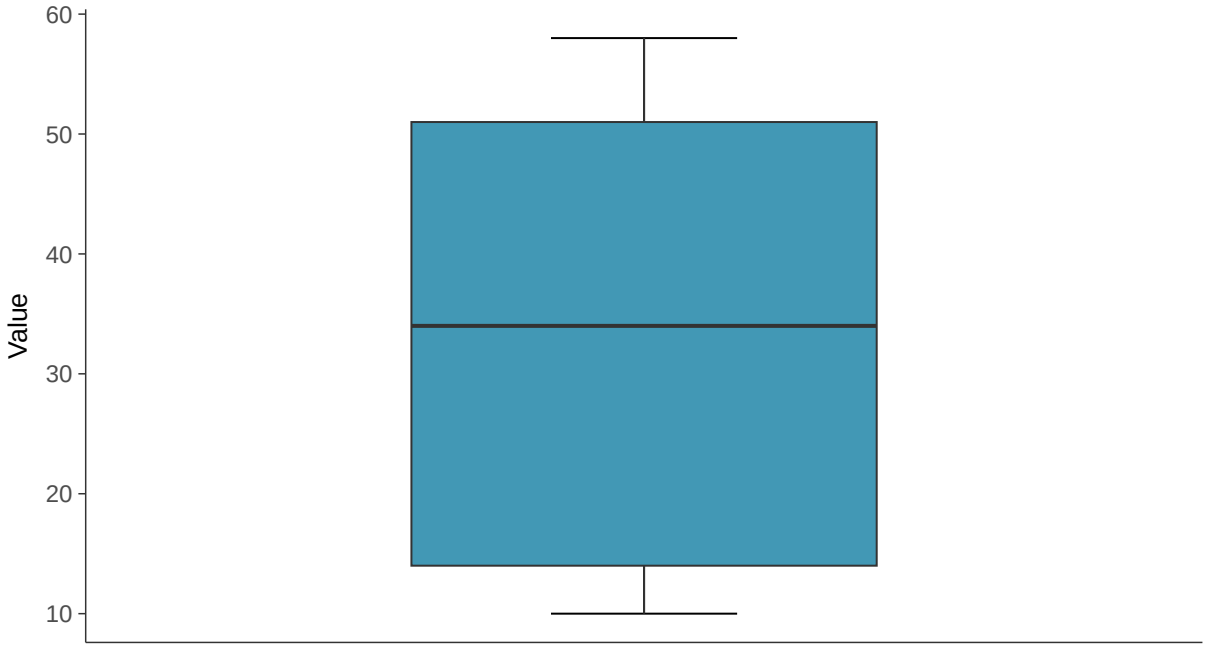
Histogram

Chloride (as Cl), MW-38 (mg/L)



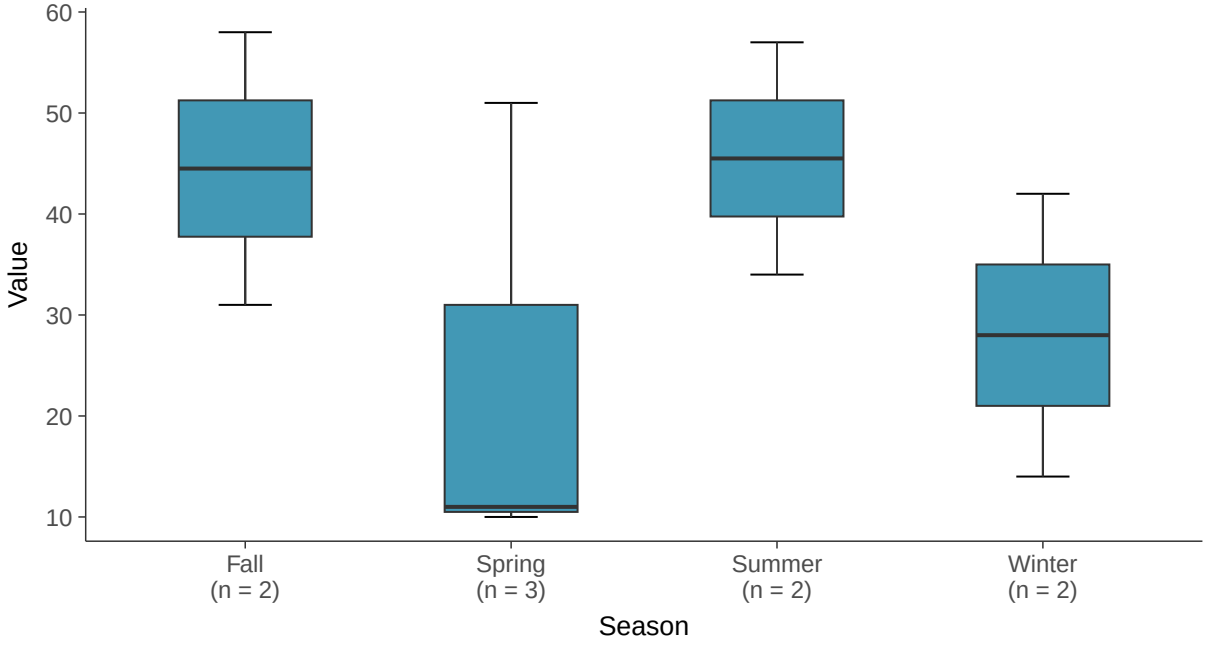
Boxplot

Chloride (as Cl), MW-38 (mg/L)



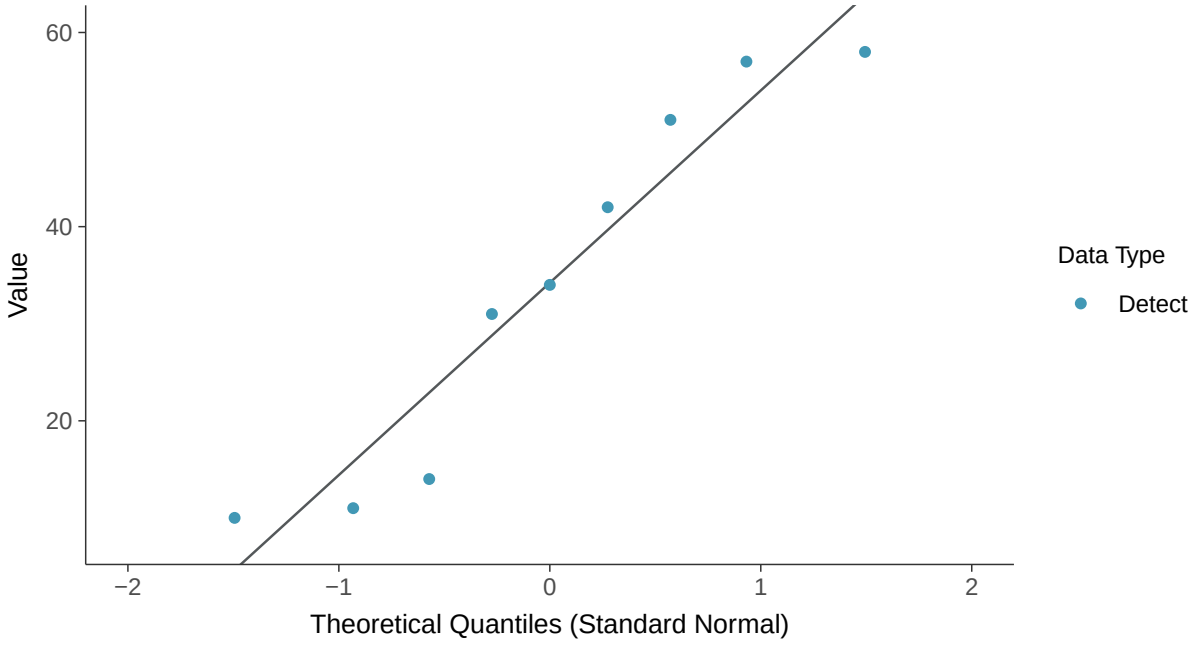
Boxplot by Season

Chloride (as Cl), MW-38 (mg/L)



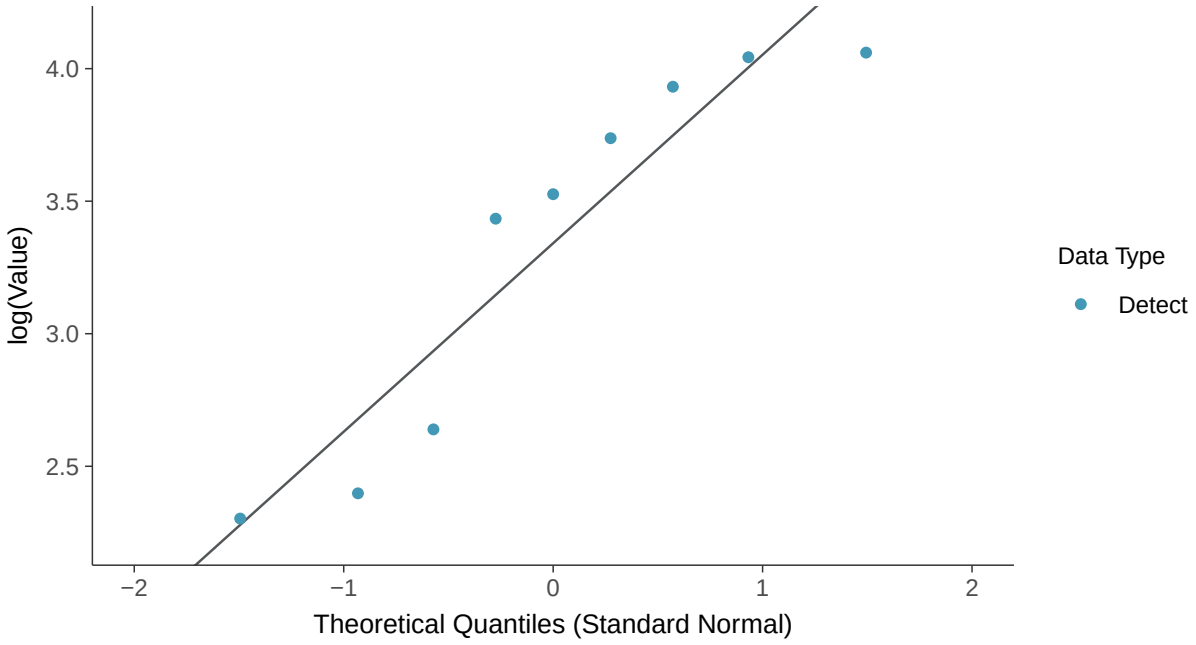
Normal Q-Q plot

Chloride (as Cl), MW-38 (mg/L)



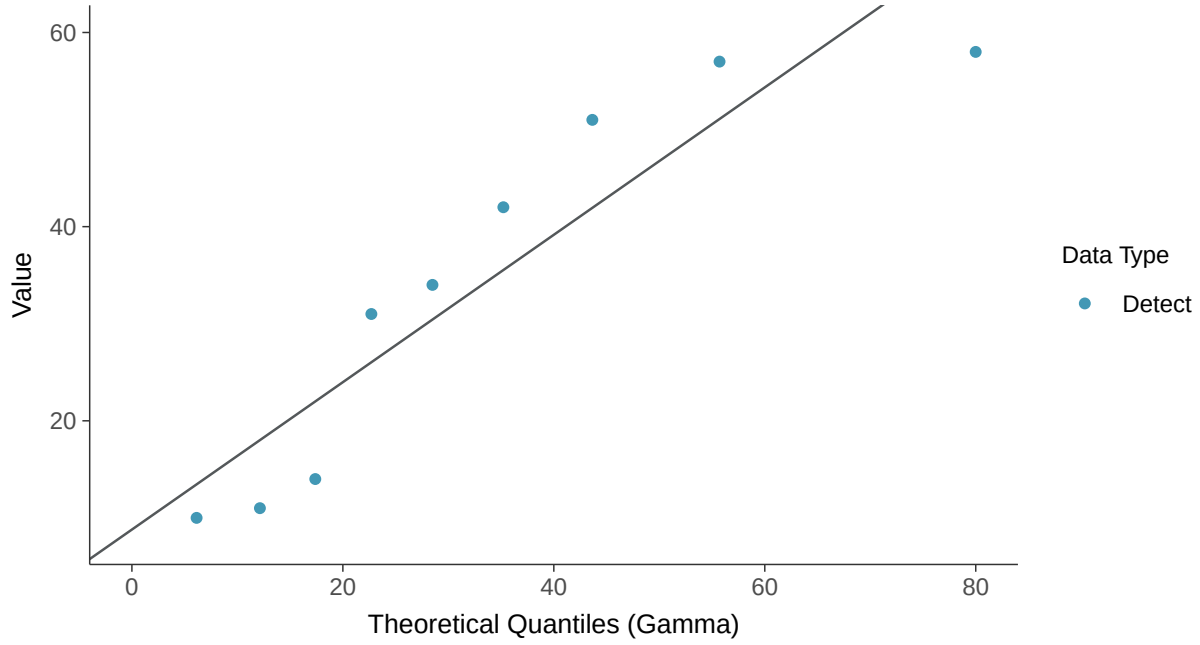
Lognormal Q-Q plot

Chloride (as Cl), MW-38 (mg/L)



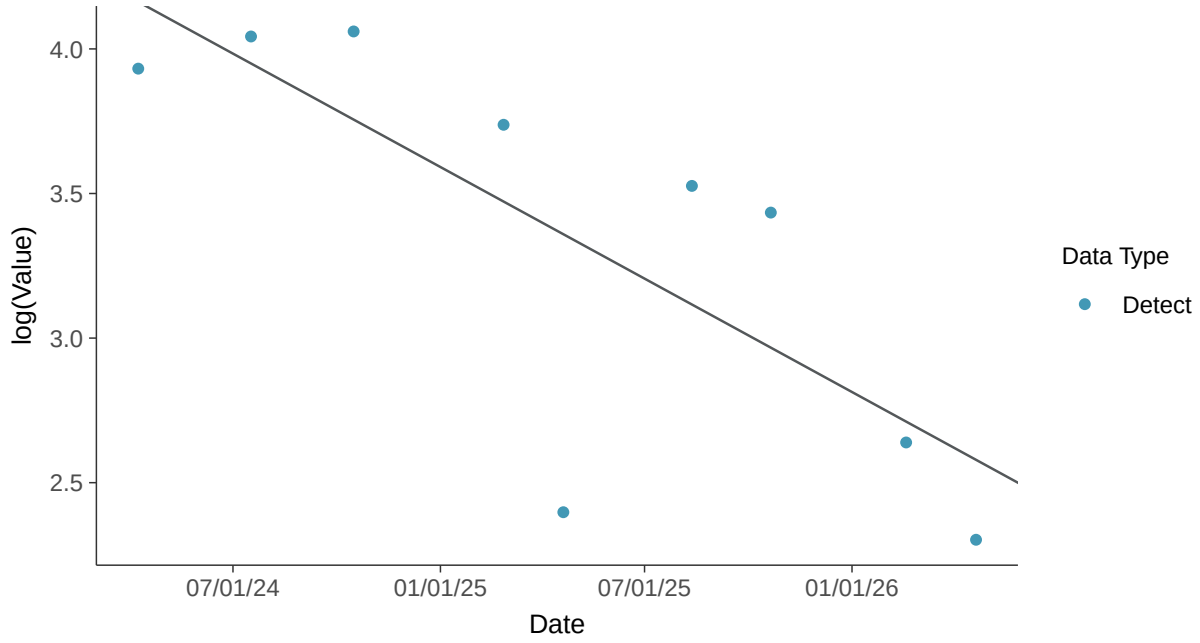
Gamma Q-Q plot

Chloride (as Cl), MW-38 (mg/L)



Trend Regression: Lognormal MLE

Chloride (as Cl), MW-38 (mg/L)

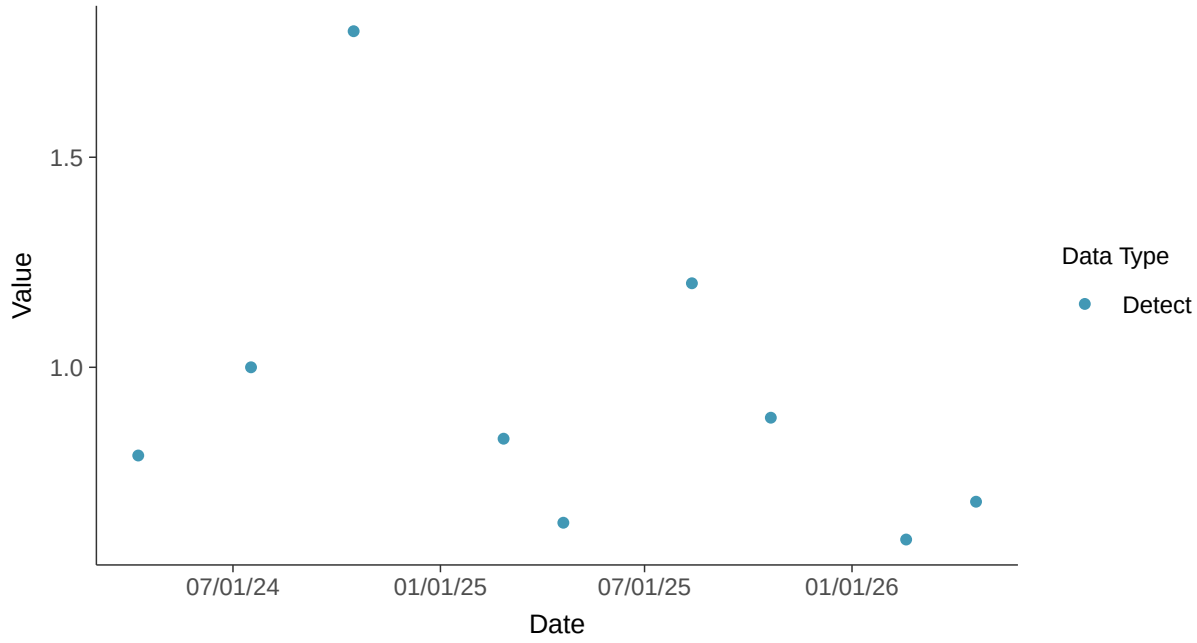


Appendix III: Fluoride, MW-38

ID: 48_2_3_112

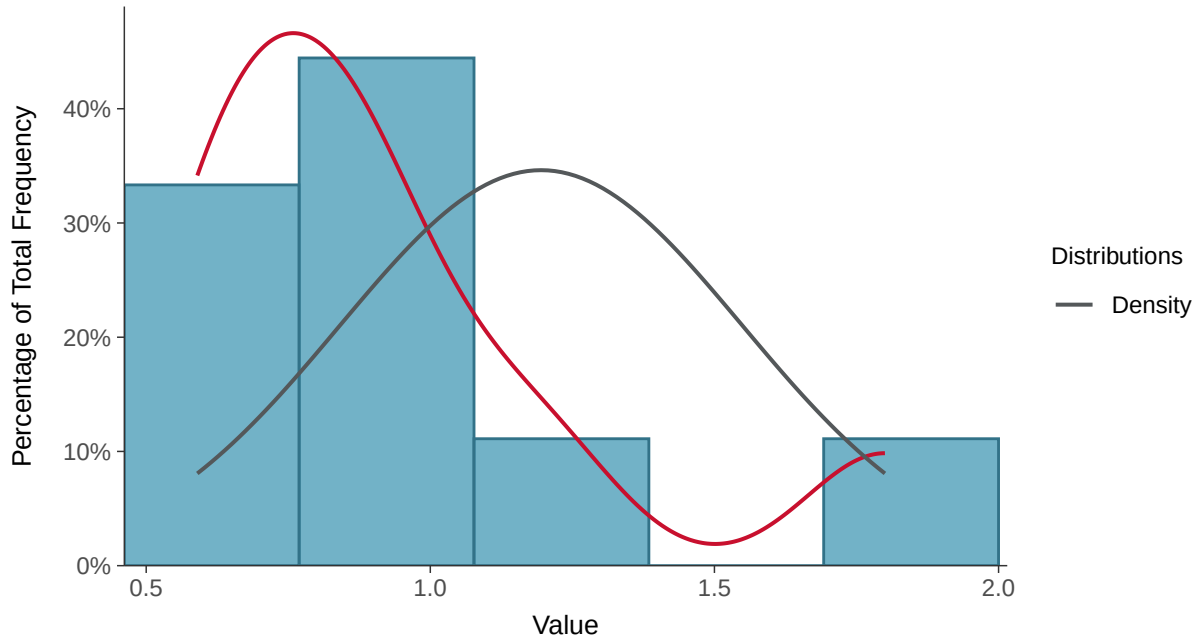
Scatter Plot

Fluoride, MW-38 (mg/L)



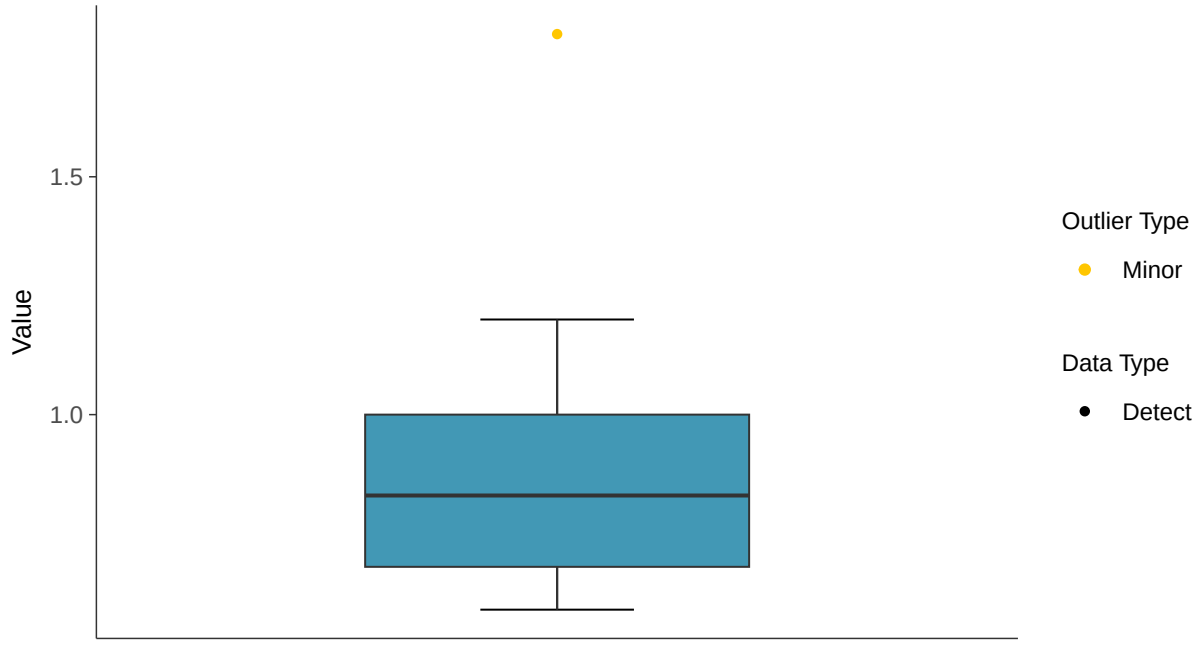
Histogram

Fluoride, MW-38 (mg/L)



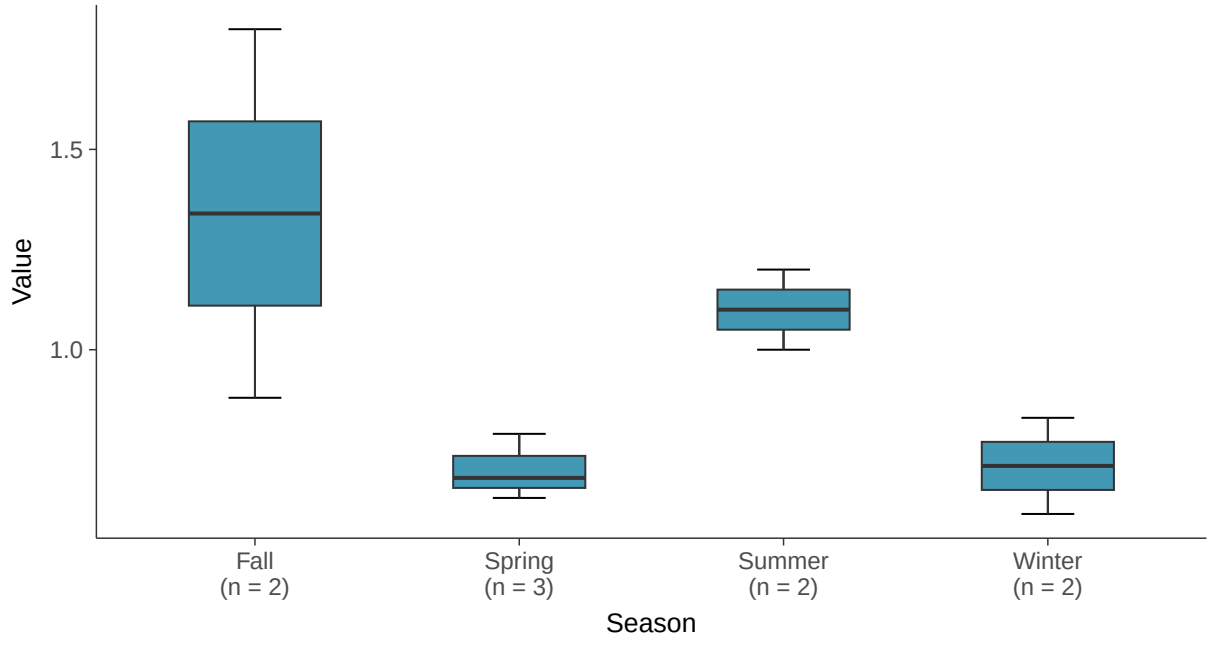
Boxplot

Fluoride, MW-38 (mg/L)



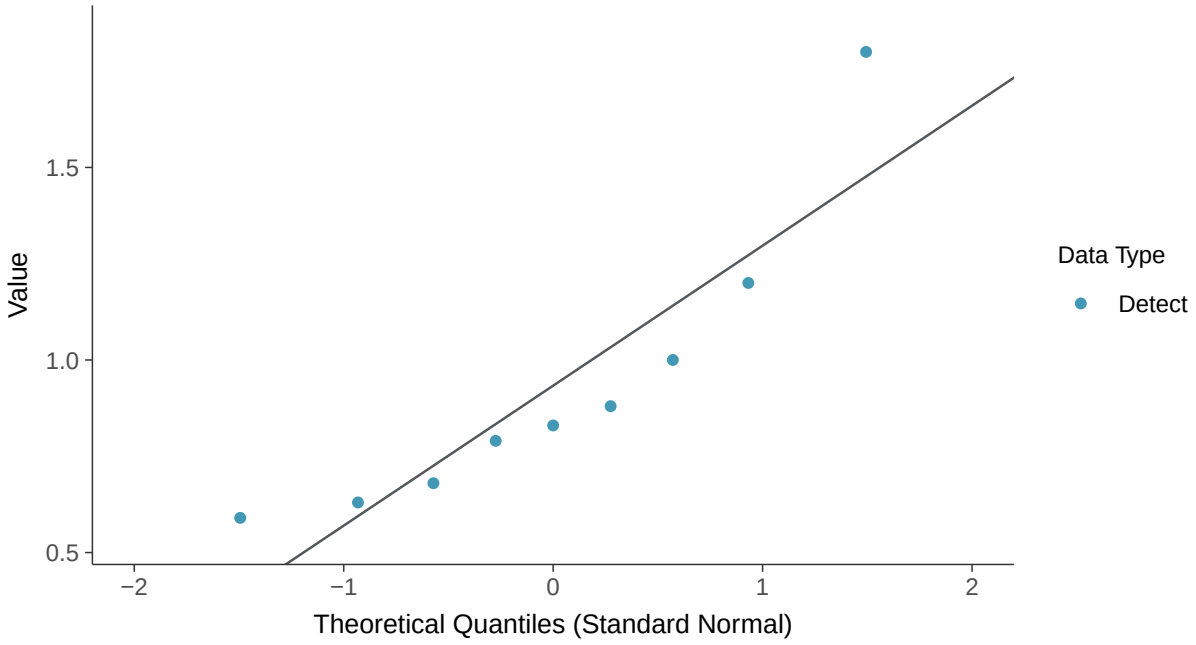
Boxplot by Season

Fluoride, MW-38 (mg/L)



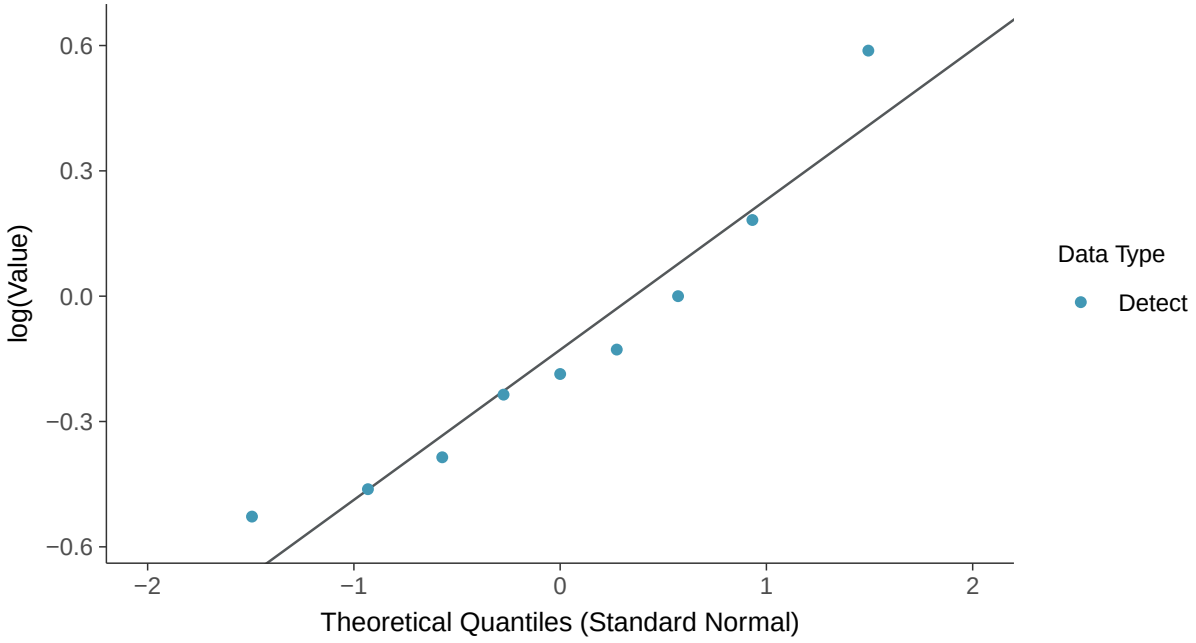
Normal Q-Q plot

Fluoride, MW-38 (mg/L)



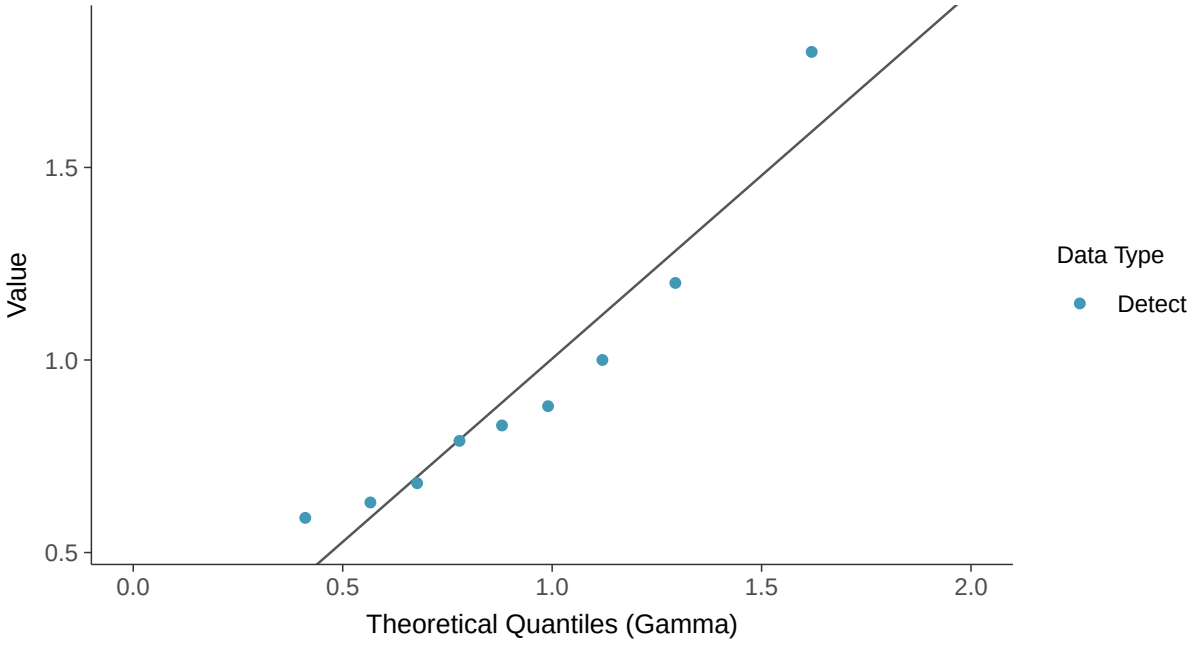
Lognormal Q-Q plot

Fluoride, MW-38 (mg/L)



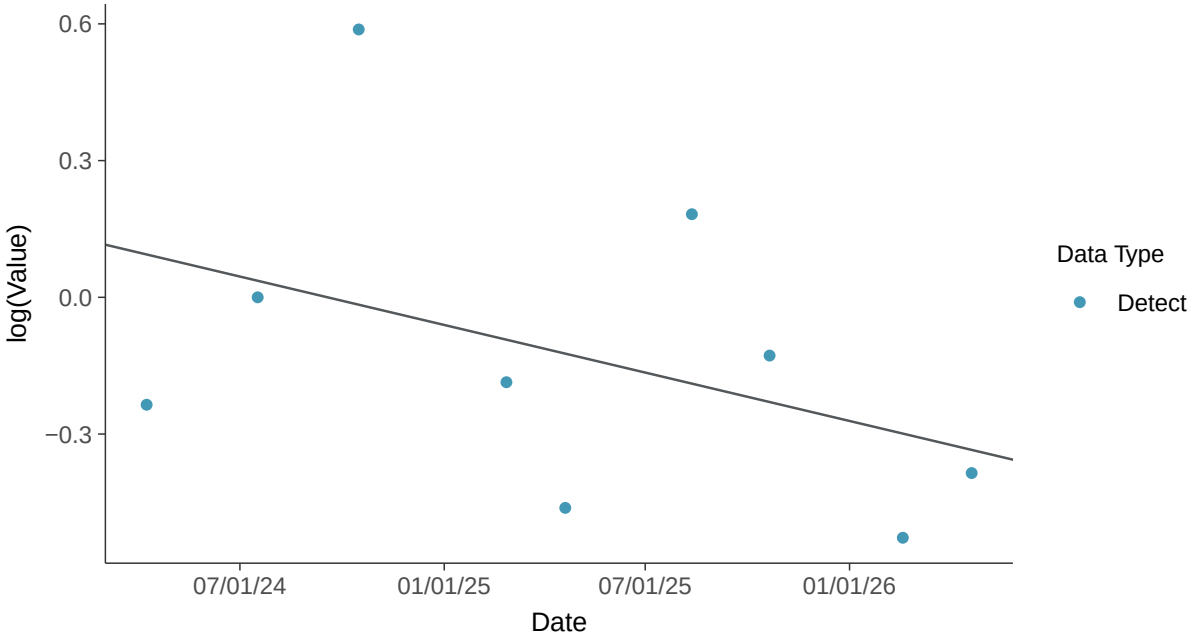
Gamma Q-Q plot

Fluoride, MW-38 (mg/L)



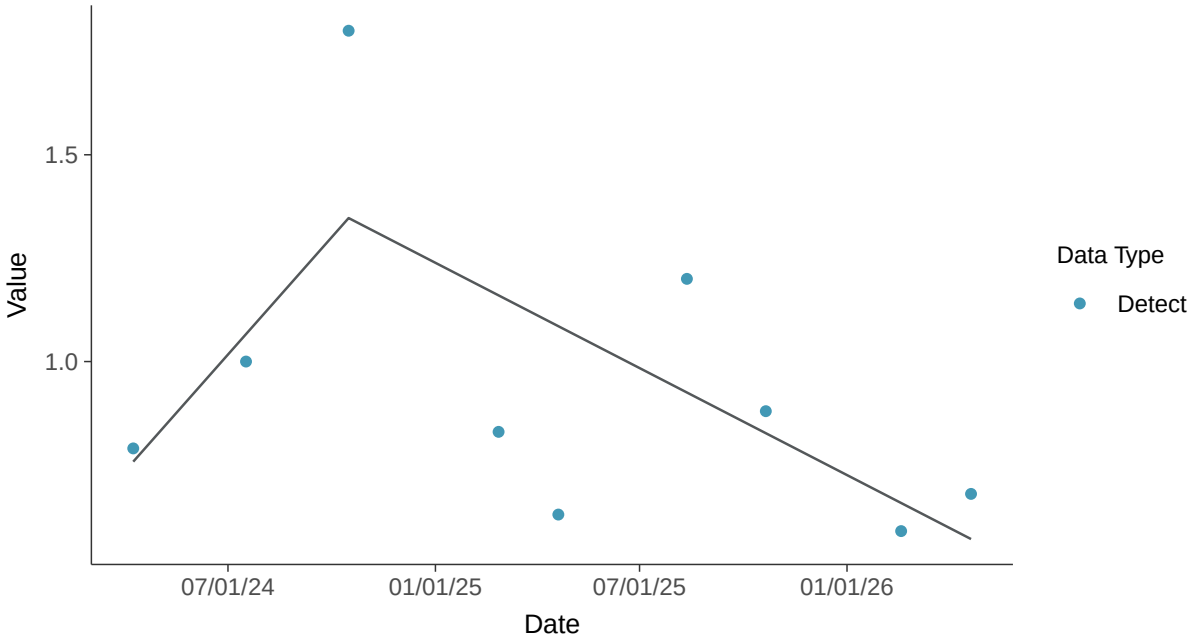
Trend Regression: Lognormal MLE

Fluoride, MW-38 (mg/L)



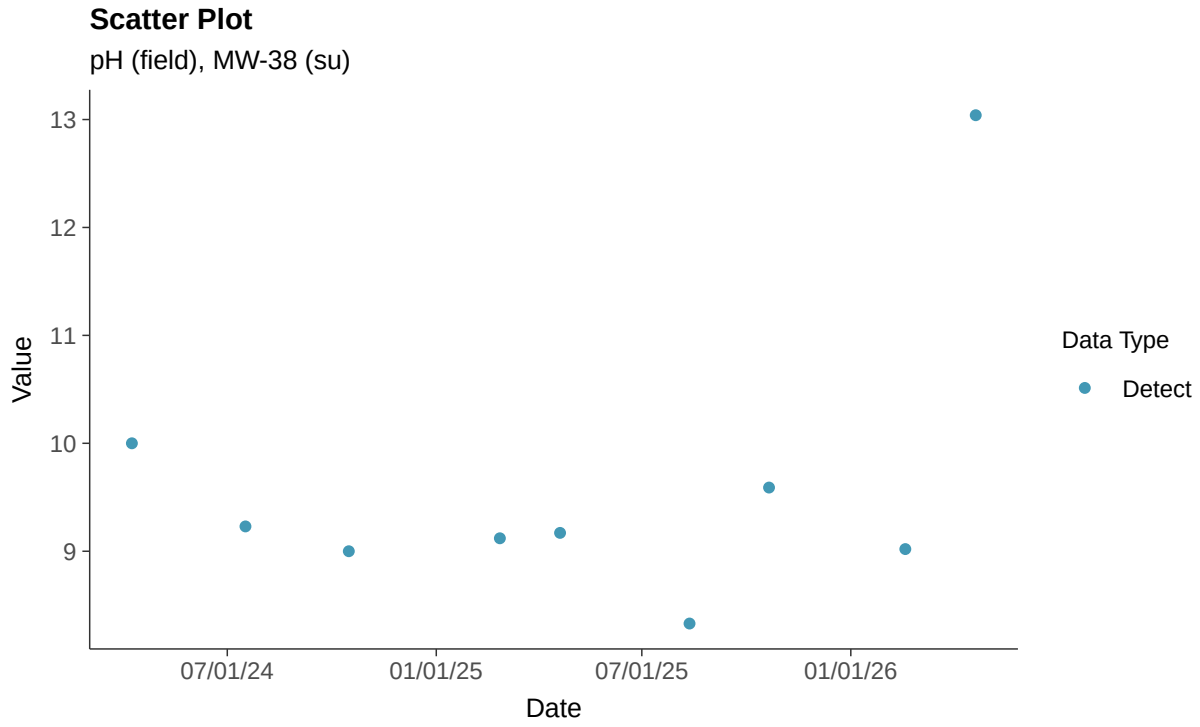
Trend Regression: Piecewise Linear-Linear

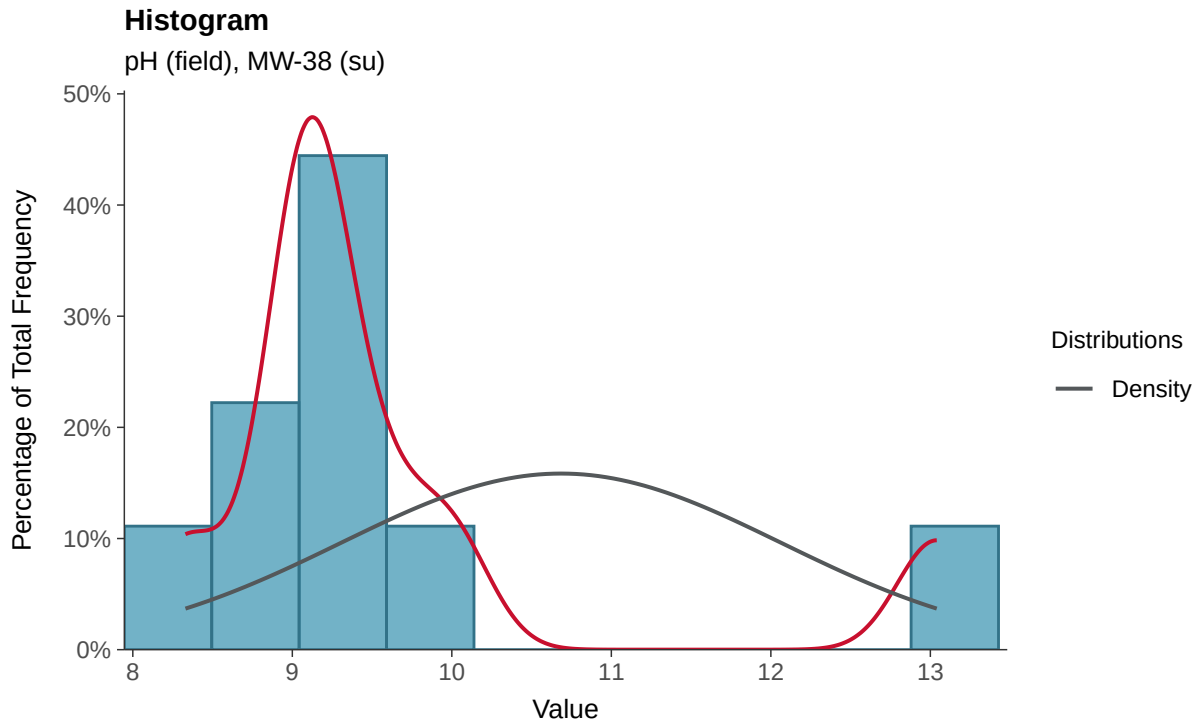
Fluoride, MW-38 (mg/L)



Appendix III: pH (field), MW-38

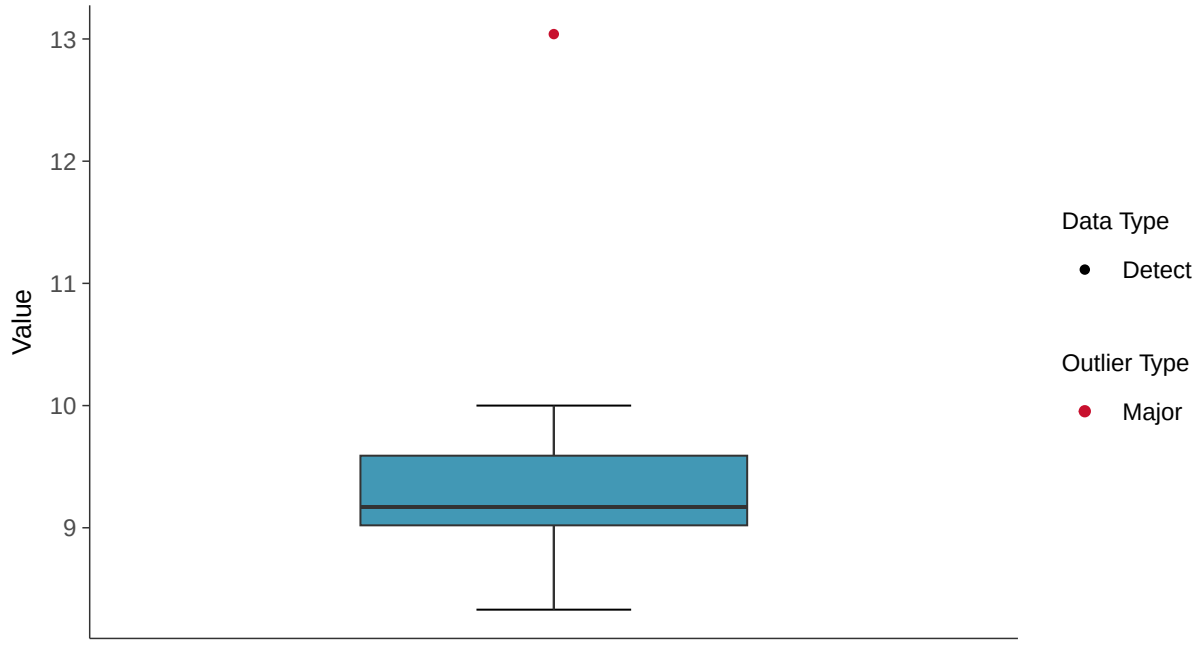
ID: 48_2_3_120





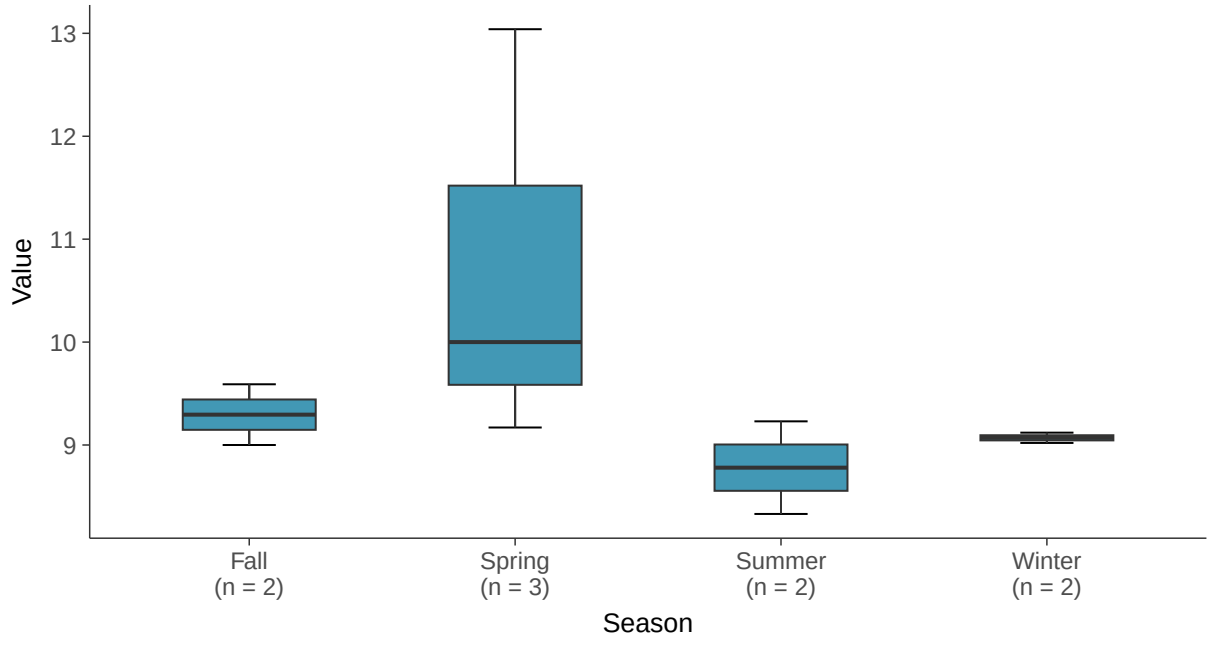
Boxplot

pH (field), MW-38 (su)



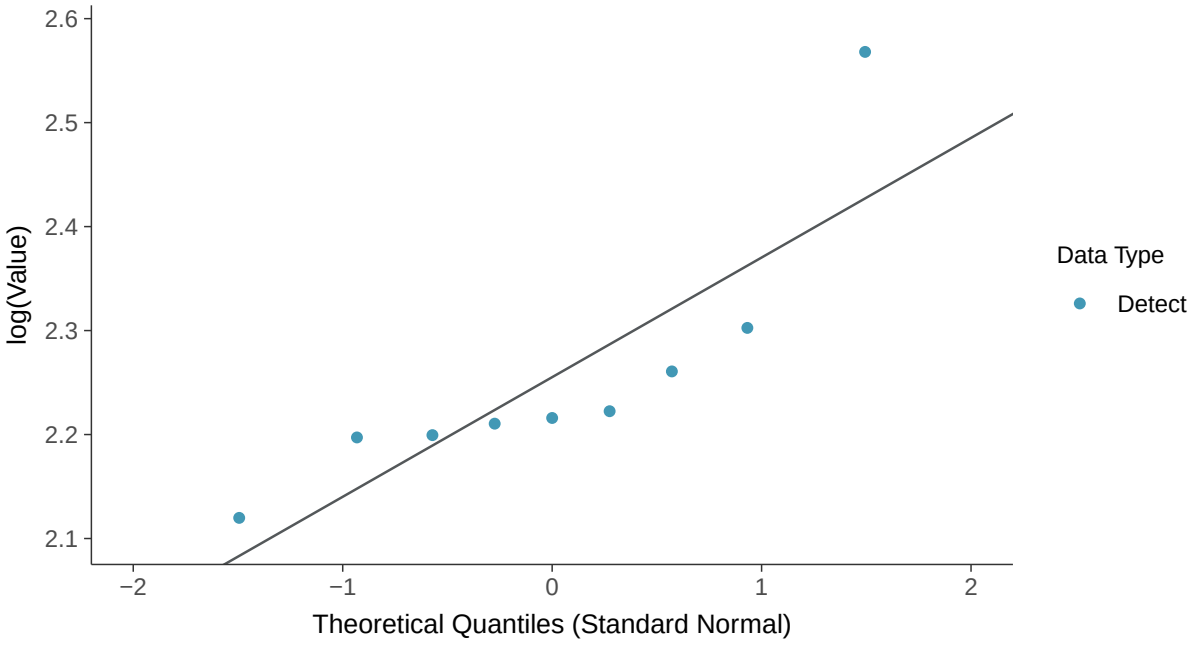
Boxplot by Season

pH (field), MW-38 (su)



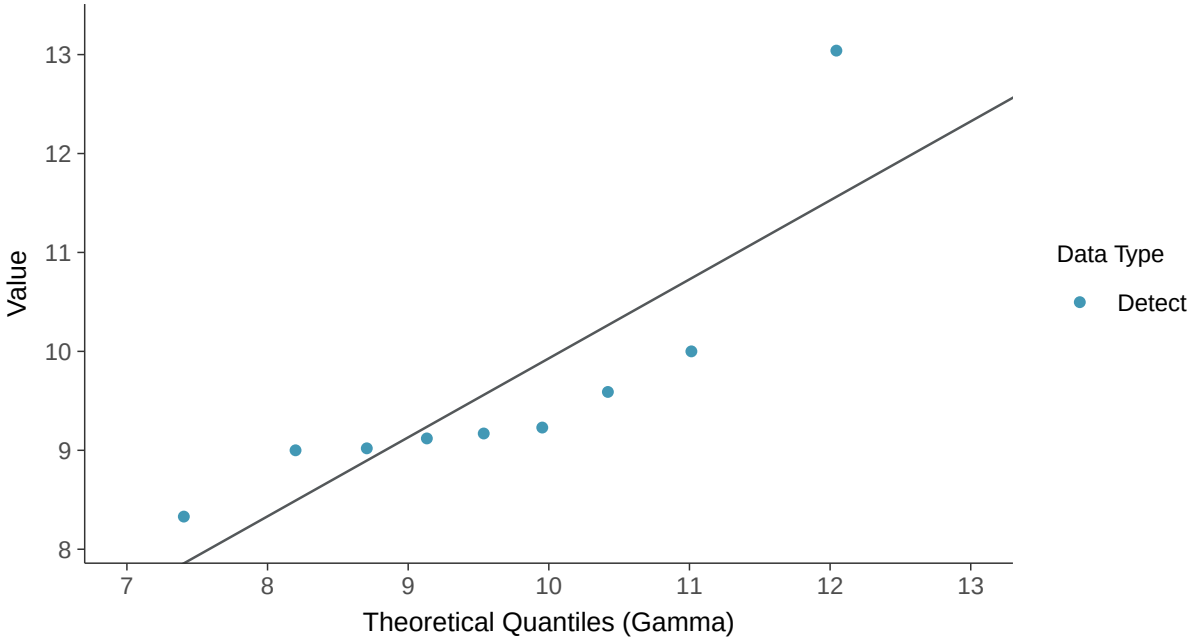
Lognormal Q-Q plot

pH (field), MW-38 (su)



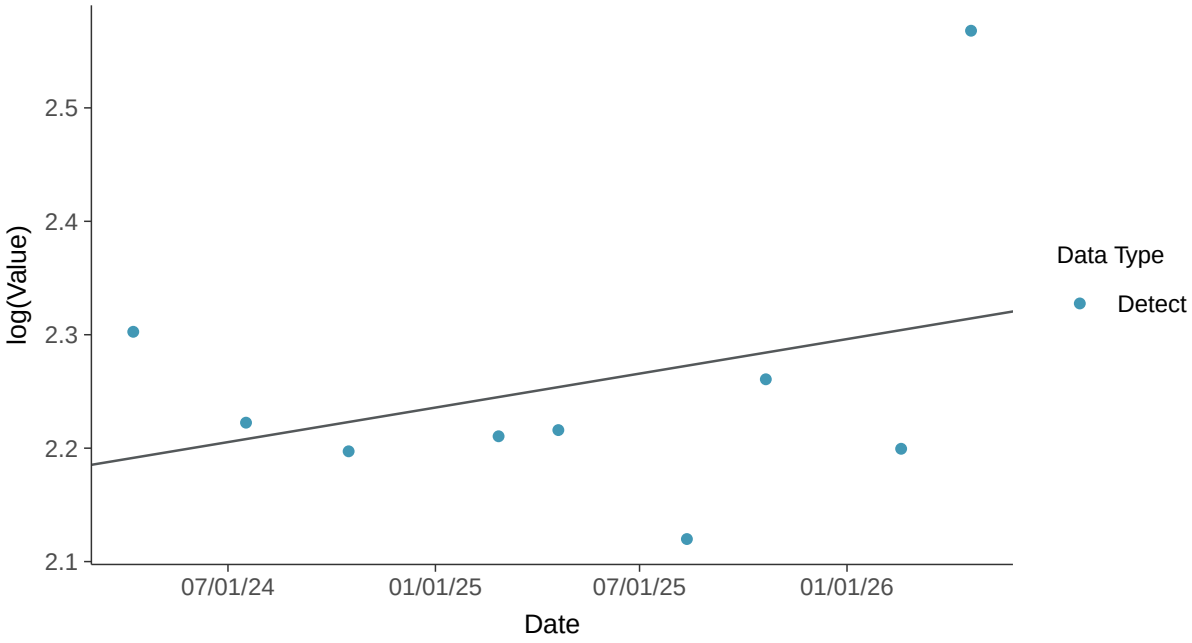
Gamma Q-Q plot

pH (field), MW-38 (su)



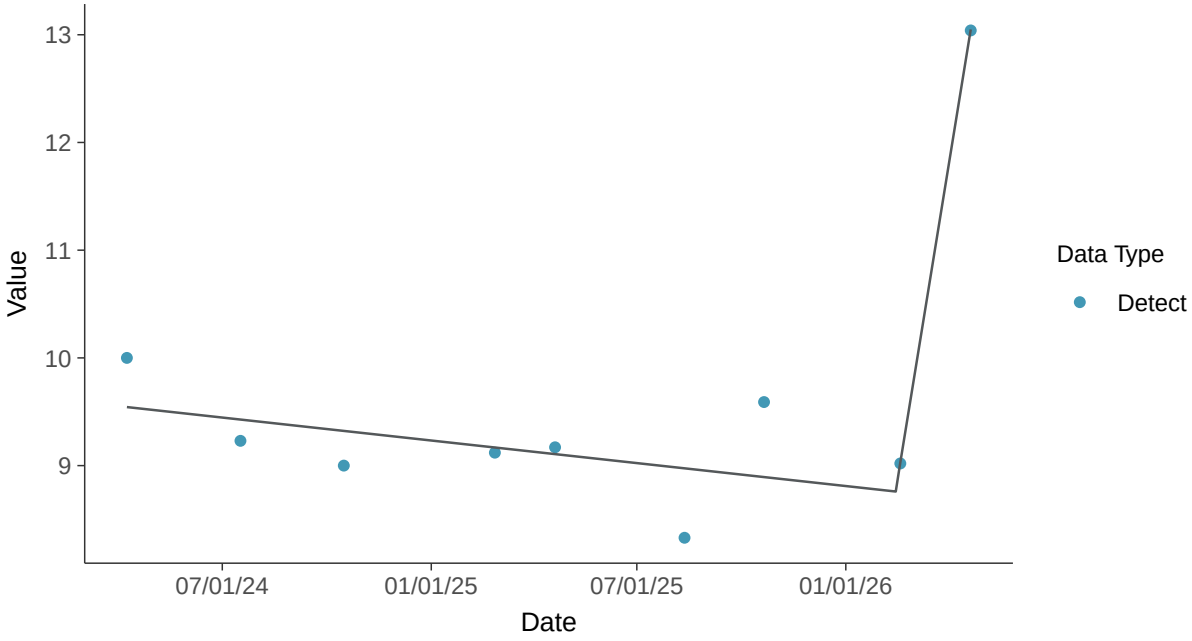
Trend Regression: Lognormal MLE

pH (field), MW-38 (su)



Trend Regression: Piecewise Linear-Linear

pH (field), MW-38 (su)

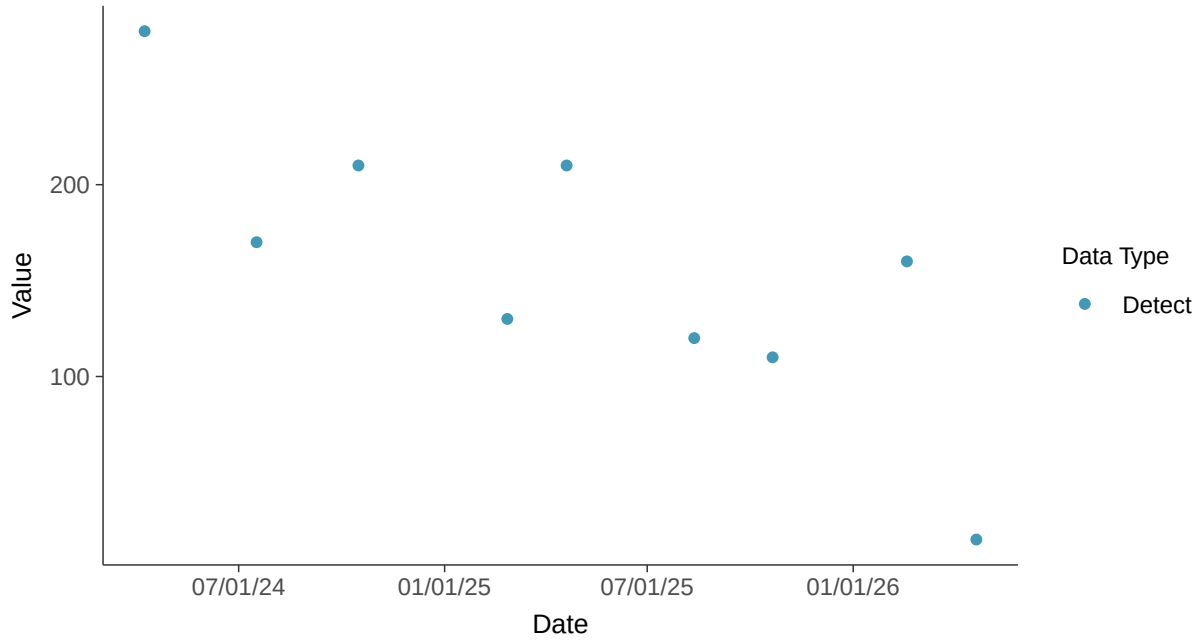


Appendix III: Sulfate (as SO4), MW-38

ID: 48_2_3_124

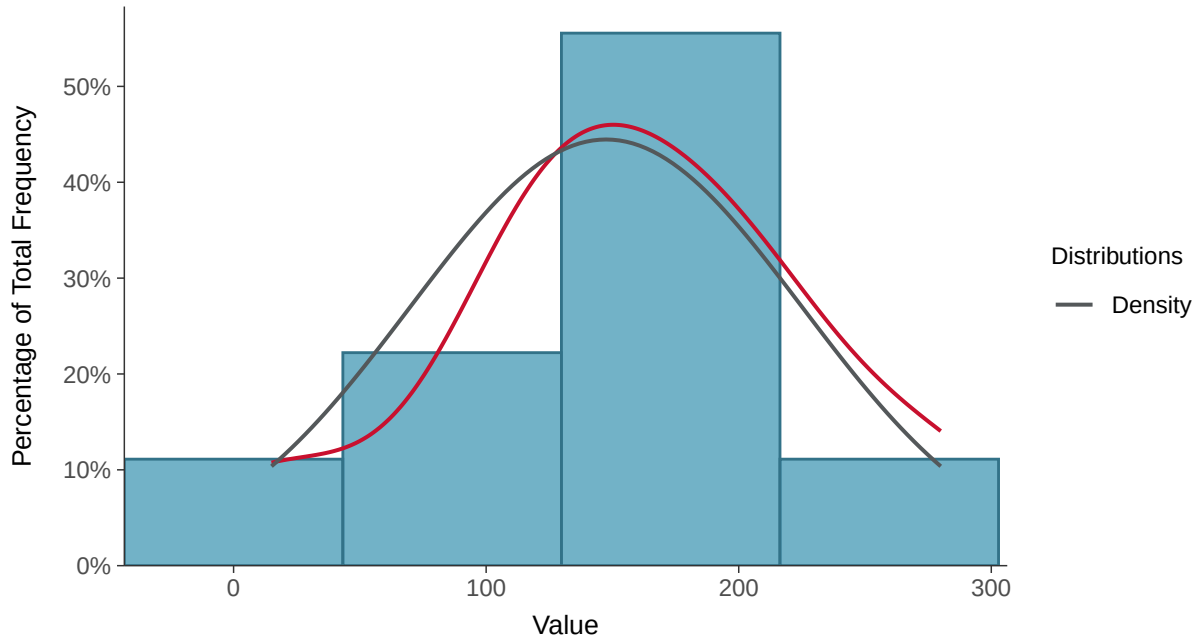
Scatter Plot

Sulfate (as SO4), MW-38 (mg/L)



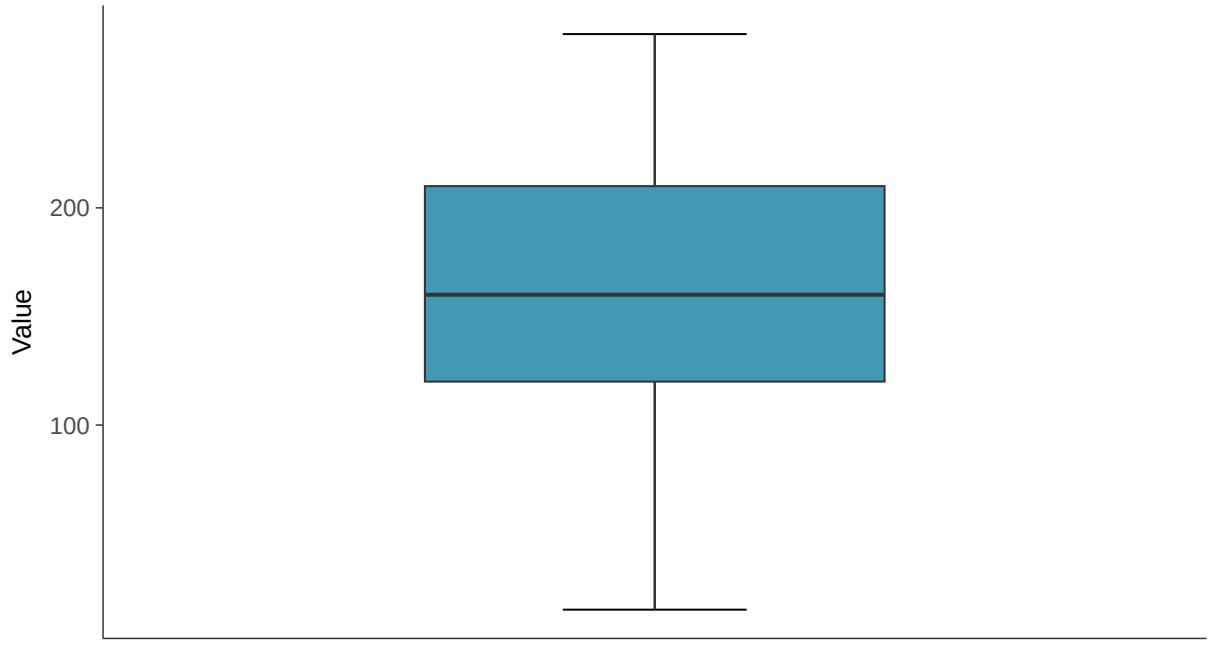
Histogram

Sulfate (as SO4), MW-38 (mg/L)



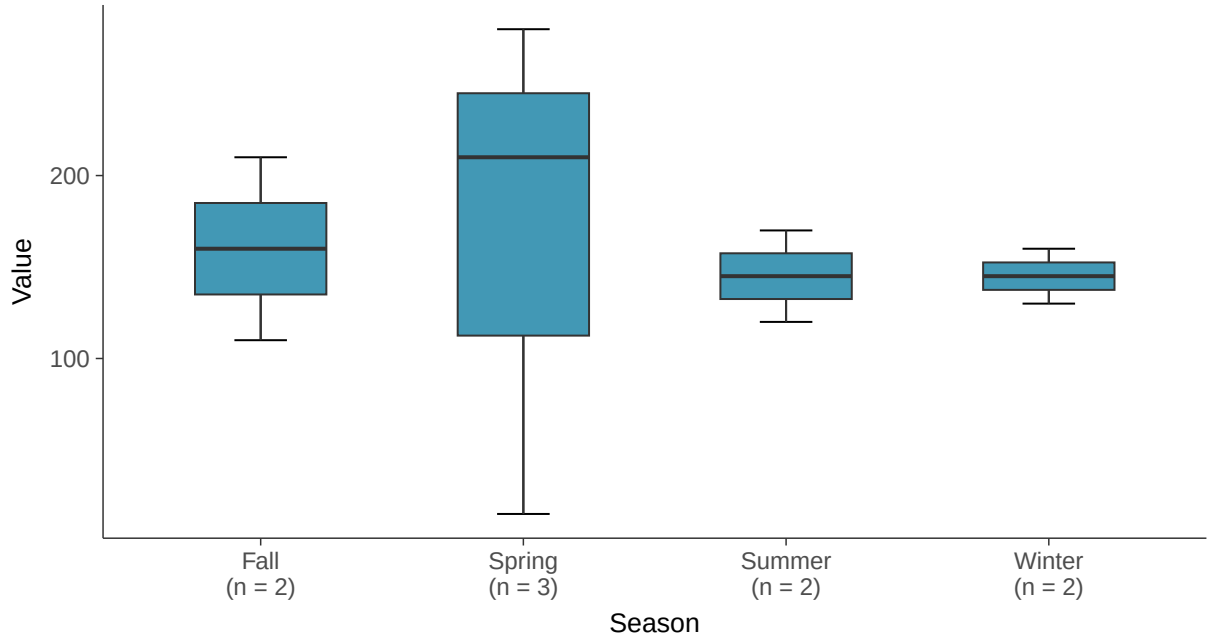
Boxplot

Sulfate (as SO4), MW-38 (mg/L)



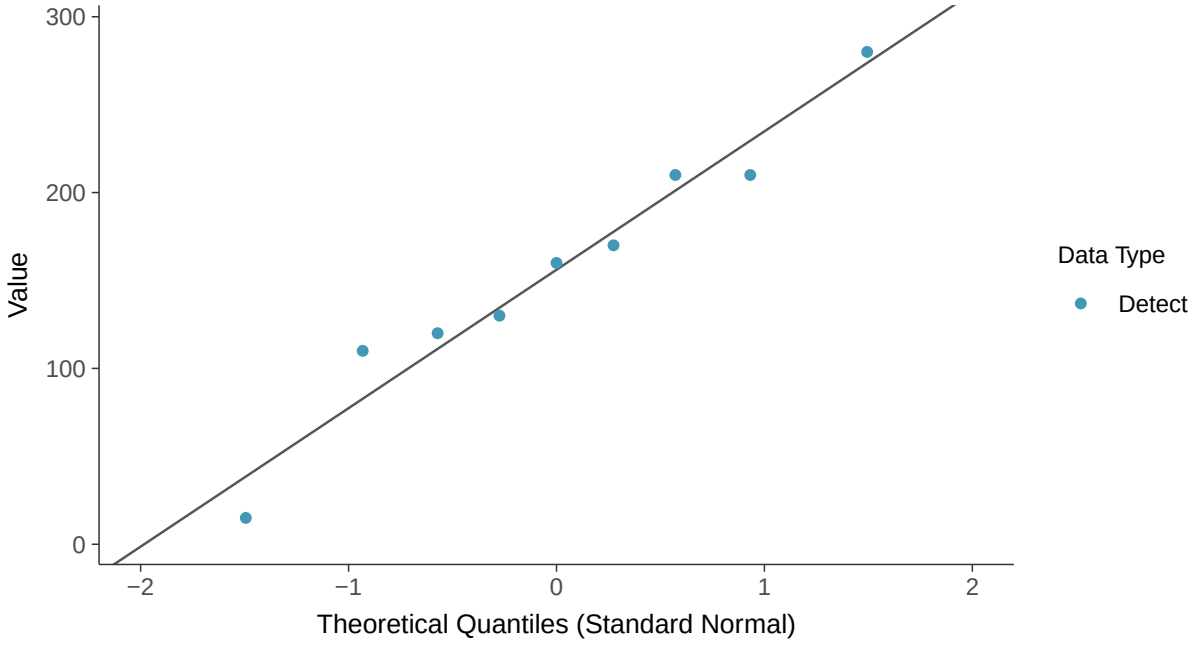
Boxplot by Season

Sulfate (as SO4), MW-38 (mg/L)



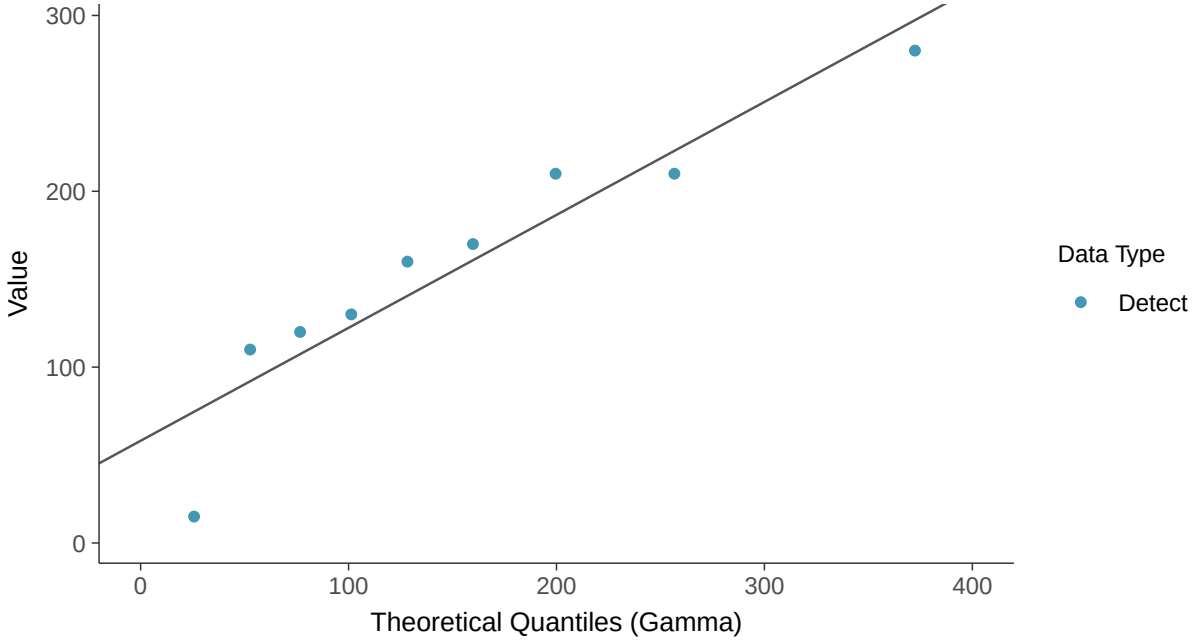
Normal Q-Q plot

Sulfate (as SO4), MW-38 (mg/L)



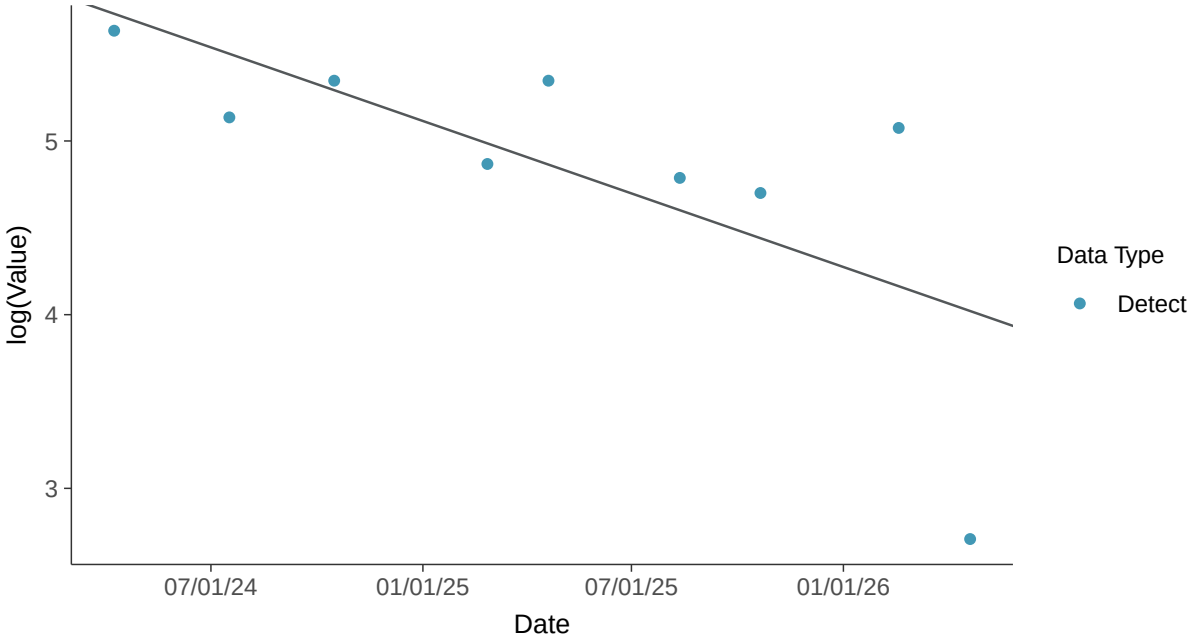
Gamma Q-Q plot

Sulfate (as SO4), MW-38 (mg/L)



Trend Regression: Lognormal MLE

Sulfate (as SO4), MW-38 (mg/L)

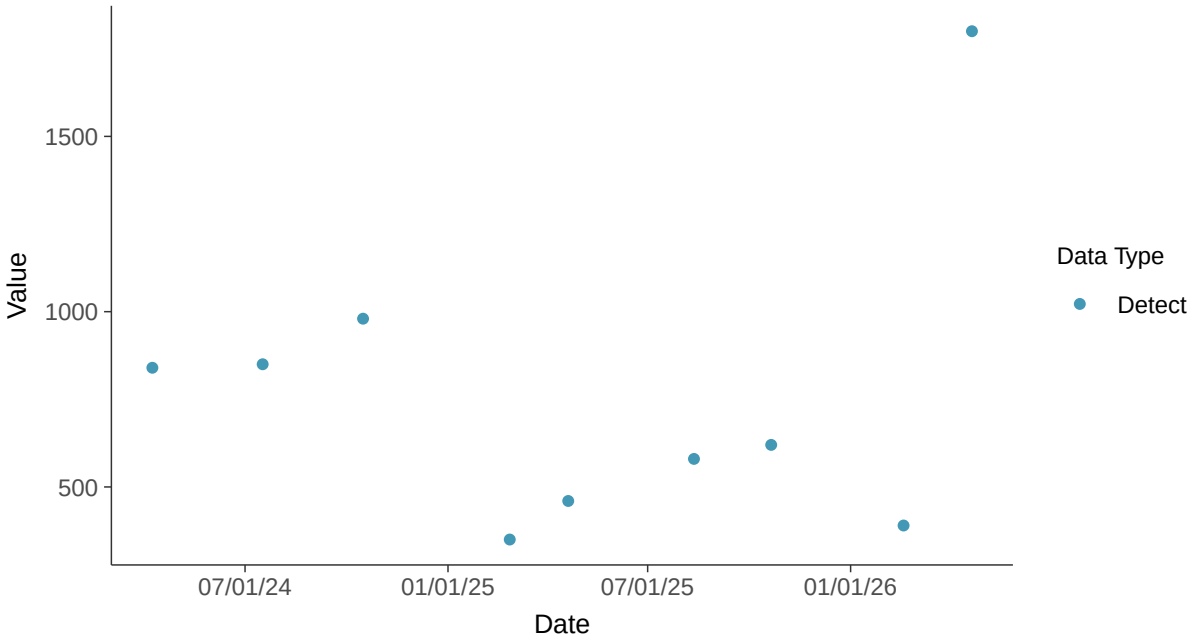


Appendix III: Total Dissolved Solids, MW-38

ID: 48_2_3_126

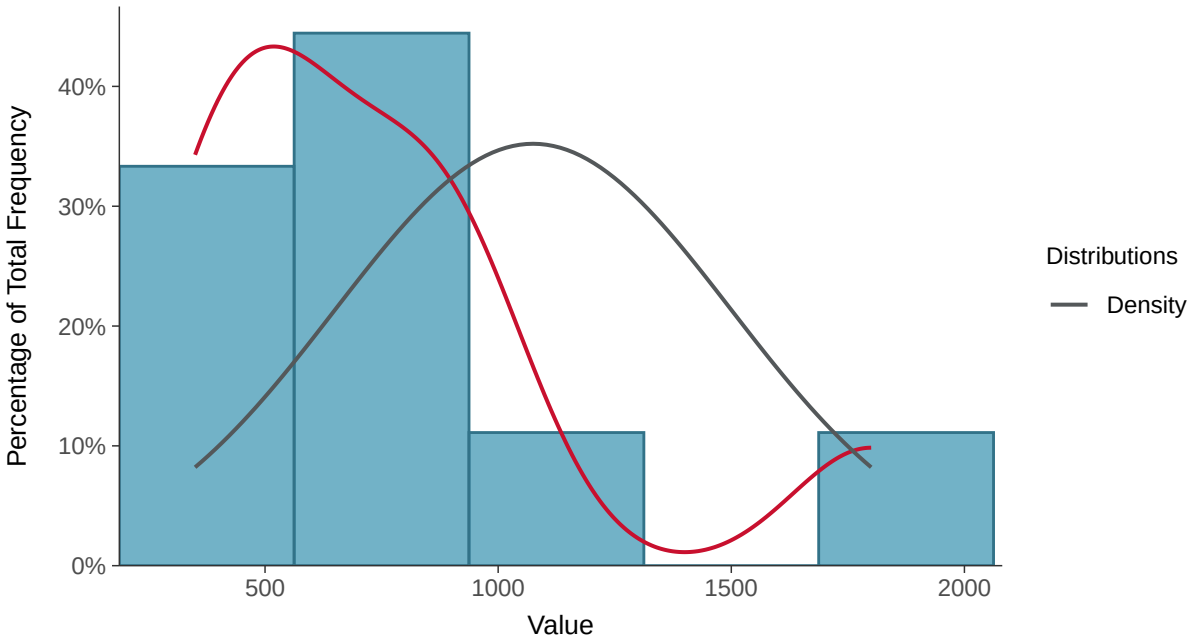
Scatter Plot

Total Dissolved Solids, MW-38 (mg/L)



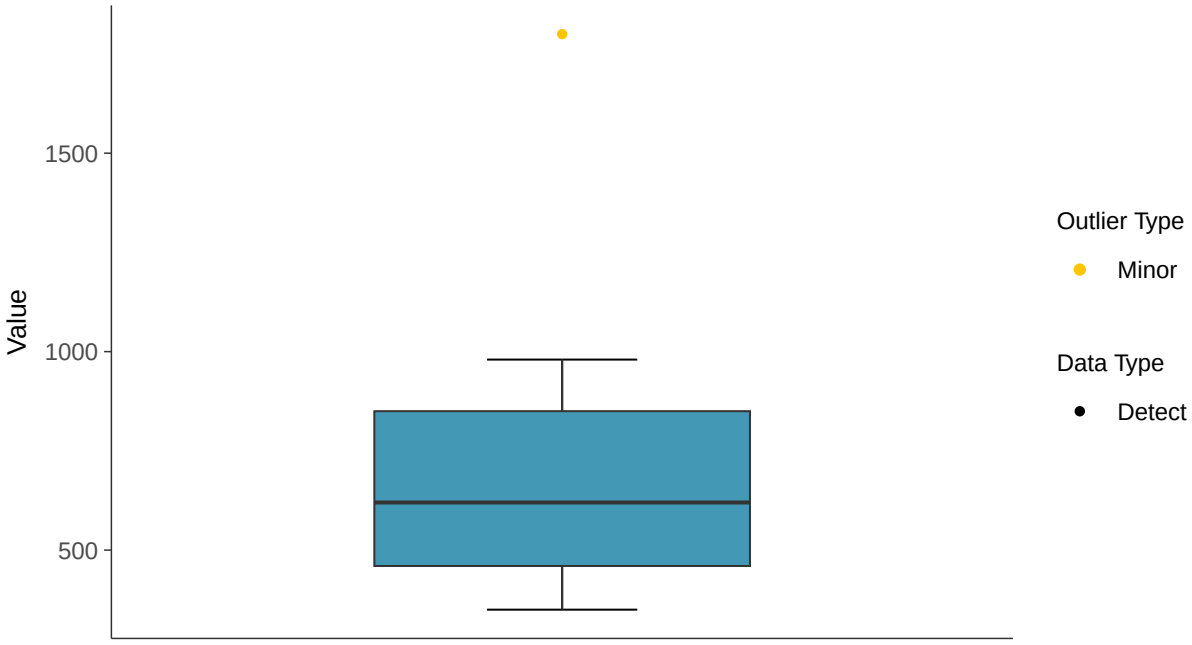
Histogram

Total Dissolved Solids, MW-38 (mg/L)



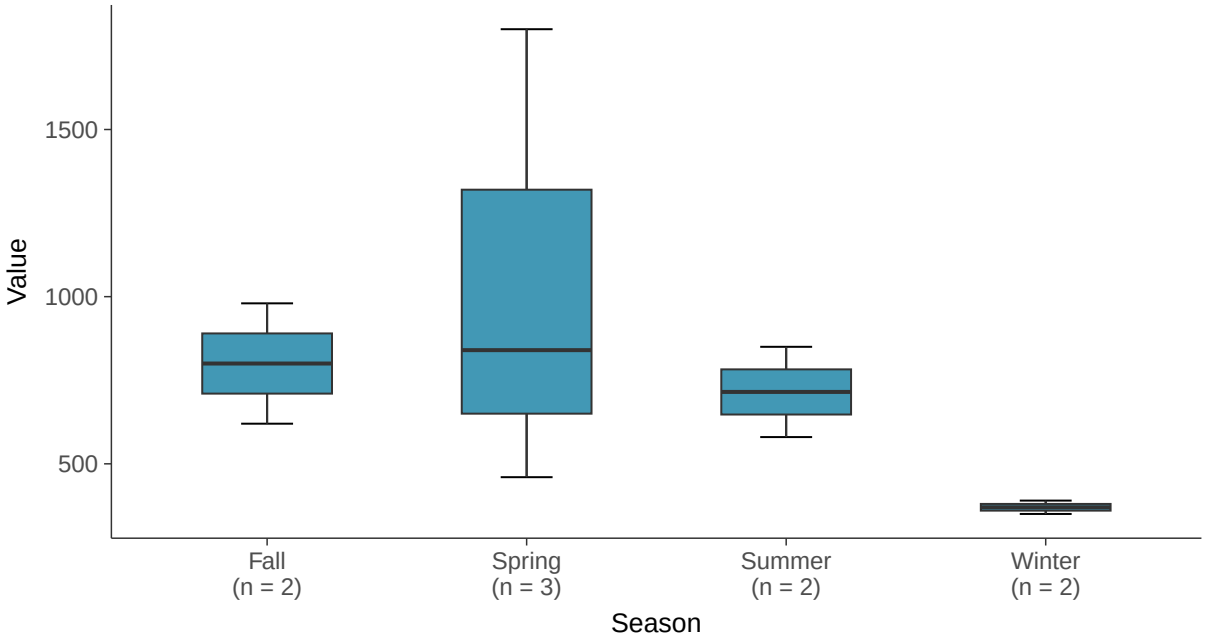
Boxplot

Total Dissolved Solids, MW-38 (mg/L)



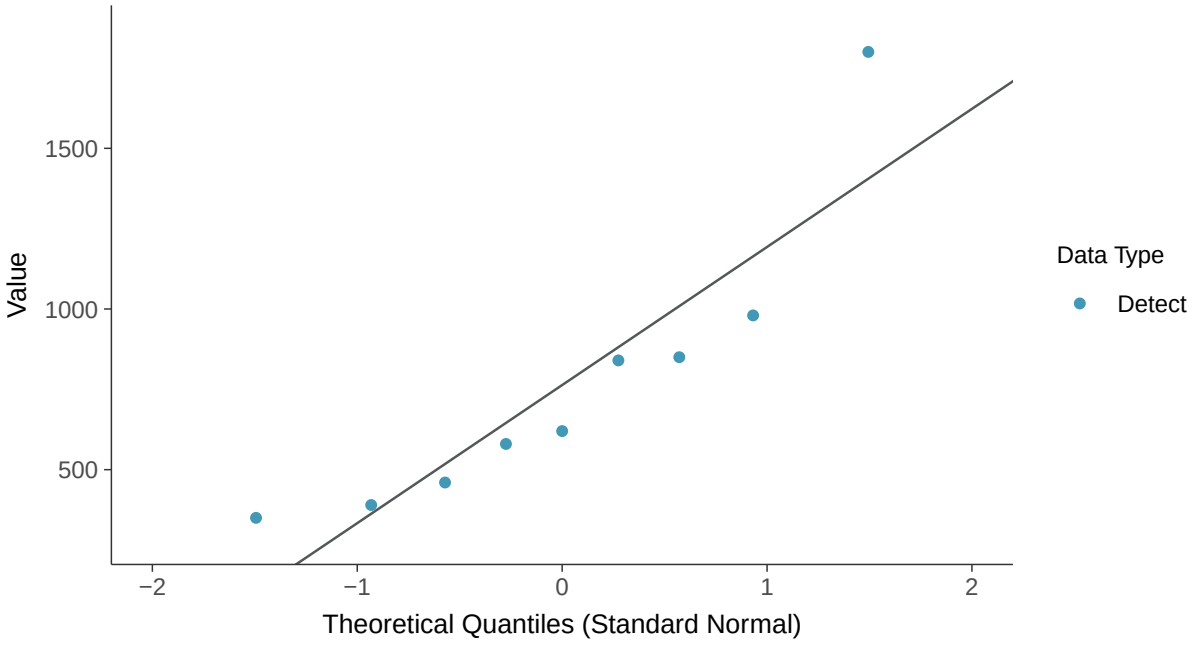
Boxplot by Season

Total Dissolved Solids, MW-38 (mg/L)



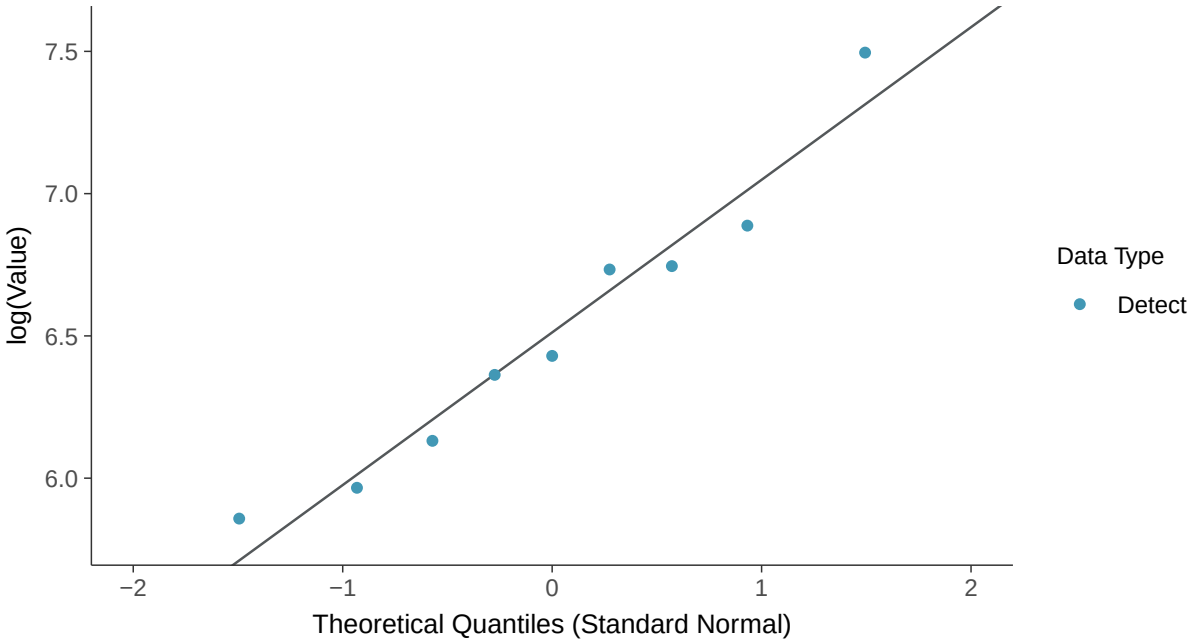
Normal Q-Q plot

Total Dissolved Solids, MW-38 (mg/L)



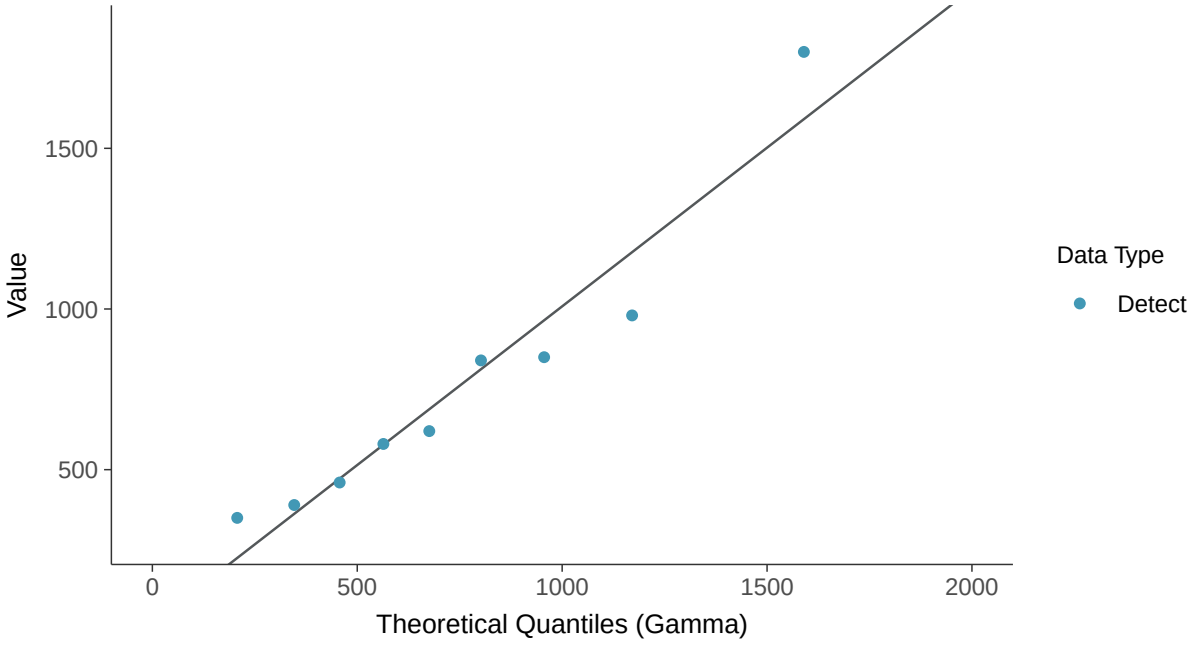
Lognormal Q-Q plot

Total Dissolved Solids, MW-38 (mg/L)



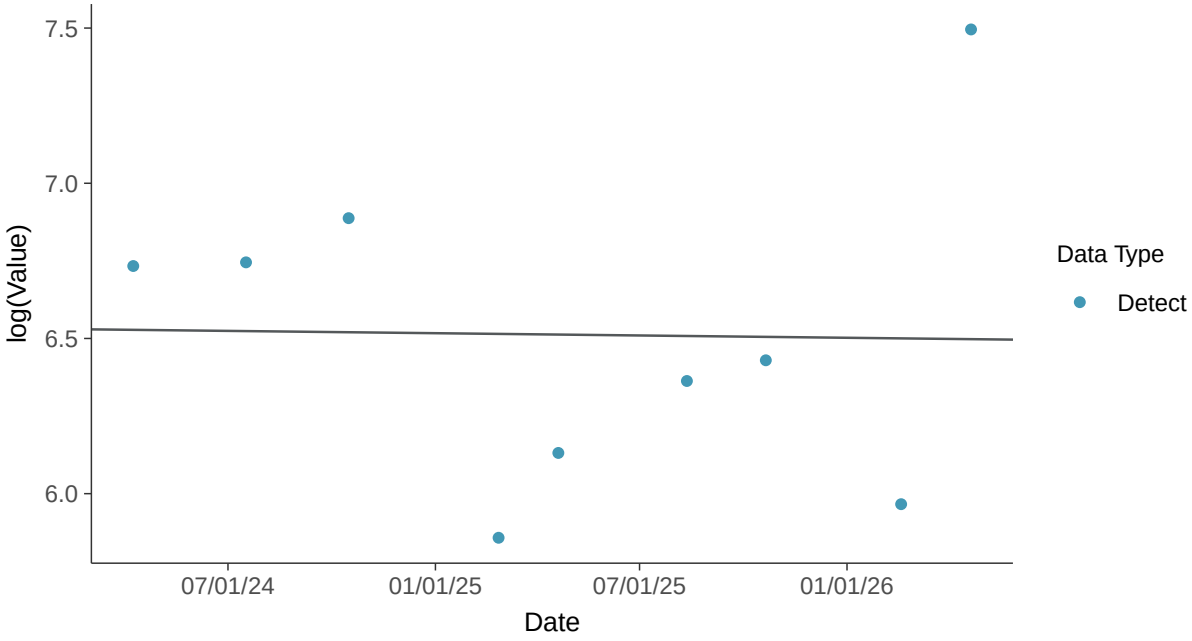
Gamma Q-Q plot

Total Dissolved Solids, MW-38 (mg/L)



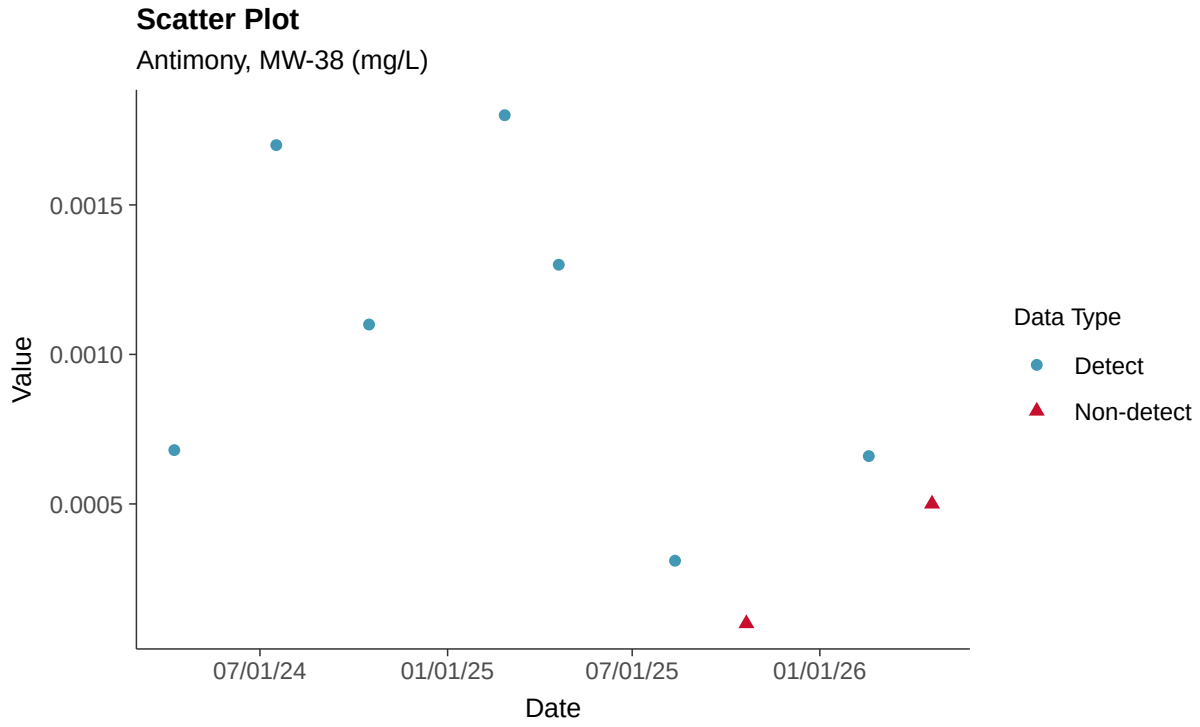
Trend Regression: Lognormal MLE

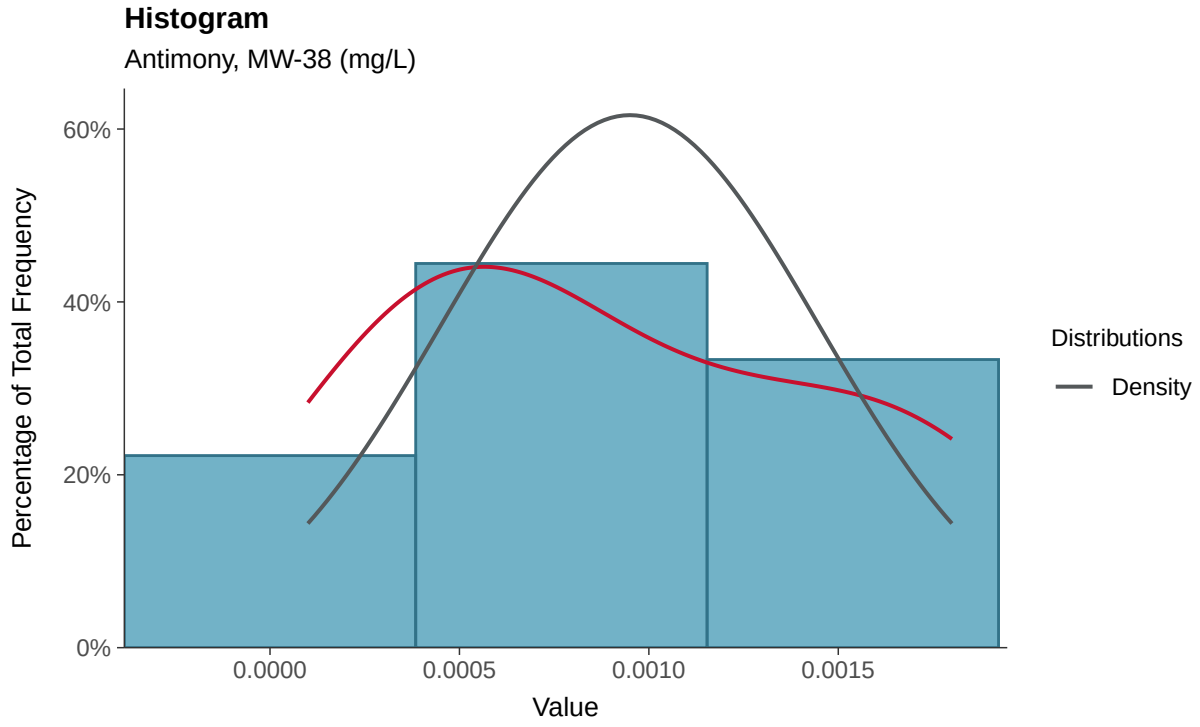
Total Dissolved Solids, MW-38 (mg/L)



Appendix IV: Antimony, MW-38

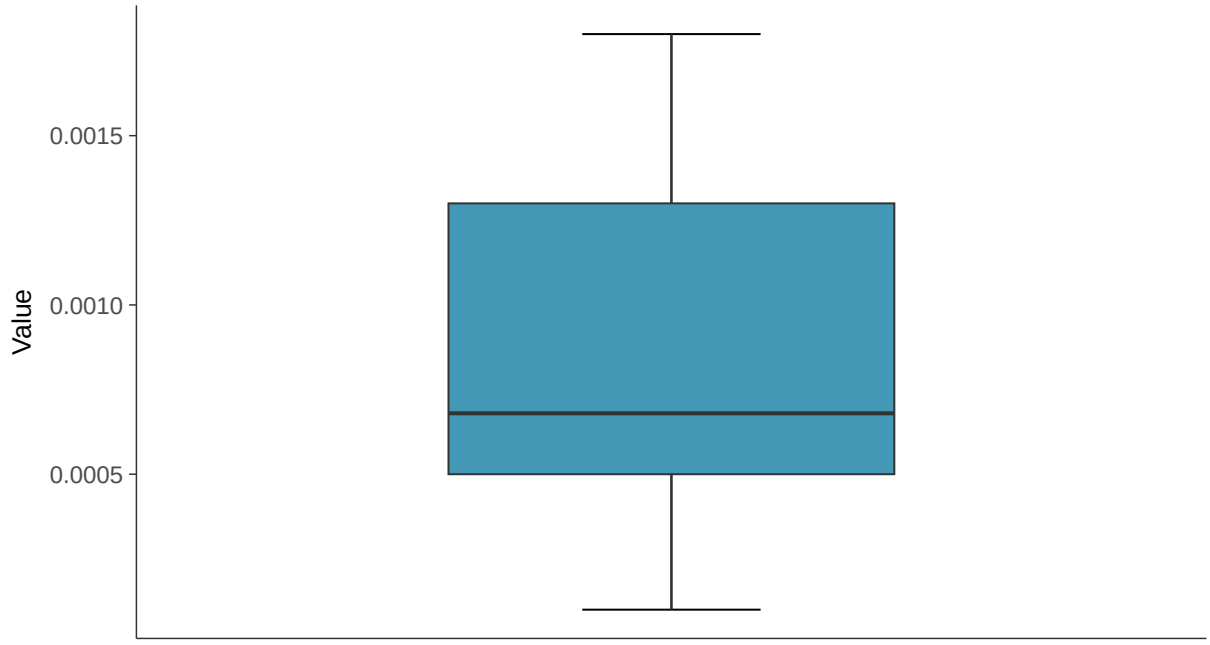
ID: 48_2_4_101





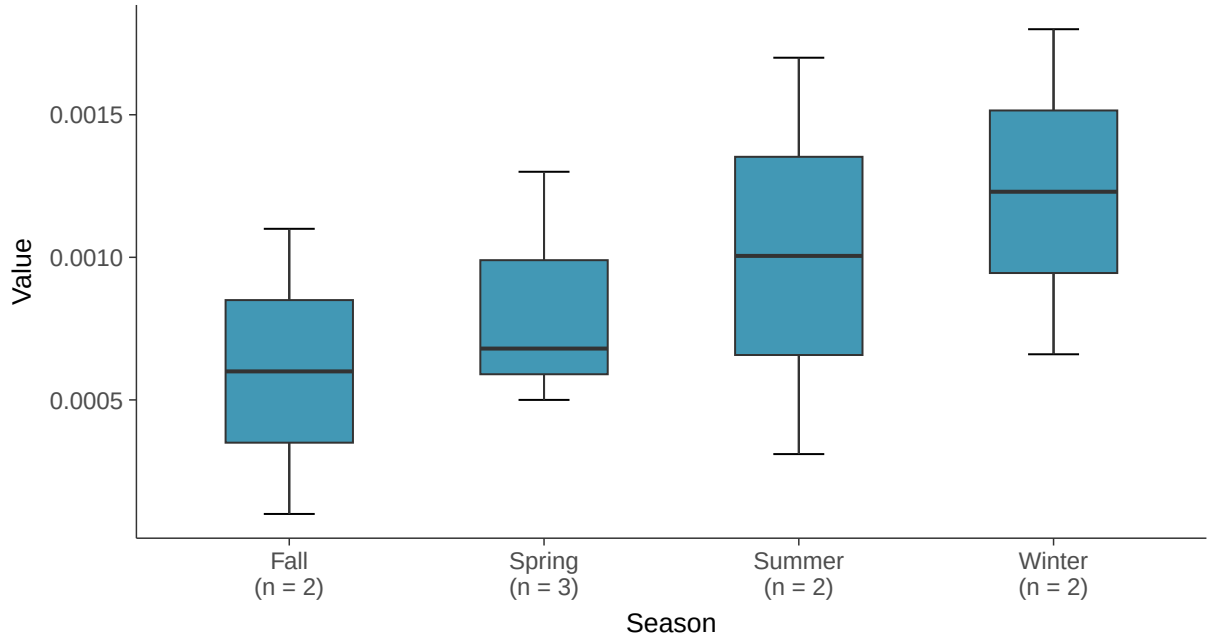
Boxplot

Antimony, MW-38 (mg/L)



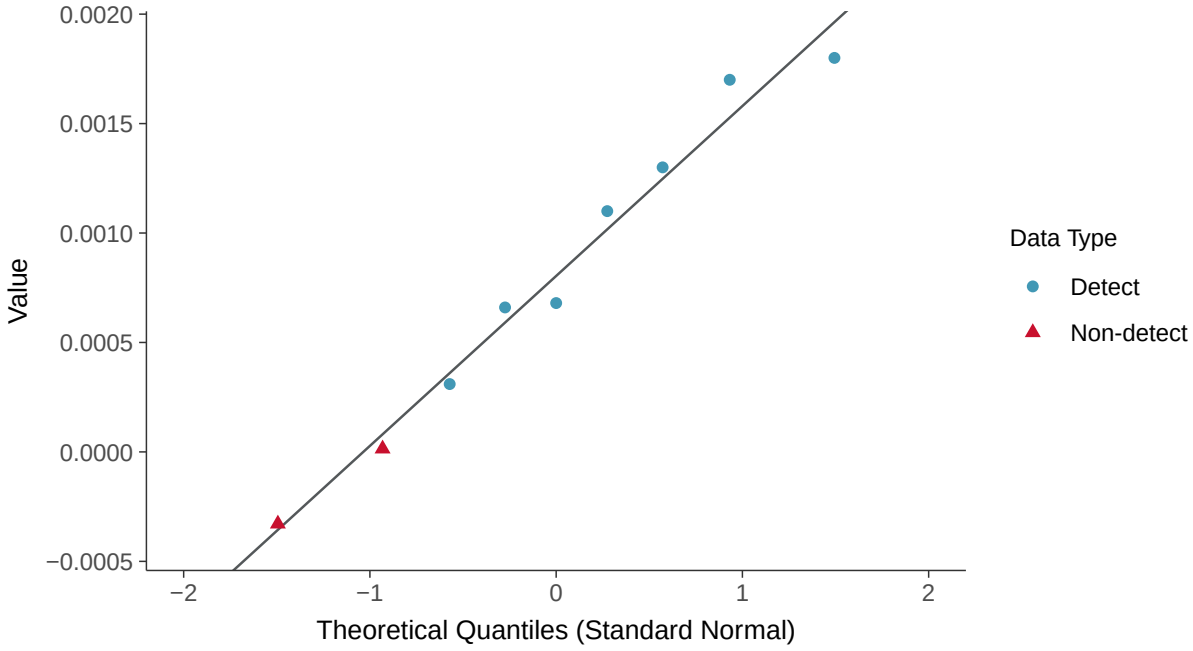
Boxplot by Season

Antimony, MW-38 (mg/L)



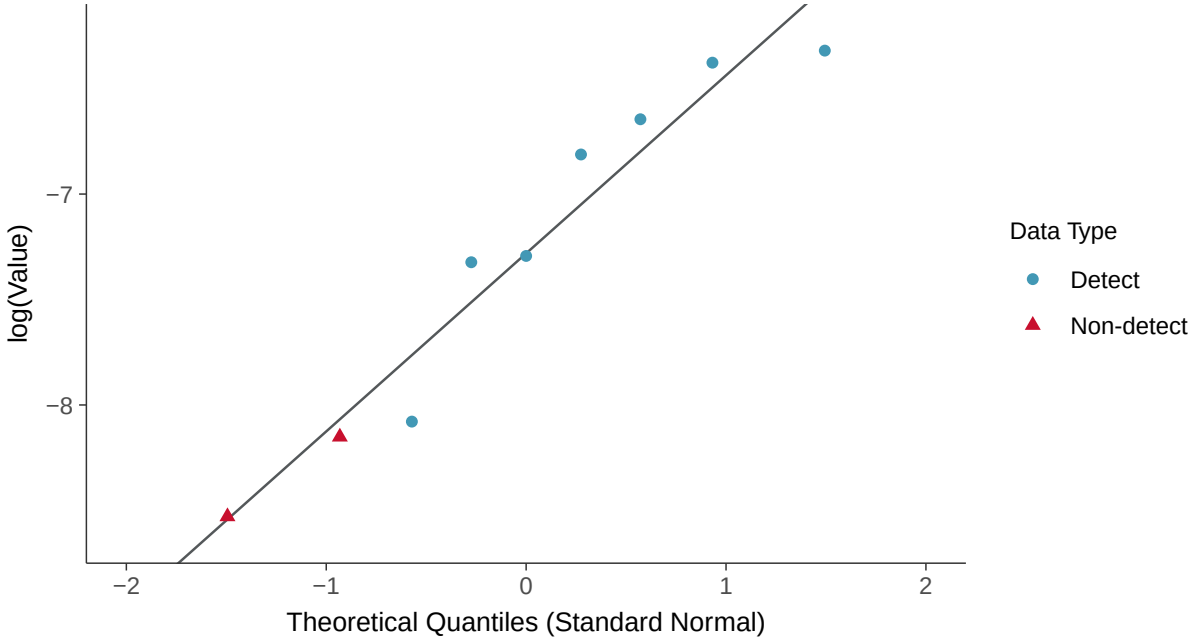
Normal Q-Q plot using ROS Imputed Estimates

Antimony, MW-38 (mg/L)



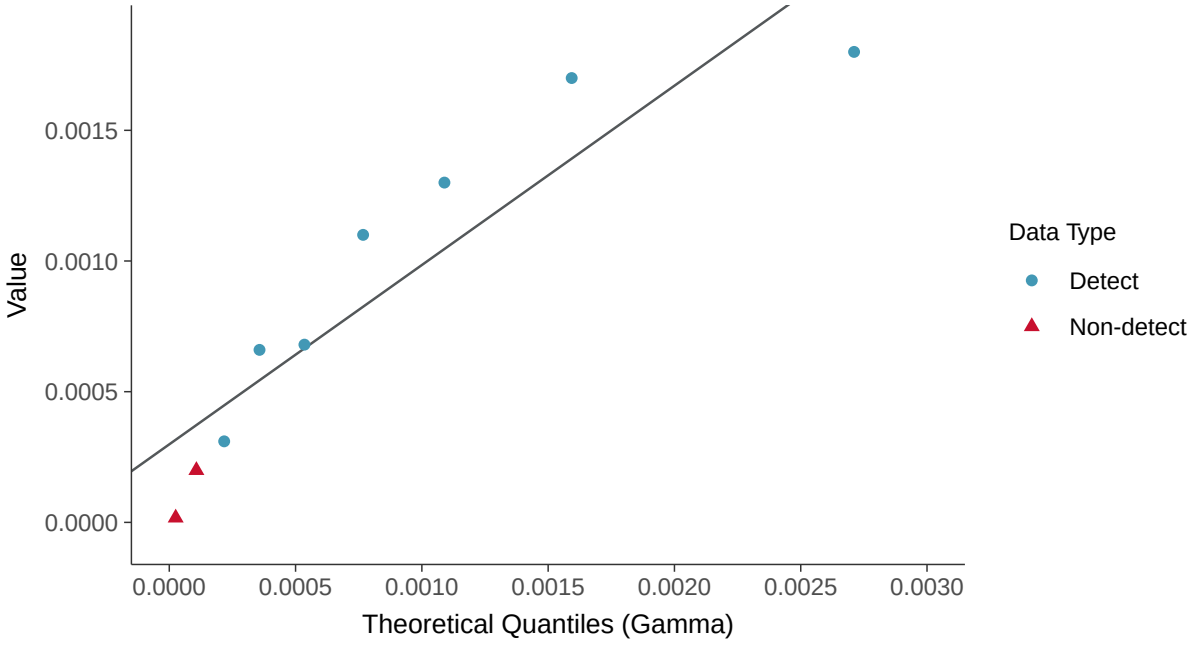
Lognormal Q-Q plot using ROS Imputed Estimates

Antimony, MW-38 (mg/L)



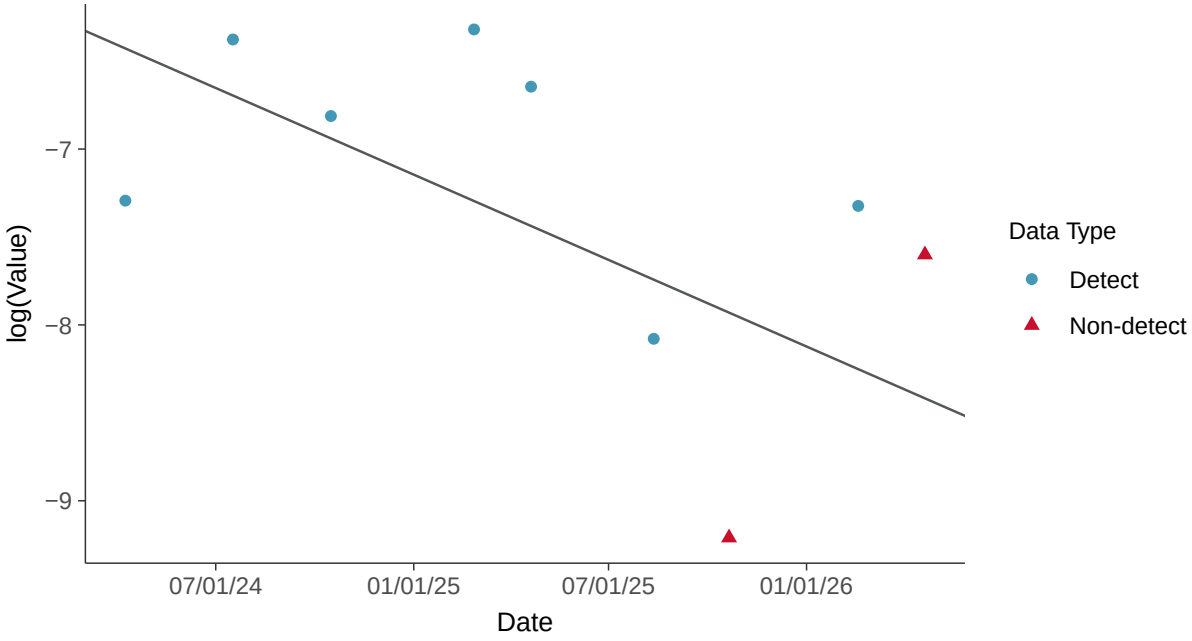
Gamma Q-Q plot using ROS Imputed Estimates

Antimony, MW-38 (mg/L)



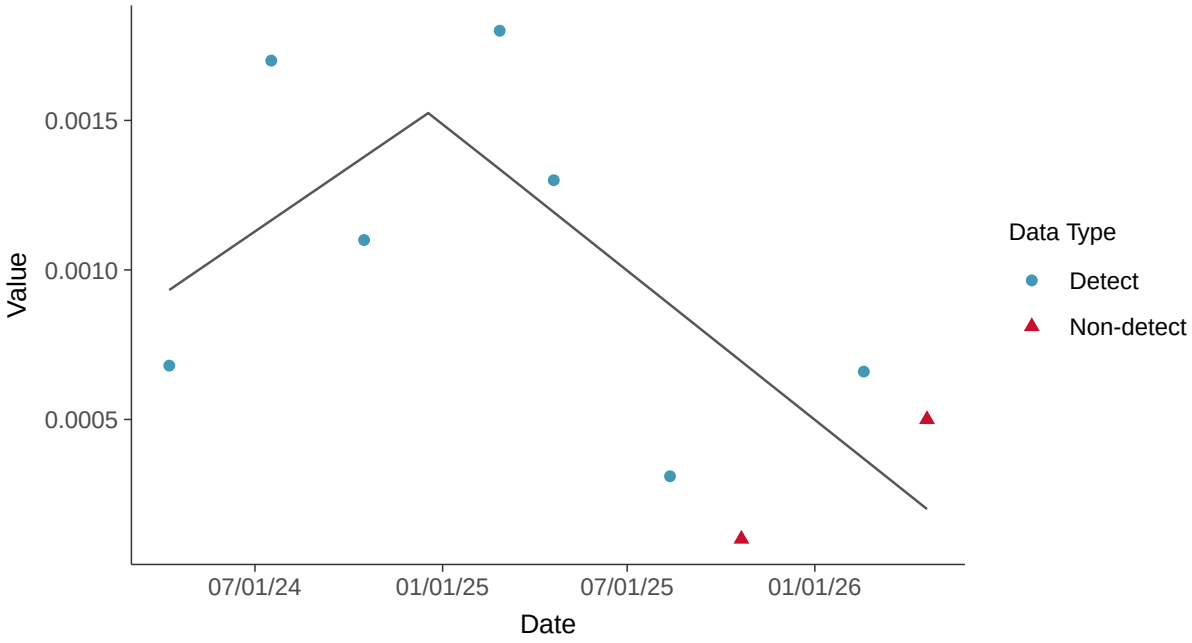
Trend Regression: Lognormal MLE

Antimony, MW-38 (mg/L)



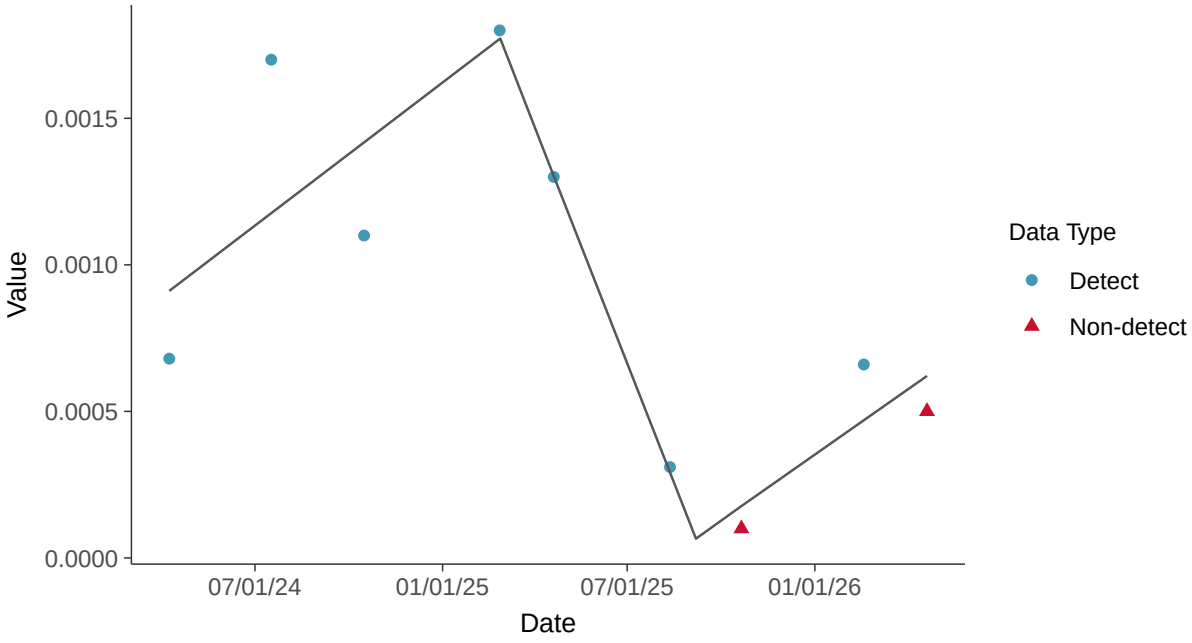
Trend Regression: Piecewise Linear-Linear

Antimony, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Antimony, MW-38 (mg/L)

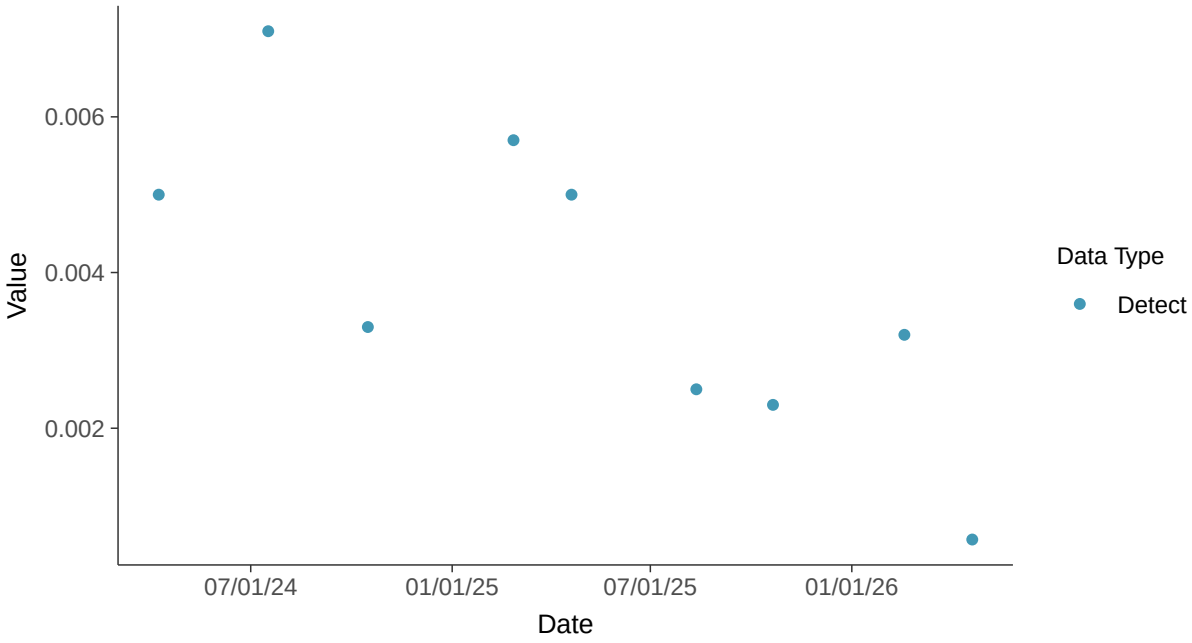


Appendix IV: Arsenic, MW-38

ID: 48_2_4_102

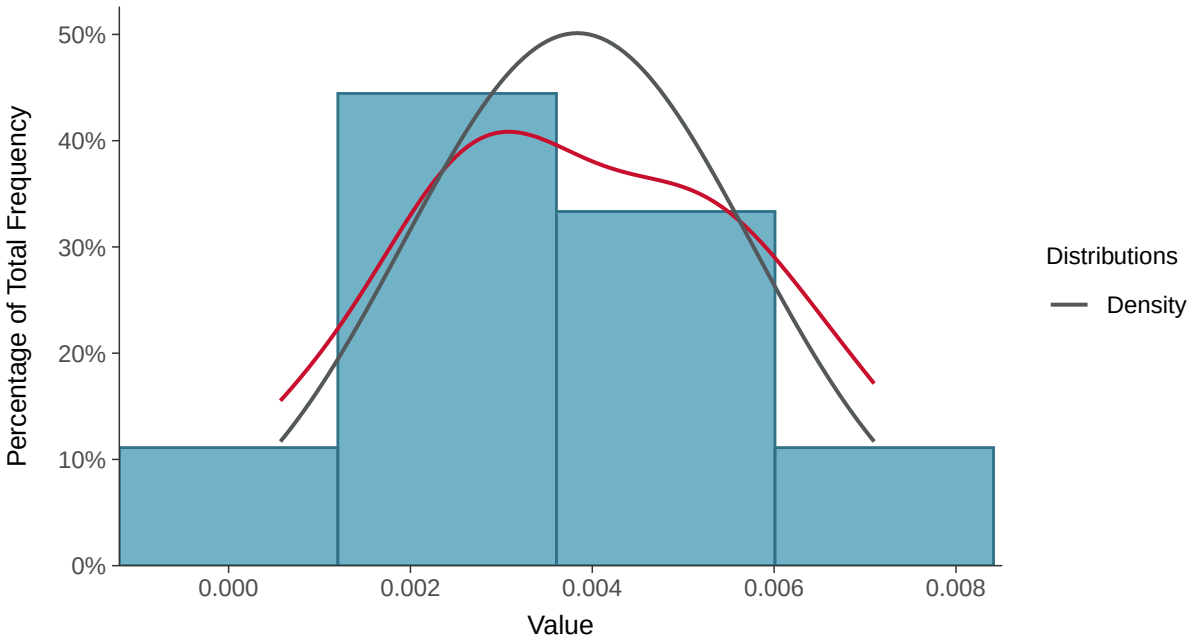
Scatter Plot

Arsenic, MW-38 (mg/L)



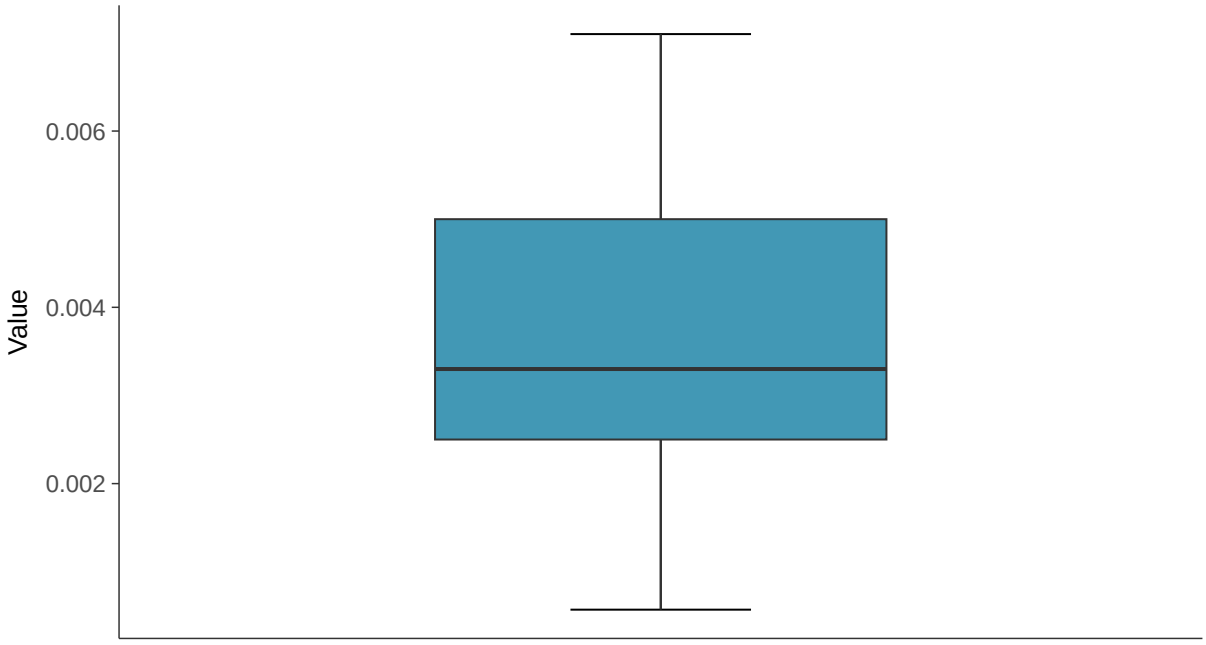
Histogram

Arsenic, MW-38 (mg/L)



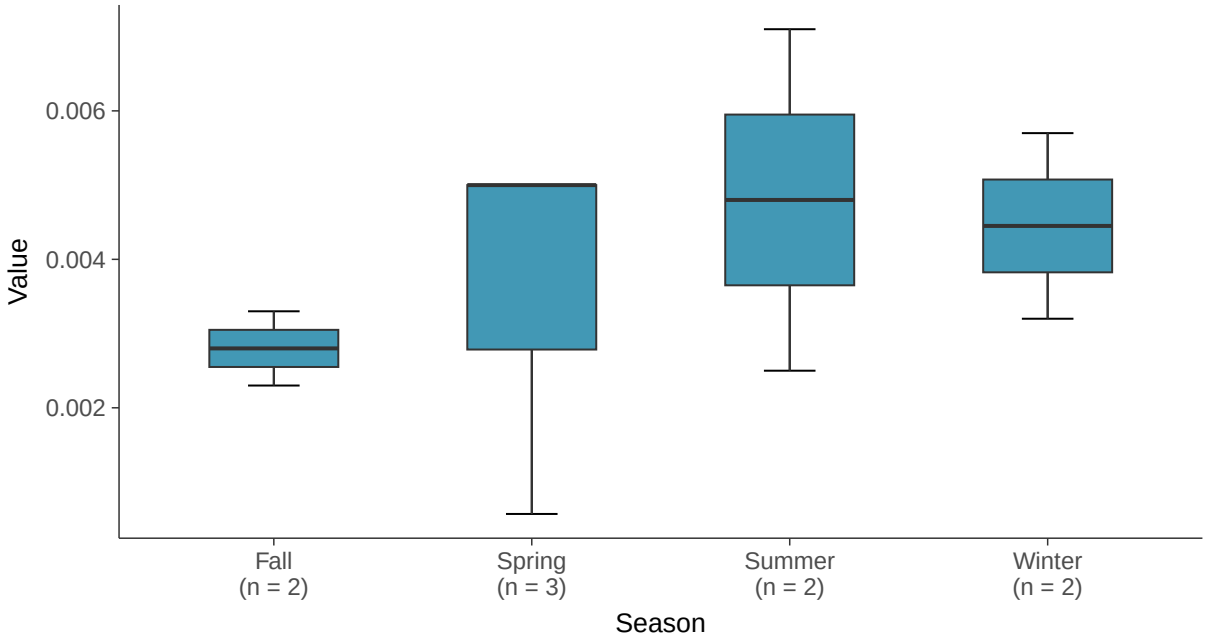
Boxplot

Arsenic, MW-38 (mg/L)



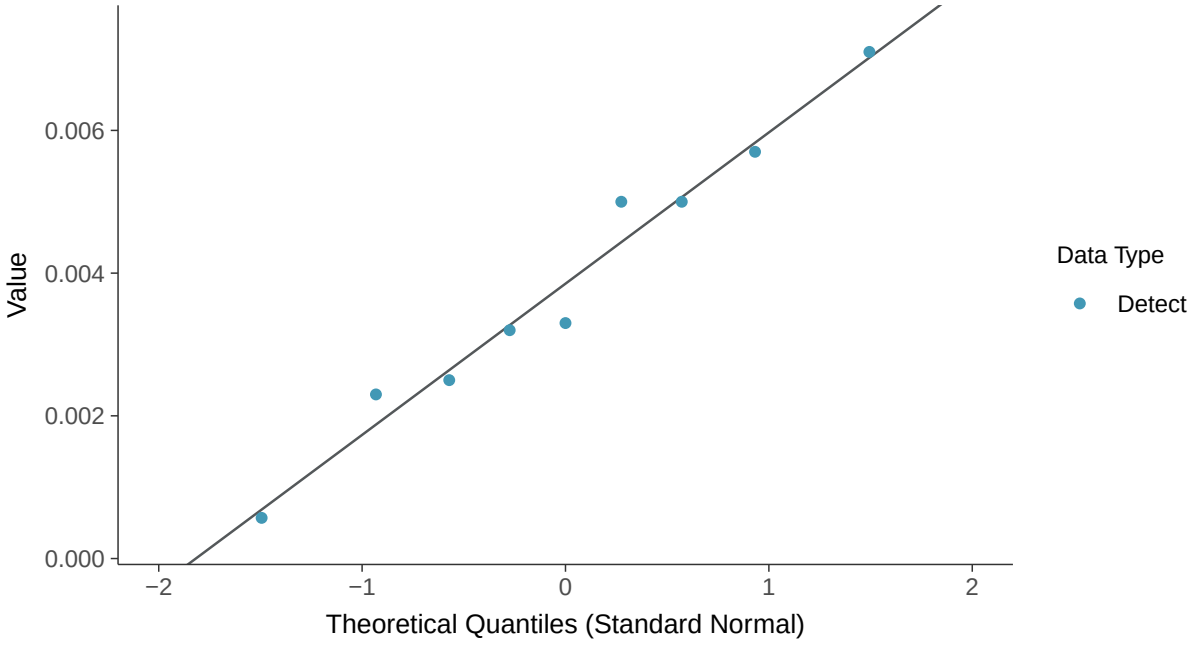
Boxplot by Season

Arsenic, MW-38 (mg/L)



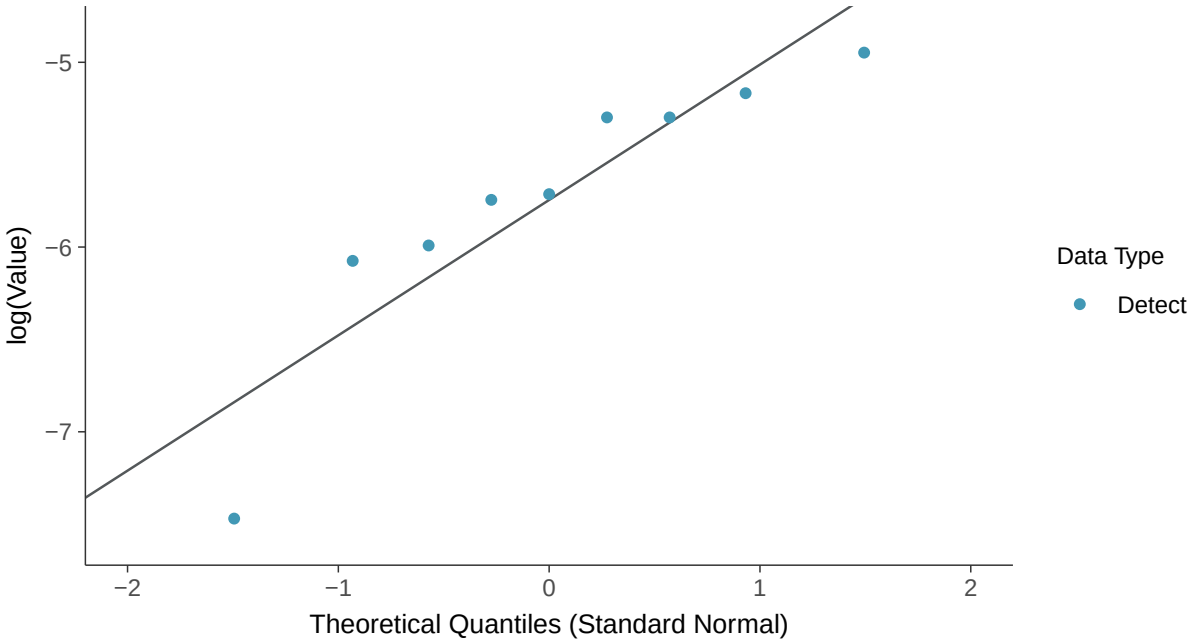
Normal Q-Q plot

Arsenic, MW-38 (mg/L)



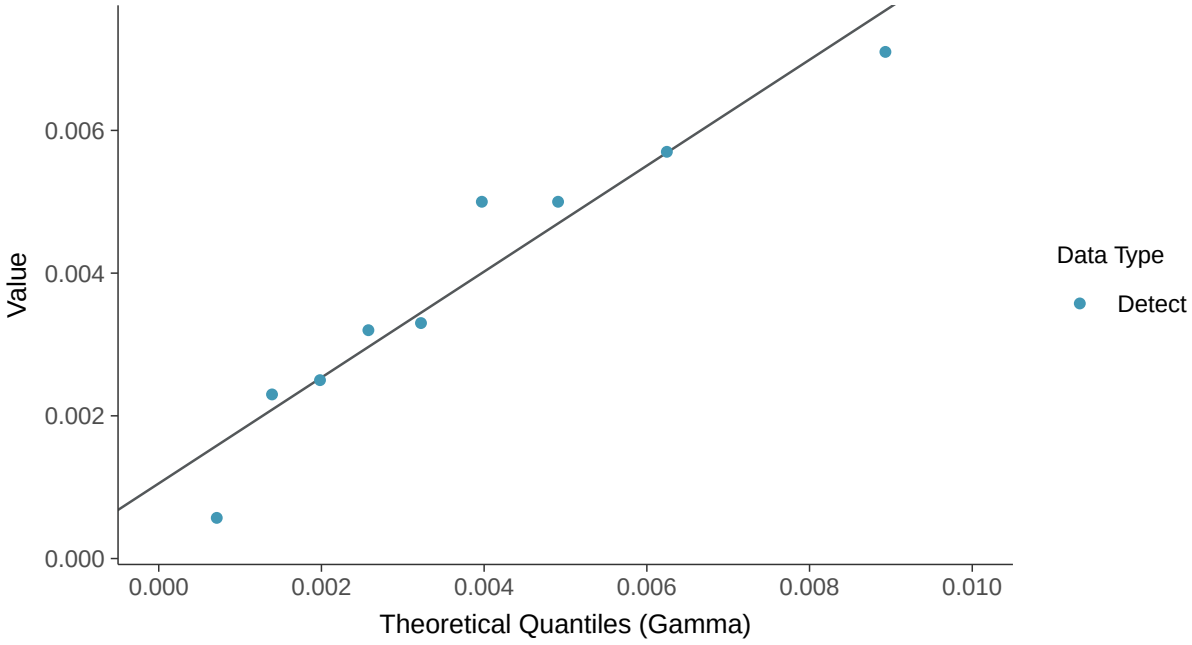
Lognormal Q-Q plot

Arsenic, MW-38 (mg/L)



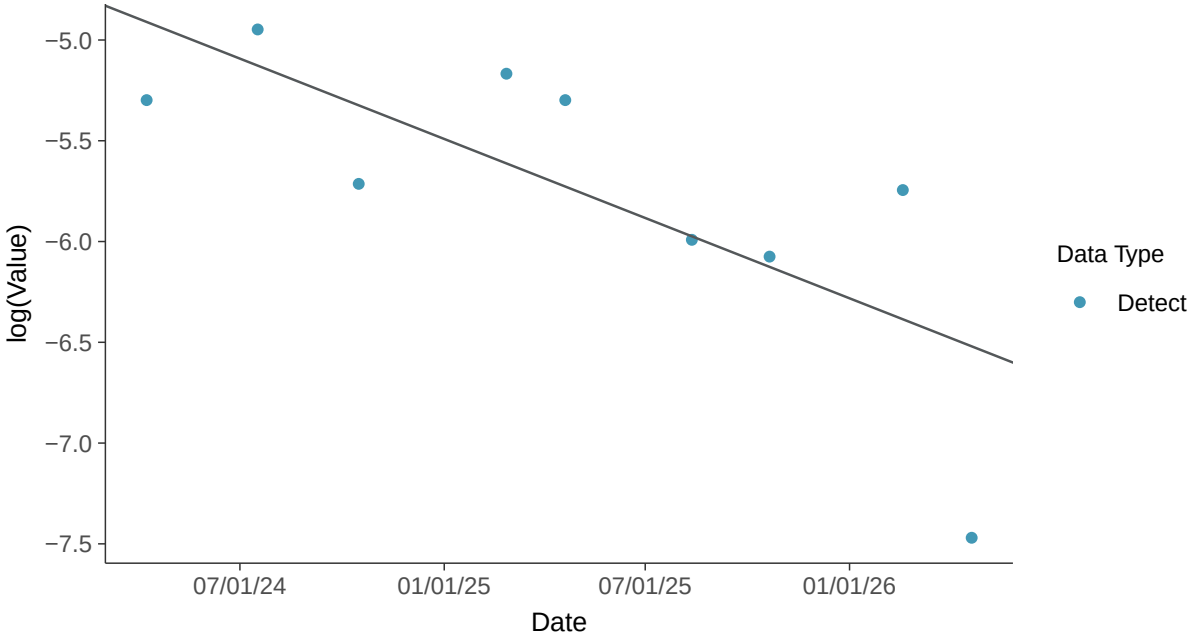
Gamma Q-Q plot

Arsenic, MW-38 (mg/L)



Trend Regression: Lognormal MLE

Arsenic, MW-38 (mg/L)

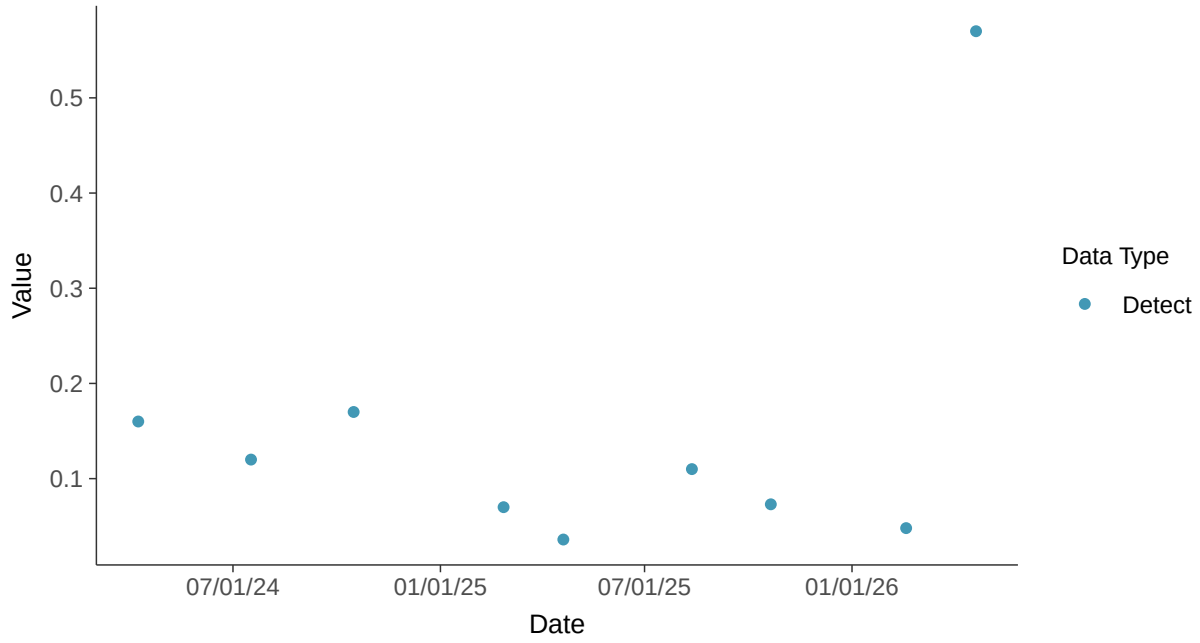


Appendix IV: Barium, MW-38

ID: 48_2_4_103

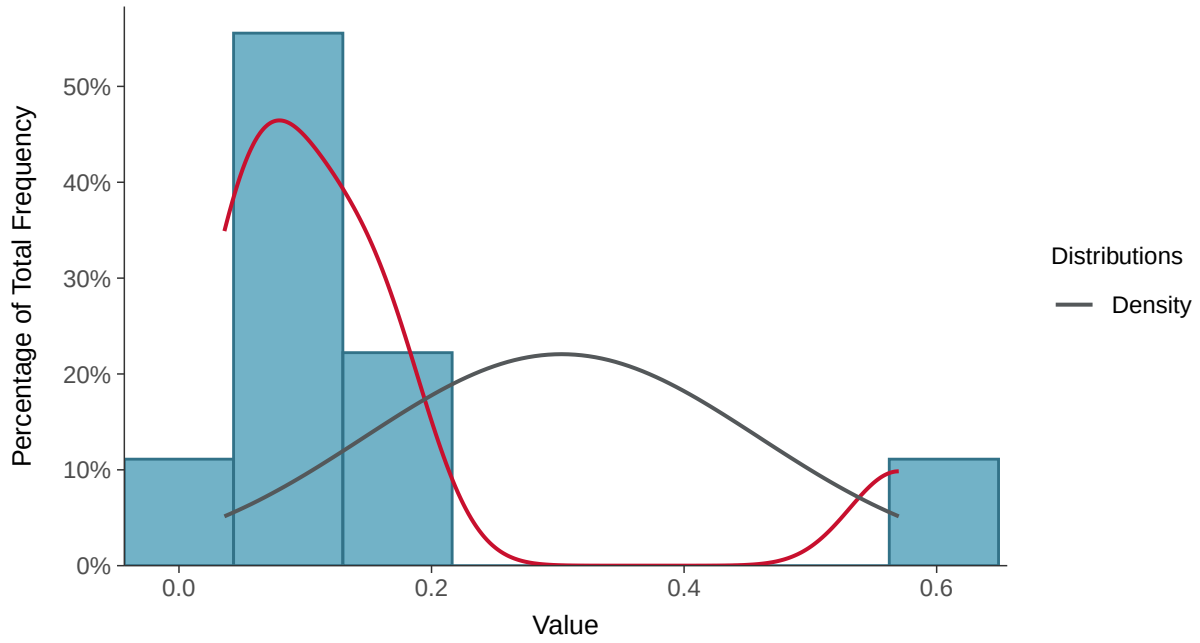
Scatter Plot

Barium, MW-38 (mg/L)



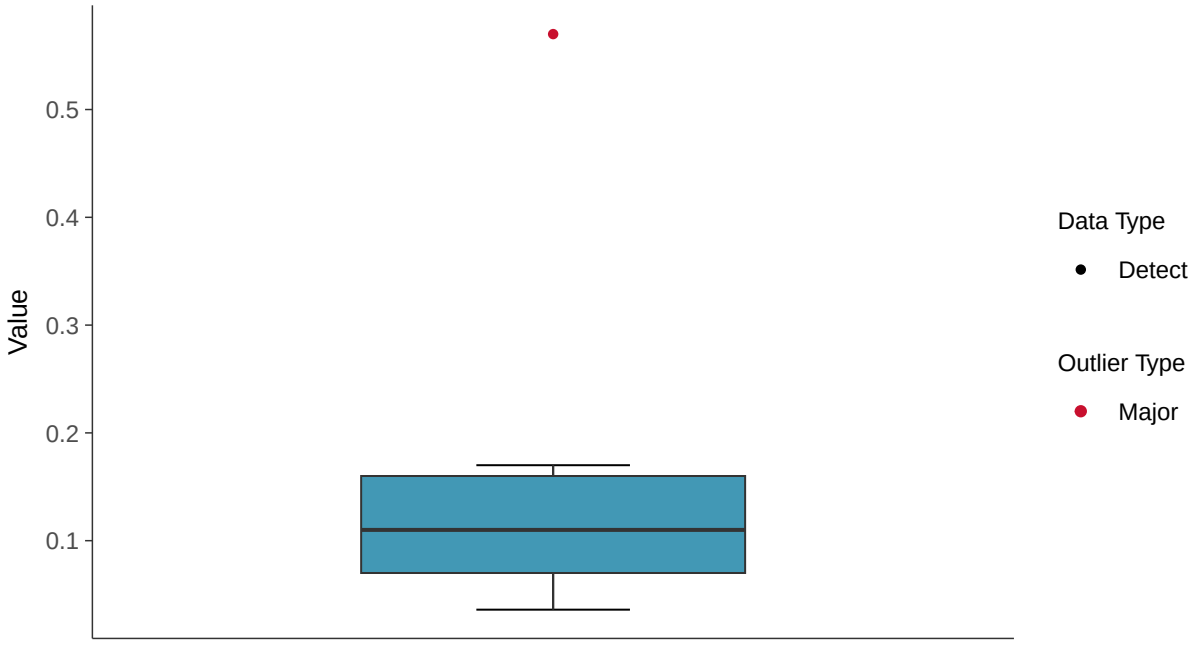
Histogram

Barium, MW-38 (mg/L)



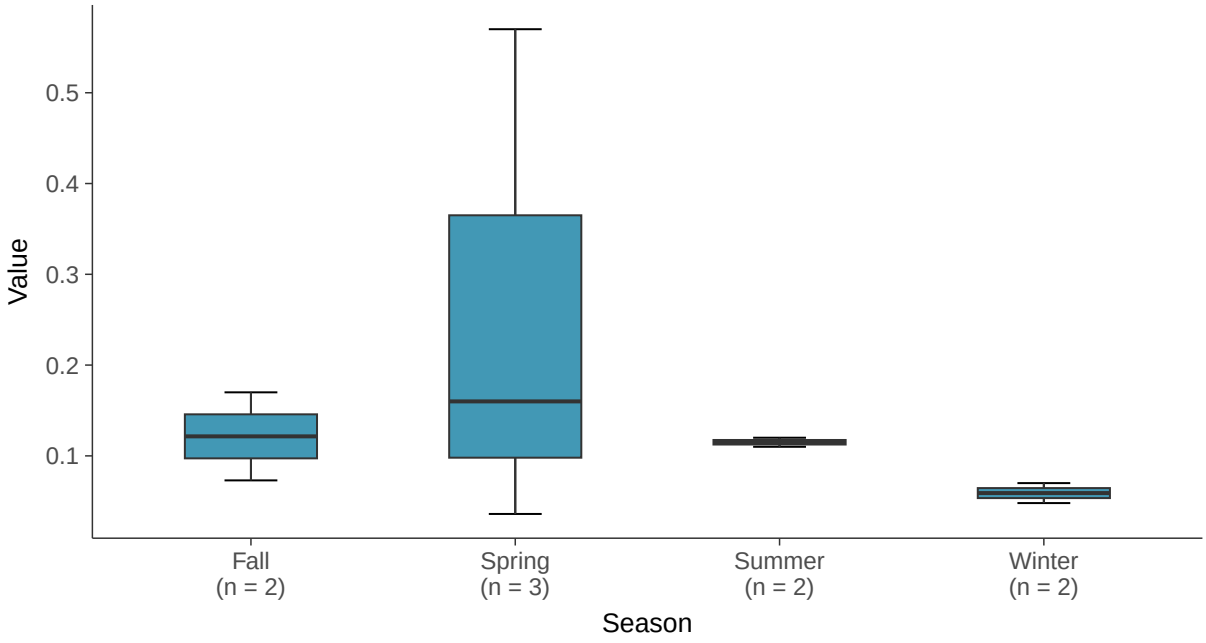
Boxplot

Barium, MW-38 (mg/L)



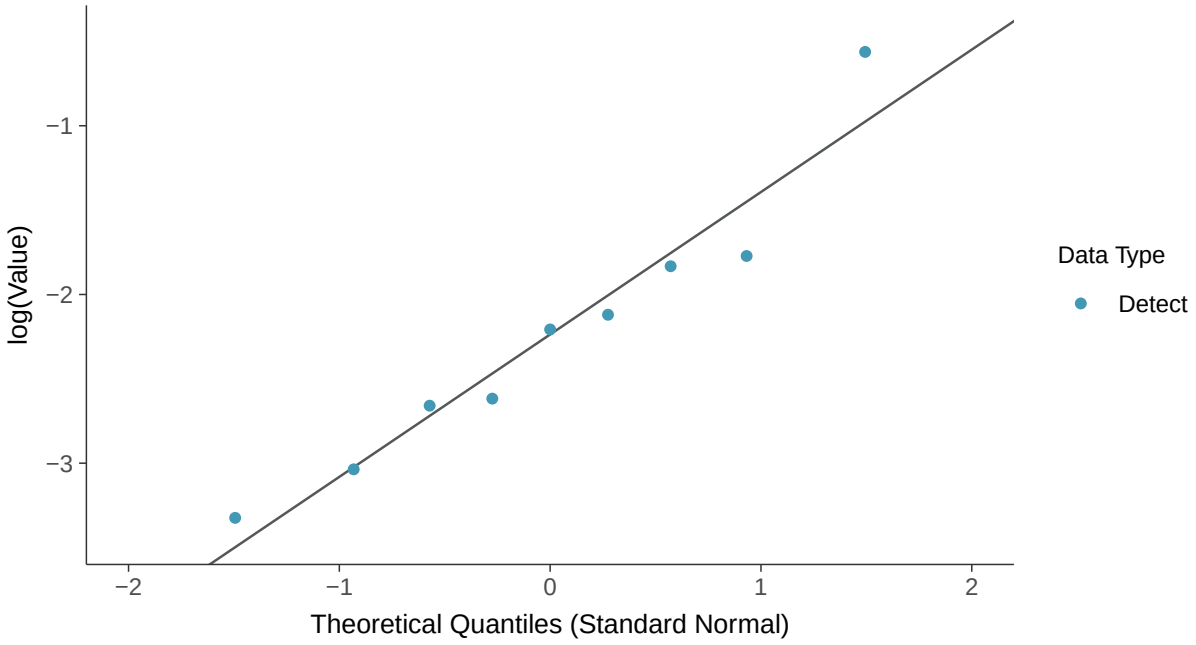
Boxplot by Season

Barium, MW-38 (mg/L)



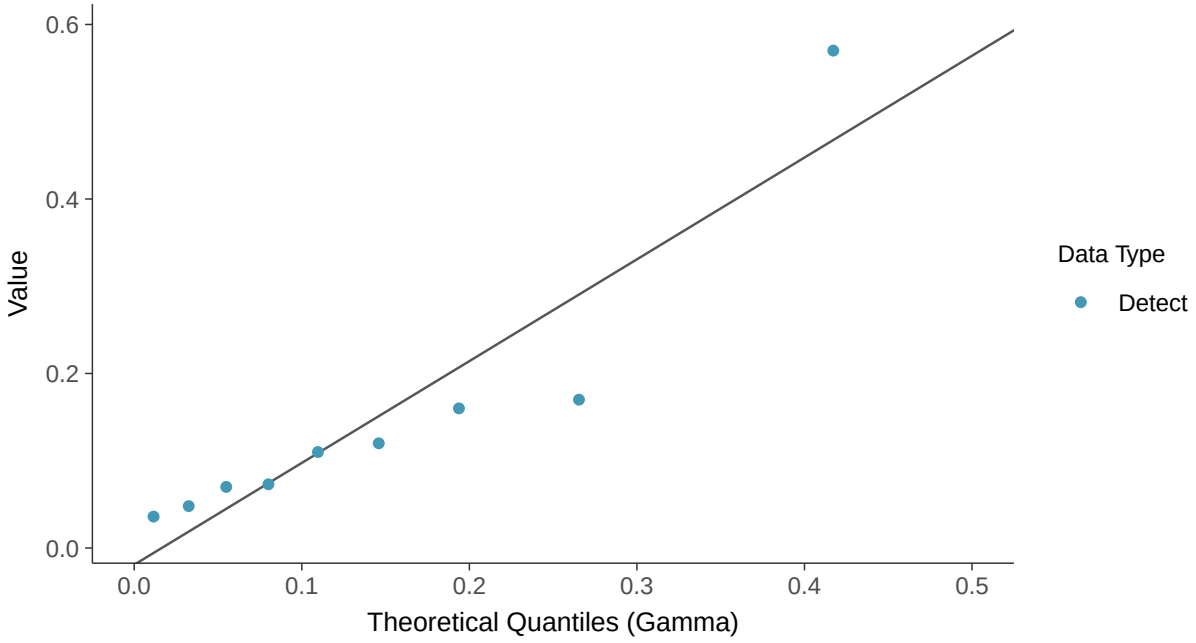
Lognormal Q-Q plot

Barium, MW-38 (mg/L)



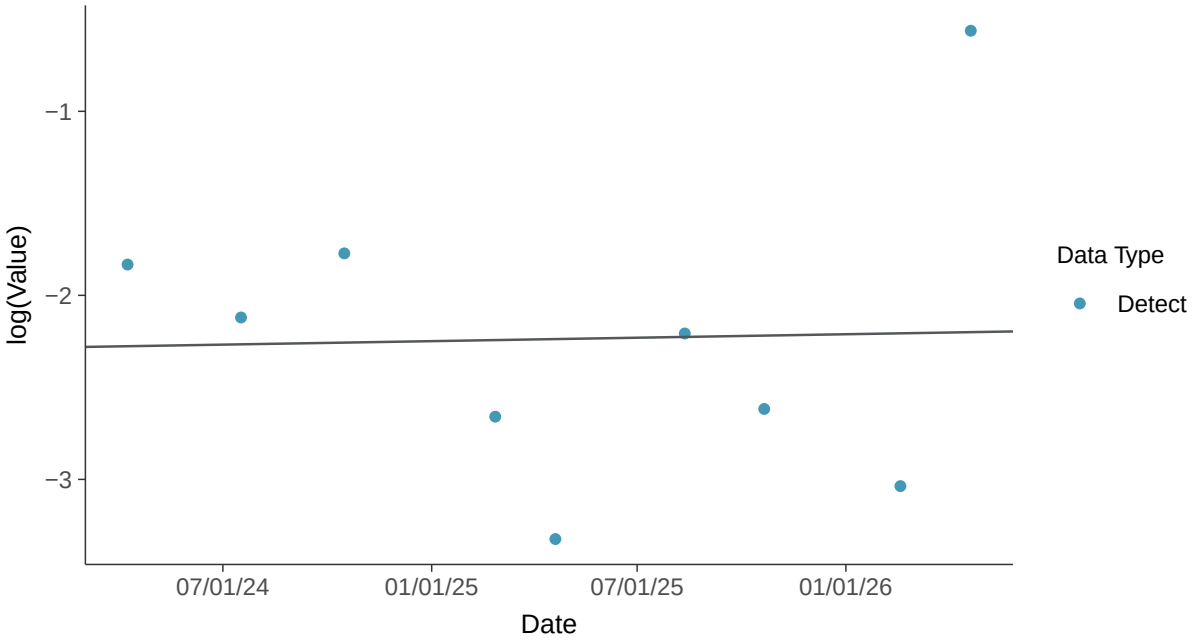
Gamma Q-Q plot

Barium, MW-38 (mg/L)



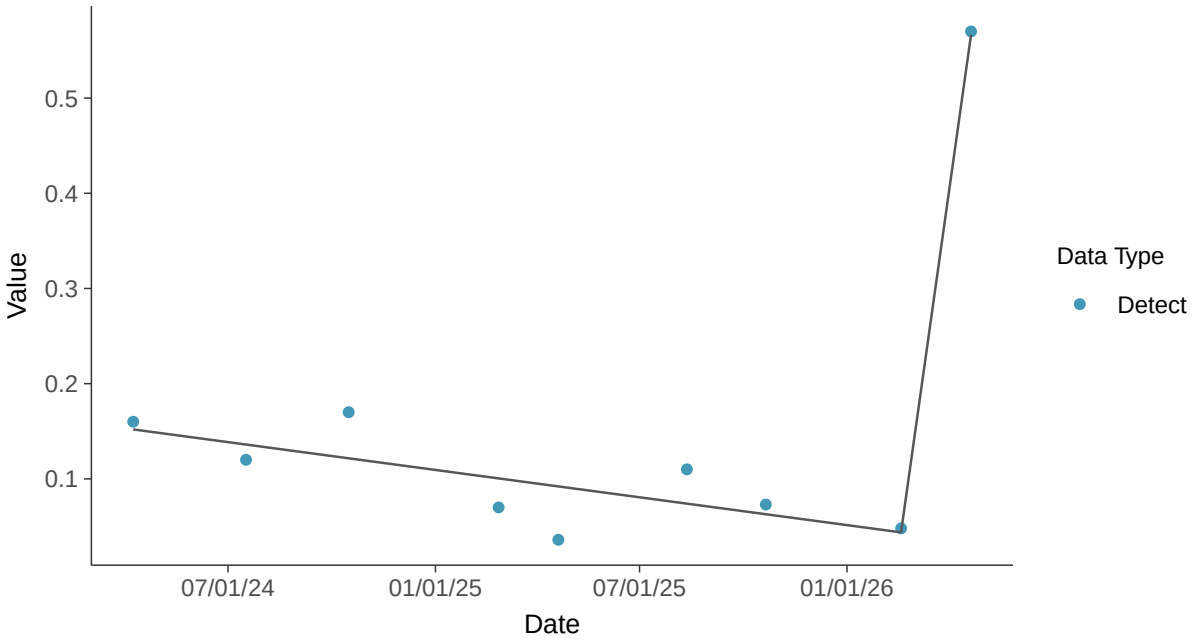
Trend Regression: Lognormal MLE

Barium, MW-38 (mg/L)



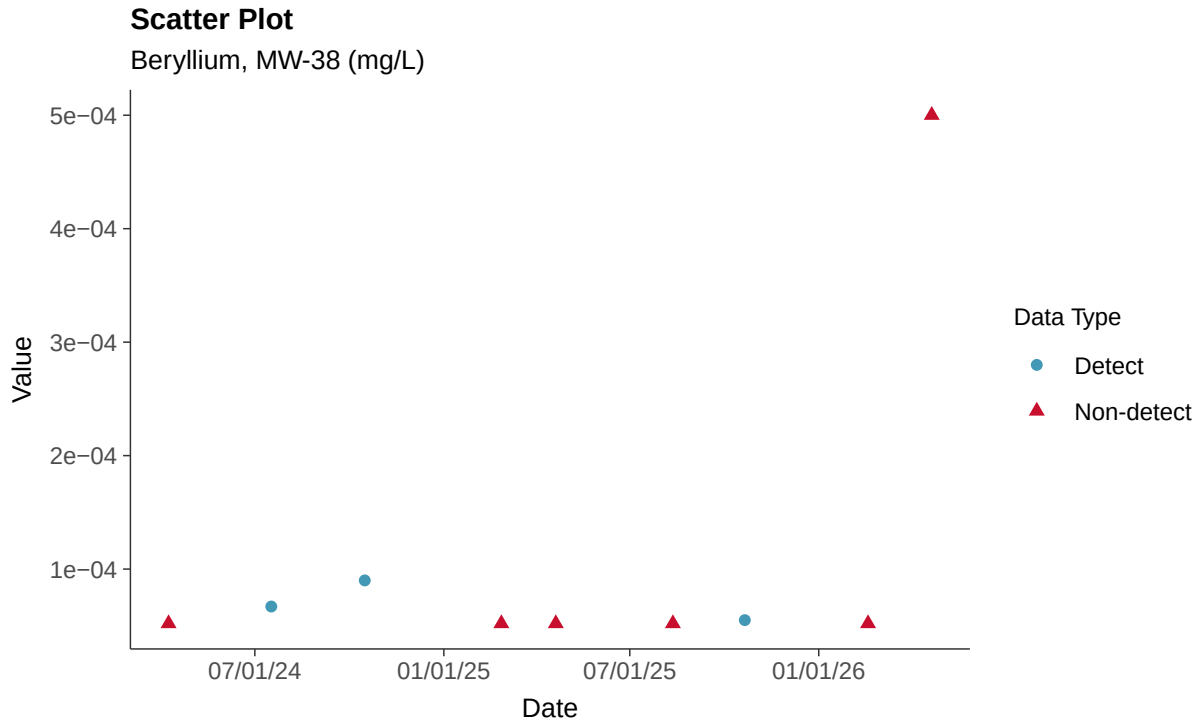
Trend Regression: Piecewise Linear-Linear

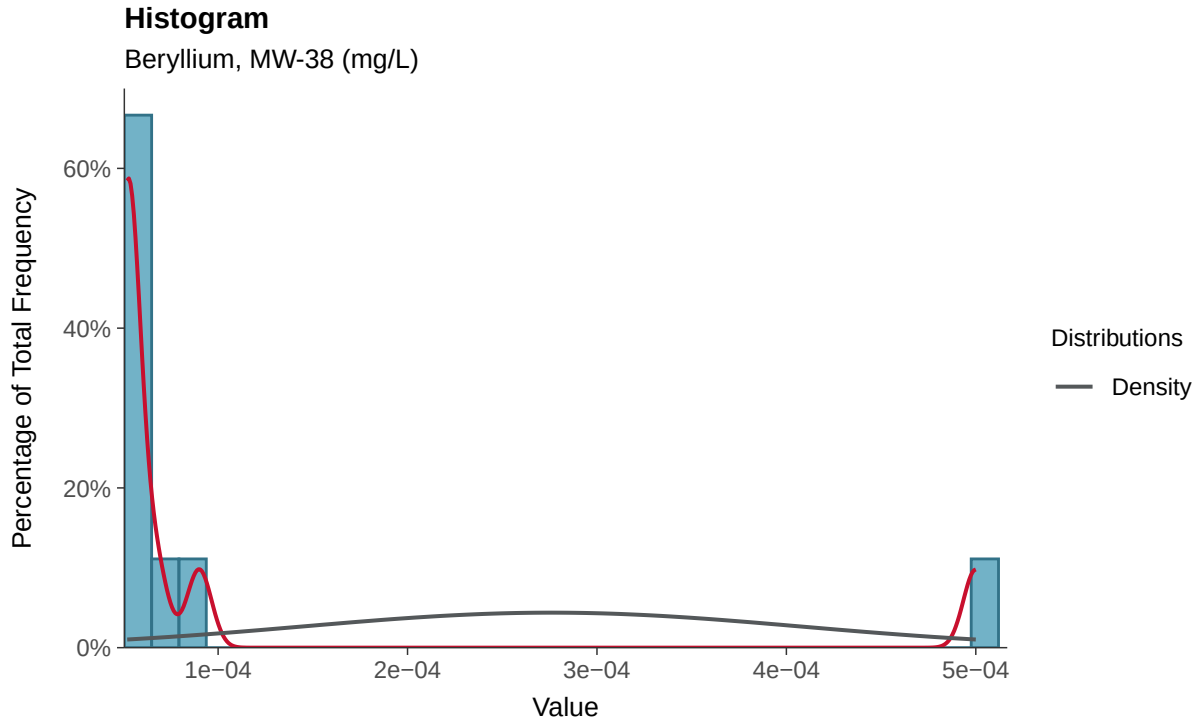
Barium, MW-38 (mg/L)



Appendix IV: Beryllium, MW-38

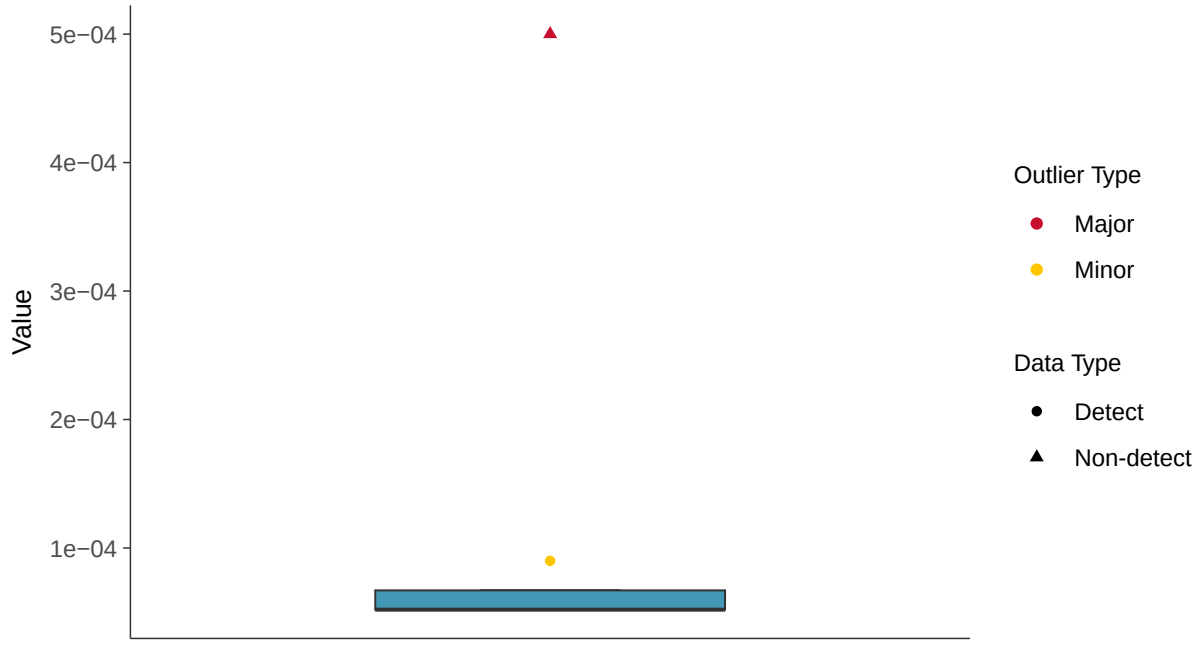
ID: 48_2_4_104





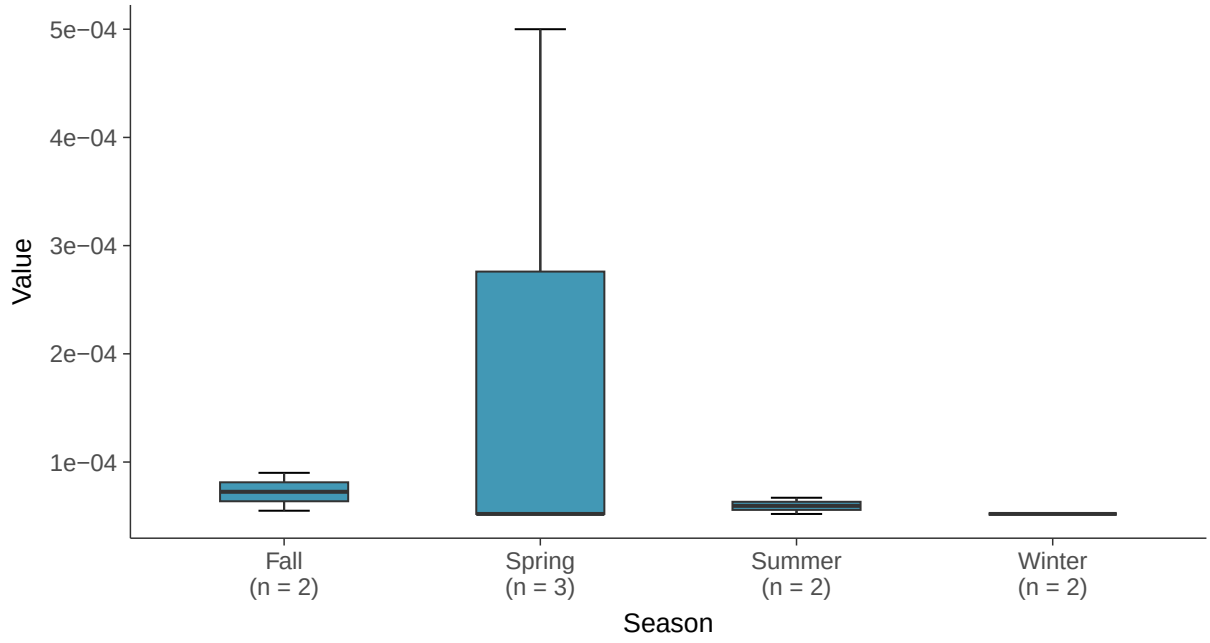
Boxplot

Beryllium, MW-38 (mg/L)



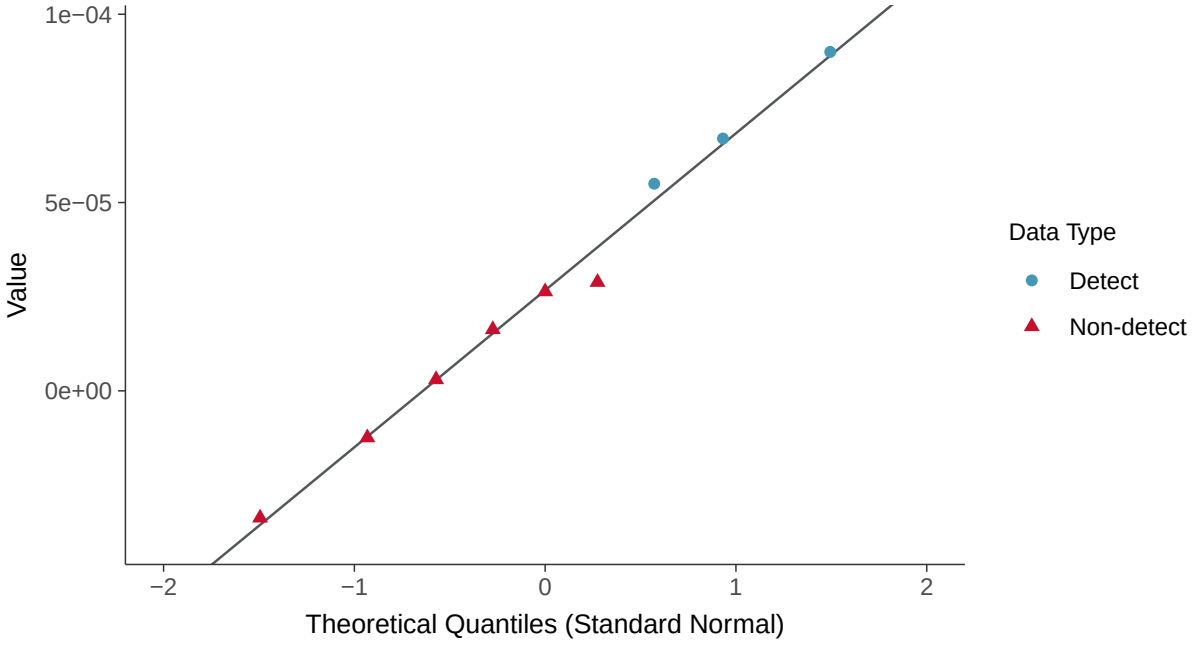
Boxplot by Season

Beryllium, MW-38 (mg/L)



Normal Q-Q plot using ROS Imputed Estimates

Beryllium, MW-38 (mg/L)

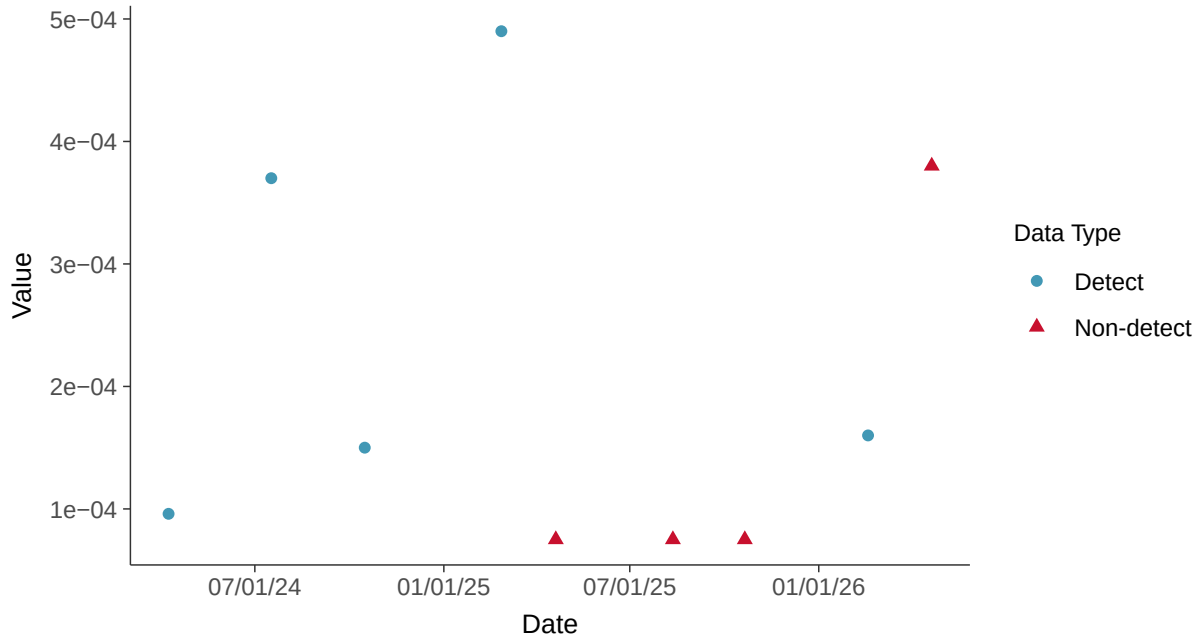


Appendix IV: Cadmium, MW-38

ID: 48_2_4_106

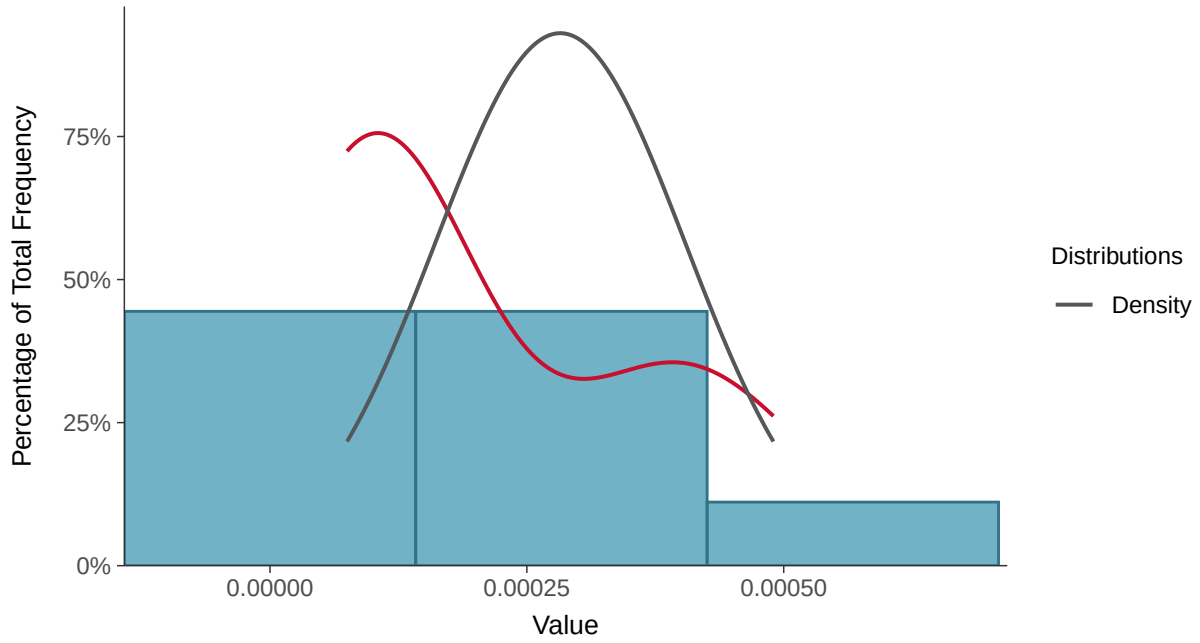
Scatter Plot

Cadmium, MW-38 (mg/L)



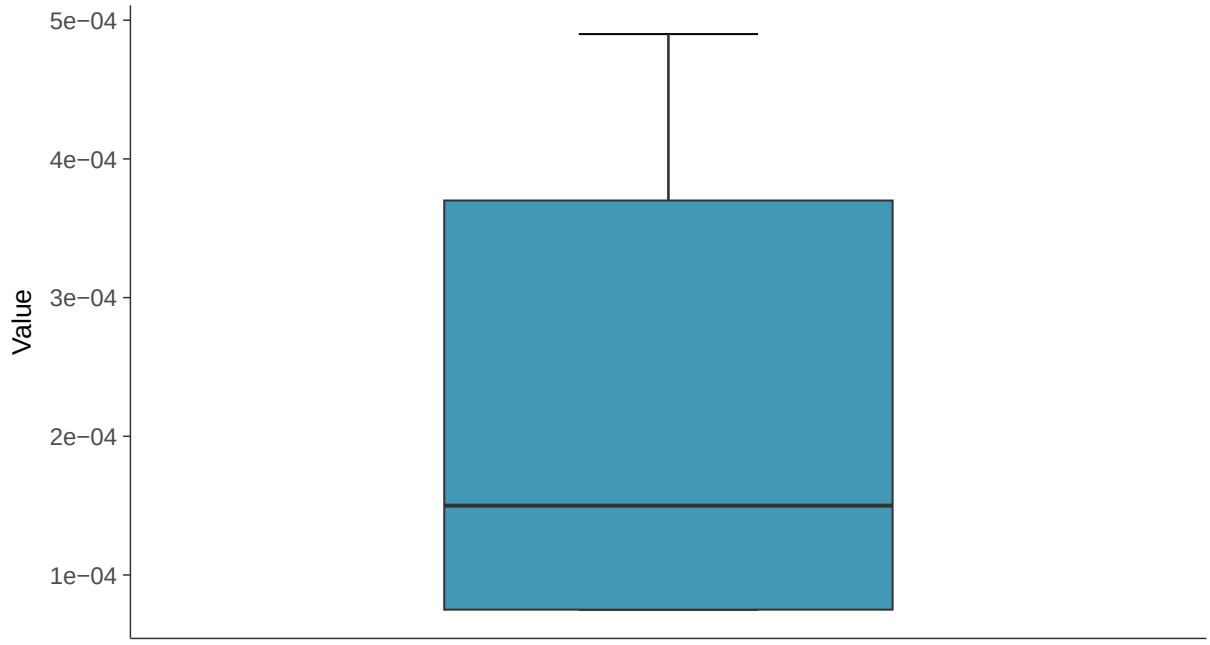
Histogram

Cadmium, MW-38 (mg/L)



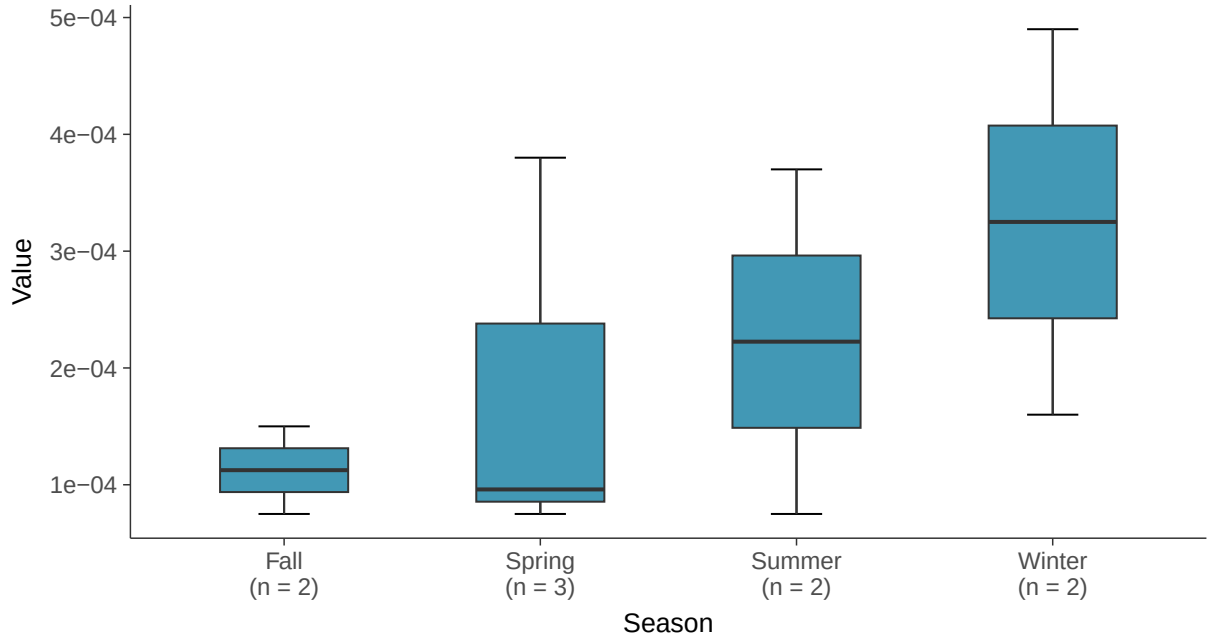
Boxplot

Cadmium, MW-38 (mg/L)



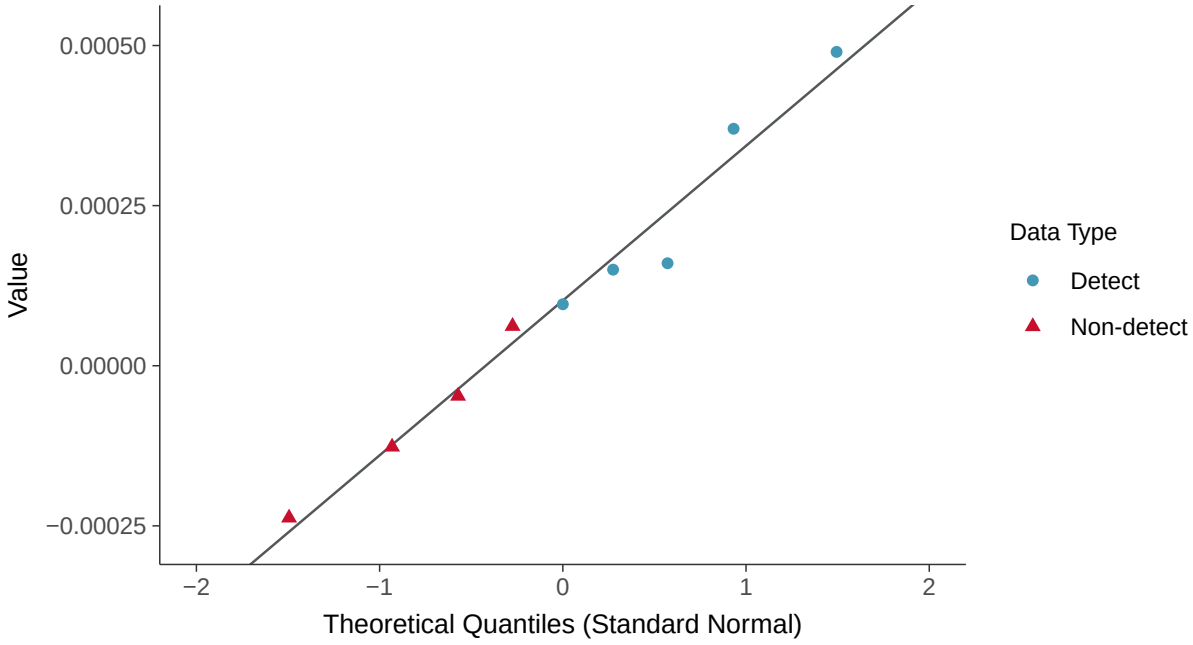
Boxplot by Season

Cadmium, MW-38 (mg/L)



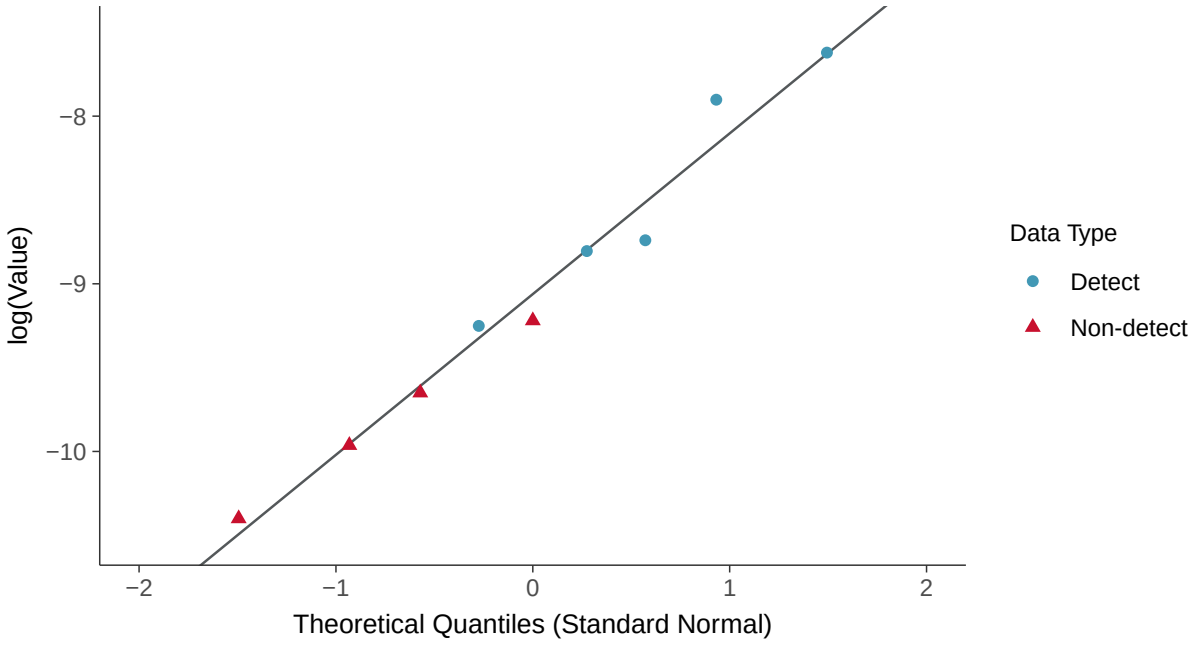
Normal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-38 (mg/L)



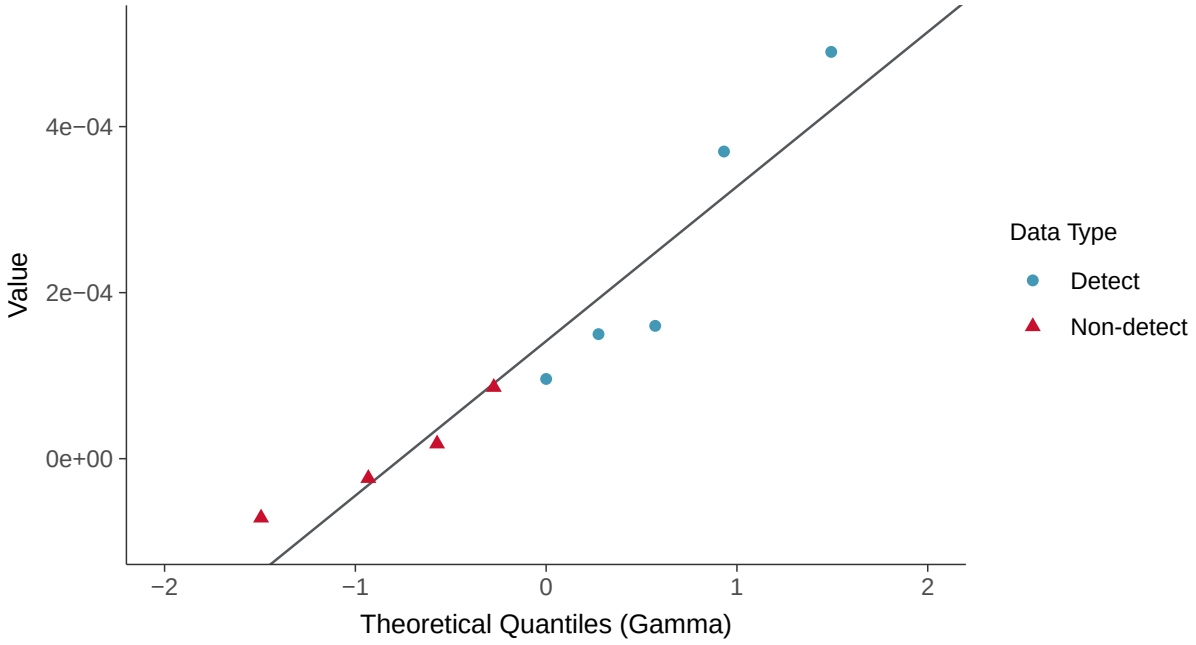
Lognormal Q-Q plot using ROS Imputed Estimates

Cadmium, MW-38 (mg/L)



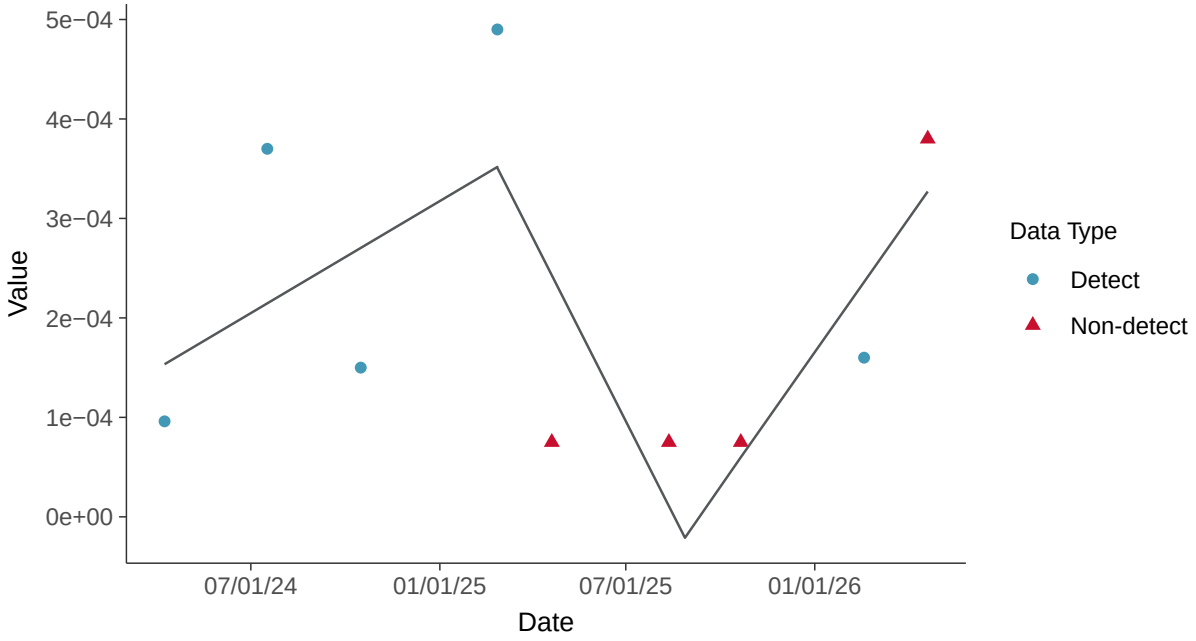
Gamma Q-Q plot using ROS Imputed Estimates

Cadmium, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cadmium, MW-38 (mg/L)

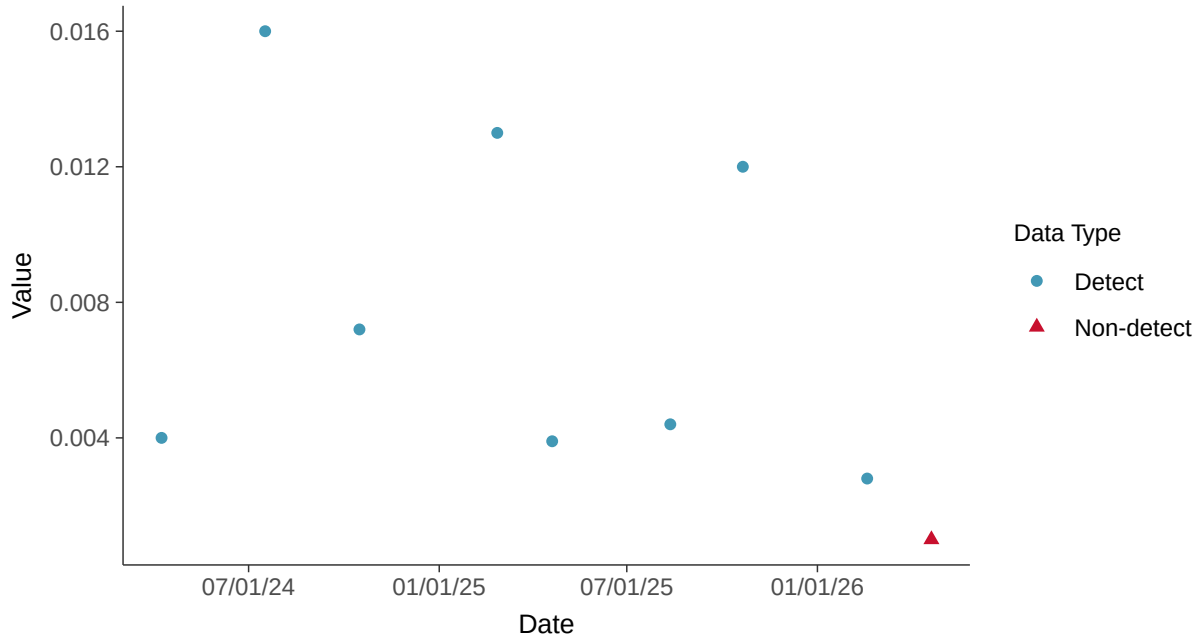


Appendix IV: Chromium, Total, MW-38

ID: 48_2_4_109

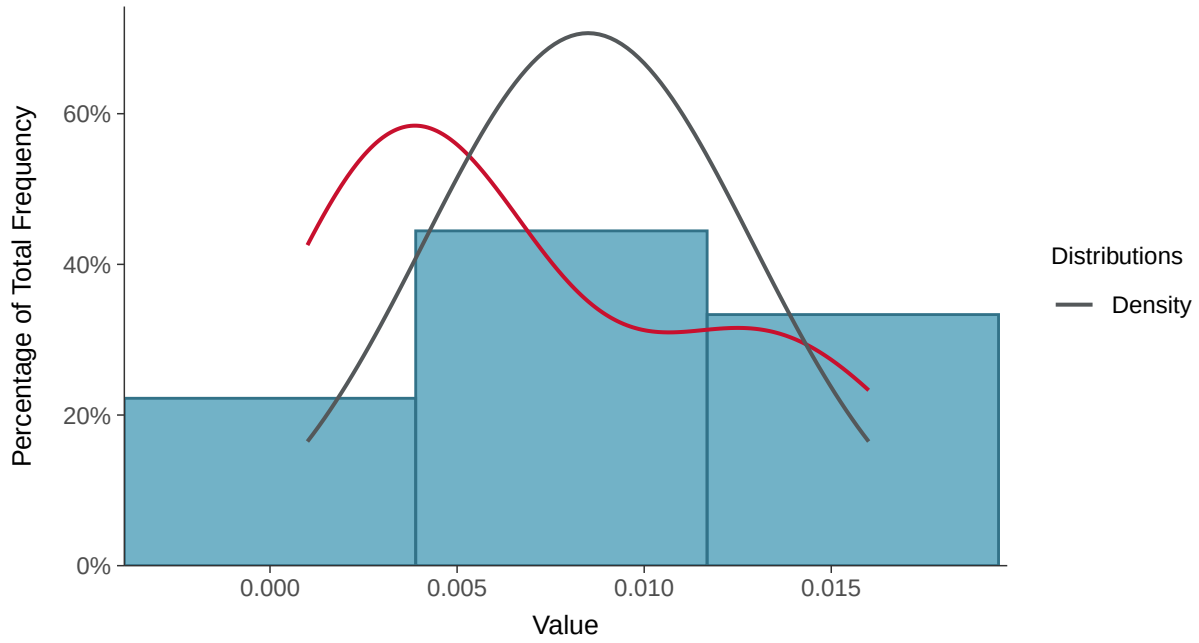
Scatter Plot

Chromium, Total, MW-38 (mg/L)



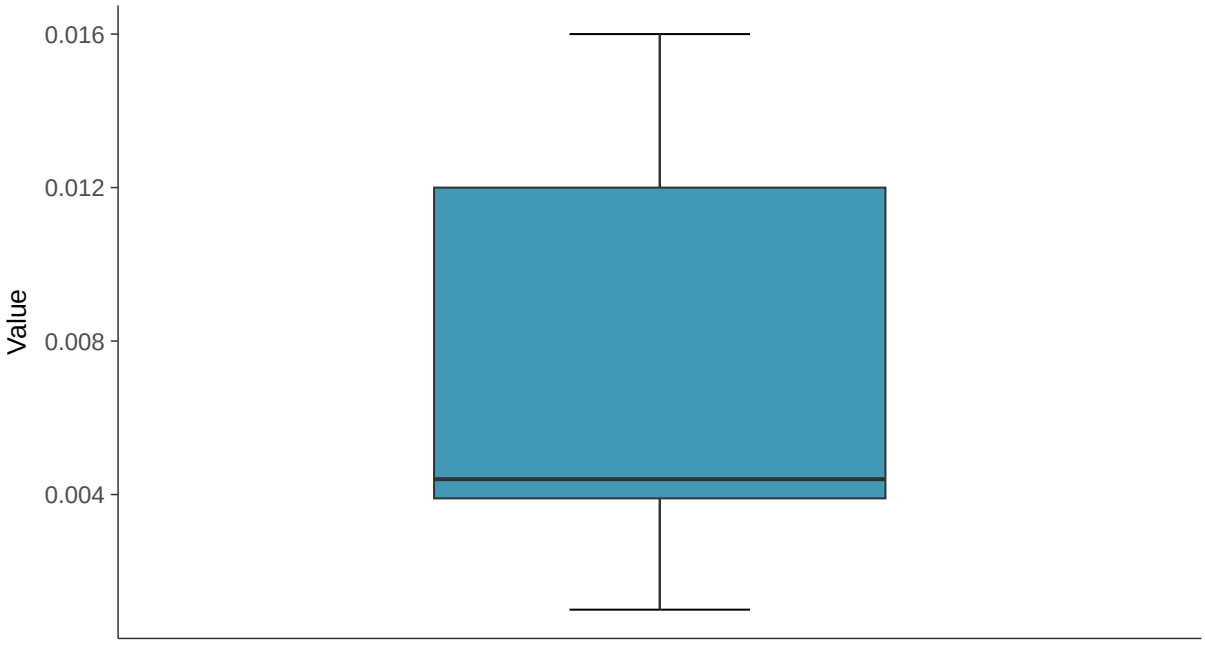
Histogram

Chromium, Total, MW-38 (mg/L)



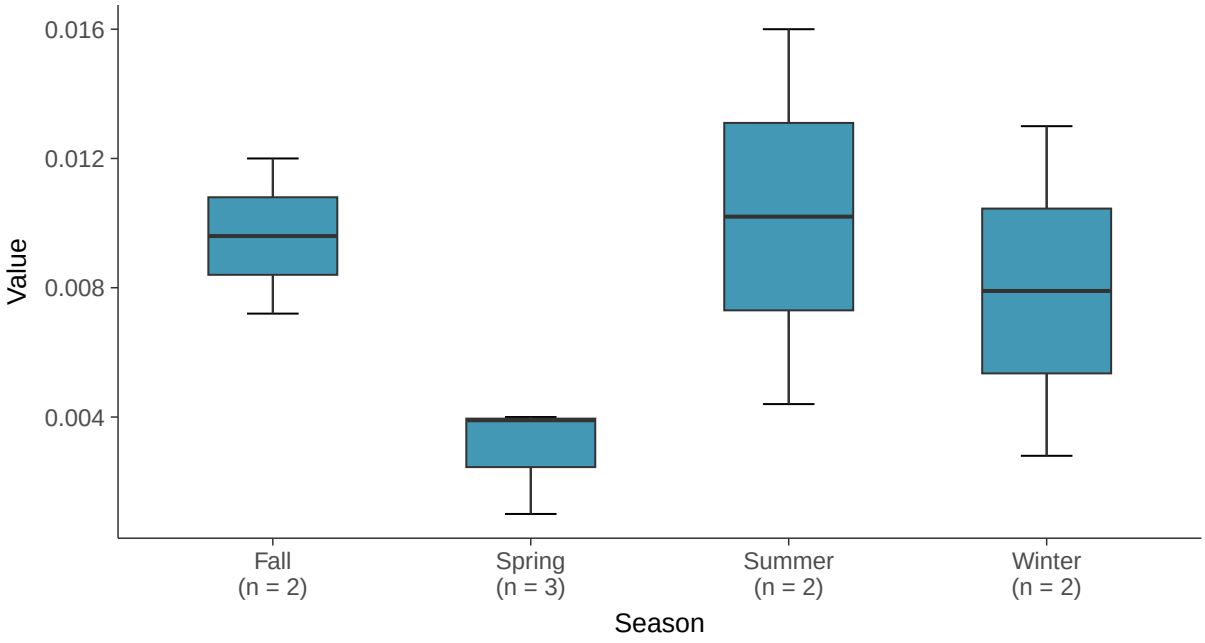
Boxplot

Chromium, Total, MW-38 (mg/L)



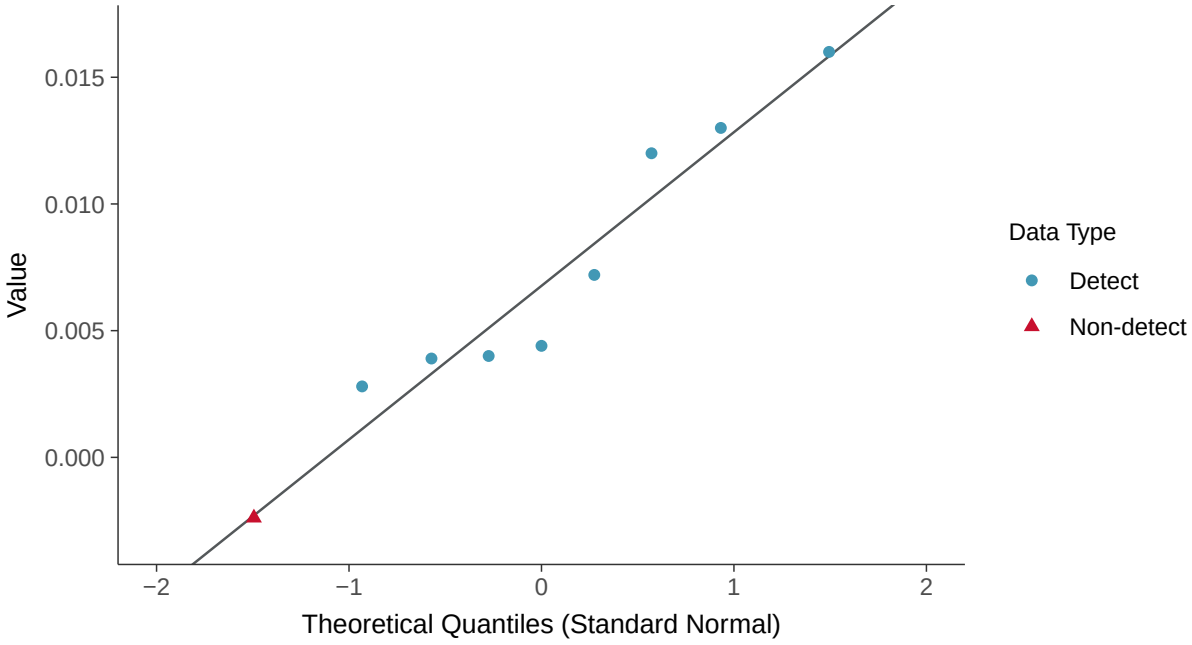
Boxplot by Season

Chromium, Total, MW-38 (mg/L)



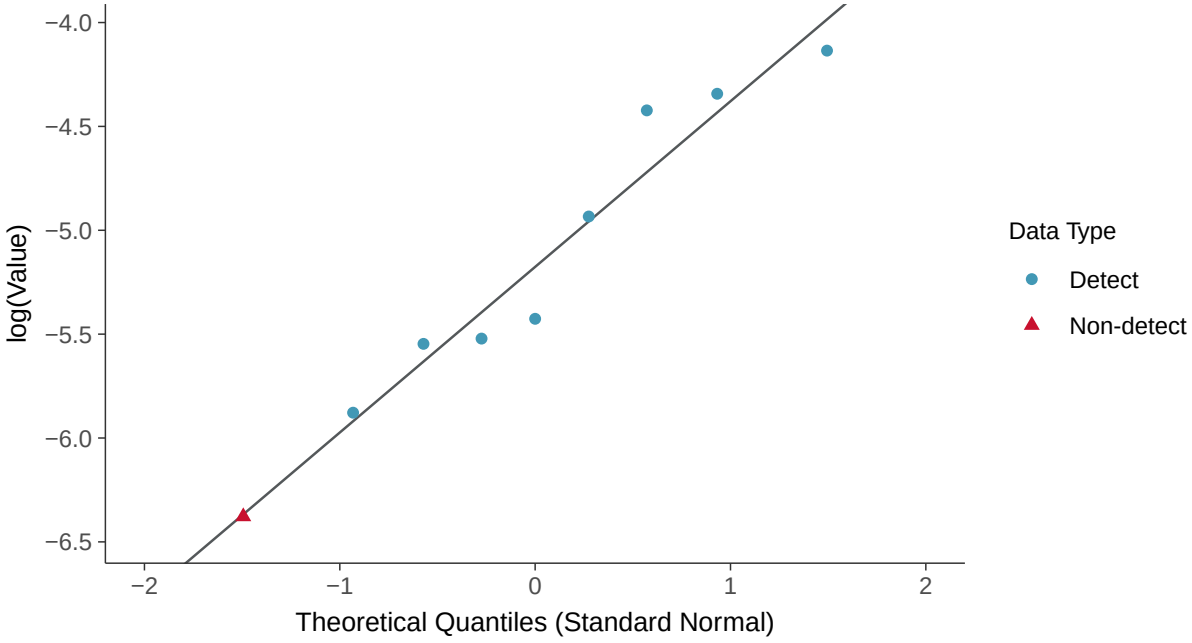
Normal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-38 (mg/L)



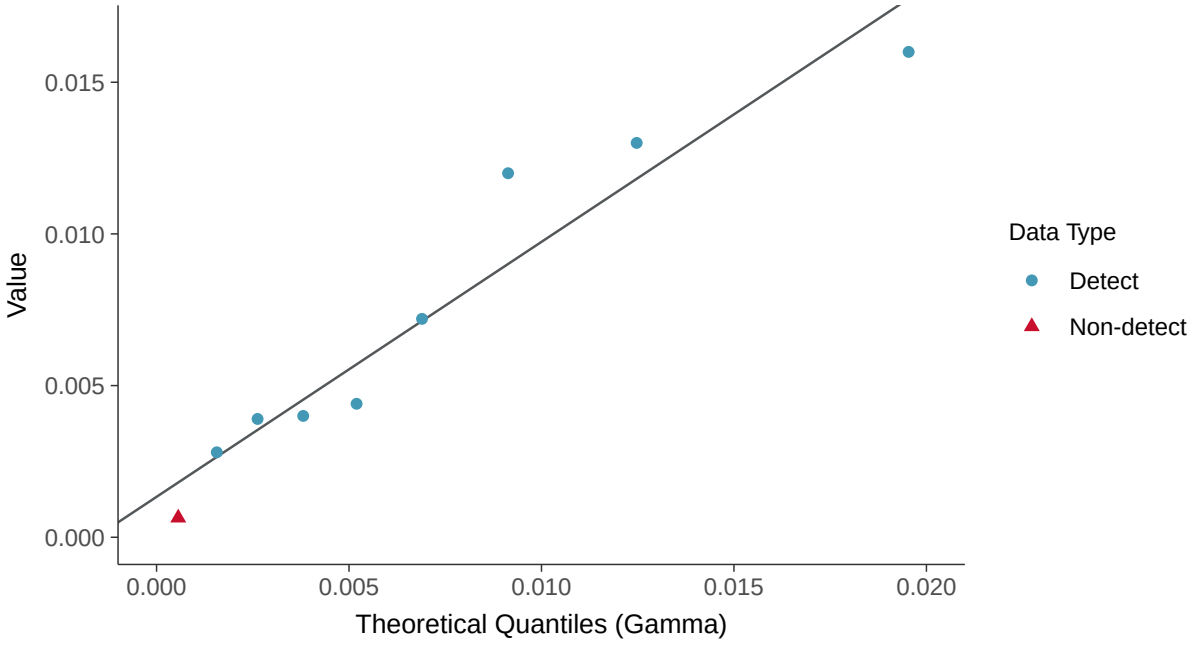
Lognormal Q-Q plot using ROS Imputed Estimates

Chromium, Total, MW-38 (mg/L)



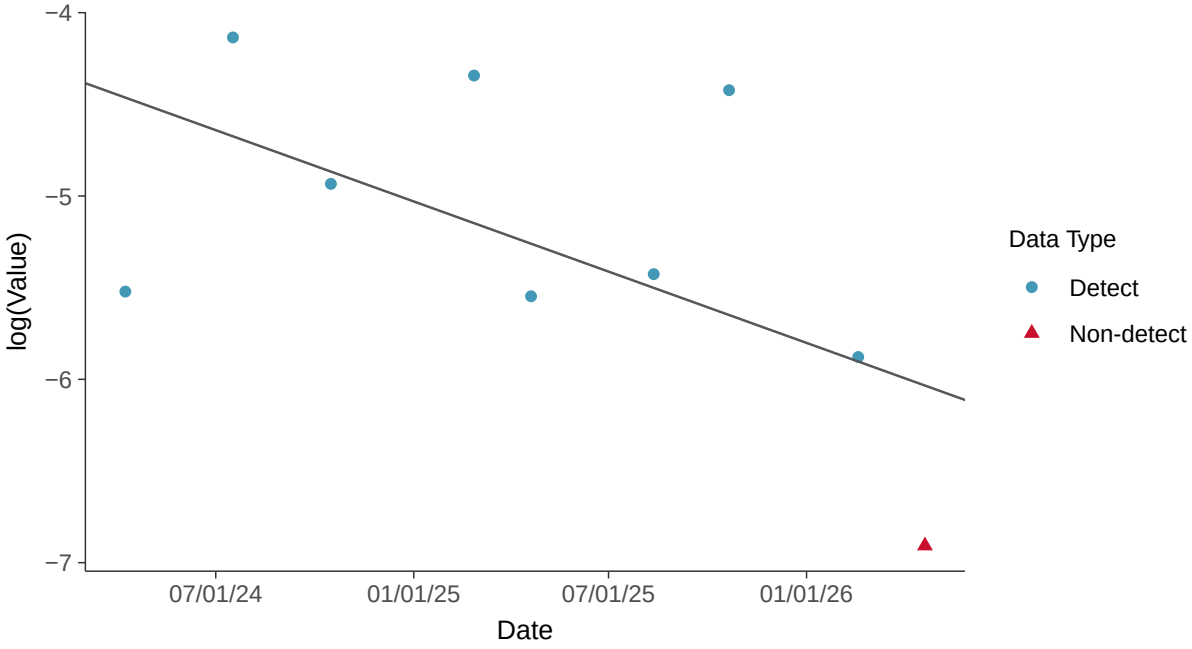
Gamma Q-Q plot using ROS Imputed Estimates

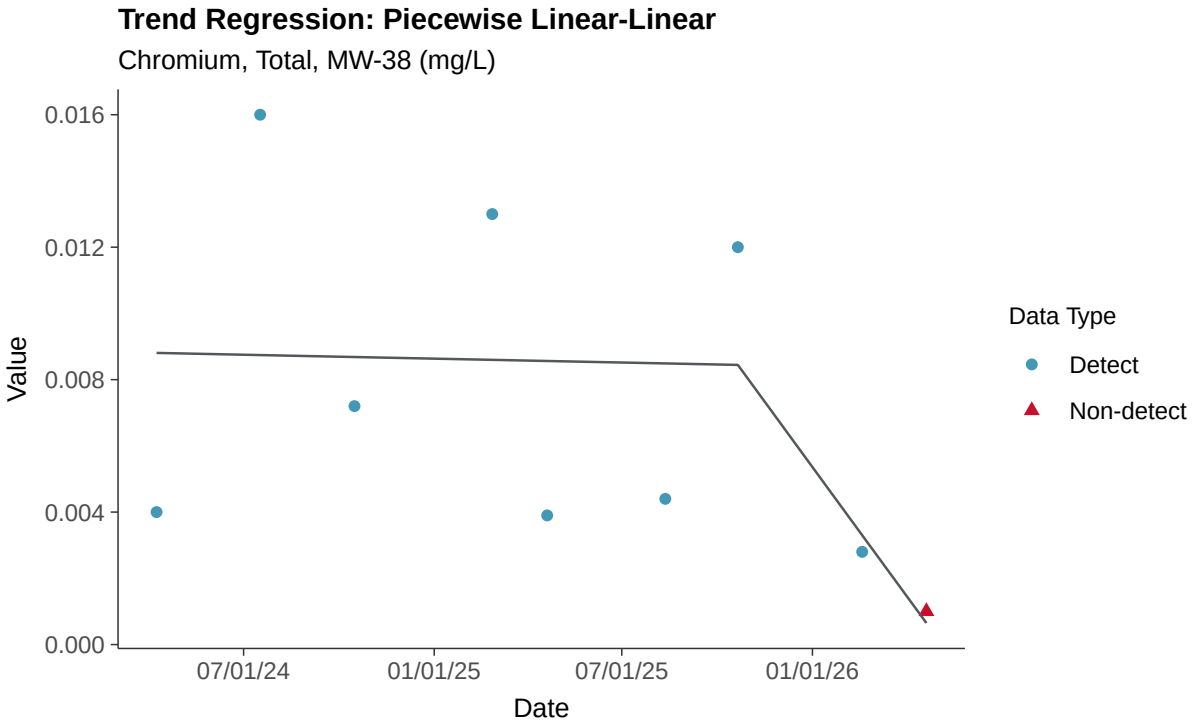
Chromium, Total, MW-38 (mg/L)



Trend Regression: Lognormal MLE

Chromium, Total, MW-38 (mg/L)



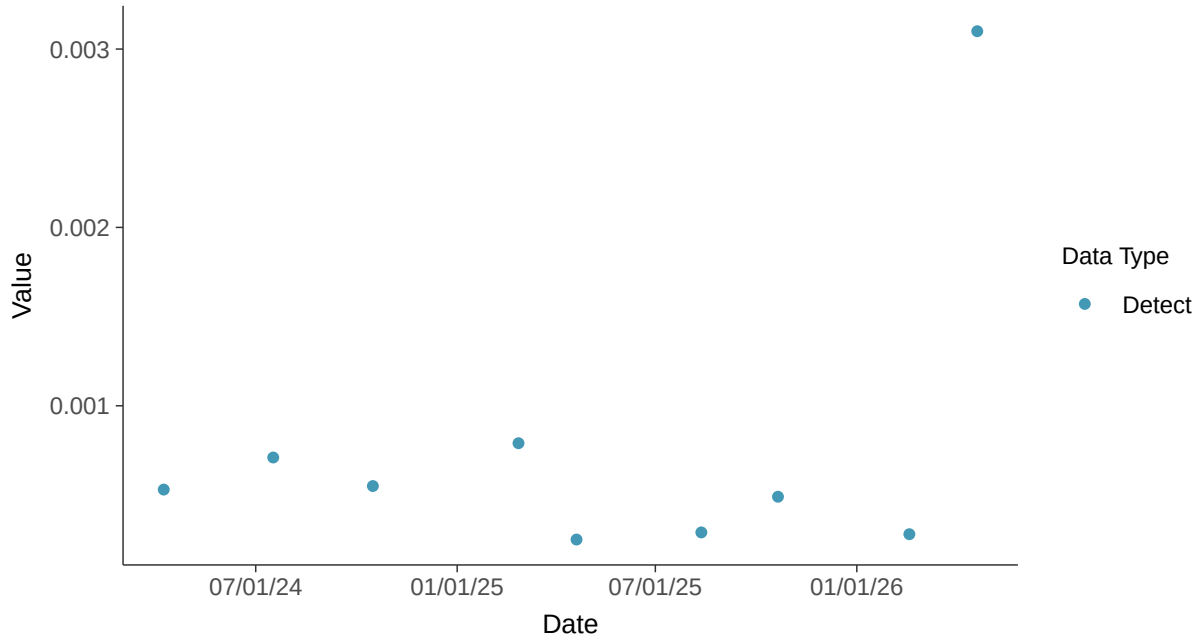

Trend Regression: Piecewise Linear-Linear
Chromium, Total, MW-38 (mg/L)
0.016
0.012
0.008
0.004
0.000
Value
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Cobalt, MW-38

ID: 48_2_4_110

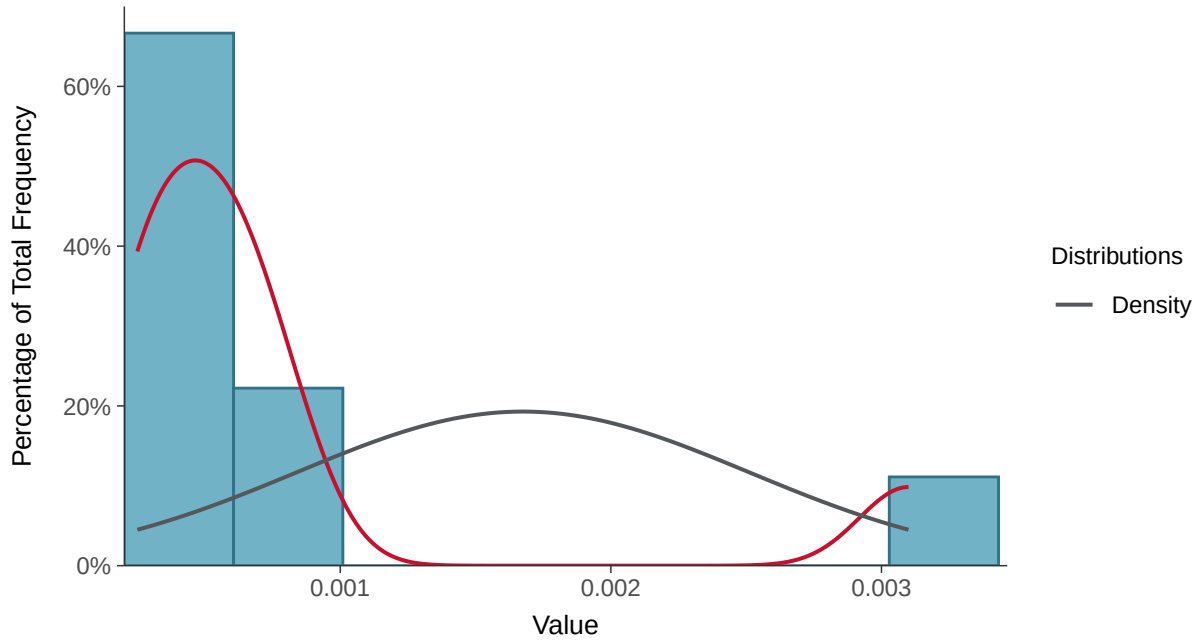
Scatter Plot

Cobalt, MW-38 (mg/L)



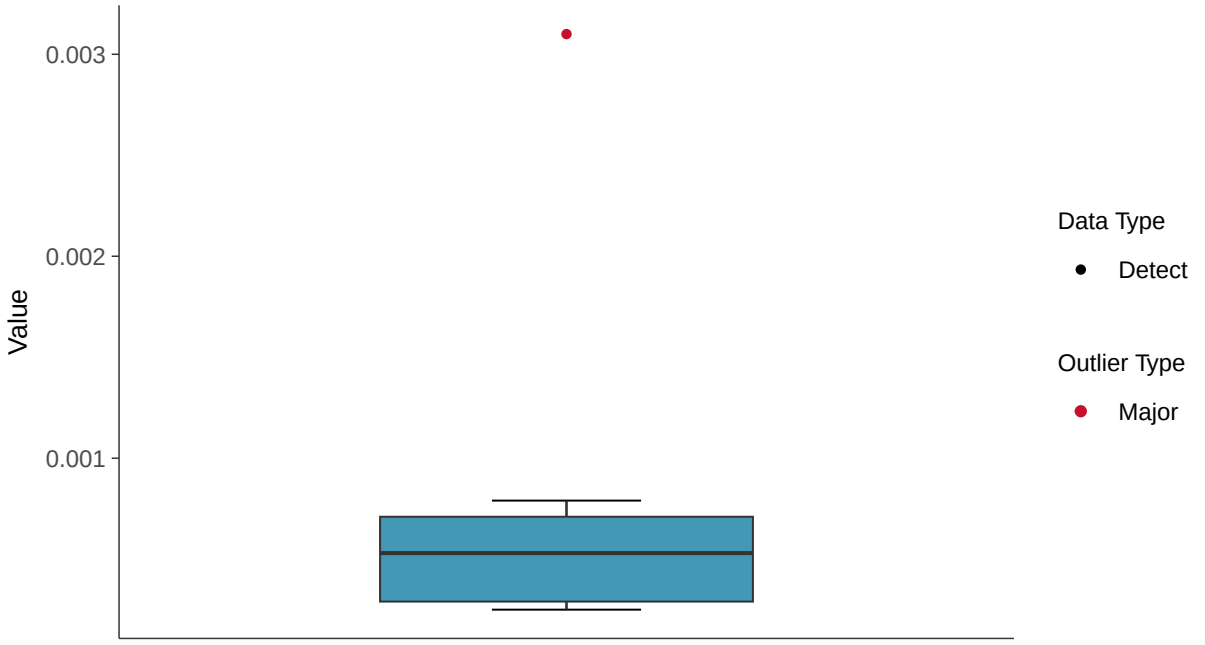
Histogram

Cobalt, MW-38 (mg/L)



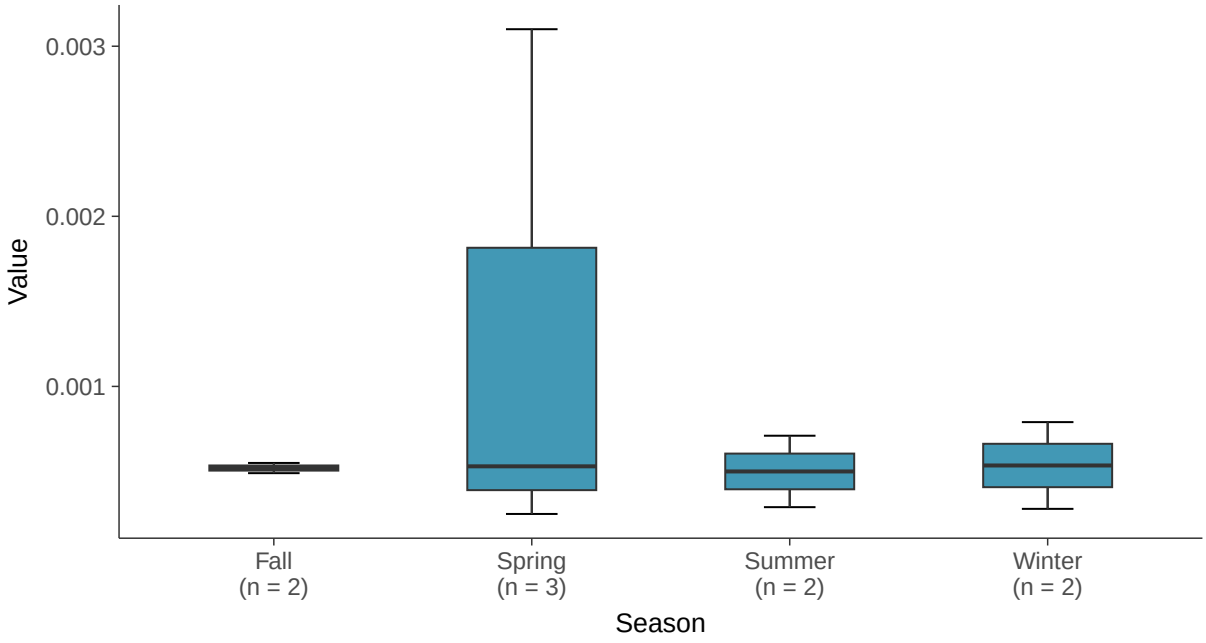
Boxplot

Cobalt, MW-38 (mg/L)



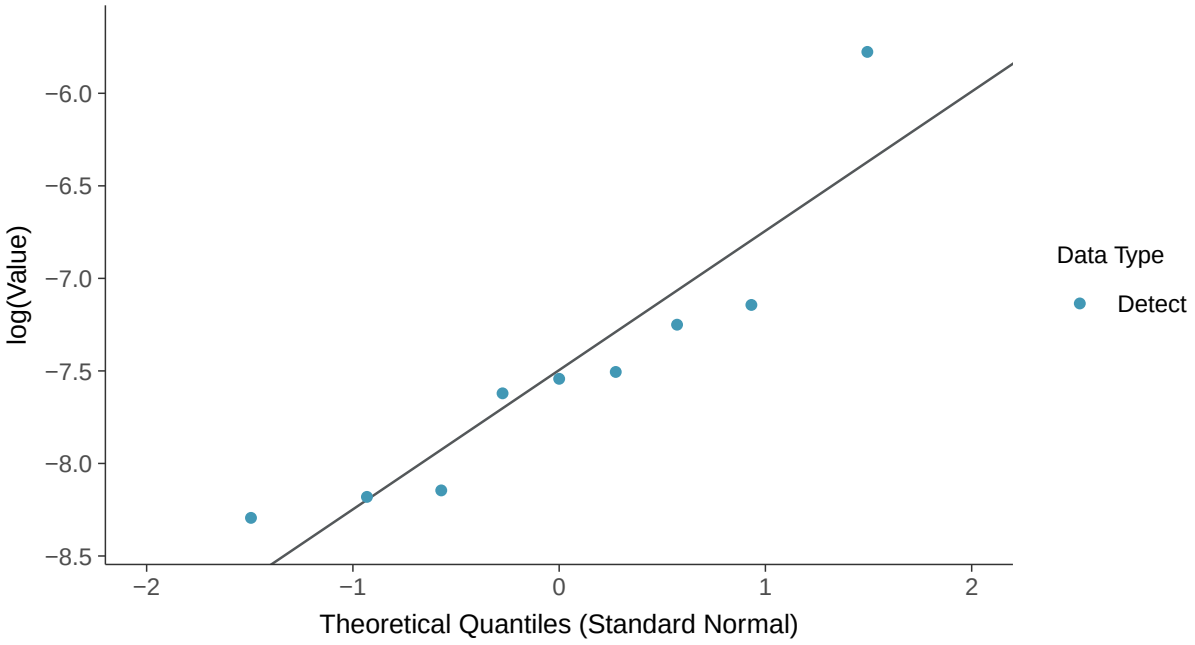
Boxplot by Season

Cobalt, MW-38 (mg/L)



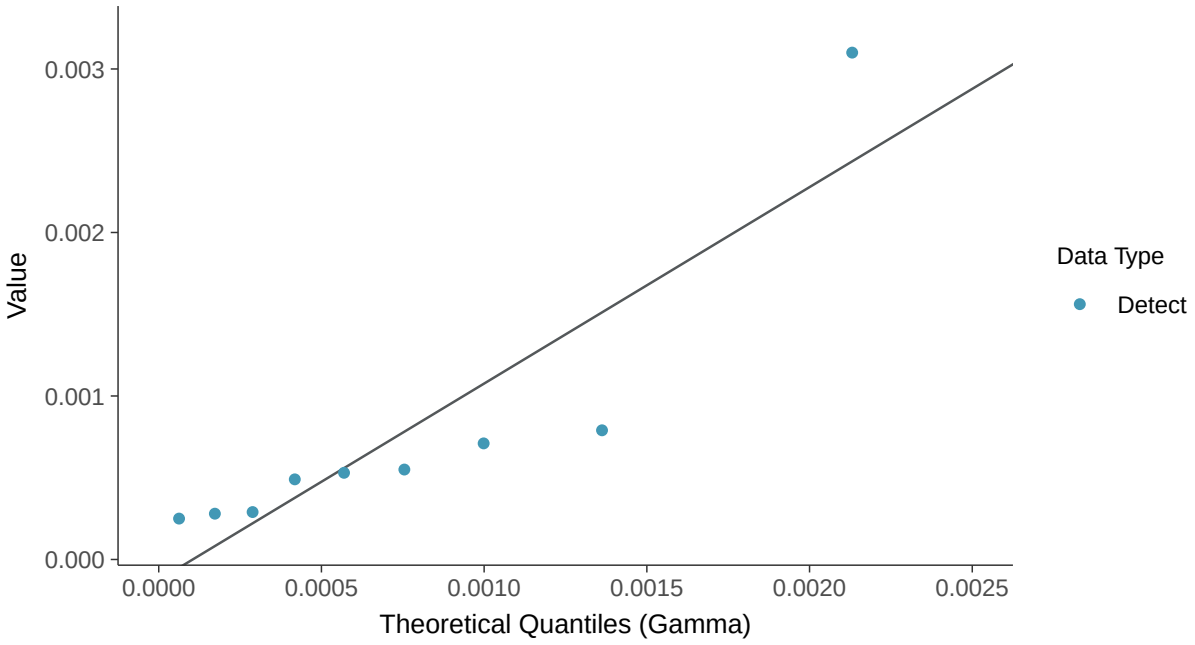
Lognormal Q-Q plot

Cobalt, MW-38 (mg/L)



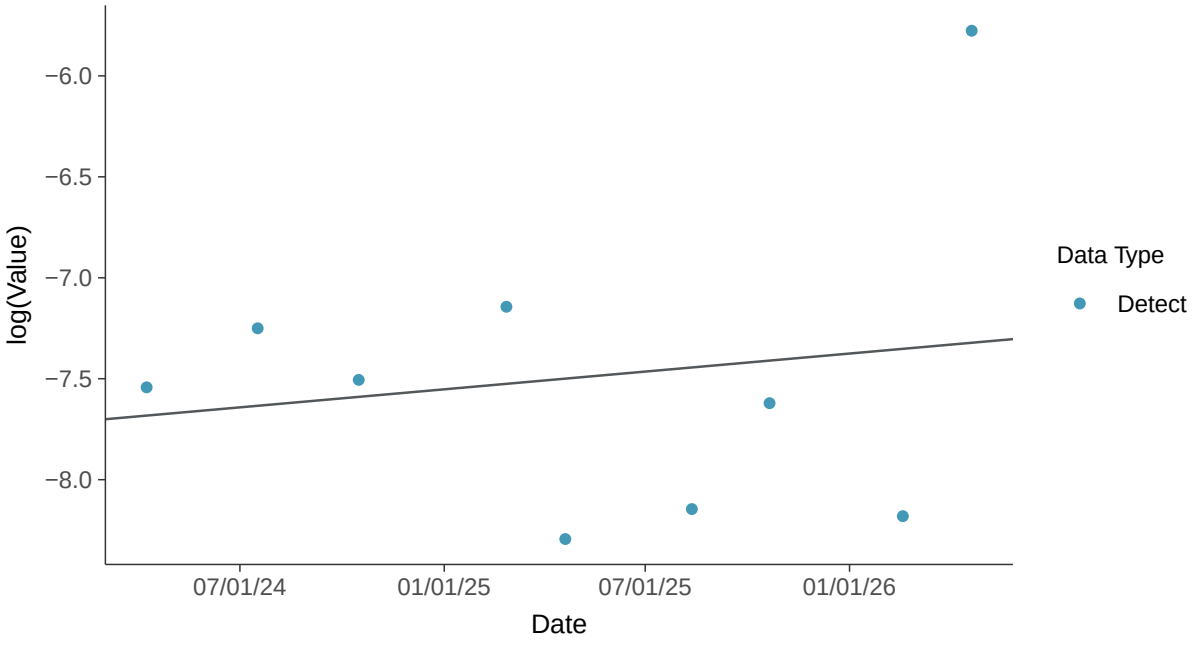
Gamma Q-Q plot

Cobalt, MW-38 (mg/L)



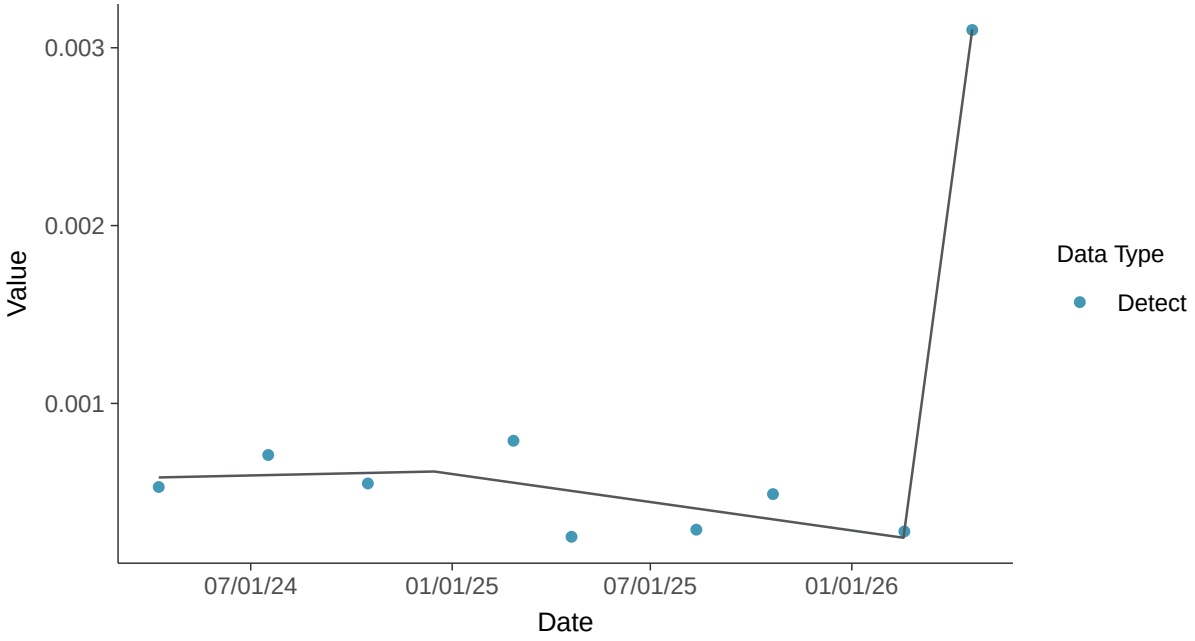
Trend Regression: Lognormal MLE

Cobalt, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Cobalt, MW-38 (mg/L)

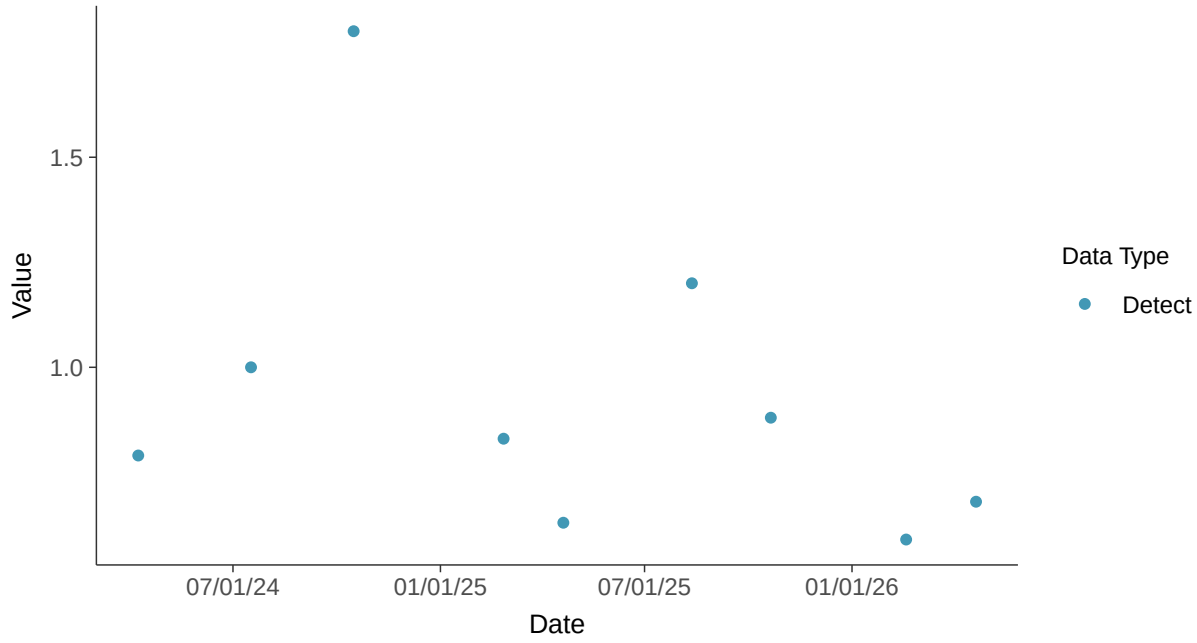


Appendix IV: Fluoride (App IV), MW-38

ID: 48_2_4_113

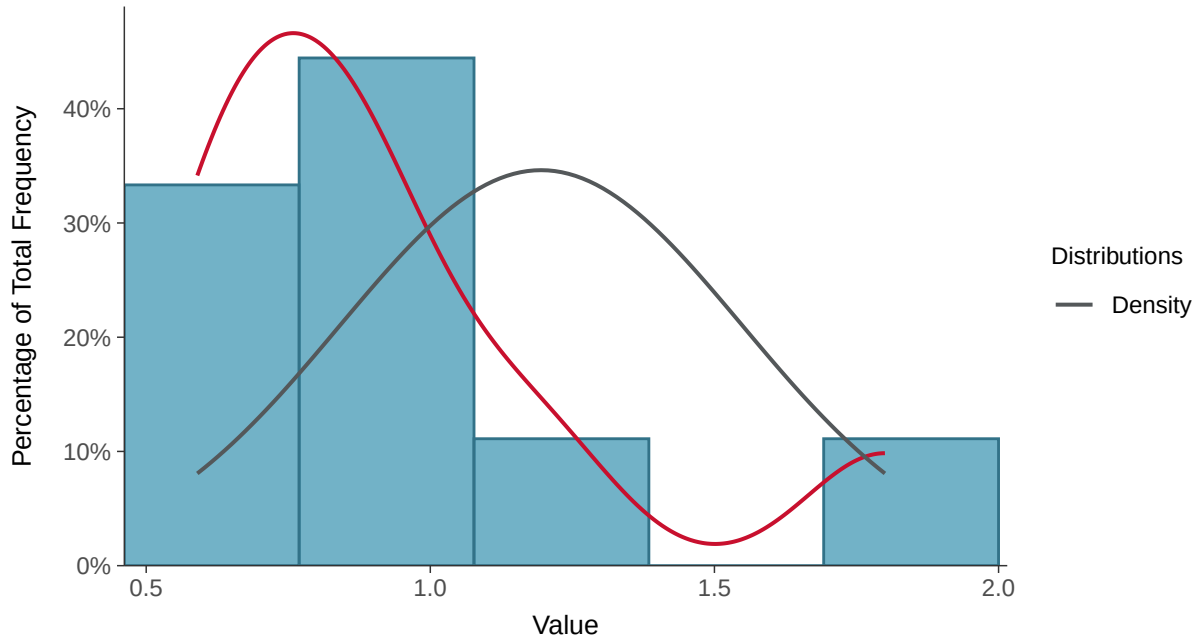
Scatter Plot

Fluoride (App IV), MW-38 (mg/L)



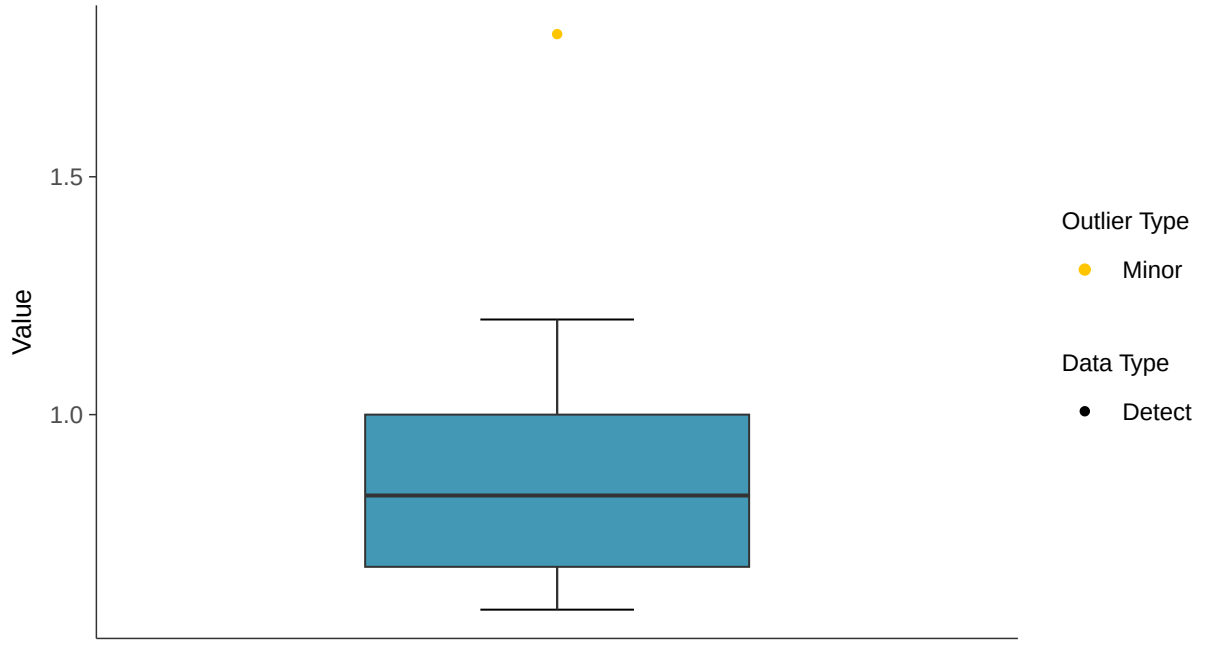
Histogram

Fluoride (App IV), MW-38 (mg/L)



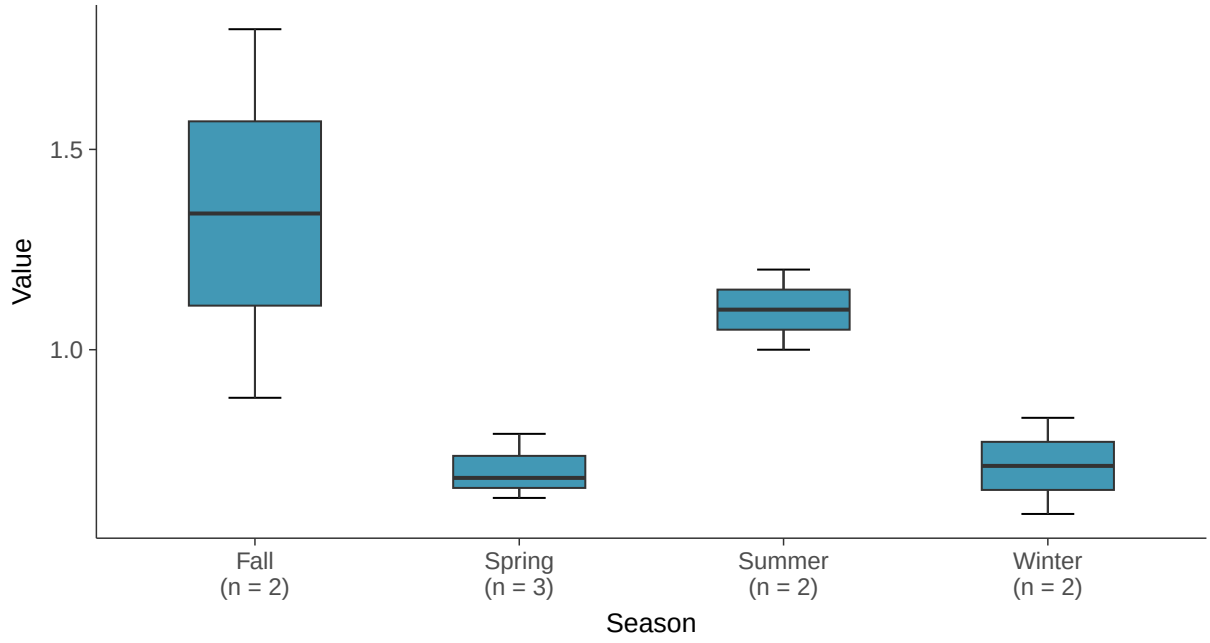
Boxplot

Fluoride (App IV), MW-38 (mg/L)



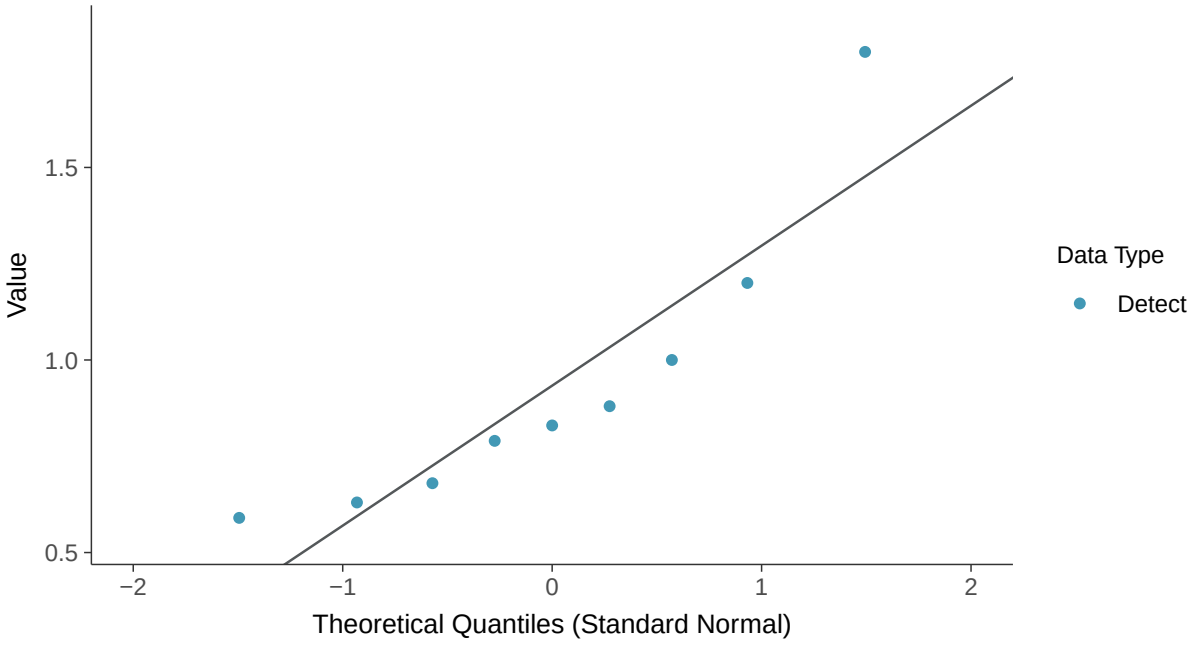
Boxplot by Season

Fluoride (App IV), MW-38 (mg/L)



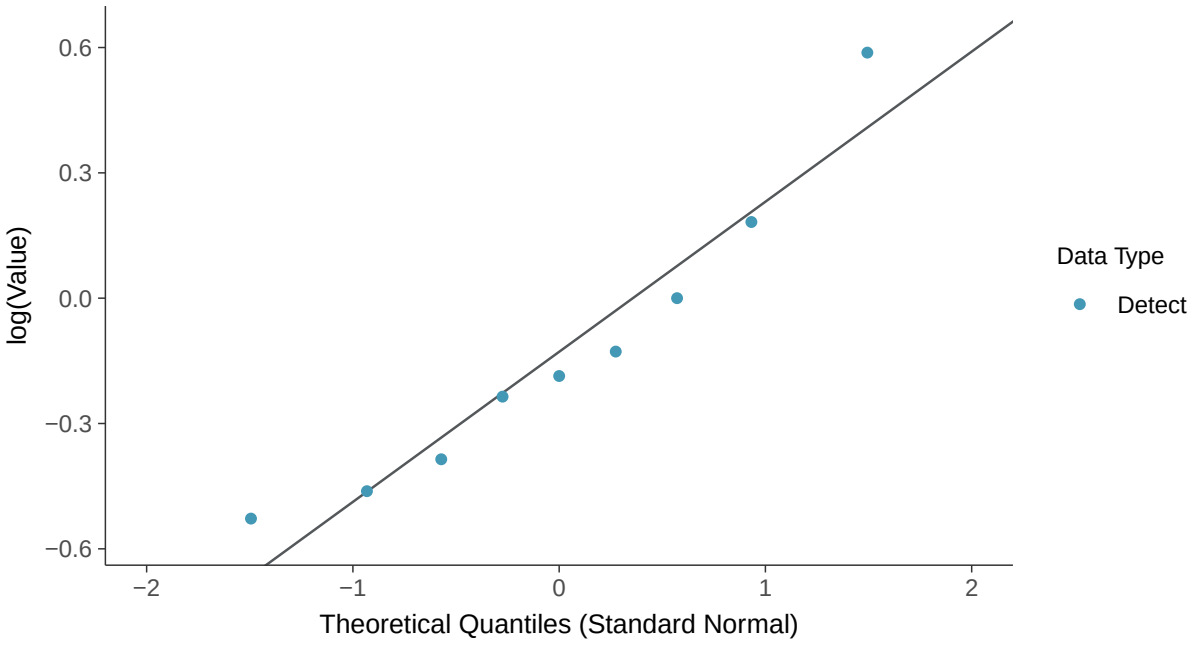
Normal Q-Q plot

Fluoride (App IV), MW-38 (mg/L)



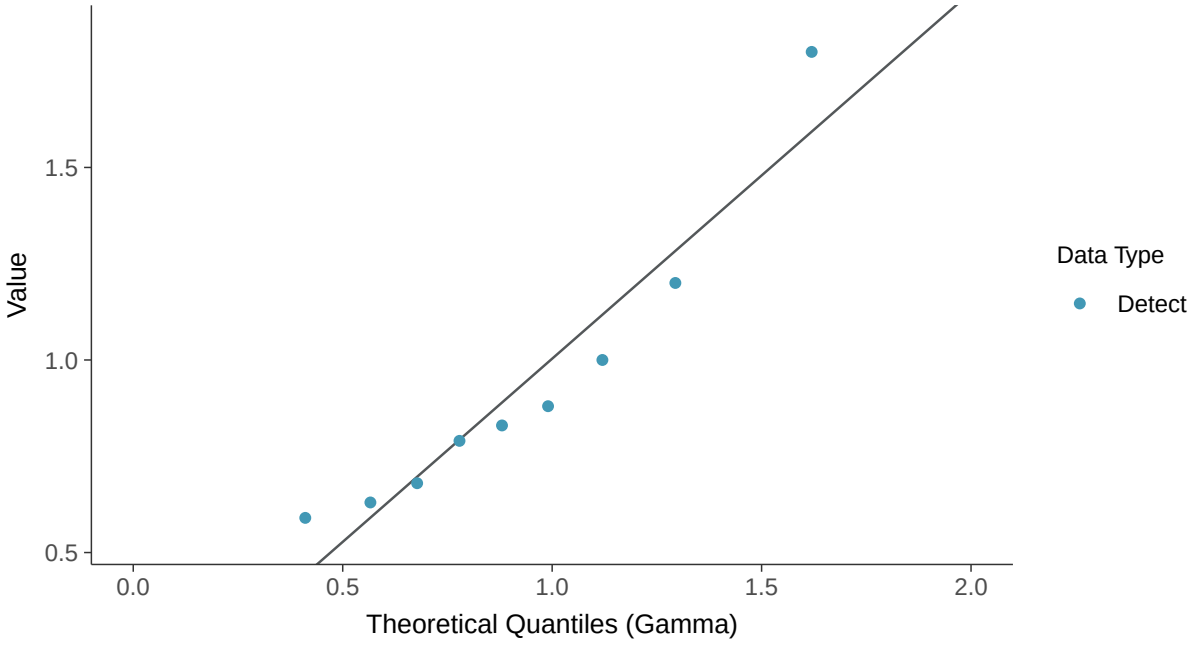
Lognormal Q-Q plot

Fluoride (App IV), MW-38 (mg/L)



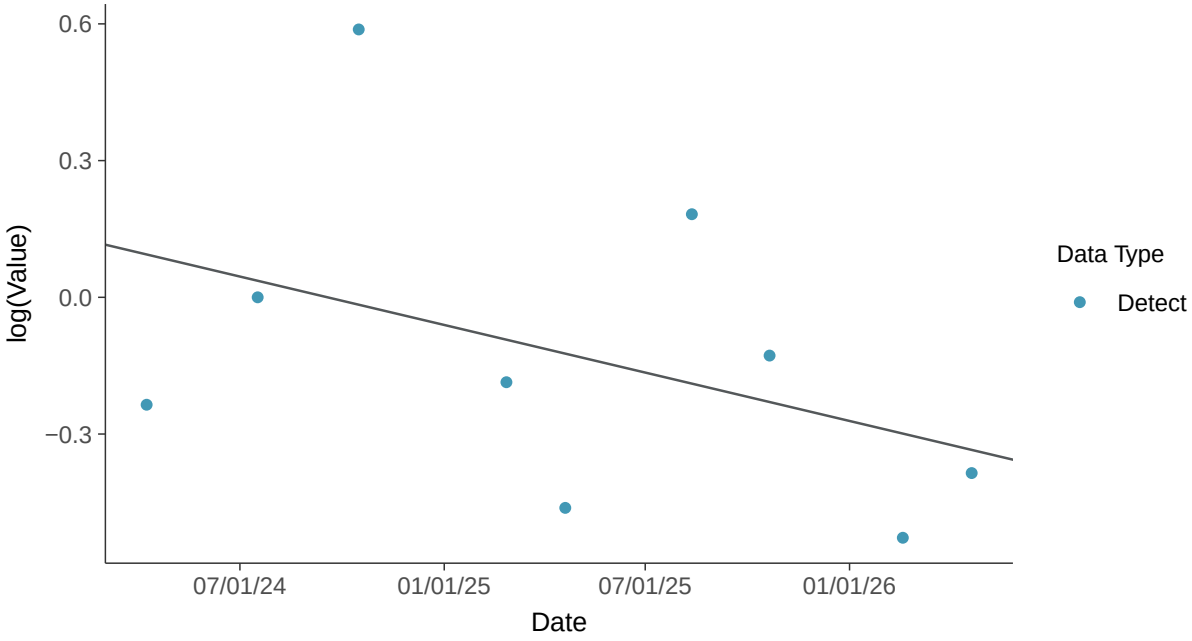
Gamma Q-Q plot

Fluoride (App IV), MW-38 (mg/L)



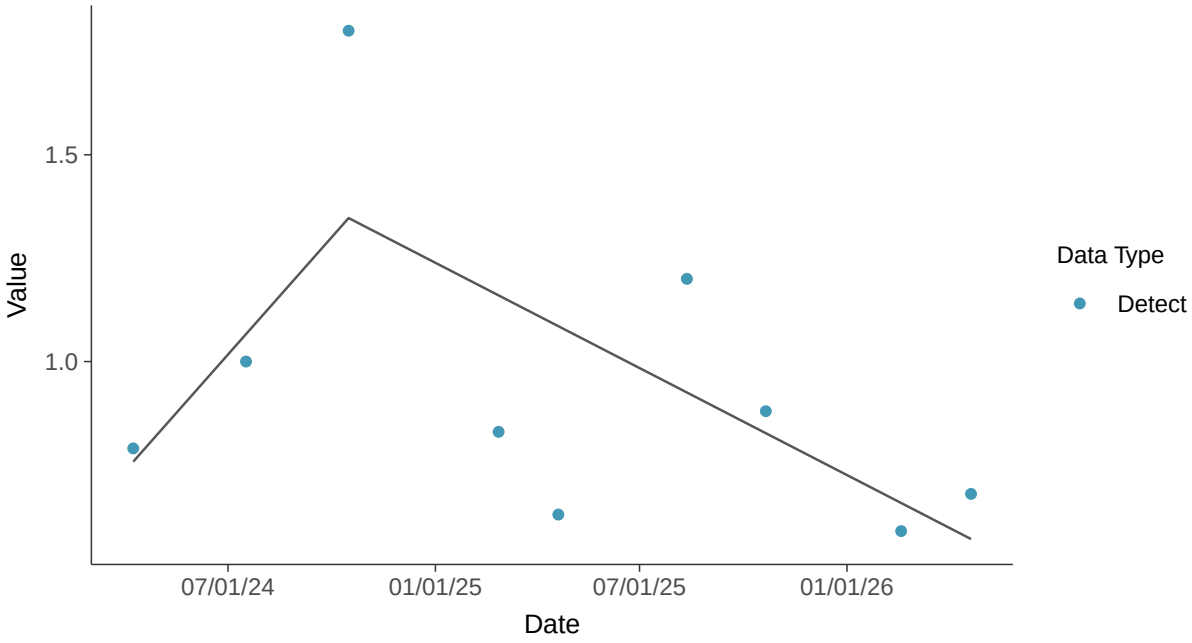
Trend Regression: Lognormal MLE

Fluoride (App IV), MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear

Fluoride (App IV), MW-38 (mg/L)

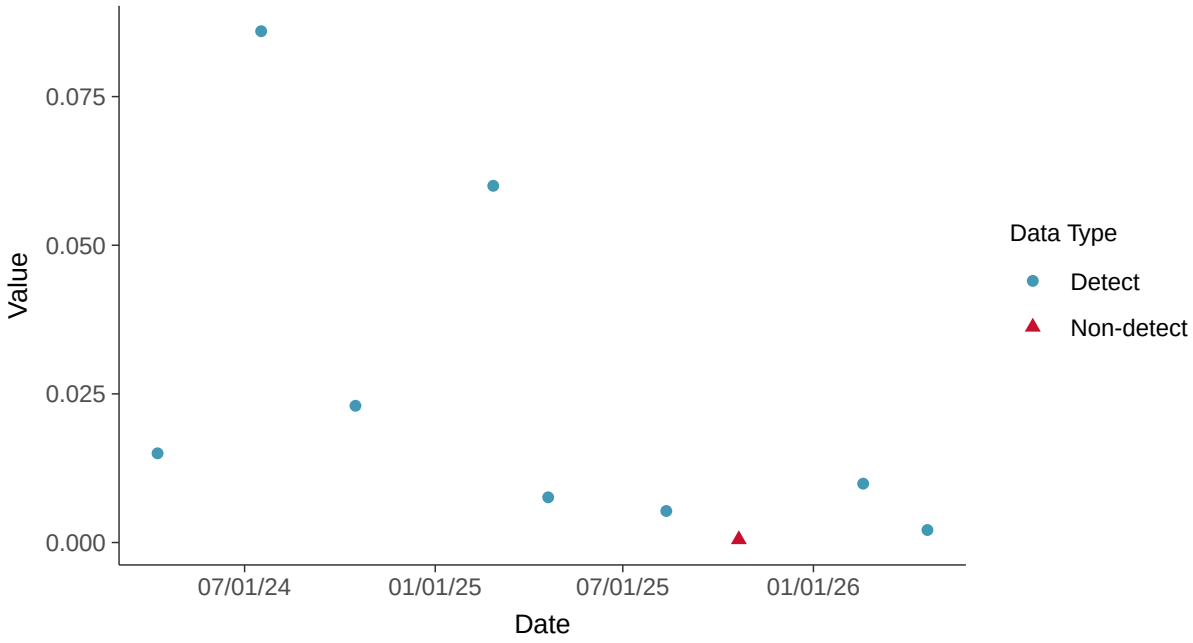


Appendix IV: Lead, MW-38

ID: 48_2_4_115

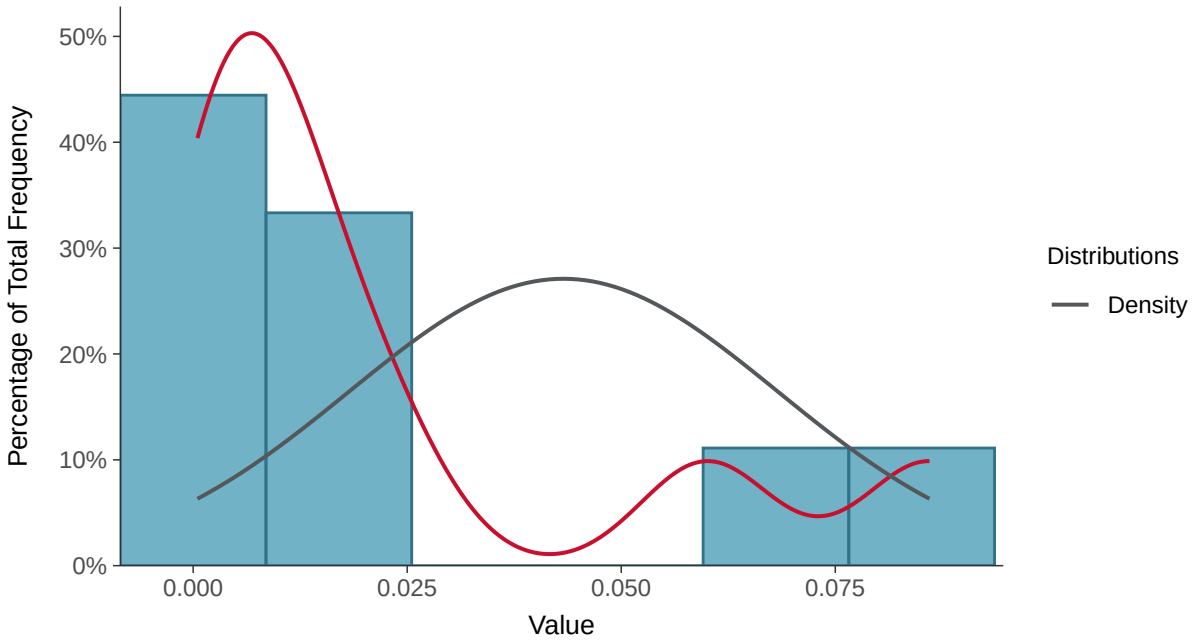
Scatter Plot

Lead, MW-38 (mg/L)



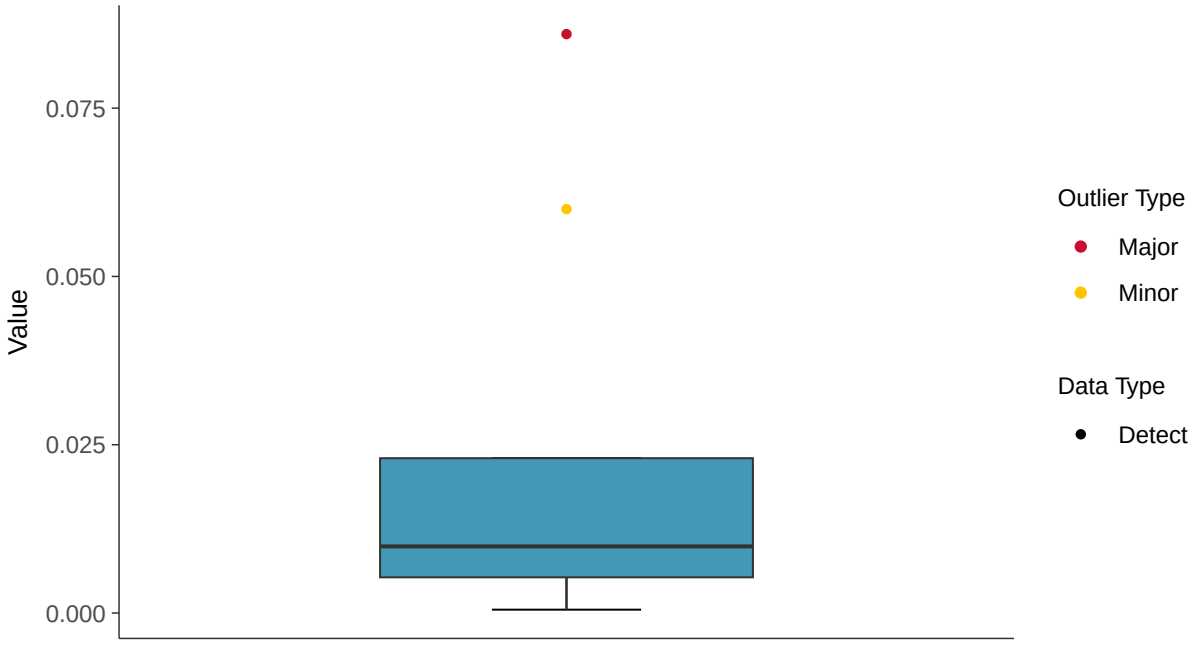
Histogram

Lead, MW-38 (mg/L)



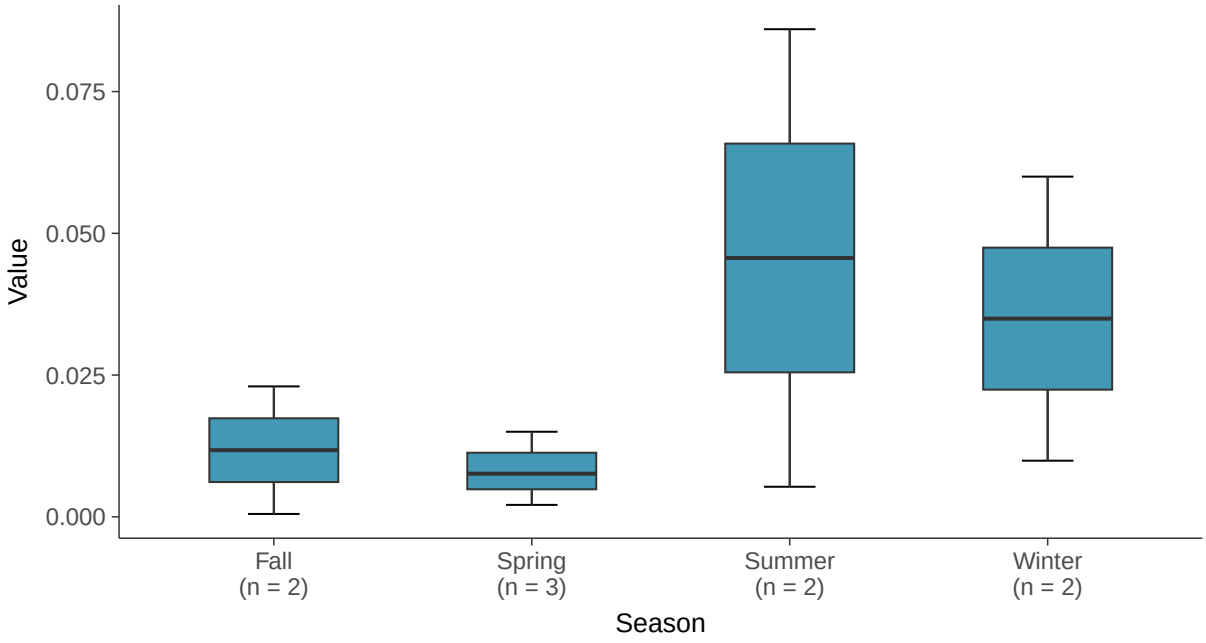
Boxplot

Lead, MW-38 (mg/L)



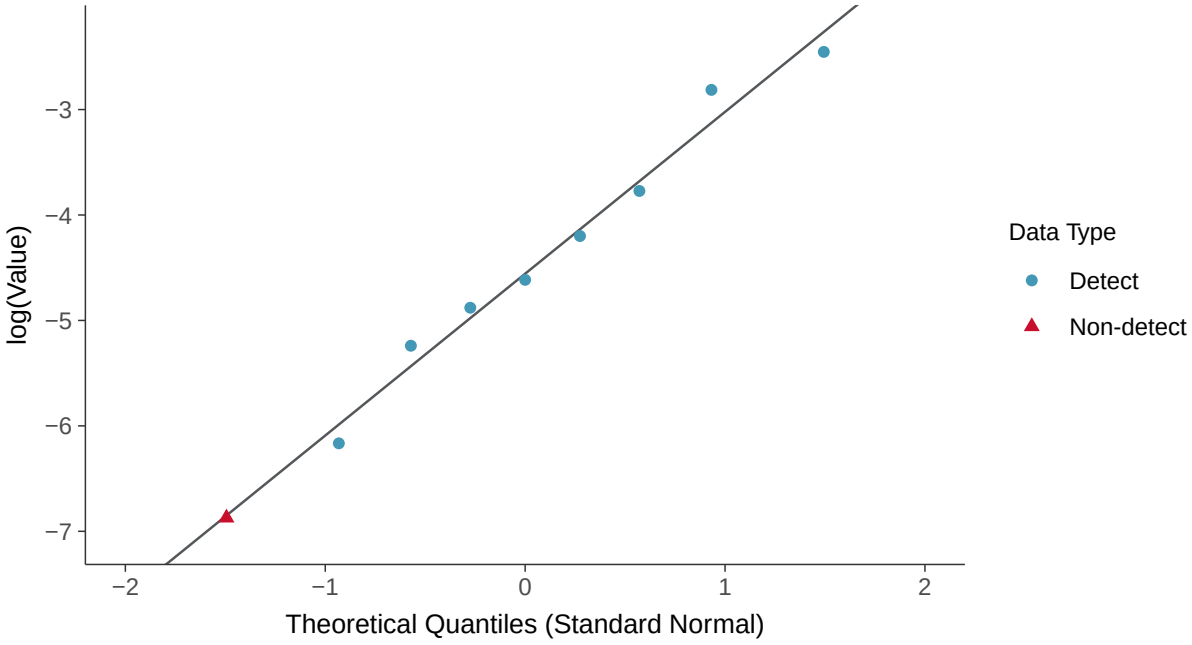
Boxplot by Season

Lead, MW-38 (mg/L)



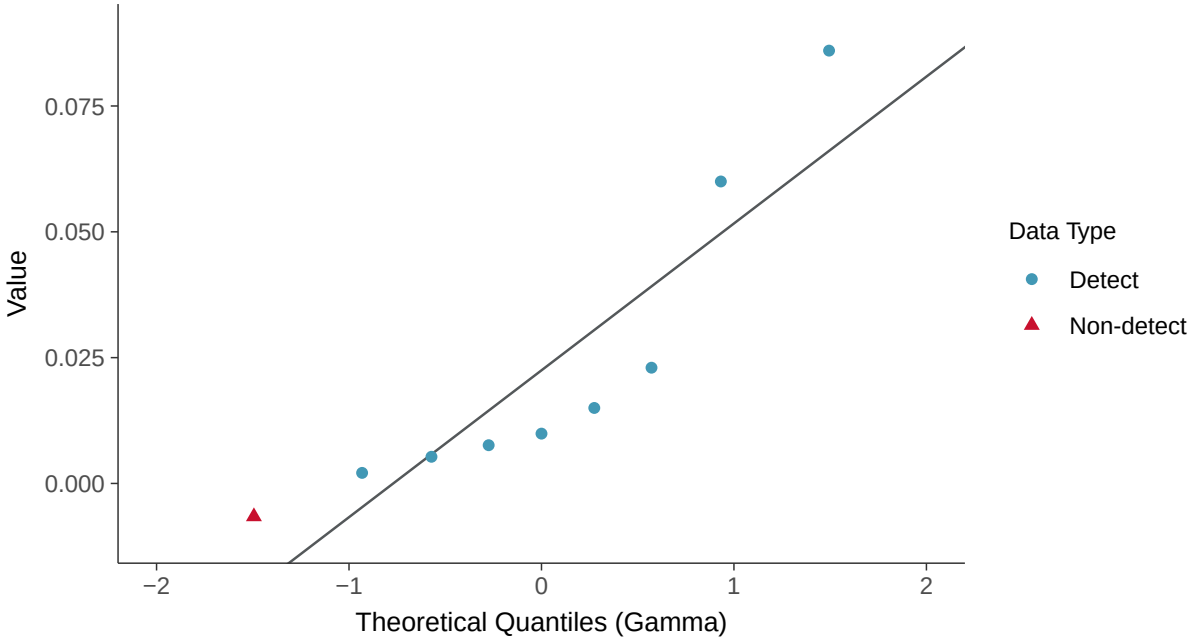
Lognormal Q-Q plot using ROS Imputed Estimates

Lead, MW-38 (mg/L)



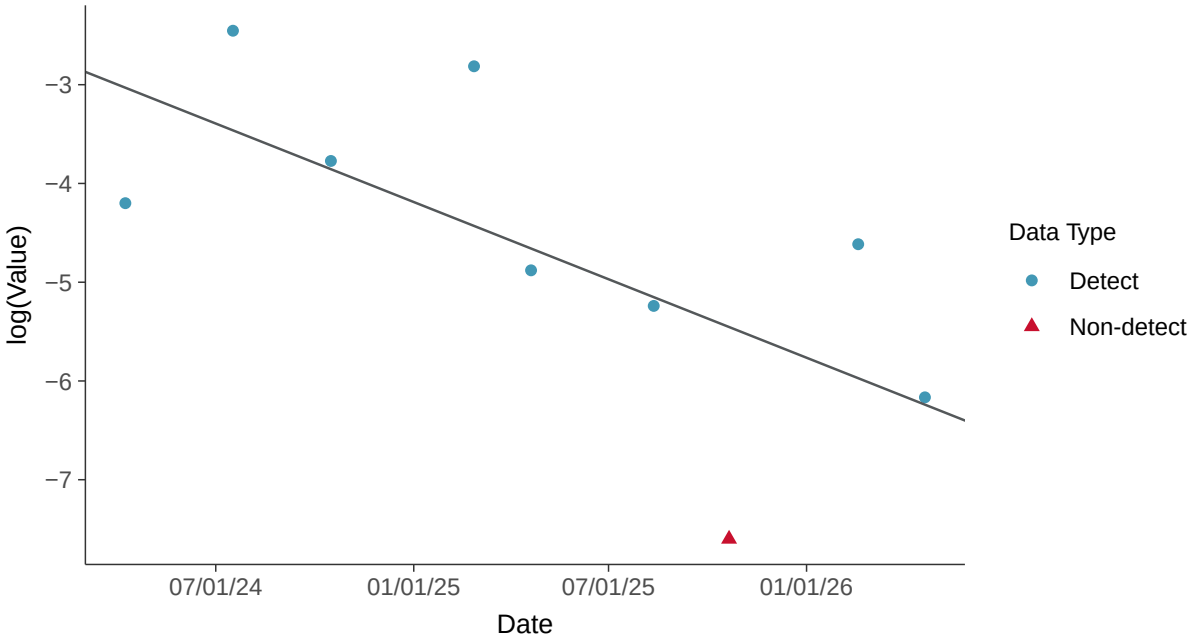
Gamma Q-Q plot using ROS Imputed Estimates

Lead, MW-38 (mg/L)



Trend Regression: Lognormal MLE

Lead, MW-38 (mg/L)

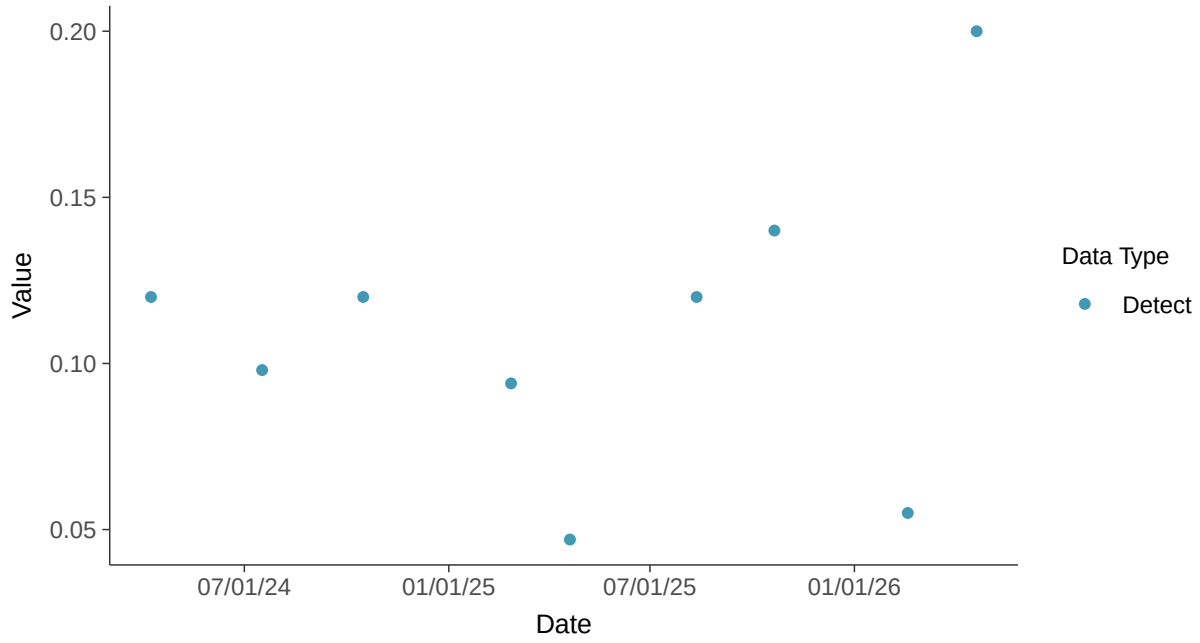


Appendix IV: Lithium, MW-38

ID: 48_2_4_116

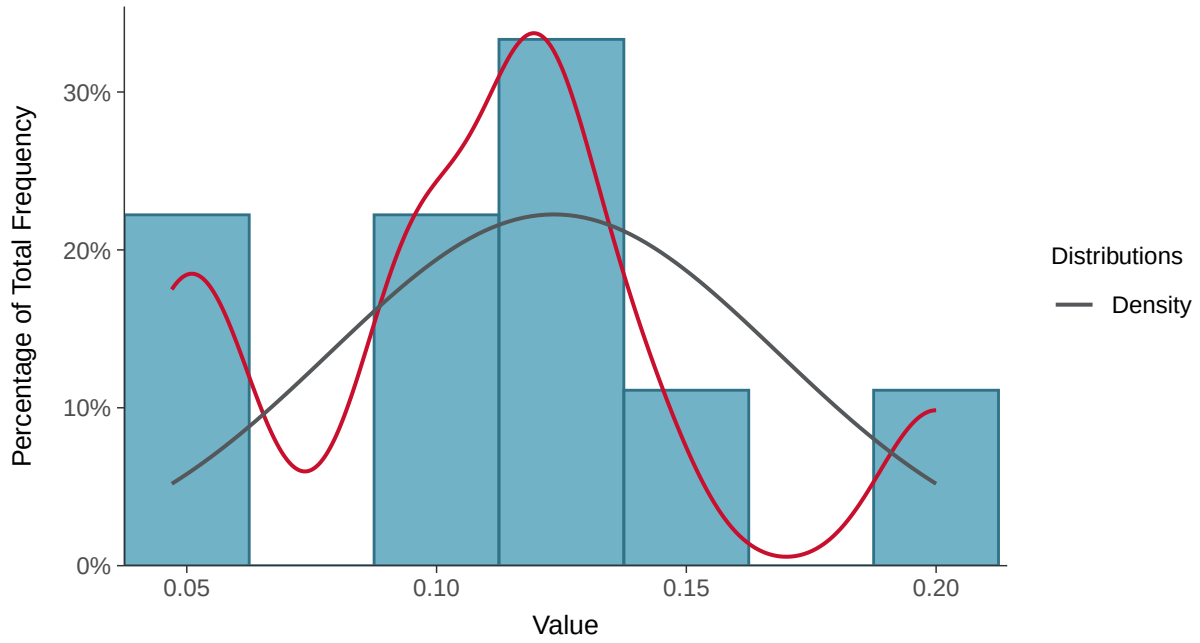
Scatter Plot

Lithium, MW-38 (mg/L)



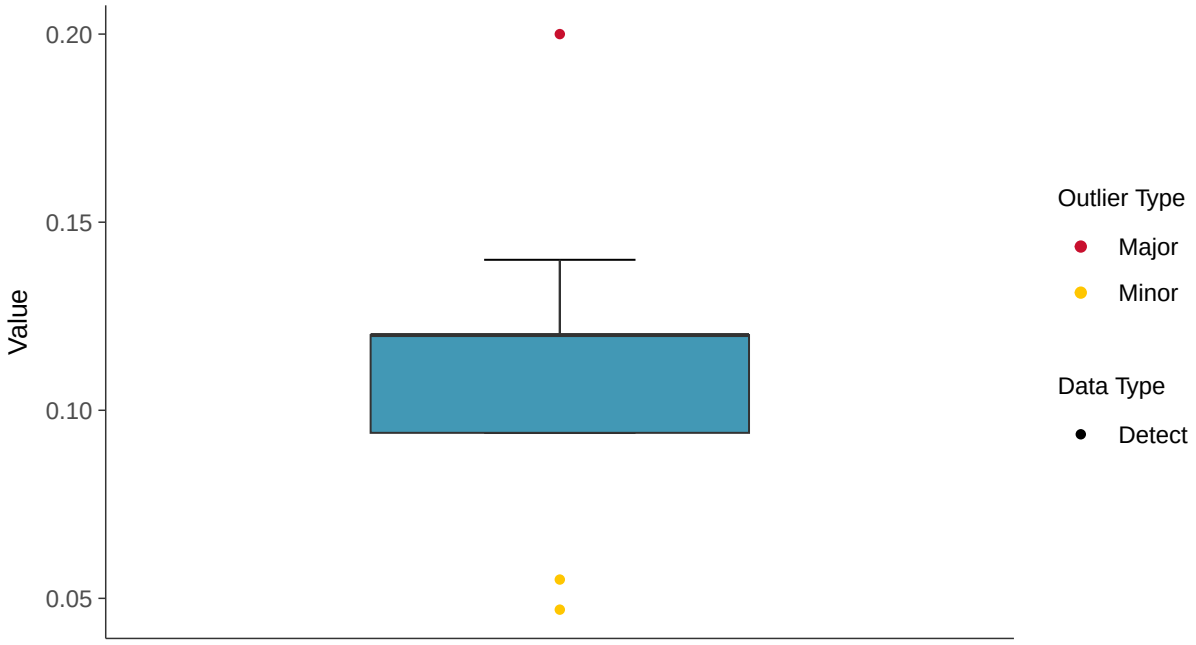
Histogram

Lithium, MW-38 (mg/L)



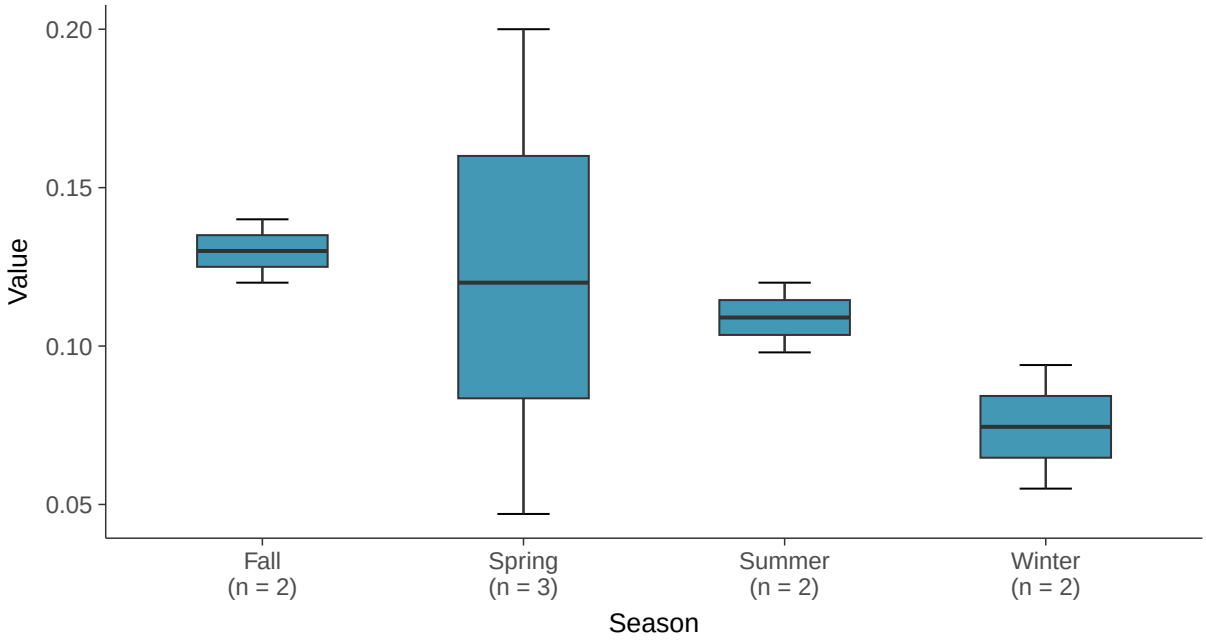
Boxplot

Lithium, MW-38 (mg/L)



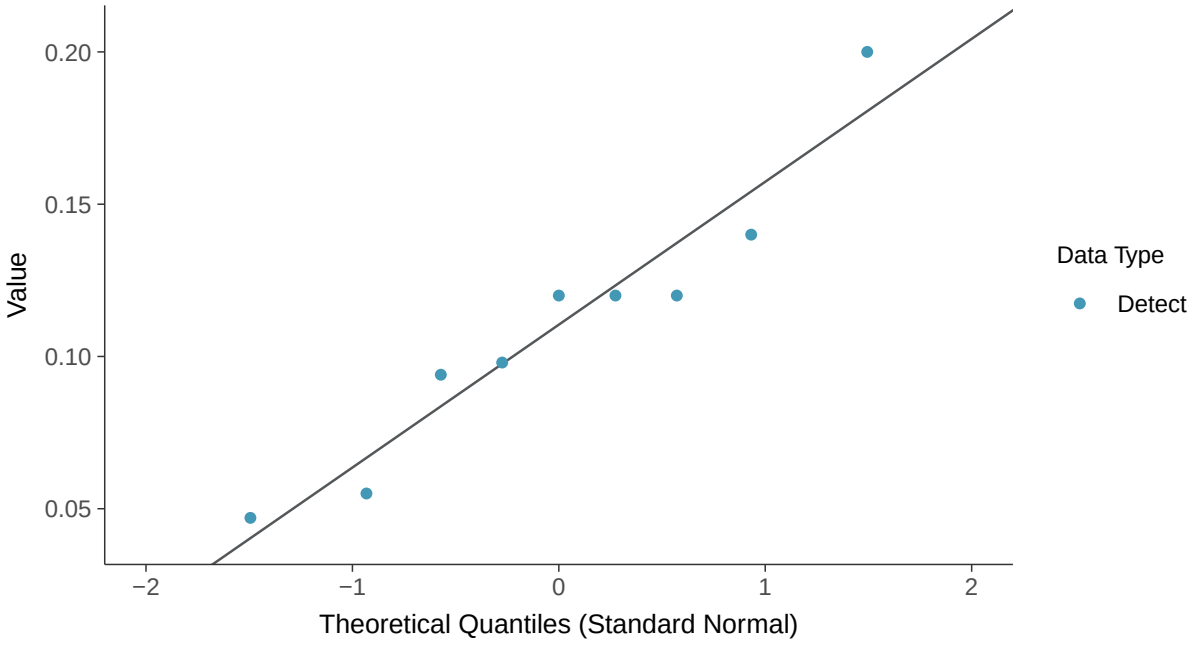
Boxplot by Season

Lithium, MW-38 (mg/L)



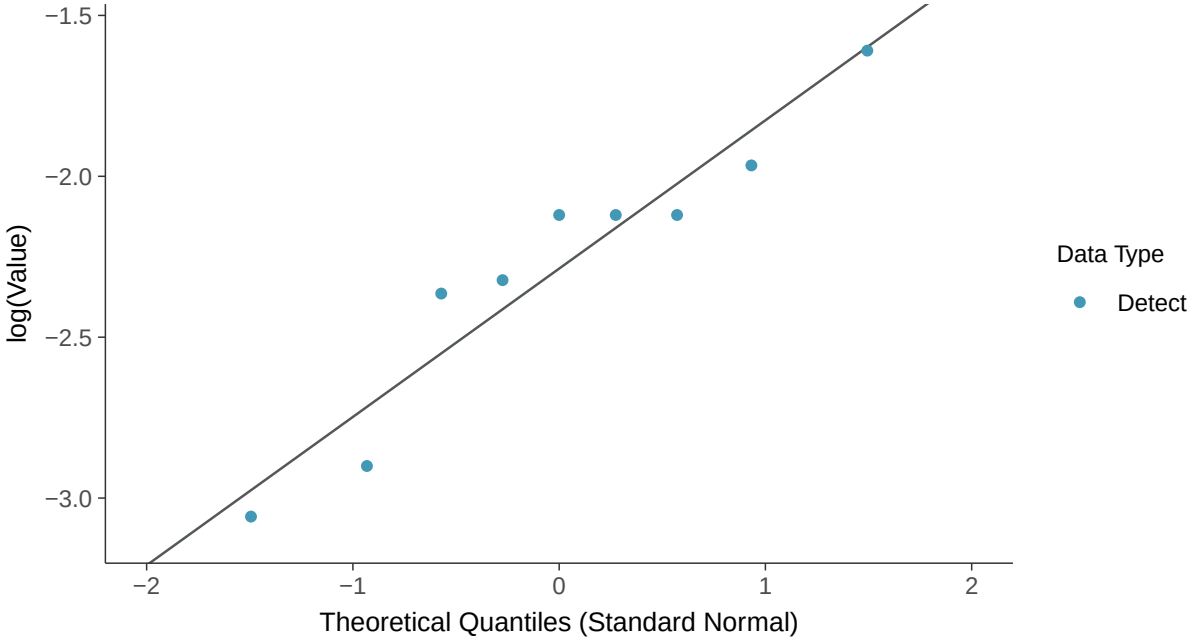
Normal Q-Q plot

Lithium, MW-38 (mg/L)



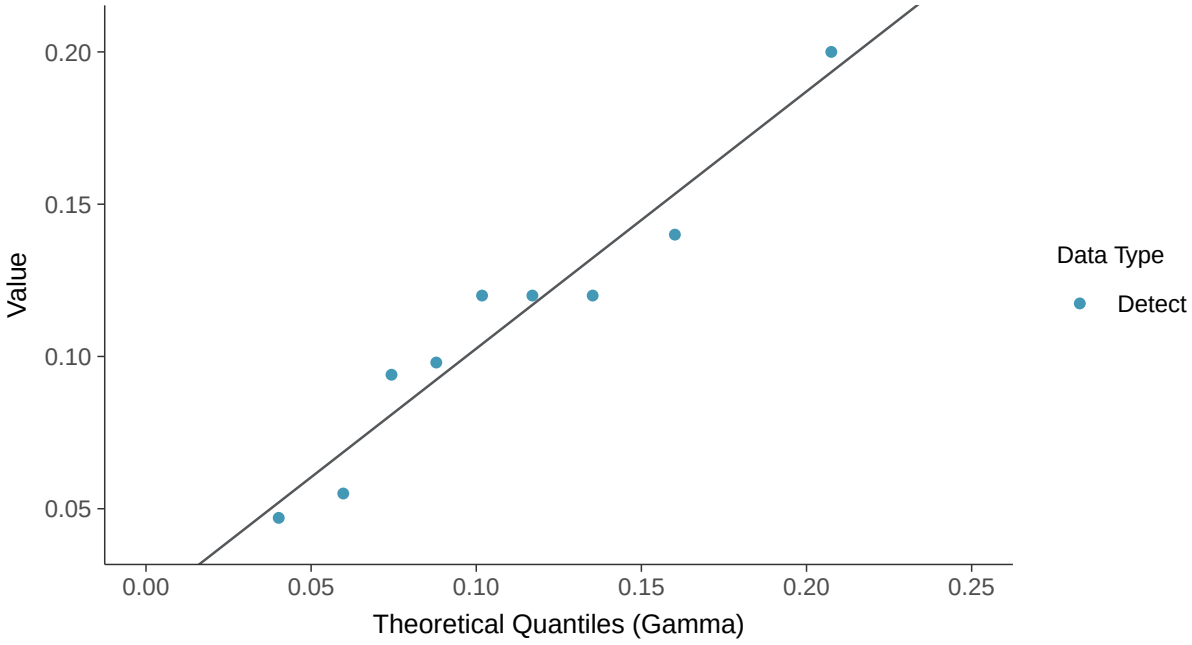
Lognormal Q-Q plot

Lithium, MW-38 (mg/L)



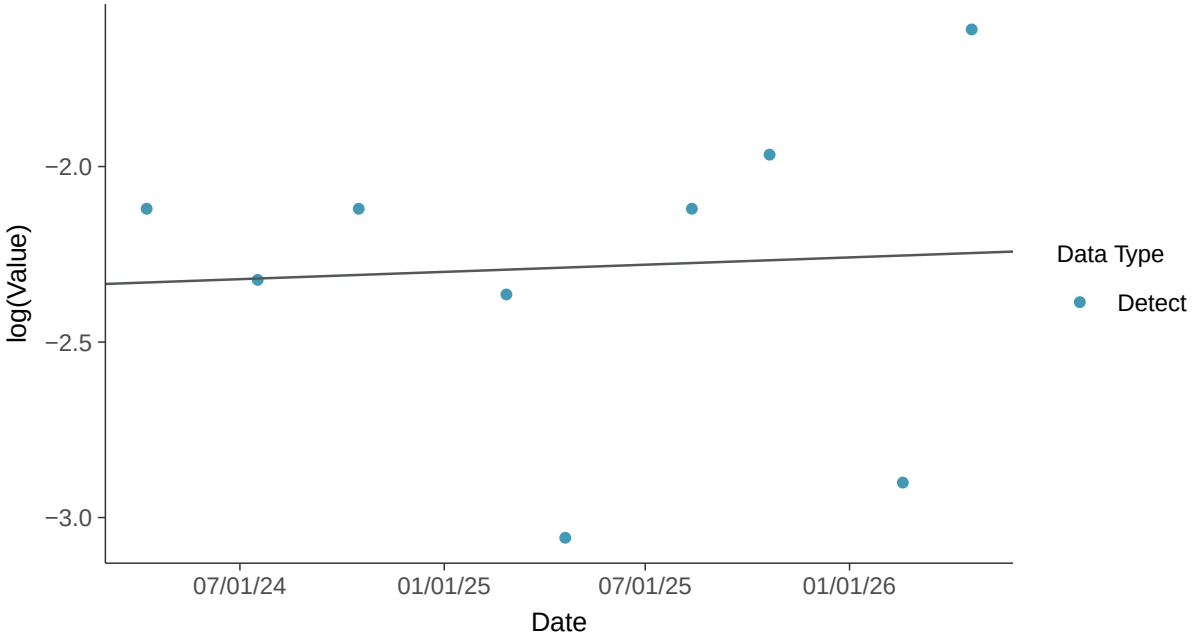
Gamma Q-Q plot

Lithium, MW-38 (mg/L)



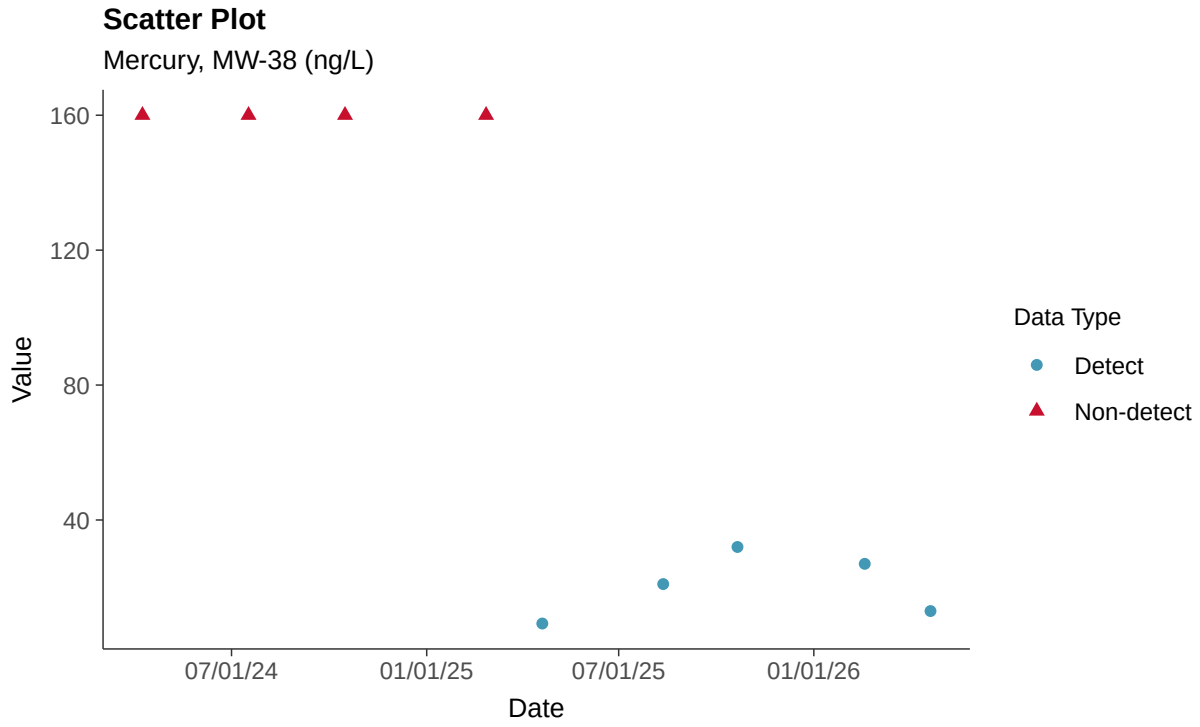
Trend Regression: Lognormal MLE

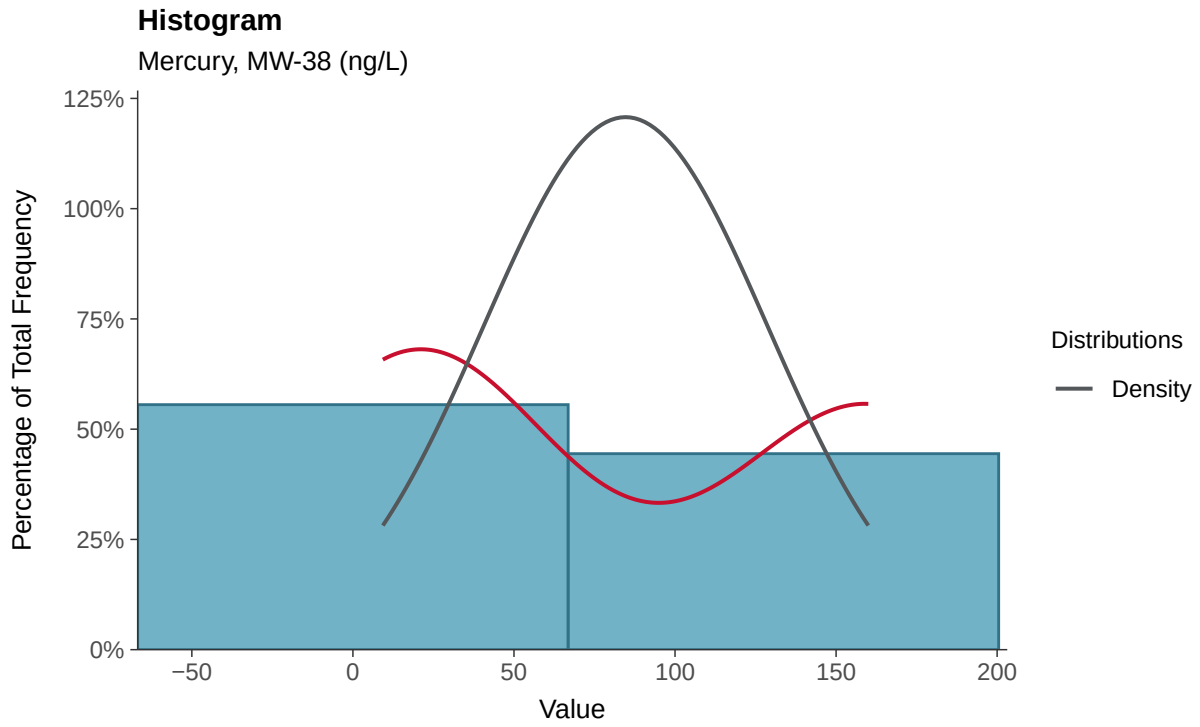
Lithium, MW-38 (mg/L)



Appendix IV: Mercury, MW-38

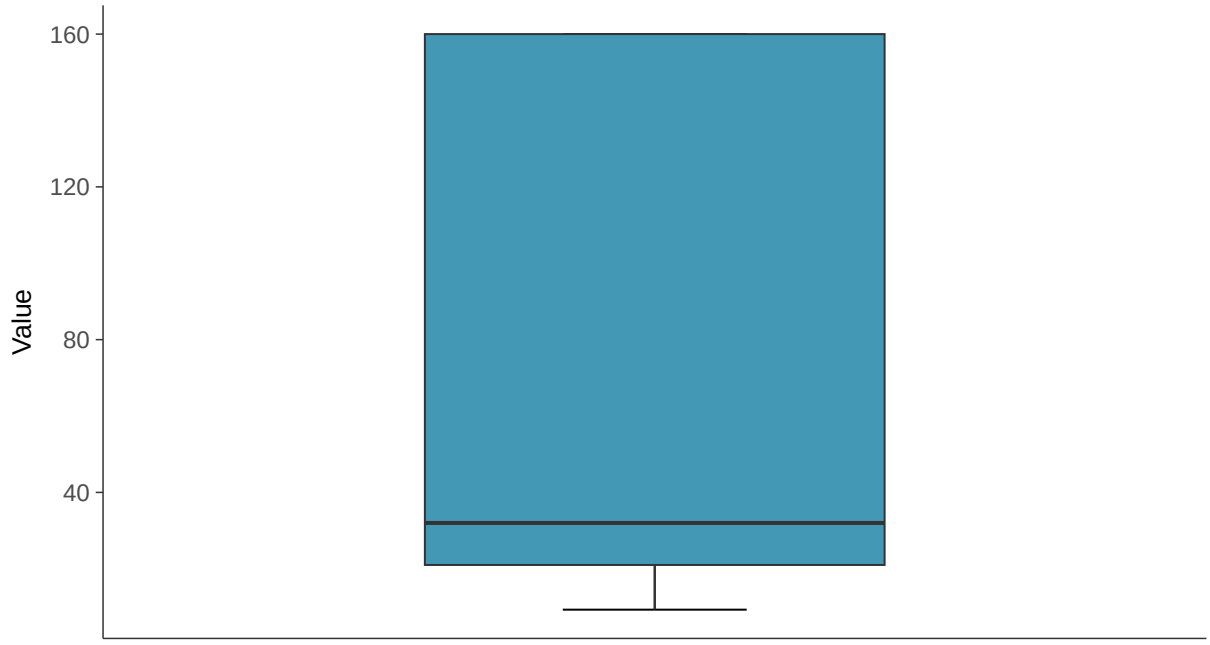
ID: 48_2_4_117





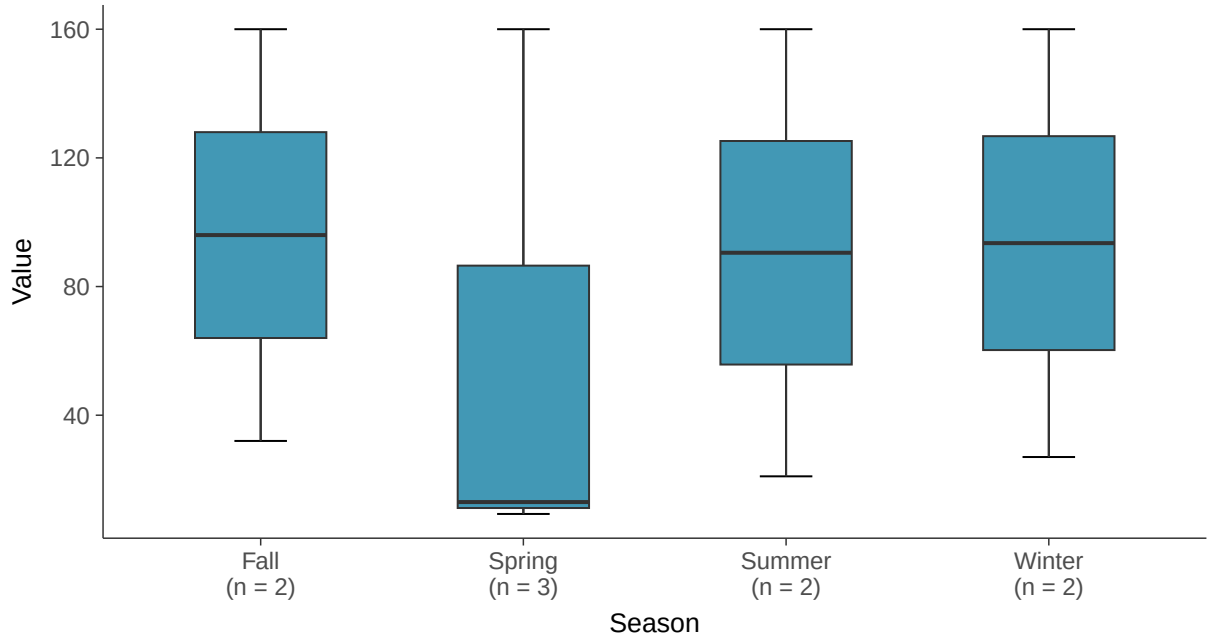
Boxplot

Mercury, MW-38 (ng/L)



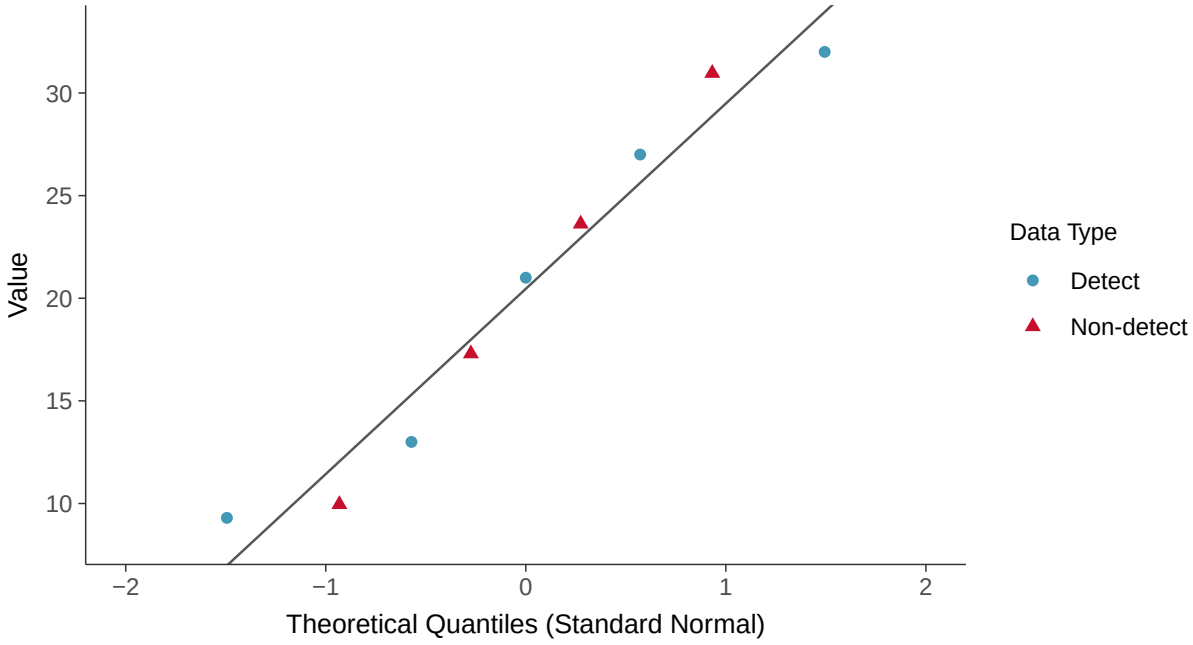
Boxplot by Season

Mercury, MW-38 (ng/L)



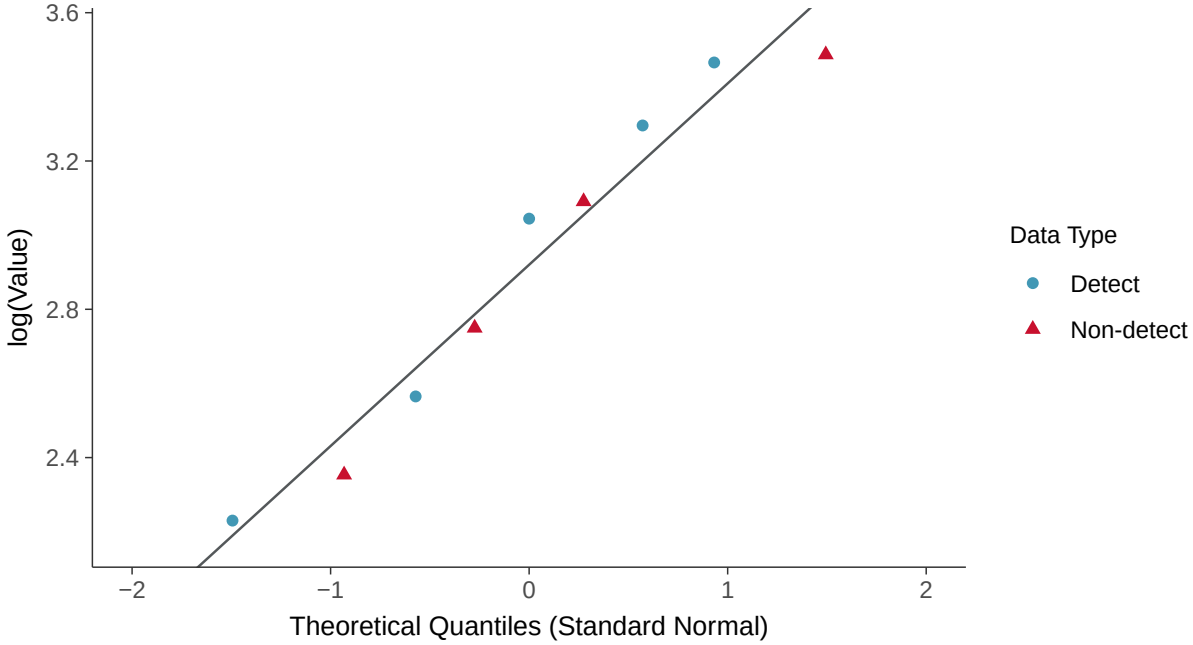
Normal Q-Q plot using ROS Imputed Estimates

Mercury, MW-38 (ng/L)



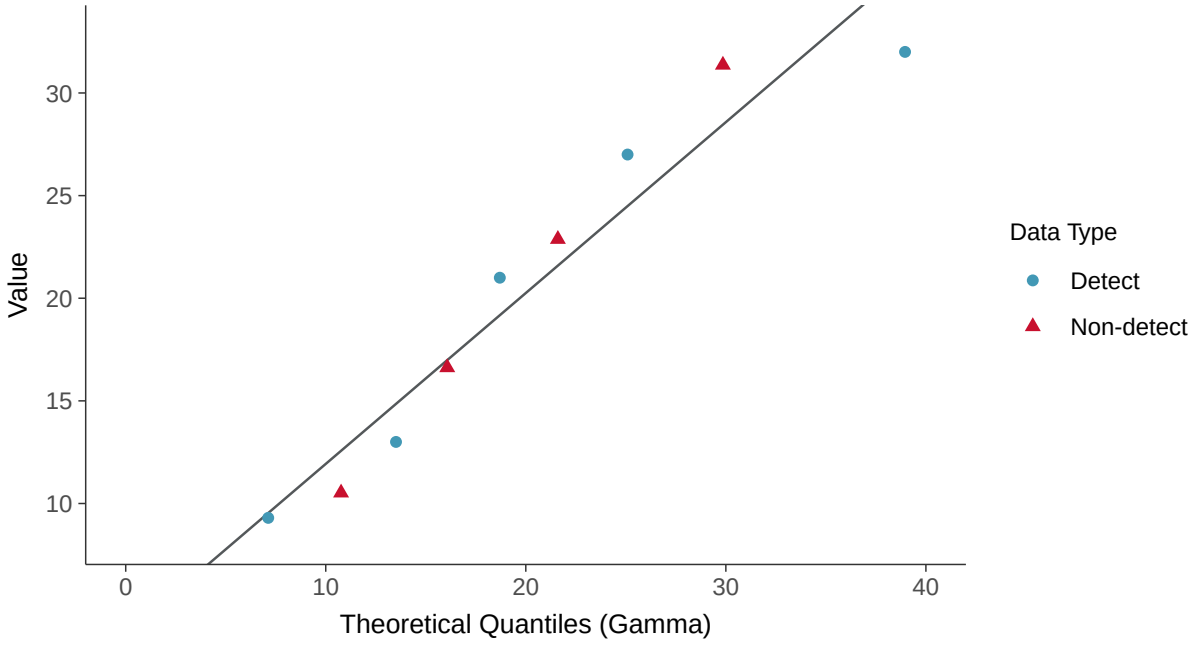
Lognormal Q-Q plot using ROS Imputed Estimates

Mercury, MW-38 (ng/L)



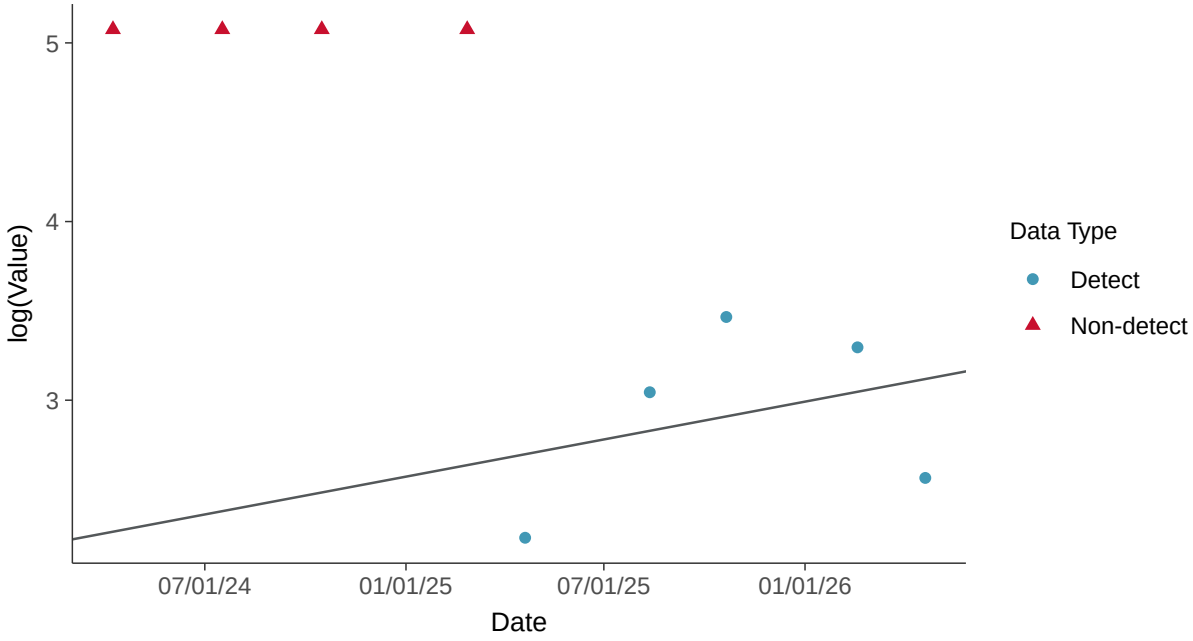
Gamma Q-Q plot using ROS Imputed Estimates

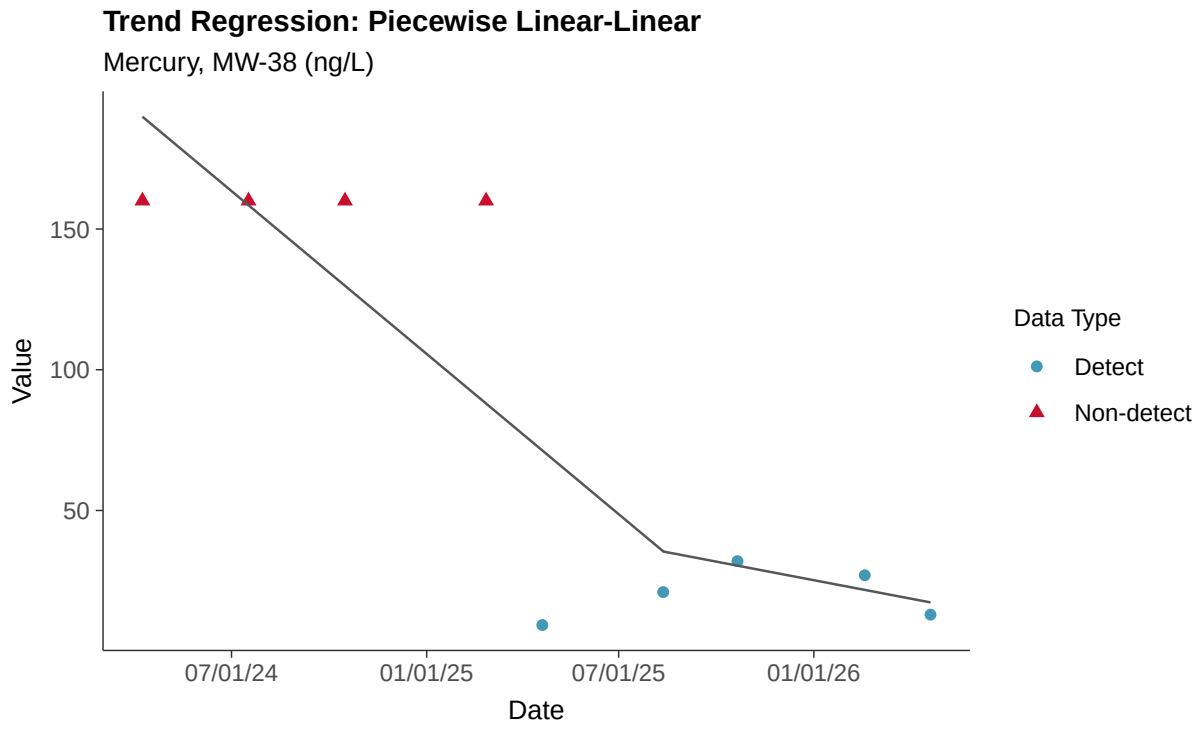
Mercury, MW-38 (ng/L)



Trend Regression: Lognormal MLE

Mercury, MW-38 (ng/L)



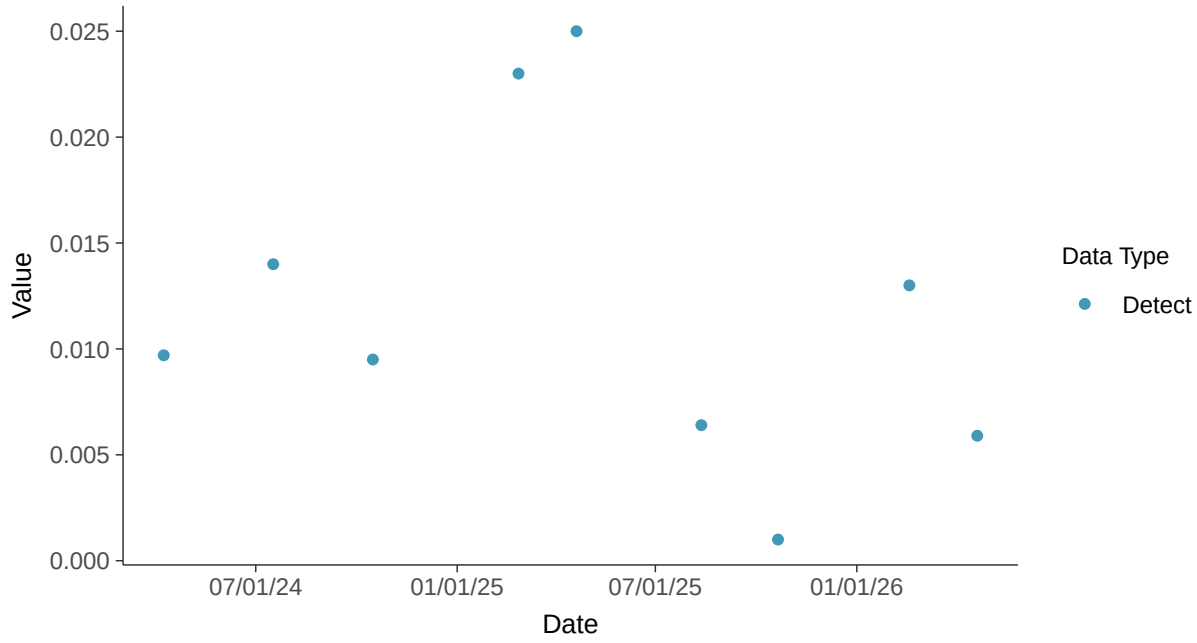

Trend Regression: Piecewise Linear-Linear
Mercury, MW-38 (ng/L)
Value
150
100
50
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Appendix IV: Molybdenum, MW-38

ID: 48_2_4_118

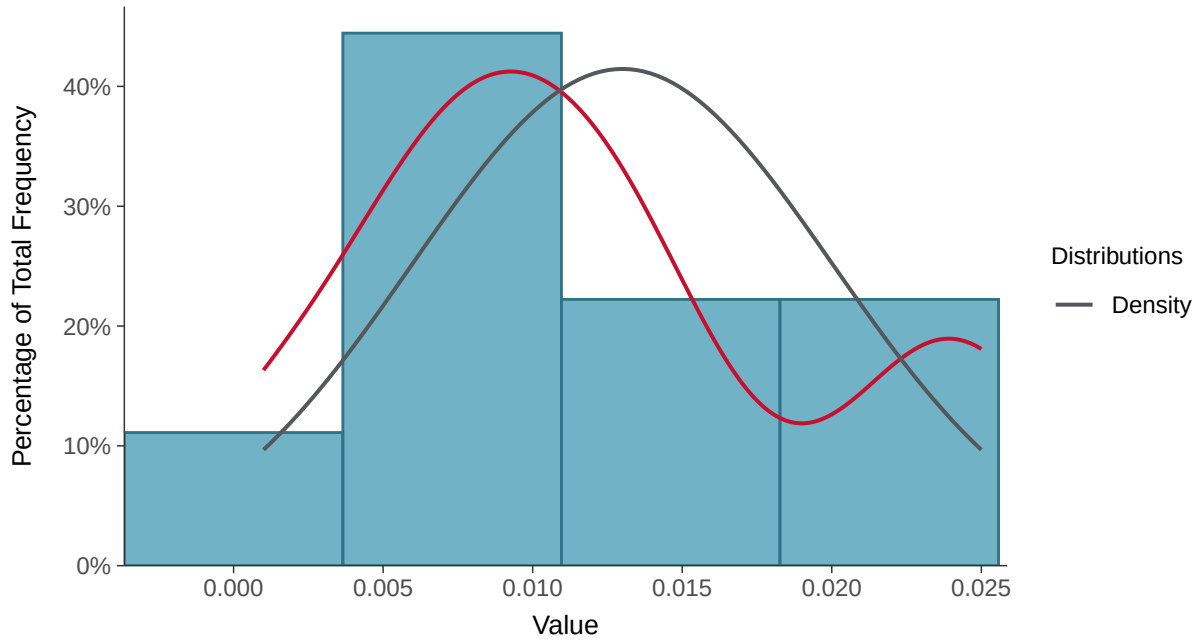
Scatter Plot

Molybdenum, MW-38 (mg/L)



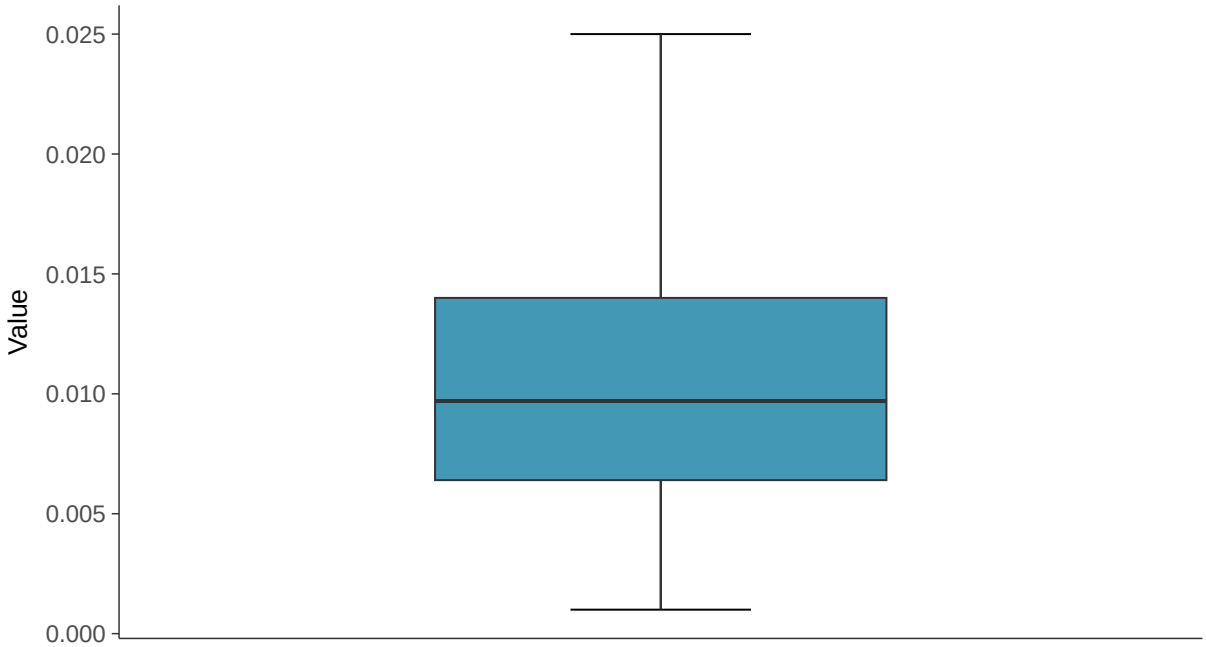
Histogram

Molybdenum, MW-38 (mg/L)



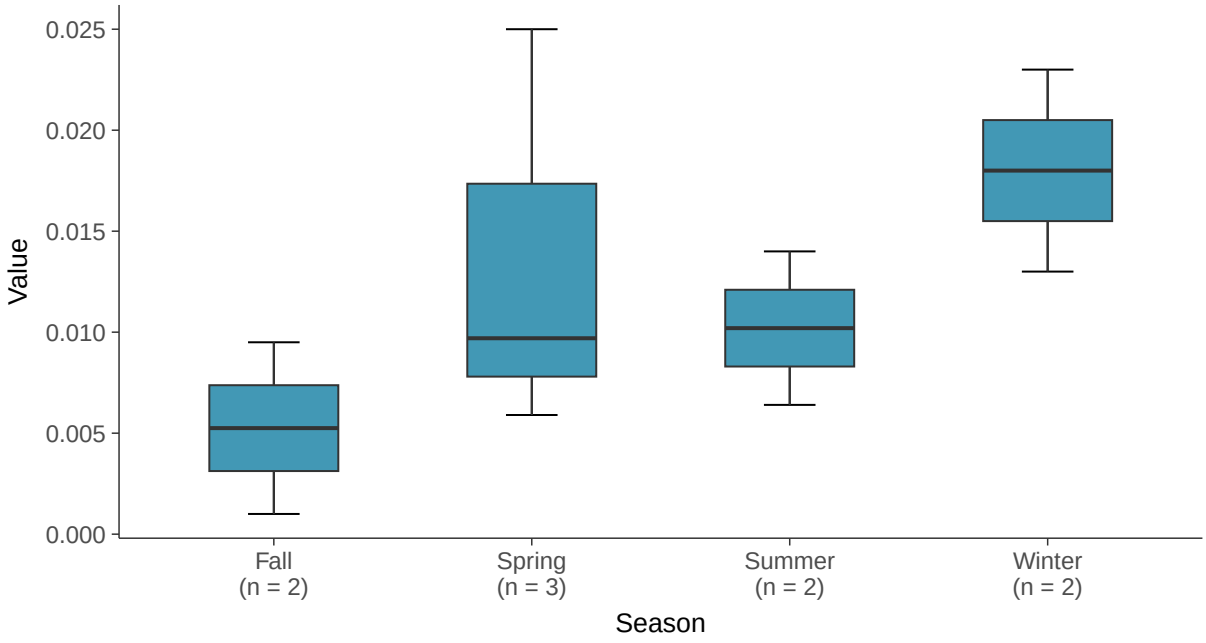
Boxplot

Molybdenum, MW-38 (mg/L)



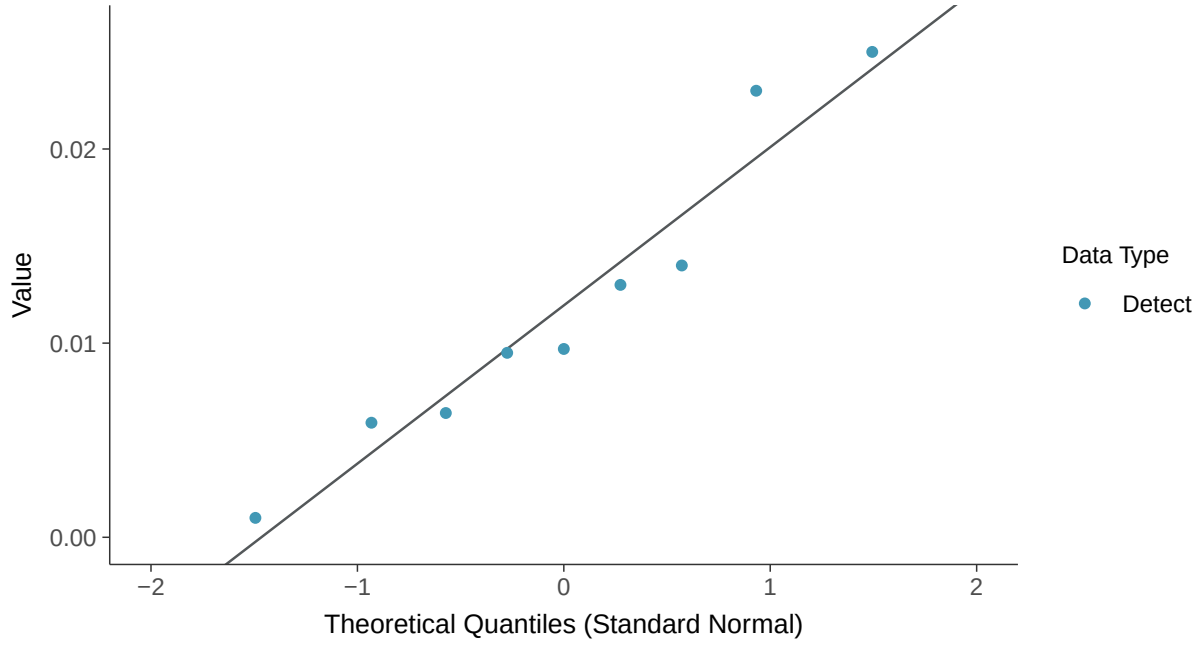
Boxplot by Season

Molybdenum, MW-38 (mg/L)



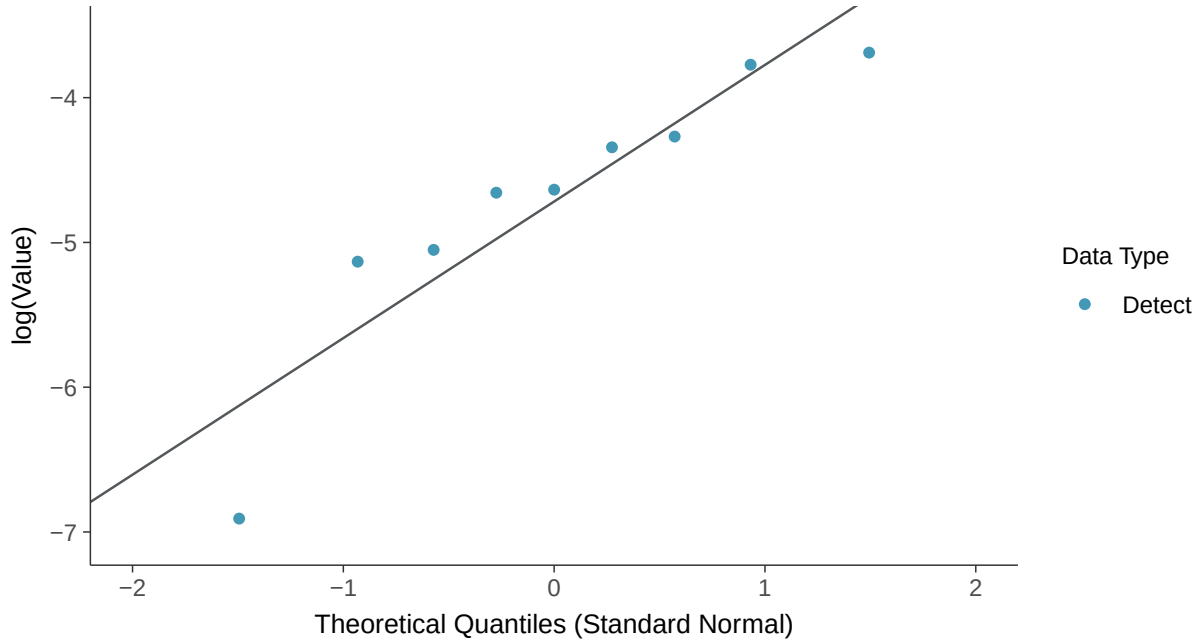
Normal Q-Q plot

Molybdenum, MW-38 (mg/L)



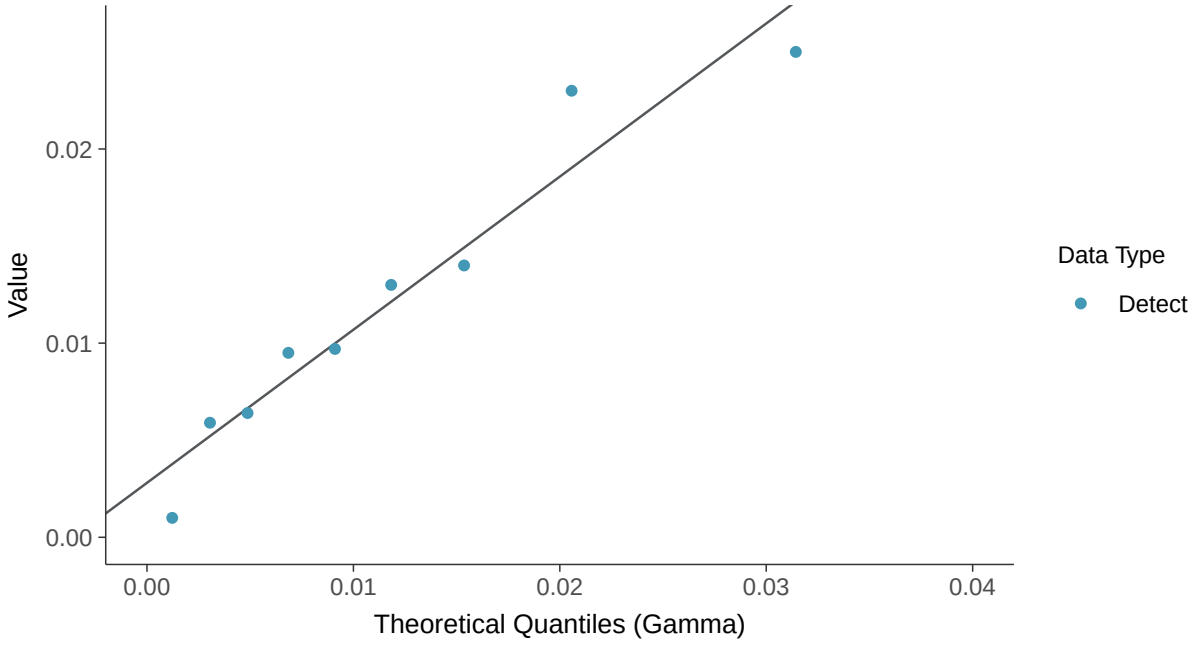
Lognormal Q-Q plot

Molybdenum, MW-38 (mg/L)



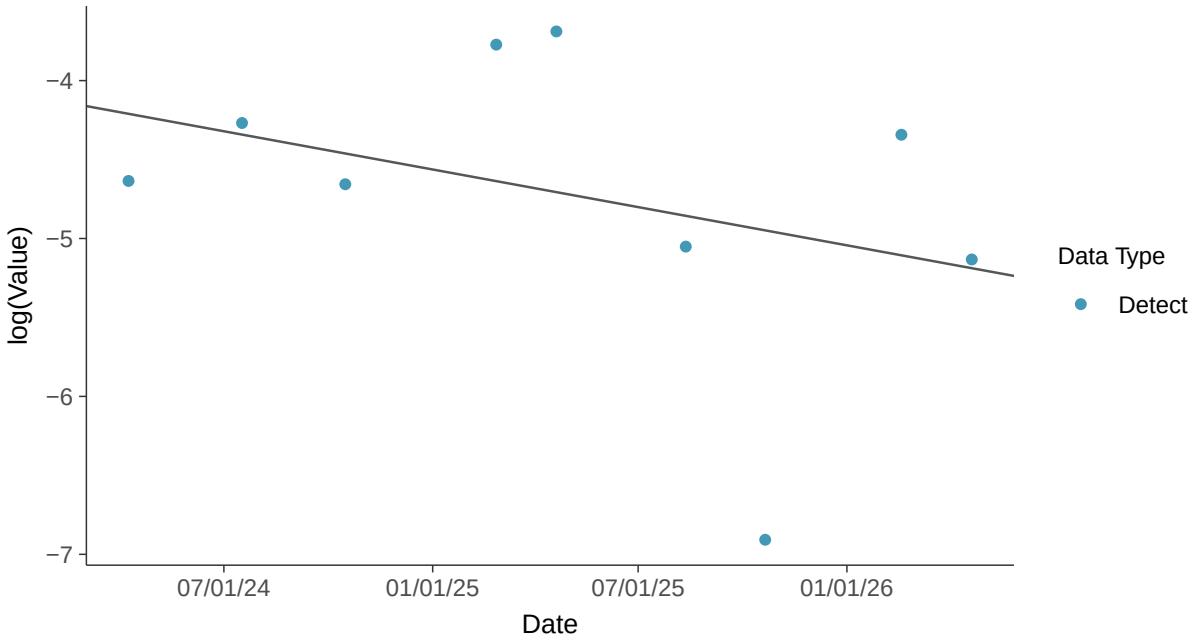
Gamma Q-Q plot

Molybdenum, MW-38 (mg/L)



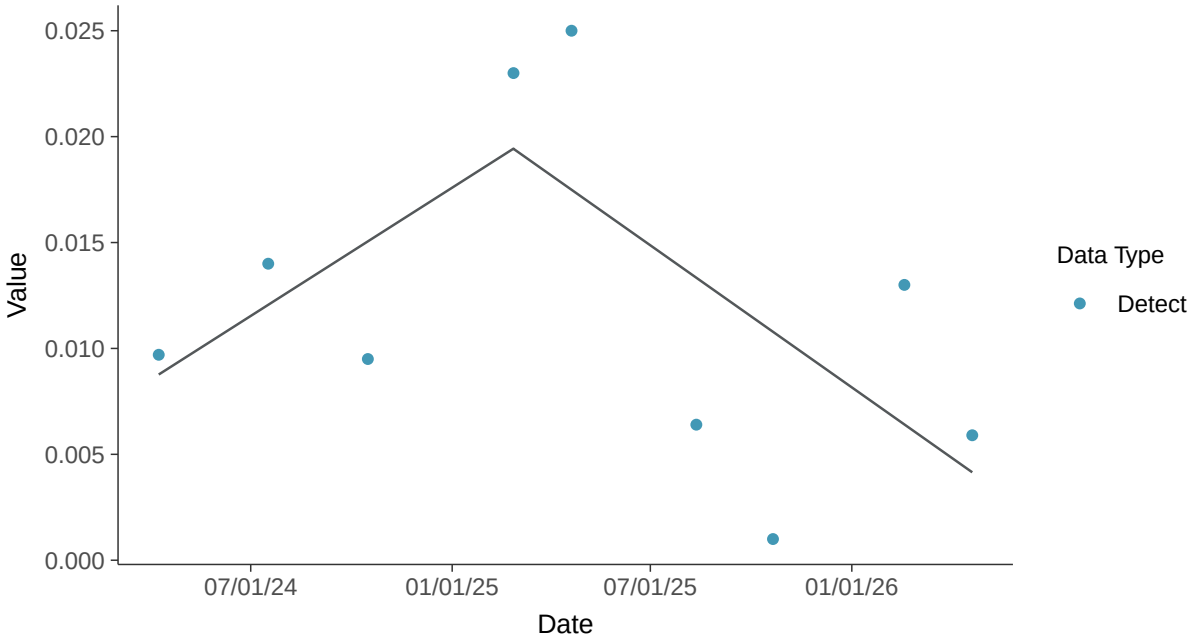
Trend Regression: Lognormal MLE

Molybdenum, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear

Molybdenum, MW-38 (mg/L)

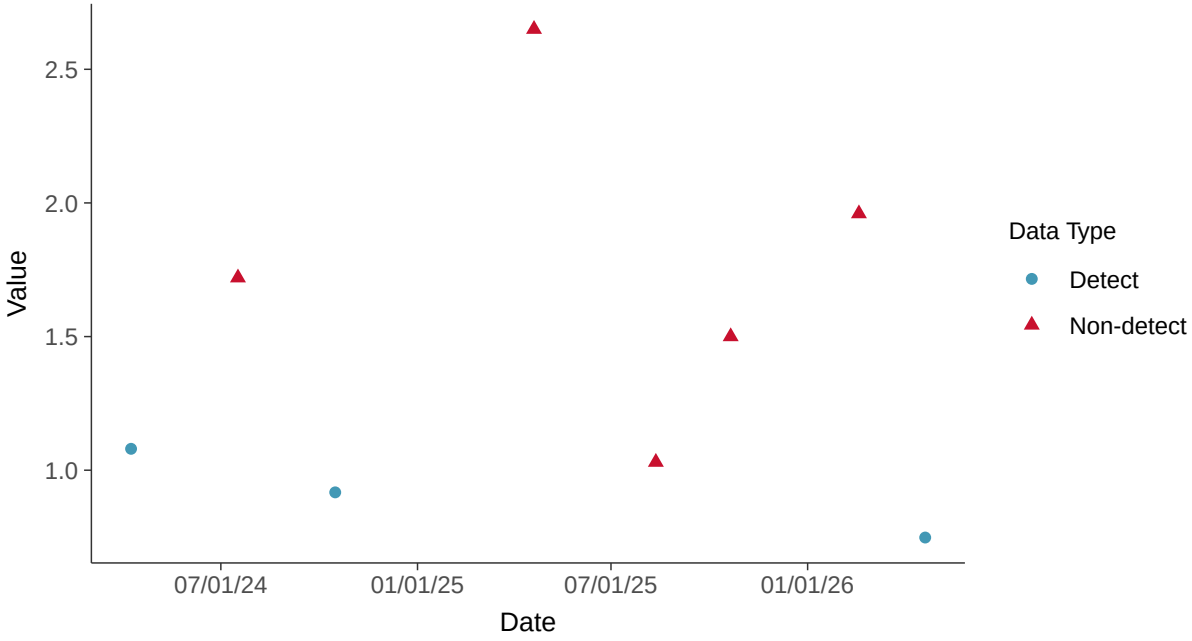


Appendix IV: Radium 226 and 228, MW-38

ID: 48_2_4_121

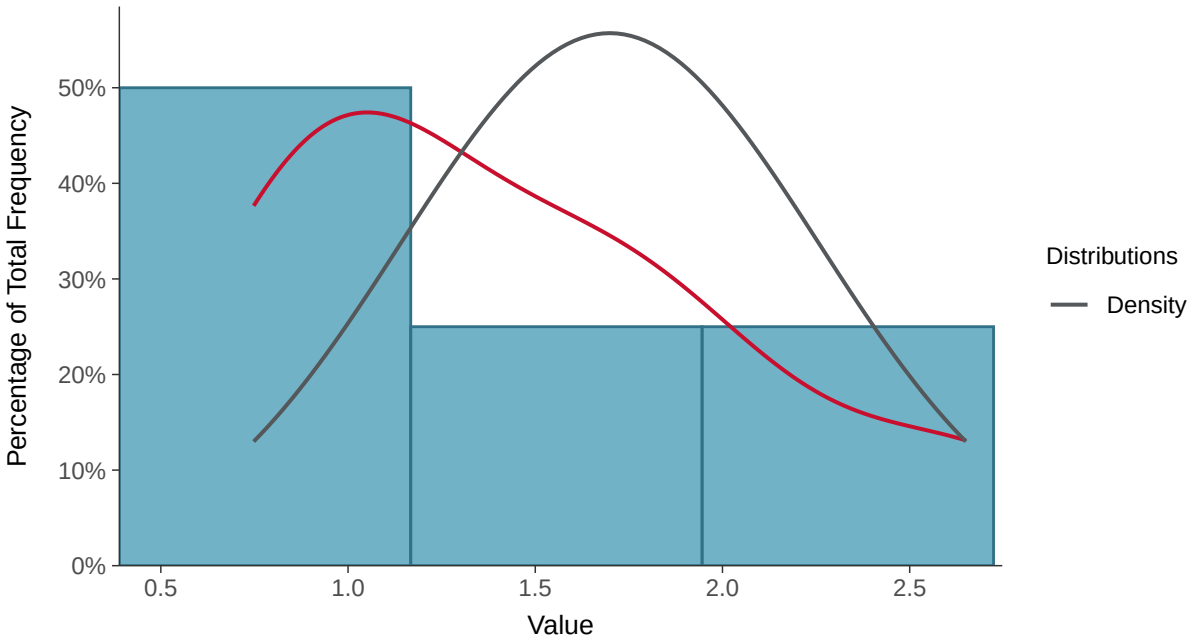
Scatter Plot

Radium 226 and 228, MW-38 (pCi/L)



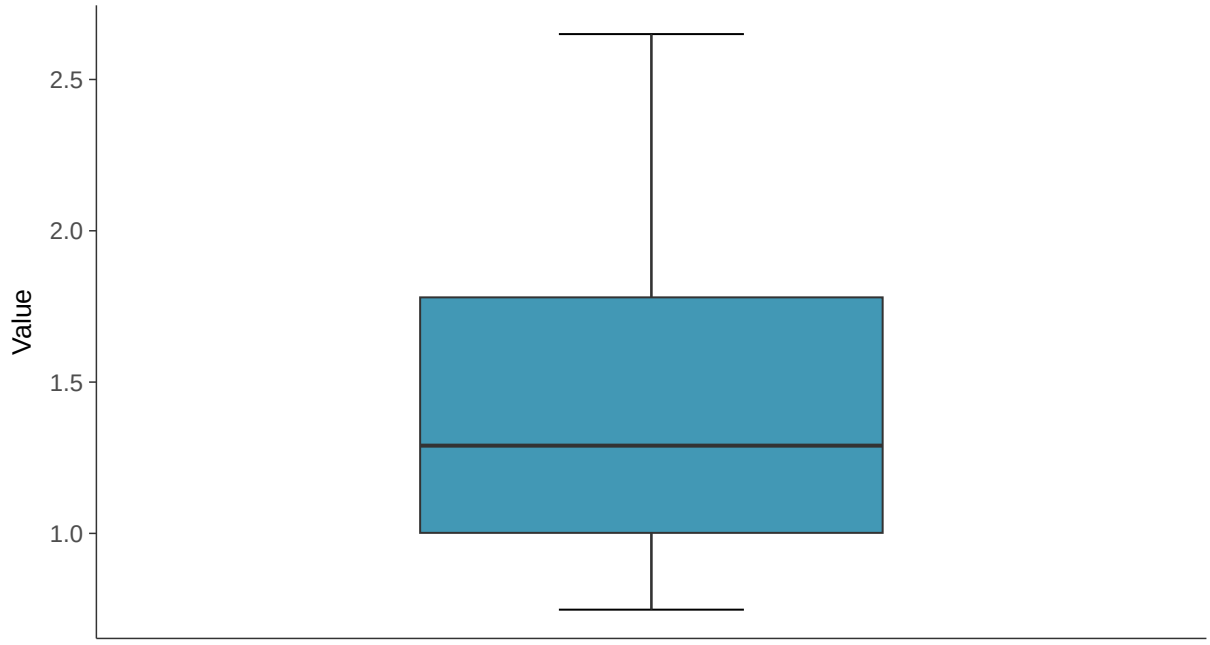
Histogram

Radium 226 and 228, MW-38 (pCi/L)



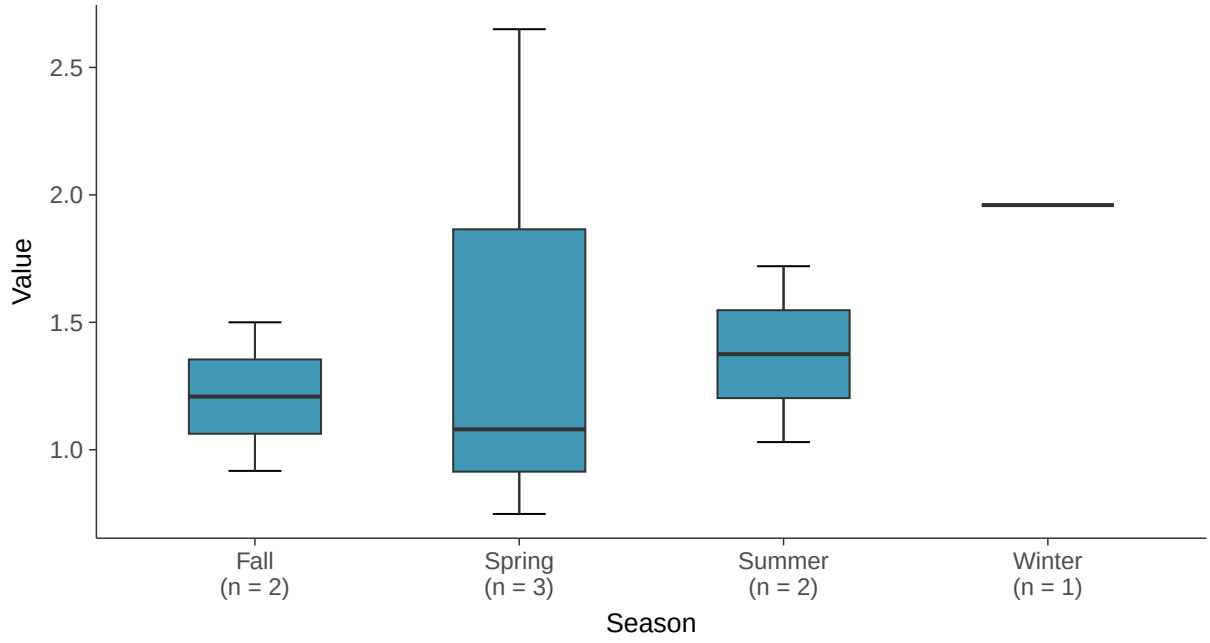
Boxplot

Radium 226 and 228, MW-38 (pCi/L)



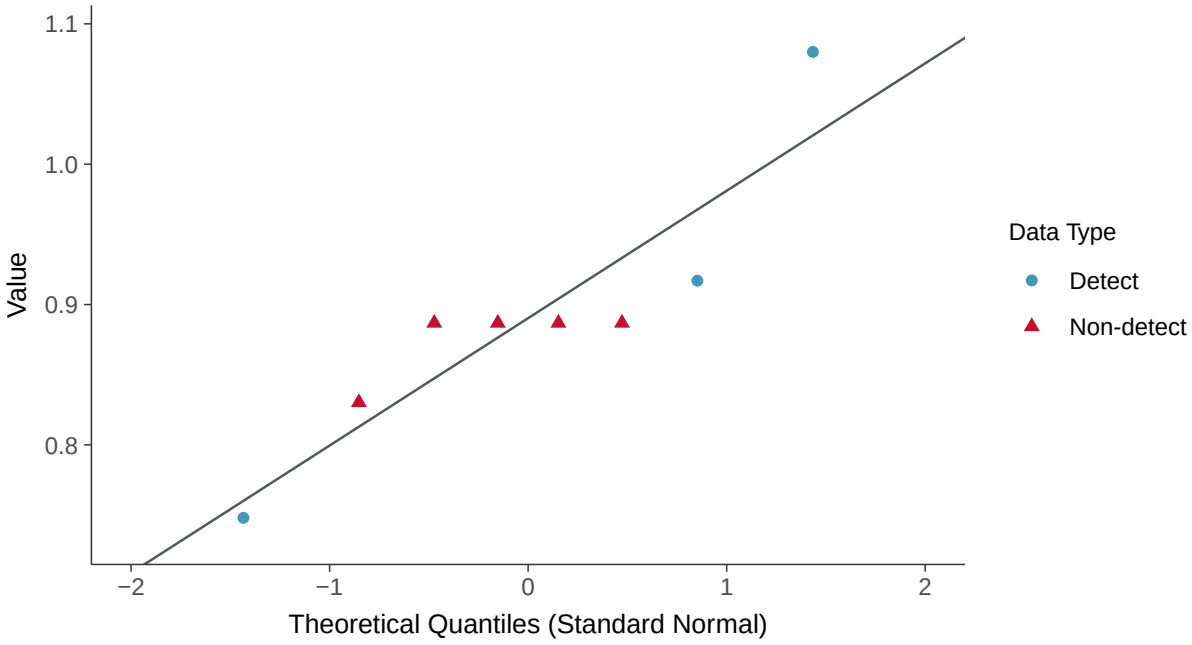
Boxplot by Season

Radium 226 and 228, MW-38 (pCi/L)



Normal Q-Q plot using ROS Imputed Estimates

Radium 226 and 228, MW-38 (pCi/L)

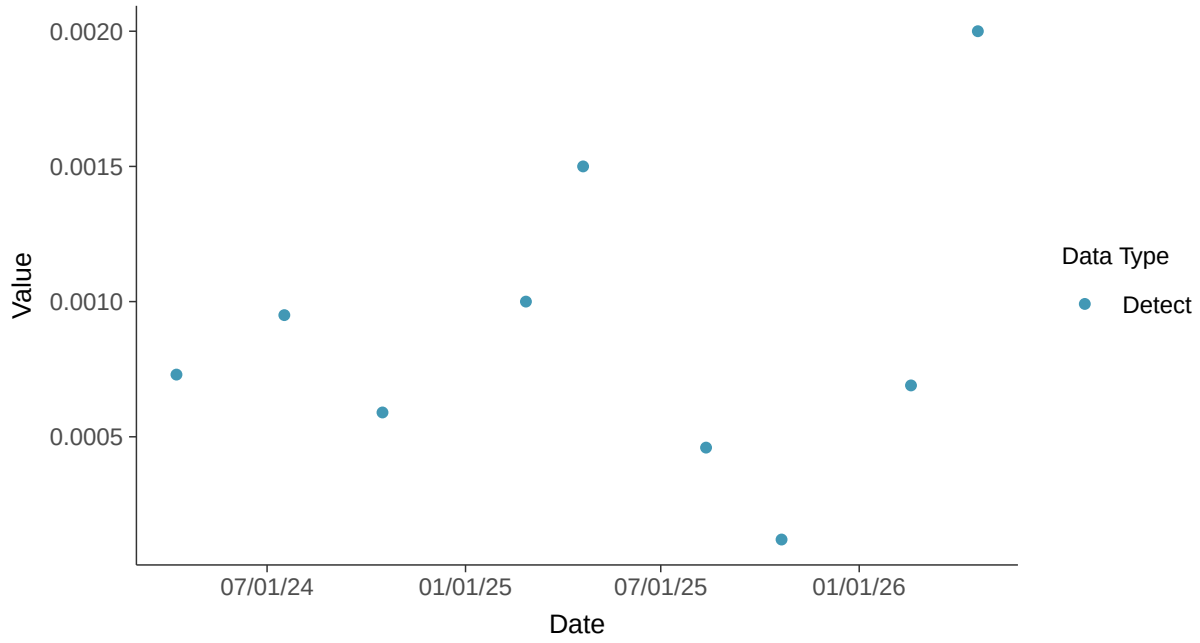


Appendix IV: Selenium, MW-38

ID: 48_2_4_122

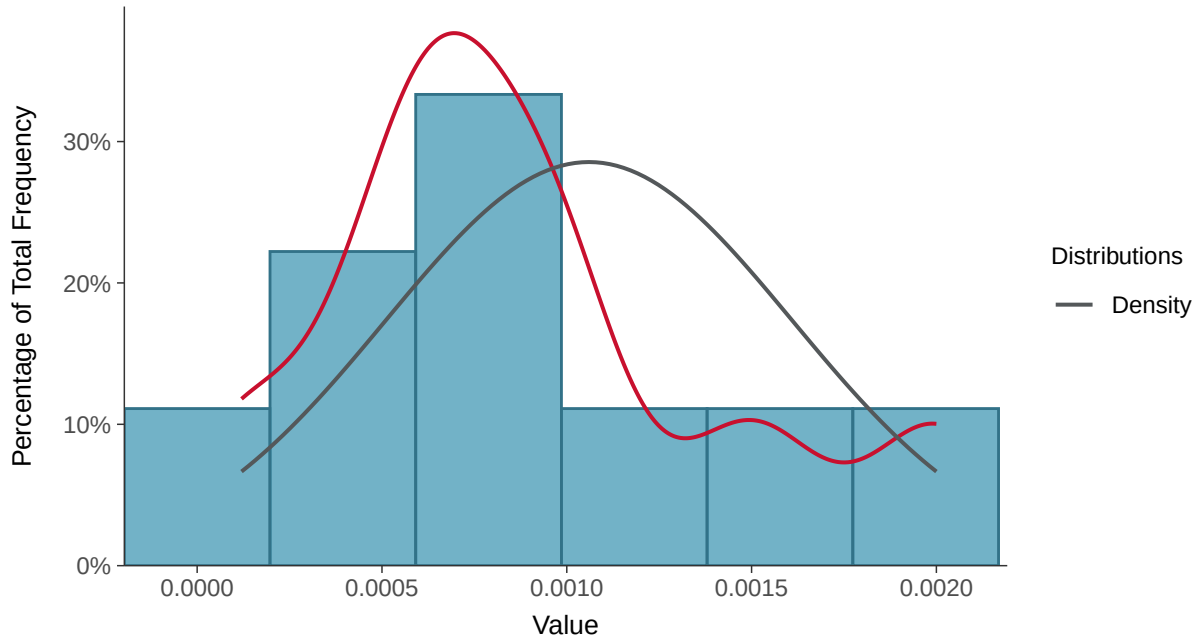
Scatter Plot

Selenium, MW-38 (mg/L)



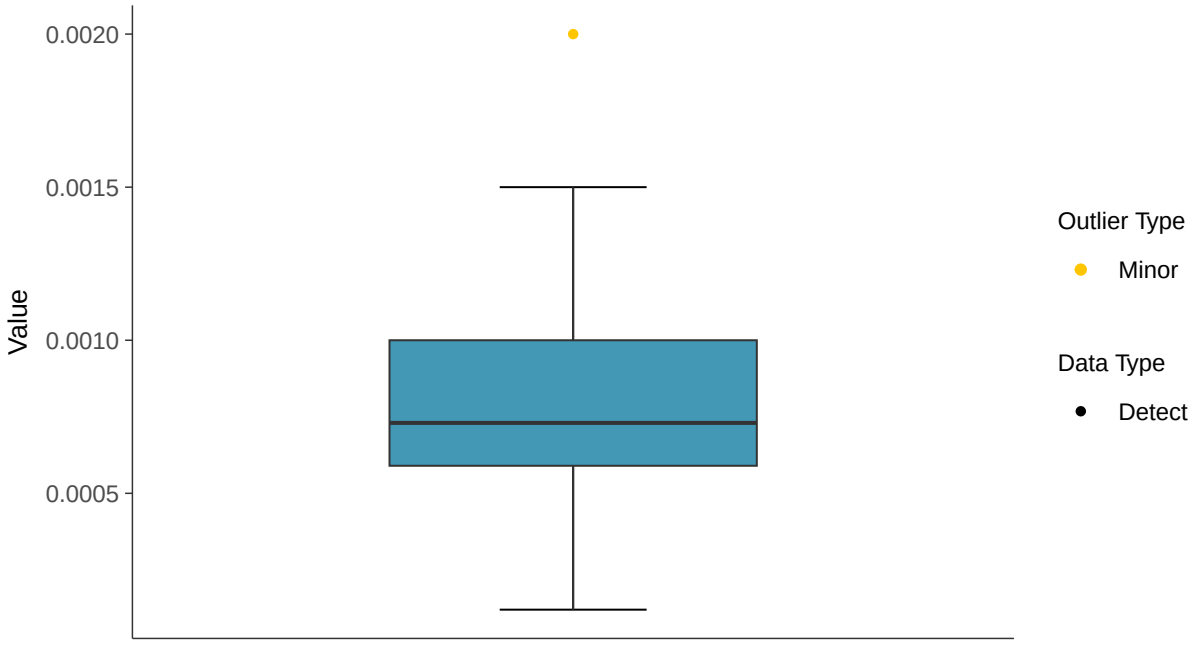
Histogram

Selenium, MW-38 (mg/L)



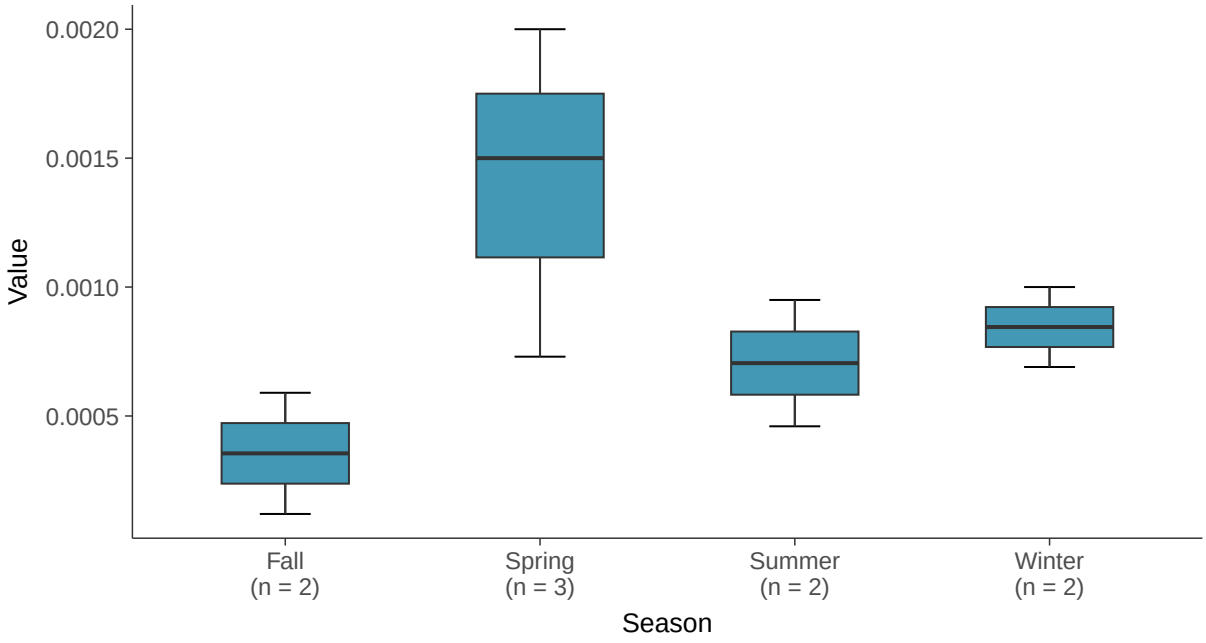
Boxplot

Selenium, MW-38 (mg/L)



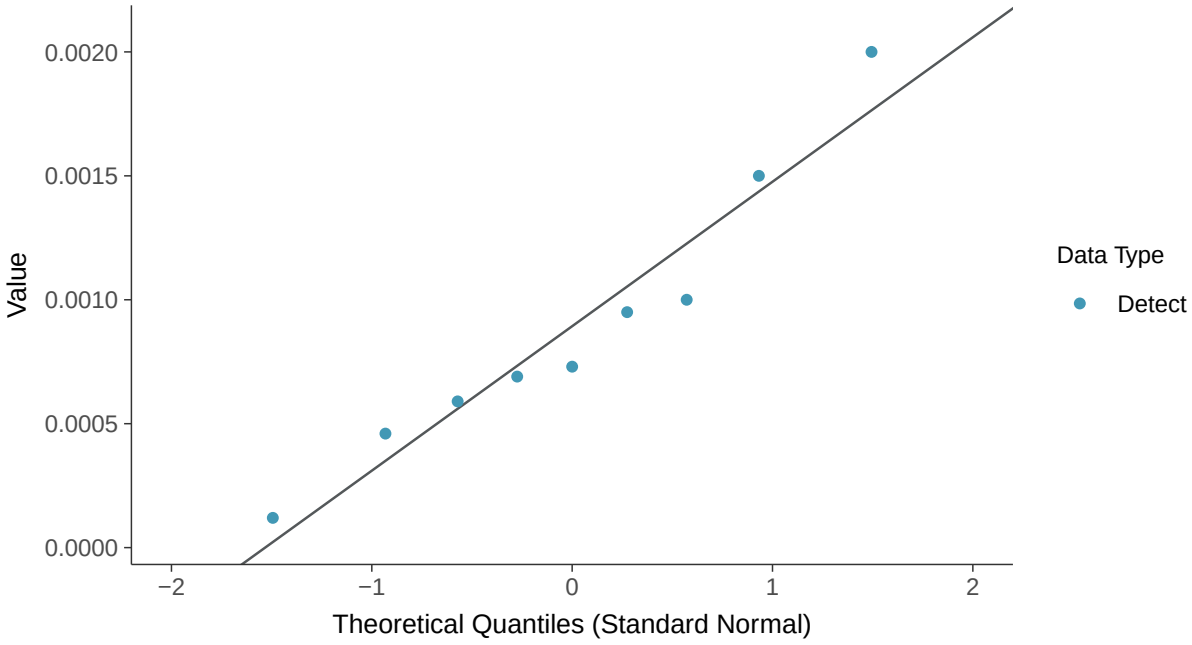
Boxplot by Season

Selenium, MW-38 (mg/L)



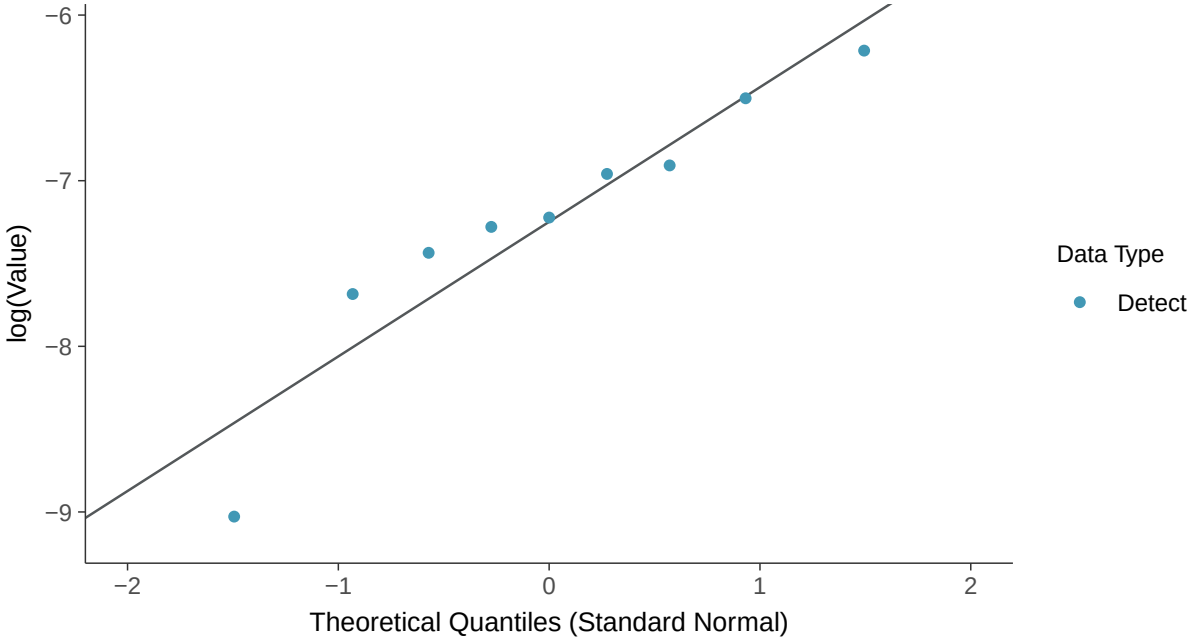
Normal Q-Q plot

Selenium, MW-38 (mg/L)



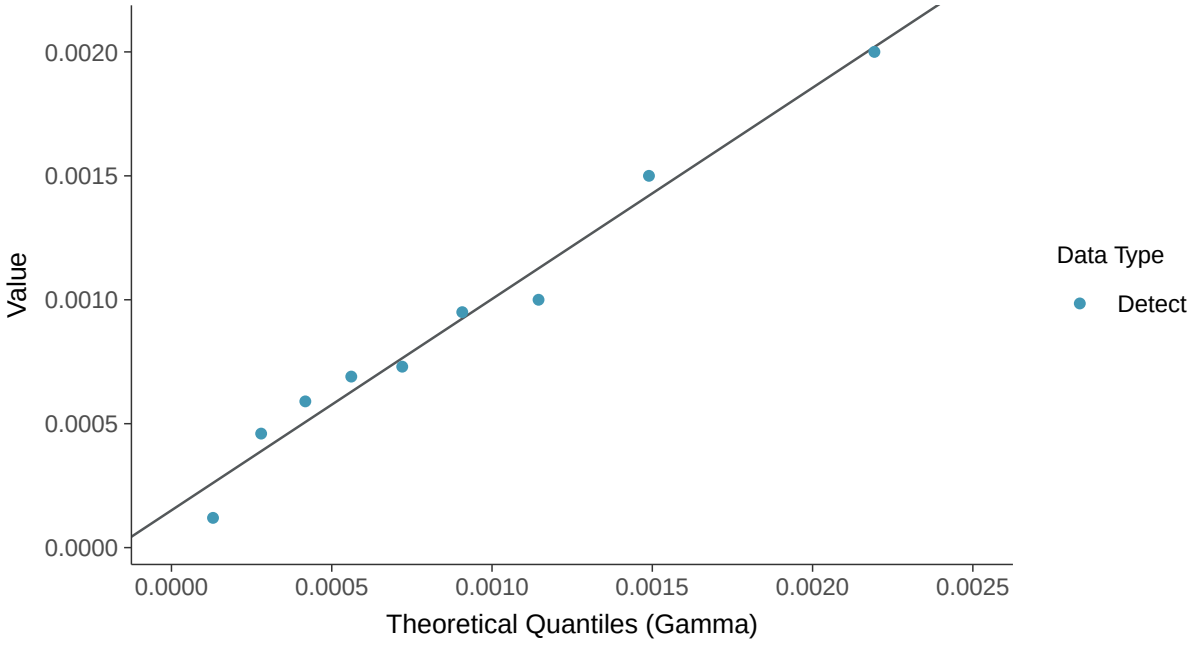
Lognormal Q-Q plot

Selenium, MW-38 (mg/L)



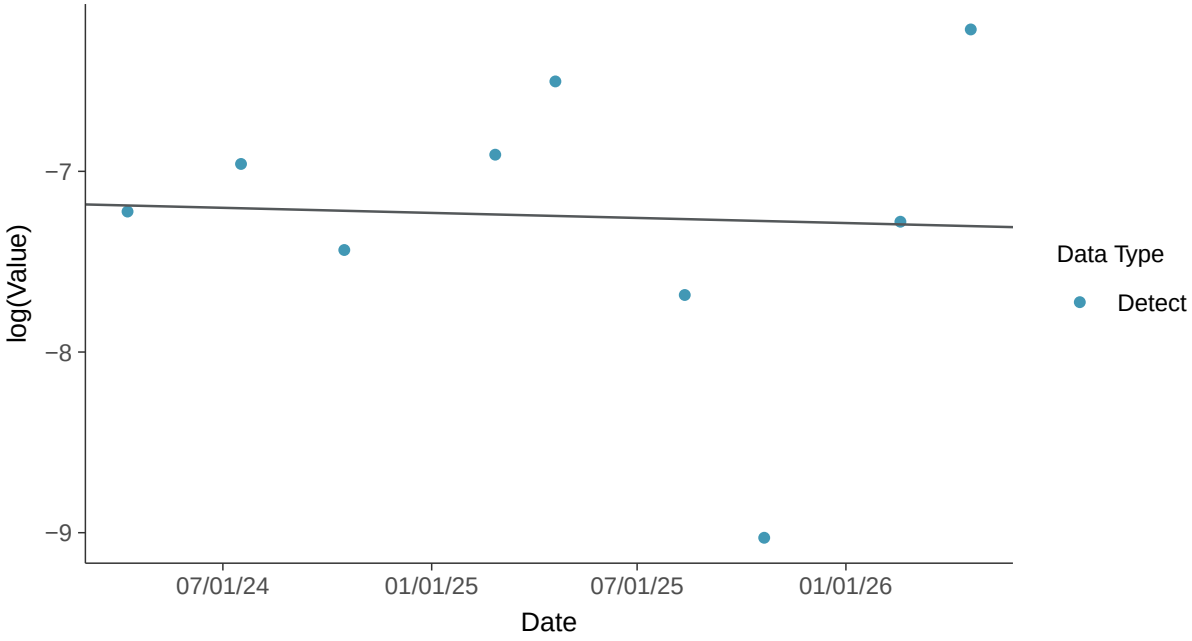
Gamma Q-Q plot

Selenium, MW-38 (mg/L)



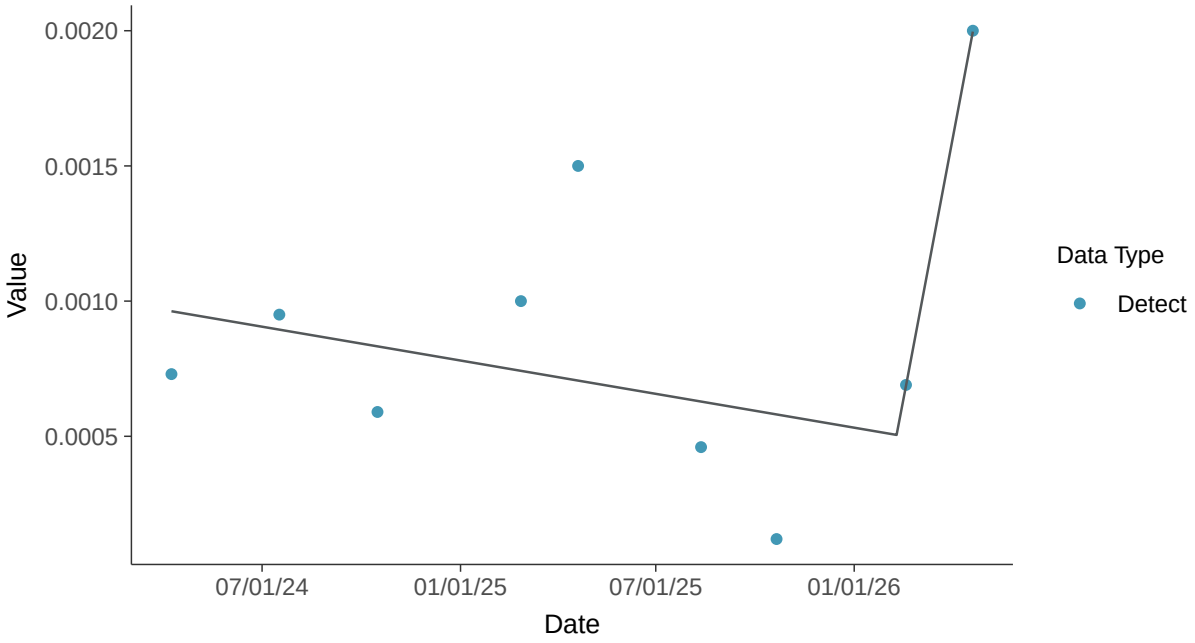
Trend Regression: Lognormal MLE

Selenium, MW-38 (mg/L)



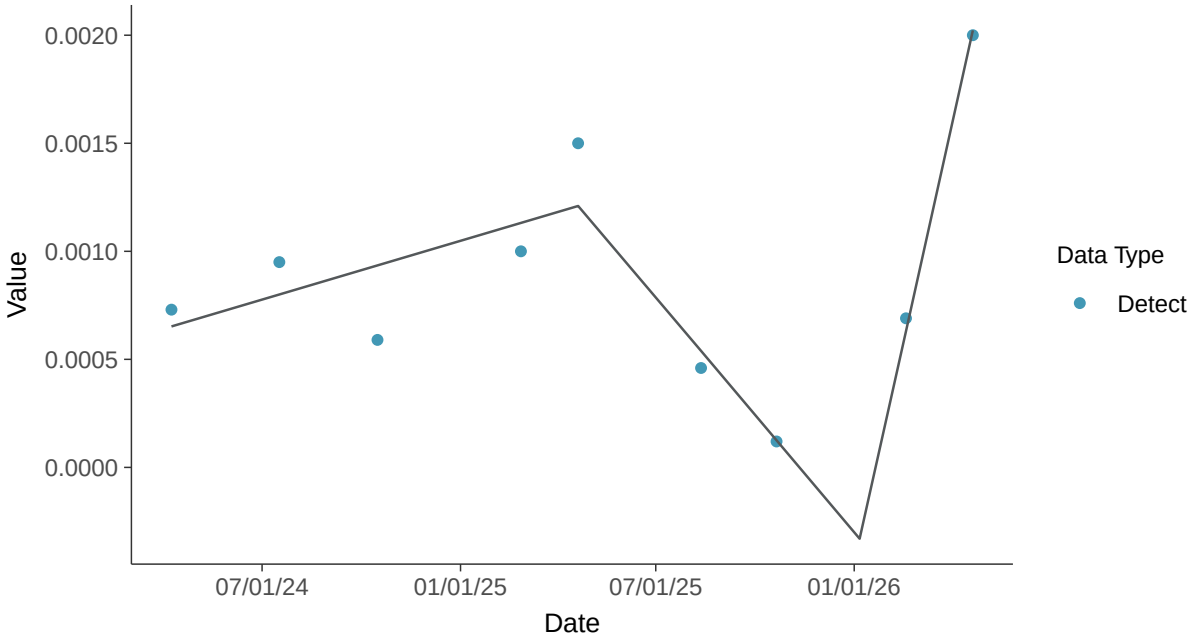
Trend Regression: Piecewise Linear-Linear

Selenium, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Selenium, MW-38 (mg/L)

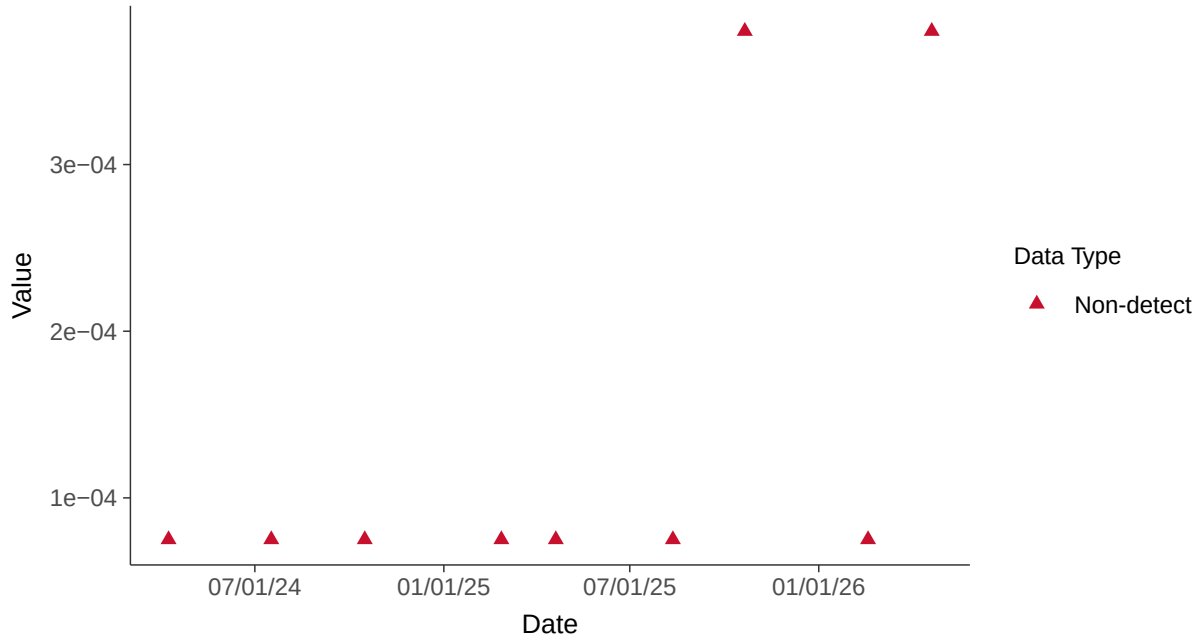


Appendix IV: Thallium, MW-38

ID: 48_2_4_125

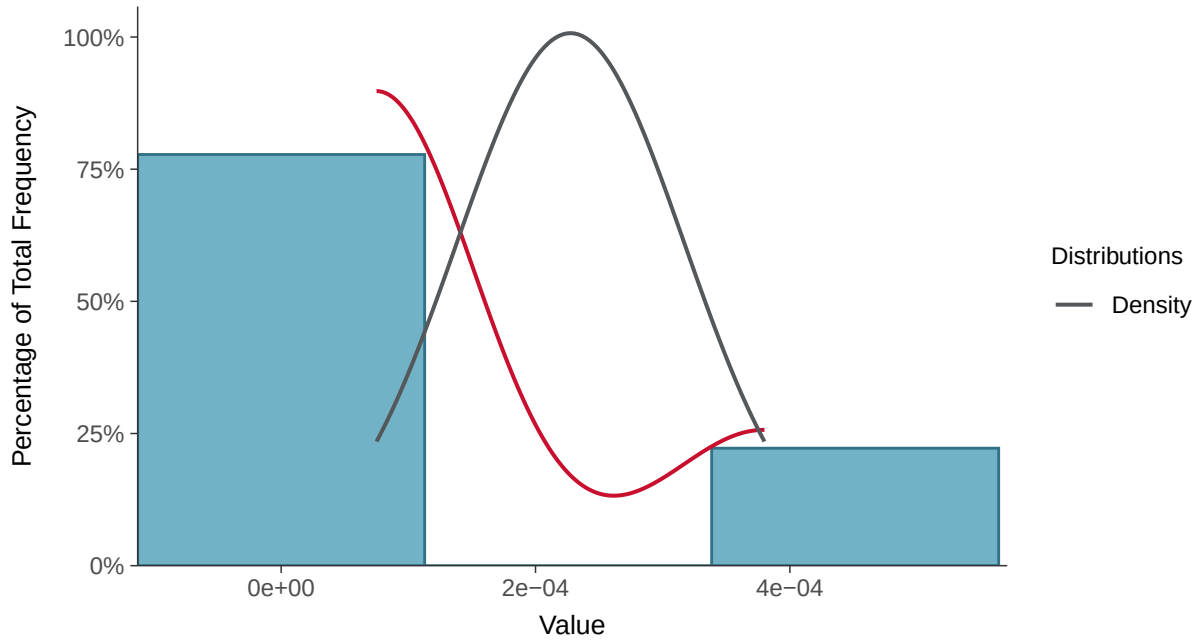
Scatter Plot

Thallium, MW-38 (mg/L)



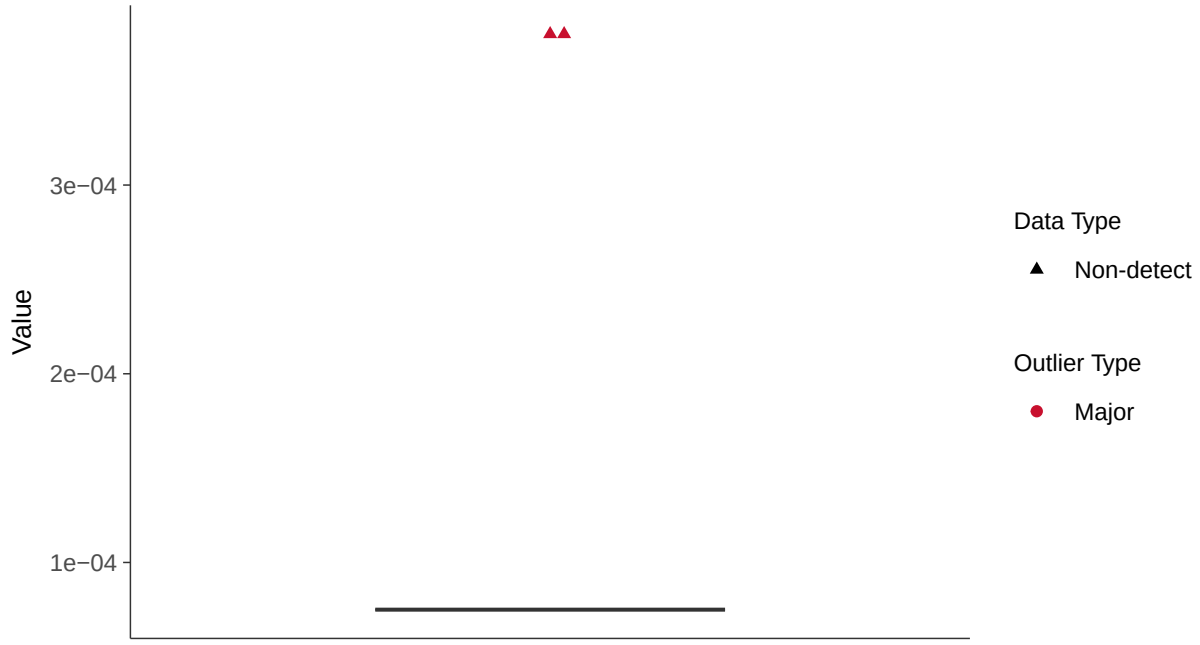
Histogram

Thallium, MW-38 (mg/L)



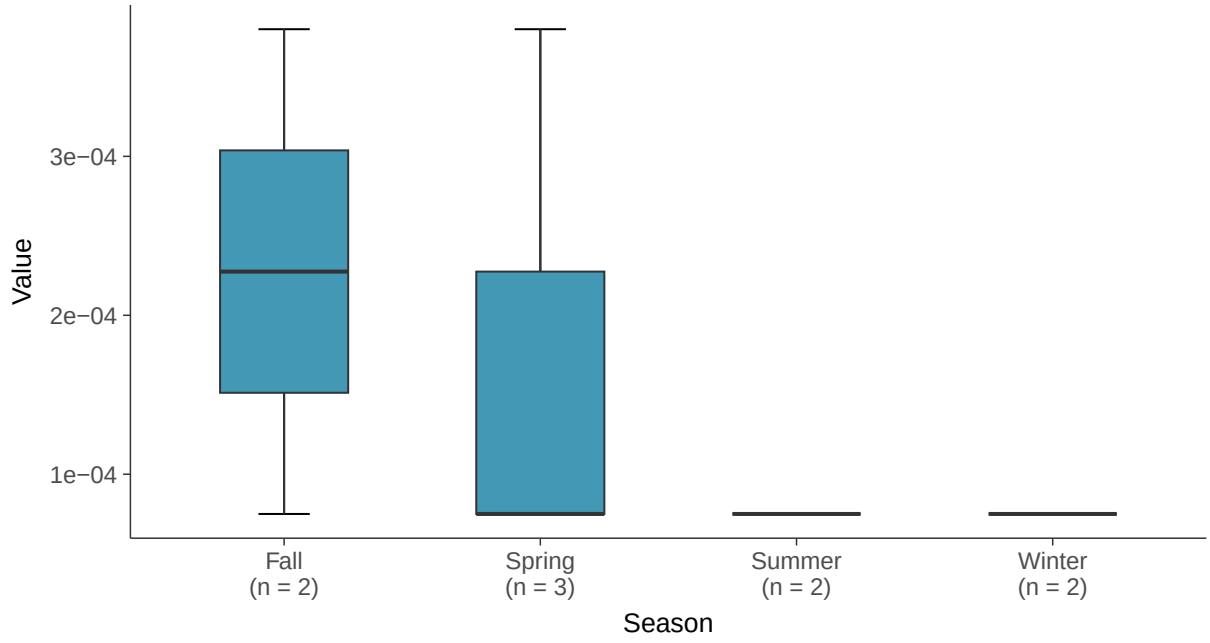
Boxplot

Thallium, MW-38 (mg/L)



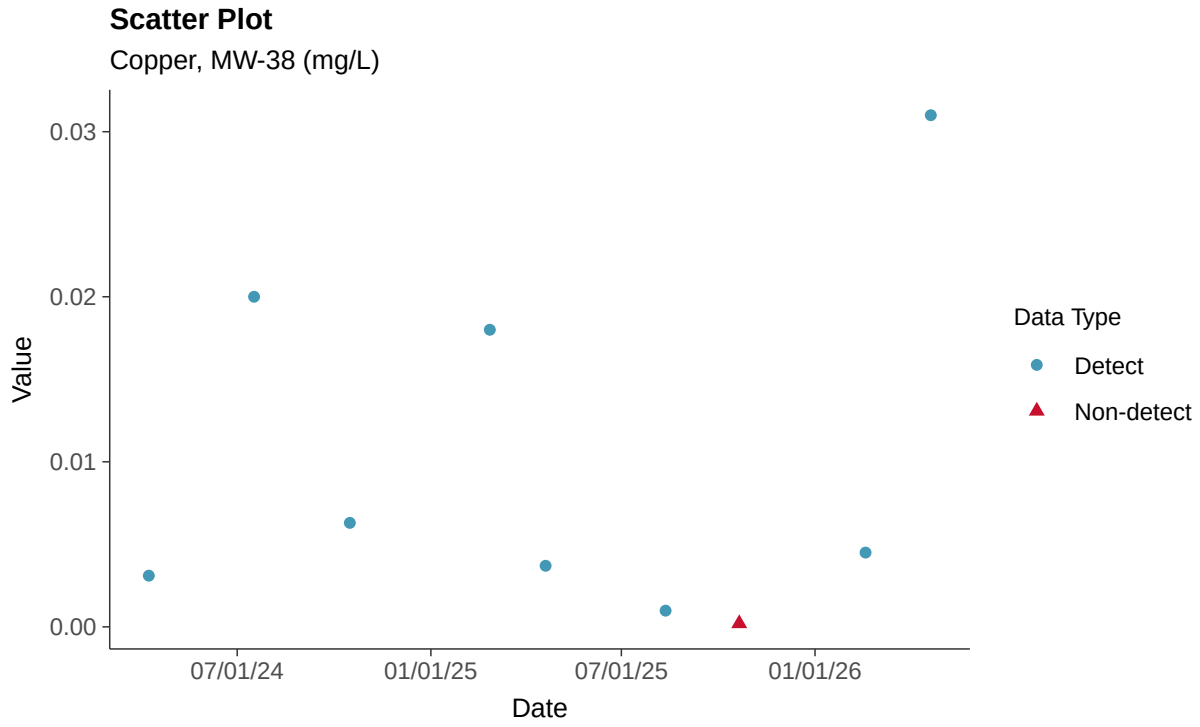
Boxplot by Season

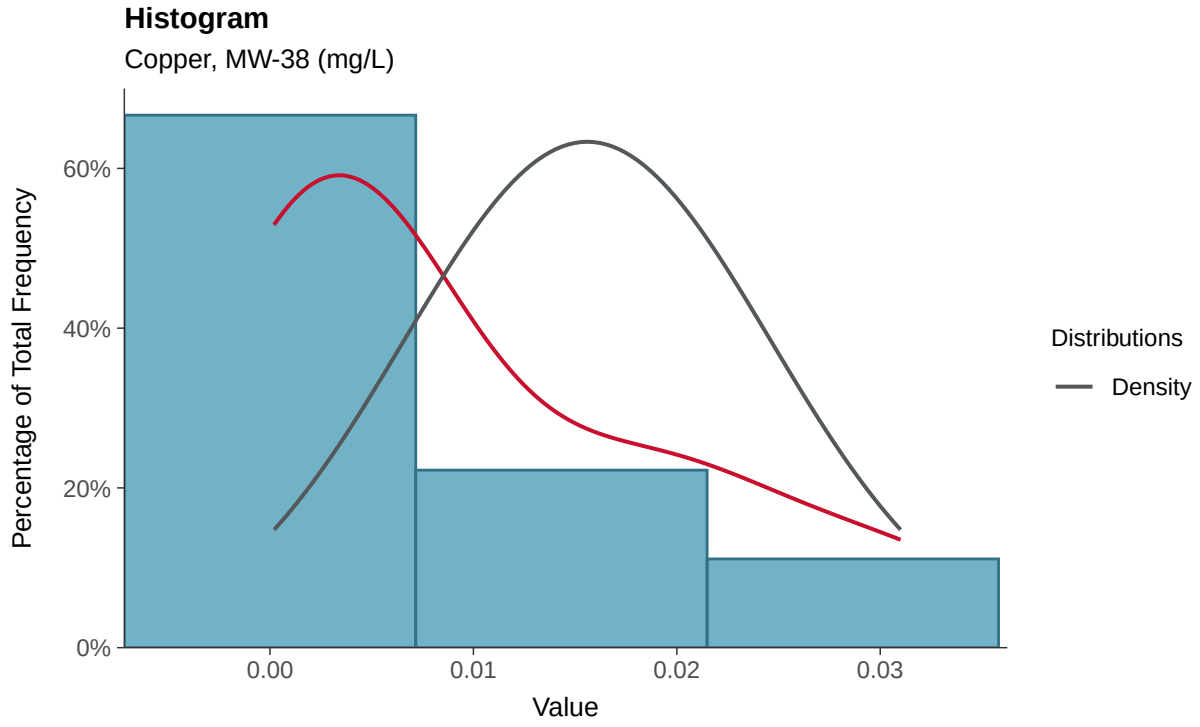
Thallium, MW-38 (mg/L)



Part 115: Copper, MW-38

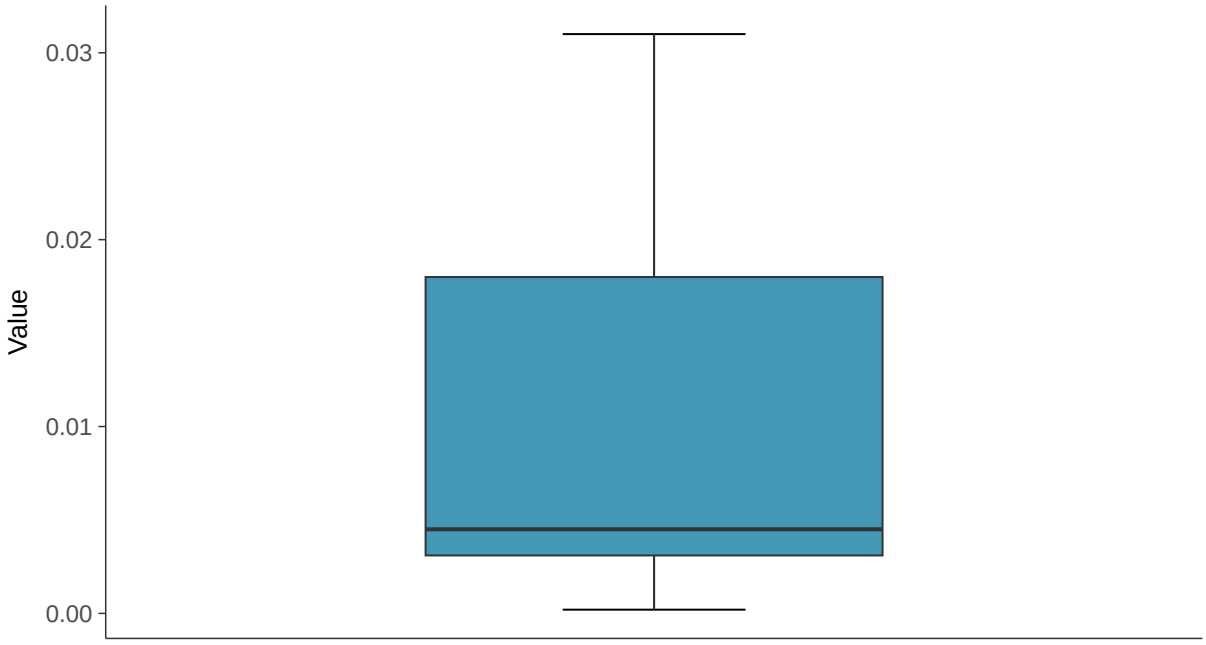
ID: 48_2_5_111





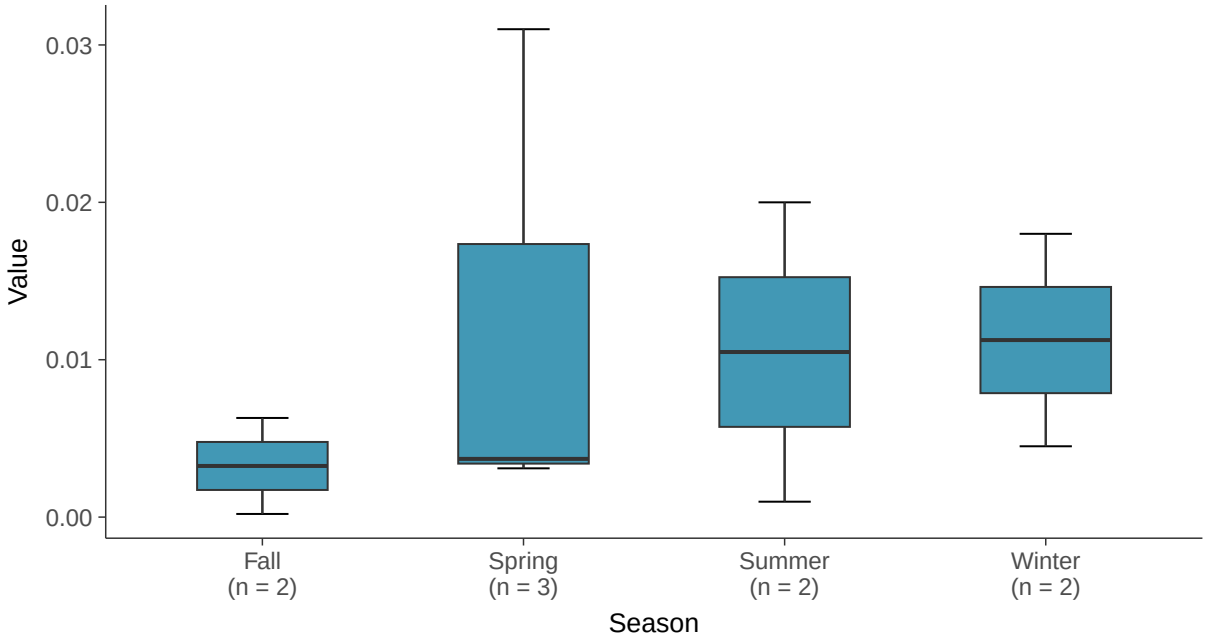
Boxplot

Copper, MW-38 (mg/L)



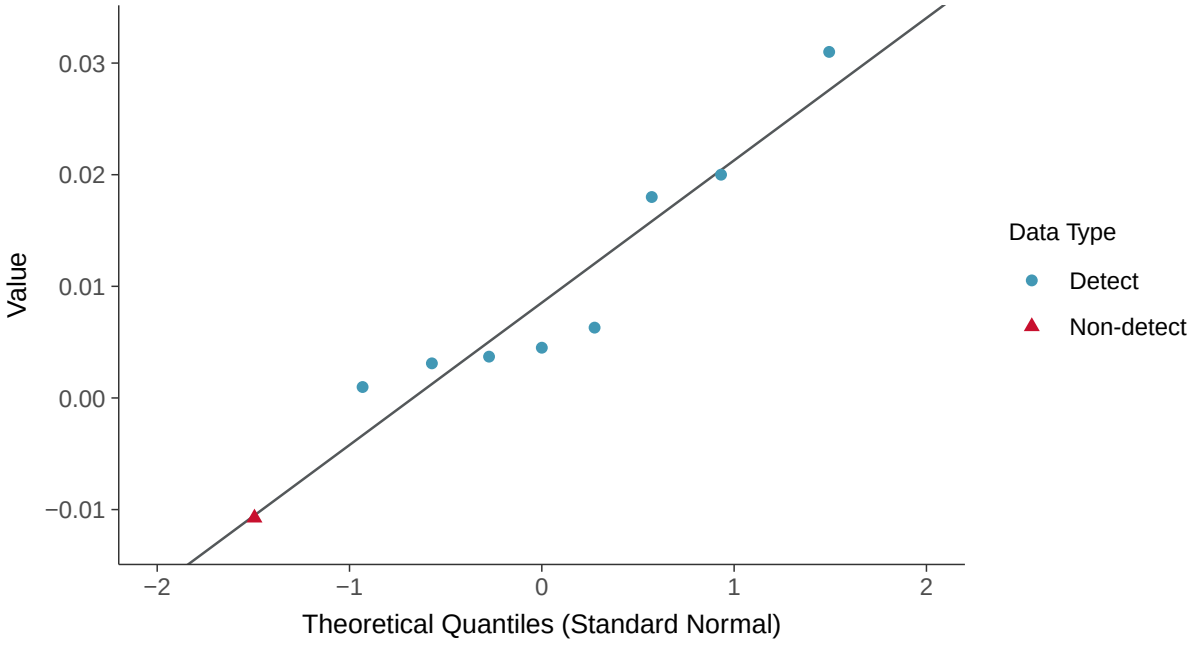
Boxplot by Season

Copper, MW-38 (mg/L)



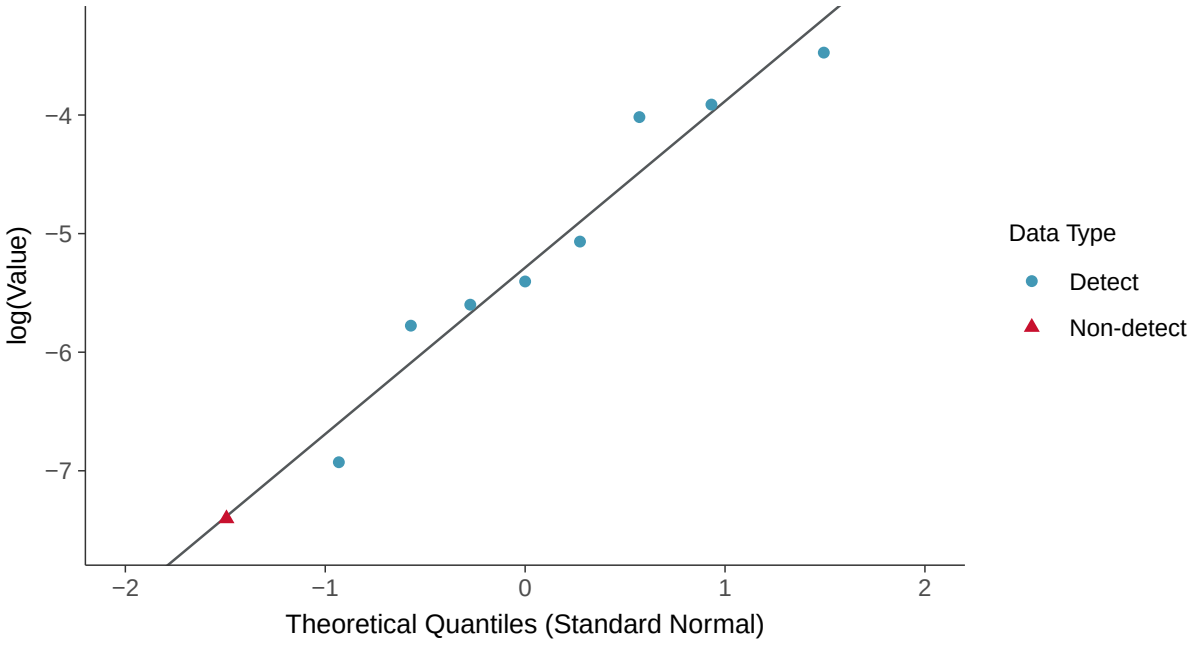
Normal Q-Q plot using ROS Imputed Estimates

Copper, MW-38 (mg/L)



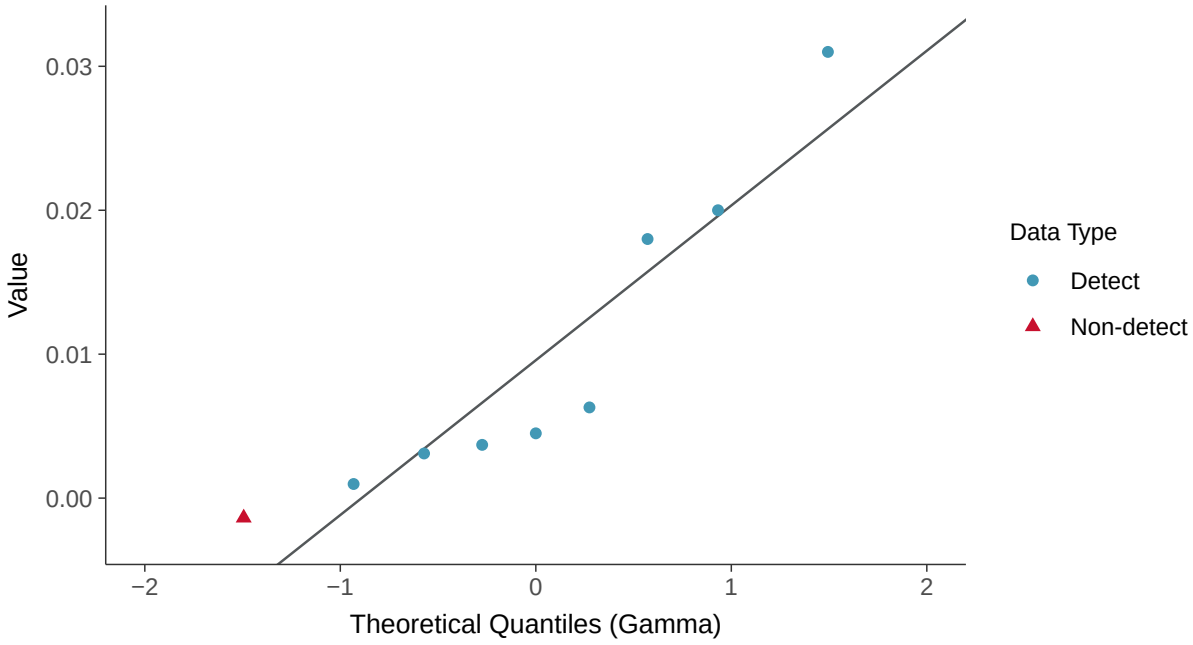
Lognormal Q-Q plot using ROS Imputed Estimates

Copper, MW-38 (mg/L)



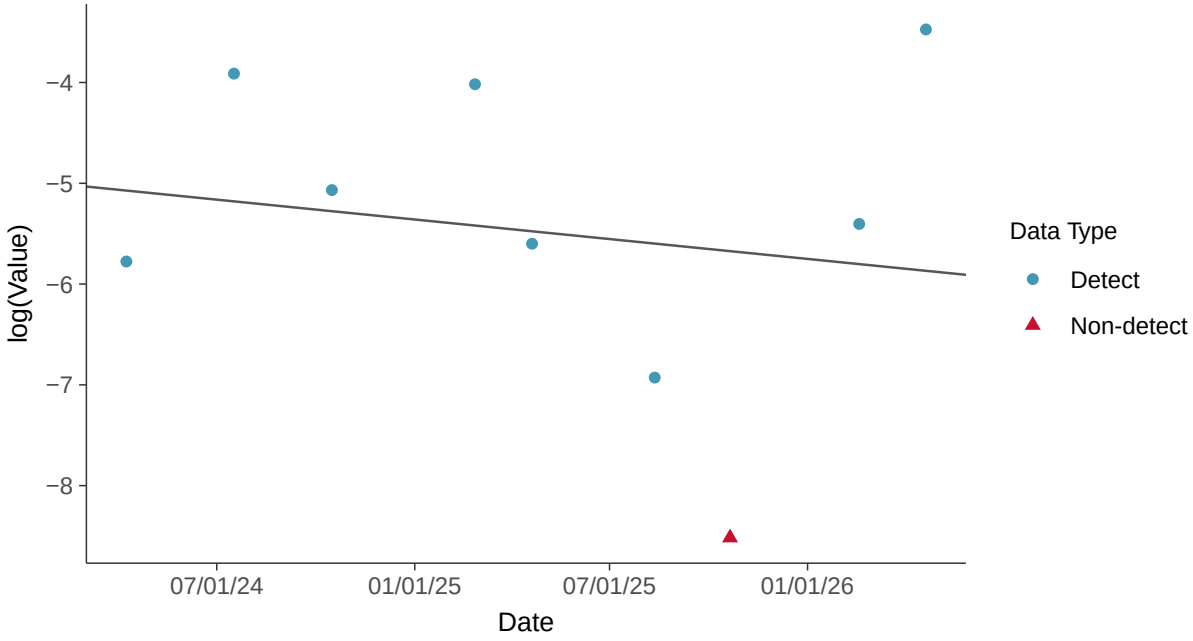
Gamma Q-Q plot using ROS Imputed Estimates

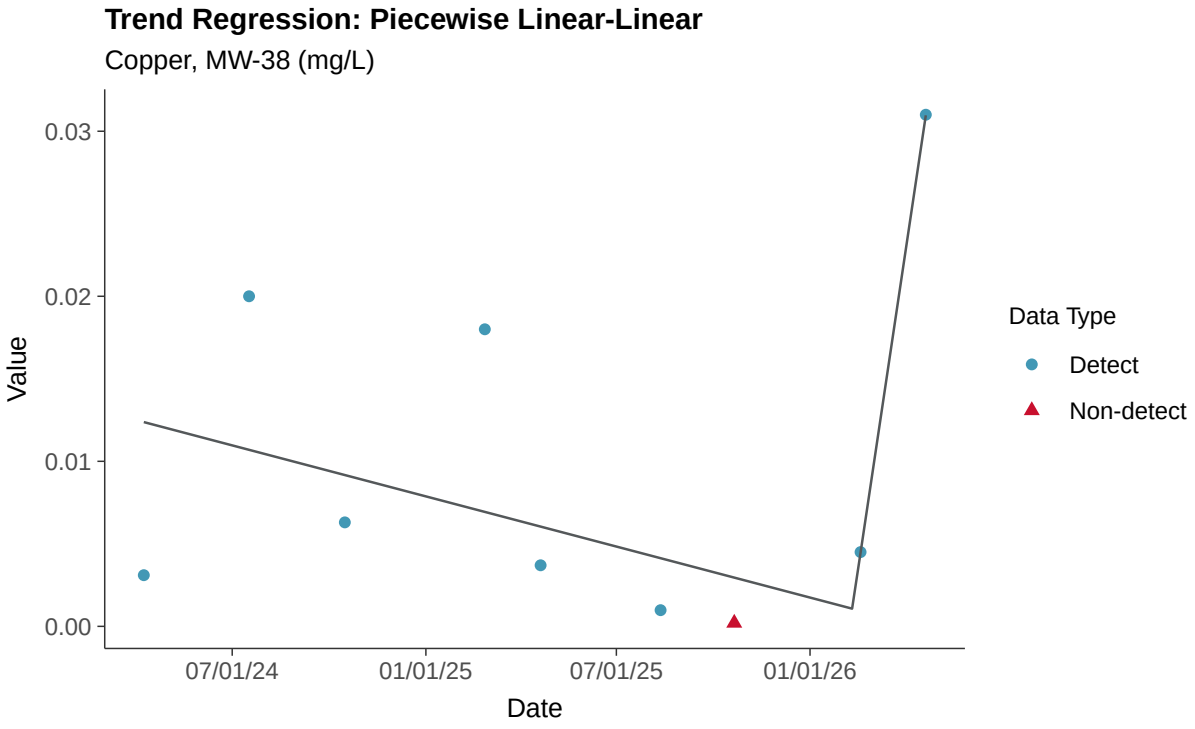
Copper, MW-38 (mg/L)



Trend Regression: Lognormal MLE

Copper, MW-38 (mg/L)



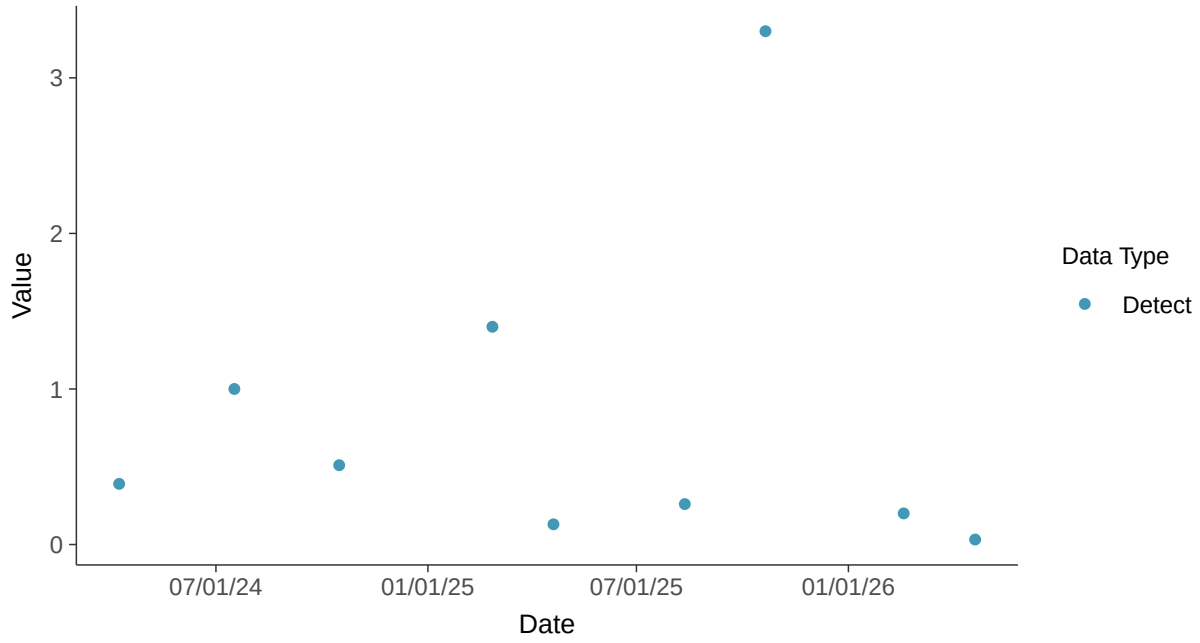

Trend Regression: Piecewise Linear-Linear
Copper, MW-38 (mg/L)
Value
0.03
0.02
0.01
0.00
07/01/24
01/01/25
07/01/25
01/01/26
Date
Data Type
Detect
Non-detect

Part 115: Iron, MW-38

ID: 48_2_5_114

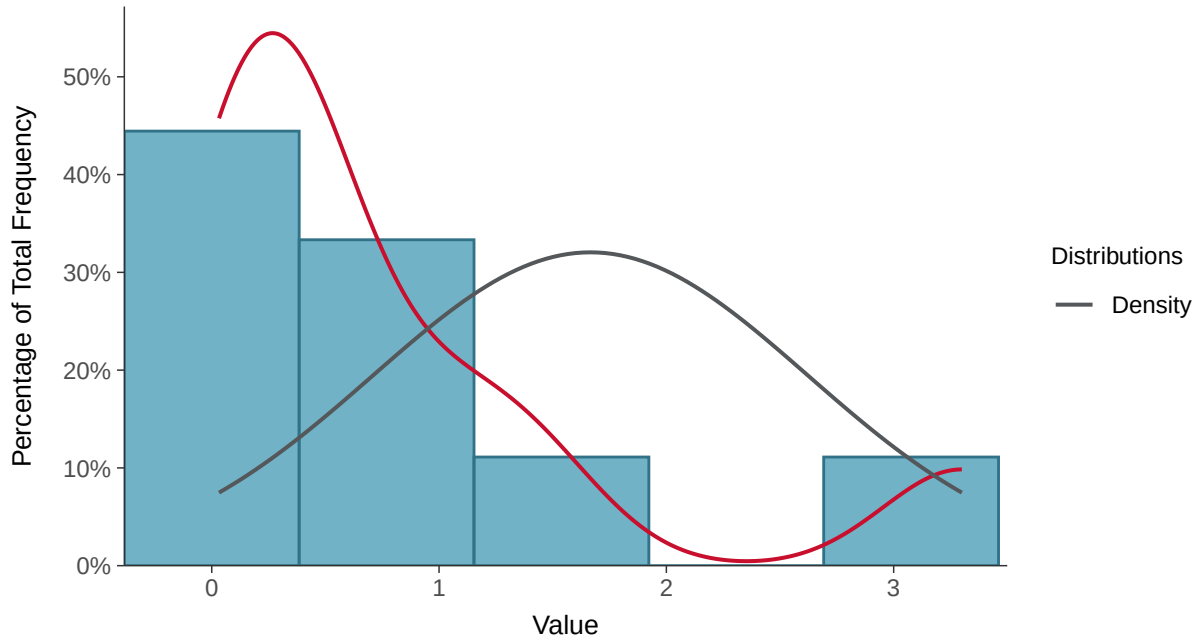
Scatter Plot

Iron, MW-38 (mg/L)



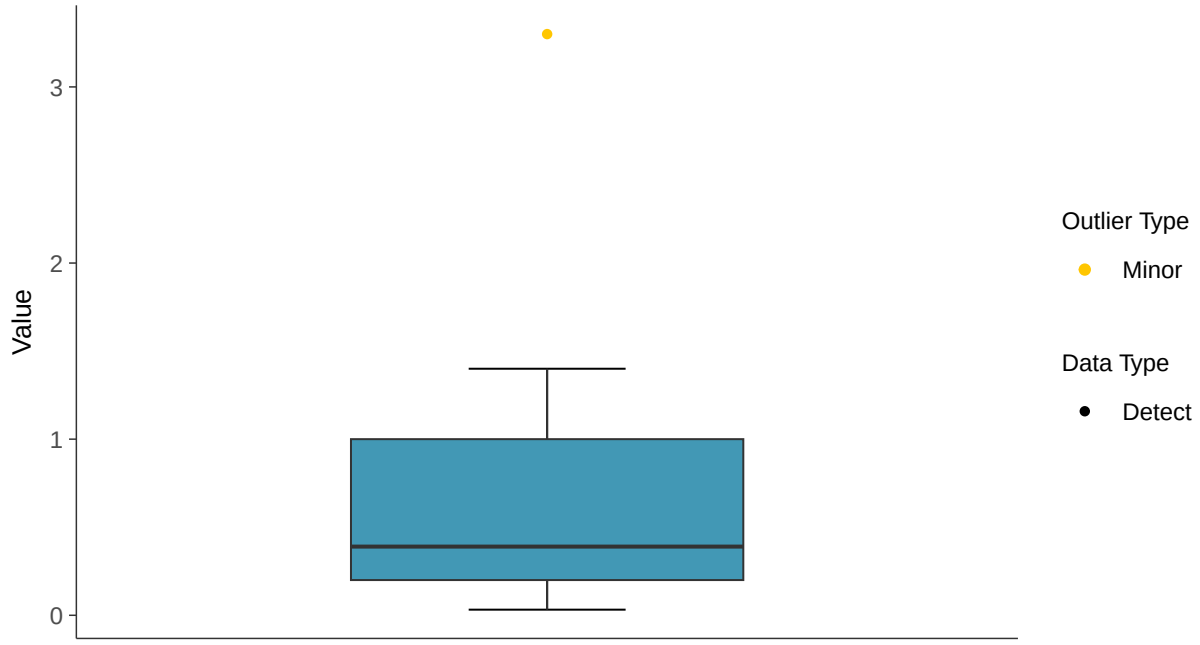
Histogram

Iron, MW-38 (mg/L)



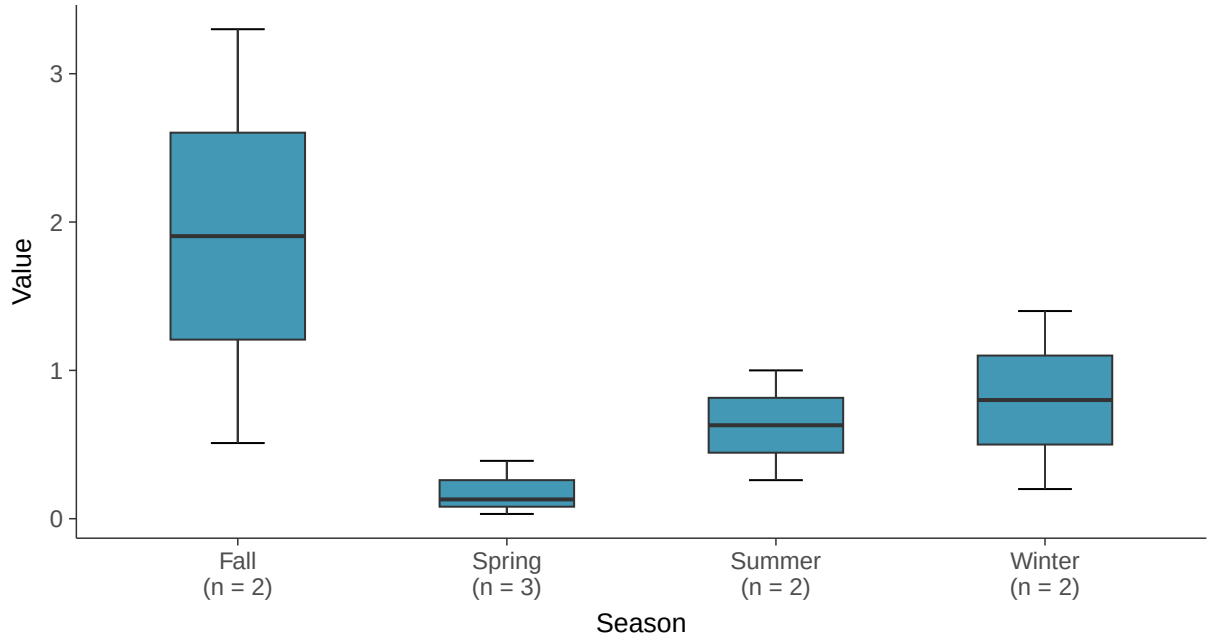
Boxplot

Iron, MW-38 (mg/L)



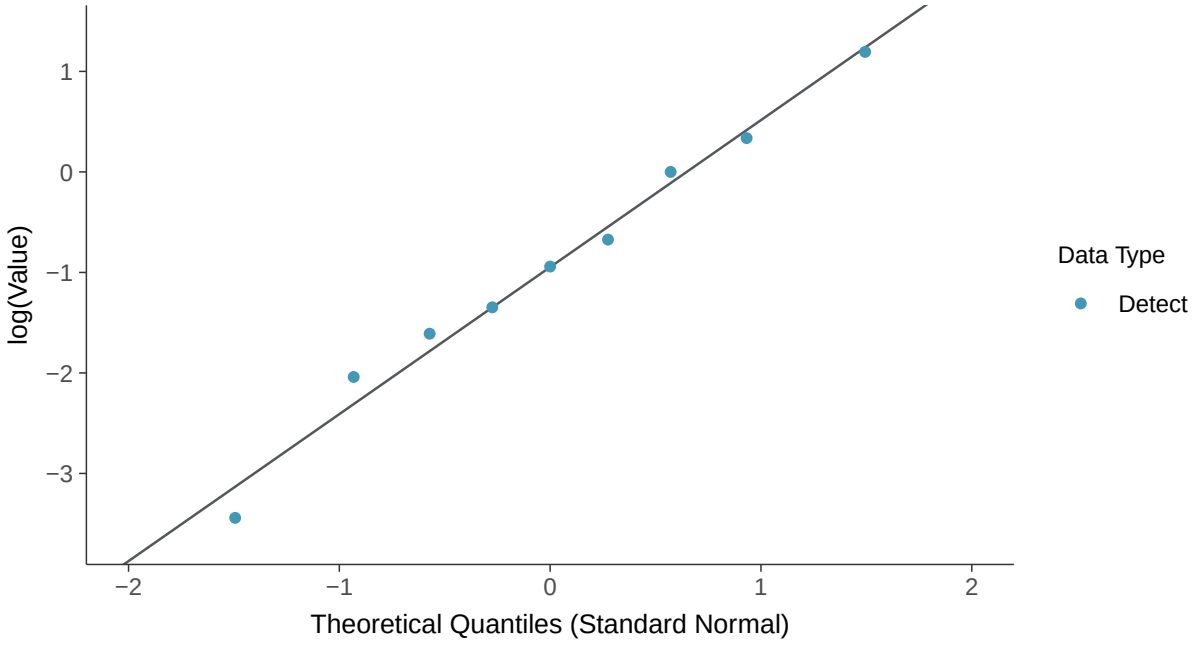
Boxplot by Season

Iron, MW-38 (mg/L)



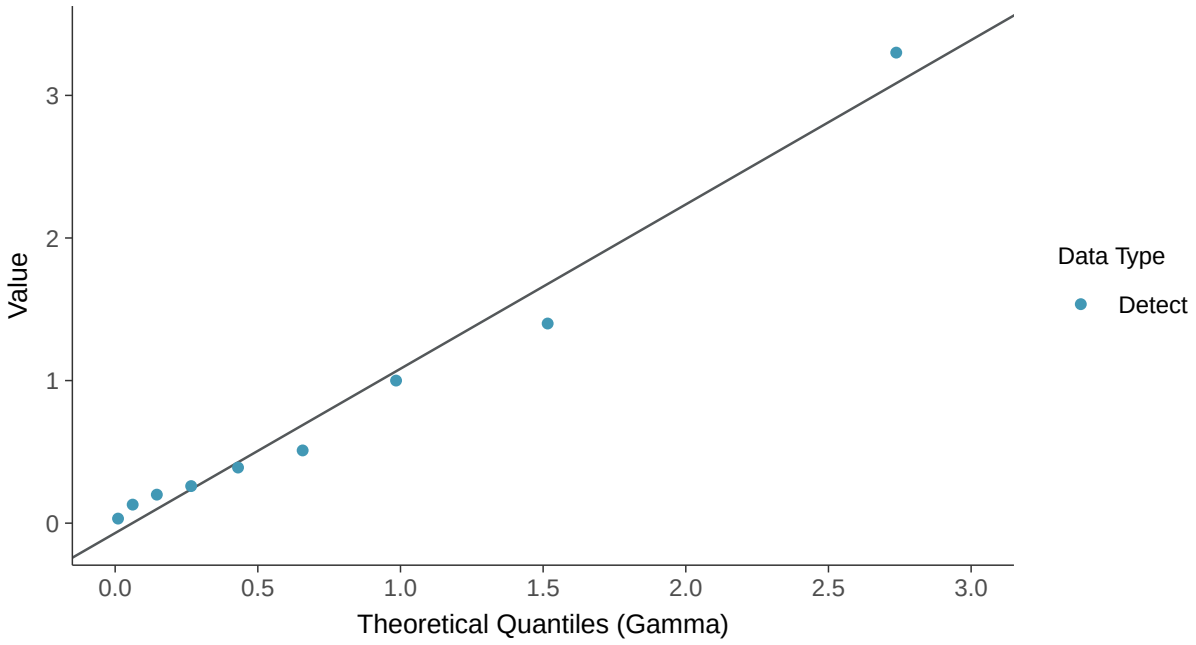
Lognormal Q-Q plot

Iron, MW-38 (mg/L)



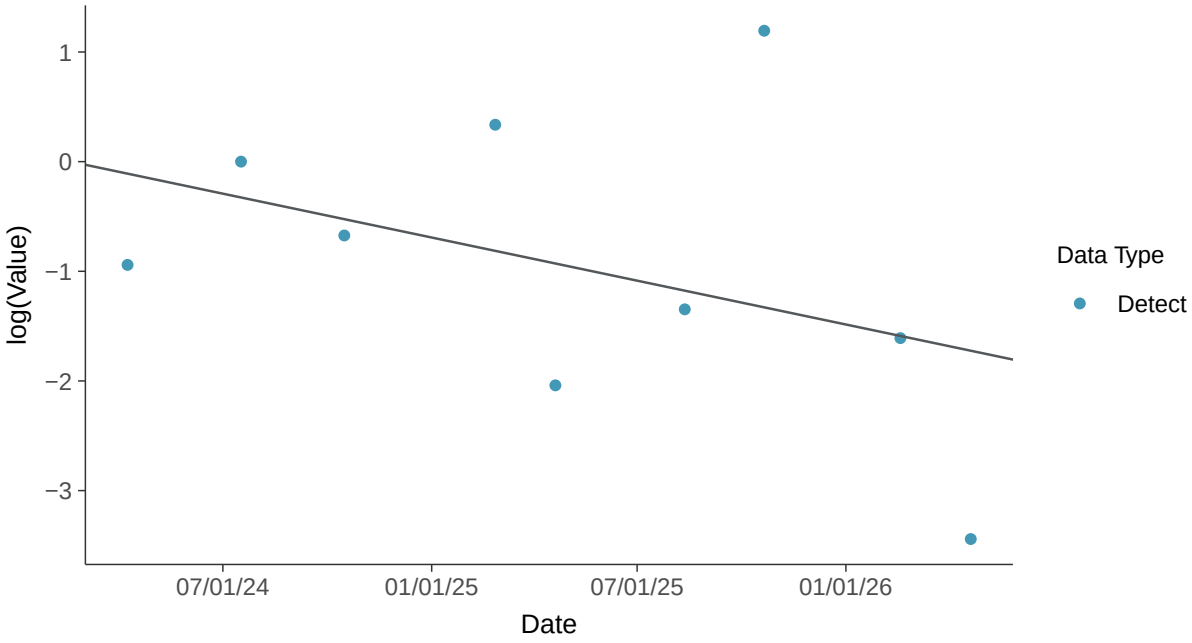
Gamma Q-Q plot

Iron, MW-38 (mg/L)



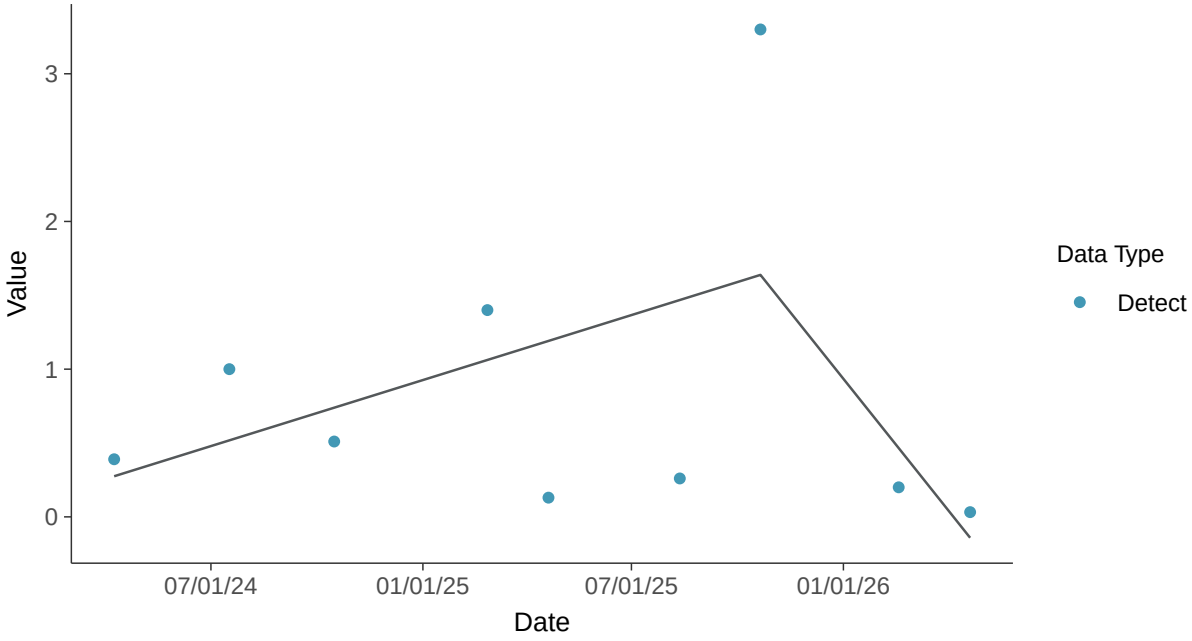
Trend Regression: Lognormal MLE

Iron, MW-38 (mg/L)



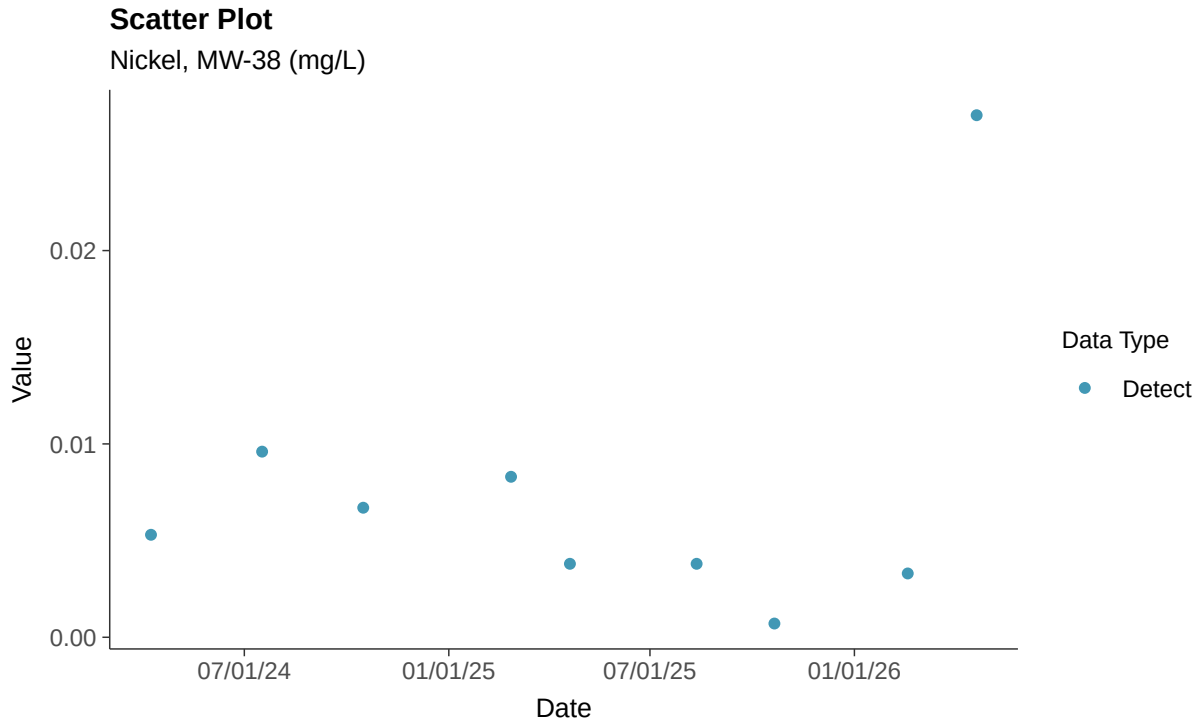
Trend Regression: Piecewise Linear-Linear

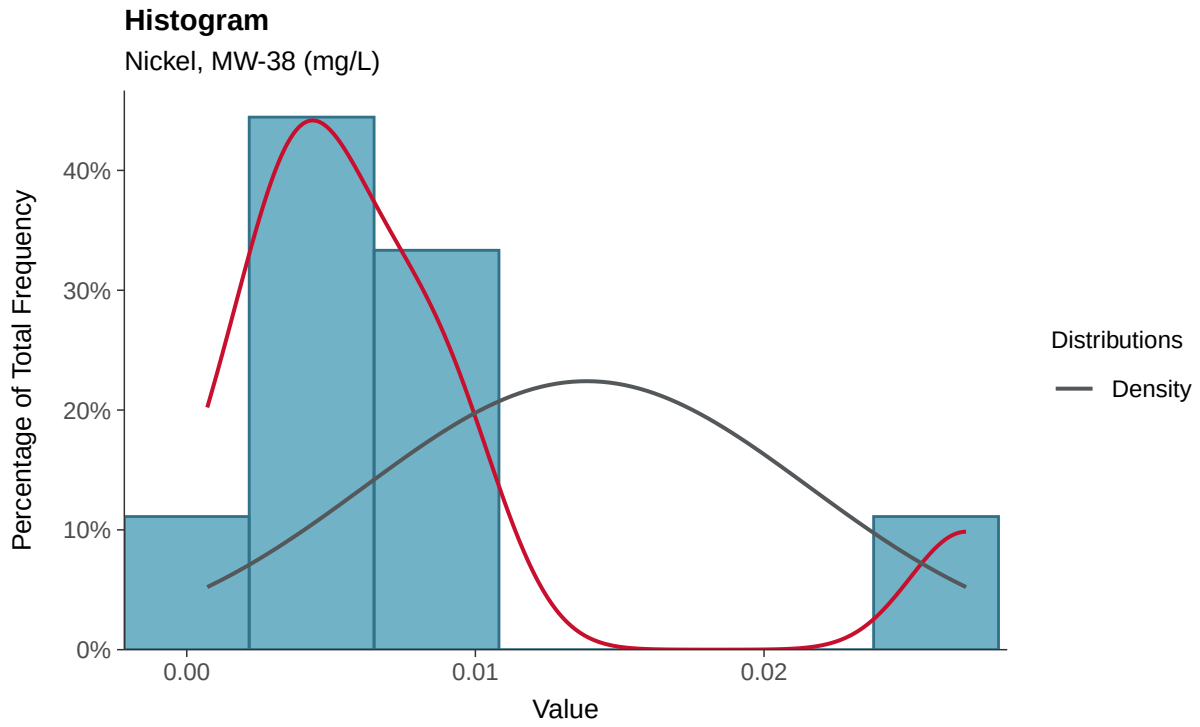
Iron, MW-38 (mg/L)



Part 115: Nickel, MW-38

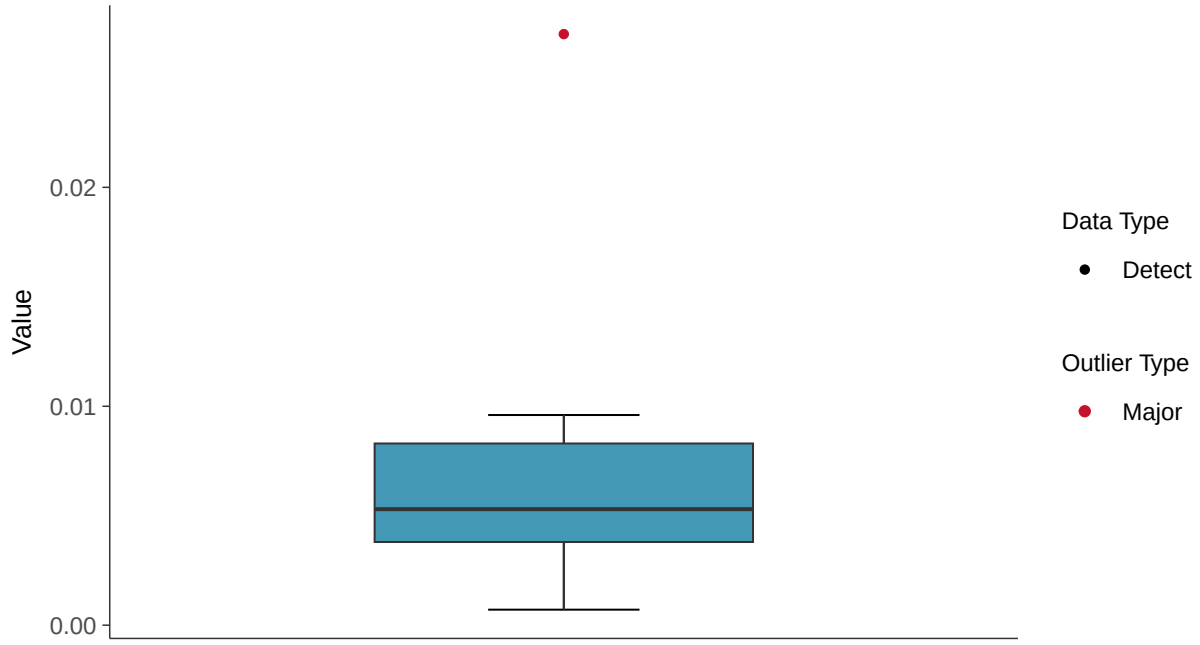
ID: 48_2_5_119





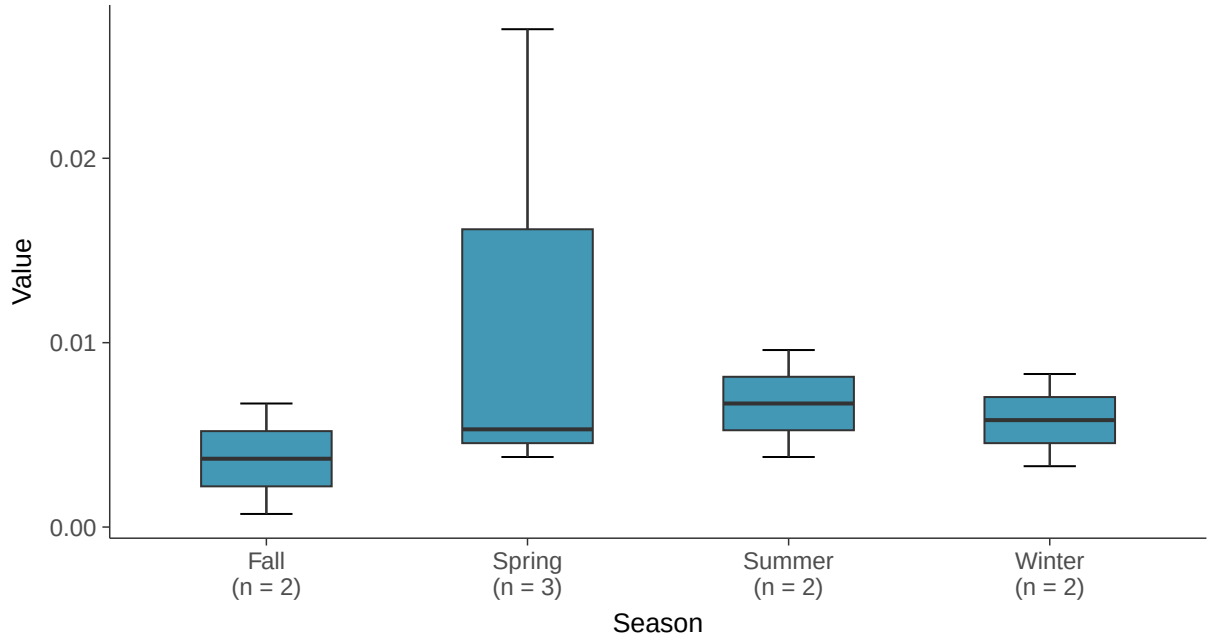
Boxplot

Nickel, MW-38 (mg/L)



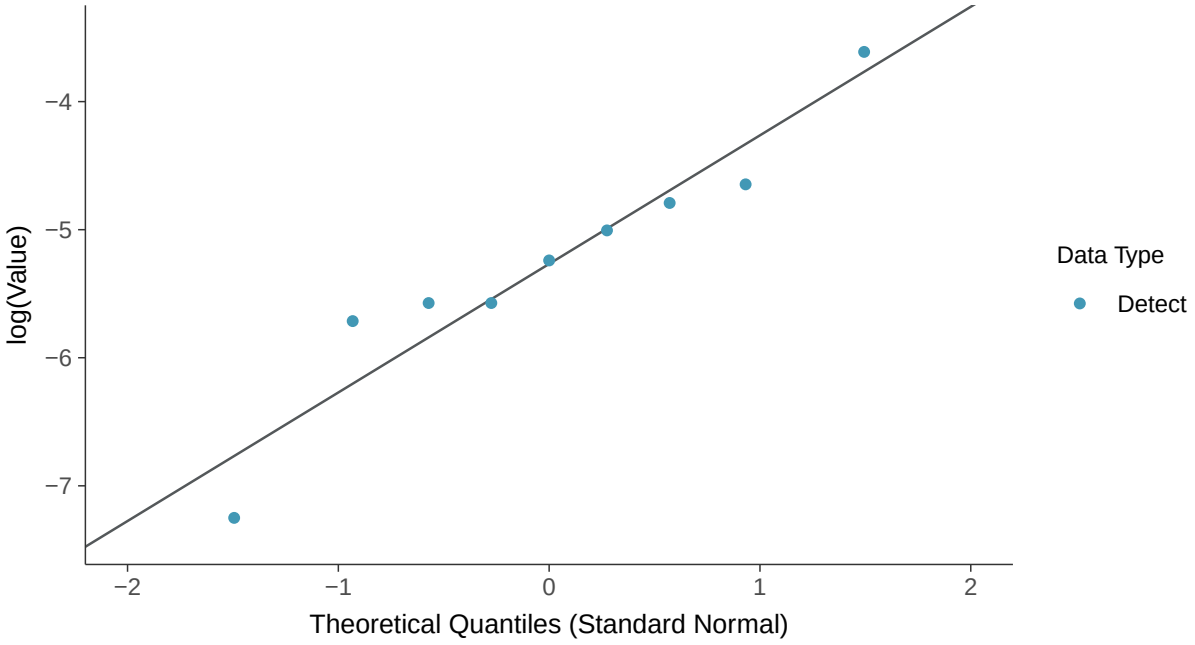
Boxplot by Season

Nickel, MW-38 (mg/L)



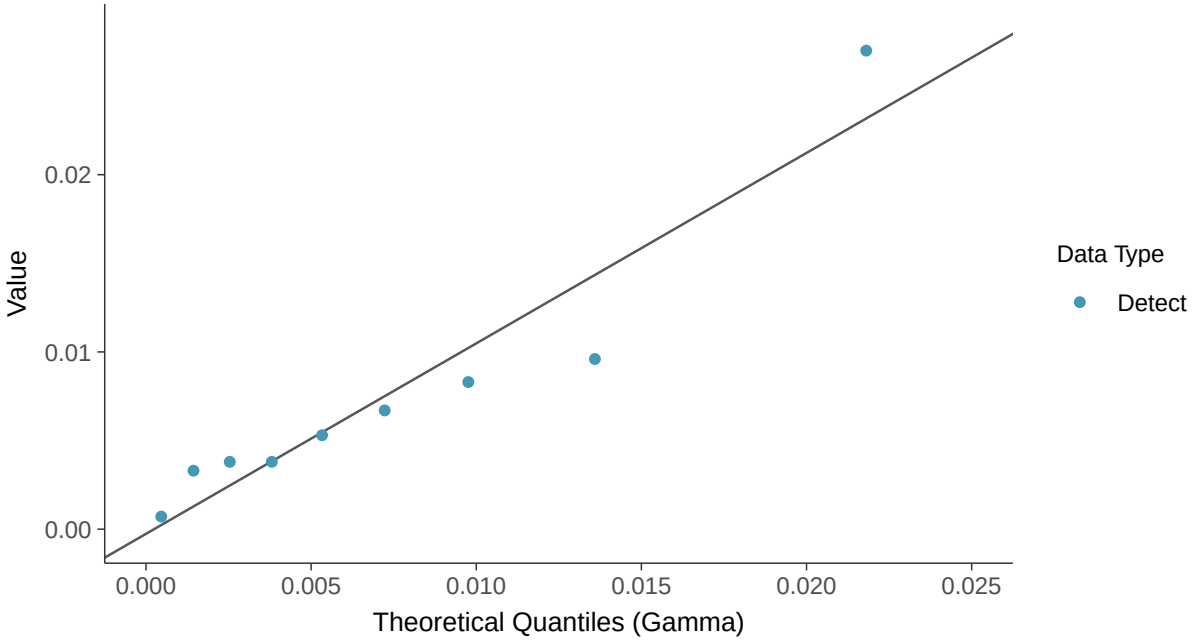
Lognormal Q-Q plot

Nickel, MW-38 (mg/L)



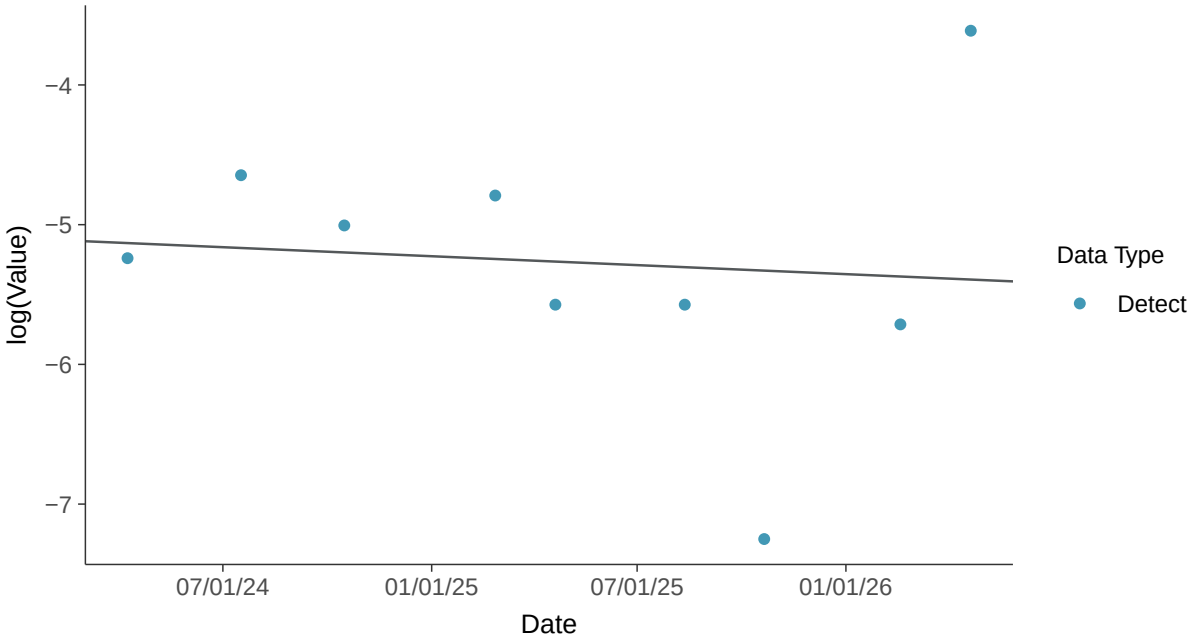
Gamma Q-Q plot

Nickel, MW-38 (mg/L)



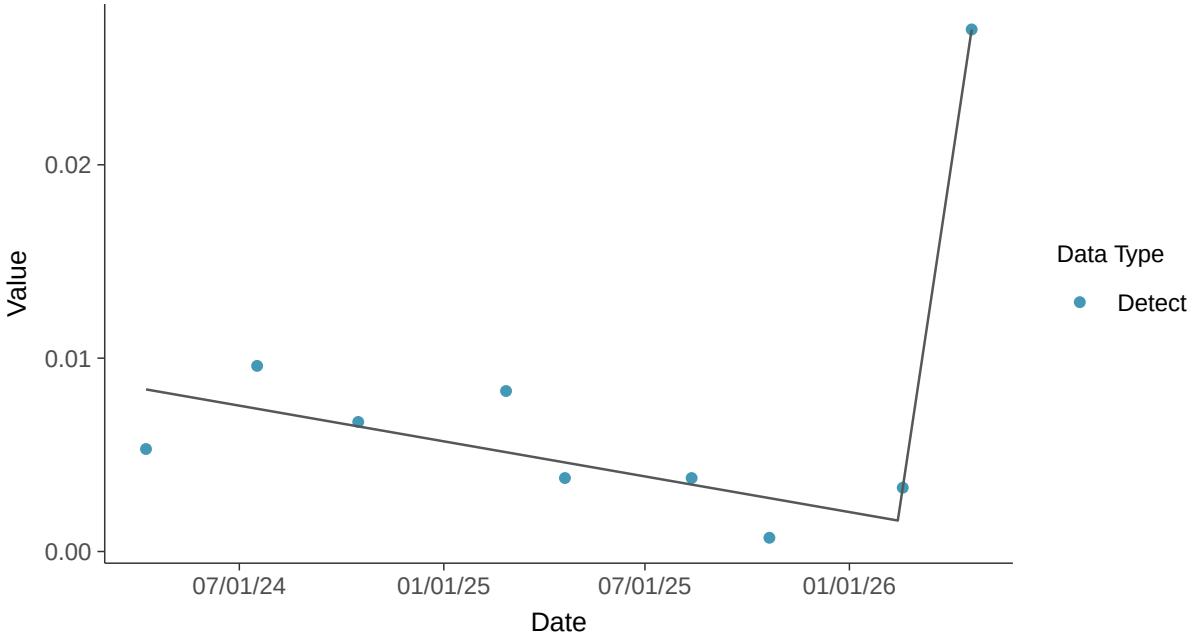
Trend Regression: Lognormal MLE

Nickel, MW-38 (mg/L)



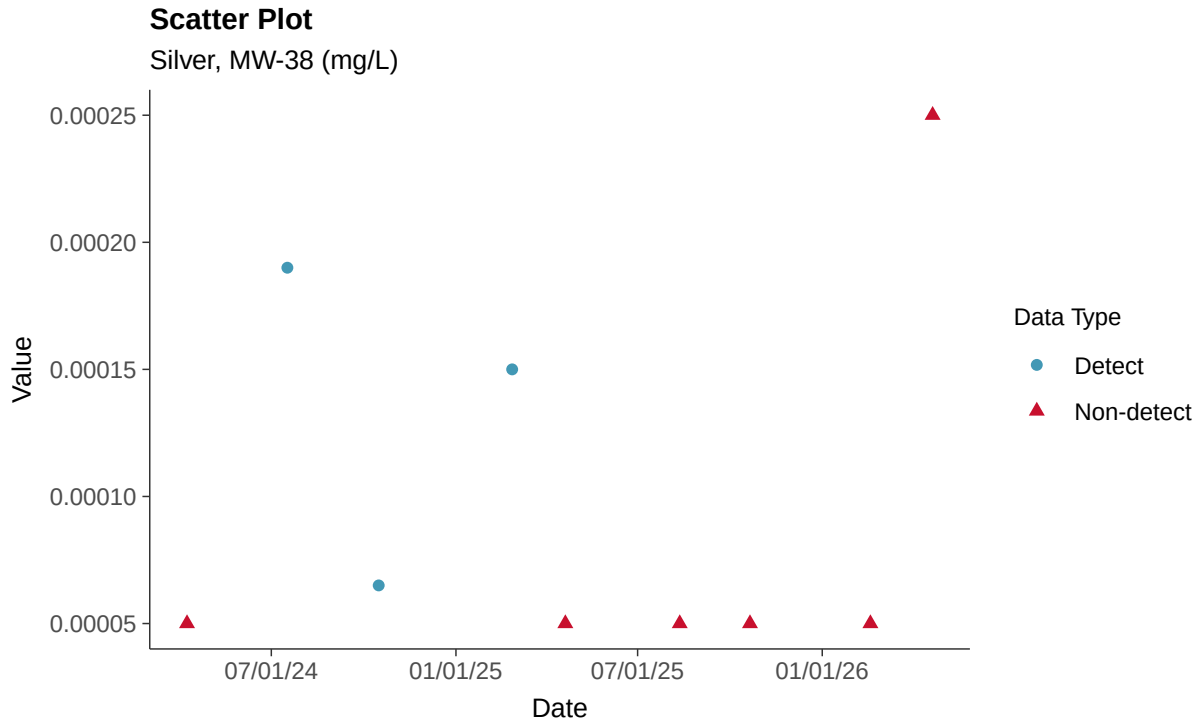
Trend Regression: Piecewise Linear-Linear

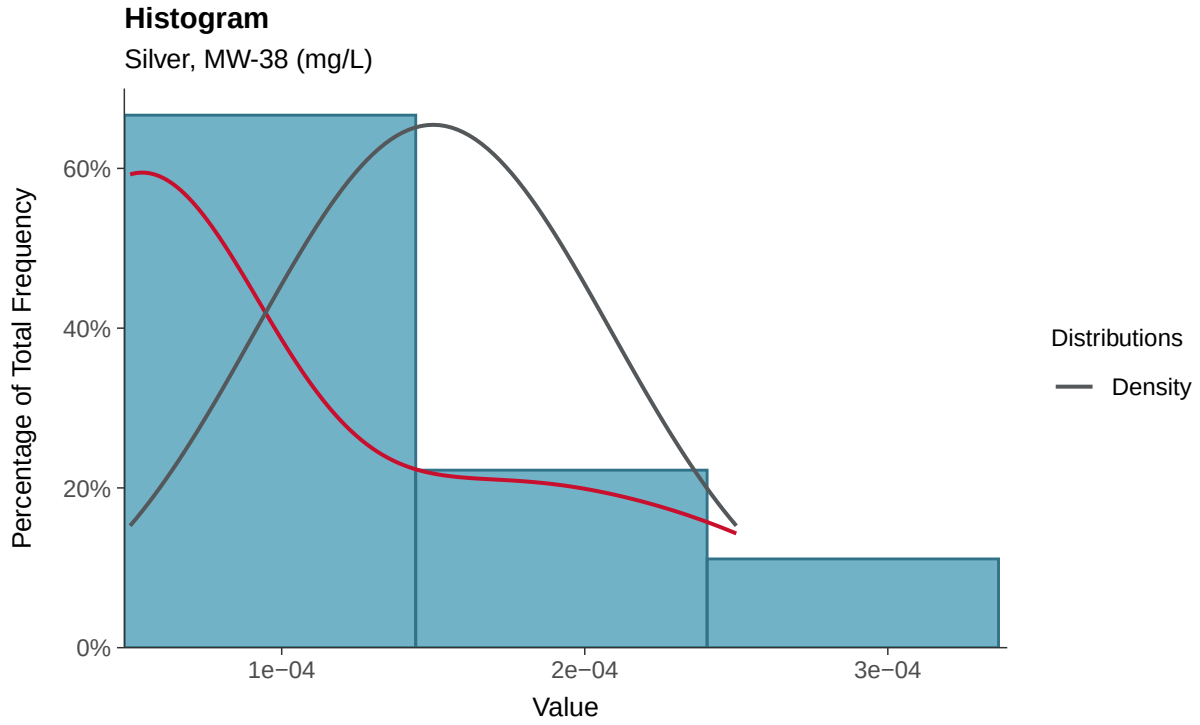
Nickel, MW-38 (mg/L)



Part 115: Silver, MW-38

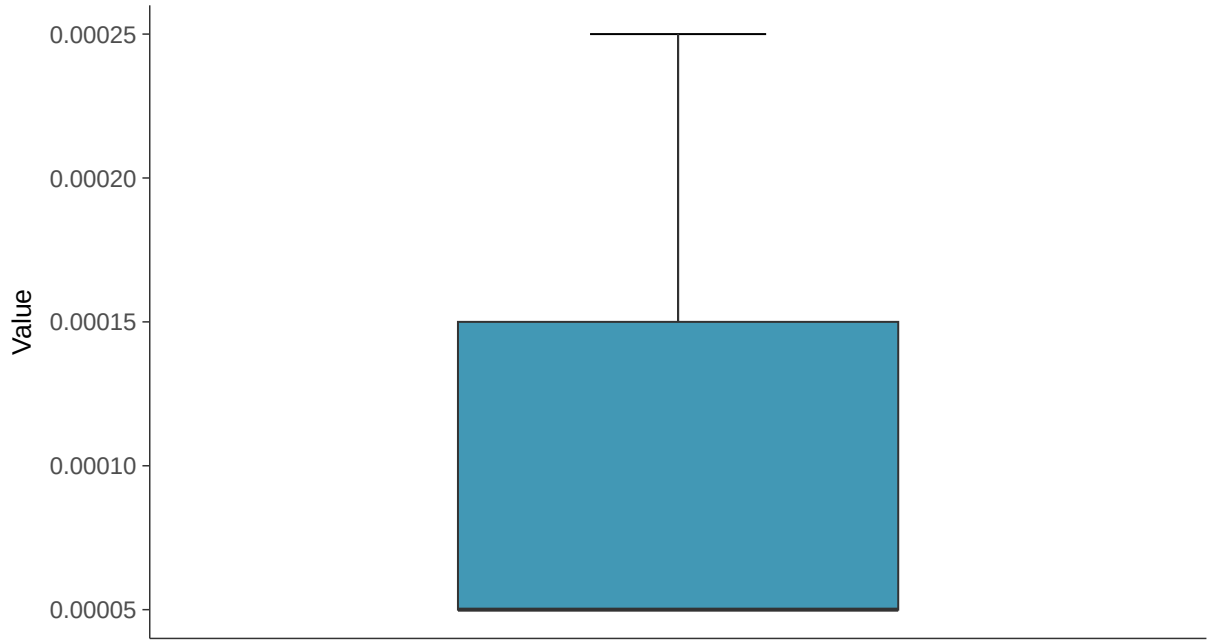
ID: 48_2_5_123





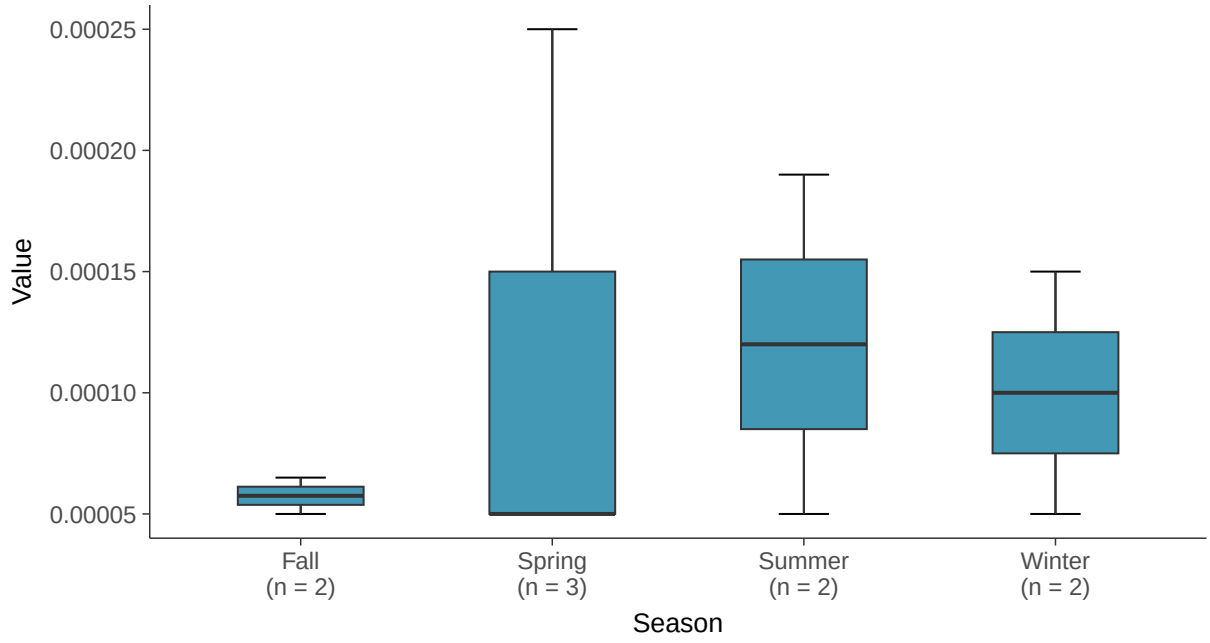
Boxplot

Silver, MW-38 (mg/L)



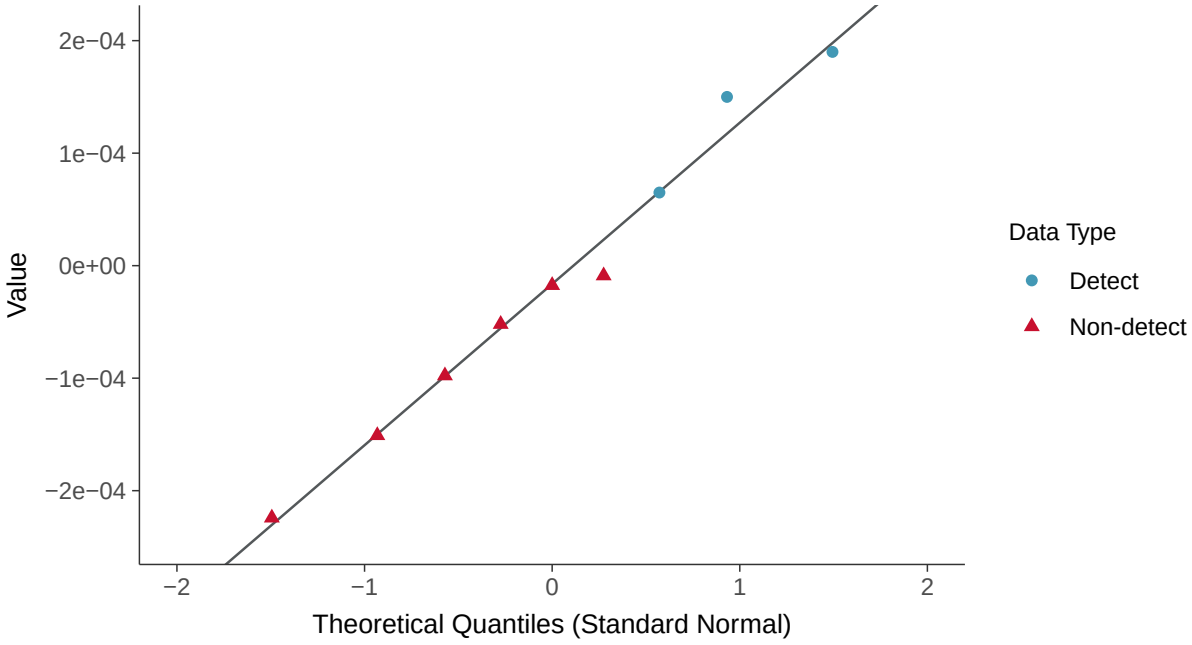
Boxplot by Season

Silver, MW-38 (mg/L)



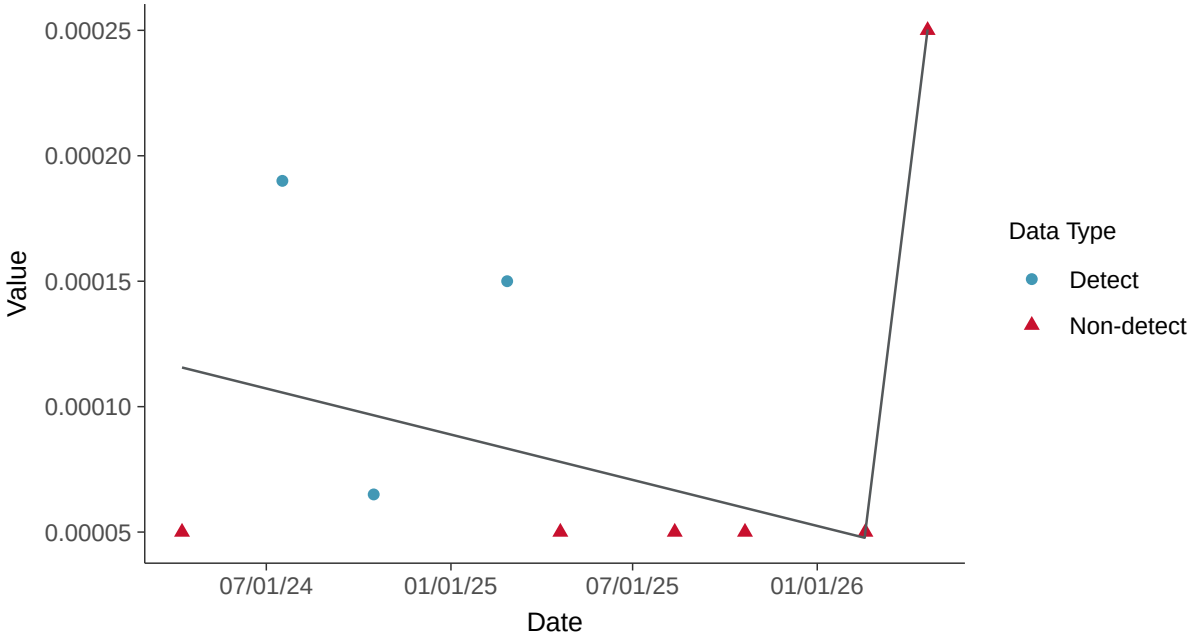
Normal Q-Q plot using ROS Imputed Estimates

Silver, MW-38 (mg/L)



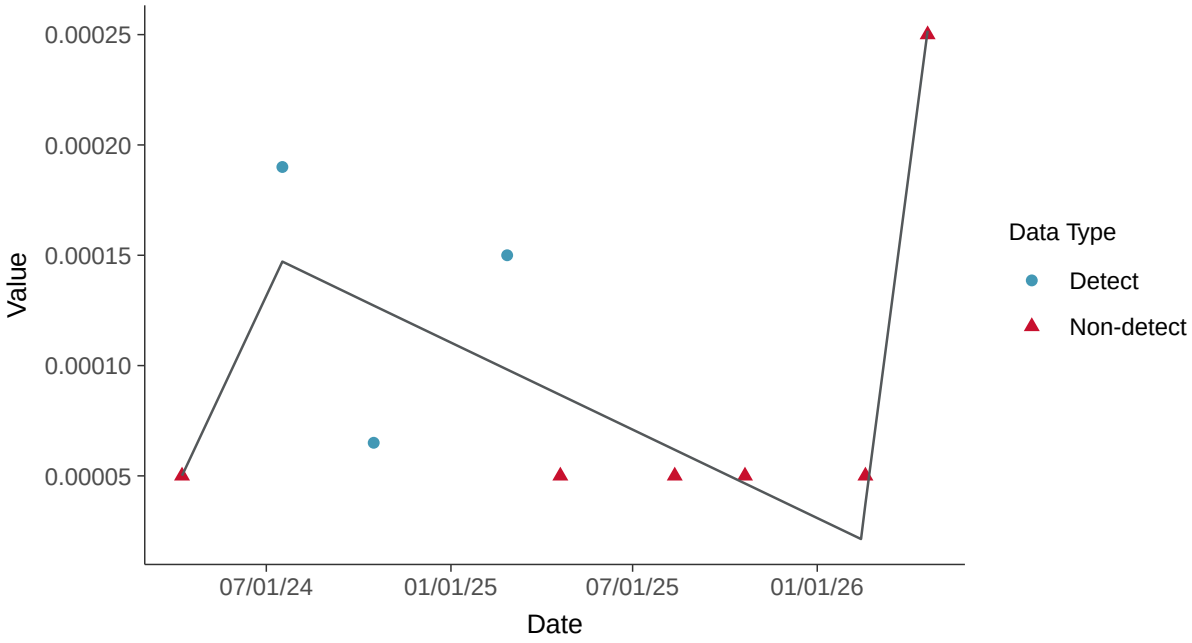
Trend Regression: Piecewise Linear-Linear

Silver, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Silver, MW-38 (mg/L)

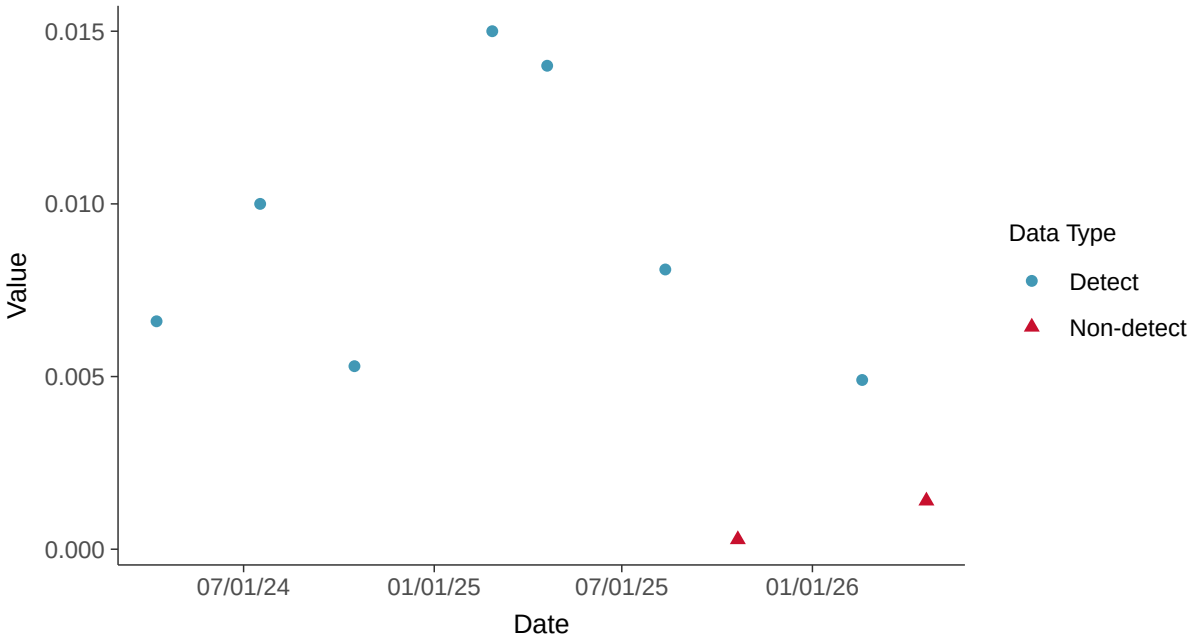


Part 115: Vanadium, MW-38

ID: 48_2_5_128

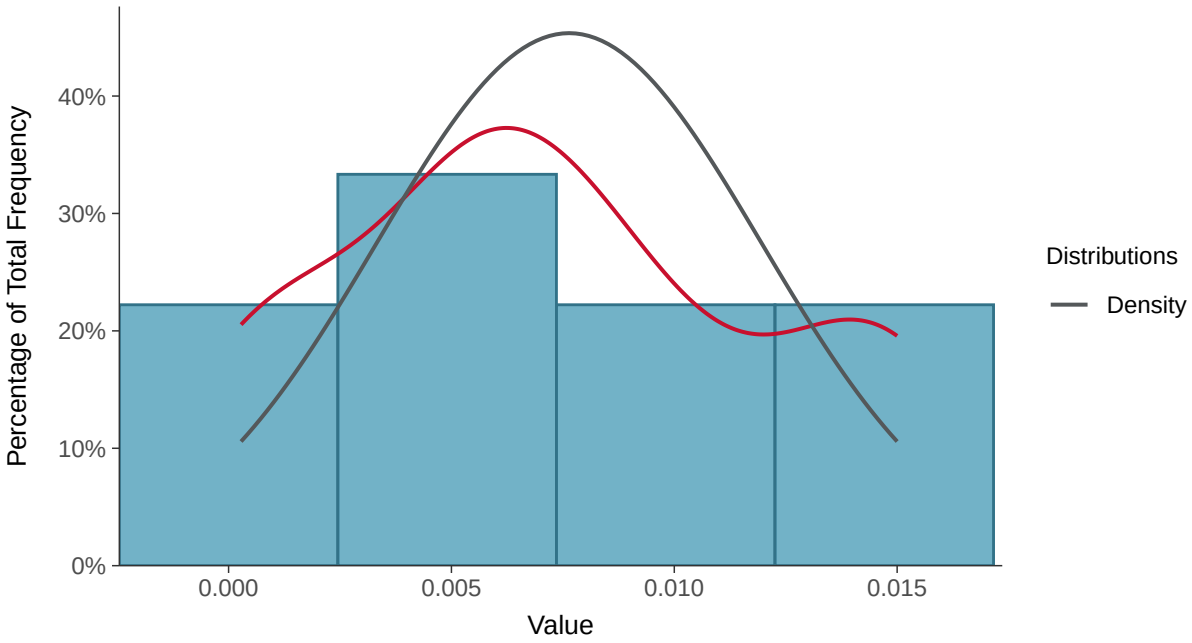
Scatter Plot

Vanadium, MW-38 (mg/L)



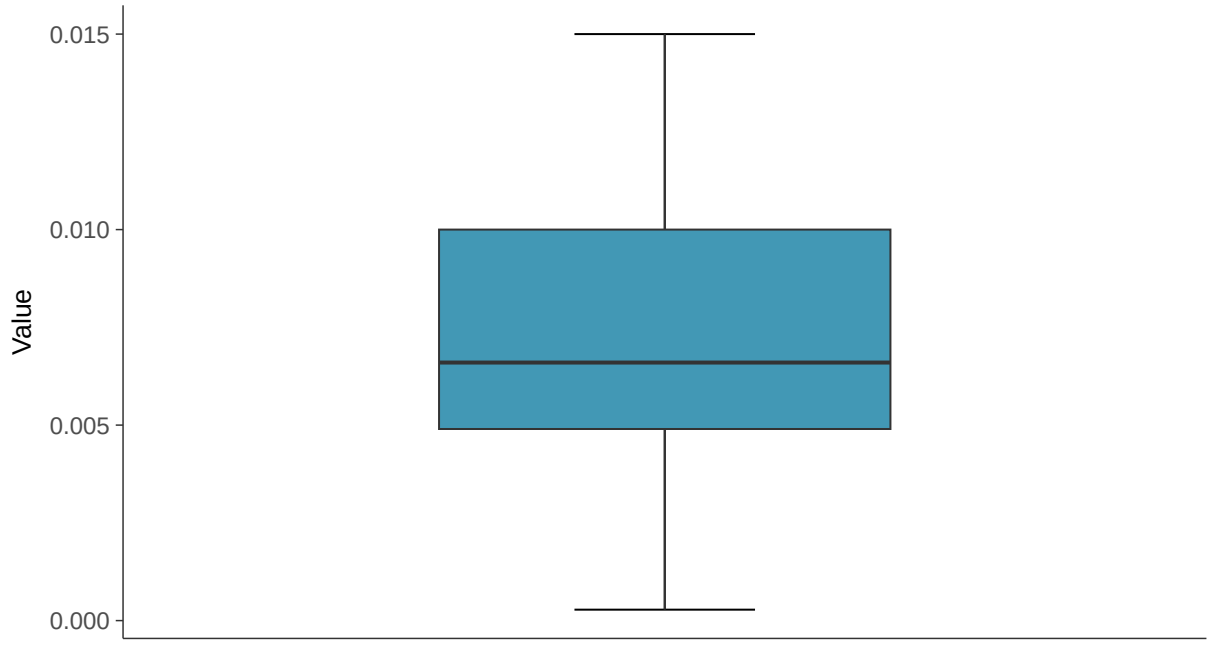
Histogram

Vanadium, MW-38 (mg/L)



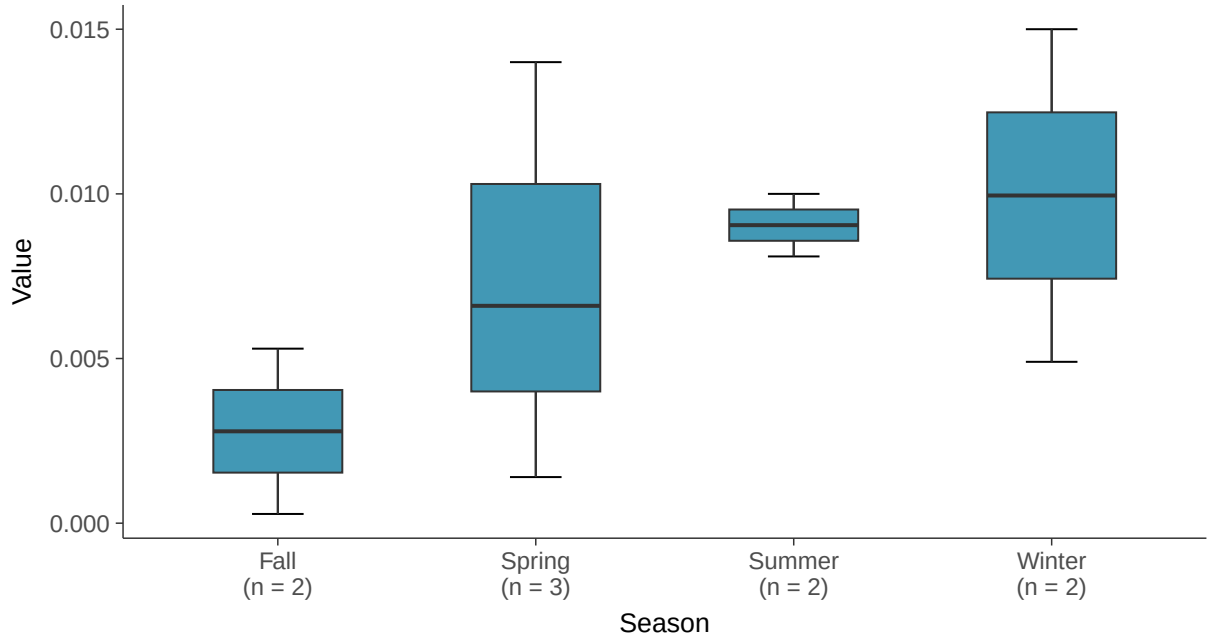
Boxplot

Vanadium, MW-38 (mg/L)



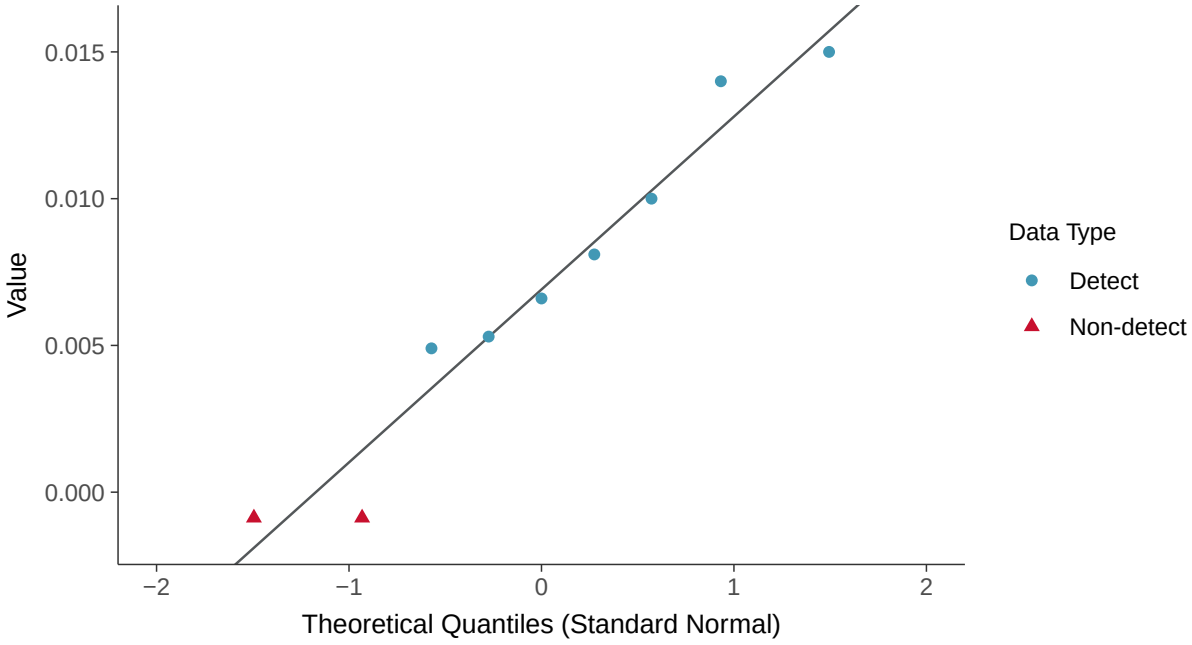
Boxplot by Season

Vanadium, MW-38 (mg/L)



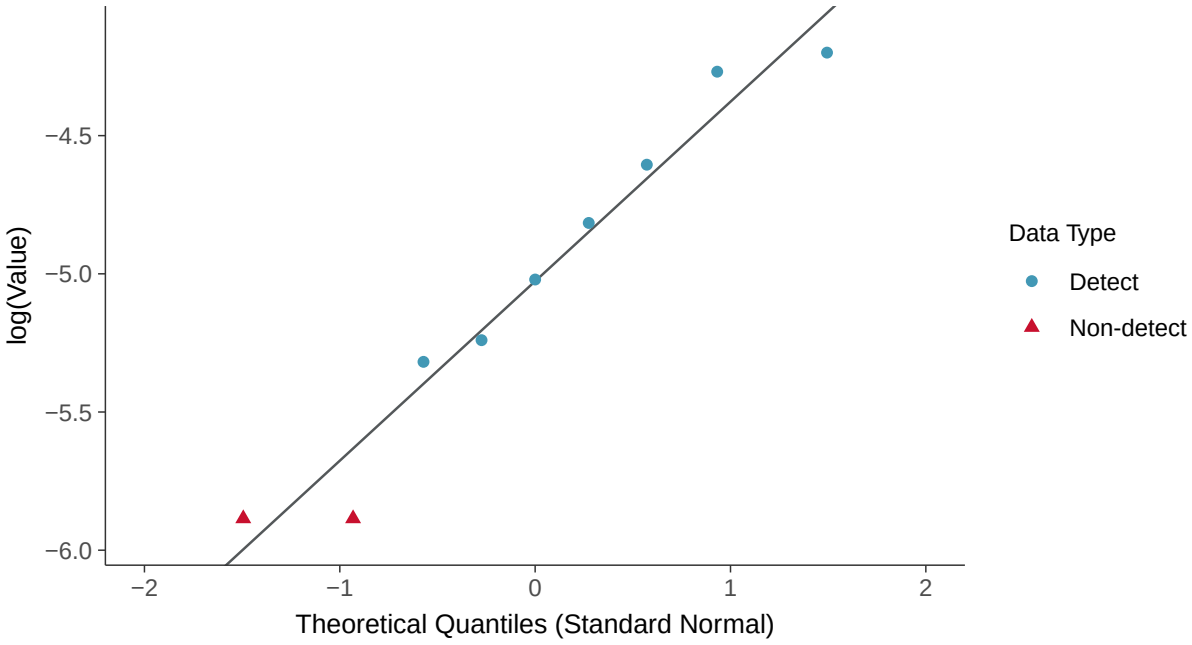
Normal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-38 (mg/L)



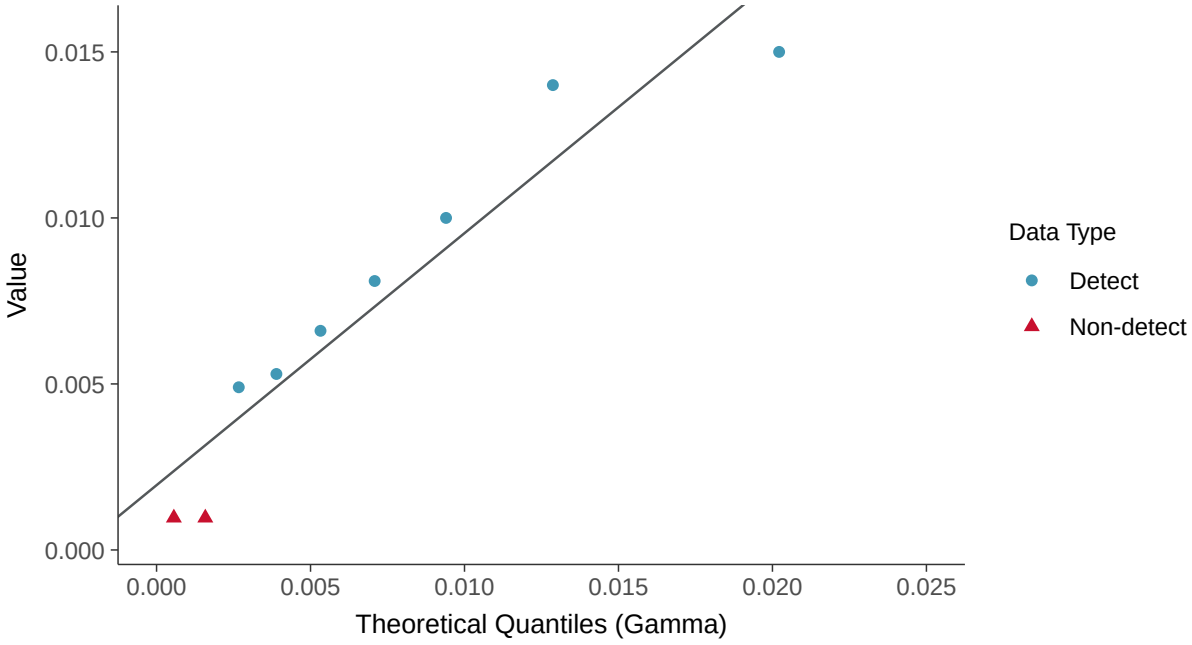
Lognormal Q-Q plot using ROS Imputed Estimates

Vanadium, MW-38 (mg/L)



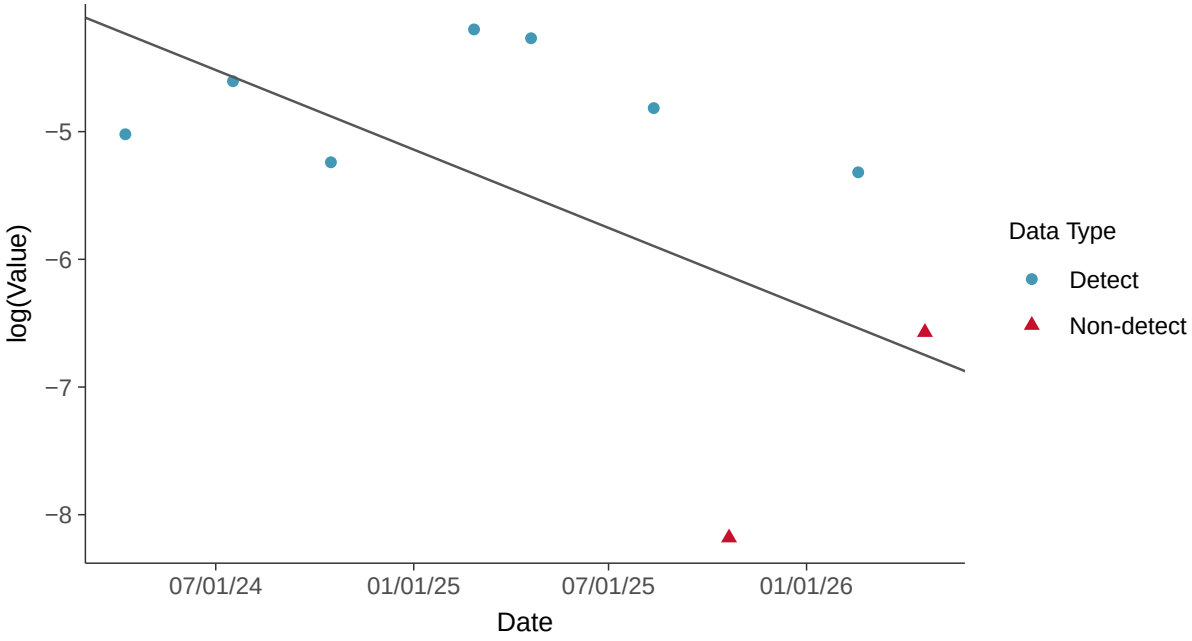
Gamma Q-Q plot using ROS Imputed Estimates

Vanadium, MW-38 (mg/L)



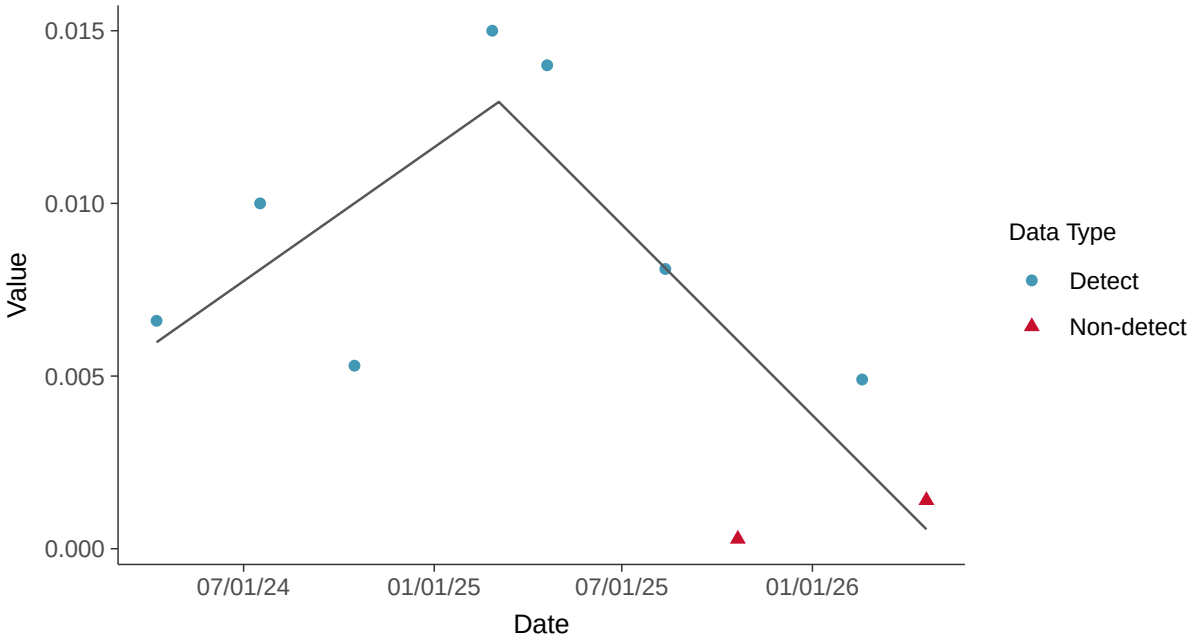
Trend Regression: Lognormal MLE

Vanadium, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear

Vanadium, MW-38 (mg/L)

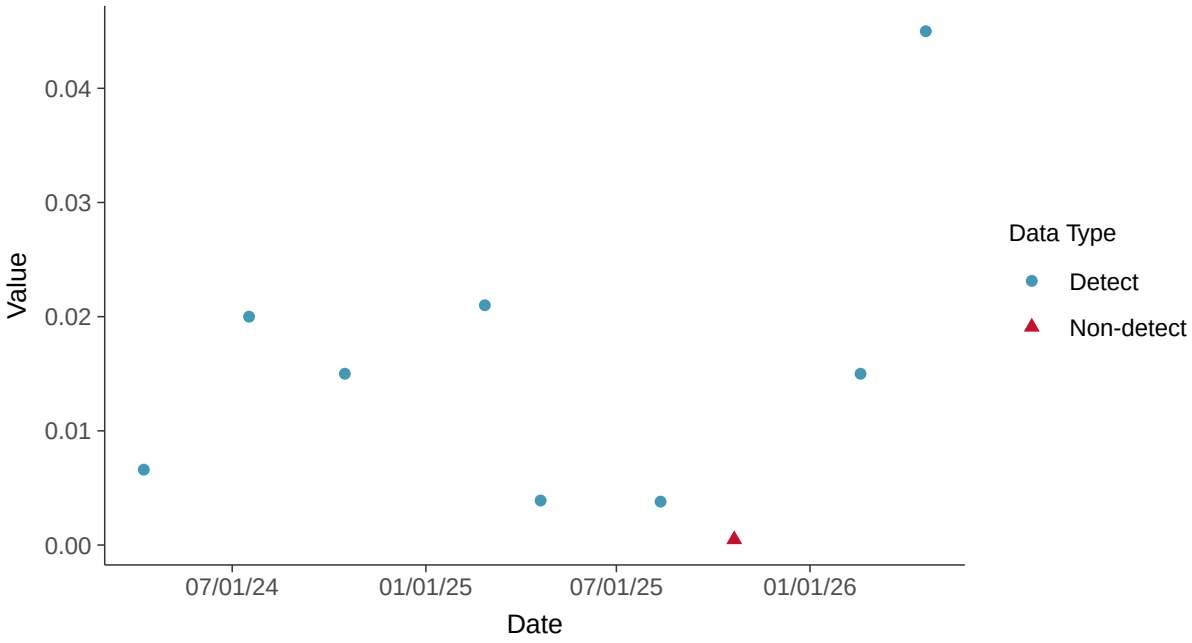


Part 115: Zinc, MW-38

ID: 48_2_5_129

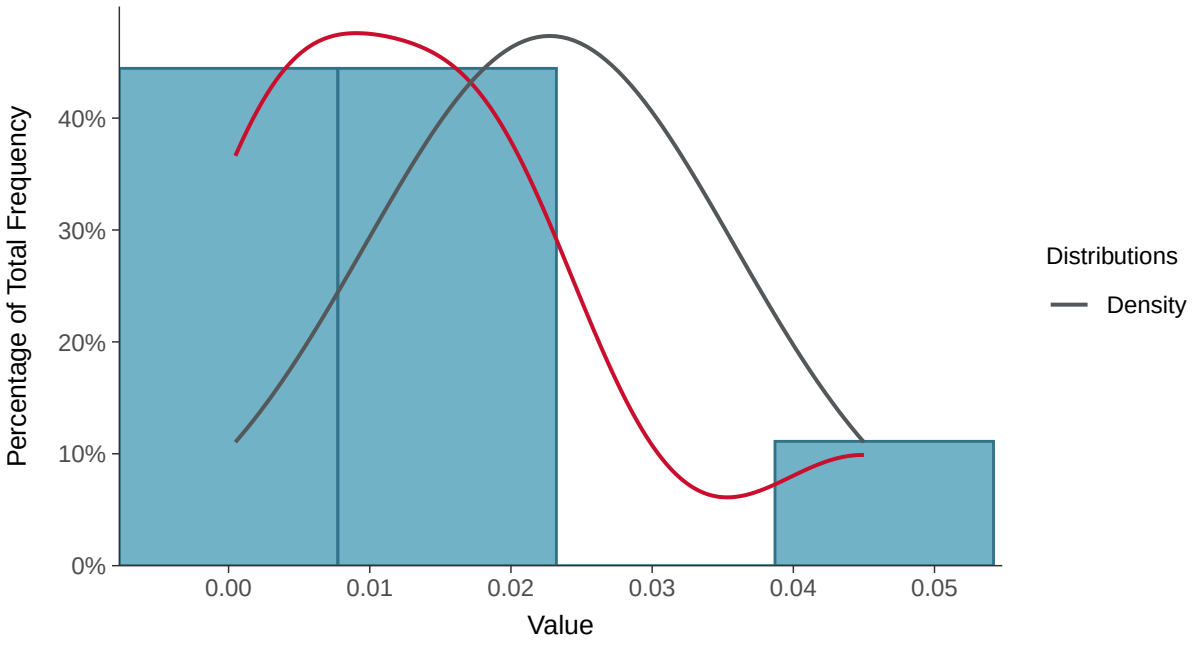
Scatter Plot

Zinc, MW-38 (mg/L)



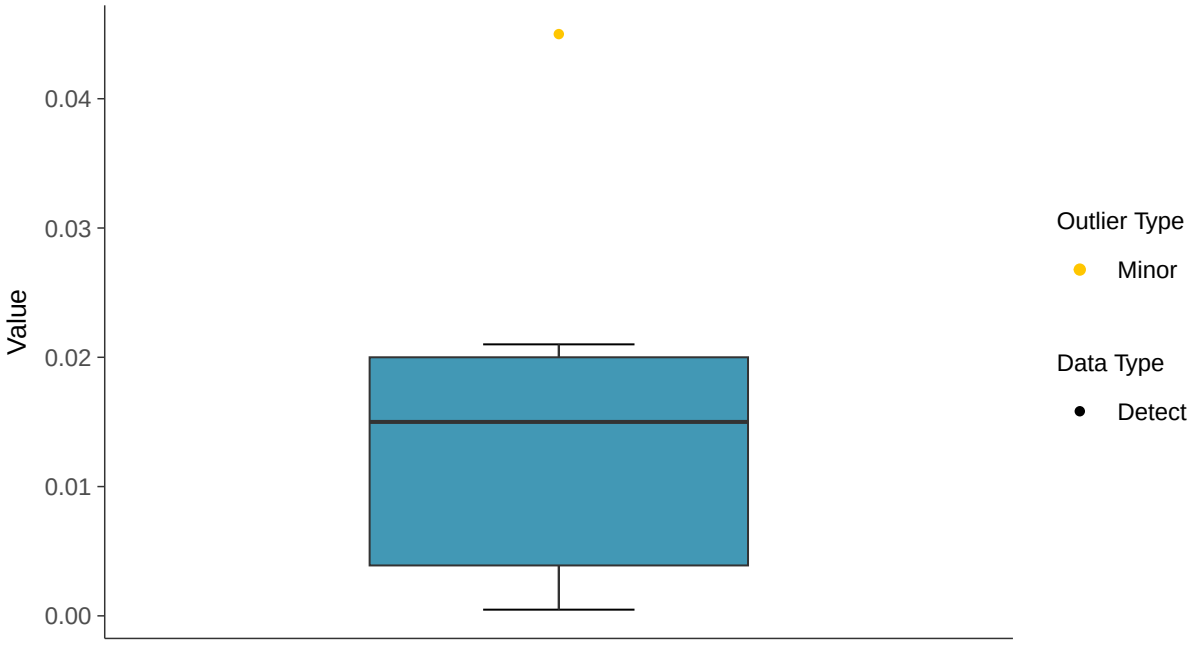
Histogram

Zinc, MW-38 (mg/L)



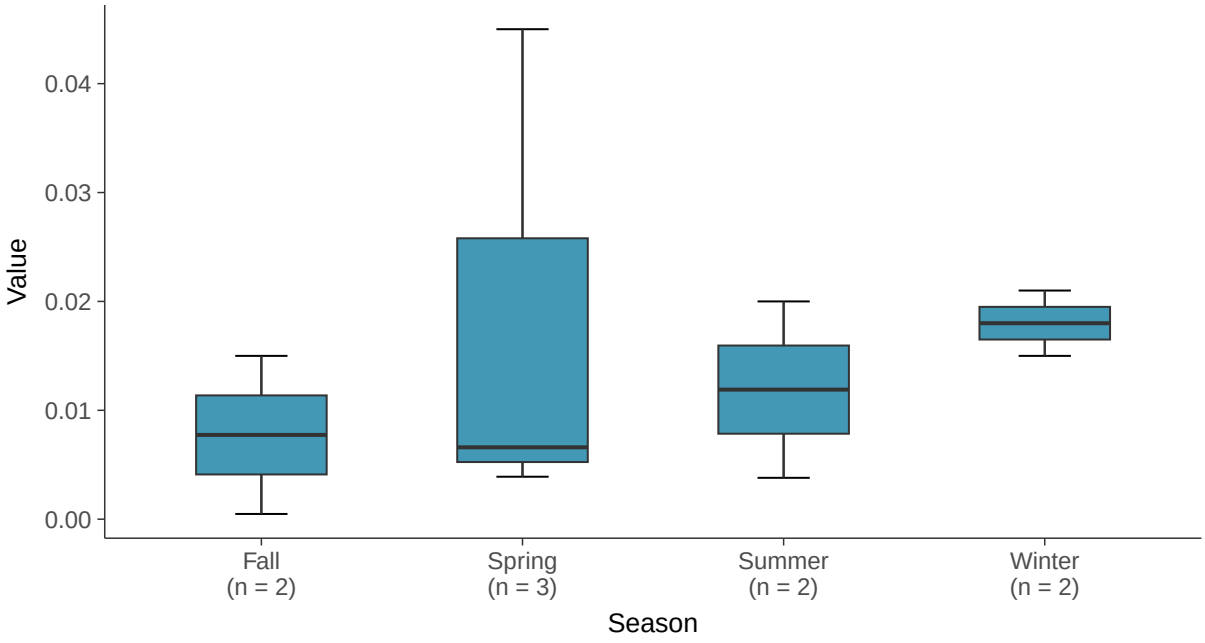
Boxplot

Zinc, MW-38 (mg/L)



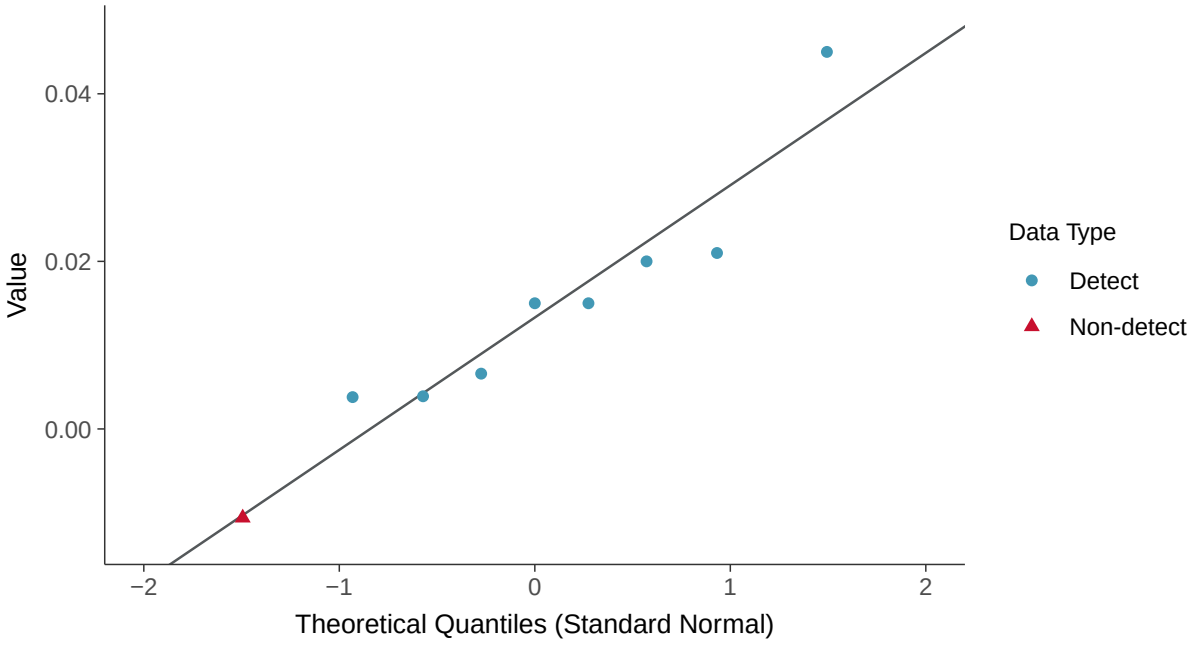
Boxplot by Season

Zinc, MW-38 (mg/L)



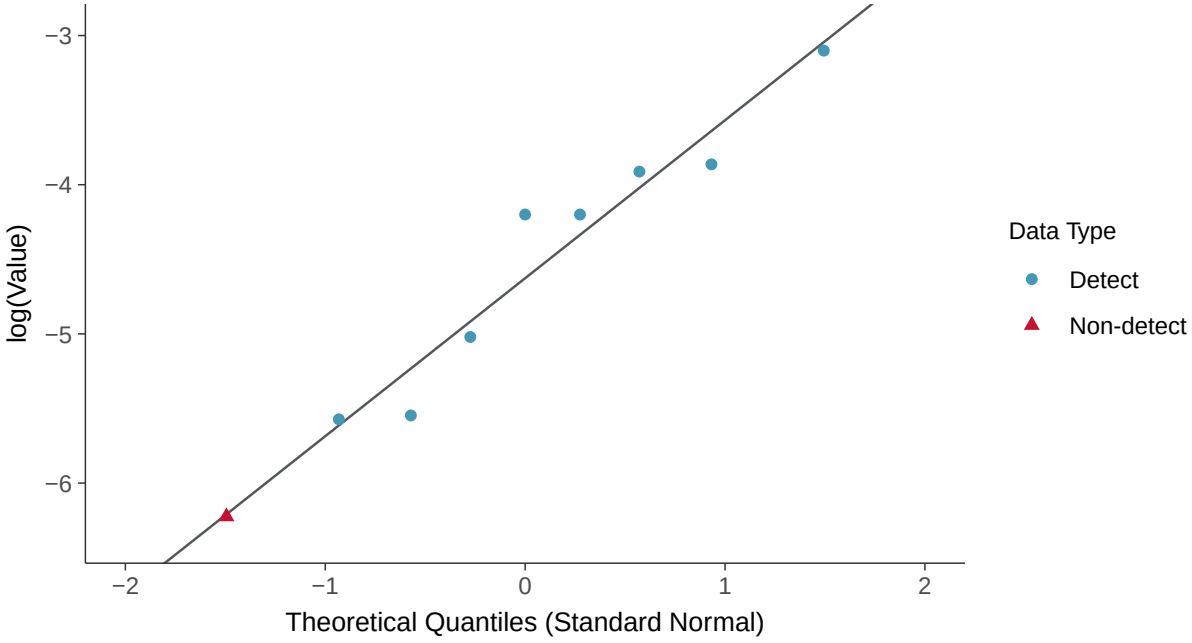
Normal Q-Q plot using ROS Imputed Estimates

Zinc, MW-38 (mg/L)



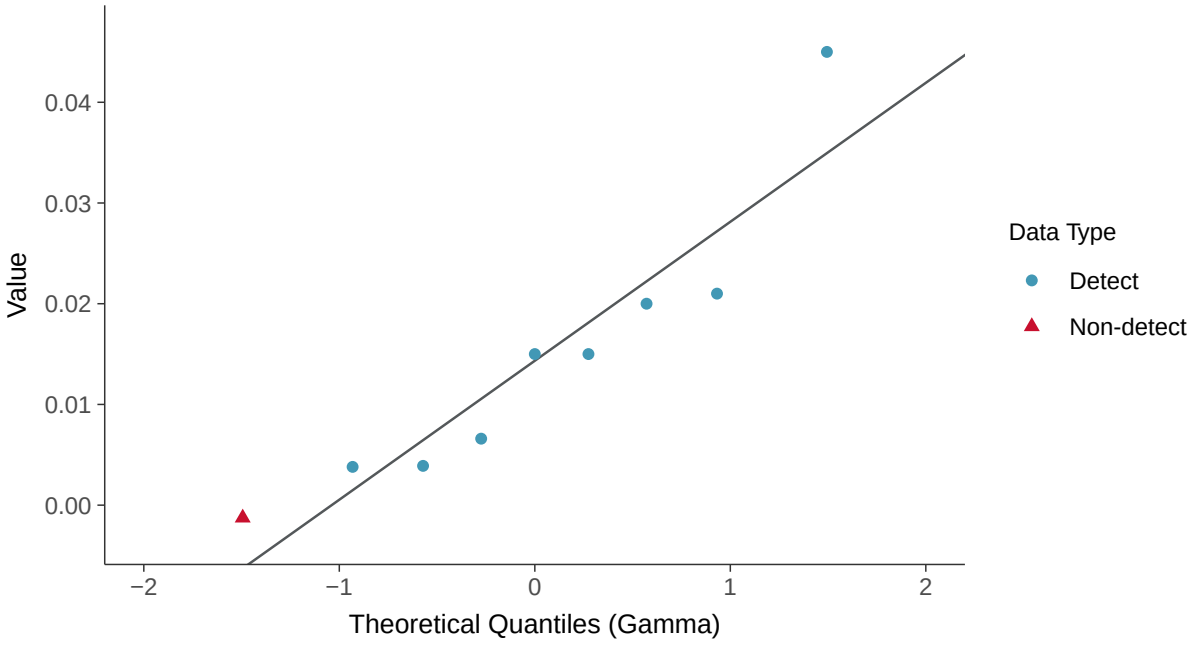
Lognormal Q-Q plot using ROS Imputed Estimates

Zinc, MW-38 (mg/L)



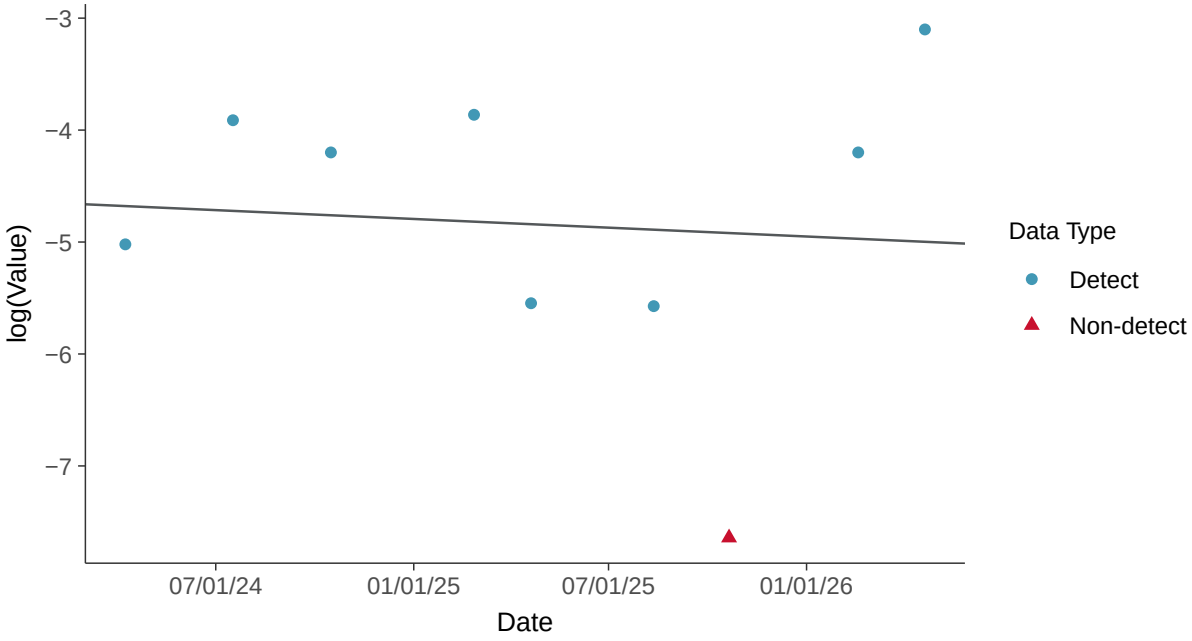
Gamma Q-Q plot using ROS Imputed Estimates

Zinc, MW-38 (mg/L)



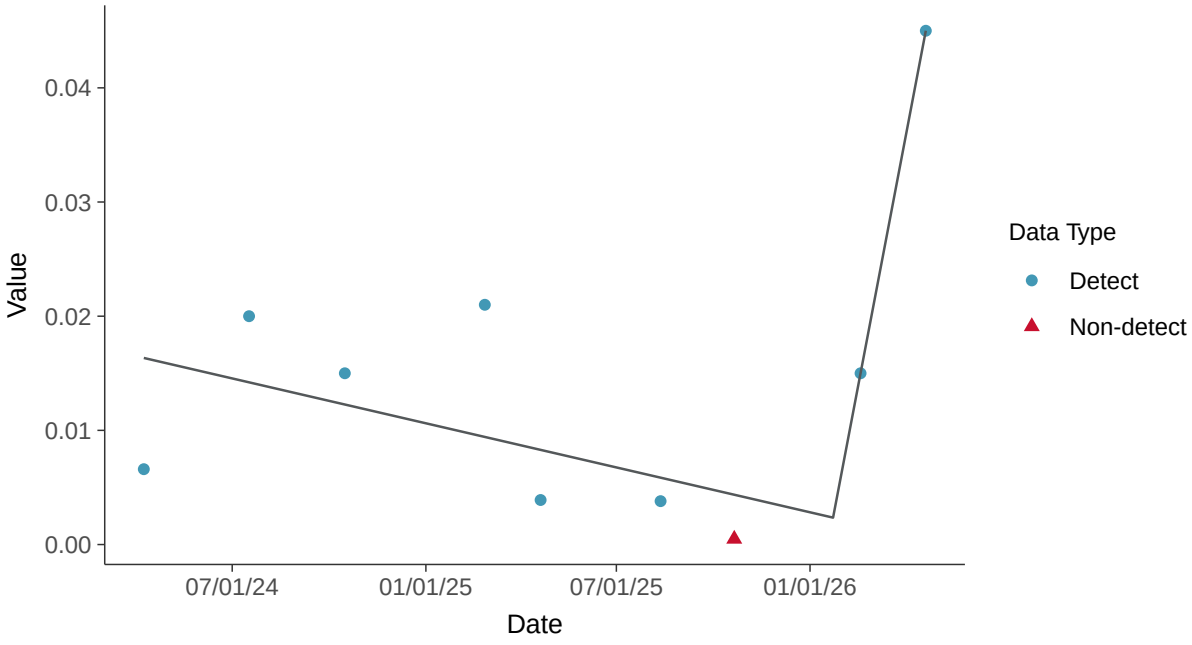
Trend Regression: Lognormal MLE

Zinc, MW-38 (mg/L)



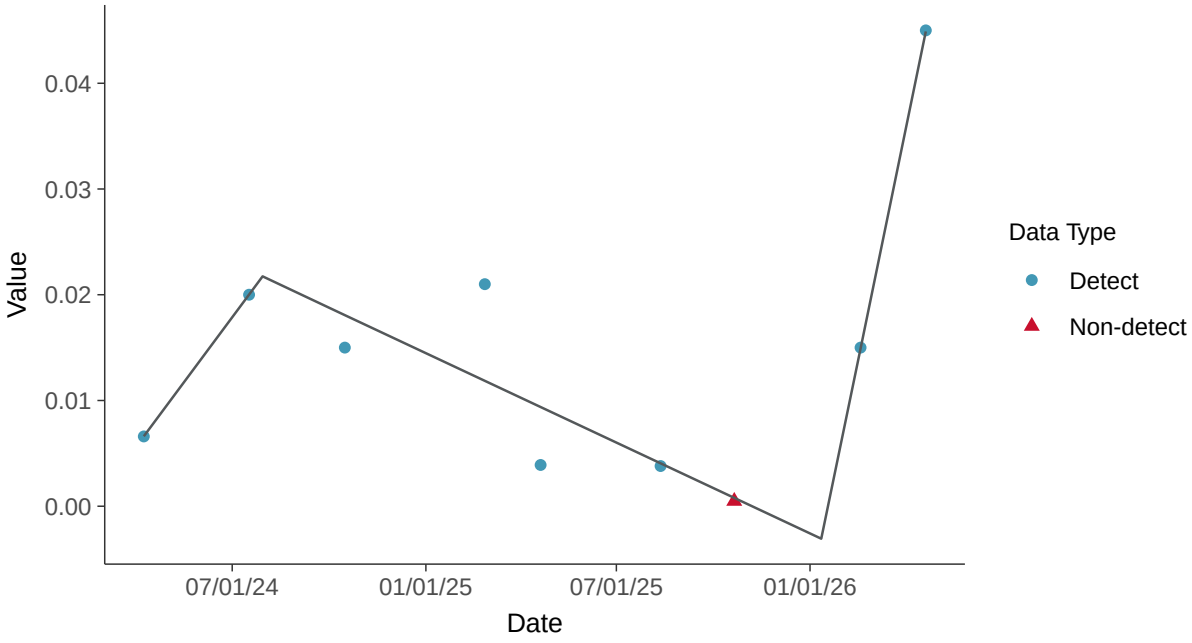
Trend Regression: Piecewise Linear-Linear

Zinc, MW-38 (mg/L)



Trend Regression: Piecewise Linear-Linear-Linear

Zinc, MW-38 (mg/L)



Grand Haven, Downgradient Wells
95% Lower Confidence Limits

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
11_2_3_105	MW-01R	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	94	Normal LCL
11_2_3_107	MW-01R	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	210	Normal LCL
11_2_3_108	MW-01R	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	110	Normal LCL
11_2_3_112	MW-01R	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	11	Normal LCL
11_2_3_120	MW-01R	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	7.7	Nonparametric LCL around the Median
11_2_3_124	MW-01R	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	310	Adjusted Gamma LCL
11_2_3_126	MW-01R	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	2300	Normal LCL
11_2_4_101	MW-01R	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-29 to 2026-04-22	0.00022	Nonparametric LCL around the Median
11_2_4_102	MW-01R	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.0013	Nonparametric LCL around the Median
11_2_4_103	MW-01R	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.31	Normal LCL
11_2_4_104	MW-01R	Appendix IV	Beryllium	mg/L	19	2	11%	2022-11-29 to 2026-04-22	0.00015	Normal MLE LCL
11_2_4_106	MW-01R	Appendix IV	Cadmium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	0.000075	Nonparametric LCL around the Median
11_2_4_109	MW-01R	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.0022	Lognormal H-LCL
11_2_4_110	MW-01R	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.0011	Nonparametric LCL around the Median
11_2_4_113	MW-01R	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	11	Normal LCL
11_2_4_115	MW-01R	Appendix IV	Lead	mg/L	19	2	11%	2022-11-29 to 2026-04-22	0.0010	Lognormal MLE Likelihood Profile LCL
11_2_4_116	MW-01R	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	2.0	Normal LCL
11_2_4_117	MW-01R	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-29 to 2026-04-22	160	Nonparametric LCL around the Median
11_2_4_118	MW-01R	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-29 to 2026-04-22	0.00088	Lognormal MLE Likelihood Profile LCL
11_2_4_121	MW-01R	Appendix IV	Radium 226 and 228	pCi/L	19	13	68%	2022-11-29 to 2026-04-22	0.75	Nonparametric LCL around the Median
11_2_4_122	MW-01R	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.00059	Nonparametric LCL around the Median
11_2_4_125	MW-01R	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-29 to 2026-04-22	0.000075	Nonparametric LCL around the Median
11_2_5_111	MW-01R	Part 115	Copper	mg/L	19	6	32%	2022-11-29 to 2026-04-22	0.00020	Nonparametric LCL around the Median
11_2_5_114	MW-01R	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.38	Adjusted Gamma LCL
11_2_5_119	MW-01R	Part 115	Nickel	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.0018	Nonparametric LCL around the Median
11_2_5_123	MW-01R	Part 115	Silver	mg/L	19	19	100%	2022-11-29 to 2026-04-22	0.000050	Nonparametric LCL around the Median
11_2_5_128	MW-01R	Part 115	Vanadium	mg/L	19	2	11%	2022-11-29 to 2026-04-22	0.0015	Normal MLE LCL
11_2_5_129	MW-01R	Part 115	Zinc	mg/L	19	3	16%	2022-11-29 to 2026-04-22	0.0069	Gamma MLE Normal Approx. LCL
12_2_3_105	MW-02	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	97	Lognormal H-LCL
12_2_3_107	MW-02	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	190	Normal LCL
12_2_3_108	MW-02	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	140	Nonparametric LCL around the Median
12_2_3_112	MW-02	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-22	9.4	Normal LCL
12_2_3_120	MW-02	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-22	7.2	Normal LCL
12_2_3_124	MW-02	Appendix III	Sulfate (as SO4)	mg/L	19	10	53%	2022-11-28 to 2026-04-22	0.41	Nonparametric LCL around the Median
12_2_3_126	MW-02	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-22	1800	Normal LCL
12_2_4_101	MW-02	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-28 to 2026-04-22	0.00018	Gamma MLE Normal Approx. LCL
12_2_4_102	MW-02	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0065	Normal LCL
12_2_4_103	MW-02	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.43	Normal LCL
12_2_4_104	MW-02	Appendix IV	Beryllium	mg/L	19	2	11%	2022-11-28 to 2026-04-22	0.00020	Normal MLE LCL
12_2_4_106	MW-02	Appendix IV	Cadmium	mg/L	19	13	68%	2022-11-28 to 2026-04-22	0.000075	Nonparametric LCL around the Median
12_2_4_109	MW-02	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.034	Normal LCL
12_2_4_110	MW-02	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0053	Normal LCL
12_2_4_113	MW-02	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	9.4	Normal LCL
12_2_4_115	MW-02	Appendix IV	Lead	mg/L	19	1	5%	2022-11-28 to 2026-04-22	0.0020	Normal MLE LCL
12_2_4_116	MW-02	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	1.3	Adjusted Gamma LCL
12_2_4_117	MW-02	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-22	160	Nonparametric LCL around the Median
12_2_4_118	MW-02	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0069	Lognormal H-LCL
12_2_4_121	MW-02	Appendix IV	Radium 226 and 228	pCi/L	18	6	33%	2022-11-28 to 2026-04-22	0.89	Normal MLE LCL
12_2_4_122	MW-02	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0011	Normal LCL
12_2_4_125	MW-02	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-28 to 2026-04-22	0.000075	Nonparametric LCL around the Median
12_2_5_111	MW-02	Part 115	Copper	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0017	Normal LCL
12_2_5_114	MW-02	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	22	Normal LCL
12_2_5_119	MW-02	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.021	Adjusted Gamma LCL
12_2_5_123	MW-02	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-22	0.000050	Nonparametric LCL around the Median
12_2_5_128	MW-02	Part 115	Vanadium	mg/L	19	1	5%	2022-11-28 to 2026-04-22	0.0031	Normal MLE LCL
12_2_5_129	MW-02	Part 115	Zinc	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0027	Nonparametric LCL around the Median
13_2_3_105	MW-03	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	3.9	Normal LCL
13_2_3_107	MW-03	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	340	Normal LCL
13_2_3_108	MW-03	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	130	Normal LCL
13_2_3_112	MW-03	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.60	Nonparametric LCL around the Median
13_2_3_120	MW-03	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	7.3	Normal LCL
13_2_3_124	MW-03	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	220	Adjusted Gamma LCL
13_2_3_126	MW-03	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	1700	Nonparametric LCL around the Median
13_2_4_101	MW-03	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-28 to 2026-04-20	0.00010	Nonparametric LCL around the Median
13_2_4_102	MW-03	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.00081	Normal LCL
13_2_4_103	MW-03	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.32	Normal LCL
13_2_4_104	MW-03	Appendix IV	Beryllium	mg/L	19	12	63%	2022-11-28 to 2026-04-20	0.000052	Nonparametric LCL around the Median
13_2_4_106	MW-03	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-28 to 2026-04-20	0.000075	Nonparametric LCL around the Median
13_2_4_109	MW-03	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.0039	Normal LCL
13_2_4_110	MW-03	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.00064	Normal LCL
13_2_4_113	MW-03	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.60	Nonparametric LCL around the Median
13_2_4_115	MW-03	Appendix IV	Lead	mg/L	19	18	95%	2022-11-28 to 2026-04-20	0.00010	Nonparametric LCL around the Median
13_2_4_116	MW-03	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.033	Adjusted Gamma LCL
13_2_4_117	MW-03	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-20	160	Nonparametric LCL around the Median
13_2_4_118	MW-03	Appendix IV	Molybdenum	mg/L	19	13	68%	2022-11-28 to 2026-04-20	0.00025	Nonparametric LCL around the Median
13_2_4_121	MW-03	Appendix IV	Radium 226 and 228	pCi/L	18	3	17%	2022-11-28 to 2026-04-20	0.85	Normal MLE LCL
13_2_4_122	MW-03	Appendix IV	Selenium	mg/L	19	3	16%	2022-11-28 to 2026-04-20	0.00032	Normal MLE LCL
13_2_4_125	MW-03	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-28 to 2026-04-20	0.000075	Nonparametric LCL around the Median
13_2_5_111	MW-03	Part 115	Copper	mg/L	19	9	47%	2022-11-28 to 2026-04-20	0.00020	Nonparametric LCL around the Median
13_2_5_114	MW-03	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.85	Adjusted Gamma LCL
13_2_5_119	MW-03	Part 115	Nickel	mg/L	19	1	5%	2022-11-28 to 2026-04-20	0.0012	Nonparametric LCL around the Median
13_2_5_123	MW-03	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-20	0.000050	Nonparametric LCL around the Median
13_2_5_128	MW-03	Part 115	Vanadium	mg/L	19	9	47%	2022-11-28 to 2026-04-20	0.00040	Normal MLE LCL

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
13_2_5_129	MW-03	Part 115	Zinc	mg/L	19	9	47%	2022-11-28 to 2026-04-20	0.0020	Gamma MLE Normal Approx. LCL
14_2_3_105	MW-04	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	3.7	Nonparametric LCL around the Median
14_2_3_107	MW-04	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	340	Normal LCL
14_2_3_108	MW-04	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	100	Normal LCL
14_2_3_112	MW-04	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	1.3	Normal LCL
14_2_3_120	MW-04	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	7.3	Nonparametric LCL around the Median
14_2_3_124	MW-04	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	520	Normal LCL
14_2_3_126	MW-04	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	1700	Normal LCL
14_2_4_101	MW-04	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-28 to 2026-04-20	0.00010	Nonparametric LCL around the Median
14_2_4_102	MW-04	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.00088	Nonparametric LCL around the Median
14_2_4_103	MW-04	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.11	Nonparametric LCL around the Median
14_2_4_104	MW-04	Appendix IV	Beryllium	mg/L	19	16	84%	2022-11-28 to 2026-04-20	0.000052	Nonparametric LCL around the Median
14_2_4_106	MW-04	Appendix IV	Cadmium	mg/L	19	19	100%	2022-11-28 to 2026-04-20	0.000075	Nonparametric LCL around the Median
14_2_4_109	MW-04	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.0028	Normal LCL
14_2_4_110	MW-04	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.00044	Lognormal H-LCL
14_2_4_113	MW-04	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	1.3	Normal LCL
14_2_4_115	MW-04	Appendix IV	Lead	mg/L	19	15	79%	2022-11-28 to 2026-04-20	0.00016	Nonparametric LCL around the Median
14_2_4_116	MW-04	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.053	Normal LCL
14_2_4_117	MW-04	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-28 to 2026-04-20	160	Nonparametric LCL around the Median
14_2_4_118	MW-04	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-28 to 2026-04-20	0.00086	Nonparametric LCL around the Median
14_2_4_121	MW-04	Appendix IV	Radium 226 and 228	pCi/L	19	6	32%	2022-11-28 to 2026-04-20	0.68	Normal MLE LCL
14_2_4_122	MW-04	Appendix IV	Selenium	mg/L	19	5	26%	2022-11-28 to 2026-04-20	0.00020	Lognormal MLE Likelihood Profile LCL
14_2_4_125	MW-04	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-28 to 2026-04-20	0.000075	Nonparametric LCL around the Median
14_2_5_111	MW-04	Part 115	Copper	mg/L	19	13	68%	2022-11-28 to 2026-04-20	0.00020	Nonparametric LCL around the Median
14_2_5_114	MW-04	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	5.0	Nonparametric LCL around the Median
14_2_5_119	MW-04	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.011	Normal LCL
14_2_5_123	MW-04	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-20	0.000050	Nonparametric LCL around the Median
14_2_5_128	MW-04	Part 115	Vanadium	mg/L	19	10	53%	2022-11-28 to 2026-04-20	0.00062	Nonparametric LCL around the Median
14_2_5_129	MW-04	Part 115	Zinc	mg/L	19	10	53%	2022-11-28 to 2026-04-20	0.0012	Nonparametric LCL around the Median
16_1_3_105	MW-06	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	8.8	Normal LCL
16_1_3_107	MW-06	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	230	Normal LCL
16_1_3_108	MW-06	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	50	Normal LCL
16_1_3_112	MW-06	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	1.1	Normal LCL
16_1_3_120	MW-06	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	7.3	Nonparametric LCL around the Median
16_1_3_124	MW-06	Appendix III	Sulfate (as SO4)	mg/L	19	2	11%	2022-11-29 to 2026-04-22	8.0	Gamma MLE Normal Approx. LCL
16_1_3_126	MW-06	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	1200	Nonparametric LCL around the Median
16_1_4_101	MW-06	Appendix IV	Antimony	mg/L	19	16	84%	2022-11-29 to 2026-04-22	0.00010	Nonparametric LCL around the Median
16_1_4_102	MW-06	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.00061	Normal LCL
16_1_4_103	MW-06	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	1.4	Nonparametric LCL around the Median
16_1_4_104	MW-06	Appendix IV	Beryllium	mg/L	19	16	84%	2022-11-29 to 2026-04-22	0.000052	Nonparametric LCL around the Median
16_1_4_106	MW-06	Appendix IV	Cadmium	mg/L	19	19	100%	2022-11-29 to 2026-04-22	0.000075	Nonparametric LCL around the Median
16_1_4_109	MW-06	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.0014	Adjusted Gamma LCL
16_1_4_110	MW-06	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.00042	Nonparametric LCL around the Median
16_1_4_113	MW-06	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	1.1	Normal LCL
16_1_4_115	MW-06	Appendix IV	Lead	mg/L	19	10	53%	2022-11-29 to 2026-04-22	0.00011	Nonparametric LCL around the Median
16_1_4_116	MW-06	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.16	Normal LCL
16_1_4_117	MW-06	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-29 to 2026-04-22	160	Nonparametric LCL around the Median
16_1_4_118	MW-06	Appendix IV	Molybdenum	mg/L	19	10	53%	2022-11-29 to 2026-04-22	0.00025	Nonparametric LCL around the Median
16_1_4_121	MW-06	Appendix IV	Radium 226 and 228	pCi/L	19	4	21%	2022-11-29 to 2026-04-22	0.71	Gamma MLE Normal Approx. LCL
16_1_4_122	MW-06	Appendix IV	Selenium	mg/L	19	5	26%	2022-11-29 to 2026-04-22	0.00021	Nonparametric LCL around the Median
16_1_4_125	MW-06	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-29 to 2026-04-22	0.000075	Nonparametric LCL around the Median
16_1_5_111	MW-06	Part 115	Copper	mg/L	19	13	68%	2022-11-29 to 2026-04-22	0.00020	Nonparametric LCL around the Median
16_1_5_114	MW-06	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	13	Normal LCL
16_1_5_119	MW-06	Part 115	Nickel	mg/L	19	6	32%	2022-11-29 to 2026-04-22	0.00065	Nonparametric LCL around the Median
16_1_5_123	MW-06	Part 115	Silver	mg/L	19	18	95%	2022-11-29 to 2026-04-22	0.000050	Nonparametric LCL around the Median
16_1_5_128	MW-06	Part 115	Vanadium	mg/L	19	14	74%	2022-11-29 to 2026-04-22	0.00062	Nonparametric LCL around the Median
16_1_5_129	MW-06	Part 115	Zinc	mg/L	19	2	11%	2022-11-29 to 2026-04-22	0.0013	Nonparametric LCL around the Median
17_1_3_105	MW-07	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	11	Nonparametric LCL around the Median
17_1_3_107	MW-07	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	140	Normal LCL
17_1_3_108	MW-07	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	14	Nonparametric LCL around the Median
17_1_3_112	MW-07	Appendix III	Fluoride	mg/L	19	4	21%	2022-11-30 to 2026-04-21	0.087	Normal MLE LCL
17_1_3_120	MW-07	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	6.9	Nonparametric LCL around the Median
17_1_3_124	MW-07	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	23	Normal LCL
17_1_3_126	MW-07	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	630	Normal LCL
17_1_4_101	MW-07	Appendix IV	Antimony	mg/L	19	18	95%	2022-11-30 to 2026-04-21	0.00010	Nonparametric LCL around the Median
17_1_4_102	MW-07	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.00018	Normal LCL
17_1_4_103	MW-07	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.34	Normal LCL
17_1_4_104	MW-07	Appendix IV	Beryllium	mg/L	19	14	74%	2022-11-30 to 2026-04-21	0.000052	Nonparametric LCL around the Median
17_1_4_106	MW-07	Appendix IV	Cadmium	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.000075	Nonparametric LCL around the Median
17_1_4_109	MW-07	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.00032	Adjusted Gamma LCL
17_1_4_110	MW-07	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.00089	Normal LCL
17_1_4_113	MW-07	Appendix IV	Fluoride (App IV)	mg/L	19	4	21%	2022-11-30 to 2026-04-21	0.087	Normal MLE LCL
17_1_4_115	MW-07	Appendix IV	Lead	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.00010	Nonparametric LCL around the Median
17_1_4_116	MW-07	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.0056	Normal LCL
17_1_4_117	MW-07	Appendix IV	Mercury	ng/L	19	18	95%	2022-11-30 to 2026-04-21	160	Nonparametric LCL around the Median
17_1_4_118	MW-07	Appendix IV	Molybdenum	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.00025	Nonparametric LCL around the Median
17_1_4_121	MW-07	Appendix IV	Radium 226 and 228	pCi/L	19	2	11%	2022-11-30 to 2026-04-21	0.83	Gamma MLE Normal Approx. LCL
17_1_4_122	MW-07	Appendix IV	Selenium	mg/L	19	9	47%	2022-11-30 to 2026-04-21	0.00011	Nonparametric LCL around the Median
17_1_4_125	MW-07	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.000075	Nonparametric LCL around the Median
17_1_5_111	MW-07	Part 115	Copper	mg/L	19	14	74%	2022-11-30 to 2026-04-21	0.00020	Nonparametric LCL around the Median
17_1_5_114	MW-07	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	16	Normal LCL
17_1_5_119	MW-07	Part 115	Nickel	mg/L	19	14	74%	2022-11-30 to 2026-04-21	0.00065	Nonparametric LCL around the Median
17_1_5_123	MW-07	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.000050	Nonparametric LCL around the Median
17_1_5_128	MW-07	Part 115	Vanadium	mg/L	19	12	63%	2022-11-30 to 2026-04-21	0.00062	Nonparametric LCL around the Median
17_1_5_129	MW-07	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-21	0.0012	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
18_1_3_105	MW-08	Appendix III	Boron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	5.4	Normal LCL
18_1_3_107	MW-08	Appendix III	Calcium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	120	Normal LCL
18_1_3_108	MW-08	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	25	Nonparametric LCL around the Median
18_1_3_112	MW-08	Appendix III	Fluoride	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.85	Normal LCL
18_1_3_120	MW-08	Appendix III	pH (field)	su	19	0	0%	2022-12-01 to 2026-04-21	7.2	Nonparametric LCL around the Median
18_1_3_124	MW-08	Appendix III	Sulfate (as SO4)	mg/L	19	5	26%	2022-12-01 to 2026-04-21	5.7	Gamma MLE Normal Approx. LCL
18_1_3_126	MW-08	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-12-01 to 2026-04-21	500	Normal LCL
18_1_4_101	MW-08	Appendix IV	Antimony	mg/L	19	11	58%	2022-12-01 to 2026-04-21	0.00010	Nonparametric LCL around the Median
18_1_4_102	MW-08	Appendix IV	Arsenic	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.033	Normal LCL
18_1_4_103	MW-08	Appendix IV	Barium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	1.1	Normal LCL
18_1_4_104	MW-08	Appendix IV	Beryllium	mg/L	19	18	95%	2022-12-01 to 2026-04-21	0.000052	Nonparametric LCL around the Median
18_1_4_106	MW-08	Appendix IV	Cadmium	mg/L	19	18	95%	2022-12-01 to 2026-04-21	0.000075	Nonparametric LCL around the Median
18_1_4_109	MW-08	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.00065	Normal LCL
18_1_4_110	MW-08	Appendix IV	Cobalt	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.00041	Normal LCL
18_1_4_113	MW-08	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.85	Normal LCL
18_1_4_115	MW-08	Appendix IV	Lead	mg/L	19	12	63%	2022-12-01 to 2026-04-21	0.00010	Nonparametric LCL around the Median
18_1_4_116	MW-08	Appendix IV	Lithium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.087	Normal LCL
18_1_4_117	MW-08	Appendix IV	Mercury	ng/L	19	17	89%	2022-12-01 to 2026-04-21	160	Nonparametric LCL around the Median
18_1_4_118	MW-08	Appendix IV	Molybdenum	mg/L	19	1	5%	2022-12-01 to 2026-04-21	0.0011	Normal MLE LCL
18_1_4_121	MW-08	Appendix IV	Radium 226 and 228	pCi/L	19	5	26%	2022-12-01 to 2026-04-21	0.70	Normal MLE LCL
18_1_4_122	MW-08	Appendix IV	Selenium	mg/L	19	7	37%	2022-12-01 to 2026-04-21	0.00013	Lognormal MLE Likelihood Profile LCL
18_1_4_125	MW-08	Appendix IV	Thallium	mg/L	19	18	95%	2022-12-01 to 2026-04-21	0.000075	Nonparametric LCL around the Median
18_1_5_111	MW-08	Part 115	Copper	mg/L	19	6	32%	2022-12-01 to 2026-04-21	0.00019	Normal MLE LCL
18_1_5_114	MW-08	Part 115	Iron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	15	Normal LCL
18_1_5_119	MW-08	Part 115	Nickel	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.0011	Nonparametric LCL around the Median
18_1_5_123	MW-08	Part 115	Silver	mg/L	19	19	100%	2022-12-01 to 2026-04-21	0.000050	Nonparametric LCL around the Median
18_1_5_128	MW-08	Part 115	Vanadium	mg/L	19	16	84%	2022-12-01 to 2026-04-21	0.00062	Nonparametric LCL around the Median
18_1_5_129	MW-08	Part 115	Zinc	mg/L	19	3	16%	2022-12-01 to 2026-04-21	0.0015	Nonparametric LCL around the Median
19_2_3_105	MW-09	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	5.1	Nonparametric LCL around the Median
19_2_3_107	MW-09	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	370	Normal LCL
19_2_3_108	MW-09	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	23	Lognormal H-LCL
19_2_3_112	MW-09	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-22	2.4	Normal LCL
19_2_3_120	MW-09	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-22	7.1	Normal LCL
19_2_3_124	MW-09	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	450	Normal LCL
19_2_3_126	MW-09	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-22	1400	Normal LCL
19_2_4_101	MW-09	Appendix IV	Antimony	mg/L	19	12	63%	2022-11-28 to 2026-04-22	0.00010	Nonparametric LCL around the Median
19_2_4_102	MW-09	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0019	Normal LCL
19_2_4_103	MW-09	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.21	Lognormal H-LCL
19_2_4_104	MW-09	Appendix IV	Beryllium	mg/L	19	14	74%	2022-11-28 to 2026-04-22	0.000052	Nonparametric LCL around the Median
19_2_4_106	MW-09	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-28 to 2026-04-22	0.000075	Nonparametric LCL around the Median
19_2_4_109	MW-09	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0020	Normal LCL
19_2_4_110	MW-09	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.00037	Nonparametric LCL around the Median
19_2_4_113	MW-09	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-22	2.4	Normal LCL
19_2_4_115	MW-09	Appendix IV	Lead	mg/L	19	17	89%	2022-11-28 to 2026-04-22	0.00010	Nonparametric LCL around the Median
19_2_4_116	MW-09	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.30	Lognormal H-LCL
19_2_4_117	MW-09	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-28 to 2026-04-22	160	Nonparametric LCL around the Median
19_2_4_118	MW-09	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.020	Normal LCL
19_2_4_121	MW-09	Appendix IV	Radium 226 and 228	pCi/L	19	17	89%	2022-11-28 to 2026-04-22	0.69	Nonparametric LCL around the Median
19_2_4_122	MW-09	Appendix IV	Selenium	mg/L	19	2	11%	2022-11-28 to 2026-04-22	0.00024	Nonparametric LCL around the Median
19_2_4_125	MW-09	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-28 to 2026-04-22	0.000075	Nonparametric LCL around the Median
19_2_5_111	MW-09	Part 115	Copper	mg/L	19	11	58%	2022-11-28 to 2026-04-22	0.00020	Nonparametric LCL around the Median
19_2_5_114	MW-09	Part 115	Iron	mg/L	19	0	0%	2022-11-28 to 2026-04-22	17	Normal LCL
19_2_5_119	MW-09	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-22	0.0072	Adjusted Gamma LCL
19_2_5_123	MW-09	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-22	0.000050	Nonparametric LCL around the Median
19_2_5_128	MW-09	Part 115	Vanadium	mg/L	19	15	79%	2022-11-28 to 2026-04-22	0.00062	Nonparametric LCL around the Median
19_2_5_129	MW-09	Part 115	Zinc	mg/L	19	8	42%	2022-11-28 to 2026-04-22	0.0029	Gamma MLE Normal Approx. LCL
20_3_3_105	MW-10	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-23	16	Normal LCL
20_3_3_107	MW-10	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	250	Adjusted Gamma LCL
20_3_3_108	MW-10	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	250	Normal LCL
20_3_3_112	MW-10	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-23	4.7	Normal LCL
20_3_3_120	MW-10	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-23	7.5	Nonparametric LCL around the Median
20_3_3_124	MW-10	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	400	Normal LCL
20_3_3_126	MW-10	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-23	1900	Lognormal H-LCL
20_3_4_101	MW-10	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-29 to 2026-04-23	0.00010	Nonparametric LCL around the Median
20_3_4_102	MW-10	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-23	0.00061	Normal LCL
20_3_4_103	MW-10	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	0.28	Normal LCL
20_3_4_104	MW-10	Appendix IV	Beryllium	mg/L	19	9	47%	2022-11-29 to 2026-04-23	0.0000059	Normal MLE LCL
20_3_4_106	MW-10	Appendix IV	Cadmium	mg/L	19	19	100%	2022-11-29 to 2026-04-23	0.000075	Nonparametric LCL around the Median
20_3_4_109	MW-10	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-23	0.0033	Normal LCL
20_3_4_110	MW-10	Appendix IV	Cobalt	mg/L	19	1	5%	2022-11-29 to 2026-04-23	0.00035	Gamma MLE Normal Approx. LCL
20_3_4_113	MW-10	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-23	4.7	Normal LCL
20_3_4_115	MW-10	Appendix IV	Lead	mg/L	19	17	89%	2022-11-29 to 2026-04-23	0.00010	Nonparametric LCL around the Median
20_3_4_116	MW-10	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-23	0.84	Adjusted Gamma LCL
20_3_4_117	MW-10	Appendix IV	Mercury	ng/L	19	16	84%	2022-11-29 to 2026-04-23	160	Nonparametric LCL around the Median
20_3_4_118	MW-10	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-29 to 2026-04-23	0.0022	Normal LCL
20_3_4_121	MW-10	Appendix IV	Radium 226 and 228	pCi/L	19	15	79%	2022-11-29 to 2026-04-23	0.73	Nonparametric LCL around the Median
20_3_4_122	MW-10	Appendix IV	Selenium	mg/L	19	1	5%	2022-11-29 to 2026-04-23	0.00030	Gamma MLE Normal Approx. LCL
20_3_4_125	MW-10	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-29 to 2026-04-23	0.000075	Nonparametric LCL around the Median
20_3_5_111	MW-10	Part 115	Copper	mg/L	19	16	84%	2022-11-29 to 2026-04-23	0.00020	Nonparametric LCL around the Median
20_3_5_114	MW-10	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-23	4.2	Normal LCL
20_3_5_119	MW-10	Part 115	Nickel	mg/L	19	7	37%	2022-11-29 to 2026-04-23	0.00065	Nonparametric LCL around the Median
20_3_5_123	MW-10	Part 115	Silver	mg/L	19	19	100%	2022-11-29 to 2026-04-23	0.000050	Nonparametric LCL around the Median
20_3_5_128	MW-10	Part 115	Vanadium	mg/L	19	12	63%	2022-11-29 to 2026-04-23	0.00062	Nonparametric LCL around the Median
20_3_5_129	MW-10	Part 115	Zinc	mg/L	19	7	37%	2022-11-29 to 2026-04-23	0.0028	Gamma MLE Normal Approx. LCL
21_2_3_105	MW-11	Appendix III	Boron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	5.4	Normal LCL

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
21_2_3_107	MW-11	Appendix III	Calcium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	220	Normal LCL
21_2_3_108	MW-11	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	61	Normal LCL
21_2_3_112	MW-11	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.57	Normal LCL
21_2_3_120	MW-11	Appendix III	pH (field)	su	19	0	0%	2022-11-29 to 2026-04-22	7.3	Normal LCL
21_2_3_124	MW-11	Appendix III	Sulfate (as SO4)	mg/L	19	7	37%	2022-11-29 to 2026-04-22	6.6	Gamma MLE Normal Approx. LCL
21_2_3_126	MW-11	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-29 to 2026-04-22	910	Normal LCL
21_2_4_101	MW-11	Appendix IV	Antimony	mg/L	19	14	74%	2022-11-29 to 2026-04-22	0.00010	Nonparametric LCL around the Median
21_2_4_102	MW-11	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.0017	Adjusted Gamma LCL
21_2_4_103	MW-11	Appendix IV	Barium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.60	Normal LCL
21_2_4_104	MW-11	Appendix IV	Beryllium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	0.000052	Nonparametric LCL around the Median
21_2_4_106	MW-11	Appendix IV	Cadmium	mg/L	19	16	84%	2022-11-29 to 2026-04-22	0.000075	Nonparametric LCL around the Median
21_2_4_109	MW-11	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.00080	Nonparametric LCL around the Median
21_2_4_110	MW-11	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.00052	Lognormal H-LCL
21_2_4_113	MW-11	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.57	Normal LCL
21_2_4_115	MW-11	Appendix IV	Lead	mg/L	19	3	16%	2022-11-29 to 2026-04-22	0.00041	Nonparametric LCL around the Median
21_2_4_116	MW-11	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.054	Normal LCL
21_2_4_117	MW-11	Appendix IV	Mercury	ng/L	19	13	68%	2022-11-29 to 2026-04-22	160	Nonparametric LCL around the Median
21_2_4_118	MW-11	Appendix IV	Molybdenum	mg/L	19	2	11%	2022-11-29 to 2026-04-22	0.0011	Normal MLE LCL
21_2_4_121	MW-11	Appendix IV	Radium 226 and 228	pCi/L	18	7	39%	2022-11-29 to 2026-04-22	0.60	Normal MLE LCL
21_2_4_122	MW-11	Appendix IV	Selenium	mg/L	19	3	16%	2022-11-29 to 2026-04-22	0.00017	Normal MLE LCL
21_2_4_125	MW-11	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-29 to 2026-04-22	0.000075	Nonparametric LCL around the Median
21_2_5_111	MW-11	Part 115	Copper	mg/L	19	4	21%	2022-11-29 to 2026-04-22	0.00024	Nonparametric LCL around the Median
21_2_5_114	MW-11	Part 115	Iron	mg/L	19	0	0%	2022-11-29 to 2026-04-22	6.8	Normal LCL
21_2_5_119	MW-11	Part 115	Nickel	mg/L	19	0	0%	2022-11-29 to 2026-04-22	0.0013	Nonparametric LCL around the Median
21_2_5_123	MW-11	Part 115	Silver	mg/L	19	16	84%	2022-11-29 to 2026-04-22	0.000050	Nonparametric LCL around the Median
21_2_5_128	MW-11	Part 115	Vanadium	mg/L	19	13	68%	2022-11-29 to 2026-04-22	0.00062	Nonparametric LCL around the Median
21_2_5_129	MW-11	Part 115	Zinc	mg/L	19	4	21%	2022-11-29 to 2026-04-22	0.011	Gamma MLE Normal Approx. LCL
22_2_3_105	MW-12	Appendix III	Boron	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.27	Normal LCL
22_2_3_107	MW-12	Appendix III	Calcium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	57	Normal LCL
22_2_3_108	MW-12	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	16	Normal LCL
22_2_3_112	MW-12	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.28	Lognormal H-LCL
22_2_3_120	MW-12	Appendix III	pH (field)	su	19	0	0%	2022-11-28 to 2026-04-20	7.5	Normal LCL
22_2_3_124	MW-12	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	78	Normal LCL
22_2_3_126	MW-12	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-28 to 2026-04-20	240	Normal LCL
22_2_4_101	MW-12	Appendix IV	Antimony	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.00057	Normal LCL
22_2_4_102	MW-12	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.0022	Adjusted Gamma LCL
22_2_4_103	MW-12	Appendix IV	Barium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.038	Normal LCL
22_2_4_104	MW-12	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-28 to 2026-04-20	0.000052	Nonparametric LCL around the Median
22_2_4_106	MW-12	Appendix IV	Cadmium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.0016	Adjusted Gamma LCL
22_2_4_109	MW-12	Appendix IV	Chromium, Total	mg/L	19	6	32%	2022-11-28 to 2026-04-20	0.00020	Normal MLE LCL
22_2_4_110	MW-12	Appendix IV	Cobalt	mg/L	19	5	26%	2022-11-28 to 2026-04-20	0.00023	Gamma MLE Normal Approx. LCL
22_2_4_113	MW-12	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.28	Lognormal H-LCL
22_2_4_115	MW-12	Appendix IV	Lead	mg/L	19	6	32%	2022-11-28 to 2026-04-20	0.00014	Normal MLE LCL
22_2_4_116	MW-12	Appendix IV	Lithium	mg/L	19	1	5%	2022-11-28 to 2026-04-20	0.0031	Normal MLE LCL
22_2_4_117	MW-12	Appendix IV	Mercury	ng/L	19	12	63%	2022-11-28 to 2026-04-20	160	Nonparametric LCL around the Median
22_2_4_118	MW-12	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.0065	Adjusted Gamma LCL
22_2_4_121	MW-12	Appendix IV	Radium 226 and 228	pCi/L	19	11	58%	2022-11-28 to 2026-04-20	0.54	Nonparametric LCL around the Median
22_2_4_122	MW-12	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.00085	Adjusted Gamma LCL
22_2_4_125	MW-12	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-28 to 2026-04-20	0.000075	Nonparametric LCL around the Median
22_2_5_111	MW-12	Part 115	Copper	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.0012	Normal LCL
22_2_5_114	MW-12	Part 115	Iron	mg/L	19	6	32%	2022-11-28 to 2026-04-20	0.026	Nonparametric LCL around the Median
22_2_5_119	MW-12	Part 115	Nickel	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.0024	Adjusted Gamma LCL
22_2_5_123	MW-12	Part 115	Silver	mg/L	19	19	100%	2022-11-28 to 2026-04-20	0.000050	Nonparametric LCL around the Median
22_2_5_128	MW-12	Part 115	Vanadium	mg/L	19	6	32%	2022-11-28 to 2026-04-20	0.00058	Normal MLE LCL
22_2_5_129	MW-12	Part 115	Zinc	mg/L	19	0	0%	2022-11-28 to 2026-04-20	0.0085	Adjusted Gamma LCL
26_1_3_105	MW-16	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-23	0.27	Normal LCL
26_1_3_107	MW-16	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	220	Normal LCL
26_1_3_108	MW-16	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-23	18	Normal LCL
26_1_3_112	MW-16	Appendix III	Fluoride	mg/L	9	1	11%	2024-04-08 to 2026-04-23	0.12	Normal MLE LCL
26_1_3_120	MW-16	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-23	6.8	Normal LCL
26_1_3_124	MW-16	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	2024-04-08 to 2026-04-23	5.6	Gamma MLE Normal Approx. LCL
26_1_3_126	MW-16	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-23	750	Normal LCL
26_1_4_101	MW-16	Appendix IV	Antimony	mg/L	9	8	89%	2024-04-08 to 2026-04-23	0.00010	Nonparametric LCL around the Median
26_1_4_102	MW-16	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-23	0.0040	Normal LCL
26_1_4_103	MW-16	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	0.21	Normal LCL
26_1_4_104	MW-16	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-23	0.000052	Nonparametric LCL around the Median
26_1_4_106	MW-16	Appendix IV	Cadmium	mg/L	9	9	100%	2024-04-08 to 2026-04-23	0.000075	Nonparametric LCL around the Median
26_1_4_109	MW-16	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-23	0.00064	Normal LCL
26_1_4_110	MW-16	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-23	0.00021	Lognormal H-LCL
26_1_4_113	MW-16	Appendix IV	Fluoride (App IV)	mg/L	9	1	11%	2024-04-08 to 2026-04-23	0.12	Normal MLE LCL
26_1_4_115	MW-16	Appendix IV	Lead	mg/L	9	6	67%	2024-04-08 to 2026-04-23	0.00010	Nonparametric LCL around the Median
26_1_4_116	MW-16	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-23	0.019	Normal LCL
26_1_4_117	MW-16	Appendix IV	Mercury	ng/L	9	7	78%	2024-04-08 to 2026-04-23	0.16	Nonparametric LCL around the Median
26_1_4_118	MW-16	Appendix IV	Molybdenum	mg/L	9	8	89%	2024-04-08 to 2026-04-23	0.00025	Nonparametric LCL around the Median
26_1_4_121	MW-16	Appendix IV	Radium 226 and 228	pCi/L	9	4	44%	2024-04-08 to 2026-04-23	0.47	Normal MLE LCL
26_1_4_122	MW-16	Appendix IV	Selenium	mg/L	9	1	11%	2024-04-08 to 2026-04-23	0.00011	Normal MLE LCL
26_1_4_125	MW-16	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-23	0.000075	Nonparametric LCL around the Median
26_1_5_111	MW-16	Part 115	Copper	mg/L	9	4	44%	2024-04-08 to 2026-04-23	0.00013	Normal MLE LCL
26_1_5_114	MW-16	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-23	5.5	Normal LCL
26_1_5_119	MW-16	Part 115	Nickel	mg/L	9	1	11%	2024-04-08 to 2026-04-23	0.0011	Gamma MLE Normal Approx. LCL
26_1_5_123	MW-16	Part 115	Silver	mg/L	9	9	100%	2024-04-08 to 2026-04-23	0.000050	Nonparametric LCL around the Median
26_1_5_128	MW-16	Part 115	Vanadium	mg/L	9	3	33%	2024-04-08 to 2026-04-23	0.00044	Normal MLE LCL
26_1_5_129	MW-16	Part 115	Zinc	mg/L	9	2	22%	2024-04-08 to 2026-04-23	0.0028	Gamma MLE Normal Approx. LCL
27_1_3_105	MW-17	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.55	Normal LCL
27_1_3_107	MW-17	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	120	Normal LCL

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
27_1_3_108	MW-17	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	25	Normal LCL
27_1_3_112	MW-17	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.51	Normal LCL
27_1_3_120	MW-17	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	7.5	Normal LCL
27_1_3_124	MW-17	Appendix III	Sulfate (as SO4)	mg/L	9	1	11%	2024-04-08 to 2026-04-21	3.5	Gamma MLE Normal Approx. LCL
27_1_3_126	MW-17	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	510	Normal LCL
27_1_4_101	MW-17	Appendix IV	Antimony	mg/L	9	7	78%	2024-04-08 to 2026-04-21	0.00010	Nonparametric LCL around the Median
27_1_4_102	MW-17	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0015	Normal LCL
27_1_4_103	MW-17	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.52	Normal LCL
27_1_4_104	MW-17	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21	0.000052	Nonparametric LCL around the Median
27_1_4_106	MW-17	Appendix IV	Cadmium	mg/L	9	8	89%	2024-04-08 to 2026-04-21	0.000075	Nonparametric LCL around the Median
27_1_4_109	MW-17	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00065	Adjusted Gamma LCL
27_1_4_110	MW-17	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00031	Normal LCL
27_1_4_113	MW-17	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.51	Normal LCL
27_1_4_115	MW-17	Appendix IV	Lead	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.00020	Normal MLE LCL
27_1_4_116	MW-17	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.026	Normal LCL
27_1_4_117	MW-17	Appendix IV	Mercury	ng/L	9	6	67%	2024-04-08 to 2026-04-21	0.16	Nonparametric LCL around the Median
27_1_4_118	MW-17	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00052	Nonparametric LCL around the Median
27_1_4_121	MW-17	Appendix IV	Radium 226 and 228	pCi/L	9	3	33%	2024-04-08 to 2026-04-21	0.58	Normal MLE LCL
27_1_4_122	MW-17	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00013	Nonparametric LCL around the Median
27_1_4_125	MW-17	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-21	0.000075	Nonparametric LCL around the Median
27_1_5_111	MW-17	Part 115	Copper	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.00068	Gamma MLE Normal Approx. LCL
27_1_5_114	MW-17	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	3.5	Normal LCL
27_1_5_119	MW-17	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0012	Lognormal H-LCL
27_1_5_123	MW-17	Part 115	Silver	mg/L	9	9	100%	2024-04-08 to 2026-04-21	0.000050	Nonparametric LCL around the Median
27_1_5_128	MW-17	Part 115	Vanadium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00064	Normal LCL
27_1_5_129	MW-17	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.012	Adjusted Gamma LCL
28_1_3_105	MW-18	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	2.6	Normal LCL
28_1_3_107	MW-18	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	290	Normal LCL
28_1_3_108	MW-18	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	20	Normal LCL
28_1_3_112	MW-18	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-22	3.6	Normal LCL
28_1_3_120	MW-18	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-22	7.2	Normal LCL
28_1_3_124	MW-18	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	660	Normal LCL
28_1_3_126	MW-18	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-22	1200	Normal LCL
28_1_4_101	MW-18	Appendix IV	Antimony	mg/L	19	3	16%	2022-11-30 to 2026-04-22	0.00019	Lognormal MLE Likelihood Profile LCL
28_1_4_102	MW-18	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.023	Normal LCL
28_1_4_103	MW-18	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.020	Lognormal H-LCL
28_1_4_104	MW-18	Appendix IV	Beryllium	mg/L	19	15	79%	2022-11-30 to 2026-04-22	0.000052	Nonparametric LCL around the Median
28_1_4_106	MW-18	Appendix IV	Cadmium	mg/L	19	7	37%	2022-11-30 to 2026-04-22	0.00014	Gamma MLE Normal Approx. LCL
28_1_4_109	MW-18	Appendix IV	Chromium, Total	mg/L	19	16	84%	2022-11-30 to 2026-04-22	0.00020	Nonparametric LCL around the Median
28_1_4_110	MW-18	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.0020	Lognormal H-LCL
28_1_4_113	MW-18	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	3.6	Normal LCL
28_1_4_115	MW-18	Appendix IV	Lead	mg/L	19	12	63%	2022-11-30 to 2026-04-22	0.00014	Nonparametric LCL around the Median
28_1_4_116	MW-18	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.032	Normal LCL
28_1_4_117	MW-18	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-30 to 2026-04-22	160	Nonparametric LCL around the Median
28_1_4_118	MW-18	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.014	Normal LCL
28_1_4_121	MW-18	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-04-22	0.57	Nonparametric LCL around the Median
28_1_4_122	MW-18	Appendix IV	Selenium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.00070	Adjusted Gamma LCL
28_1_4_125	MW-18	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-22	0.000075	Nonparametric LCL around the Median
28_1_5_111	MW-18	Part 115	Copper	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.00043	Nonparametric LCL around the Median
28_1_5_114	MW-18	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	5.3	Normal LCL
28_1_5_119	MW-18	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.0057	Adjusted Gamma LCL
28_1_5_123	MW-18	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-22	0.000050	Nonparametric LCL around the Median
28_1_5_128	MW-18	Part 115	Vanadium	mg/L	19	17	89%	2022-11-30 to 2026-04-22	0.00062	Nonparametric LCL around the Median
28_1_5_129	MW-18	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.050	Adjusted Gamma LCL
29_1_3_105	MW-19	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-23	1.9	Normal LCL
29_1_3_107	MW-19	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	430	Normal LCL
29_1_3_108	MW-19	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	34	Normal LCL
29_1_3_112	MW-19	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-23	1.7	Normal LCL
29_1_3_120	MW-19	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-23	6.8	Normal LCL
29_1_3_124	MW-19	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	890	Normal LCL
29_1_3_126	MW-19	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-23	1700	Normal LCL
29_1_4_101	MW-19	Appendix IV	Antimony	mg/L	19	13	68%	2022-11-30 to 2026-04-23	0.00010	Nonparametric LCL around the Median
29_1_4_102	MW-19	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-23	0.0036	Normal LCL
29_1_4_103	MW-19	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	0.036	Normal LCL
29_1_4_104	MW-19	Appendix IV	Beryllium	mg/L	19	3	16%	2022-11-30 to 2026-04-23	0.000070	Normal MLE LCL
29_1_4_106	MW-19	Appendix IV	Cadmium	mg/L	19	17	89%	2022-11-30 to 2026-04-23	0.000075	Nonparametric LCL around the Median
29_1_4_109	MW-19	Appendix IV	Chromium, Total	mg/L	19	6	32%	2022-11-30 to 2026-04-23	0.00021	Gamma MLE Normal Approx. LCL
29_1_4_110	MW-19	Appendix IV	Cobalt	mg/L	19	1	5%	2022-11-30 to 2026-04-23	0.00042	Normal MLE LCL
29_1_4_113	MW-19	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-23	1.7	Normal LCL
29_1_4_115	MW-19	Appendix IV	Lead	mg/L	19	19	100%	2022-11-30 to 2026-04-23	0.00010	Nonparametric LCL around the Median
29_1_4_116	MW-19	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-23	0.084	Normal LCL
29_1_4_117	MW-19	Appendix IV	Mercury	ng/L	19	17	89%	2022-11-30 to 2026-04-23	160	Nonparametric LCL around the Median
29_1_4_118	MW-19	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-23	0.0099	Normal LCL
29_1_4_121	MW-19	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	2022-11-30 to 2026-04-23	0.47	Normal MLE LCL
29_1_4_122	MW-19	Appendix IV	Selenium	mg/L	19	11	58%	2022-11-30 to 2026-04-23	0.00010	Nonparametric LCL around the Median
29_1_4_125	MW-19	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-23	0.000075	Nonparametric LCL around the Median
29_1_5_111	MW-19	Part 115	Copper	mg/L	19	15	79%	2022-11-30 to 2026-04-23	0.00020	Nonparametric LCL around the Median
29_1_5_114	MW-19	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-23	14	Normal LCL
29_1_5_119	MW-19	Part 115	Nickel	mg/L	19	1	5%	2022-11-30 to 2026-04-23	0.0026	Lognormal MLE Likelihood Profile LCL
29_1_5_123	MW-19	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-23	0.000050	Nonparametric LCL around the Median
29_1_5_128	MW-19	Part 115	Vanadium	mg/L	19	14	74%	2022-11-30 to 2026-04-23	0.00062	Nonparametric LCL around the Median
29_1_5_129	MW-19	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-23	0.0012	Nonparametric LCL around the Median
30_1_3_105	MW-20	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.91	Normal LCL
30_1_3_107	MW-20	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	120	Normal LCL
30_1_3_108	MW-20	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	46	Normal LCL

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
30_1_3_112	MW-20	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.23	Adjusted Gamma LCL
30_1_3_120	MW-20	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-22	7.3	Normal LCL
30_1_3_124	MW-20	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	46	Normal LCL
30_1_3_126	MW-20	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-22	590	Normal LCL
30_1_4_101	MW-20	Appendix IV	Antimony	mg/L	19	8	42%	2022-11-30 to 2026-04-22	0.000080	Lognormal MLE Likelihood Profile LCL
30_1_4_102	MW-20	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.0013	Normal LCL
30_1_4_103	MW-20	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.44	Adjusted Gamma LCL
30_1_4_104	MW-20	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-30 to 2026-04-22	0.000052	Nonparametric LCL around the Median
30_1_4_106	MW-20	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-30 to 2026-04-22	0.000075	Nonparametric LCL around the Median
30_1_4_109	MW-20	Appendix IV	Chromium, Total	mg/L	19	10	53%	2022-11-30 to 2026-04-22	0.00020	Nonparametric LCL around the Median
30_1_4_110	MW-20	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.0011	Normal LCL
30_1_4_113	MW-20	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.23	Adjusted Gamma LCL
30_1_4_115	MW-20	Appendix IV	Lead	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.0016	Nonparametric LCL around the Median
30_1_4_116	MW-20	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.050	Normal LCL
30_1_4_117	MW-20	Appendix IV	Mercury	ng/L	19	14	74%	2022-11-30 to 2026-04-22	160	Nonparametric LCL around the Median
30_1_4_118	MW-20	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.0039	Normal LCL
30_1_4_121	MW-20	Appendix IV	Radium 226 and 228	pCi/L	18	9	50%	2022-11-30 to 2026-04-22	0.57	Nonparametric LCL around the Median
30_1_4_122	MW-20	Appendix IV	Selenium	mg/L	19	11	58%	2022-11-30 to 2026-04-22	0.00010	Nonparametric LCL around the Median
30_1_4_125	MW-20	Appendix IV	Thallium	mg/L	19	18	95%	2022-11-30 to 2026-04-22	0.000075	Nonparametric LCL around the Median
30_1_5_111	MW-20	Part 115	Copper	mg/L	19	2	11%	2022-11-30 to 2026-04-22	0.00035	Lognormal MLE Likelihood Profile LCL
30_1_5_114	MW-20	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-22	16	Normal LCL
30_1_5_119	MW-20	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.0077	Nonparametric LCL around the Median
30_1_5_123	MW-20	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-22	0.000050	Nonparametric LCL around the Median
30_1_5_128	MW-20	Part 115	Vanadium	mg/L	19	19	100%	2022-11-30 to 2026-04-22	0.00062	Nonparametric LCL around the Median
30_1_5_129	MW-20	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-22	0.030	Adjusted Gamma LCL
38_1_3_105	MW-28	Appendix III	Boron	mg/L	9	0	0%	2024-04-07 to 2026-04-23	1.8	Adjusted Gamma LCL
38_1_3_107	MW-28	Appendix III	Calcium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	150	Normal LCL
38_1_3_108	MW-28	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-07 to 2026-04-23	68	Normal LCL
38_1_3_112	MW-28	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.80	Normal LCL
38_1_3_120	MW-28	Appendix III	pH (field)	su	9	0	0%	2024-04-07 to 2026-04-23	6.8	Normal LCL
38_1_3_124	MW-28	Appendix III	Sulfate (as SO4)	mg/L	9	2	22%	2024-04-07 to 2026-04-23	2.7	Gamma MLE Normal Approx. LCL
38_1_3_126	MW-28	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-07 to 2026-04-23	650	Normal LCL
38_1_4_101	MW-28	Appendix IV	Antimony	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.00033	Adjusted Gamma LCL
38_1_4_102	MW-28	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.0012	Normal LCL
38_1_4_103	MW-28	Appendix IV	Barium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.32	Nonparametric LCL around the Median
38_1_4_104	MW-28	Appendix IV	Beryllium	mg/L	9	9	100%	2024-04-07 to 2026-04-23	0.000052	Nonparametric LCL around the Median
38_1_4_106	MW-28	Appendix IV	Cadmium	mg/L	9	5	56%	2024-04-07 to 2026-04-23	0.000075	Nonparametric LCL around the Median
38_1_4_109	MW-28	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.0065	Normal LCL
38_1_4_110	MW-28	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.00079	Normal LCL
38_1_4_113	MW-28	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.80	Normal LCL
38_1_4_115	MW-28	Appendix IV	Lead	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.0021	Adjusted Gamma LCL
38_1_4_116	MW-28	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.047	Adjusted Gamma LCL
38_1_4_117	MW-28	Appendix IV	Mercury	ng/L	9	3	33%	2024-04-07 to 2026-04-23	6.8	Gamma MLE Normal Approx. LCL
38_1_4_118	MW-28	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.0016	Normal LCL
38_1_4_121	MW-28	Appendix IV	Radium 226 and 228	pCi/L	8	2	25%	2024-04-07 to 2026-04-23	0.74	Lognormal MLE Likelihood Profile LCL
38_1_4_122	MW-28	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.00026	Nonparametric LCL around the Median
38_1_4_125	MW-28	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-07 to 2026-04-23	0.000075	Nonparametric LCL around the Median
38_1_5_111	MW-28	Part 115	Copper	mg/L	9	1	11%	2024-04-07 to 2026-04-23	0.00073	Gamma MLE Normal Approx. LCL
38_1_5_114	MW-28	Part 115	Iron	mg/L	9	0	0%	2024-04-07 to 2026-04-23	21	Normal LCL
38_1_5_119	MW-28	Part 115	Nickel	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.0022	Adjusted Gamma LCL
38_1_5_123	MW-28	Part 115	Silver	mg/L	9	9	100%	2024-04-07 to 2026-04-23	0.000050	Nonparametric LCL around the Median
38_1_5_128	MW-28	Part 115	Vanadium	mg/L	9	2	22%	2024-04-07 to 2026-04-23	0.00055	Normal MLE LCL
38_1_5_129	MW-28	Part 115	Zinc	mg/L	9	0	0%	2024-04-07 to 2026-04-23	0.037	Adjusted Gamma LCL
40_1_3_105	MW-30	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	1.7	Adjusted Gamma LCL
40_1_3_107	MW-30	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	440	Nonparametric LCL around the Median
40_1_3_108	MW-30	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	110	Nonparametric LCL around the Median
40_1_3_112	MW-30	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-21	1.0	Nonparametric LCL around the Median
40_1_3_120	MW-30	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	7.0	Normal LCL
40_1_3_124	MW-30	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	820	Nonparametric LCL around the Median
40_1_3_126	MW-30	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	2200	Nonparametric LCL around the Median
40_1_4_101	MW-30	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-30 to 2026-04-21	0.00010	Nonparametric LCL around the Median
40_1_4_102	MW-30	Appendix IV	Arsenic	mg/L	19	2	11%	2022-11-30 to 2026-04-21	0.00068	Gamma MLE Normal Approx. LCL
40_1_4_103	MW-30	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.061	Normal LCL
40_1_4_104	MW-30	Appendix IV	Beryllium	mg/L	19	15	79%	2022-11-30 to 2026-04-21	0.000052	Nonparametric LCL around the Median
40_1_4_106	MW-30	Appendix IV	Cadmium	mg/L	19	18	95%	2022-11-30 to 2026-04-21	0.000075	Nonparametric LCL around the Median
40_1_4_109	MW-30	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.0073	Normal LCL
40_1_4_110	MW-30	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.00077	Nonparametric LCL around the Median
40_1_4_113	MW-30	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	1.0	Nonparametric LCL around the Median
40_1_4_115	MW-30	Appendix IV	Lead	mg/L	19	17	89%	2022-11-30 to 2026-04-21	0.00050	Nonparametric LCL around the Median
40_1_4_116	MW-30	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.12	Adjusted Gamma LCL
40_1_4_117	MW-30	Appendix IV	Mercury	ng/L	19	17	89%	2022-11-30 to 2026-04-21	160	Nonparametric LCL around the Median
40_1_4_118	MW-30	Appendix IV	Molybdenum	mg/L	19	3	16%	2022-11-30 to 2026-04-21	0.00082	Nonparametric LCL around the Median
40_1_4_121	MW-30	Appendix IV	Radium 226 and 228	pCi/L	19	10	53%	2022-11-30 to 2026-04-21	0.59	Nonparametric LCL around the Median
40_1_4_122	MW-30	Appendix IV	Selenium	mg/L	19	7	37%	2022-11-30 to 2026-04-21	0.00015	Lognormal MLE Likelihood Profile LCL
40_1_4_125	MW-30	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.000075	Nonparametric LCL around the Median
40_1_5_111	MW-30	Part 115	Copper	mg/L	19	13	68%	2022-11-30 to 2026-04-21	0.00020	Nonparametric LCL around the Median
40_1_5_114	MW-30	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	2.8	Adjusted Gamma LCL
40_1_5_119	MW-30	Part 115	Nickel	mg/L	19	3	16%	2022-11-30 to 2026-04-21	0.0013	Nonparametric LCL around the Median
40_1_5_123	MW-30	Part 115	Silver	mg/L	19	18	95%	2022-11-30 to 2026-04-21	0.000050	Nonparametric LCL around the Median
40_1_5_128	MW-30	Part 115	Vanadium	mg/L	19	16	84%	2022-11-30 to 2026-04-21	0.00062	Nonparametric LCL around the Median
40_1_5_129	MW-30	Part 115	Zinc	mg/L	19	10	53%	2022-11-30 to 2026-04-21	0.0012	Nonparametric LCL around the Median
41_1_3_105	MW-31	Appendix III	Boron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	4.6	Normal LCL
41_1_3_107	MW-31	Appendix III	Calcium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	160	Nonparametric LCL around the Median
41_1_3_108	MW-31	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	100	Nonparametric LCL around the Median
41_1_3_112	MW-31	Appendix III	Fluoride	mg/L	19	0	0%	2022-12-01 to 2026-04-21	4.5	Nonparametric LCL around the Median

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
41_1_3_120	MW-31	Appendix III	pH (field)	su	19	0	0%	2022-12-01 to 2026-04-21	7.7	Normal LCL
41_1_3_124	MW-31	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	140	Adjusted Gamma LCL
41_1_3_126	MW-31	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-12-01 to 2026-04-21	770	Nonparametric LCL around the Median
41_1_4_101	MW-31	Appendix IV	Antimony	mg/L	19	7	37%	2022-12-01 to 2026-04-21	0.0001*	Nonparametric LCL around the Median
41_1_4_102	MW-31	Appendix IV	Arsenic	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.0012	Nonparametric LCL around the Median
41_1_4_103	MW-31	Appendix IV	Barium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.16	Normal LCL
41_1_4_104	MW-31	Appendix IV	Beryllium	mg/L	19	16	84%	2022-12-01 to 2026-04-21	0.000052	Nonparametric LCL around the Median
41_1_4_106	MW-31	Appendix IV	Cadmium	mg/L	19	18	95%	2022-12-01 to 2026-04-21	0.000075	Nonparametric LCL around the Median
41_1_4_109	MW-31	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.0024	Adjusted Gamma LCL
41_1_4_110	MW-31	Appendix IV	Cobalt	mg/L	19	3	16%	2022-12-01 to 2026-04-21	0.00015	Nonparametric LCL around the Median
41_1_4_113	MW-31	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-12-01 to 2026-04-21	4.5	Nonparametric LCL around the Median
41_1_4_115	MW-31	Appendix IV	Lead	mg/L	19	14	74%	2022-12-01 to 2026-04-21	0.00010	Nonparametric LCL around the Median
41_1_4_116	MW-31	Appendix IV	Lithium	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.048	Normal LCL
41_1_4_117	MW-31	Appendix IV	Mercury	ng/L	19	14	74%	2022-12-01 to 2026-04-21	160	Nonparametric LCL around the Median
41_1_4_118	MW-31	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.0011	Nonparametric LCL around the Median
41_1_4_121	MW-31	Appendix IV	Radium 226 and 228	pCi/L	19	8	42%	2022-12-01 to 2026-04-21	0.55	Gamma MLE Normal Approx. LCL
41_1_4_122	MW-31	Appendix IV	Selenium	mg/L	19	6	32%	2022-12-01 to 2026-04-21	0.00013	Nonparametric LCL around the Median
41_1_4_125	MW-31	Appendix IV	Thallium	mg/L	19	18	95%	2022-12-01 to 2026-04-21	0.000075	Nonparametric LCL around the Median
41_1_5_111	MW-31	Part 115	Copper	mg/L	19	10	53%	2022-12-01 to 2026-04-21	0.00020	Nonparametric LCL around the Median
41_1_5_114	MW-31	Part 115	Iron	mg/L	19	0	0%	2022-12-01 to 2026-04-21	0.76	Adjusted Gamma LCL
41_1_5_119	MW-31	Part 115	Nickel	mg/L	19	10	53%	2022-12-01 to 2026-04-21	0.00065	Nonparametric LCL around the Median
41_1_5_123	MW-31	Part 115	Silver	mg/L	19	19	100%	2022-12-01 to 2026-04-21	0.000050	Nonparametric LCL around the Median
41_1_5_128	MW-31	Part 115	Vanadium	mg/L	19	12	63%	2022-12-01 to 2026-04-21	0.00062	Nonparametric LCL around the Median
41_1_5_129	MW-31	Part 115	Zinc	mg/L	19	9	47%	2022-12-01 to 2026-04-21	0.0018	Gamma MLE Normal Approx. LCL
42_1_3_105	MW-32	Appendix III	Boron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	3.0	Nonparametric LCL around the Median
42_1_3_107	MW-32	Appendix III	Calcium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	170	Normal LCL
42_1_3_108	MW-32	Appendix III	Chloride (as Cl)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	43	Normal LCL
42_1_3_112	MW-32	Appendix III	Fluoride	mg/L	19	0	0%	2022-11-30 to 2026-04-21	1.4	Normal LCL
42_1_3_120	MW-32	Appendix III	pH (field)	su	19	0	0%	2022-11-30 to 2026-04-21	7.6	Normal LCL
42_1_3_124	MW-32	Appendix III	Sulfate (as SO4)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	63	Adjusted Gamma LCL
42_1_3_126	MW-32	Appendix III	Total Dissolved Solids	mg/L	19	0	0%	2022-11-30 to 2026-04-21	660	Normal LCL
42_1_4_101	MW-32	Appendix IV	Antimony	mg/L	19	15	79%	2022-11-30 to 2026-04-21	0.00010	Nonparametric LCL around the Median
42_1_4_102	MW-32	Appendix IV	Arsenic	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.00045	Nonparametric LCL around the Median
42_1_4_103	MW-32	Appendix IV	Barium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.48	Normal LCL
42_1_4_104	MW-32	Appendix IV	Beryllium	mg/L	19	18	95%	2022-11-30 to 2026-04-21	0.000052	Nonparametric LCL around the Median
42_1_4_106	MW-32	Appendix IV	Cadmium	mg/L	19	16	84%	2022-11-30 to 2026-04-21	0.000075	Nonparametric LCL around the Median
42_1_4_109	MW-32	Appendix IV	Chromium, Total	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.00035	Nonparametric LCL around the Median
42_1_4_110	MW-32	Appendix IV	Cobalt	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.00036	Nonparametric LCL around the Median
42_1_4_113	MW-32	Appendix IV	Fluoride (App IV)	mg/L	19	0	0%	2022-11-30 to 2026-04-21	1.4	Normal LCL
42_1_4_115	MW-32	Appendix IV	Lead	mg/L	19	14	74%	2022-11-30 to 2026-04-21	0.00010	Nonparametric LCL around the Median
42_1_4_116	MW-32	Appendix IV	Lithium	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.12	Normal LCL
42_1_4_117	MW-32	Appendix IV	Mercury	ng/L	19	15	79%	2022-11-30 to 2026-04-21	160	Nonparametric LCL around the Median
42_1_4_118	MW-32	Appendix IV	Molybdenum	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.0031	Normal LCL
42_1_4_121	MW-32	Appendix IV	Radium 226 and 228	pCi/L	19	9	47%	2022-11-30 to 2026-04-21	0.47	Normal MLE LCL
42_1_4_122	MW-32	Appendix IV	Selenium	mg/L	19	15	79%	2022-11-30 to 2026-04-21	0.00010	Nonparametric LCL around the Median
42_1_4_125	MW-32	Appendix IV	Thallium	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.000075	Nonparametric LCL around the Median
42_1_5_111	MW-32	Part 115	Copper	mg/L	19	11	58%	2022-11-30 to 2026-04-21	0.00020	Nonparametric LCL around the Median
42_1_5_114	MW-32	Part 115	Iron	mg/L	19	0	0%	2022-11-30 to 2026-04-21	15	Normal LCL
42_1_5_119	MW-32	Part 115	Nickel	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.00088	Nonparametric LCL around the Median
42_1_5_123	MW-32	Part 115	Silver	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.000050	Nonparametric LCL around the Median
42_1_5_128	MW-32	Part 115	Vanadium	mg/L	19	19	100%	2022-11-30 to 2026-04-21	0.00062	Nonparametric LCL around the Median
42_1_5_129	MW-32	Part 115	Zinc	mg/L	19	0	0%	2022-11-30 to 2026-04-21	0.0026	Nonparametric LCL around the Median
46_1_3_105	MW-36	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.32	Normal LCL
46_1_3_107	MW-36	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	63	Normal LCL
46_1_3_108	MW-36	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	27	Normal LCL
46_1_3_112	MW-36	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.62	Normal LCL
46_1_3_120	MW-36	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	8.5	Normal LCL
46_1_3_124	MW-36	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	8.3	Adjusted Gamma LCL
46_1_3_126	MW-36	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	390	Normal LCL
46_1_4_101	MW-36	Appendix IV	Antimony	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00089	Lognormal H-LCL
46_1_4_102	MW-36	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.011	Lognormal H-LCL
46_1_4_103	MW-36	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.17	Normal LCL
46_1_4_104	MW-36	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21	0.000052	Nonparametric LCL around the Median
46_1_4_106	MW-36	Appendix IV	Cadmium	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.000096	Normal MLE LCL
46_1_4_109	MW-36	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0011	Normal LCL
46_1_4_110	MW-36	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00018	Lognormal H-LCL
46_1_4_113	MW-36	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.62	Normal LCL
46_1_4_115	MW-36	Appendix IV	Lead	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0087	Normal LCL
46_1_4_116	MW-36	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0073	Normal LCL
46_1_4_117	MW-36	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	5.0	Normal MLE LCL
46_1_4_118	MW-36	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.022	Normal LCL
46_1_4_121	MW-36	Appendix IV	Radium 226 and 228	pCi/L	8	7	88%	2024-04-08 to 2026-04-21	0.86	Nonparametric LCL around the Median
46_1_4_122	MW-36	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00054	Normal LCL
46_1_4_125	MW-36	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-21	0.000075	Nonparametric LCL around the Median
46_1_5_111	MW-36	Part 115	Copper	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0032	Normal LCL
46_1_5_114	MW-36	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.47	Normal LCL
46_1_5_119	MW-36	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0047	Normal LCL
46_1_5_123	MW-36	Part 115	Silver	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.000040	Normal MLE LCL
46_1_5_128	MW-36	Part 115	Vanadium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0028	Normal LCL
46_1_5_129	MW-36	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0080	Normal LCL
47_1_3_105	MW-37	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	2.7	Normal LCL
47_1_3_107	MW-37	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	130	Normal LCL
47_1_3_108	MW-37	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	12	Normal LCL
47_1_3_112	MW-37	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.46	Normal LCL
47_1_3_120	MW-37	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	7.2	Normal LCL

ID	Well	Constituent Type	Constituent	Unit	n	No. NDs	% NDs	Date Range	LCL	Method
47_1_3_124	MW-37	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	160	Normal LCL
47_1_3_126	MW-37	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	650	Normal LCL
47_1_4_101	MW-37	Appendix IV	Antimony	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.000095	Normal MLE LCL
47_1_4_102	MW-37	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00054	Normal LCL
47_1_4_103	MW-37	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.048	Normal LCL
47_1_4_104	MW-37	Appendix IV	Beryllium	mg/L	9	8	89%	2024-04-08 to 2026-04-21	0.000052	Nonparametric LCL around the Median
47_1_4_106	MW-37	Appendix IV	Cadmium	mg/L	9	5	56%	2024-04-08 to 2026-04-21	0.000075	Nonparametric LCL around the Median
47_1_4_109	MW-37	Appendix IV	Chromium, Total	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00033	Adjusted Gamma LCL
47_1_4_110	MW-37	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00039	Normal LCL
47_1_4_113	MW-37	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.46	Normal LCL
47_1_4_115	MW-37	Appendix IV	Lead	mg/L	9	2	22%	2024-04-08 to 2026-04-21	0.00010	Nonparametric LCL around the Median
47_1_4_116	MW-37	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.012	Normal LCL
47_1_4_117	MW-37	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	1.1	Normal MLE LCL
47_1_4_118	MW-37	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0083	Normal LCL
47_1_4_121	MW-37	Appendix IV	Radium 226 and 228	pCi/L	9	5	56%	2024-04-08 to 2026-04-21	0.57	Nonparametric LCL around the Median
47_1_4_122	MW-37	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0014	Adjusted Gamma LCL
47_1_4_125	MW-37	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-21	0.000075	Nonparametric LCL around the Median
47_1_5_111	MW-37	Part 115	Copper	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0087	Adjusted Gamma LCL
47_1_5_114	MW-37	Part 115	Iron	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.21	Gamma MLE Normal Approx. LCL
47_1_5_119	MW-37	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0026	Normal LCL
47_1_5_123	MW-37	Part 115	Silver	mg/L	9	8	89%	2024-04-08 to 2026-04-21	0.000050	Nonparametric LCL around the Median
47_1_5_128	MW-37	Part 115	Vanadium	mg/L	9	5	56%	2024-04-08 to 2026-04-21	0.00030	Nonparametric LCL around the Median
47_1_5_129	MW-37	Part 115	Zinc	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.013	Normal LCL
48_2_3_105	MW-38	Appendix III	Boron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.79	Adjusted Gamma LCL
48_2_3_107	MW-38	Appendix III	Calcium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	74	Nonparametric LCL around the Median
48_2_3_108	MW-38	Appendix III	Chloride (as Cl)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	22	Normal LCL
48_2_3_112	MW-38	Appendix III	Fluoride	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.70	Normal LCL
48_2_3_120	MW-38	Appendix III	pH (field)	su	9	0	0%	2024-04-08 to 2026-04-21	8.7	Adjusted Gamma LCL
48_2_3_124	MW-38	Appendix III	Sulfate (as SO4)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	110	Normal LCL
48_2_3_126	MW-38	Appendix III	Total Dissolved Solids	mg/L	9	0	0%	2024-04-08 to 2026-04-21	490	Normal LCL
48_2_4_101	MW-38	Appendix IV	Antimony	mg/L	9	2	22%	2024-04-08 to 2026-04-21	0.00034	Normal MLE LCL
48_2_4_102	MW-38	Appendix IV	Arsenic	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0026	Normal LCL
48_2_4_103	MW-38	Appendix IV	Barium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.088	Adjusted Gamma LCL
48_2_4_104	MW-38	Appendix IV	Beryllium	mg/L	9	6	67%	2024-04-08 to 2026-04-21	0.000052	Nonparametric LCL around the Median
48_2_4_106	MW-38	Appendix IV	Cadmium	mg/L	9	4	44%	2024-04-08 to 2026-04-21	0.000075*	Nonparametric LCL around the Median
48_2_4_109	MW-38	Appendix IV	Chromium, Total	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.0034	Normal MLE LCL
48_2_4_110	MW-38	Appendix IV	Cobalt	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00046	Adjusted Gamma LCL
48_2_4_113	MW-38	Appendix IV	Fluoride (App IV)	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.70	Normal LCL
48_2_4_115	MW-38	Appendix IV	Lead	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.0065	Gamma MLE Normal Approx. LCL
48_2_4_116	MW-38	Appendix IV	Lithium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.082	Normal LCL
48_2_4_117	MW-38	Appendix IV	Mercury	ng/L	9	4	44%	2024-04-08 to 2026-04-21	13	Normal MLE LCL
48_2_4_118	MW-38	Appendix IV	Molybdenum	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0071	Normal LCL
48_2_4_121	MW-38	Appendix IV	Radium 226 and 228	pCi/L	8	5	62%	2024-04-08 to 2026-04-21	0.92	Nonparametric LCL around the Median
48_2_4_122	MW-38	Appendix IV	Selenium	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.00054	Normal LCL
48_2_4_125	MW-38	Appendix IV	Thallium	mg/L	9	9	100%	2024-04-08 to 2026-04-21	0.000075	Nonparametric LCL around the Median
48_2_5_111	MW-38	Part 115	Copper	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.0031	Gamma MLE Normal Approx. LCL
48_2_5_114	MW-38	Part 115	Iron	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.40	Adjusted Gamma LCL
48_2_5_119	MW-38	Part 115	Nickel	mg/L	9	0	0%	2024-04-08 to 2026-04-21	0.0043	Adjusted Gamma LCL
48_2_5_123	MW-38	Part 115	Silver	mg/L	9	6	67%	2024-04-08 to 2026-04-21	0.000050	Nonparametric LCL around the Median
48_2_5_128	MW-38	Part 115	Vanadium	mg/L	9	2	22%	2024-04-08 to 2026-04-21	0.0025	Normal MLE LCL
48_2_5_129	MW-38	Part 115	Zinc	mg/L	9	1	11%	2024-04-08 to 2026-04-21	0.0048	Normal MLE LCL

* While one or more parametric distributions fit the data, nonparametric methods were used due to nonconvergence of the parametric estimator or negative parametric LCL