Annual Groundwater Monitoring and Corrective Action Report

Indiana Michigan Power Company

Rockport Plant

Bottom Ash Pond CCR Management Units

Rockport, Indiana

January 31, 2024

Prepared by:
American Electric Power Service Corporation
1 Riverside Plaza
Columbus, Ohio 43215

INDIANA MICHIGAN POWER℠

An AEP Company

Table of Contents

I Overview 1

II. Groundwater Monitoring Well Locations and Identification Numbers 3

III. Monitoring Wells Installed or Decommissioned 3

IV. Groundwater Quality Data and Static Water Elevation Data, With Flow Rates and Flow Directions 3

V. Groundwater Quality Data Statistical Analysis 3

VI. Alternate Source Demonstrations 4

VII. Discussion About Transition Between Monitoring Requirements or Alternate Monitoring Frequency 4

VIII. Other Information Required 5

IX. Description of Any Problems Encountered and Actions Taken 5

X. A Projection of Key Activities for the Upcoming Year 5

Appendix 1: Groundwater Data Tables and Figures

Appendix 2: Statistical Analyses

Appendix 3: Alternative Source Demonstrations

Appendix 4: Notices for Monitoring Program Transitions

Appendix 5: Well Installation/Decommissioning Logs

Abbreviations:
ASD - Alternate Source Demonstration
CCR – Coal Combustion Residual
GWPS - Groundwater protection standards
SSI - Statistically Significant Increase
SSL - Statistically Significant Level

I Overview

This *Annual Groundwater Monitoring and Corrective Action Report* (Report) has been prepared to report the status of activities for the preceding year at the bottom ash pond (BAP) CCR unit at Indiana Michigan Power Company's (I&M) Rockport Plant. The Indiana Michigan Power Company is wholly owned subsidiary of American Electric Power Company (AEP). The USEPA's CCR rules require that the Annual Groundwater Monitoring and Corrective Action Report covering the previous year's groundwater monitoring activities be posted to the operating record no later than January 31, 2024.

In general, the following activities were completed:

- At the start of the current annual reporting period, the BAP was operating under the assessment monitoring program.
- At the end of the current annual reporting period, the BAP was operating under the assessment monitoring program.
- The BAP initiated assessment monitoring on April 15, 2018.
- Data and statistical analysis not available for the previous reporting period indicates that during the November 2022 semi-annual sampling event:
    - The following Appendix III parameters exceeded background concentrations:
        - Boron at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
        - Chloride at wells MW-1602D, MW-1603S, MW-1604S, and MW-1605S
        - Fluoride at wells MW-1002, MW-1603S, and MW-1604S
        - pH at wells MW-1603D, MW-1606D, and MW-1606S
        - Sulfate at wells MW-1002, MW-1603I, MW-1603S, MW-1604I, MW-1604S, MW-1605I, and MW-1605S
        - TDS at wells MW-1002, MW-1603I, MW-1603S, MW-1604S, MW-1605I, and MW-1605S
    - There were no exceedances of Appendix IV parameters
- During the May 2023 semi-annual sampling event:
    - The following Appendix III parameters exceeded background concentrations:
        - Boron at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
        - Calcium at well MW-1602I
        - Chloride at wells MW-1602D, MW-1604S, and MW-1605S
        - Fluoride at wells MW-1002, MW-1603S, and MW-1604S
        - pH at wells MW-1603I, MW-1603S, MW-1605I, and MW-1605S

        - Sulfate at wells MW-1002, MW-1602I, MW-1603S, MW-1604I, MW-1604S, MW-1605I, and MW-1605S
        - TDS at wells MW-1002, MW-1602D, MW-1602I, MW-1603I, MW-1603S, MW-1604S, MW-1605I, and MW-1605S
    - There were no exceedances of Appendix IV parameters
- The November 2023 semi-annual sampling event data are still undergoing statistical analysis.
- Because either there were no Appendix IV SSLs or because an alternate source for the Appendix IV SSL(s) was identified, but no alternative source for the Appendix III SSI(s) was identified, the BAP remained in assessment monitoring.

The major components of this annual report, to the extent applicable at this time, are presented in sections that follow:

- A map/aerial photograph showing the BAP CCR management units, all CCR groundwater monitoring wells, and monitoring well identification numbers (Attached as **Appendix 1**);
- All of the monitoring data collected, including the rate and direction of groundwater flow, plus a summary showing the number of samples collected per monitoring well, the dates the samples were collected, and whether the sample was collected as part of background, detection monitoring, or assessment monitoring programs (Attached as **Appendix 1**);
- Statistical comparison of monitoring data to determine if there have been significant increase over background concentrations (Attached as **Appendix 2**, where applicable);
- A discussion of whether any alternate source demonstrations were performed, and the conclusions (Attached as **Appendix 3**, where applicable);
- A summary of any transition between monitoring programs, or an alternate monitoring frequency, for example the date and circumstances for transitioning from detection monitoring to assessment monitoring, in addition to identifying the constituents detected at a statistically significant increase over background concentrations (Notices Attached as **Appendix 4**, where applicable);
- Identification of any monitoring wells that were installed, or decommissioned during the preceding year, along with a statement as to why that happened (Attached as **Appendix 5**, where applicable); and
- Other information required to be included in the annual report such as alternate source demonstration or assessment of corrective measures, if applicable.

In addition, this report summarizes key actions completed, and where applicable, describes any problems encountered and actions taken to resolve those problems. The report includes a projection of key activities for the upcoming year.

II. Groundwater Monitoring Well Locations and Identification Numbers

The CCR monitoring wells are listed as follows (S=shallow, I=intermediate, and D=deep):

- Twelve Upgradient Wells: MW-1600(S, I, D); MW-1601(S, I, D); MW-1701(S, I, D); and MW-1702(S, I, D).
- Fifteen Downgradient Wells: MW-1002, MW-1602(I, D); MW-1603(S, I, D); MW-1604(S, I, D); MW-1605(S, I, D); and MW-1606(S, I, D).

Rather than separate groundwater monitoring systems for the East and West bottom ash ponds, the groundwater network monitors both of the bottom ash ponds as a single unit as allowed by 40 CFR 257.91(d). A figure that depicts the PE-certified groundwater monitoring network, the monitoring well locations, and their corresponding identification numbers is provided in **Appendix 1**.

III. Monitoring Wells Installed or Decommissioned

There were no new groundwater monitoring wells installed or decommissioned during 2023. The network design, as summarized in the *Groundwater Monitoring Network Design Report* (2019) and as posted at the CCR website for Rockport Plant's Bottom Ash Ponds, did not change. That design report, viewable on the AEP CCR web site, discusses the facility location, the hydrogeological setting, the hydrostratigraphic units, the uppermost aquifer, downgradient monitoring well locations and the upgradient monitoring well locations.

IV. Groundwater Quality Data and Static Water Elevation Data, With Flow Rates and Flow Directions

Appendix 1 contains tables showing the groundwater quality data collected during the establishment of background quality, detection and assessment monitoring. Static water elevation data from each monitoring event also are shown in **Appendix 1**, along with the groundwater velocity calculations, groundwater flow direction and potentiometric maps developed after each sampling event.

The sampling event conducted in February 2023 satisfies the requirement of 257.95(b).

V. Groundwater Quality Data Statistical Analysis

Appendix 2 contains the statistical analysis reports. **Appendix 2** also contains a memorandum that explains the reissuance of select analytical laboratory reports to correct laboratory equipment data quality assurance/quality control issues. Data not available from the previous reporting period indicates that during the second semi-annual sampling event of 2022:

- The following Appendix III parameters exceeded background concentrations:
  - Boron at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
  - Chloride at wells MW-1602D, MW-1603S, MW-1604S, and MW-1605S
  - Fluoride at wells MW-1002, MW-1603S, and MW-1604S
  - pH at wells MW-1603D, MW-1606D, and MW-1606S

        - Sulfate at wells MW-1002, MW-1603I, MW-1603S, MW-1604I, MW-1604S, MW-1605I, and MW-1605S
        - TDS at wells MW-1002, MW-1603I, MW-1603S, MW-1604S, MW-1605I, and MW-1605S
    - There were no exceedances of Appendix IV parameters
- During the May 2023 semi-annual sampling event:
    - The following Appendix III parameters exceeded background concentrations:
        - Boron at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
        - Calcium at well MW-1602I
        - Chloride at wells MW-1602D, MW-1604S, and MW-1605S
        - Fluoride at wells MW-1002, MW-1603S, and MW-1604S
        - pH at wells MW-1603I, MW-1603S, MW-1605I, and MW-1605S
        - Sulfate at wells MW-1002, MW-1602I, MW-1603S, MW-1604I, MW-1604S, MW-1605I, and MW-1605S
        - TDS at wells MW-1002, MW-1602D, MW-1602I, MW-1603I, MW-1603S, MW-1604S, MW-1605I, and MW-1605S
    - There were no exceedances of Appendix IV parameters

The statistical analysis of the second semi-annual sampling event will be completed within 90 days of finishing the sampling and analysis, which took place in November 2023.

VI. Alternate Source Demonstrations

An alternate source demonstration (ASD) investigation relative to past Appendix III SSIs was completed in April 2018. That demonstration concluded that the groundwater quality and Appendix III indicator parameter SSIs identified in the statistical evaluations were potentially influenced by a release from the BAP to the groundwater. An alternate source could not be identified. Therefore, an alternate source demonstration investigation was not undertaken for the exceedances of Appendix III parameters for neither the second semi-annual event of 2022, nor the first semi-annual event of 2023.

Because either there were no SSLs or because an alternate source for the SSL(s) was identified, but no alternate source for the SSI(s) was identified, the BAP remained in assessment monitoring.

VII. Discussion About Transition Between Monitoring Requirements or Alternate Monitoring Frequency

Because an alternate source for the Appendix III SSIs could not be identified, an assessment monitoring program was established at Rockport's BAP complex on April 15, 2018. Assessment monitoring continued through the 2023 calendar year.

The BAP will remain in assessment monitoring unless all Appendix III and IV parameters are below background values for two consecutive monitoring events (return to detection monitoring) as prescribed by 40 CFR 257.95(e). If an Appendix IV parameter exceeds its respective GWPS due to a release from the BAP, an assessment of corrective measures will be undertaken as required by 40 CFR 257.96.

Regarding defining an alternate monitoring frequency, the groundwater velocity and monitoring well production are high enough at this facility that no modification to the semiannual assessment monitoring frequency is needed.

VIII. Other Information Required

The BAP progressed from detection monitoring to its current status in assessment monitoring in 2018. As required by the CCR assessment monitoring rules in 40 CFR 257.95 (b) and (d)(1), sampling all CCR wells for the required Appendix III and IV parameters was completed in 2023.

IX. Description of Any Problems Encountered and Actions Taken

No significant problems were encountered. The low flow sampling effort went smoothly, and the schedule was met to support the annual groundwater report preparation covering the year 2023 groundwater monitoring activities.

X. A Projection of Key Activities for the Upcoming Year

Key activities for 2024 include:

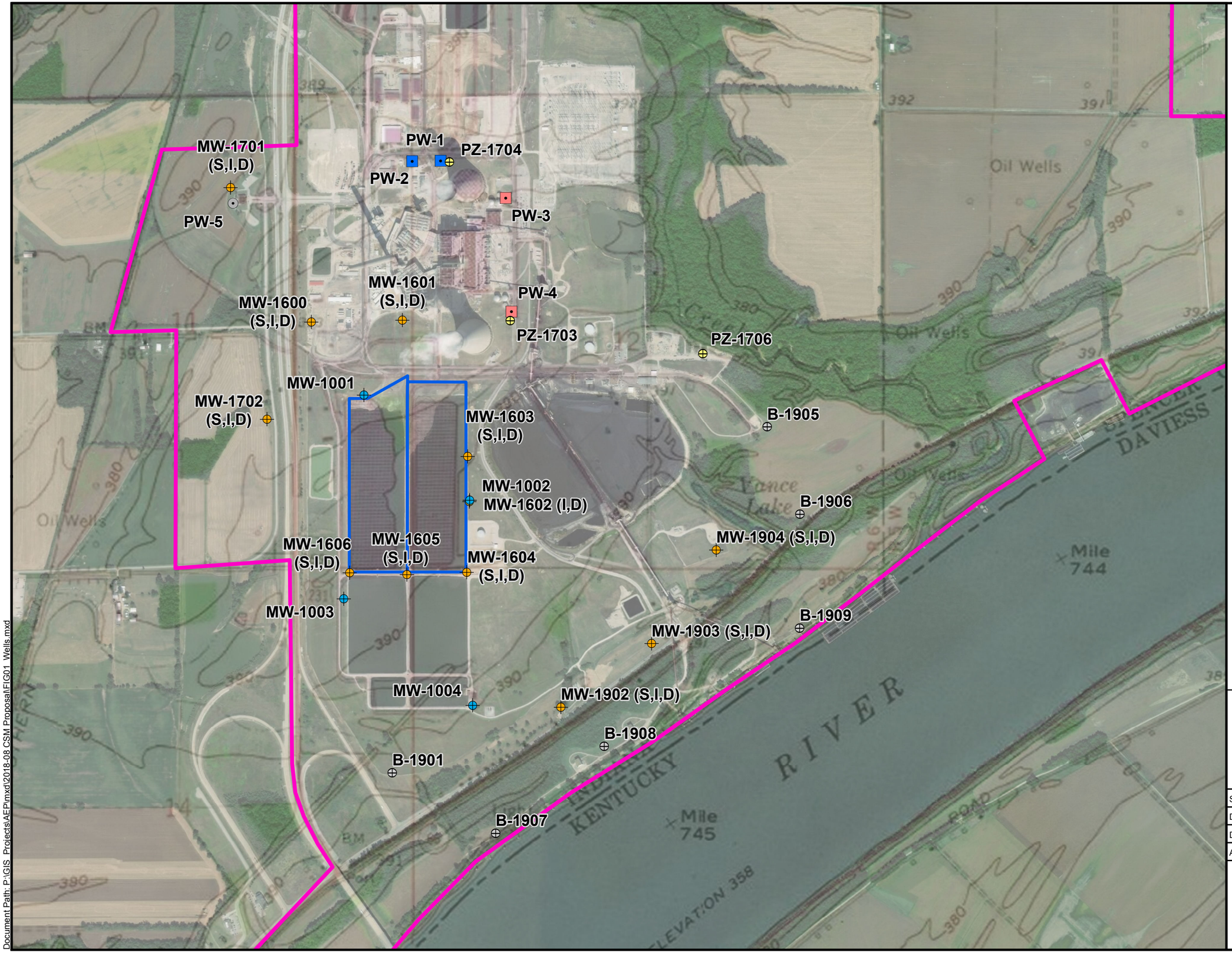
- Complete the statistical analysis of the second semi-annual sampling event that took place in November 2023.
- Conduct the annual groundwater sampling event for all constituents listed in Appendix III and IV as required by 40 CFR 257.95(b).
- Perform statistical analysis on the sampling results for the Appendix III and detected Appendix IV parameters as required by 40 CFR 257.95(d)(1).
- Determine applicable GWPSs for the Appendix IV parameters and compare the results of Appendix IV concentrations in downgradient wells to the GWPSs.
- If no GWPSs are exceeded, the BAP will remain in assessment monitoring.
- If a GWPS is exceeded in a downgradient well the following activities will be undertaken:
    - Characterize the nature and extent of a release by installing additional GW wells as necessary, estimate the quantity of material released and the concentrations of Appendix IV parameters that are in the material, and sample all wells to characterize the nature and extent of the release.
    - If contaminants have migrated off-site, notify all persons who own land that directly overlies any part of the plume of contamination.

    - Perform an alternate source demonstration (ASD) investigating whether the exceedance was caused by a source other than the BAP or was a result of an error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.
    - If a successful ASD cannot be made, initiate an assessment of corrective measures and follow all of those requirements.
- Respond to any new data received in light of what the CCR rule requires.
- Prepare the next annual groundwater report.

APPENDIX 1 – Groundwater Data Tables and Figures

Figures and Tables follow, showing the groundwater monitoring network, data collected and the rate and direction of groundwater flow. The dates that the samples were collected, and it also is shown whether the data were collected under background, detection, or assessment monitoring.

Groundwater Monitoring Network Figure



Document Path: P:\GIS Projects\AEP\mxd\2018-08 CSM Proposal\FIG01 Wells.mxd

Legend

- Piezometer
- BAP - USWAG Monitoring Well
- BAP - CCR Monitoring Well
- Landfill - Monitoring Well
- Landfill - CCR Monitoring Well
- Landfill - Augmentation Water Supply Well
- Landfill - Dust Control Water Supply Well
- Plant - Potable Water Supply Well
- Plant - Fire Water Supply Well
- Groundwater Screening Location (Abandoned)
- Inactive Water Supply Well
- Property Boundary
- Bottom Ash Ponds (BAP)

Data Sources

Date of Photography: 2016
Source of Photography: U.S. Department of Agriculture, National Agriculture Imagery Program (NAIP)

USGS Rockport and Lewisport (IN/KY) Topographic Quadrangle Maps

0 500 1,000
SCALE IN FEET

WELL LOCATIONS

AEP - ROCKPORT, IN

PROJECT NUMBER: 7362182624

SCALE	1" = 1,600'
DATE	2/6/2019
DRAWN BY	TMR
APPROVED BY	ALD

FIG. 1

wood.
2456 Fortune Drive, Suite 100
Lexington, Kentucky 40509
Phone: (859) 255-3308

Groundwater Data Tables

Table 1. Groundwater Data Summary: MW-1002
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	1.77	33.2	58.9	1.05	7.0	149	390
7/18/2016	Background	1.70	32.3	57.8	1.03	7.1	154	385
9/20/2016	Background	1.57	40.1	54.0	0.98	6.8	164	399
11/15/2016	Background	1.67	49.4	53.0	0.87	6.5	178	405
1/9/2017	Background	1.57	55.6	59.0	0.74	6.3	190	440
3/7/2017	Background	1.32	76.3	81.1	0.73	6.5	228	503
5/8/2017	Background	1.04	78.1	75.5	0.73	6.7	215	498
7/17/2017	Background	1.28	50.0	59.9	0.73	6.7	184	430
10/3/2017	Detection	1.63	36.4	54.4	0.80	7.1	166	403
12/12/2017	Detection	--	--	52.5	0.97	7.3	177	--
1/11/2018	Detection	1.71	--	53.2	0.91	7.0	183	--
6/5/2018	Assessment	1.66	40.8	51.4	1.02	8.1	165	425
8/15/2018	Assessment	1.88	41.3	57.4	1.02	7.2	182	453
5/24/2019	Assessment	1.61	32.9	55.9	1.13	7.4	169	435
6/27/2019	Assessment	1.82	36.0	57.1	1.10	7.1	173	425
9/12/2019	Assessment	1.78	33.5	54.7	1.03	6.7	178	418
3/11/2020	Assessment	--	--	--	0.84	6.5	--	--
5/20/2020	Assessment	0.778	42.0	35.9	0.85	5.9	97.5	295
11/16/2020	Assessment	1.43	66.7	99.4	0.84	6.2	217	551
2/2/2021	Assessment	1.56	63.3	81.7	0.97	6.8	250	560
5/26/2021	Assessment	1.11	37.3	50.1	1.01	7.1	149	370
11/9/2021	Assessment	1.70	42.2	59.4	0.96	6.8	169	450
2/15/2022	Assessment	1.81	52.2	66.9	0.95	7.4	176	490
5/10/2022	Assessment	1.74	47.4	61.3	0.96	7.4	173	470 L1
10/31/2022	Assessment	2.46	58.4	40.9	0.93	5.6	323	650
2/8/2023	Assessment	1.63	62.4	32.1	1.08	7.9	194	560
5/31/2023	Assessment	1.63	49.8	30.1	1.21	7.3	205	560
11/1/2023	Assessment	1.72	51.5	31.6	1.38	6.8	214	570

Table 1. Groundwater Data Summary: MW-1002
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.05	0.32	12.3	< 0.005 U1	0.02	0.3	0.830	0.1116	1.05	0.034	0.002	< 0.002 U1	1.92	0.08 J1	0.02 J1
7/18/2016	Background	0.05	0.29	14.2	< 0.005 U1	0.03	0.7	0.931	0.741	1.03	0.026	0.016	< 0.002 U1	2.54	0.1 J1	0.03 J1
9/20/2016	Background	0.04 J1	0.24	18.5	< 0.005 U1	0.03	0.1	0.699	1.377	0.98	0.01 J1	0.004	< 0.002 U1	3.38	0.1 J1	0.02 J1
11/15/2016	Background	0.06	0.24	23.5	0.006 J1	0.15	0.075	0.664	0.686	0.87	0.031	0.010	< 0.002 U1	2.47	0.08 J1	0.04 J1
1/9/2017	Background	0.05 J1	0.25	26.9	< 0.005 U1	0.04	0.078	0.692	1.052	0.74	0.022	0.006	< 0.002 U1	3.16	0.06 J1	0.03 J1
3/7/2017	Background	0.05	0.20	35.6	< 0.005 U1	0.07	0.331	0.568	0.483	0.73	0.163	0.003	< 0.002 U1	2.69	0.1 J1	0.04 J1
5/8/2017	Background	0.05	0.24	26.8	0.020	0.05	0.177	0.526	0.2337	0.73	0.037	0.009	0.005	2.69	0.1	0.050
7/17/2017	Background	0.04 J1	0.21	21.4	< 0.004 U1	0.03	0.107	0.665	3.029	0.73	0.02 J1	0.009	< 0.002 U1	3.05	0.07 J1	0.04 J1
6/5/2018	Assessment	0.07	0.44	12.7	0.004	0.03	0.04	0.768	0.569	1.02	0.031	0.011	< 0.002 U1	6.19	0.06	0.03
8/15/2018	Assessment	0.05 J1	0.28	13.8	< 0.004 U1	0.03	0.281	0.820	--	1.02	0.02 J1	< 0.0002 U1	--	7.86	0.07 J1	0.03 J1
5/24/2019	Assessment	0.05 J1	0.23	13.3	< 0.02 U1	0.03 J1	0.09 J1	0.754	0.1886	1.13	< 0.02 U1	< 0.009 U1	< 0.002 U1	8.67	0.05 J1	< 0.1 U1
6/27/2019	Assessment	0.05 J1	0.24	14.8	< 0.02 U1	0.03 J1	0.07 J1	0.805	0.682	1.10	0.03 J1	< 0.009 U1	< 0.002 U1	10.4	0.08 J1	< 0.1 U1
9/12/2019	Assessment	0.05 J1	0.22	15.8	< 0.02 U1	0.02 J1	0.469	0.635	0.384	1.03	< 0.05 U1	0.00438	< 0.002 U1	10.2	0.06 J1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	0.21	15.9	< 0.02 U1	0.02 J1	< 0.04 U1	0.608	1.9572	0.84	< 0.05 U1	0.00425	< 0.002 U1	8.51	0.1 J1	< 0.1 U1
5/20/2020	Assessment	0.04 J1	0.19	16.0	< 0.02 U1	0.04 J1	0.09 J1	0.342	0.999	0.85	< 0.05 U1	0.00316	< 0.002 U1	9.65	0.07 J1	< 0.1 U1
11/16/2020	Assessment	0.04 J1	0.25	17.9	< 0.02 U1	0.02 J1	0.212	0.480	1.892	0.84	< 0.05 U1	0.00562	< 0.002 U1	4.95	0.09 J1	< 0.1 U1
2/2/2021	Assessment	0.05 J1	0.27	15.9	< 0.02 U1	0.02 J1	0.05 J1	0.533	0.22	0.97	< 0.05 U1	0.00548	< 0.002 U1	6.42	0.07 J1	< 0.1 U1
5/26/2021	Assessment	0.04 J1	0.25	12.4	< 0.007 U1	0.019 J1	0.21	0.308	0.75	1.01	< 0.05 U1	0.00379	< 0.002 U1	5.3	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.04 J1	0.26	12.5	< 0.007 U1	0.020	0.20	0.500	3.01	0.96	< 0.05 U1	0.00502	< 0.002 U1	6.7	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.04 J1	0.27	13.9	< 0.007 U1	0.020	0.33	0.531	0.43	0.95	< 0.05 U1	0.00554	< 0.002 U1	7.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.04 J1	0.27	14.0	< 0.007 U1	0.019 J1	0.24	0.537	1.25	0.96	< 0.05 U1	0.00538	< 0.002 U1	7.1	< 0.09 U1	< 0.04 U1
10/31/2022	Assessment	0.04 J1	0.23	18.2	< 0.007 U1	0.028	0.16 J1	0.777	0.51	0.93	< 0.05 U1	0.00571	< 0.002 U1	12.6	< 0.09 U1	< 0.04 U1
2/8/2023	Assessment	0.05 J1	0.23	18.0	0.007 J1	0.023	0.27	0.482	1.02	1.08	< 0.05 U1	0.00653	< 0.002 U1	18.0	0.70	< 0.04 U1
5/31/2023	Assessment	0.051 J1	0.27	15.3	< 0.007 U1	0.028	0.26 J1	0.576	0.59	1.21	0.06 J1	0.00482	< 0.002 U1	21.5	0.12 J1	< 0.02 U1
11/1/2023	Assessment	0.053 J1	0.27	13.6	< 0.007 U1	0.022	0.33	0.686	0.49	1.38	0.06 J1	0.00521	< 0.002 U1	17.1	0.06 J1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1600D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/8/2016	Background	0.016	83.5	31.5	0.20	7.6	43.9	444
7/19/2016	Background	0.015	74.9	32.2	0.22	7.2	44.9	413
9/19/2016	Background	< 0.002 U1	85.6	30.9	0.20	7.1	38.7	385
11/16/2016	Background	0.024	83.1	30.9	0.17	7.2	35.9	415
1/10/2017	Background	0.014	87.8	31.0	0.22	7.1	42.5	384
3/7/2017	Background	0.036	84.9	31.6	0.19	7.0	39.2	374
5/8/2017	Background	0.037	89.1	32.6	0.21	6.5	38.4	402
7/17/2017	Background	0.038	73.6	31.6	0.17	6.5	40.1	389
10/3/2017	Detection	0.040	78.3	31.5	0.20	7.3	40.8	398
12/12/2017	Detection	--	--	31.5	0.2	7.1	42.5	--
6/4/2018	Assessment	0.079	83.5	32.8	0.23	7.3	39.2	397
8/14/2018	Assessment	0.085	86.6	31.5	0.24	7.1	41.0	400
5/20/2019	Assessment	< 0.02 U1	76.5	31.4	0.21	7.2	43.0	394
6/25/2019	Assessment	0.03 J1	84.2	31.0	0.22	7.1	37.7	407
9/10/2019	Assessment	< 0.02 U1	90.1	31.1	0.23	7.2	41.3	404
3/11/2020	Assessment	--	--	--	0.21	6.9	--	--
5/21/2020	Assessment	< 0.02 U1	91.1	31.0	0.24	7.6	43.3	396
11/12/2020	Assessment	< 0.02 U1	81.5	30.3	0.25	6.6	42.4	398
2/3/2021	Assessment	< 0.02 U1	78.9	30.2	0.25	6.8	41.3	390
5/27/2021	Assessment	0.017 J1	93.2	29.6	0.25	7.6	41.6	400
11/10/2021	Assessment	0.016 J1	79.3	28.7	0.23	6.6	40.0	380
2/16/2022	Assessment	0.019 J1	82.2	30.5	0.23	6.7	42.7	400
5/10/2022	Assessment	0.016 J1	94.0	30.0	0.22	7.0	44.6	390 L1
11/1/2022	Assessment	0.017 J1	77.2	29.4	0.22	6.5	43.3	370
2/7/2023	Assessment	0.017 J1	78.4	29.0	0.21	7.6	42.4	380
5/31/2023	Assessment	0.016 J1	74.8	28.5	0.20	7.0	42.2	390
10/31/2023	Assessment	0.019 J1	86.0	28.5	0.23	6.6	43.1	390

Table 1. Groundwater Data Summary: MW-1600D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/8/2016	Background	0.01 J1	15.4	940	0.006 J1	< 0.004 U1	0.2	0.109	2.148	0.20	0.095	< 0.0002 U1	< 0.002 U1	1.94	< 0.03 U1	0.01 J1
7/19/2016	Background	0.02 J1	17.2	946	0.005 J1	< 0.004 U1	0.2	0.094	1.615	0.22	0.021	0.020	< 0.002 U1	2.19	0.05 J1	0.054
9/19/2016	Background	0.01 J1	15.1	910	< 0.005 U1	< 0.004 U1	0.9	0.071	1.636	0.20	0.020	0.011	< 0.002 U1	1.75	< 0.03 U1	0.01 J1
11/16/2016	Background	< 0.01 U1	15.8	997	< 0.005 U1	< 0.004 U1	0.128	0.085	1.402	0.17	0.064	0.008	< 0.002 U1	1.79	0.04 J1	< 0.01 U1
1/10/2017	Background	< 0.01 U1	15.2	877	< 0.005 U1	< 0.004 U1	0.115	0.100	2.265	0.22	0.053	0.009	< 0.002 U1	1.65	< 0.03 U1	< 0.01 U1
3/7/2017	Background	< 0.01 U1	16.2	986	< 0.005 U1	< 0.004 U1	0.427	0.081	1.322	0.19	0.038	0.008	< 0.002 U1	1.78	0.05 J1	< 0.01 U1
5/8/2017	Background	0.05	15.9	914	0.020	0.02	0.170	0.096	1.104	0.21	0.073	0.006	0.005	1.64	0.1	0.050
7/17/2017	Background	0.03 J1	15.0	817	0.004 J1	< 0.005 U1	0.180	0.112	2.223	0.17	0.076	0.009	< 0.002 U1	1.56	0.04 J1	< 0.01 U1
6/4/2018	Assessment	0.02 J1	13.8	766	0.01 J1	0.02 J1	0.112	0.297	0.833	0.23	0.102	0.009	< 0.002 U1	1.62	< 0.03 U1	0.02 J1
8/14/2018	Assessment	< 0.01 U1	15.1	840	< 0.004 U1	< 0.005 U1	0.073	0.079	2.858	0.24	0.023	0.004	--	1.62	< 0.03 U1	< 0.01 U1
5/20/2019	Assessment	< 0.02 U1	20.3	873	< 0.02 U1	0.08	0.274	0.176	1.948	0.21	0.238	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	16.6	867	< 0.02 U1	< 0.01 U1	0.1 J1	0.146	1.121	0.22	0.135	0.01 J1	< 0.002 U1	2 J1	0.05 J1	< 0.1 U1
9/10/2019	Assessment	< 0.02 U1	16.1	884	< 0.02 U1	< 0.01 U1	0.2 J1	0.132	1.621	0.23	0.1 J1	0.00627	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	15.3	880	< 0.02 U1	< 0.01 U1	0.2 J1	0.081	2.377	0.21	< 0.05 U1	0.00573	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	25.3	882	< 0.02 U1	< 0.01 U1	0.1 J1	0.090	1.462	0.24	0.06 J1	0.00535	< 0.002 U1	2 J1	0.06 J1	< 0.1 U1
11/12/2020	Assessment	< 0.02 U1	15.8	828	< 0.02 U1	< 0.01 U1	0.2 J1	0.072	1.593	0.25	< 0.05 U1	0.00570	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	16.0	869	< 0.02 U1	< 0.01 U1	0.264	0.070	2.96	0.25	< 0.05 U1	0.00548	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/27/2021	Assessment	0.05 J1	19.2	851	0.067	0.043	2.05	0.756	1.18	0.25	1.34	0.00669	< 0.002 U1	1.9	0.17 J1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	17.8	788	< 0.007 U1	< 0.004 U1	0.27	0.092	1.21	0.23	0.07 J1	0.00545	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	< 0.02 U1	16.2	843	< 0.007 U1	< 0.004 U1	0.38	0.062	1.40	0.23	< 0.05 U1	0.00528	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.04 J1	18.7	889	< 0.007 U1	0.028	0.33	0.096	1.32	0.22	0.06 J1	0.00509	< 0.002 U1	1.8	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	16.0	782	< 0.007 U1	< 0.004 U1	0.24	0.044	1.82	0.22	< 0.05 U1	0.00543	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
2/7/2023	Assessment	< 0.02 U1	16.8	810	0.008 J1	< 0.004 U1	0.35	0.076	1.74	0.21	< 0.05 U1	0.00570	< 0.002 U1	3.5	< 0.09 U1	< 0.04 U1
5/31/2023	Assessment	< 0.008 U1	15.3	774	< 0.007 U1	< 0.004 U1	0.27 J1	0.081	2.20	0.20	0.05 J1	0.00498	< 0.002 U1	2.1	< 0.04 U1	< 0.02 U1
10/31/2023	Assessment	0.009 J1	16.7	1,200	< 0.007 U1	< 0.004 U1	0.35	0.066	2.06	0.23	< 0.05 U1	0.00529	< 0.002 U1	1.9	< 0.04 U1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1600I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/8/2016	Background	0.019	79.2	33.5	0.23	--	52.2	442
7/19/2016	Background	0.019	76.0	26.7	0.23	7.3	55.3	423
9/19/2016	Background	0.004 J1	77.6	24.9	0.21	7.2	48.4	404
11/16/2016	Background	0.031	76.0	24.5	0.17	7.2	44.5	408
1/10/2017	Background	0.016	76.5	23.7	0.19	7.1	45.8	394
3/7/2017	Background	0.049	75.5	26.4	0.20	7.2	49.2	392
5/8/2017	Background	0.033	80.2	25.0	0.22	6.8	48.5	406
7/17/2017	Background	0.046	71.5	24.4	0.17	9.3	48.0	398
10/3/2017	Detection	0.051	71.1	24.4	0.21	7.3	50.7	400
12/12/2017	Detection	--	--	24.7	0.21	7.2	52.4	--
6/4/2018	Assessment	0.046	72.8	25.4	0.24	7.5	50	396
8/14/2018	Assessment	0.057	78.6	25.6	0.25	7.1	50.3	426
5/21/2019	Assessment	0.03 J1	71.0	25.4	0.22	7.3	52.8	411
6/25/2019	Assessment	0.02 J1	76.0	25.0	0.23	7.1	46.7	401
9/10/2019	Assessment	0.02 J1	81.1	25.6	0.24	7.2	50.8	404
3/11/2020	Assessment	--	--	--	0.22	6.9	--	--
5/21/2020	Assessment	0.02 J1	82.5	25.7	0.25	7.1	51.8	406
11/12/2020	Assessment	< 0.02 U1	72.7	24.6	0.26	6.7	49.9	392
2/3/2021	Assessment	< 0.02 U1	72.9	25.1	0.26	6.7	49.8	397
5/27/2021	Assessment	0.04 J1	73.2	25.4	0.26	7.7	50.4	410
11/10/2021	Assessment	0.019 J1	70.0	25.7	0.24	7.2	49.0	380
2/17/2022	Assessment	0.019 J1	78.6	26.6	0.24	7.0	52.9	420 P2
5/10/2022	Assessment	0.021 J1	88.3 M1, P3	27.2	0.23	6.8	54.6	410 L1
11/1/2022	Assessment	0.021 J1	72.9	25.8	0.24	6.3	52.2	410
2/7/2023	Assessment	0.021 J1	72.0	25.4	0.24	7.5	51.3	410
5/31/2023	Assessment	0.011 J1	65.5	24.4	0.22	7.3	50.6	430
10/31/2023	Assessment	0.022 J1	71.5	24.9	0.24	6.6	50.9	420

Table 1. Groundwater Data Summary: MW-1600I
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/8/2016	Background	0.05 J1	15.9	832	< 0.005 U1	0.005 J1	0.4	1.27	7.25	0.23	0.107	0.003	< 0.002 U1	1.68	< 0.03 U1	0.02 J1
7/19/2016	Background	0.03 J1	17.9	805	< 0.005 U1	< 0.004 U1	0.3	1.38	1.902	0.23	0.099	0.010	< 0.002 U1	1.83	0.03 J1	< 0.01 U1
9/19/2016	Background	0.03 J1	16.0	778	< 0.005 U1	0.01 J1	0.2	1.13	1.55	0.21	0.037	0.010	< 0.002 U1	1.89	0.06 J1	0.065
11/16/2016	Background	0.03 J1	16.3	801	< 0.005 U1	0.01 J1	0.081	1.14	2.47	0.17	0.01 J1	0.013	< 0.002 U1	1.63	< 0.03 U1	0.02 J1
1/10/2017	Background	0.02 J1	16.7	736	< 0.005 U1	< 0.004 U1	0.158	1.20	0.9137	0.19	0.006 J1	0.005	< 0.002 U1	1.64	< 0.03 U1	0.02 J1
3/7/2017	Background	0.02 J1	16.8	696	< 0.005 U1	0.02 J1	0.270	1.13	1.624	0.20	0.054	0.005	< 0.002 U1	1.67	0.04 J1	0.03 J1
5/8/2017	Background	0.05	17.0	762	0.020	0.02	0.095	1.26	1.75	0.22	0.020	0.011	0.005	1.54	0.1	0.050
7/17/2017	Background	0.02 J1	16.8	710	< 0.004 U1	< 0.005 U1	0.397	1.27	2.009	0.17	0.108	0.010	< 0.002 U1	1.53	< 0.03 U1	0.02 J1
6/4/2018	Assessment	0.04 J1	20.6	820	< 0.004 U1	< 0.005 U1	0.061	1.48	2.59	0.24	0.02 J1	0.012	< 0.002 U1	1.98	< 0.03 U1	0.03 J1
8/14/2018	Assessment	0.02 J1	17.5	726	< 0.004 U1	< 0.005 U1	0.087	1.29	1.797	0.25	0.025	0.007	--	1.64	< 0.03 U1	0.03 J1
5/21/2019	Assessment	< 0.02 U1	17.7	737	< 0.02 U1	< 0.01 U1	0.1 J1	1.24	1.988	0.22	< 0.02 U1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	17.2	740	< 0.02 U1	< 0.01 U1	< 0.04 U1	1.23	2.301	0.23	< 0.02 U1	0.009 J1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
9/10/2019	Assessment	< 0.02 U1	16.9	722	< 0.02 U1	< 0.01 U1	0.1 J1	1.29	1.22	0.24	< 0.05 U1	0.00720	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	16.8	715	< 0.02 U1	0.01 J1	0.2 J1	1.22	2.22	0.22	0.1 J1	0.00677	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	0.03 J1	17.9	707	< 0.02 U1	0.08	0.205	1.32	2.9	0.25	0.201	0.00643	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
11/12/2020	Assessment	< 0.02 U1	18.9	698	< 0.02 U1	< 0.01 U1	0.216	1.26	1.734	0.26	< 0.05 U1	0.00656	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	18.4	689	< 0.02 U1	< 0.01 U1	0.1 J1	1.20	2.599	0.26	< 0.05 U1	0.00626	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/27/2021	Assessment	0.08 J1	24.8	755	0.031 J1	0.075	1.21	2.32	1.81	0.26	1.3	0.00672	< 0.002 U1	2.2	0.15 J1	0.05 J1
11/10/2021	Assessment	0.02 J1	19.6	658	< 0.007 U1	0.005 J1	0.23	1.14	2.41	0.24	0.08 J1	0.00643	< 0.002 U1	1.5	< 0.09 U1	< 0.04 U1
2/17/2022	Assessment	0.02 J1	20.2	770	< 0.007 U1	0.013 J1	0.11 J1	1.17	3.18	0.24	0.07 J1	0.00645	< 0.002 U1	1.6	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.02 J1	19.5	729 M1, P3	< 0.007 U1	< 0.004 U1	0.25	1.22	2.13	0.23	< 0.05 U1	0.00603	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	0.04 J1	22.0	679	< 0.007 U1	0.008 J1	0.33	1.25	1.40	0.24	0.20	0.00690	< 0.002 U1	1.6	< 0.09 U1	< 0.04 U1
2/7/2023	Assessment	0.02 J1	17.8	662	< 0.007 U1	< 0.004 U1	0.26	1.18	2.73	0.24	0.06 J1	0.00707	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
5/31/2023	Assessment	0.030 J1	18.0	593	< 0.007 U1	< 0.004 U1	0.21 J1	1.09	1.84	0.22	0.12 J1	0.00573	< 0.002 U1	1.6	< 0.04 U1	< 0.02 U1
10/31/2023	Assessment	0.155	57.4	1,010 M1	0.011 J1	0.026	0.38	1.50	2.65	0.24	0.70	0.00636	< 0.002 U1	1.7	0.12 J1	0.03 J1

Table 1. Groundwater Data Summary: MW-1600S
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/8/2016	Background	0.045	69.8	32.0	0.33	6.6	75.8	491
7/19/2016	Background	0.045	67.0	29.9	0.34	6.8	76.0	448
9/19/2016	Background	0.026	63.2	21.3	0.32	6.4	60.8	408
11/16/2016	Background	0.061	63.5	27.1	0.28	6.8	54.4	426
1/10/2017	Background	0.034	68.5	23.7	0.32	6.5	53.1	433
3/7/2017	Background	0.129	63.2	25.0	0.37	6.8	58.5	402
5/8/2017	Background	0.039	69.0	26.0	0.40	6.6	54.6	427
7/17/2017	Background	0.068	58.0	18.0	0.36	9.5	41.0	393
10/3/2017	Detection	0.049	61.4	27.8	0.37	6.8	54.9	430
12/13/2017	Detection	--	--	36.1	0.36	6.7	68	--
6/4/2018	Assessment	0.076	60.9	36.5	0.56	7.3	41.3	412
8/15/2018	Assessment	0.088	63.7	44.9	0.51	7.0	42.3	416
5/21/2019	Assessment	0.05 J1	57.4	27.9	0.44	6.9	57.4	423
6/25/2019	Assessment	0.05 J1	62.7	21.4	0.47	6.8	40.9	398
9/10/2019	Assessment	0.04 J1	64.8	23.9	0.46	6.9	45.0	383
3/11/2020	Assessment	--	--	--	0.42	6.5	--	--
5/21/2020	Assessment	0.04 J1	66.6	30.7	0.45	7.2	53.8	412
11/12/2020	Assessment	0.04 J1	59.6	24.6	0.40	6.5	60.4	397
2/3/2021	Assessment	0.04 J1	60.3	26.7	0.44	6.1	52.0	379
5/27/2021	Assessment	0.041 J1	70.2	32.6	0.51	7.3	40.4	420
11/10/2021	Assessment	0.038 J1	56.4	43.0	0.42	6.3	42.7	380
2/17/2022	Assessment	0.038 J1	61.7	35.8	0.46	6.4	43.3	380 P2
5/10/2022	Assessment	0.025 J1	63.5	27.0	0.55	6.7	39.6	380 L1
11/1/2022	Assessment	0.043 J1	57.2	35.7	0.37	6.7	53.3	380
2/7/2023	Assessment	0.037 J1	53.6	22.4	0.54	7.1	34.1	370
6/1/2023	Assessment	0.027 J1	51.3	30.8	0.54	5.3	41.6	390
10/31/2023	Assessment	0.040 J1	56.2	27.7	0.53	6.3	34.4	380

Table 1. Groundwater Data Summary: MW-1600S
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/8/2016	Background	0.02 J1	0.67	36.1	< 0.005 U1	0.02 J1	0.2	0.243	0.149	0.33	0.118	0.003	0.002 J1	0.61	0.5	< 0.01 U1
7/19/2016	Background	0.02 J1	0.67	37.9	< 0.005 U1	0.02 J1	0.4	0.099	0.52826	0.34	0.048	0.038	< 0.002 U1	0.56	0.3	0.01 J1
9/19/2016	Background	0.02 J1	0.58	30.9	< 0.005 U1	0.01 J1	0.2	0.129	0.0715	0.32	0.087	0.019	< 0.002 U1	0.56	0.3	0.02 J1
11/16/2016	Background	0.04 J1	0.75	32.9	0.008 J1	0.03	0.284	0.690	0.505	0.28	0.360	0.024	< 0.002 U1	0.64	0.4	0.04 J1
1/10/2017	Background	0.02 J1	0.65	29.3	0.006 J1	0.01 J1	0.892	0.306	1.8182	0.32	0.151	0.016	< 0.002 U1	0.60	0.4	0.01 J1
3/7/2017	Background	0.03 J1	0.70	30.5	0.008 J1	0.02 J1	0.459	0.587	1.697	0.37	0.319	0.013	< 0.002 U1	0.66	0.5	0.01 J1
5/8/2017	Background	0.05	0.65	26.9	0.020	0.02	0.163	0.398	0.305	0.40	0.195	0.019	0.005	0.56	0.5	0.050
7/17/2017	Background	0.02 J1	0.61	26.1	0.006 J1	0.02 J1	0.302	0.441	0.117	0.36	0.233	0.019	< 0.002 U1	0.74	0.5	0.02 J1
6/4/2018	Assessment	0.03 J1	0.49	22.7	0.005 J1	0.01 J1	0.109	0.128	1.573	0.56	0.069	0.019	< 0.002 U1	0.72	0.5	0.02 J1
8/15/2018	Assessment	0.02 J1	0.45	23.7	< 0.004 U1	0.01 J1	0.277	0.105	0.646	0.51	0.053	0.014	--	0.65	0.4	0.02 J1
5/21/2019	Assessment	0.03 J1	0.50	26.7	< 0.02 U1	0.01 J1	1.34	0.127	0.6234	0.44	0.07 J1	0.01 J1	< 0.002 U1	0.7 J1	0.6	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	0.48	22.0	< 0.02 U1	0.01 J1	0.08 J1	0.193	0.528	0.47	0.09 J1	0.03 J1	< 0.002 U1	0.5 J1	0.4	< 0.1 U1
9/10/2019	Assessment	< 0.02 U1	0.46	21.9	< 0.02 U1	0.01 J1	0.2 J1	0.149	0.2093	0.46	0.08 J1	0.0126	< 0.002 U1	0.6 J1	0.5	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	0.40	22.1	< 0.02 U1	< 0.01 U1	0.1 J1	0.04 J1	0.2165	0.42	< 0.05 U1	0.0126	< 0.002 U1	0.5 J1	0.4	< 0.1 U1
5/21/2020	Assessment	0.02 J1	0.40	23.2	< 0.02 U1	0.09	0.2 J1	0.05 J1	0.662	0.45	< 0.05 U1	0.0135	< 0.002 U1	0.4 J1	0.4	< 0.1 U1
11/12/2020	Assessment	0.04 J1	0.40	23.2	< 0.02 U1	0.01 J1	0.342	0.03 J1	0.9926	0.40	< 0.05 U1	0.0144	< 0.002 U1	< 0.4 U1	0.7	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	0.41	22.9	< 0.02 U1	< 0.01 U1	0.319	0.05 J1	1.11	0.44	< 0.05 U1	0.0130	< 0.002 U1	0.5 J1	0.3	< 0.1 U1
5/27/2021	Assessment	0.15	4.39	57.9	0.106	0.191	1.92	9.95	0.88	0.51	4.97	0.0111	0.004 J1	0.9	0.73	0.05 J1
11/10/2021	Assessment	0.03 J1	0.66	26.8	0.014 J1	0.041	0.51	1.12	0.45	0.42	0.63	0.0123	< 0.002 U1	0.2 J1	0.41 J1	< 0.04 U1
2/17/2022	Assessment	< 0.02 U1	0.39	21.0	< 0.007 U1	0.011 J1	0.32	0.074	1.27	0.46	< 0.05 U1	0.0116	< 0.002 U1	0.6	0.51	< 0.04 U1
5/10/2022	Assessment	0.02 J1	0.43	19.5	< 0.007 U1	0.011 J1	0.28	0.122	2.69	0.55	0.06 J1	0.0106	< 0.002 U1	0.7	0.63	< 0.04 U1
11/1/2022	Assessment	0.03 J1	0.35	22.9	< 0.007 U1	0.014 J1	0.26	0.030	0.72	0.37	< 0.05 U1	0.0154	< 0.002 U1	0.4 J1	1.13	< 0.04 U1
2/7/2023	Assessment	0.02 J1	0.38	18.1	< 0.007 U1	0.011 J1	0.35	0.119	1.17	0.54	0.06 J1	0.0115	< 0.002 U1	0.6	0.50	< 0.04 U1
6/1/2023	Assessment	0.017 J1	0.31	18.3	< 0.007 U1	0.006 J1	0.27 J1	0.062	0.42	0.54	< 0.05 U1	0.0104	< 0.002 U1	0.5	0.52	< 0.02 U1
10/31/2023	Assessment	0.025 J1	0.41	20.6	< 0.007 U1	0.012 J1	0.43	0.106	0.89	0.53	0.05 J1	0.0101	< 0.002 U1	0.7	0.74	0.04 J1

Table 1. Groundwater Data Summary: MW-1601D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/27/2016	Background	0.038	79.7	21.8	0.22	7.5	21.9	460
7/19/2016	Background	0.035	89.0	18.9	0.22	7.4	18.9	412
9/20/2016	Background	0.026	87.0	22.6	0.17	7.2	20.4	410
11/16/2016	Background	0.035	89.5	21.8	0.15	7.4	18.0	413
1/10/2017	Background	0.029	90.7	19.5	0.19	6.8	20.3	407
3/7/2017	Background	0.055	85.2	28.7	0.17	7.1	25.4	392
5/9/2017	Background	0.038	90.8	22.5	0.17	6.7	21.3	399
7/17/2017	Background	0.090	77.7	21.3	0.17	6.8	21.4	393
10/4/2017	Detection	0.044	86.8	17.9	0.16	7.3	18.8	390
12/12/2017	Detection	--	--	18.8	0.16	7.2	20.2	--
6/5/2018	Assessment	0.075	87.6	23.8	0.19	6.4	25	393
8/15/2018	Assessment	0.122	86.5	19.4	0.17	7.3	19.6	418
5/24/2019	Assessment	0.03 J1	85.4	23.6	0.19	7.1	24.9	414
6/26/2019	Assessment	0.04 J1	85.9	18.7	0.16	7.2	22.9	409
9/9/2019	Assessment	0.03 J1	84.4	19.9	0.18	7.2	18.2	404
3/11/2020	Assessment	--	--	--	0.17	6.9	--	--
5/21/2020	Assessment	0.02 J1	88.5	32.4	0.20	7.1	41.3	409
11/16/2020	Assessment	0.03 J1	85.0	18.6	0.18	6.2	19.1	409
2/3/2021	Assessment	0.03 J1	90.6	19.4	0.20	7.0	20.0	396
5/26/2021	Assessment	0.029 J1	87.6	18.9	0.20	9.4	18.9	410
11/10/2021	Assessment	0.029 J1	86.3	19.1	0.18	6.6	17.4	390
2/16/2022	Assessment	0.028 J1	86.9	20.0	0.18	6.7	21.3	430
5/10/2022	Assessment	0.027 J1	101	23.2	0.17	6.8	25.7	410 L1
11/1/2022	Assessment	0.031 J1	85.5	18.8	0.18	6.8	17.8	400
2/8/2023	Assessment	0.029 J1	84.6	20.4	0.17	7.5	20.4	410
6/1/2023	Assessment	0.022 J1	73.5	--	--	5.6	--	--
6/6/2023	Assessment	--	--	23.9	0.17	7.4	26.4	410
11/1/2023	Assessment	0.027 J1	75.6	19.0	0.18	6.6	18.3	410

Table 1. Groundwater Data Summary: MW-1601D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/27/2016	Background	0.03 J1	6.04	491	0.024	0.12	0.8	1.36	1.116	0.22	1.05	0.003	< 0.002 U1	2.54	0.1	0.01 J1
7/19/2016	Background	0.02 J1	8.20	540	< 0.005 U1	0.01 J1	0.4	0.502	2.248	0.22	0.031	0.005	< 0.002 U1	3.96	0.07 J1	0.055
9/20/2016	Background	0.01 J1	8.59	602	< 0.005 U1	< 0.004 U1	0.2	0.224	1.732	0.17	0.01 J1	< 0.0002 U1	< 0.002 U1	3.08	< 0.03 U1	< 0.01 U1
11/16/2016	Background	0.02 J1	9.20	616	< 0.005 U1	0.01 J1	0.089	0.174	0.946	0.15	0.022	0.015	< 0.002 U1	3.14	< 0.03 U1	0.04 J1
1/10/2017	Background	< 0.01 U1	8.95	527	< 0.005 U1	< 0.004 U1	0.293	0.197	1.929	0.19	0.006 J1	0.004	< 0.002 U1	3.10	< 0.03 U1	< 0.01 U1
3/7/2017	Background	< 0.01 U1	9.32	582	< 0.005 U1	< 0.004 U1	0.417	0.148	0.868	0.17	0.021	0.004	< 0.002 U1	2.66	< 0.03 U1	< 0.01 U1
5/9/2017	Background	0.05	9.47	583	0.020	0.02	0.121	0.152	0.983	0.17	0.026	0.008	0.005	2.84	0.1	0.050
7/17/2017	Background	< 0.01 U1	9.38	532	< 0.004 U1	0.006 J1	0.129	0.103	3.139	0.17	0.031	0.006	< 0.002 U1	2.67	< 0.03 U1	< 0.01 U1
6/5/2018	Assessment	0.03 J1	11.4	552	< 0.004 U1	< 0.005 U1	0.055	0.149	2.095	0.19	0.022	0.007	< 0.002 U1	3.34	< 0.03 U1	< 0.01 U1
8/15/2018	Assessment	0.02 J1	10.3	540	< 0.004 U1	0.01 J1	0.387	0.120	--	0.17	0.084	< 0.0002 U1	--	3.11	< 0.03 U1	0.02 J1
5/24/2019	Assessment	< 0.02 U1	10.3	638	< 0.02 U1	< 0.01 U1	0.06 J1	0.090	0.977	0.19	< 0.02 U1	0.01 J1	< 0.002 U1	2.63	0.03 J1	< 0.1 U1
6/26/2019	Assessment	< 0.02 U1	9.80	542	< 0.02 U1	< 0.01 U1	0.07 J1	0.075	0.986	0.16	0.02 J1	0.02 J1	< 0.002 U1	2.94	< 0.03 U1	< 0.1 U1
9/9/2019	Assessment	< 0.02 U1	11.0	575	< 0.02 U1	< 0.01 U1	0.08 J1	0.054	0.702	0.18	< 0.05 U1	0.00170	< 0.002 U1	3.15	< 0.03 U1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	10.7	575	< 0.02 U1	< 0.01 U1	0.1 J1	0.059	0.789	0.17	< 0.05 U1	0.00170	< 0.002 U1	2.77	0.04 J1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	10.9	670	< 0.02 U1	0.05 J1	0.1 J1	0.077	1.672	0.20	< 0.05 U1	0.00265	< 0.002 U1	2.12	< 0.03 U1	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	11.0	524	< 0.02 U1	< 0.01 U1	0.2 J1	0.05 J1	1.489	0.18	< 0.05 U1	0.00163	< 0.002 U1	2.89	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	12.4	567	< 0.02 U1	0.01 J1	0.241	0.052	2.714	0.20	< 0.05 U1	0.00147	< 0.002 U1	3.23	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	0.09 J1	11.4	536	< 0.007 U1	0.015 J1	0.13 J1	0.05	1.41	0.20	< 0.05 U1	0.0014	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	11.5	509	< 0.007 U1	< 0.004 U1	0.21	0.051	0.77	0.18	< 0.05 U1	0.00133	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	< 0.02 U1	11.3	522	< 0.007 U1	0.007 J1	0.16 J1	0.054	1.66	0.18	< 0.05 U1	0.00136	< 0.002 U1	3.0	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.02 J1	11.5	594	< 0.007 U1	0.025	0.37	0.102	1.77	0.17	0.06 J1	0.00156	< 0.002 U1	2.9	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	11.5	515	< 0.007 U1	0.004 J1	0.21	0.033	1.28	0.18	< 0.05 U1	0.00129	< 0.002 U1	3.2	< 0.09 U1	< 0.04 U1
2/8/2023	Assessment	< 0.02 U1	11.7	530	< 0.007 U1	< 0.004 U1	0.34	0.048	2.09	0.17	< 0.05 U1	0.00150	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
6/1/2023	Assessment	0.018 J1	9.79	494	< 0.007 U1	< 0.004 U1	0.18 J1	0.055	0.88	--	< 0.05 U1	0.00160	< 0.002 U1	2.5	< 0.04 U1	< 0.02 U1
6/6/2023	Assessment	--	--	--	--	--	--	--	--	0.17	--	--	--	--	--	--
11/1/2023	Assessment	0.01 J1	10.6	443	< 0.007 U1	< 0.004 U1	0.25 J1	0.045	1.88	0.18	< 0.05 U1	0.00106	< 0.002 U1	3.2	< 0.04 U1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1601I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/8/2016	Background	0.024	84.9	26.3	0.21	7.4	54.0	419
7/19/2016	Background	0.023	84.1	33.3	0.25	7.2	54.0	430
9/20/2016	Background	0.043	85.2	32.3	0.22	7.1	49.1	432
11/16/2016	Background	0.026	91.6	31.7	0.19	7.2	46.7	434
1/10/2017	Background	0.018	92.6	31.3	0.19	6.7	47.7	429
3/7/2017	Background	0.029	84.0	32.5	0.22	7.1	48.5	427
5/9/2017	Background	0.079	90.0	33.1	0.21	6.8	49.1	422
7/17/2017	Background	0.039	82.0	32.0	0.19	9.5	49.9	418
10/4/2017	Detection	0.088	77.5	31.6	0.20	6.8	51.8	428
12/12/2017	Detection	--	--	30.5	0.21	7.1	52.8	--
6/5/2018	Assessment	0.052	87.8	31.4	0.24	7.6	50	424
8/15/2018	Assessment	0.054	91.7	31.3	0.25	7.3	49.9	429
6/26/2019	Assessment	0.03 J1	85.0	31.2	0.21	7.2	50.8	439
9/9/2019	Assessment	0.02 J1	85.1	30.8	0.22	7.1	42.7	426
3/11/2020	Assessment	--	--	--	0.23	6.9	--	--
5/21/2020	Assessment	0.02 J1	87.8	31.5	0.26	6.8	52.1	435
11/16/2020	Assessment	0.02 J1	80.2	29.8	0.24	6.2	49.5	418
2/3/2021	Assessment	0.02 J1	85.7	29.8	0.26	6.8	50.4	414
5/26/2021	Assessment	0.023 J1	95.8	30.0	0.27	9.4	50.2	420
11/10/2021	Assessment	0.025 J1	85.8	29.4	0.25	6.6	48.3	420
2/16/2022	Assessment	0.023 J1	86.6	29.9	0.24	6.6	51.0	430
5/10/2022	Assessment	0.022 J1	94.9	31.0	0.24	6.7	51.5	420 L1
11/1/2022	Assessment	0.025 J1	81.1	29.8	0.24	7.0	49.9	420
2/8/2023	Assessment	0.027 J1	79.7	29.2	0.24	7.2	48.7	420
6/1/2023	Assessment	0.023 J1	76.7	28.6	0.23	5.6	48.8	420
11/1/2023	Assessment	0.023 J1	72.4	28.5	0.25	6.5	48.5	410

Table 1. Groundwater Data Summary: MW-1601I
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/8/2016	Background	0.02 J1	11.4	612	< 0.005 U1	< 0.004 U1	0.1	1.84	1.432	0.21	0.042	0.003	< 0.002 U1	2.80	< 0.03 U1	< 0.01 U1
7/19/2016	Background	0.02 J1	14.6	620	< 0.005 U1	< 0.004 U1	0.9	1.98	1.036	0.25	0.045	0.004	< 0.002 U1	2.81	< 0.03 U1	< 0.01 U1
9/20/2016	Background	0.02 J1	14.9	681	< 0.005 U1	< 0.004 U1	0.2	1.68	2.329	0.22	0.02 J1	0.008	< 0.002 U1	2.53	< 0.03 U1	0.01 J1
11/16/2016	Background	0.02 J1	16.2	689	< 0.005 U1	0.007 J1	0.110	1.68	1.451	0.19	0.030	0.002	< 0.002 U1	2.36	< 0.03 U1	0.02 J1
1/10/2017	Background	0.01 J1	16.2	605	< 0.005 U1	< 0.004 U1	0.387	1.58	0.993	0.19	0.02 J1	0.007	< 0.002 U1	2.24	< 0.03 U1	0.02 J1
3/7/2017	Background	0.03 J1	16.9	650	< 0.005 U1	< 0.004 U1	0.267	1.59	0.986	0.22	0.070	0.010	< 0.002 U1	2.74	0.06 J1	0.03 J1
5/9/2017	Background	0.05	17.9	634	0.020	0.02	0.156	1.69	1.064	0.21	0.052	0.014	0.005	2.23	0.1	0.050
7/17/2017	Background	0.02 J1	18.0	613	< 0.004 U1	< 0.005 U1	0.160	1.74	1.276	0.19	0.042	0.011	< 0.002 U1	2.13	< 0.03 U1	0.02 J1
6/5/2018	Assessment	0.02 J1	18.6	631	0.008 J1	0.01 J1	0.21	1.73	1.538	0.24	0.201	0.013	< 0.002 U1	2.48	0.05 J1	0.04 J1
8/15/2018	Assessment	0.02 J1	19.1	626	< 0.004 U1	0.009 J1	0.074	1.63	2.274	0.25	0.067	0.009	--	2.21	< 0.03 U1	0.02 J1
6/26/2019	Assessment	< 0.02 U1	18.0	619	< 0.02 U1	< 0.01 U1	0.06 J1	1.50	1.862	0.21	0.04 J1	0.02 J1	< 0.002 U1	2.28	< 0.03 U1	< 0.1 U1
9/9/2019	Assessment	0.04 J1	39.5	670	< 0.02 U1	0.07	0.250	1.63	1.522	0.22	0.251	0.00672	< 0.002 U1	2.26	0.04 J1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	17.4	621	< 0.02 U1	< 0.01 U1	0.1 J1	1.23	1.202	0.23	< 0.05 U1	0.00646	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	17.2	608	< 0.02 U1	< 0.01 U1	0.1 J1	1.26	0.90	0.26	< 0.05 U1	0.00621	< 0.002 U1	2.10	< 0.03 U1	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	17.8	586	< 0.02 U1	< 0.01 U1	0.2 J1	1.22	2.329	0.24	< 0.05 U1	0.00688	< 0.002 U1	2.02	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	19.8	634	< 0.02 U1	< 0.01 U1	0.207	1.33	1.949	0.26	0.09 J1	0.00616	< 0.002 U1	2.24	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	< 0.02 U1	18.3	589 M1, P3	< 0.007 U1	0.039	0.05 J1	1.21	1.50	0.27	< 0.05 U1	0.00624	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	19.0	625	< 0.007 U1	< 0.004 U1	0.22	1.19	2.11	0.25	< 0.05 U1	0.00632	< 0.002 U1	2.2	< 0.09 U1	0.04 J1
2/16/2022	Assessment	< 0.02 U1	19.1	643	< 0.007 U1	< 0.004 U1	0.40	1.30	1.49	0.24	< 0.05 U1	0.00627	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	19.5	627	< 0.007 U1	0.011 J1	0.24	1.24	1.97	0.24	< 0.05 U1	0.00590	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	18.5	593	< 0.007 U1	< 0.004 U1	0.25	1.19	1.16	0.24	< 0.05 U1	0.00682	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
2/8/2023	Assessment	< 0.02 U1	18.6	594	< 0.007 U1	< 0.004 U1	0.30	1.22	1.99	0.24	< 0.05 U1	0.00696	< 0.002 U1	2.3	< 0.09 U1	0.05 J1
6/1/2023	Assessment	0.031 J1	17.3	568	< 0.007 U1	< 0.004 U1	0.29 J1	1.11	2.00	0.23	< 0.05 U1	0.00620	< 0.002 U1	2.2	< 0.04 U1	< 0.02 U1
11/1/2023	Assessment	0.012 J1	17.7	562	< 0.007 U1	< 0.004 U1	0.20 J1	1.16	0.95	0.25	< 0.05 U1	0.00648	< 0.002 U1	2.2	< 0.04 U1	0.02 J1

Table 1. Groundwater Data Summary: MW-1601S
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/8/2016	Background	0.108	76.9	45.9	0.34	7.6	39.2	440
7/19/2016	Background	0.106	71.8	46.4	0.36	7.2	40.1	415
9/20/2016	Background	0.094	74.2	43.5	0.33	7.2	37.6	442
11/16/2016	Background	0.100	78.2	42.3	0.26	7.2	36.4	442
1/10/2017	Background	0.113	78.5	42.0	0.28	6.8	35.9	424
3/7/2017	Background	0.098	79.2	41.1	0.30	7.2	42.5	413
5/8/2017	Background	0.092	86.7	41.9	0.31	6.8	44.0	389
7/17/2017	Background	0.077	76.8	41.7	0.25	6.6	40.5	443
10/4/2017	Detection	0.113	73.5	40.9	0.29	7.3	41.6	441
12/12/2017	Detection	--	--	36.9	0.33	7.2	43	--
6/5/2018	Assessment	0.142	66.5	34.8	0.41	7.4	26.5	366
8/15/2018	Assessment	0.208	70.8	33.7	0.42	7.2	31.3	374
5/24/2019	Assessment	0.06 J1	77.2	38.5	0.36	7.2	41.8	451
6/25/2019	Assessment	0.07 J1	75.9	35.3	0.31	7.3	51.4	456
9/9/2019	Assessment	0.068	79.6	37.6	0.31	7.2	52.9	445
3/11/2020	Assessment	--	--	--	0.34	7.1	--	--
5/21/2020	Assessment	0.076	82.3	40.6	0.37	7.1	58.3	462
11/16/2020	Assessment	0.092	74.0	40.1	0.35	6.4	53.0	432
2/3/2021	Assessment	0.125	74.0	39.7	0.40	7.1	60.6	432
5/26/2021	Assessment	0.095	77.7	37.6	0.43	9.4	57.2	400
11/10/2021	Assessment	0.113	68.6	36.7	0.42	6.9	60.3	400
2/16/2022	Assessment	0.121	64.3	33.1	0.42	6.9	55.0	380
5/10/2022	Assessment	0.109	66.7	36.1	0.40	7.0	54.3	380 L1
11/1/2022	Assessment	0.140	68.3	33.7	0.38	7.1	62.2	390
2/8/2023	Assessment	0.144	65.8 M1	35.2	0.39	7.9	54.4	370
6/1/2023	Assessment	0.116	63.0	36.5	0.36	5.8	52.8	390
10/31/2023	Assessment	0.142	60.1	36.2	0.39	6.8	50.0	370

Table 1. Groundwater Data Summary: MW-1601S
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/8/2016	Background	0.02 J1	1.90	49.4	0.006 J1	0.01 J1	0.2	0.957	0.788	0.34	0.220	< 0.0002 U1	< 0.002 U1	2.17	1.3	0.05 J1
7/19/2016	Background	0.02 J1	2.12	47.7	< 0.005 U1	0.007 J1	0.6	0.478	1.26	0.36	0.114	0.024	< 0.002 U1	1.91	1.3	< 0.01 U1
9/20/2016	Background	0.02 J1	1.99	41.6	< 0.005 U1	0.006 J1	0.2	0.381	0.4671	0.33	0.127	0.005	< 0.002 U1	1.40	1.3	0.03 J1
11/16/2016	Background	0.03 J1	2.00	39.0	< 0.005 U1	0.01 J1	0.123	0.274	0.1634	0.26	0.084	0.009	< 0.002 U1	2.17	1.3	0.03 J1
1/10/2017	Background	0.05 J1	2.00	43.5	< 0.005 U1	0.03	0.279	0.520	0.717	0.28	0.247	0.006	< 0.002 U1	1.61	1.4	0.104
3/7/2017	Background	0.02 J1	2.25	50.7	< 0.005 U1	0.01 J1	1.52	0.980	0.1969	0.30	0.348	0.010	< 0.002 U1	1.49	1.4	0.01 J1
5/8/2017	Background	0.05	2.02	42.6	0.020	0.02	0.192	0.411	0.3203	0.31	0.119	0.010	0.005	1.24	1.7	0.050
7/17/2017	Background	0.05	2.70	70.0	0.01 J1	0.03	1.05	2.67	1.812	0.25	0.807	0.012	0.003 J1	1.46	1.8	0.04 J1
6/5/2018	Assessment	0.04 J1	2.45	44	0.02 J1	0.24	0.579	0.615	0.261	0.41	0.349	0.012	< 0.002 U1	1.79	0.5	< 0.01 U1
8/15/2018	Assessment	0.03 J1	2.28	38.0	0.005 J1	0.009 J1	0.114	0.557	0.398	0.42	0.141	0.004	--	1.81	1.1	0.05 J1
5/24/2019	Assessment	< 0.02 U1	2.05	37.2	< 0.02 U1	< 0.01 U1	0.08 J1	0.02 J1	0.0711	0.36	0.03 J1	0.01 J1	< 0.002 U1	1 J1	1.7	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	2.06	44.2	< 0.02 U1	< 0.01 U1	0.1 J1	0.649	0.248	0.31	0.165	0.01 J1	< 0.002 U1	1 J1	1.4	< 0.1 U1
9/9/2019	Assessment	0.02 J1	2.30	51.4	< 0.02 U1	0.02 J1	0.452	1.14	0.914	0.31	0.325	0.00691	< 0.002 U1	1 J1	1.2	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	1.95	37.9	< 0.02 U1	< 0.01 U1	0.2 J1	0.203	1.649	0.34	0.05 J1	0.00618	< 0.002 U1	1 J1	0.9	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	1.94	36.2	< 0.02 U1	< 0.01 U1	0.227	0.053	0.084	0.37	< 0.05 U1	0.00632	< 0.002 U1	1 J1	1.5	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	1.97	34.9	< 0.02 U1	< 0.01 U1	0.347	0.077	0.0911	0.35	< 0.05 U1	0.00609	< 0.002 U1	1 J1	1.6	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	2.10	32.8	< 0.02 U1	< 0.01 U1	0.640	0.070	0.7085	0.40	< 0.05 U1	0.00563	< 0.002 U1	2 J1	1.2	< 0.1 U1
5/26/2021	Assessment	0.07 J1	2.01	30.2	< 0.007 U1	0.005 J1	0.77	0.05	0.87	0.43	0.24	0.00507	< 0.002 U1	1.8	0.66	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	2.23	30.2	< 0.007 U1	< 0.004 U1	0.75	0.074	0.72	0.42	< 0.05 U1	0.00489	< 0.002 U1	1.9	0.67	< 0.04 U1
2/16/2022	Assessment	< 0.02 U1	2.32	30.3	< 0.007 U1	0.044	0.72	0.257	1.58	0.42	0.07 J1	0.00464	< 0.002 U1	2.2	0.76	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	2.47	31.4	< 0.007 U1	0.006 J1	0.34	0.452	0.41	0.40	0.12 J1	0.00458	< 0.002 U1	2.1	0.76	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	2.17	30.4	< 0.007 U1	< 0.004 U1	0.25	0.049	1.09	0.38	< 0.05 U1	0.00537	< 0.002 U1	1.9	1.0	< 0.04 U1
2/8/2023	Assessment	< 0.02 U1	2.28	28.9	< 0.007 U1	< 0.004 U1	0.36	0.051	0.38	0.39	< 0.05 U1	0.00538	< 0.002 U1	1.9	0.75	< 0.04 U1
6/1/2023	Assessment	0.016 J1	2.02	28.0	< 0.007 U1	0.005 J1	0.27 J1	0.049	0.54	0.36	< 0.05 U1	0.00536	< 0.002 U1	1.8	1.01	< 0.02 U1
10/31/2023	Assessment	0.019 J1	2.12	29.9	< 0.007 U1	< 0.004 U1	0.44	0.119	0.96	0.39	< 0.05 U1	0.00547	< 0.002 U1	2.0	0.87	0.03 J1

Table 1. Groundwater Data Summary: MW-1602D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.058	69.7	138	0.36	5.1	20.5	528
7/18/2016	Background	0.065	77.6	166	0.34	8.2	18.5	574
9/20/2016	Background	0.047	71.7	172	0.30	7.8	12.9	580
11/15/2016	Background	0.078	78.0	177	0.33	7.1	17.4	601
1/9/2017	Background	0.084	75.3	178	0.34	7.3	11.4	594
3/7/2017	Background	0.076	66.8	158	0.31	7.3	14.5	586
5/8/2017	Background	0.073	71.9	124	0.31	7.0	16.1	520
7/17/2017	Background	0.091	64.6	112	0.26	7.0	17.5	472
10/3/2017	Detection	0.064	68.3	135	0.29	7.4	16.0	518
12/12/2017	Detection	--	--	141	0.30	7.4	16.9	--
1/3/2018	Detection	--	--	146	--	7.8	--	574
6/5/2018	Assessment	0.07	66	92.8	0.35	7.8	21.6	440
8/13/2018	Assessment	0.098	73.0	131	0.31	7.2	18.0	521
5/24/2019	Assessment	0.04 J1	67.9	68.3	0.33	7.4	20.5	418
6/27/2019	Assessment	0.06 J1	69.8	68.7	0.33	7.3	20.3	429
9/12/2019	Assessment	0.059	57.8	65.1	0.28	7.1	20.2	440
3/11/2020	Assessment	--	--	--	0.33	7.1	--	--
5/20/2020	Assessment	0.04 J1	74.2	62.8	0.35	6.8	23.8	416
11/17/2020	Assessment	0.05 J1	64.0	87.1	0.33	6.9	20.5	452
2/2/2021	Assessment	0.052	66.2	83.8	0.36	6.9	21.3	472
5/26/2021	Assessment	0.045 J1	64.0	76.9	0.35	7.4	22.0	450
11/9/2021	Assessment	0.051	67.6 M1, P3	86.9	0.35	7.4	19.3	460
2/15/2022	Assessment	0.057	68.2	80.7	0.34	7.3	20.2	440
5/11/2022	Assessment	0.048 J1	76.0	66.5	0.34	7.5	24.7	430 L1
11/1/2022	Assessment	0.053	65.5	--	--	7.0	--	--
11/3/2022	Assessment	--	--	77.5	0.32	6.3	21.8	430
2/9/2023	Assessment	0.048 J1	62.9	77.6	0.32	7.9	21.9	440
5/31/2023	Assessment	0.046 J1	62.0	66.7	0.31	7.3	22.3	450
11/1/2023	Assessment	0.053	63.2	85.2	0.33	6.7	20.7	450

Table 1. Groundwater Data Summary: MW-1602D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.02 J1	7.35	380	< 0.005 U1	< 0.004 U1	0.3	0.227	1.147	0.36	0.061	0.001	< 0.002 U1	4.69	0.03 J1	< 0.01 U1
7/18/2016	Background	0.01 J1	8.54	507	< 0.005 U1	< 0.004 U1	0.5	0.166	2.43	0.34	0.02 J1	0.022	< 0.002 U1	3.89	< 0.03 U1	< 0.01 U1
9/20/2016	Background	0.02 J1	8.24	487	< 0.005 U1	< 0.004 U1	0.2	0.116	1.128	0.30	0.022	0.007	< 0.002 U1	3.31	0.03 J1	< 0.01 U1
11/15/2016	Background	0.03 J1	8.32	585	0.01 J1	0.02	0.338	0.248	4.204	0.33	0.195	0.012	< 0.002 U1	3.31	0.05 J1	0.066
1/9/2017	Background	0.01 J1	7.92	503	< 0.005 U1	< 0.004 U1	0.187	0.112	0.976	0.34	0.01 J1	0.005	< 0.002 U1	3.36	< 0.03 U1	0.02 J1
3/7/2017	Background	0.01 J1	8.04	458	< 0.005 U1	< 0.004 U1	0.395	0.106	0.705	0.31	0.029	0.004	< 0.002 U1	3.88	0.05 J1	0.02 J1
5/8/2017	Background	0.05	9.08	436	0.020	0.07	0.232	0.115	0.5884	0.31	0.056	0.007	0.005	3.93	0.1	0.050
7/17/2017	Background	0.01 J1	8.51	419	0.005 J1	< 0.005 U1	0.268	0.110	1.349	0.26	0.036	0.003	< 0.002 U1	3.60	< 0.03 U1	< 0.01 U1
6/5/2018	Assessment	0.02 J1	10	442	0.006 J1	0.01 J1	0.21	0.157	1.861	0.35	0.103	0.008	< 0.002 U1	3.93	< 0.03 U1	< 0.01 U1
8/13/2018	Assessment	0.01 J1	9.28	459	0.008 J1	< 0.005 U1	0.201	0.173	1.021	0.31	0.113	0.002	--	3.18	0.05 J1	< 0.01 U1
5/24/2019	Assessment	< 0.02 U1	9.29	405	< 0.02 U1	< 0.01 U1	0.05 J1	0.065	0.710	0.33	< 0.02 U1	0.01 J1	< 0.002 U1	3.23	0.03 J1	< 0.1 U1
6/27/2019	Assessment	< 0.02 U1	9.05	386	< 0.02 U1	< 0.01 U1	0.06 J1	0.066	0.688	0.33	0.02 J1	< 0.009 U1	< 0.002 U1	3.12	0.03 J1	< 0.1 U1
9/12/2019	Assessment	0.17	10.3	433	0.02 J1	0.03 J1	0.763	0.373	1.13	0.28	0.437	0.00286	< 0.002 U1	3.64	0.09 J1	< 0.1 U1
3/11/2020	Assessment	0.03 J1	9.56	439	0.05 J1	0.01 J1	1.32	0.850	2.253	0.33	0.864	0.00291	0.003 J1	3.13	0.2 J1	< 0.1 U1
5/20/2020	Assessment	< 0.02 U1	9.46	412	< 0.02 U1	< 0.01 U1	0.354	0.066	0.872	0.35	< 0.05 U1	0.00212	< 0.002 U1	3.38	0.07 J1	< 0.1 U1
11/17/2020	Assessment	< 0.02 U1	8.82	431	< 0.02 U1	< 0.01 U1	0.276	0.055	2.518	0.33	< 0.05 U1	0.00275	< 0.002 U1	3.04	< 0.03 U1	< 0.1 U1
2/2/2021	Assessment	< 0.02 U1	9.29	445	< 0.02 U1	< 0.01 U1	0.247	0.057	1.727	0.36	< 0.05 U1	0.00247	< 0.002 U1	3.51	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	< 0.02 U1	10.2	452	< 0.007 U1	< 0.004 U1	0.26	0.052	0.99	0.35	< 0.05 U1	0.00234	< 0.002 U1	3.5	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	< 0.02 U1	9.51	449 M1	< 0.007 U1	0.028	0.18 J1	0.049	1.32	0.35	< 0.05 U1	0.00239	< 0.002 U1	3.2	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.02 J1	9.69	445	< 0.007 U1	< 0.004 U1	0.48	0.080	1.85	0.34	< 0.05 U1	0.00241	< 0.002 U1	3.4	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	< 0.02 U1	10.1	444	< 0.007 U1	< 0.004 U1	0.24	0.067	1.29	0.34	< 0.05 U1	0.00215	< 0.002 U1	3.6	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	10.1	451	< 0.007 U1	< 0.004 U1	0.27	0.027	2.20	--	< 0.05 U1	0.00241	< 0.002 U1	3.3	< 0.09 U1	< 0.04 U1
11/3/2022	Assessment	--	--	--	--	--	--	--	--	0.32	--	--	--	--	--	--
2/9/2023	Assessment	< 0.02 U1	8.89	411	0.007 J1	< 0.004 U1	0.18 J1	0.042	1.35	0.32	< 0.05 U1	0.00239	< 0.002 U1	3.2	< 0.09 U1	< 0.04 U1
5/31/2023	Assessment	0.013 J1	9.17	408	< 0.007 U1	< 0.004 U1	0.24 J1	0.045	2.42	0.31	< 0.05 U1	0.00213	< 0.002 U1	3.2	< 0.04 U1	< 0.02 U1
11/1/2023	Assessment	0.012 J1	9.47	455	< 0.007 U1	< 0.004 U1	0.26 J1	0.059	5.66	0.33	< 0.05 U1	0.00250	< 0.002 U1	3.2	< 0.04 U1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1602I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.047	78.6	33.0	0.32	7.1	84.1	424
7/18/2016	Background	0.043	81.1	32.3	0.30	7.4	89.4	452
9/20/2016	Background	0.037	79.9	30.2	0.28	7.3	77.7	412
11/15/2016	Background	0.057	87.6	28.7	0.29	7.1	85.3	457
1/9/2017	Background	0.039	80.6	27.8	0.26	7.4	77.6	420
3/7/2017	Background	0.061	71.1	27.5	0.27	7.3	77.8	388
5/8/2017	Background	0.108	79.7	27.6	0.28	6.9	78.4	430
7/17/2017	Background	0.052	68.8	27.1	0.23	6.9	76.3	421
10/3/2017	Detection	0.065	69.2	27.5	0.26	7.3	80.8	414
12/12/2017	Detection	--	--	28.3	0.26	7.3	82.8	--
1/3/2018	Detection	--	--	--	--	7.7	82.3	--
6/5/2018	Assessment	0.06	71.3	29.8	0.31	7.8	77.6	410
8/13/2018	Assessment	0.109	76.0	28.5	0.28	7.4	75.0	405
5/24/2019	Assessment	0.05 J1	74.6	29.0	0.30	7.4	65.9	410
6/27/2019	Assessment	0.06 J1	76.2	29.2	0.30	7.3	67.4	405
9/12/2019	Assessment	0.051	83.1	28.7	0.30	7.3	70.7	404
3/11/2020	Assessment	--	--	--	0.29	7.0	--	--
5/20/2020	Assessment	0.114	113	79.0	0.30	7.7	177	627
11/17/2020	Assessment	0.121	85.0	54.5	0.30	7.0	135	537
2/3/2021	Assessment	0.088	76.1	35.6	0.33	6.7	86.0	428
5/26/2021	Assessment	0.067	73.7	31.2	0.32	7.5	76.6	420
11/9/2021	Assessment	0.048 J1	68.4	23.0	0.31	6.9	57.0	370
2/15/2022	Assessment	0.046 J1	68.5	23.0	0.30	7.1	57.8	380
5/11/2022	Assessment	0.043 J1	81.0	24.0	0.29	7.5	58.7	380 L1
10/31/2022	Assessment	0.041 J1	68.4	--	--	6.6	--	--
11/3/2022	Assessment	--	--	22.5	0.29	7.2	60.2	360
2/8/2023	Assessment	0.041 J1	77.3	23.6	0.27	7.8	105	430 S7
5/31/2023	Assessment	0.040 J1	102	24.1	0.24	7.3	235	620
11/1/2023	Assessment	0.050	58.9	22.2	0.31	6.8	62.2	380

Table 1. Groundwater Data Summary: MW-1602I
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.02 J1	16.5	135	< 0.005 U1	0.005 J1	0.2	1.35	0.983	0.32	0.096	0.003	< 0.002 U1	2.61	< 0.03 U1	< 0.01 U1
7/18/2016	Background	0.02 J1	18.7	145	< 0.005 U1	0.006 J1	0.2	1.70	1.526	0.30	0.074	0.006	< 0.002 U1	2.68	0.03 J1	0.01 J1
9/20/2016	Background	0.02 J1	15.5	123	< 0.005 U1	< 0.004 U1	0.2	1.34	1.421	0.28	0.045	0.006	< 0.002 U1	2.31	0.05 J1	0.01 J1
11/15/2016	Background	0.03 J1	18.2	136	< 0.005 U1	0.006 J1	0.075	1.44	1.19	0.29	0.02 J1	0.015	< 0.002 U1	2.13	0.04 J1	0.03 J1
1/9/2017	Background	0.02 J1	18.3	126	< 0.005 U1	< 0.004 U1	0.161	1.38	0.7655	0.26	0.045	0.003	< 0.002 U1	2.23	< 0.03 U1	0.02 J1
3/7/2017	Background	0.03 J1	20.0	122	0.005 J1	< 0.004 U1	0.484	1.43	0.845	0.27	0.178	0.009	< 0.002 U1	2.21	0.06 J1	0.02 J1
5/8/2017	Background	0.14	25.5	123	0.020	0.02	0.459	1.69	1.024	0.28	0.292	0.009	0.005	2.08	0.1	0.050
7/17/2017	Background	0.05	27.3	127	0.006 J1	0.006 J1	0.193	1.52	0.8024	0.23	0.167	0.010	< 0.002 U1	2.01	< 0.03 U1	0.04 J1
6/5/2018	Assessment	0.1	38.6	128	0.01 J1	0.01 J1	0.338	1.8	0.968	0.31	0.374	0.013	< 0.002 U1	2.42	0.07 J1	0.03 J1
8/13/2018	Assessment	0.05 J1	26.9	111	0.006 J1	0.007 J1	0.086	1.31	0.9	0.28	0.092	0.001	--	2.10	< 0.03 U1	0.03 J1
5/24/2019	Assessment	0.08 J1	29.6	121	< 0.02 U1	0.03 J1	0.305	1.75	0.819	0.30	0.354	0.009 J1	< 0.002 U1	2.03	0.04 J1	< 0.1 U1
6/27/2019	Assessment	0.03 J1	22.4	115	< 0.02 U1	< 0.01 U1	0.2 J1	1.39	0.733	0.30	0.06 J1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
9/12/2019	Assessment	0.04 J1	30.0	120	< 0.02 U1	< 0.01 U1	0.1 J1	1.32	1.312	0.30	0.1 J1	0.00572	< 0.002 U1	2.11	0.03 J1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	22.7	118	< 0.02 U1	< 0.01 U1	< 0.04 U1	1.36	0.6159	0.29	< 0.05 U1	0.00566	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/20/2020	Assessment	0.03 J1	24.6	142	< 0.02 U1	< 0.01 U1	0.09 J1	1.83	0.665	0.30	< 0.05 U1	0.00620	< 0.002 U1	2 J1	0.1 J1	< 0.1 U1
11/17/2020	Assessment	0.06 J1	33.9	127	< 0.02 U1	< 0.01 U1	0.2 J1	1.43	2.14	0.30	0.06 J1	0.00580	< 0.002 U1	2.02	0.08 J1	< 0.1 U1
2/3/2021	Assessment	0.03 J1	27.8	107	< 0.02 U1	< 0.01 U1	0.226	1.21	1.668	0.33	< 0.05 U1	0.00531	< 0.002 U1	2.09	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	0.06 J1	24.9	108	0.009 J1	< 0.004 U1	0.26	1.18	1.17	0.32	< 0.05 U1	0.00524	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.04 J1	27.7	97.2	< 0.007 U1	< 0.004 U1	0.22	1.10	1.31	0.31	< 0.05 U1	0.00505	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.02 J1	24.4	95.0	< 0.007 U1	< 0.004 U1	0.36	1.06	0.9	0.30	< 0.05 U1	0.00487	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	0.12	42.9	99.2	< 0.007 U1	0.005 J1	0.33	1.21	1.04	0.29	0.09 J1	0.00455	< 0.002 U1	2.3	< 0.09 U1	< 0.04 U1
10/31/2022	Assessment	0.02 J1	21.5	98.2	< 0.007 U1	< 0.004 U1	0.21	1.05	0.86	--	< 0.05 U1	0.00509	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/3/2022	Assessment	--	--	--	--	--	--	--	--	0.29	--	--	--	--	--	--
2/8/2023	Assessment	0.15	72.4	123	0.012 J1	0.005 J1	0.31	1.46	1.73	0.27	0.20	0.00555	< 0.002 U1	2.1	< 0.09 U1	< 0.04 U1
5/31/2023	Assessment	0.032 J1	24.5	120	< 0.007 U1	< 0.004 U1	0.22 J1	1.49	1.86	0.24	< 0.05 U1	0.00561	< 0.002 U1	2.0	0.05 J1	0.03 J1
11/1/2023	Assessment	0.033 J1	20.1	85.6	< 0.007 U1	< 0.004 U1	0.21 J1	1.02	1.28	0.31	< 0.05 U1	0.00521	< 0.002 U1	2.7	< 0.04 U1	0.03 J1

Table 1. Groundwater Data Summary: MW-1603D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/8/2016	Background	0.073	70.8	26.7	0.31	7.1	59.0	433
7/18/2016	Background	0.074	79.6	26.7	0.33	6.9	55.3	430
10/10/2016	Background	0.065	81.2	26.0	0.32	7.3	47.2	406
11/15/2016	Background	0.062	90.5	25.5	0.30	7.1	50.6	399
1/9/2017	Background	0.055	91.9	25.1	0.26	7.3	49.7	401
3/7/2017	Background	0.061	86.8	26.1	0.29	7.2	47.7	392
5/8/2017	Background	0.082	91.1	26.3	0.27	7.2	47.1	417
7/17/2017	Background	0.080	80.4	25.9	0.24	6.7	45.9	400
10/3/2017	Detection	0.054	79.4	26.2	0.26	7.1	44.6	393
12/12/2017	Detection	--	--	27	0.27	7.0	42.3	--
6/5/2018	Assessment	0.081	80.6	30.1	0.3	7.2	40.9	412
8/13/2018	Assessment	0.147	87.9	25.4	0.27	7.1	39.1	385
5/21/2019	Assessment	0.04 J1	71.6	25.3	0.28	7.2	38.5	397
6/27/2019	Assessment	0.06 J1	77.9	25.0	0.30	7.6	32.8	388
9/11/2019	Assessment	0.04 J1	82.8	26.1	0.30	7.2	36.4	407
3/10/2020	Assessment	--	--	--	0.28	6.7	--	--
5/21/2020	Assessment	0.04 J1	82.2	25.6	0.31	7.4	34.0	400
11/13/2020	Assessment	0.04 J1	79.4	24.6	0.29	6.8	31.5	380
2/2/2021	Assessment	0.04 J1	79.4	25.6	0.31	6.3	33.7	381
5/26/2021	Assessment	0.031 J1	80.6	26.8	0.31	7.7	33.8	390
11/9/2021	Assessment	0.031 J1	81.1	26.3	0.30	6.8	31.5	380
2/15/2022	Assessment	0.035 J1	86.6	27.3	0.28	7.1	34.9	390
5/10/2022	Assessment	0.021 J1	88.9 M1, P3	29.1	0.28	7.2	36.2	390 L1
11/2/2022	Assessment	0.032 J1	83.8 M1, P3	29.7	0.28	11.0	39.8	380
2/9/2023	Assessment	0.034 J1	81.9	28.0	0.27	7.9	36.3	320
5/31/2023	Assessment	0.027 J1	80.4 M1	--	--	5.8	--	--
6/6/2023	Assessment	--	--	28.4	0.27	6.8	37.2	370
11/1/2023	Assessment	0.034 J1	101	29.6	0.28	6.6	39.5	390

Table 1. Groundwater Data Summary: MW-1603D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/8/2016	Background	0.01 J1	10.2	112	< 0.005 U1	< 0.004 U1	0.2	1.34	1.206	0.31	0.02 J1	0.003	< 0.002 U1	6.70	< 0.03 U1	< 0.01 U1
7/18/2016	Background	0.02 J1	11.0	120	< 0.005 U1	0.007 J1	0.3	1.30	0.66	0.33	0.01 J1	0.008	< 0.002 U1	6.39	0.04 J1	0.068
10/10/2016	Background	0.09	9.91	122	0.049	0.03	23.8	2.01	0.954	0.32	1.38	0.007	< 0.002 U1	6.82	0.3	0.04 J1
11/15/2016	Background	0.03 J1	11.3	113	< 0.01 U1	0.01 J1	0.08 J1	0.703	1.275	0.30	0.02 J1	0.011	< 0.002 U1	5.02	< 0.06 U1	< 0.02 U1
1/9/2017	Background	0.01 J1	11.3	111	< 0.005 U1	0.009 J1	0.143	0.584	0.343	0.26	0.029	0.012	< 0.002 U1	4.98	< 0.03 U1	< 0.01 U1
3/7/2017	Background	0.01 J1	11.3	108	< 0.005 U1	< 0.004 U1	0.220	0.553	0.838	0.29	0.024	0.007	< 0.002 U1	5.11	0.04 J1	0.02 J1
5/8/2017	Background	0.05	11.3	103	0.020	0.02	0.238	0.586	0.982	0.27	0.068	0.006	0.005	4.78	0.1	0.050
7/17/2017	Background	0.02 J1	12.1	114	< 0.004 U1	< 0.005 U1	0.112	0.525	1.696	0.24	0.006 J1	0.008	< 0.002 U1	4.68	< 0.03 U1	< 0.01 U1
6/5/2018	Assessment	0.02 J1	12.3	109	0.009 J1	< 0.005 U1	0.251	0.441	1.607	0.3	0.207	0.008	< 0.002 U1	4.09	0.09 J1	0.03 J1
8/13/2018	Assessment	0.02 J1	12.5	105	< 0.004 U1	< 0.005 U1	0.097	0.409	0.84	0.27	0.040	0.005	--	4.38	< 0.03 U1	0.02 J1
5/21/2019	Assessment	< 0.02 U1	12.6	111	< 0.02 U1	< 0.01 U1	0.05 J1	0.354	0.73	0.28	0.04 J1	< 0.009 U1	< 0.002 U1	4.56	< 0.03 U1	< 0.1 U1
6/27/2019	Assessment	< 0.02 U1	13.2	111	< 0.02 U1	< 0.01 U1	0.06 J1	0.327	0.766	0.30	< 0.02 U1	< 0.009 U1	< 0.002 U1	3.98	< 0.03 U1	< 0.1 U1
9/11/2019	Assessment	< 0.02 U1	13.2	112	< 0.02 U1	< 0.01 U1	0.2 J1	0.327	0.957	0.30	0.08 J1	0.00380	< 0.002 U1	4.10	0.03 J1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	12.8	120	< 0.02 U1	< 0.01 U1	0.07 J1	0.291	1.167	0.28	< 0.05 U1	0.00380	< 0.002 U1	4.00	0.03 J1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	13.8	120	< 0.02 U1	< 0.01 U1	0.275	0.280	0.721	0.31	< 0.05 U1	0.00323	< 0.002 U1	3.62	0.04 J1	< 0.1 U1
11/13/2020	Assessment	< 0.02 U1	13.5	119	< 0.02 U1	< 0.01 U1	0.2 J1	0.281	1.91	0.29	< 0.05 U1	0.00326	< 0.002 U1	3.64	< 0.03 U1	< 0.1 U1
2/2/2021	Assessment	< 0.02 U1	14.6	121	< 0.02 U1	< 0.01 U1	0.2 J1	0.281	2.834	0.31	< 0.05 U1	0.00315	< 0.002 U1	3.66	0.04 J1	< 0.1 U1
5/26/2021	Assessment	< 0.02 U1	14.7	125	< 0.007 U1	< 0.004 U1	0.25	0.288	0.47	0.31	< 0.05 U1	0.00331	< 0.002 U1	3.6	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.03 J1	14.1	121	< 0.007 U1	< 0.004 U1	0.21	0.247	1.78	0.30	< 0.05 U1	0.00321	< 0.002 U1	3.3	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.02 J1	14.6	128	< 0.007 U1	0.035	0.41	0.326	1.88	0.28	0.48	0.00329	< 0.002 U1	3.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	14.6	122	< 0.007 U1	< 0.004 U1	0.30	0.286	1.59	0.28	< 0.05 U1	0.00320	< 0.002 U1	3.7	< 0.09 U1	< 0.04 U1
11/2/2022	Assessment	< 0.02 U1	14.2	128 P3	< 0.007 U1	< 0.004 U1	0.28	0.237	1.48	0.28	< 0.05 U1	0.00347	< 0.002 U1	3.3	< 0.09 U1	< 0.04 U1
2/9/2023	Assessment	< 0.02 U1	14.5	129	0.011 J1	< 0.004 U1	0.25	0.272	0.97	0.27	< 0.05 U1	0.00347	< 0.002 U1	3.5	< 0.09 U1	< 0.04 U1
5/31/2023	Assessment	0.036 J1	13.4	122	< 0.007 U1	0.016 J1	0.25 J1	0.275	1.01	--	0.17 J1	0.00331	< 0.002 U1	3.4	< 0.04 U1	0.06 J1
6/6/2023	Assessment	--	--	--	--	--	--	--	--	0.27	--	--	--	--	--	--
11/1/2023	Assessment	0.012 J1	14.4	137	< 0.007 U1	< 0.004 U1	0.28 J1	0.279	0.51	0.28	< 0.05 U1	0.00323	< 0.002 U1	3.7	< 0.04 U1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1603I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/8/2016	Background	0.151	89.2	37.7	0.39	7.6	71.9	465
7/18/2016	Background	0.157	93.9	38.8	0.43	7.2	83.8	502
9/20/2016	Background	0.153	99.8	40.1	0.39	7.3	111	500
11/15/2016	Background	0.173	101	37.4	0.42	7.2	88.5	481
1/9/2017	Background	0.147	94.7	34.6	0.38	7.2	75.3	478
3/7/2017	Background	0.187	85.0	34.7	0.40	7.3	73.2	460
5/8/2017	Background	0.187	87.2	36.8	0.40	7.3	71.0	452
7/17/2017	Background	0.196	79.3	35.1	0.35	9.8	74.9	449
10/3/2017	Detection	0.134	80.9	35.6	0.39	7.2	74.1	442
12/12/2017	Detection	--	--	57.4	0.52	6.8	201	--
1/3/2018	Detection	0.166	--	--	--	7.9	65.1	--
6/5/2018	Assessment	0.131	77.7	37.3	0.46	7.3	62	424
8/13/2018	Assessment	0.130	85.9	31.5	0.43	7.4	66.2	434
5/21/2019	Assessment	0.06 J1	81.4	39.4	0.45	7.3	74.6	467
6/27/2019	Assessment	0.07 J1	78.6	37.7	0.47	8.1	66.9	560
9/11/2019	Assessment	0.087	80.1	38.7	0.46	7.3	58.2	443
3/10/2020	Assessment	--	--	--	0.45	7.1	--	--
5/21/2020	Assessment	0.04 J1	82.4	37.9	0.46	7.7	51.0	428
11/13/2020	Assessment	0.04 J1	76.1	35.4	0.42	7.2	60.0	440
2/2/2021	Assessment	0.04 J1	78.4	35.5	0.45	6.8	56.9	424
5/26/2021	Assessment	0.035 J1	86.9	34.4	0.45	7.8	51.4	420
11/9/2021	Assessment	0.043 J1	77.3	33.3	0.41	6.7	58.8	390
2/15/2022	Assessment	0.048 J1	74.8	32.3	0.42	7.2	66.7	430
5/10/2022	Assessment	0.032 J1	80.8	33.4	0.42	7.3	66.3	440 L1
11/2/2022	Assessment	0.131	86.7	31.4	0.40	7.2	134	530
2/9/2023	Assessment	0.076	75.8	31.9	0.41	7.3	83.2	460
5/31/2023	Assessment	0.041 J1	60.8	31.6	0.39	5.8	75.2	460
11/1/2023	Assessment	0.060	77.4	31.7	0.42	6.8	73.8	450

Table 1. Groundwater Data Summary: MW-1603I
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/8/2016	Background	0.05 J1	13.0	81.1	< 0.005 U1	0.004 J1	0.3	1.36	0.593	0.39	0.117	< 0.0002 U1	< 0.002 U1	8.86	< 0.03 U1	0.03 J1
7/18/2016	Background	0.03 J1	12.8	83.1	< 0.005 U1	< 0.004 U1	0.8	1.30	1.821	0.43	0.053	0.013	< 0.002 U1	9.76	< 0.03 U1	0.02 J1
9/20/2016	Background	0.03 J1	12.2	94.2	< 0.005 U1	< 0.004 U1	0.1	1.41	0.904	0.39	0.008 J1	0.009	< 0.002 U1	9.85	0.04 J1	0.04 J1
11/15/2016	Background	0.04 J1	12.2	86.6	< 0.005 U1	0.007 J1	0.074	1.17	1.583	0.42	0.021	0.015	< 0.002 U1	9.21	< 0.03 U1	0.03 J1
1/9/2017	Background	0.03 J1	12.9	84.6	< 0.005 U1	< 0.004 U1	0.232	1.26	1.417	0.38	0.066	0.008	< 0.002 U1	9.47	< 0.03 U1	0.03 J1
3/7/2017	Background	0.03 J1	12.5	82.5	< 0.005 U1	< 0.004 U1	0.743	1.10	1.076	0.40	0.057	0.009	< 0.002 U1	8.79	0.05 J1	0.05 J1
5/8/2017	Background	0.05	13.0	76.8	0.020	0.02	0.145	1.24	0.824	0.40	0.174	0.009	0.005	8.86	0.1	0.050
7/17/2017	Background	0.03 J1	12.5	85.3	< 0.004 U1	< 0.005 U1	0.109	1.30	2.746	0.35	0.02 J1	0.013	< 0.002 U1	8.27	< 0.03 U1	0.05 J1
6/5/2018	Assessment	0.1	12.7	88.4	0.01 J1	0.02 J1	1.11	1.4	2.348	0.46	0.374	0.012	< 0.002 U1	7.31	0.07 J1	0.03 J1
8/13/2018	Assessment	0.03 J1	12.4	80.0	< 0.004 U1	< 0.005 U1	0.081	1.27	1.152	0.43	0.030	0.002	--	7.67	< 0.03 U1	0.04 J1
5/21/2019	Assessment	0.02 J1	12.9	81.6	< 0.02 U1	< 0.01 U1	0.08 J1	1.39	0.832	0.45	< 0.02 U1	< 0.009 U1	< 0.002 U1	6.45	< 0.03 U1	< 0.1 U1
6/27/2019	Assessment	0.07 J1	12.7	84.3	< 0.02 U1	0.01 J1	0.678	1.58	0.966	0.47	0.312	< 0.009 U1	< 0.002 U1	6.29	0.07 J1	< 0.1 U1
9/11/2019	Assessment	0.08 J1	13.2	83.0	< 0.02 U1	< 0.01 U1	0.355	1.36	1.41	0.46	0.2 J1	0.00711	< 0.002 U1	7.48	< 0.03 U1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	12.1	80.3	< 0.02 U1	< 0.01 U1	0.1 J1	1.23	1.056	0.45	< 0.05 U1	0.00720	< 0.002 U1	5.52	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	0.03 J1	15.5	89.5	< 0.02 U1	< 0.01 U1	0.09 J1	1.22	1.004	0.46	< 0.05 U1	0.00697	< 0.002 U1	5.08	< 0.03 U1	< 0.1 U1
11/13/2020	Assessment	0.32	53.0	107	0.03 J1	< 0.01 U1	0.286	1.19	1.959	0.42	0.564	0.00667	< 0.002 U1	5.29	0.07 J1	< 0.1 U1
2/2/2021	Assessment	0.03 J1	15.1	97.0	< 0.02 U1	< 0.01 U1	0.270	1.12	2.058	0.45	0.05 J1	0.00667	< 0.002 U1	5.01	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	0.03 J1	14	89.2	< 0.007 U1	< 0.004 U1	0.13 J1	1.03	0.88	0.45	< 0.05 U1	0.00623	< 0.002 U1	4.7	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.99	220	147	0.077	0.006 J1	0.47	3.49	1.27	0.41	1.54	0.00598	< 0.002 U1	6.2	0.28 J1	< 0.04 U1
2/15/2022	Assessment	0.20	37.9	97.7	0.016 J1	0.016 J1	0.46	1.16	2.26	0.42	0.29	0.00643	< 0.002 U1	5.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.04 J1	17.1	94.0	< 0.007 U1	< 0.004 U1	0.27	1.16	0.93	0.42	0.07 J1	0.00628	< 0.002 U1	5.3	< 0.09 U1	< 0.04 U1
11/2/2022	Assessment	< 0.02 U1	12.8	79.8	< 0.007 U1	< 0.004 U1	0.21	1.24	1.39	0.40	< 0.05 U1	0.00798	< 0.002 U1	6.5	< 0.09 U1	< 0.04 U1
2/9/2023	Assessment	0.05 J1	15.8	78.5	< 0.007 U1	< 0.004 U1	0.36	1.19	1.73	0.41	0.21	0.00713	< 0.002 U1	6.5	< 0.09 U1	< 0.04 U1
5/31/2023	Assessment	0.031 J1	11.6	64.0	< 0.007 U1	< 0.004 U1	0.24 J1	0.915	0.82	0.39	0.06 J1	0.00528	< 0.002 U1	5.5	< 0.04 U1	< 0.02 U1
11/1/2023	Assessment	0.070 J1	16.5	87.0	< 0.007 U1	0.006 J1	0.49	1.42	0.64	0.42	0.15 J1	0.00702	< 0.002 U1	7.7	0.05 J1	0.03 J1

Table 1. Groundwater Data Summary: MW-1603S
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/8/2016	Background	1.77	49.6	60.3	0.44	7.6	197	480
7/18/2016	Background	1.77	46.4	53.6	0.50	7.2	171	445
9/20/2016	Background	1.83	59.3	57.6	0.39	7.0	197	479
11/15/2016	Background	2.19	71.9	50.9	0.43	6.9	208	469
1/9/2017	Background	2.22	74.8	55.6	0.40	6.5	220	483
3/7/2017	Background	1.72	99.4	67.6	0.33	6.7	261	581
5/8/2017	Background	1.25	81.7	55.1	0.36	6.9	203	466
7/17/2017	Background	1.94	68.1	52.9	0.27	9.6	222	482
10/3/2017	Detection	1.84	51.5	20.8	0.17	6.9	75.1	481
12/12/2017	Detection	--	--	33.9	0.41	7.1	65.8	--
1/3/2018	Detection	1.67	--	--	--	7.5	218	514
6/5/2018	Assessment	1.4	42.2	54.3	0.63	7.0	178	504
8/13/2018	Assessment	1.70	52.0	69.7	0.56	7.0	243	558
5/21/2019	Assessment	1.47	62.6	56.0	0.55	6.6	187	506
6/27/2019	Assessment	1.65	67.2	57.8	0.59	7.3	205	530
9/11/2019	Assessment	2.16	55.1	51.1	0.69	7.1	224	482
3/10/2020	Assessment	--	--	--	0.71	6.5	--	--
5/21/2020	Assessment	0.826	47.5	31.1	0.77	7.4	88.3	276
11/13/2020	Assessment	2.35	39.1	37.6	0.92	7.0	131	365
2/2/2021	Assessment	2.49	40.4	41.9	0.91	6.6	137	406
5/25/2021	Assessment	2.06	33.4	23.0	1.02	7.0	82.8	250
11/9/2021	Assessment	1.87	42.0	43.9	0.94	6.4	145	410
2/15/2022	Assessment	1.85	42.4	59.1	0.98	6.9	197	500
5/10/2022	Assessment	1.59	81.9	36.9	0.81	7.1	296	600 L1
11/2/2022	Assessment	1.56	43.9	55.8	1.16	6.8	187	510
2/9/2023	Assessment	1.28	39.4	38.0	1.08	7.0	177	460
5/31/2023	Assessment	1.20	32.6	37.7	1.37	5.4	176	450
11/1/2023	Assessment	1.40	24.7	34.6	1.42	6.5	161	370

Table 1. Groundwater Data Summary: MW-1603S
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/8/2016	Background	0.04 J1	0.36	13.0	< 0.005 U1	0.02	0.2	0.648	0.485	0.44	0.171	< 0.0002 U1	< 0.002 U1	1.36	0.04 J1	0.02 J1
7/18/2016	Background	0.05 J1	0.27	12.5	< 0.005 U1	0.02	0.2	0.656	1.123	0.50	0.130	0.013	< 0.002 U1	0.74	< 0.03 U1	0.02 J1
9/20/2016	Background	0.04 J1	0.21	16.7	< 0.005 U1	0.02 J1	0.3	0.310	1.373	0.39	0.025	0.007	< 0.002 U1	0.50	0.7	0.04 J1
11/15/2016	Background	0.06	0.19	18.4	0.008 J1	0.03	0.104	0.233	0.508	0.43	0.072	0.013	< 0.002 U1	0.39	0.2	0.091
1/9/2017	Background	0.04 J1	0.20	16.2	< 0.005 U1	0.02 J1	0.653	0.176	0.391	0.40	0.023	0.002	< 0.002 U1	0.47	0.06 J1	0.02 J1
3/7/2017	Background	0.06	0.18	22.3	< 0.005 U1	0.06	0.530	0.092	0.2002	0.33	0.037	0.005	< 0.002 U1	0.23	0.2	0.02 J1
5/8/2017	Background	0.05	0.23	16.3	0.020	0.02	0.325	0.219	0.4136	0.36	0.116	0.006	0.005	0.15	0.2	0.050
7/17/2017	Background	0.04 J1	0.19	16.2	< 0.004 U1	0.03	0.154	0.349	2.9307	0.27	0.042	0.007	< 0.002 U1	0.20	0.06 J1	0.02 J1
6/5/2018	Assessment	0.06	0.36	12.4	0.01 J1	0.03	0.261	0.881	2.059	0.63	0.339	0.012	< 0.002 U1	2.74	0.1	0.03 J1
8/13/2018	Assessment	0.04 J1	0.20	10.5	0.01 J1	0.02	0.058	0.506	0.762	0.56	0.047	0.002	--	1.78	0.04 J1	0.054
5/21/2019	Assessment	0.03 J1	0.17	14.0	< 0.02 U1	0.02 J1	0.09 J1	0.417	0.5289	0.55	< 0.02 U1	< 0.009 U1	< 0.002 U1	< 0.4 U1	0.08 J1	< 0.1 U1
6/27/2019	Assessment	0.03 J1	0.17	13.7	< 0.02 U1	0.03 J1	0.06 J1	0.383	0.555	0.59	< 0.02 U1	< 0.009 U1	< 0.002 U1	0.5 J1	1.5	< 0.1 U1
9/11/2019	Assessment	0.04 J1	0.22	12.0	< 0.02 U1	0.02 J1	0.04 J1	0.266	0.172	0.69	< 0.05 U1	0.00414	< 0.002 U1	0.6 J1	0.3	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	0.13	10.4	< 0.02 U1	< 0.01 U1	0.335	0.055	0.4889	0.71	< 0.05 U1	0.00225	< 0.002 U1	< 0.4 U1	0.2 J1	< 0.1 U1
5/21/2020	Assessment	0.03 J1	0.11	7.53	< 0.02 U1	0.01 J1	0.325	0.04 J1	0.579	0.77	< 0.05 U1	0.00179	< 0.002 U1	< 0.4 U1	0.1 J1	< 0.1 U1
11/13/2020	Assessment	0.04 J1	0.17	9.07	< 0.02 U1	0.01 J1	0.208	0.297	0.6734	0.92	< 0.05 U1	0.00320	< 0.002 U1	< 0.4 U1	0.08 J1	< 0.1 U1
2/2/2021	Assessment	0.05 J1	0.20	11.8	< 0.02 U1	0.02 J1	0.230	0.324	0.5735	0.91	< 0.05 U1	0.00350	< 0.002 U1	0.4 J1	0.1 J1	< 0.1 U1
5/25/2021	Assessment	0.05 J1	0.13	4.82	< 0.007 U1	0.005 J1	0.18 J1	0.129	0.93	1.02	< 0.05 U1	0.00152	< 0.002 U1	0.2 J1	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.04 J1	0.19	10.7	< 0.007 U1	0.022	0.21	0.439	0.67	0.94	< 0.05 U1	0.00381	< 0.002 U1	0.4 J1	0.12 J1	< 0.04 U1
2/15/2022	Assessment	0.04 J1	0.19	10.6	< 0.007 U1	0.540	0.32	0.547	1.06	0.98	< 0.05 U1	0.00396	< 0.002 U1	0.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.04 J1	0.20	19.0	< 0.007 U1	0.037	0.29	0.389	1.13	0.81	< 0.05 U1	0.00499	< 0.002 U1	0.5	0.15 J1	< 0.04 U1
11/2/2022	Assessment	0.04 J1	0.18	8.82	< 0.007 U1	0.021	0.36	0.506	1.22	1.16	< 0.05 U1	0.00337	< 0.002 U1	0.3 J1	0.20 J1	< 0.04 U1
2/9/2023	Assessment	0.04 J1	0.20	8.27	< 0.007 U1	0.028	0.29	0.480	1.91	1.08	0.06 J1	0.00414	< 0.002 U1	0.7	0.74	< 0.04 U1
5/31/2023	Assessment	0.042 J1	0.18	6.78	< 0.007 U1	0.018 J1	0.20 J1	0.434	0.85	1.37	< 0.05 U1	0.00281	< 0.002 U1	0.5	0.52	< 0.02 U1
11/1/2023	Assessment	0.048 J1	0.15	4.48	< 0.007 U1	0.014 J1	0.31	0.384	0.12	1.42	< 0.05 U1	0.00201	< 0.002 U1	0.5	0.13 J1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1604D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.032	70.8	19.6	0.30	7.1	39.1	292
7/18/2016	Background	0.022	67.8	19.3	0.28	6.9	38.6	332
9/19/2016	Background	0.010	69.8	17.8	0.26	7.3	31.9	280
11/15/2016	Background	0.025	74.9	18.0	0.27	7.1	35.0	320
1/9/2017	Background	0.016	72.9	17.1	0.24	7.2	29.6	326
3/7/2017	Background	0.075	67.2	17.4	0.24	7.3	30.4	290
5/8/2017	Background	0.050	71.8	17.3	0.26	7.2	29.2	318
7/18/2017	Background	0.095	63.7	16.9	0.21	7.2	28.7	304
10/3/2017	Detection	0.075	62.7	16.5	0.24	7.3	28.7	318
12/13/2017	Detection	--	--	16.3	0.24	7.3	29.3	--
6/6/2018	Assessment	0.037	67.6	16.1	0.28	7.3	26.3	308
8/14/2018	Assessment	0.052	70.5	16.4	0.26	7.1	26.2	311
5/21/2019	Assessment	0.03 J1	69.3	16.1	0.27	7.2	27.4	309
6/26/2019	Assessment	0.03 J1	69.5	15.8	0.28	7.3	23.2	326
9/10/2019	Assessment	0.02 J1	74.7	15.9	0.28	7.3	24.7	326
3/11/2020	Assessment	--	--	--	0.26	7.1	--	--
5/21/2020	Assessment	0.02 J1	73.9	15.9	0.30	6.8	24.4	329
11/13/2020	Assessment	0.02 J1	68.4	15.1	0.27	6.4	20.9	306
2/3/2021	Assessment	< 0.02 U1	70.0	15.3	0.30	6.7	21.2	310
5/25/2021	Assessment	0.022 J1	71.5	15.2	0.30	7.6	20.6	310
11/9/2021	Assessment	0.021 J1	69.3	15.3	0.29	7.3	18.6	320
2/15/2022	Assessment	0.021 J1	67.8	15.2	0.27	6.7	19.8	310
5/11/2022	Assessment	0.013 J1	71.7	15.1	0.27	7.4	19.8	320
10/31/2022	Assessment	0.023 J1	69.4	15.4	0.26	7.0	19.0	310
2/9/2023	Assessment	0.021 J1	64.5	15.3	0.27	7.2	19.0	320
5/31/2023	Assessment	0.01 J1	59.1 M1	15.2	0.25	7.2	18.4	330
11/1/2023	Assessment	0.022 J1	68.6 M1	15.1	0.28	7.1	18.2	310

Table 1. Groundwater Data Summary: MW-1604D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.02 J1	14.6	216	< 0.005 U1	< 0.004 U1	0.2	0.119	0.374	0.30	0.098	0.002	< 0.002 U1	3.96	< 0.03 U1	< 0.01 U1
7/18/2016	Background	0.01 J1	17.9	239	< 0.005 U1	< 0.004 U1	0.2	0.086	0.8422	0.28	0.022	0.010	< 0.002 U1	3.33	0.04 J1	< 0.01 U1
9/19/2016	Background	0.01 J1	16.2	234	< 0.005 U1	< 0.004 U1	0.1	0.052	0.377	0.26	0.02 J1	0.004	< 0.002 U1	2.82	< 0.03 U1	< 0.01 U1
11/15/2016	Background	0.03 J1	16.7	247	< 0.005 U1	0.008 J1	0.117	0.047	0.454	0.27	0.02 J1	0.009	< 0.002 U1	2.80	< 0.03 U1	0.02 J1
1/9/2017	Background	0.02 J1	16.9	243	< 0.005 U1	0.007 J1	0.158	0.057	2.235	0.24	0.01 J1	< 0.0002 U1	< 0.002 U1	3.04	0.03 J1	0.095
3/7/2017	Background	0.02 J1	18.4	267	< 0.005 U1	< 0.004 U1	0.267	0.070	0.868	0.24	0.061	0.003	0.002 J1	3.20	0.06 J1	< 0.01 U1
5/8/2017	Background	0.05	18.1	226	0.020	0.02	0.128	0.091	0.744	0.26	0.043	0.004	0.005	2.90	0.1	0.050
7/18/2017	Background	0.02 J1	16.8	249	< 0.004 U1	< 0.005 U1	0.165	0.072	1.079	0.21	0.02 J1	0.002	< 0.002 U1	2.61	< 0.03 U1	< 0.01 U1
6/6/2018	Assessment	0.04 J1	22.1	266	0.004 J1	< 0.005 U1	0.057	0.117	0.942	0.28	0.034	0.007	< 0.002 U1	3.56	< 0.03 U1	< 0.01 U1
8/14/2018	Assessment	0.01 J1	16.6	237	< 0.004 U1	< 0.005 U1	0.04 J1	0.059	0.617	0.26	0.005 J1	< 0.0002 U1	--	2.50	< 0.03 U1	0.01 J1
5/21/2019	Assessment	< 0.02 U1	18.3	235	< 0.02 U1	< 0.01 U1	0.04 J1	0.051	0.771	0.27	0.06 J1	< 0.009 U1	< 0.002 U1	2.52	< 0.03 U1	< 0.1 U1
6/26/2019	Assessment	< 0.02 U1	18.2	263	< 0.02 U1	< 0.01 U1	0.06 J1	0.067	1.164	0.28	0.04 J1	< 0.009 U1	< 0.002 U1	2.58	< 0.03 U1	< 0.1 U1
9/10/2019	Assessment	< 0.02 U1	18.0	257	< 0.02 U1	< 0.01 U1	0.09 J1	0.052	0.859	0.28	< 0.05 U1	0.00157	< 0.002 U1	2.70	< 0.03 U1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	17.8	228	< 0.02 U1	< 0.01 U1	0.09 J1	0.052	1.017	0.26	< 0.05 U1	0.00139	< 0.002 U1	2.22	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	17.9	242	< 0.02 U1	< 0.01 U1	0.2 J1	0.05 J1	1.07	0.30	< 0.05 U1	0.00140	< 0.002 U1	2.35	< 0.03 U1	< 0.1 U1
11/13/2020	Assessment	< 0.02 U1	18.2	250	< 0.02 U1	< 0.01 U1	0.1 J1	0.05 J1	1.853	0.27	< 0.05 U1	0.00154	< 0.002 U1	2.54	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	18.5	257	< 0.02 U1	< 0.01 U1	0.2 J1	0.055	1.899	0.30	< 0.05 U1	0.00138	< 0.002 U1	2.55	< 0.03 U1	< 0.1 U1
5/25/2021	Assessment	< 0.02 U1	18.5	269 M1, P3	< 0.007 U1	< 0.004 U1	0.05 J1	0.046	1.11	0.30	< 0.05 U1	0.00131	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	< 0.02 U1	18.3	267	< 0.007 U1	< 0.004 U1	0.20	0.049	1.43	0.29	< 0.05 U1	0.00148	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	< 0.02 U1	17.8	254	< 0.007 U1	< 0.004 U1	0.25	0.051	0.92	0.27	< 0.05 U1	0.00136	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	< 0.02 U1	18.6	259	< 0.007 U1	< 0.004 U1	0.30	0.057	1.31	0.27	< 0.05 U1	0.00138	< 0.002 U1	2.6	< 0.09 U1	< 0.04 U1
10/31/2022	Assessment	< 0.02 U1	18.2	273	< 0.007 U1	< 0.004 U1	0.26	0.071	1.20	0.26	0.12 J1	0.00154	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1
2/9/2023	Assessment	< 0.02 U1	16.9	257	< 0.007 U1	0.008 J1	0.28	0.058	1.19	0.27	< 0.05 U1	0.00156	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1
5/31/2023	Assessment	< 0.008 U1	15.8	231 M1	< 0.007 U1	< 0.004 U1	0.17 J1	0.048	0.67	0.25	< 0.05 U1	0.00126	< 0.002 U1	2.4	< 0.04 U1	< 0.02 U1
11/1/2023	Assessment	0.018 J1	17.8	285 M1	< 0.007 U1	0.013 J1	0.25 J1	0.064	0.57	0.28	0.05 J1	0.00144	< 0.002 U1	2.7	< 0.04 U1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1604I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.111	76.5	50.4	0.34	7.1	138	530
7/18/2016	Background	0.185	79.7	53.6	0.33	7.4	152	548
9/19/2016	Background	0.320	73.1	46.5	0.29	7.5	120	504
11/15/2016	Background	0.368	78.7	46.2	0.32	7.3	130	521
1/9/2017	Background	0.241	72.4	39.5	0.31	7.5	99.8	456
3/7/2017	Background	0.252	68.7	41.6	0.31	7.4	104	448
5/9/2017	Background	0.363	81.3	53.4	0.34	7.5	139	546
7/18/2017	Background	0.379	73.5	49.3	0.27	7.3	139	522
10/3/2017	Detection	0.442	69.5	45.2	0.30	7.5	129	502
12/12/2017	Detection	--	--	45.6	0.32	7.5	132	--
1/4/2018	Detection	0.385	--	--	--	7.9	119	504
6/6/2018	Assessment	0.188	62.9	39.4	0.37	7.6	95.4	442
8/14/2018	Assessment	0.193	73.8	43.7	0.33	7.4	112	487
5/21/2019	Assessment	0.254	78.2	70.1	0.34	7.3	181	618
6/27/2019	Assessment	0.278	75.2	63.5	0.38	7.5	167	622
9/11/2019	Assessment	0.269	71.5	43.6	0.35	7.4	127	515
3/10/2020	Assessment	--	--	--	0.35	7.2	--	--
5/21/2020	Assessment	0.324	68.1	43.9	0.40	7.8	118	496
11/13/2020	Assessment	0.298	66.3	38.0	0.35	6.4	94.4	439
2/3/2021	Assessment	0.145	56.6	29.6	0.39	6.9	52.0	351
5/25/2021	Assessment	0.108	59.4	32.4	0.40	7.3	68.6	380
11/9/2021	Assessment	0.079	56.9	35.7	0.40	7.5	77.2	400
2/15/2022	Assessment	0.118	60.5	37.8	0.37	7.1	86.6	420
5/11/2022	Assessment	0.092	64.0	39.2	0.38	7.5	81.8	400
11/1/2022	Assessment	0.066	63.4	39.4	0.36	7.3	94.4	420
2/9/2023	Assessment	0.065	57.2	34.7	0.38	7.3	70.2	380
5/31/2023	Assessment	0.102	56.7	--	--	7.3	--	--
6/6/2023	Assessment	--	--	38.4	0.35	7.2	95.7	420
10/31/2023	Assessment	0.065	55.1	33.0	0.36	7.2	66.2	380

Table 1. Groundwater Data Summary: MW-1604I
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.02 J1	19.5	124	< 0.005 U1	0.12	0.1	0.893	1.118	0.34	0.02 J1	0.004	< 0.002 U1	2.59	0.03 J1	0.01 J1
7/18/2016	Background	0.02 J1	19.1	132	< 0.005 U1	< 0.004 U1	0.4	0.875	1.299	0.33	0.02 J1	0.011	< 0.002 U1	2.48	< 0.03 U1	0.01 J1
9/19/2016	Background	0.03 J1	20.4	123	< 0.005 U1	< 0.004 U1	0.4	0.742	0.624	0.29	0.02 J1	0.008	< 0.002 U1	2.87	0.07 J1	0.078
11/15/2016	Background	0.04 J1	19.4	123	< 0.005 U1	0.009 J1	0.153	0.704	1.664	0.32	0.045	0.015	< 0.002 U1	2.49	< 0.03 U1	0.02 J1
1/9/2017	Background	0.02 J1	20.2	114	< 0.005 U1	< 0.004 U1	0.114	0.696	1.455	0.31	0.01 J1	0.003	< 0.002 U1	2.84	< 0.03 U1	0.02 J1
3/7/2017	Background	0.02 J1	20.0	117	< 0.005 U1	< 0.004 U1	0.573	0.743	0.671	0.31	0.024	0.009	< 0.002 U1	3.08	0.05 J1	0.02 J1
5/9/2017	Background	0.06	26.4	125	0.020	0.02	0.112	1.03	0.844	0.34	0.043	0.013	0.005	3.02	0.1	0.050
7/18/2017	Background	0.24	19.0	130	< 0.004 U1	0.005 J1	0.208	0.877	1.059	0.27	0.093	0.009	< 0.002 U1	2.75	< 0.03 U1	0.02 J1
6/6/2018	Assessment	0.03 J1	18.7	107	0.004 J1	< 0.005 U1	0.05 J1	0.792	1.089	0.37	0.01 J1	0.012	< 0.002 U1	3	0.03 J1	0.02 J1
8/14/2018	Assessment	0.03 J1	18.5	110	< 0.004 U1	< 0.005 U1	0.075	0.737	0.183	0.33	0.007 J1	0.004	--	2.50	< 0.03 U1	0.052
5/21/2019	Assessment	0.02 J1	21.2	151	< 0.02 U1	< 0.01 U1	0.05 J1	1.03	1.458	0.34	< 0.02 U1	0.01 J1	< 0.002 U1	2.54	0.1 J1	< 0.1 U1
6/27/2019	Assessment	0.02 J1	18.5	135	< 0.02 U1	< 0.01 U1	0.09 J1	0.979	0.888	0.38	< 0.02 U1	< 0.009 U1	< 0.002 U1	2.51	0.1 J1	< 0.1 U1
9/11/2019	Assessment	0.03 J1	20.7	119	< 0.02 U1	< 0.01 U1	0.1 J1	0.735	0.819	0.35	< 0.05 U1	0.00772	< 0.002 U1	2.26	0.05 J1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	17.5	96.7	< 0.02 U1	< 0.01 U1	0.09 J1	0.831	1.000	0.35	< 0.05 U1	0.00775	< 0.002 U1	2.10	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	0.02 J1	18.7	102	< 0.02 U1	< 0.01 U1	0.09 J1	0.763	1.320	0.40	< 0.05 U1	0.00714	< 0.002 U1	2.19	0.07 J1	< 0.1 U1
11/13/2020	Assessment	0.02 J1	27.9	101	< 0.02 U1	< 0.01 U1	0.2 J1	0.630	1.186	0.35	< 0.05 U1	0.00674	< 0.002 U1	2.19	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	0.02 J1	24.4	83.3	< 0.02 U1	< 0.01 U1	0.235	0.460	1.423	0.39	< 0.05 U1	0.00555	< 0.002 U1	2.34	< 0.03 U1	< 0.1 U1
5/25/2021	Assessment	0.09 J1	22.1	88.9	< 0.007 U1	< 0.004 U1	0.08 J1	0.497	0.90	0.40	< 0.05 U1	0.00568	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.17	56.7	102	0.025 J1	0.005 J1	0.53	0.478	2.41	0.40	0.17 J1	0.00539	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	< 0.02 U1	19.5	88.8	< 0.007 U1	< 0.004 U1	0.27	0.600	2.12	0.37	< 0.05 U1	0.00626	< 0.002 U1	2.1	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	0.05 J1	28.3	92.4	< 0.007 U1	0.004 J1	0.42	0.674	3.74	0.38	0.06 J1	0.00547	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	0.02 J1	19.7	94.2	< 0.007 U1	< 0.004 U1	0.25	0.597	1.36	0.36	0.07 J1	0.00613	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
2/9/2023	Assessment	0.02 J1	18.9	83.6	< 0.007 U1	< 0.004 U1	0.30	0.528	0.82	0.38	< 0.05 U1	0.00571	< 0.002 U1	2.1	< 0.09 U1	< 0.04 U1
5/31/2023	Assessment	0.031 J1	16.7	90.9	< 0.007 U1	0.007 J1	0.19 J1	0.509	2.04	--	< 0.05 U1	0.00552	< 0.002 U1	1.8	< 0.04 U1	< 0.02 U1
6/6/2023	Assessment	--	--	--	--	--	--	--	--	0.35	--	--	--	--	--	--
10/31/2023	Assessment	0.043 J1	19.3	83.1	< 0.007 U1	0.013 J1	0.43	0.522	1.47	0.36	0.06 J1	0.00506	< 0.002 U1	2.0	< 0.04 U1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1604S
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.653	84.5	62.6	0.89	7.2	187	532
7/20/2016	Background	0.530	79.8	60.8	0.88	7.3	186	526
9/19/2016	Background	0.650	68.1	50.3	0.92	7.5	141	456
11/15/2016	Background	0.736	82.9	58.3	0.83	--	165	533
1/9/2017	Background	0.721	83.9	63.5	0.91	7.4	173	535
3/7/2017	Background	0.725	79.1	64.1	0.94	7.5	170	528
5/8/2017	Background	0.554	111	88.0	0.81	7.5	251	672
5/18/2017	Background	--	--	--	--	7.3	--	--
7/17/2017	Background	0.473	98.6	76.0	0.76	7.3	234	657
10/3/2017	Detection	0.562	67.8	55.3	0.87	7.7	123	462
12/12/2017	Detection	--	--	53.9	0.97	7.7	112	--
1/4/2018	Detection	0.778	--	54.5	1.02	8.0	104	--
6/6/2018	Assessment	0.521	72.5	53.7	1.04	7.7	134	474
8/14/2018	Assessment	0.582	92.6	73.0	0.90	7.4	187	583
5/20/2019	Assessment	0.451	80.4	57.2	0.99	7.5	179	572
6/26/2019	Assessment	0.667	75.8	81.4	0.91	7.5	246	718
9/10/2019	Assessment	0.802	53.1	57.6	1.63	7.5	134	506
3/10/2020	Assessment	--	--	--	1.05	7.4	--	--
5/21/2020	Assessment	0.544	50.2	40.2	1.26	8.1	99.7	405
11/13/2020	Assessment	0.559	59.5	58.6	1.03	6.5	93.8	428
2/3/2021	Assessment	0.639	66.0	63.6	1.04	7.1	93.8	445
5/25/2021	Assessment	0.526	52.1	47.9	1.07	9.1	83.6	380
11/9/2021	Assessment	0.564	65.9	70.0	0.92	6.9	92.7	470
2/15/2022	Assessment	0.738	81.4	89.1	0.90	7.3	128	570
5/11/2022	Assessment	0.665	81.6	76.3	0.90	7.5	131	520
10/31/2022	Assessment	0.773	87.5	81.1	0.82	7.2	148	590
2/8/2023	Assessment	0.782	80.3	62.7	0.88	7.5	136	540
5/31/2023	Assessment	0.672	76.1	--	--	7.4	--	--
6/6/2023	Assessment	--	--	55.7	0.90	7.4	128	520
10/31/2023	Assessment	0.679	72.6	41.5	0.84	7.3	125	490

Table 1. Groundwater Data Summary: MW-1604S
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.06	0.41	19.2	0.007 J1	0.02	0.2	0.548	0.3437	0.89	0.315	0.011	< 0.002 U1	2.57	0.07 J1	0.02 J1
7/20/2016	Background	0.13	0.76	21.7	0.059	0.09	0.6	0.955	0.9695	0.88	0.911	0.006	< 0.002 U1	2.33	0.2	0.057
9/19/2016	Background	0.06	0.24	13.3	< 0.005 U1	0.01 J1	0.5	0.325	1.126	0.92	0.060	0.008	< 0.002 U1	2.51	0.07 J1	0.05 J1
11/15/2016	Background	0.07	0.24	18.5	0.005 J1	0.03	0.081	0.326	0.377	0.83	0.045	0.014	< 0.002 U1	4.79	0.05 J1	0.096
1/9/2017	Background	0.06	0.31	17.3	< 0.005 U1	0.02 J1	0.701	0.338	1.629	0.91	0.02 J1	0.013	< 0.002 U1	2.59	0.06 J1	0.04 J1
3/7/2017	Background	0.05	0.20	16.0	< 0.005 U1	0.01 J1	0.326	0.321	0.151	0.94	0.027	0.013	< 0.002 U1	2.61	0.07 J1	0.03 J1
5/8/2017	Background	0.07	0.30	18.8	0.020	0.02	0.079	0.355	0.579	0.81	0.050	0.018	0.005	2.16	0.1	0.050
7/17/2017	Background	0.07	0.24	20.7	< 0.004 U1	0.02 J1	0.136	0.285	0.731	0.76	0.064	0.014	< 0.002 U1	1.88	0.03 J1	0.02 J1
6/6/2018	Assessment	0.06	0.2	14.1	< 0.004 U1	0.02 J1	0.056	0.407	1.058	1.04	0.04	0.014	< 0.002 U1	2.5	0.05 J1	0.02 J1
8/14/2018	Assessment	0.05 J1	0.20	16.3	< 0.004 U1	0.02 J1	0.088	0.365	0.444	0.90	0.009 J1	0.009	--	2.21	0.2	0.03 J1
5/20/2019	Assessment	0.06 J1	0.18	18.8	< 0.02 U1	0.03 J1	0.219	0.352	0.677	0.99	0.03 J1	< 0.009 U1	< 0.002 U1	2.29	0.07 J1	< 0.1 U1
6/26/2019	Assessment	0.04 J1	0.47	46.1	< 0.02 U1	0.02 J1	0.1 J1	1.13	0.565	0.91	0.122	0.01 J1	< 0.002 U1	1 J1	0.2	< 0.1 U1
9/10/2019	Assessment	0.06 J1	0.26	12.0	< 0.02 U1	0.02 J1	0.202	0.207	0.115	1.63	< 0.05 U1	0.00913	< 0.002 U1	4.72	0.1 J1	< 0.1 U1
3/10/2020	Assessment	0.02 J1	0.18	13.0	< 0.02 U1	0.02 J1	0.1 J1	0.384	0.941	1.05	< 0.05 U1	0.00972	< 0.002 U1	2.90	0.07 J1	< 0.1 U1
5/21/2020	Assessment	0.06 J1	0.20	12.9	< 0.02 U1	0.02 J1	0.1 J1	0.297	0.996	1.26	< 0.05 U1	0.00689	< 0.002 U1	3.09	0.1 J1	< 0.1 U1
11/13/2020	Assessment	0.08 J1	0.17	10.5	< 0.02 U1	0.03 J1	0.2 J1	0.285	0.2723	1.03	< 0.05 U1	0.00868	< 0.002 U1	2.94	0.09 J1	< 0.1 U1
2/3/2021	Assessment	0.06 J1	0.18	11.5	< 0.02 U1	0.03 J1	0.1 J1	0.355	2.752	1.04	< 0.05 U1	0.00902	< 0.002 U1	3.10	0.07 J1	< 0.1 U1
5/25/2021	Assessment	0.07 J1	0.17	10.1	< 0.007 U1	0.031	0.14 J1	0.27	0.35	1.07	< 0.05 U1	0.00777	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.05 J1	0.20	11.7	< 0.007 U1	0.018 J1	0.24	0.271	1.12	0.92	< 0.05 U1	0.00870	< 0.002 U1	2.9	0.13 J1	< 0.04 U1
2/15/2022	Assessment	0.05 J1	0.19	13.9	< 0.007 U1	0.023	0.39	0.342	0.19	0.90	< 0.05 U1	0.0100	< 0.002 U1	3.0	0.18 J1	< 0.04 U1
5/11/2022	Assessment	0.05 J1	0.17	13.2	< 0.007 U1	0.024	0.32	0.327	0.62	0.90	< 0.05 U1	0.0102	< 0.002 U1	3.1	0.13 J1	< 0.04 U1
10/31/2022	Assessment	0.05 J1	0.17	17.2	< 0.007 U1	0.033	0.19 J1	0.295	0.46	0.82	< 0.05 U1	0.0110	< 0.002 U1	3.1	0.16 J1	< 0.04 U1
2/8/2023	Assessment	0.05 J1	0.16	16.5	< 0.007 U1	0.021	0.25	0.272	0.79	0.88	< 0.05 U1	0.0118	< 0.002 U1	3.6	0.09 J1	< 0.04 U1
5/31/2023	Assessment	0.051 J1	0.15	15.1	< 0.007 U1	0.024	0.19 J1	0.269	0.39	--	< 0.05 U1	0.0110	< 0.002 U1	3.3	0.11 J1	0.02 J1
6/6/2023	Assessment	--	--	--	--	--	--	--	--	0.90	--	--	--	--	--	--
10/31/2023	Assessment	0.051 J1	0.15	14.7	< 0.007 U1	0.026	0.25 J1	0.222	1.44	0.84	< 0.05 U1	0.0112	< 0.002 U1	3.5	0.06 J1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1605D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.027	81.7	31.9	0.25	7.1	59.7	406
7/18/2016	Background	0.021	85.7	31.5	0.22	7.2	61.6	408
9/19/2016	Background	0.002 J1	84.2	29.8	0.19	7.1	54.1	370
11/16/2016	Background	0.021	93.9	28.8	0.21	7.1	56.2	400
1/10/2017	Background	0.014	89.9	27.4	0.21	7.3	55.1	794
1/11/2017	Background	--	--	--	--	7.2	--	--
3/7/2017	Background	0.045	88.5	29.4	0.19	7.2	58.4	386
5/9/2017	Background	0.021	90.1	29.2	0.19	6.9	58.5	400
7/18/2017	Background	0.025	84.6	28.6	0.17	9.5	59.1	416
10/3/2017	Detection	0.022	83.1	26.4	0.18	7.1	56.8	390
12/11/2017	Detection	--	--	25.8	0.19	7.2	56.4	--
6/6/2018	Assessment	0.03	81.5	24.2	0.16	7.3	49.2	388
8/15/2018	Assessment	0.024	88.6	23.8	0.23	7.1	48.7	379
5/24/2019	Assessment	0.02 J1	75.7	22.1	0.24	6.9	38.9	364
6/25/2019	Assessment	< 0.02 U1	82.1	22.1	0.21	7.3	40.3	379
9/12/2019	Assessment	< 0.02 U1	84.0	23.7	0.22	7.0	45.1	388
3/9/2020	Assessment	--	--	--	0.20	7.0	--	--
5/20/2020	Assessment	< 0.02 U1	85.0	25.1	0.23	6.9	45.9	382
11/13/2020	Assessment	< 0.02 U1	76.6	24.4	0.21	7.0	43.2	367
2/4/2021	Assessment	< 0.02 U1	79.0	25.0	0.24	6.8	43.1	369
5/25/2021	Assessment	0.017 J1	76.8	23.8	0.23	8.9	41.0	360
11/10/2021	Assessment	0.014 J1	76.0	23.3	0.22	7.4	37.8	370
2/15/2022	Assessment	0.016 J1	75.9	23.5	0.21	7.1	39.1	350
5/11/2022	Assessment	< 0.009 U1	78.6 M1, P3	23.2	0.21	7.3	39.4	350
11/1/2022	Assessment	0.017 J1	75.6	24.1	0.20	7.2	38.3	350
2/8/2023	Assessment	0.014 J1	72.8	25.3	0.20	7.2	41.1	350
5/30/2023	Assessment	0.016 J1	69.5	24.5	0.20	6.8	40.6	350
10/31/2023	Assessment	0.016 J1	70.2	24.5	0.20	6.6	39.7	360

Table 1. Groundwater Data Summary: MW-1605D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.02 J1	17.5	400	< 0.005 U1	< 0.004 U1	0.2	0.284	1.094	0.25	0.051	0.004	< 0.002 U1	7.65	0.03 J1	< 0.01 U1
7/18/2016	Background	0.01 J1	17.4	434	< 0.005 U1	< 0.004 U1	0.3	0.170	1.666	0.22	0.051	0.005	< 0.002 U1	3.19	< 0.03 U1	< 0.01 U1
9/19/2016	Background	0.01 J1	18.1	488	< 0.005 U1	< 0.004 U1	0.3	0.118	0.873	0.19	0.009 J1	0.006	< 0.002 U1	2.72	< 0.03 U1	< 0.01 U1
11/16/2016	Background	0.01 J1	18.6	453	< 0.005 U1	< 0.004 U1	0.259	0.097	1.371	0.21	0.008 J1	0.006	< 0.002 U1	2.21	< 0.03 U1	0.01 J1
1/10/2017	Background	0.01 J1	19.0	430	< 0.005 U1	< 0.004 U1	0.128	0.086	1.589	0.21	< 0.004 U1	0.004	< 0.002 U1	2.21	< 0.03 U1	< 0.01 U1
3/7/2017	Background	0.02 J1	19.1	490	< 0.005 U1	0.006 J1	0.322	0.107	1.104	0.19	0.045	0.006	< 0.002 U1	2.44	0.03 J1	< 0.01 U1
5/9/2017	Background	0.05	18.3	420	0.020	0.02	0.131	0.108	0.4527	0.19	0.037	0.003	0.005	2.08	0.1	0.050
7/18/2017	Background	0.02 J1	17.9	457	< 0.004 U1	< 0.005 U1	0.119	0.111	1.657	0.17	0.009 J1	0.005	< 0.002 U1	1.98	< 0.03 U1	0.03 J1
6/6/2018	Assessment	0.02 J1	18.2	382	0.01 J1	< 0.005 U1	0.272	0.188	1.978	0.16	0.273	0.007	< 0.002 U1	1.97	0.04 J1	< 0.01 U1
8/15/2018	Assessment	0.01 J1	20.3	443	< 0.004 U1	< 0.005 U1	0.077	0.079	0.605	0.23	0.035	0.003	--	1.94	< 0.03 U1	< 0.01 U1
5/24/2019	Assessment	0.05 J1	13.9	385	< 0.02 U1	< 0.01 U1	0.06 J1	0.255	1.116	0.24	< 0.02 U1	< 0.009 U1	< 0.002 U1	2.60	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	18.3	365	< 0.02 U1	< 0.01 U1	0.2 J1	0.104	0.655	0.21	0.05 J1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
9/12/2019	Assessment	< 0.02 U1	21.2	471	< 0.02 U1	< 0.01 U1	0.652	0.084	0.896	0.22	< 0.05 U1	0.00176	< 0.002 U1	2.08	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	< 0.02 U1	19.9	448	< 0.02 U1	< 0.01 U1	0.1 J1	0.069	1.802	0.20	< 0.05 U1	0.00178	< 0.002 U1	2 J1	0.04 J1	< 0.1 U1
5/20/2020	Assessment	< 0.02 U1	20.7	436	< 0.02 U1	< 0.01 U1	0.1 J1	0.074	2.158	0.23	< 0.05 U1	0.00180	< 0.002 U1	2.05	0.05 J1	< 0.1 U1
11/13/2020	Assessment	< 0.02 U1	21.1	445	< 0.02 U1	< 0.01 U1	0.2 J1	0.060	1.119	0.21	< 0.05 U1	0.00156	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
2/4/2021	Assessment	< 0.02 U1	21.5	457	< 0.02 U1	< 0.01 U1	0.226	0.054	1.102	0.24	< 0.05 U1	0.00161	< 0.002 U1	2 J1	0.04 J1	< 0.1 U1
5/25/2021	Assessment	0.04 J1	20.9	445	< 0.007 U1	0.006 J1	0.08 J1	0.053	1.03	0.23	< 0.05 U1	0.00153	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	21.3	450	< 0.007 U1	< 0.004 U1	0.27	0.057	1.17	0.22	< 0.05 U1	0.00154	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	< 0.02 U1	22.3	440	< 0.007 U1	< 0.004 U1	0.34	0.052	0.90	0.21	< 0.05 U1	0.00156	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	< 0.02 U1	23.3	460 M1, P3	< 0.007 U1	< 0.004 U1	0.20	0.060	0.81	0.21	< 0.05 U1	0.00149	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	21.8	453	< 0.007 U1	< 0.004 U1	0.19 J1	0.029	2.10	0.20	< 0.05 U1	0.00153	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
2/8/2023	Assessment	< 0.02 U1	20.6	439	0.043 J1	0.005 J1	0.23	0.065	1.18	0.20	< 0.05 U1	0.00156	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
5/30/2023	Assessment	0.016 J1	18.6	402	< 0.007 U1	< 0.004 U1	0.18 J1	0.046	1.37	0.20	< 0.05 U1	0.00152	< 0.002 U1	1.8	< 0.04 U1	< 0.02 U1
10/31/2023	Assessment	0.016 J1	19.3	431	< 0.007 U1	< 0.004 U1	0.29 J1	0.056	1.94	0.20	0.05 J1	0.00141	< 0.002 U1	1.8	< 0.04 U1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1605I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.027	89.5	45.6	0.21	7.0	130	522
7/19/2016	Background	0.027	92.5	46.8	0.22	7.3	135	544
9/19/2016	Background	0.020	97.9	45.6	0.18	7.3	140	548
11/16/2016	Background	0.034	103	44.4	0.19	7.1	140	567
1/10/2017	Background	0.020	91.3	43.5	0.19	7.2	119	534
3/7/2017	Background	0.046	81.9	44.7	0.17	7.3	115	474
5/9/2017	Background	0.043	93.5	41.8	0.19	7.0	115	508
7/18/2017	Background	0.036	79.9	39.7	0.1 J1	7.0	116	488
10/3/2017	Detection	0.041	82.5	40.7	0.19	7.2	120	494
12/11/2017	Detection	--	--	41.3	0.18	7.3	135	--
1/4/2018	Detection	--	--	--	--	7.6	144	536
6/6/2018	Assessment	0.129	79.2	39.1	0.16	7.3	120	500
8/15/2018	Assessment	0.158	83.4	38.0	0.23	7.3	114	483
5/24/2019	Assessment	0.08 J1	73.8	36.8	0.23	7.3	89.2	443
6/25/2019	Assessment	0.126	83.4	38.3	0.21	7.4	104	471
9/12/2019	Assessment	0.199	89.4	41.7	0.20	7.4	128	524
3/10/2020	Assessment	--	--	--	0.21	7.1	--	--
5/20/2020	Assessment	0.097	90.1	37.8	0.23	6.9	109	476
11/13/2020	Assessment	0.060	73.3	32.8	0.21	7.1	86.2	429
2/4/2021	Assessment	0.04 J1	74.2	32.9	0.24	6.9	85.1	424
5/26/2021	Assessment	0.039 J1	80.4	35.6	0.24	9.5	97.2	450
11/10/2021	Assessment	0.040 J1	81.1	36.3	0.21	7.5	106	470
2/15/2022	Assessment	0.060	77.4	36.2	0.21	7.2	108	440
5/11/2022	Assessment	0.056	76.5	37.1	0.22	7.4	106	450
11/1/2022	Assessment	0.059	76.0	35.7	0.21	7.2	104	470
2/8/2023	Assessment	0.046 J1	76.0	35.0	0.21	7.3	109	450
5/30/2023	Assessment	0.069	60.6	32.4	0.20	6.6	102	450
10/31/2023	Assessment	0.063	69.2	30.4	0.21	7.2	89.1	430

Table 1. Groundwater Data Summary: MW-1605I
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.02 J1	17.3	151	< 0.005 U1	< 0.004 U1	0.2	1.67	1.219	0.21	0.122	0.004	< 0.002 U1	1.42	0.03 J1	0.02 J1
7/19/2016	Background	0.03 J1	20.1	178	< 0.005 U1	< 0.004 U1	1.2	1.79	2.288	0.22	0.032	0.005	< 0.002 U1	1.39	0.07 J1	0.02 J1
9/19/2016	Background	0.04 J1	19.5	180	< 0.005 U1	0.005 J1	0.2	1.66	2.171	0.18	0.160	0.008	< 0.002 U1	1.23	< 0.03 U1	0.03 J1
11/16/2016	Background	0.04 J1	18.0	168	< 0.005 U1	0.008 J1	0.091	1.58	1.912	0.19	0.079	0.017	< 0.002 U1	1.07	< 0.03 U1	0.03 J1
1/10/2017	Background	0.03 J1	18.5	161	< 0.005 U1	< 0.004 U1	0.110	1.52	1.823	0.19	0.02 J1	0.004	< 0.002 U1	1.43	0.04 J1	0.183
3/7/2017	Background	0.03 J1	18.6	156	< 0.005 U1	0.008 J1	0.214	1.48	1.721	0.17	0.063	0.007	< 0.002 U1	1.33	0.04 J1	0.03 J1
5/9/2017	Background	0.05	20.1	148	0.020	0.02	0.137	1.56	1.139	0.19	0.037	0.010	0.005	1.18	0.1	0.050
7/18/2017	Background	0.05 J1	26.2	153	< 0.004 U1	< 0.005 U1	0.104	1.49	2.173	0.1 J1	0.137	0.010	< 0.002 U1	1.16	< 0.03 U1	0.03 J1
6/6/2018	Assessment	0.03 J1	17	135	0.004 J1	< 0.005 U1	0.04 J1	1.47	2.27	0.16	0.184	0.011	< 0.002 U1	1.06	< 0.03 U1	0.04 J1
8/15/2018	Assessment	0.03 J1	18.8	149	0.004 J1	< 0.005 U1	0.116	1.45	1.167	0.23	0.095	0.005	--	1.12	< 0.03 U1	0.04 J1
5/24/2019	Assessment	0.04 J1	25.3	157	< 0.02 U1	< 0.01 U1	0.07 J1	1.12	1.054	0.23	0.04 J1	0.01 J1	< 0.002 U1	1 J1	0.04 J1	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	17.8	134	< 0.1 U1	< 0.05 U1	< 0.2 U1	1.29	2.118	0.21	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	< 0.2 U1	< 0.5 U1
9/12/2019	Assessment	0.05 J1	22.3	154	< 0.02 U1	< 0.01 U1	0.1 J1	1.42	1.679	0.20	0.1 J1	0.00628	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	25.7	149	< 0.02 U1	< 0.01 U1	0.1 J1	1.12	1.641	0.21	< 0.05 U1	0.00517	< 0.002 U1	1 J1	0.04 J1	< 0.1 U1
5/20/2020	Assessment	0.16	54.2	139	< 0.02 U1	< 0.01 U1	0.227	1.26	1.169	0.23	0.2 J1	0.00520	< 0.002 U1	1 J1	0.06 J1	< 0.1 U1
11/13/2020	Assessment	0.09 J1	28.1	126	< 0.02 U1	< 0.01 U1	0.232	1.24	1.672	0.21	0.2 J1	0.00513	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
2/4/2021	Assessment	0.04 J1	20.0	127	< 0.02 U1	< 0.01 U1	0.2 J1	1.12	1.611	0.24	0.06 J1	0.00497	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	0.06 J1	20.1	136	< 0.007 U1	< 0.004 U1	0.12 J1	1.13	1.36	0.24	< 0.05 U1	0.00482	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	0.03 J1	17.5	120	< 0.007 U1	0.023	0.27	1.32	2.54	0.21	0.26	0.00518	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.03 J1	18.5	120	< 0.007 U1	0.004 J1	0.29	1.27	3.18	0.21	0.06 J1	0.00479	< 0.002 U1	1.4	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	0.03 J1	19.2	121	< 0.007 U1	0.005 J1	0.31	1.24	1.37	0.22	0.06 J1	0.00471	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	0.06 J1	21.2	128	< 0.007 U1	0.006 J1	0.22	1.18	1.17	0.21	0.14 J1	0.00507	< 0.002 U1	1.3	< 0.09 U1	0.04 J1
2/8/2023	Assessment	0.05 J1	19.0	127	< 0.007 U1	0.006 J1	0.27	1.28	1.86	0.21	0.13 J1	0.00528	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
5/30/2023	Assessment	0.024 J1	14.0	105	< 0.007 U1	< 0.004 U1	0.16 J1	0.908	1.99	0.20	< 0.05 U1	0.00463	< 0.002 U1	1.1	< 0.04 U1	0.02 J1
10/31/2023	Assessment	0.157	28.4	131	0.010 J1	0.012 J1	0.42	1.21	1.97	0.21	1.24	0.00459	< 0.002 U1	1.4	0.07 J1	0.03 J1

Table 1. Groundwater Data Summary: MW-1605S
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.48	76.6	51.0	0.55	7.1	167	576
7/19/2016	Background	0.438	72.6	53.1	0.55	7.2	174	586
9/19/2016	Background	0.482	79.1	54.0	0.51	7.3	179	594
11/16/2016	Background	0.584	84.0	49.7	0.53	7.1	186	599
1/10/2017	Background	0.533	78.5	48.2	0.43	7.2	170	584
3/7/2017	Background	0.608	71.2	52.0	0.55	7.2	180	564
5/9/2017	Background	0.470	79.9	50.1	0.50	7.2	181	606
7/17/2017	Background	0.490	68.6	47.5	0.43	7.1	177	582
10/3/2017	Detection	0.539	71.6	44.1	0.46	7.1	175	578
12/11/2017	Detection	--	--	42.5	0.53	7.2	164	--
1/4/2018	Detection	0.616	--	--	0.48	7.7	168	614
6/5/2018	Assessment	0.461	71	46.5	0.58	7.6	154	592
8/15/2018	Assessment	0.029	45.8	46.5	0.59	7.1	153	573
5/24/2019	Assessment	0.415	76.0	46.1	0.61	7.3	147	586
6/27/2019	Assessment	0.438	72.0	46.3	0.63	7.2	150	595
9/12/2019	Assessment	0.431	77.0	49.4	0.54	7.0	162	593
3/10/2020	Assessment	--	--	--	0.56	6.9	--	--
5/21/2020	Assessment	0.501	84.7	55.5	0.60	6.9	195	656
11/13/2020	Assessment	0.555	72.7	48.4	0.54	6.9	167	609
2/4/2021	Assessment	0.481	71.8	50.9	0.58	6.7	174	610
5/26/2021	Assessment	0.500	74.9	52.7	0.57	9.5	178	610
11/10/2021	Assessment	0.476	71.3	50.7	0.54	7.0	173	590
2/15/2022	Assessment	0.538	77.2	51.8	0.49	7.0	181	600
5/11/2022	Assessment	0.598	87.3	50.5	0.55	7.2	178	600
11/1/2022	Assessment	0.574	72.6 M1, P3	50.5	0.50	7.1	183	580
2/9/2023	Assessment	0.595	68.3	50.5	0.57	7.1	174	580
5/30/2023	Assessment	0.499	53.5	47.1	0.56	6.5	163	560
10/31/2023	Assessment	0.633	64.0	43.1	0.60	7.0	152	660 Q5
12/20/2023	Assessment	--	--	--	--	--	--	550

Table 1. Groundwater Data Summary: MW-1605S
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.04 J1	0.52	8.07	< 0.005 U1	0.03	0.2	0.471	0.2307	0.55	0.116	0.13	< 0.002 U1	2.52	1.3	0.02 J1
7/19/2016	Background	0.10	0.60	8.65	< 0.005 U1	0.04	0.4	0.856	0.39	0.55	0.223	0.017	< 0.002 U1	2.20	1.0	0.02 J1
9/19/2016	Background	0.04 J1	0.42	7.61	< 0.005 U1	0.03	0.9	0.443	0.15	0.51	0.049	0.015	< 0.002 U1	1.83	1.0	0.03 J1
11/16/2016	Background	0.05	0.36	7.76	< 0.005 U1	0.04	0.108	0.355	0.964	0.53	0.021	0.021	< 0.002 U1	1.79	1.1	0.03 J1
1/10/2017	Background	0.06	0.50	8.33	< 0.005 U1	0.04	0.135	0.401	1.6248	0.43	0.02 J1	0.016	< 0.002 U1	2.01	1.1	0.060
3/7/2017	Background	0.04 J1	0.39	8.72	< 0.005 U1	0.03	0.279	0.307	0.339	0.55	0.033	0.015	< 0.002 U1	1.85	0.5	0.03 J1
5/9/2017	Background	0.05	0.45	8.41	0.020	0.03	0.247	0.370	0.255	0.50	0.020	0.013	0.005	1.81	0.9	0.050
7/17/2017	Background	0.04 J1	0.42	8.55	< 0.004 U1	0.03	0.113	0.336	1.254	0.43	0.026	0.015	< 0.002 U1	1.73	1.2	0.03 J1
6/5/2018	Assessment	0.04 J1	0.42	8.63	0.004 J1	0.03	0.093	0.321	0.705	0.58	0.042	0.016	< 0.002 U1	1.75	0.6	0.05 J1
8/15/2018	Assessment	0.04 J1	0.20	10.9	< 0.004 U1	0.03	0.078	0.087	0.1783	0.59	0.041	0.007	--	1.13	5.4	0.02 J1
5/24/2019	Assessment	0.15	2.84	15.4	0.04 J1	0.11	0.636	3.91	0.2689	0.61	1.96	0.02 J1	< 0.002 U1	2 J1	0.3	< 0.1 U1
6/27/2019	Assessment	0.11	2.44	12.5	0.04 J1	0.07	0.536	2.46	0.245	0.63	1.52	< 0.009 U1	< 0.002 U1	2 J1	0.5	0.1 J1
9/12/2019	Assessment	0.04 J1	0.61	6.72	< 0.02 U1	0.04 J1	0.09 J1	0.469	0.00129	0.54	0.1 J1	0.0108	< 0.002 U1	2.07	2.0	< 0.1 U1
3/10/2020	Assessment	0.04 J1	1.57	11.9	0.02 J1	0.05 J1	1.13	2.11	1.8805	0.56	0.920	0.0119	< 0.002 U1	2 J1	0.3	< 0.1 U1
5/21/2020	Assessment	0.05 J1	0.59	8.92	< 0.02 U1	0.04 J1	0.2 J1	0.575	1.007	0.60	0.2 J1	0.0113	< 0.002 U1	1 J1	0.4	< 0.1 U1
11/13/2020	Assessment	0.03 J1	0.47	6.32	< 0.02 U1	0.04 J1	1.12	0.377	2.5781	0.54	< 0.05 U1	0.0105	< 0.002 U1	2.21	0.8	< 0.1 U1
2/4/2021	Assessment	0.03 J1	0.47	6.04	< 0.02 U1	0.04 J1	0.928	0.361	0.544	0.58	< 0.05 U1	0.0104	< 0.002 U1	2 J1	0.6	< 0.1 U1
5/26/2021	Assessment	0.03 J1	0.45	6.85	< 0.007 U1	0.038	0.52	0.343	0.94	0.57	< 0.05 U1	0.0105	< 0.002 U1	1.8	0.71	< 0.04 U1
11/10/2021	Assessment	0.05 J1	0.46	6.29	< 0.007 U1	0.041	1.39	0.378	1.19	0.54	< 0.05 U1	0.0100	< 0.002 U1	1.8	0.27 J1	< 0.04 U1
2/15/2022	Assessment	0.04 J1	0.52	5.79	< 0.007 U1	0.045	0.62	0.470	0.70	0.49	< 0.05 U1	0.00954	< 0.002 U1	1.9	0.31 J1	< 0.04 U1
5/11/2022	Assessment	0.03 J1	0.55	6.47	< 0.007 U1	0.042	0.56	0.418	0.66	0.55	< 0.05 U1	0.00964	< 0.002 U1	1.8	0.73	0.05 J1
11/1/2022	Assessment	0.03 J1	0.54	5.70	< 0.007 U1	0.042	0.52	0.472	1.24	0.50	< 0.05 U1	0.0106	< 0.002 U1	1.8	0.09 J1	< 0.04 U1
2/9/2023	Assessment	0.05 J1	0.84	6.86	0.052	0.038	0.46	1.09	1.24	0.57	0.36	0.0109	< 0.002 U1	1.8	< 0.09 U1	0.06 J1
5/30/2023	Assessment	0.033 J1	0.48	4.88	< 0.007 U1	0.036	0.56	0.458	1.43	0.56	0.13 J1	0.00920	< 0.002 U1	1.5	0.07 J1	0.03 J1
10/31/2023	Assessment	0.046 J1	0.69	6.04	< 0.007 U1	0.039	0.71	0.643	1.34	0.60	0.17 J1	0.00944	< 0.002 U1	1.9	0.15 J1	0.07 J1

Table 1. Groundwater Data Summary: MW-1606D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.020	67.5	21.3	0.23	7.1	13.9	290
7/19/2016	Background	0.018	69.9	20.8	0.20	5.9	12.8	298
9/19/2016	Background	0.020	72.3	21.7	0.19	7.3	13.2	290
11/16/2016	Background	0.017	77.1	22.0	0.19	7.2	16.4	301
1/10/2017	Background	0.012	75.5	21.6	0.16	7.2	12.8	284
3/6/2017	Background	0.073	69.9	22.3	0.18	7.2	8.7	325
5/9/2017	Background	0.034	78.1	22.3	0.17	6.9	14.4	308
7/18/2017	Background	0.028	69.3	21.6	0.15	8.4	13.5	307
10/3/2017	Detection	0.022	74.4	22.3	0.16	7.0	17.1	308
12/11/2017	Detection	--	--	22.6	0.17	7.1	19.4	--
6/6/2018	Assessment	0.044	72	23.1	0.19	8.0	19.9	331
8/15/2018	Assessment	0.028	80.5	23.9	0.20	7.3	21.5	329
5/24/2019	Assessment	0.02 J1	75.7	25.0	0.20	7.2	19.6	330
6/24/2019	Assessment	0.02 J1	80.8	25.2	0.19	7.3	21.0	329
9/12/2019	Assessment	< 0.02 U1	76.7	26.9	0.18	7.3	25.6	361
3/9/2020	Assessment	--	--	--	0.17	6.9	--	--
5/20/2020	Assessment	0.03 J1	89.7	29.9	0.20	6.9	30.7	354
11/16/2020	Assessment	< 0.02 U1	81.1	28.9	0.18	7.3	30.8	371
2/4/2021	Assessment	< 0.02 U1	82.6	29.0	0.20	7.4	32.8	348
5/25/2021	Assessment	0.019 J1	81.6	28.4	0.20	8.9	33.4	350
11/10/2021	Assessment	0.017 J1	84.6	27.5	0.19	7.1	31.0	360
2/15/2022	Assessment	0.017 J1	82.1	27.7	0.18	6.8	34.3	380
5/10/2022	Assessment	0.016 J1	85.4	28.4	0.18	7.2	35.2	360 L1
11/1/2022	Assessment	0.017 J1	83.3	27.3	0.18	6.4	35.8	360
2/8/2023	Assessment	0.016 J1	79.7	27.1	0.17	7.1	37.9	390
5/30/2023	Assessment	0.017 J1	77.4	26.3	0.17	7.1	40.1	370
10/31/2023	Assessment	0.016 J1	76.8	25.6	0.18	6.7	39.1	390

Table 1. Groundwater Data Summary: MW-1606D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.03 J1	11.5	327	0.01 J1	< 0.004 U1	0.5	0.508	0.551	0.23	0.214	0.003	< 0.002 U1	3.82	0.06 J1	< 0.01 U1
7/19/2016	Background	0.02 J1	13.7	372	< 0.005 U1	< 0.004 U1	0.3	0.178	0.464	0.20	0.086	0.009	< 0.002 U1	2.10	0.05 J1	< 0.01 U1
9/19/2016	Background	0.01 J1	13.4	378	< 0.005 U1	< 0.004 U1	0.1	0.113	1.152	0.19	< 0.004 U1	0.002	< 0.002 U1	2.00	< 0.03 U1	< 0.01 U1
11/16/2016	Background	0.01 J1	14.4	419	< 0.005 U1	< 0.004 U1	0.138	0.102	0.333	0.19	< 0.004 U1	0.002	< 0.002 U1	2.21	< 0.03 U1	< 0.01 U1
1/10/2017	Background	0.03 J1	13.9	383	0.034	0.02 J1	0.160	0.109	1.612	0.16	0.023	< 0.0002 U1	< 0.002 U1	2.46	0.04 J1	0.124
3/6/2017	Background	0.01 J1	13.5	374	< 0.005 U1	< 0.004 U1	0.667	0.098	0.924	0.18	0.02 J1	0.007	< 0.002 U1	2.00	< 0.03 U1	< 0.01 U1
5/9/2017	Background	0.05	14.3	370	0.020	0.02	0.153	0.086	2.3	0.17	0.020	0.004	0.005	2.07	0.1	0.050
7/18/2017	Background	0.02 J1	14.8	401	< 0.004 U1	< 0.005 U1	0.131	0.084	1.584	0.15	0.01 J1	0.006	< 0.002 U1	1.85	< 0.03 U1	< 0.01 U1
6/6/2018	Assessment	< 0.01 U1	14.7	392	0.004 J1	< 0.005 U1	0.04 J1	0.07	1.5971	0.19	0.008 J1	0.005	< 0.002 U1	1.77	< 0.03 U1	0.03 J1
8/15/2018	Assessment	0.04 J1	16.9	431	0.006 J1	0.007 J1	0.148	0.117	0.56	0.20	0.141	0.002	--	1.77	< 0.03 U1	0.02 J1
5/24/2019	Assessment	< 0.02 U1	17.4	447	< 0.02 U1	< 0.01 U1	0.1 J1	0.066	0.946	0.20	< 0.02 U1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
6/24/2019	Assessment	< 0.02 U1	17.5	431	< 0.02 U1	< 0.01 U1	0.1 J1	0.068	0.809	0.19	0.02 J1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
9/12/2019	Assessment	< 0.02 U1	17.4	458	< 0.02 U1	< 0.01 U1	0.09 J1	0.085	0.593	0.18	< 0.05 U1	0.000651	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	< 0.02 U1	17.2	470	0.02 J1	< 0.01 U1	0.05 J1	0.053	0.980	0.17	0.05 J1	0.000659	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/20/2020	Assessment	< 0.02 U1	17.9	472	< 0.02 U1	< 0.01 U1	0.07 J1	0.063	0.939	0.20	0.2 J1	0.000622	< 0.002 U1	2.13	0.09 J1	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	17.7	467	< 0.02 U1	< 0.01 U1	0.287	0.052	0.924	0.18	< 0.05 U1	0.000564	< 0.002 U1	2 J1	0.04 J1	< 0.1 U1
2/4/2021	Assessment	< 0.02 U1	18.2	470	< 0.02 U1	< 0.01 U1	0.208	0.052	0.567	0.20	< 0.05 U1	0.000505	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/25/2021	Assessment	< 0.02 U1	18.3	494	< 0.007 U1	< 0.004 U1	< 0.04 U1	0.05	0.70	0.20	< 0.05 U1	0.0005	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	18.1	488	< 0.007 U1	< 0.004 U1	0.24	0.043	1.76	0.19	< 0.05 U1	0.00049	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	< 0.02 U1	17.8	493	< 0.007 U1	< 0.004 U1	0.34	0.048	2.33	0.18	< 0.05 U1	0.00048	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	17.8	472	< 0.007 U1	< 0.004 U1	0.36	0.049	0.81	0.18	< 0.05 U1	0.00047	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	18.5	500	< 0.007 U1	< 0.004 U1	0.29	0.039	1.09	0.18	< 0.05 U1	0.00051	< 0.002 U1	1.8	< 0.09 U1	< 0.04 U1
2/8/2023	Assessment	< 0.02 U1	17.8	484	< 0.007 U1	< 0.004 U1	0.32	0.067	1.58	0.17	< 0.05 U1	0.00055	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
5/30/2023	Assessment	0.017 J1	16.3	457	< 0.007 U1	< 0.004 U1	0.28 J1	0.065	1.04	0.17	< 0.05 U1	0.00055	< 0.002 U1	1.7	< 0.04 U1	< 0.02 U1
10/31/2023	Assessment	0.013 J1	17.2	480	< 0.007 U1	< 0.004 U1	0.48	0.056	0.94	0.18	0.07 J1	0.00048	< 0.002 U1	1.8	< 0.04 U1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1606I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.011	66.6	23.9	0.22	7.0	42.3	300
7/19/2016	Background	0.013	62.0	25.1	0.21	5.0	42.9	350
9/19/2016	Background	< 0.002 U1	62.8	24.2	0.19	7.2	36.7	314
11/16/2016	Background	0.014	70.7	25.0	0.21	7.3	42.6	325
1/10/2017	Background	0.007	68.0	24.5	0.17	7.4	39.3	326
3/6/2017	Background	0.025	64.1	23.8	0.19	7.4	37.8	317
5/9/2017	Background	0.070	67.8	23.0	0.19	7.4	36.8	318
7/18/2017	Background	0.023	55.5	22.6	0.17	6.7	37.1	304
10/3/2017	Detection	0.021	57.8	23.0	0.18	7.1	38.4	304
12/11/2017	Detection	--	--	23.0	0.19	7.1	37.9	--
6/6/2018	Assessment	0.053	78.2	31.5	0.2	8.1	52.4	392
8/15/2018	Assessment	0.031	86.3	25.4	0.21	7.3	50.3	387
5/21/2019	Assessment	0.02 J1	79.5	29.8	0.16	8.6	55.5	407
6/26/2019	Assessment	< 0.02 U1	86.8	31.5	0.18	7.2	51.0	406
9/12/2019	Assessment	< 0.02 U1	72.8	20.1	0.18	7.4	47.9	367
3/9/2020	Assessment	--	--	--	0.19	7.0	--	--
5/20/2020	Assessment	< 0.02 U1	74.7	19.2	0.21	6.9	43.8	340
11/16/2020	Assessment	< 0.02 U1	60.9	19.9	0.21	7.4	39.1	309
2/5/2021	Assessment	< 0.02 U1	63.8	21.0	0.24	7.5	40.7	316
5/25/2021	Assessment	0.013 J1	65.4	20.6	0.24	8.9	40.4	320
11/10/2021	Assessment	0.012 J1	62.5	19.3	0.23	7.6	39.2	310
2/14/2022	Assessment	0.013 J1	63.4	19.0	0.21	7.7	40.9	320
5/10/2022	Assessment	0.016 J1	66.8	19.5	0.22	7.4	43.6	310 L1
11/1/2022	Assessment	0.013 J1	58.5	17.2	0.21	7.0	43.1	300
2/8/2023	Assessment	0.012 J1	61.8	17.3	0.21	7.3	41.8	310
5/30/2023	Assessment	0.013 J1	55.9	17.4	0.20	7.2	44.3	310
10/31/2023	Assessment	0.012 J1	56.9	16.4	0.22	6.8	42.4	310

Table 1. Groundwater Data Summary: MW-1606I
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.03 J1	3.00	49.4	< 0.005 U1	0.004 J1	0.2	0.929	1.347	0.22	0.166	0.004	< 0.002 U1	1.64	0.05 J1	0.03 J1
7/19/2016	Background	0.03 J1	3.99	54.0	< 0.005 U1	< 0.004 U1	0.4	0.823	1.286	0.21	0.037	0.013	< 0.002 U1	1.57	< 0.03 U1	0.03 J1
9/19/2016	Background	0.02 J1	4.99	46.7	< 0.005 U1	< 0.004 U1	0.1	0.733	1.104	0.19	0.02 J1	0.009	< 0.002 U1	1.50	< 0.03 U1	0.03 J1
11/16/2016	Background	0.02 J1	4.59	48.1	< 0.005 U1	< 0.004 U1	0.070	0.700	0.951	0.21	< 0.004 U1	0.008	< 0.002 U1	1.83	< 0.03 U1	0.04 J1
1/10/2017	Background	0.02 J1	5.11	53.6	0.007 J1	0.01 J1	0.138	0.921	4.283	0.17	0.022	0.005	< 0.002 U1	2.12	< 0.03 U1	0.05 J1
3/6/2017	Background	0.02 J1	5.07	54.7	< 0.005 U1	< 0.004 U1	0.524	0.950	0.934	0.19	0.032	0.007	< 0.002 U1	1.78	0.03 J1	0.04 J1
5/9/2017	Background	0.05	4.81	49.9	0.020	0.02	0.179	1.26	0.677	0.19	0.071	0.008	0.005	1.27	0.1	0.050
7/18/2017	Background	0.02 J1	4.72	51.1	< 0.004 U1	< 0.005 U1	0.097	1.06	0.813	0.17	0.043	0.008	< 0.002 U1	1.11	< 0.03 U1	0.04 J1
6/6/2018	Assessment	0.03 J1	5.69	67.3	< 0.004 U1	< 0.005 U1	0.083	1.49	1.252	0.2	0.026	0.007	< 0.002 U1	0.98	< 0.03 U1	0.05 J1
8/15/2018	Assessment	0.03 J1	9.11	85.2	< 0.004 U1	0.005 J1	0.061	1.95	0.3912	0.21	0.034	0.006	--	1.34	< 0.03 U1	0.083
5/21/2019	Assessment	< 0.02 U1	7.69	74.5	< 0.02 U1	< 0.01 U1	< 0.04 U1	1.56	0.562	0.16	< 0.02 U1	< 0.009 U1	< 0.002 U1	0.8 J1	< 0.03 U1	< 0.1 U1
6/26/2019	Assessment	< 0.1 U1	7.96	78.1	< 0.1 U1	< 0.05 U1	< 0.2 U1	1.80	1.214	0.18	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	< 0.2 U1	< 0.5 U1
9/12/2019	Assessment	0.02 J1	11.2	76.7	< 0.02 U1	< 0.01 U1	0.1 J1	1.58	0.947	0.18	< 0.05 U1	0.00405	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	< 0.02 U1	8.69	65.2	< 0.02 U1	< 0.01 U1	0.05 J1	1.23	0.993	0.19	< 0.05 U1	0.00348	< 0.002 U1	1 J1	0.05 J1	< 0.1 U1
5/20/2020	Assessment	< 0.02 U1	8.40	61.8	< 0.02 U1	< 0.01 U1	0.1 J1	1.28	0.663	0.21	0.2 J1	0.00326	< 0.002 U1	1 J1	0.03 J1	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	9.37	60.8	< 0.02 U1	< 0.01 U1	0.2 J1	1.26	0.968	0.21	< 0.05 U1	0.00361	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
2/5/2021	Assessment	< 0.02 U1	9.73	59.1	< 0.02 U1	< 0.01 U1	0.238	1.30	1.711	0.24	< 0.05 U1	0.00319	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
5/25/2021	Assessment	< 0.02 U1	10.6	58.0	< 0.007 U1	0.020	0.19 J1	1.14	0.69	0.24	< 0.05 U1	0.00320	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	12.2	55.6	< 0.007 U1	< 0.004 U1	0.29	1.04	1.80	0.23	< 0.05 U1	0.00313	< 0.002 U1	1.2	< 0.09 U1	< 0.04 U1
2/14/2022	Assessment	0.02 J1	14.0	56.9	< 0.007 U1	0.004 J1	0.36	1.24	0.92	0.21	< 0.05 U1	0.00323	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	9.79	51.2	< 0.007 U1	< 0.004 U1	0.34	1.18	1.03	0.22	< 0.05 U1	0.00277	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	11.2	54.1	< 0.007 U1	< 0.004 U1	0.19 J1	1.04	1.69	0.21	< 0.05 U1	0.00314	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
2/8/2023	Assessment	0.04 J1	20.3	57.2	< 0.007 U1	0.005 J1	0.27	1.26	1.94	0.21	0.06 J1	0.00313	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
5/30/2023	Assessment	0.027 J1	12.2	46.7	< 0.007 U1	< 0.004 U1	0.20 J1	0.947	1.53	0.20	< 0.05 U1	0.00310	< 0.002 U1	1.1	< 0.04 U1	0.03 J1
10/31/2023	Assessment	0.015 J1	11.1	54.2	< 0.007 U1	0.005 J1	1.30	1.09	1.61	0.22	< 0.05 U1	0.00313	< 0.002 U1	1.3	< 0.04 U1	0.02 J1

Table 1. Groundwater Data Summary: MW-1606S
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.024	55.8	30.6	0.46	6.9	47.6	410
7/19/2016	Background	0.019	46.0	24.0	0.43	7.1	38.1	386
9/19/2016	Background	< 0.002 U1	44.4	18.7	0.40	7.1	31.8	316
11/16/2016	Background	0.020	54.1	26.6	0.40	6.9	40.0	358
1/10/2017	Background	0.014	48.5	22.1	0.31	6.7	30.5	351
3/7/2017	Background	0.054	47.2	23.9	0.41	7.1	33.2	331
5/9/2017	Background	0.020	52.7	24.7	0.38	7.0	37.5	377
7/18/2017	Background	0.090	44.7	22.8	0.37	6.9	36.8	367
10/3/2017	Detection	0.026	43.4	24.1	0.41	6.6	35.6	363
12/11/2017	Detection	--	--	24.0	0.41	6.6	36.8	--
1/4/2018	Detection	--	--	--	0.42	7.4	--	--
6/6/2018	Assessment	0.029	50.9	25.5	0.46	7.8	52.6	398
8/15/2018	Assessment	0.563	76.1	20.7	0.47	6.9	34.9	316
5/21/2019	Assessment	0.05 J1	48.9	26.6	0.47	7.9	64.5	416
6/25/2019	Assessment	0.03 J1	49.8	25.0	0.45	7.0	41.7	380
9/12/2019	Assessment	0.02 J1	44.4	24.4	0.54	7.0	41.9	376
3/9/2020	Assessment	--	--	--	0.58	6.8	--	--
5/20/2020	Assessment	0.05 J1	48.4	25.1	0.63	6.9	46.9	375
11/16/2020	Assessment	< 0.02 U1	40.5	21.7	0.56	6.8	32.7	337
2/5/2021	Assessment	< 0.02 U1	42.0	29.0	0.52	7.1	31.1	374
5/25/2021	Assessment	0.016 J1	45.4	29.6	0.48	8.6	36.0	400
11/10/2021	Assessment	0.021 J1	51.1	32.5	0.52	7.2	42.4	440
2/14/2022	Assessment	0.019 J1	49.3	32.6	0.50	6.9	44.3	440
5/10/2022	Assessment	0.030 J1	47.7	33.2	0.47	6.9	42.7	420 L1
11/1/2022	Assessment	0.024 J1	63.3	16.6	0.20	6.1	43.2	300
2/8/2023	Assessment	0.019 J1	45.0	28.2	0.50	7.1	38.4	380
5/30/2023	Assessment	0.020 J1	39.6	22.5	0.53	6.9	32.6	350
11/1/2023	Assessment	0.017 J1	37.0	21.9	0.50	6.5	28.5	340

Table 1. Groundwater Data Summary: MW-1606S
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
6/7/2016	Background	0.08	0.26	12.5	< 0.005 U1	0.02	0.1	0.090	0.7867	0.46	0.145	0.012	< 0.002 U1	1.91	3.3	0.02 J1
7/19/2016	Background	0.06	0.23	11.5	< 0.005 U1	0.02 J1	0.5	0.052	0.94	0.43	0.034	0.017	< 0.002 U1	1.56	4.0	< 0.01 U1
9/19/2016	Background	0.05 J1	0.22	9.34	< 0.005 U1	0.01 J1	0.2	0.038	0.75	0.40	0.020	0.010	< 0.002 U1	1.32	5.7	0.01 J1
11/16/2016	Background	0.05 J1	0.20	11.1	< 0.005 U1	0.02 J1	0.148	0.038	0.574	0.40	0.004 J1	0.013	< 0.002 U1	1.02	3.1	0.01 J1
1/10/2017	Background	0.04 J1	0.24	10.7	0.01 J1	0.02 J1	1.29	0.141	2.025	0.31	0.097	0.006	< 0.002 U1	1.11	4.2	0.02 J1
3/7/2017	Background	0.07	0.60	16.7	0.024	0.06	1.25	0.883	1.822	0.41	1.33	0.011	< 0.002 U1	1.22	4.5	0.03 J1
5/9/2017	Background	0.05	0.29	12.0	0.020	0.03	0.277	0.371	0.193	0.38	0.355	0.010	0.005	0.90	6.0	0.050
7/18/2017	Background	0.05	0.32	12.6	0.01 J1	0.03	0.259	0.363	0.268	0.37	0.386	0.010	< 0.002 U1	1.08	4.7	0.02 J1
6/6/2018	Assessment	0.05 J1	0.2	13.6	0.005 J1	0.03	0.108	0.092	0.496	0.46	0.032	0.012	< 0.002 U1	1.19	2.7	0.03 J1
8/15/2018	Assessment	0.04 J1	0.44	8.22	0.004 J1	0.04	0.251	0.338	1.146	0.47	0.028	0.013	--	1.89	1.6	0.078
5/21/2019	Assessment	0.14	0.19	16.7	< 0.02 U1	0.05 J1	0.1 J1	0.094	0.668	0.47	< 0.02 U1	< 0.009 U1	< 0.002 U1	0.9 J1	3.3	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	0.2 J1	14.4	< 0.1 U1	0.06 J1	< 0.2 U1	< 0.1 U1	0.0646	0.45	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	2.9	< 0.5 U1
9/12/2019	Assessment	0.03 J1	0.17	11.8	< 0.02 U1	0.03 J1	0.08 J1	0.051	0.1052	0.54	< 0.05 U1	0.00814	< 0.002 U1	1 J1	2.8	< 0.1 U1
3/9/2020	Assessment	< 0.02 U1	0.17	10.7	< 0.02 U1	0.02 J1	0.2 J1	0.05 J1	0.00206	0.58	< 0.05 U1	0.00787	< 0.002 U1	1 J1	4.4	< 0.1 U1
5/20/2020	Assessment	0.04 J1	0.20	13.6	< 0.02 U1	0.03 J1	0.294	0.081	0.4706	0.63	< 0.05 U1	0.00858	< 0.002 U1	1 J1	3.2	< 0.1 U1
11/16/2020	Assessment	0.03 J1	0.17	11.5	< 0.02 U1	0.03 J1	0.286	0.05 J1	1.328	0.56	< 0.05 U1	0.00846	< 0.002 U1	1 J1	4.7	< 0.1 U1
2/5/2021	Assessment	0.03 J1	0.17	13.0	< 0.02 U1	0.03 J1	0.241	0.05 J1	0.827	0.52	< 0.05 U1	0.00830	< 0.002 U1	1 J1	3.2	< 0.1 U1
5/25/2021	Assessment	0.03 J1	0.18	11.8	< 0.007 U1	0.031	0.28	0.080	0.56	0.48	0.05 J1	0.00864	< 0.002 U1	1.1	2.23	< 0.04 U1
11/10/2021	Assessment	0.03 J1	0.18	13.6	< 0.007 U1	0.034	0.52	0.054	0.72	0.52	0.09 J1	0.00839	< 0.002 U1	1.3	1.36	< 0.04 U1
2/14/2022	Assessment	0.04 J1	0.18	13.9	< 0.007 U1	0.031	0.34	0.073	0.72	0.50	< 0.05 U1	0.00880	< 0.002 U1	1.2	2.71	< 0.04 U1
5/10/2022	Assessment	0.04 J1	0.18	18.4	< 0.007 U1	0.032	0.34	0.112	0.77	0.47	0.09 J1	0.00763	< 0.002 U1	1.1	2.48	< 0.04 U1
11/1/2022	Assessment	0.20	84.0	64.1	0.017 J1	0.007 J1	0.28	1.43	0.90	0.20	0.32	0.00311	< 0.002 U1	1.5	0.11 J1	< 0.04 U1
2/8/2023	Assessment	0.05 J1	0.22	14.4	0.011 J1	0.127	0.59	1.12	1.98	0.50	0.19 J1	0.00884	< 0.002 U1	1.4	1.53	< 0.04 U1
5/30/2023	Assessment	0.035 J1	0.14	9.77	< 0.007 U1	0.024	0.31	0.108	1.06	0.53	< 0.05 U1	0.00785	< 0.002 U1	1.4	2.37	< 0.02 U1
11/1/2023	Assessment	0.030 J1	0.14	8.66	< 0.007 U1	0.029	0.38	0.077	1.10	0.50	< 0.05 U1	0.00675	< 0.002 U1	1.3	3.55	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1701D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
12/12/2017	Detection	0.054	71.8	20.1	0.28	7.3	44	378
2/8/2018	Assessment	0.066	70.8	19.9	0.3	7.5	45.3	402
6/5/2018	Assessment	0.041	68.1	13.7	0.34	7.3	36.8	700
8/14/2018	Assessment	0.060	77.0	14.1	0.36	7.2	39.8	369
9/24/2018	Assessment	0.047	71.6	15.2	0.33	7.5	40.0	366
10/29/2018	Assessment	0.125	76.5	15.4	0.32	7.8	40.7	362
11/12/2018	Assessment	0.114	76.7	15.7	0.35	7.1	40	358
5/20/2019	Assessment	0.02 J1	66.8	14.0	0.32	7.2	43.5	371
6/25/2019	Assessment	0.02 J1	70.8	14.9	0.32	7.1	39.0	387
9/9/2019	Assessment	0.02 J1	70.5	16.0	0.31	7.0	36.6	376
3/10/2020	Assessment	--	--	--	0.33	7.0	--	--
5/21/2020	Assessment	0.02 J1	72.8	14.7	0.36	7.5	43.4	368
11/17/2020	Assessment	0.02 J1	71.1	16.8	0.33	7.0	40.3	379
2/2/2021	Assessment	0.03 J1	68.9	14.2	0.35	6.9	40.5	366
5/26/2021	Assessment	0.021 J1	68.7	14.8	0.36	9.3	39.8	350
11/9/2021	Assessment	0.023 J1	69.1	15.1	0.34	6.8	38.7	360
2/16/2022	Assessment	0.023 J1	68.6	14.0	0.34	7.1	39.4	360
5/11/2022	Assessment	0.018 J1	77.8	13.4	0.35	7.1	38.9	350 L1
11/2/2022	Assessment	0.023 J1	67.4	15.2	0.34	7.0	40.3	350
2/7/2023	Assessment	0.022 J1	66.5	14.6	0.33	7.7	39.5	350
6/1/2023	Assessment	0.013 J1	62.1	14.2	0.32	7.1	38.3	350
10/31/2023	Assessment	0.027 J1	66.1	15.2	0.35	6.7	38.9	380

Table 1. Groundwater Data Summary: MW-1701D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
2/8/2018	Assessment	0.03 J1	9.3	65	< 0.004 U1	0.009 J1	0.104	1.75	1.33	0.3	0.065	0.01	< 0.002 U1	1.37	0.04 J1	0.03 J1
6/5/2018	Assessment	0.02 J1	10.6	63.7	0.005 J1	0.02 J1	0.103	1.56	2.346	0.34	0.096	0.012	< 0.002 U1	1.38	< 0.03 U1	0.03 J1
8/14/2018	Assessment	0.01 J1	10.2	65.2	< 0.004 U1	< 0.005 U1	0.060	1.68	0.929	0.36	0.021	0.008	--	1.38	< 0.03 U1	0.03 J1
9/24/2018	Assessment	< 0.01 U1	10.1	64.0	< 0.004 U1	0.005 J1	0.076	1.71	0.564	0.33	0.074	< 0.0002 U1	--	1.33	< 0.03 U1	0.02 J1
10/29/2018	Assessment	< 0.02 U1	9.79	65.9	< 0.02 U1	< 0.01 U1	0.1 J1	1.66	0.417	0.32	0.04 J1	< 0.009 U1	--	1 J1	< 0.03 U1	< 0.1 U1
11/12/2018	Assessment	< 0.02 U1	9.1	62.2	< 0.02 U1	< 0.01 U1	0.1 J1	1.6	0.972	0.35	0.04 J1	< 0.009 U1	--	1 J1	< 0.03 U1	< 0.1 U1
5/20/2019	Assessment	< 0.02 U1	9.55	65.1	< 0.02 U1	< 0.01 U1	0.2 J1	1.59	0.702	0.32	< 0.02 U1	< 0.009 U1	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	9.58	64.6	< 0.1 U1	< 0.05 U1	< 0.2 U1	1.62	2.63	0.32	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	0.2 J1	< 0.5 U1
9/9/2019	Assessment	< 0.02 U1	9.37	65.0	< 0.02 U1	< 0.01 U1	0.2 J1	1.53	0.341	0.31	< 0.05 U1	0.00691	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	9.31	61.4	< 0.02 U1	< 0.01 U1	0.06 J1	1.48	0.546	0.33	< 0.05 U1	0.00654	< 0.002 U1	1 J1	0.03 J1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	9.40	62.4	< 0.02 U1	< 0.01 U1	0.1 J1	1.48	1.095	0.36	< 0.05 U1	0.00636	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
11/17/2020	Assessment	< 0.02 U1	9.58	64.4	< 0.02 U1	< 0.01 U1	0.209	1.59	1.585	0.33	< 0.05 U1	0.00659	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
2/2/2021	Assessment	< 0.02 U1	10.2	64.6	< 0.02 U1	< 0.01 U1	0.299	1.63	0.815	0.35	< 0.05 U1	0.00625	< 0.002 U1	1 J1	0.04 J1	< 0.1 U1
5/26/2021	Assessment	< 0.02 U1	9.57	61.6	< 0.007 U1	< 0.004 U1	0.1 J1	1.46	0.65	0.36	< 0.05 U1	0.00631	< 0.002 U1	1.2	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	< 0.02 U1	9.55	59.6	< 0.007 U1	< 0.004 U1	0.28	1.52	1.89	0.34	0.06 J1	0.00608	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	< 0.02 U1	9.82	61.9	< 0.007 U1	0.021	0.12 J1	1.56	0.92	0.34	< 0.05 U1	0.00604	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	< 0.02 U1	9.57	57.9	< 0.007 U1	< 0.004 U1	0.25	1.43	0.58	0.35	< 0.05 U1	0.00566	< 0.002 U1	1.4	< 0.09 U1	< 0.04 U1
11/2/2022	Assessment	0.05 J1	9.35	59.5	< 0.007 U1	< 0.004 U1	0.26	1.45	0.73	0.34	0.57	0.00683	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
2/7/2023	Assessment	< 0.02 U1	9.53	61.6	< 0.007 U1	< 0.004 U1	0.23	1.50	1.34	0.33	0.09 J1	0.00682	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
6/1/2023	Assessment	0.014 J1	8.84	55.9	< 0.007 U1	< 0.004 U1	0.18 J1	1.44	0.45	0.32	< 0.05 U1	0.00579	< 0.002 U1	1.3	< 0.04 U1	< 0.02 U1
10/31/2023	Assessment	0.009 J1	8.96	62.6	< 0.007 U1	< 0.004 U1	0.25 J1	1.45	4.28	0.35	< 0.05 U1	0.00646	< 0.002 U1	1.3	< 0.04 U1	0.02 J1

Table 1. Groundwater Data Summary: MW-1701I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
12/12/2017	Detection	0.066	65.4	13.5	0.33	7.3	40.7	338
2/8/2018	Assessment	0.095	63.7	14.5	0.38	7.7	43.1	363
6/5/2018	Assessment	0.044	65.5	14.1	0.44	7.4	36.5	328
8/14/2018	Assessment	0.052	67.9	14.5	0.39	7.2	34.8	352
9/24/2018	Assessment	0.038	68.9	14.9	0.41	7.6	35.0	346
10/31/2018	Assessment	0.104	62.4	14.8	0.4	7.9	34.8	338
11/12/2018	Assessment	0.166	71.7	14.5	0.42	7.3	35	322
5/20/2019	Assessment	0.02 J1	59.6	12.8	0.40	7.3	39.8	345
6/25/2019	Assessment	0.02 J1	69.4	12.8	0.41	7.7	36.3	388
9/9/2019	Assessment	< 0.02 U1	65.1	12.9	0.38	7.3	34.5	339
3/10/2020	Assessment	--	--	--	0.41	6.8	--	--
5/21/2020	Assessment	< 0.02 U1	73.3	13.0	0.43	7.2	39.8	349
11/17/2020	Assessment	< 0.02 U1	68.4	13.1	0.43	6.9	36.5	341
2/2/2021	Assessment	0.02 J1	65.9	13.2	0.45	7.0	36.1	362
5/26/2021	Assessment	0.017 J1	75.9	13.1	0.46	7.9	35.6	350
11/9/2021	Assessment	0.018 J1	64.3	13.4	0.43	6.4	32.1	310
2/16/2022	Assessment	0.017 J1	64.4	14.2	0.44	7.2	34.7	340
5/11/2022	Assessment	0.016 J1	65.2	14.8	0.43	7.2	34.8	330 L1
11/2/2022	Assessment	0.020 J1	63.4	14.7	0.42	7.3	33.6	330
2/8/2023	Assessment	0.018 J1	64.8	14.6	0.43	7.7	33.6	320
6/1/2023	Assessment	0.016 J1	61.1 M1	--	--	7.2	--	--
6/5/2023	Assessment	--	--	14.6	0.43	7.1	34.0	330
10/31/2023	Assessment	0.030 J1	62.2	14.6	0.45	6.7	33.3	340

Table 1. Groundwater Data Summary: MW-1701I
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
2/8/2018	Assessment	0.07	9.17	46.8	< 0.004 U1	0.01 J1	0.184	1.34	1.06	0.38	0.26	0.007	< 0.002 U1	2.52	0.07 J1	0.03 J1
6/5/2018	Assessment	0.05	8.07	42.7	0.021	0.02 J1	0.446	1.87	0.658	0.44	0.564	0.01	< 0.002 U1	1.15	0.2	0.05 J1
8/14/2018	Assessment	0.04 J1	6.42	38.3	0.004 J1	0.01 J1	0.085	1.10	0.3144	0.39	0.108	0.002	--	1.01	< 0.03 U1	0.02 J1
9/24/2018	Assessment	0.23	9.38	41.2	0.008 J1	0.02 J1	0.371	1.62	0.335	0.41	0.497	0.002	--	1.67	0.1	0.01 J1
10/31/2018	Assessment	0.25	6.69	40.7	< 0.02 U1	0.03 J1	0.337	1.12	0.304	0.4	0.403	0.02 J1	--	1 J1	0.07 J1	< 0.1 U1
11/12/2018	Assessment	0.1	6.77	40.3	< 0.02 U1	< 0.01 U1	0.2 J1	1.19	0.579	0.42	0.09 J1	< 0.009 U1	--	1 J1	< 0.03 U1	< 0.1 U1
5/20/2019	Assessment	0.14	12.8	41.5	< 0.02 U1	0.02 J1	0.09 J1	1.16	0.628	0.40	0.09 J1	< 0.009 U1	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	9.47	41.9	< 0.1 U1	< 0.05 U1	< 0.2 U1	1.16	0.116	0.41	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	< 0.2 U1	< 0.5 U1
9/9/2019	Assessment	0.21	7.92	40.6	< 0.02 U1	< 0.01 U1	0.08 J1	0.843	0.781	0.38	0.08 J1	0.00561	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
3/10/2020	Assessment	0.20	14.3	46.8	< 0.02 U1	0.02 J1	0.256	1.42	1.233	0.41	0.384	0.00594	< 0.002 U1	1 J1	0.1 J1	< 0.1 U1
5/21/2020	Assessment	0.13	11.9	41.9	< 0.02 U1	0.01 J1	0.2 J1	1.32	0.943	0.43	0.276	0.00549	< 0.002 U1	1 J1	0.06 J1	< 0.1 U1
11/17/2020	Assessment	0.06 J1	9.93	41.4	< 0.02 U1	< 0.01 U1	0.231	1.17	1.337	0.43	0.07 J1	0.00553	< 0.002 U1	1 J1	0.04 J1	< 0.1 U1
2/2/2021	Assessment	0.05 J1	9.36	41.0	< 0.02 U1	< 0.01 U1	0.2 J1	1.18	0.675	0.45	< 0.05 U1	0.00539	< 0.002 U1	1 J1	0.06 J1	< 0.1 U1
5/26/2021	Assessment	0.17	21.6	43.5	0.012 J1	0.067	0.44	2.06	0.63	0.46	0.67	0.00533	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.02 J1	7.42	39.7	< 0.007 U1	< 0.004 U1	0.30	0.872	1.09	0.43	0.09 J1	0.00579	< 0.002 U1	1.0	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	0.02 J1	7.51	37.3	< 0.007 U1	< 0.004 U1	0.21	0.845	0.70	0.44	< 0.05 U1	0.00536	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	0.05 J1	9.66	35.2	< 0.007 U1	0.009 J1	0.27	0.981	0.99	0.43	0.07 J1	0.00494	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1
11/2/2022	Assessment	0.03 J1	6.22	37.2	< 0.007 U1	< 0.004 U1	0.18 J1	0.727	1.09	0.42	< 0.05 U1	0.00596	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1
2/8/2023	Assessment	0.05 J1	11.5	38.7	< 0.007 U1	0.009 J1	0.25	1.07	0.67	0.43	0.15 J1	0.00582	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1
6/1/2023	Assessment	0.031 J1	9.26	36.5	< 0.007 U1	0.005 J1	0.25 J1	0.980	0.92	--	0.07 J1	0.00544	< 0.002 U1	1.1	< 0.04 U1	< 0.02 U1
6/5/2023	Assessment	--	--	--	--	--	--	--	--	0.43	--	--	--	--	--	--
10/31/2023	Assessment	0.095 J1	29.3	44.5	< 0.007 U1	0.022	0.27 J1	2.00	0.94	0.45	0.35	0.00533	< 0.002 U1	1.1	0.09 J1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1701S
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
12/12/2017	Detection	0.051	58.1	18.6	0.35	7.5	21.1	288
2/8/2018	Assessment	0.025	56.6	19	0.36	7.8	21.6	334
6/4/2018	Assessment	0.032	59.2	19.4	0.38	7.4	21.3	368
8/14/2018	Assessment	0.056	64.1	19.6	0.36	7.3	20.4	329
9/25/2018	Assessment	0.035	60.7	19.6	0.37	6.6	20.3	316
10/29/2018	Assessment	0.129	63.7	19.1	0.38	7.2	18.8	312
11/12/2018	Assessment	0.139	63.6	19.1	0.39	7.5	18.9	318
5/20/2019	Assessment	< 0.02 U1	56.5	19.7	0.42	7.2	20.0	320
6/25/2019	Assessment	0.02 J1	63.5	19.6	0.37	7.3	20.7	353
9/9/2019	Assessment	< 0.02 U1	57.0	20.0	0.37	7.2	17.8	332
3/10/2020	Assessment	--	--	--	0.39	7.1	--	--
5/21/2020	Assessment	< 0.02 U1	67.8	21.6	0.41	7.3	19.6	348
11/17/2020	Assessment	< 0.02 U1	61.3	21.1	0.40	6.9	17.1	322
2/2/2021	Assessment	< 0.02 U1	57.2	20.6	0.41	7.0	16.7	319
5/26/2021	Assessment	0.015 J1	70.0	20.6	0.42	7.9	16.9	310
11/9/2021	Assessment	0.016 J1	58.6	19.4	0.39	6.5	15.6	300
2/16/2022	Assessment	0.015 J1	56.4	20.3	0.40	7.3	18.0	350
5/11/2022	Assessment	0.014 J1	60.0	22.1	0.40	7.3	17.3	320 L1
11/2/2022	Assessment	0.017 J1	56.3	21.0	0.38	6.7	16.4	310
2/8/2023	Assessment	0.015 J1	57.6	20.9	0.37	7.8	15.6	330
6/1/2023	Assessment	0.013 J1	53.9	--	--	7.2	--	--
8/16/2023	Assessment	--	--	22.4	0.36	7.2	16.6	330
10/31/2023	Assessment	0.014 J1	53.2	21.4	0.39	6.7	15.4	320

Table 1. Groundwater Data Summary: MW-1701S
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
2/8/2018	Assessment	0.14	0.39	9.51	< 0.004 U1	0.03	0.256	0.198	0.356	0.36	0.176	0.007	< 0.002 U1	0.85	0.4	0.03 J1
6/4/2018	Assessment	0.07	0.38	5.2	< 0.004 U1	0.009 J1	0.05 J1	0.087	1.053	0.38	0.023	0.009	< 0.002 U1	0.68	0.6	0.01 J1
8/14/2018	Assessment	0.04 J1	0.37	9.34	< 0.004 U1	0.008 J1	0.065	0.092	0.3729	0.36	0.028	0.002	--	0.69	0.4	0.02 J1
9/25/2018	Assessment	0.12	0.38	8.55	< 0.004 U1	0.008 J1	0.03 J1	0.096	1.02	0.37	0.021	0.002	--	0.69	0.4	< 0.01 U1
10/29/2018	Assessment	0.07 J1	0.39	13.2	< 0.02 U1	0.02 J1	0.1 J1	0.091	0.1291	0.38	0.06 J1	< 0.009 U1	--	0.7 J1	0.4	< 0.1 U1
11/12/2018	Assessment	0.08 J1	0.37	8.2	< 0.02 U1	0.01 J1	0.2 J1	0.092	0.2239	0.39	0.05 J1	< 0.009 U1	--	0.7 J1	0.4	< 0.1 U1
5/20/2019	Assessment	0.06 J1	0.41	18.7	< 0.02 U1	0.04 J1	0.2 J1	0.053	0.0249	0.42	0.06 J1	< 0.009 U1	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	0.4 J1	8.08	< 0.1 U1	< 0.05 U1	< 0.2 U1	0.2 J1	0.931	0.37	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	0.5 J1	< 0.5 U1
9/9/2019	Assessment	0.16	0.38	16.8	< 0.02 U1	< 0.01 U1	0.1 J1	0.073	0.327	0.37	< 0.05 U1	0.00556	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
3/10/2020	Assessment	0.03 J1	0.41	11.4	< 0.02 U1	0.02 J1	0.2 J1	0.087	0.597	0.39	< 0.05 U1	0.00537	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
5/21/2020	Assessment	0.05 J1	0.39	10.4	< 0.02 U1	0.01 J1	0.1 J1	0.075	0.472	0.41	< 0.05 U1	0.00499	< 0.002 U1	0.6 J1	0.3	< 0.1 U1
11/17/2020	Assessment	0.04 J1	0.41	12.3	< 0.02 U1	0.01 J1	0.504	0.080	1.675	0.40	< 0.05 U1	0.00508	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
2/2/2021	Assessment	0.05 J1	0.42	8.12	< 0.02 U1	0.01 J1	0.310	0.087	0.447	0.41	< 0.05 U1	0.00490	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
5/26/2021	Assessment	0.15	0.40	13.1	< 0.007 U1	0.04	0.09 J1	0.229	0.98	0.42	0.06 J1	0.00499	< 0.002 U1	0.7	0.48 J1	< 0.04 U1
11/9/2021	Assessment	0.03 J1	0.38	11.7	< 0.007 U1	0.011 J1	0.23	0.111	0.62	0.39	< 0.05 U1	0.00507	< 0.002 U1	0.7	0.40 J1	< 0.04 U1
2/16/2022	Assessment	0.06 J1	0.40	10.0	< 0.007 U1	0.012 J1	0.59	0.085	0.77	0.40	< 0.05 U1	0.00446	< 0.002 U1	0.7	0.47 J1	< 0.04 U1
5/11/2022	Assessment	0.08 J1	0.45	12.1	< 0.007 U1	0.012 J1	0.28	0.056	1.23	0.40	< 0.05 U1	0.00456	< 0.002 U1	0.7	0.52	< 0.04 U1
11/2/2022	Assessment	0.02 J1	0.36	10.9	< 0.007 U1	0.009 J1	0.24	0.049	0.71	0.38	< 0.05 U1	0.00517	< 0.002 U1	0.7	0.56	< 0.04 U1
2/8/2023	Assessment	0.02 J1	0.39	8.17	< 0.007 U1	0.011 J1	0.25	0.074	0.75	0.37	0.25	0.00517	< 0.002 U1	0.7	0.46 J1	< 0.04 U1
6/1/2023	Assessment	0.051 J1	0.35	11.3	< 0.007 U1	0.008 J1	0.20 J1	0.089	0.48	--	< 0.05 U1	0.00481	< 0.002 U1	0.7	0.38 J1	< 0.02 U1
8/16/2023	Assessment	--	--	--	--	--	--	--	--	0.36	--	--	--	--	--	--
10/31/2023	Assessment	0.034 J1	0.35	10.5	< 0.007 U1	0.025	0.29 J1	0.130	0.63	0.39	< 0.05 U1	0.00489	< 0.002 U1	0.7	0.41 J1	< 0.02 U1

Table 1. Groundwater Data Summary: MW-1702D
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
12/12/2017	Detection	0.105	74.3	30.3	0.19	7.2	39.9	362
2/9/2018	Assessment	0.042	76.1	30.5	0.19	8.0	41.3	386
6/4/2018	Assessment	0.024	78.5	31.6	0.24	7.1	39.9	372
8/14/2018	Assessment	0.071	80.7	30.7	0.20	6.8	38.1	379
9/26/2018	Assessment	0.096	80.0	31.2	0.20	7.1	37.8	392
10/30/2018	Assessment	0.06 J1	87.2	30.9	0.2	8.2	37.3	394
11/12/2018	Assessment	0.06 J1	89.8	31.5	0.21	7.4	37.3	374
5/20/2019	Assessment	0.02 J1	78.7	30.5	0.18	7.0	38.9	402
6/26/2019	Assessment	0.02 J1	80.0	30.4	0.17	7.6	39.0	388
9/10/2019	Assessment	< 0.02 U1	86.6	30.6	0.20	7.1	37.9	384
3/9/2020	Assessment	--	--	--	0.19	7.0	--	--
5/21/2020	Assessment	< 0.02 U1	88.2	31.5	0.22	7.1	39.2	393
11/17/2020	Assessment	< 0.02 U1	86.5	30.6	0.20	6.8	37.0	384
2/2/2021	Assessment	< 0.02 U1	79.2	30.5	0.22	6.8	37.4	396
5/27/2021	Assessment	0.017 J1	83.3	30.8	0.22	7.7	37.6	400
11/9/2021	Assessment	0.015 J1	79.1	30.3	0.20	6.7	35.0	390
2/16/2022	Assessment	0.017 J1	80.7	30.8	0.19	6.9	38.0	390
5/10/2022	Assessment	0.019 J1	84.1	31.6	0.19	7.1	39.8	390 L1
11/3/2022	Assessment	0.050	76.8	31.1	0.19	7.1	39.1	370
2/7/2023	Assessment	0.017 J1	72.0	30.9	0.19	7.4	38.3	390
6/1/2023	Assessment	0.017 J1	71.4	--	--	5.7	--	--
6/5/2023	Assessment	--	--	30.3	0.18	7.3	45.9	400
10/31/2023	Assessment	0.022 J1	74.5	30.8	0.20	6.6	40.9	390

Table 1. Groundwater Data Summary: MW-1702D
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
2/9/2018	Assessment	0.25	22.5	212	< 0.004 U1	0.02 J1	0.389	0.877	0.977	0.19	0.27	0.007	< 0.002 U1	5.91	0.09 J1	0.03 J1
6/4/2018	Assessment	0.18	25.2	208	0.005 J1	0.02	0.105	0.698	1.345	0.24	0.052	0.009	< 0.002 U1	4.18	< 0.03 U1	0.02 J1
8/14/2018	Assessment	0.15	21.3	191	< 0.004 U1	0.02 J1	0.091	0.590	0.949	0.20	0.026	0.002	--	3.68	< 0.03 U1	0.03 J1
9/26/2018	Assessment	0.18	22.0	211	< 0.004 U1	0.01 J1	0.069	0.564	1.084	0.20	0.230	0.008	--	3.38	< 0.03 U1	0.02 J1
10/30/2018	Assessment	0.1	22.5	204	< 0.02 U1	0.01 J1	0.08 J1	0.581	0.784	0.2	0.02 J1	< 0.009 U1	--	2.77	0.03 J1	< 0.1 U1
11/12/2018	Assessment	0.08 J1	20.2	199	< 0.02 U1	0.02 J1	0.1 J1	0.498	1.167	0.21	0.03 J1	< 0.009 U1	--	2.53	< 0.03 U1	< 0.1 U1
5/20/2019	Assessment	0.08 J1	25.6	223	< 0.02 U1	0.02 J1	0.1 J1	0.686	1.207	0.18	0.04 J1	< 0.009 U1	< 0.002 U1	2.43	< 0.03 U1	< 0.1 U1
6/26/2019	Assessment	0.07 J1	24.4	209	< 0.02 U1	0.02 J1	0.08 J1	0.601	0.689	0.17	0.07 J1	0.02 J1	< 0.002 U1	2.15	0.03 J1	< 0.1 U1
9/10/2019	Assessment	0.04 J1	22.1	203	< 0.02 U1	< 0.01 U1	0.1 J1	0.536	0.639	0.20	< 0.05 U1	0.00456	< 0.002 U1	2.16	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	0.02 J1	21.2	207	< 0.02 U1	0.02 J1	0.07 J1	0.534	1.102	0.19	< 0.05 U1	0.00430	< 0.002 U1	2 J1	0.04 J1	< 0.1 U1
5/21/2020	Assessment	0.08 J1	20.3	199	< 0.02 U1	0.04 J1	0.2 J1	0.517	1.047	0.22	< 0.05 U1	0.00398	< 0.002 U1	2 J1	0.07 J1	< 0.1 U1
11/17/2020	Assessment	0.05 J1	21.0	206	< 0.02 U1	< 0.01 U1	0.2 J1	0.519	1.100	0.20	< 0.05 U1	0.00416	< 0.002 U1	2 J1	0.03 J1	< 0.1 U1
2/2/2021	Assessment	0.08 J1	25.6	202	< 0.02 U1	0.02 J1	0.2 J1	0.574	1.0318	0.22	0.06 J1	0.00409	< 0.002 U1	2.00	0.05 J1	< 0.1 U1
5/27/2021	Assessment	0.08 J1	29.8	209 P3	< 0.007 U1	0.016 J1	0.36	0.607	1.45	0.22	0.07 J1	0.00407	< 0.002 U1	2.1	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.03 J1	35.9	204	< 0.007 U1	0.007 J1	0.29	0.534	2.42	0.20	0.09 J1	0.00417	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	0.13	22.9	195	< 0.007 U1	0.047	0.40	0.551	1.02	0.19	0.06 J1	0.00396	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.07 J1	26.6	188	< 0.007 U1	0.014 J1	0.24	0.537	1.09	0.19	0.12 J1	0.00366	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
11/3/2022	Assessment	0.10	36.2	209	0.050	0.082	0.28	0.642	0.45	0.19	0.22	0.00441	0.005	1.9	0.50	0.20
2/7/2023	Assessment	0.05 J1	36.9	197	< 0.007 U1	0.023	0.29	0.671	0.97	0.19	0.22	0.00443	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
6/1/2023	Assessment	0.077 J1	26.2	187	0.011 J1	0.074	0.32	0.587	0.93	--	0.28	0.00414	< 0.002 U1	1.9	0.14 J1	< 0.02 U1
6/5/2023	Assessment	--	--	--	--	--	--	--	--	0.18	--	--	--	--	--	--
10/31/2023	Assessment	0.090 J1	43.1	206	0.014 J1	0.019 J1	0.33	0.832	2.12	0.20	0.50	0.00423	< 0.002 U1	1.8	0.16 J1	0.02 J1

Table 1. Groundwater Data Summary: MW-1702I
Rockport - BAP
Appendix III Constituents

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
12/12/2017	Detection	0.037	76.2	27.1	0.2	7.2	45.4	376
2/9/2018	Assessment	0.045	72.7	27.6	0.22	7.8	46.6	377
6/4/2018	Assessment	0.081	76.2	28.7	0.24	7.1	43.4	760
8/13/2018	Assessment	0.051	81.1	29.0	0.22	6.6	41.5	382
9/25/2018	Assessment	0.056	78.9	29.8	0.23	6.8	41.9	398
10/30/2018	Assessment	0.07 J1	81.7	29.2	0.23	7.8	41.9	392
11/12/2018	Assessment	0.07 J1	82.7	29.9	0.24	6.8	41.9	364
5/20/2019	Assessment	0.02 J1	73.2	28.8	0.21	6.9	44.5	376
6/25/2019	Assessment	0.02 J1	74.7	28.5	0.20	7.3	44.7	376
9/10/2019	Assessment	< 0.02 U1	80.2	28.9	0.24	7.1	43.6	384
3/9/2020	Assessment	--	--	--	--	7.1	--	--
3/11/2020	Assessment	--	--	--	0.22	--	--	--
5/21/2020	Assessment	< 0.02 U1	83.3	29.7	0.25	7.1	44.1	376
11/17/2020	Assessment	< 0.02 U1	76.5	29.0	0.23	6.8	41.6	394
2/2/2021	Assessment	< 0.02 U1	74.2	28.7	0.25	6.7	41.8	389
5/27/2021	Assessment	0.014 J1	78.5	28.2	0.25	7.8	41.8	380
11/9/2021	Assessment	0.014 J1	72.7	28.9	0.24	6.6	40.0	380
2/16/2022	Assessment	0.015 J1	76.4	28.7	0.23	7.1	42.9	390
5/10/2022	Assessment	0.016 J1	87.1	28.6	0.23	7.1	44.9	390 L1
11/3/2022	Assessment	0.050	69.2 M1	28.9	0.23	7.3	44.2	370
2/7/2023	Assessment	0.017 J1	66.7	27.5	0.23	7.5	42.9	390
6/1/2023	Assessment	0.014 J1	67.0	--	--	7.2	--	--
6/6/2023	Assessment	--	--	28.6	0.23	6.8	43.0	360
10/31/2023	Assessment	0.019 J1	68.2	29.5	0.24	6.6	41.6	400

Table 1. Groundwater Data Summary: MW-1702I
Rockport - BAP
Appendix IV Constituents

Geosyntec Consultants, Inc.

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
2/9/2018	Assessment	0.05 J1	42.3	109	0.007 J1	0.01 J1	1.49	2.15	1.324	0.22	0.337	0.004	< 0.002 U1	7.9	0.1	0.04 J1
6/4/2018	Assessment	0.07	28.1	109	0.007 J1	0.06	0.129	1.29	1.969	0.24	0.247	0.009	< 0.002 U1	1.91	0.08 J1	0.054
8/13/2018	Assessment	0.10	28.9	102	0.004 J1	0.02 J1	0.146	1.35	1.243	0.22	0.074	0.002	--	1.89	0.05 J1	0.102
9/25/2018	Assessment	0.44	39.6	114	< 0.004 U1	0.01 J1	0.050	1.70	0.3854	0.23	0.087	0.003	--	2.04	0.04 J1	0.05 J1
10/30/2018	Assessment	0.14	43	113	< 0.02 U1	0.22	0.1 J1	1.57	1.364	0.23	0.129	< 0.009 U1	--	2 J1	0.05 J1	< 0.1 U1
11/12/2018	Assessment	0.18	37.3	109	< 0.02 U1	0.05	0.1 J1	1.52	0.746	0.24	0.09 J1	< 0.009 U1	--	2 J1	0.04 J1	< 0.1 U1
5/20/2019	Assessment	0.07 J1	49.5	115	< 0.02 U1	0.01 J1	0.05 J1	1.43	1.519	0.21	0.05 J1	< 0.009 U1	< 0.002 U1	2 J1	0.05 J1	< 0.1 U1
6/25/2019	Assessment	0.07 J1	54.1	114	< 0.02 U1	0.02 J1	0.07 J1	1.78	0.467	0.20	0.1 J1	0.02 J1	< 0.002 U1	2 J1	0.07 J1	< 0.1 U1
9/10/2019	Assessment	0.08 J1	55.8	112	< 0.02 U1	< 0.01 U1	0.1 J1	1.60	0.584	0.24	0.06 J1	0.00469	< 0.002 U1	2.03	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	0.12	67.5	121	< 0.02 U1	0.13	0.852	3.15	1.081	--	0.678	0.00453	< 0.002 U1	2 J1	0.1 J1	< 0.1 U1
3/11/2020	Assessment	--	--	--	--	--	--	--	--	0.22	--	--	--	--	--	--
5/21/2020	Assessment	0.08 J1	38.7	108	< 0.02 U1	0.02 J1	0.2 J1	1.53	1.589	0.25	0.1 J1	0.00415	< 0.002 U1	2 J1	0.06 J1	< 0.1 U1
11/17/2020	Assessment	0.12	65.4	113	< 0.02 U1	0.05	0.204	1.66	1.671	0.23	0.1 J1	0.00429	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
2/2/2021	Assessment	0.13	72.7	115	< 0.02 U1	0.02 J1	0.205	1.60	1.535	0.25	0.05 J1	0.00425	< 0.002 U1	2 J1	0.05 J1	< 0.1 U1
5/27/2021	Assessment	0.08 J1	50.4	110	< 0.007 U1	0.008 J1	0.13 J1	1.42	0.88	0.25	< 0.05 U1	0.00422	< 0.002 U1	1.8	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.06 J1	54.4	110	< 0.007 U1	0.006 J1	0.22	1.54	1.35	0.24	< 0.05 U1	0.00426	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	0.10	75.4	116	< 0.007 U1	0.014 J1	0.33	1.70	1.64	0.23	0.05 J1	0.00412	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.12	57.1	110	< 0.007 U1	0.013 J1	0.26	1.26	1.56	0.23	0.07 J1	0.00390	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
11/3/2022	Assessment	0.10	79.1	114	0.050	0.020	0.36	1.75	1.36	0.23	0.20	0.00449	0.005	1.8	0.50	0.20
2/7/2023	Assessment	0.07 J1	61.0	108	< 0.007 U1	0.021	0.28	1.84	1.36	0.23	< 0.05 U1	0.00451	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
6/1/2023	Assessment	0.089 J1	76.1	106	< 0.007 U1	0.013 J1	0.19 J1	1.52	1.22	--	0.08 J1	0.00412	< 0.002 U1	1.9	0.06 J1	0.03 J1
6/6/2023	Assessment	--	--	--	--	--	--	--	--	0.23	--	--	--	--	--	--
10/31/2023	Assessment	0.075 J1	66.0	110	< 0.007 U1	0.015 J1	0.25 J1	1.95	1.72	0.24	0.07 J1	0.00424	< 0.002 U1	1.9	0.06 J1	0.04 J1

Table 1. Groundwater Data Summary: MW-1702S
Rockport - BAP
Appendix III Constituents

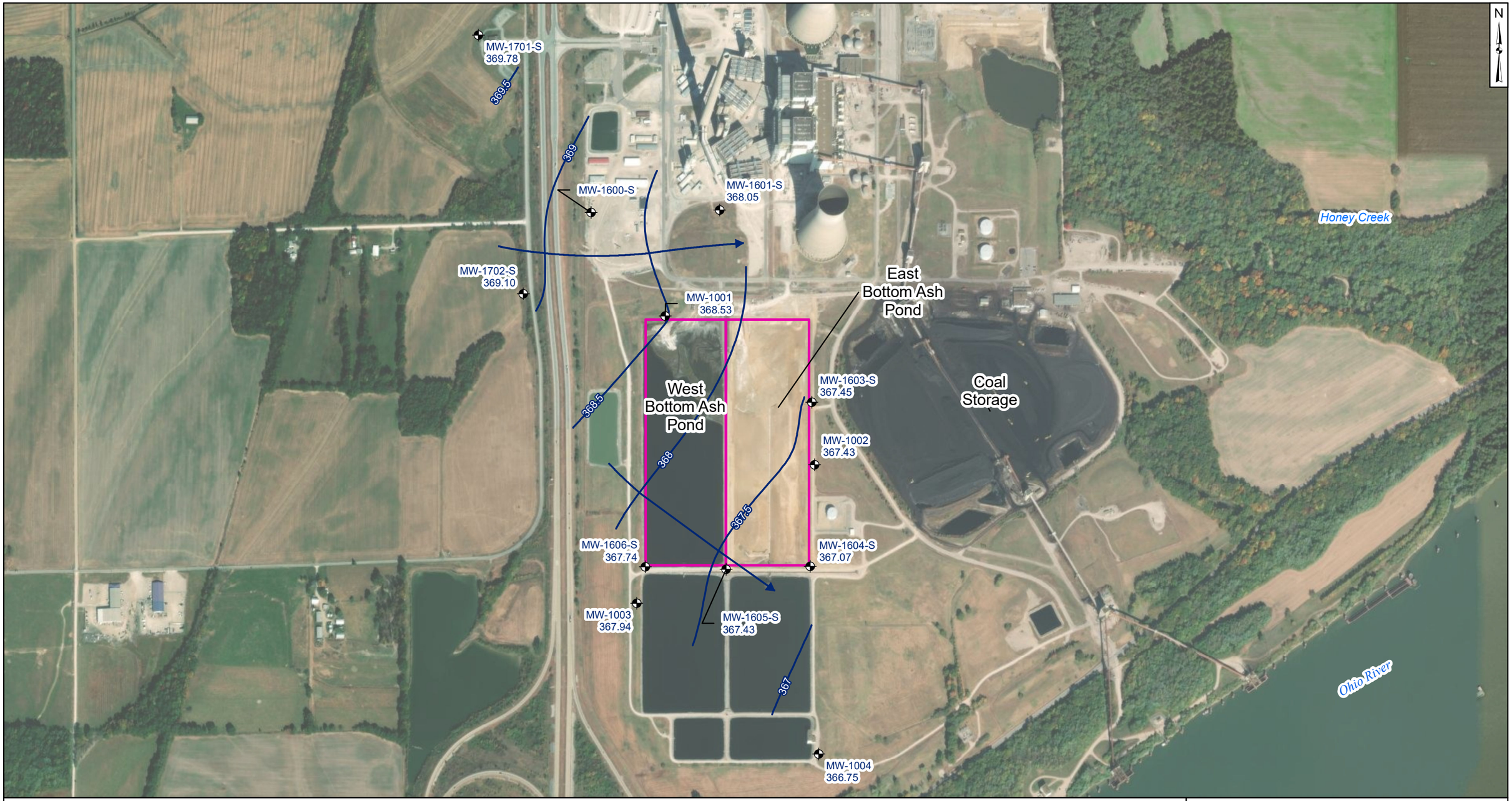
Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
12/12/2017	Detection	0.051	33.6	13.4	0.49	7.3	22.7	254
2/9/2018	Assessment	0.042	29.7	14	0.62	7.9	22.2	281
6/4/2018	Assessment	0.059	38.4	14.4	0.57	7.0	26.7	276
8/13/2018	Assessment	0.057	36.9	13.6	0.55	6.3	22.0	272
9/25/2018	Assessment	0.041	36.2	14.1	0.54	6.6	20.7	266
10/30/2018	Assessment	0.09 J1	34.9	14.1	0.61	7.5	17.1	256
11/12/2018	Assessment	0.1 J1	41.5	14.5	0.56	6.8	21.5	246
5/20/2019	Assessment	0.03 J1	27.1	14.7	0.70	6.8	20.8	272
6/25/2019	Assessment	0.04 J1	36.7	14.6	0.59	7.2	22.3	284
9/10/2019	Assessment	0.04 J1	35.6	16.5	0.63	6.7	19.2	284
3/9/2020	Assessment	--	--	--	--	7.2	--	--
3/11/2020	Assessment	--	--	--	0.63	--	--	--
5/21/2020	Assessment	0.03 J1	37.2	14.3	0.67	7.0	23.0	276
11/17/2020	Assessment	0.04 J1	32.7	13.9	0.64	6.5	17.6	259
2/4/2021	Assessment	0.03 J1	33.7	13.5	0.70	7.5	18.1	259
5/27/2021	Assessment	0.032 J1	34.9	13.5	0.64	7.8	18.7	270
11/9/2021	Assessment	0.029 J1	34.6	13.4	0.59	7.1	17.0	260
2/16/2022	Assessment	0.028 J1	34.4	14.2	0.62	7.2	20.6	270
5/10/2022	Assessment	0.017 J1	28.6	13.7	0.68	7.1	19.1	260 L1
11/3/2022	Assessment	0.050	34.9	13.4	0.57	7.1	18.7	250
2/8/2023	Assessment	0.031 J1	34.6	14.5	0.59	7.5	20.7	270
6/1/2023	Assessment	0.023 J1	35.6 M1	14.7	0.54	7.3	20.7	280
10/31/2023	Assessment	0.035 J1	36.5	15.1	0.58	6.7	18.4	290

Table 1. Groundwater Data Summary: MW-1702S
Rockport - BAP
Appendix IV Constituents

Collection Date	Monitoring Program	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
2/9/2018	Assessment	0.05 J1	0.72	9.81	< 0.004 U1	0.006 J1	0.212	0.258	0.00483	0.62	0.223	< 0.0002 U1	< 0.002 U1	1.09	1.1	0.01 J1
6/4/2018	Assessment	0.05 J1	0.45	7.67	< 0.004 U1	0.04	0.124	0.07	1.231	0.57	0.077	0.006	< 0.002 U1	1.42	3.8	0.01 J1
8/13/2018	Assessment	0.13	0.47	7.14	0.005 J1	0.05	0.175	0.173	0.1628	0.55	0.188	< 0.0002 U1	--	1.15	1.8	0.03 J1
9/25/2018	Assessment	0.08	0.44	5.97	< 0.004 U1	0.008 J1	0.130	0.104	0.421	0.54	0.079	< 0.0002 U1	--	1.20	1.2	< 0.01 U1
10/30/2018	Assessment	0.05 J1	0.48	5.5	< 0.02 U1	0.11	0.2 J1	0.05 J1	0.0859	0.61	0.08 J1	< 0.009 U1	--	1 J1	1	< 0.1 U1
11/12/2018	Assessment	0.04 J1	0.42	6.27	< 0.02 U1	0.03 J1	0.2 J1	0.272	0.107	0.56	0.229	< 0.009 U1	--	1 J1	1.5	< 0.1 U1
5/20/2019	Assessment	0.09 J1	0.45	5.92	< 0.02 U1	0.28	0.475	0.058	0.56253	0.70	0.373	< 0.009 U1	< 0.002 U1	1 J1	1.5	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	0.4 J1	5.71	< 0.1 U1	< 0.05 U1	0.2 J1	< 0.1 U1	0.357	0.59	< 0.1 U1	< 0.009 U1	< 0.002 U1	< 2 U1	2.4	< 0.5 U1
9/10/2019	Assessment	0.08 J1	0.43	4.87	< 0.02 U1	0.01 J1	0.215	0.096	0.2432	0.63	0.1 J1	0.00127	< 0.002 U1	1 J1	1.3	< 0.1 U1
3/9/2020	Assessment	0.04 J1	0.42	4.46	< 0.02 U1	0.01 J1	0.335	0.03 J1	1.1358	--	< 0.05 U1	0.00128	< 0.002 U1	1 J1	1.8	< 0.1 U1
3/11/2020	Assessment	--	--	--	--	--	--	--	--	0.63	--	--	--	--	--	--
5/21/2020	Assessment	0.03 J1	0.37	4.79	< 0.02 U1	< 0.01 U1	0.208	< 0.02 U1	1.14	0.67	< 0.05 U1	0.00106	< 0.002 U1	1 J1	1.8	< 0.1 U1
11/17/2020	Assessment	0.07 J1	0.37	4.22	< 0.02 U1	0.05 J1	0.278	0.03 J1	1.17	0.64	< 0.05 U1	0.00116	< 0.002 U1	1 J1	1.3	< 0.1 U1
2/4/2021	Assessment	0.07 J1	0.48	5.59	< 0.02 U1	0.05	0.430	0.348	0.392	0.70	0.350	0.00136	< 0.002 U1	1 J1	2.0	< 0.1 U1
5/27/2021	Assessment	0.07 J1	0.30	4.51	< 0.007 U1	0.019 J1	0.20	0.028	0.55	0.64	< 0.05 U1	0.00142	< 0.002 U1	1.4	2.23	< 0.04 U1
11/9/2021	Assessment	0.02 J1	0.30	4.15	< 0.007 U1	0.017 J1	0.51	0.026	0.62	0.59	< 0.05 U1	0.00152	< 0.002 U1	1.4	1.74	< 0.04 U1
2/16/2022	Assessment	0.04 J1	0.35	3.94	< 0.007 U1	0.118	0.52	0.026	1.47	0.62	< 0.05 U1	0.00152	< 0.002 U1	1.5	2.65	< 0.04 U1
5/10/2022	Assessment	0.09 J1	0.44	4.13	< 0.007 U1	0.014 J1	0.40	0.021	0.71	0.68	< 0.05 U1	0.00099	< 0.002 U1	1.0	1.92	< 0.04 U1
11/3/2022	Assessment	0.10	0.29	3.81	0.050	0.020	0.30	0.020	0.66	0.57	0.20	0.00163	0.005	1.4	2.79	0.20
2/8/2023	Assessment	0.03 J1	0.28	3.97	< 0.007 U1	0.021	0.32	0.028	0.78	0.59	< 0.05 U1	0.00175	< 0.002 U1	1.5	4.37	< 0.04 U1
6/1/2023	Assessment	0.023 J1	0.26	3.89	< 0.007 U1	0.020	0.25 J1	0.020	0.26	0.54	< 0.05 U1	0.00152	< 0.002 U1	1.5	3.87	< 0.02 U1
10/31/2023	Assessment	0.026 J1	0.24	3.93	< 0.007 U1	0.021	0.38	0.022	1.62	0.58	< 0.05 U1	0.00174	< 0.002 U1	1.4	3.00	< 0.02 U1

Notes:
- -: Not analyzed
<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.
In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.
J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.
In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.
L1: The associated laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.
M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.
mg/L: milligrams per liter
P2: The precision on the laboratory control sample duplicate (LCSD) was above acceptance limits.
P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.
pCi/L: picocuries per liter
Q5: Sample was received with improper chemical preservation.
S7: Sample did not achieve constant weight.
SU: standard unit
µg/L: micrograms per liter

Groundwater Flow Direction Maps



Legend

- Groundwater Monitoring Well
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Bottom Ash Ponds

Notes:

1. Monitoring well coordinates and water level data (collected on February 6, 2023) provided by AEP.
2. Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC 2016) provided by AEP.
3. Only shallow screened wells were used for generating groundwater contours.
4. MW-1600S (368.73 ft) was not used to generate groundwater contours due to inconsistent or anamalous readings.
5. Groundwater elevation units are feet above mean sea level.

750 375 0 750 Feet

Potentiometric Surface Map - Uppermost Aquifer
February 2023

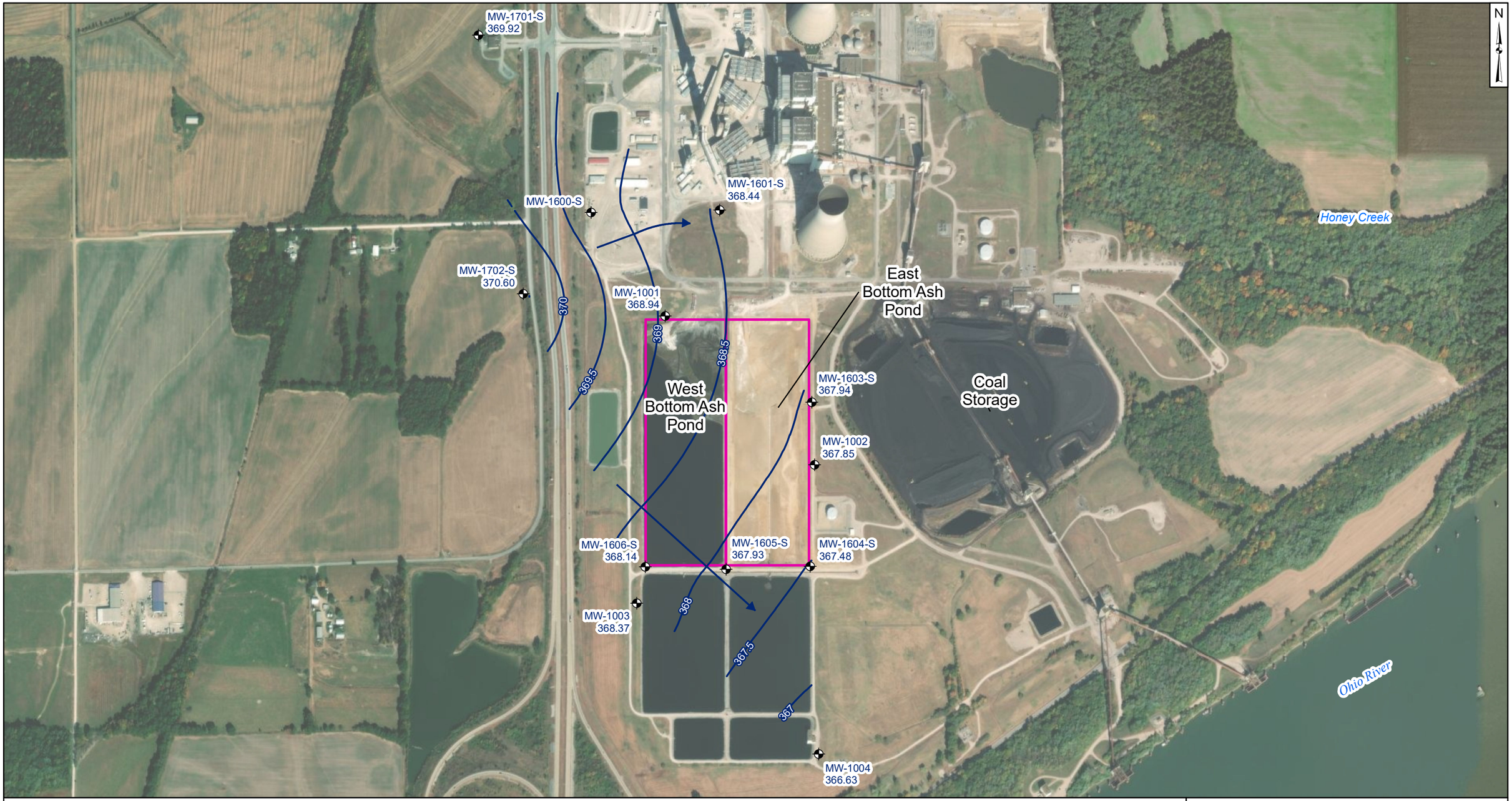
AEP-Rockport Power Plant - Bottom Ash Ponds
Rockport, Indiana

Geosyntec consultants

Columbus, Ohio | 2023/10/16

Figure **X**

P:\Projects\AEP\Groundwater Statistical Evaluation - CHA8423\Groundwater Mapping\GIS Files\MXD\Rockport\2023\Rockport_Pond_GW_Elev_Feb2023.mxd. hduff. 10/16/2023. CHA8423/08/08.



Legend

- Groundwater Monitoring Well
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Bottom Ash Ponds

Notes:

1. Monitoring well coordinates and water level data (collected on May 30, 2023) provided by AEP.
2. Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC 2016) provided by AEP.
3. Only shallow screened wells were used for generating groundwater contours.
4. MW-1600S (369.15 ft) was not used to generate groundwater contours due to inconsistent or anamalous readings.
5. Groundwater elevation units are feet above mean sea level.

750 375 0 750 Feet

Potentiometric Surface Map - Uppermost Aquifer
May 2023

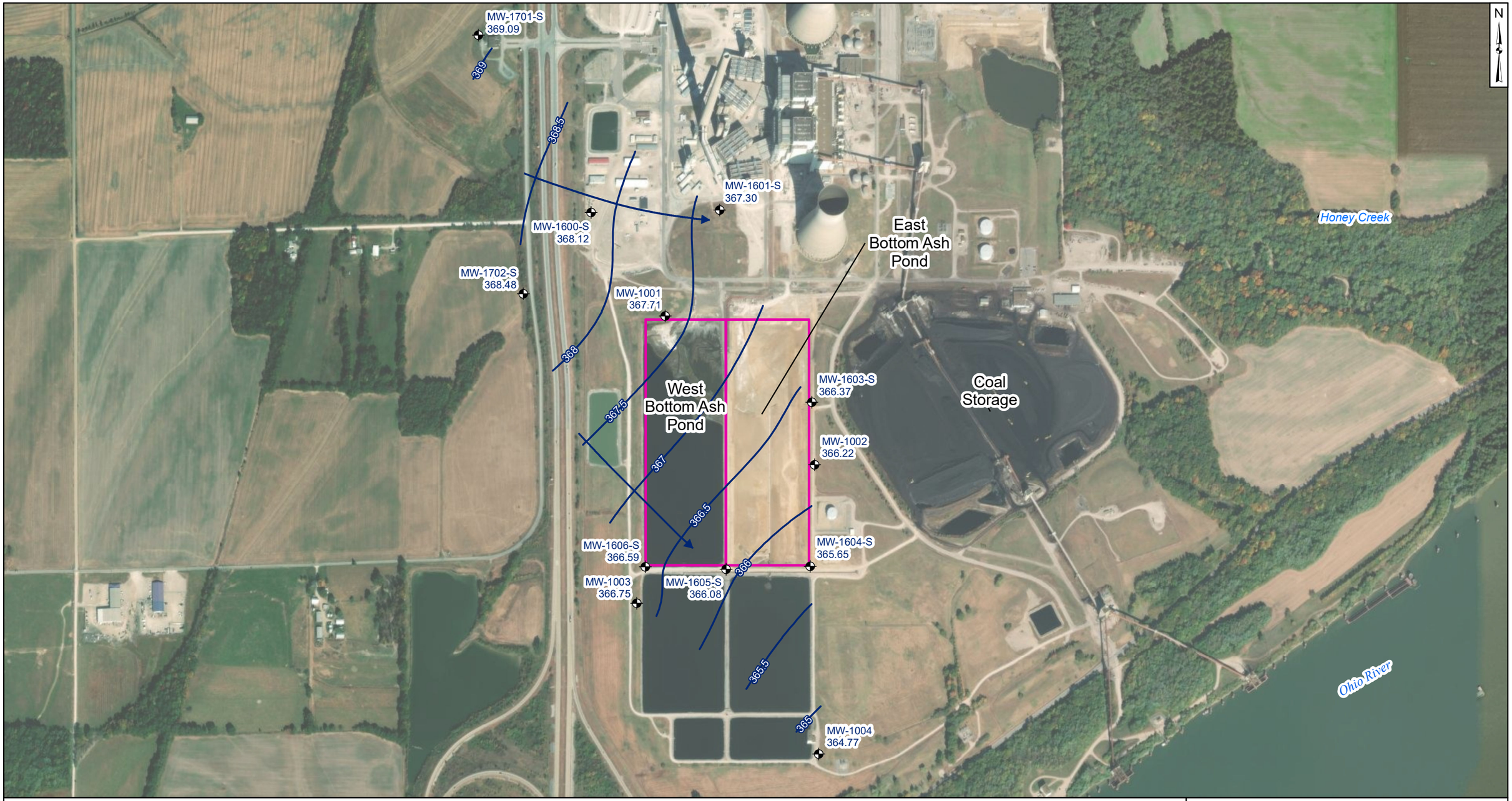
AEP-Rockport Power Plant - Bottom Ash Ponds
Rockport, Indiana

Geosyntec consultants

Columbus, Ohio | 2023/10/16

Figure
X

P:\Projects\AEP\Groundwater Statistical Evaluation - CHA8423\Groundwater Mapping\GIS Files\MXD\Rockport\2023\Rockport_Pond_GW_Elev_May2023.mxd. hduff. 10/16/2023. CHA8423/08/08.



Legend

- Groundwater Monitoring Well
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Bottom Ash Ponds

Notes:

1. Monitoring well coordinates and water level data (collected on October 30, 2023) provided by AEP.
2. Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC 2016) provided by AEP.
3. Only shallow screened wells were used for generating groundwater contours.
4. Groundwater elevation units are feet above mean sea level.

1,000 500 0 1,000 Feet

Potentiometric Surface Map - Uppermost Aquifer
October 2023

AEP-Rockport Power Plant - Bottom Ash Ponds
Rockport, Indiana

Geosyntec consultants

Columbus, Ohio | 2023/12/11

Figure **X**

\\annarbor-01\Data\Projects\AEP\Groundwater Statistical Evaluation - CHA8423\Groundwater Mapping\GIS Files\MXD\Rockport\2023\Rockport_Pond_GW_Elev_Oct2023.mxd. ASoltero. 12/11/2023. CHA8423/08/08.

Groundwater Flow Velocity Calculations

Table 1: Residence Time Calculation Summary
Rockport - Bottom Ash Ponds

Geosyntec Consultants, Inc.

CCR Management Unit	Monitoring Well	Well Diameter (inches)	2023-02		2023-05		2023-10	
			Groundwater Velocity (ft/year)	Groundwater Residence Time (days)	Groundwater Velocity (ft/year)	Groundwater Residence Time (days)	Groundwater Velocity (ft/year)	Groundwater Residence Time (days)
Bottom Ash Ponds	MW-1600D [1]	2.0	NC	NC	NC	NC	226	0.27
	MW-1600I [1]	2.0	NC	NC	NC	NC	161	0.38
	MW-1600S [1]	2.0	NC	NC	NC	NC	387	0.16
	MW-1601D [1]	2.0	145	0.42	205	0.30	277	0.22
	MW-1601I [1]	2.0	238	0.26	325	0.19	367	0.17
	MW-1601S [1]	2.0	465	0.13	479	0.13	525	0.12
	MW-1002 [2]	2.0	204	0.30	333	0.18	398	0.15
	MW-1602D [2]	2.0	NC	NC	NC	NC	640	0.10
	MW-1602I [2]	2.0	NC	NC	NC	NC	597	0.10
	MW-1603D [2]	2.0	563	0.11	594	0.10	1,400	0.04
	MW-1603I [2]	2.0	442	0.14	409	0.15	535	0.11
	MW-1603S [2]	2.0	442	0.14	432	0.14	535	0.11
	MW-1604D [2]	2.0	374	0.16	544	0.11	633	0.10
	MW-1604I [2]	2.0	244	0.25	526	0.12	570	0.11
	MW-1604S [2]	2.0	374	0.16	471	0.13	554	0.11
	MW-1605D [2]	2.0	901	0.07	809	0.08	275	0.22
	MW-1605I [2]	2.0	901	0.07	809	0.08	659	0.09
	MW-1605S [2]	2.0	350	0.17	314	0.19	577	0.11
	MW-1606D [2]	2.0	329	0.18	323	0.19	493	0.12
	MW-1606I [2]	2.0	329	0.18	382	0.16	576	0.11
	MW-1606S [2]	2.0	282	0.22	206	0.30	370	0.16

Notes:
[1] - Upgradient Well
[2] - Downgradient Well
NC - No calculation was performed

APPENDIX 2 – Statistical Analyses

The memorandums summarizing the statistical evaluation follow.

Geosyntec consultants

500 W. Wilson Bridge Road, Suite 250
Worthington, Ohio 43085
PH 614.468.0415
www.geosyntec.com

Memorandum

Date:	January 11, 2024
To:	Ben Kepchar (AEP)
Copies to:	Brian Newton (AEP)
From:	Allison Kreinberg (Geosyntec)
Subject:	Evaluation of 2023 Reissued Analytical Laboratory Data for Rockport Power Plant's East and West Bottom Ash Ponds

In accordance with United States Environmental Protection Agency (USEPA) regulations regarding the disposal of coal combustion residuals (CCR) in landfills and surface impoundments (CCR Rule; Code of Federal Regulations Title 40, Part 257, Subpart D) groundwater sampling was completed in 2023 to support assessment monitoring at the East and West Bottom Ash Ponds, an existing CCR unit at the Rockport Plant in Rockport, Indiana. After the statistical evaluation was completed using data from the first semiannual assessment monitoring event,[1] select analytical laboratory reports were reissued to correct laboratory equipment data quality assurance/quality control issues.

A review of the reissued analytical laboratory reports identified several reported lithium results that had changed (Table 1). The site-specific background value for lithium was not updated as part of the first semiannual assessment monitoring event; therefore, the lithium results at background locations were not used in the statistical evaluation before the reissued analytical laboratory reports were reviewed. Both the initial reported lithium values and the revised lithium values at downgradient locations were below the site-specific groundwater protection standard of 0.0400 milligrams per liter, and no statistically significant levels of lithium were identified during the first semiannual assessment monitoring event.[1] Therefore, no changes to the statistical outcome of the first semiannual assessment monitoring event would occur.

The revised lithium values in the reissued laboratory analytical reports will be used in future reporting and statistical evaluations.

[1] Geosyntec. 2023. *Statistical Analysis Summary – East and West Bottom Ash Ponds. Rockport Plant, Rockport, Indiana*. Geosyntec Consultants, Inc. November.

Table 1. 2023 Revised Analytical Results
Rockport - Bottom Ash Pond

Geosyntec Consultants, Inc.

Sample Date	Well ID	CCR Unit	Well Location	Constituent	Initial Reported Value	Revised Value
5/30/2023	MW-1605D	BAP	Downgradient	Lithium	0.0015	0.00152
5/30/2023	MW-1605I	BAP	Downgradient	Lithium	0.0046	0.00463
5/30/2023	MW-1606D	BAP	Downgradient	Lithium	< 0.0006	0.00055
5/31/2023	MW-1600D	BAP	Upgradient	Lithium	0.005	0.00498
5/31/2023	MW-1600I	BAP	Upgradient	Lithium	0.0057	0.00573
5/31/2023	MW-1601S	BAP	Upgradient	Lithium	0.0054	0.00536
5/31/2023	MW-1702S	BAP	Upgradient	Lithium	0.0015	0.00152
5/31/2023	MW-1701D	BAP	Upgradient	Lithium	0.0058	0.00579
5/31/2023	MW-1002	BAP	Downgradient	Lithium	0.0048	0.00482
5/31/2023	MW-1602I	BAP	Downgradient	Lithium	0.0056	0.00561
5/31/2023	MW-1602D	BAP	Downgradient	Lithium	0.0021	0.00213
5/31/2023	MW-1603I	BAP	Downgradient	Lithium	0.0053	0.00528
5/31/2023	MW-1603S	BAP	Downgradient	Lithium	0.0028	0.00281
5/31/2023	MW-1604D	BAP	Downgradient	Lithium	0.0013	0.00126
5/31/2023	MW-1604I	BAP	Downgradient	Lithium	0.0055	0.00552
5/31/2023	MW-1606S	BAP	Downgradient	Lithium	0.0079	0.00785
6/1/2023	MW-1701I	BAP	Upgradient	Lithium	0.0054	0.00544
6/1/2023	MW-1701S	BAP	Upgradient	Lithium	0.0048	0.00481
6/1/2023	MW-1702D	BAP	Upgradient	Lithium	0.0041	0.00414
6/1/2023	MW-1702I	BAP	Upgradient	Lithium	0.0041	0.00412
5/31/2023	MW-1603D	BAP	Downgradient	Lithium	0.0033	0.00331

Notes:
1. All results are shown in milligrams per liter (mg/L).
2. Non-detect values are shown as less than the method detection limit.

STATISTICAL ANALYSIS SUMMARY
BOTTOM ASH POND
Rockport Plant
Rockport, Indiana

Submitted to

1 Riverside Plaza
Columbus, Ohio 43215-2372

Submitted by

Geosyntec consultants

engineers | scientists | innovators

500 West Wilson Bridge Road
Suite 250
Worthington, Ohio 43085

February 17, 2023
CHA8500B

TABLE OF CONTENTS

SECTION 1 Executive Summary 1
SECTION 2 Fly Ash Pond Evaluation 2-1
2.1 Data Validation & QA/QC 2-1
2.2 Statistical Analysis 2-1
2.2.1 Establishment of GWPSs 2-1
2.2.2 Evaluation of Potential Appendix IV SSLs 2-2
2.2.3 Establishment of Appendix III Prediction Limits 2-2
2.2.4 Evaluation of Potential Appendix III SSIs 2-3
2.3 Conclusions 2-4
SECTION 3 References 3-1

LIST OF TABLES

Table 1 Groundwater Data Summary
Table 2 Appendix IV Groundwater Protection Standards
Table 3 Appendix III Data Summary

LIST OF ATTACHMENTS

Attachment A Certification by Qualified Professional Engineer
Attachment B Statistical Analysis Output

LIST OF ACRONYMS AND ABBREVIATIONS

BAP	Bottom Ash Pond
CCR	Coal Combustion Residuals
CCV	Continuing Calibration Verification
CFR	Code of Federal Regulations
GWPS	Groundwater Protection Standard
LCL	Lower Confidence Limit
LFB	Laboratory Fortified Blanks
LPL	Lower Prediction Limit
LRB	Laboratory Reagent Blanks
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NELAP	National Environmental Laboratory Accreditation Program
PQL	Practical Quantitation Limit
QA	Quality Assurance
QC	Quality Control
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
SU	Standard Units
TDS	Total Dissolved Solids
UPL	Upper Prediction Limit
USEPA	United States Environmental Protection Agency
UTL	Upper Tolerance Limit

SECTION 1

EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency's (USEPA's) regulations regarding the disposal of coal combustion residuals (CCR) in landfills and surface impoundments (40 CFR 257.90-257.98, "CCR rule"), groundwater monitoring has been conducted at the Bottom Ash Pond (BAP), an existing CCR unit at the Rockport Power Plant located in Rockport, Indiana. Recent groundwater monitoring results were compared to site-specific groundwater protection standards (GWPSs) to identify potential exceedances.

Based on detection monitoring conducted in 2017 and 2018, statistically significant increases (SSIs) over background were concluded for boron, calcium, chloride, fluoride, total dissolved solids (TDS), and sulfate at the BAP. An alternative source was not identified at the time, so the BAP initiated assessment monitoring in 2018. GWPSs were set in accordance with 40 CFR 257.95(d)(2) and a statistical evaluation of the assessment monitoring data was conducted. During 2022, an annual sampling event for Appendix III parameters and Appendix IV parameters required by 40 CFR 257.95(b) was completed in February, and semiannual sampling events for Appendix III parameters and Appendix IV parameters, as required by 40 CFR 257.95(d)(1), were completed in May and November. During the February and May 2022 assessment monitoring events, no statistically significant levels (SSLs) of Appendix IV parameters were observed (Geosyntec, 2022a). Concentrations of Appendix III parameters remained above background levels; thus, the unit remained in assessment monitoring. The results of the November 2022 assessment event are documented in this report.

Prior to conducting the statistical analyses, the groundwater data underwent several validation tests, including those for completeness, sample tracking accuracy, transcription errors, and consistent use of measurement units. No data quality issues were identified which would impact data usability.

The monitoring data were submitted to Groundwater Stats Consulting, LLC for statistical analysis. GWPSs were re-established for the Appendix IV parameters. Confidence intervals were calculated for Appendix IV parameters at the compliance wells to assess whether SSLs of Appendix IV parameters were present above the GWPS. No SSLs were identified. Concentrations of Appendix III parameters remained above background levels; thus, the unit will remain in assessment monitoring. Certification of the selected statistical methods by a qualified professional engineer is documented in Attachment A.

SECTION 2

FLY ASH POND EVALUATION

2.1 Data Validation & QA/QC

During the assessment monitoring program, one set of samples was collected for analysis from upgradient and downgradient wells to meet the requirements of 257.95(d)(1) in November 2022. Samples from November 2022 were analyzed for all Appendix III and Appendix IV parameters. A summary of data collected during this assessment monitoring event is presented in Table 1.

Chemical analysis was completed by an analytical laboratory certified by the National Environmental Laboratory Accreditation Program (NELAP). Quality assurance and quality control (QA/QC) samples completed by the analytical laboratory included the use of laboratory reagent blanks (LRBs), continuing calibration verification (CCV) samples, and laboratory fortified blanks (LFBs).

The analytical data were imported into a Microsoft Access database, where checks were completed to assess the accuracy of sample location identification and analyte identification. Where necessary, unit conversions were applied to standardize reported units across all sampling events. Exported data files were created for use with the Sanitas™ v.9.6.33 statistics software. The export file was checked against the analytical data for transcription errors and completeness. No QA/QC issues were noted which would impact data usability.

2.2 Statistical Analysis

Statistical analyses for the BAP were conducted in accordance with the October 2020 *Statistical Analysis Plan* (Geosyntec, 2020). Time series plots and results for all completed statistical tests are provided in Attachment B.

The data obtained in November 2022 were screened for potential outliers. No outliers were identified for this event.

2.2.1 Establishment of GWPSs

A GWPS was established for each Appendix IV parameter in accordance with 40 CFR 257.95(h) and the *Statistical Analysis Plan* (Geosyntec, 2020). The established GWPS was determined to be the greater value of the background concentration and the maximum contaminant level (MCL) or risk-based level specified in 40 CFR 257.95(h)(2) for each Appendix IV parameter. To determine background concentrations, an upper tolerance limit (UTL) was calculated using pooled data from the background wells collected during the background monitoring and assessment monitoring events. Tolerance limits were calculated parametrically with 95% coverage and 95% confidence for combined radium. Non-parametric tolerance limits were calculated for antimony, arsenic, barium, cadmium, chromium, cobalt, fluoride, lead, lithium, molybdenum, and selenium due to

apparent non-normal distributions and for beryllium, mercury, and thallium due to a high non-detect frequency. Upper tolerance limits and the final GWPSs are summarized in Table 2.

2.2.2 Evaluation of Potential Appendix IV SSLs

A confidence interval was constructed for each Appendix IV parameter at each compliance well. Confidence limits were generally calculated parametrically ($\alpha = 0.01$); however, non-parametric confidence limits were calculated in some cases (e.g., when the data did not appear to be normally distributed or when the non-detect frequency was too high). An SSL was concluded if the lower confidence limit (LCL) exceeded the GWPS (i.e., if the entire confidence interval exceeded the GWPS). Calculated confidence limits are shown in Attachment B.

No SSLs were identified at the Rockport BAP.

2.2.3 Establishment of Appendix III Prediction Limits

Upper prediction limits (UPLs) were previously established for all Appendix III parameters following the background monitoring period. Intrawell tests were used to evaluate potential SSIs for calcium and pH, whereas interwell tests were used to evaluate potential SSIs for boron, chloride, fluoride, sulfate, and TDS. Interwell and intrawell prediction limits are updated periodically during the assessment monitoring period as sufficient data became available.

For the intrawell tests, insufficient data was available to compare against the existing background dataset. Thus, the prediction limits were not updated for the intrawell tests at this time. The intrawell prediction limits were previously calculated using historical data through May 2021 (Geosyntec, 2022b).

Prediction limits for the interwell tests were recalculated using data collected during the 2022 assessment monitoring events. New upgradient well data were tested for outliers prior to being added to the background dataset. Upgradient were data were also evaluated for statistically significant trends using the Sen's Slope/Mann-Kendall trend test, and the results are included in Attachment B.

After the revised background set was established, a parametric or non-parametric analysis was selected based on the distribution of the data and the frequency of non-detect data. Estimated results less than the reporting limit (practical quantitation limit [PQL]) and above the method detection limit (MDL) – i.e., "J-flagged" data – were considered detections and the estimated results were used in the statistical analyses. Non-parametric analyses were selected for datasets with at least 50% non-detect data or datasets that could not be normalized. Parametric analyses were selected for datasets (either transformed or untransformed) that passed the Shapiro-Wilk / Shapiro-Francía test for normality. The Kaplan-Meier non-detect adjustment was applied to datasets with between 15% and 50% non-detect data. For datasets with fewer than 15% non-detect data, non-detect data were replaced with one half of the PQL. The selected analysis (i.e., parametric or non-parametric) and transformation (where applicable) for each background dataset are shown in Attachment B.

Interwell UPLs were updated for boron, chloride, fluoride, sulfate, and TDS using historical data through November 2022. Previously calculated intrawell UPLs for calcium and pH, and intrawell lower prediction limits (LPLs) for pH, using all historical data through May 2021 were used to represent background values. The prediction limits are summarized in Table 3. The prediction limits were calculated for a one-of-two retesting procedure; i.e., if at least one sample in a series of two does not exceed the UPL, or in the case of pH, is neither less than the LPL nor greater than the UPL, then it can be concluded that an SSI has not occurred. In practice, where the initial result does not exceed the UPL, or in the case of pH, is neither less than the LPL nor greater than the UPL, a second sample will not be collected. The retesting procedures allowed achieving an acceptably high statistical power to detect changes at downgradient wells for constituents evaluated using intrawell prediction limits.

2.2.4 Evaluation of Potential Appendix III SSIs

While no SSLs for Appendix IV parameters were identified, a review of the Appendix III results was completed to assess whether concentrations of Appendix III parameters at the compliance wells exceeded background concentrations.

Data collected during the November 2022 assessment monitoring event from each compliance well were compared to the prediction limits to evaluate results above background values. The results from this event and the prediction limits are summarized in Table 3. The following exceedances of the UPLs were noted:

- Boron concentrations exceeded the interwell UPL of 0.208 mg/L at MW-1002 (2.46 mg/L), MW-1603S (1.56 mg/L), MW-1604S (0.773 mg/L), and MW-1605S (0.574 mg/L).

- Chloride concentrations exceeded the interwell UPL of 46.4 mg/L at MW-1602D (77.5 mg/L), MW-1603S (55.8 mg/L), MW-1604S (81.1 mg/L), and MW-1605S (50.5 mg/L).

- Fluoride concentrations exceeded the interwell UPL of 0.700 mg/L at MW-1002 (0.93 mg/L), MW-1603S (1.16 mg/L), and MW-1604S (0.82 mg/L).

- pH values exceeded the intrawell UPL of 7.9 standard units (SU) at MW-1603D (11.0 SU), were below the intrawell LPL of 6.9 SU at MW-1606D (6.4 SU), and were below the intrawell LPL of 6.7 SU at MW-1606S (6.1 SU).

- Sulfate concentrations exceeded the interwell UPL of 76.0 mg/L at MW-1002 (323 mg/L), MW-1603I (134 mg/L), MW-1603S (187 mg/L), MW-1604I (94.4 mg/L), MW-1604S (148 mg/L), MW-1605I (104 mg/L), and MW-1605S (183 mg/L).

- TDS concentrations exceeded the interwell UPL of 449 mg/L at MW-1002 (650 mg/L), MW-1603I (530 mg/L), MW-1603S (510 mg/L), MW-1604S (590 mg/L), MW-1605I (470 mg/L), and MW-1605S (580 mg/L).

While the prediction limits were calculated for a one-of-two retesting procedure, SSIs were conservatively assumed if the November 2022 sample was above the UPL or below the LPL. Based on these results, concentrations of Appendix III constituents appear to be above background levels at compliance wells.

2.3 Conclusions

A semiannual assessment monitoring event was conducted at the BAP in accordance with the CCR Rule. The laboratory and field data were reviewed prior to statistical analysis, with no QA/QC issues identified that impacted data usability. A review of outliers identified no potential outliers in the November 2022 data. GWPSs were established for the Appendix IV parameters. A confidence interval was constructed at each compliance well for each Appendix IV parameter; SSLs were concluded if the entire confidence interval exceeded the GWPS. No SSLs were identified.

The interwell prediction limits for boron, chloride, fluoride, sulfate, and TDS were updated to incorporate more recent data. Appendix III parameters were compared to prediction limits, with exceedances identified for boron, chloride, fluoride, pH, sulfate, and TDS.

Based on this evaluation, the Rockport BAP CCR unit will remain in assessment monitoring.

SECTION 3

REFERENCES

Geosyntec Consultants (Geosyntec). 2020. Statistical Analysis Plan. October 2020.

Geosyntec. 2022a. Statistical Analysis Summary – Bottom Ash Pond, Rockport, Rockport, Indiana. August 19, 2022.

Geosyntec. 2022b. Statistical Analysis Summary – Bottom Ash Pond, Rockport, Rockport, Indiana. March 1, 2022.

TABLES

Table 1 - Groundwater Data Summary
Rockport Plant - Bottom Ash Pond

Geosyntec Consultants, Inc.

Parameter	Unit	MW-1002	MW-1600D	MW-1600I	MW-1600S	MW-1601D	MW-1601I	MW-1601S	MW-1602D		MW-1602I	
		10/31/2022	11/1/2022	11/1/2022	11/1/2022	11/1/2022	11/1/2022	11/1/2022	11/1/2022	11/3/2022	10/31/2022	11/3/2022
Antimony	µg/L	0.04 J1	0.1 U1	0.04 J1	0.03 J1	0.1 U1	0.1 U1	0.1 U1	0.1 U1	--	0.02 J1	--
Arsenic	µg/L	0.23	16.0	22.0	0.35	11.5	18.5	2.17	10.1	--	21.5	--
Barium	µg/L	18.2	782	679	22.9	515	593	30.4	451	--	98.2	--
Beryllium	µg/L	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	--	0.05 U1	--
Boron	mg/L	2.46	0.017 J1	0.021 J1	0.043 J1	0.031 J1	0.025 J1	0.140	0.053	--	0.041 J1	--
Cadmium	µg/L	0.028	0.02 U1	0.008 J1	0.014 J1	0.004 J1	0.02 U1	0.02 U1	0.02 U1	--	0.02 U1	--
Calcium	mg/L	58.4	77.2	72.9	57.2	85.5	81.1	68.3	65.5	--	68.4	--
Chloride	mg/L	40.9	29.4	25.8	35.7	18.8	29.8	33.7	--	77.5	--	22.5
Chromium	µg/L	0.16 J1	0.24	0.33	0.26	0.21	0.25	0.25	0.27	--	0.21	--
Cobalt	µg/L	0.777	0.044	1.25	0.030	0.033	1.19	0.049	0.027	--	1.05	--
Combined Radium	pCi/L	0.51	1.82	1.4	0.72	1.28	1.16	1.09	2.2	--	0.86	--
Fluoride	mg/L	0.93	0.22	0.24	0.37	0.18	0.24	0.38	--	0.32	--	0.29
Lead	µg/L	0.2 U1	0.2 U1	0.20	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	--	0.2 U1	--
Lithium	mg/L	0.00571	0.00543	0.00690	0.0154	0.00129	0.00682	0.00537	0.00241	--	0.00509	--
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	--	0.005 U1	--
Molybdenum	µg/L	12.6	2.2	1.6	0.4 J1	3.2	2.2	1.9	3.3	--	2.2	--
Selenium	µg/L	0.5 U1	0.5 U1	0.5 U1	1.13	0.5 U1	0.5 U1	1.0	0.5 U1	--	0.5 U1	--
Sulfate	mg/L	323	43.3	52.2	53.3	17.8	49.9	62.2	--	21.8	--	60.2
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	--	0.2 U1	--
Total Dissolved Solids	mg/L	650	370	410	380	400	420	390	--	430	--	360
pH	SU	5.56	6.49	6.33	6.65	6.76	6.96	7.14	7.04	--	6.58	--

Notes:
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: picocuries per liter
SU: standard unit
U1: Not detected at or above method detection limit (MDL). For statistical analysis, parameters which were not detected were replaced with the reporting limit.
J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.
M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.
P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.
--: Not measured

Table 1 - Groundwater Data Summary
Rockport Plant - Bottom Ash Pond

Parameter	Unit	MW-1603D	MW-1603I	MW-1603S	MW-1604D	MW-1604I	MW-1604S	MW-1605D	MW-1605I	MW-1605S
		11/2/2022	11/2/2022	11/2/2022	10/31/2022	11/1/2022	10/31/2022	11/1/2022	11/1/2022	11/1/2022
Antimony	µg/L	0.1 U1	0.1 U1	0.04 J1	0.1 U1	0.02 J1	0.05 J1	0.1 U1	0.06 J1	0.03 J1
Arsenic	µg/L	14.2	12.8	0.18	18.2	19.7	0.17	21.8	21.2	0.54
Barium	µg/L	128 P3	79.8	8.82	273	94.2	17.2	453	128	5.70
Beryllium	µg/L	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1
Boron	mg/L	0.032 J1	0.131	1.56	0.023 J1	0.066	0.773	0.017 J1	0.059	0.574
Cadmium	µg/L	0.02 U1	0.02 U1	0.021	0.02 U1	0.02 U1	0.033	0.02 U1	0.006 J1	0.042
Calcium	mg/L	83.8 M1, P3	86.7	43.9	69.4	63.4	87.5	75.6	76.0	72.6 M1, P3
Chloride	mg/L	29.7	31.4	55.8	15.4	39.4	81.1	24.1	35.7	50.5
Chromium	µg/L	0.28	0.21	0.36	0.26	0.25	0.19 J1	0.19 J1	0.22	0.52
Cobalt	µg/L	0.237	1.24	0.506	0.071	0.597	0.295	0.029	1.18	0.472
Combined Radium	pCi/L	1.48	1.39	1.22	1.2	1.36	0.46	2.1	1.17	1.24
Fluoride	mg/L	0.28	0.40	1.16	0.26	0.36	0.82	0.20	0.21	0.50
Lead	µg/L	0.2 U1	0.2 U1	0.2 U1	0.12 J1	0.07 J1	0.2 U1	0.2 U1	0.14 J1	0.2 U1
Lithium	mg/L	0.00347	0.00798	0.00337	0.00154	0.00613	0.0110	0.00153	0.00507	0.0106
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1
Molybdenum	µg/L	3.3	6.5	0.3 J1	2.5	2.0	3.1	1.9	1.3	1.8
Selenium	µg/L	0.5 U1	0.5 U1	0.20 J1	0.5 U1	0.5 U1	0.16 J1	0.5 U1	0.5 U1	0.09 J1
Sulfate	mg/L	39.8	134	187	19.0	94.4	148	38.3	104	183
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.04 J1	0.2 U1
Total Dissolved Solids	mg/L	380	530	510	310	420	590	350	470	580
pH	SU	11	7.24	6.75	7	7.34	7.19	7.15	7.21	7.11

Notes:
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: picocuries per liter
SU: standard unit
U1: Not detected at or above method detection limit (MDL). For statistical analysis, parameters which were not detected were replaced with the reporting limit.
J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.
M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.
P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.
--: Not measured

Table 1 - Groundwater Data Summary
Rockport Plant - Bottom Ash Pond

Geosyntec Consultants, Inc.

Parameter	Unit	MW-1606D	MW-1606I	MW-1606S	MW-1701D	MW-1701I	MW-1701S	MW-1702D	MW-1702I	MW-1702S
		11/1/2022	11/1/2022	11/1/2022	11/2/2022	11/2/2022	11/2/2022	11/3/2022	11/3/2022	11/3/2022
Antimony	µg/L	0.1 U1	0.1 U1	0.20	0.05 J1	0.03 J1	0.02 J1	0.10	0.10	0.10
Arsenic	µg/L	18.5	11.2	84.0	9.35	6.22	0.36	36.2	79.1	0.29
Barium	µg/L	500	54.1	64.1	59.5	37.2	10.9	209	114	3.81
Beryllium	µg/L	0.05 U1	0.05 U1	0.017 J1	0.05 U1	0.05 U1	0.05 U1	0.050	0.050	0.050
Boron	mg/L	0.017 J1	0.013 J1	0.024 J1	0.023 J1	0.020 J1	0.017 J1	0.050	0.050	0.050
Cadmium	µg/L	0.02 U1	0.02 U1	0.007 J1	0.02 U1	0.02 U1	0.009 J1	0.082	0.020	0.020
Calcium	mg/L	83.3	58.5	63.3	67.4	63.4	56.3	76.8	69.2 M1	34.9
Chloride	mg/L	27.3	17.2	16.6	15.2	14.7	21.0	31.1	28.9	13.4
Chromium	µg/L	0.29	0.19 J1	0.28	0.26	0.18 J1	0.24	0.28	0.36	0.30
Cobalt	µg/L	0.039	1.04	1.43	1.45	0.727	0.049	0.642	1.75	0.020
Combined Radium	pCi/L	1.09	1.69	0.9	0.73	1.09	0.71	0.45	1.36	0.66
Fluoride	mg/L	0.18	0.21	0.20	0.34	0.42	0.38	0.19	0.23	0.57
Lead	µg/L	0.2 U1	0.2 U1	0.32	0.57	0.2 U1	0.2 U1	0.22	0.20	0.20
Lithium	mg/L	0.00051	0.00314	0.00311	0.00683	0.00596	0.00517	0.00441	0.00449	0.00163
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005	0.005	0.005
Molybdenum	µg/L	1.8	1.3	1.5	1.3	1.1	0.7	1.9	1.8	1.4
Selenium	µg/L	0.5 U1	0.5 U1	0.11 J1	0.5 U1	0.5 U1	0.56	0.50	0.50	2.79
Sulfate	mg/L	35.8	43.1	43.2	40.3	33.6	16.4	39.1	44.2	18.7
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.20	0.20	0.20
Total Dissolved Solids	mg/L	360	300	300	350	330	310	370	370	250
pH	SU	6.39	7	6.09	6.99	7.32	6.67	7.1	7.25	7.07

Notes:
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: picocuries per liter
SU: standard unit
U1: Not detected at or above method detection limit (MDL). For statistical analysis, parameters which were not detected were replaced with the reporting limit.
J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.
M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.
P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.
--: Not measured

Table 2: Appendix IV Groundwater Protection Standards
Rockport Plant - Bottom Ash Pond

Geosyntec Consultants, Inc.

Constituent Name	MCL	CCR Rule-Specified	Calculated UTL	GWPS
Antimony, Total (mg/L)	0.00600		0.000440	0.00600
Arsenic, Total (mg/L)	0.0100		0.0791	0.0791
Barium, Total (mg/L)	2.00		0.997	2.00
Beryllium, Total (mg/L)	0.00400		0.000106	0.00400
Cadmium, Total (mg/L)	0.00500		0.000280	0.00500
Chromium, Total (mg/L)	0.100		0.00413	0.100
Cobalt, Total (mg/L)	n/a	0.00600	0.00995	0.00995
Combined Radium, Total (pCi/L)	5.00		2.86	5.00
Fluoride, Total (mg/L)	4.00		0.700	4.00
Lead, Total (mg/L)	0.0150		0.00497	0.0150
Lithium, Total (mg/L)	n/a	0.0400	0.0380	0.0400
Mercury, Total (mg/L)	0.00200		0.00000500	0.00200
Molybdenum, Total (mg/L)	n/a	0.100	0.00867	0.100
Selenium, Total (mg/L)	0.0500		0.00380	0.0500
Thallium, Total (mg/L)	0.00200		0.0510	0.0510

Notes:
MCL = Maximum Contaminant Level
CCR = Coal Combustion Residual
GWPS = Groundwater Protection Standard
Calculated UTL (Upper Tolerance Limit) represents site-specific background values.
Grey cells indicate the GWPS is based on the calculated UTL, which is higher than the MCL or CCR Rule-specified value.

Table 3: Appendix III Data Summary
Rockport - Bottom Ash Pond

Geosyntec Consultants, Inc.

Analyte	Unit	Description	MW-1002	MW-1602D	MW-1602I	MW-1603D	MW-1603I	MW-1603S	MW-1604D	MW-1604I	MW-1604S	MW-1605D	MW-1605I	MW-1605S	MW-1606D	MW-1606I	MW-1606S
			10/31/2022	11/1/2022*	10/31/2022*	11/2/2022	11/2/2022	11/2/2022	10/31/2022	11/1/2022	10/31/2022	11/1/2022	11/1/2022	11/1/2022	11/1/2022	11/1/2022	11/1/2022
Boron	mg/L	Interwell Background Value (UPL)	0.208														
		Analytical Result	**2.46**	0.053	0.041	0.032	0.131	**1.56**	0.023	0.066	**0.773**	0.017	0.059	**0.574**	0.017	0.013	0.024
Calcium	mg/L	Intrawell Background Value (UPL)	85.6	82.9	90.9	97.2	105.1	85.0	77.6	89.2	117.6	97.0	107.3	91.4	91.2	91.9	76.1
		Analytical Result	58.4	65.5	68.4	83.8	86.7	43.9	69.4	63.4	87.5	75.6	76.0	72.6	83.3	58.5	63.3
Chloride	mg/L	Interwell Background Value (UPL)	46.4														
		Analytical Result	40.9	**77.5**	22.5	29.7	31.4	**55.8**	15.4	39.4	**81.1**	24.1	35.7	**50.5**	27.3	17.2	16.6
Fluoride	mg/L	Interwell Background Value (UPL)	0.700														
		Analytical Result	**0.93**	0.32	0.29	0.28	0.40	**1.16**	0.26	0.36	**0.82**	0.20	0.21	0.50	0.18	0.21	0.20
pH	SU	Intrawell Background Value (UPL)	8.0	8.2	7.9	7.9	8.1	7.7	7.8	8.1	8.2	7.5	7.6	7.6	8.4	8.5	7.9
		Intrawell Background Value (LPL)	5.6	6.3	6.6	6.3	6.6	6.2	6.4	6.6	6.6	6.7	6.7	6.6	6.9	6.3	6.7
		Analytical Result	5.6	7.0	6.6	**11.0**	7.2	6.8	7.0	7.3	7.2	7.2	7.2	7.1	**6.4**	7.0	**6.1**
Sulfate	mg/L	Interwell Background Value (UPL)	76.0														
		Analytical Result	**323**	21.8	60.2	39.8	**134**	**187**	19.0	**94.4**	**148**	38.3	**104**	**183**	35.8	43.1	43.2
Total Dissolved Solids	mg/L	Interwell Background Value (UPL)	448.8														
		Analytical Result	**650**	430	360	380	**530**	**510**	310	420	**590**	350	**470**	**580**	360	300	300

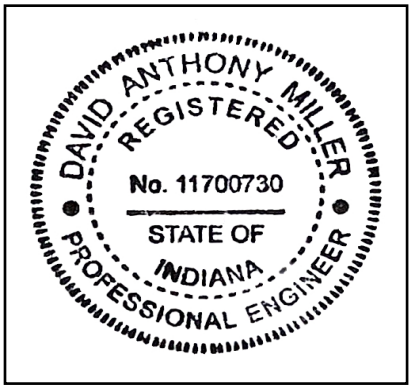
Notes:
UPL: Upper prediction limit
LPL: Lower prediction limit
Bold values exceed the background value.
Background values are shaded gray.
*MW-1602D and MW-1602I were resampled on 11/3/2022 for anions and total dissolved solids.

ATTACHMENT A

Certification by a Qualified Professional Engineer

Certification by Qualified Professional Engineer

I certify that the selected and above described statistical method is appropriate for evaluating the groundwater monitoring data for the Rockport Bottom Ash Pond CCR management area and that the requirements of 40 CFR 257.93(f) have been met.



David Anthony Miller

Printed Name of Licensed Professional Engineer

David Anthony Miller

Signature

11700730	Indiana	02.27.23
License Number	Licensing State	Date

ATTACHMENT B
Statistical Analysis Output

GROUNDWATER STATS CONSULTING

January 10, 2023

Geosyntec Consultants
Attn: Ms. Allison Kreinberg
500 W. Wilson Bridge Road, Suite 250
Worthington, OH 43085

Re: Rockport Bottom Ash Pond
Background Update & November 2022 Assessment Monitoring Analysis

Dear Ms. Kreinberg,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide statistical analysis and background update of interwell statistical limits through 2022 for American Electric Power Inc.'s Rockport Bottom Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at the site for the CCR program in 2016. The monitoring well network, as provided by Geosyntec Consultants, consists of the following:

- **Upgradient wells:** MW-1600D, MW-1600I, MW-1600S, MW-1601D, MW-1601I, MW-1601S; MW-1701S, MW-1702D, MW-1702I, MW-1702S, MW-1701D, and MW-1701I
- **Downgradient wells:** MW-1002, MW-1602D, MW-1602I, MW-1603D, MW-1603I, MW-1603S, MW-1604D, MW-1604I, MW-1604S, MW-1605D, MW-1605I, MW-1605S, MW-1606D, MW-1606I, and MW-1606S

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The statistical analysis was conducted according to the January 2018 screening evaluation prepared by GSC and approved by Dr. Kirk Cameron.

The CCR program consists of the following constituents listed below. The terms "constituent" and "parameter" are interchangeable.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Time series plots and box plots for Appendix III and IV parameters are provided for all wells (Figures A and B, respectively). Values which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the time series plots. A summary of flagged values follows this letter (Figure C). The time series plots are used to evaluate concentrations over time and between wells, to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between wells.

Due to varying detection limits in background data sets due to improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects. In some cases, the reporting limit provided by the laboratory contains varying limits for a given parameter; therefore, the substitution may differ from well to well. This generally gives the most conservative limit in each case.

For regulatory comparison of current observations against statistical limits for Appendix III constituents, the annual site-wide false positive rate is based on the USEPA Unified Guidance (2009) recommendation of 10% (5% for each semi-annual sample event). Power curves are included with this report to demonstrate that the selected statistical methods provide sufficient power to detect a change at any of the downgradient wells which complies with the USEPA Unified Guidance recommendation. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following:

Semi-Annual Sampling
Intrawell Prediction Limits = 1-of-2 resample plan
Interwell Prediction Limits = 1-of-2 resample plan
Constituents, c=7
Downgradient wells, w=15

Note that previous analyses utilized a 1-of-3 resample plan for parameters that use intrawell statistical methods; however, power curves demonstrate that the increased number of samples in background provides sufficient power using the 1-of-2 resample plan.

Summary of Statistical Methods:

1) Intrawell prediction limits, combined with a 1-of-2 resample plan for calcium and pH
2) Interwell prediction limits combined with a 1-of-2 resample plan for boron, chloride, fluoride, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the in background statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Note that values shown on data pages reflect raw data as reported by the laboratory. When non-detects have been substituted in the statistical analysis with one-half of the most reporting limit due to data sets containing <15% non-detects as described above, values are displayed as the original reporting limit.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to

accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. In some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summaries

November 2020

As mentioned above, in the intrawell case, data for all wells and constituents are re-evaluated when a minimum of 4 new data points are available. Both calcium and pH lacked sufficient data to update background, and therefore, intrawell prediction limits for these constituents were not updated. Intrawell prediction limits, combined with a 1-of-3 resample plan, used all historical data through September 2019 to evaluate compliance samples, and a summary of those findings was submitted at that time.

For parameters tested using interwell analyses, the time series graphs indicated stable data at each upgradient well; therefore, no trend tests were performed on these data. All interwell prediction limits, combined with a 1-of-2 resample plan, were updated with upgradient well data through November 2020 and time series plots accompanied the updated limits.

January 2022

<u>Outlier Analysis</u>

Prior to updating background data, Tukey's outlier test and visual screening were used to re-evaluate data through May 2021 at all wells for parameters using intrawell prediction limits (calcium and pH) and through November 2021 at all upgradient wells for parameters utilizing interwell prediction limits (boron, chloride, fluoride, sulfate, and TDS). For calcium and pH, Tukey's outlier test on all wells identified one value for calcium as an outlier and several values for pH. All values were flagged as outliers; however, only the highest and lowest values were flagged for pH at well MW-1606D as the value of 8.37 SU

appeared to be similar to other concentrations within this well. No changes to previously flagged outliers were made.

For parameters which use interwell prediction limits, Tukey's outlier test identified values for boron, chloride, fluoride, sulfate, and TDS but the majority of these values were similar to remaining observations within each respective record; therefore, they were not flagged in the database. No new values were flagged as outliers and no changes were made to previously flagged outliers for Appendix III parameters using interwell statistical methods. The results were included with the report.

Intrawell - Mann-Whitney Evaluation

For constituents requiring intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through September 2019 to the new compliance samples through May 2021 at each well to evaluate whether the groups are statistically different at the 99% confidence level. When no statistically significant difference is found, background data may be updated with compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found between the two groups for the following well/constituent pairs:

Increase:

- Calcium: MW-1606D

Decrease:

- Calcium: MW-1603S, MW-1604I, and MW-1604S
- pH: MW-1605S

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data, unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. In studies, which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

Regarding calcium in downgradient well MW-1606D, which has a statistically significant increase in median, the background record was updated with compliance samples since the magnitude of the increase was marginal compared to the historical measurements, and concentrations are lower than those reported upgradient of the facility suggesting changes may be due to natural variation in groundwater quality.

Regarding well/constituent pairs with statistically significant decreases in medians, the background datasets were updated through May 2021 for the following well/constituent pairs in order to construct statistical limits that are conservative from a regulatory perspective:

- Calcium: MW-1604I and MW-1604S
- pH: MW-1605S

For the statistically significant decreasing median for calcium at downgradient well MW-1603S, the earlier portion of the background dataset was truncated to utilize only the most recent 9 measurements in order to construct statistical limits that are conservative (i.e., lower) from a regulatory perspective. These observations were lower than some historical values and appear more stable.

All records for calcium and pH will be re-evaluated during the next background update. A list of well/constituent pairs using a truncated portion of their data follows this letter.

Interwell – Trend Test Evaluation

For parameters which are tested using interwell prediction limits, the Sen's Slope/Mann-Kendall trend test was used to test data in upgradient wells to determine whether concentrations are statistically increasing, decreasing or stable. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Chloride: MW-1701S
- Fluoride: MW-1600D, MW-1600I, MW-1601I, MW-1701I, and MW-1701S
- Sulfate: MW-1601S

Decreasing

- Boron: MW-1701I and MW-1702S
- Chloride: MW-1600D, MW-1601I, and MW-1601S
- Sulfate: MW-1701S
- TDS: MW-1600S

Since the magnitude of the trends identified for above mentioned well/constituent was marginal relative to the concentrations, no adjustments were required for these well/constituent pairs at this time. As more data are collected, all upgradient well data will be re-evaluated for possible deselection of earlier portion of the record if the measurements no longer represent present-day groundwater quality conditions.

Appendix III Parameters – November 2022

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. Intrawell prediction limits are updated when a minimum of 4 compliance samples are available. Sufficient samples are not currently available; therefore, background limits will be updated during the Fall 2023 analysis.

Interwell prediction limits, which pool upgradient well data to establish a background limit for an individual constituent, were updated during this analysis after visual screening for new outliers. No new outliers were identified. The most recent sample from each downgradient well is compared to the interwell prediction limits to determine whether initial exceedances are present. Formal outlier and trend testing will be performed on upgradient wells for Appendix III parameters during the Fall 2023 analysis.

For some well/constituent pairs containing <15% non-detects in background, parametric prediction limits slightly changed compared to those established during the background update. An update was made to the Sanitas™ statistical software in October 2022 that determines the percentage of non-detects within a given background record rather than all records evaluated for a given constituent. Simple substitution of ½ the reporting limit is applied when the percentage of non-detects in background is <15% in accordance with the USEPA EPA Unified Guidance (2009). No significant changes resulted from this implementation.

<u>Prediction Limits</u>

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed for calcium and pH using screened background data through May 2021 at each well (Figure D). Previously flagged outliers may be seen in a lighter font and as a disconnected symbol on the graphs, and a summary of all flagged outliers follows this report (Figure C).

The interwell prediction limits for boron, chloride, fluoride, sulfate, and TDS, combined with a 1-of-2 resample plan, were constructed using all pooled upgradient data through November 2022 (Figure E).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary.

Evaluation of Appendix IV Parameters – November 2022 Sample Event

Prior to evaluating Appendix IV parameters, upgradient well data are screened through both visual screening and Tukey's outlier test for potential outliers and extreme trending patterns that would lead to artificially elevated statistical limits. Tukey's test and visual screening with time series graphs confirmed previously flagged outliers. All flagged values may be seen on the Outlier Summary following this letter (Figure C) and no changes to previously flagged outliers were made.

For the current analysis, Tukey's outlier test on pooled upgradient well data through November 2022 identified outliers for arsenic, barium, combined radium 226 + 228, fluoride, and lithium. The values identified by Tukey's test, with the exception of one high combined radium 226 + 228 value of 7.25 pCi/L which was previously flagged, were either similar to concentrations upgradient of the facility or were lower than the respective Maximum Contaminant Level (MCL); therefore, none of these values, except the aforementioned combined radium 226 + 228 value, were flagged as outliers.

Additionally, downgradient well data through November 2022 were screened through visual screening using time series graphs. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is particular justification for excluding them. No new outliers among downgradient wells were flagged during this analysis.

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data through November 2022 for Appendix IV parameters (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution and use a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. When data contained greater than 50% non-detects

or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

These background limits were compared to the Maximum Contaminant Levels (MCLs) as shown in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the confidence interval comparisons (Figure G).

Confidence Intervals

Confidence intervals were then constructed using all available data through November 2022 on downgradient wells for each of the Appendix IV parameters using the highest limit of the MCL, CCR-Rule specified, or background limit as the GWPS, as discussed above (Figure H). Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. No confidence interval exceedances were found for any of the downgradient wells. A summary of the confidence interval results follows this letter.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Rockport Bottom Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

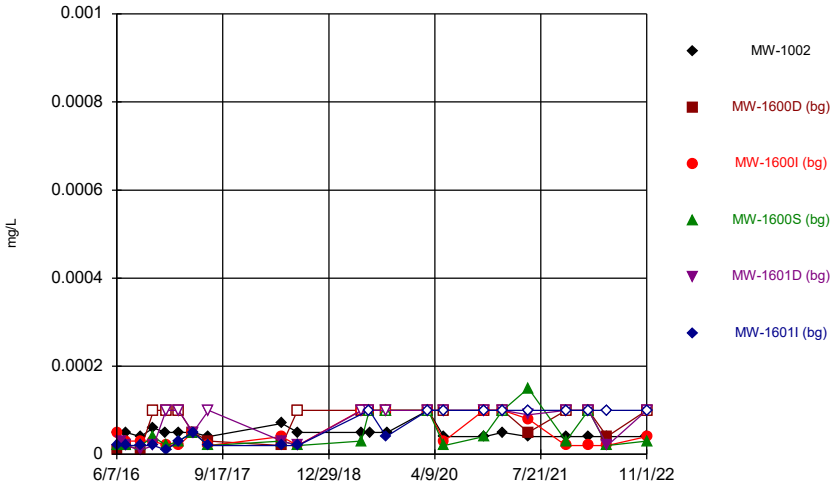
Andrew Collins
Project Manager

Kristina Rayner
Senior Statistician

FIGURE A
Time Series

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

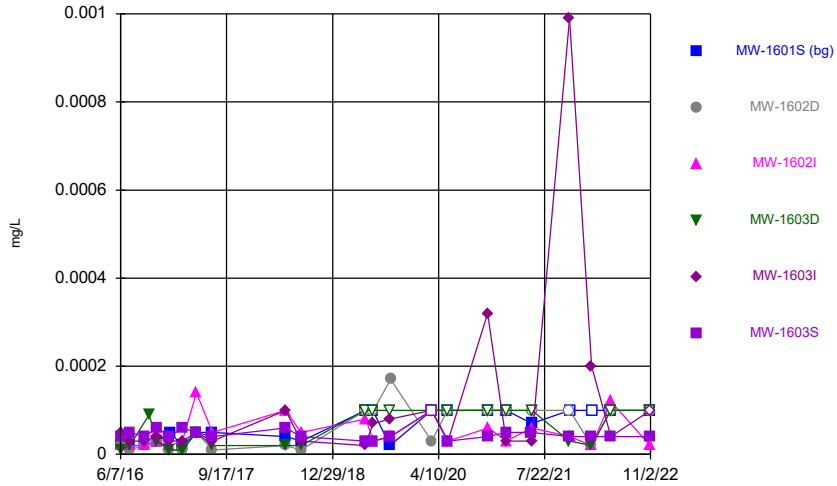
Time Series



Constituent: Antimony, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

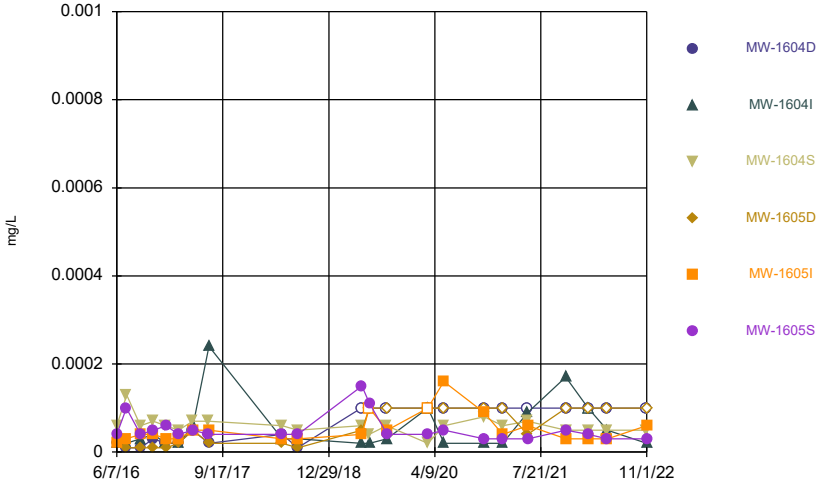
Time Series



Constituent: Antimony, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

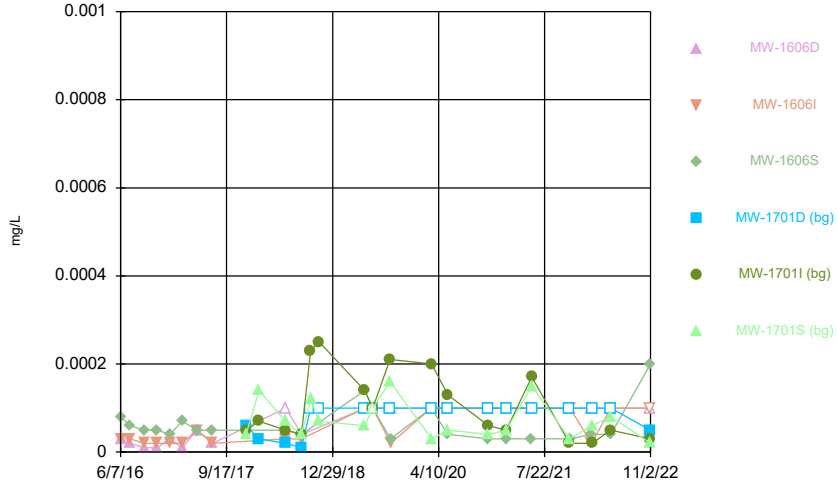
Time Series



Constituent: Antimony, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

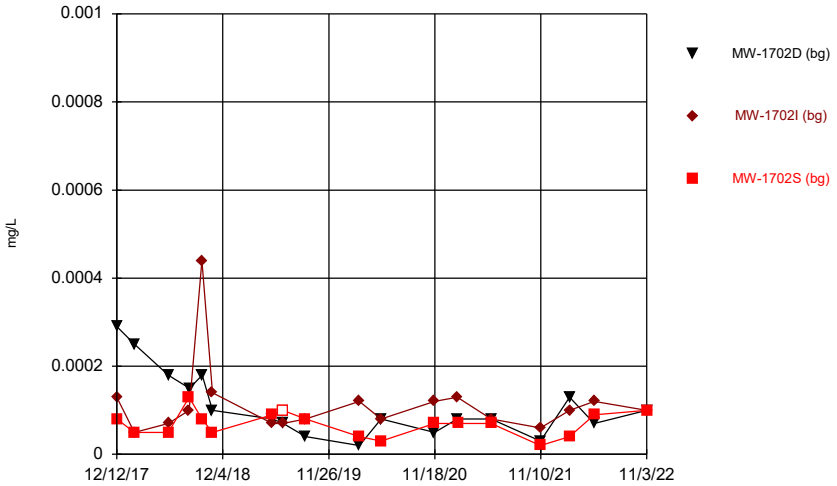
Time Series



Constituent: Antimony, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

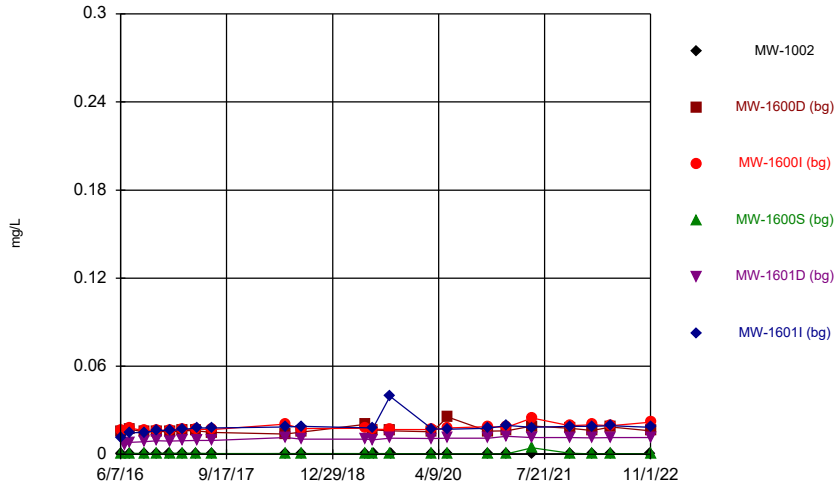
Time Series



Constituent: Antimony, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

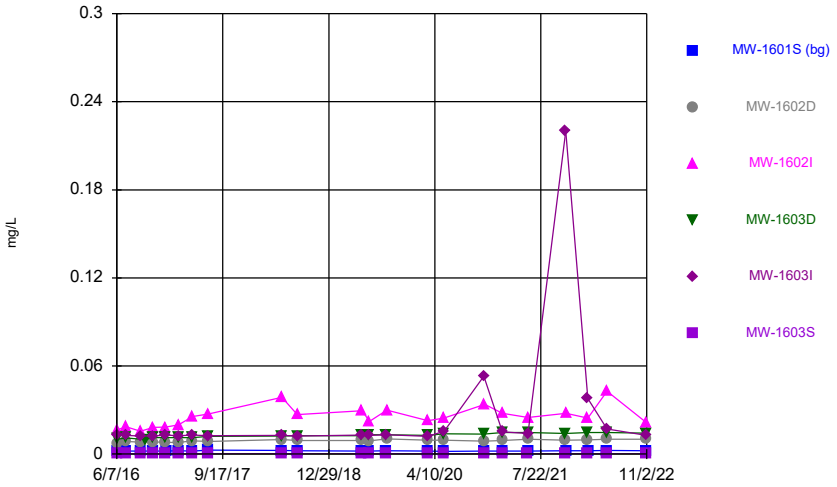
Time Series



Constituent: Arsenic, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

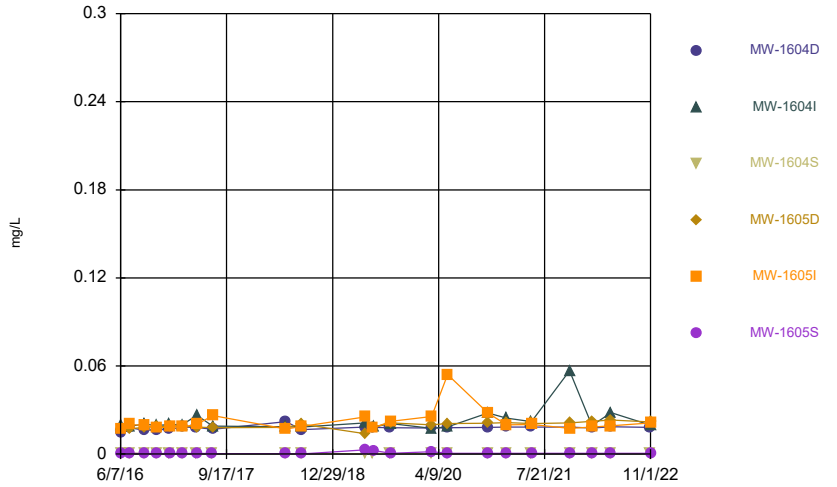
Time Series



Constituent: Arsenic, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

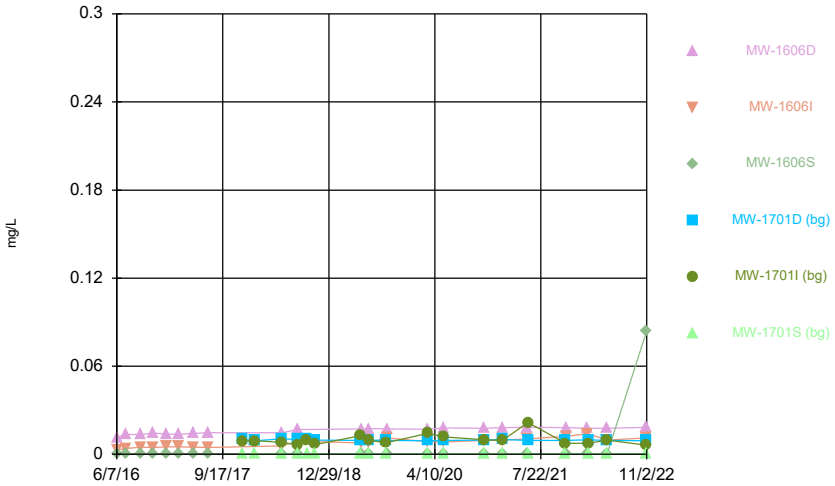
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Arsenic, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

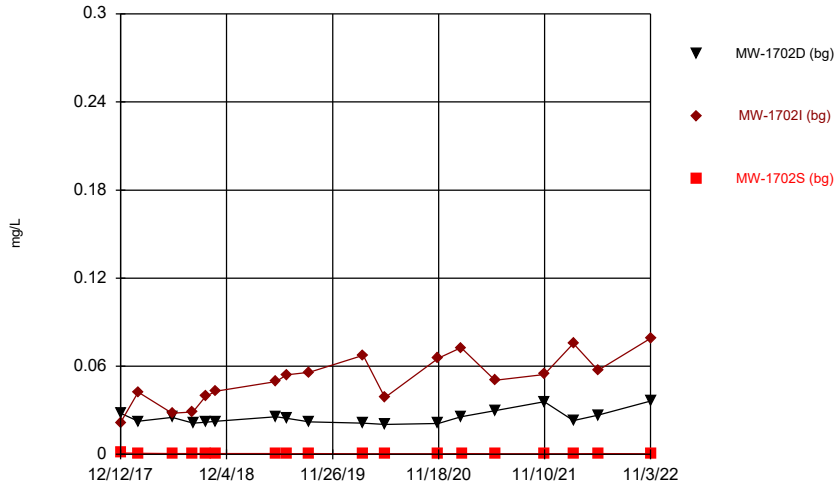
Time Series



Constituent: Arsenic, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

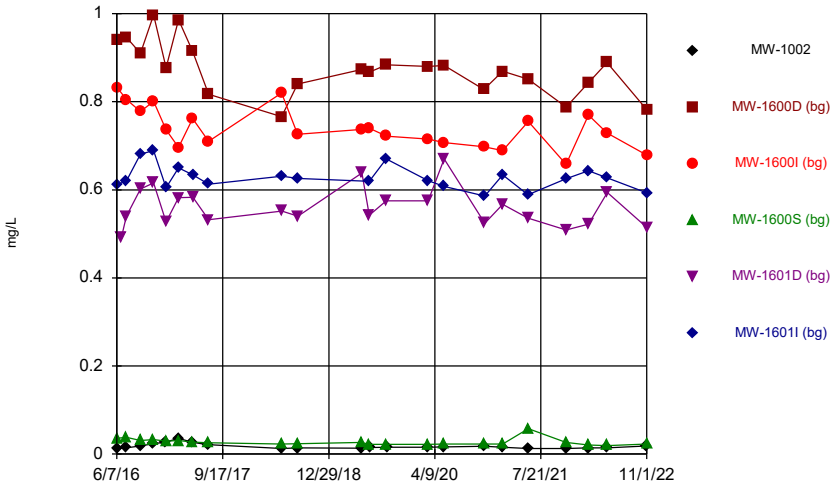
Time Series



Constituent: Arsenic, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

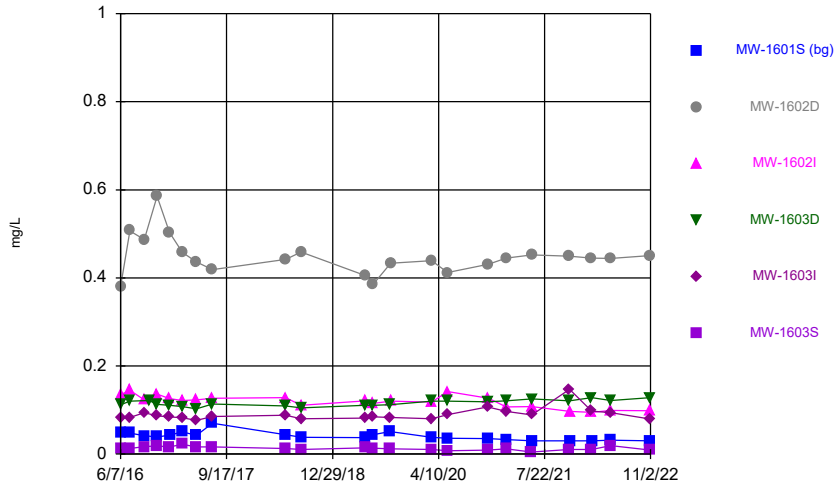
Time Series



Constituent: Barium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

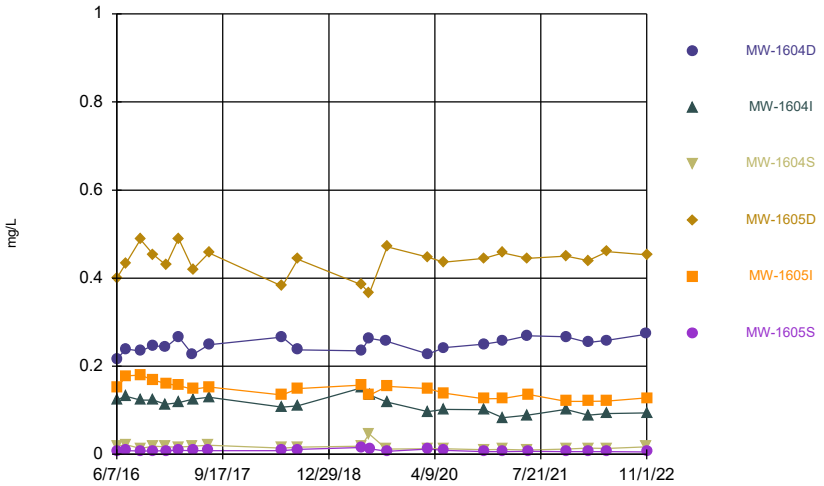
Time Series



Constituent: Barium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

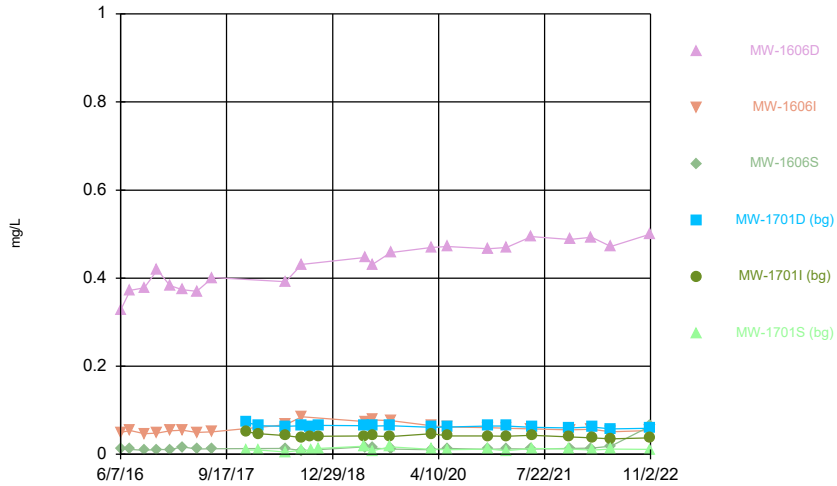
Time Series



Constituent: Barium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

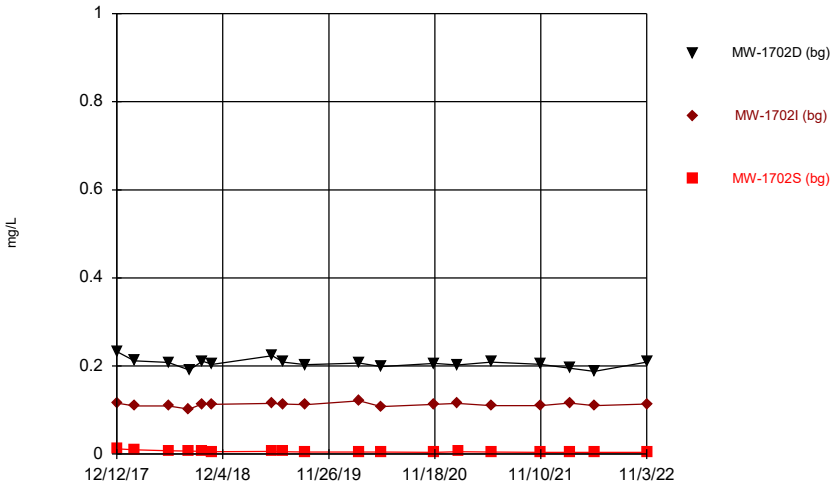
Time Series



Constituent: Barium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

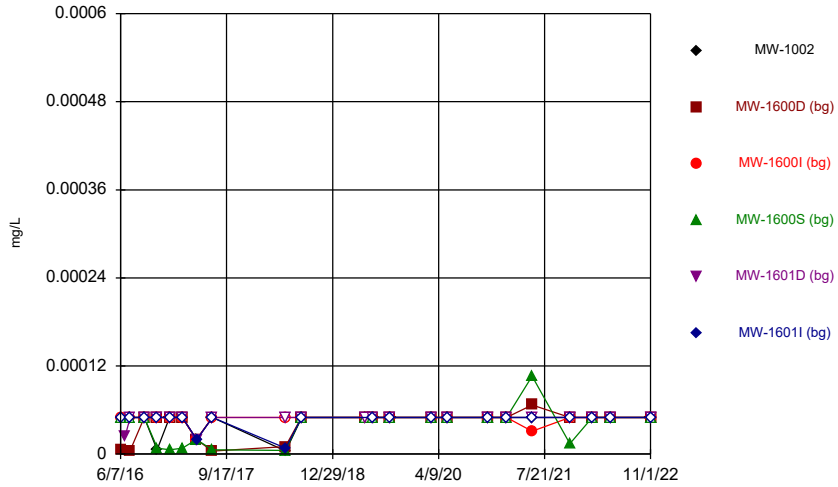
Time Series



Constituent: Barium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

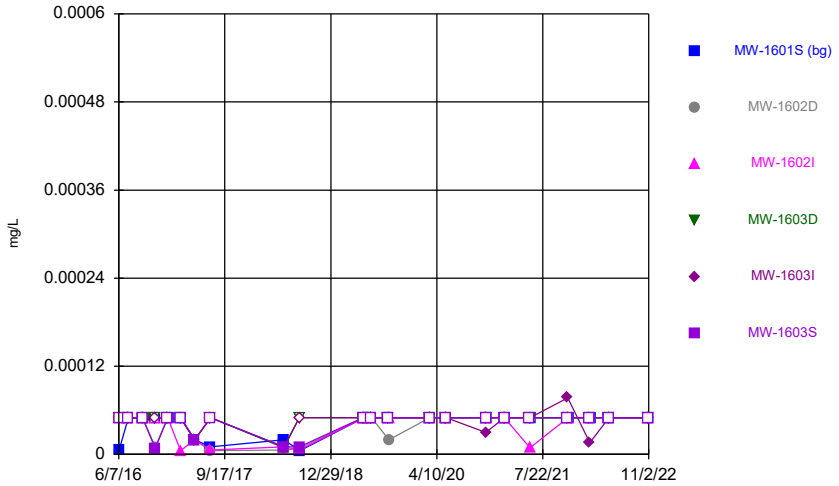
Time Series



Constituent: Beryllium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

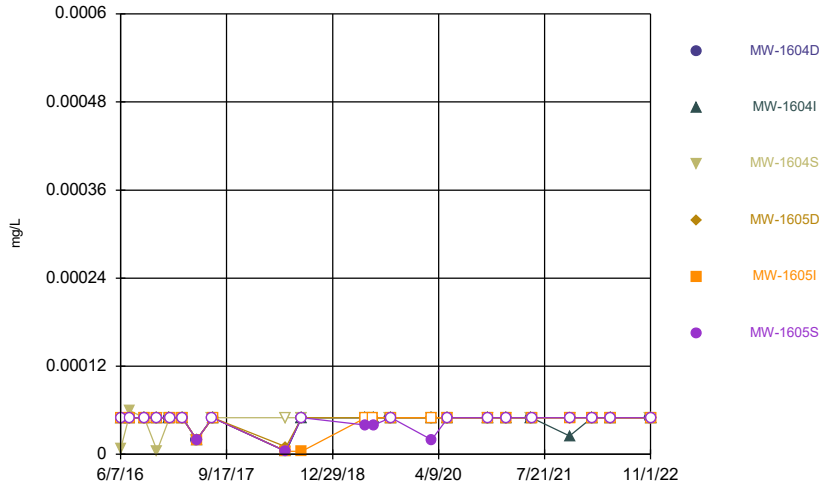
Time Series



Constituent: Beryllium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

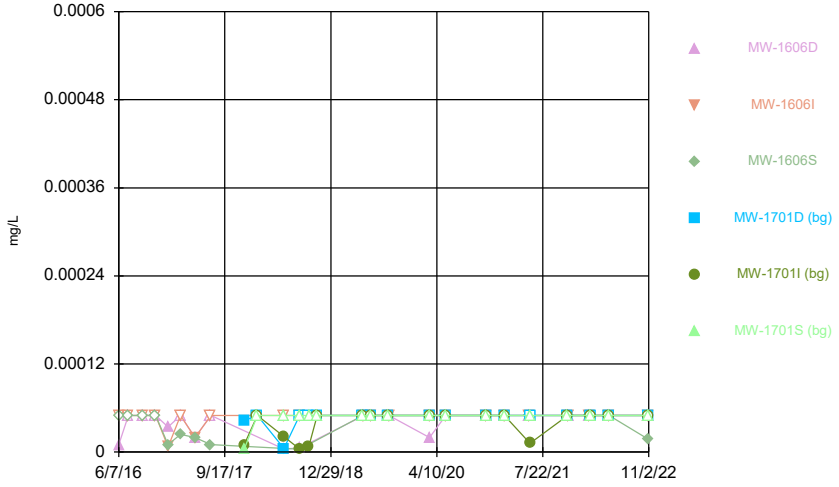
Time Series



Constituent: Beryllium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

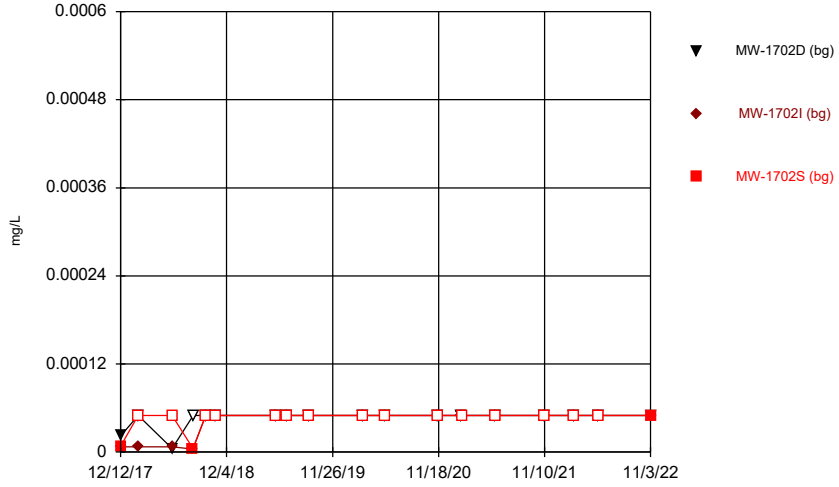
Time Series



Constituent: Beryllium, total Analysis Run 1/2/2023 3:02 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

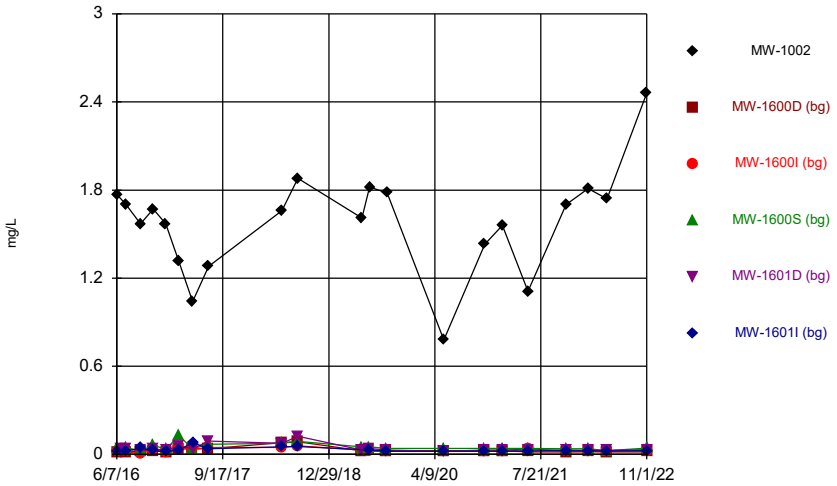
Time Series



Constituent: Beryllium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

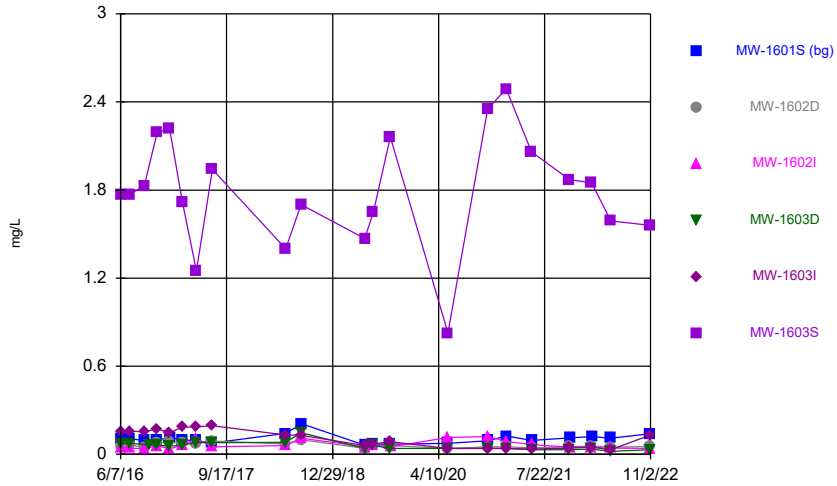
Time Series



Constituent: Boron, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

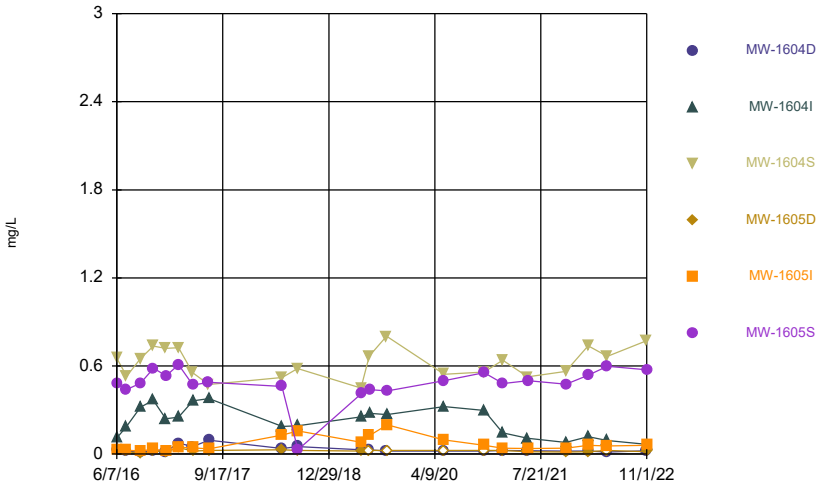
Time Series



Constituent: Boron, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

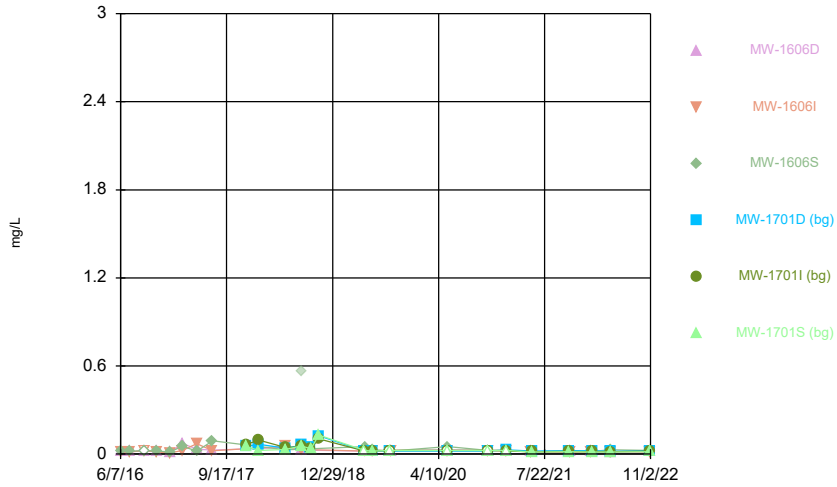
Time Series



Constituent: Boron, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

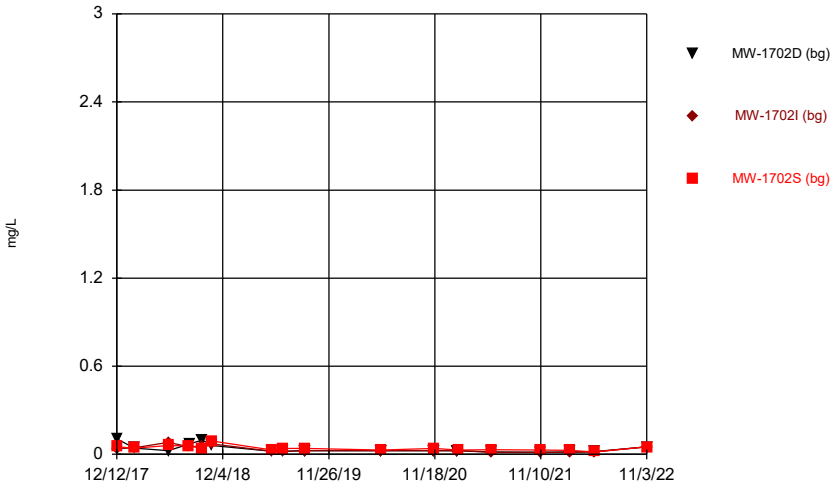
Time Series



Constituent: Boron, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

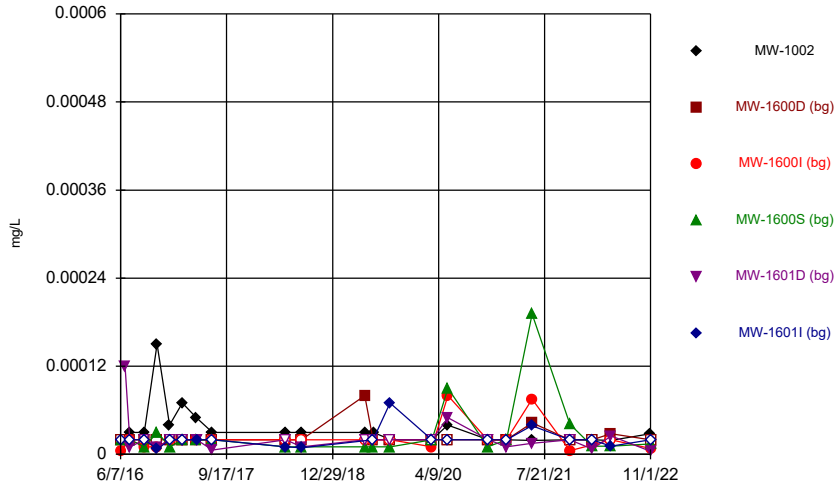
Time Series



Constituent: Boron, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

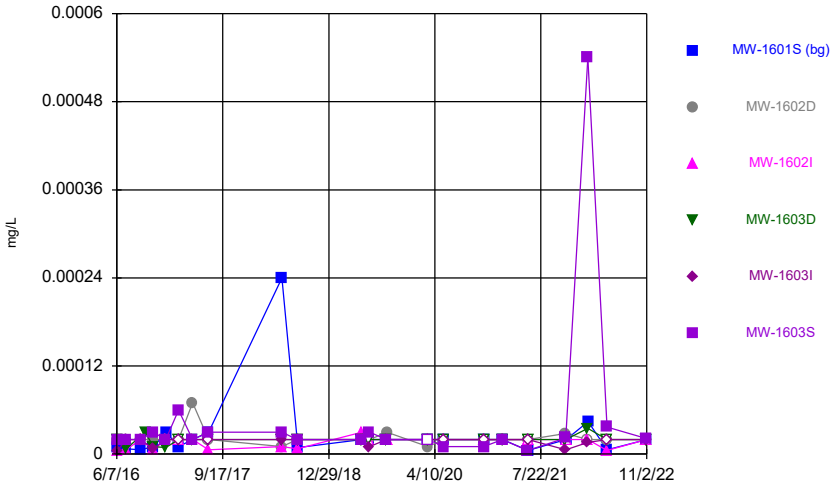
Time Series



Constituent: Cadmium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

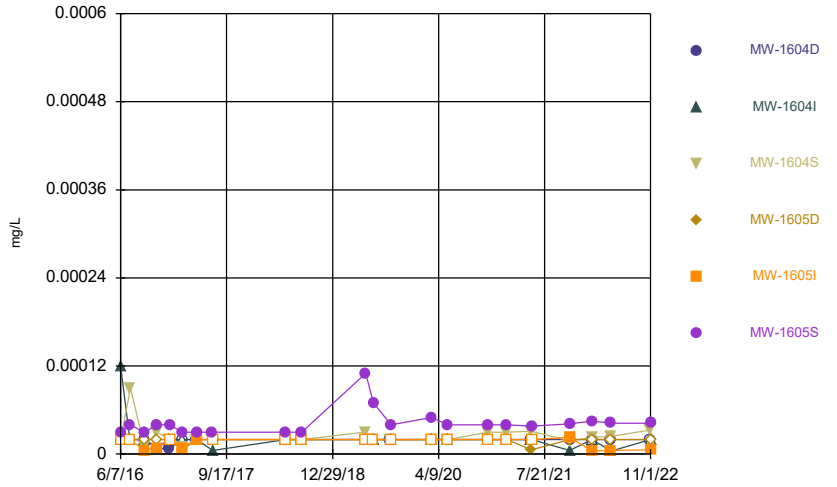
Time Series



Constituent: Cadmium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

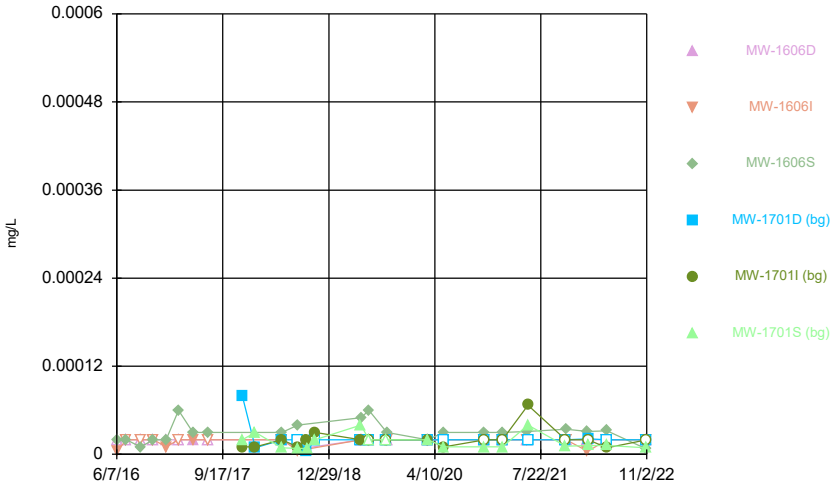
Time Series



Constituent: Cadmium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

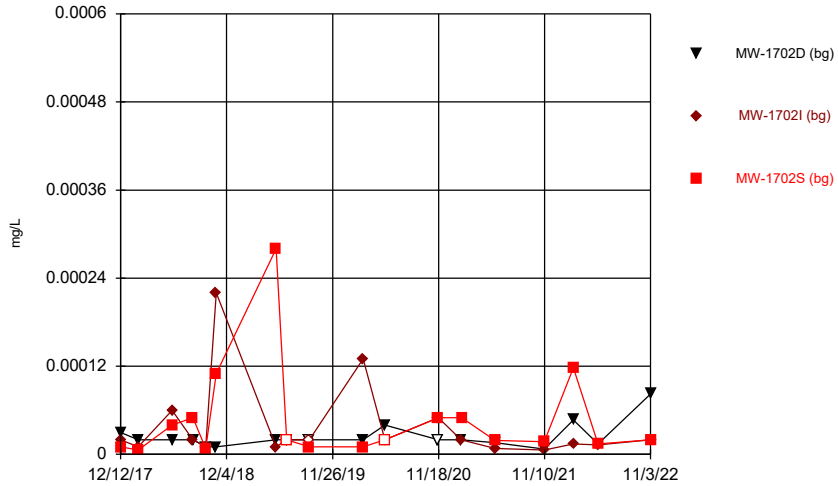
Time Series



Constituent: Cadmium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

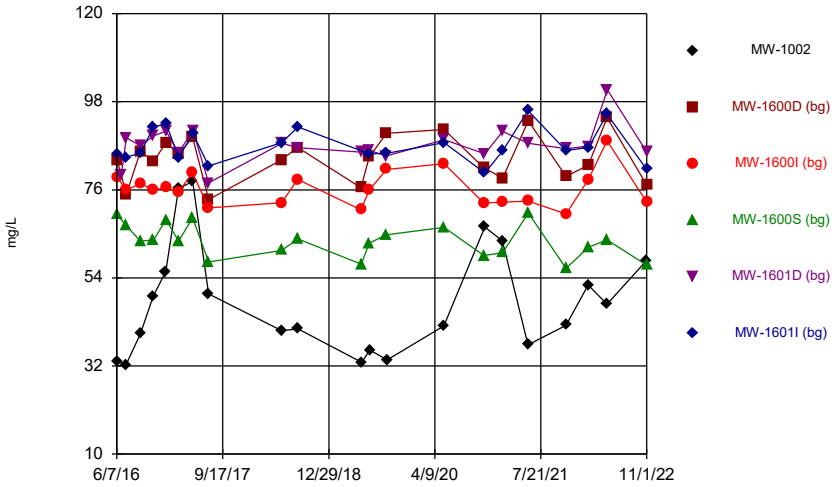
Time Series



Constituent: Cadmium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

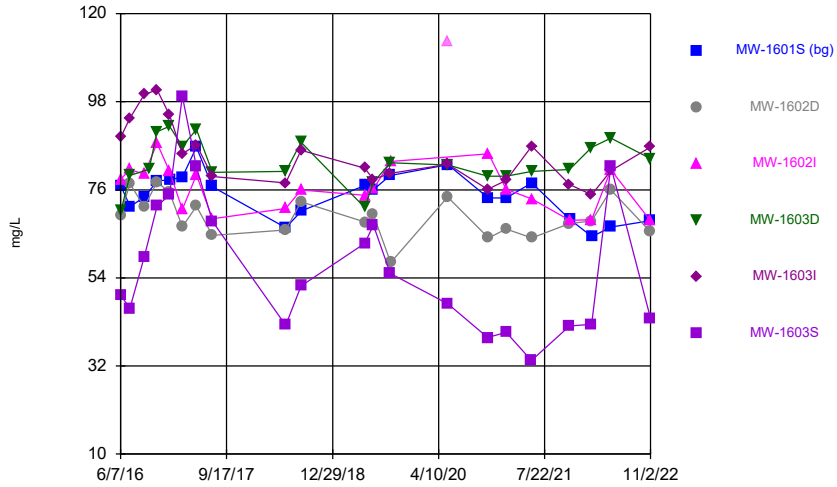
Time Series



Constituent: Calcium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

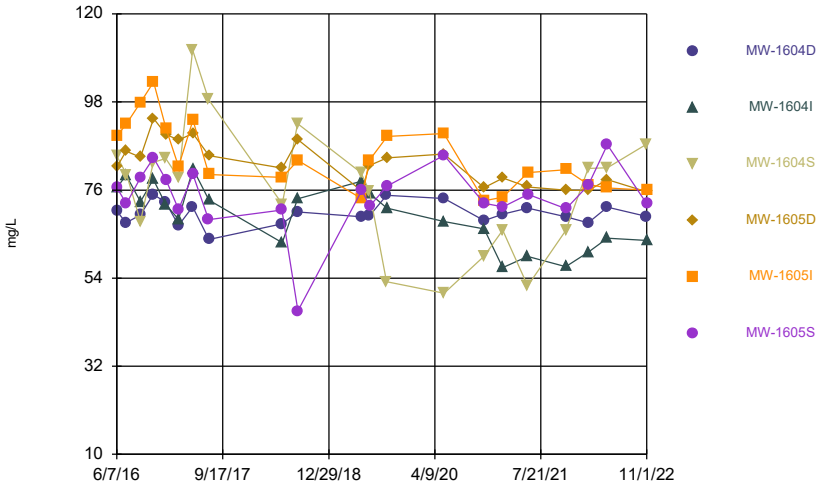
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Calcium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

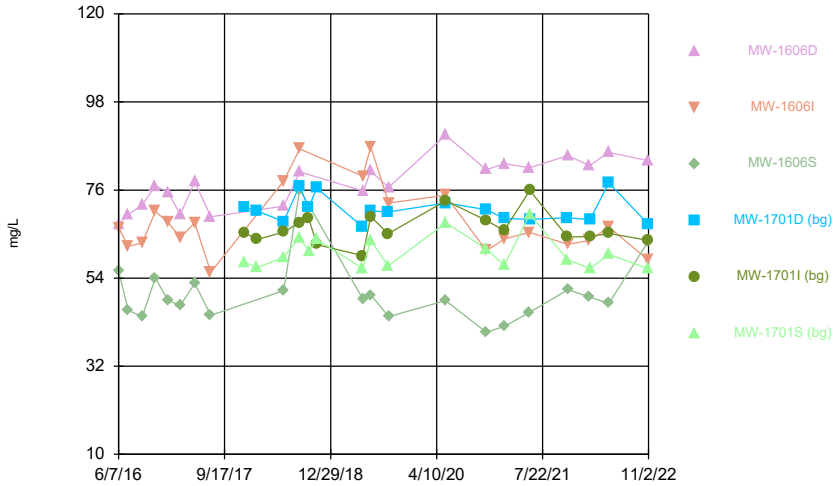
Time Series



Constituent: Calcium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

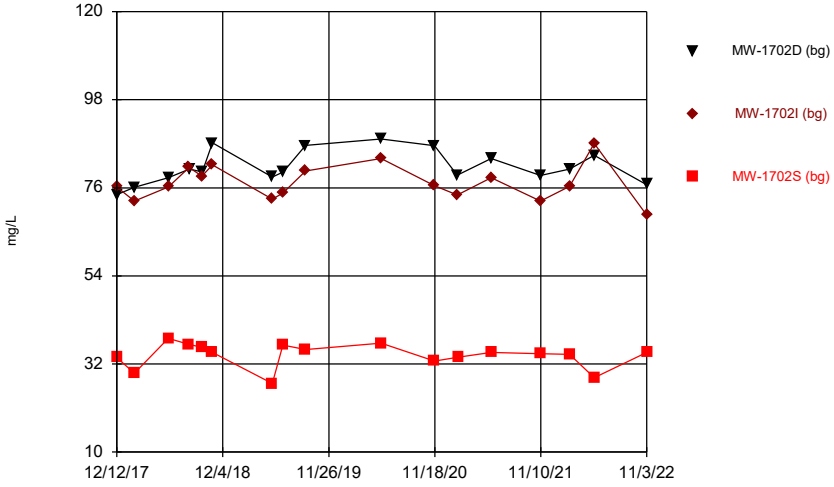
Time Series



Constituent: Calcium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

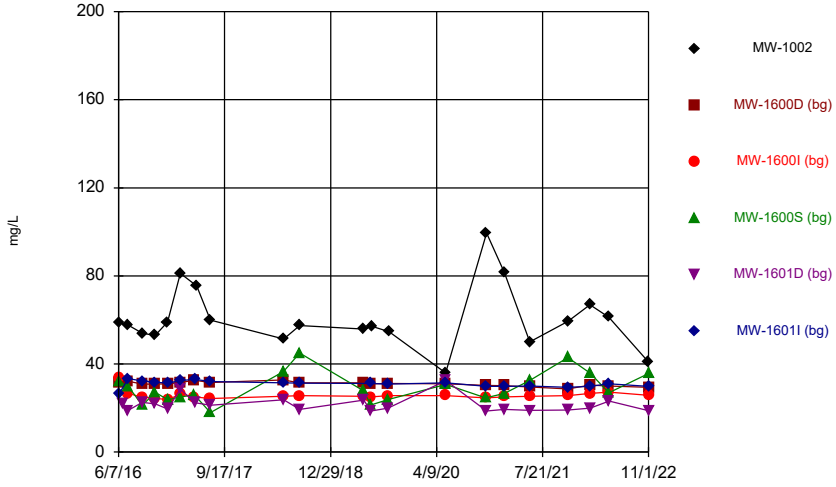
Time Series



Constituent: Calcium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

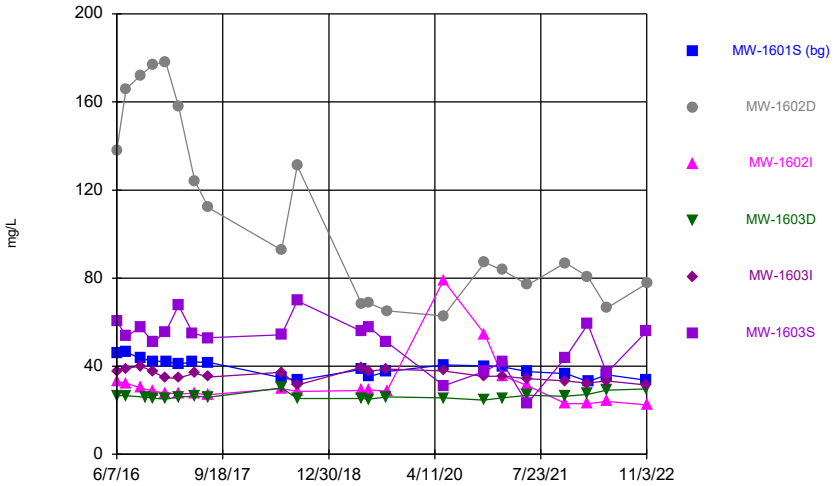
Time Series



Constituent: Chloride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

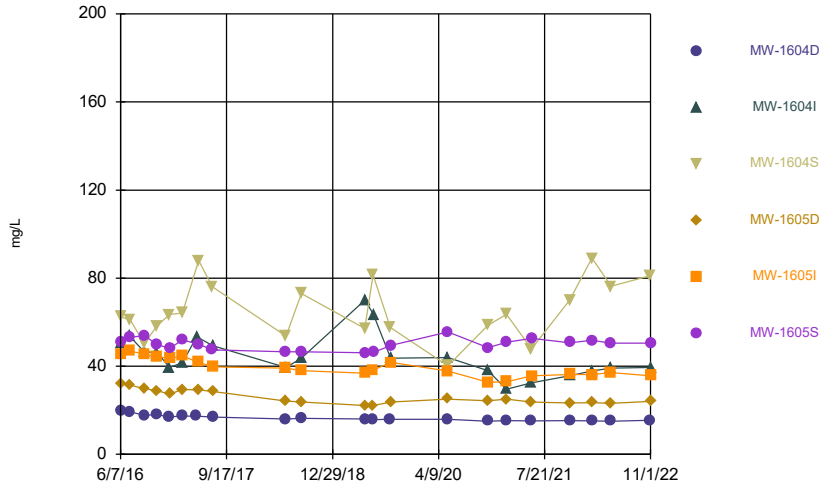
Time Series



Constituent: Chloride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

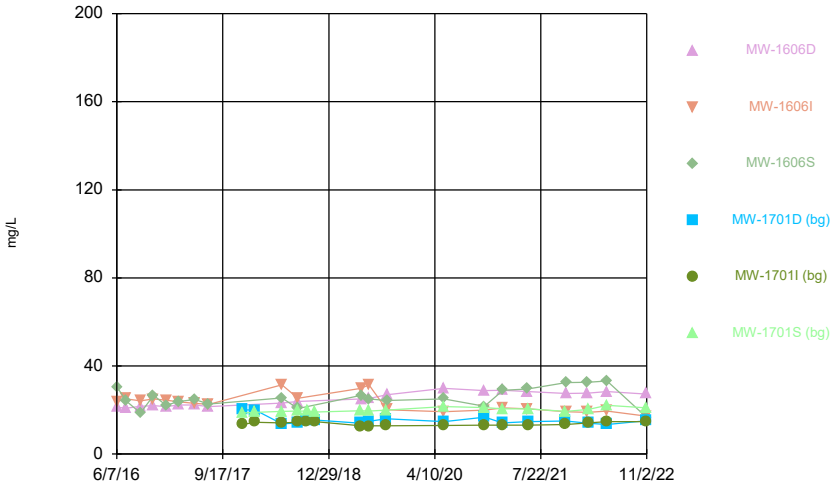
Time Series



Constituent: Chloride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

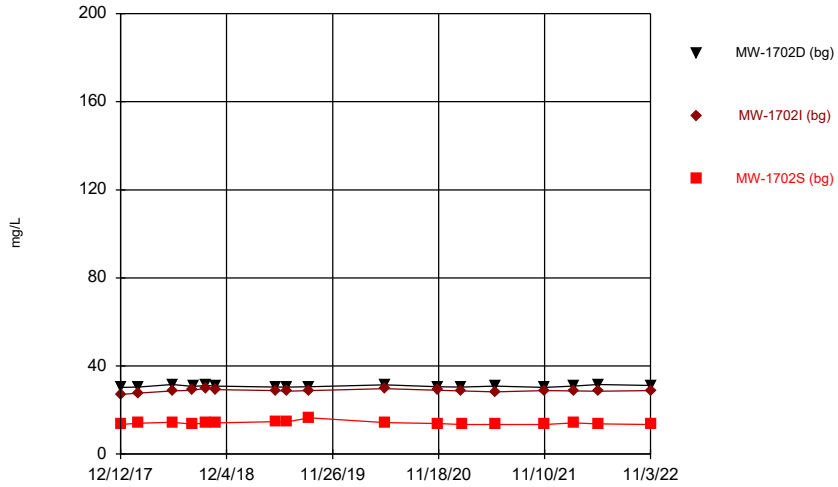
Time Series



Constituent: Chloride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

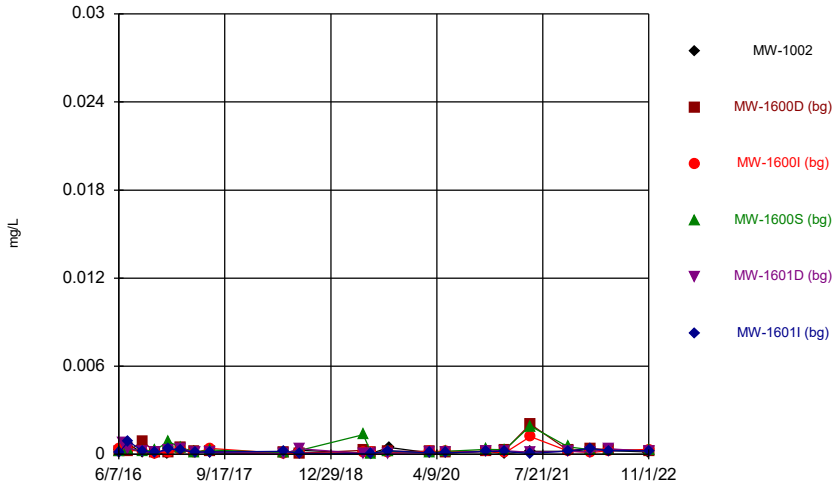
Time Series



Constituent: Chloride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

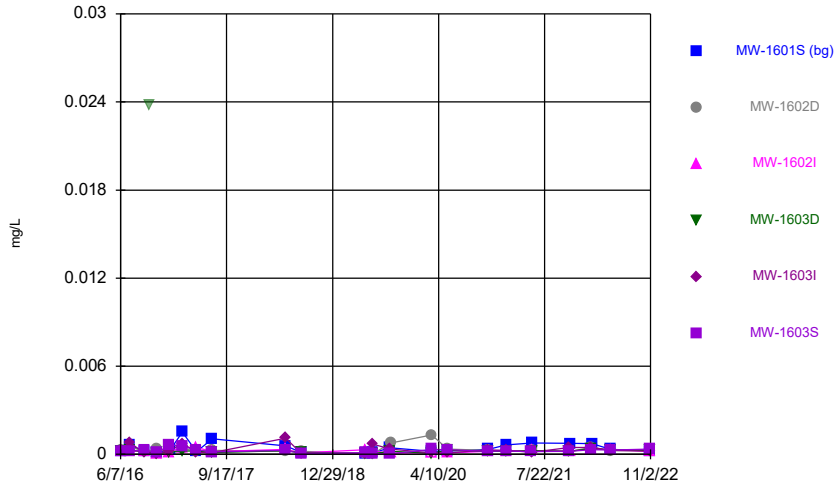
Time Series



Constituent: Chromium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

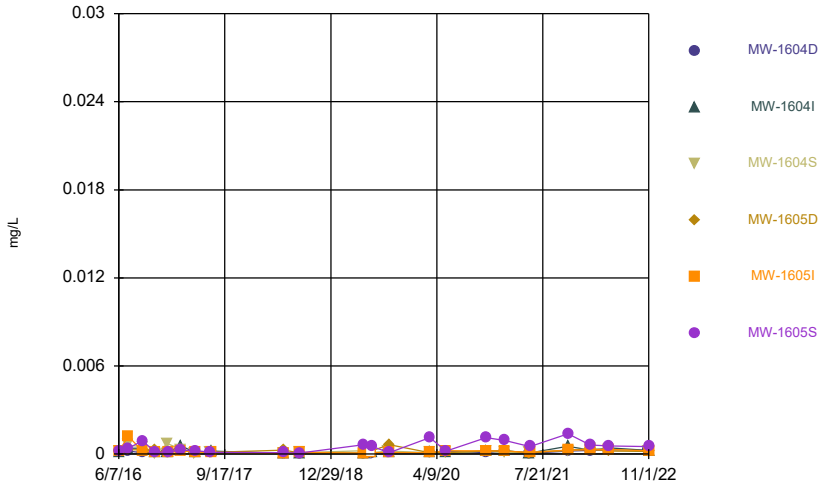
Time Series



Constituent: Chromium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

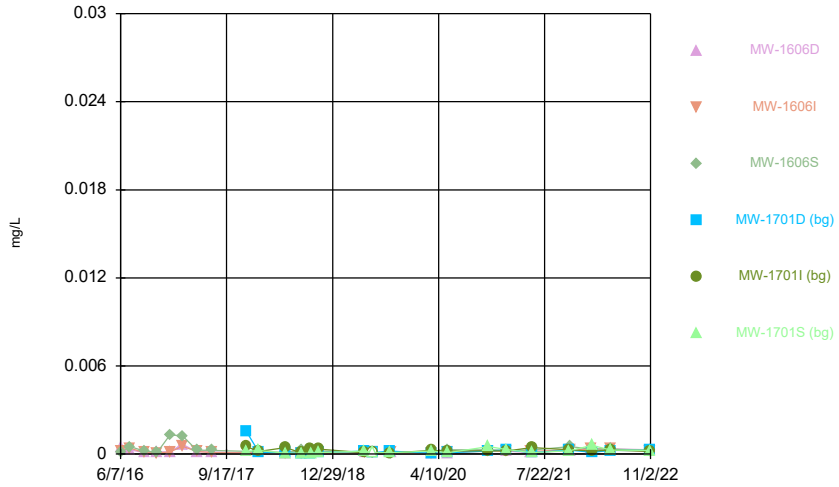
Time Series



Constituent: Chromium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

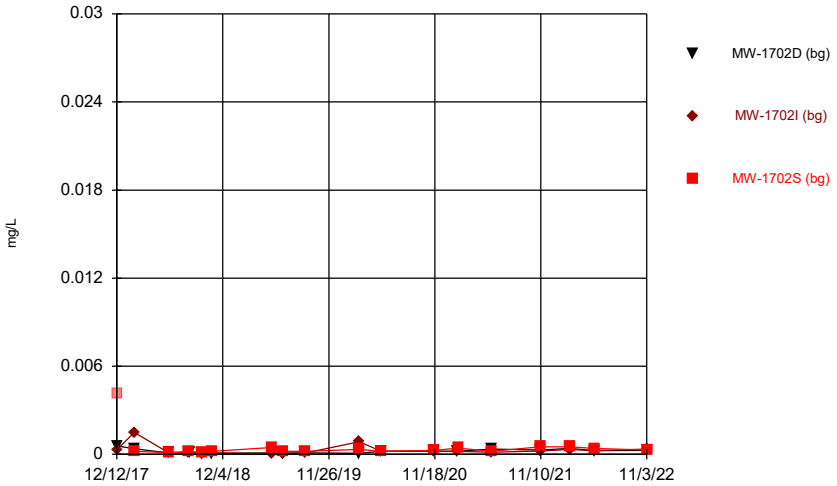
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

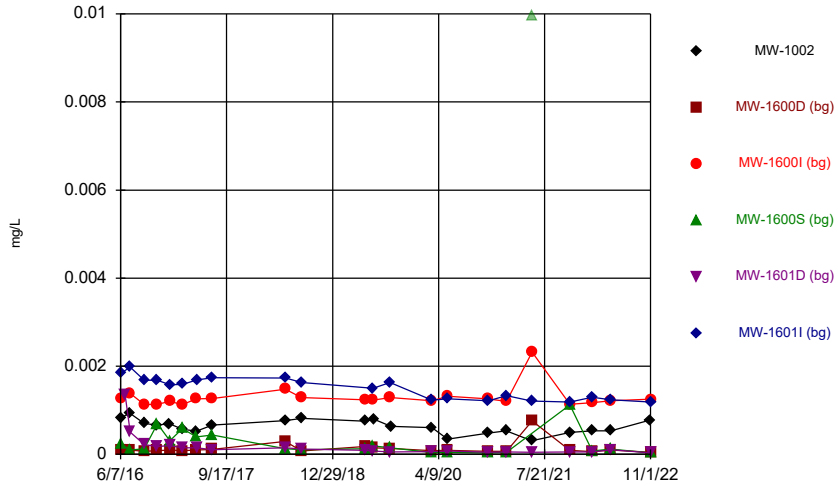
Time Series



Constituent: Chromium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

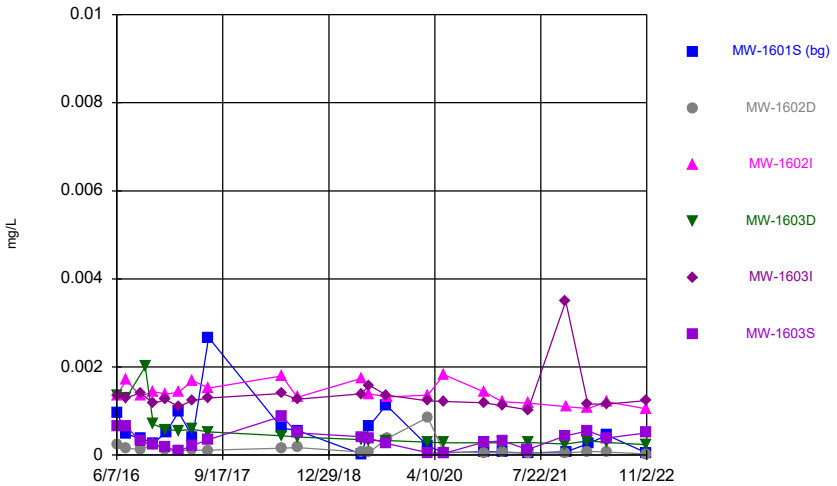
Time Series



Constituent: Cobalt, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

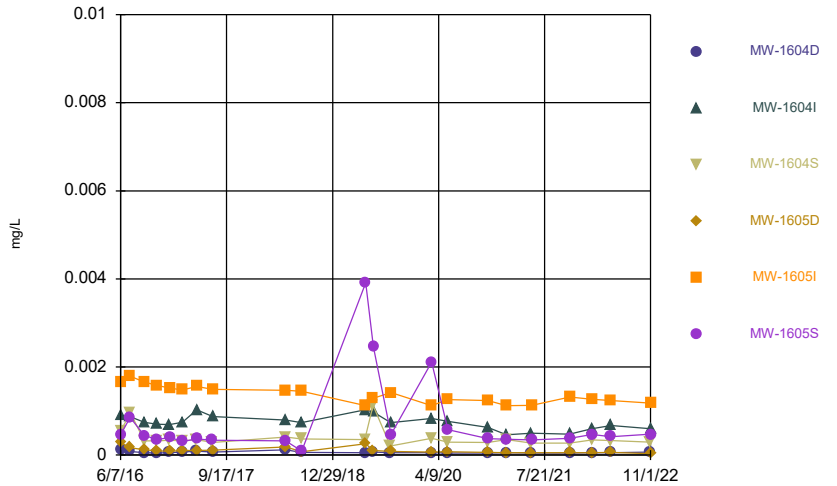
Time Series



Constituent: Cobalt, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

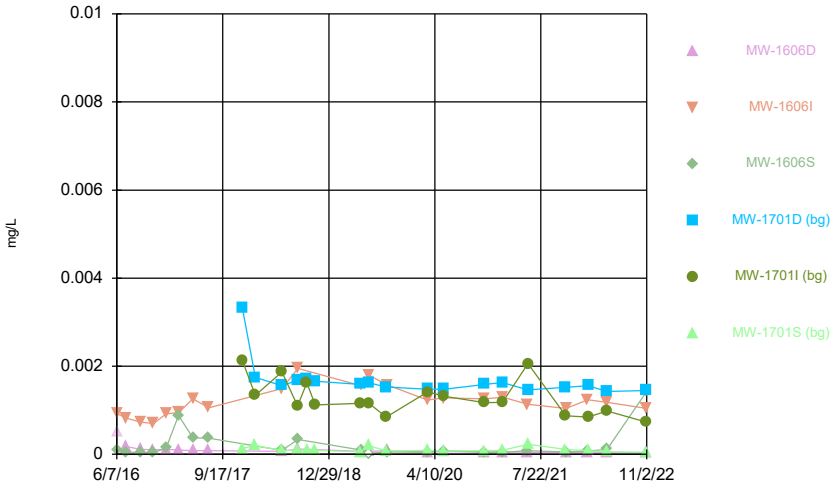
Time Series



Constituent: Cobalt, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

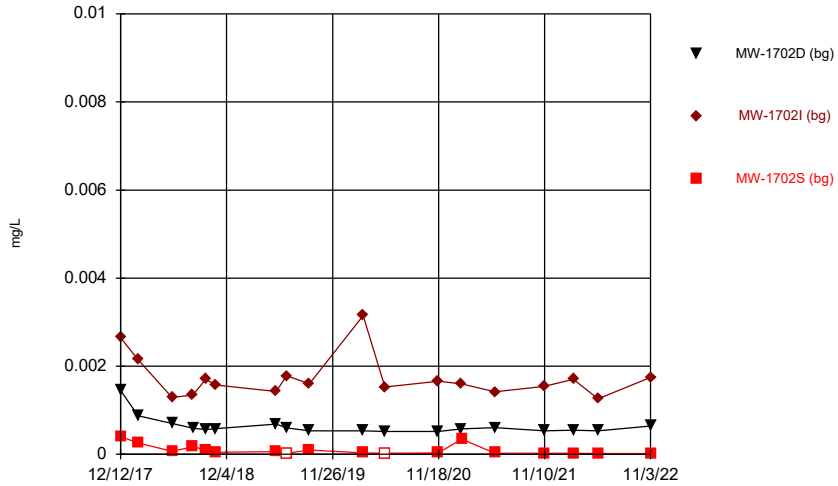
Time Series



Constituent: Cobalt, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

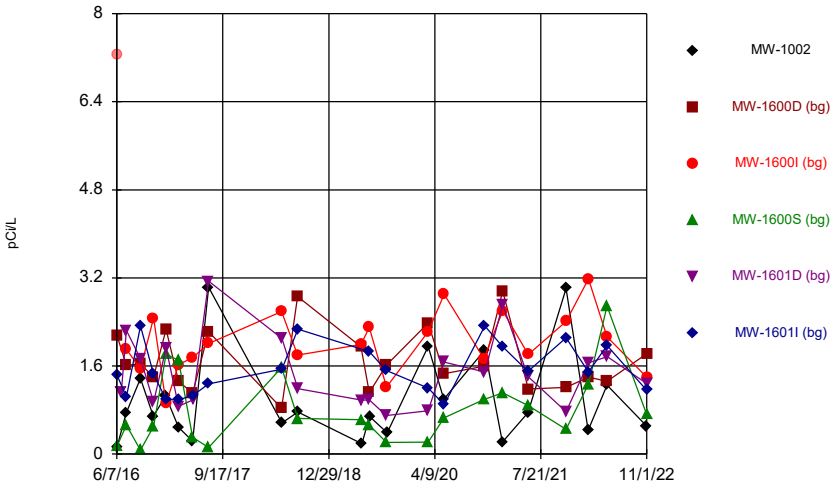
Time Series



Constituent: Cobalt, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

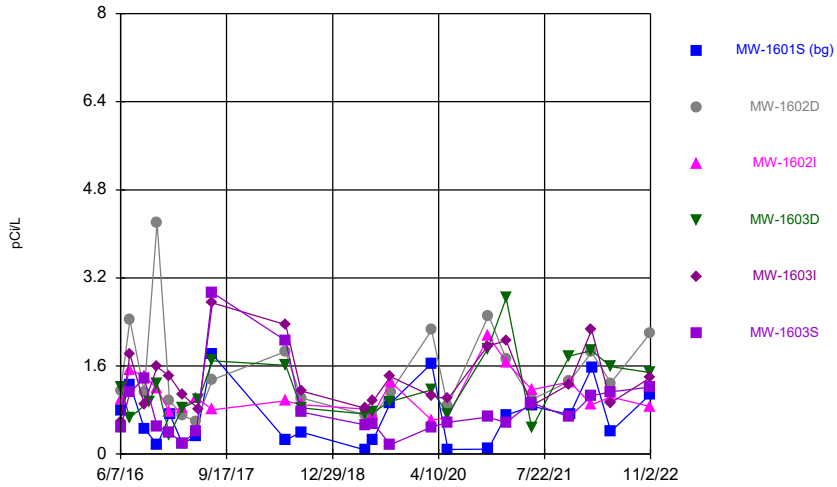
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

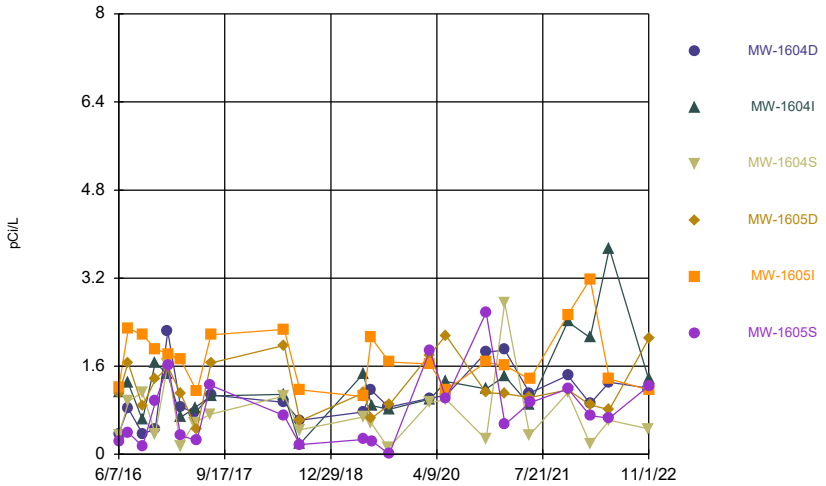
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

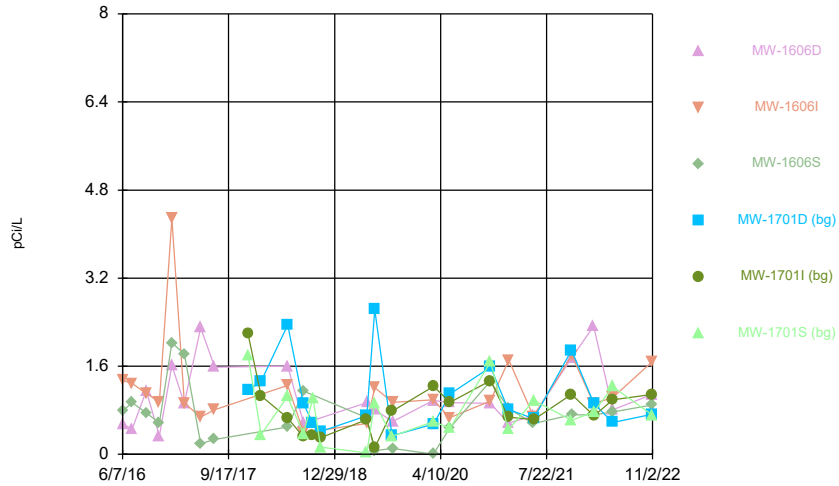
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

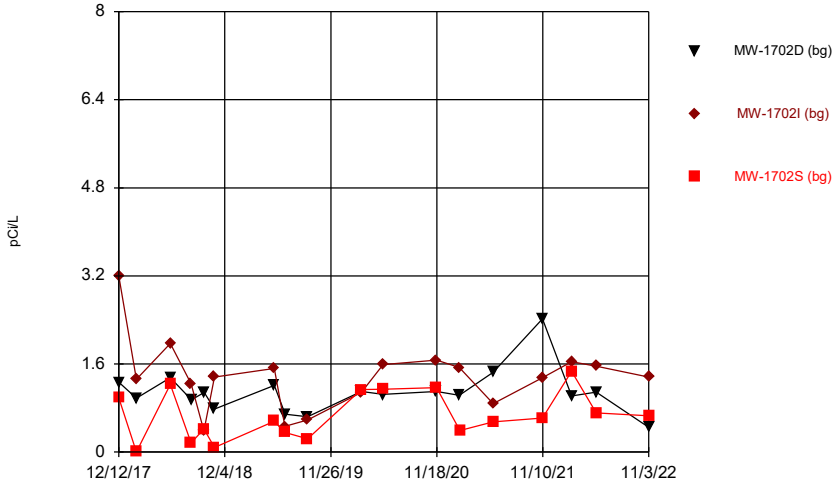
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

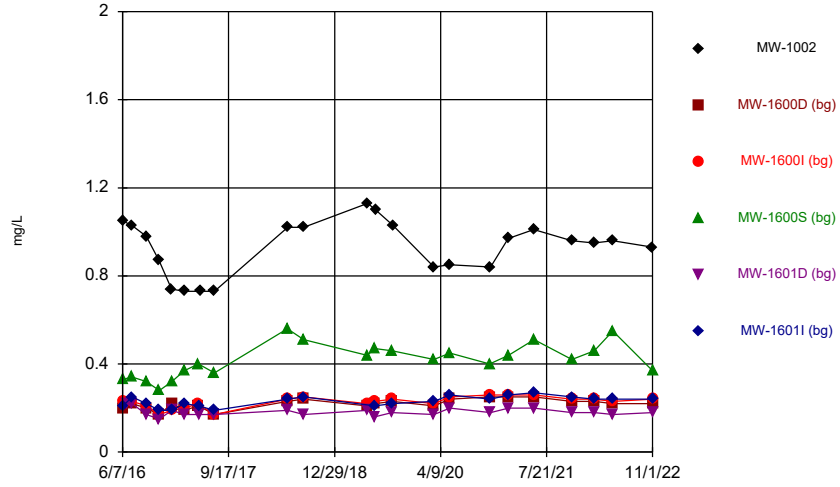
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

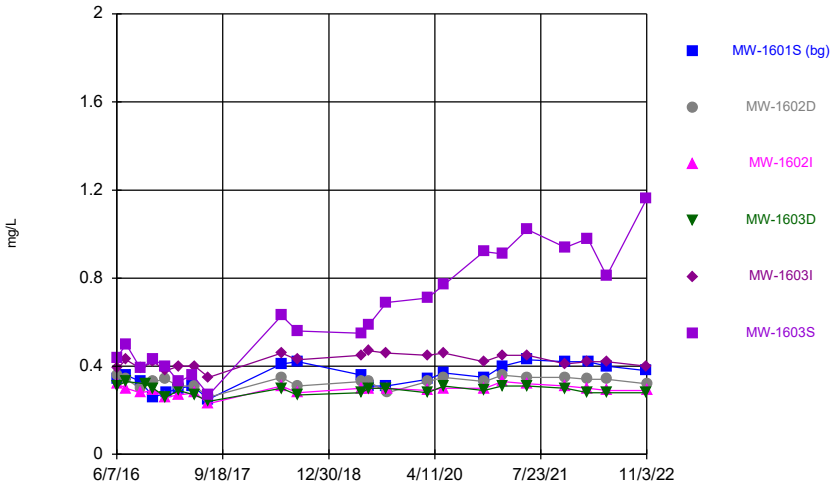
Time Series



Constituent: Fluoride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

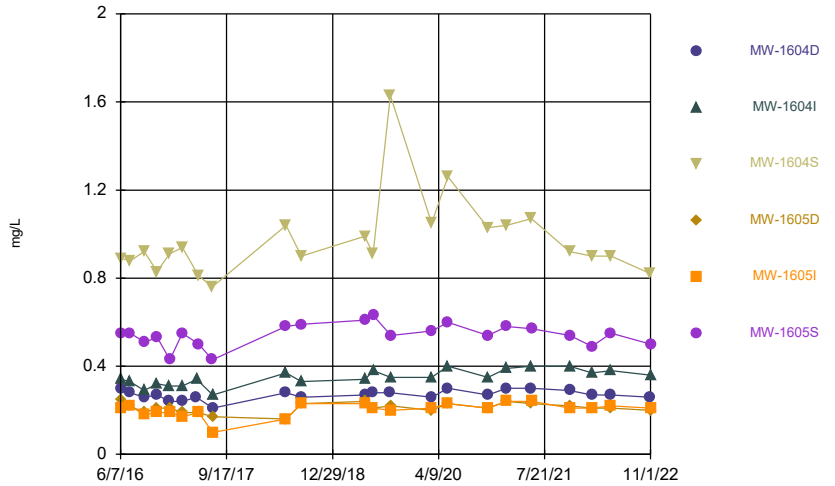
Time Series



Constituent: Fluoride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

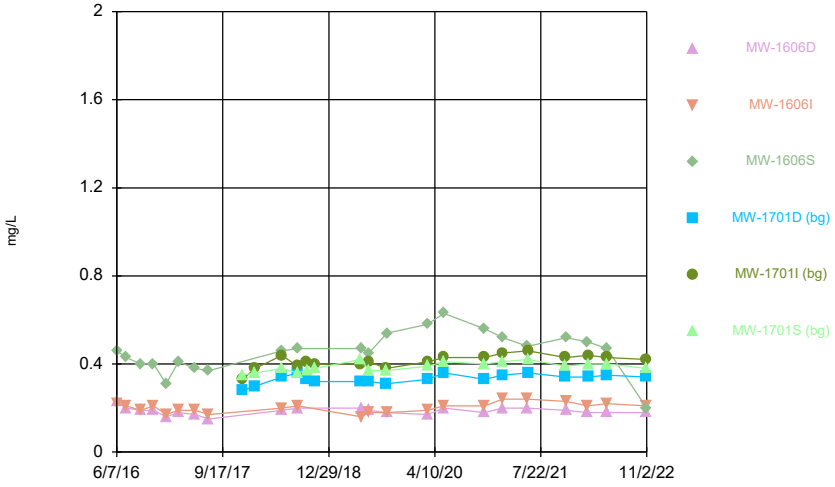
Time Series



Constituent: Fluoride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

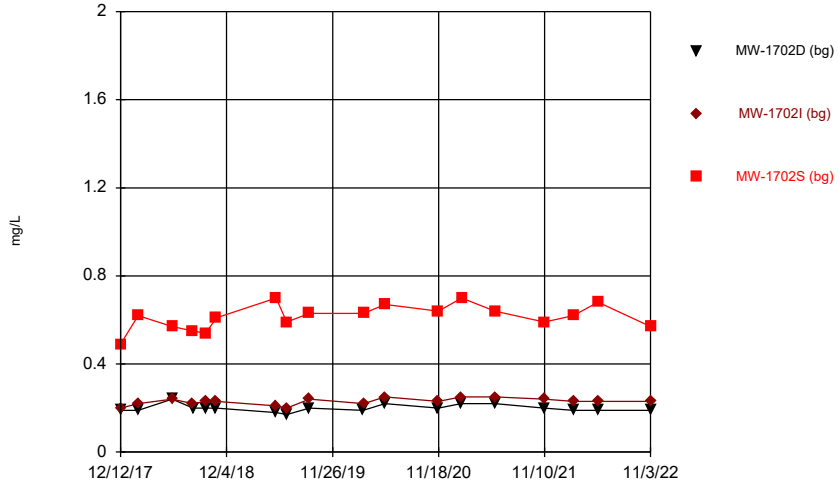
Time Series



Constituent: Fluoride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

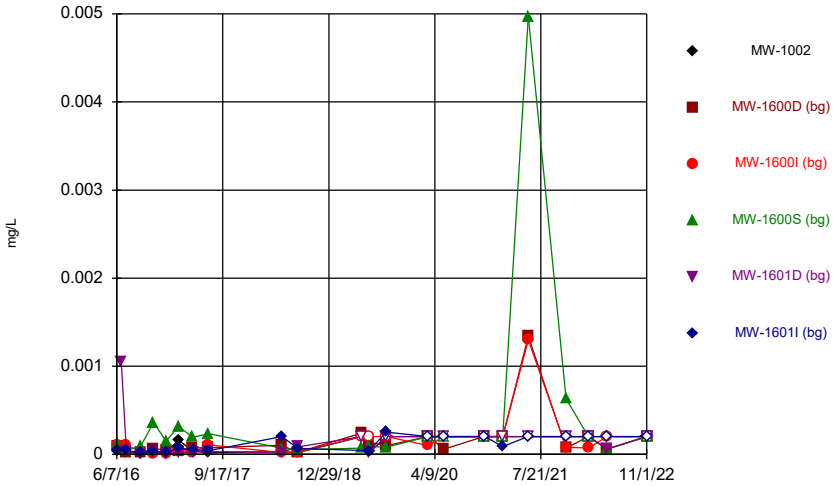
Time Series



Constituent: Fluoride, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

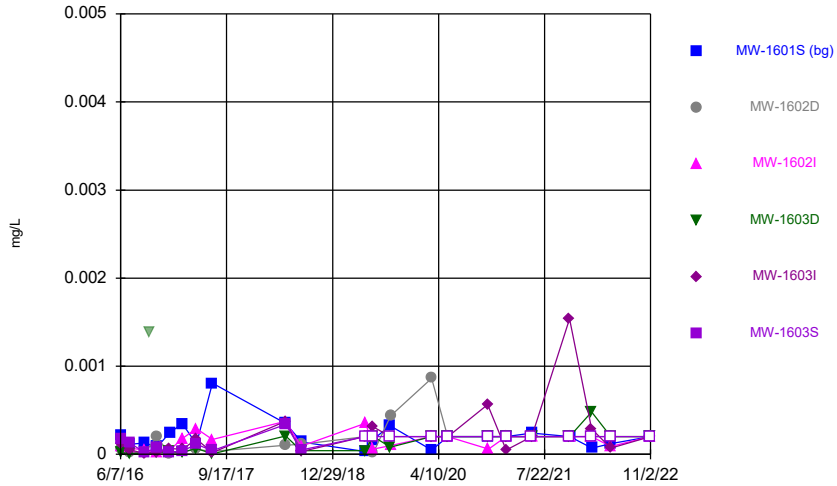
Time Series



Constituent: Lead, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

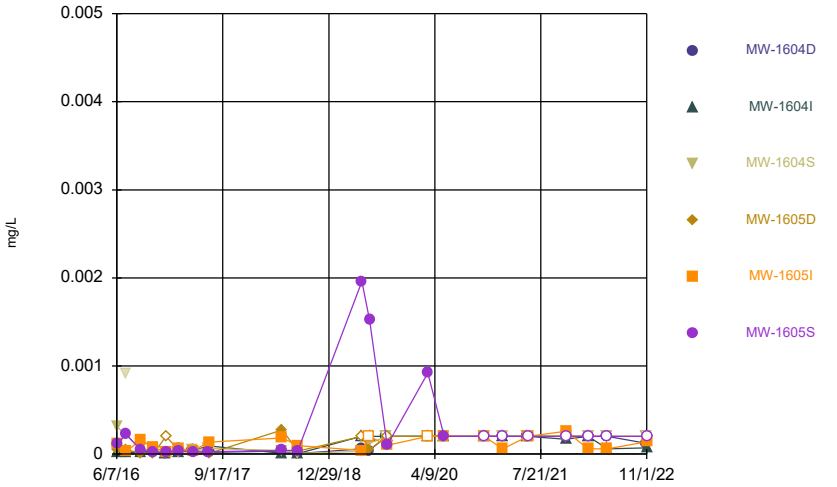
Time Series



Constituent: Lead, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

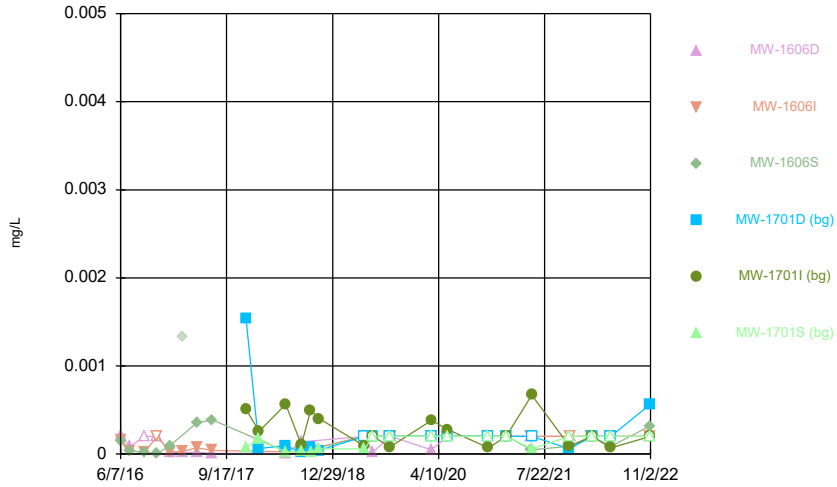
Time Series



Constituent: Lead, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

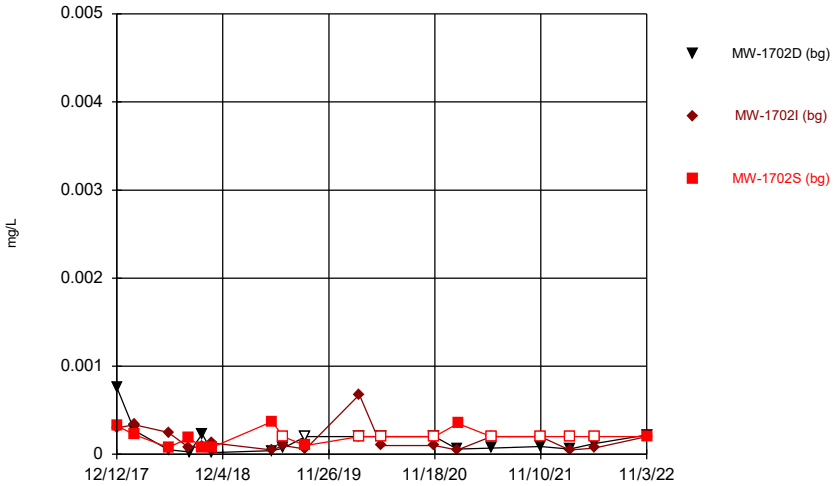
Time Series



Constituent: Lead, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

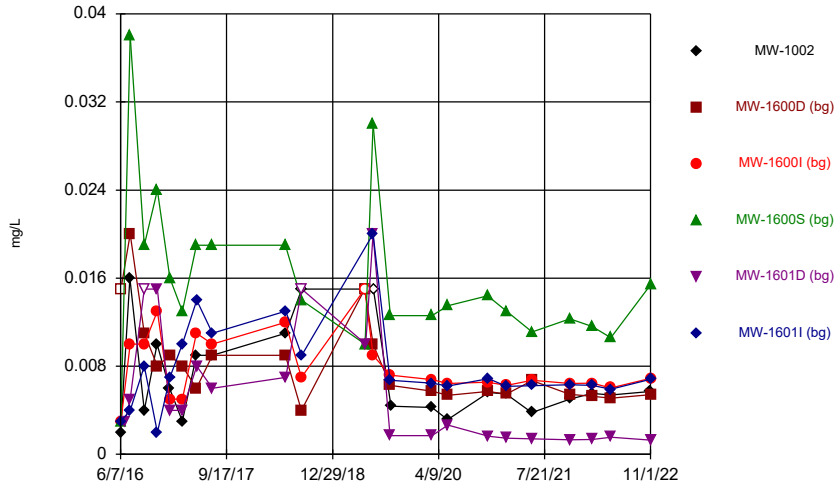
Time Series



Constituent: Lead, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

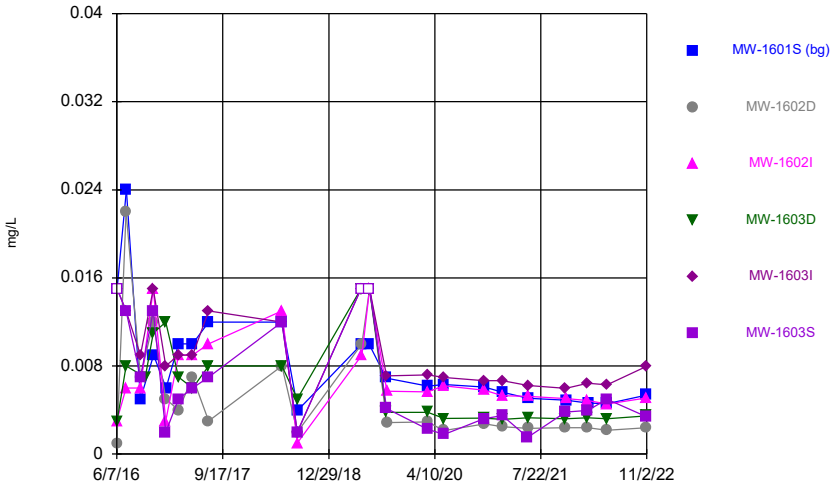
Time Series



Constituent: Lithium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

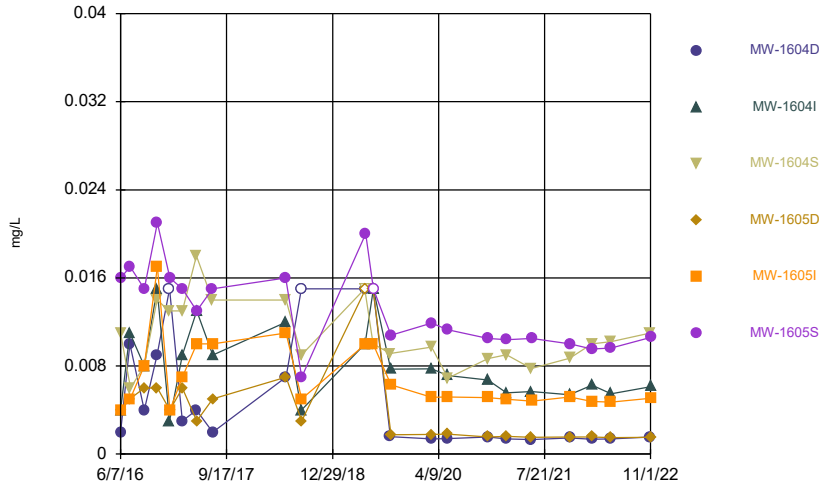
Time Series



Constituent: Lithium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

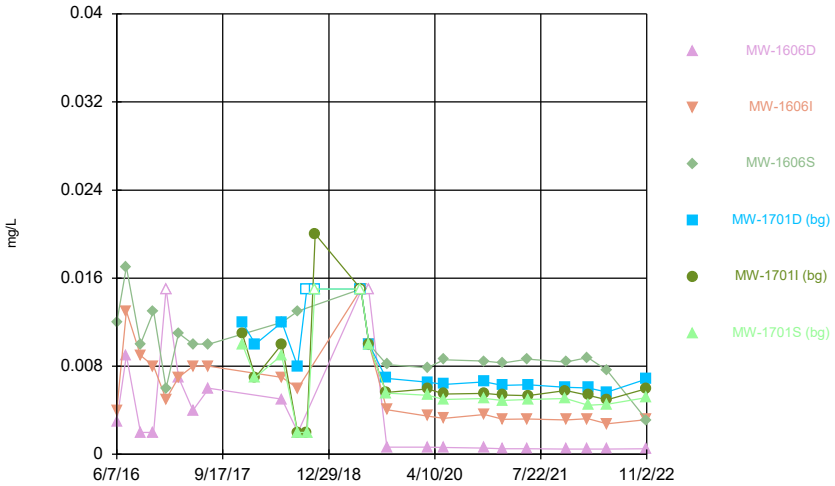
Time Series



Constituent: Lithium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

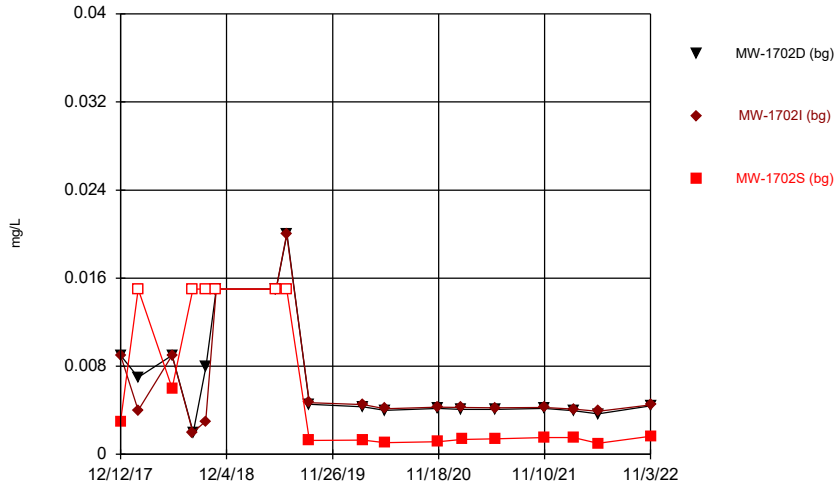
Time Series



Constituent: Lithium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

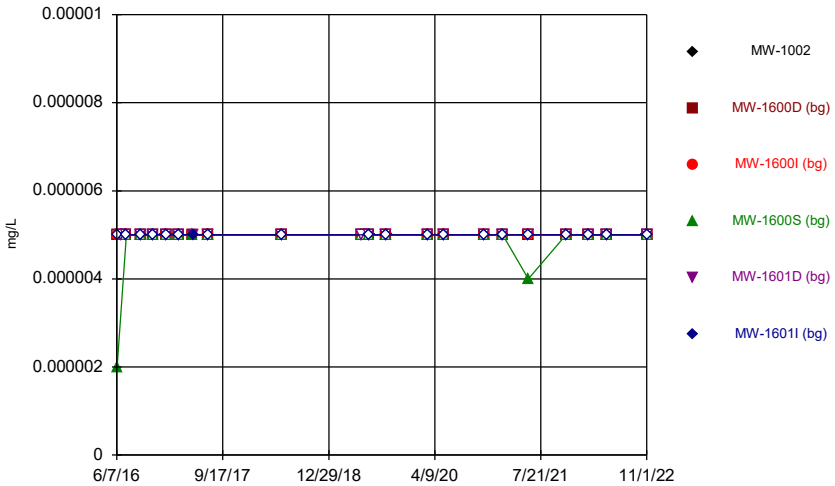
Time Series



Constituent: Lithium, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

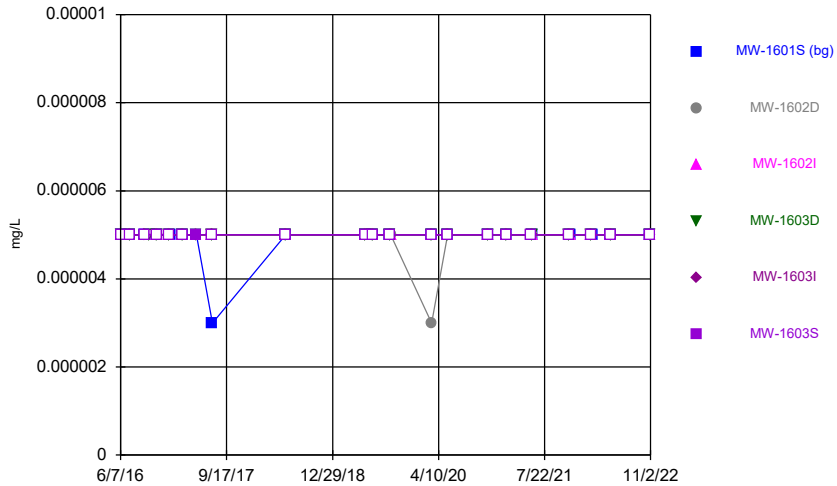
Time Series



Constituent: Mercury, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

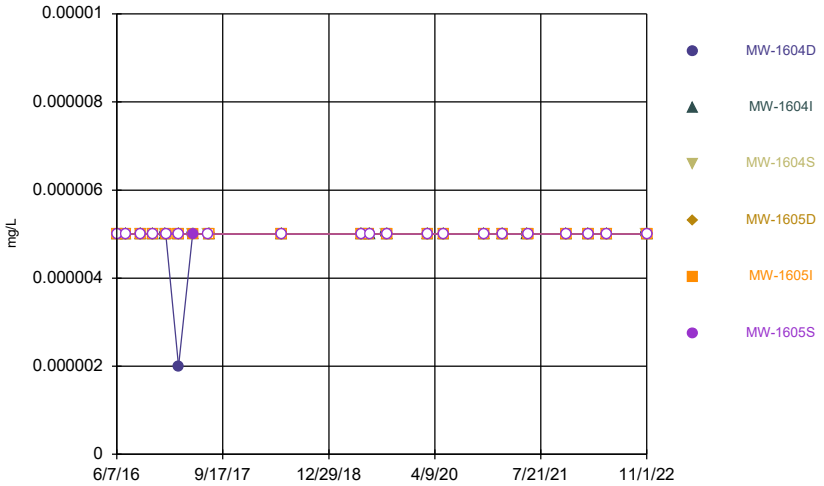
Time Series



Constituent: Mercury, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

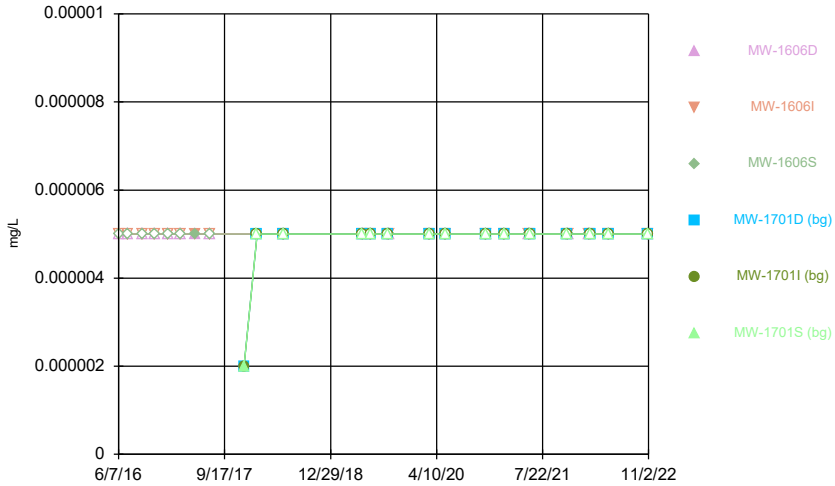
Time Series



Constituent: Mercury, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

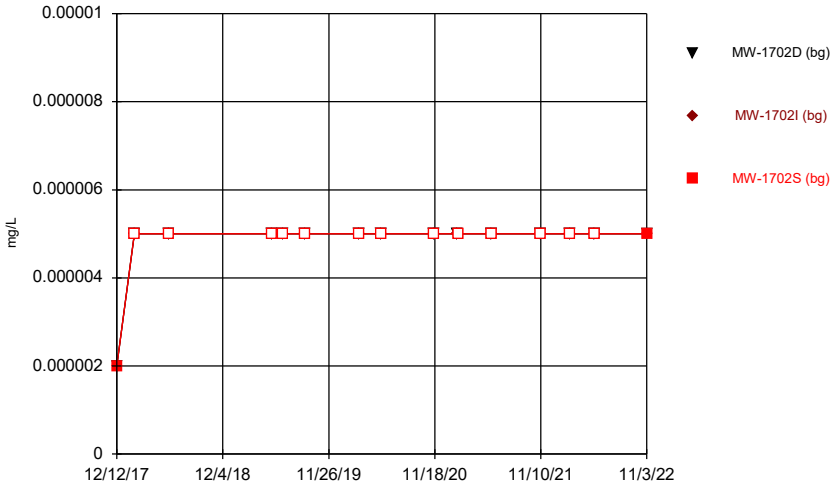
Time Series



Constituent: Mercury, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

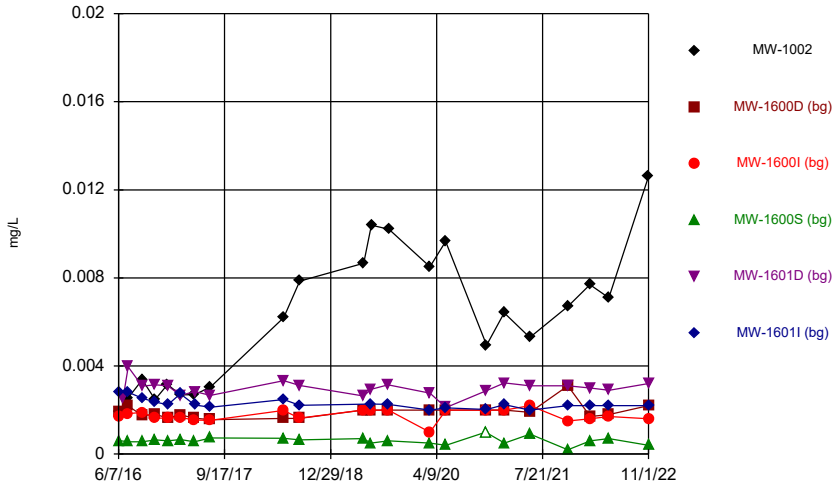
Time Series



Constituent: Mercury, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

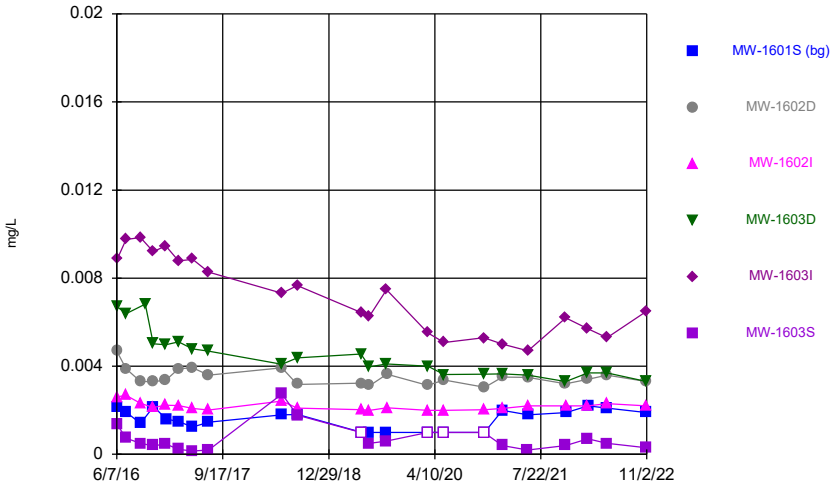
Time Series



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

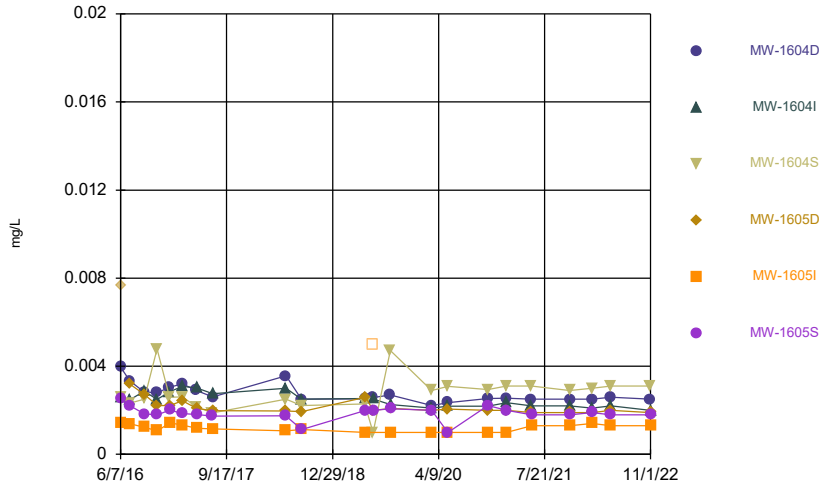
Time Series



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

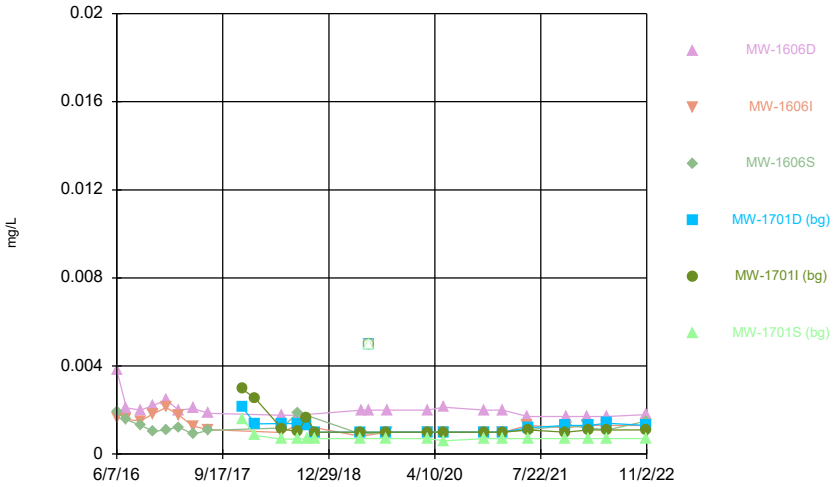
Time Series



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

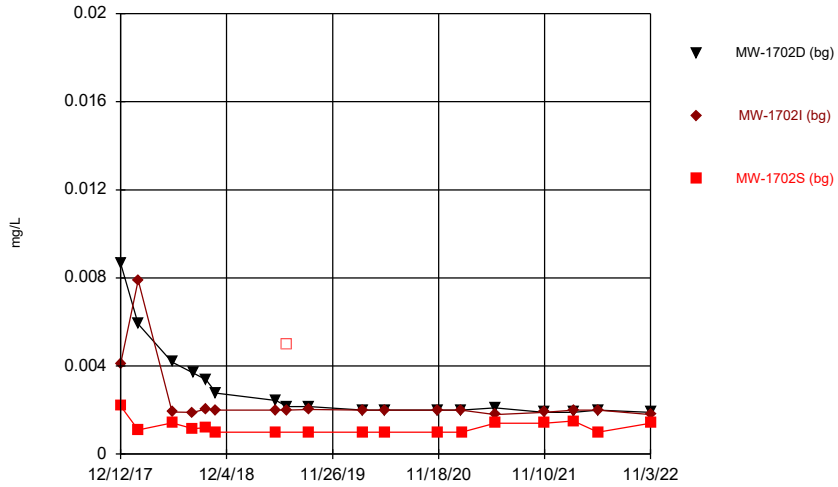
Time Series



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

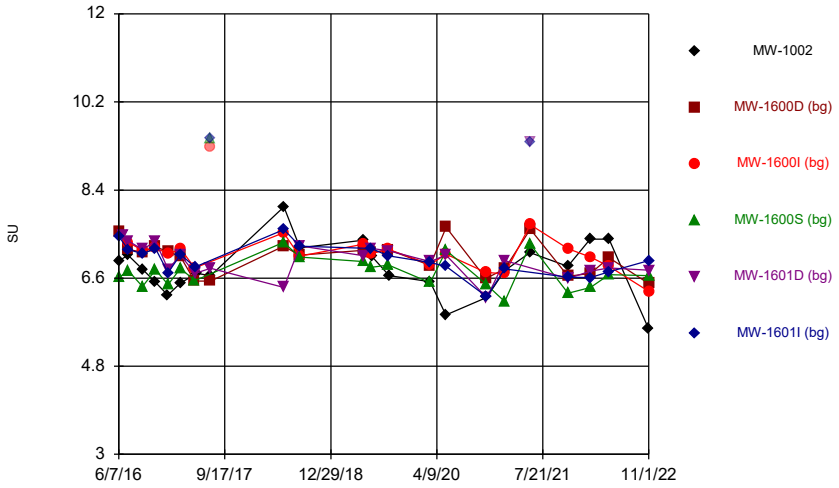
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:03 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

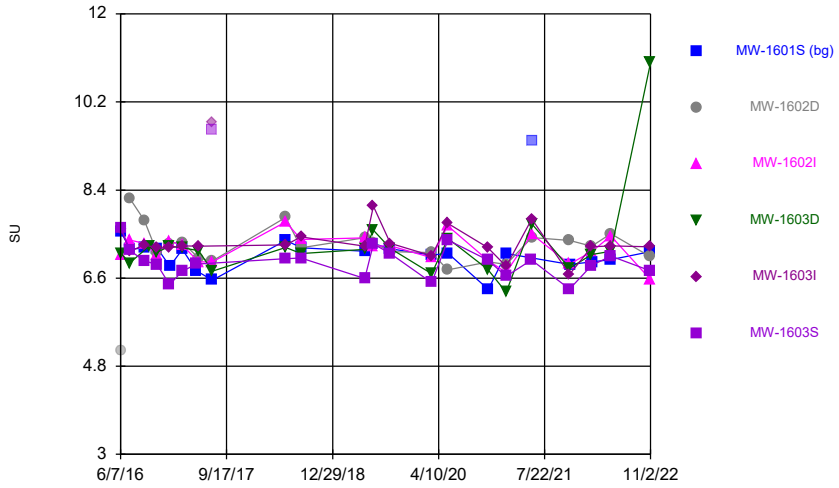
Time Series



Constituent: pH, field Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

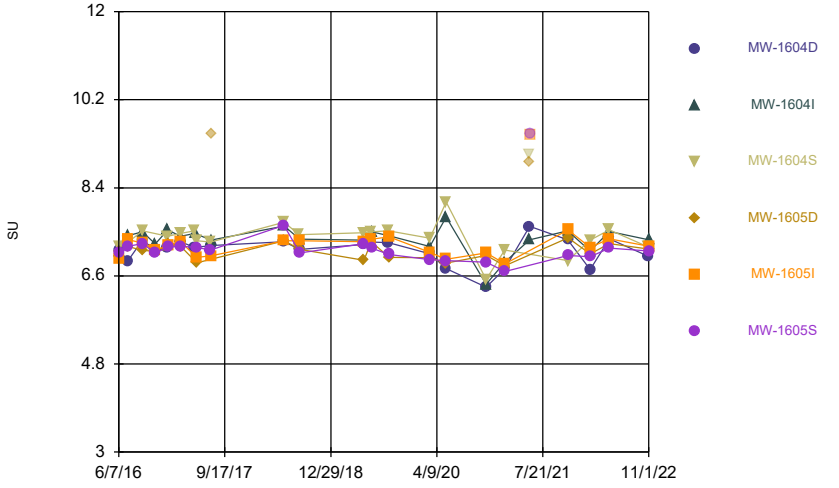
Time Series



Constituent: pH, field Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

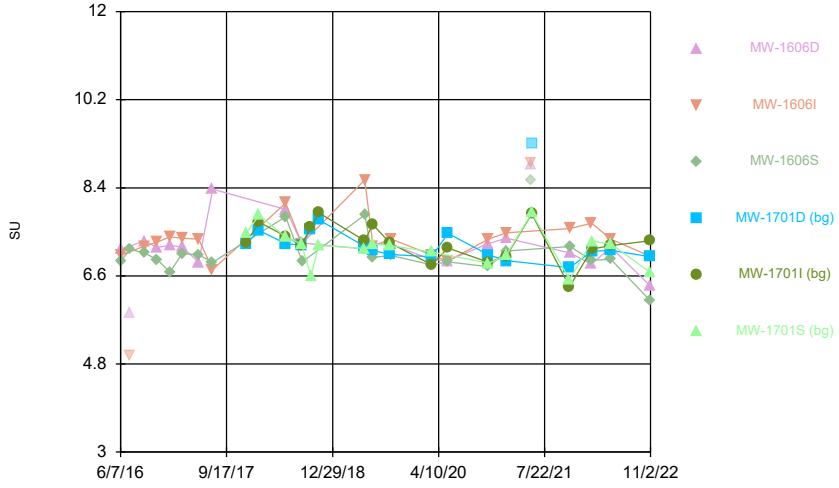
Time Series



Constituent: pH, field Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

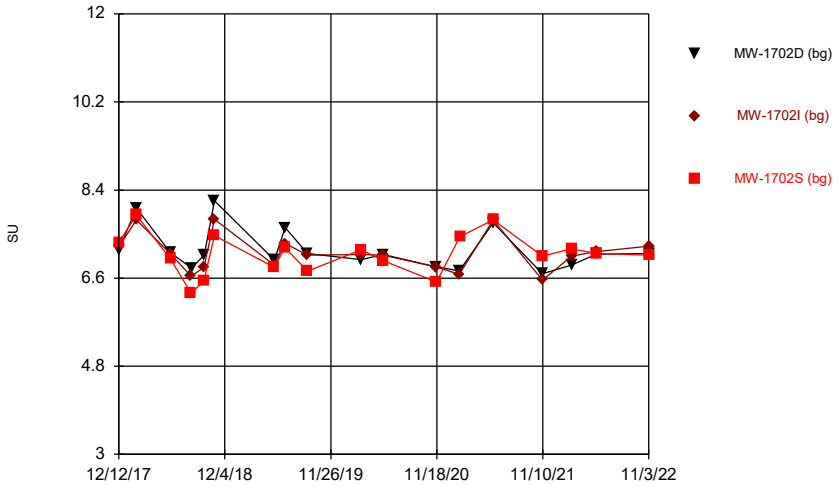
Time Series



Constituent: pH, field Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

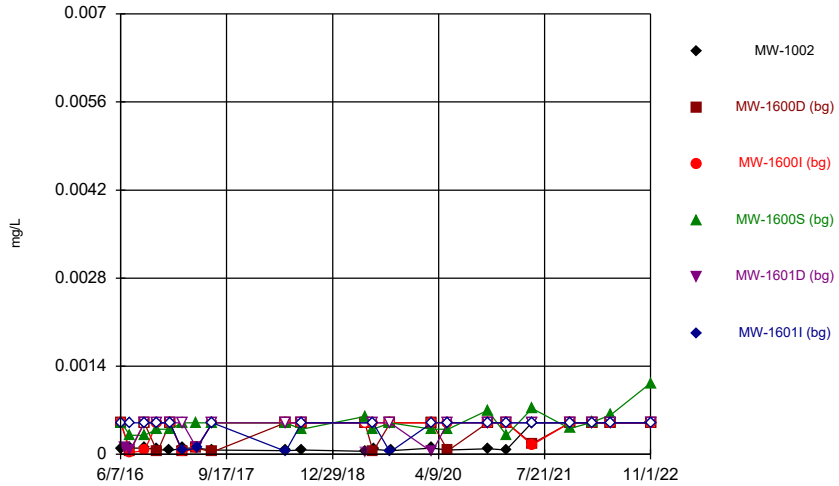
Time Series



Constituent: pH, field Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

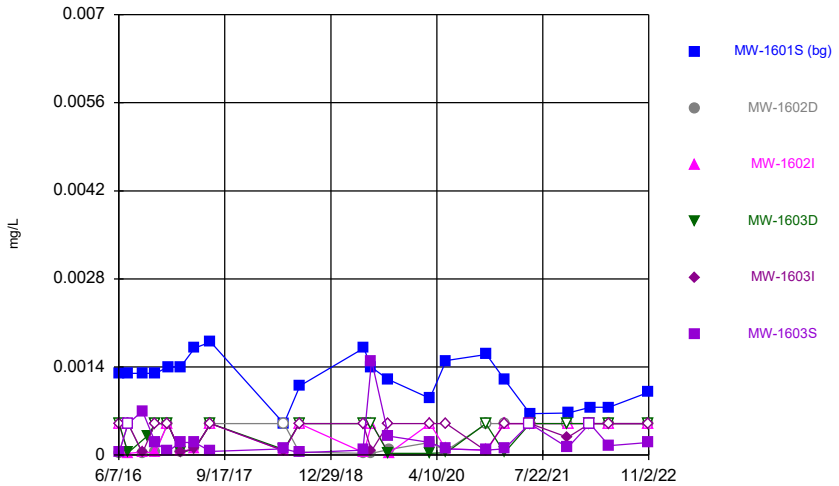
Time Series



Constituent: Selenium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

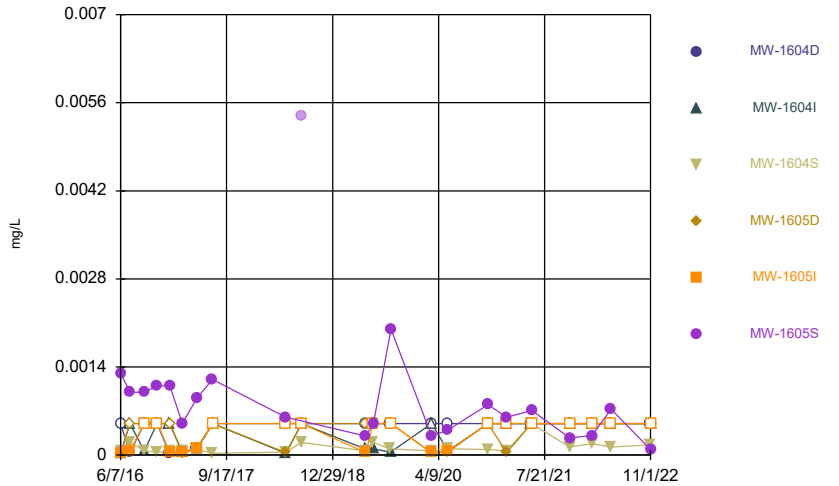
Time Series



Constituent: Selenium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

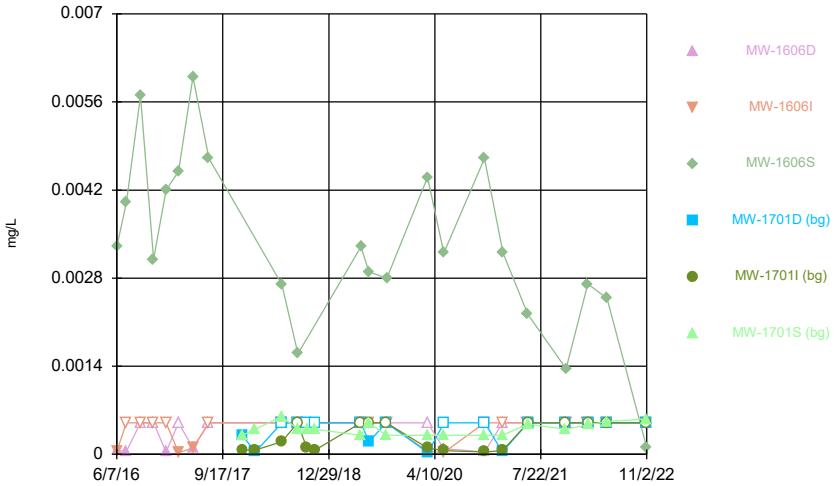
Time Series



Constituent: Selenium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

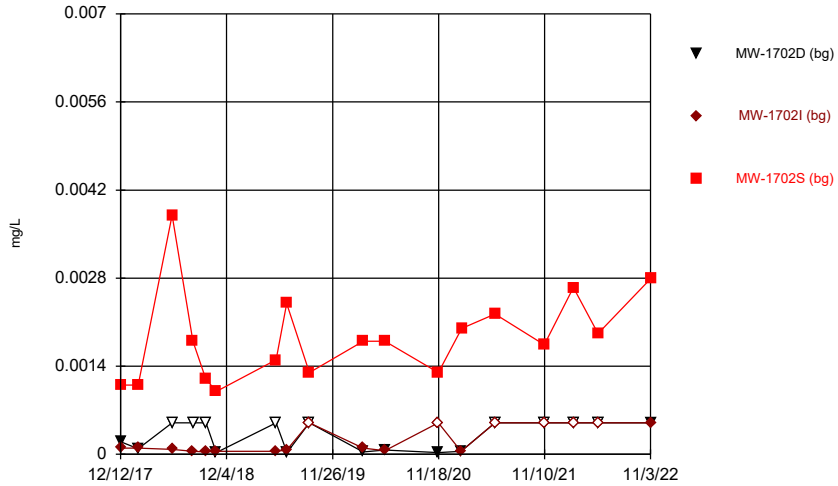
Time Series



Constituent: Selenium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

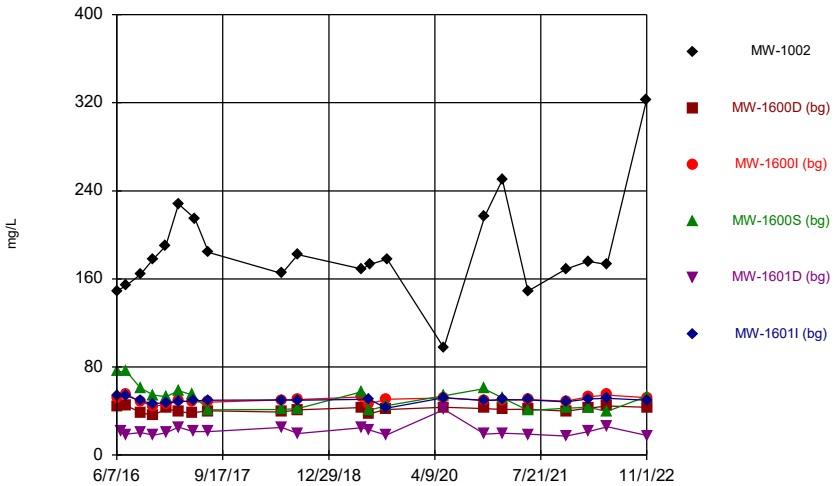
Time Series



Constituent: Selenium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

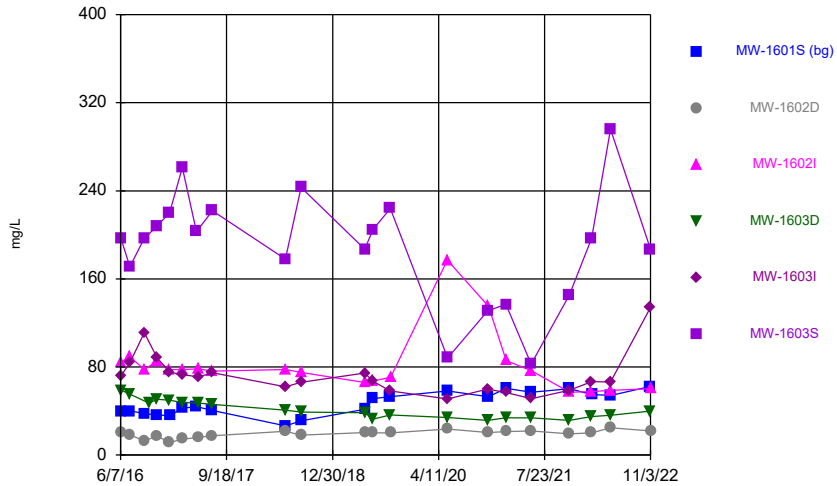
Time Series



Constituent: Sulfate, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

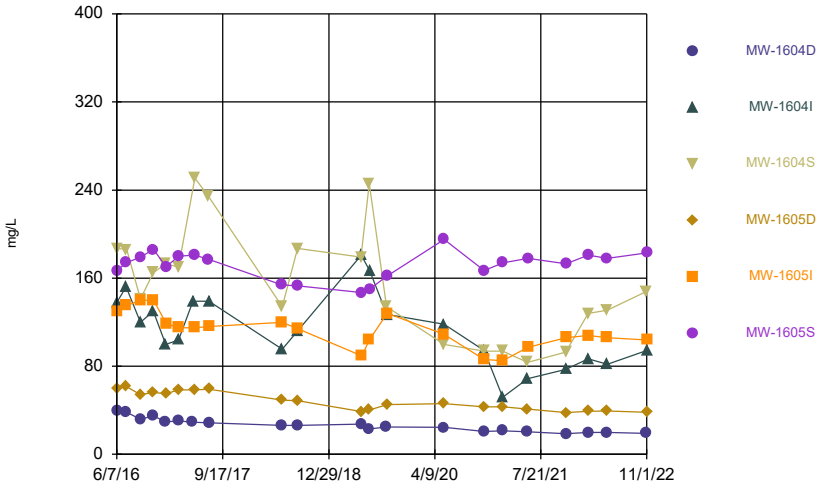
Time Series



Constituent: Sulfate, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

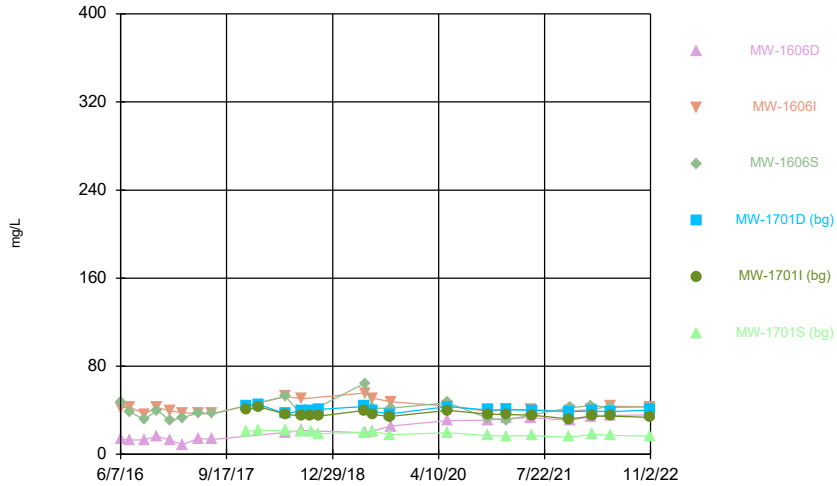
Time Series



Constituent: Sulfate, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

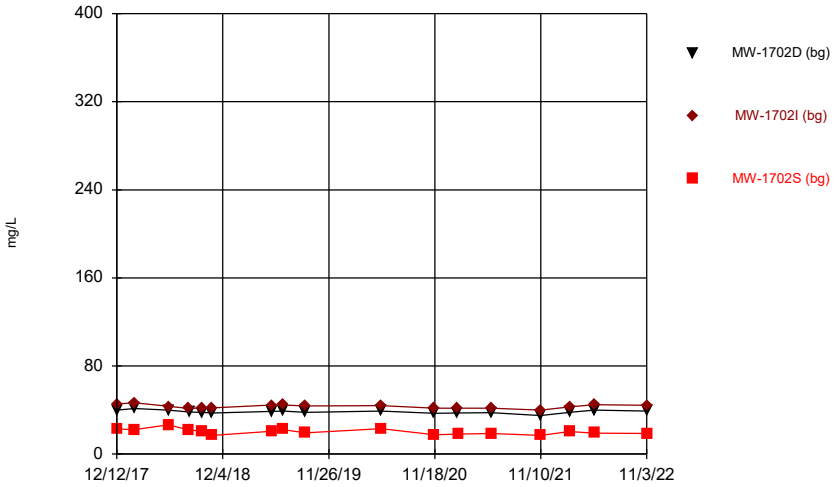
Time Series



Constituent: Sulfate, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

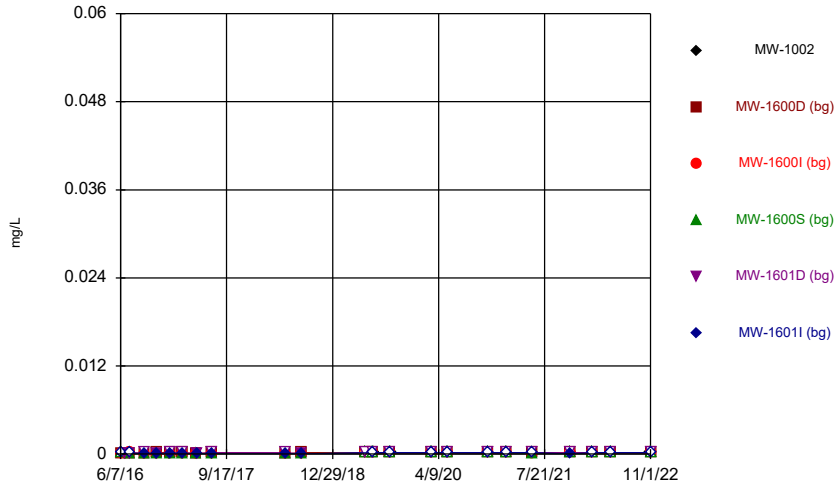
Time Series



Constituent: Sulfate, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

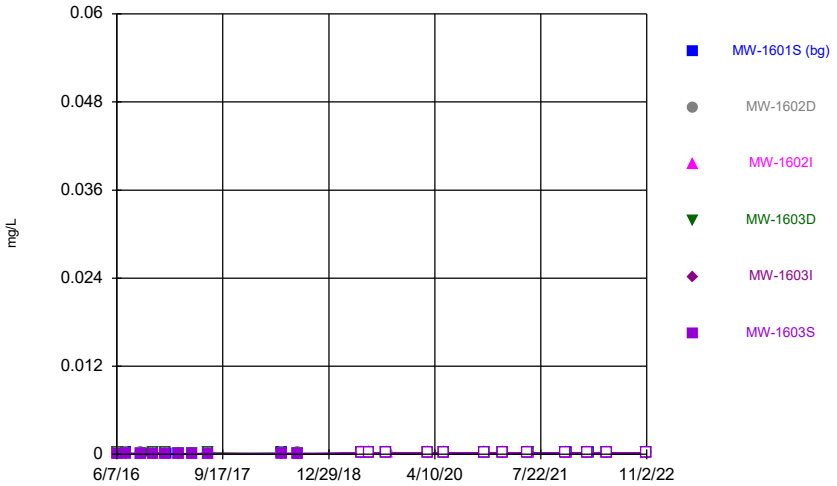
Time Series



Constituent: Thallium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

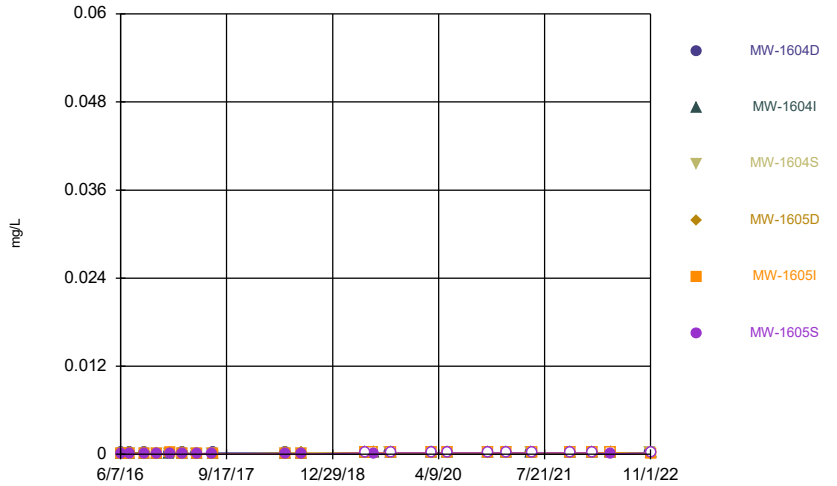
Time Series



Constituent: Thallium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

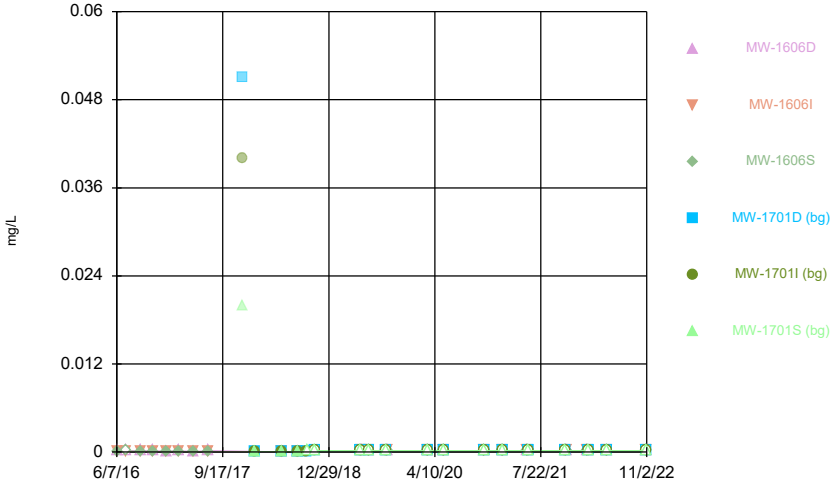
Time Series



Constituent: Thallium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

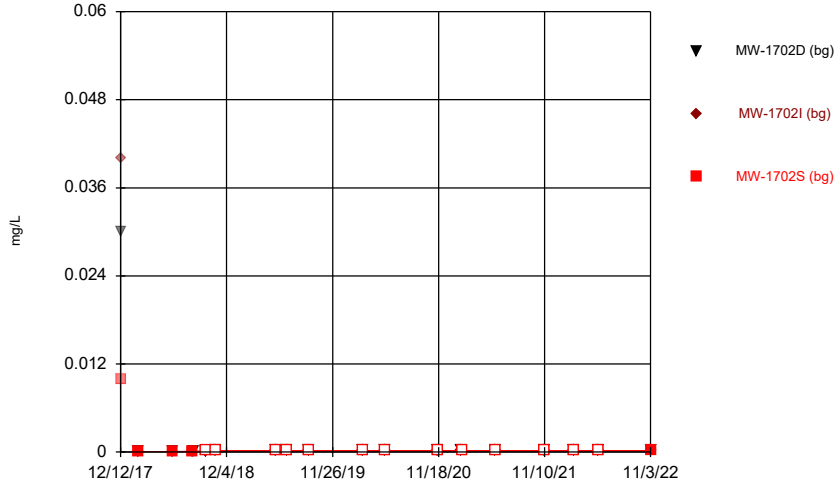
Time Series



Constituent: Thallium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

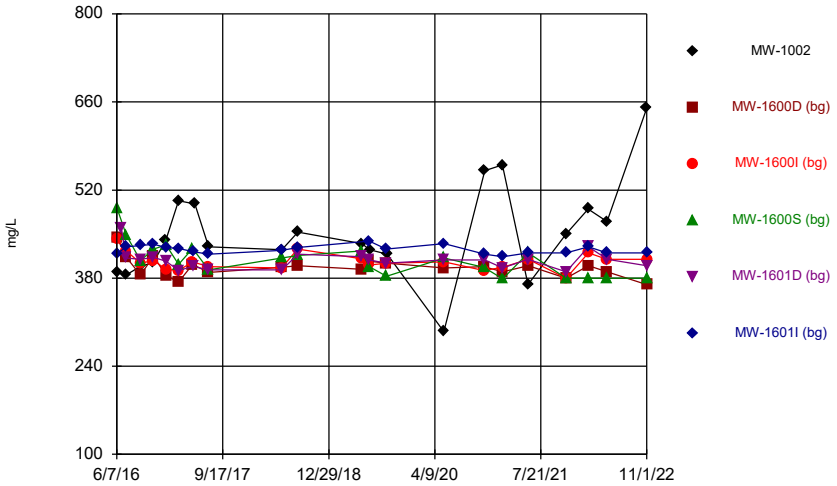
Time Series



Constituent: Thallium, total Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

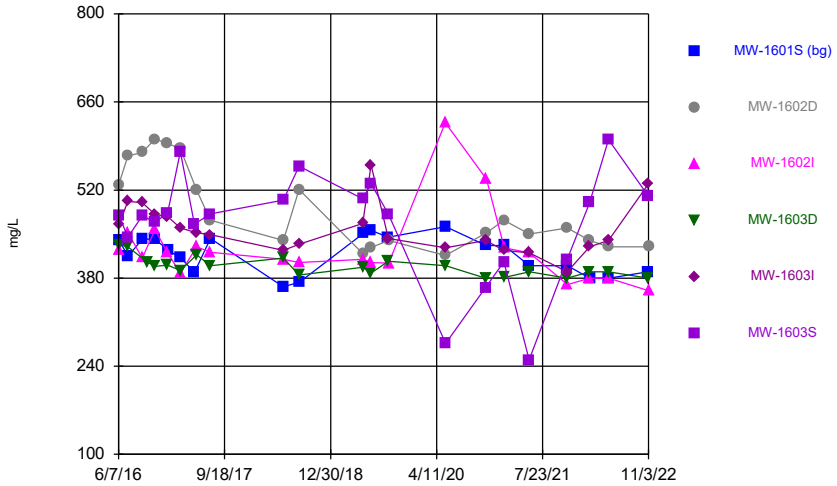
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

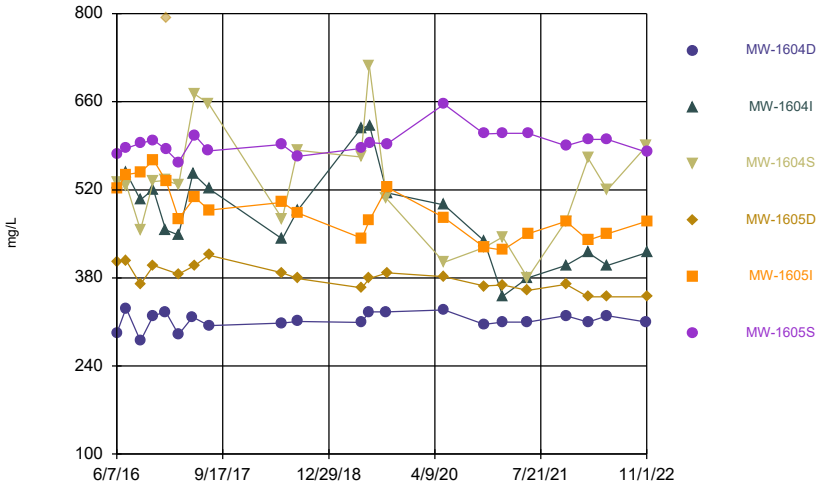
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

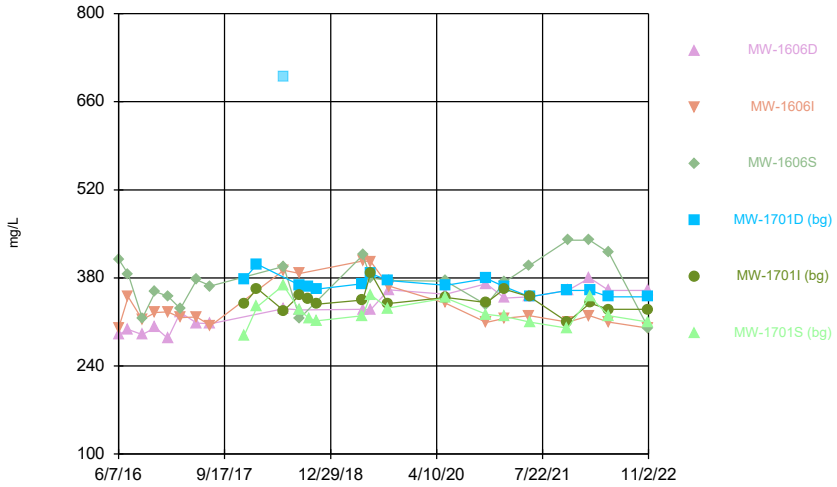
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

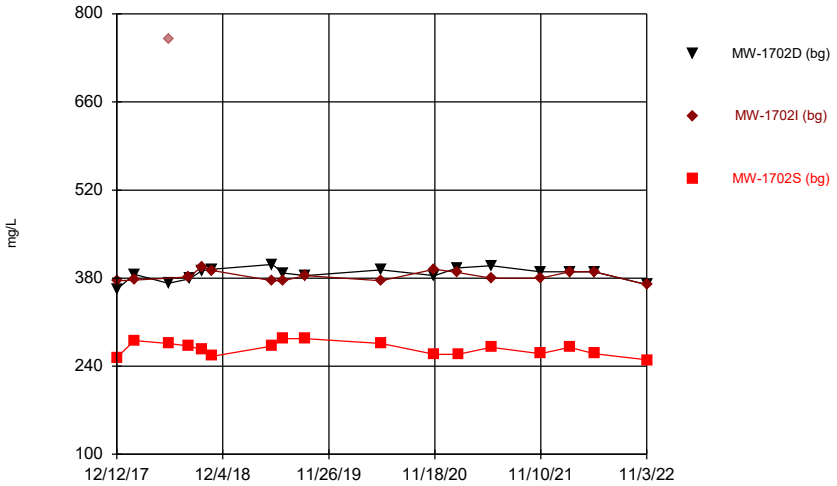
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series

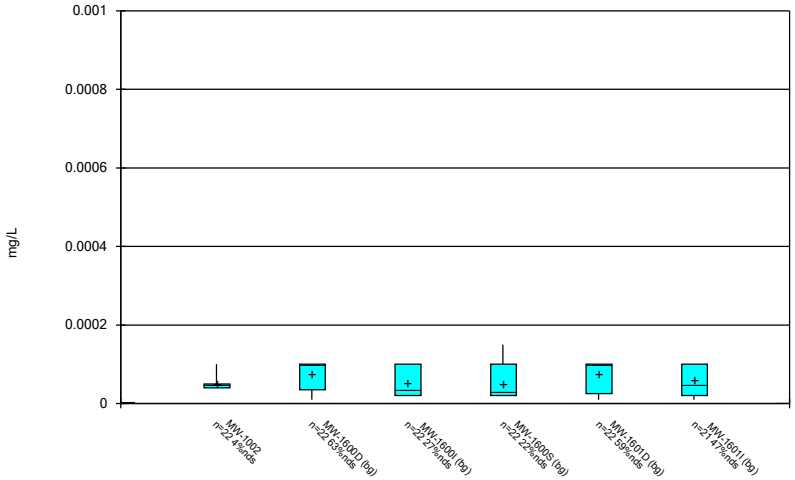


Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:04 PM View: Time Series & Box Plot

Rockport BAP Client: Geosyntec Data: Rockport_BAP

FIGURE B
Box Plots

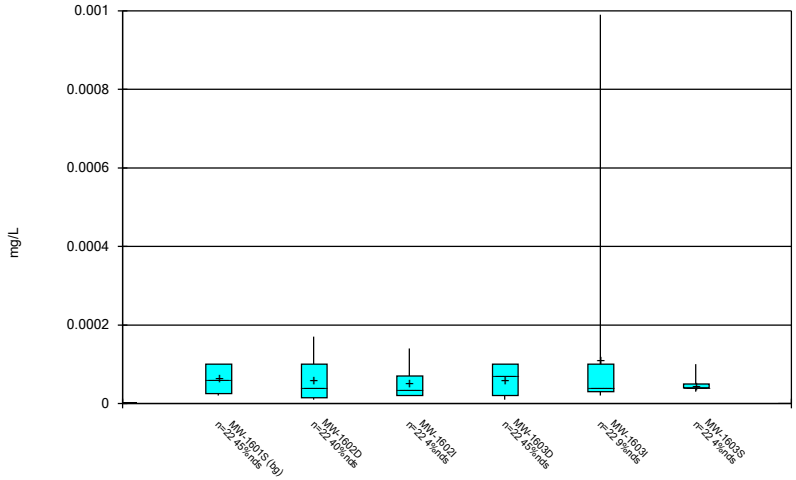
Box & Whiskers Plot



Constituent: Antimony, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

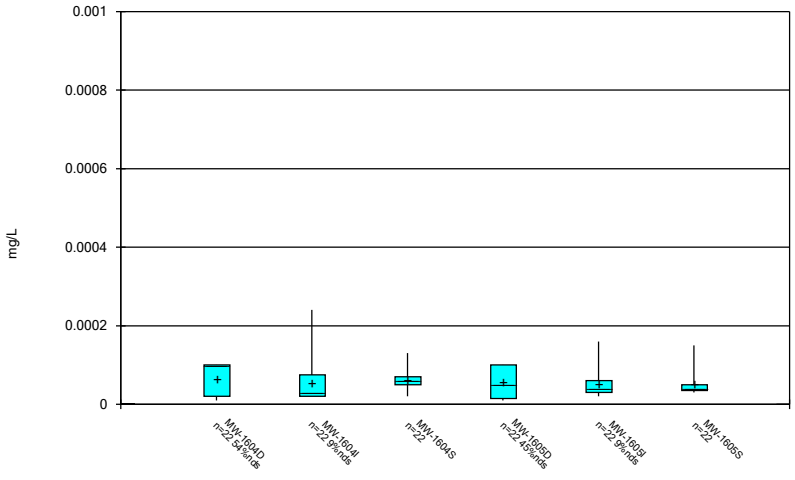
Box & Whiskers Plot



Constituent: Antimony, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

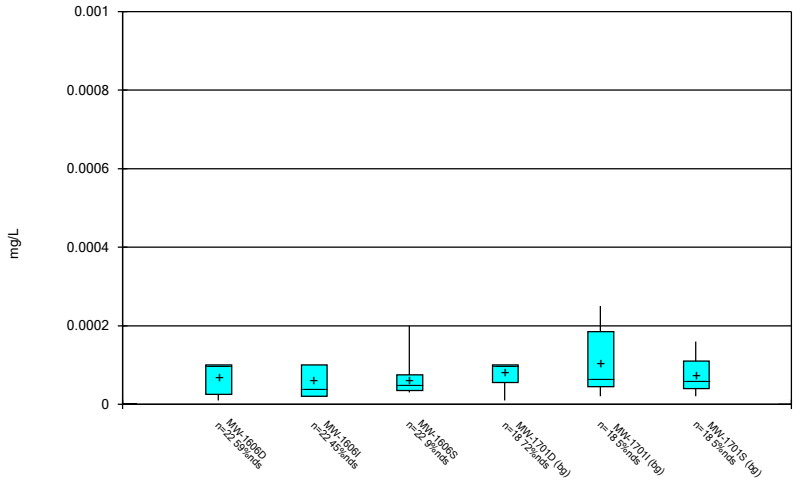
Box & Whiskers Plot



Constituent: Antimony, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

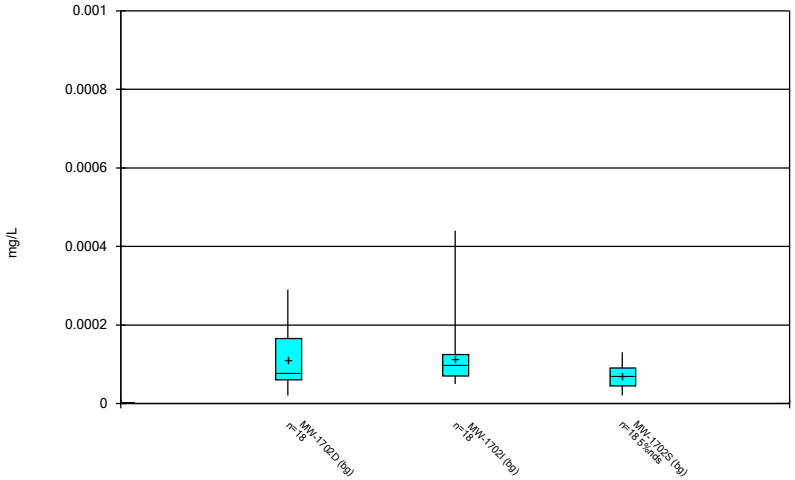
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Antimony, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

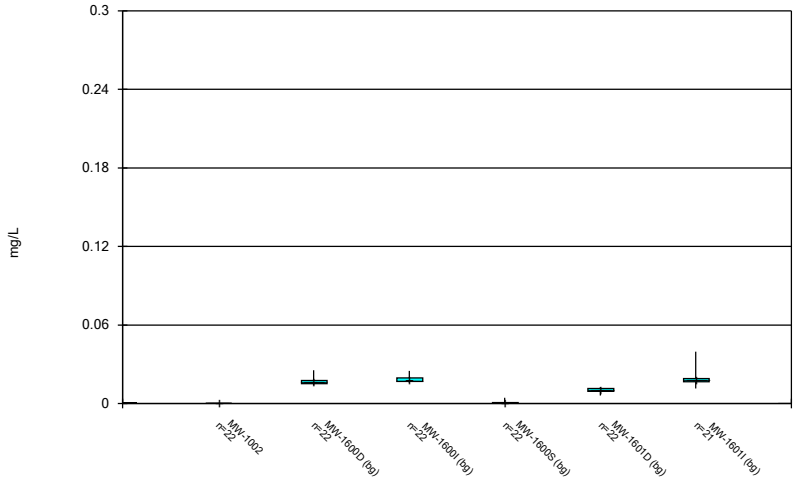
Box & Whiskers Plot



Constituent: Antimony, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

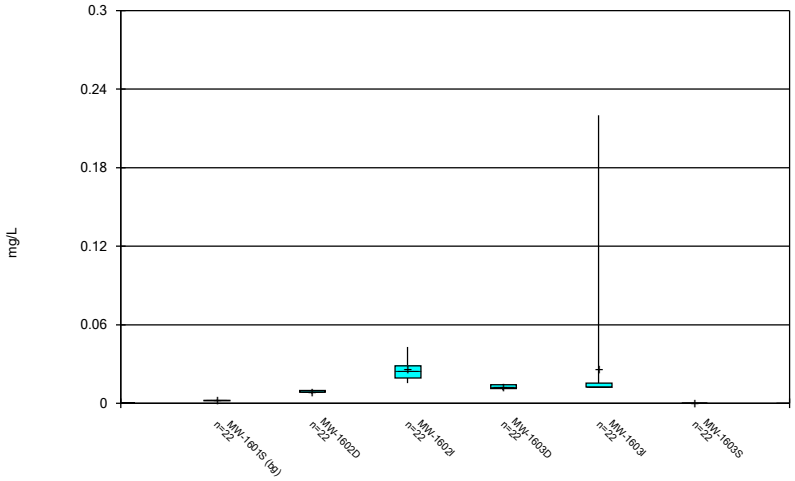
Box & Whiskers Plot



Constituent: Arsenic, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

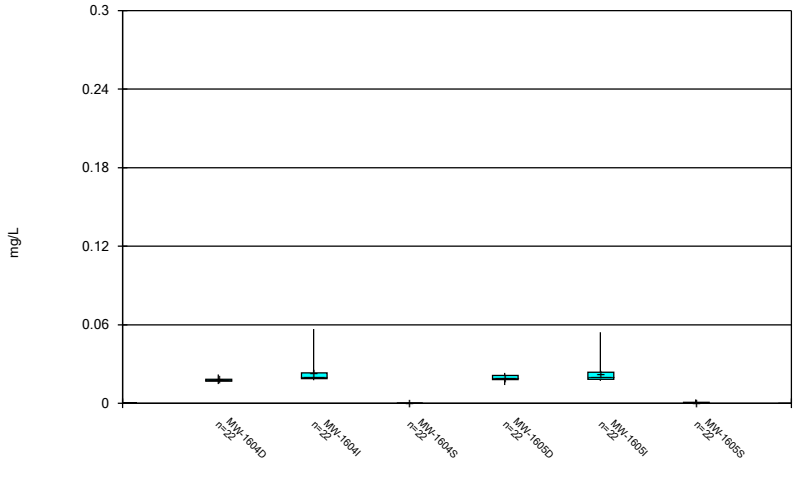
Box & Whiskers Plot



Constituent: Arsenic, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

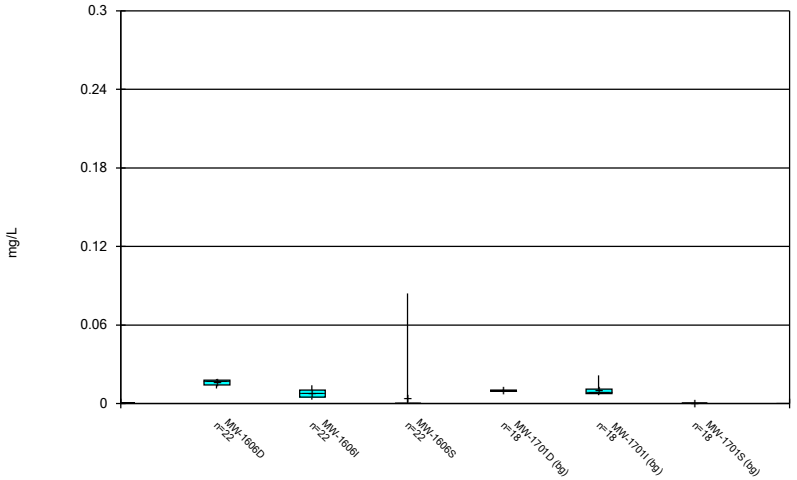
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Arsenic, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

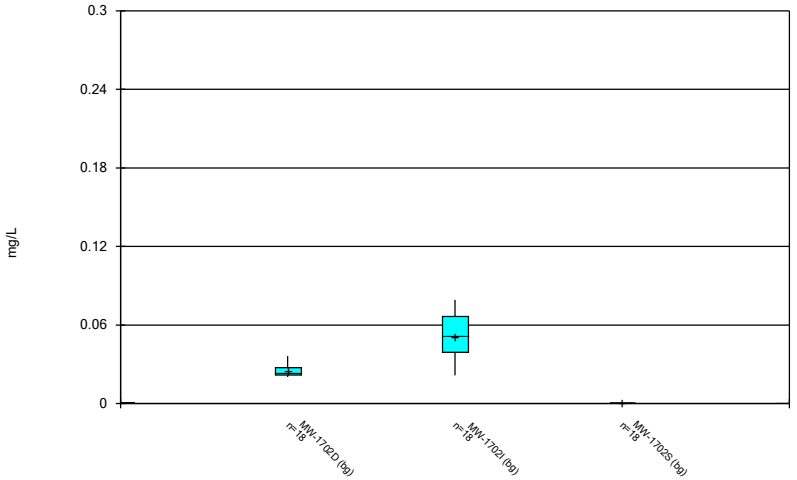
Box & Whiskers Plot



Constituent: Arsenic, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

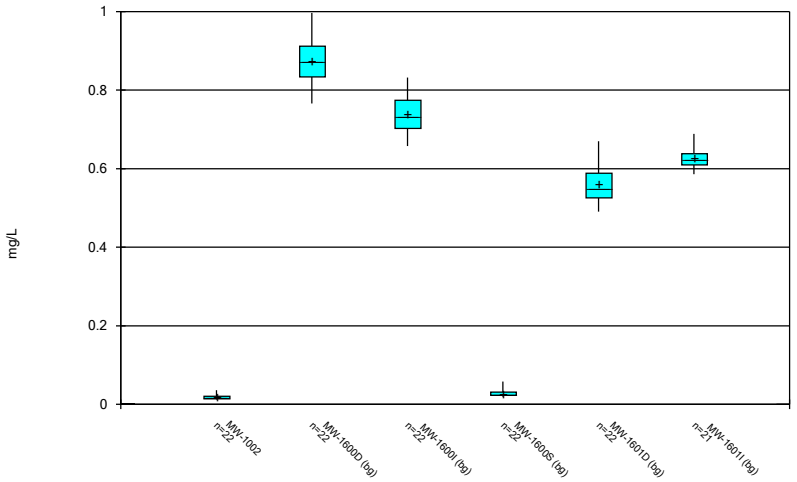
Box & Whiskers Plot



Constituent: Arsenic, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

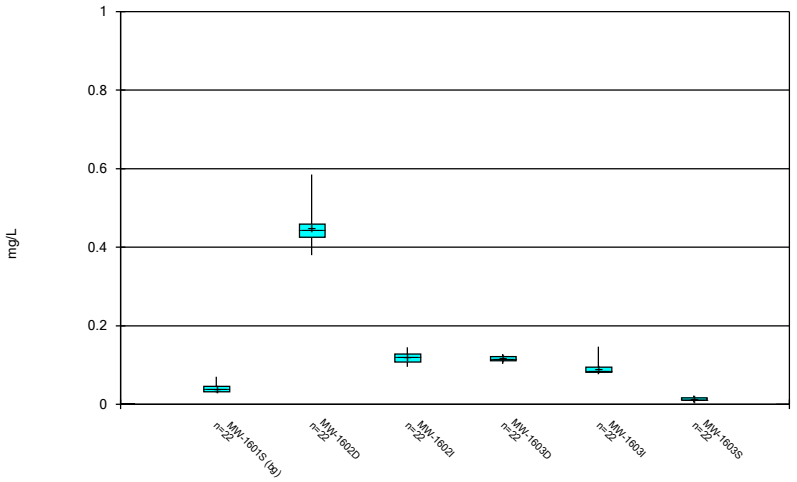
Box & Whiskers Plot



Constituent: Barium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

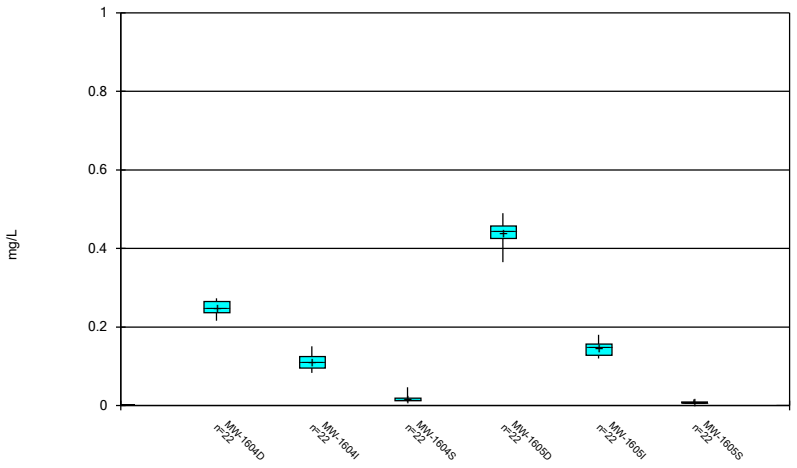
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Barium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

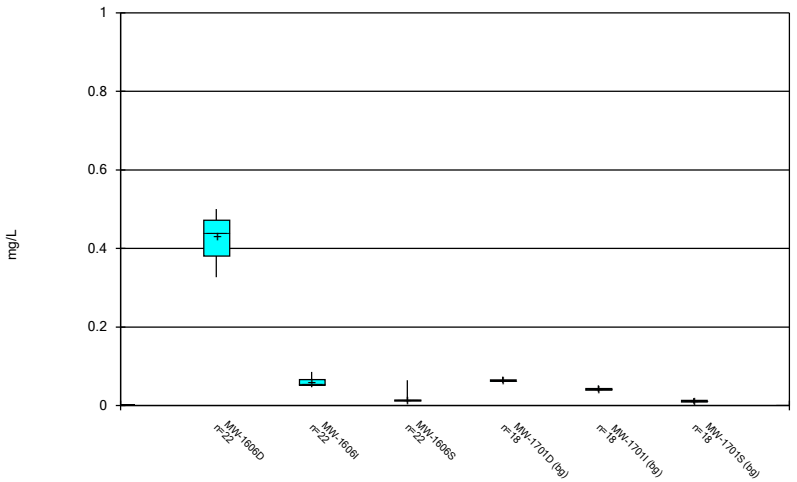
Box & Whiskers Plot



Constituent: Barium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

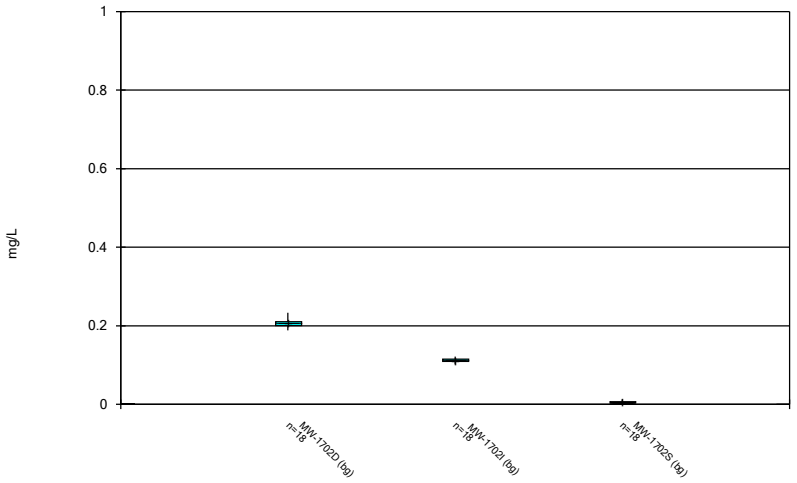
Box & Whiskers Plot



Constituent: Barium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

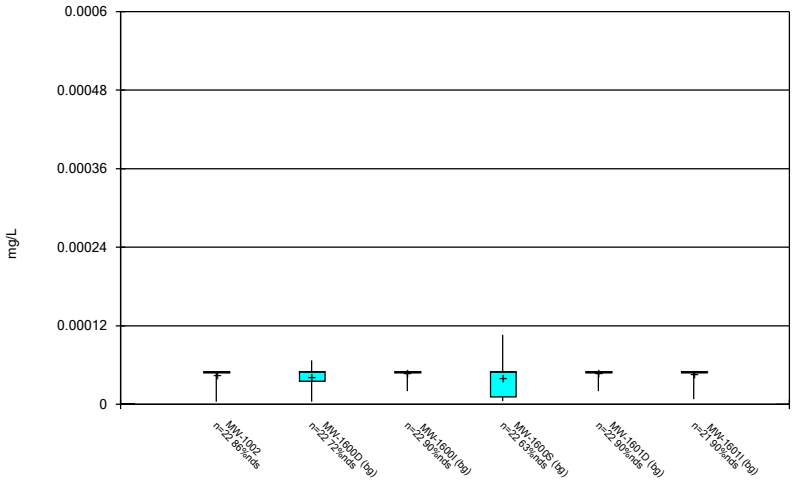
Box & Whiskers Plot



Constituent: Barium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

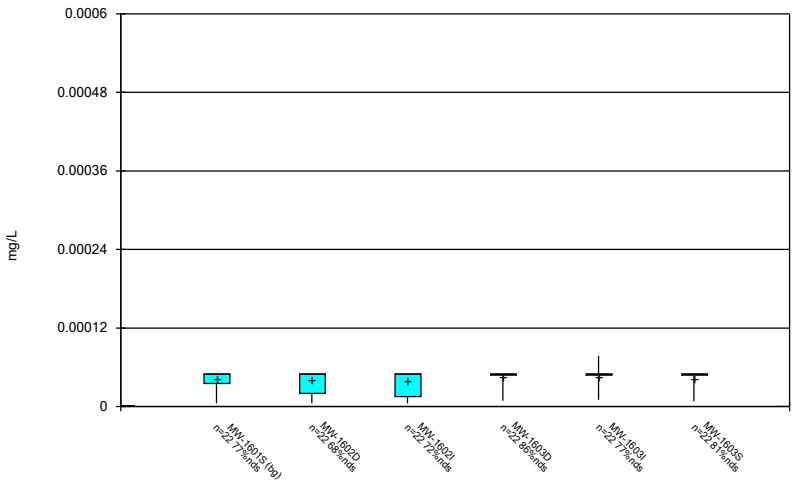
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

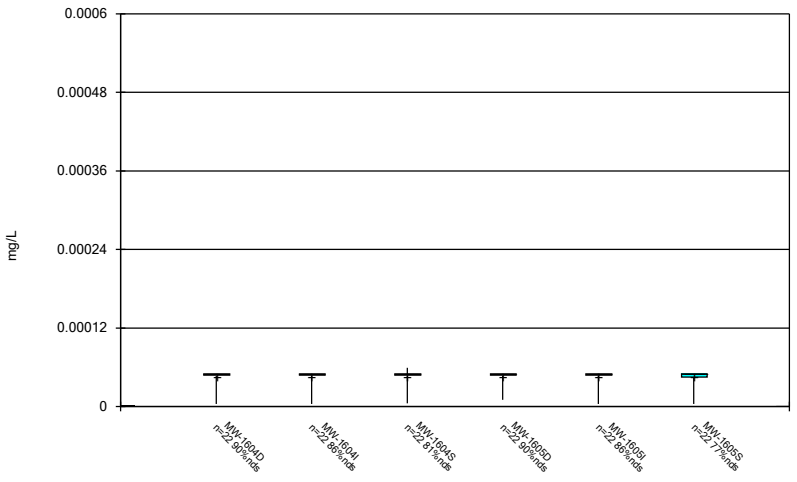
Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

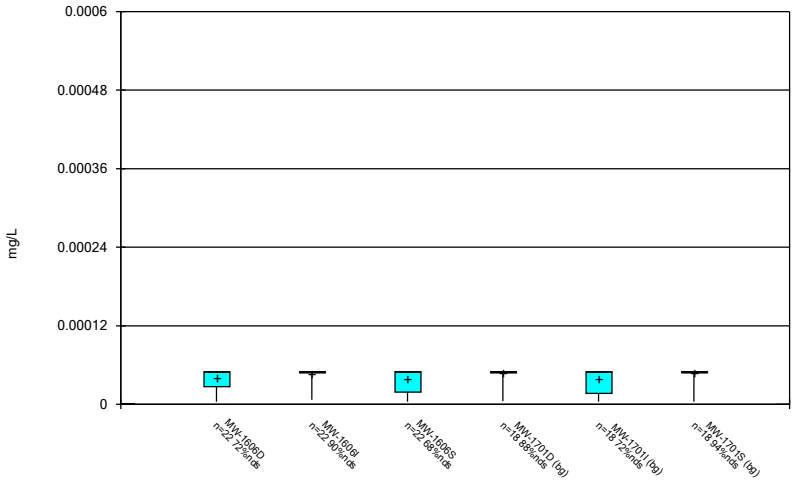
Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

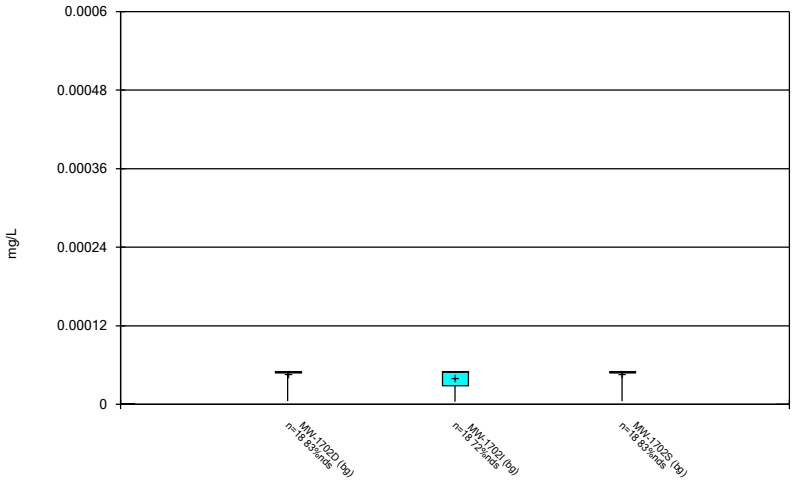
Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

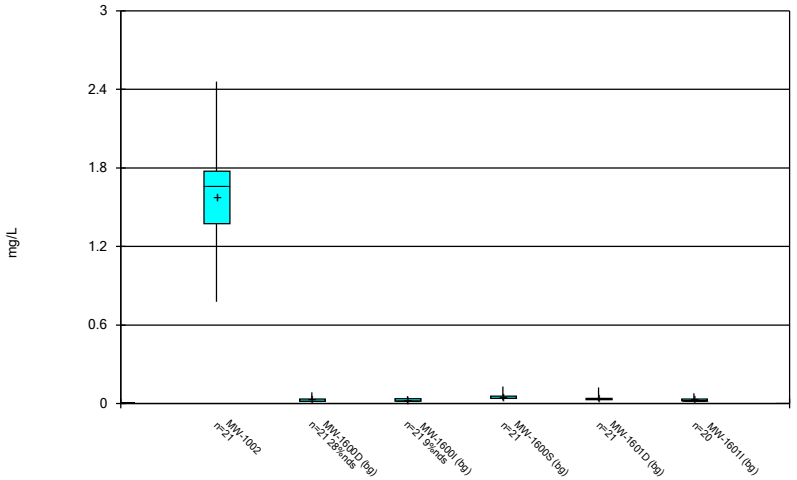
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

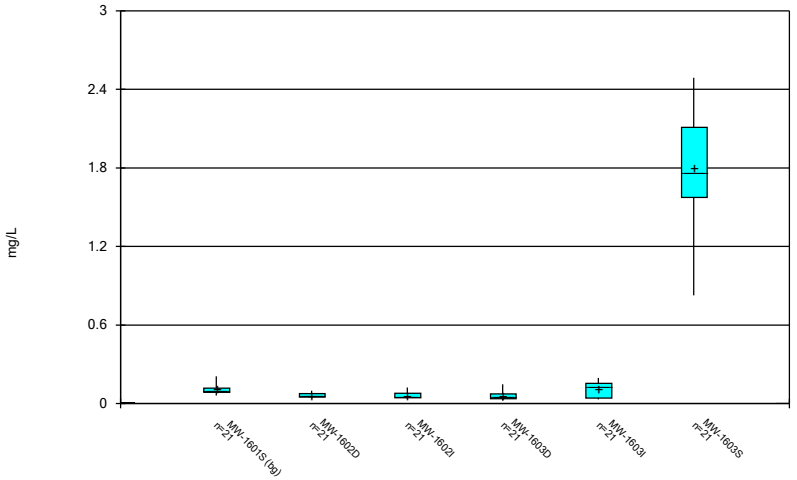
Box & Whiskers Plot



Constituent: Boron, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

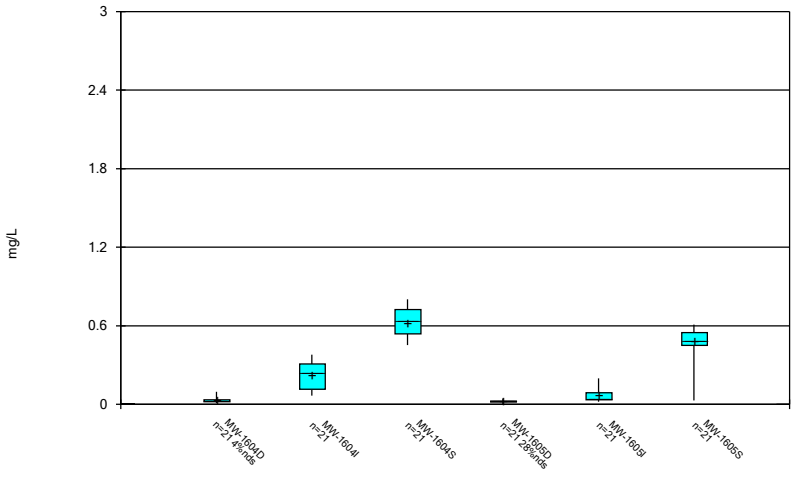
Box & Whiskers Plot



Constituent: Boron, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

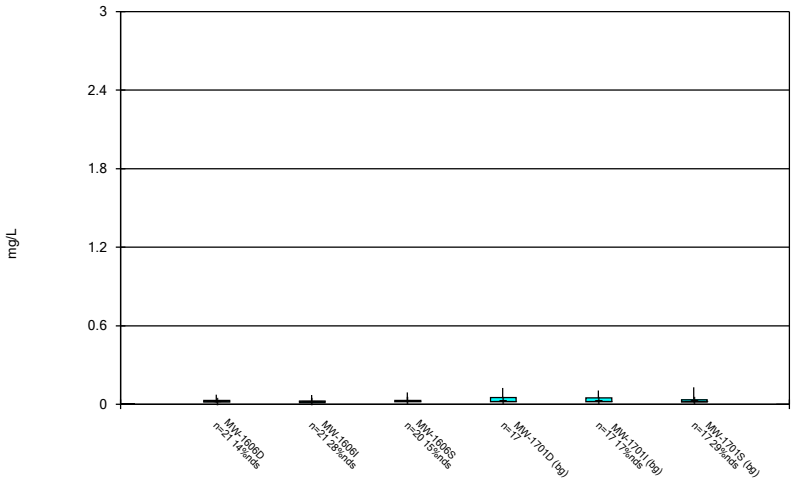
Box & Whiskers Plot



Constituent: Boron, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

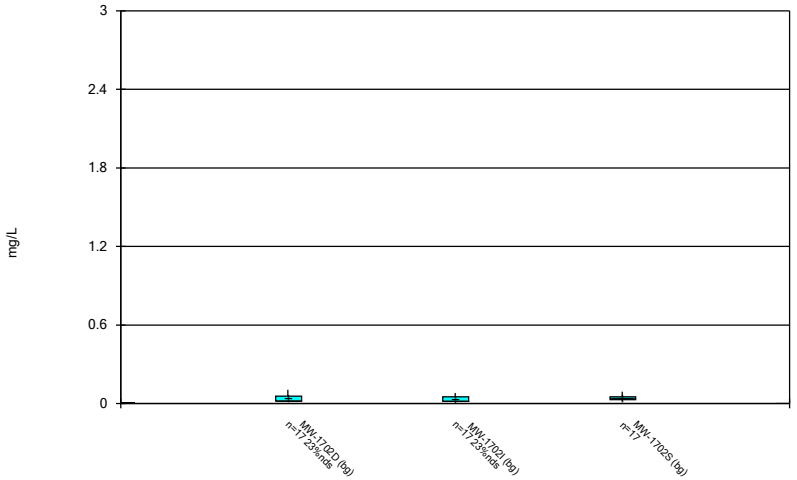
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Boron, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

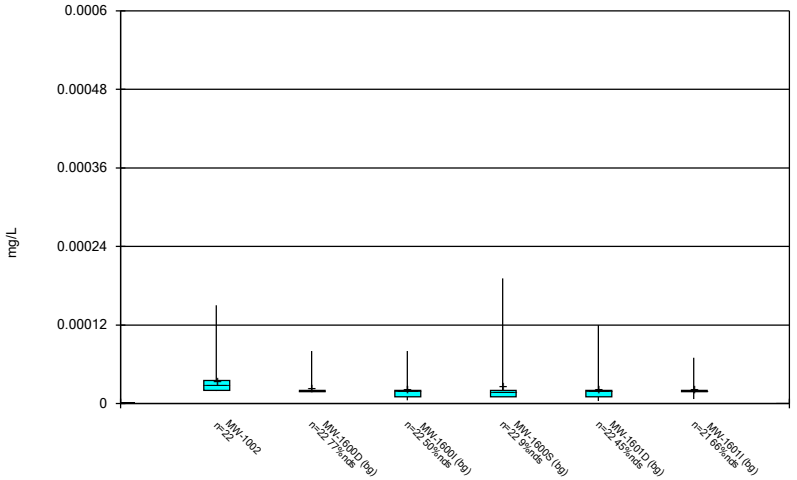
Box & Whiskers Plot



Constituent: Boron, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

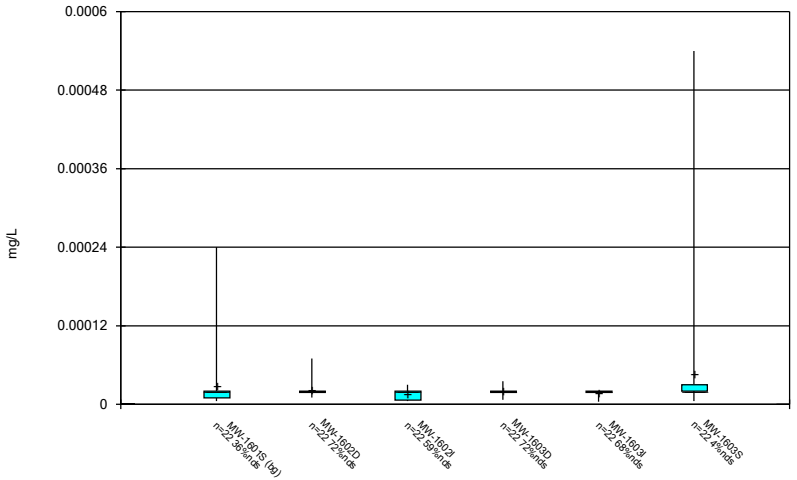
Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

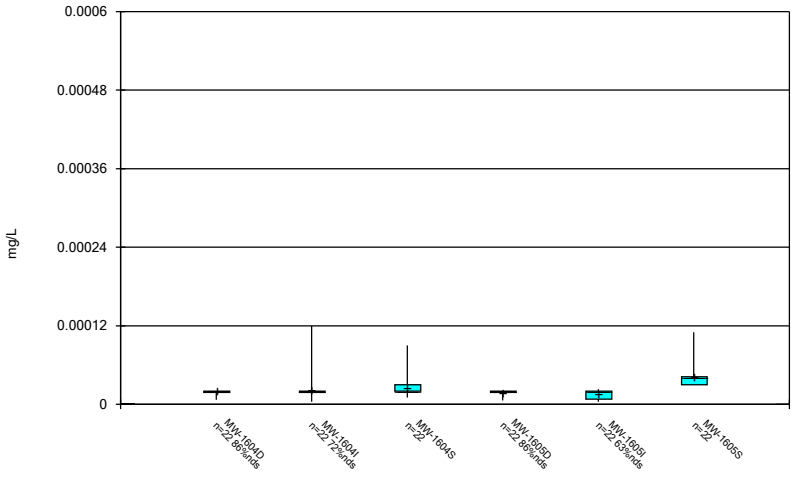
Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

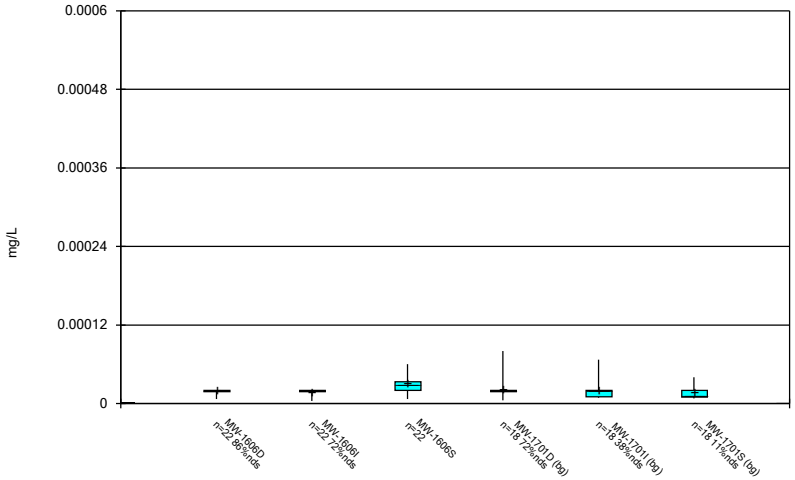
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

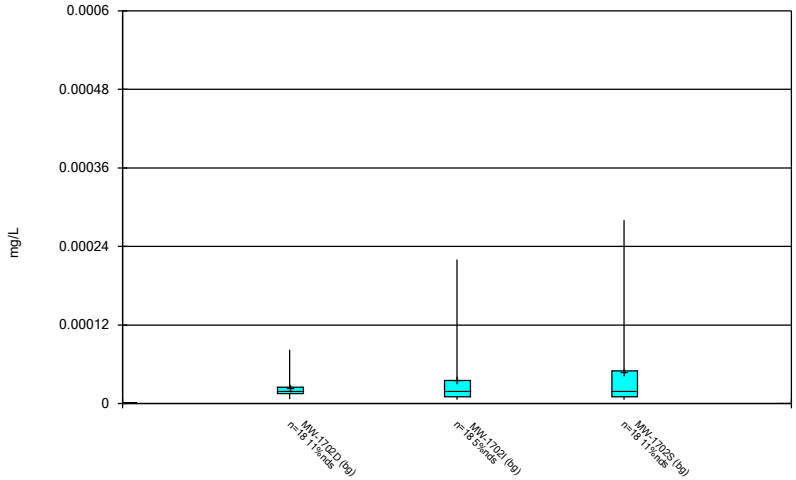
Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

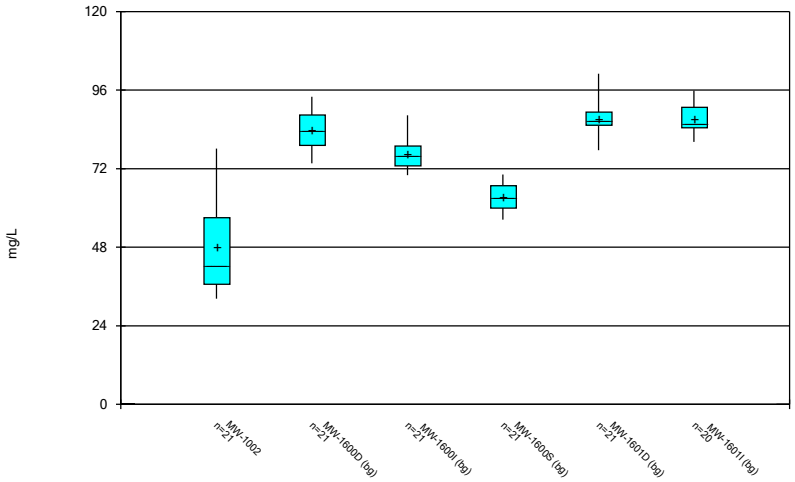
Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

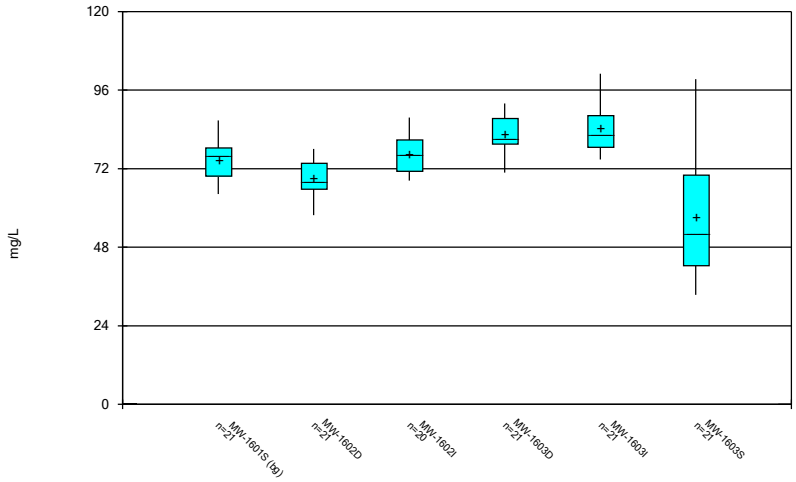
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

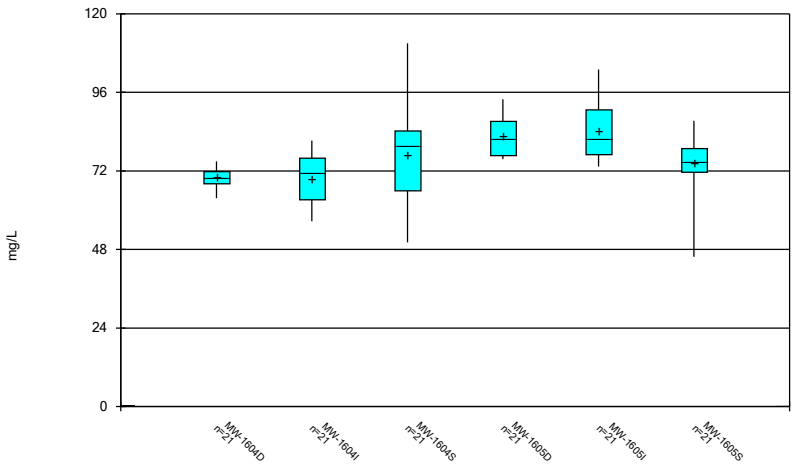
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

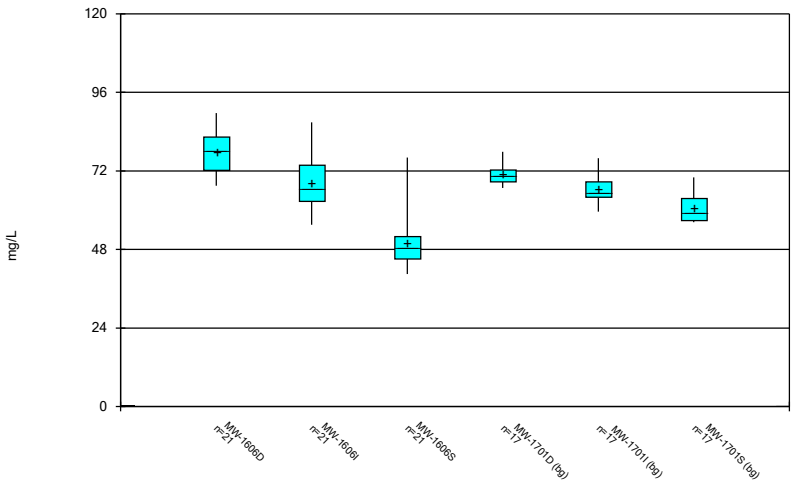
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

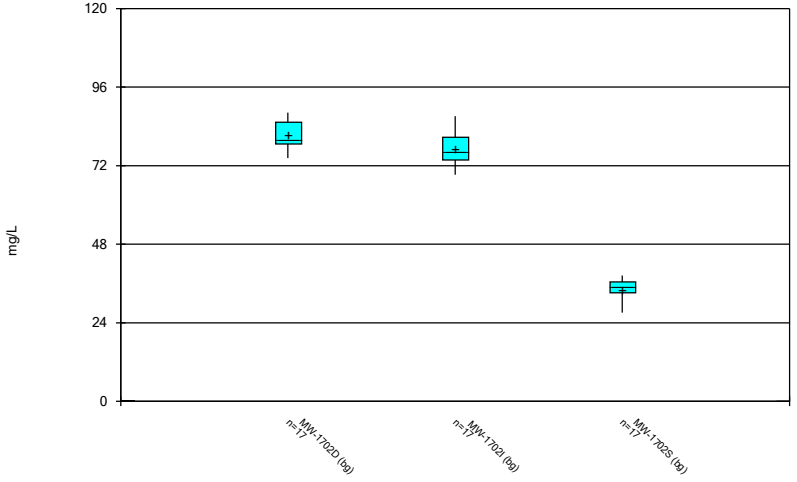
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

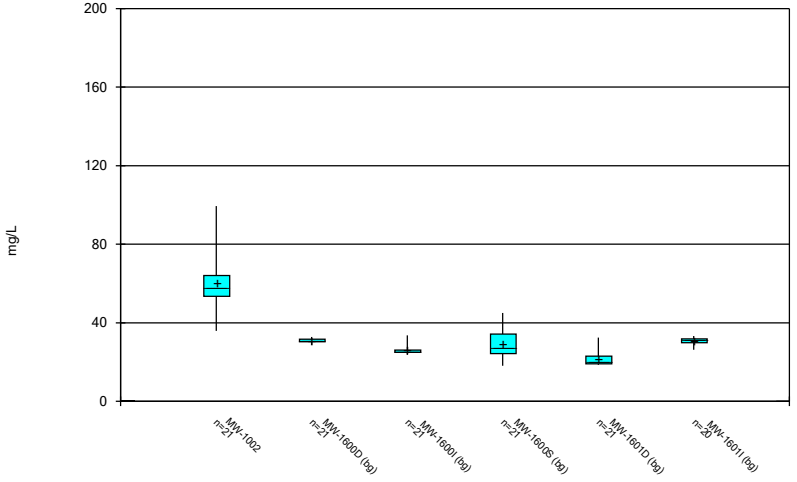
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

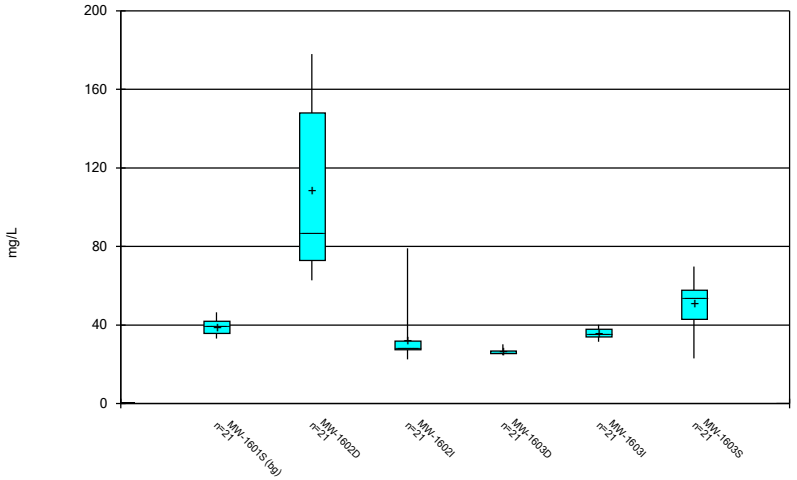
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chloride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

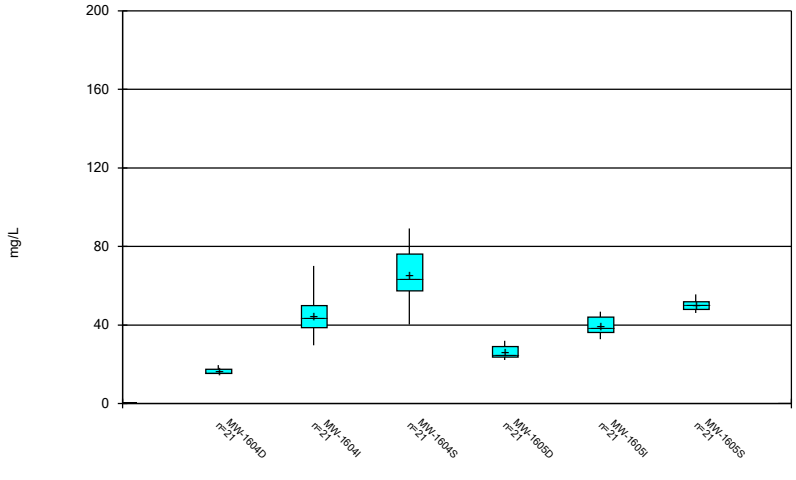
Box & Whiskers Plot



Constituent: Chloride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

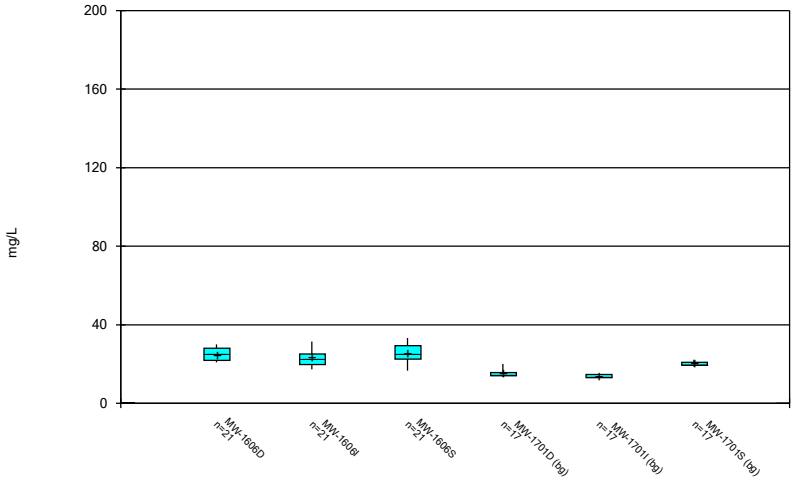
Box & Whiskers Plot



Constituent: Chloride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

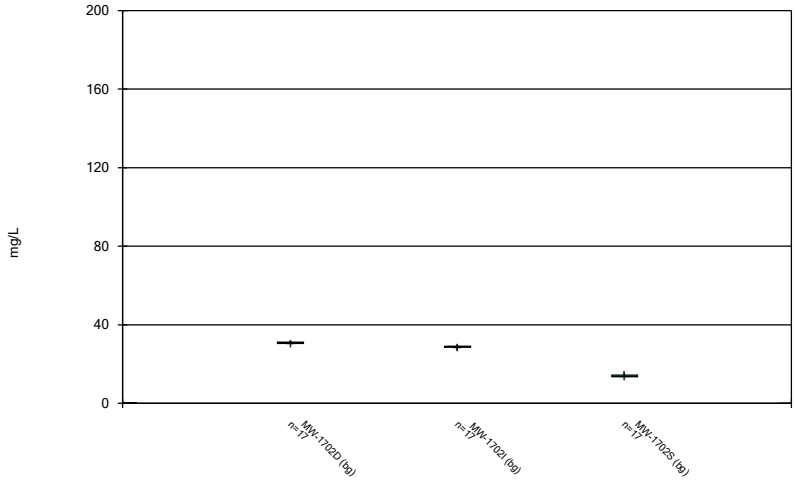
Box & Whiskers Plot



Constituent: Chloride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

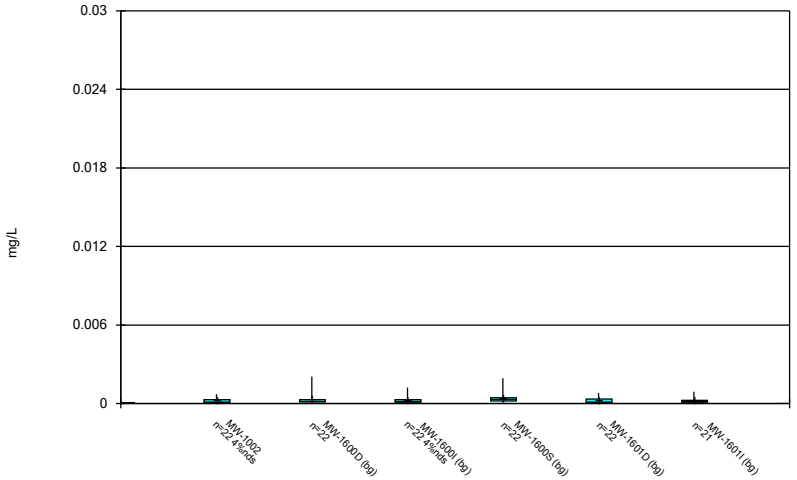
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chloride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

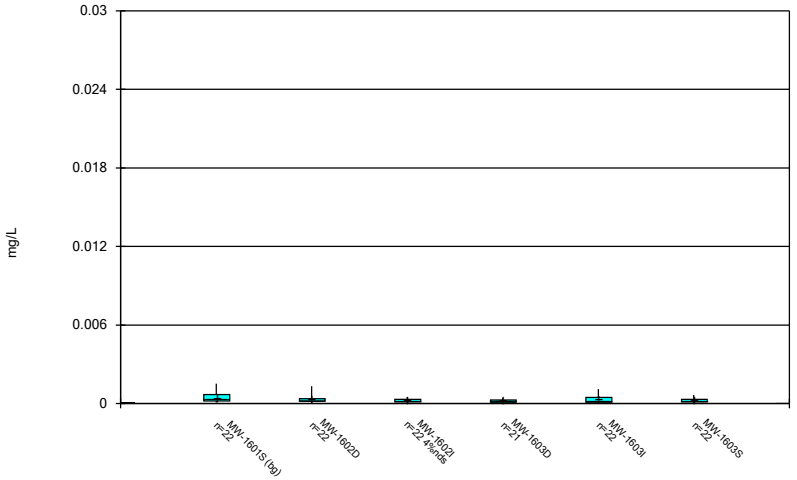
Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

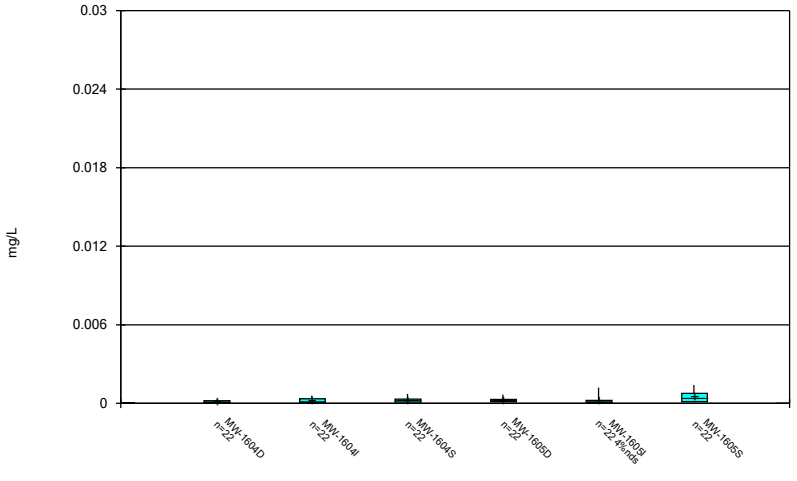
Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

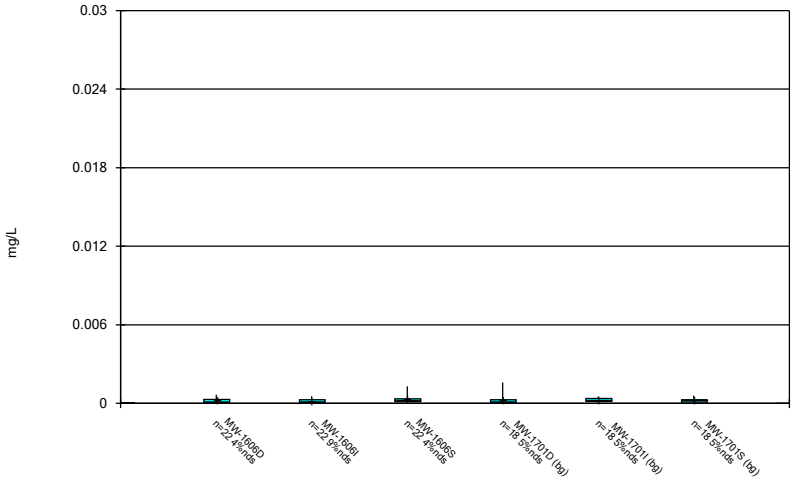
Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

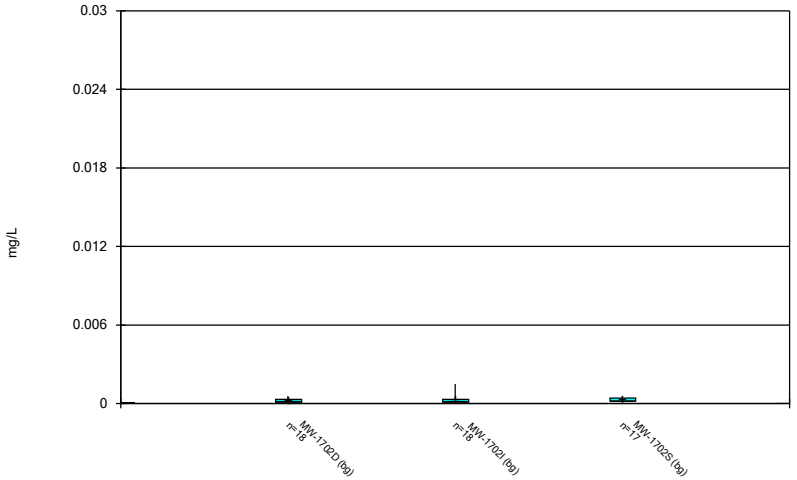
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

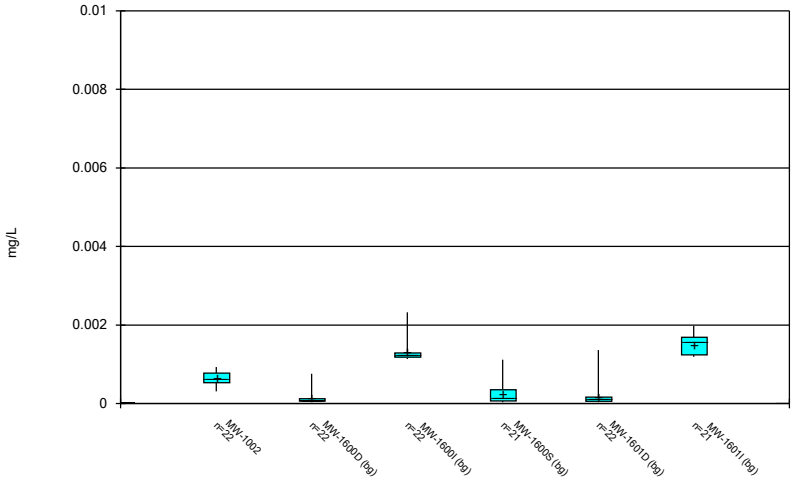
Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

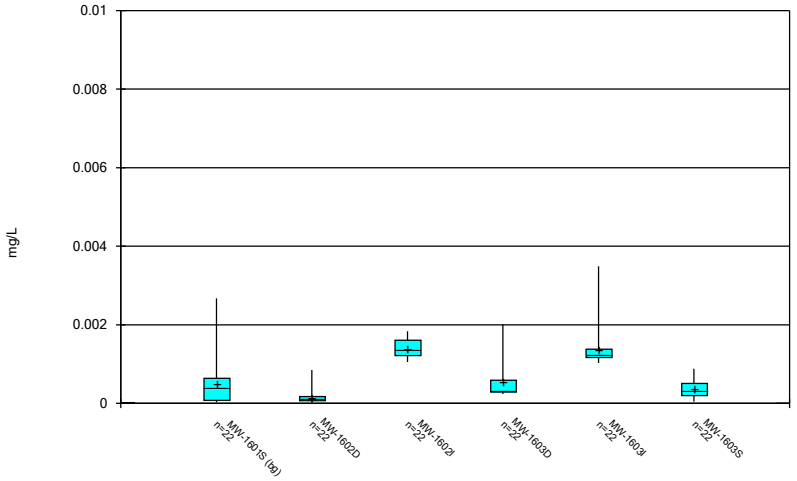
Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

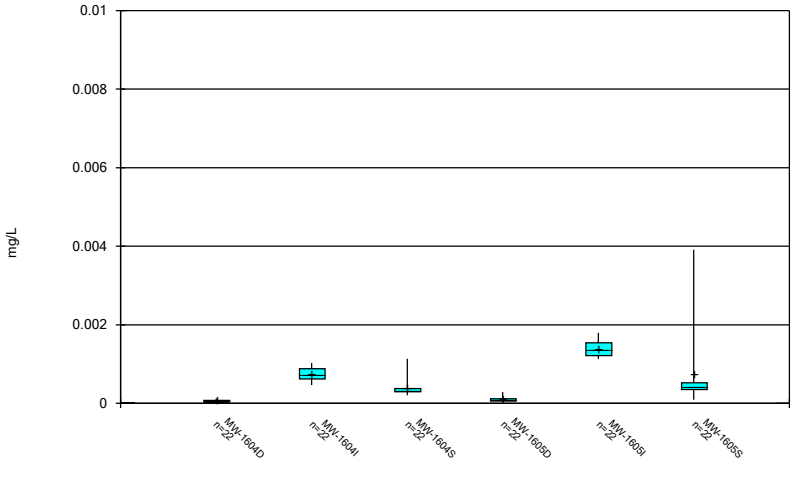
Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

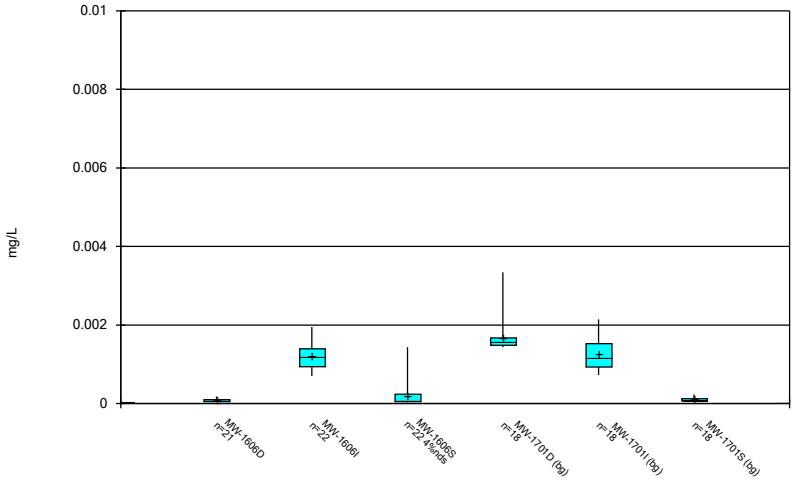
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

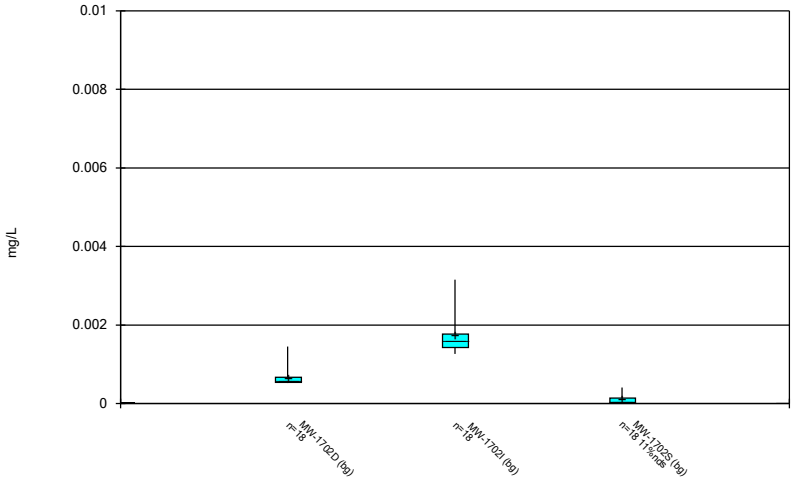
Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

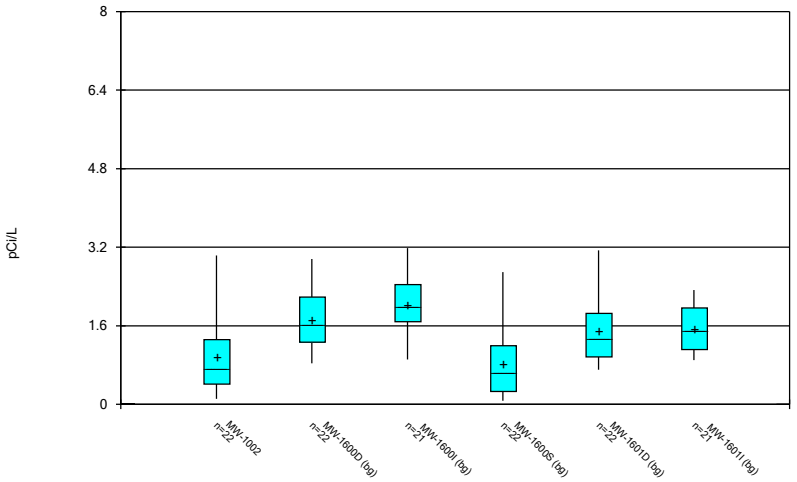
Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

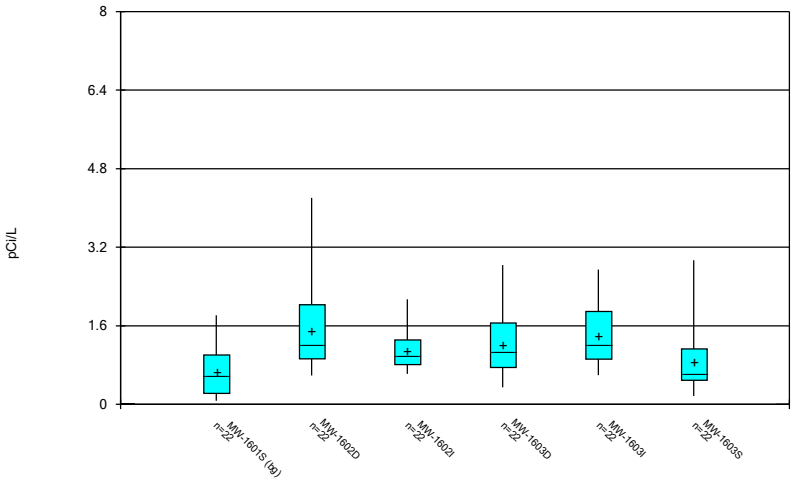
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

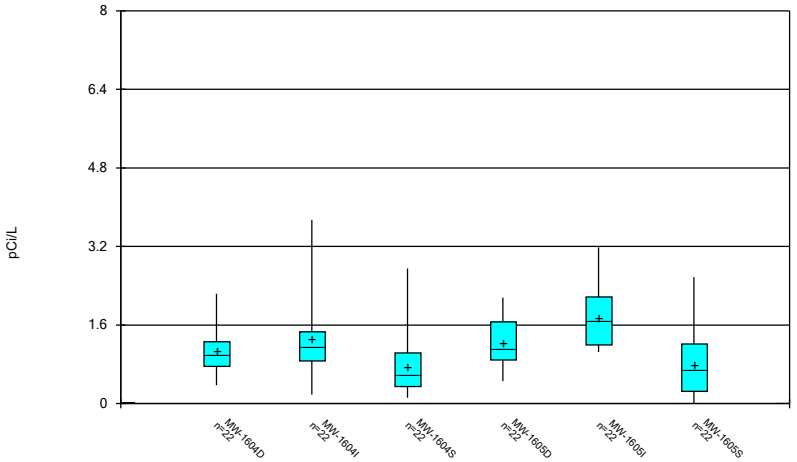
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

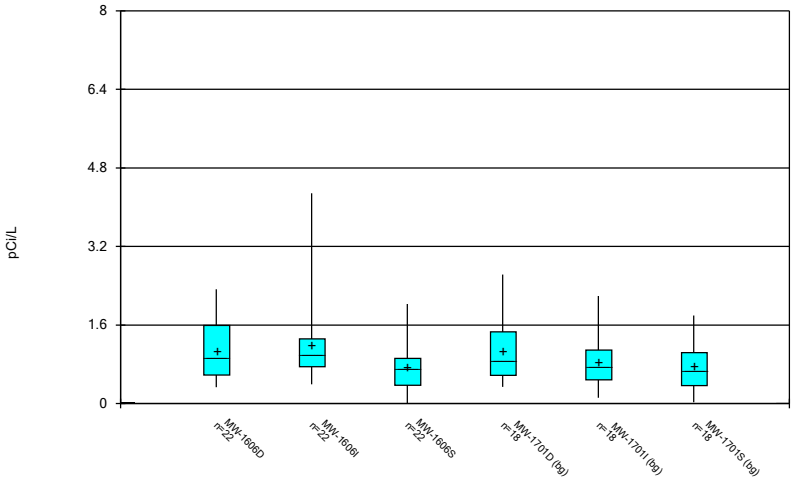
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

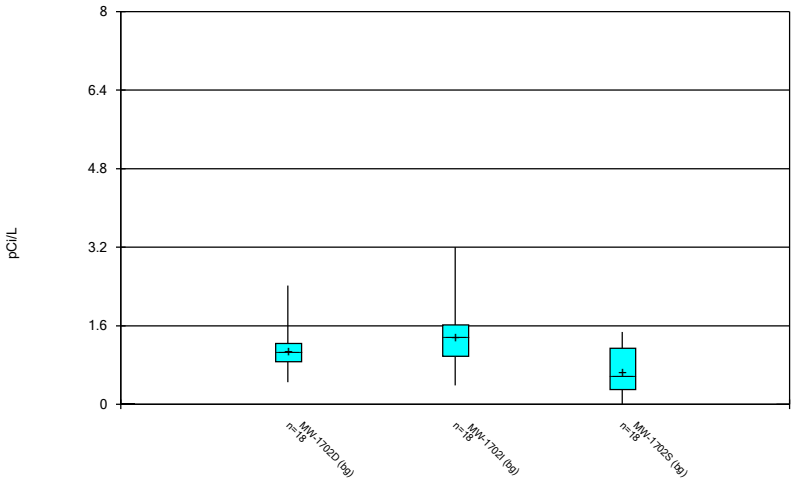
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

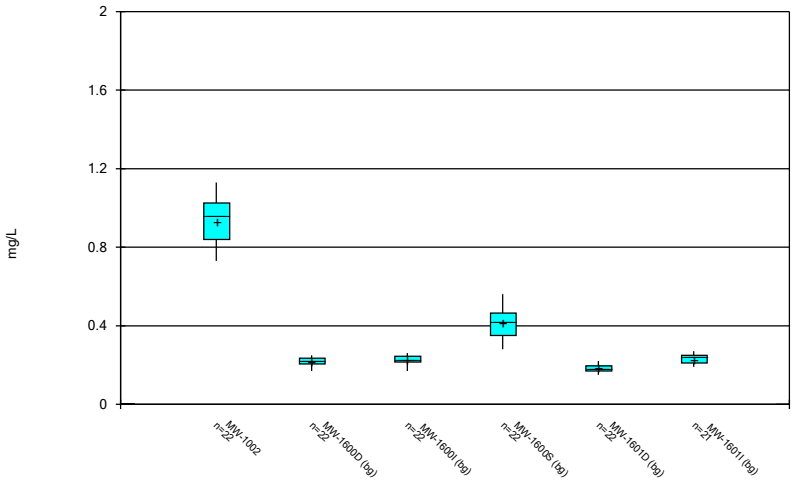
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

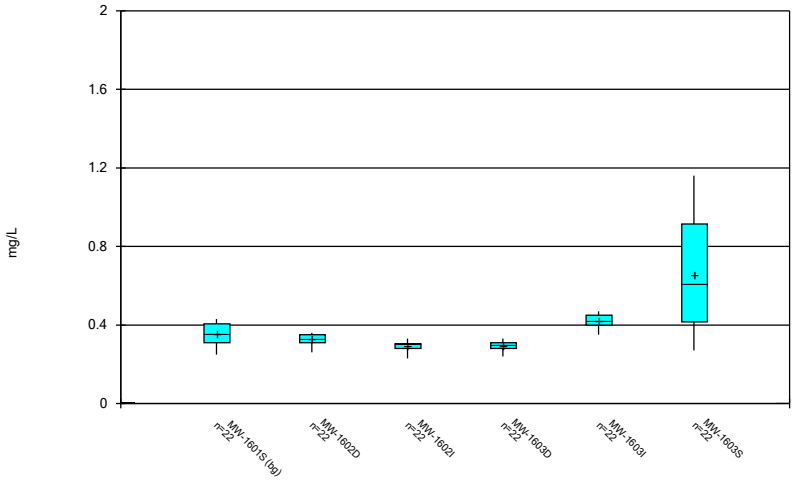
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

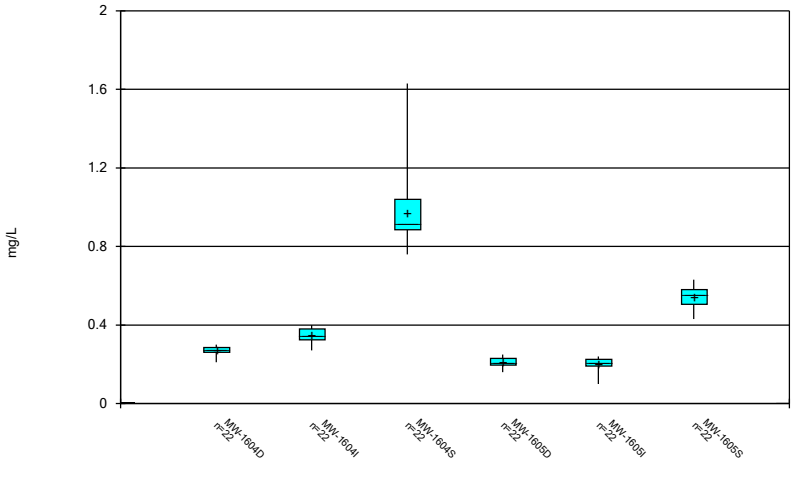
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

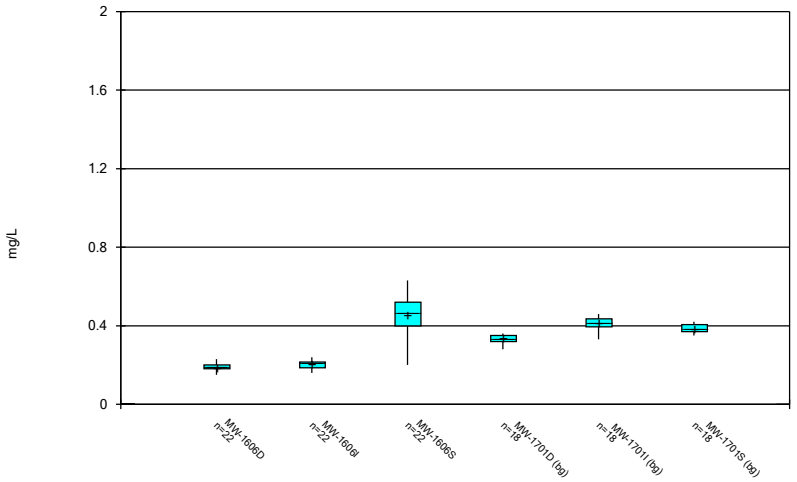
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

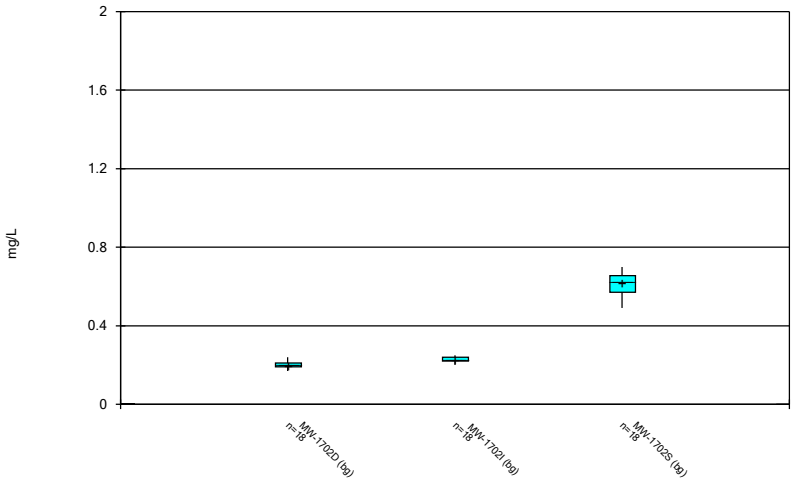
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

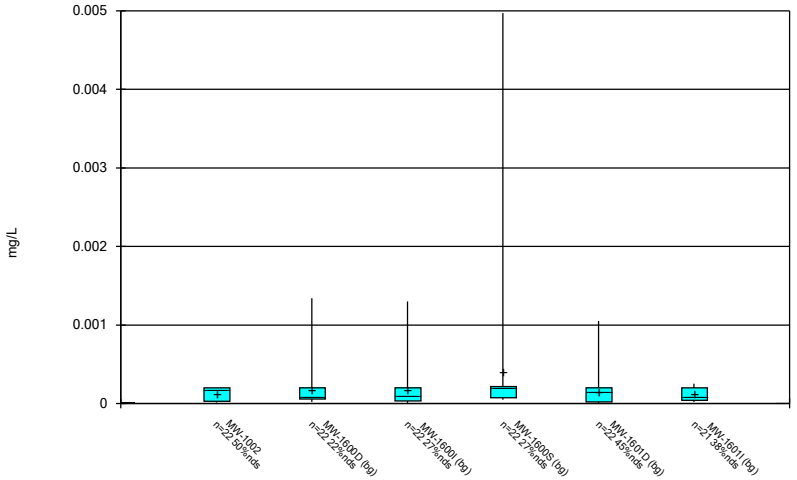
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

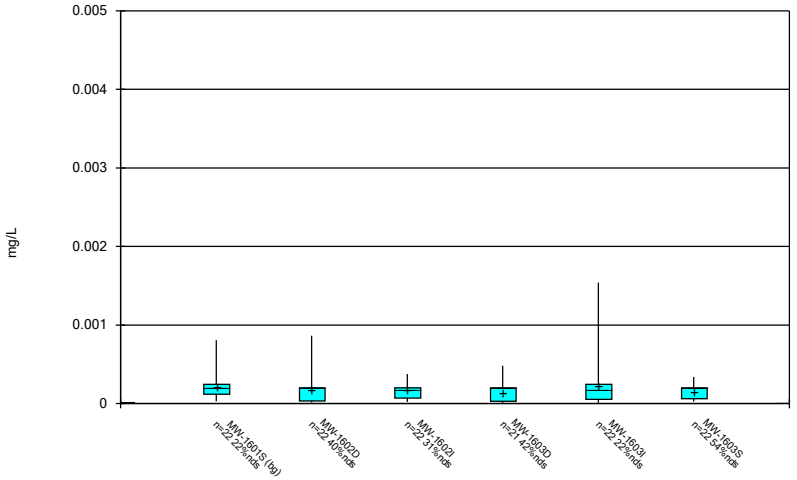
Box & Whiskers Plot



Constituent: Lead, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

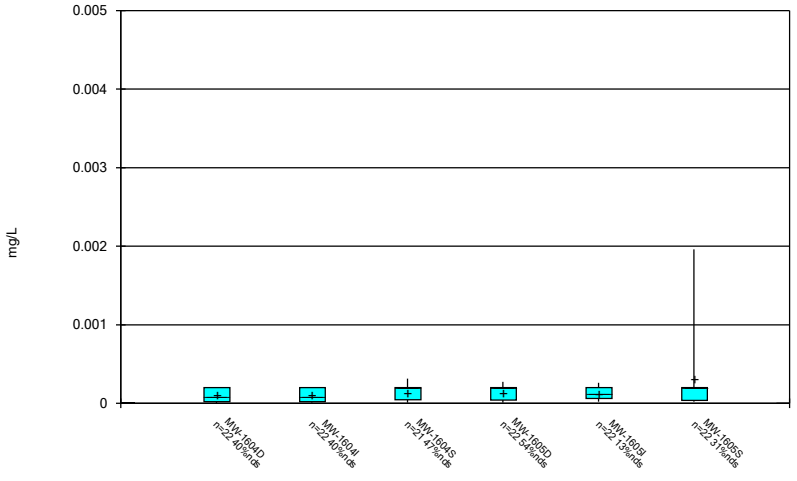
Box & Whiskers Plot



Constituent: Lead, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

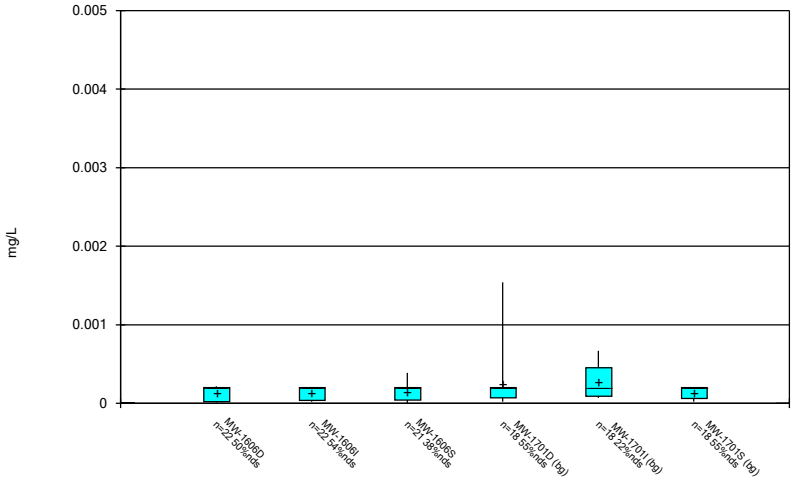
Box & Whiskers Plot



Constituent: Lead, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

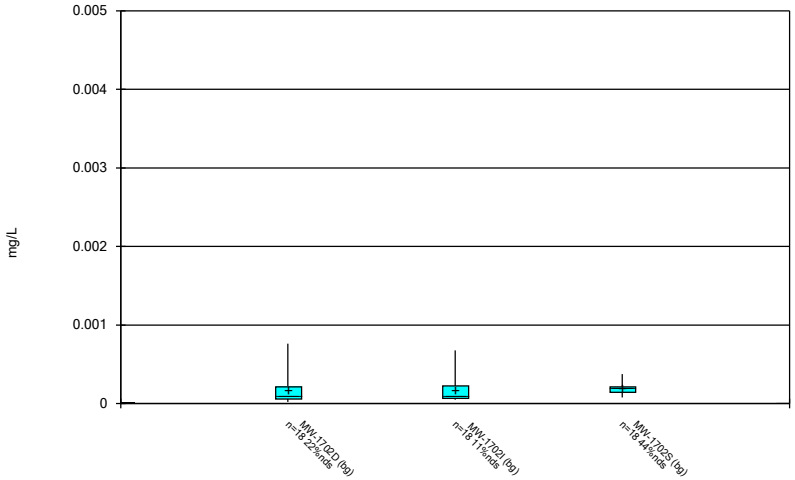
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lead, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

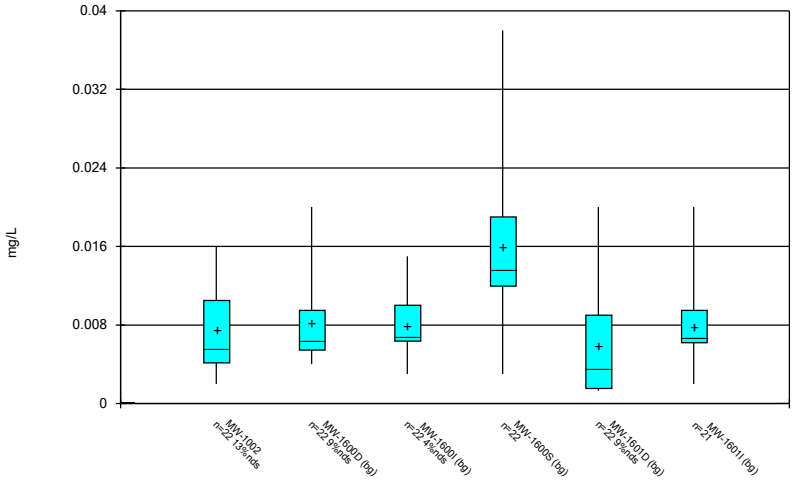
Box & Whiskers Plot



Constituent: Lead, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

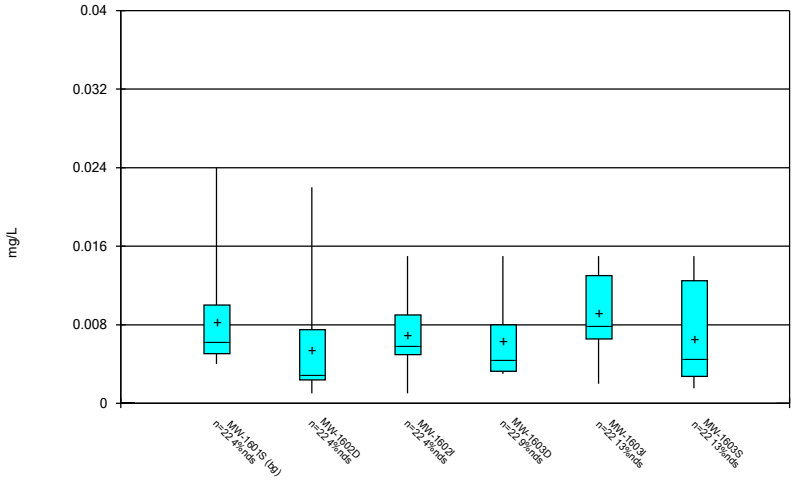
Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

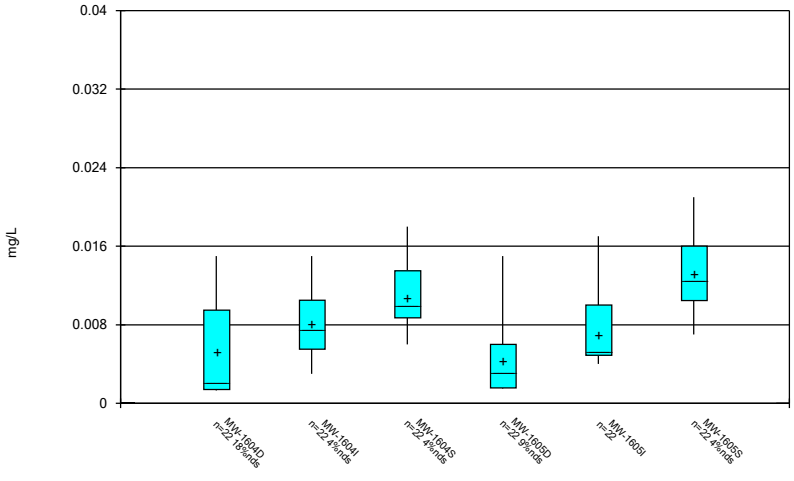
Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

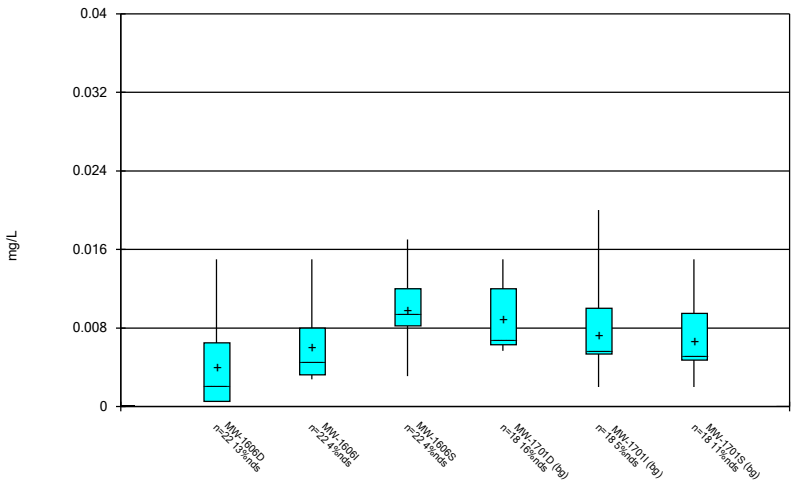
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

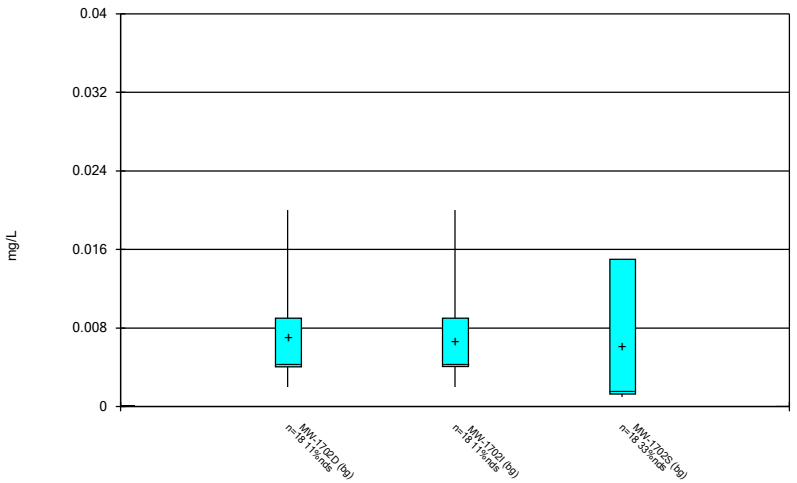
Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

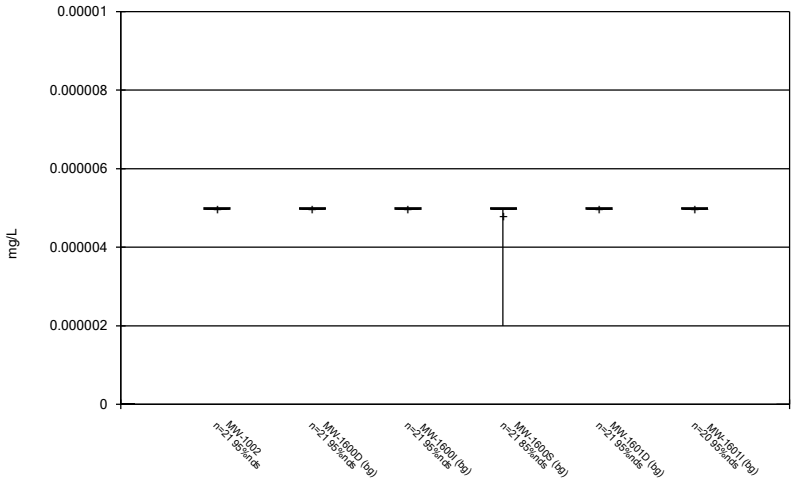
Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

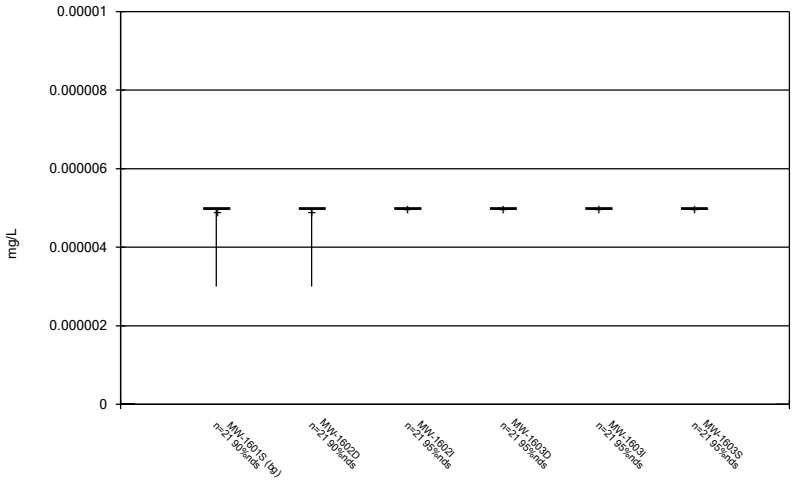
Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

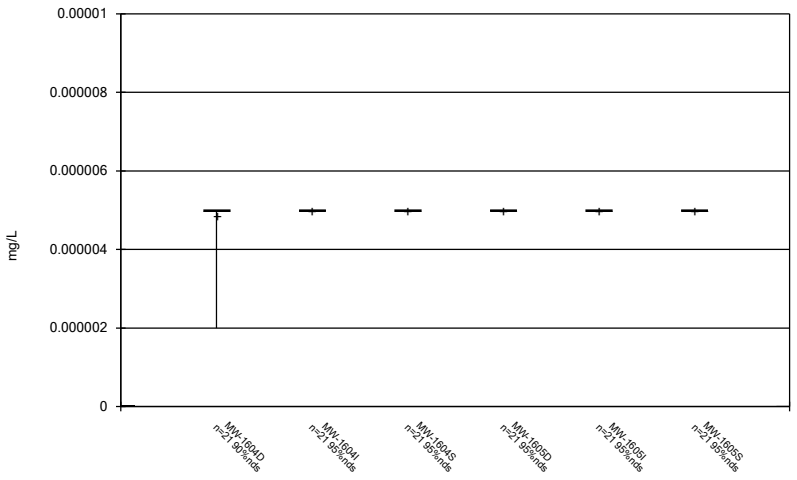
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 1/2/2023 3:06 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

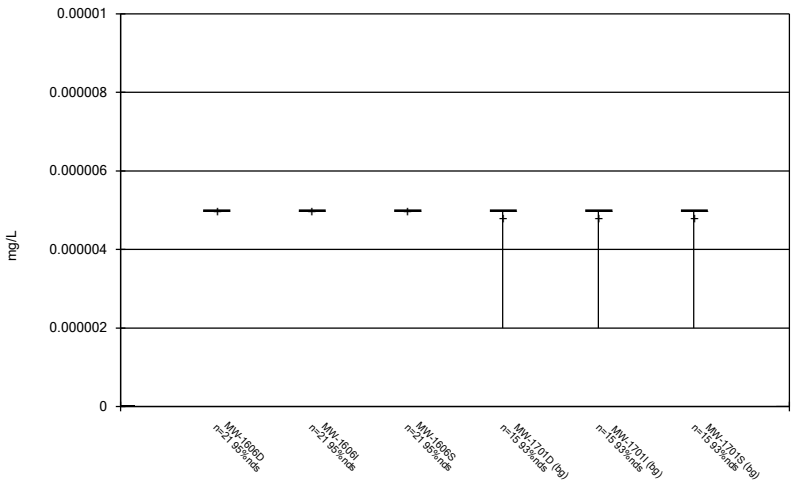
Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

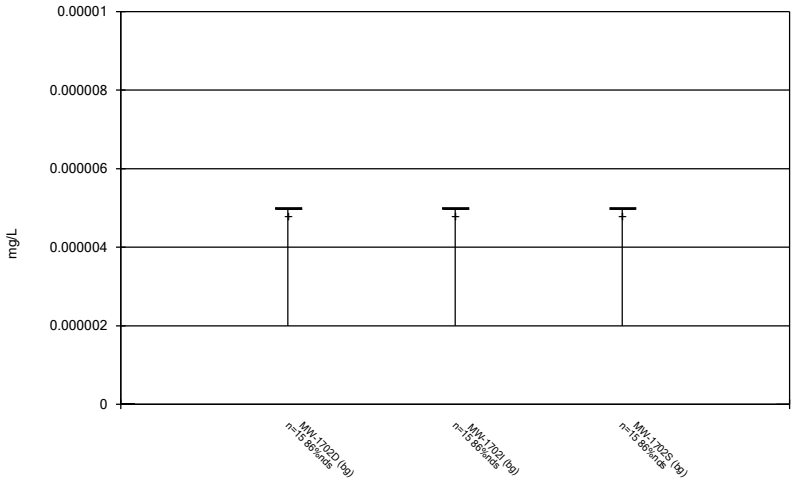
Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

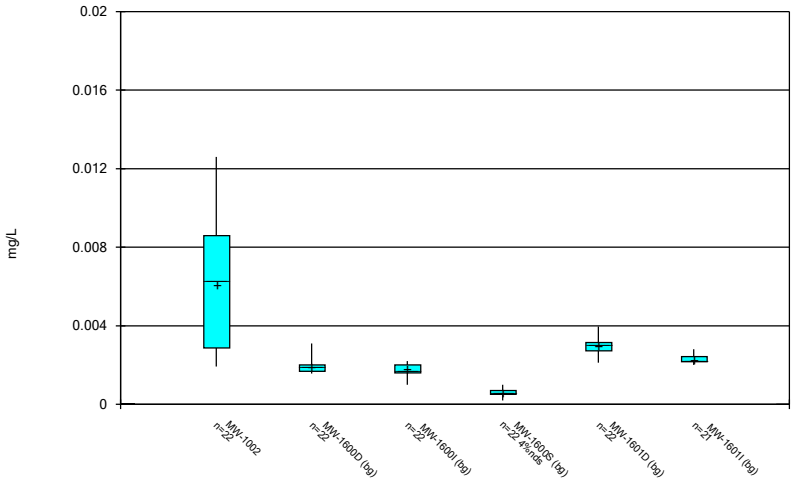
Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

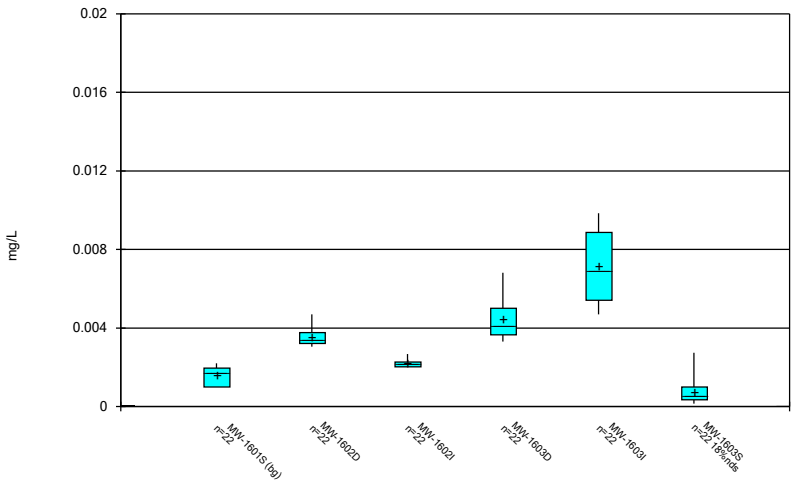
Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

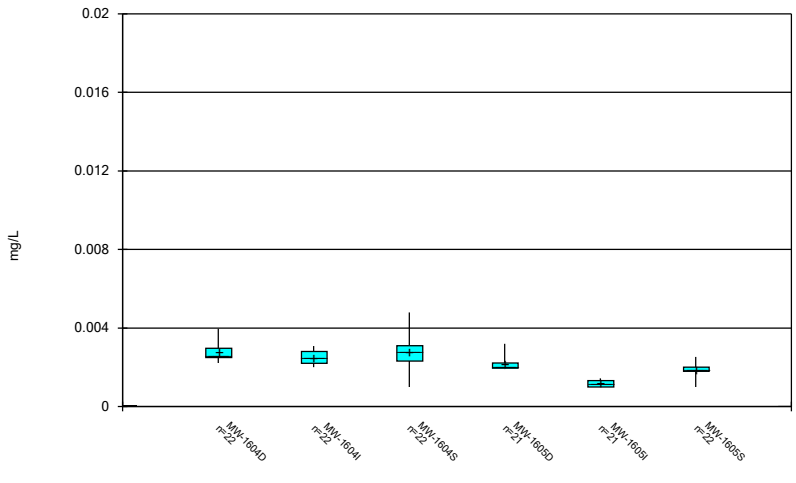
Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

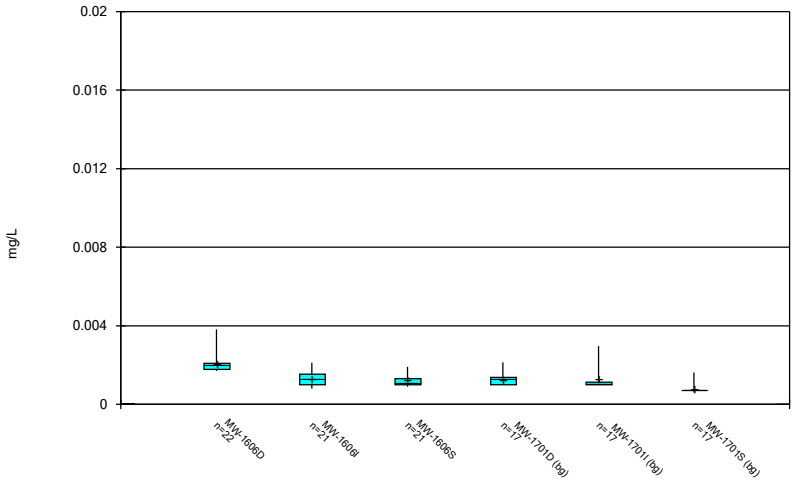
Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

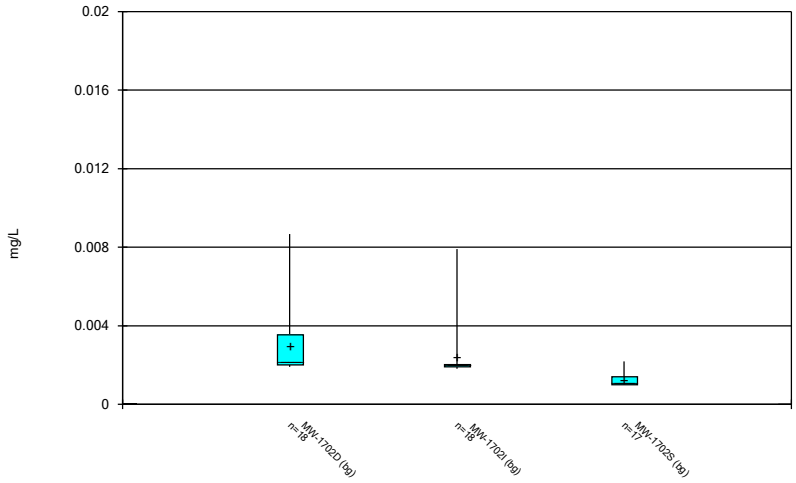
Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

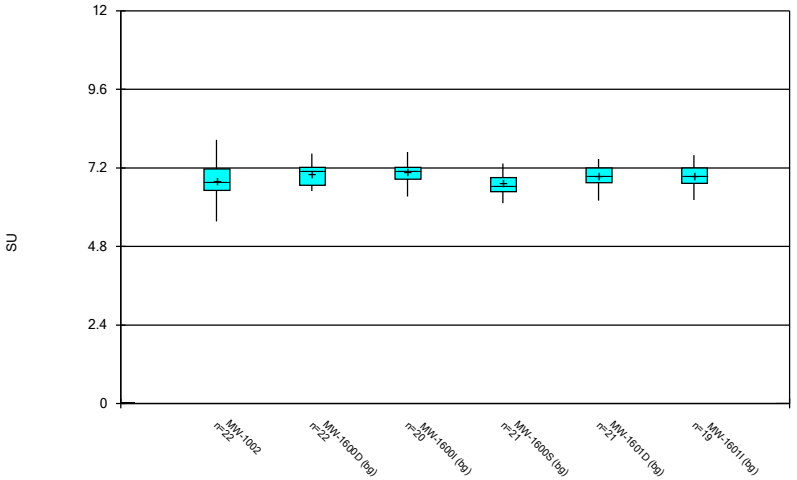
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

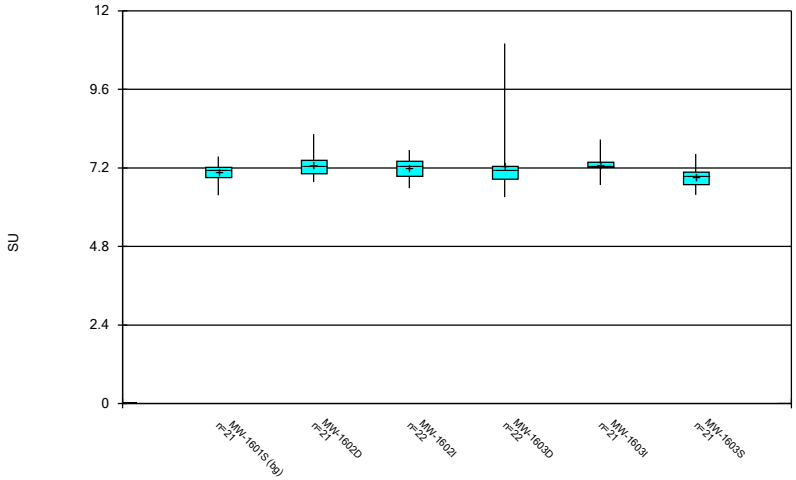
Box & Whiskers Plot



Constituent: pH, field Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

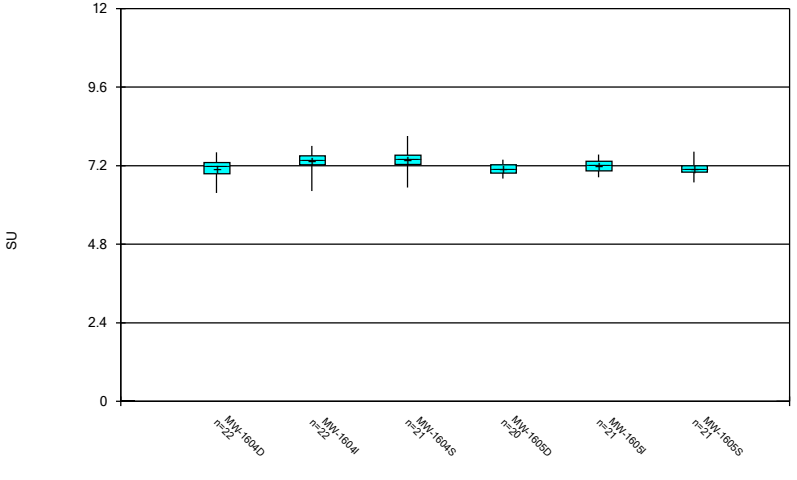
Box & Whiskers Plot



Constituent: pH, field Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

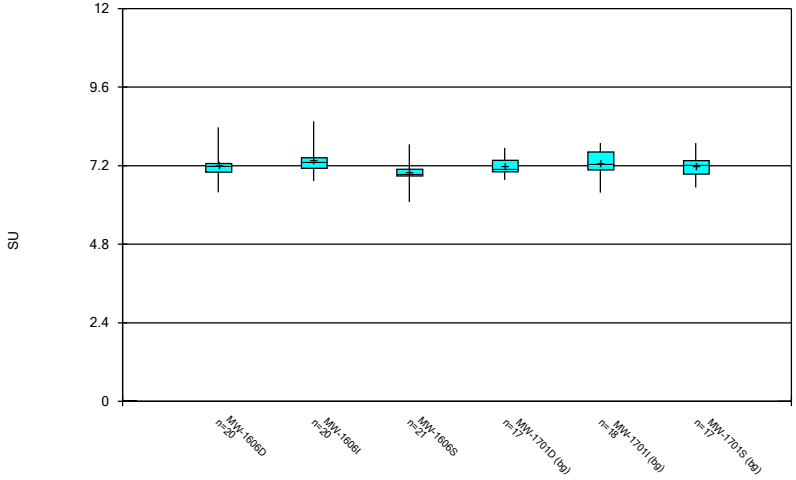
Box & Whiskers Plot



Constituent: pH, field Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

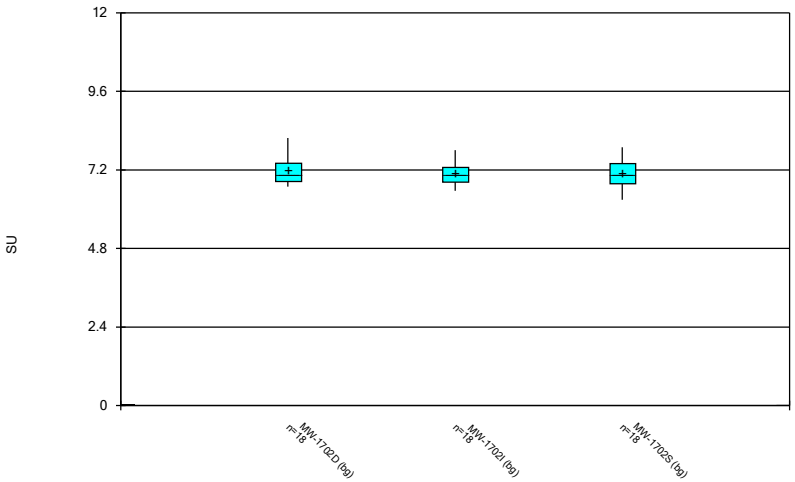
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



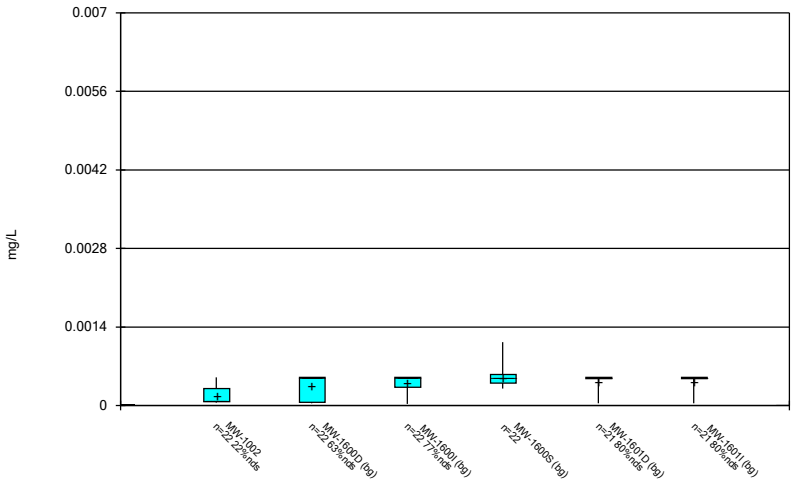
Constituent: pH, field Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



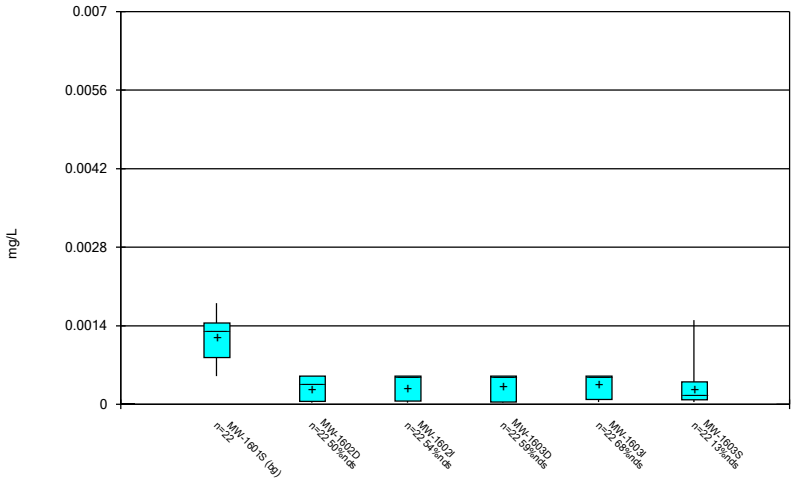
Constituent: pH, field Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



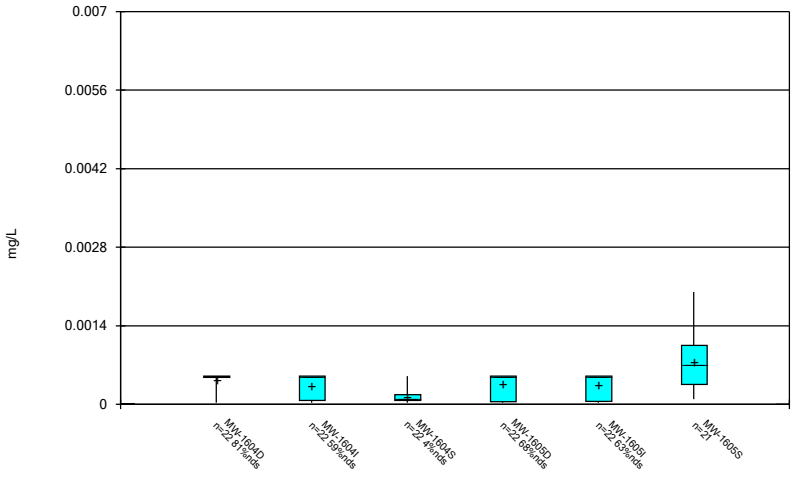
Constituent: Selenium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



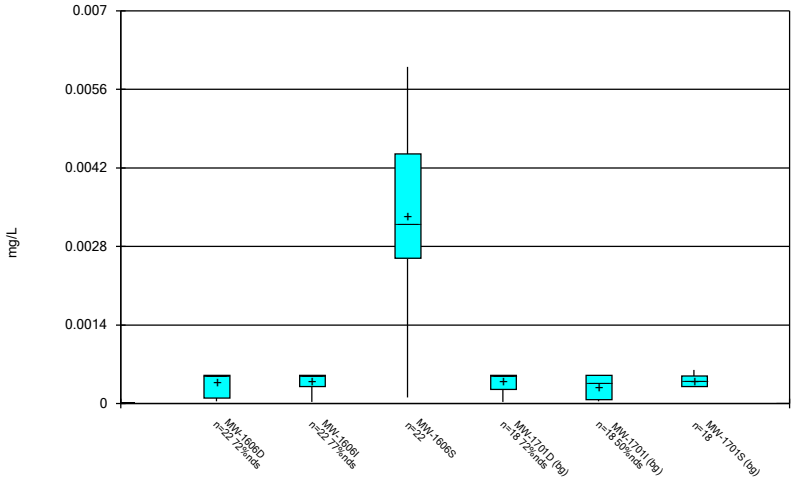
Constituent: Selenium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



Constituent: Selenium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

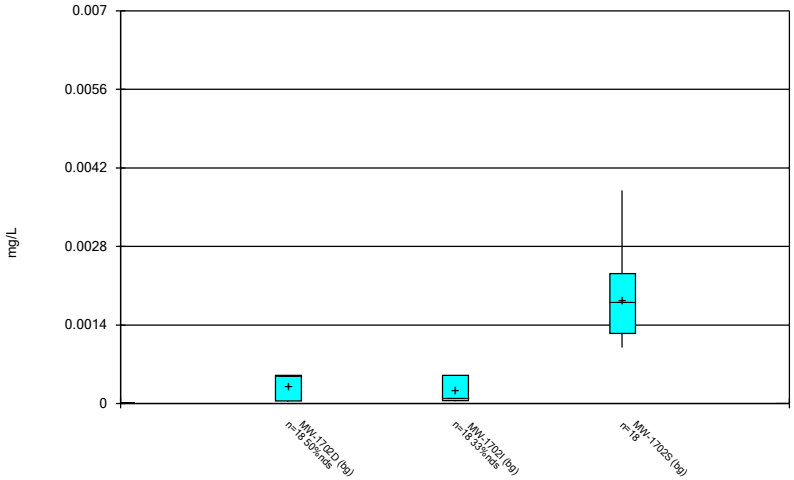
Box & Whiskers Plot



Constituent: Selenium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

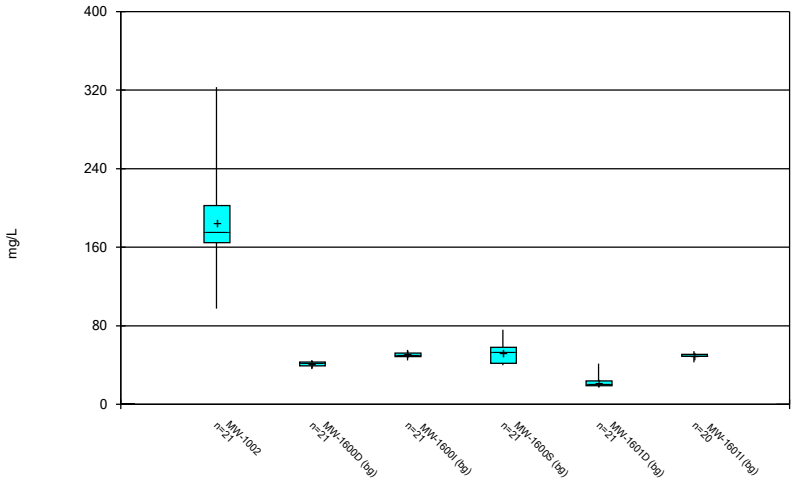
Box & Whiskers Plot



Constituent: Selenium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

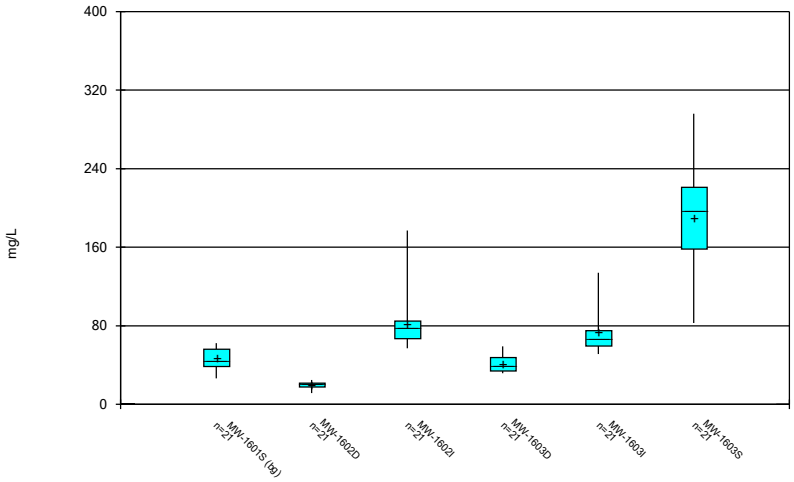
Box & Whiskers Plot



Constituent: Sulfate, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

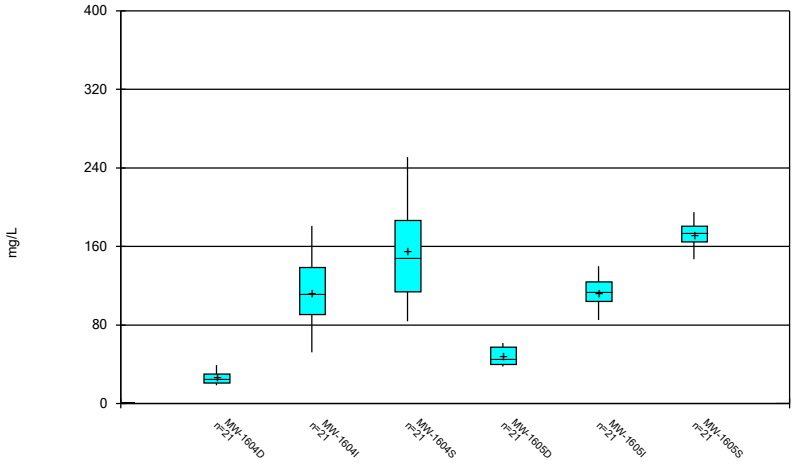
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Sulfate, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

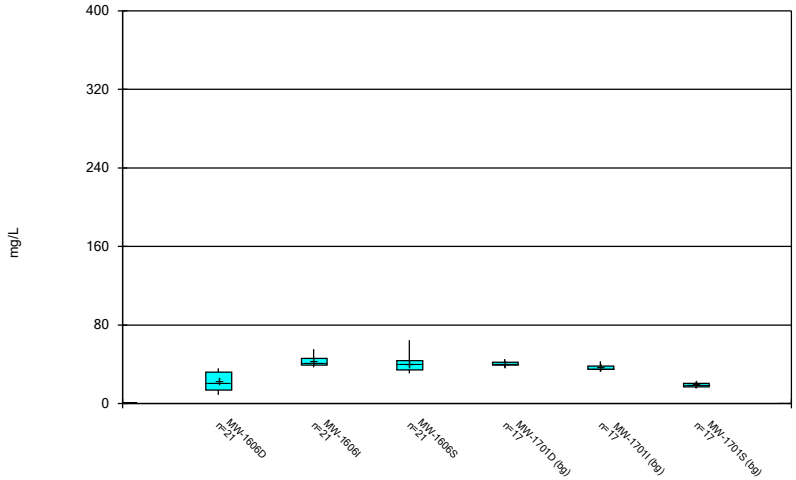
Box & Whiskers Plot



Constituent: Sulfate, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

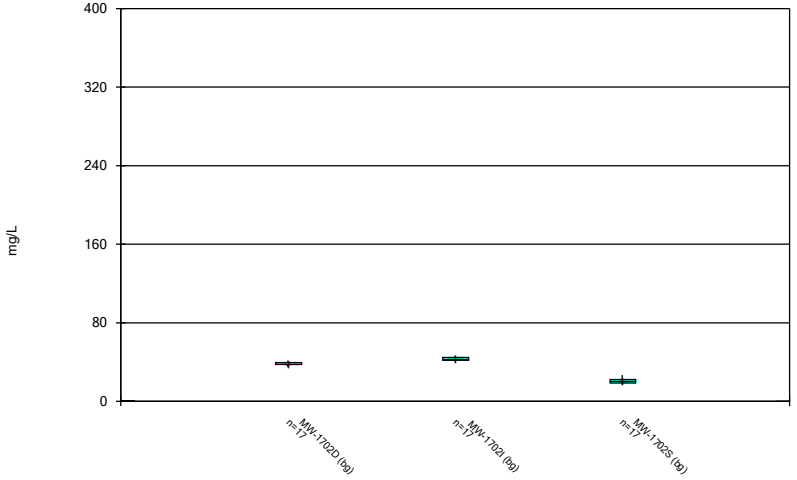
Box & Whiskers Plot



Constituent: Sulfate, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

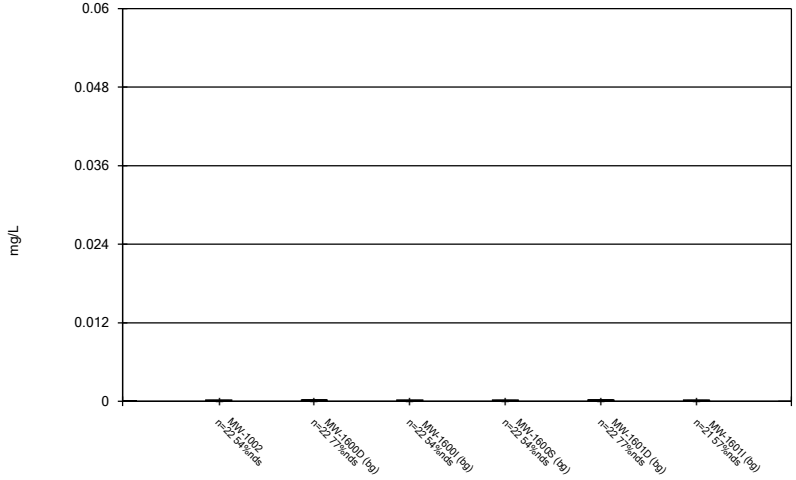
Box & Whiskers Plot



Constituent: Sulfate, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

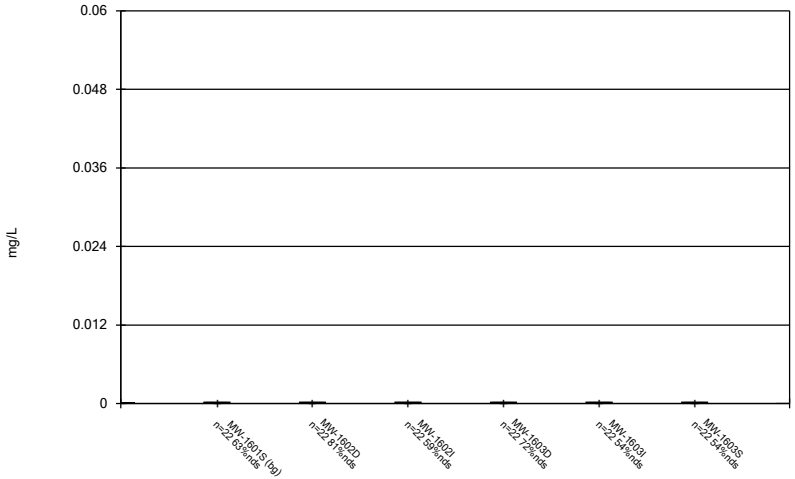
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

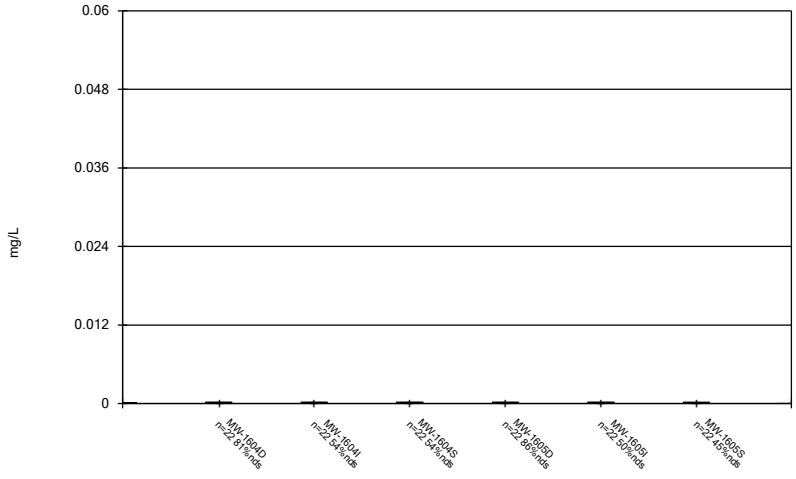
Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

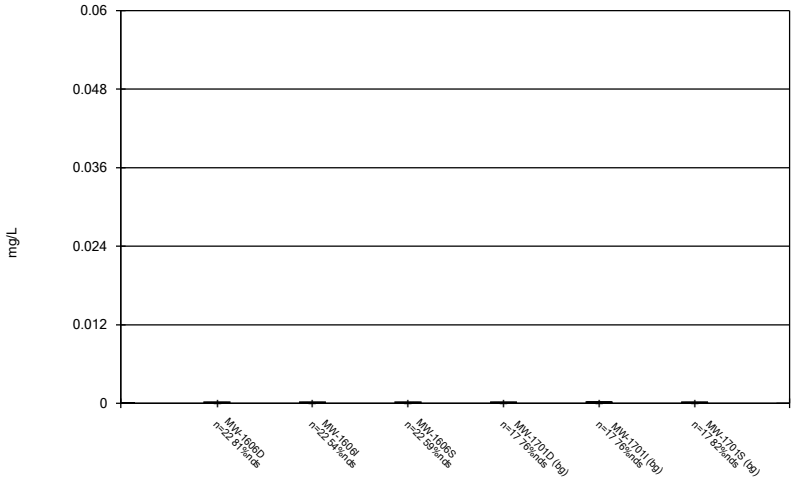
Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

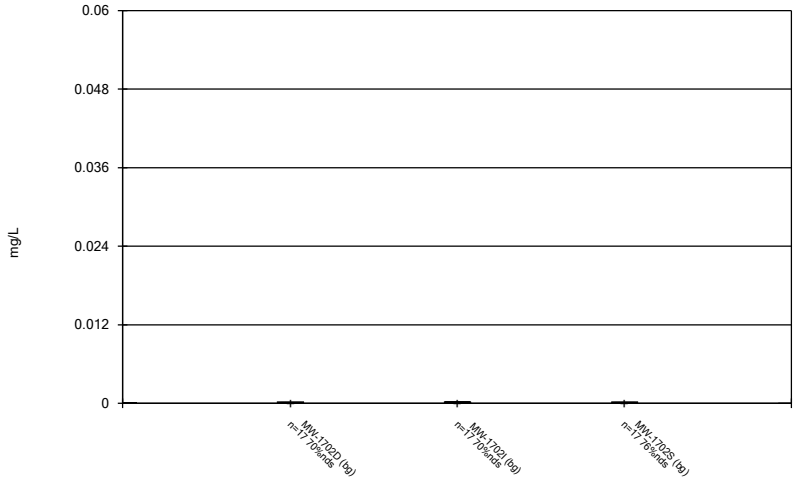
Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

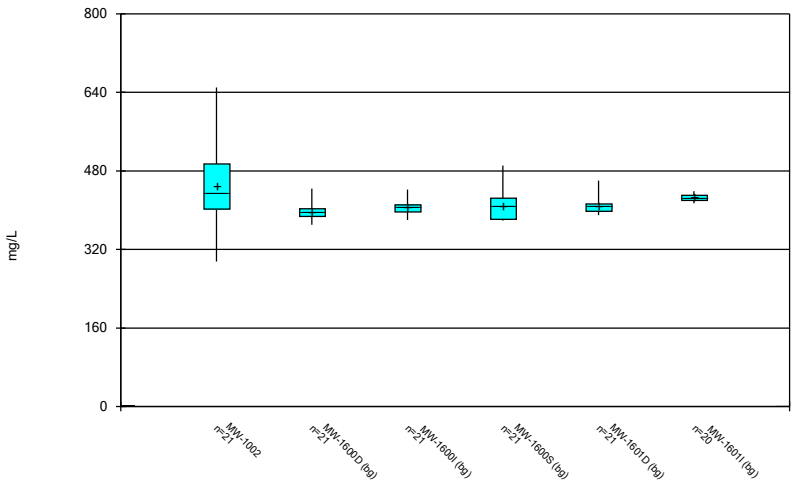
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

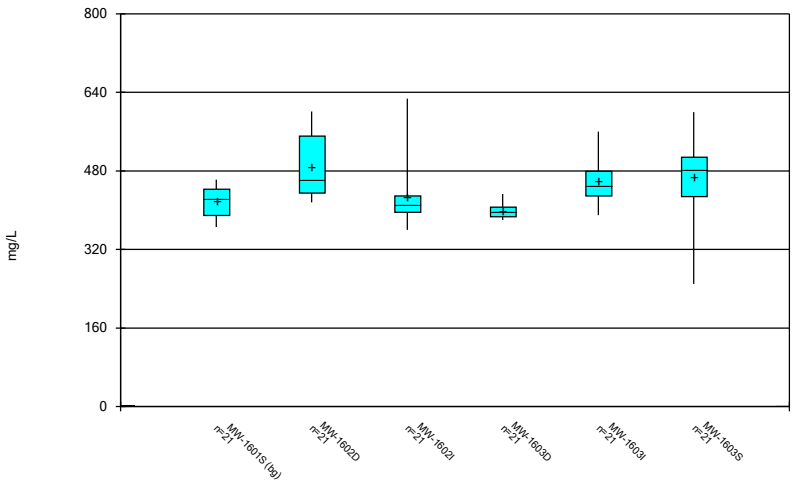
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

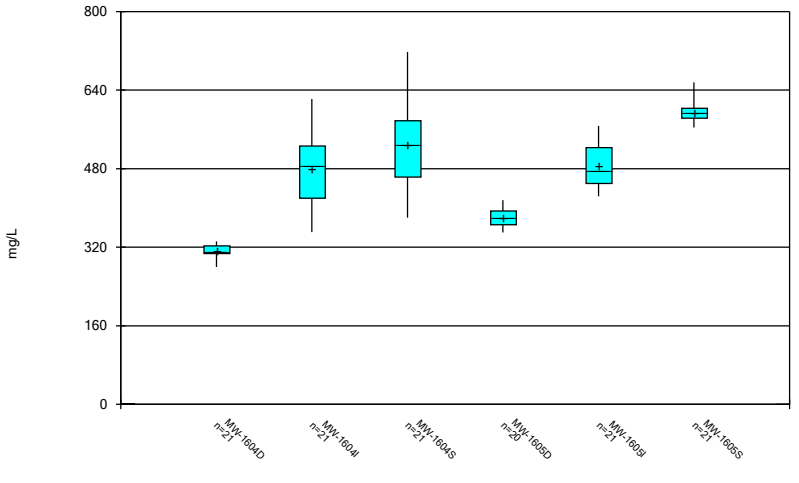
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

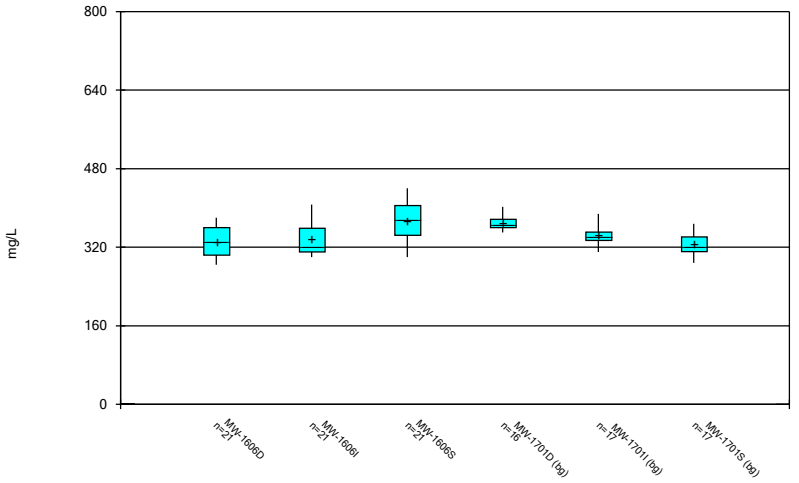
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

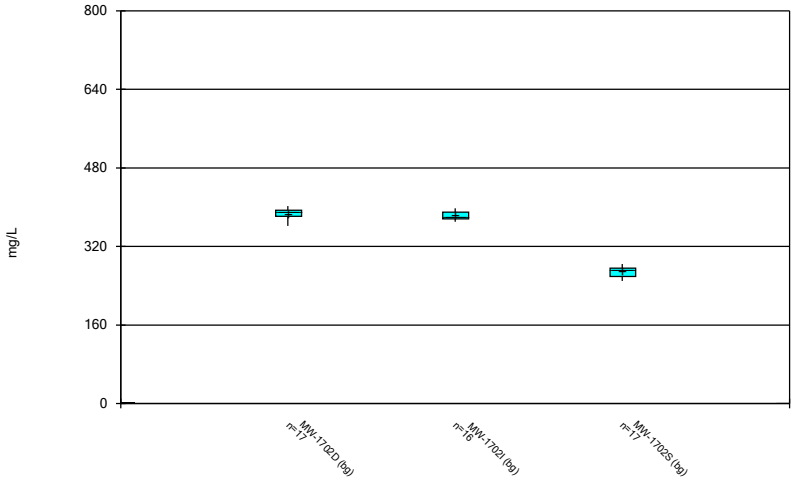
Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/2/2023 3:07 PM View: Time Series & Box Plot
Rockport BAP Client: Geosyntec Data: Rockport_BAP

FIGURE C

Outlier Summary and Tukey's Outlier Test

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 1/2/2023, 3:09 PM

	MW-1606S Boron, total (mg/L)	MW-1602I Calcium, total (mg/L)	MW-1603D Chromium, total (mg/L)	MW-1702S Chromium, total (mg/L)	MW-1600S Cobalt, total (mg/L)	MW-1606D Cobalt, total (mg/L)	MW-1600I Combined Radium 226 + 228 (pCi/L)	MW-1603D Lead, total (mg/L)	MW-1604S Lead, total (mg/L)	MW-1606S Lead, total (mg/L)
6/7/2016						0.000508 (o)				
6/8/2016							7.25 (o)			
7/19/2016										
7/20/2016									0.000911 (o)	
10/10/2016			0.0238 (o)					0.00138 (o)		
1/10/2017										
3/7/2017										0.00133 (o)
7/17/2017										
7/18/2017										
12/12/2017				0.00413 (o)						
6/4/2018										
6/5/2018										
8/15/2018	0.563 (o)									
5/24/2019										
6/25/2019										
5/20/2020		113 (o)								
5/25/2021										
5/26/2021										
5/27/2021					0.00995 (o)					

	MW-1605D Molybdenum, total (mg/L)	MW-1605I Molybdenum, total (mg/L)	MW-1606I Molybdenum, total (mg/L)	MW-1606S Molybdenum, total (mg/L)	MW-1701D Molybdenum, total (mg/L)	MW-1701I Molybdenum, total (mg/L)	MW-1701S Molybdenum, total (mg/L)	MW-1702S Molybdenum, total (mg/L)	MW-1600I pH, field (SU)	MW-1600S pH, field (SU)
6/7/2016	0.00765 (o)									
6/8/2016										
7/19/2016										
7/20/2016										
10/10/2016										
1/10/2017										
3/7/2017										
7/17/2017									9.29 (o)	9.46 (o)
7/18/2017										
12/12/2017										
6/4/2018										
6/5/2018										
8/15/2018										
5/24/2019										
6/25/2019		<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)		
5/20/2020										
5/25/2021										
5/26/2021										
5/27/2021										

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 1/2/2023, 3:09 PM

	MW-1601D pH, field (SU)	MW-1601I pH, field (SU)	MW-1601S pH, field (SU)	MW-1602D pH, field (SU)	MW-1603I pH, field (SU)	MW-1603S pH, field (SU)	MW-1604S pH, field (SU)	MW-1605D pH, field (SU)	MW-1605I pH, field (SU)	MW-1605S pH, field (SU)
6/7/2016				5.12 (o)						
6/8/2016										
7/19/2016										
7/20/2016										
10/10/2016										
1/10/2017										
3/7/2017										
7/17/2017		9.45 (o)			9.78 (o)	9.63 (o)				
7/18/2017								9.51 (o)		
12/12/2017										
6/4/2018										
6/5/2018										
8/15/2018										
5/24/2019										
6/25/2019										
5/20/2020										
5/25/2021							9.09 (o)	8.92 (o)		
5/26/2021	9.39 (o)	9.38 (o)	9.41 (o)						9.48 (o)	9.51 (o)
5/27/2021										

	MW-1606D pH, field (SU)	MW-1606I pH, field (SU)	MW-1606S pH, field (SU)	MW-1701D pH, field (SU)	MW-1601D Selenium, total (mg/L)	MW-1605S Selenium, total (mg/L)	MW-1701D Thallium, total (mg/L)	MW-1701I Thallium, total (mg/L)	MW-1701S Thallium, total (mg/L)	MW-1702D Thallium, total (mg/L)
6/7/2016										
6/8/2016										
7/19/2016	5.85 (o)	4.98 (o)								
7/20/2016										
10/10/2016										
1/10/2017										
3/7/2017										
7/17/2017										
7/18/2017										
12/12/2017							0.051 (o)	0.04 (o)	0.02 (o)	0.03 (o)
6/4/2018										
6/5/2018										
8/15/2018						0.0054 (o)				
5/24/2019					3E-05 (Jo)					
6/25/2019										
5/20/2020										
5/25/2021	8.88 (o)	8.91 (o)	8.55 (o)							
5/26/2021				9.3 (o)						
5/27/2021										

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 1/2/2023, 3:09 PM

	MW-1702I Thallium, total (mg/L)	MW-1702S Thallium, total (mg/L)	MW-1605D Total Dissolved Solids [TDS] (mg/L)	MW-1701D Total Dissolved Solids [TDS] (mg/L)	MW-1702I Total Dissolved Solids [TDS] (mg/L)
6/7/2016					
6/8/2016					
7/19/2016					
7/20/2016					
10/10/2016					
1/10/2017			794 (o)		
3/7/2017					
7/17/2017					
7/18/2017					
12/12/2017	0.04 (o)	0.01 (o)			
6/4/2018					760 (o)
6/5/2018				700 (o)	
8/15/2018					
5/24/2019					
6/25/2019					
5/20/2020					
5/25/2021					
5/26/2021					
5/27/2021					

FIGURE D

Intrawell PL

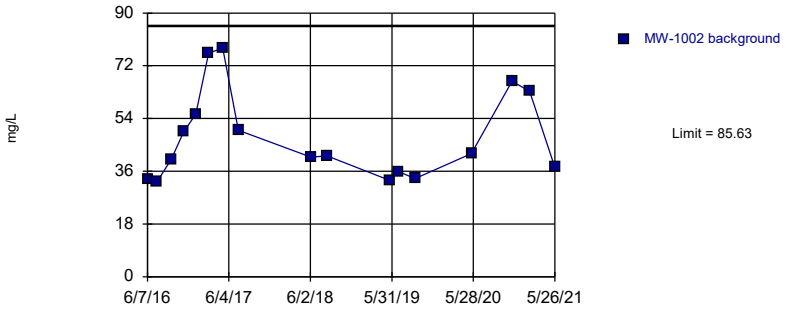
Intrawell Prediction Limit - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 1/6/2023, 4:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Calcium, total (mg/L)	MW-1002	85.63	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1600D	98.03	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1600I	84.68	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1600S	74.09	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1601D	95.56	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1601I	97.79	n/a	n/a	1 future	n/a	16	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1601S	87.95	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1602D	82.88	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1602I	90.9	n/a	n/a	1 future	n/a	16	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1603D	97.2	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1603I	105.1	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1603S	84.98	n/a	n/a	1 future	n/a	9	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1604D	77.55	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1604I	89.2	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1604S	117.6	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1605D	96.97	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1605I	107.3	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1605S	91.37	n/a	n/a	1 future	n/a	17	0	None	x^2	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1606D	91.22	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1606I	91.93	n/a	n/a	1 future	n/a	17	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1606S	76.1	n/a	n/a	1 future	n/a	17	0	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Calcium, total (mg/L)	MW-1701D	79.25	n/a	n/a	1 future	n/a	13	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1701I	78.84	n/a	n/a	1 future	n/a	13	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1701S	73.12	n/a	n/a	1 future	n/a	13	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1702D	93.61	n/a	n/a	1 future	n/a	13	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1702I	86.72	n/a	n/a	1 future	n/a	13	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1702S	43	n/a	n/a	1 future	n/a	13	0	None	No	0.0005016	Param Intra 1 of 2
pH, field (SU)	MW-1002	8.02	5.563	n/a	1 future	n/a	18	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1600D	7.909	6.275	n/a	1 future	n/a	18	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1600I	7.813	6.444	n/a	1 future	n/a	16	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1600S	7.577	5.946	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1601D	7.845	6.154	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1601I	7.884	6.172	n/a	1 future	n/a	15	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1601S	7.822	6.344	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1602D	8.234	6.332	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1602I	7.908	6.564	n/a	1 future	n/a	18	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1603D	7.926	6.293	n/a	1 future	n/a	18	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1603I	8.096	6.61	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1603S	7.731	6.175	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1604D	7.808	6.429	n/a	1 future	n/a	18	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1604I	8.07	6.583	n/a	1 future	n/a	18	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1604S	8.181	6.619	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1605D	7.477	6.666	n/a	1 future	n/a	16	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1605I	7.604	6.73	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1605S	7.62	6.603	n/a	1 future	n/a	17	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1606D	8.37	6.88	n/a	1 future	n/a	16	0	n/a	n/a	0.01291	NP Intra (normality) 1 of 2
pH, field (SU)	MW-1606I	8.473	6.297	n/a	1 future	n/a	16	0	None	sqrt(x)	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1606S	7.85	6.68	n/a	1 future	n/a	17	0	n/a	n/a	0.01183	NP Intra (normality) 1 of 2
pH, field (SU)	MW-1701D	7.937	6.576	n/a	1 future	n/a	13	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1701I	8.266	6.46	n/a	1 future	n/a	14	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1701S	8.211	6.291	n/a	1 future	n/a	13	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1702D	8.461	6.033	n/a	1 future	n/a	14	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1702I	8.206	6.092	n/a	1 future	n/a	14	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1702S	8.354	5.821	n/a	1 future	n/a	14	0	None	No	0.0002508	Param Intra 1 of 2

Prediction Limit

Intrawell Parametric, MW-1002



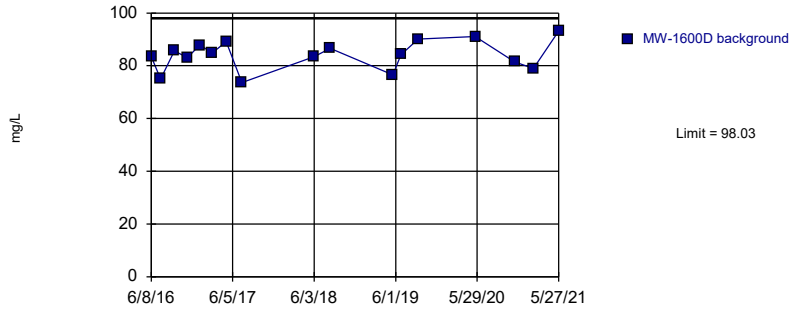
Background Data Summary: Mean=47.58, Std. Dev.=15.22, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8609, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:29 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1600D (bg)



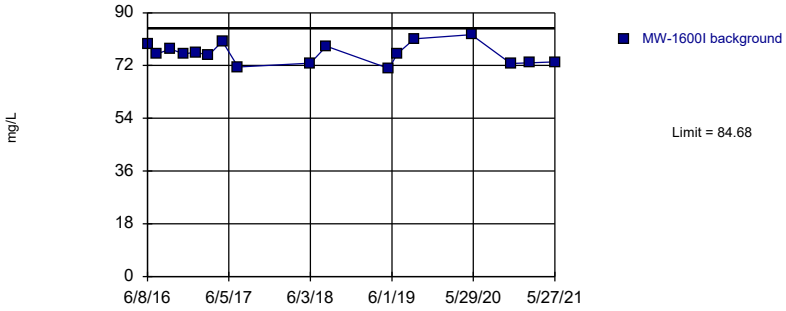
Background Data Summary: Mean=84.01, Std. Dev.=5.611, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9673, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:29 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1600I (bg)



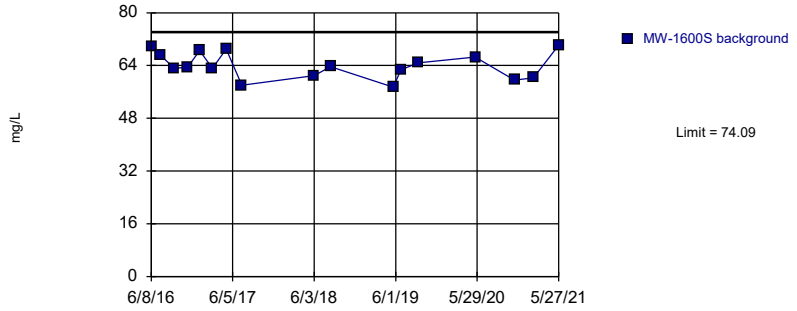
Background Data Summary: Mean=76.08, Std. Dev.=3.443, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9553, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:29 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1600S (bg)

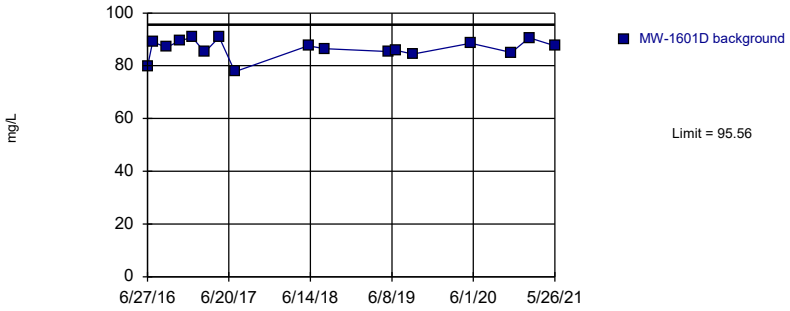


Background Data Summary: Mean=64.02, Std. Dev.=4.025, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.955, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:29 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1601D (bg)

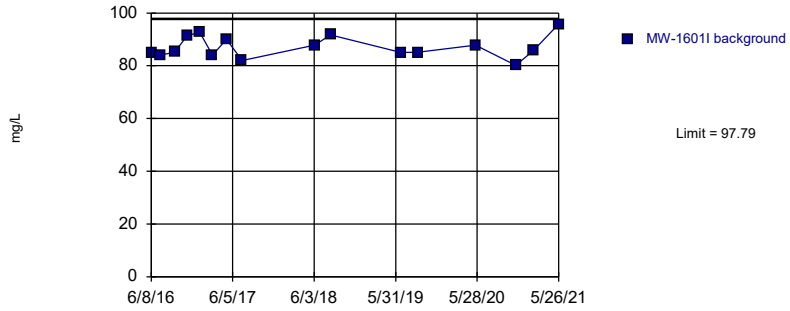


Background Data Summary: Mean=86.54, Std. Dev.=3.609, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8957, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:29 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1601I (bg)

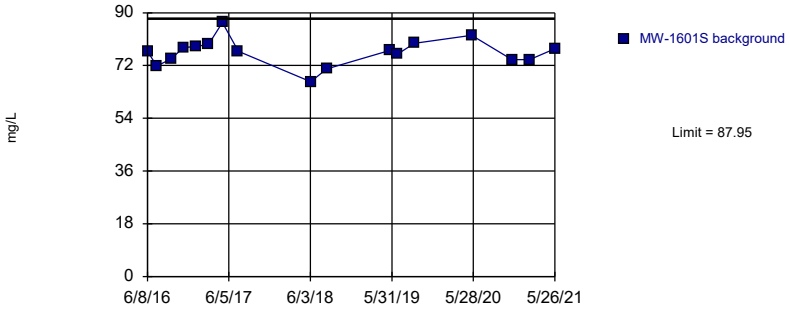


Background Data Summary: Mean=87.09, Std. Dev.=4.225, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9511, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:29 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1601S (bg)

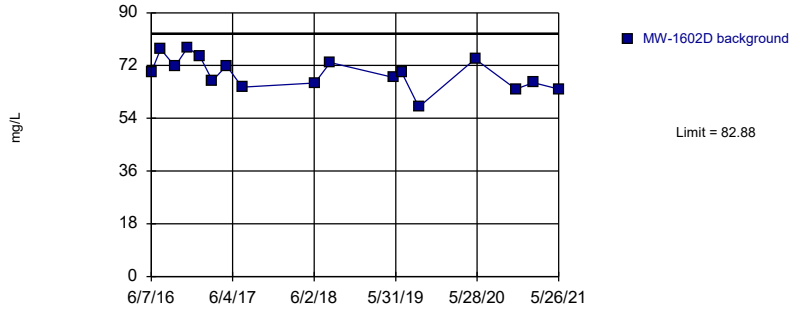


Background Data Summary: Mean=76.49, Std. Dev.=4.585, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9727, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:29 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1602D

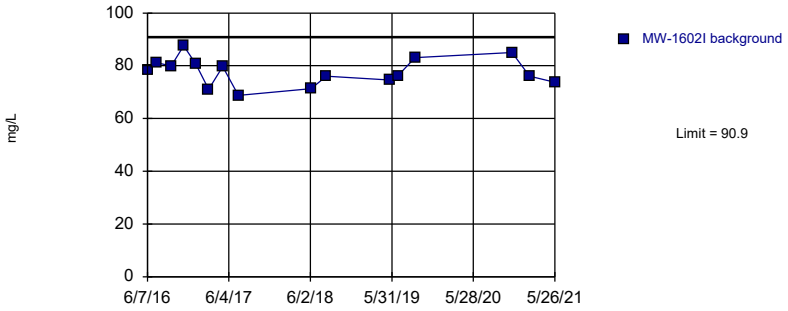


Background Data Summary: Mean=69.32, Std. Dev.=5.422, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9724, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1602I



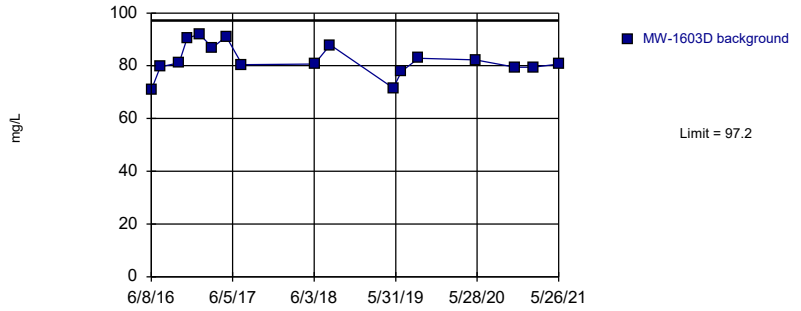
Background Data Summary: Mean=77.71, Std. Dev.=5.21, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9834, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1603D



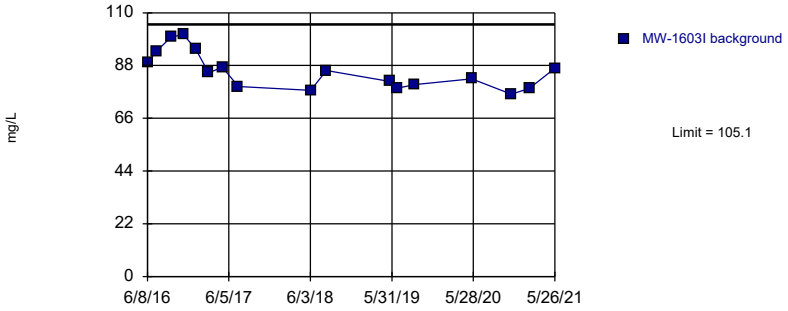
Background Data Summary: Mean=82.04, Std. Dev.=6.064, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9298, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1603I



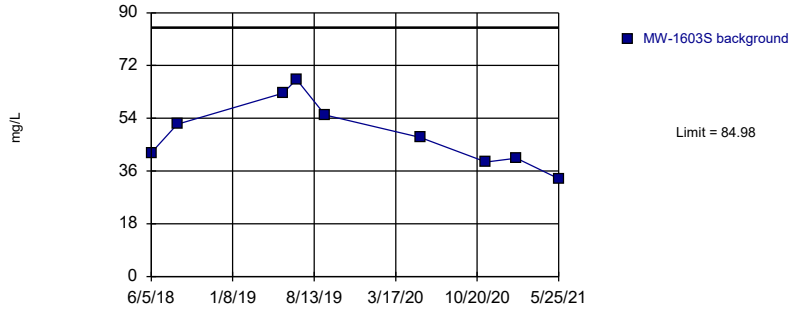
Background Data Summary: Mean=85.74, Std. Dev.=7.743, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9139, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1603S

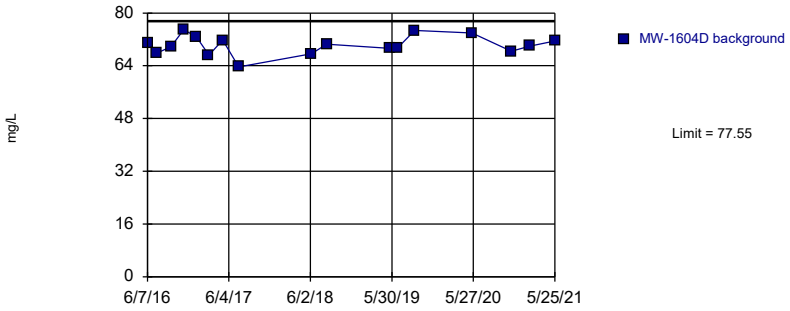


Background Data Summary: Mean=48.83, Std. Dev.=11.32, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.764. Kappa = 3.192 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1604D



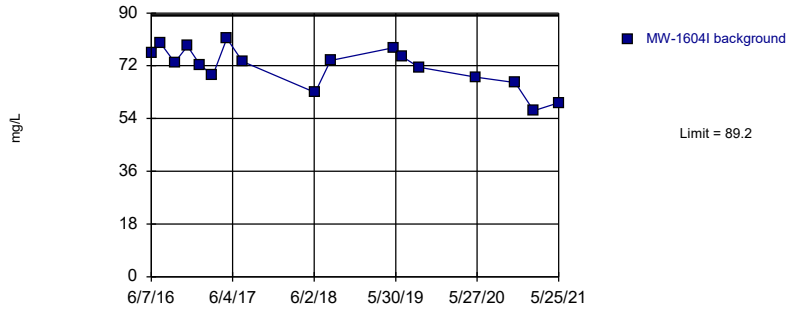
Background Data Summary: Mean=70.25, Std. Dev.=2.921, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9714, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1604I



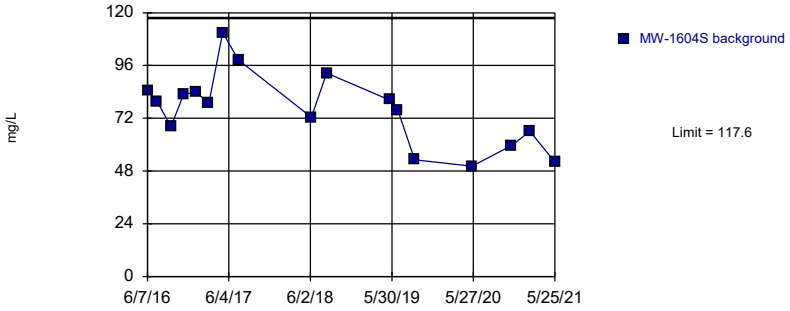
Background Data Summary: Mean=71.52, Std. Dev.=7.072, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9452, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1604S



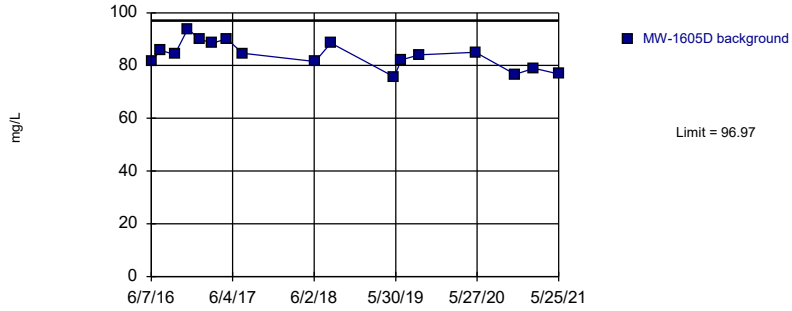
Background Data Summary: Mean=75.89, Std. Dev.=16.67, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9656, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1605D

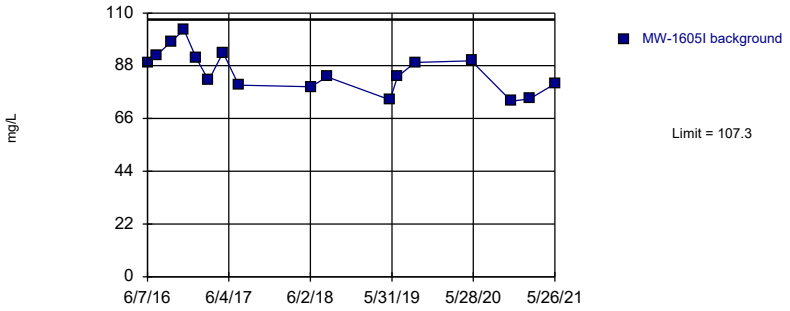


Background Data Summary: Mean=83.99, Std. Dev.=5.192, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9684, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1605I



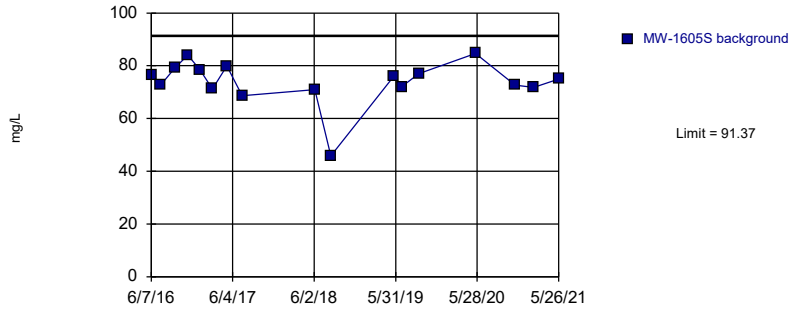
Background Data Summary: Mean=85.69, Std. Dev.=8.627, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1605S



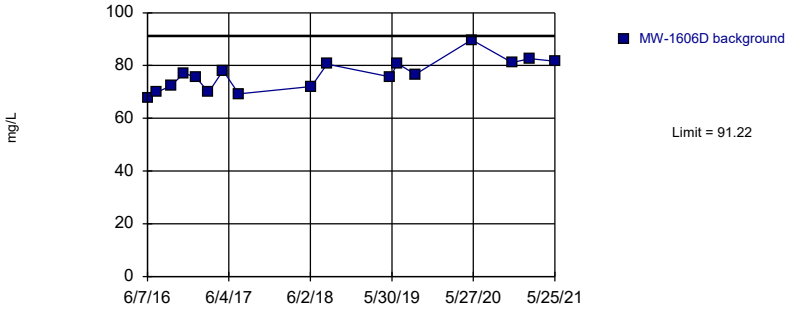
Background Data Summary (based on square transformation): Mean=5531, Std. Dev.=1127, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8535, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1606D



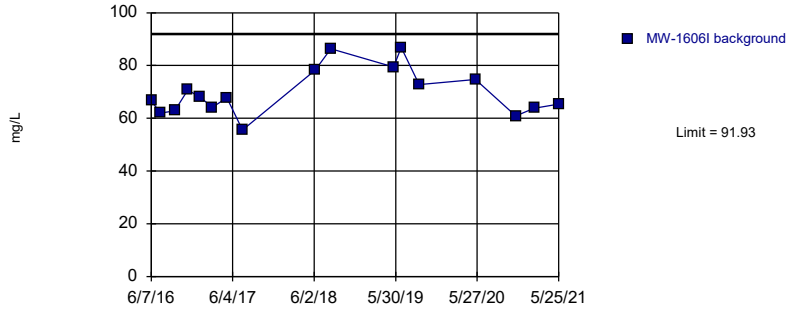
Background Data Summary: Mean=76.49, Std. Dev.=5.893, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.958, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1606I

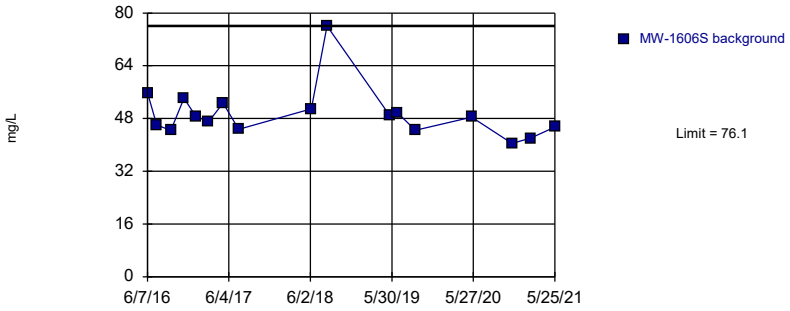


Background Data Summary: Mean=69.76, Std. Dev.=8.869, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9419, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Non-parametric, MW-1606S



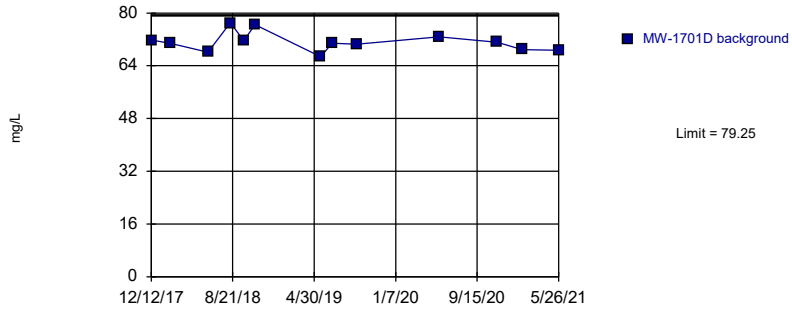
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2). Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1701D (bg)



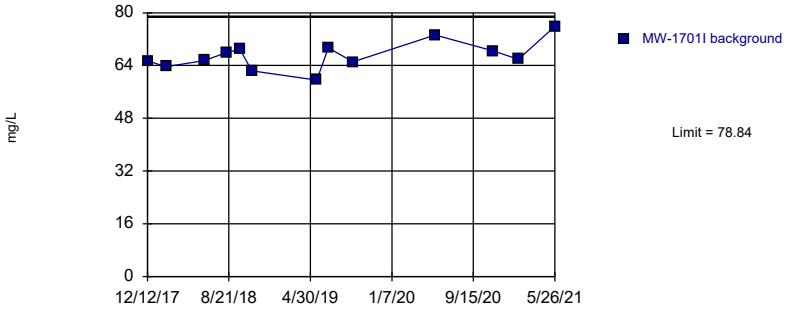
Background Data Summary: Mean=71.18, Std. Dev.=2.974, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9197, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1701I (bg)



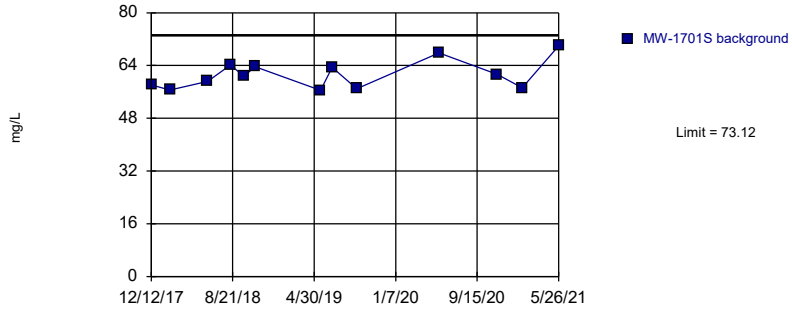
Background Data Summary: Mean=67.03, Std. Dev.=4.354, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9684, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1701S (bg)

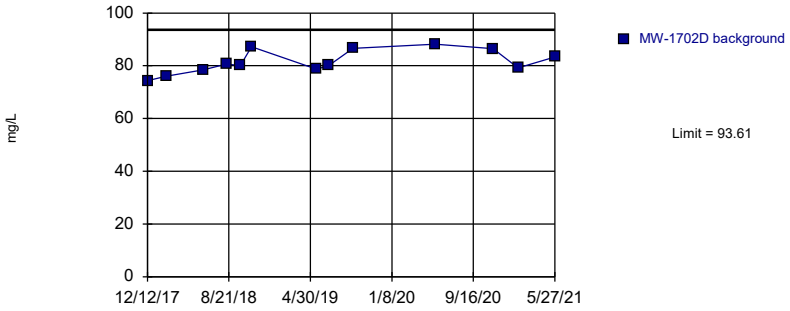


Background Data Summary: Mean=61.21, Std. Dev.=4.394, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9058, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1702D (bg)



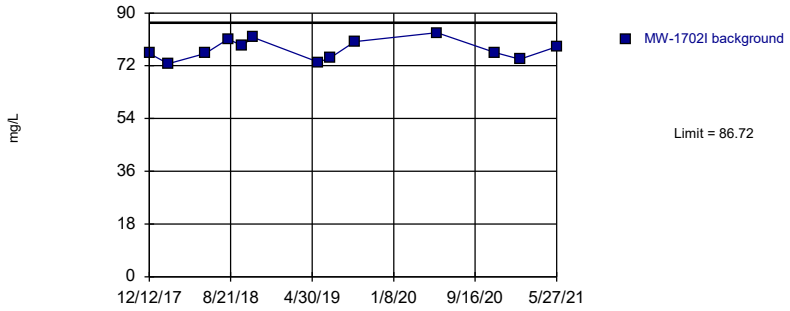
Background Data Summary: Mean=81.48, Std. Dev.=4.471, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9271, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1702I (bg)



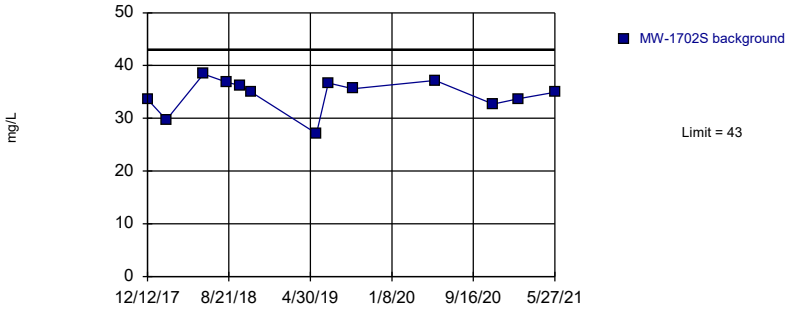
Background Data Summary: Mean=77.49, Std. Dev.=3.405, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1702S (bg)



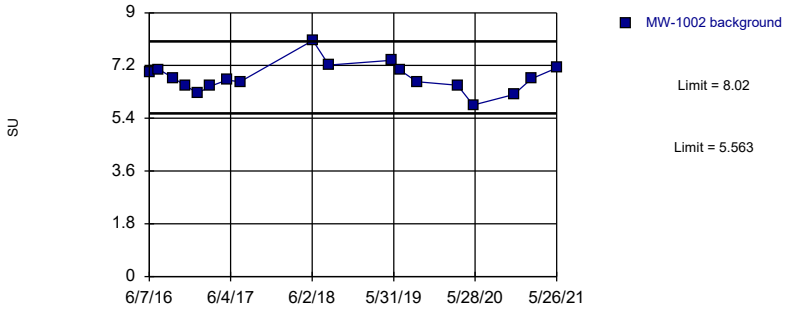
Background Data Summary: Mean=34.43, Std. Dev.=3.162, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9024, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1002

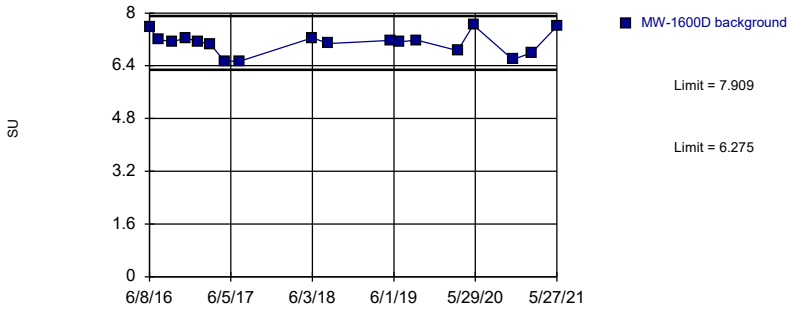


Background Data Summary: Mean=6.791, Std. Dev.=0.4977, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1600D (bg)



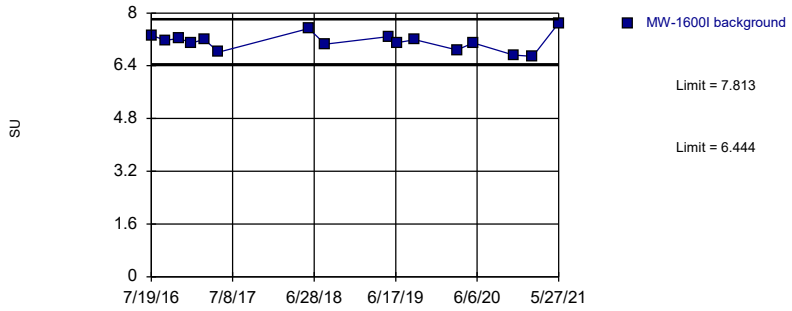
Background Data Summary: Mean=7.092, Std. Dev.=0.3309, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9263, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1600I (bg)



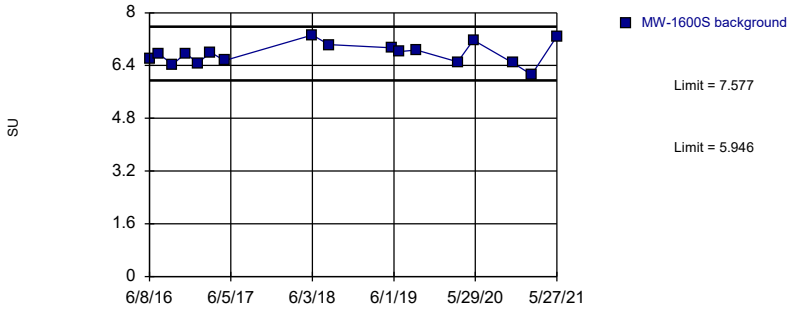
Background Data Summary: Mean=7.129, Std. Dev.=0.2704, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9622, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1600S (bg)



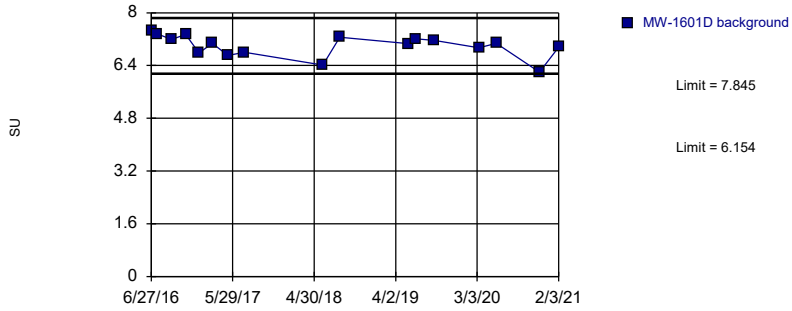
Background Data Summary: Mean=6.762, Std. Dev.=0.3263, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1601D (bg)

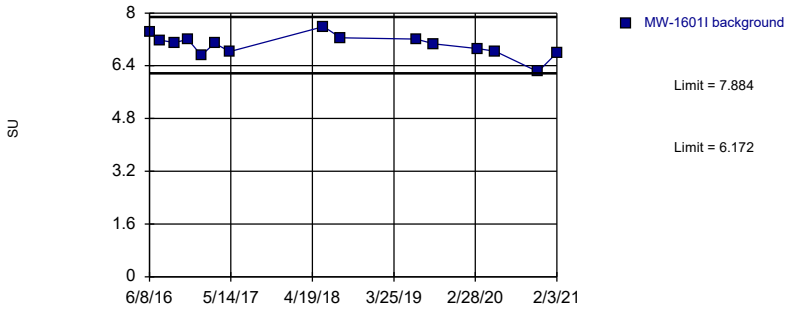


Background Data Summary: Mean=6.999, Std. Dev.=0.3383, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9334, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1601I (bg)



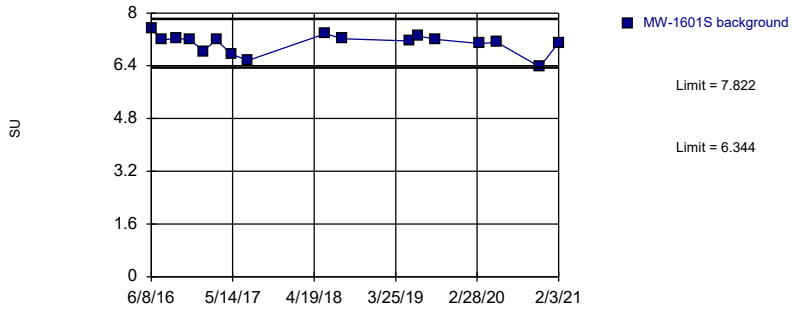
Background Data Summary: Mean=7.028, Std. Dev.=0.3302, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9534, critical = 0.835. Kappa = 2.591 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1601S (bg)



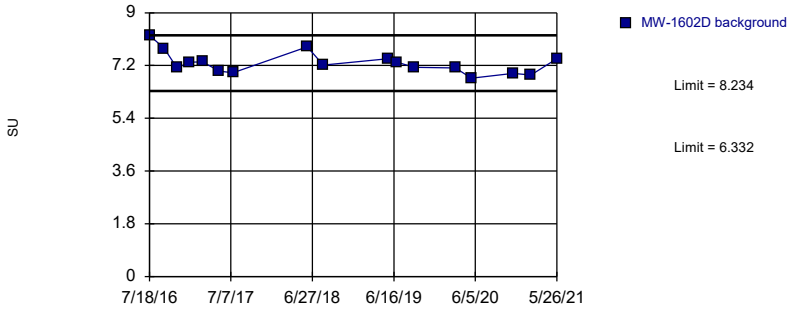
Background Data Summary: Mean=7.083, Std. Dev.=0.2958, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8836, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1602D



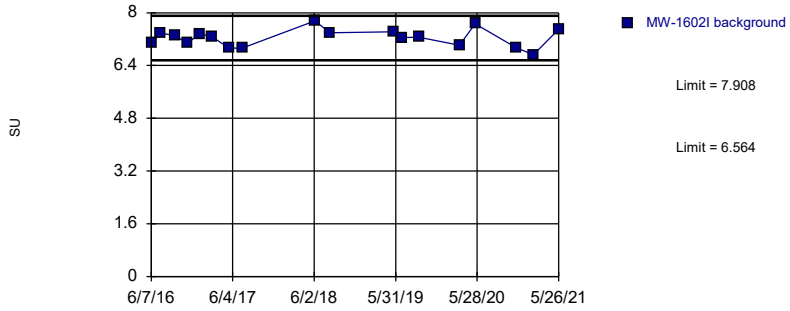
Background Data Summary: Mean=7.283, Std. Dev.=0.3804, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9193, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1602I

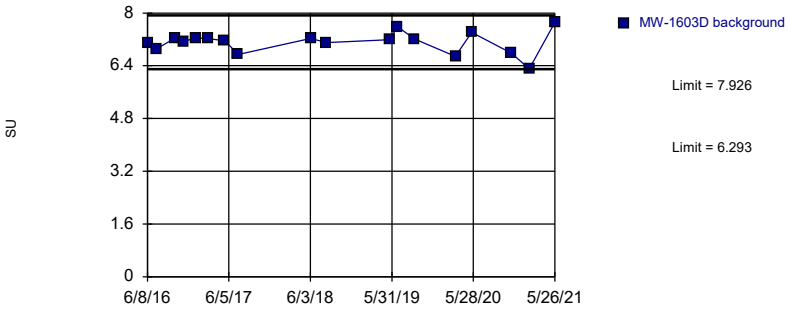


Background Data Summary: Mean=7.236, Std. Dev.=0.2723, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.974, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1603D



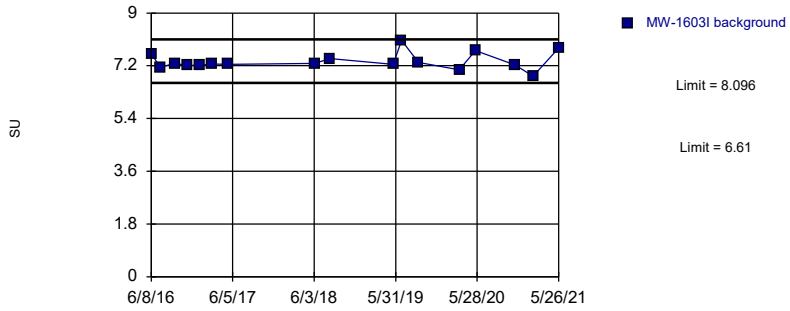
Background Data Summary: Mean=7.109, Std. Dev.=0.3306, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1603I



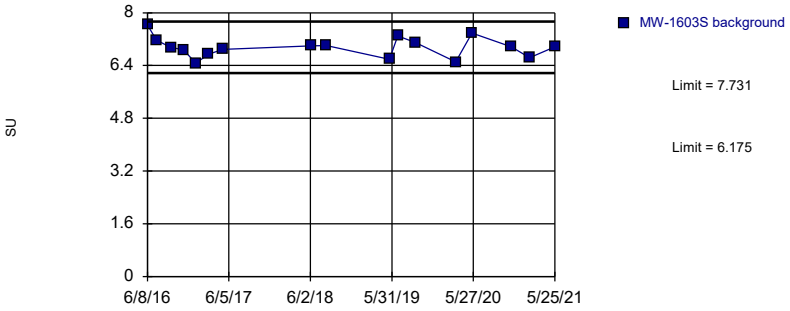
Background Data Summary: Mean=7.353, Std. Dev.=0.2973, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8941, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1603S



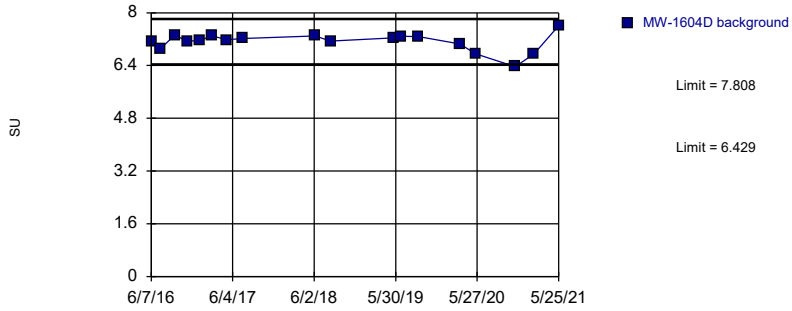
Background Data Summary: Mean=6.953, Std. Dev.=0.3112, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9679, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1604D

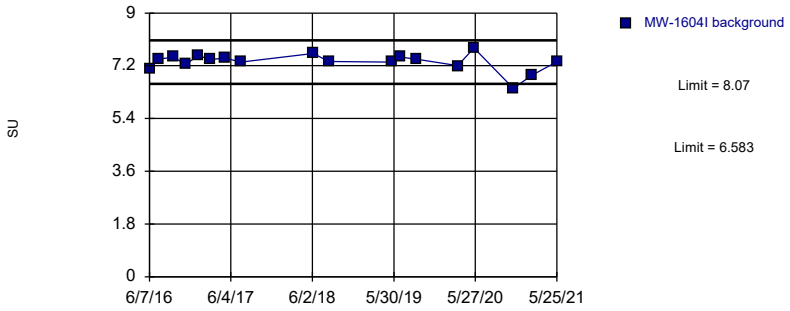


Background Data Summary: Mean=7.118, Std. Dev.=0.2794, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8916, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1604I



Background Data Summary: Mean=7.327, Std. Dev.=0.3013, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8642, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

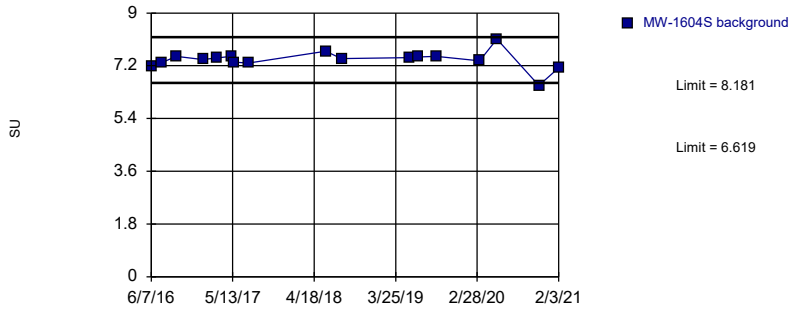
Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1604S



Background Data Summary: Mean=7.4, Std. Dev.=0.3126, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8675, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

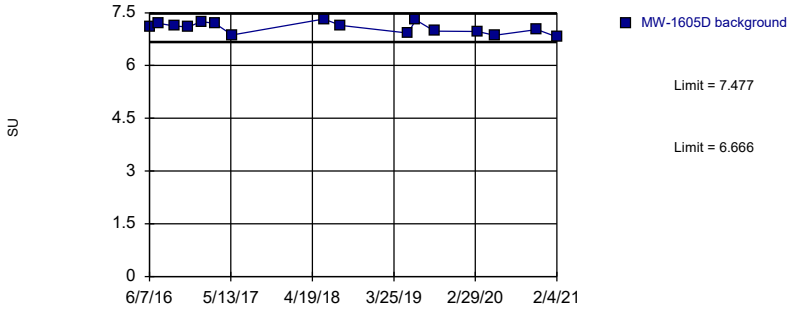
Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1605D



Background Data Summary: Mean=7.072, Std. Dev.=0.1602, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9607, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

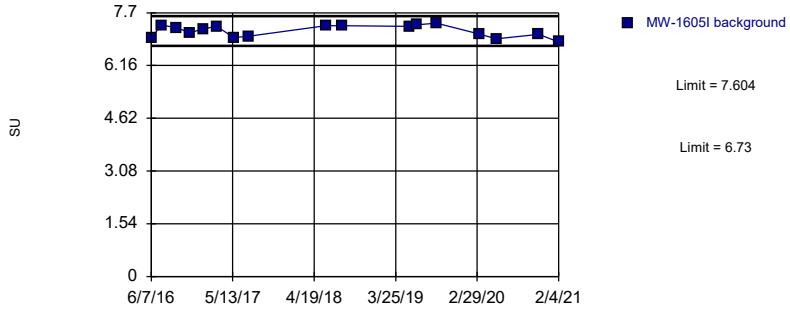
Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1605I



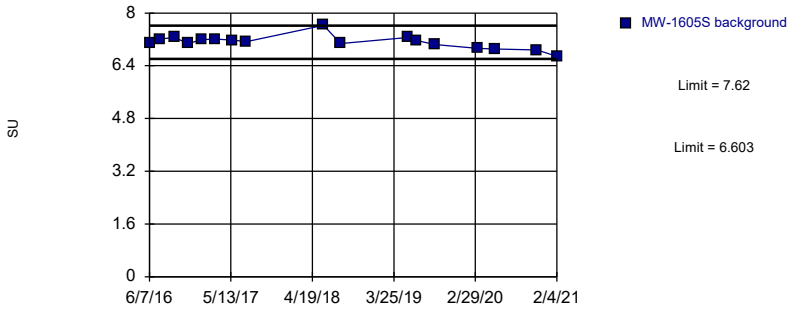
Background Data Summary: Mean=7.167, Std. Dev.=0.1747, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9076, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1605S



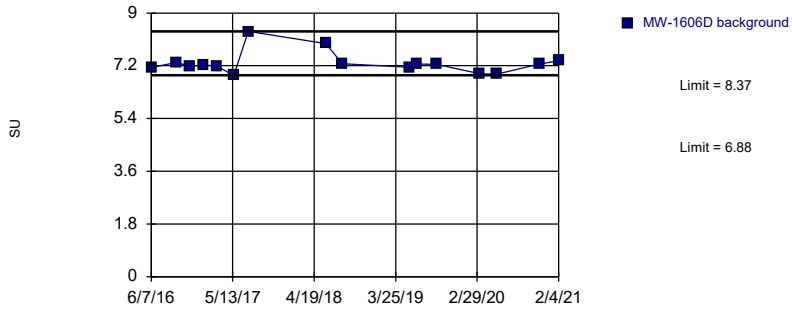
Background Data Summary: Mean=7.112, Std. Dev.=0.2034, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9348, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Non-parametric, MW-1606D



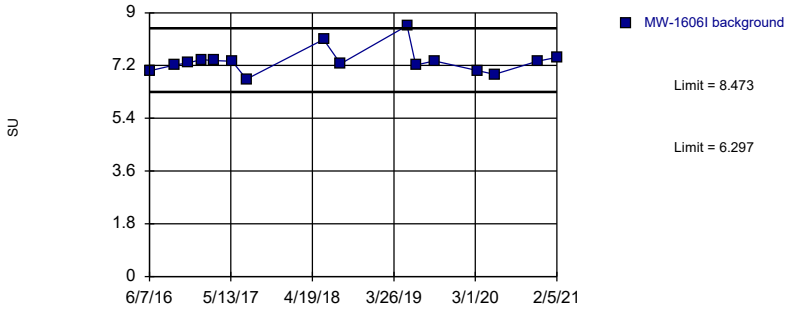
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.02574. Individual comparison alpha = 0.01291 (1 of 2). Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1606I



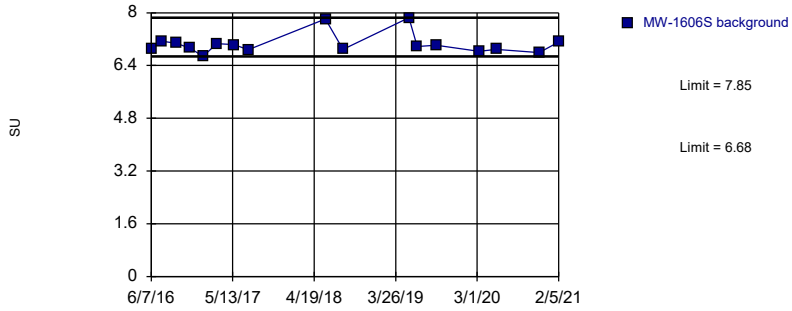
Background Data Summary (based on square root transformation): Mean=2.71, Std. Dev.=0.07931, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8451, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Non-parametric, MW-1606S

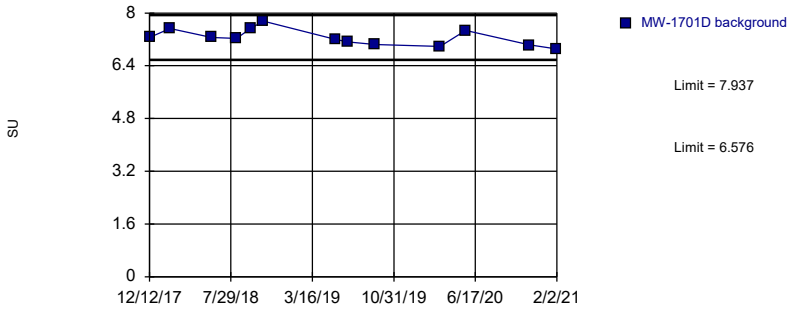


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 17 background values. Well-constituent pair annual alpha = 0.02359. Individual comparison alpha = 0.01183 (1 of 2). Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1701D (bg)



Background Data Summary: Mean=7.256, Std. Dev.=0.251, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

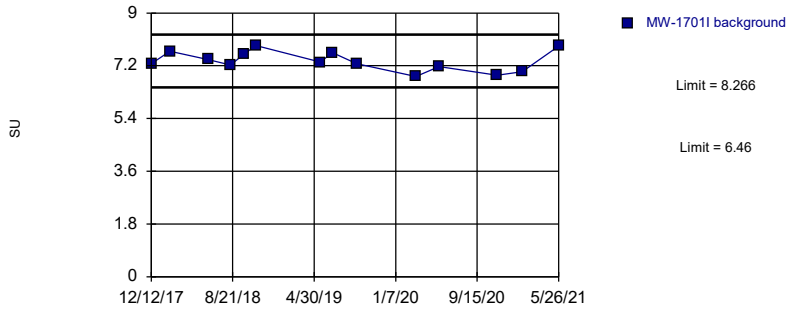
Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1701I (bg)



Background Data Summary: Mean=7.363, Std. Dev.=0.3406, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.825. Kappa = 2.651 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

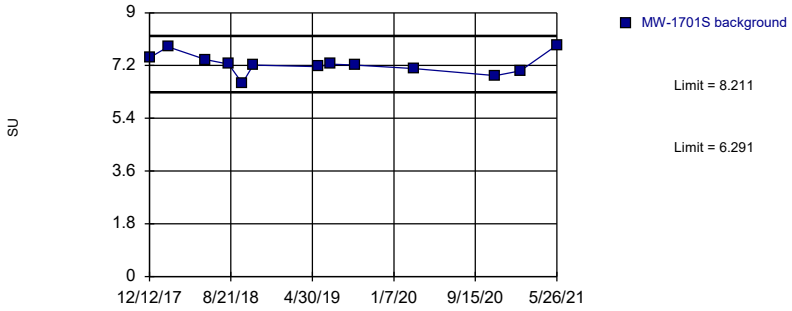
Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1701S (bg)



Background Data Summary: Mean=7.251, Std. Dev.=0.3541, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9498, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

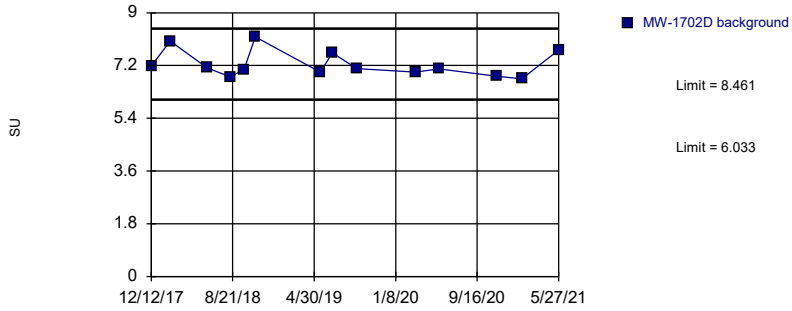
Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1702D (bg)



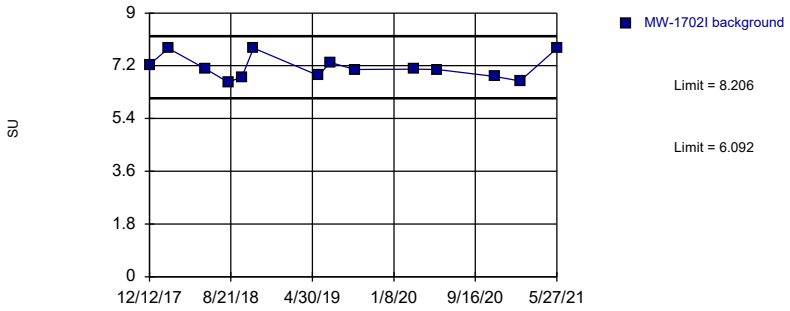
Background Data Summary: Mean=7.247, Std. Dev.=0.4578, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8534, critical = 0.825. Kappa = 2.651 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Intrawell Parametric, MW-1702I (bg)



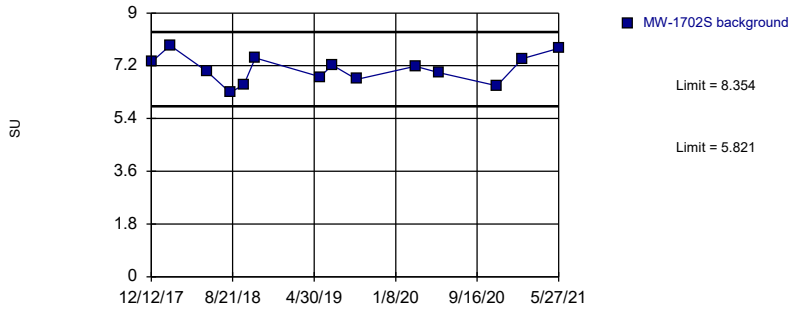
Background Data Summary: Mean=7.149, Std. Dev.=0.3987, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8831, critical = 0.825. Kappa = 2.651 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Intrawell Parametric, MW-1702S (bg)



Background Data Summary: Mean=7.087, Std. Dev.=0.4777, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9778, critical = 0.825. Kappa = 2.651 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/6/2023 4:30 PM View: Intrawell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

FIGURE E
Interwell PL

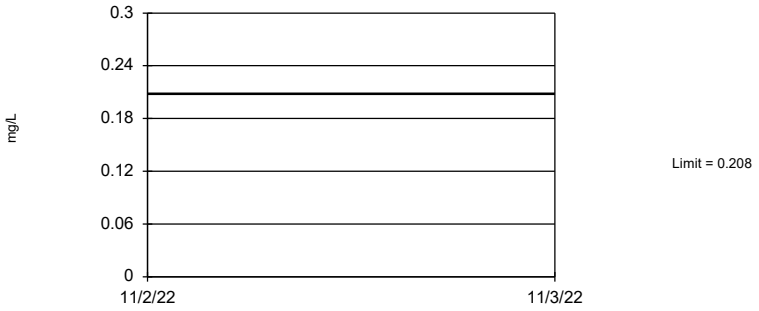
Interwell Prediction Limit - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 1/3/2023, 3:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	n/a	0.208	n/a	n/a	15 future	n/a	227	10.57	n/a	n/a	0.0000491	NP Inter (normality) 1 of 2
Chloride, total (mg/L)	n/a	46.4	n/a	n/a	15 future	n/a	227	0	n/a	n/a	0.0000491	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	n/a	0.7	n/a	n/a	15 future	n/a	239	0	n/a	n/a	0.0000491	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	n/a	76	n/a	n/a	15 future	n/a	227	0	n/a	n/a	0.0000491	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	n/a	448.8	n/a	n/a	15 future	n/a	225	0	None	x^5	0.0005016	Param Inter 1 of 2

Prediction Limit

Interwell Non-parametric



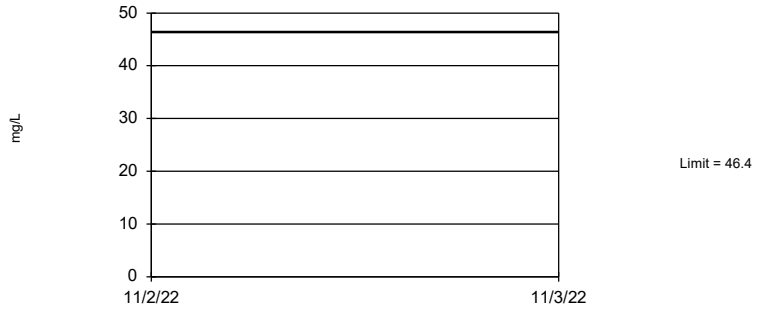
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 227 background values. 10.57% NDs. Annual per-constituent alpha = 0.001472. Individual comparison alpha = 0.0000491 (1 of 2). Assumes 15 future values.

Constituent: Boron, total Analysis Run 1/3/2023 3:58 PM View: Interwell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Interwell Non-parametric



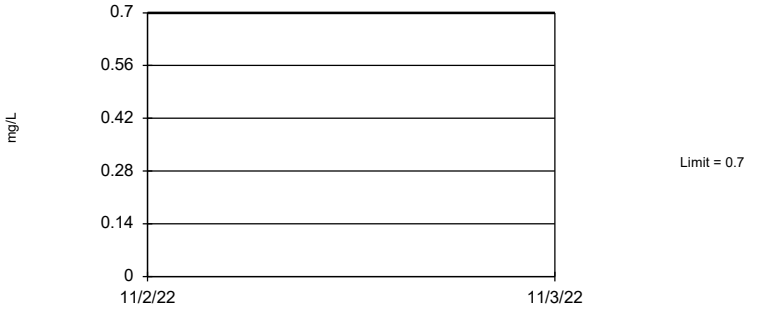
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 227 background values. Annual per-constituent alpha = 0.001472. Individual comparison alpha = 0.0000491 (1 of 2). Assumes 15 future values.

Constituent: Chloride, total Analysis Run 1/3/2023 3:58 PM View: Interwell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Interwell Non-parametric



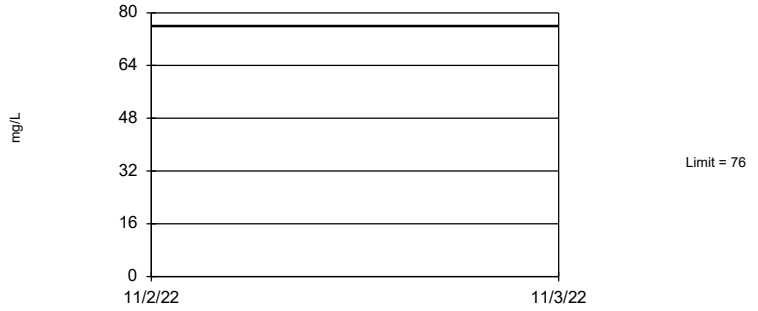
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 239 background values. Annual per-constituent alpha = 0.001472. Individual comparison alpha = 0.0000491 (1 of 2). Assumes 15 future values.

Constituent: Fluoride, total Analysis Run 1/3/2023 3:58 PM View: Interwell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.33 Sanitas software utilized by Groundwater Stats Consulting. UG

Prediction Limit

Interwell Non-parametric

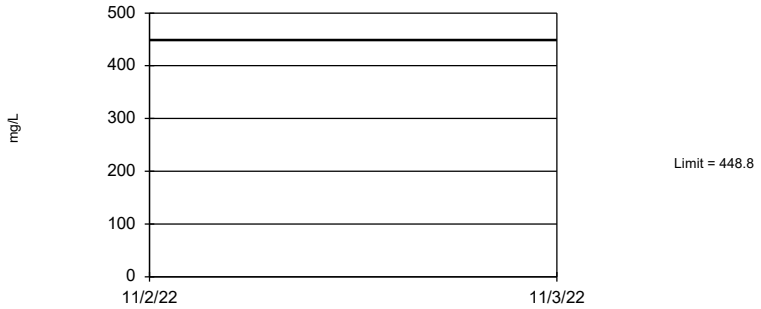


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 227 background values. Annual per-constituent alpha = 0.001472. Individual comparison alpha = 0.0000491 (1 of 2). Assumes 15 future values.

Constituent: Sulfate, total Analysis Run 1/3/2023 3:58 PM View: Interwell PL
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit

Interwell Parametric



Background Data Summary (based on x^5 transformation): Mean=9.2e12, Std. Dev.=4.4e12, n=225. Normality test: Chi Squared @alpha = 0.01, calculated = 11.67, critical = 14.07. Kappa = 2.038 (c=7, w=15, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0005016. Assumes 15 future values.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2023 3:58 PM View: Interwell PL

Rockport BAP Client: Geosyntec Data: Rockport_BAP

FIGURE F
UTL

Upper Tolerance Limits Summary Table

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 1/2/2023, 3:41 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony, total (mg/L)	n/a	0.00044	n/a	n/a	n/a	239	n/a	n/a	30.96	n/a	n/a	NaN	NP Inter(normality)
Arsenic, total (mg/L)	n/a	0.0791	n/a	n/a	n/a	239	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Barium, total (mg/L)	n/a	0.997	n/a	n/a	n/a	239	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium, total (mg/L)	n/a	0.000106	n/a	n/a	n/a	239	n/a	n/a	81.59	n/a	n/a	NaN	NP Inter(NDs)
Cadmium, total (mg/L)	n/a	0.00028	n/a	n/a	n/a	239	n/a	n/a	37.24	n/a	n/a	NaN	NP Inter(normality)
Chromium, total (mg/L)	n/a	0.00413	n/a	n/a	n/a	239	n/a	n/a	1.674	n/a	n/a	NaN	NP Inter(normality)
Cobalt, total (mg/L)	n/a	0.00995	n/a	n/a	n/a	239	n/a	n/a	0.8368	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	2.858	n/a	n/a	n/a	239	1.039	0.3582	0	None	sqrt(x)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.7	n/a	n/a	n/a	239	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Lead, total (mg/L)	n/a	0.00497	n/a	n/a	n/a	239	n/a	n/a	32.64	n/a	n/a	NaN	NP Inter(normality)
Lithium, total (mg/L)	n/a	0.038	n/a	n/a	n/a	239	n/a	n/a	9.205	n/a	n/a	NaN	NP Inter(normality)
Mercury, total (mg/L)	n/a	0.000005	n/a	n/a	n/a	215	n/a	n/a	91.63	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum, total (mg/L)	n/a	0.00867	n/a	n/a	n/a	239	n/a	n/a	2.092	n/a	n/a	NaN	NP Inter(normality)
Selenium, total (mg/L)	n/a	0.0038	n/a	n/a	n/a	239	n/a	n/a	42.68	n/a	n/a	NaN	NP Inter(normality)
Thallium, total (mg/L)	n/a	0.051	n/a	n/a	n/a	239	n/a	n/a	67.36	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G

GWPS

ROCKPORT BAP GWPS				
Constituent Name	**MCL**	**CCR Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.00044	0.006
Arsenic, Total (mg/L)	0.01		0.079	0.079
Barium, Total (mg/L)	2		0.1	2
Beryllium, Total (mg/L)	0.004		0.00011	0.004
Cadmium, Total (mg/L)	0.005		0.00028	0.005
Chromium, Total (mg/L)	0.1		0.0041	0.1
Cobalt, Total (mg/L)		0.006	0.01	0.01
Combined Radium, Total (pCi/L)	5		2.86	5
Fluoride, Total (mg/L)	4		0.7	4
Lead, Total (mg/L)		0.015	0.005	0.015
Lithium, Total (mg/L)		0.04	0.038	0.04
Mercury, Total (mg/L)	0.002		0.000005	0.002
Molybdenum, Total (mg/L)		0.1	0.0087	0.1
Selenium, Total (mg/L)	0.05		0.0038	0.05
Thallium, Total (mg/L)	0.002		0.051	0.051

**Grey cell indicates background is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H
Confidence Intervals

Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 2/14/2023, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony, total (mg/L)	MW-1002	0.00005	0.00004	0.006	No	22	0.00004727	0.000007673	4.545	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1602D	0.0001	0.00002	0.006	No	22	0.00005955	0.00004746	40.91	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1602I	0.00005864	0.00002923	0.006	No	22	0.00004818	0.0000339	4.545	None	x^(1/3)	0.01	Param.
Antimony, total (mg/L)	MW-1603D	0.0001	0.00002	0.006	No	22	0.00006045	0.00004041	45.45	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1603I	0.00007	0.00003	0.006	No	22	0.0001059	0.0002092	9.091	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1603S	0.00005	0.00004	0.006	No	22	0.00004364	0.000009021	4.545	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604D	0.0001	0.00002	0.006	No	22	0.000065	0.00004021	54.55	None	No	0.01	NP (NDs)
Antimony, total (mg/L)	MW-1604I	0.00005	0.00002	0.006	No	22	0.00004864	0.00005471	9.091	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604S	0.00007	0.00005	0.006	No	22	0.00006045	0.00001988	0	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605D	0.0001	0.00002	0.006	No	22	0.00005773	0.00004105	45.45	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605I	0.00005	0.00003	0.006	No	22	0.00004727	0.00002947	9.091	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605S	0.00005	0.00003	0.006	No	22	0.00005136	0.00003013	0	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1606D	0.0001	0.00003	0.006	No	22	0.00006909	0.00003902	59.09	None	No	0.01	NP (NDs)
Antimony, total (mg/L)	MW-1606I	0.0001	0.00002	0.006	No	22	0.00005955	0.00003836	45.45	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1606S	0.00006	0.00004	0.006	No	22	0.00005682	0.00003993	9.091	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1002	0.0002754	0.0002278	0.079	No	22	0.0002545	0.00005152	0	None	ln(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1602D	0.00956	0.008681	0.079	No	22	0.00912	0.0008189	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1602I	0.02905	0.02166	0.079	No	22	0.02536	0.006885	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1603D	0.01349	0.01189	0.079	No	22	0.01269	0.001492	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1603I	0.0151	0.0125	0.079	No	22	0.02557	0.04452	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1603S	0.0002288	0.0001684	0.079	No	22	0.0002023	0.00006141	0	None	x^(1/3)	0.01	Param.
Arsenic, total (mg/L)	MW-1604D	0.0184	0.0169	0.079	No	22	0.01785	0.00136	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1604I	0.0221	0.019	0.079	No	22	0.02256	0.008215	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1604S	0.00026	0.00018	0.079	No	22	0.0002564	0.0001373	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1605D	0.02071	0.01843	0.079	No	22	0.01957	0.00212	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1605I	0.0223	0.018	0.079	No	22	0.022	0.007847	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1605S	0.00059	0.00042	0.079	No	22	0.0007177	0.0006735	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1606D	0.0179	0.0143	0.079	No	22	0.01613	0.002108	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1606I	0.00945	0.006178	0.079	No	22	0.007814	0.003048	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1606S	0.00026	0.00018	0.079	No	22	0.004045	0.01786	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1002	0.01963	0.01438	2	No	22	0.01756	0.005941	0	None	ln(x)	0.01	Param.
Barium, total (mg/L)	MW-1602D	0.4721	0.425	2	No	22	0.4485	0.04381	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1602I	0.1269	0.1116	2	No	22	0.1193	0.01427	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1603D	0.12	0.1123	2	No	22	0.1161	0.00714	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1603I	0.094	0.0816	2	No	22	0.08968	0.01472	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1603S	0.01525	0.01084	2	No	22	0.01304	0.004112	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604D	0.2574	0.2406	2	No	22	0.249	0.0157	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604I	0.1213	0.1023	2	No	22	0.1118	0.01771	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604S	0.0188	0.0129	2	No	22	0.01667	0.007392	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1605D	0.4559	0.4216	2	No	22	0.4387	0.03195	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1605I	0.1546	0.1354	2	No	22	0.145	0.01789	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1605S	0.009498	0.007071	2	No	22	0.008388	0.002424	0	None	sqrt(x)	0.01	Param.
Barium, total (mg/L)	MW-1606D	0.4593	0.4052	2	No	22	0.4322	0.05044	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1606I	0.06537	0.0539	2	No	22	0.05964	0.01068	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1606S	0.0139	0.0111	2	No	22	0.01508	0.0112	0	None	No	0.01	NP (normality)
Beryllium, total (mg/L)	MW-1002	0.00005	0.00002	0.004	No	22	0.00004455	0.00001431	86.36	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1602D	0.00005	0.00002	0.004	No	22	0.0000395	0.00001786	68.18	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1602I	0.00005	0.00002	0.004	No	22	0.00003891	0.00001874	72.73	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603D	0.00005	0.000049	0.004	No	22	0.00004673	0.00001057	86.36	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603I	0.00005	0.00003	0.004	No	22	0.00004559	0.0000144	77.27	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603S	0.00005	0.00002	0.004	No	22	0.00004309	0.00001514	81.82	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604D	0.00005	0.00002	0.004	No	22	0.00004655	0.00001145	90.91	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604I	0.00005	0.000025	0.004	No	22	0.00004541	0.0000123	86.36	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604S	0.000059	0.00002	0.004	No	22	0.00004505	0.00001433	81.82	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605D	0.00005	0.00002	0.004	No	22	0.00004682	0.00001041	90.91	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605I	0.00005	0.00002	0.004	No	22	0.00004445	0.00001457	86.36	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605S	0.00005	0.00004	0.004	No	22	0.00004427	0.00001271	77.27	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606D	0.00005	0.000034	0.004	No	22	0.00004064	0.00001659	72.73	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606I	0.00005	0.00002	0.004	No	22	0.00004668	0.00001093	90.91	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606S	0.00005	0.00002	0.004	No	22	0.00003818	0.00001817	68.18	None	No	0.01	NP (NDs)

Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 2/14/2023, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium, total (mg/L)	MW-1002	0.00004	0.00002	0.005	No	22	0.00003482	0.00002848	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1602D	0.00002	0.00001	0.005	No	22	0.00002218	0.00001146	72.73	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1602I	0.00002	0.000007	0.005	No	22	0.00001614	0.000007167	59.09	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603D	0.00002	0.00001	0.005	No	22	0.00001959	0.00000582	72.73	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603I	0.00002	0.000016	0.005	No	22	0.00001741	0.000005297	68.18	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603S	0.00003	0.00002	0.005	No	22	0.00004682	0.0001107	4.545	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1604D	0.00002	0.000008	0.005	No	22	0.00001886	0.000003681	86.36	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1604I	0.00002	0.000009	0.005	No	22	0.00002195	0.00002262	72.73	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1604S	0.00003	0.000018	0.005	No	22	0.00002541	0.0000157	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1605D	0.00002	0.000006	0.005	No	22	0.00001873	0.000004119	86.36	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1605I	0.00002	0.000008	0.005	No	22	0.00001632	0.000006549	63.64	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1605S	0.000042	0.00003	0.005	No	22	0.00004218	0.00001764	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1606D	0.00002	0.000007	0.005	No	22	0.00001941	0.000002772	86.36	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1606I	0.00002	0.00001	0.005	No	22	0.00001741	0.000005729	72.73	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1606S	0.0000374	0.00002305	0.005	No	22	0.00003023	0.00001336	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1002	0.0002555	0.0001111	0.1	No	22	0.0002005	0.0001582	4.545	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1602D	0.0004073	0.000192	0.1	No	22	0.0003332	0.0002678	0	None	x^(1/3)	0.01	Param.
Chromium, total (mg/L)	MW-1602I	0.0002881	0.0001661	0.1	No	22	0.0002271	0.0001136	4.545	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1603D	0.0002495	0.0001454	0.1	No	21	0.0001974	0.00009435	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1603I	0.0004155	0.0001606	0.1	No	22	0.0003224	0.0002818	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1603S	0.000327	0.0001669	0.1	No	22	0.000247	0.0001492	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1604D	0.0001919	0.0001056	0.1	No	22	0.0001487	0.00008041	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1604I	0.0002661	0.000115	0.1	No	22	0.0002086	0.0001592	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1604S	0.0002928	0.0001304	0.1	No	22	0.0002304	0.0001771	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605D	0.0002658	0.0001413	0.1	No	22	0.0002148	0.0001298	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605I	0.0002534	0.0001173	0.1	No	22	0.0002296	0.0002398	4.545	None	ln(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605S	0.0007007	0.0002814	0.1	No	22	0.000491	0.0003906	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1606D	0.0002639	0.0001185	0.1	No	22	0.0002078	0.0001561	4.545	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1606I	0.0003048	0.0001416	0.1	No	22	0.0002232	0.000152	9.091	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1606S	0.0004355	0.00019	0.1	No	22	0.0003565	0.0003208	4.545	None	x^(1/3)	0.01	Param.
Cobalt, total (mg/L)	MW-1002	0.0007206	0.0005496	0.01	No	22	0.0006351	0.0001593	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1602D	0.0001624	0.00007072	0.01	No	22	0.0001517	0.0001758	0	None	ln(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1602I	0.001527	0.001278	0.01	No	22	0.001402	0.000232	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1603D	0.000584	0.000286	0.01	No	22	0.0005444	0.000446	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1603I	0.00139	0.00117	0.01	No	22	0.001363	0.0004909	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1603S	0.0004708	0.000244	0.01	No	22	0.0003574	0.0002113	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1604D	0.000071	0.000051	0.01	No	22	0.00006459	0.00002116	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1604I	0.0008316	0.0006559	0.01	No	22	0.0007438	0.0001637	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1604S	0.000365	0.000295	0.01	No	22	0.0003973	0.0002203	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1605D	0.0001293	0.00006869	0.01	No	22	0.0001045	0.00006543	0	None	sqrt(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1605I	0.001488	0.001273	0.01	No	22	0.001381	0.0002002	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1605S	0.000472	0.000355	0.01	No	22	0.0007405	0.0009083	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1606D	0.00009593	0.00005883	0.01	No	21	0.00007738	0.00003362	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1606I	0.001377	0.001029	0.01	No	22	0.001203	0.0003241	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1606S	0.000141	0.000051	0.01	No	22	0.0002105	0.0003337	4.545	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-1002	1.247	0.4896	5	No	22	0.9692	0.8304	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1602D	1.832	1.033	5	No	22	1.498	0.8445	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1602I	1.273	0.8773	5	No	22	1.075	0.3689	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603D	1.528	0.8978	5	No	22	1.213	0.5874	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603I	1.697	1.073	5	No	22	1.385	0.5813	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603S	1.08	0.5095	5	No	22	0.8558	0.6355	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604D	1.308	0.7953	5	No	22	1.052	0.4775	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604I	1.595	0.889	5	No	22	1.302	0.7292	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604S	0.954	0.4158	5	No	22	0.7486	0.5909	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605D	1.501	0.977	5	No	22	1.239	0.4877	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605I	2.04	1.455	5	No	22	1.748	0.5454	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605S	1.136	0.4411	5	No	22	0.7884	0.647	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606D	1.373	0.7663	5	No	22	1.069	0.5648	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606I	1.359	0.8065	5	No	22	1.192	0.7819	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606S	1.009	0.4581	5	No	22	0.7336	0.5134	0	None	No	0.01	Param.

Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 2/14/2023, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	MW-1002	0.9961	0.8648	4	No	22	0.9305	0.1224	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1602D	0.3417	0.3147	4	No	22	0.3282	0.02519	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1602I	0.3048	0.2815	4	No	22	0.2932	0.02169	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603D	0.3026	0.2801	4	No	22	0.2914	0.021	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603I	0.4399	0.4064	4	No	22	0.4232	0.03123	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603S	0.79	0.5154	4	No	22	0.6527	0.2558	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604D	0.2823	0.2586	4	No	22	0.2705	0.02214	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604I	0.3683	0.3299	4	No	22	0.3491	0.03584	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604S	1.04	0.89	4	No	22	0.9727	0.1831	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	MW-1605D	0.2228	0.199	4	No	22	0.2109	0.02223	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1605I	0.2191	0.1898	4	No	22	0.2027	0.0312	0	None	x^2	0.01	Param.
Fluoride, total (mg/L)	MW-1605S	0.5697	0.5149	4	No	22	0.5423	0.05108	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606D	0.1958	0.1778	4	No	22	0.1868	0.01673	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606I	0.2136	0.19	4	No	22	0.2018	0.02196	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606S	0.5052	0.4048	4	No	22	0.455	0.09359	0	None	No	0.01	Param.
Lead, total (mg/L)	MW-1002	0.0002	0.00003	0.015	No	22	0.0001193	0.00008756	50	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1602D	0.0001246	0.00002848	0.015	No	22	0.0001712	0.0001858	40.91	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead, total (mg/L)	MW-1602I	0.0001704	0.00006195	0.015	No	22	0.0001567	0.00009828	31.82	Kaplan-Meier	No	0.01	Param.
Lead, total (mg/L)	MW-1603D	0.00006693	0.00001515	0.015	No	21	0.0001345	0.0001162	42.86	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead, total (mg/L)	MW-1603I	0.0002022	0.00004273	0.015	No	22	0.0002248	0.0003239	22.73	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead, total (mg/L)	MW-1603S	0.0002	0.000072	0.015	No	22	0.0001546	0.00008169	54.55	Kaplan-Meier	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1604D	0.0002	0.000022	0.015	No	22	0.000107	0.0000834	40.91	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604I	0.0002	0.00002	0.015	No	22	0.0001087	0.00008504	40.91	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604S	0.0002	0.00004	0.015	No	21	0.0001325	0.00008986	47.62	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1605D	0.0002	0.000045	0.015	No	22	0.0001349	0.00008909	54.55	None	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1605I	0.0001407	0.00007284	0.015	No	22	0.0001068	0.00006322	13.64	None	No	0.01	Param.
Lead, total (mg/L)	MW-1605S	0.0001421	0.00003253	0.015	No	22	0.0003041	0.0005055	31.82	Kaplan-Meier	ln(x)	0.01	Param.
Lead, total (mg/L)	MW-1606D	0.0002	0.000023	0.015	No	22	0.000136	0.00008467	50	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1606I	0.0002	0.000037	0.015	No	22	0.0001387	0.0000806	54.55	None	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1606S	0.0001579	0.00003364	0.015	No	21	0.0001548	0.0001111	38.1	Kaplan-Meier	No	0.01	Param.
Lithium, total (mg/L)	MW-1002	0.0092	0.004849	0.04	No	22	0.007424	0.004403	13.64	None	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1602D	0.006047	0.002617	0.04	No	22	0.005491	0.005204	4.545	None	ln(x)	0.01	Param.
Lithium, total (mg/L)	MW-1602I	0.008907	0.004956	0.04	No	22	0.006931	0.00368	4.545	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1603D	0.008	0.00326	0.04	No	22	0.006305	0.00387	9.091	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1603I	0.01119	0.007219	0.04	No	22	0.009205	0.003701	13.64	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1603S	0.008368	0.003664	0.04	No	22	0.00657	0.004836	13.64	None	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1604D	0.009	0.0014	0.04	No	22	0.00797	0.01092	18.18	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1604I	0.009869	0.006206	0.04	No	22	0.008038	0.003413	4.545	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1604S	0.01233	0.009134	0.04	No	22	0.01073	0.002977	4.545	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1605D	0.006	0.00156	0.04	No	22	0.004325	0.003914	9.091	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1605I	0.01	0.00497	0.04	No	22	0.006924	0.003204	0	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1605S	0.01517	0.0113	0.04	No	22	0.01324	0.003606	4.545	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1606D	0.006	0.00051	0.04	No	22	0.004111	0.005043	13.64	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1606I	0.007275	0.004068	0.04	No	22	0.006048	0.003434	4.545	None	x^(1/3)	0.01	Param.
Lithium, total (mg/L)	MW-1606S	0.01148	0.008242	0.04	No	22	0.00986	0.003014	4.545	None	No	0.01	Param.
Mercury, total (mg/L)	MW-1002	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1602D	0.000005	0.000003	0.002	No	21	0.000004905	4.4e-7	90.48	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1602I	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603D	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603I	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603S	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604D	0.000005	0.000002	0.002	No	21	0.000004857	6.5e-7	90.48	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604I	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604S	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605D	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605I	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605S	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606D	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606I	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606S	0.000005	0.000005	0.002	No	21	0.000005	2.8e-14	95.24	None	No	0.01	NP (NDs)

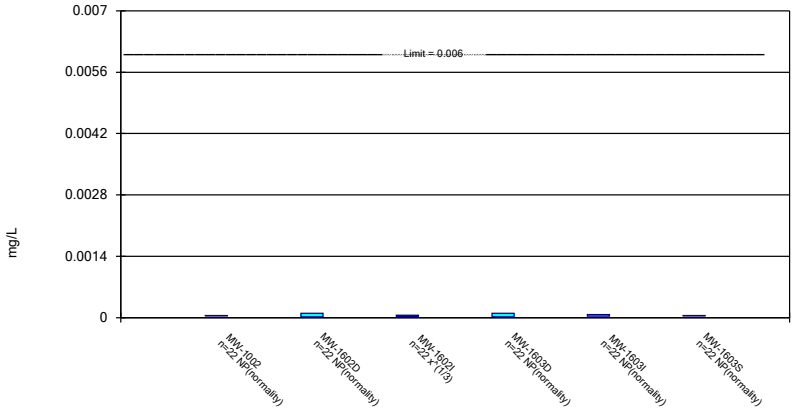
Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 2/14/2023, 9:54 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum, total (mg/L)	MW-1002	0.007769	0.004426	0.1	No	22	0.006098	0.003114	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1602D	0.003697	0.003302	0.1	No	22	0.003506	0.0003802	0	None	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1602I	0.00223	0.00203	0.1	No	22	0.002188	0.0001869	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1603D	0.004954	0.003891	0.1	No	22	0.00446	0.001042	0	None	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1603I	0.008092	0.006233	0.1	No	22	0.007162	0.001732	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1603S	0.0007438	0.0002885	0.1	No	22	0.0009164	0.000791	18.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Molybdenum, total (mg/L)	MW-1604D	0.002951	0.002536	0.1	No	22	0.002763	0.0004216	0	None	ln(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1604I	0.002652	0.002298	0.1	No	22	0.002475	0.0003298	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1604S	0.003183	0.002318	0.1	No	22	0.00279	0.0008107	0	None	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1605D	0.00221	0.00194	0.1	No	21	0.002146	0.0003307	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1605I	0.001279	0.001101	0.1	No	21	0.00119	0.0001609	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1605S	0.002041	0.001725	0.1	No	22	0.001864	0.0003195	0	None	x^2	0.01	Param.
Molybdenum, total (mg/L)	MW-1606D	0.00207	0.00177	0.1	No	22	0.002035	0.0004419	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1606I	0.001487	0.001116	0.1	No	21	0.001302	0.0003364	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1606S	0.001326	0.001044	0.1	No	21	0.001205	0.0002898	0	None	ln(x)	0.01	Param.
Selenium, total (mg/L)	MW-1002	0.0001	0.00007	0.05	No	22	0.0001745	0.0001813	22.73	None	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1602D	0.0005	0.00005	0.05	No	22	0.0002832	0.0002247	50	None	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1602I	0.0005	0.00006	0.05	No	22	0.0003	0.0002249	54.55	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603D	0.0005	0.00004	0.05	No	22	0.0003277	0.0002186	59.09	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603I	0.0005	0.0001	0.05	No	22	0.0003718	0.0001971	68.18	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603S	0.0002428	0.00009553	0.05	No	22	0.0002355	0.0003153	13.64	None	ln(x)	0.01	Param.
Selenium, total (mg/L)	MW-1604D	0.0005	0.0001	0.05	No	22	0.0004195	0.0001751	81.82	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1604I	0.0005	0.00007	0.05	No	22	0.0003227	0.0002188	59.09	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1604S	0.0001442	0.00007855	0.05	No	22	0.0001114	0.00006112	4.545	None	No	0.01	Param.
Selenium, total (mg/L)	MW-1605D	0.0005	0.00005	0.05	No	22	0.0003559	0.0002163	68.18	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1605I	0.0005	0.00006	0.05	No	22	0.0003373	0.0002207	63.64	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1605S	0.0009955	0.0005007	0.05	No	21	0.0007481	0.0004484	0	None	No	0.01	Param.
Selenium, total (mg/L)	MW-1606D	0.0005	0.0001	0.05	No	22	0.0003809	0.0001994	72.73	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1606I	0.0005	0.0001	0.05	No	22	0.0003982	0.0001926	77.27	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1606S	0.004074	0.002579	0.05	No	22	0.003327	0.001393	0	None	No	0.01	Param.
Thallium, total (mg/L)	MW-1002	0.0002	0.00003	0.051	No	22	0.0001241	0.00008534	54.55	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1602D	0.0002	0.000066	0.051	No	22	0.0001707	0.00006414	81.82	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1602I	0.0002	0.00003	0.051	No	22	0.0001291	0.00008761	59.09	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603D	0.0002	0.000068	0.051	No	22	0.0001558	0.00007441	72.73	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603I	0.0002	0.00004	0.051	No	22	0.0001259	0.00008336	54.55	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603S	0.0002	0.00003	0.051	No	22	0.0001257	0.00008471	54.55	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604D	0.0002	0.000095	0.051	No	22	0.0001716	0.00006335	81.82	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604I	0.0002	0.00002	0.051	No	22	0.0001227	0.00008786	54.55	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604S	0.0002	0.00004	0.051	No	22	0.0001279	0.00008234	54.55	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1605D	0.0002	0.00005	0.051	No	22	0.0001768	0.00006003	86.36	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1605I	0.0002	0.00003	0.051	No	22	0.0001233	0.00008469	50	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1605S	0.0002	0.00003	0.051	No	22	0.0001132	0.00008283	45.45	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1606D	0.0002	0.000124	0.051	No	22	0.0001738	0.00005956	81.82	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1606I	0.0002	0.00004	0.051	No	22	0.0001292	0.00008003	54.55	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1606S	0.0002	0.00003	0.051	No	22	0.0001304	0.00008671	59.09	None	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

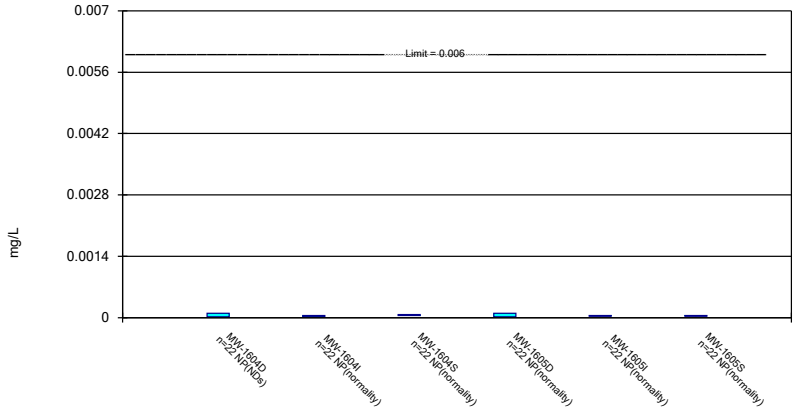


Constituent: Antimony, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

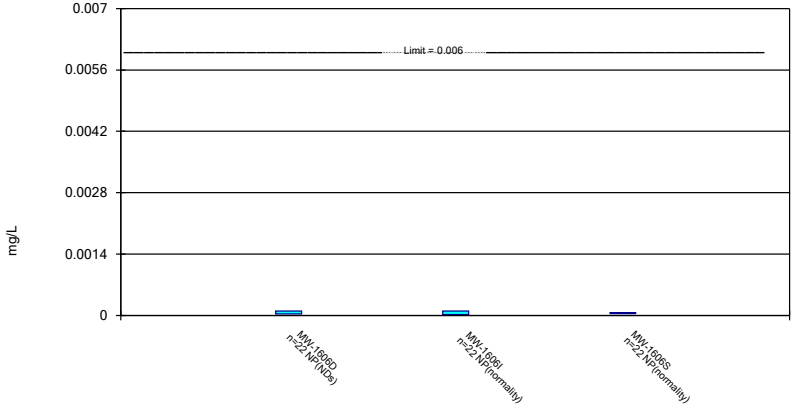


Constituent: Antimony, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

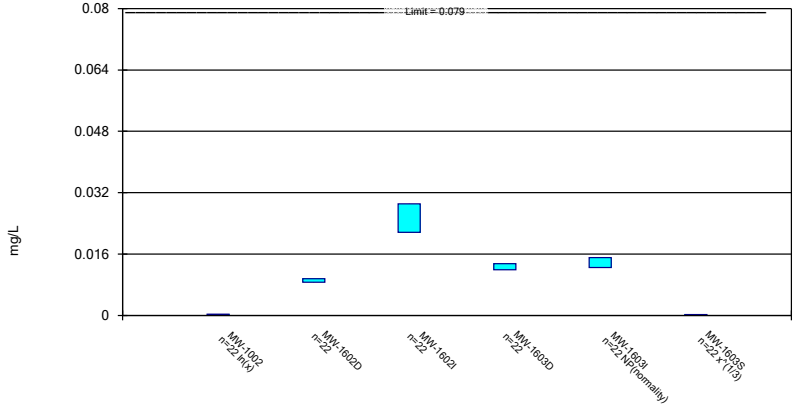


Constituent: Antimony, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

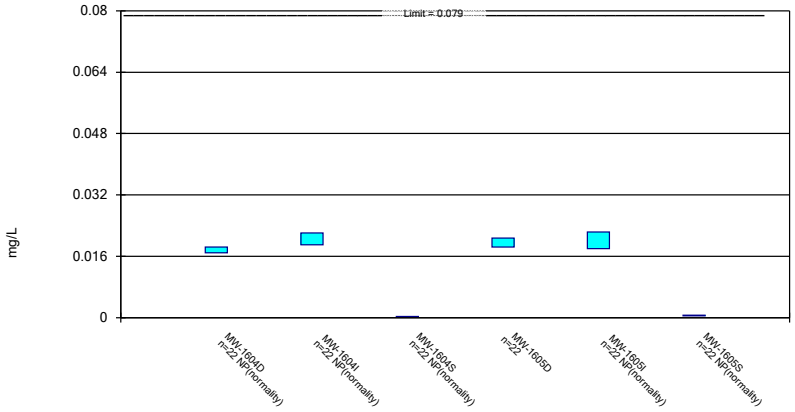
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

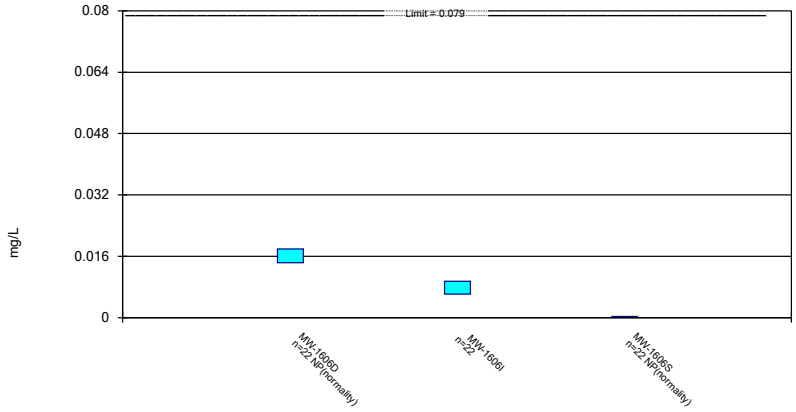


Constituent: Arsenic, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

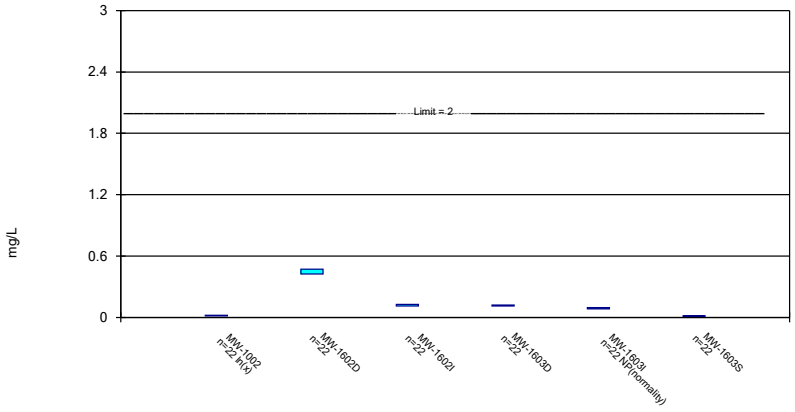


Constituent: Arsenic, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

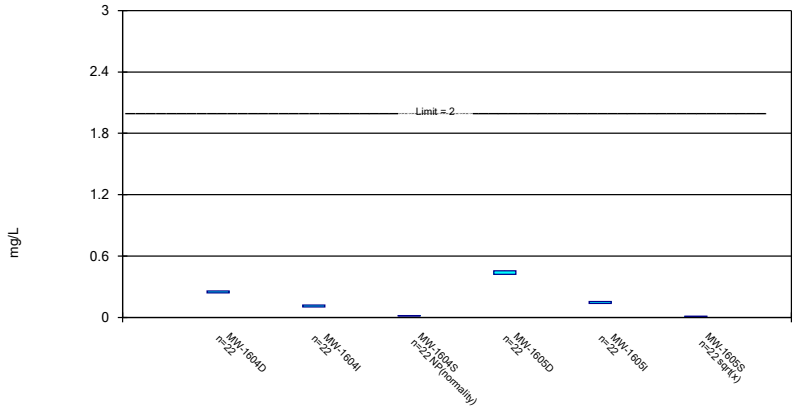


Constituent: Barium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

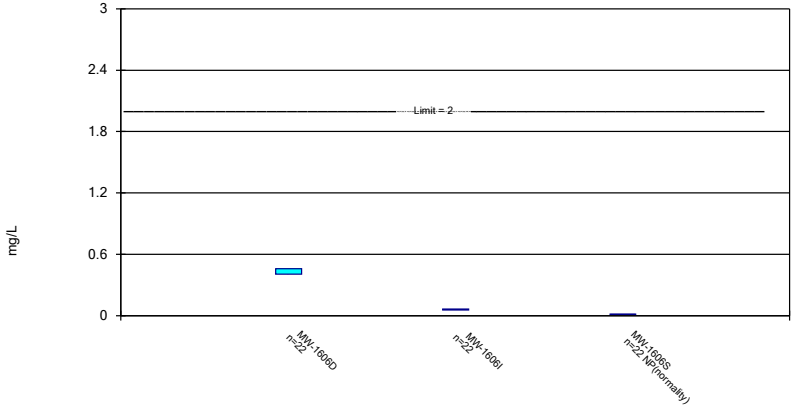
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

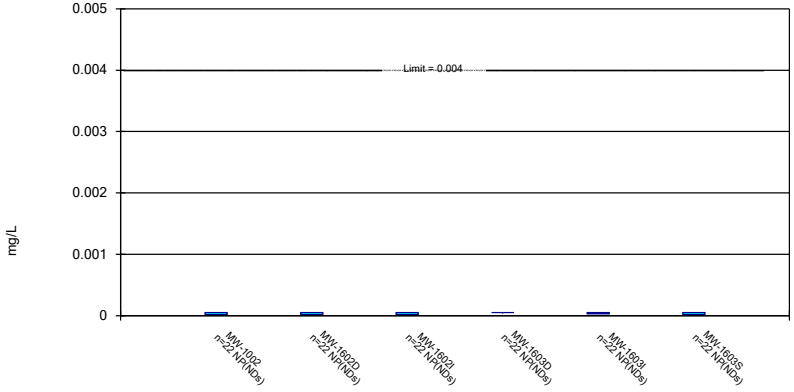
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

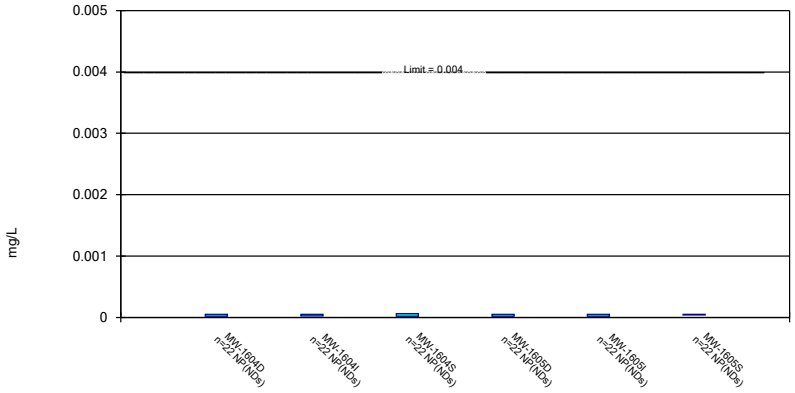
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

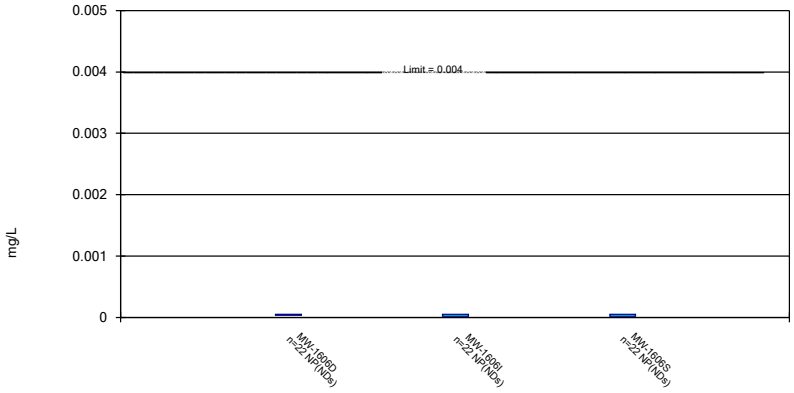
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

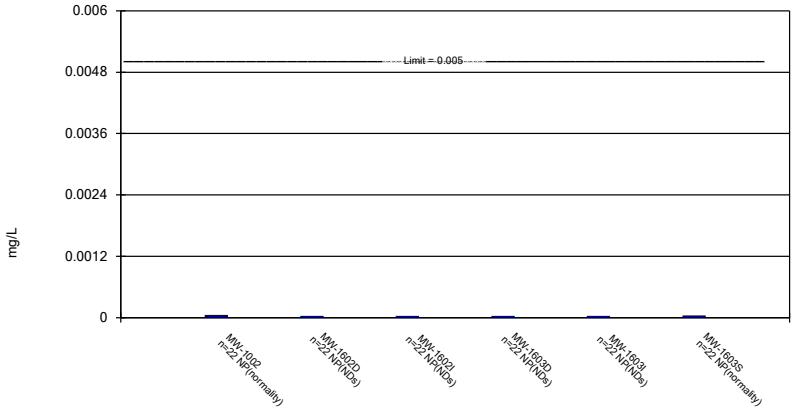


Constituent: Beryllium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

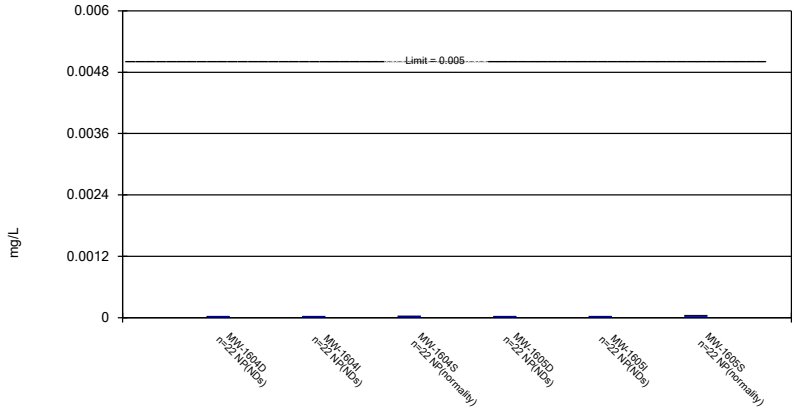


Constituent: Cadmium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

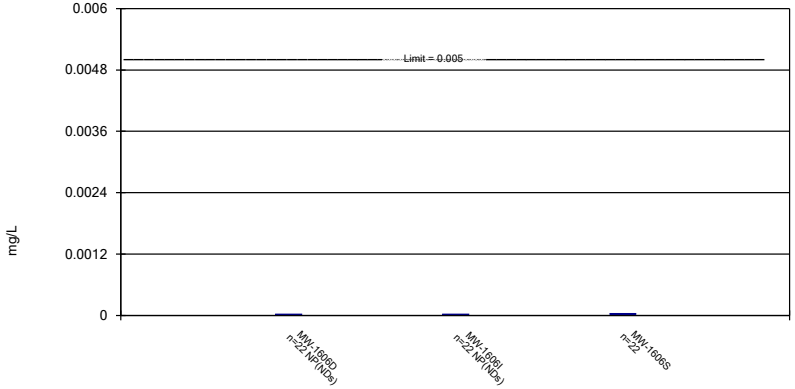


Constituent: Cadmium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

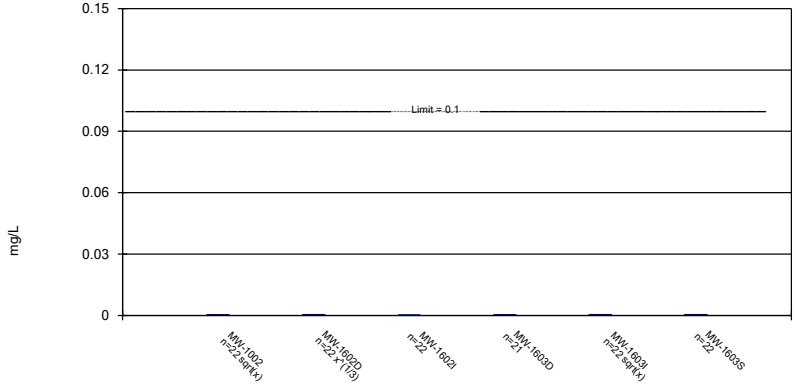


Constituent: Cadmium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric Confidence Interval

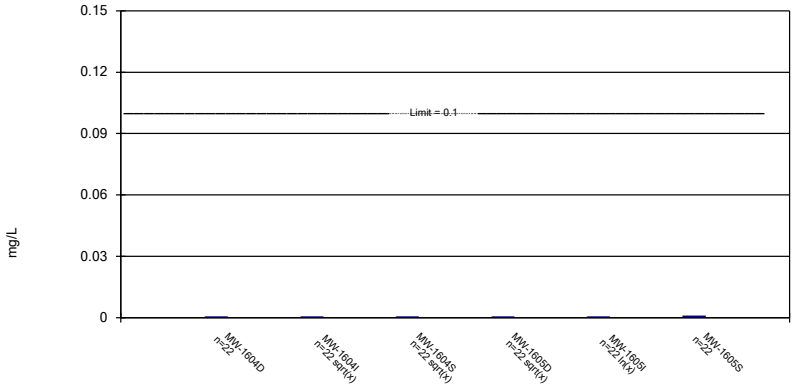
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

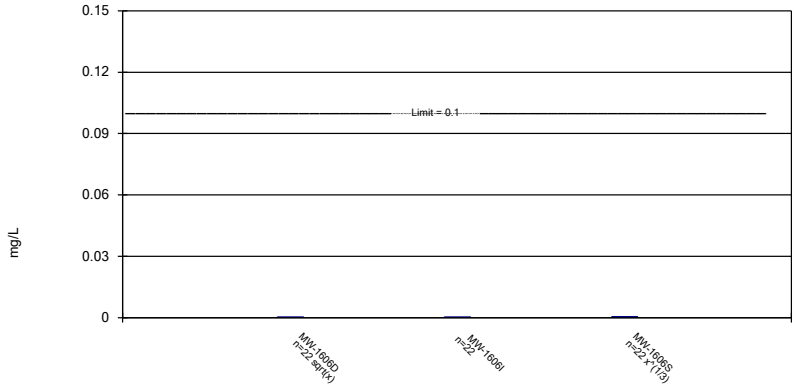


Constituent: Chromium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

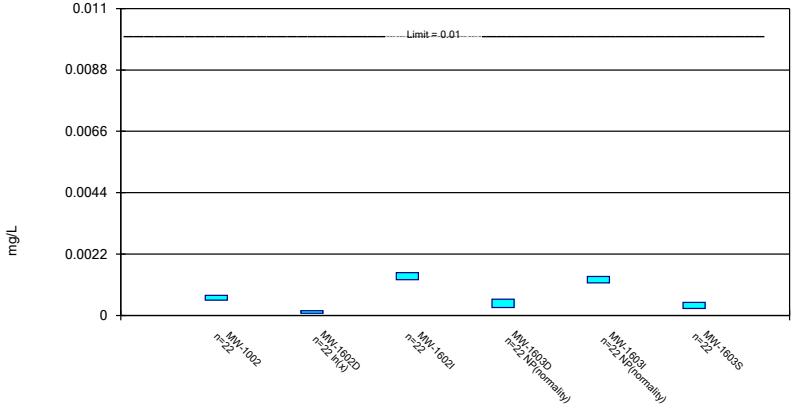


Constituent: Chromium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

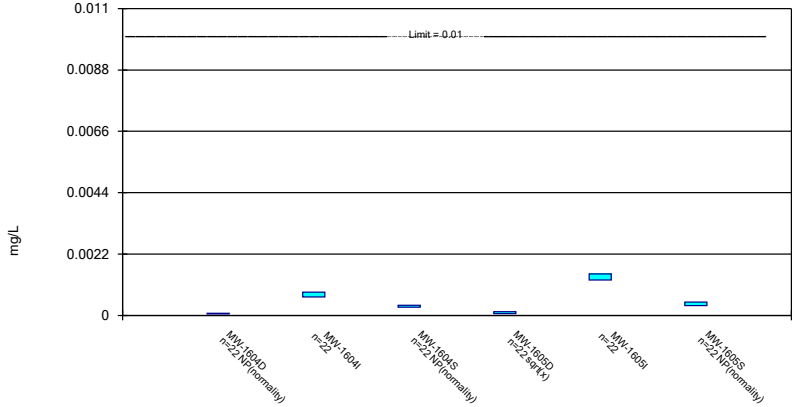


Constituent: Cobalt, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

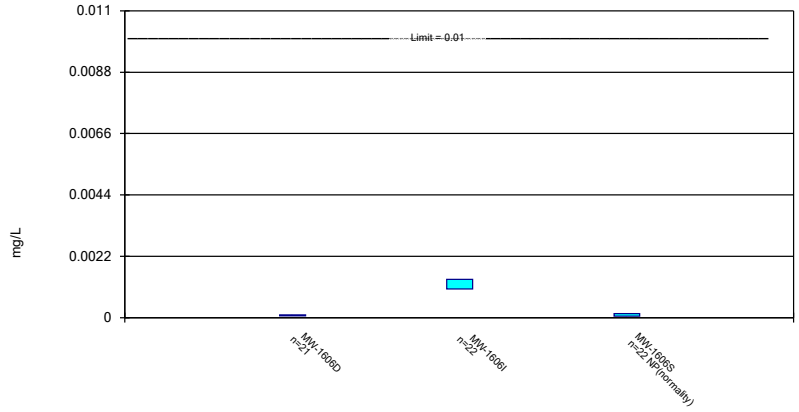
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

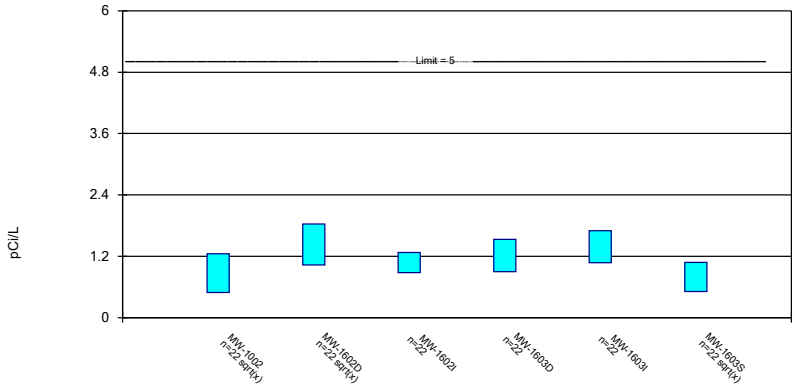
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

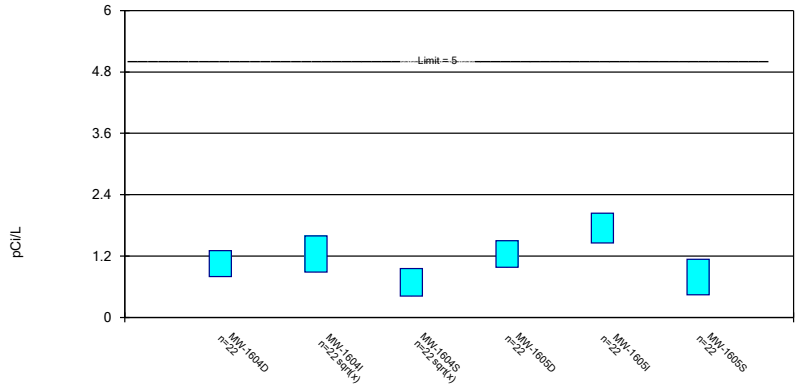
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

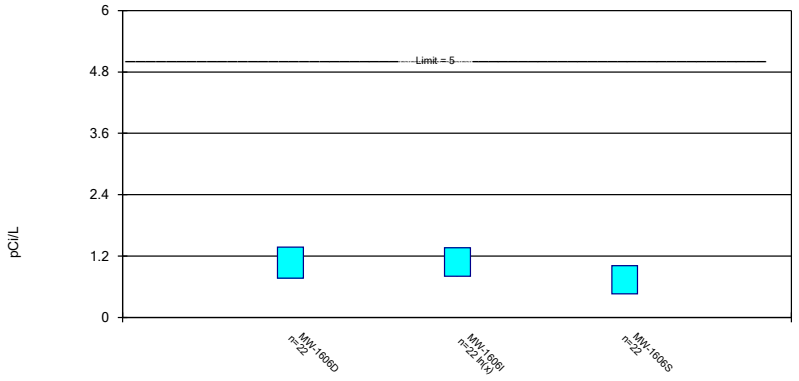
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

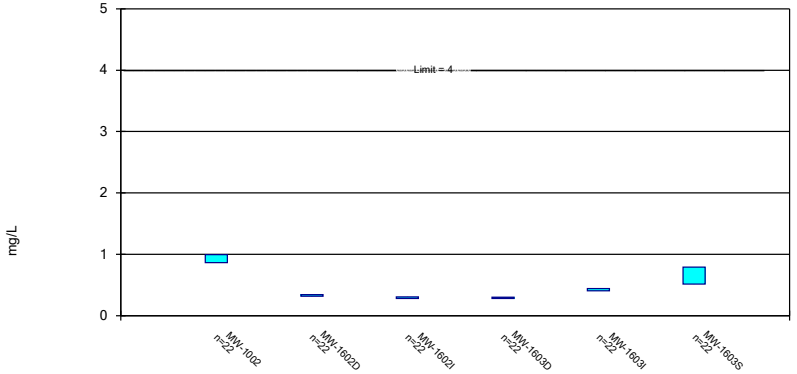


Constituent: Combined Radium 226 + 228 Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

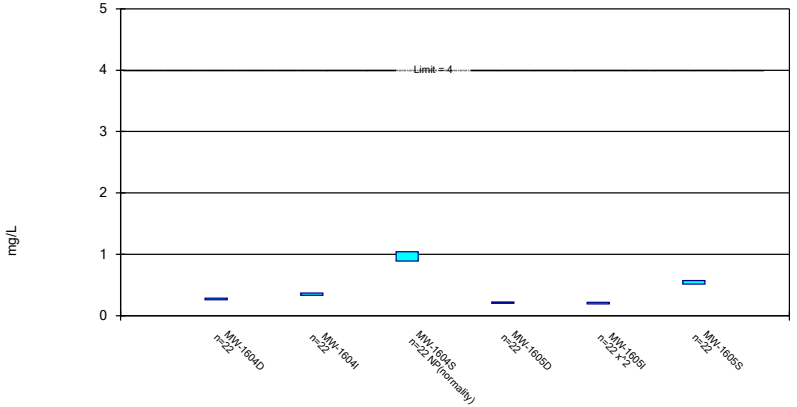


Constituent: Fluoride, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

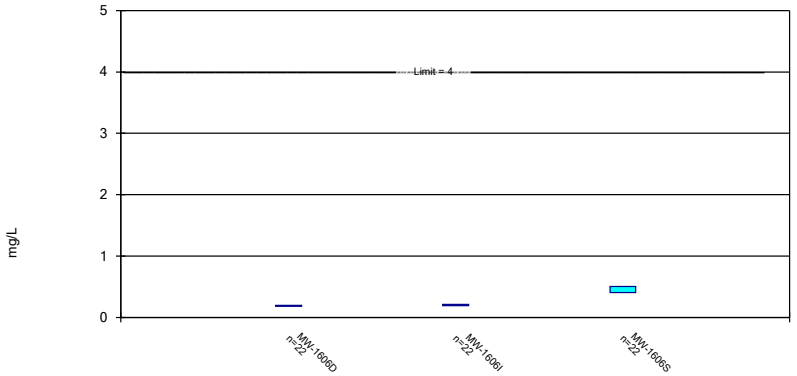


Constituent: Fluoride, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

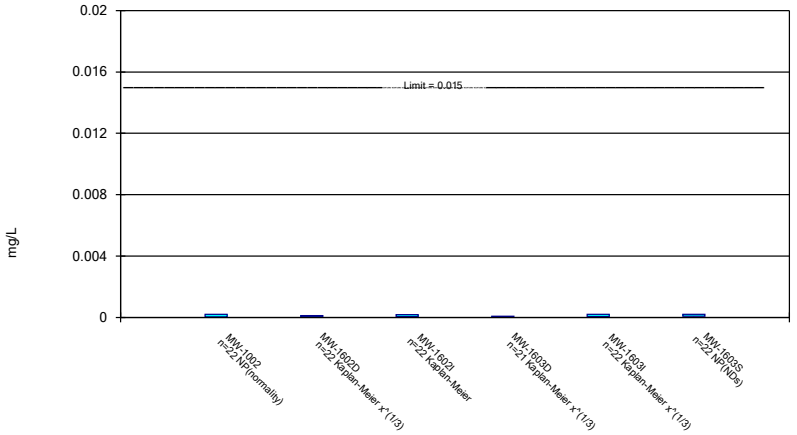


Constituent: Fluoride, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

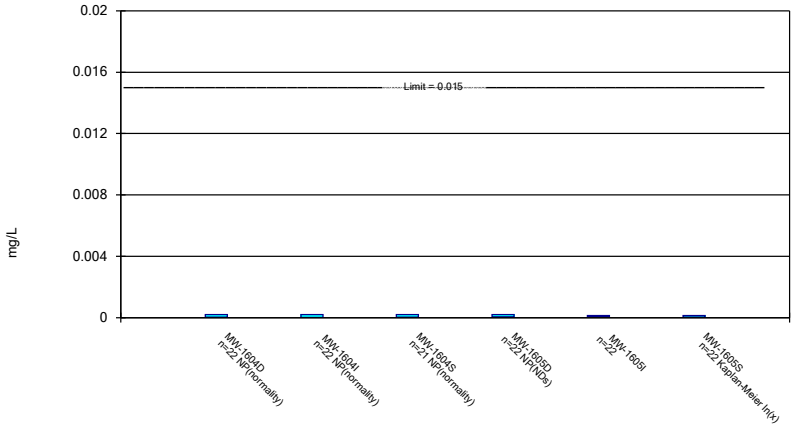
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

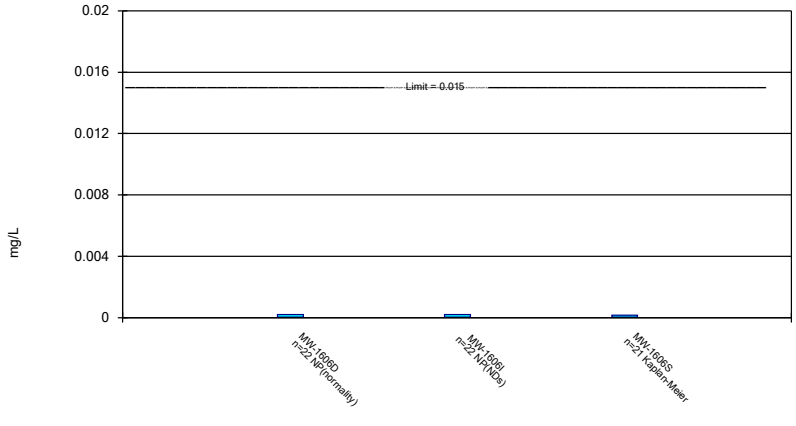


Constituent: Lead, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

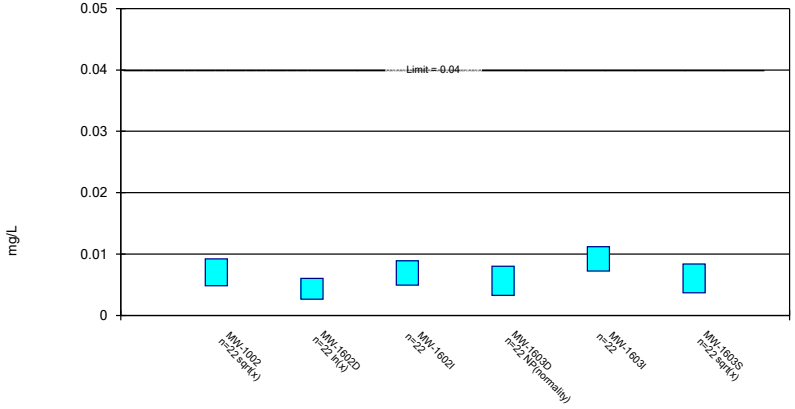


Constituent: Lead, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

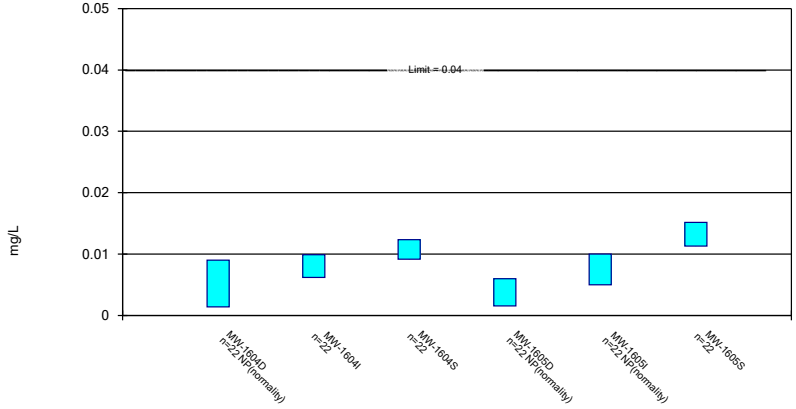


Constituent: Lithium, total Analysis Run 2/14/2023 9:50 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

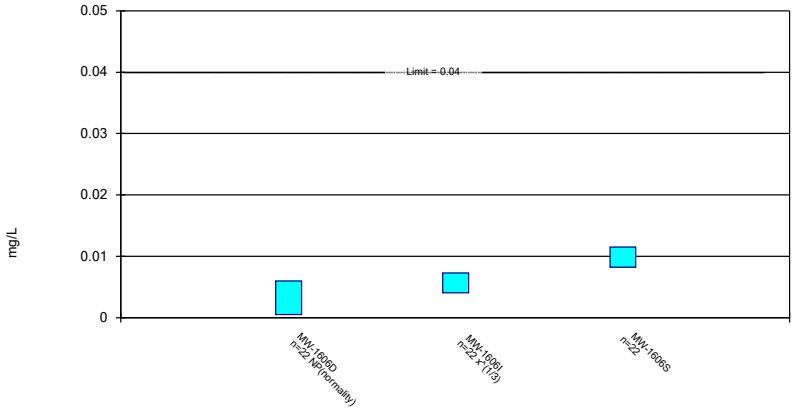
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

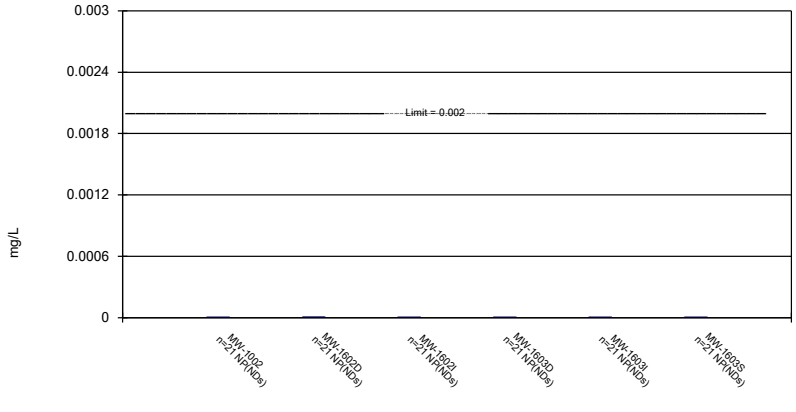
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

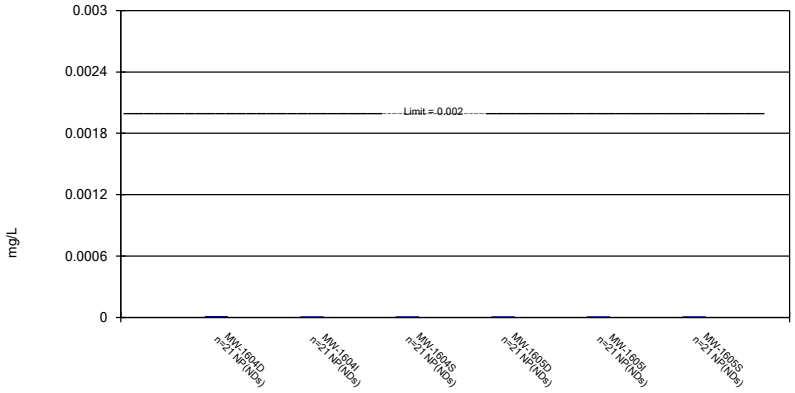
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

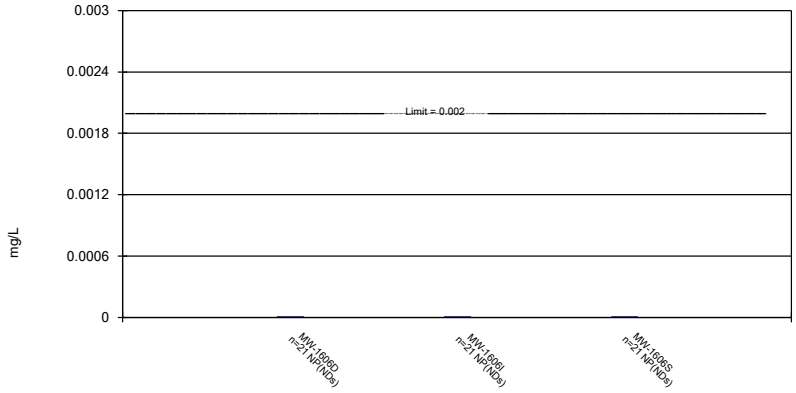
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

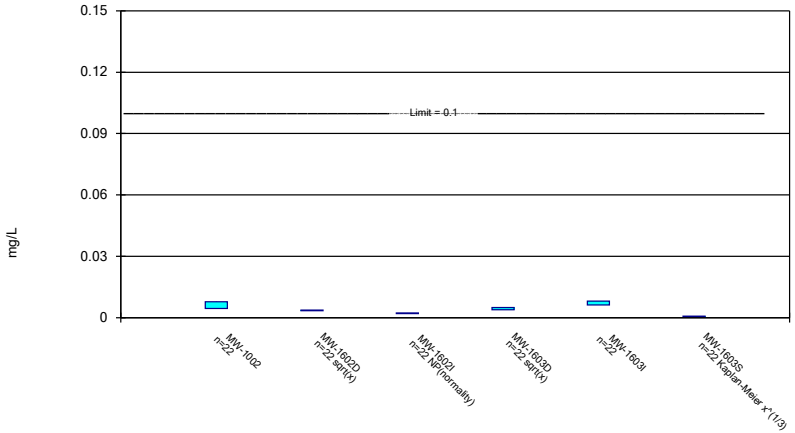
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

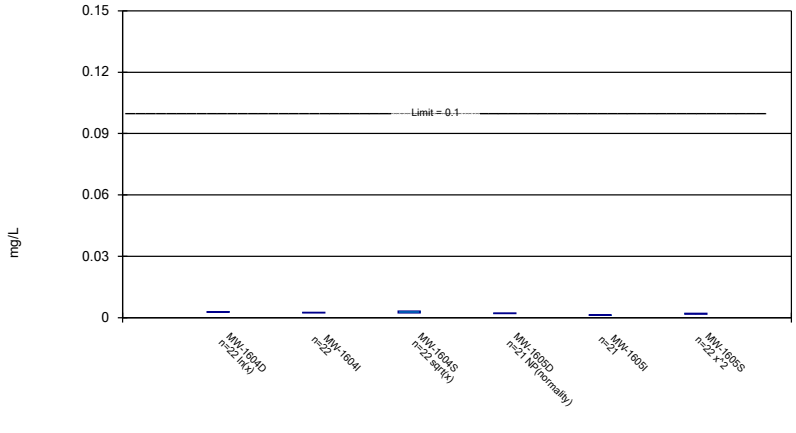


Constituent: Molybdenum, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

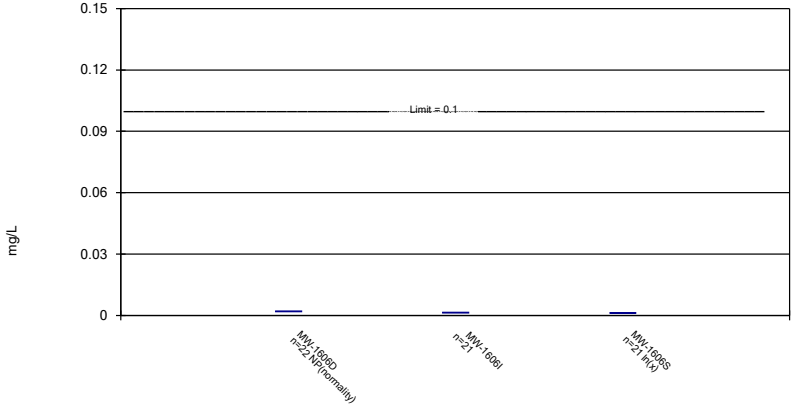


Constituent: Molybdenum, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

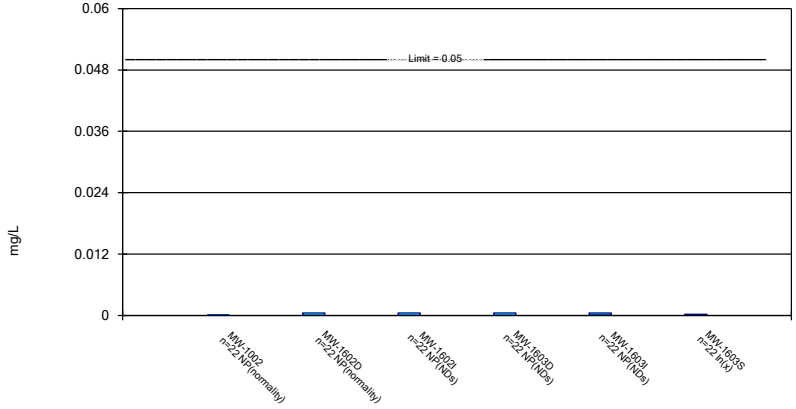


Constituent: Molybdenum, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

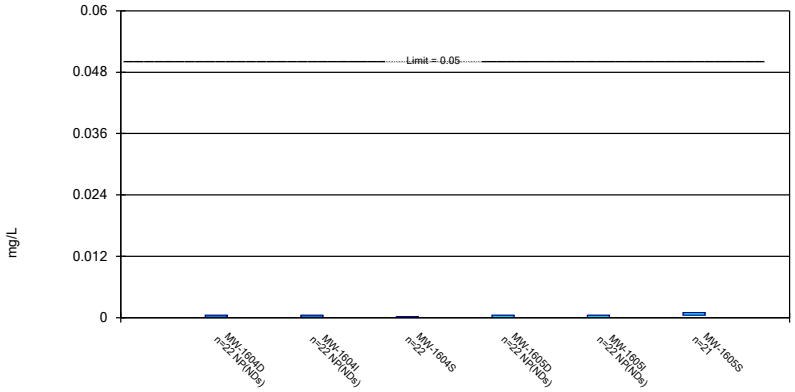
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

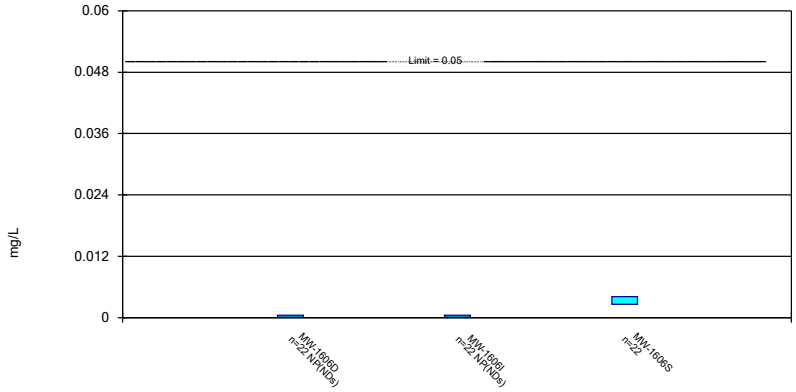


Constituent: Selenium, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

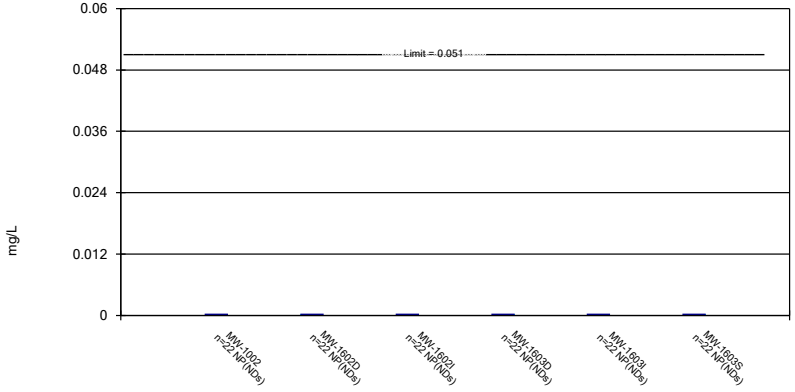


Constituent: Selenium, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

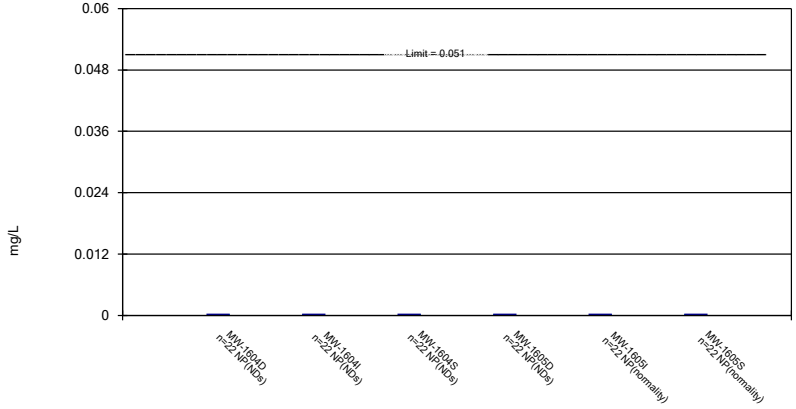


Constituent: Thallium, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.9.6.36 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

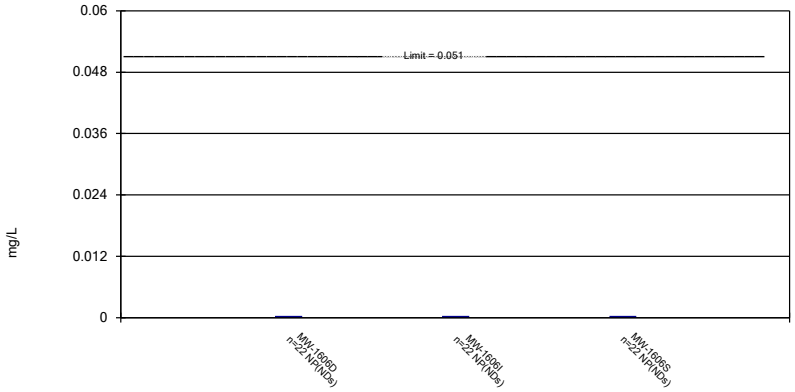
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, total Analysis Run 2/14/2023 9:51 AM View: Confidence Intervals

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Geosyntec consultants

engineers | scientists | innovators

STATISTICAL ANALYSIS SUMMARY

EAST AND WEST BOTTOM ASH PONDS

Rockport Plant

Rockport, Indiana

Prepared for

American Electric Power
1 Riverside Plaza
Columbus, Ohio 43215-2372

Prepared by

Geosyntec Consultants, Inc.
500 West Wilson Bridge Road, Suite 250
Worthington, Ohio 43085

Project Number: CHA8500B

November 14, 2023

TABLE OF CONTENTS

1. INTRODUCTION 1

2. BOTTOM ASH POND EVALUATION 2
   2.1 Data Validation and QA/QC 2
   2.2 Statistical Analysis 2
      2.2.1 Evaluation of Potential Appendix IV SSLs 2
      2.2.2 Evaluation of Potential Appendix III SSIs 2
   2.3 Conclusions 4

3. REFERENCES 5

LIST OF TABLES

Table 1: Groundwater Data Summary

Table 2: Appendix IV Groundwater Protection Standards

Table 3: Appendix III Data Summary

LIST OF ATTACHMENTS

Attachment A: Certification by Qualified Professional Engineer

Attachment B: Statistical Analysis Output

ACRONYMS AND ABBREVIATIONS

BAP	Bottom Ash Pond
CCR	coal combustion residuals
CFR	code of federal regulations
GWPS	groundwater protection standard
LCL	lower confidence limit
LPL	lower prediction limits
QA/QC	quality assurance and quality control
SSI	statistically significant increase
SSL	statistically significant level
SU	standard units
TDS	total dissolved solids
UPL	upper prediction limit
USEPA	United States Environmental Protection Agency

1. INTRODUCTION

In accordance with United States Environmental Protection Agency (USEPA) regulations regarding the disposal of coal combustion residuals (CCR) in landfills and surface impoundments (Code of Federal Regulations [CFR] Title 40, Section 257, Subpart D), groundwater monitoring has been conducted at the East and West Bottom Ash Ponds (BAP), an existing CCR unit at the Rockport Power Plant in Rockport, Indiana. Recent groundwater monitoring results were used to identify concentrations of Appendix IV constituents that are above site-specific groundwater protection standards (GWPSs).

Based on detection monitoring conducted in 2017 and 2018, statistically significant increases (SSIs) over background were concluded for boron, chloride, fluoride, total dissolved solids (TDS), and sulfate at the BAPs. An alternative source was not identified at the time, so the BAP has been in assessment monitoring since 2018. During the most recent assessment monitoring event, completed in February 2023, Appendix III detections of boron, chloride, fluoride, pH, sulfate, and TDS were observed above background levels and the unit remained in assessment monitoring (Geosyntec 2023).

An annual sampling event at the BAP for the Appendix IV parameters required by 40 CFR 257.95(b) was completed in February 2023, and a semiannual sampling event for the Appendix III and Appendix IV parameters required by 40 CFR 257.95(d)(1) was completed in May and June 2023. The results of these annual and semiannual assessment monitoring events are documented in this report.

Before the statistical analyses were conducted, the groundwater data underwent several validation tests, including those for completeness, sample tracking accuracy, transcription errors, and consistent use of measurement units. No data quality issues that would impact data usability were identified.

The monitoring data were submitted to Groundwater Stats Consulting, LLC for statistical analysis. Confidence intervals were calculated for Appendix IV parameters at the compliance wells to assess whether Appendix IV parameters were present at SSLs above the GWPS. No SSLs were identified; however, concentrations of Appendix III parameters remained above background. Therefore, the unit will remain in assessment monitoring. Certification of the selected statistical methods by a qualified professional engineer is documented in Attachment A.

2. BOTTOM ASH POND EVALUATION

2.1 Data Validation and QA/QC

During the assessment monitoring program, two sets of samples were collected for analysis from each upgradient and downgradient well to meet the requirements of 40 CFR 257.95(b) (February 2023) and 40 CFR 257.95(d)(1) (May-June 2023). Samples from the both the February and May 2022 sample events were analyzed for all Appendix III and Appendix IV parameters. A summary of data collected during these assessment monitoring events may be found in Table 1.

Chemical analysis was completed by a National Environmental Laboratory Accreditation Program–certified analytical laboratory. The laboratory completed analysis of quality assurance and quality control (QA/QC) samples such as laboratory reagent blanks, continuing calibration verification samples, and laboratory fortified blanks.

The analytical data were imported into a Microsoft Access database, where checks were completed to assess the accuracy of sample location identification and analyte identification. Where necessary, unit conversions were applied to standardize reported units across all sampling events. Exported data files were created for use with the Sanitas™ v.10.0.13b statistics software. The export file was checked against the analytical data for transcription errors and completeness. No QA/QC issues that would impact data usability were noted.

2.2 Statistical Analysis

Statistical analyses for the BAP were conducted in accordance with the October 2020 *Statistical Analysis Plan* (Geosyntec 2020), except where noted below. Time series plots and results for all completed statistical tests are provided in Attachment B.

The data obtained in February and May 2023 were screened for potential outliers; however, no outliers were identified in either set of data (Attachment B).

2.2.1 Evaluation of Potential Appendix IV SSLs

A confidence interval was constructed for each Appendix IV parameter at each compliance well. Confidence limits were generally calculated parametrically ($\alpha = 0.01$); however, nonparametric confidence limits were calculated in some cases (e.g., when the data were not normally distributed or when the nondetect frequency was too high). An SSL was concluded if the lower confidence limit (LCL) was above the GWPS (i.e., if the entire confidence interval was above the GWPS). The calculated confidence limits (Attachment B) were compared to the GWPSs provided in Table 2. The GWPSs were established during a previous statistical analysis as either (a) the background concentration or (b) the maximum contaminant level (MCL) and risk-based levels specified in 40 CFR 257.95(h)(2), whichever was greater (Geosyntec 2023).

No SSLs were identified at the Rockport BAP.

2.2.2 Evaluation of Potential Appendix III SSIs

The Appendix III results were analyzed to assess whether concentrations of Appendix III parameters at the compliance wells were above background concentrations. Data collected during the May-June 2023 assessment monitoring event from each compliance well were compared to

previously established prediction limits to assess whether the results are above background values. Data collected during the May 2023 assessment monitoring event from each compliance well were compared to previously established prediction limits to assess whether the results are above background values (Table 3). The following concentrations were above the upper prediction limits (UPLs) as noted:

- Boron concentrations were above the interwell UPL of 0.208 milligrams per liter (mg/L) at MW-1002 (1.63 mg/L), MW-1603S (1.20 mg/L), MW-1604S (0.672 mg/L), and MW-1605S (0.499 mg/L).

- Calcium concentrations were above the intrawell UPL of 90.9 mg/L at MW-1602I (102 mg/L).

- Chloride concentrations were above the interwell UPL of 46.4 mg/L at MW-1602D (66.7 mg/L), MW-1604S (55.7 mg/L), and MW-1605S (47.1 mg/L).

- Fluoride concentrations exceeded the interwell UPL of 0.700 mg/L at MW-1002 (1.21 mg/L), MW-1603S (1.37 mg/L), and MW-1604S (0.90 mg/L).

- The reported pH values were below the intrawell lower prediction limit (LPL) of 6.6 standard units (SU) at MW-1603I (5.8 SU), the intrawell LPL of 6.2 SU at MW-1603S (5.4 SU), the intrawell LPL of 6.7 SU at MW-1605I (6.6 SU), and the intrawell LPL of 6.6 SU at MW-1605S (6.5 SU).

- Sulfate concentrations exceeded the interwell UPL of 76.0 mg/L at MW-1002 (205 mg/L), MW-1602I (235 mg/L), MW-1603S (176 mg/L), MW-1604I (95.7 mg/L), MW-1604S (128 mg/L), MW-1605I (102 mg/L) and at MW-1605S (163 mg/L).

- TDS concentrations exceeded the interwell UPL of 449 mg/L at MW-1002 (560 mg/L), MW-1602D (450 mg/L), MW-1602I (620 mg/L), MW-1603I (460 mg/L), MW-1603S (450 mg/L), MW-1604S (520 mg/L), MW-1605I (450 mg/L), and MW-1605S (560 mg/L).

While the prediction limits were calculated for a one-of-two retesting procedure, SSIs were conservatively assumed if the May-June 2023 sample was above the UPL or below the LPL in the case of pH. Based on this evaluation, concentrations of Appendix III constituents appear to be above or below background concentrations and the unit will remain in assessment monitoring.

2.3 Conclusions

An annual and a semiannual assessment monitoring event were conducted in accordance with the CCR Rule. The laboratory and field data were reviewed prior to statistical analysis, and no QA/QC issues that impacted data usability were identified. A review of outliers identified no potential outliers in the February 2023 and May 2023 data. A confidence interval was constructed at each compliance well for each Appendix IV parameter; SSLs were concluded if the entire confidence interval was above the GWPS. No SSLs were identified. Appendix III parameters were compared to prediction limits; concentrations of boron, calcium, chloride, fluoride, sulfate, and TDS were identified above the prediction limits and pH values were identified below the LPLs.

Based on this evaluation, the Rockport BAP CCR unit will remain in assessment monitoring.

3. REFERENCES

Geosyntec. 2020. *Statistical Analysis Plan – Rockport Plant*. Geosyntec Consultants, Inc. October.

Geosyntec. 2023. *Statistical Analysis Summary – Bottom Ash Pond, Rockport Plant, Rockport, Indiana*. Geosyntec Consultants, Inc. February.

TABLES

Table 1. Groundwater Data Summary
Statistical Analysis Summary
Rockport Plant - East and West Bottom Ash Ponds

Parameter	Unit	MW-1002		MW-1600D		MW-1600I		MW-1600S		MW-1601D			MW-1601I	MW-1601I	MW-1601S	
		2/8/2023	5/31/2023	2/7/2023	5/31/2023	2/7/2023	5/31/2023	2/7/2023	6/1/2023	2/8/2023	6/1/2023	6/6/2023	2/8/2023	6/1/2023	2/8/2023	6/1/2023
Antimony	µg/L	0.05 J1	0.051 J1	0.1 U1	0.1 U1	0.02 J1	0.030 J1	0.02 J1	0.017 J1	0.1 U1	0.018 J1	--	0.1 U1	0.031 J1	0.1 U1	0.016 J1
Arsenic	µg/L	0.23	0.27	16.8	15.3	17.8	18.0	0.38	0.31	11.7	9.79	--	18.6	17.3	2.28	2.02
Barium	µg/L	18.0	15.3	810	774	662	593	18.1	18.3	530	494	--	594	568	28.9	28.0
Beryllium	µg/L	0.007 J1	0.05 U1	0.008 J1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	--	0.05 U1	0.05 U1	0.05 U1	0.05 U1
Boron	mg/L	1.63	1.63	0.017 J1	0.016 J1	0.021 J1	0.011 J1	0.037 J1	0.027 J1	0.029 J1	0.022 J1	--	0.027 J1	0.023 J1	0.144	0.116
Cadmium	µg/L	0.023	0.028	0.02 U1	0.02 U1	0.02 U1	0.02 U1	0.011 J1	0.006 J1	0.02 U1	0.02 U1	--	0.02 U1	0.02 U1	0.02 U1	0.005 J1
Calcium	mg/L	62.4	49.8	78.4	74.8	72.0	65.5	53.6	51.3	84.6	73.5	--	79.7	76.7	65.8 M1	63.0
Chloride	mg/L	32.1	30.1	29.0	28.5	25.4	24.4	22.4	30.8	20.4	--	23.9	29.2	28.6	35.2	36.5
Chromium	µg/L	0.27	0.26 J1	0.35	0.27 J1	0.26	0.21 J1	0.35	0.27 J1	0.34	0.18 J1	--	0.30	0.29 J1	0.36	0.27 J1
Cobalt	µg/L	0.482	0.576	0.076	0.081	1.18	1.09	0.119	0.062	0.048	0.055	--	1.22	1.11	0.051	0.049
Combined Radium	pCi/L	1.02	0.59	1.74	2.2	2.73	1.84	1.17	0.42	2.09	0.88	--	1.99	2	0.38	0.54
Fluoride	mg/L	1.08	1.21	0.21	0.20	0.24	0.22	0.54	0.54	0.17	--	0.17	0.24	0.23	0.39	0.36
Lead	µg/L	0.2 U1	0.06 J1	0.2 U1	0.05 J1	0.06 J1	0.12 J1	0.06 J1	0.2 U1	0.2 U1	0.2 U1	--	0.2 U1	0.2 U1	0.2 U1	0.2 U1
Lithium	mg/L	0.00653	0.0048	0.00570	0.0050	0.00707	0.0057	0.0115	0.0104	0.00150	0.0016	--	0.00696	0.0062	0.00538	0.0054
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	--	0.005 U1	0.005 U1	0.005 U1	0.005 U1
Molybdenum	µg/L	18.0	21.5	3.5	2.1	1.7	1.6	0.6	0.5	3.1	2.5	--	2.3	2.2	1.9	1.8
Selenium	µg/L	0.70	0.12 J1	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.50	0.52	0.5 U1	0.5 U1	--	0.5 U1	0.5 U1	0.75	1.01
Sulfate	mg/L	194	205	42.4	42.2	51.3	50.6	34.1	41.6	20.4	--	26.4	48.7	48.8	54.4	52.8
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	--	0.05 J1	0.2 U1	0.2 U1	0.2 U1
Total Dissolved Solids	mg/L	560	560	380	390	410	430	370	390	410	--	410	420	420	370	390
pH	SU	7.88	7.3	7.57	6.95	7.51	7.25	7.14	5.29	7.49	5.64	7.44	7.2	5.64	7.88	5.82

Table 1. Groundwater Data Summary
Statistical Analysis Summary
Rockport Plant - East and West Bottom Ash Ponds

Parameter	Unit	MW-1602D		MW-1602I	MW-1602I	MW-1603D			MW-1603I		MW-1603S	MW-1603S	MW-1604D		MW-1604I		
		2/9/2023	5/31/2023	2/8/2023	5/31/2023	2/9/2023	5/31/2023	6/6/2023	2/9/2023	5/31/2023	2/9/2023	5/31/2023	2/9/2023	5/31/2023	2/9/2023	5/31/2023	6/6/2023
Antimony	µg/L	0.1 U1	0.013 J1	0.15	0.032 J1	0.1 U1	0.036 J1	--	0.05 J1	0.031 J1	0.04 J1	0.042 J1	0.1 U1	0.1 U1	0.02 J1	0.031 J1	--
Arsenic	µg/L	8.89	9.17	72.4	24.5	14.5	13.4	--	15.8	11.6	0.20	0.18	16.9	15.8	18.9	16.7	--
Barium	µg/L	411	408	123	120	129	122	--	78.5	64.0	8.27	6.78	257	231 M1	83.6	90.9	--
Beryllium	µg/L	0.007 J1	0.05 U1	0.012 J1	0.05 U1	0.011 J1	0.05 U1	--	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	--
Boron	mg/L	0.048 J1	0.046 J1	0.041 J1	0.040 J1	0.034 J1	0.027 J1	--	0.076	0.041 J1	1.28	1.20	0.021 J1	0.01 J1	0.065	0.102	--
Cadmium	µg/L	0.02 U1	0.02 U1	0.005 J1	0.02 U1	0.02 U1	0.016 J1	--	0.02 U1	0.02 U1	0.028	0.018 J1	0.008 J1	0.02 U1	0.02 U1	0.007 J1	--
Calcium	mg/L	62.9	62.0	77.3	102	81.9	80.4 M1	--	75.8	60.8	39.4	32.6	64.5	59.1 M1	57.2	56.7	--
Chloride	mg/L	77.6	66.7	23.6	24.1	28.0	--	28.4	31.9	31.6	38.0	37.7	15.3	15.2	34.7	--	38.4
Chromium	µg/L	0.18 J1	0.24 J1	0.31	0.22 J1	0.25	0.25 J1	--	0.36	0.24 J1	0.29	0.20 J1	0.28	0.17 J1	0.30	0.19 J1	--
Cobalt	µg/L	0.042	0.045	1.46	1.49	0.272	0.275	--	1.19	0.915	0.480	0.434	0.058	0.048	0.528	0.509	--
Combined Radium	pCi/L	1.35	2.42	1.73	1.86	0.97	1.01	--	1.73	0.82	1.91	0.85	1.19	0.67	0.82	2.04	--
Fluoride	mg/L	0.32	0.31	0.27	0.24	0.27	--	0.27	0.41	0.39	1.08	1.37	0.27	0.25	0.38	--	0.35
Lead	µg/L	0.2 U1	0.2 U1	0.20	0.2 U1	0.2 U1	0.17 J1	--	0.21	0.06 J1	0.06 J1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	--
Lithium	mg/L	0.00239	0.0021	0.00555	0.0056	0.00347	0.0033	--	0.00713	0.0053	0.00414	0.0028	0.00156	0.0013	0.00571	0.0055	--
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	--	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	--
Molybdenum	µg/L	3.2	3.2	2.1	2.0	3.5	3.4	--	6.5	5.5	0.7	0.5	2.5	2.4	2.1	1.8	--
Selenium	µg/L	0.5 U1	0.5 U1	0.5 U1	0.05 J1	0.5 U1	0.5 U1	--	0.5 U1	0.5 U1	0.74	0.52	0.5 U1	0.5 U1	0.5 U1	0.5 U1	--
Sulfate	mg/L	21.9	22.3	105	235	36.3	--	37.2	83.2	75.2	177	176	19.0	18.4	70.2	--	95.7
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.03 J1	0.2 U1	0.06 J1	--	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	--
Total Dissolved Solids	mg/L	440	450	430 S7	620	320	--	370	460	460	460	450	320	330	380	--	420
pH	SU	7.85	7.32	7.75	7.25	7.93	5.79	6.79	7.31	5.82	6.97	5.39	7.24	7.17	7.25	7.28	7.23

Table 1. Groundwater Data Summary
Statistical Analysis Summary
Rockport Plant - East and West Bottom Ash Ponds

Parameter	Unit	MW-1604S			MW-1605D		MW-1605I		MW-1605S		MW-1606D		MW-1606I		MW-1606S		MW-1701D	
		2/8/2023	5/31/2023	6/6/2023	2/8/2023	5/30/2023	2/8/2023	5/30/2023	2/9/2023	5/30/2023	2/8/2023	5/30/2023	2/8/2023	5/30/2023	2/8/2023	5/30/2023	2/7/2023	6/1/2023
Antimony	µg/L	0.05 J1	0.051 J1	--	0.1 U1	0.016 J1	0.05 J1	0.024 J1	0.05 J1	0.033 J1	0.1 U1	0.017 J1	0.04 J1	0.027 J1	0.05 J1	0.035 J1	0.1 U1	0.014 J1
Arsenic	µg/L	0.16	0.15	--	20.6	18.6	19.0	14.0	0.84	0.48	17.8	16.3	20.3	12.2	0.22	0.14	9.53	8.84
Barium	µg/L	16.5	15.1	--	439	402	127	105	6.86	4.88	484	457	57.2	46.7	14.4	9.77	61.6	55.9
Beryllium	µg/L	0.05 U1	0.05 U1	--	0.043 J1	0.05 U1	0.05 U1	0.05 U1	0.052	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.011 J1	0.05 U1	0.05 U1	0.05 U1
Boron	mg/L	0.782	0.672	--	0.014 J1	0.016 J1	0.046 J1	0.069	0.595	0.499	0.016 J1	0.017 J1	0.012 J1	0.013 J1	0.019 J1	0.020 J1	0.022 J1	0.013 J1
Cadmium	µg/L	0.021	0.024	--	0.005 J1	0.02 U1	0.006 J1	0.02 U1	0.038	0.036	0.02 U1	0.02 U1	0.005 J1	0.02 U1	0.127	0.024	0.02 U1	0.02 U1
Calcium	mg/L	80.3	76.1	--	72.8	69.5	76.0	60.6	68.3	53.5	79.7	77.4	61.8	55.9	45.0	39.6	66.5	62.1
Chloride	mg/L	62.7	--	55.7	25.3	24.5	35.0	32.4	50.5	47.1	27.1	26.3	17.3	17.4	28.2	22.5	14.6	14.2
Chromium	µg/L	0.25	0.19 J1	--	0.23	0.18 J1	0.27	0.16 J1	0.46	0.56	0.32	0.28 J1	0.27	0.20 J1	0.59	0.31	0.23	0.18 J1
Cobalt	µg/L	0.272	0.269	--	0.065	0.046	1.28	0.908	1.09	0.458	0.067	0.065	1.26	0.947	1.12	0.108	1.50	1.44
Combined Radium	pCi/L	0.79	0.39	--	1.18	1.37	1.86	1.99	1.24	1.43	1.58	1.04	1.94	1.53	1.98	1.06	1.34	0.45
Fluoride	mg/L	0.88	--	0.90	0.20	0.20	0.21	0.20	0.57	0.56	0.17	0.17	0.21	0.20	0.50	0.53	0.33	0.32
Lead	µg/L	0.2 U1	0.2 U1	--	0.2 U1	0.2 U1	0.13 J1	0.2 U1	0.36	0.13 J1	0.2 U1	0.2 U1	0.06 J1	0.2 U1	0.19 J1	0.2 U1	0.09 J1	0.2 U1
Lithium	mg/L	0.0118	0.0110	--	0.00156	0.0015	0.00528	0.0046	0.0109	0.0092	0.00055	0.0003 U1	0.00313	0.0031	0.00884	0.0079	0.00682	0.0058
Mercury	µg/L	0.005 U1	0.005 U1	--	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1
Molybdenum	µg/L	3.6	3.3	--	1.9	1.8	1.3	1.1	1.8	1.5	1.7	1.7	1.3	1.1	1.4	1.4	1.3	1.3
Selenium	µg/L	0.09 J1	0.11 J1	--	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.07 J1	0.5 U1	0.5 U1	0.5 U1	0.5 U1	1.53	2.37	0.5 U1	0.5 U1
Sulfate	mg/L	136	--	128	41.1	40.6	109	102	174	163	37.9	40.1	41.8	44.3	38.4	32.6	39.5	38.3
Thallium	µg/L	0.2 U1	0.02 J1	--	0.2 U1	0.2 U1	0.2 U1	0.02 J1	0.06 J1	0.03 J1	0.2 U1	0.2 U1	0.2 U1	0.03 J1	0.2 U1	0.2 U1	0.2 U1	0.2 U1
Total Dissolved Solids	mg/L	540	--	520	350	350	450	450	580	560	390	370	310	310	380	350	350	350
pH	SU	7.49	7.36	7.39	7.2	6.75	7.3	6.63	7.09	6.52	7.12	7.13	7.31	7.16	7.12	6.86	7.67	7.08

Table 1. Groundwater Data Summary
Statistical Analysis Summary
Rockport Plant - East and West Bottom Ash Ponds

Parameter	Unit	MW-1701I			MW-1701S	MW-1701S		MW-1702D			MW-1702I	MW-1702I		MW-1702S		
		2/8/2023	6/1/2023	6/5/2023	2/8/2023	6/1/2023	8/16/2023	2/7/2023	6/1/2023	6/5/2023	2/7/2023	6/1/2023	6/6/2023	2/8/2023	6/1/2023	6/6/2023
Antimony	µg/L	0.05 J1	0.031 J1	--	0.02 J1	0.051 J1	--	0.05 J1	0.077 J1	--	0.07 J1	0.089 J1	--	0.03 J1	0.023 J1	--
Arsenic	µg/L	11.5	9.26	--	0.39	0.35	--	36.9	26.2	--	61.0	76.1	--	0.28	0.26	--
Barium	µg/L	38.7	36.5	--	8.17	11.3	--	197	187	--	108	106	--	3.97	3.89	--
Beryllium	µg/L	0.05 U1	0.05 U1	--	0.05 U1	0.05 U1	--	0.05 U1	0.011 J1	--	0.05 U1	0.05 U1	--	0.05 U1	0.05 U1	--
Boron	mg/L	0.018 J1	0.016 J1	--	0.015 J1	0.013 J1	--	0.017 J1	0.017 J1	--	0.017 J1	0.014 J1	--	0.031 J1	0.023 J1	--
Cadmium	µg/L	0.009 J1	0.005 J1	--	0.011 J1	0.008 J1	--	0.023	0.074	--	0.021	0.013 J1	--	0.021	0.020	--
Calcium	mg/L	64.8	61.1 M1	--	57.6	53.9	--	72.0	71.4	--	66.7	67.0	--	34.6	35.6 M1	--
Chloride	mg/L	14.6	--	14.6	20.9	--	22.4	30.9	--	30.3	27.5	--	28.6	14.5	14.7	12.6
Chromium	µg/L	0.25	0.25 J1	--	0.25	0.20 J1	--	0.29	0.32	--	0.28	0.19 J1	--	0.32	0.25 J1	--
Cobalt	µg/L	1.07	0.980	--	0.074	0.089	--	0.671	0.587	--	1.84	1.52	--	0.028	0.020	--
Combined Radium	pCi/L	0.67	0.92	--	0.75	0.48	--	0.97	0.93	--	1.36	1.22	--	0.78	0.26	--
Fluoride	mg/L	0.43	--	0.43	0.37	--	0.36	0.19	--	0.18	0.23		0.23	0.59	0.54	0.68
Lead	µg/L	0.15 J1	0.07 J1	--	0.25	0.2 U1	--	0.22	0.28	--	0.2 U1	0.08 J1	--	0.2 U1	0.2 U1	--
Lithium	mg/L	0.00582	0.0054	--	0.00517	0.0048	--	0.00443	0.0041	--	0.00451	0.0041	--	0.00175	0.0015	--
Mercury	µg/L	0.005 U1	0.005 U1	--	0.005 U1	0.005 U1	--	0.005 U1	0.005 U1	--	0.005 U1	0.005 U1	--	0.005 U1	0.005 U1	--
Molybdenum	µg/L	1.1	1.1	--	0.7	0.7	--	1.9	1.9	--	1.9	1.9	--	1.5	1.5	--
Selenium	µg/L	0.5 U1	0.5 U1	--	0.46 J1	0.38 J1	--	0.5 U1	0.14 J1	--	0.5 U1	0.06 J1	--	4.37	3.87	--
Sulfate	mg/L	33.6	--	34.0	15.6	--	16.6	38.3	--	45.9	42.9	--	43.0	20.7	20.7	17.6
Thallium	µg/L	0.2 U1	0.2 U1	--	0.2 U1	0.2 U1	--	0.2 U1	0.2 U1	--	0.2 U1	0.03 J1	--	0.2 U1	0.2 U1	--
Total Dissolved Solids	mg/L	320	--	330	330	--	330	390	--	400	390	--	360	270	280	260
pH	SU	7.67	7.22	7.1	7.82	7.24	7.18	7.4	5.65	7.3	7.49	7.17	6.79	7.45	7.25	7.45

Notes:
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: picocuries per liter
SU: standard unit
J1: Estimated value. Parameter was detected in concentrations below the reporting limit.
M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.
S7: Sample did not achieve constant weight.
U1: Non-detect value. For statistical analysis, parameters which were not detected were replaced with the reporting limit.
--: not measured

Table 2. Appendix IV Groundwater Protection Standards
Statistical Analysis Summary
Rockport Plant - East and West Bottom Ash Ponds

Constituent Name	MCL	CCR Rule-Specified	Calculated UTL	GWPS
Antimony, Total (mg/L)	0.00600		0.000440	0.00600
Arsenic, Total (mg/L)	0.0100		0.0791	0.0791
Barium, Total (mg/L)	2.00		0.997	2.00
Beryllium, Total (mg/L)	0.00400		0.000106	0.00400
Cadmium, Total (mg/L)	0.00500		0.000280	0.00500
Chromium, Total (mg/L)	0.100		0.00413	0.100
Cobalt, Total (mg/L)	n/a	0.00600	0.00995	0.00995
Combined Radium, Total (pCi/L)	5.00		2.86	5.00
Fluoride, Total (mg/L)	4.00		0.700	4.00
Lead, Total (mg/L)	0.0150		0.00497	0.0150
Lithium, Total (mg/L)	n/a	0.0400	0.0380	0.0400
Mercury, Total (mg/L)	0.00200		0.00000500	0.00200
Molybdenum, Total (mg/L)	n/a	0.100	0.00867	0.100
Selenium, Total (mg/L)	0.0500		0.00380	0.0500
Thallium, Total (mg/L)	0.00200		0.0510	0.0510

Notes:
1. Calculated UTL (Upper Tolerance Limit) represents site-specific background values.
2. Grey cells indicate the GWPS is based on the calculated UTL, which is higher than the MCL or CCR Rule-specified value.
CCR: coal combustion residuals
GWPS: groundwater protection standard
MCL: maximum contaminant level
mg/L: milligrams per liter
pCi/L: picocuries per liter

Table 3. Appendix III Data Summary
Statistical Analysis Summary
Rockport - East and West Bottom Ash Ponds

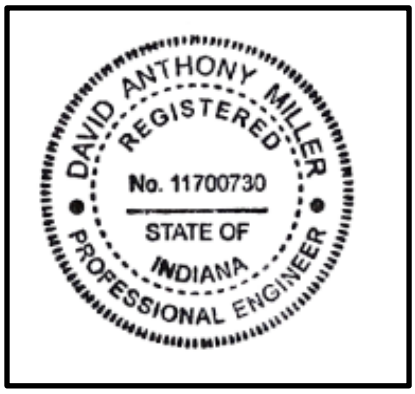
Analyte	Unit	Description	MW-1002	MW-1602D	MW-1602I	MW-1603D	MW-1603I	MW-1603S	MW-1604D	MW-1604I	MW-1604S	MW-1605D	MW-1605I	MW-1605S	MW-1606D	MW-1606I	MW-1606S
			5/31/2023	5/31/2023	5/31/2023	5/31/2023*	5/31/2023	5/31/2023	5/31/2023	5/31/2023*	5/31/2023*	5/30/2023	5/30/2023	5/30/2023	5/30/2023	5/30/2023	5/30/2023
Boron	mg/L	Interwell Background Value (UPL)	0.208														
		Analytical Result	**1.63**	0.046	0.040	0.027	0.041	**1.20**	0.01	0.102	**0.672**	0.016	0.069	**0.499**	0.017	0.013	0.020
Calcium	mg/L	Intrawell Background Value (UPL)	85.6	82.9	90.9	97.2	105	85.0	77.6	89.2	118	97.0	107	91.4	91.2	91.9	76.1
		Analytical Result	49.8	62.0	**102**	80.4	60.8	32.6	59.1	56.7	76.1	69.5	60.6	53.5	77.4	55.9	39.6
Chloride	mg/L	Interwell Background Value (UPL)	46.4														
		Analytical Result	30.1	**66.7**	24.1	28.4	31.6	37.7	15.2	38.4	**55.7**	24.5	32.4	**47.1**	26.3	17.4	22.5
Fluoride	mg/L	Interwell Background Value (UPL)	0.700														
		Analytical Result	**1.21**	0.31	0.24	0.27	0.39	**1.37**	0.25	0.35	**0.90**	0.20	0.20	0.56	0.17	0.20	0.53
pH	SU	Intrawell Background Value (UPL)	8.0	8.2	7.9	7.9	8.1	7.7	7.8	8.1	8.2	7.5	7.6	7.6	8.4	8.5	7.9
		Intrawell Background Value (LPL)	5.6	6.3	6.6	6.3	6.6	6.2	6.4	6.6	6.6	6.7	6.7	6.6	6.9	6.3	6.7
		Analytical Result	7.3	7.3	7.3	6.8	**5.8**	**5.4**	7.2	7.2	7.4	6.8	**6.6**	**6.5**	7.1	7.2	6.9
Sulfate	mg/L	Interwell Background Value (UPL)	76.0														
		Analytical Result	**205**	22.3	**235**	37.2	75.2	**176**	18.4	**95.7**	**128**	40.6	**102**	**163**	40.1	44.3	32.6
Total Dissolved Solids	mg/L	Interwell Background Value (UPL)	449														
		Analytical Result	**560**	**450**	**620**	370	**460**	**450**	330	420	**520**	350	**450**	**560**	370	310	350

Notes:
1. Bold values exceed the background value.
2. Background values are shaded gray.
*MW-1603D, MW-1604I, and MW-1604S were resampled on 6/6/2023 for anions and total dissolved solids.
LPL: lower prediction limit
mg/L: milligrams per liter
SU: standard units
UPL: upper prediction limit

ATTACHMENT A
Certification by Qualified Professional Engineer

Certification by Qualified Professional Engineer

I certify that selected and above described statistical method is appropriate for evaluating the groundwater monitoring data for the Rockport Bottom Ash Pond CCR management area and that the requirements of 40 CFR 257.93(f) have been met.



David Anthony Miller

Printed Name of Licensed Professional Engineer

David Anthony Miller

Signature

11700730	Indiana	11.15.2023
License Number	Licensing State	Date

ATTACHMENT B
Statistical Analysis Output

GROUNDWATER STATS CONSULTING

November 1, 2023

Geosyntec Consultants
Attn: Ms. Allison Kreinberg
500 W. Wilson Bridge, Ste. #250
Worthington, OH 43085

Re: Rockport Bottom Ash Pond
February & May/June 2023 Assessment Monitoring Analysis

Dear Ms. Kreinberg,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical evaluation of groundwater data for the February and May/June 2023 Assessment Monitoring events at American Electric Power Inc.'s Rockport Bottom Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at the site for the Coal Combustion Residuals (CCR) program in 2016. The monitoring well network, as provided by Geosyntec Consultants, consists of the following:

- **Upgradient wells:** MW-1600D, MW-1600I, MW-1600S, MW-1601D, MW-1601I, MW-1601S; MW-1701S, MW-1702D, MW-1702I, MW-1702S, MW-1701D, and MW-1701I
- **Downgradient wells:** MW-1002, MW-1602D, MW-1602I, MW-1603D, MW-1603I, MW-1603S, MW-1604D, MW-1604I, MW-1604S, MW-1605D, MW-1605I, MW-1605S, MW-1606D, MW-1606I, and MW-1606S

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting. The statistical analysis was conducted according to the January 2018 screening evaluation prepared by GSC and approved by Dr. Kirk Cameron.

The CCR program consists of the following constituents:

- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at both upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs.

Due to varying detection limits in background data sets resulting from improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects. In some cases, the reporting limit provided by the laboratory contained varying limits for a given parameter; therefore, the substitution may differ from well to well. This generally gives the most conservative limit in each case. However, for the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

Summary of Background Update – Conducted in January 2023

During the November 2022 sample event, proposed background data from upgradient wells were screened as described below prior to construction of upper tolerance limits for Appendix IV constituents. These limits are compared to the Maximum Contaminant Levels (MCLs) for the purpose of establishing Groundwater Protection Standards (GWPS) which are updated annually.

Outlier Analysis

Background (upgradient) data through November 2022 were screened with visual screening and Tukey's outlier test for any new potential outliers or extreme trending patterns for Appendix IV parameters that would lead to artificially elevated statistical limits. The values identified by Tukey's test, with the exception of one high combined radium 226 + 228 value of 7.25 pCi/L which was previously flagged, were either similar to concentrations upgradient of the facility or were lower than the respective Maximum

Contaminant Level (MCL); therefore, none of these values, except the aforementioned combined radium 226 + 228 value, were flagged as outliers.

Additionally, downgradient well data through November 2022 were screened through visual screening using time series graphs. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is particular justification for excluding them. No additional outliers among downgradient wells were flagged during this analysis. A discussion of outliers was included with the previous report and a list of flagged values follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV parameters through November 2022 (Figure D). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution and use a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

These background limits were compared to the MCLs as shown in the GWPS table following this letter to determine the highest limit for use as the GWPS in the confidence interval comparisons (Figure E). GWPS will be updated after data from the Fall 2023 sample event are available.

Evaluation of Appendix IV Parameters – February & May/June 2023

Time series plots were used to visually identify potential outliers in downgradient wells through the February and May/June 2023 sample events. When suspected outliers are identified, Tukey's outlier test may be used to formally test whether measurements are statistically significant. As mentioned above, high outliers are 'cautiously' flagged in the downgradient wells when measurements are clearly much different from remaining data within a given well. This is intended to be a regulatory conservative approach in that it will reduce the variance and thus reduce the width of parametric confidence intervals; although it will also reduce the mean and thus lower the entire interval. The intent is to

better represent the actual downgradient mean. No additional suspected outliers were identified.

Confidence Intervals

Confidence intervals were then constructed with data through May/June 2023 on downgradient wells for each of the Appendix IV parameters using the highest limit of the MCL, CCR-Rule specified levels, or background limit as the GWPS as discussed above (Figure F). When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the largest and smallest order statistics depending on the sample size as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available. No confidence interval exceedances were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Rockport Bottom Ash Pond. If you have any questions or comments, please feel free to contact us.

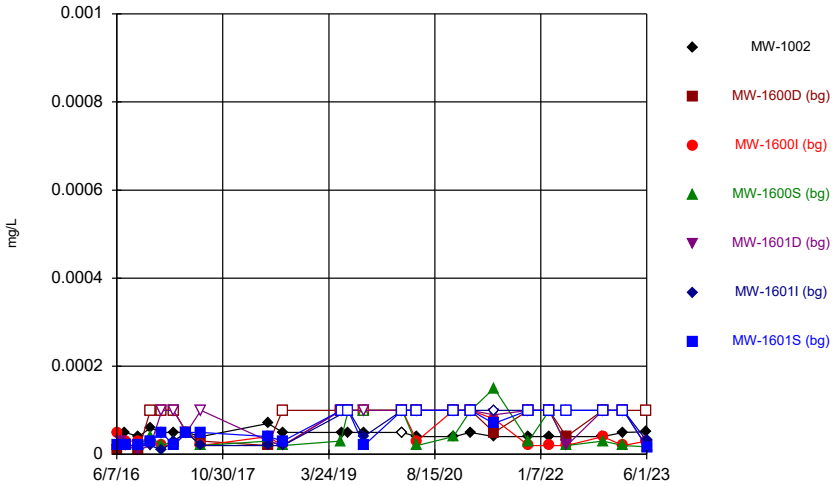
For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

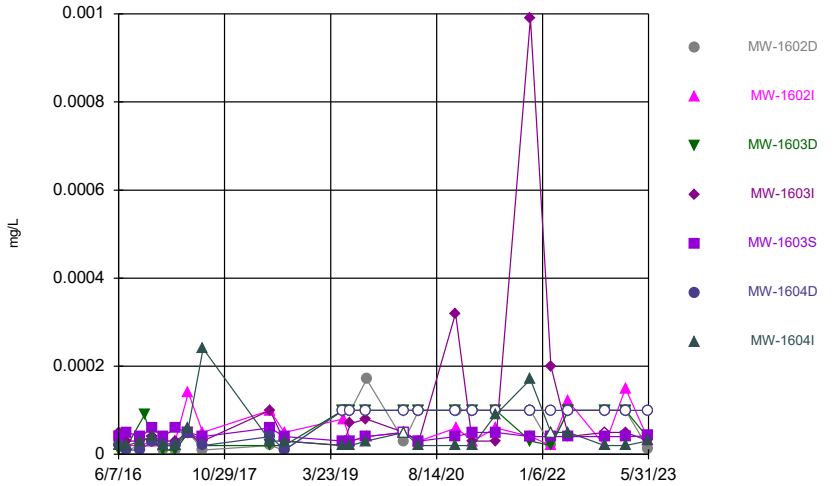
Time Series



Constituent: Antimony, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

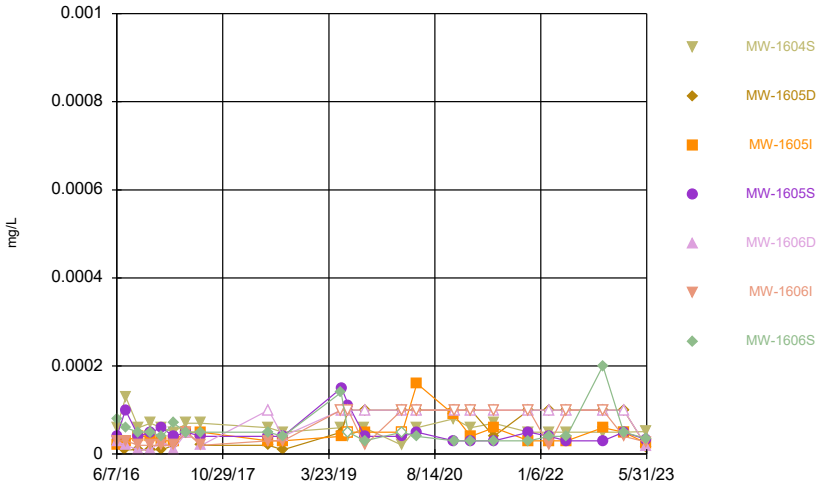
Time Series



Constituent: Antimony, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

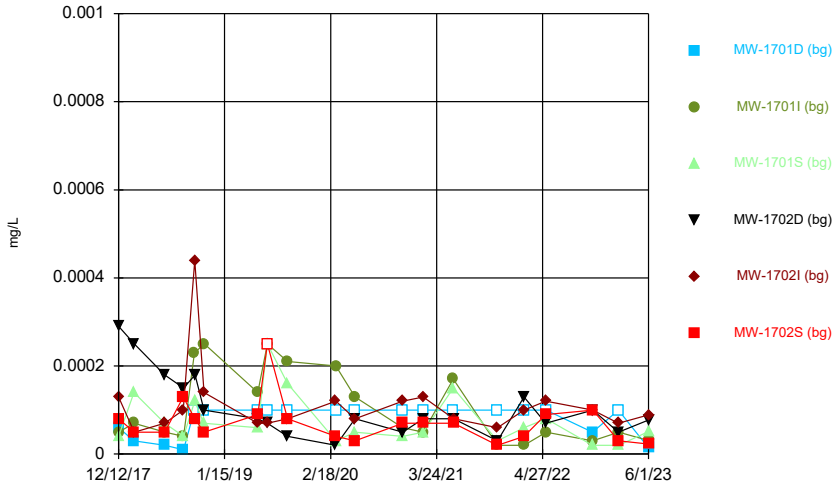
Time Series



Constituent: Antimony, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

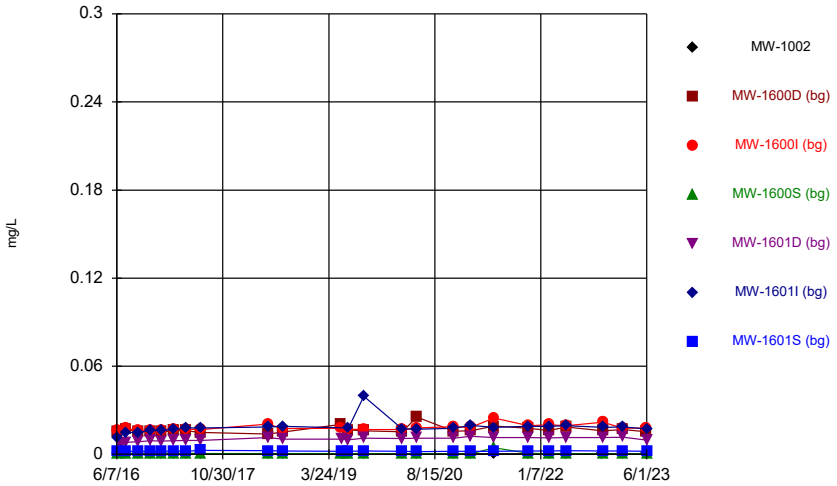
Time Series



Constituent: Antimony, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Time Series

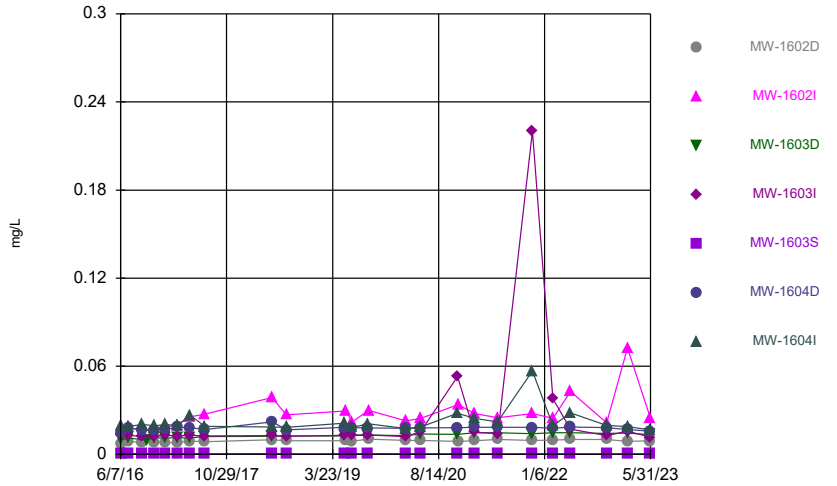


Constituent: Arsenic, total Analysis Run 10/31/2023 11:00 AM

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Time Series

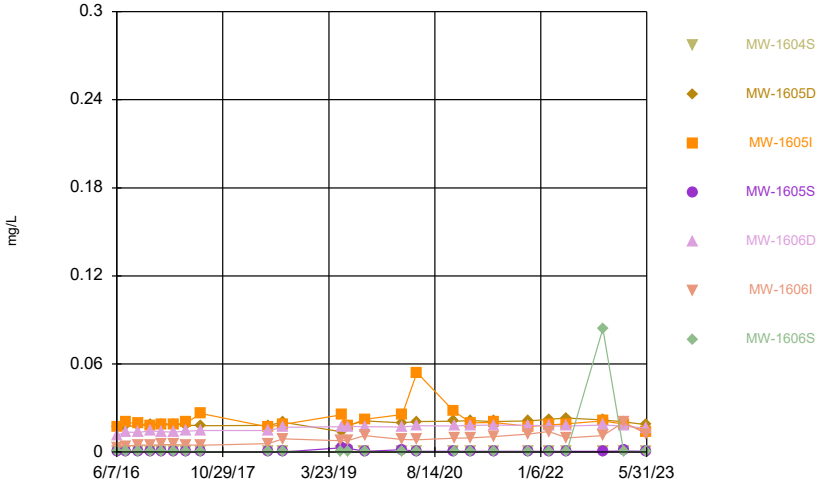


Constituent: Arsenic, total Analysis Run 10/31/2023 11:00 AM

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Time Series

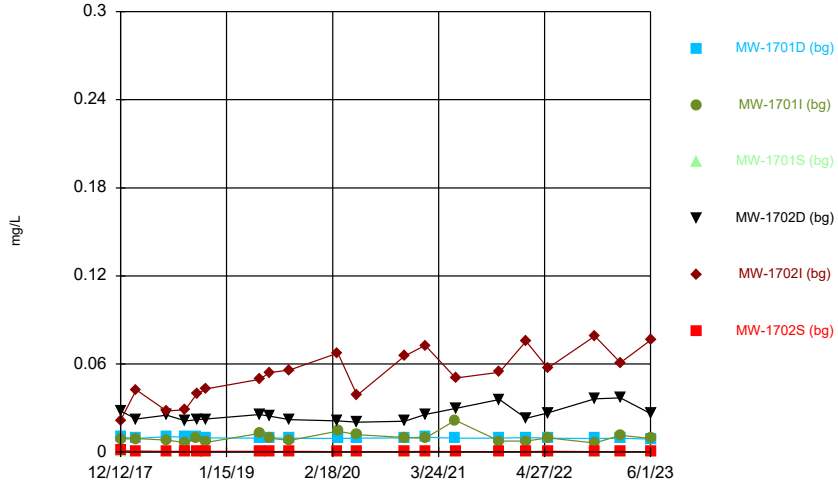


Constituent: Arsenic, total Analysis Run 10/31/2023 11:00 AM

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

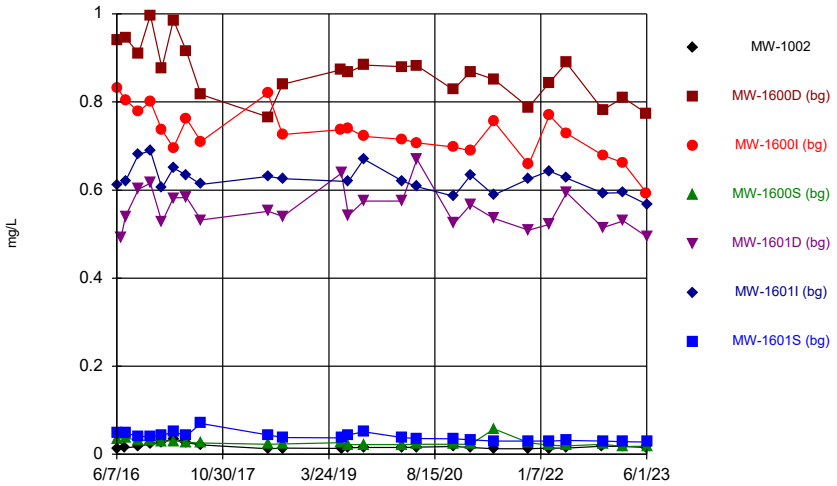
Time Series



Constituent: Arsenic, total Analysis Run 10/31/2023 11:00 AM

Rockport BAP Client: Geosyntec Data: Rockport_BAP

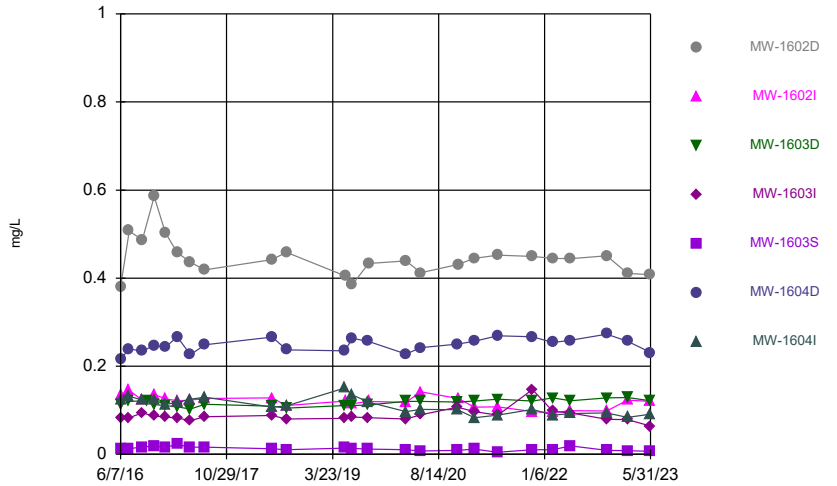
Time Series



Constituent: Barium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

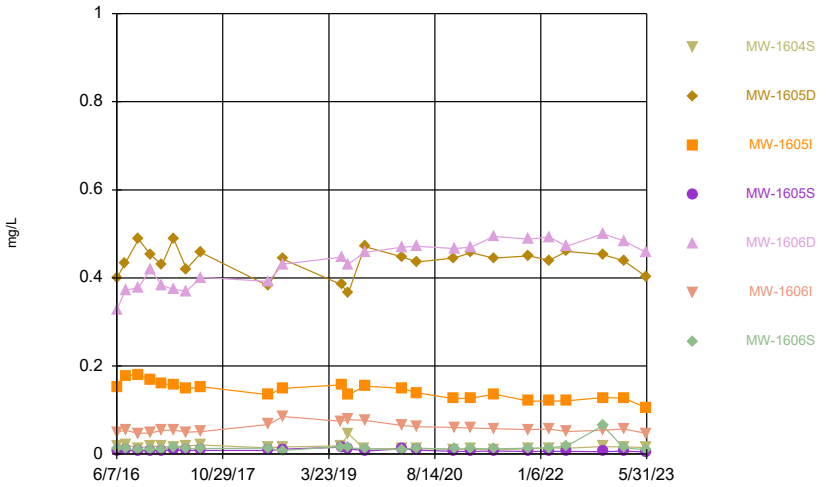
Time Series



Constituent: Barium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

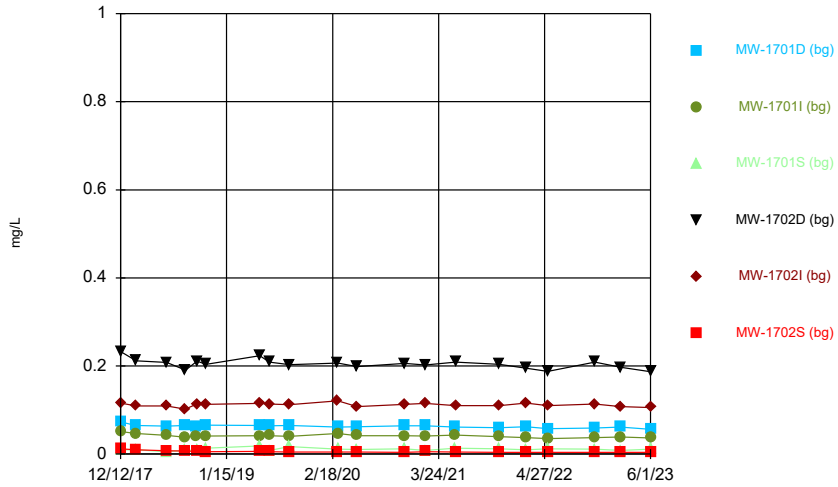
Time Series



Constituent: Barium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

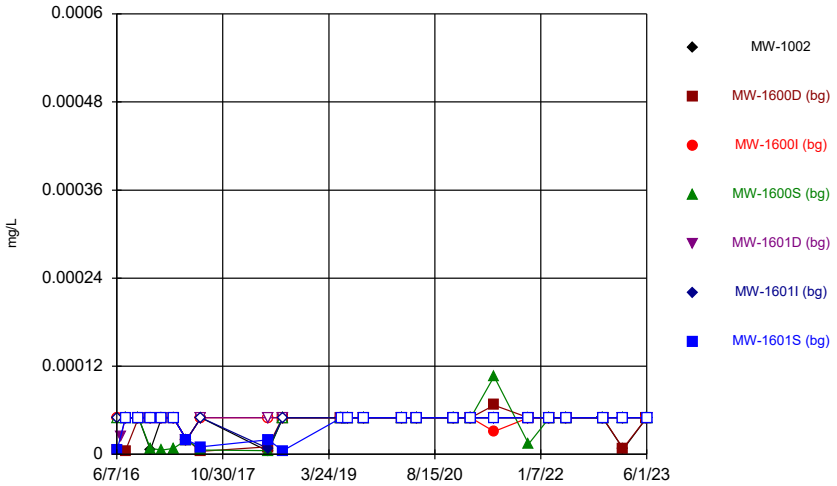
Time Series



Constituent: Barium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

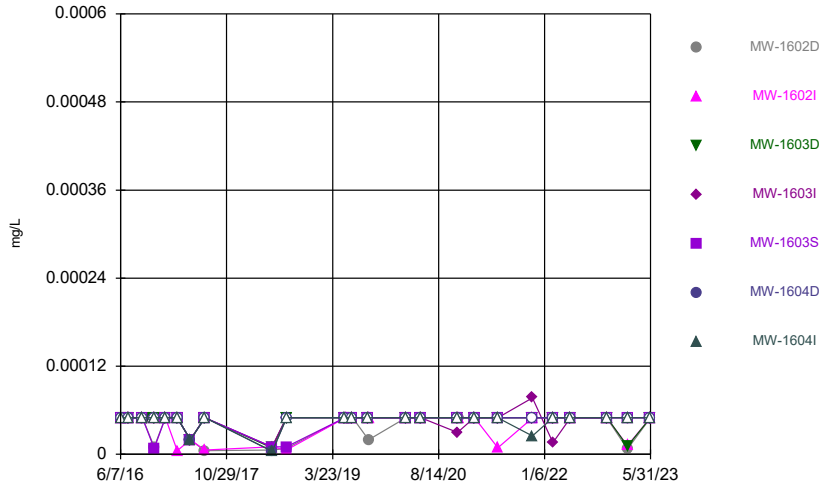
Time Series



Constituent: Beryllium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

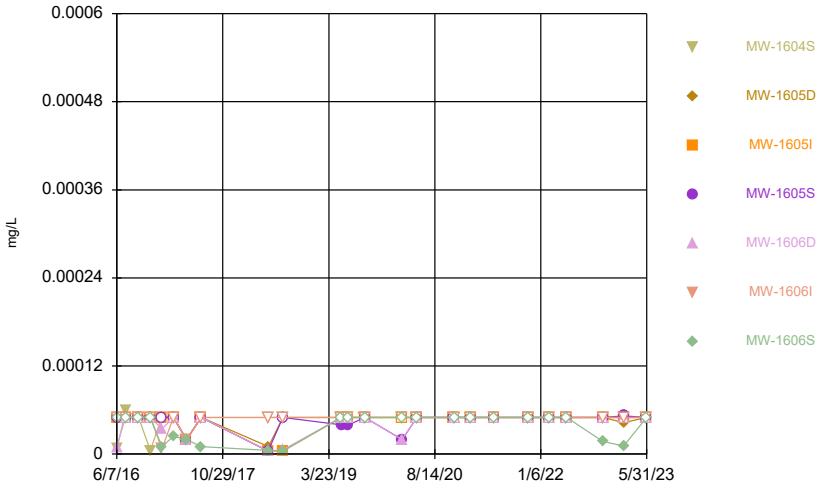
Time Series



Constituent: Beryllium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

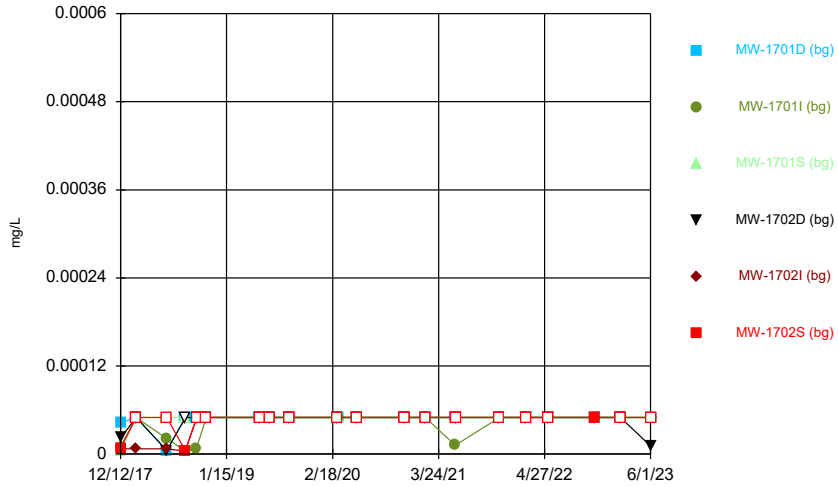
Time Series



Constituent: Beryllium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

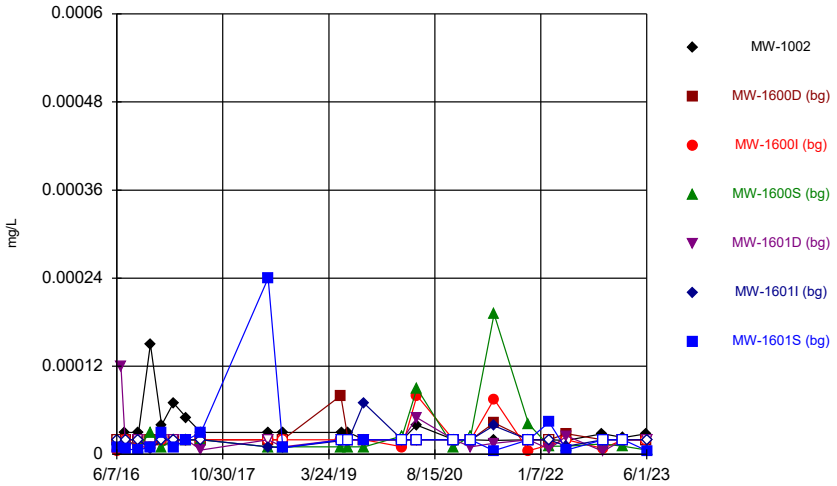
Time Series



Constituent: Beryllium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

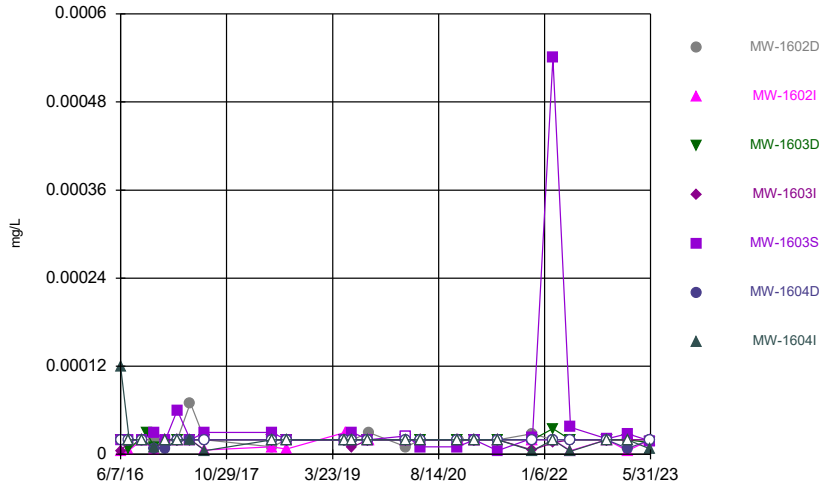
Time Series



Constituent: Cadmium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

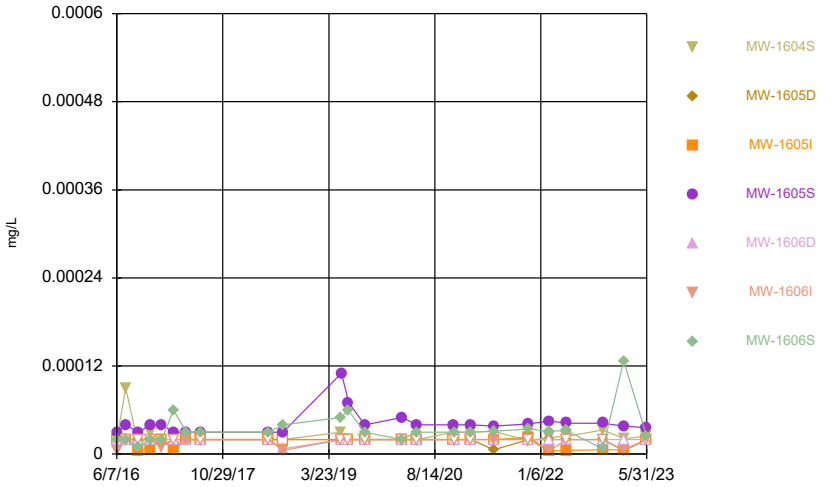
Time Series



Constituent: Cadmium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

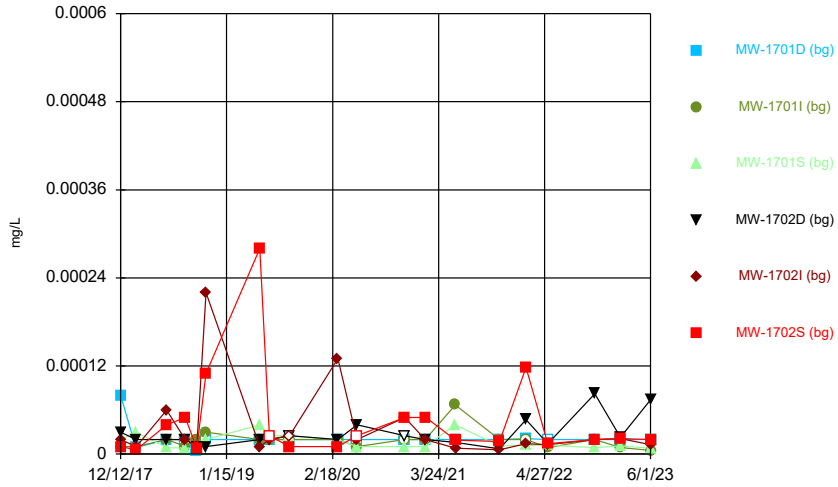
Time Series



Constituent: Cadmium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

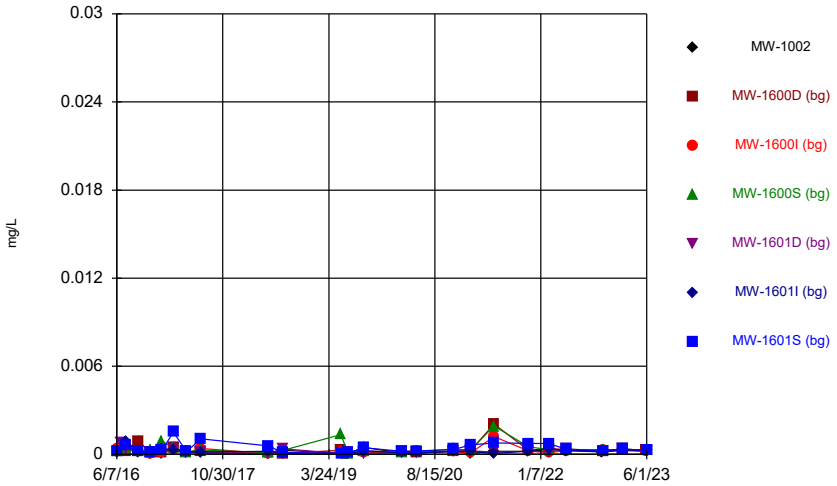
Time Series



Constituent: Cadmium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

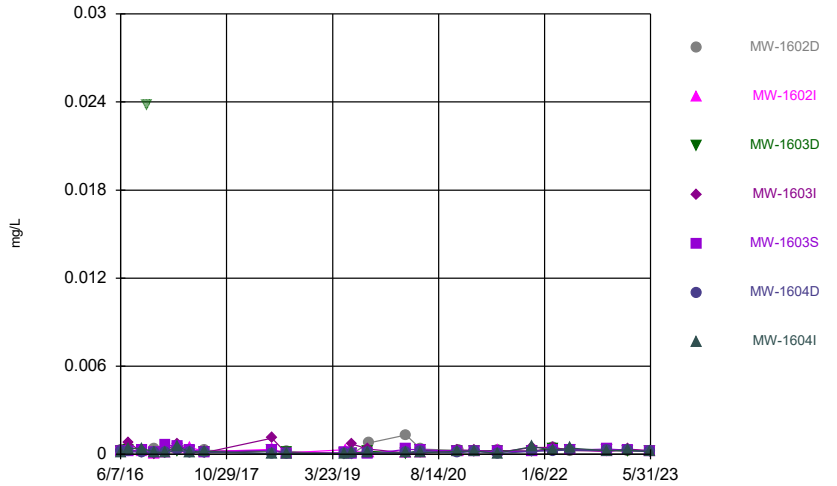
Time Series



Constituent: Chromium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

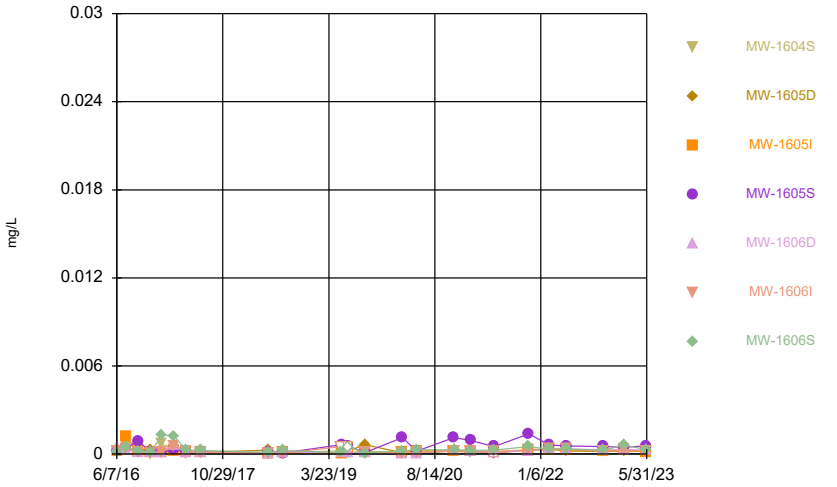
Time Series



Constituent: Chromium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

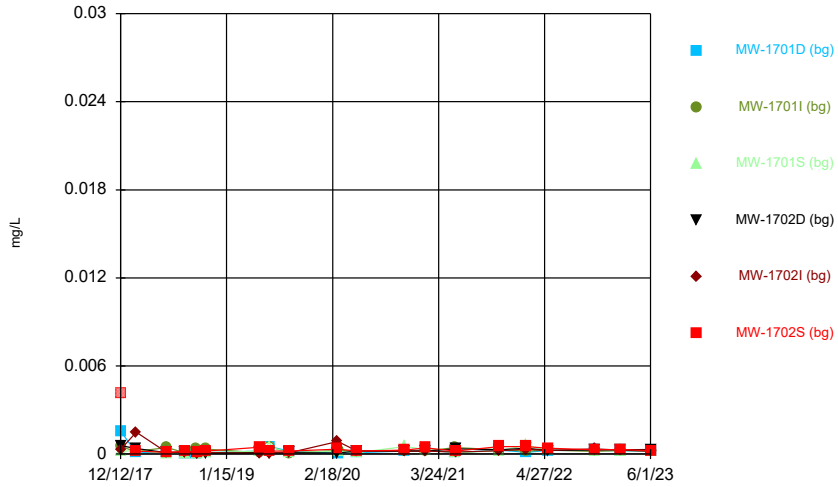
Time Series



Constituent: Chromium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

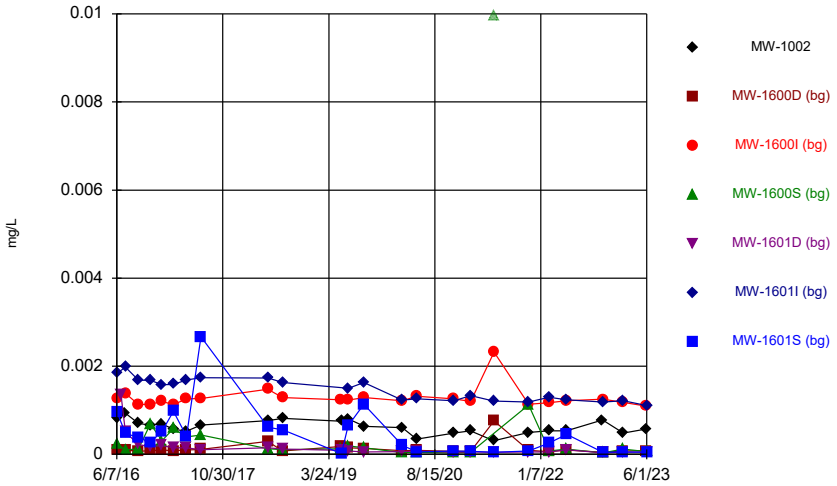
Time Series



Constituent: Chromium, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

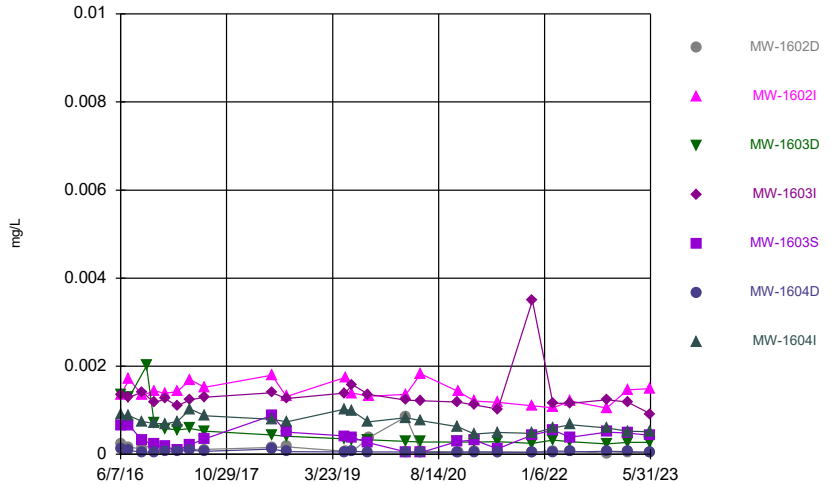
Time Series



Constituent: Cobalt, total Analysis Run 10/31/2023 11:00 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

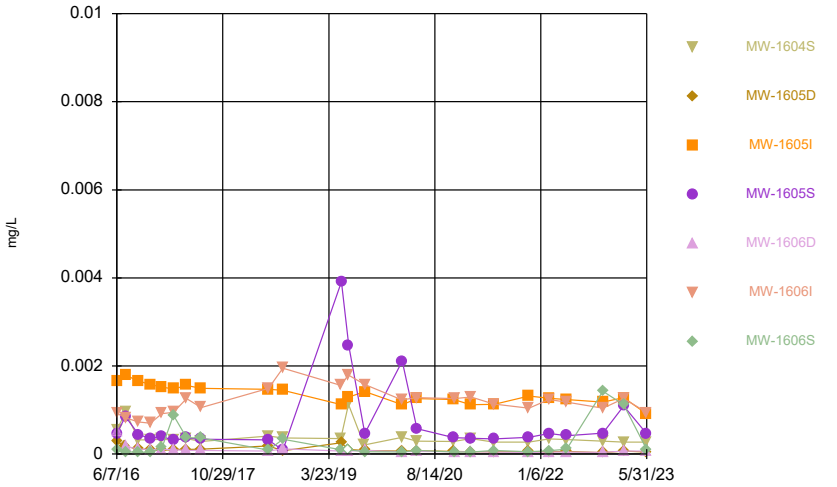
Time Series



Constituent: Cobalt, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

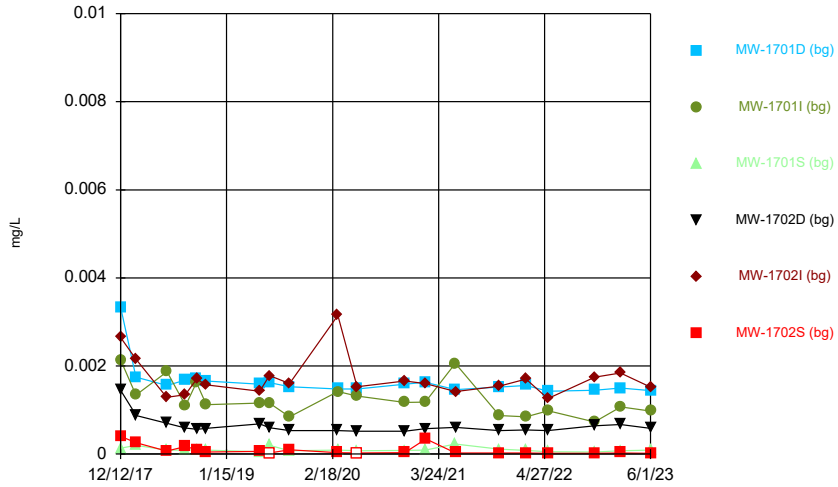
Time Series



Constituent: Cobalt, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

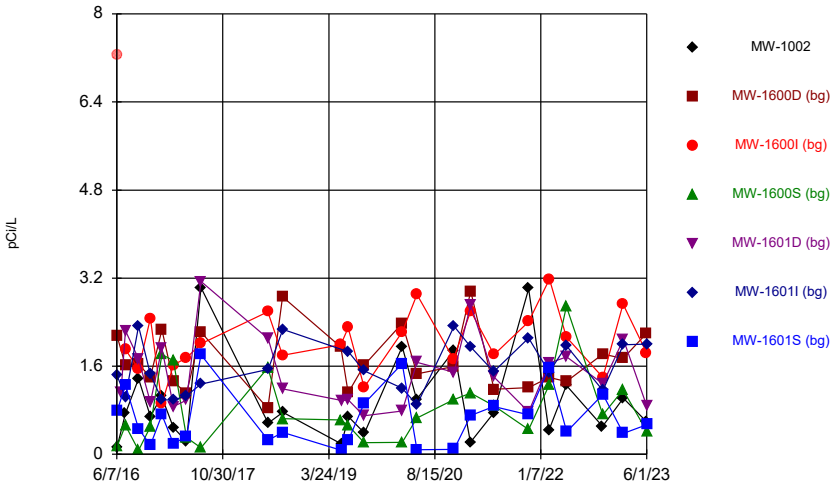
Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

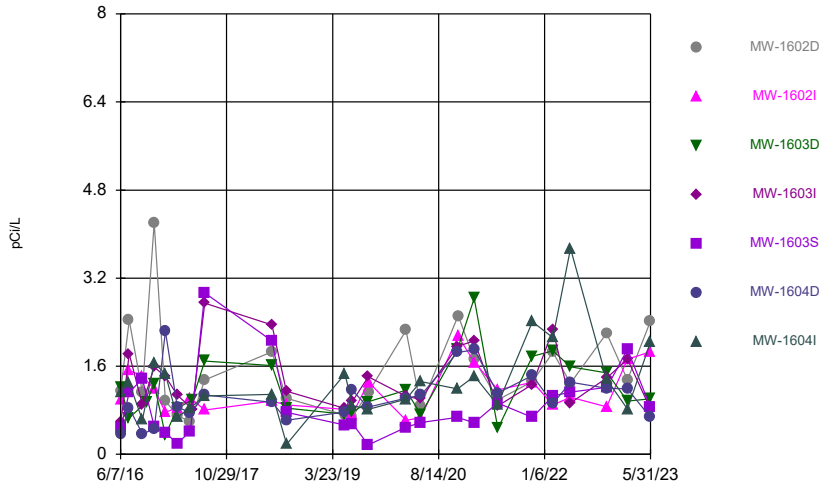
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

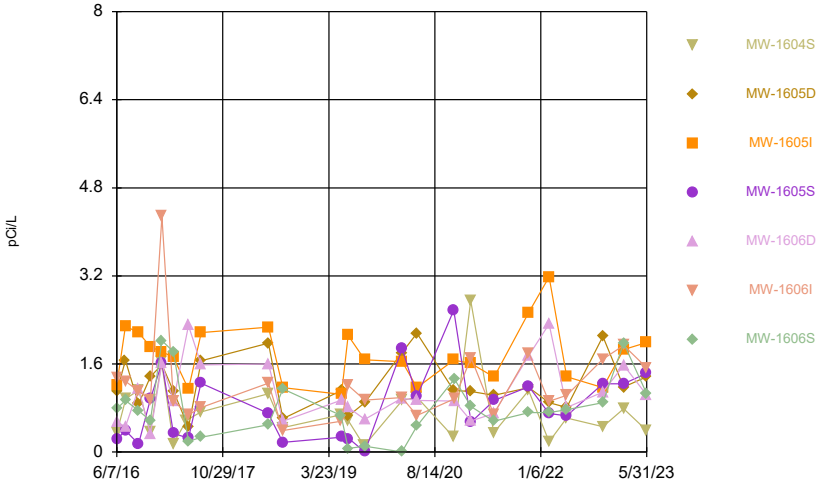
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

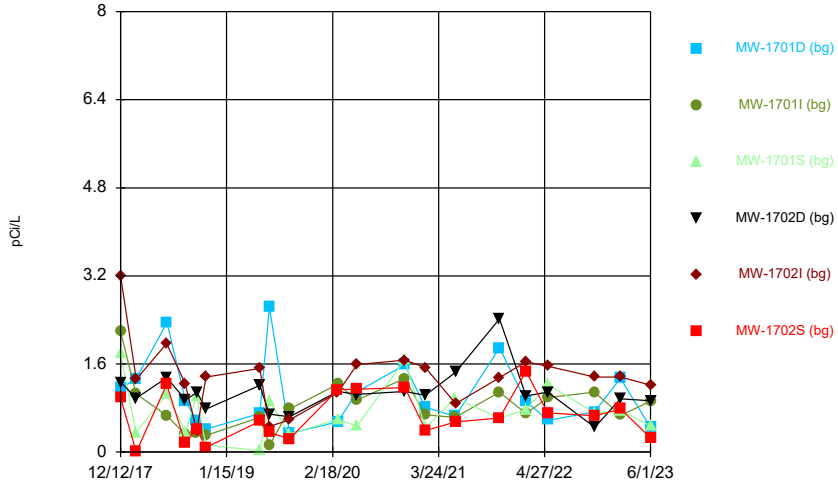
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

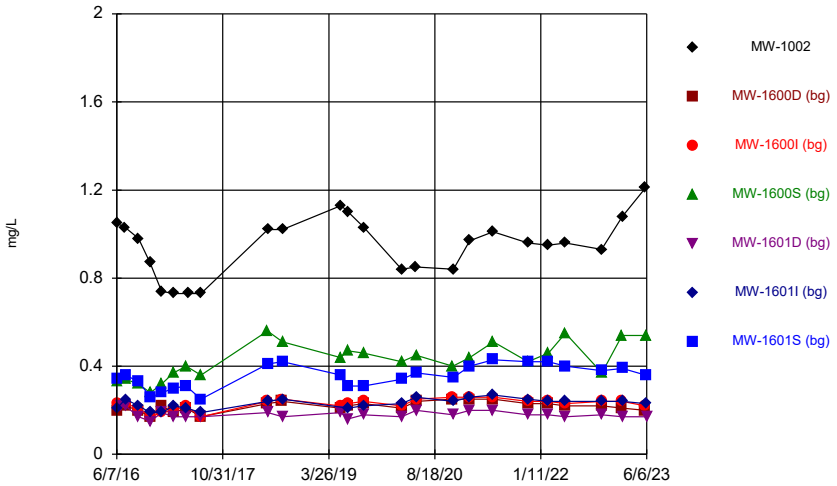
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

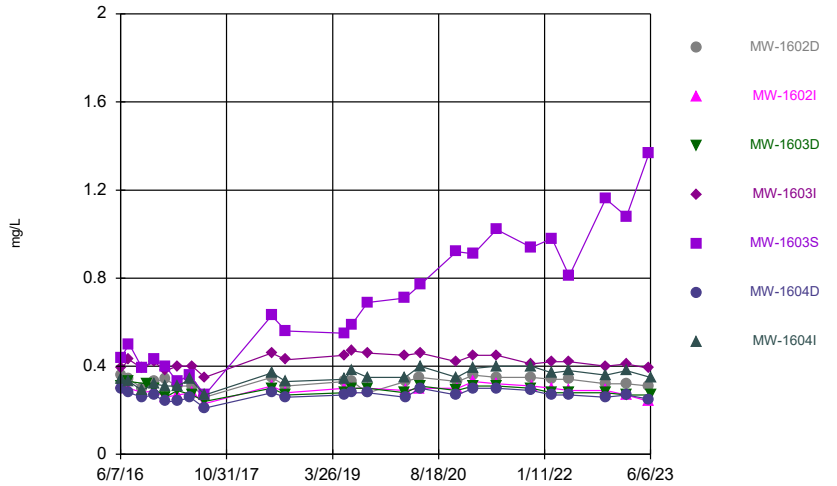
Time Series



Constituent: Fluoride, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

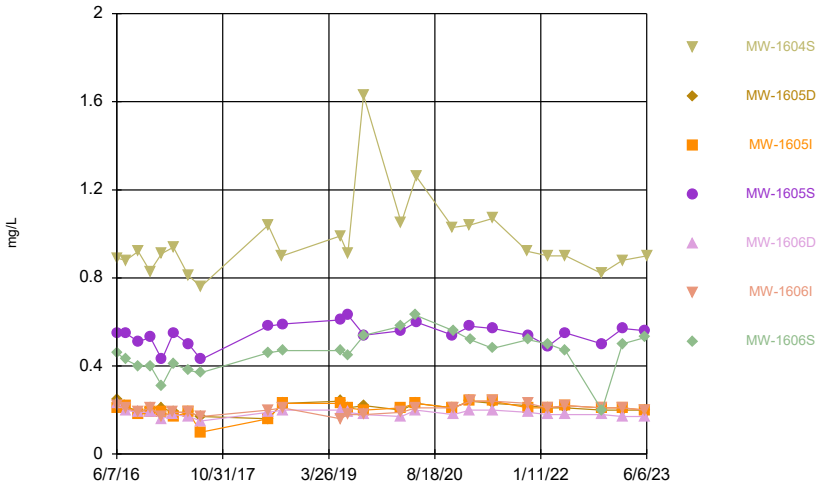
Time Series



Constituent: Fluoride, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

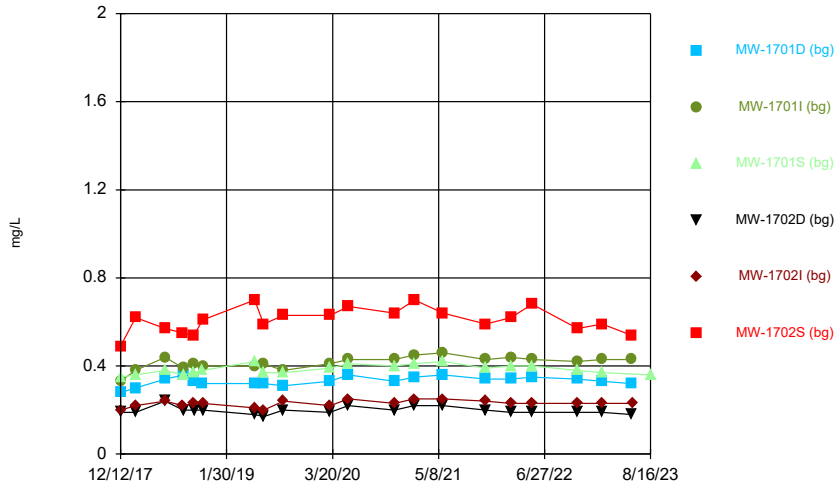
Time Series



Constituent: Fluoride, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

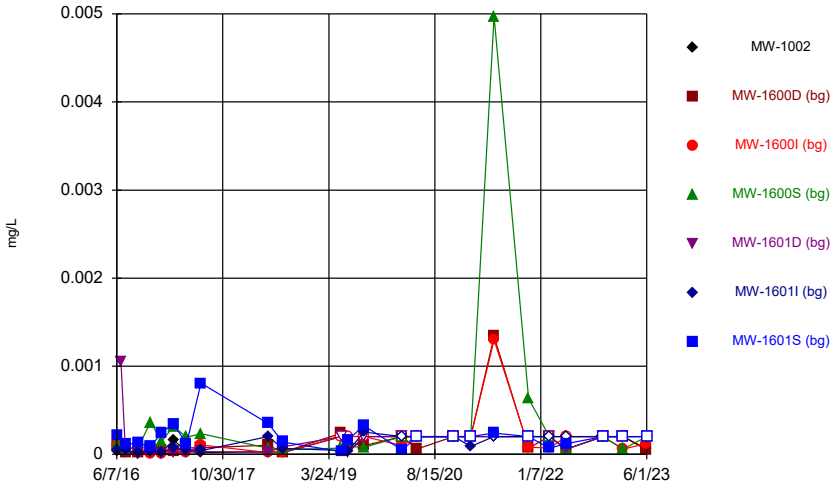
Time Series



Constituent: Fluoride, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

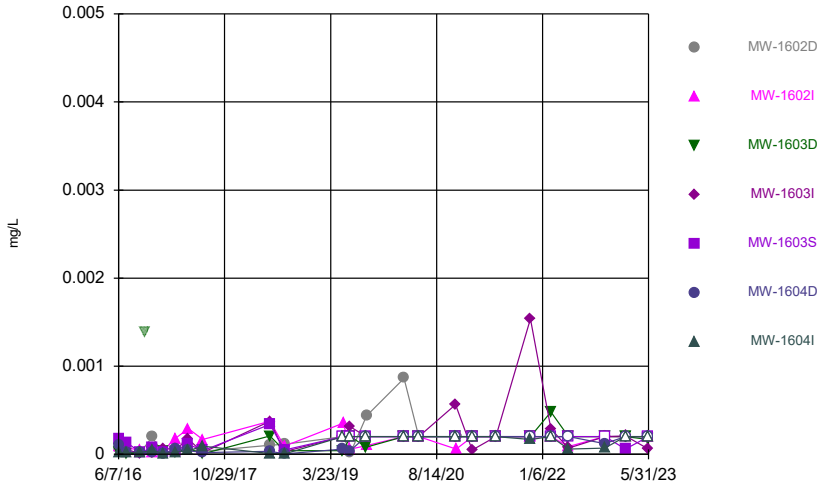
Time Series



Constituent: Lead, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

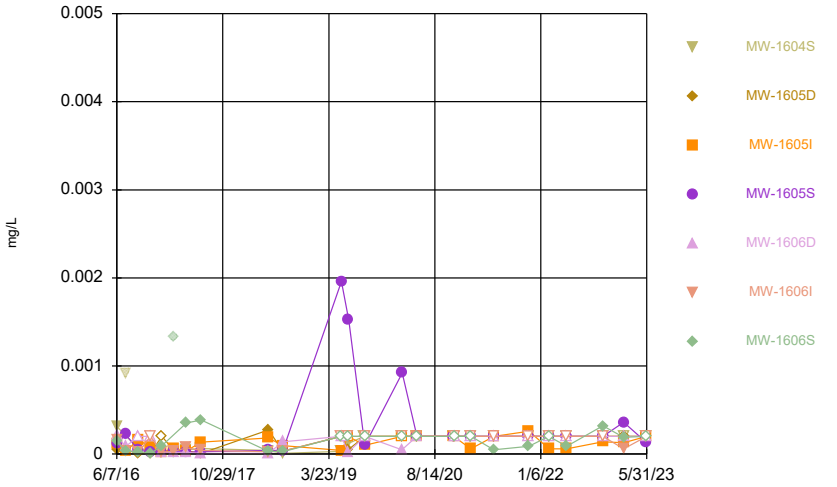
Time Series



Constituent: Lead, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

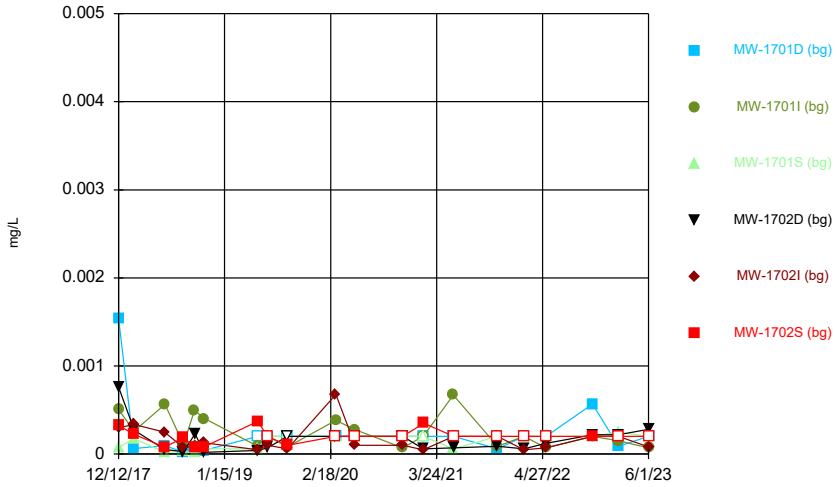
Time Series



Constituent: Lead, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

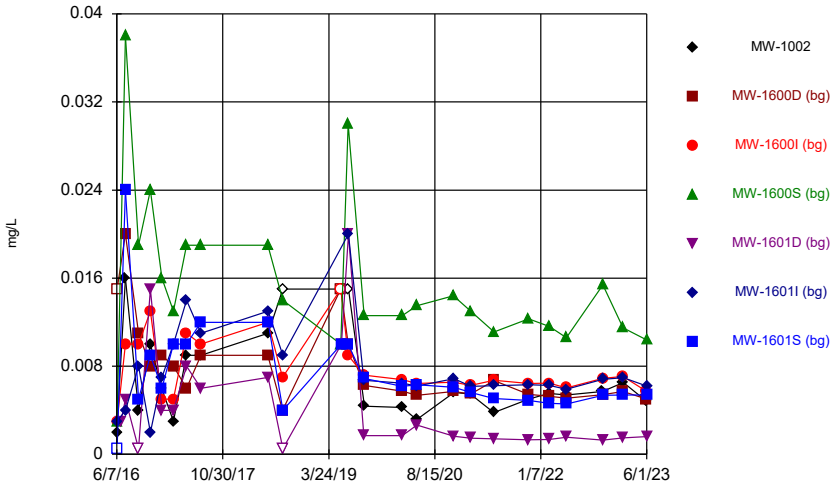
Time Series



Constituent: Lead, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

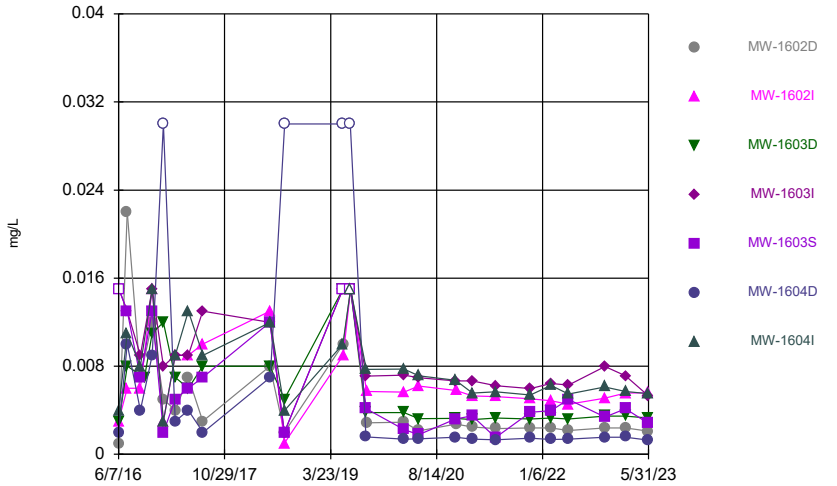
Time Series



Constituent: Lithium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

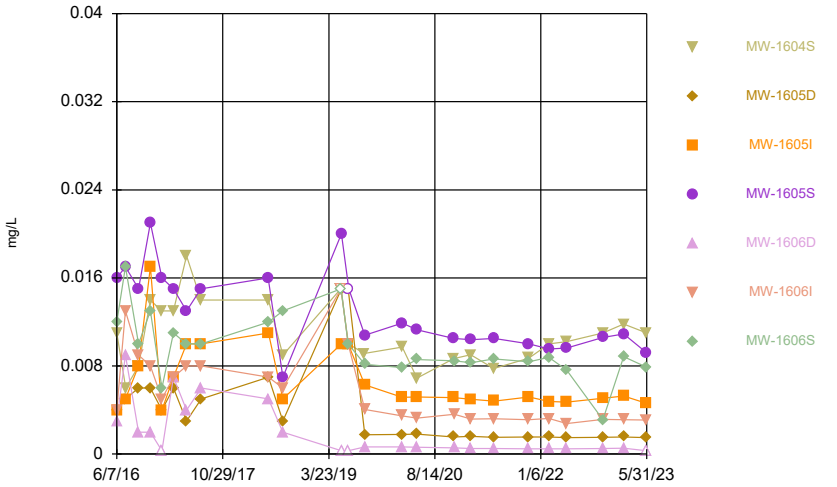
Time Series



Constituent: Lithium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

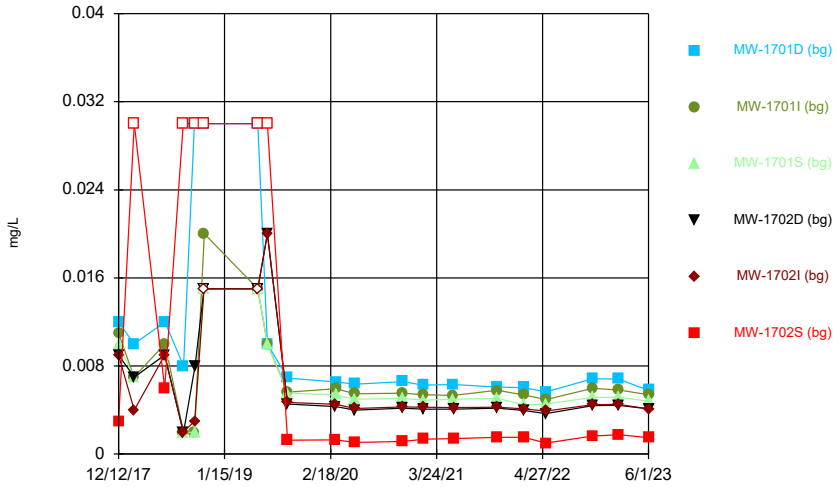
Time Series



Constituent: Lithium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

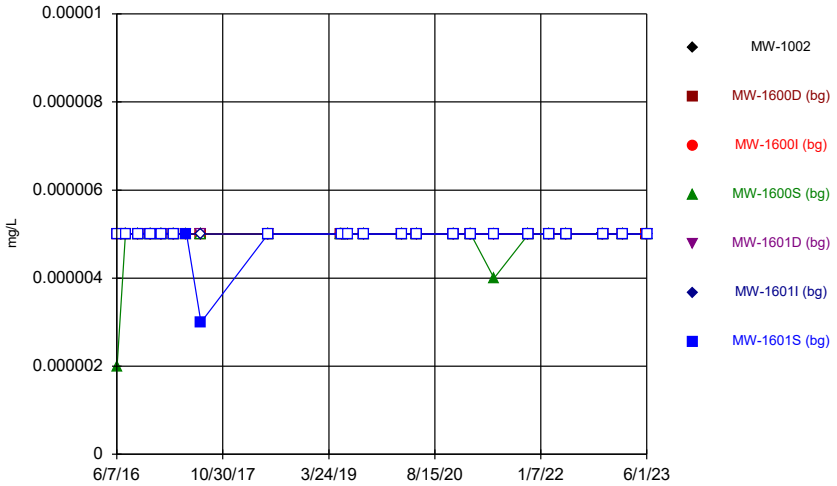
Time Series



Constituent: Lithium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

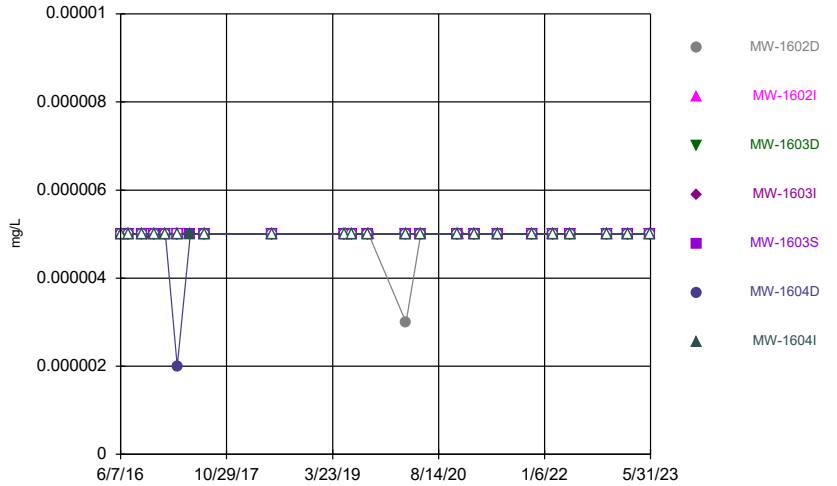
Time Series



Constituent: Mercury, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

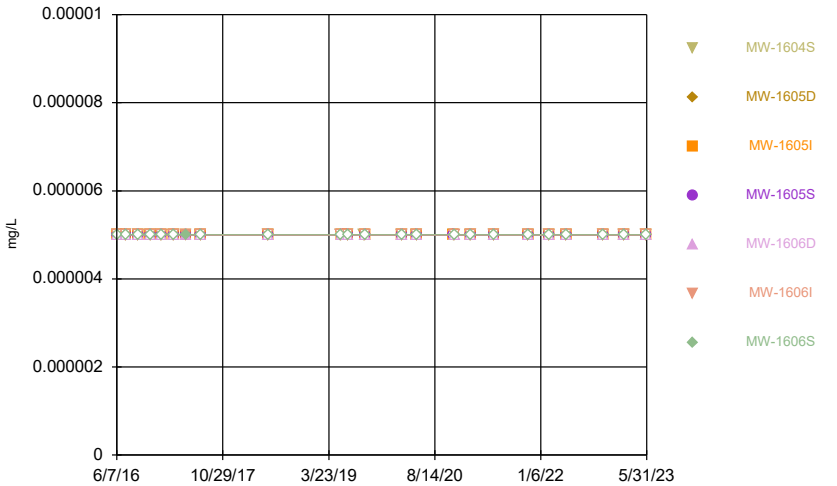
Time Series



Constituent: Mercury, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

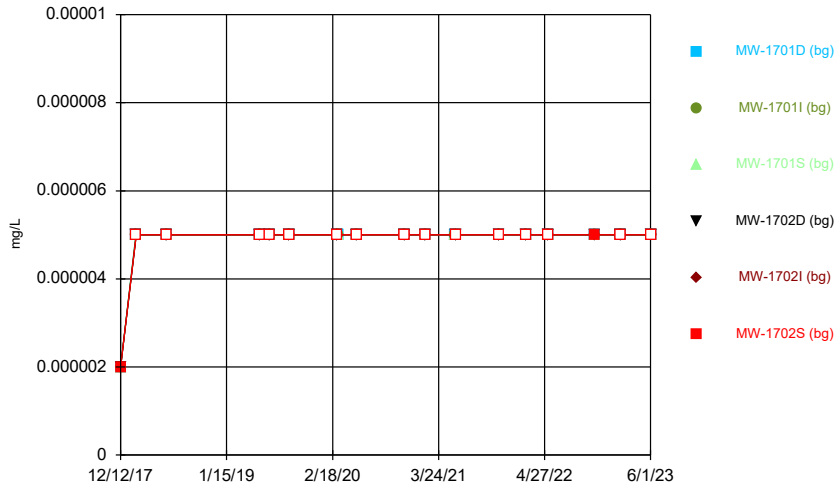
Time Series



Constituent: Mercury, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

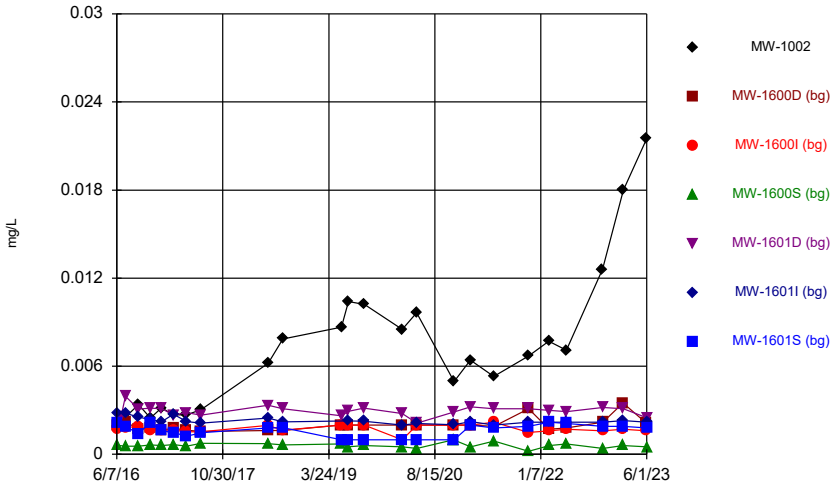
Time Series



Constituent: Mercury, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

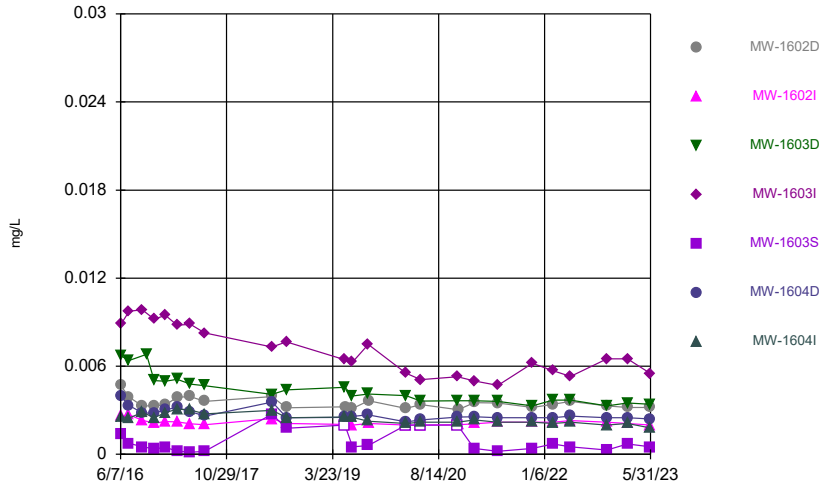
Time Series



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

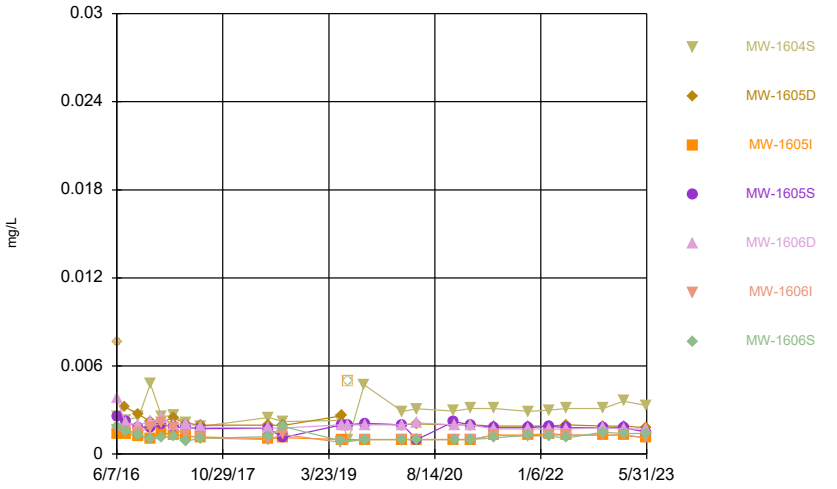
Time Series



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

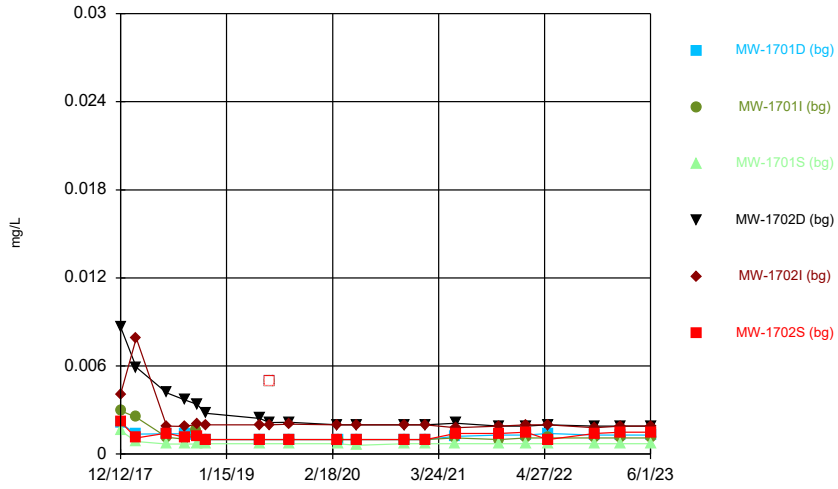
Time Series



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

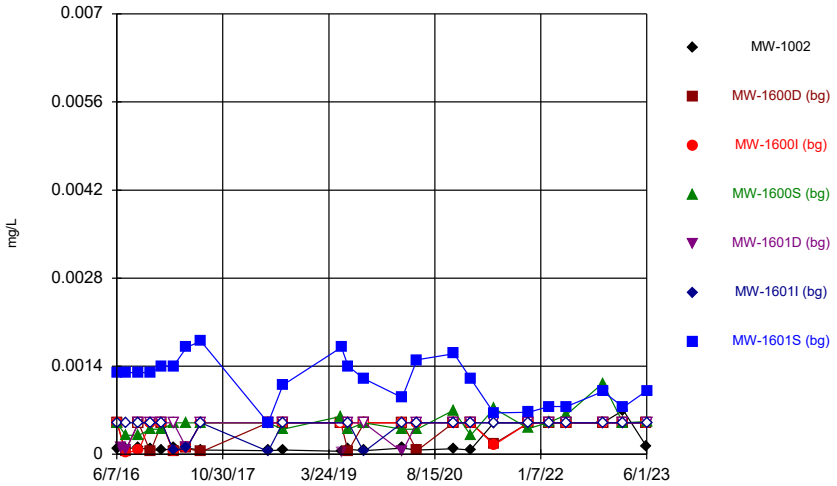
Time Series



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

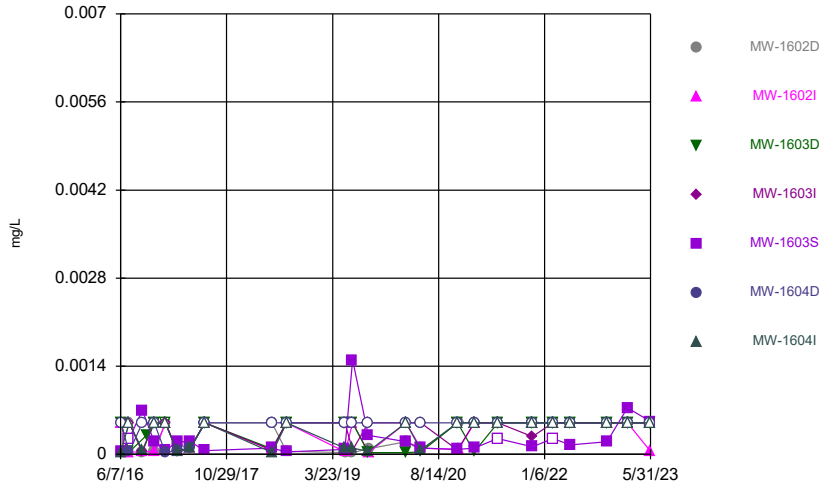
Time Series



Constituent: Selenium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

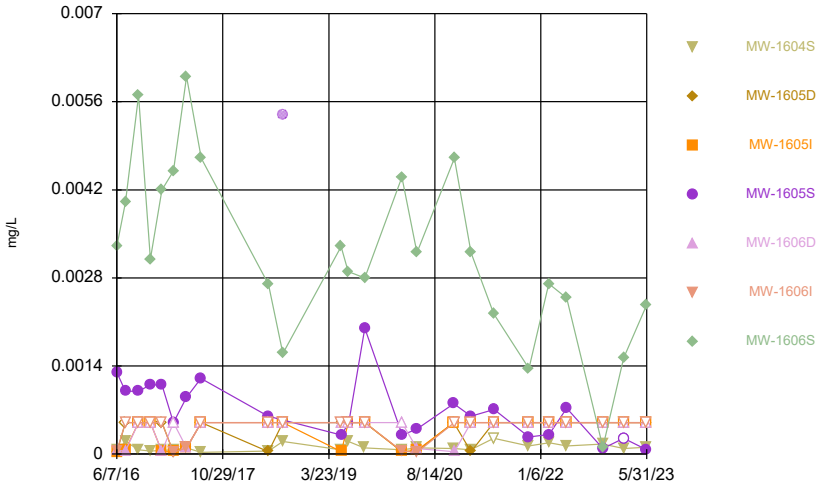
Time Series



Constituent: Selenium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

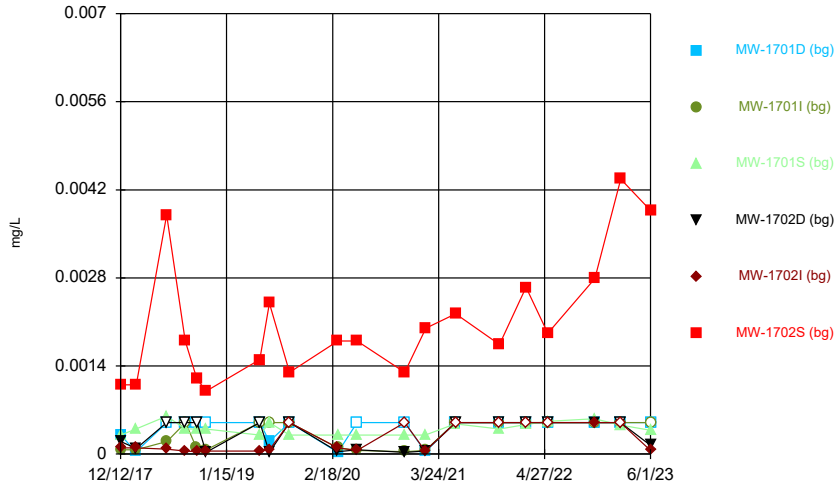
Time Series



Constituent: Selenium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

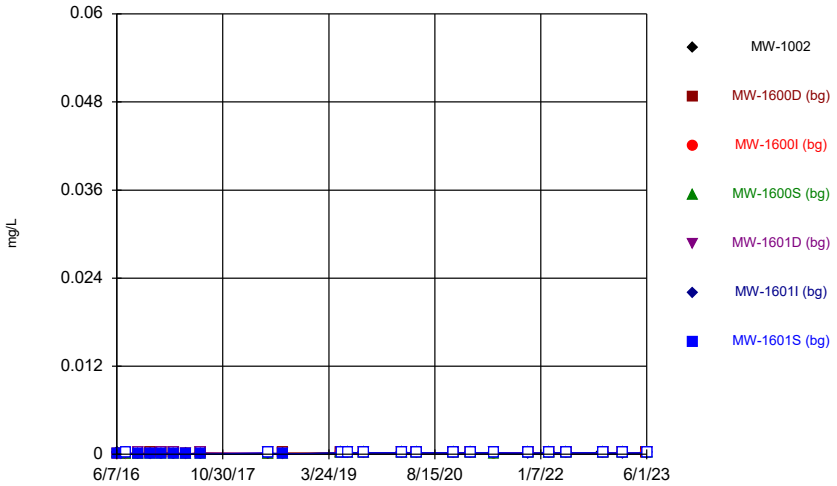
Time Series



Constituent: Selenium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

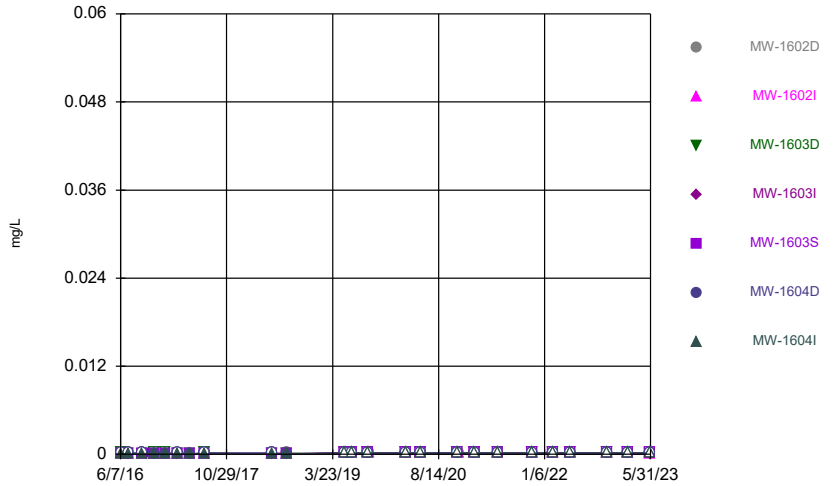
Time Series



Constituent: Thallium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

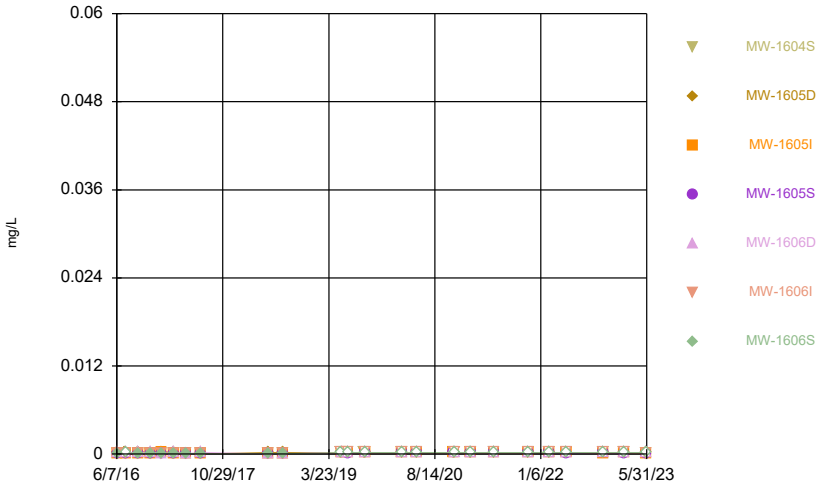
Time Series



Constituent: Thallium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

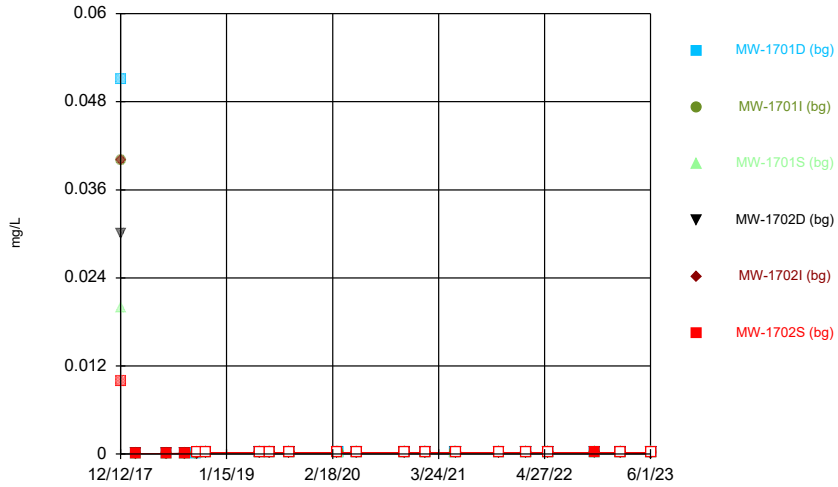
Time Series



Constituent: Thallium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

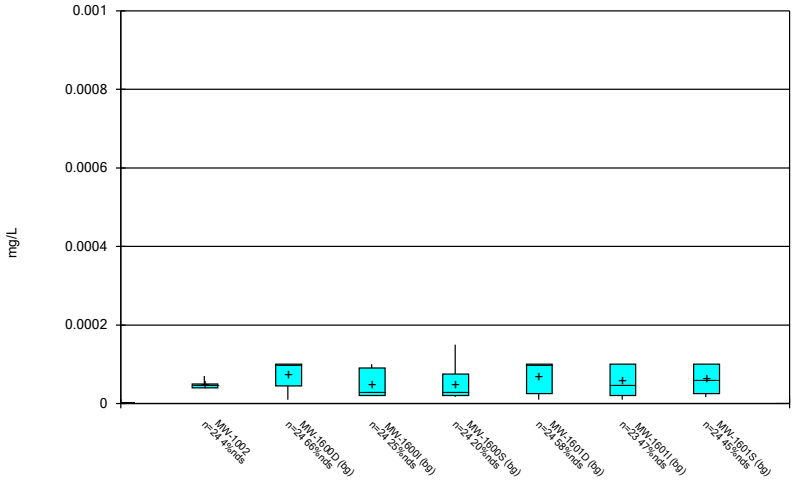
Sanitas™ v.10.0.13b Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium, total Analysis Run 10/31/2023 11:01 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

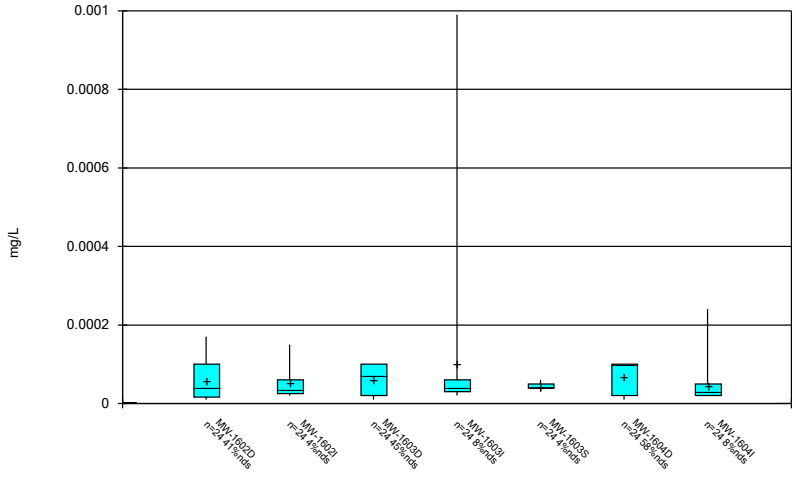
Box & Whiskers Plot



Constituent: Antimony, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

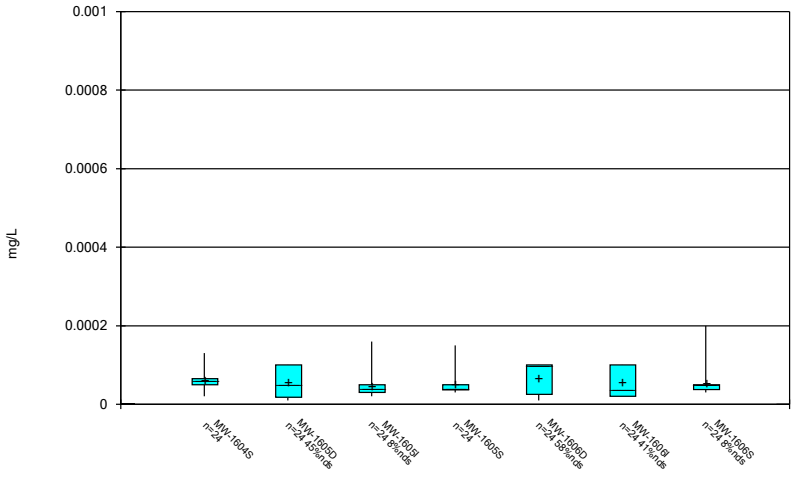
Box & Whiskers Plot



Constituent: Antimony, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

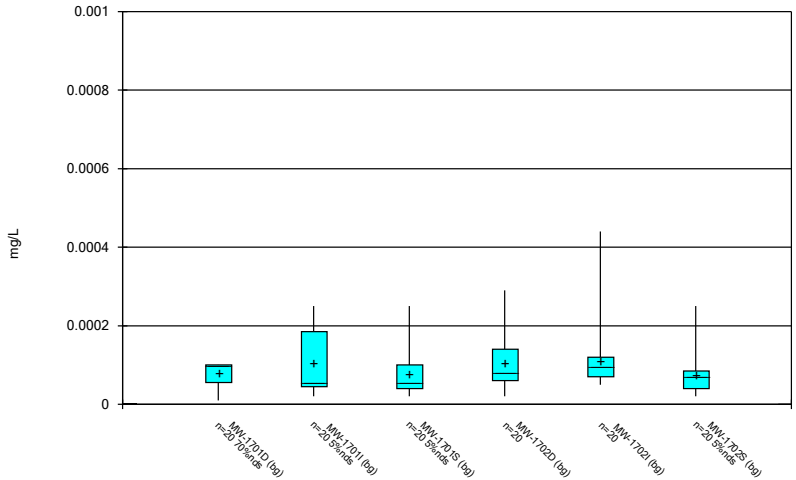
Box & Whiskers Plot



Constituent: Antimony, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

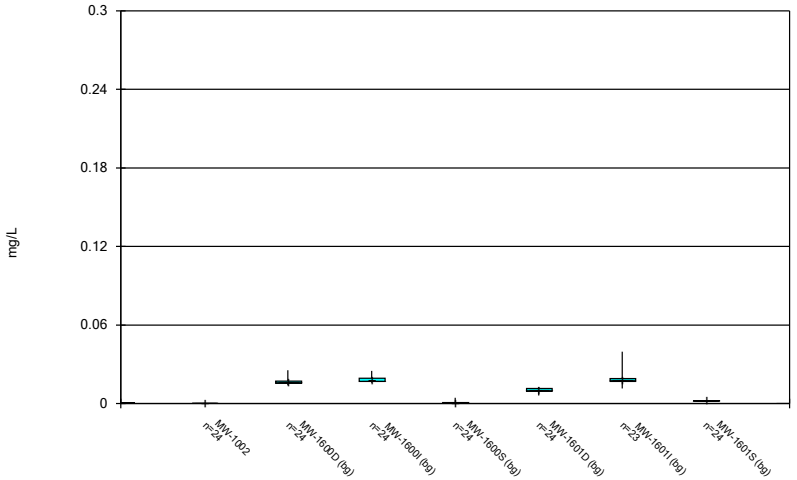
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



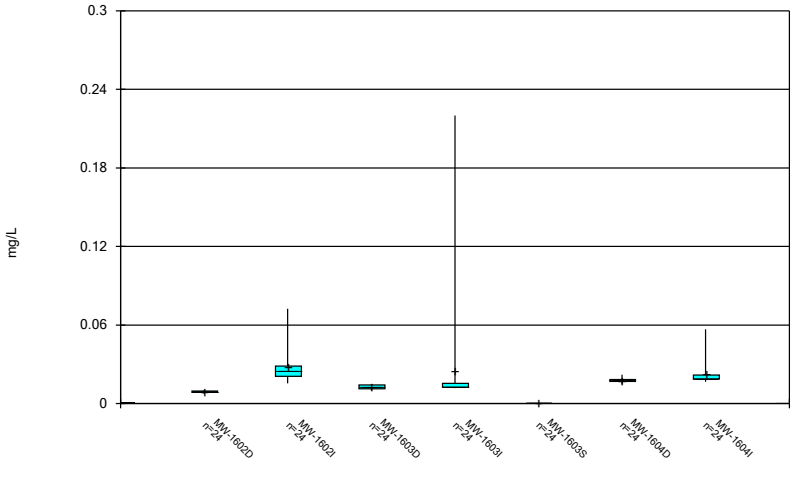
Constituent: Antimony, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



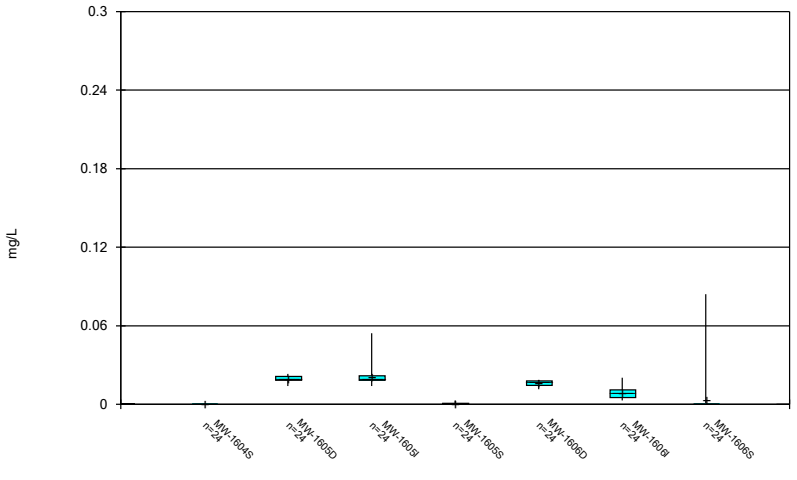
Constituent: Arsenic, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



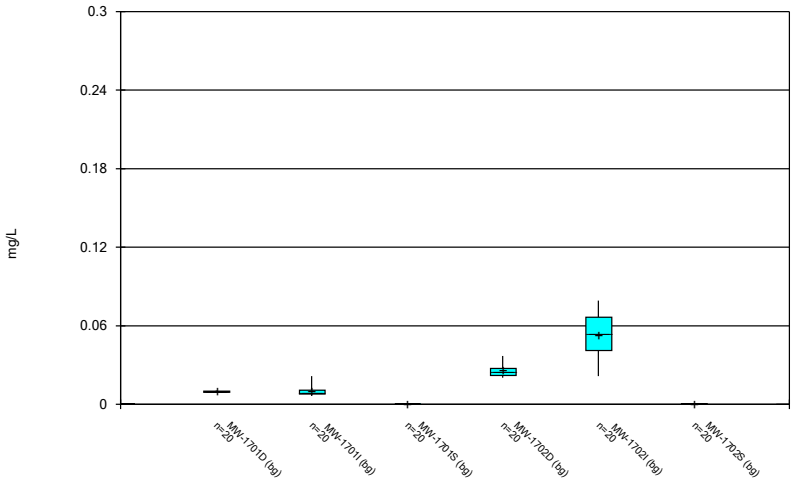
Constituent: Arsenic, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



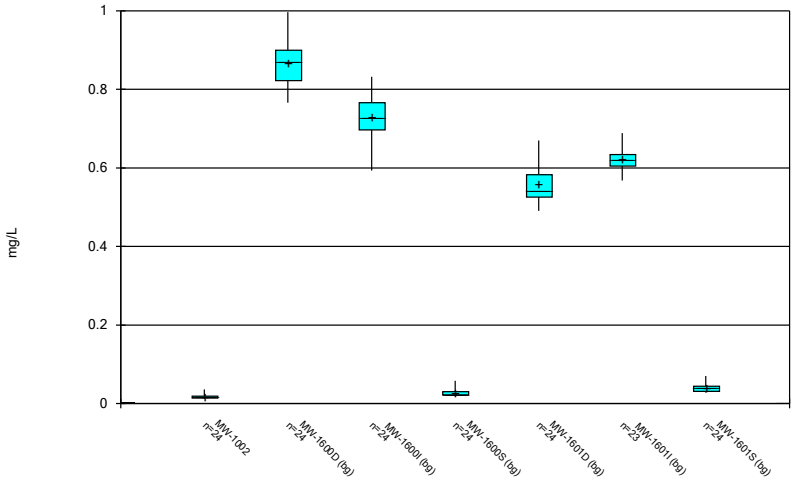
Constituent: Arsenic, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



Constituent: Arsenic, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

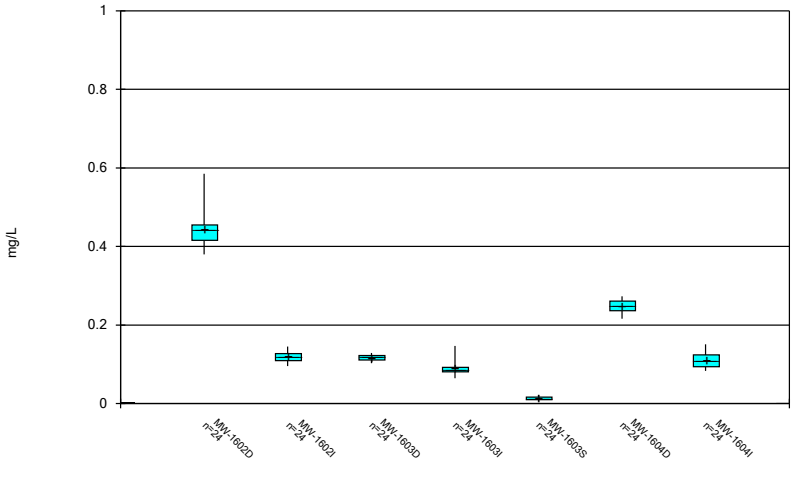
Box & Whiskers Plot



Constituent: Barium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

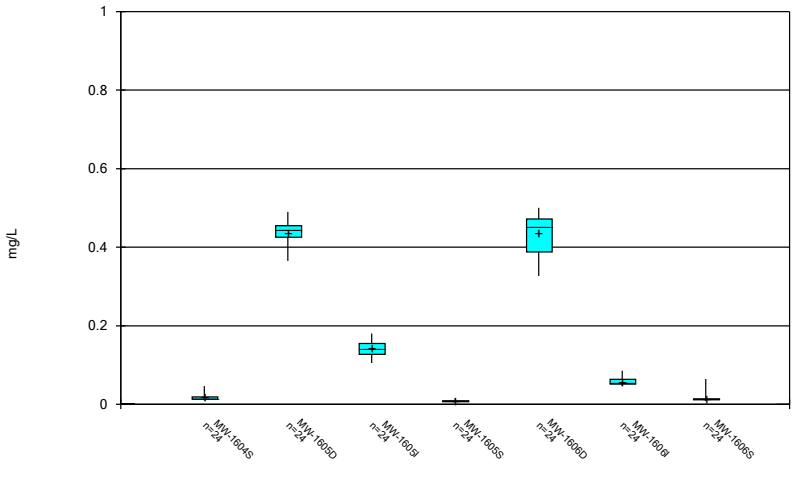
Box & Whiskers Plot



Constituent: Barium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

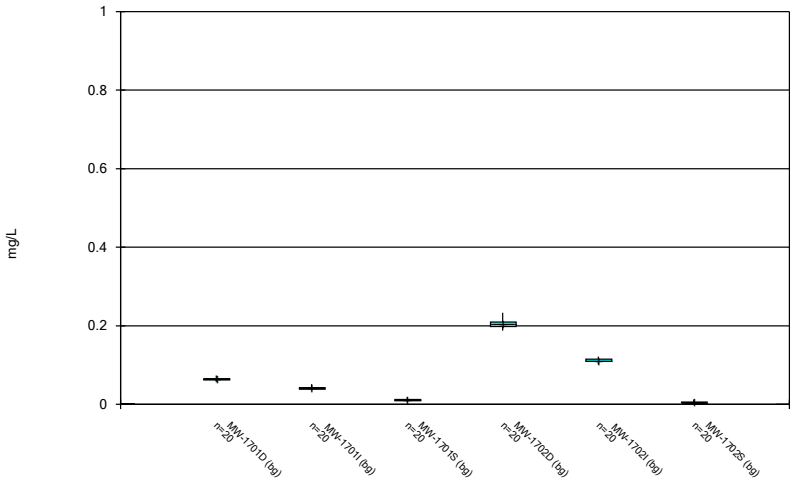
Box & Whiskers Plot



Constituent: Barium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

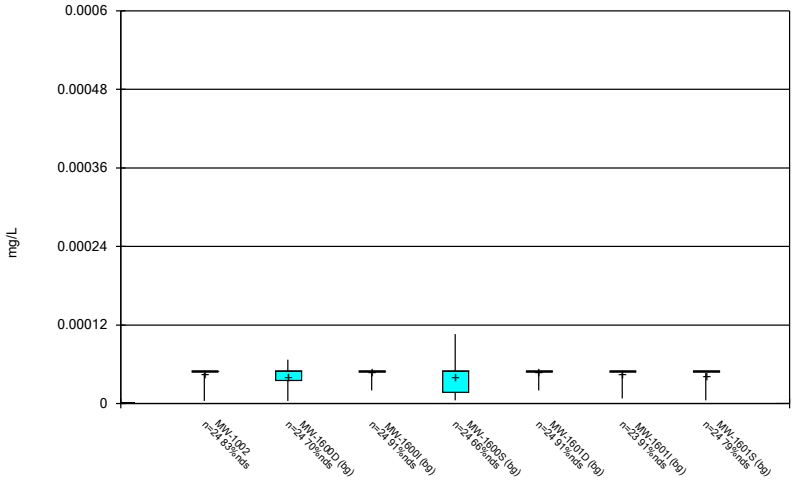
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Barium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

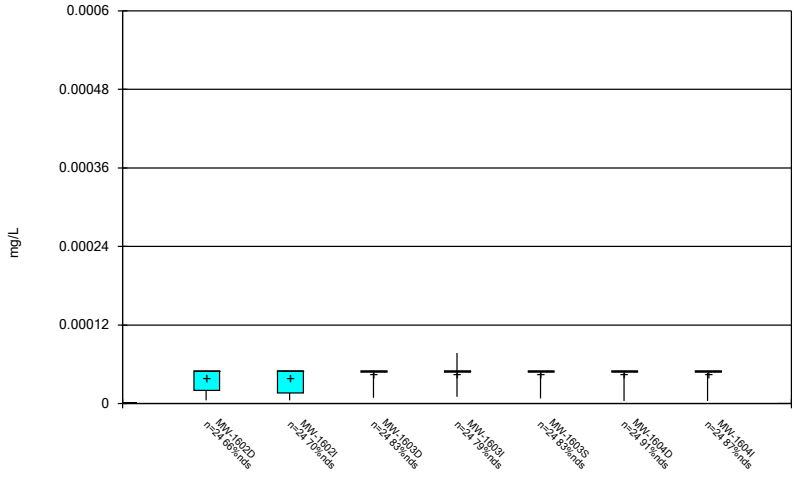
Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

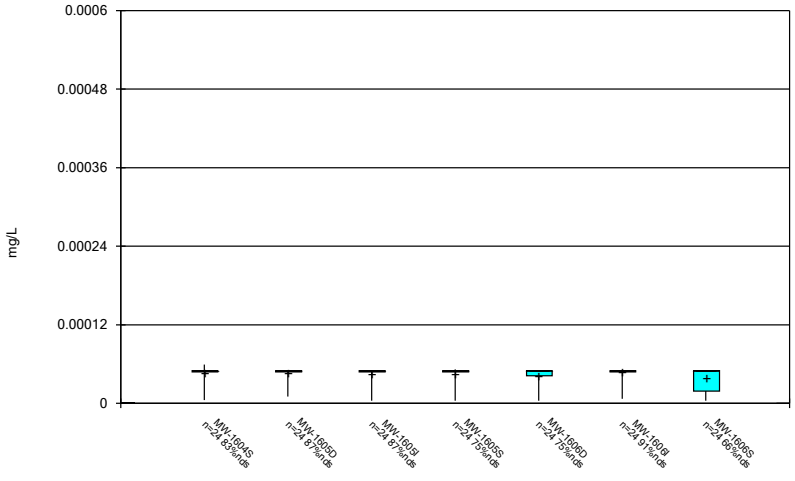
Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

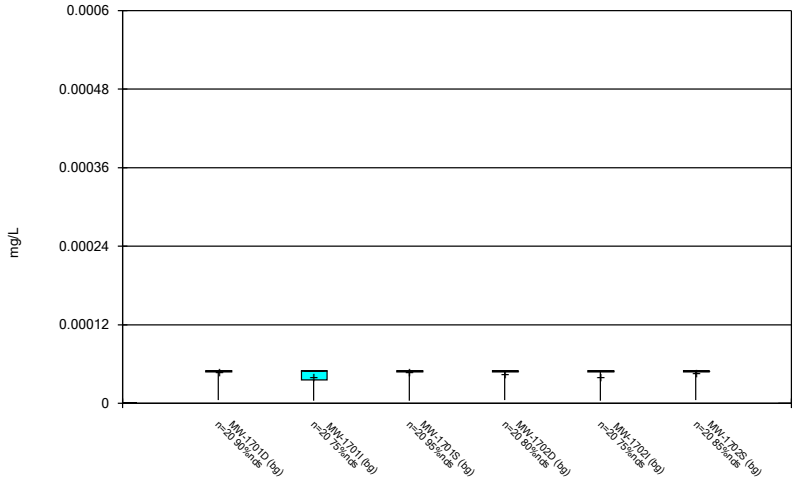
Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

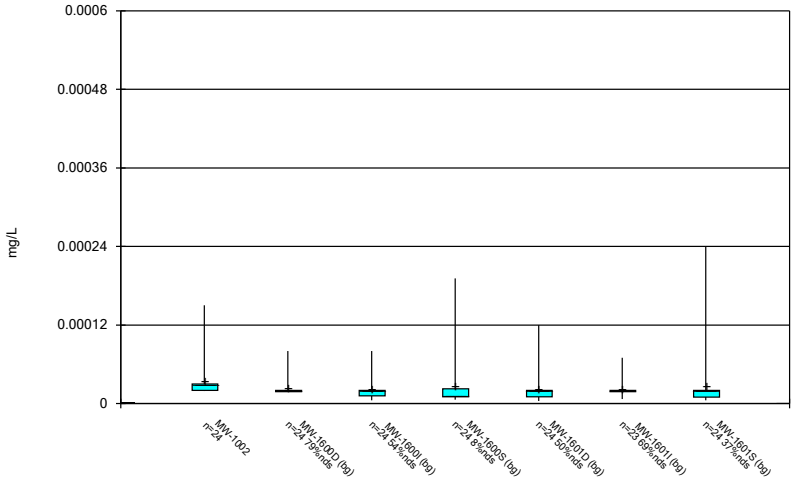
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

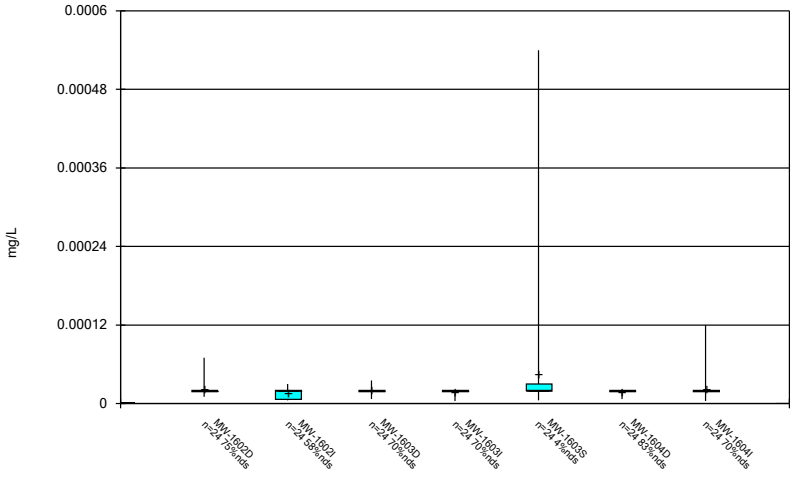
Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

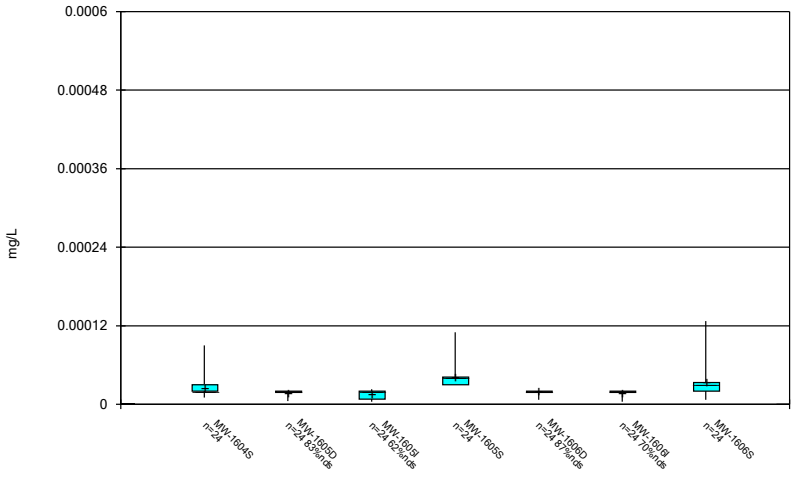
Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

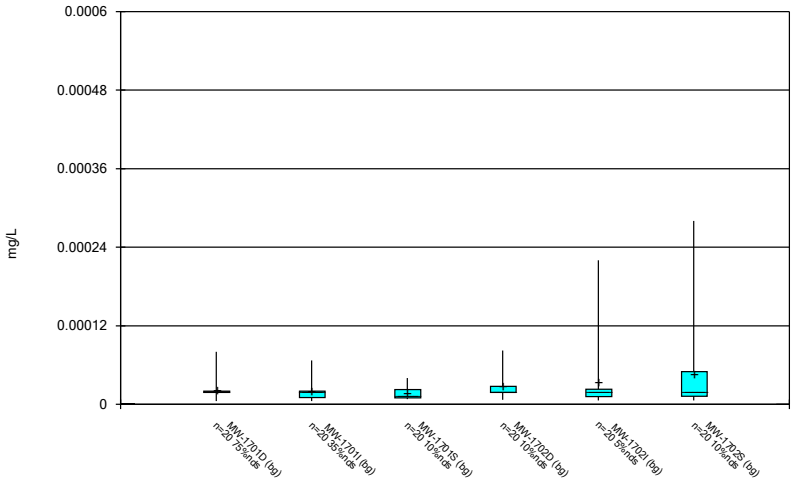
Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

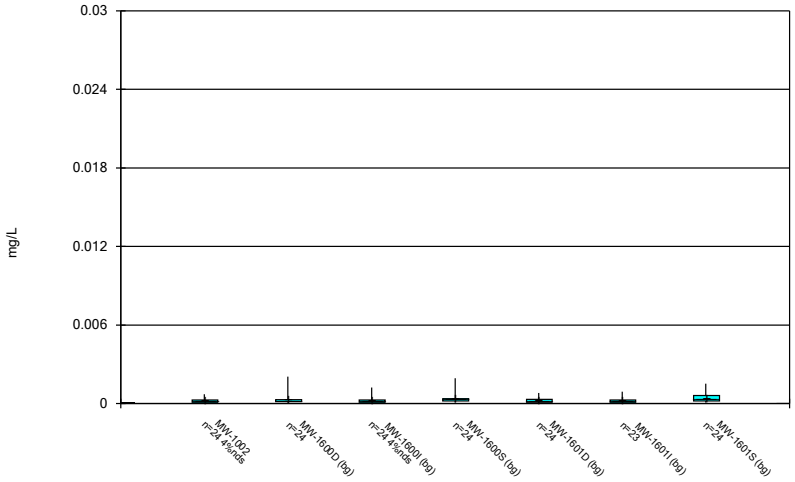
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Cadmium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

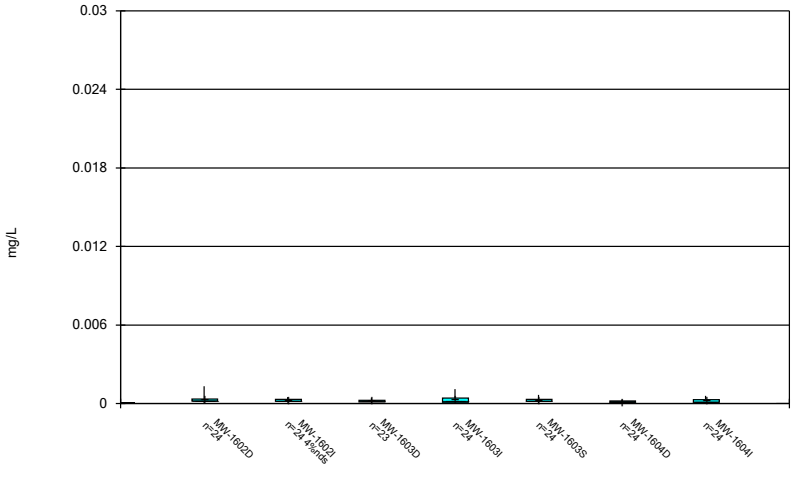
Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

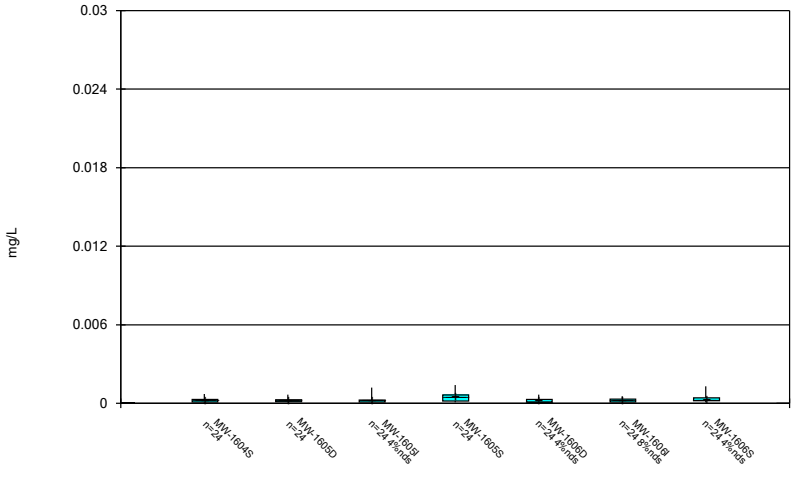
Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

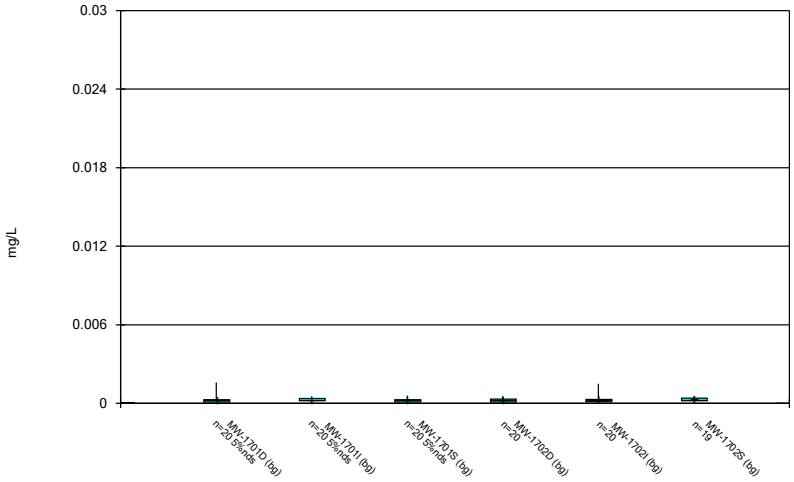
Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

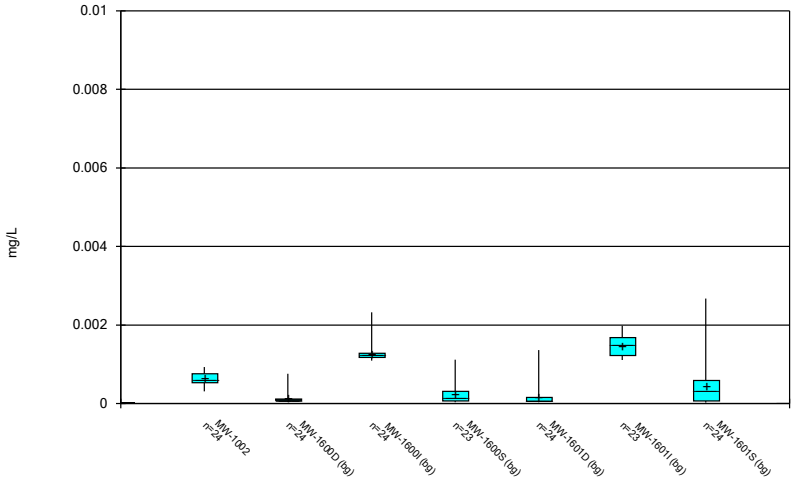
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Chromium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

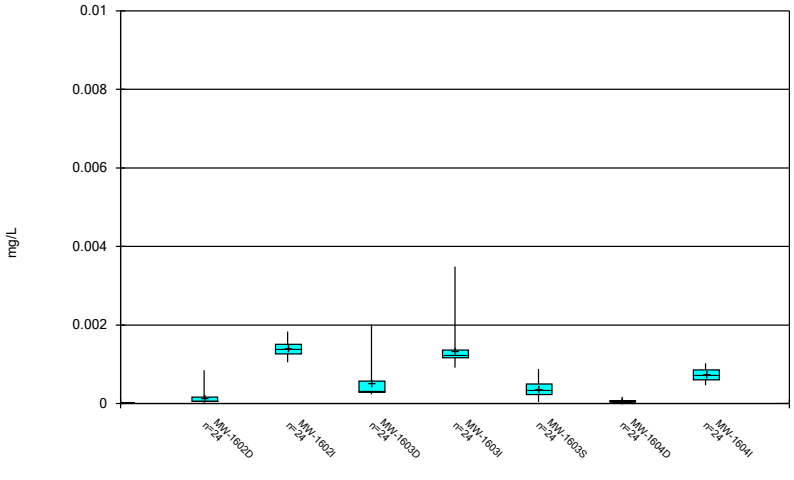
Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

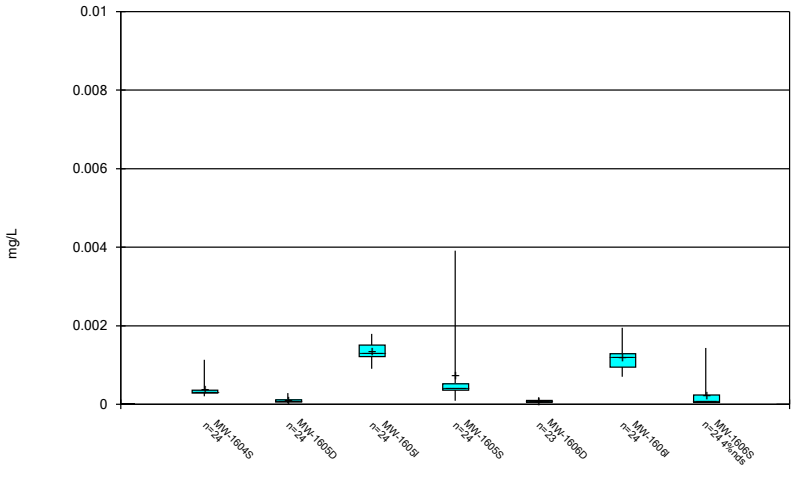
Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

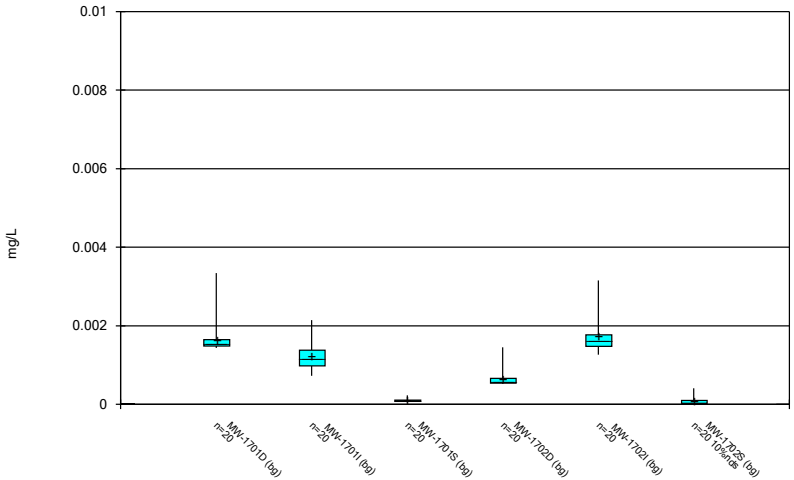
Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

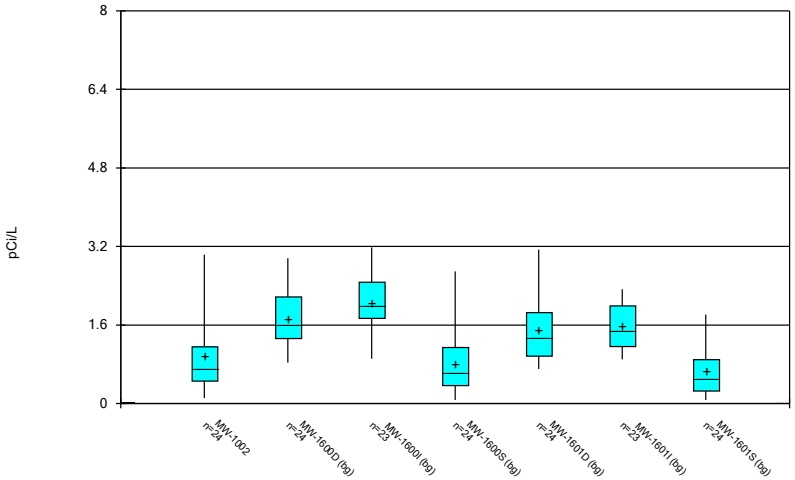
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Cobalt, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

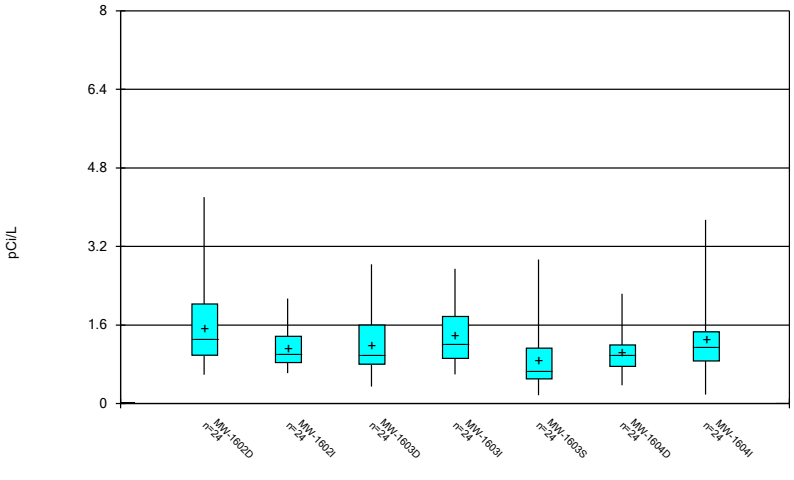
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

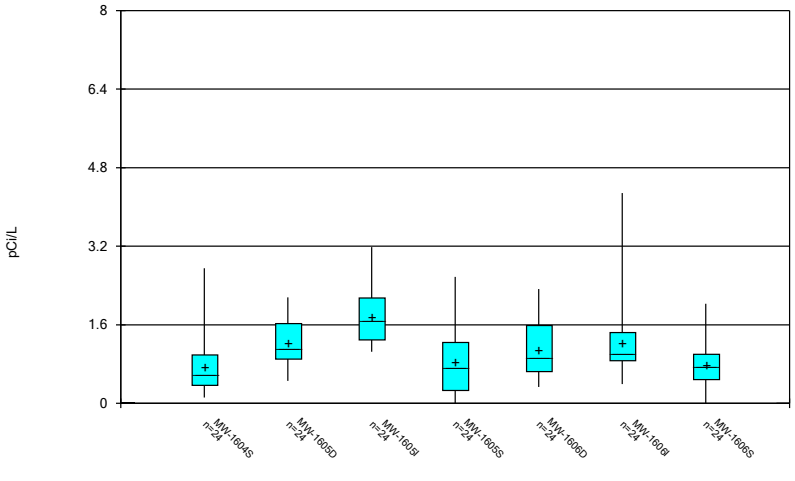
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

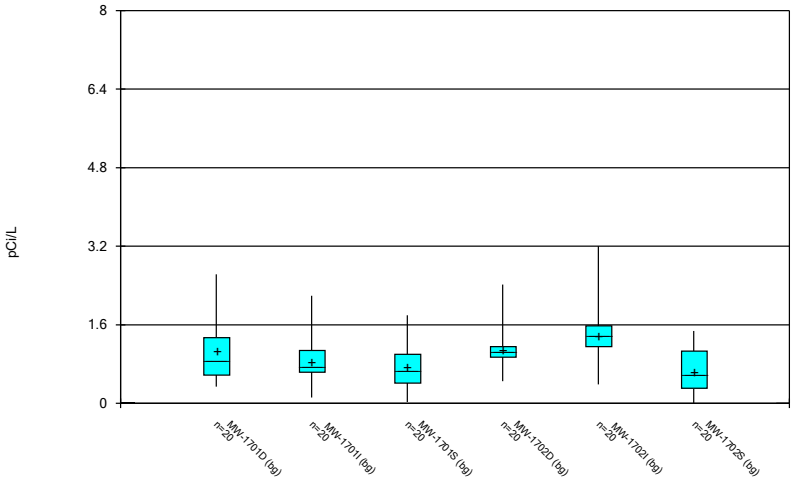
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

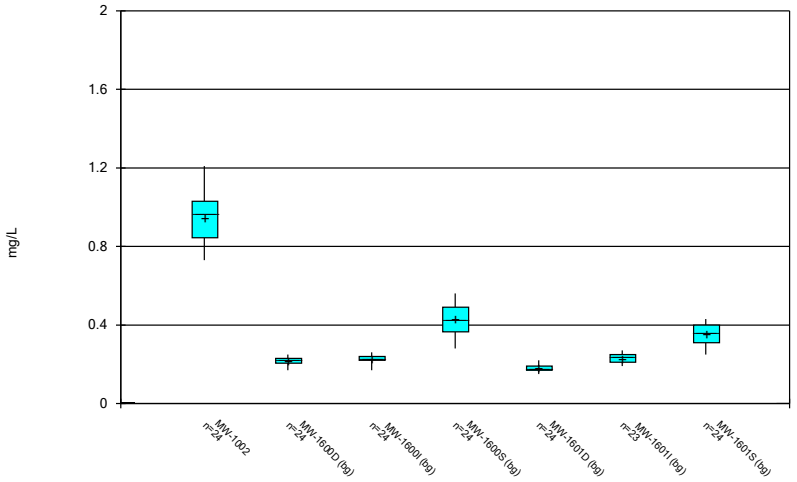
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

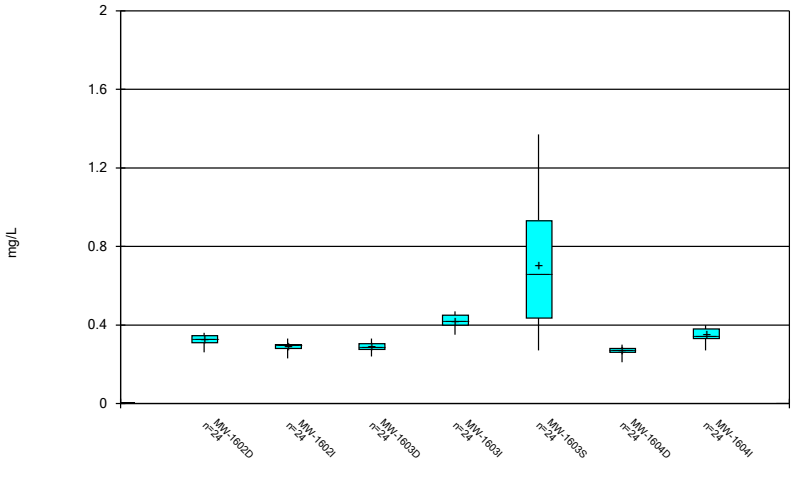
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

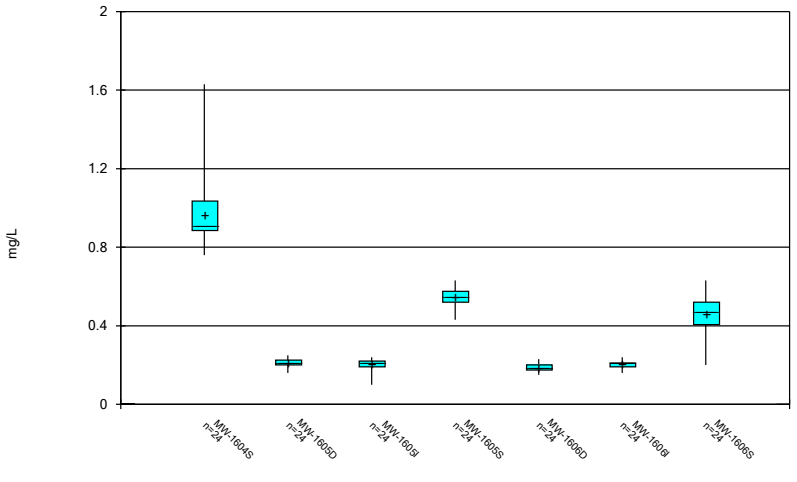
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

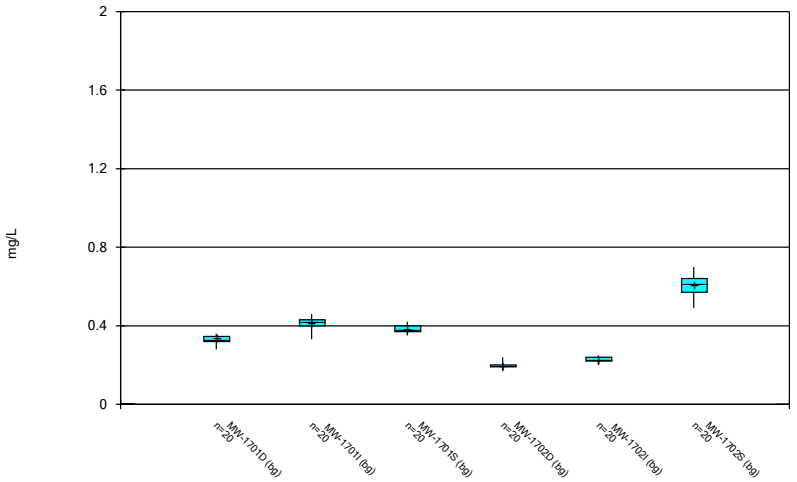
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

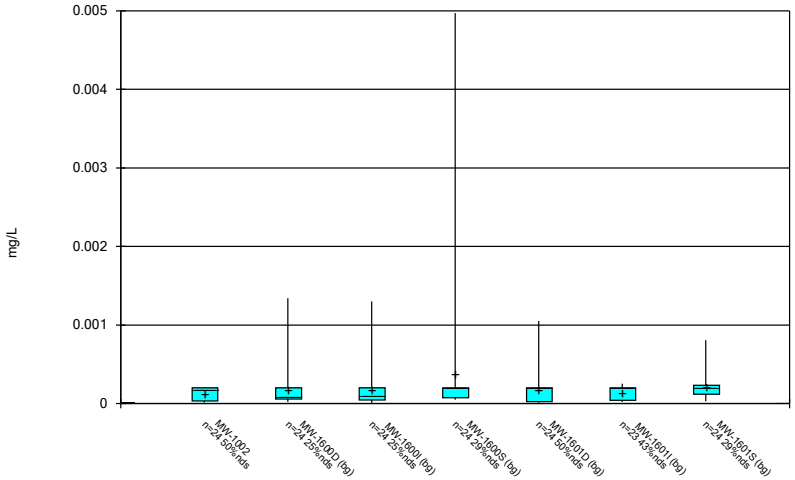
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

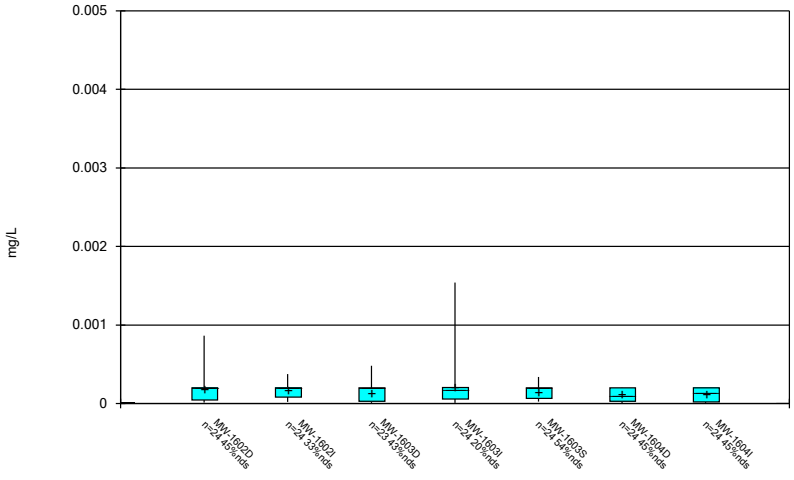
Box & Whiskers Plot



Constituent: Lead, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

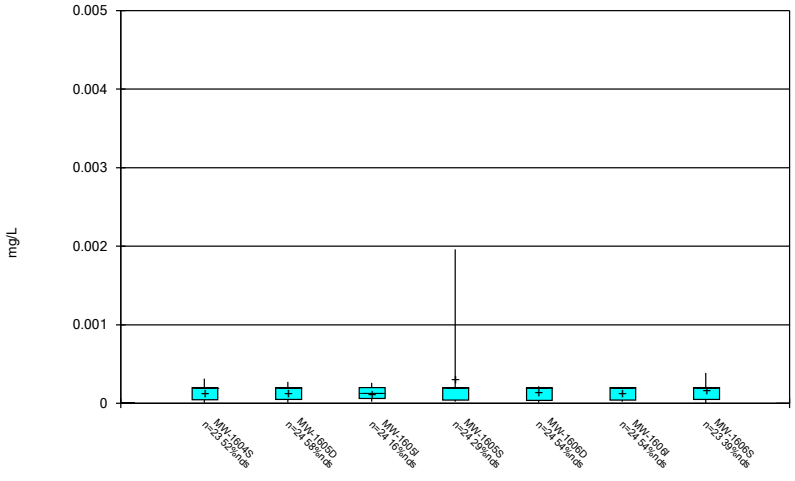
Box & Whiskers Plot



Constituent: Lead, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

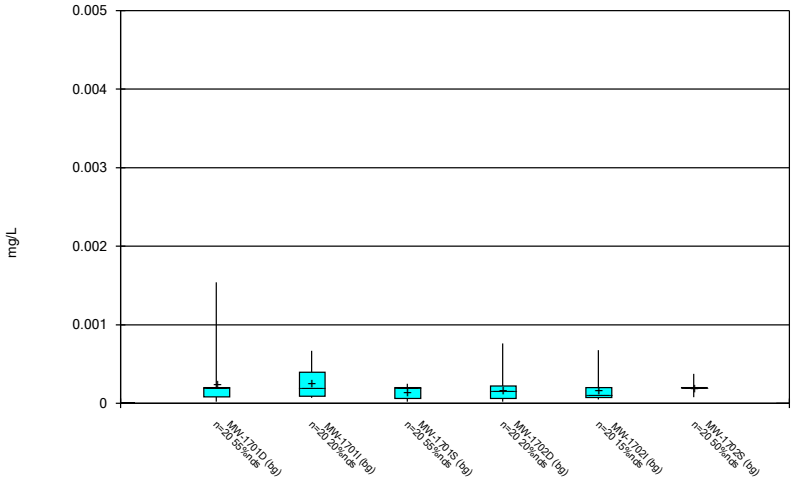
Box & Whiskers Plot



Constituent: Lead, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

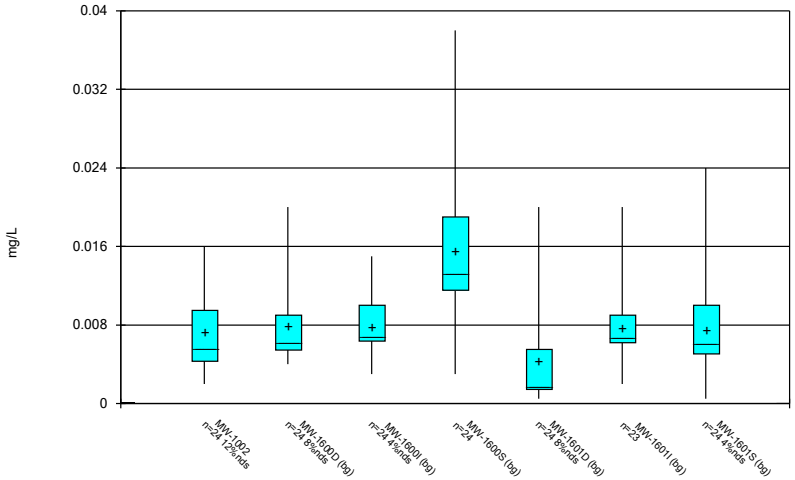
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Lead, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

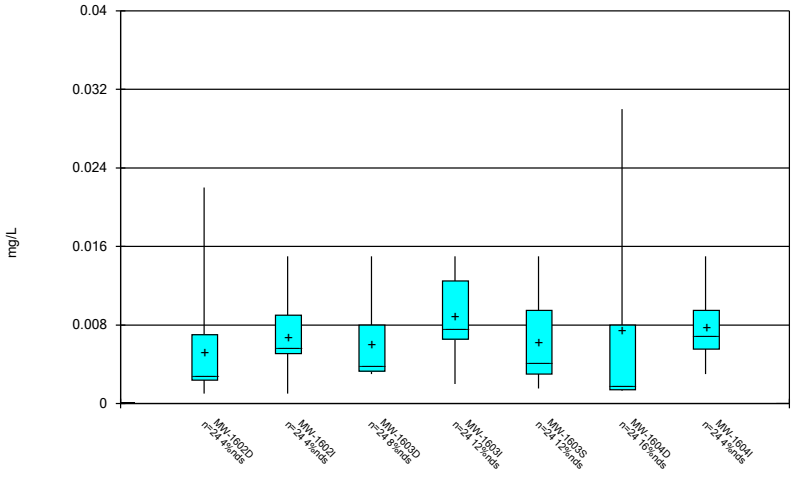
Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

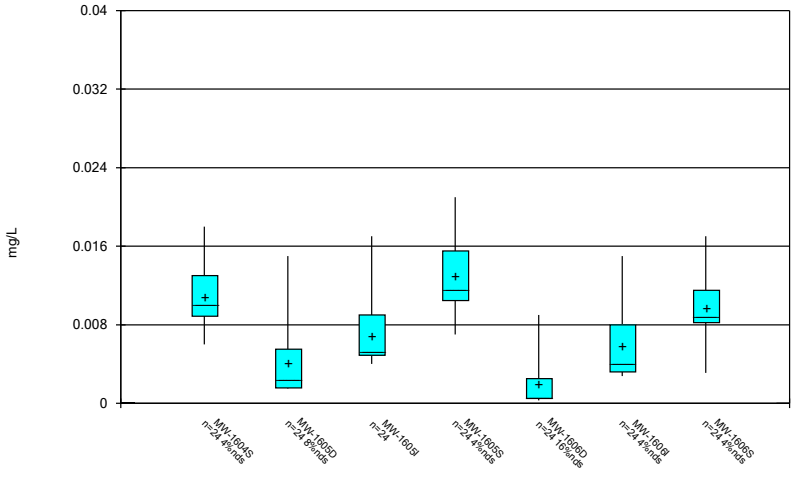
Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

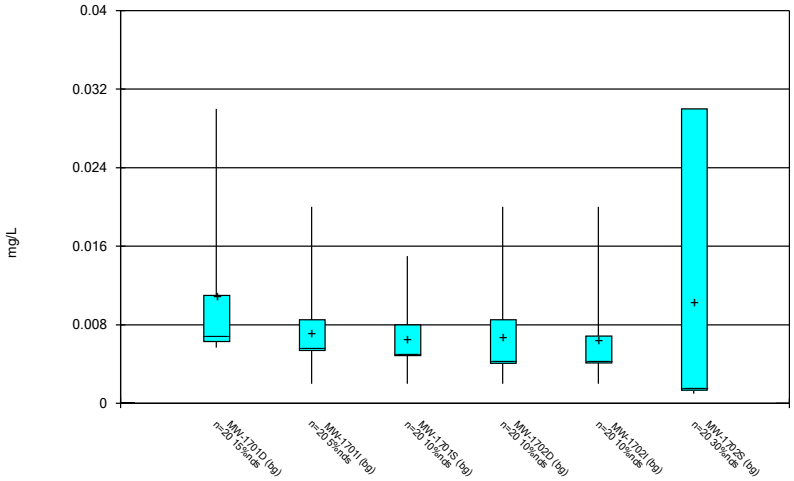
Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

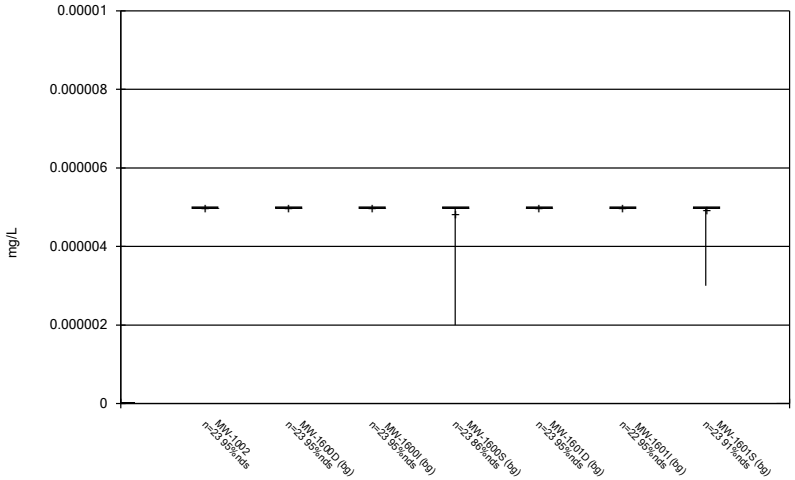
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Lithium, total Analysis Run 10/31/2023 11:04 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

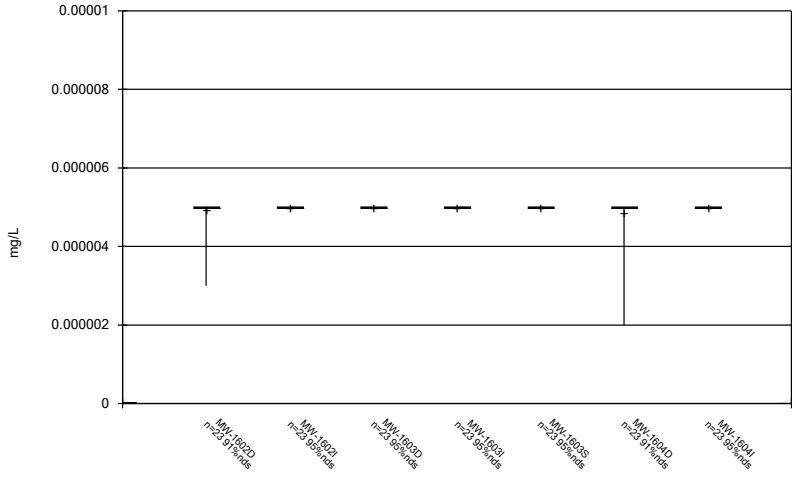
Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

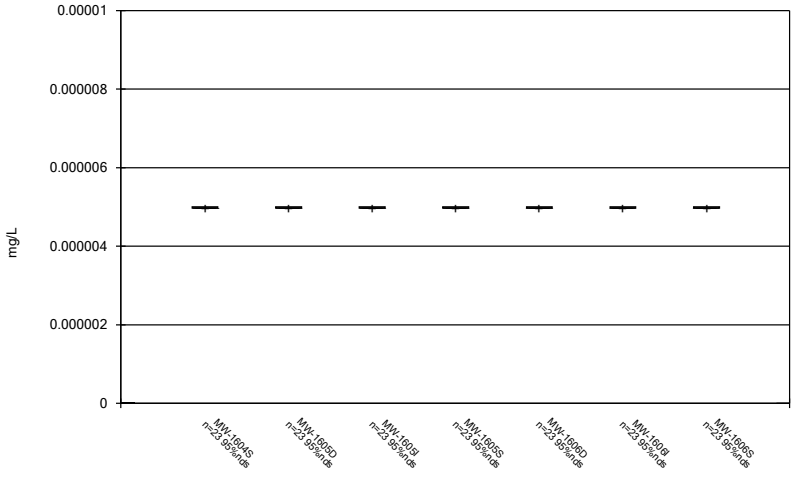
Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

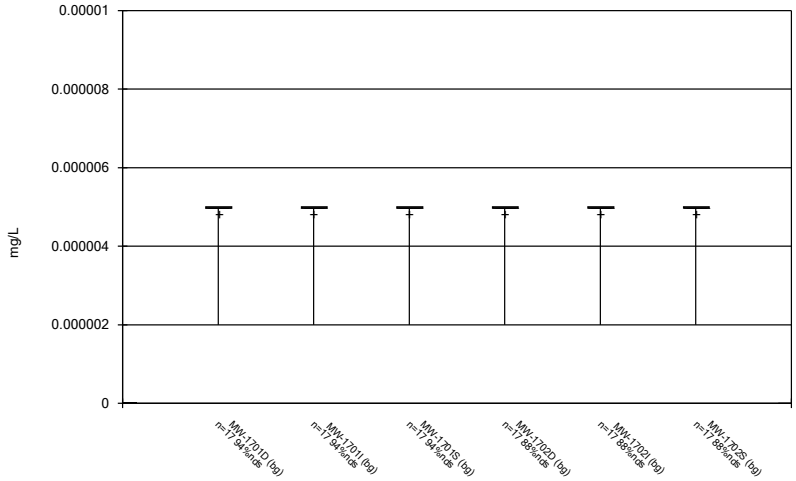
Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

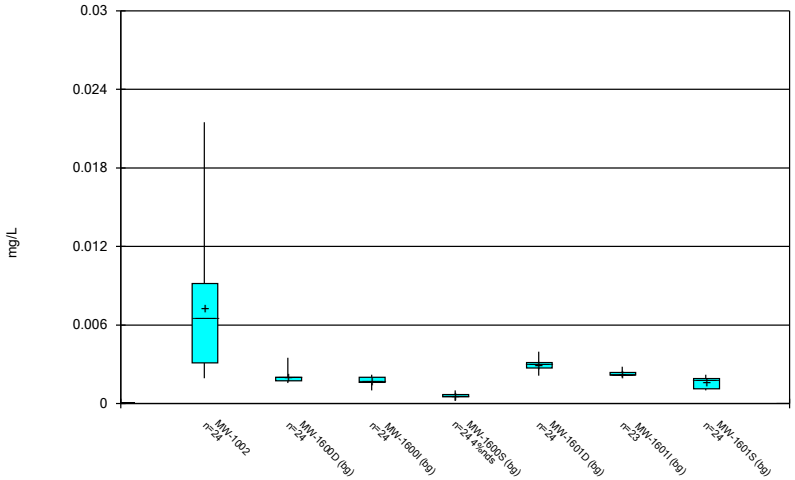
Box & Whiskers Plot



Constituent: Mercury, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

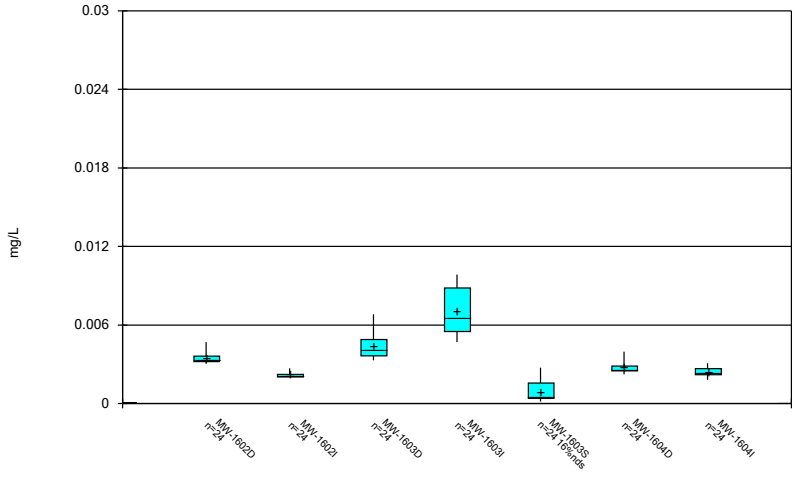
Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

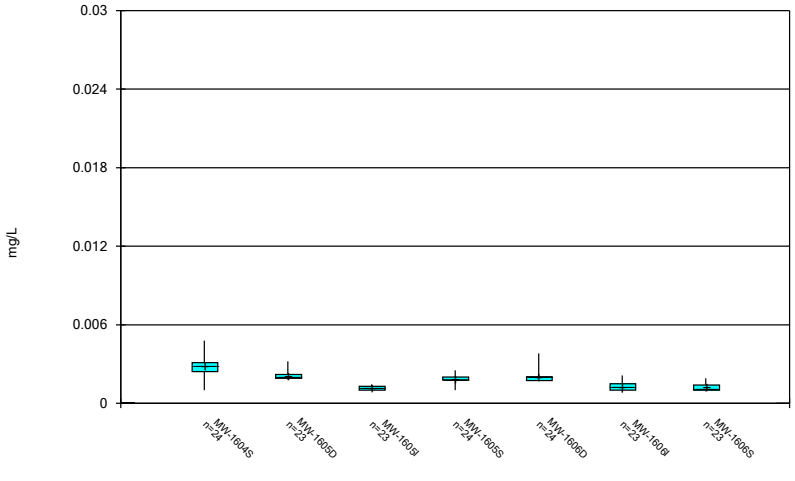
Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

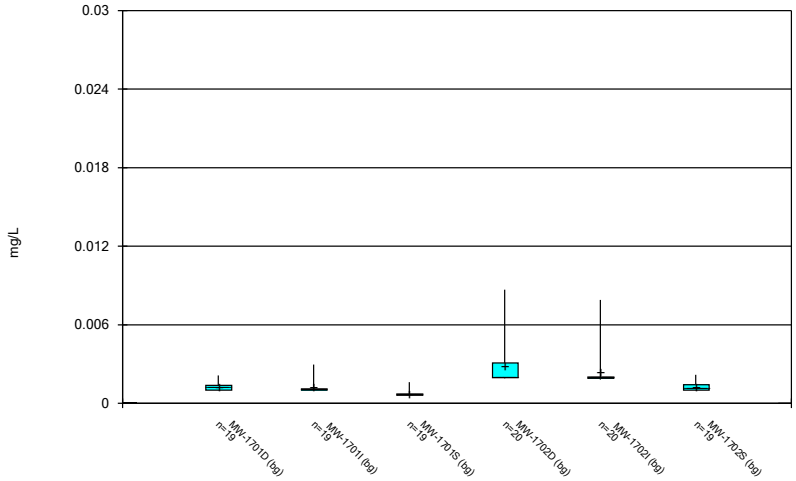
Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

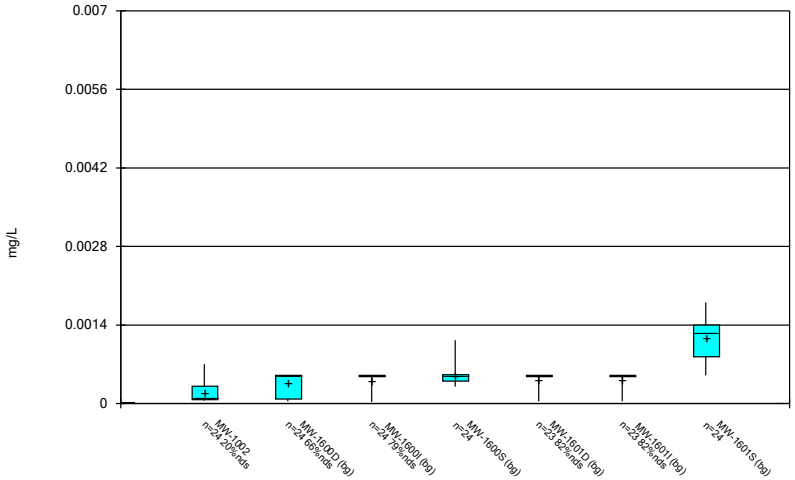
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

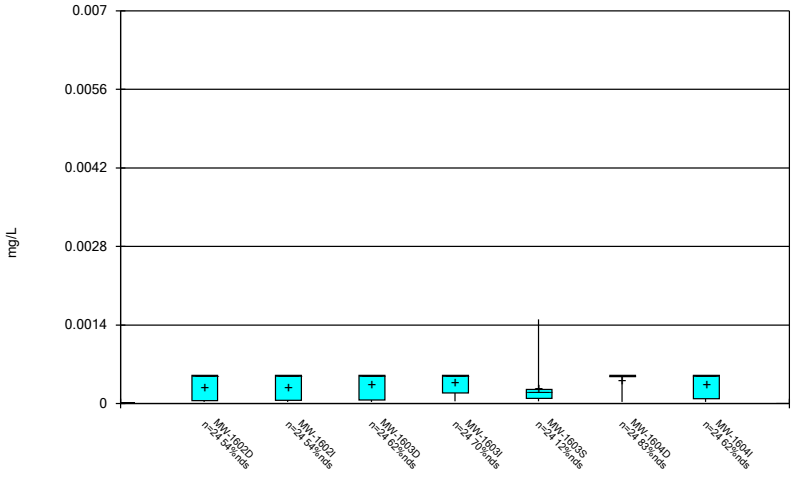
Box & Whiskers Plot



Constituent: Selenium, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

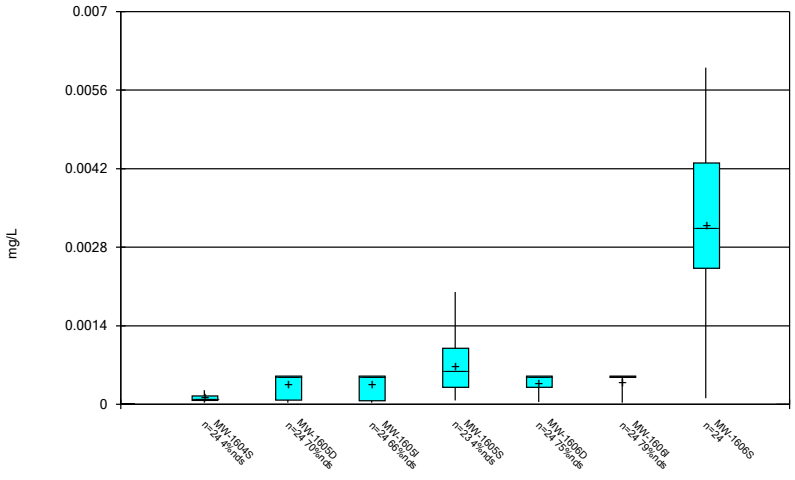
Box & Whiskers Plot



Constituent: Selenium, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

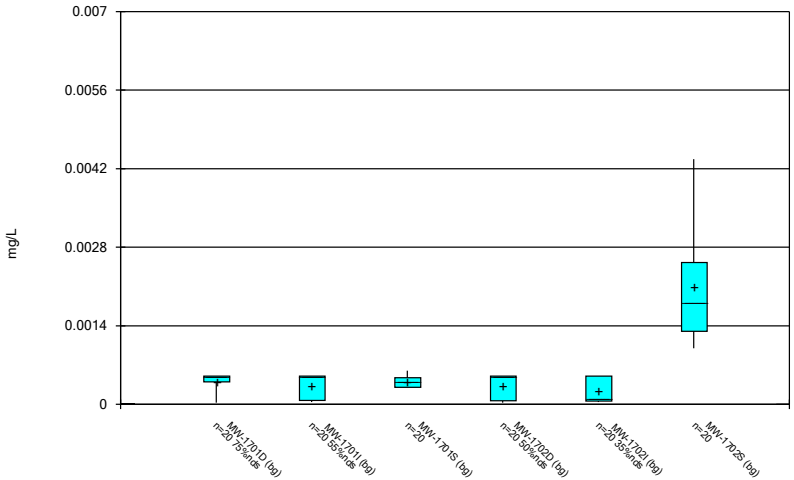
Box & Whiskers Plot



Constituent: Selenium, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

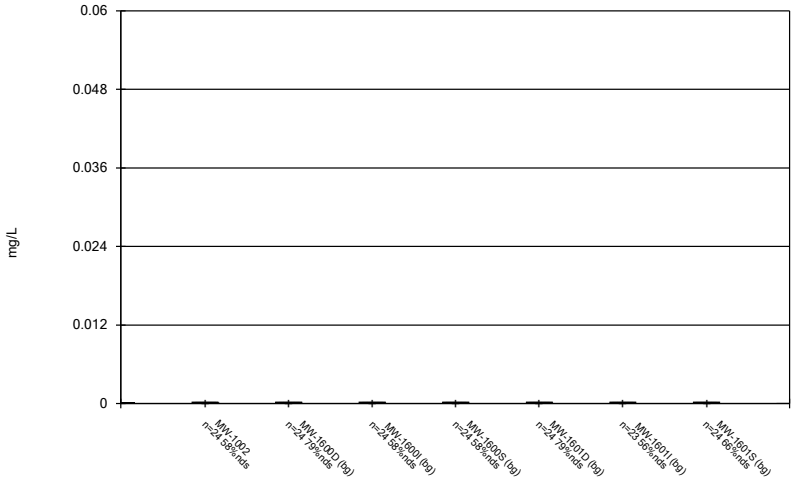
Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Selenium, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

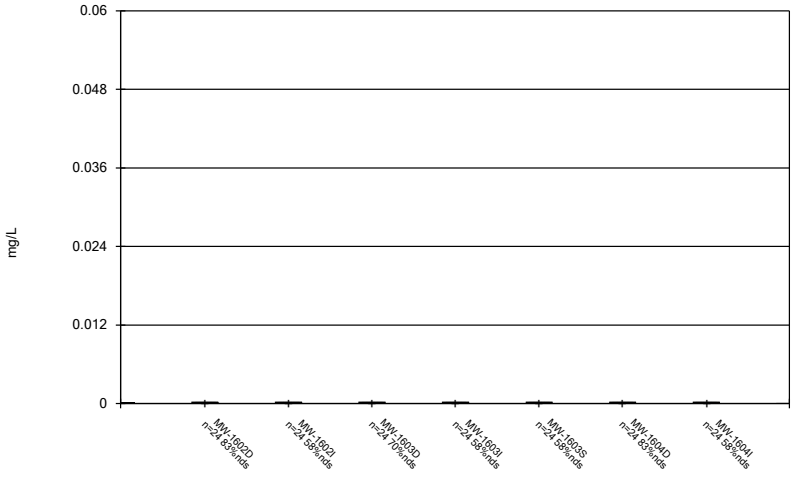
Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

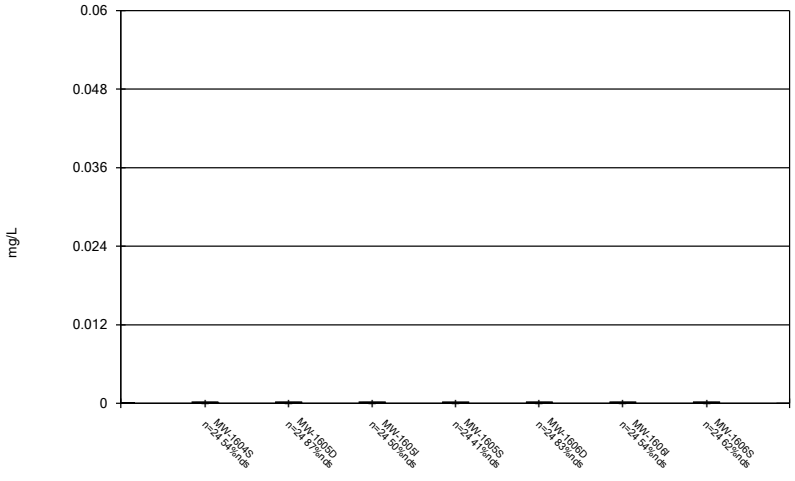
Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

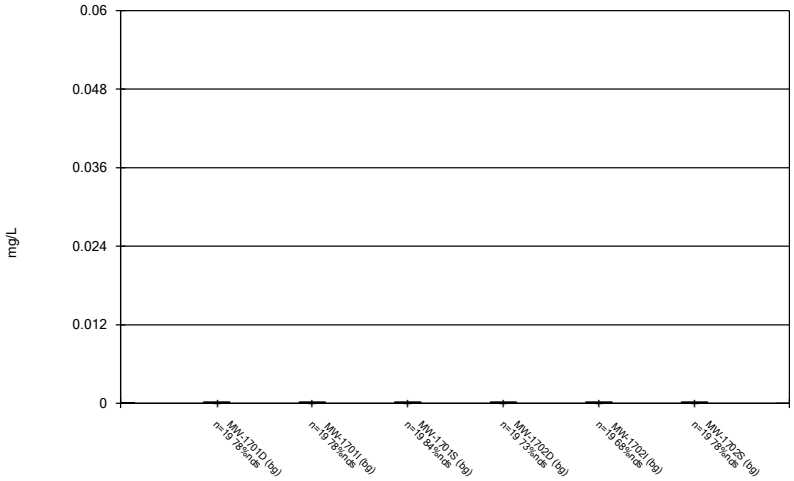
Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 10/31/2023 11:05 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 10/31/2023, 11:11 AM

	MW-1603D Chromium, total (mg/L)	MW-1702S Chromium, total (mg/L)	MW-1600S Cobalt, total (mg/L)	MW-1606D Cobalt, total (mg/L)	MW-1600I Combined Radium 226 + 228 (pCi/L)	MW-1603D Lead, total (mg/L)	MW-1604S Lead, total (mg/L)	MW-1606S Lead, total (mg/L)	MW-1605D Molybdenum, total (mg/L)	MW-1605I Molybdenum, total (mg/L)
6/7/2016				0.000508 (o)					0.00765 (o)	
6/8/2016					7.25 (o)					
7/20/2016						0.000911 (o)				
10/10/2016	0.0238 (o)						0.00138 (o)			
3/7/2017								0.00133 (o)		
12/12/2017		0.00413 (o)								
8/15/2018										
5/24/2019										
6/25/2019										<0.01 (o)
5/27/2021			0.00995 (o)							

	MW-1606I Molybdenum, total (mg/L)	MW-1606S Molybdenum, total (mg/L)	MW-1701D Molybdenum, total (mg/L)	MW-1701I Molybdenum, total (mg/L)	MW-1701S Molybdenum, total (mg/L)	MW-1702S Molybdenum, total (mg/L)	MW-1601D Selenium, total (mg/L)	MW-1605S Selenium, total (mg/L)	MW-1701D Thallium, total (mg/L)	MW-1701I Thallium, total (mg/L)
6/7/2016										
6/8/2016										
7/20/2016										
10/10/2016										
3/7/2017										
12/12/2017									0.051 (o)	0.04 (o)
8/15/2018								0.0054 (o)		
5/24/2019							3E-05 (Jo)			
6/25/2019	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)				
5/27/2021										

	MW-1701S Thallium, total (mg/L)	MW-1702D Thallium, total (mg/L)	MW-1702I Thallium, total (mg/L)	MW-1702S Thallium, total (mg/L)
6/7/2016				
6/8/2016				
7/20/2016				
10/10/2016				
3/7/2017				
12/12/2017	0.02 (o)	0.03 (o)	0.04 (o)	0.01 (o)
8/15/2018				
5/24/2019				
6/25/2019				
5/27/2021				

Upper Tolerance Limits Summary Table

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 1/2/2023, 3:41 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony, total (mg/L)	n/a	0.00044	n/a	n/a	n/a	239	n/a	n/a	30.96	n/a	n/a	NaN	NP Inter(normality)
Arsenic, total (mg/L)	n/a	0.0791	n/a	n/a	n/a	239	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Barium, total (mg/L)	n/a	0.997	n/a	n/a	n/a	239	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium, total (mg/L)	n/a	0.000106	n/a	n/a	n/a	239	n/a	n/a	81.59	n/a	n/a	NaN	NP Inter(NDs)
Cadmium, total (mg/L)	n/a	0.00028	n/a	n/a	n/a	239	n/a	n/a	37.24	n/a	n/a	NaN	NP Inter(normality)
Chromium, total (mg/L)	n/a	0.00413	n/a	n/a	n/a	239	n/a	n/a	1.674	n/a	n/a	NaN	NP Inter(normality)
Cobalt, total (mg/L)	n/a	0.00995	n/a	n/a	n/a	239	n/a	n/a	0.8368	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	2.858	n/a	n/a	n/a	239	1.039	0.3582	0	None	sqrt(x)	0.05	Inter
Fluoride, total (mg/L)	n/a	0.7	n/a	n/a	n/a	239	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Lead, total (mg/L)	n/a	0.00497	n/a	n/a	n/a	239	n/a	n/a	32.64	n/a	n/a	NaN	NP Inter(normality)
Lithium, total (mg/L)	n/a	0.038	n/a	n/a	n/a	239	n/a	n/a	9.205	n/a	n/a	NaN	NP Inter(normality)
Mercury, total (mg/L)	n/a	0.000005	n/a	n/a	n/a	215	n/a	n/a	91.63	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum, total (mg/L)	n/a	0.00867	n/a	n/a	n/a	239	n/a	n/a	2.092	n/a	n/a	NaN	NP Inter(normality)
Selenium, total (mg/L)	n/a	0.0038	n/a	n/a	n/a	239	n/a	n/a	42.68	n/a	n/a	NaN	NP Inter(normality)
Thallium, total (mg/L)	n/a	0.051	n/a	n/a	n/a	239	n/a	n/a	67.36	n/a	n/a	NaN	NP Inter(NDs)

ROCKPORT BAP GWPS				
Constituent Name	**MCL**	**CCR Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.00044	0.006
Arsenic, Total (mg/L)	0.01		0.079	0.079
Barium, Total (mg/L)	2		0.1	2
Beryllium, Total (mg/L)	0.004		0.00011	0.004
Cadmium, Total (mg/L)	0.005		0.00028	0.005
Chromium, Total (mg/L)	0.1		0.0041	0.1
Cobalt, Total (mg/L)		0.006	0.01	0.01
Combined Radium, Total (pCi/L)	5		2.86	5
Fluoride, Total (mg/L)	4		0.7	4
Lead, Total (mg/L)		0.015	0.005	0.015
Lithium, Total (mg/L)		0.04	0.038	0.04
Mercury, Total (mg/L)	0.002		0.000005	0.002
Molybdenum, Total (mg/L)		0.1	0.0087	0.1
Selenium, Total (mg/L)	0.05		0.0038	0.05
Thallium, Total (mg/L)	0.002		0.051	0.051

**Grey cell indicates background is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Appendix IV Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 10/31/2023, 11:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony, total (mg/L)	MW-1002	0.00005	0.00004	0.006	No	24	4.167	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1602D	0.0001	0.000013	0.006	No	24	41.67	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1602I	0.00005788	0.0000299	0.006	No	24	4.167	None	ln(x)	0.01	Param.
Antimony, total (mg/L)	MW-1603D	0.0001	0.00002	0.006	No	24	45.83	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1603I	0.00007	0.00003	0.006	No	24	8.333	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1603S	0.00005	0.00004	0.006	No	24	4.167	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604D	0.0001	0.00002	0.006	No	24	58.33	None	No	0.01	NP (NDs)
Antimony, total (mg/L)	MW-1604I	0.00005	0.00002	0.006	No	24	8.333	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604S	0.00007	0.00005	0.006	No	24	0	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605D	0.0001	0.000016	0.006	No	24	45.83	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605I	0.00005202	0.00003299	0.006	No	24	8.333	None	ln(x)	0.01	Param.
Antimony, total (mg/L)	MW-1605S	0.00005	0.000033	0.006	No	24	0	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1606D	0.0001	0.00002	0.006	No	24	58.33	None	No	0.01	NP (NDs)
Antimony, total (mg/L)	MW-1606I	0.0001	0.000027	0.006	No	24	41.67	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1606S	0.00006	0.000035	0.006	No	24	8.333	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1002	0.0002731	0.0002295	0.079	No	24	0	None	ln(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1602D	0.009513	0.008713	0.079	No	24	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1602I	0.03043	0.02164	0.079	No	24	0	None	ln(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1603D	0.01355	0.01204	0.079	No	24	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1603I	0.0155	0.0125	0.079	No	24	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1603S	0.0002226	0.0001694	0.079	No	24	0	None	ln(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1604D	0.0183	0.0168	0.079	No	24	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1604I	0.0221	0.0189	0.079	No	24	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1604S	0.00026	0.00018	0.079	No	24	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1605D	0.02062	0.01853	0.079	No	24	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1605I	0.0223	0.018	0.079	No	24	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1605S	0.0006	0.00045	0.079	No	24	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1606D	0.01745	0.01581	0.079	No	24	0	None	x^6	0.01	Param.
Arsenic, total (mg/L)	MW-1606I	0.01053	0.006503	0.079	No	24	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1606S	0.00026	0.00018	0.079	No	24	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1002	0.01934	0.01456	2	No	24	0	None	ln(x)	0.01	Param.
Barium, total (mg/L)	MW-1602D	0.4674	0.4232	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1602I	0.1264	0.1125	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1603D	0.1207	0.1131	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1603I	0.094	0.0803	2	No	24	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1603S	0.01474	0.01042	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604D	0.2565	0.2406	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604I	0.1191	0.1004	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604S	0.0185	0.0129	2	No	24	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1605D	0.4532	0.4212	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1605I	0.1524	0.1328	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1605S	0.009228	0.006902	2	No	24	0	None	sqrt(x)	0.01	Param.
Barium, total (mg/L)	MW-1606D	0.4607	0.4101	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1606I	0.06438	0.05361	2	No	24	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1606S	0.0139	0.0111	2	No	24	0	None	No	0.01	NP (normality)
Beryllium, total (mg/L)	MW-1002	0.00005	0.00002	0.004	No	24	83.33	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1602D	0.00005	0.00002	0.004	No	24	66.67	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1602I	0.00005	0.000012	0.004	No	24	70.83	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603D	0.00005	0.000049	0.004	No	24	83.33	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603I	0.00005	0.00003	0.004	No	24	79.17	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603S	0.00005	0.00002	0.004	No	24	83.33	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604D	0.00005	0.00002	0.004	No	24	91.67	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604I	0.00005	0.000025	0.004	No	24	87.5	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604S	0.00005	0.00002	0.004	No	24	83.33	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605D	0.00005	0.000043	0.004	No	24	87.5	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605I	0.00005	0.00002	0.004	No	24	87.5	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605S	0.00005	0.00004	0.004	No	24	75	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 10/31/2023, 11:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium, total (mg/L)	MW-1606D	0.00005	0.000034	0.004	No	24	75	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606I	0.00005	0.00002	0.004	No	24	91.67	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606S	0.00005	0.000017	0.004	No	24	66.67	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1002	0.00004	0.00002	0.005	No	24	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1602D	0.00002	0.00001	0.005	No	24	75	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1602I	0.00002	0.000007	0.005	No	24	58.33	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603D	0.00002	0.000016	0.005	No	24	70.83	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603I	0.00002	0.000016	0.005	No	24	70.83	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603S	0.00003	0.000018	0.005	No	24	4.167	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1604D	0.00002	0.000008	0.005	No	24	83.33	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1604I	0.00002	0.000009	0.005	No	24	70.83	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1604S	0.00003	0.00002	0.005	No	24	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1605D	0.00002	0.000006	0.005	No	24	83.33	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1605I	0.00002	0.000008	0.005	No	24	62.5	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1605S	0.000041	0.000036	0.005	No	24	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1606D	0.00002	0.000007	0.005	No	24	87.5	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1606I	0.00002	0.00001	0.005	No	24	70.83	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1606S	0.00003869	0.00002154	0.005	No	24	0	None	ln(x)	0.01	Param.
Chromium, total (mg/L)	MW-1002	0.0002568	0.000121	0.1	No	24	4.167	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1602D	0.0003874	0.0001933	0.1	No	24	0	None	x^(1/3)	0.01	Param.
Chromium, total (mg/L)	MW-1602I	0.0002864	0.0001742	0.1	No	24	4.167	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1603D	0.0002497	0.0001543	0.1	No	23	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1603I	0.000404	0.0001709	0.1	No	24	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1603S	0.0003198	0.0001738	0.1	No	24	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1604D	0.0001966	0.0001135	0.1	No	24	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1604I	0.0002643	0.0001237	0.1	No	24	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1604S	0.0002857	0.0001373	0.1	No	24	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605D	0.0002599	0.0001465	0.1	No	24	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605I	0.0002492	0.0001231	0.1	No	24	4.167	None	ln(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605S	0.0006833	0.000302	0.1	No	24	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1606D	0.0002681	0.0001295	0.1	No	24	4.167	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1606I	0.0002985	0.0001498	0.1	No	24	8.333	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1606S	0.0004374	0.0002043	0.1	No	24	4.167	None	x^(1/3)	0.01	Param.
Cobalt, total (mg/L)	MW-1002	0.0007058	0.0005468	0.01	No	24	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1602D	0.0001482	0.00006667	0.01	No	24	0	None	ln(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1602I	0.001522	0.001295	0.01	No	24	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1603D	0.000584	0.000281	0.01	No	24	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1603I	0.00136	0.00117	0.01	No	24	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1603S	0.0004697	0.0002616	0.01	No	24	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1604D	0.000071	0.00005	0.01	No	24	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1604I	0.0008112	0.0006388	0.01	No	24	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1604S	0.000365	0.000285	0.01	No	24	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1605D	0.0001227	0.00006696	0.01	No	24	0	None	sqrt(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1605I	0.001467	0.001247	0.01	No	24	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1605S	0.000575	0.000355	0.01	No	24	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1606D	0.00008974	0.00005905	0.01	No	23	0	None	sqrt(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1606I	0.001355	0.001034	0.01	No	24	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1606S	0.000338	0.000051	0.01	No	24	4.167	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-1002	1.204	0.5131	5	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1602D	1.842	1.084	5	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1602I	1.343	0.9275	5	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603D	1.483	0.9063	5	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603I	1.668	1.084	5	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603S	1.116	0.5514	5	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604D	1.278	0.8047	5	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604I	1.586	0.9166	5	No	24	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604S	0.9187	0.4277	5	No	24	0	None	sqrt(x)	0.01	Param.

Appendix IV Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 10/31/2023, 11:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	MW-1605D	1.48	1.004	5	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605I	2.03	1.495	5	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605S	1.159	0.5085	5	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606D	1.37	0.809	5	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606I	1.459	0.8622	5	No	24	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606S	1.083	0.5158	5	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1002	1.016	0.8804	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1602D	0.3395	0.3146	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1602I	0.3021	0.2779	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603D	0.3003	0.2789	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603I	0.4369	0.4056	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603S	0.8515	0.5493	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604D	0.2806	0.2586	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604I	0.3682	0.3326	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604S	1.03	0.89	4	No	24	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	MW-1605D	0.221	0.199	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1605I	0.2179	0.1912	4	No	24	0	None	x^2	0.01	Param.
Fluoride, total (mg/L)	MW-1605S	0.5693	0.519	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606D	0.1939	0.1769	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606I	0.2128	0.1913	4	No	24	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606S	0.5065	0.4135	4	No	24	0	None	No	0.01	Param.
Lead, total (mg/L)	MW-1002	0.0002	0.00003	0.015	No	24	50	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1602D	0.0002	0.000036	0.015	No	24	45.83	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1602I	0.0001688	0.00006768	0.015	No	24	33.33	Kaplan-Meier	No	0.01	Param.
Lead, total (mg/L)	MW-1603D	0.0002	0.000029	0.015	No	23	43.48	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1603I	0.0001947	0.00004746	0.015	No	24	20.83	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead, total (mg/L)	MW-1603S	0.0002	0.00006	0.015	No	24	54.17	Kaplan-Meier	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1604D	0.0002	0.000022	0.015	No	24	45.83	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604I	0.0002	0.000024	0.015	No	24	45.83	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604S	0.0002	0.000045	0.015	No	23	52.17	None	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1605D	0.0002	0.000045	0.015	No	24	58.33	None	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1605I	0.0001303	0.0000659	0.015	No	24	16.67	Kaplan-Meier	No	0.01	Param.
Lead, total (mg/L)	MW-1605S	0.0001551	0.00003891	0.015	No	24	29.17	Kaplan-Meier	ln(x)	0.01	Param.
Lead, total (mg/L)	MW-1606D	0.0002	0.000023	0.015	No	24	54.17	None	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1606I	0.0002	0.000037	0.015	No	24	54.17	None	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1606S	0.0001608	0.00004496	0.015	No	23	39.13	Kaplan-Meier	No	0.01	Param.
Lithium, total (mg/L)	MW-1002	0.008865	0.004915	0.04	No	24	12.5	None	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1602D	0.005598	0.002569	0.04	No	24	4.167	None	ln(x)	0.01	Param.
Lithium, total (mg/L)	MW-1602I	0.008222	0.004802	0.04	No	24	4.167	None	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1603D	0.008	0.00326	0.04	No	24	8.333	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1603I	0.01054	0.006844	0.04	No	24	12.5	None	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1603S	0.00762	0.00354	0.04	No	24	12.5	None	x^(1/3)	0.01	Param.
Lithium, total (mg/L)	MW-1604D	0.009	0.00139	0.04	No	24	16.67	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1604I	0.009536	0.006134	0.04	No	24	4.167	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1604S	0.01224	0.009332	0.04	No	24	4.167	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1605D	0.005	0.00156	0.04	No	24	8.333	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1605I	0.008	0.00482	0.04	No	24	0	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1605S	0.01479	0.01115	0.04	No	24	4.167	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1606D	0.003	0.00048	0.04	No	24	16.67	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1606I	0.008	0.00319	0.04	No	24	4.167	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1606S	0.01122	0.008249	0.04	No	24	4.167	None	No	0.01	Param.
Mercury, total (mg/L)	MW-1002	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1602D	0.000005	0.000003	0.002	No	23	91.3	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1602I	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603D	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603I	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603S	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)

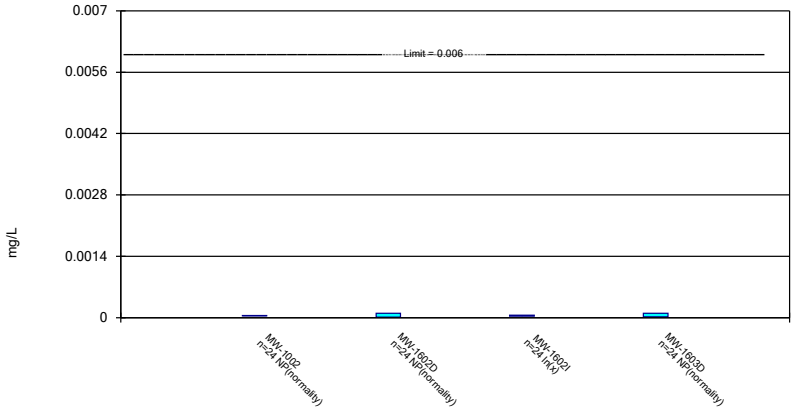
Appendix IV Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 10/31/2023, 11:38 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Mercury, total (mg/L)	MW-1604D	0.000005	0.000002	0.002	No	23	91.3	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604I	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604S	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605D	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605I	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605S	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606D	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606I	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606S	0.000005	0.000005	0.002	No	23	95.65	None	No	0.01	NP (NDs)
Molybdenum, total (mg/L)	MW-1002	0.00895	0.004512	0.1	No	24	0	None	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1602D	0.003645	0.003289	0.1	No	24	0	None	ln(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1602I	0.00223	0.00202	0.1	No	24	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1603D	0.004771	0.003826	0.1	No	24	0	None	ln(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1603I	0.00793	0.006201	0.1	No	24	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1603S	0.0006925	0.000284	0.1	No	24	16.67	Kaplan-Meier	x^(1/3)	0.01	Param.
Molybdenum, total (mg/L)	MW-1604D	0.0029	0.0025	0.1	No	24	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1604I	0.00261	0.002252	0.1	No	24	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1604S	0.003253	0.002438	0.1	No	24	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1605D	0.00221	0.00194	0.1	No	23	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1605I	0.001273	0.001109	0.1	No	23	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1605S	0.002015	0.001716	0.1	No	24	0	None	x^2	0.01	Param.
Molybdenum, total (mg/L)	MW-1606D	0.00207	0.00177	0.1	No	24	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1606I	0.001462	0.001124	0.1	No	23	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1606S	0.001351	0.001072	0.1	No	23	0	None	sqrt(x)	0.01	Param.
Selenium, total (mg/L)	MW-1002	0.00012	0.00007	0.05	No	24	20.83	None	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1602D	0.0005	0.00005	0.05	No	24	54.17	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1602I	0.0005	0.00006	0.05	No	24	54.17	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603D	0.0005	0.00009	0.05	No	24	62.5	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603I	0.0005	0.0001	0.05	No	24	70.83	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603S	0.0003158	0.0001128	0.05	No	24	12.5	None	x^(1/3)	0.01	Param.
Selenium, total (mg/L)	MW-1604D	0.0005	0.0001	0.05	No	24	83.33	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1604I	0.0005	0.00007	0.05	No	24	62.5	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1604S	0.0001403	0.00008053	0.05	No	24	4.167	None	No	0.01	Param.
Selenium, total (mg/L)	MW-1605D	0.0005	0.00005	0.05	No	24	70.83	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1605I	0.0005	0.00006	0.05	No	24	66.67	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1605S	0.0009379	0.000456	0.05	No	23	4.348	None	No	0.01	Param.
Selenium, total (mg/L)	MW-1606D	0.0005	0.0001	0.05	No	24	75	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1606I	0.0005	0.0001	0.05	No	24	79.17	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1606S	0.003922	0.002502	0.05	No	24	0	None	No	0.01	Param.
Thallium, total (mg/L)	MW-1002	0.0002	0.00004	0.051	No	24	58.33	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1602D	0.0002	0.000066	0.051	No	24	83.33	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1602I	0.0002	0.00003	0.051	No	24	58.33	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603D	0.0002	0.00006	0.051	No	24	70.83	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603I	0.0002	0.00004	0.051	No	24	58.33	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603S	0.0002	0.00003	0.051	No	24	58.33	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604D	0.0002	0.000095	0.051	No	24	83.33	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604I	0.0002	0.00002	0.051	No	24	58.33	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604S	0.0002	0.00004	0.051	No	24	54.17	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1605D	0.0002	0.00005	0.051	No	24	87.5	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1605I	0.0002	0.00003	0.051	No	24	50	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1605S	0.0002	0.00003	0.051	No	24	41.67	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1606D	0.0002	0.000124	0.051	No	24	83.33	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1606I	0.0002	0.00004	0.051	No	24	54.17	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1606S	0.0002	0.00003	0.051	No	24	62.5	None	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

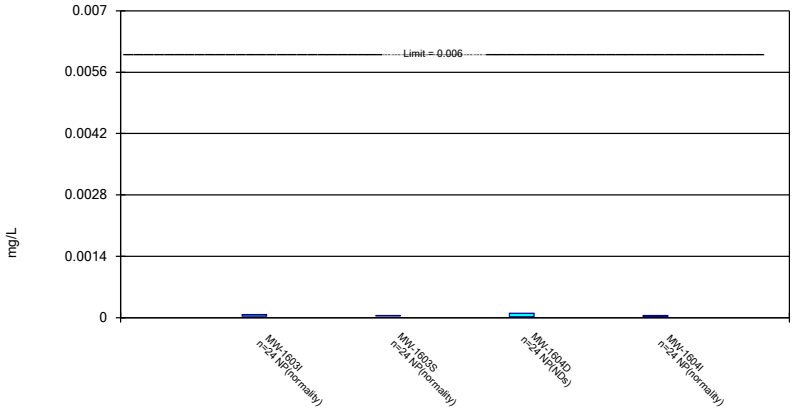
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

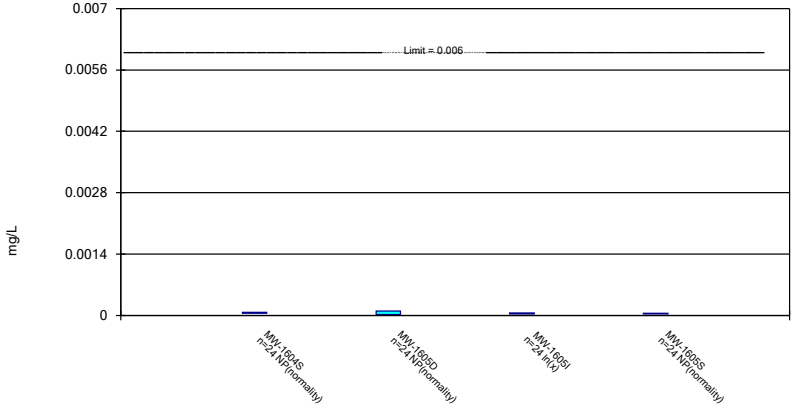
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

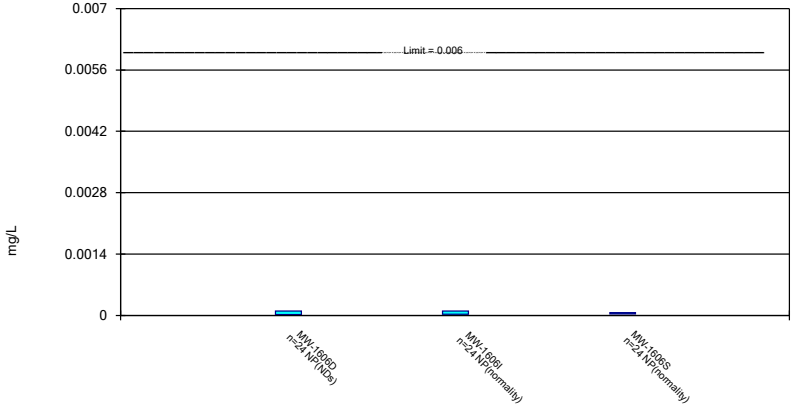
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

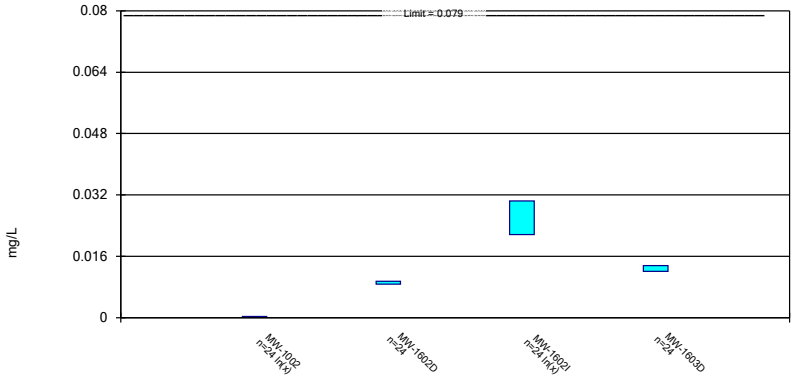
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

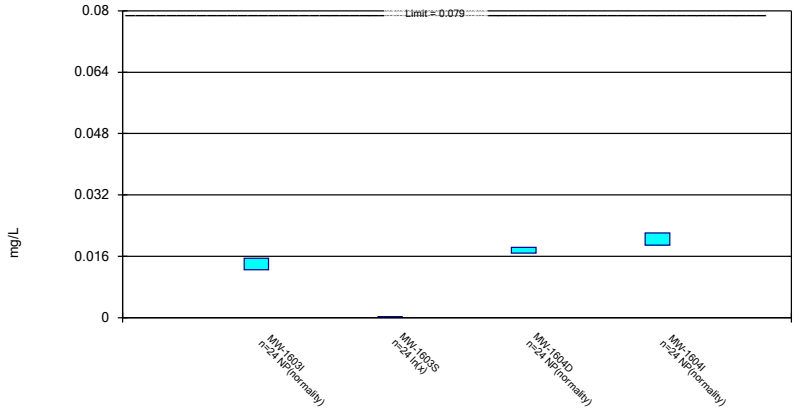
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

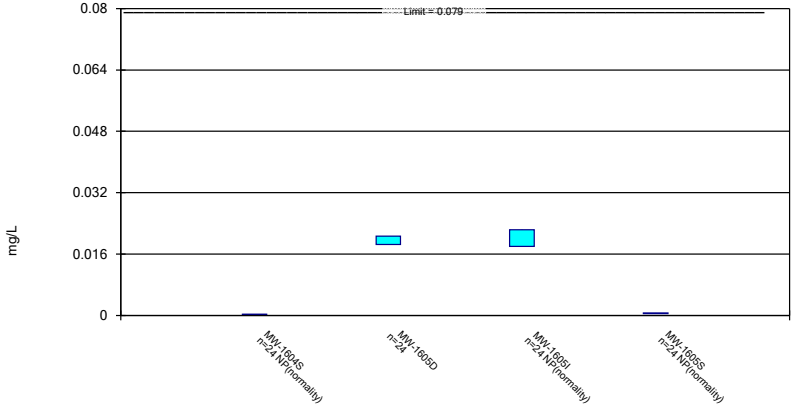
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

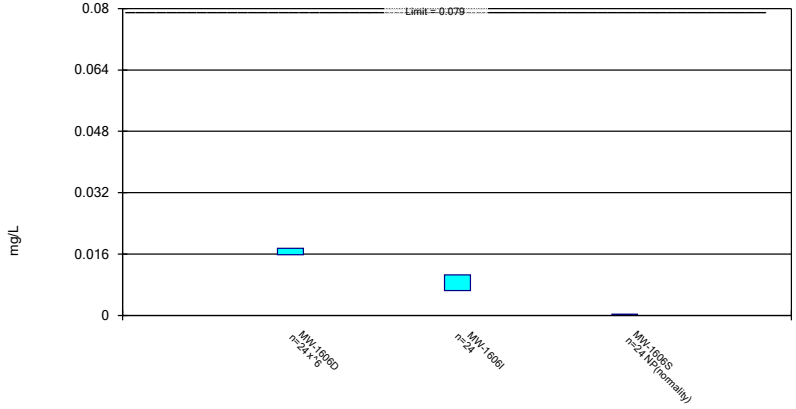
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

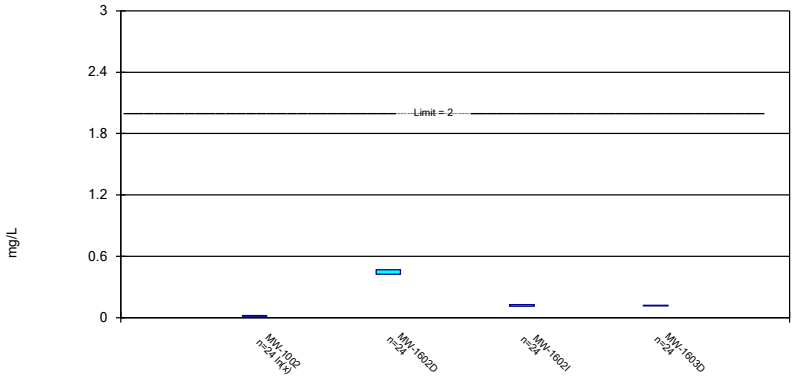


Constituent: Arsenic, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

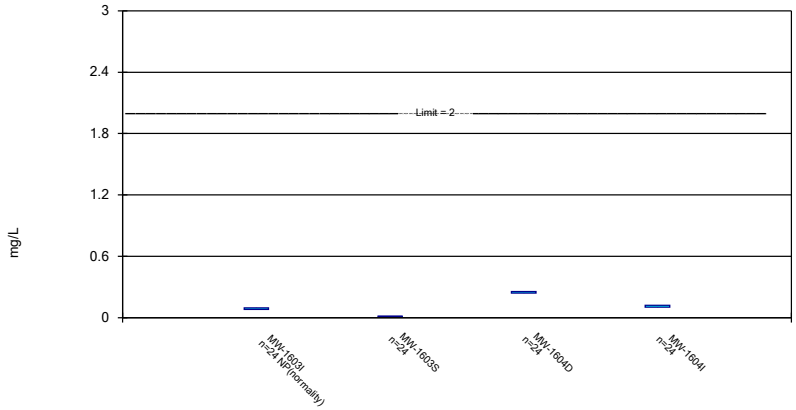


Constituent: Barium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

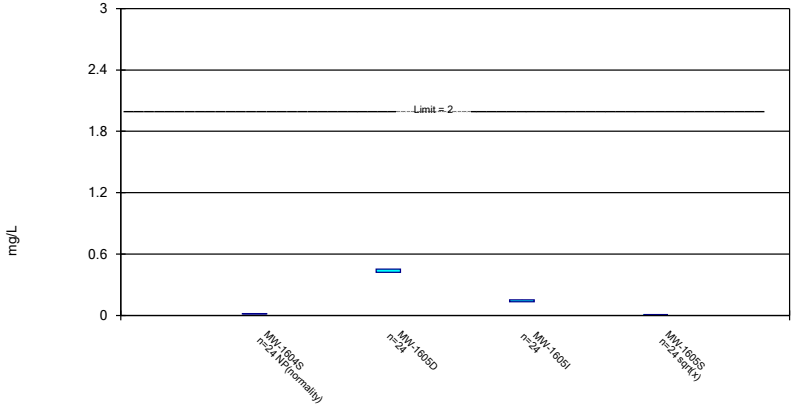


Constituent: Barium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

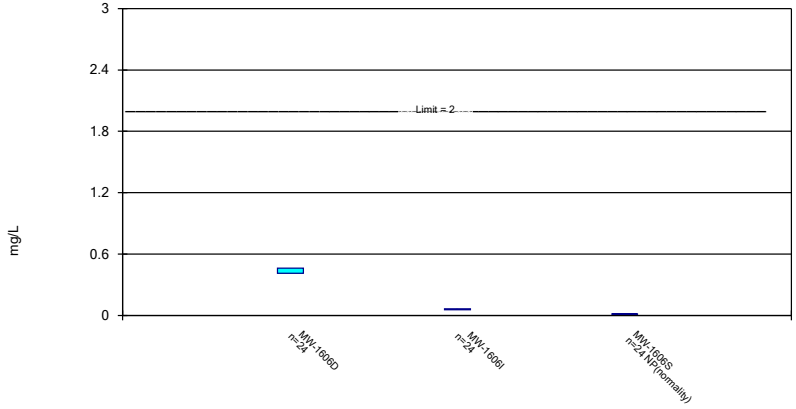


Constituent: Barium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

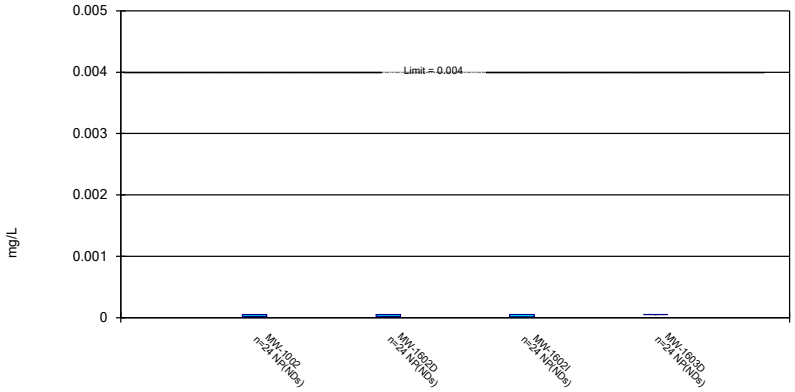


Constituent: Barium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

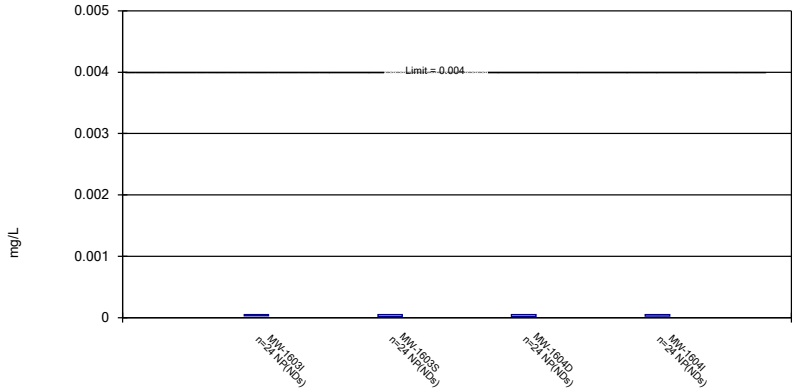


Constituent: Beryllium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

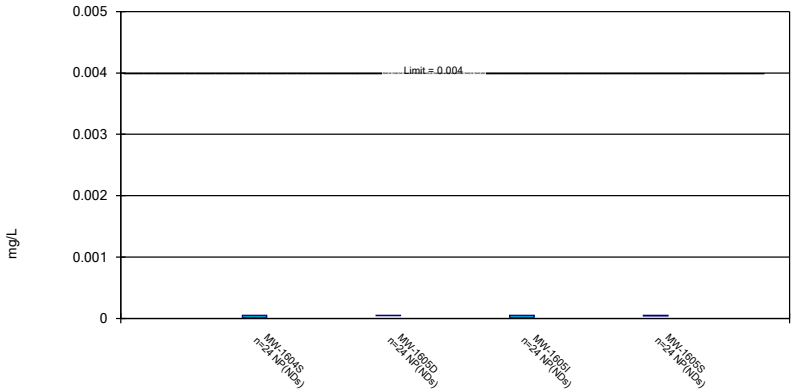


Constituent: Beryllium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

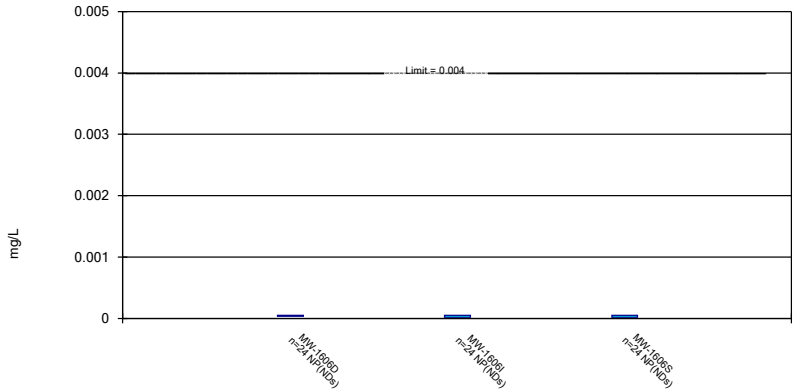


Constituent: Beryllium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

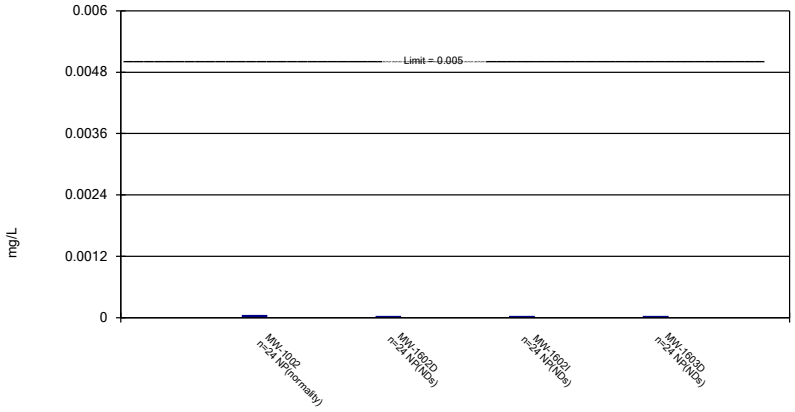


Constituent: Beryllium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

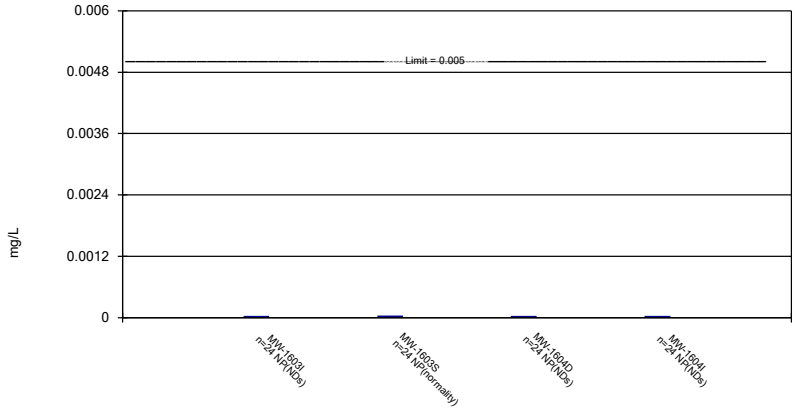


Constituent: Cadmium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

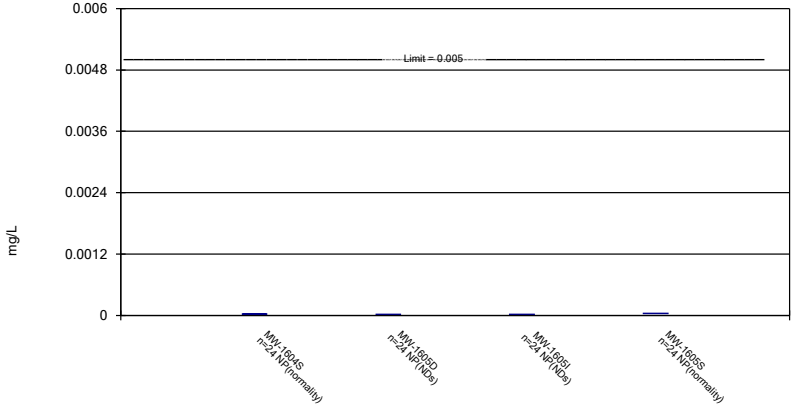


Constituent: Cadmium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

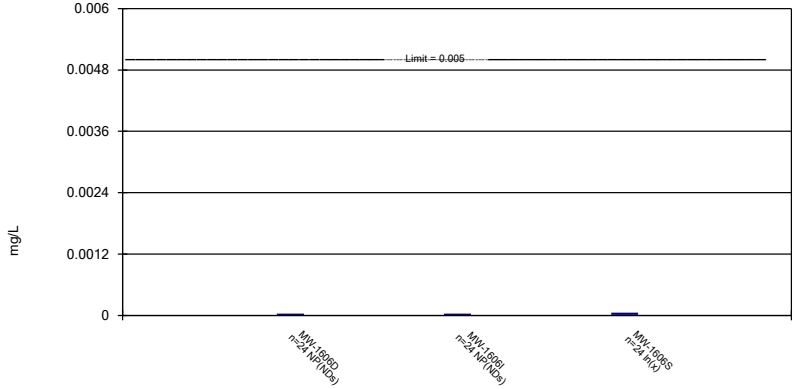


Constituent: Cadmium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

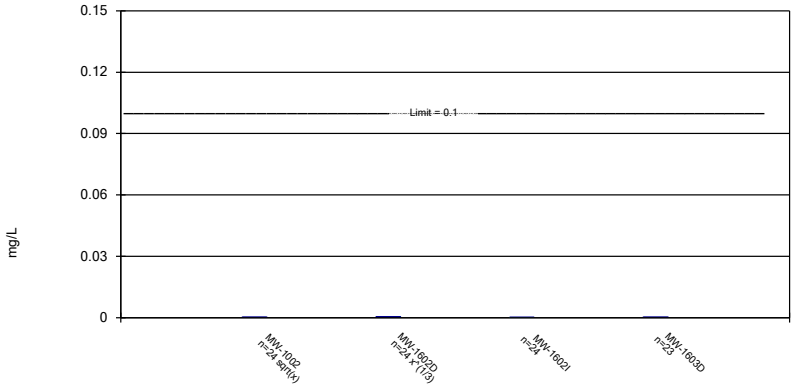
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

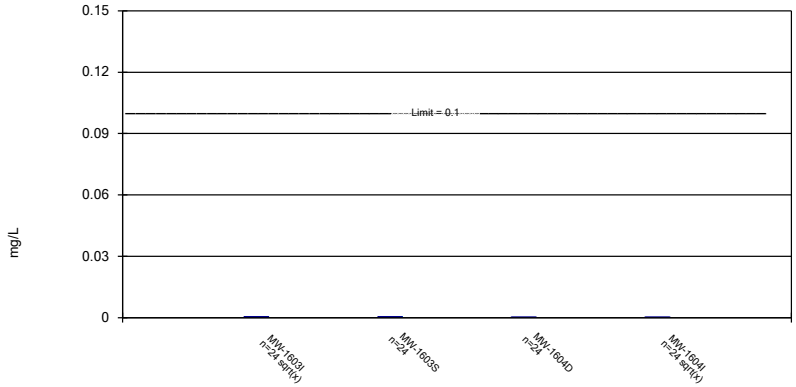


Constituent: Chromium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

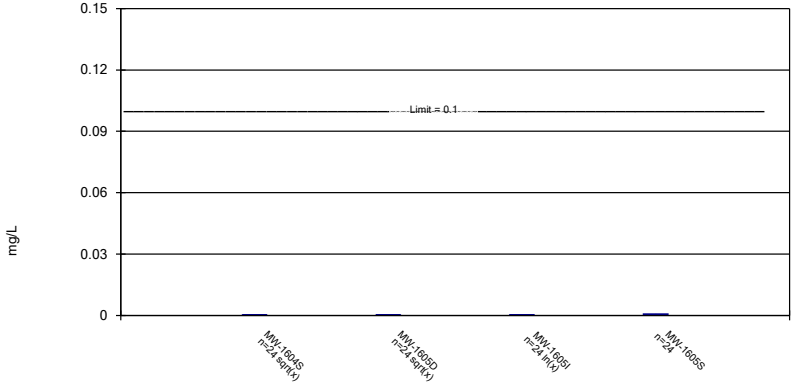


Constituent: Chromium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

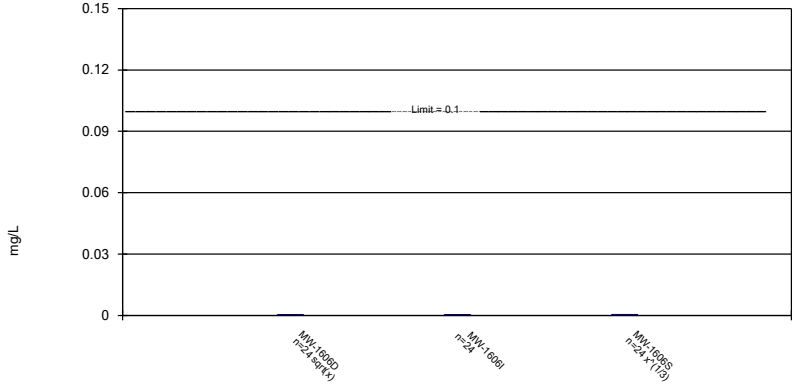


Constituent: Chromium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

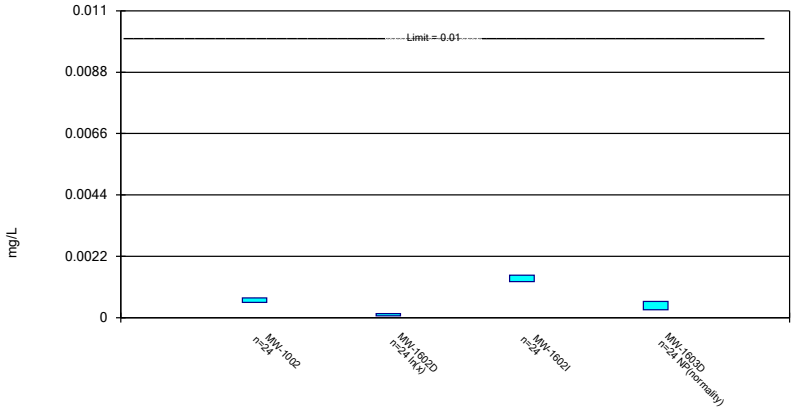


Constituent: Chromium, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

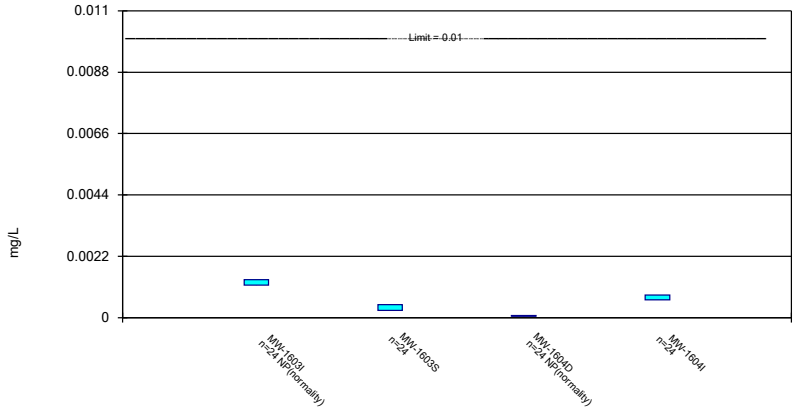


Constituent: Cobalt, total Analysis Run 10/31/2023 11:35 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

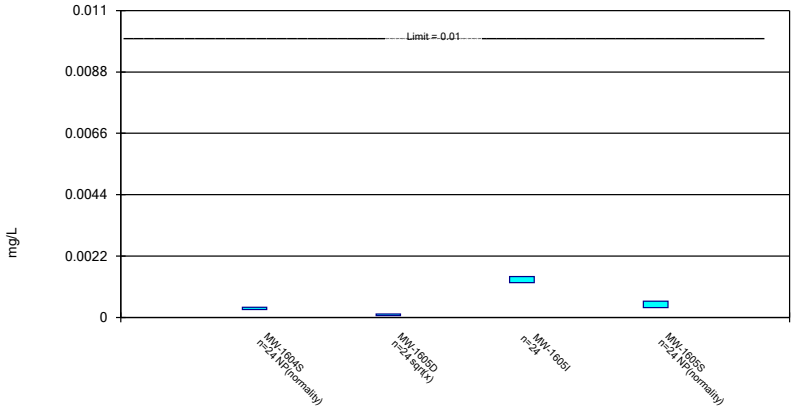


Constituent: Cobalt, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

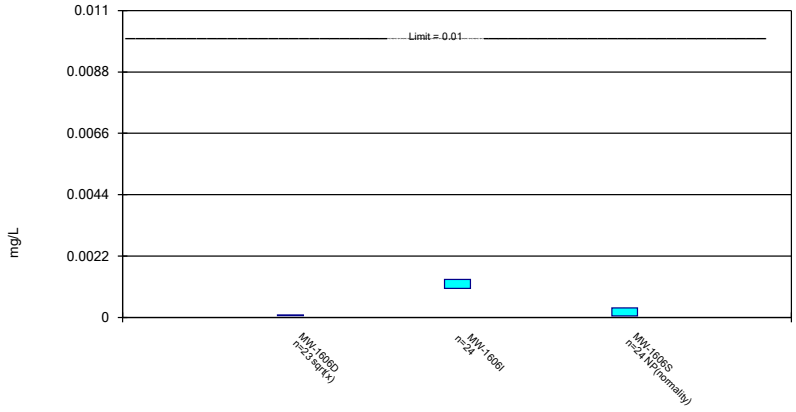


Constituent: Cobalt, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

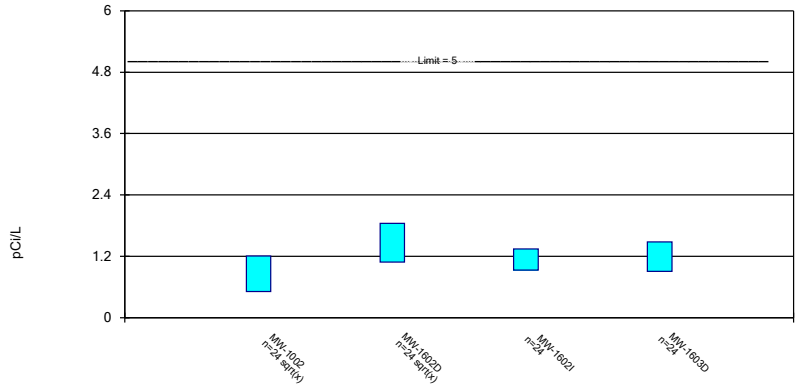
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

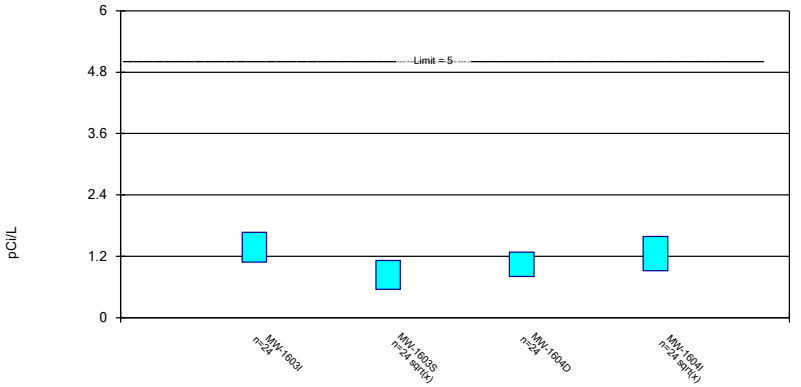


Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

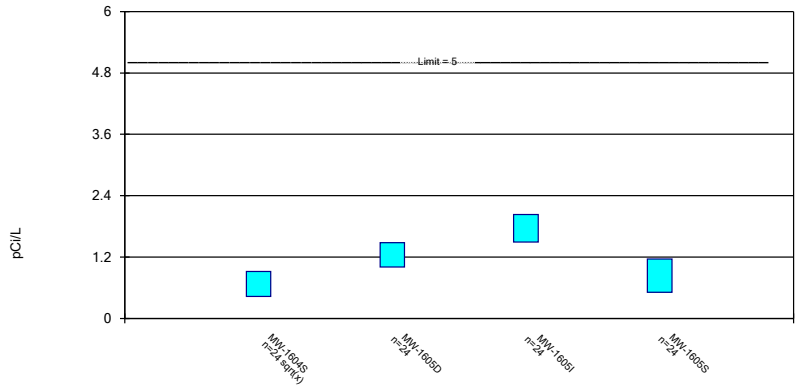


Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

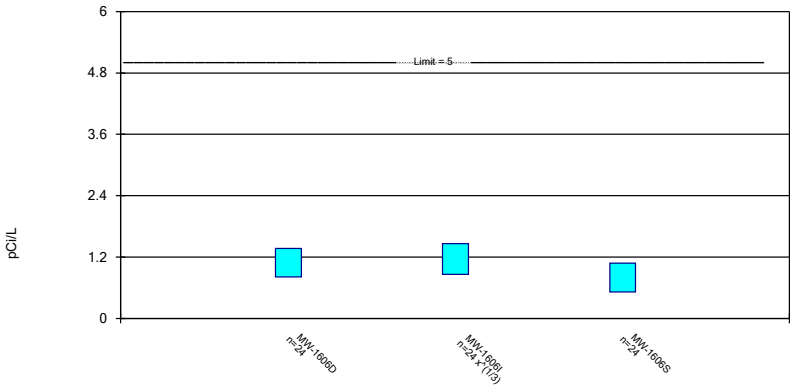


Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

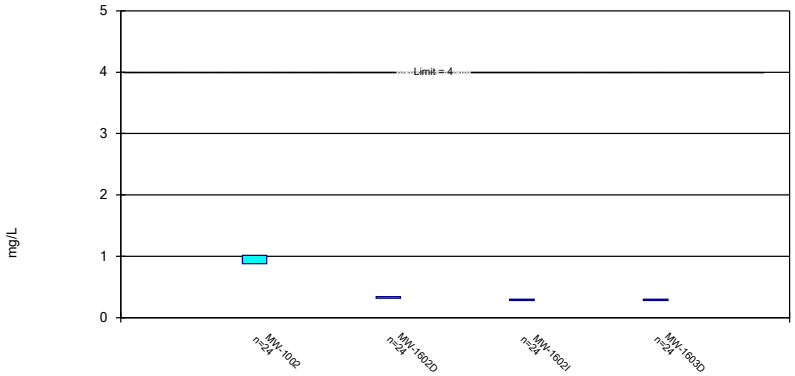
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

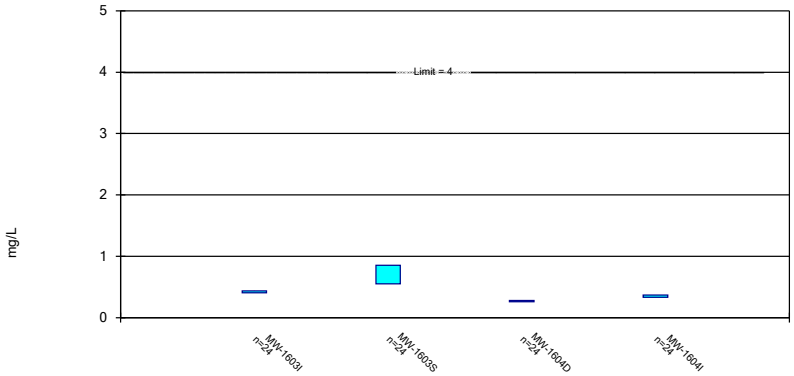


Constituent: Fluoride, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

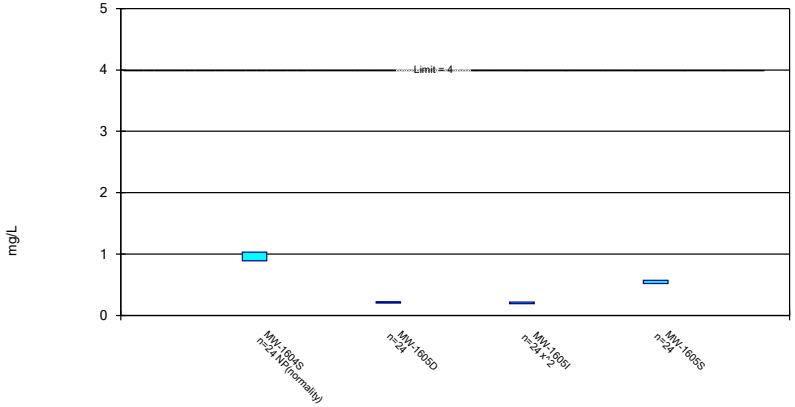


Constituent: Fluoride, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

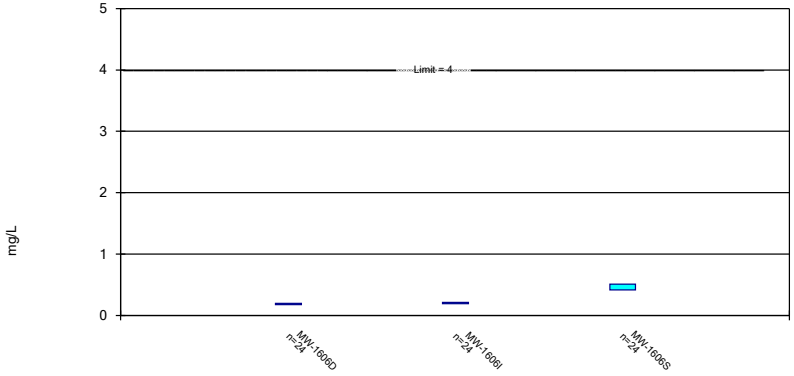


Constituent: Fluoride, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric Confidence Interval

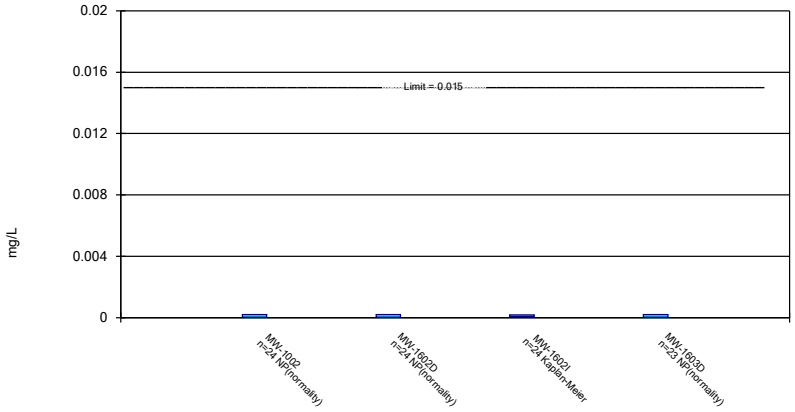
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

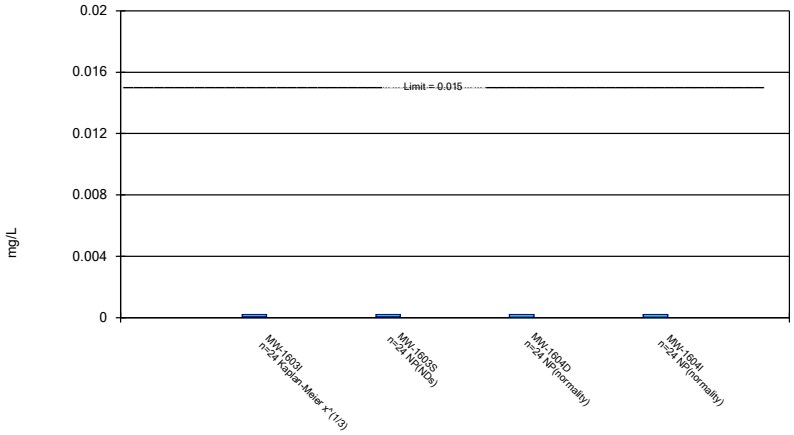


Constituent: Lead, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

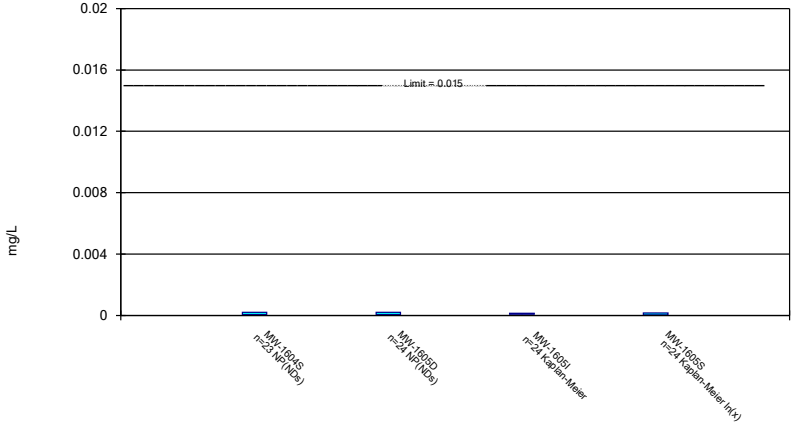


Constituent: Lead, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

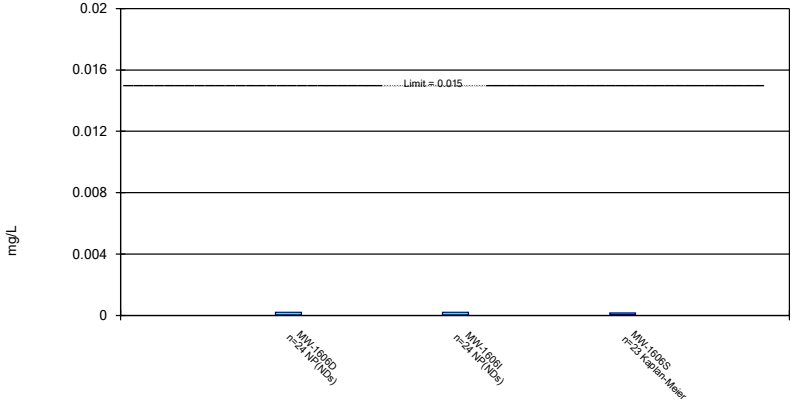


Constituent: Lead, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

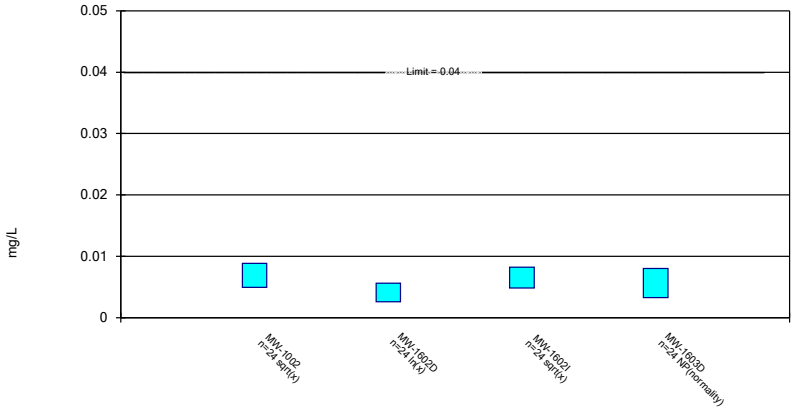
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

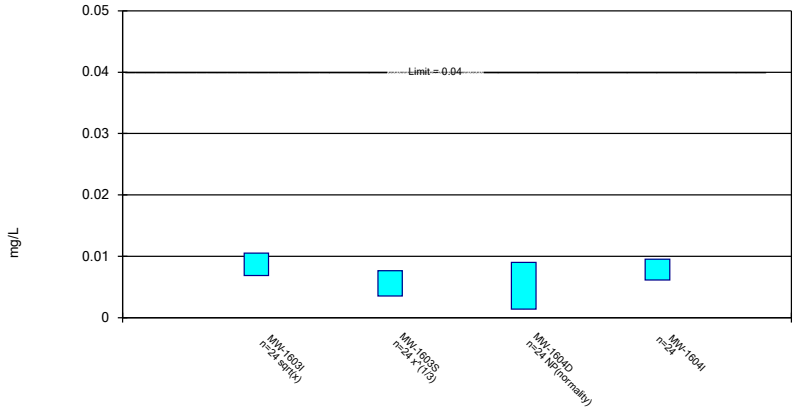


Constituent: Lithium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

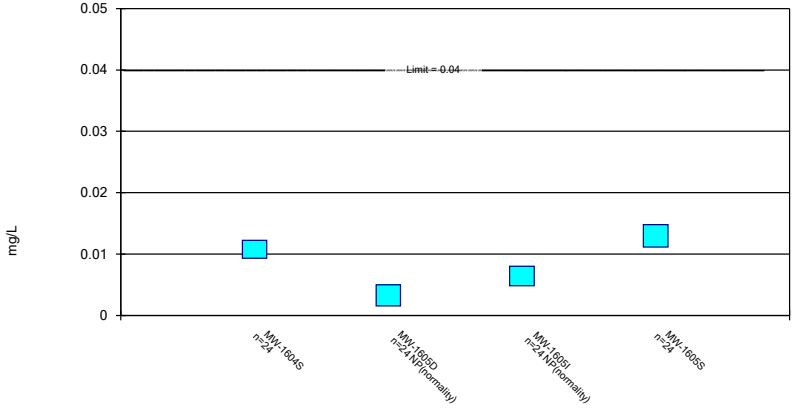


Constituent: Lithium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

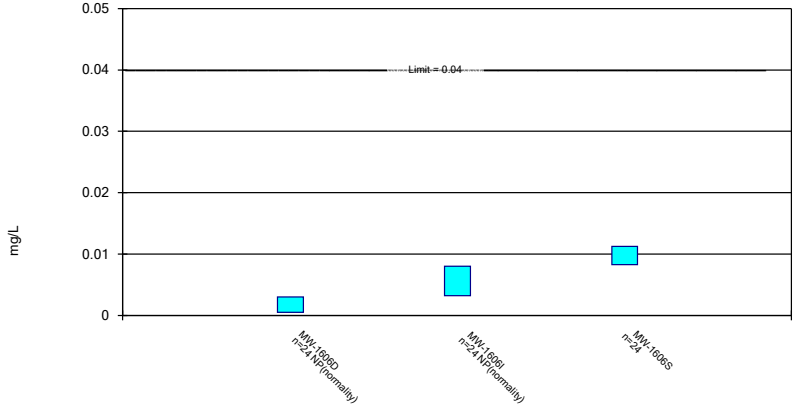


Constituent: Lithium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

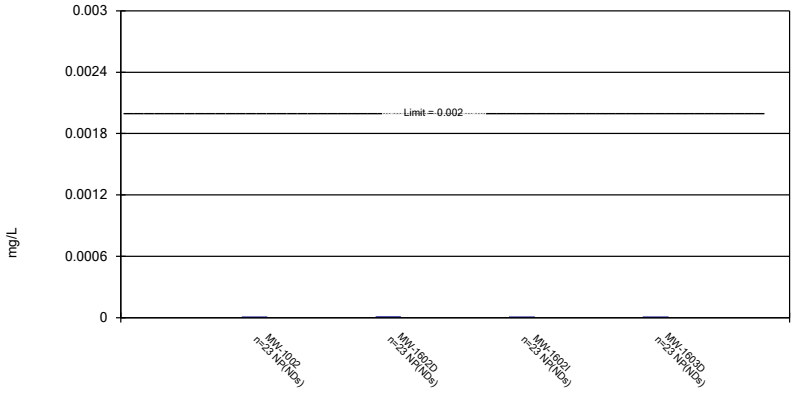


Constituent: Lithium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

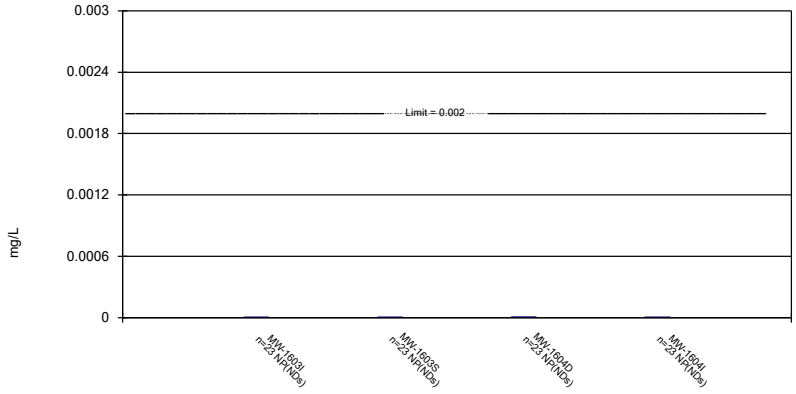


Constituent: Mercury, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

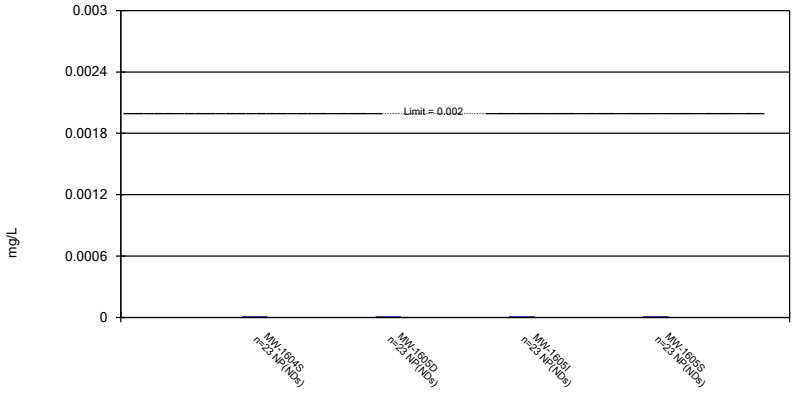


Constituent: Mercury, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

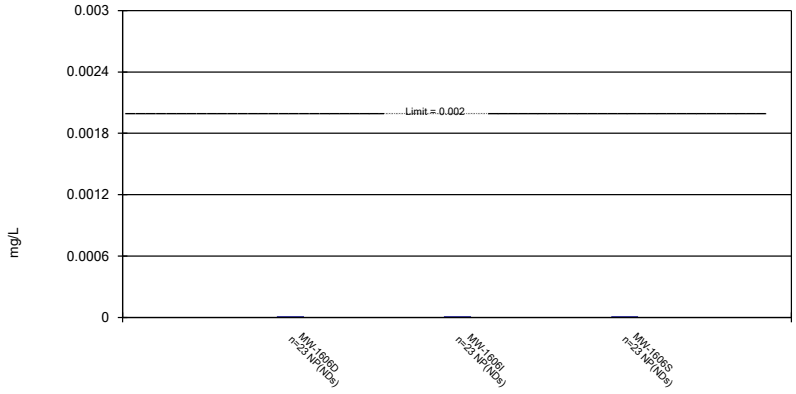


Constituent: Mercury, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

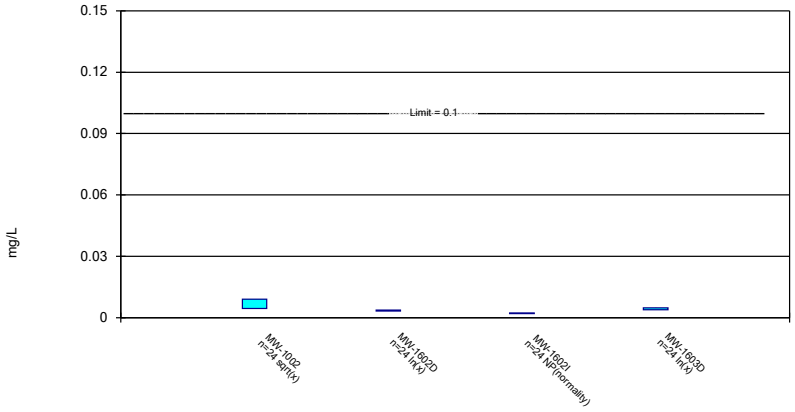
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

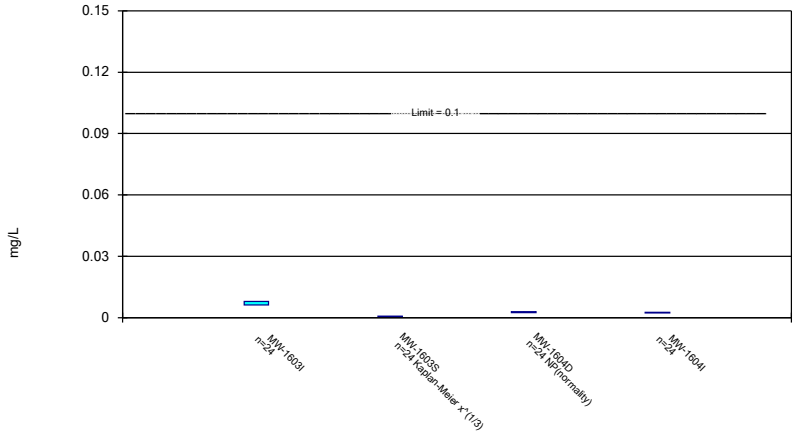


Constituent: Molybdenum, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

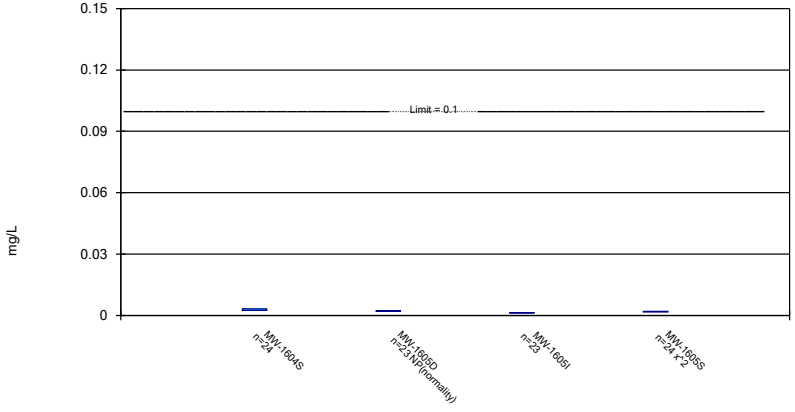


Constituent: Molybdenum, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

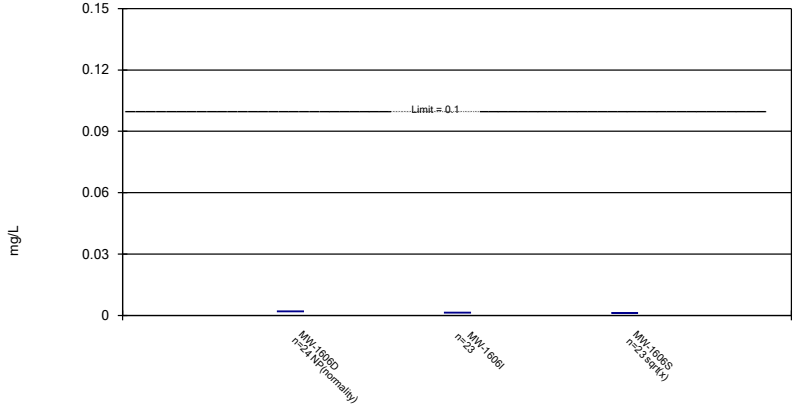


Constituent: Molybdenum, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

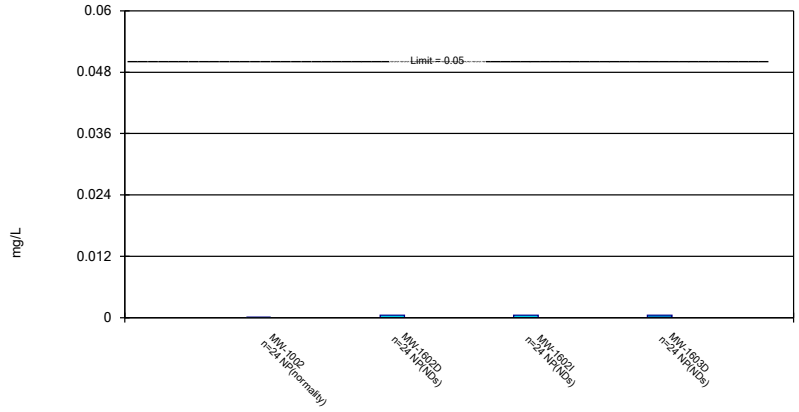
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

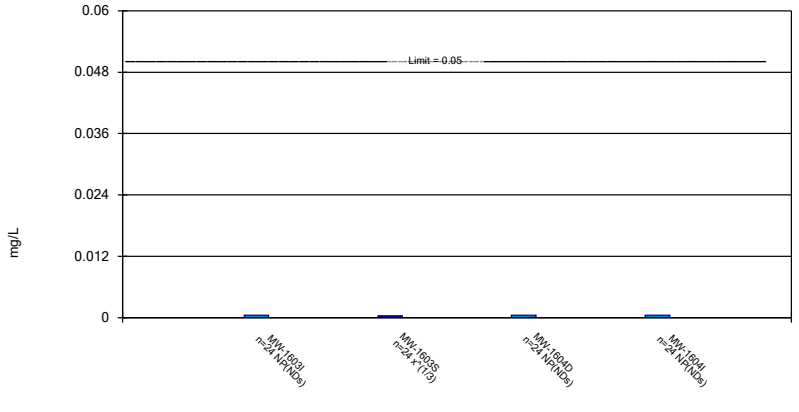
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

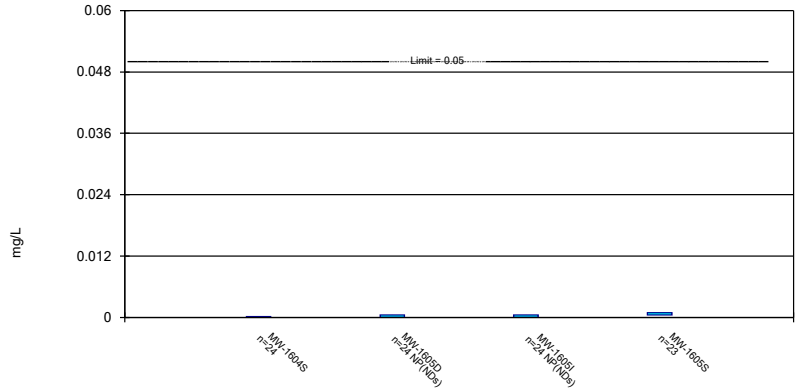
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

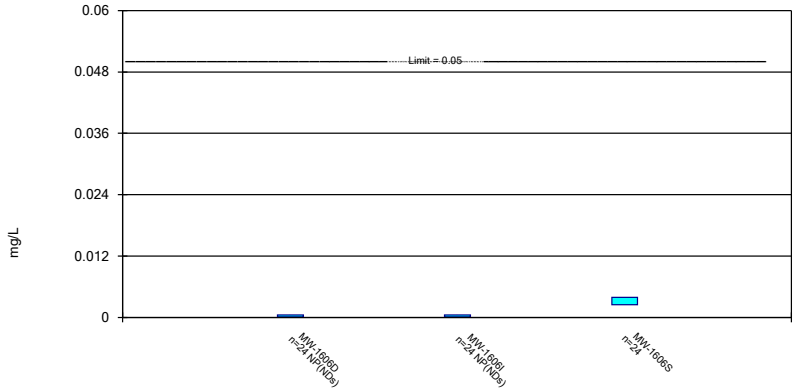
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

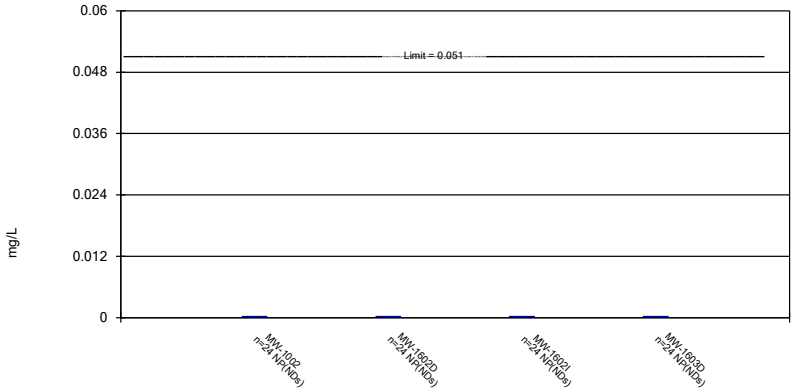


Constituent: Selenium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

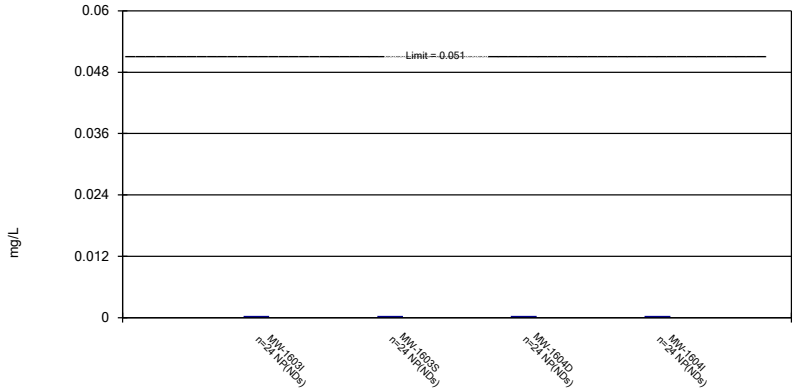


Constituent: Thallium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

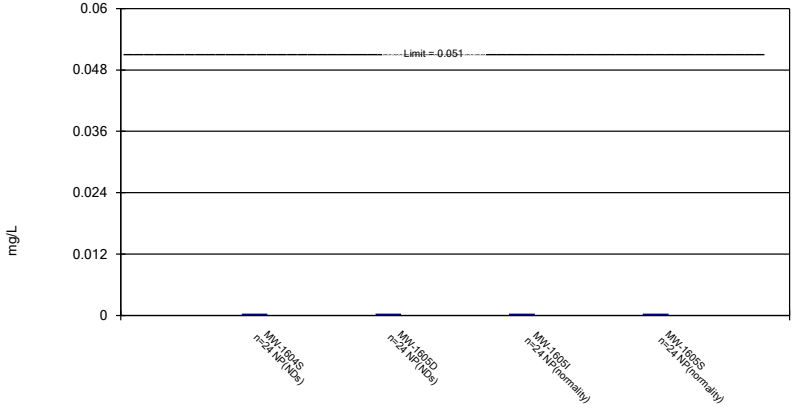


Constituent: Thallium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

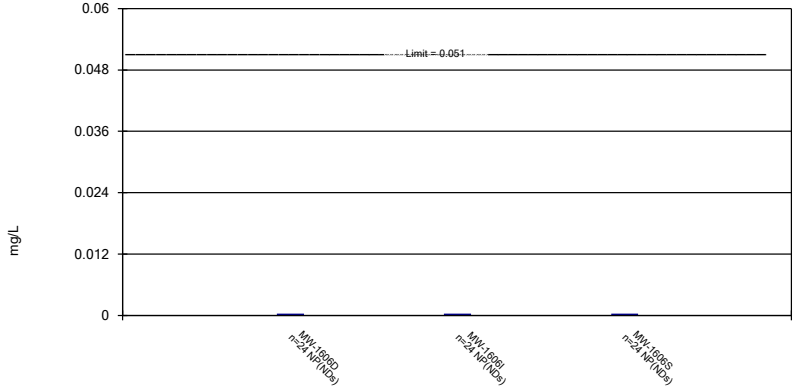


Constituent: Thallium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sanitas™ v.10.0.13b Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, total Analysis Run 10/31/2023 11:36 AM View: Confidence Intervals
Rockport BAP Client: Geosyntec Data: Rockport_BAP

APPENDIX 3 – Alternate Source Demonstrations

No new alternate source demonstrations have been completed as of January 31, 2024.

APPENDIX 4 – Notices for Monitoring Program Transitions

The notification that an assessment monitoring program was initiated follows.

Rockport Plant Bottom Ash Pond

Notice of Assessment Monitoring Initiation

On January 15, 2018, it was determined that the Rockport Plant's Bottom Ash Pond Complex had statistically significant increases over background for the Appendix III parameters of boron, chloride, fluoride, pH, TDS, and sulfate. An alternative source demonstration was not successful within the 90 day period as allowed for in 257.94(e)(2). Therefore, an assessment monitoring program was established at Rockport's bottom ash pond complex on April 15, 2018 and this notice is being placed in Rockport's operating record in accordance with the requirement in 257.94 (e)(3).

APPENDIX 5 – Well Installation/Decommissioning Logs

There were no wells installed or decommissioned during the reporting period.