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October 25, 2018

Mr. Leo Hellested, P.E. Office of Waste Management Solid Waste Section Rhode Island Department of Environmental Management 235 Promenade Street Providence, Rhode Island 02908-5767

Attn: Mr. Robert Schmidt

Re: Quarterly Monitoring Report 3rd Quarter (September) 2018, Groundwater Monitoring, Sampling, and Analysis Tiverton Municipal Sanitary Landfill Pare Project No.: 94139.24

Dear Mr. Hellested:

Enclosed herewith are results of the statistical analysis of groundwater monitoring data for the third quarterly monitoring round of Year 2018 from the Tiverton Landfill (Landfill). Pare Corporation (Pare) has prepared this report on behalf of the Town of Tiverton (Town). In the 2017 Annual Groundwater Monitoring Report, Pare recommended that overburden well OW-7 and bedrock well OW-16 be included in the groundwater monitoring program. As such, Pare conducted the groundwater sampling on September 27, 2018 at the compliance wells OW-7, OW-12, OW-13, OW-15, and OW-16. Pare was unable to retrieve groundwater samples at the background well OW-9 and compliance well OW-14 due to dry conditions.

Groundwater samples were analyzed by New England Testing Laboratory (NETLAB) of West Warwick, Rhode Island for the constituents listed in Appendix A (Detection Monitoring) of the State Solid Waste Regulations. Certified laboratory results data are enclosed and are summarized on attached Tables 1-3.

Groundwater field parameters consisting of temperature, pH, and specific conductivity were measured at each monitoring well, in accordance with the RIDEM-approved Groundwater Monitoring Plan for the Landfill. Field parameters were collected until three successive measurements stabilized within \pm 3% for temperature, \pm 0.1 standard unit for pH, and \pm 3% for specific conductivity, in accordance with US EPA's Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures. Field parameters are documented on Field Sampling Data Sheets, which are enclosed. pH was unable to be monitored at the Landfill in September 2018 due to a malfunction of the equipment at the time of sampling.

Combustible gases are monitored at each well and at the top of the Landfill. Combustible gases were unable to be monitored at the Landfill in September 2018 due to a malfunction of the gas monitoring equipment at the time of sampling.

Recent sampling rounds have been during periods of dry conditions; as such, samples collected contained a high amount of silt and suspended particles. Reported concentrations of heavy metals were higher than usual, and the degree of suspended particles observed in the samples may have impacted heavy metal concentrations.



Mr. Leo Hellested, P.E.

Pare believes these results were an anomaly and not indicative of typical groundwater quality. Therefore, Pare updated the groundwater monitoring program in the 2016 Annual Groundwater Monitoring Report to include a 10-15 settling minute period for turbidity to drop out of suspension, before the sample is decanted and then stored in laboratory glassware with preservative. Additionally, during the March 2017 monitoring round, accumulated sediment in the bottom of wells at the Landfill was removed prior to sampling.

HUMAN HEALTH THRESHOLD EVALUATION

<u>Compliance Well OW-7</u> – Nine (9) target metals were reported in the groundwater sample collected from OW-7. No (0) target metals were reported above their corresponding MCLs or human health thresholds at OW-7. One (1) target VOC, MTBE, was reported above laboratory detection limits. No (0) target VOCs were reported above their corresponding MCLs or human health thresholds at OW-7.

<u>Compliance Well OW-12</u> – Six (6) target metals were reported in the groundwater sample collected from OW-12. No (0) target metals were reported above their corresponding MCLs or human health thresholds at OW-12. No (0) target VOCs were reported above laboratory detection limits at OW-12.

<u>Compliance Well OW-13</u> – Nine (9) target metals were reported in the groundwater sample collected from OW-13. One (1) reported metal, arsenic (0.01 mg/L), was reported at its MCL (0.01 mg/L). No (0) target VOCs were reported above laboratory detection limits at OW-13.

<u>Compliance Well OW-14</u> – No samples were collected from OW-14 due to dry conditions.

<u>Compliance Well OW-15</u> – Nine (9) target metals were reported in the groundwater sample collected from OW-15. Two (2) reported metals; arsenic (0.03 mg/L) and cadmium (0.007 mg/L); exceeded their MCLs (0.01 mg/L and 0.005 mg/L, respectively). Two (2) target VOCs; chlorobenzene and MTBE; were reported above their laboratory detection limits. No (0) target VOCs were reported above their corresponding MCLs or human health thresholds at OW-15.

<u>Compliance Well OW-16 (new bedrock well)</u> – Six (6) target metals were reported in the groundwater sample collected from OW-16. No (0) target metals were reported above their corresponding MCLs or human health thresholds at OW-16. One (1) target VOC, MTBE, was reported above laboratory detection limits. No (0) target VOCs were reported above their corresponding MCLs or human health thresholds at OW-16.

Background Well OW-9 – No samples were collected from OW-9 due to dry conditions.



October 25, 2018

TOLERANCE INTERVAL STATISTICAL EVALUATION

The Tolerance Interval (TI) approach was used to develop Tolerance Limits (TLs) for each target inorganic constituent (i.e., metals) using the background well analytical results from the eight preceding rounds for which analytical results are available. The background well, OW-9, could not be sampled in this monitoring round along with several previous monitoring rounds including in the June 2016, September 2016, June 2017, and September 2017 monitoring rounds due to dry conditions. Therefore, analytical results of the eight most recent rounds in which samples could be collected were utilized to generate the TLs for this monitoring round, dating back to March 2015. The TI approach is considered inappropriate for analysis of organic constituents and was therefore not performed to evaluate the results of reported VOCs. Table 2 summarizes historical results data from OW-9 used in the calculation of the TLs.

Four (4) of the metals concentration reported in September 2018; arsenic, barium, cobalt, and vanadium; exceeded their corresponding TLs calculated during this monitoring round in at least one compliance well. In total, there were eight (8) TL exceedances of these metals in this monitoring round. The TLs and the corresponding compliance well data from this monitoring round are presented in Table 3. Each of these metals is routinely detected in groundwater beneath the landfill.

CUSUM METHOD STATISTICAL EVALUATION

The Shewhart-CUSUM Method, a supplemental statistical analysis method used in addition to the TI Method, was performed in accordance with the US EPA documents titled "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Interim Final Guidance, April 1989" and "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Addendum to Interim Final Guidance, July, 1992".

Barium and nickel at OW-12 exceeded both of their respective Shewhart-CUSUM thresholds during the September 2018 monitoring round.

The dry conditions present during the September 2016 monitoring round were believed by Pare to have resulted in higher than usual suspended solids in samples collected, which are believed to have also resulted in atypical metals concentrations. As a result, the results of the Shewhart-CUSUM analysis for September 2016 were believed to be an anomaly. In many cases these deviations are outside of the statistical range expected. With the inception of the updated groundwater monitoring program, Pare has reset the Shewhart-CUSUM levels for several metals at multiple wells in order to have an accurate representation of cumulative statistical analysis of these constituents. The metals that have had their Shewhart-CUSUM thresholds reset include: chromium, lead, nickel, vanadium, and zinc at OW-12; barium, cadmium, cobalt, copper, lead, and vanadium at OW-13; zinc at OW-14; and arsenic, cadmium, chromium, cobalt, lead, nickel, vanadium, and zinc at OW-14 is due to a statistical spike in the Shewhart-CUSUM limit during the September 2015 monitoring round (which was also sampled during dry conditions). These Shewhart-CUSUM parameters were reset prior to the March 2017 sampling round; therefore, data recorded from the March 2017 monitoring round is present in the analysis.



ASSESSMENT MONITORING

The Shewhart-CUSUM analysis is utilized, along with the Tolerance Limits, to identify when Assessment Monitoring should be performed.

Pare performed Assessment Monitoring at OW-14 in the December 2017 monitoring round due to an exceedance of the Shewhart-CUSUM threshold of antimony in the June 2017 monitoring period. This Assessment Monitoring was delayed from September 2017 to December 2017 due to dry conditions in September, rendering a sample unattainable. One Appendix B parameter, sulfides (0.04 mg/L), was detected in the December 2017 monitoring round. In the 2017 Annual Groundwater Monitoring report, Pare recommended that groundwater samples from OW-14 in the March 2018 monitoring round be tested again for sulfides. Again, the Appendix B parameter sulfides (0.04 mg/L) was detected in the samples collected from OW-14 in March 2018.

Pare performed Assessment Monitoring at OW-13 in the June 2018 monitoring round due to an exceedance of both the TL and the Shewhart-CUSUM threshold of barium in the March 2018 monitoring round. No (0) Appendix B parameters were reported in samples collected from OW-13. Sulfides were not detected at OW-13 in the June 2018 monitoring round.

Pare attempted to sample OW-14 in the September 2018 monitoring round to test for sulfides; however, a sample was unobtainable due to dry conditions.

MTBE ANALYSIS

Many of the most recent Assessment Monitoring rounds have been conducted due to MTBE concentrations in groundwater. Reported MTBE concentrations have generally risen since September 2006, as depicted in the attached figure titled Reported Concentrations of MTBE. The figure compares the recent increases in reported MTBE concentrations at OW-13, OW-14 and OW-15 to historical concentrations and drinking water advisories defined in the US EPA document titled "2011 Edition of the Drinking Water Standards and Health Advisories". Although reported MTBE concentrations appear to be trending slowly upward, MTBE has never been reported above its odor threshold (0.020 mg/L) or its taste threshold (0.040 mg/L). The US EPA has not established a human health advisory concentration for MTBE.

Because the elevated concentrations of MTBE have recently triggered Assessment Monitoring at OW-13, OW-14, and OW-15, and that no Appendix B parameters were reported to a significant degree at these wells, it is Pare's opinion that the increasing trend in MTBE concentrations beneath the Landfill is an isolated phenomenon and not the result of a significant change in groundwater quality beneath the Landfill.

Despite CUSUM values of MTBE at OW-13, OW-14, and OW-15 remaining above their threshold during the September 2017 monitoring round, Pare does not recommend assessment monitoring due to the aforementioned MTBE trend. The lack of Appendix B parameters in the past, in conjunction with the lack of Appendix B parameters at OW-13 and OW-15 during the December 2016 monitoring round, and the lack of Appendix B parameters at OW-14 during the June 2016 monitoring round, suggests that the presence of MTBE trend does not indicate an increased likelihood that Appendix B parameters would be present beneath the Landfill.



CONCLUSIONS AND RECOMMENDATIONS

Currently, the Landfill conducts Detection Monitoring for the parameters listed in Appendix A of the State Solid Waste Regulations, as well as mercury and tin. During this monitoring round, four (4) metals; arsenic, barium, cobalt and vanadium; exceeded their tolerance limits (TLs) in at least one well. Arsenic, barium and cobalt also exceeded their TLs during the previous monitoring round at OW-13 and OW-15. TL exceedances in two consecutive monitoring rounds is one of the criteria used to consider introducing Assessment Monitoring in subsequent monitoring rounds.

Pare does not recommend Assessment Monitoring at the Landfill during the upcoming December 2018 monitoring round as the criteria to warrant Assessment Monitoring were not met in the September 2018 monitoring round.

During the 2016 and 2017 monitoring periods, a rising trend in detections of antimony at the compliance wells became apparent. Antimony was detected at the background well above its MCL during the December 2017 monitoring round. Previously, antimony had not been detected at the background well since the September 2011 monitoring round. The detection of antimony at compliance well OW-14 in the June 2017 monitoring round triggered Assessment Monitoring, which was performed in the December 2017 monitoring round. The Assessment Monitoring resulted in detection of one Appendix B parameter, sulfides (0.04 mg/L). However, antimony was not detected at any groundwater well during the December 2017 monitoring period. Analysis of the samples collected from OW-14 during the March 2018 monitoring round indicated another detection of sulfides (0.04 mg/L). Assessment Monitoring was not performed at OW-14 in June but was performed at OW-13. Sulfides were not detected in the Assessment Monitoring performed at OW-13 during the June 2018 monitoring round.

The EPA has no MCL for sulfides in groundwater. Water with dissolved hydrogen sulfide will smell musty or swampy around 0.5-1.0 mg/L and Pare did not identify a noticeable smell emanating from the groundwater sample in either round during which the constituent was detected. Hydrogen sulfide gas can occur naturally in groundwater from plant materials rotting underground in anaerobic conditions. Hydrogen sulfide gas could also be resulting from gypsum buried at the Landfill. Pare recommends that sulfides be again tested for at OW-14 in the December 2018 monitoring round as a sample was unobtainable in the September 2018 monitoring round due to dry conditions. Additionally, Pare recommends that the Town consider adding regular analysis of sulfides to the groundwater monitoring program.

Pare recommended that wells OW-7 and OW-16 be incorporated into the compliance monitoring regimen in the 2017 Annual Groundwater Monitoring Report. Despite OW-7 having several years of sampling data, the sampling rounds were selected on a rotating basis with wells OW-6 and OW-8 for alternate monitoring. Pare recommends that wells OW-7 and OW-16 be sampled for two years, or eight consecutive monitoring rounds, prior to initiating statistical analysis. The June 2018 monitoring period marks the second monitoring round that these wells are to be sampled consistently; therefore, it is estimated that statistical analysis for the bedrock and overburden wells will begin in the March 2020 monitoring round.



Samples have been unable to be collected at the background well OW-9 in recent monitoring rounds. Dating back to June 2016, five out of the last ten monitoring rounds have resulted in a dry well. The tolerance interval analysis is dependent on data collected from the background well; therefore, uncharacteristic TL exceedances may be a result of the lack of recent historical data from this well. Pare will be able to more accurately assess this potential changing trend in groundwater quality with more data collection from the background well.

Recent monitoring rounds also indicate there is an increasing trend of barium and cadmium in groundwater at the Landfill. However, Assessment Monitoring triggered by exceedances of barium and cadmium have resulted in no (0) detections of Appendix B parameters. Pare will continue to evaluate antimony, barium, cadmium, and sulfides trends at the Landfill in subsequent monitoring rounds.

Should the RIDEM have any questions regarding this letter or the attached data, please feel free to contact the undersigned at (401) 334-4100, thank you.

Very truly yours,

Timothy P. Thies, P.E. Vice President

TPT/TCJ/abv

Attachments

cc: Richard Rogers, Tiverton Public Works Director (w/encl.) Jay Lambert, Tiverton Landfill Subcommittee (w/encl.) Jan Reitsma, Tiverton Town Administrator (w/encl.) Travis C. Johnson, Pare Corporation (w/o encl.) George G. Palmisciano, P.E. Pare Corporation (w/o encl.)

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<u>ATTACHMENT NO. 1</u> LABORATORY ANALYTICAL DATA REPORT



REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 8l28041 Client Project: 94139 - Tiverton Landfill

Report Date: 05-October-2018

Prepared for:

Travis Johnson Pare Corporation 8 Blackstone Valley Place Lincoln, RI 02865

Richard Warila, Laboratory Director New England Testing Laboratory, Inc. 59 Greenhill Street West Warwick, RI 02893 rich.warila@newenglandtesting.com

Samples Submitted:

The samples listed below were submitted to New England Testing Laboratory on 09/28/18. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 8I28041. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
8128041-01	OW-12	Water	00/27/2019	00/20/2010
0120041-01	000-12	Waler	09/27/2018	09/28/2018
8I28041-02	OW-7	Water	09/27/2018	09/28/2018
8I28041-03	OW-16	Water	09/27/2018	09/28/2018
8I28041-04	OW-15	Water	09/27/2018	09/28/2018
8I28041-05	OW-13	Water	09/27/2018	09/28/2018
8I28041-06	SW-1	Water	09/27/2018	09/28/2018
8I28041-07	SW-2	Water	09/27/2018	09/28/2018
8I28041-08	SW-3	Water	09/27/2018	09/28/2018

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

OW-12 (Lab Number: 8I28041-01)

Analysis	Method
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Cobalt	EPA 6010C
Copper	EPA 6010C
Lead	EPA 6010C
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 7010
Vanadium	EPA 6010C
Volatile Organic Compounds	EPA 8260C
Zinc	EPA 6010C
OW-13 (Lab Number: 8I28041-05)	
Analysis	<u>Method</u>
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Cobalt	EPA 6010C
Copper	EPA 6010C
Lead	EPA 6010C
Nickel	EPA 6010C
Selenium	EPA 6010C

Nickel Selenium Silver Thallium Vanadium Volatile Organic Compounds

OW-15 (Lab Number: 8I28041-04)

<u>Analysis</u>

Zinc

5010C
5010C 5010C
5010C 5010C 5010C
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EPA 6010C

EPA 6010C

EPA 8260C EPA 6010C

Method

EPA 7010

Request for Analysis (continued)

OW-15 (Lab Number: 8I28041-04) (continued)

<u>Analysis</u>	<u>Method</u>
Lead	EPA 6010C
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 7010
Vanadium	EPA 6010C
Volatile Organic Compounds	EPA 8260C
Zinc	EPA 6010C

OW-16 (Lab Number: 8I28041-03)

Analysis	Method
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Cobalt	EPA 6010C
Copper	EPA 6010C
Lead	EPA 6010C
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 7010
Vanadium	EPA 6010C
Volatile Organic Compounds	EPA 8260C
Zinc	EPA 6010C

OW-7 (Lab Number: 8I28041-02)

<u>Analysis</u>

Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Cobalt	EPA 6010C
Copper	EPA 6010C
Lead	EPA 6010C
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 7010
Vanadium	EPA 6010C
Volatile Organic Compounds	EPA 8260C
Zinc	EPA 6010C

<u>Method</u>

2

Request for Analysis (continued)

SW-1 (Lab Number: 8I28041-06)

<u>Analysis</u>

Antimony	EPA 6
Arsenic	EPA 6
Barium	EPA 6
Beryllium	EPA 6
Cadmium	EPA 6
Chromium	EPA 6
Cobalt	EPA 6
Copper	EPA 6
Lead	EPA 6
Nickel	EPA 6
Selenium	EPA 6
Silver	EPA 6
Thallium	EPA 7
Vanadium	EPA 6
Zinc	EPA 6

SW-2 (Lab Number: 8I28041-07)

<u>Analysis</u>	Method
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Cobalt	EPA 6010C
Copper	EPA 6010C
Lead	EPA 6010C
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 7010
Vanadium	EPA 6010C
Zinc	EPA 6010C

SW-3 (Lab Number: 8I28041-08)

Analysis	Method
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Cobalt	EPA 6010C
Copper	EPA 6010C
Lead	EPA 6010C
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 7010
Vanadium	EPA 6010C
Zinc	EPA 6010C

<u>Method</u>

6010C 7010 6010C EPA 6010C

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Method References

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA

Case Narrative

CASE NARRATIVE:

Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

Volatile Organic Compounds

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria. Those compounds in italics were qualitatively screened via reconstructed ion chromatography and no detections were identified to the listed PQLs.

Sample: OW-12

Total I	Metals
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CAS RN	Common Name	Method	Result, mg/l	PQL, mg/l
7440-36-0	Antimony	6010C	ND	0.001
7440-38-2	Arsenic	6010C	ND	0.002
7440-39-3	Barium	6010C	0.023	0.001
7440-41-7	Beryllium	6010C	ND	0.001
7440-43-9	Cadmium	6010C	ND	0.001
7440-47-3	Chromium	6010C	0.002	0.001
7440-48-4	Cobalt	6010C	0.002	0.001
7440-50-8	Copper	6010C	ND	0.004
7439-92-1	Lead	6010C	ND	0.001
7440-02-0	Nickel	6010C	0.025	0.001
7782-49-2	Selenium	6010C	ND	0.002
7440-22-44	Silver	6010C	ND	0.001
7440-28-0	Thallium	7010	ND	0.0002
7440-62-2	Vanadium	6010C	0.001	0.001
7440-66-6	Zinc	6010C	0.026	0.004

Sample: OW-7

Case Number: 8I28041

CAS RN	Common Name	Method	Result, mg/l	PQL, mg/l
7440-36-0	Antimony	6010C	ND	0.001
7440-38-2	Arsenic	6010C	ND	0.002
7440-39-3	Barium	6010C	0.054	0.001
7440-41-7	Beryllium	6010C	ND	0.001
7440-43-9	Cadmium	6010C	0.004	0.001
7440-47-3	Chromium	6010C	0.018	0.001
7440-48-4	Cobalt	6010C	0.022	0.001
7440-50-8	Copper	6010C	0.03	0.004
7439-92-1	Lead	6010C	0.006	0.001
7440-02-0	Nickel	6010C	0.032	0.001
7782-49-2	Selenium	6010C	ND	0.002
7440-22-44	Silver	6010C	ND	0.001
7440-28-0	Thallium	7010	ND	0.0002
7440-62-2	Vanadium	6010C	0.016	0.001
7440-66-6	Zinc	6010C	0.085	0.004

Sample: OW-16

Total I	Metals
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CAS RN	Common Name	Method	Result, mg/l	PQL, mg/l
7440-36-0	Antimony	6010C	ND	0.001
7440-38-2	Arsenic	6010C	ND	0.002
7440-39-3	Barium	6010C	0.027	0.001
7440-41-7	Beryllium	6010C	ND	0.001
7440-43-9	Cadmium	6010C	ND	0.001
7440-47-3	Chromium	6010C	0.003	0.001
7440-48-4	Cobalt	6010C	0.004	0.001
7440-50-8	Copper	6010C	ND	0.004
7439-92-1	Lead	6010C	ND	0.001
7440-02-0	Nickel	6010C	0.010	0.001
7782-49-2	Selenium	6010C	0.003	0.002
7440-22-44	Silver	6010C	ND	0.001
7440-28-0	Thallium	7010	ND	0.0002
7440-62-2	Vanadium	6010C	ND	0.001
7440-66-6	Zinc	6010C	0.019	0.004

Sample: OW-15

Case Number: 8I28041

CAS RN	Common Name	Method	Result, mg/l	PQL, mg/l
7440-36-0	Antimony	6010C	0.004	0.001
7440-38-2	Arsenic	6010C	0.03	0.002
7440-39-3	Barium	6010C	0.084	0.001
7440-41-7	Beryllium	6010C	ND	0.001
7440-43-9	Cadmium	6010C	0.007	0.001
7440-47-3	Chromium	6010C	ND	0.001
7440-48-4	Cobalt	6010C	0.014	0.001
7440-50-8	Copper	6010C	ND	0.004
7439-92-1	Lead	6010C	0.002	0.001
7440-02-0	Nickel	6010C	0.029	0.001
7782-49-2	Selenium	6010C	ND	0.002
7440-22-44	Silver	6010C	ND	0.001
7440-28-0	Thallium	7010	ND	0.0002
7440-62-2	Vanadium	6010C	0.011	0.001
7440-66-6	Zinc	6010C	0.015	0.004

Sample: OW-13

Total I	Metals
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CAS RN	Common Name	Method	Result, mg/l	PQL, mg/l
7440-36-0	Antimony	6010C	0.002	0.001
7440-38-2	Arsenic	6010C	0.01	0.002
7440-39-3	Barium	6010C	0.089	0.001
7440-41-7	Beryllium	6010C	ND	0.001
7440-43-9	Cadmium	6010C	0.003	0.001
7440-47-3	Chromium	6010C	0.002	0.001
7440-48-4	Cobalt	6010C	0.010	0.001
7440-50-8	Copper	6010C	ND	0.004
7439-92-1	Lead	6010C	ND	0.001
7440-02-0	Nickel	6010C	0.012	0.001
7782-49-2	Selenium	6010C	ND	0.002
7440-22-44	Silver	6010C	ND	0.001
7440-28-0	Thallium	7010	ND	0.0002
7440-62-2	Vanadium	6010C	0.004	0.001
7440-66-6	Zinc	6010C	0.010	0.004

Sample: SW-1

Case Number: 8I28041

CAS RN	Common Name	Method	Result, mg/l	PQL, mg/l
7440-36-0	Antimony	6010C	ND	0.001
7440-38-2	Arsenic	6010C	ND	0.002
7440-39-3	Barium	6010C	0.036	0.001
7440-41-7	Beryllium	6010C	ND	0.001
7440-43-9	Cadmium	6010C	ND	0.001
7440-47-3	Chromium	6010C	ND	0.001
7440-48-4	Cobalt	6010C	ND	0.001
7440-50-8	Copper	6010C	ND	0.004
7439-92-1	Lead	6010C	ND	0.001
7440-02-0	Nickel	6010C	0.003	0.001
7782-49-2	Selenium	6010C	ND	0.002
7440-22-44	Silver	6010C	ND	0.001
7440-28-0	Thallium	7010	ND	0.0002
7440-62-2	Vanadium	6010C	0.001	0.001
7440-66-6	Zinc	6010C	0.005	0.004

Sample: SW-2

Total Metals

CAS RN	Common Name	Method	Result, mg/l	PQL, mg/l
7440-36-0	Antimony	6010C	0.003	0.001
7440-38-2	Arsenic	6010C	ND	0.002
7440-39-3	Barium	6010C	0.017	0.001
7440-41-7	Beryllium	6010C	ND	0.001
7440-43-9	Cadmium	6010C	ND	0.001
7440-47-3	Chromium	6010C	ND	0.001
7440-48-4	Cobalt	6010C	0.002	0.001
7440-50-8	Copper	6010C	ND	0.004
7439-92-1	Lead	6010C	ND	0.001
7440-02-0	Nickel	6010C	0.002	0.001
7782-49-2	Selenium	6010C	ND	0.002
7440-22-44	Silver	6010C	ND	0.001
7440-28-0	Thallium	7010	ND	0.0002
7440-62-2	Vanadium	6010C	0.001	0.001
7440-66-6	Zinc	6010C	0.006	0.004

Sample: SW-3

Case Number: 8I28041

CAS RN	Common Name	Method	Result, mg/l	PQL, mg/l
7440-36-0	Antimony	6010C	0.003	0.001
7440-38-2	Arsenic	6010C	ND	0.002
7440-39-3	Barium	6010C	0.018	0.001
7440-41-7	Beryllium	6010C	ND	0.001
7440-43-9	Cadmium	6010C	ND	0.001
7440-47-3	Chromium	6010C	ND	0.001
7440-48-4	Cobalt	6010C	0.004	0.001
7440-50-8	Copper	6010C	ND	0.004
7439-92-1	Lead	6010C	ND	0.001
7440-02-0	Nickel	6010C	0.006	0.001
7782-49-2	Selenium	6010C	ND	0.002
7440-22-44	Silver	6010C	ND	0.001
7440-28-0	Thallium	7010	ND	0.0002
7440-62-2	Vanadium	6010C	0.003	0.001
7440-66-6	Zinc	6010C	0.011	0.004

Sample: OW-12 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0
71-55-6	1,1,1-Trichloroethane	ND	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0
79-00-5	1,1,2-Trichloroethane	ND	1.0
75-34-3	1,1-Dichloroethane	ND	1.0
75-35-4	1,1-Dichloroethylene	ND	1.0
563-58-6	1,1-Dichloropropene	ND	1.0
96-18-4	1,2,3-Trichloropropane	ND	1.0
96-12-8	1,2-Dibromo-3-chloropropane(DBCP)	ND	1.0
106-93-4	1,2-Dibromoethane	ND	1.0
107-06-2	1,2-Dichloroethane	ND	1.0
78-87-5	1,2-Dichloropropane	ND	1.0
142-28-9	1,3-Dichloropropane	ND	1.0
594-20-7	2,2-Dichloropropane	ND	1.0
591-78-6	2-Hexanone (Methyl butyl ketone)	ND	5.0
108-10-1	4-Methyl-2-pentanone	ND	5.0
67-64-1	Acetone	ND	5.0
75-05-8	Acetonitrile (Methyl cyanide)	ND	5.0
107-02-8	Acrolein	ND	5.0
107-13-1	Acrylonitrile	ND	5.0
107-05-1	Allyl chloride	ND	5.0
71-43-2	Benzene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
75-15-0	Carbon disulfide	ND	1.0
56-23-5	Carbon tetrachloride	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
75-00-3	Chloroethane (Ethyl chloride)	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
126-99-8	Chloroprene	ND	5.0
156-59-2	cis-1,2-Dichloroethylene	ND	1.0
10061-01-5	cis-1,3-Dichloropropene	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	1.0
97-63-2	Ethyl methacrylate	ND	5.0
100-41-4	Ethylbenzene	ND	1.0
78-83-1	Isobutyl alcohol	ND	20.0
465-73-6	Isodrin	ND	5.0
541-73-1	m-Dichlorobenzene	ND	1.0
126-98-7	Methacrylonitrile	ND	10.0
74-83-9	Methyl bromide (Bromomethane)	ND	1.0

Sample: OW-12 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
74-87-3	Methyl chloride (Chloromethane)	ND	1.0
78-93-3	Methyl ethyl ketone (MEK)	ND	5.0
74-88-4	Methyl iodide (Iodomethane)	ND	5.0
80-62-6	Methyl methacrylate	ND	10.0
74-95-3	Methylene bromide (Dibromomethane)	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
95-50-1	o-Dichlorobenzene	ND	1.0
106-46-7	p-Dichlorobenzene	ND	1.0
107-12-0	Propionitrile (Ethyl cyanide)	ND	20.0
100-42-5	Styrene	ND	1.0
127-18-4	Tetrachloroethylene	ND	1.0
1634-04-4	tert-Butylmethylether	ND	1.0
108-88-3	Toluene	ND	1.0
156-60-5	trans-1,2-Dichloroethylene	ND	1.0
10061-02-6	trans-1,3-Dichloropropene	ND	1.0
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0
79-01-6	Trichloroethylene	ND	1.0
75-69-4	Trichlorofluoromethane (CFC-11)	ND	1.0
108-05-4	Vinyl acetate	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
1330-20-7	Xylene (total)	ND	1.0

Surrogates:

Compound	% Recovery	Limits
Toluene d8	98.18	70-130
1,2-Dichloroethane d4	111.32	70-130
4 BFB	91.30	70-130

ND = Not Detected

Sample: OW-7 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0
71-55-6	1,1,1-Trichloroethane	ND	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0
79-00-5	1,1,2-Trichloroethane	ND	1.0
75-34-3	1,1-Dichloroethane	ND	1.0
75-35-4	1,1-Dichloroethylene	ND	1.0
563-58-6	1,1-Dichloropropene	ND	1.0
96-18-4	1,2,3-Trichloropropane	ND	1.0
96-12-8	1,2-Dibromo-3-chloropropane(DBCP)	ND	1.0
106-93-4	1,2-Dibromoethane	ND	1.0
107-06-2	1,2-Dichloroethane	ND	1.0
78-87-5	1,2-Dichloropropane	ND	1.0
142-28-9	1,3-Dichloropropane	ND	1.0
594-20-7	2,2-Dichloropropane	ND	1.0
591-78-6	2-Hexanone (Methyl butyl ketone)	ND	5.0
108-10-1	4-Methyl-2-pentanone	ND	5.0
67-64-1	Acetone	ND	5.0
75-05-8	Acetonitrile (Methyl cyanide)	ND	5.0
107-02-8	Acrolein	ND	5.0
107-13-1	Acrylonitrile	ND	5.0
107-05-1	Allyl chloride	ND	5.0
71-43-2	Benzene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
75-15-0	Carbon disulfide	ND	1.0
56-23-5	Carbon tetrachloride	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
75-00-3	Chloroethane (Ethyl chloride)	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
126-99-8	Chloroprene	ND	5.0
156-59-2	cis-1,2-Dichloroethylene	ND	1.0
10061-01-5	cis-1,3-Dichloropropene	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	1.0
97-63-2	Ethyl methacrylate	ND	5.0
100-41-4	Ethylbenzene	ND	1.0
78-83-1	Isobutyl alcohol	ND	20.0
465-73-6	Isodrin	ND	5.0
541-73-1	m-Dichlorobenzene	ND	1.0
126-98-7	Methacrylonitrile	ND	10.0
74-83-9	Methyl bromide (Bromomethane)	ND	1.0

Sample: OW-7 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
74-87-3	Methyl chloride (Chloromethane)	ND	1.0
78-93-3	Methyl ethyl ketone (MEK)	ND	5.0
74-88-4	Methyl iodide (Iodomethane)	ND	5.0
80-62-6	Methyl methacrylate	ND	10.0
74-95-3	Methylene bromide (Dibromomethane)	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
95-50-1	o-Dichlorobenzene	ND	1.0
106-46-7	p-Dichlorobenzene	ND	1.0
107-12-0	Propionitrile (Ethyl cyanide)	ND	20.0
100-42-5	Styrene	ND	1.0
127-18-4	Tetrachloroethylene	ND	1.0
1634-04-4	tert-Butylmethylether	4.87	1.0
108-88-3	Toluene	ND	1.0
156-60-5	trans-1,2-Dichloroethylene	ND	1.0
10061-02-6	trans-1,3-Dichloropropene	ND	1.0
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0
79-01-6	Trichloroethylene	ND	1.0
75-69-4	Trichlorofluoromethane (CFC-11)	ND	1.0
108-05-4	Vinyl acetate	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
1330-20-7	Xylene (total)	ND	1.0

Surrogates:

Compound	% Recovery	Limits
Toluene d8	107.54	70-130
1,2-Dichloroethane d4	129.52	70-130
4 BFB	105.38	70-130

ND = Not Detected

Sample: OW-16 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)				
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0				
71-55-6	1,1,1-Trichloroethane	ND	1.0				
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0				
79-00-5	1,1,2-Trichloroethane	ND	1.0				
75-34-3	1,1-Dichloroethane	ND	1.0				
75-35-4	1,1-Dichloroethylene	ND	1.0				
563-58-6	1,1-Dichloropropene	ND	1.0				
96-18-4	1,2,3-Trichloropropane	ND	1.0				
96-12-8	1,2-Dibromo-3-chloropropane(DBCP)	ND	1.0				
106-93-4	1,2-Dibromoethane	ND	1.0				
107-06-2	1,2-Dichloroethane	ND	1.0				
78-87-5	1,2-Dichloropropane	ND	1.0				
142-28-9	1,3-Dichloropropane	ND	1.0				
594-20-7	2,2-Dichloropropane	ND	1.0				
591-78-6	2-Hexanone (Methyl butyl ketone)	ND	5.0				
108-10-1	4-Methyl-2-pentanone	ND	5.0				
67-64-1	Acetone	ND	5.0				
75-05-8	Acetonitrile (Methyl cyanide)	ND	5.0				
107-02-8	Acrolein	ND	5.0				
107-13-1	Acrylonitrile	ND	5.0				
107-05-1	Allyl chloride	ND	5.0				
71-43-2	Benzene	ND	1.0				
74-97-5	Bromochloromethane	ND	1.0				
75-27-4	Bromodichloromethane	ND	1.0				
75-25-2	Bromoform (Tribromomethane)	ND	1.0				
75-15-0	Carbon disulfide	ND	1.0				
56-23-5	Carbon tetrachloride	ND	1.0				
108-90-7	Chlorobenzene	ND	1.0				
75-00-3	Chloroethane (Ethyl chloride)	ND	1.0				
67-66-3	Chloroform (Trichloromethane)	ND	1.0				
126-99-8	Chloroprene	ND	5.0				
156-59-2	cis-1,2-Dichloroethylene	ND	1.0				
10061-01-5	cis-1,3-Dichloropropene	ND	1.0				
124-48-1	Dibromochloromethane	ND	1.0				
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	1.0				
97-63-2	Ethyl methacrylate	ND	5.0				
100-41-4	Ethylbenzene	ND	1.0				
78-83-1	Isobutyl alcohol	ND	20.0				
465-73-6	Isodrin	ND	5.0				
541-73-1	m-Dichlorobenzene	ND	1.0				
126-98-7	Methacrylonitrile	ND	10.0				
74-83-9	Methyl bromide (Bromomethane)	ND	1.0				

Sample: OW-16 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
74-87-3	Methyl chloride (Chloromethane)	ND	1.0
78-93-3	Methyl ethyl ketone (MEK)	ND	5.0
74-88-4	Methyl iodide (Iodomethane)	ND	5.0
80-62-6	Methyl methacrylate	ND	10.0
74-95-3	Methylene bromide (Dibromomethane)	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
95-50-1	o-Dichlorobenzene	ND	1.0
106-46-7	p-Dichlorobenzene	ND	1.0
107-12-0	Propionitrile (Ethyl cyanide)	ND	20.0
100-42-5	Styrene	ND	1.0
127-18-4	Tetrachloroethylene	ND	1.0
1634-04-4	tert-Butylmethylether	3.42	1.0
108-88-3	Toluene	ND	1.0
156-60-5	trans-1,2-Dichloroethylene	ND	1.0
10061-02-6	trans-1,3-Dichloropropene	ND	1.0
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0
79-01-6	Trichloroethylene	ND	1.0
75-69-4	Trichlorofluoromethane (CFC-11)	ND	1.0
108-05-4	Vinyl acetate	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
1330-20-7	Xylene (total)	ND	1.0

Surrogates:

Compound	% Recovery	Limits
Toluene d8	108.90	70-130
1,2-Dichloroethane d4	117.76	70-130
4 BFB	105.42	70-130

ND = Not Detected

Sample: OW-15 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0
71-55-6	1,1,1-Trichloroethane	ND	5.0
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0
79-00-5	1,1,2-Trichloroethane	ND	5.0
75-34-3	1,1-Dichloroethane	ND	5.0
75-35-4	1,1-Dichloroethylene	ND	5.0
563-58-6	1,1-Dichloropropene	ND	5.0
96-18-4	1,2,3-Trichloropropane	ND	5.0
96-12-8	1,2-Dibromo-3-chloropropane(DBCP)	ND	5.0
106-93-4	1,2-Dibromoethane	ND	5.0
107-06-2	1,2-Dichloroethane	ND	5.0
78-87-5	1,2-Dichloropropane	ND	5.0
142-28-9	1,3-Dichloropropane	ND	5.0
594-20-7	2,2-Dichloropropane	ND	5.0
591-78-6	2-Hexanone (Methyl butyl ketone)	ND	25.0
108-10-1	4-Methyl-2-pentanone	ND	25.0
67-64-1	Acetone	ND	25.0
75-05-8	Acetonitrile (Methyl cyanide)	ND	25.0
107-02-8	Acrolein	ND	25.0
107-13-1	Acrylonitrile	ND	25.0
107-05-1	Allyl chloride	ND	25.0
71-43-2	Benzene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
75-27-4	Bromodichloromethane	ND	5.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
75-15-0	Carbon disulfide	ND	5.0
56-23-5	Carbon tetrachloride	ND	5.0
108-90-7	Chlorobenzene	14	5.0
75-00-3	Chloroethane (Ethyl chloride)	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
126-99-8	Chloroprene	ND	25.0
156-59-2	cis-1,2-Dichloroethylene	ND	5.0
10061-01-5	cis-1,3-Dichloropropene	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	5.0
97-63-2	Ethyl methacrylate	ND	25.0
100-41-4	Ethylbenzene	ND	5.0
78-83-1	Isobutyl alcohol	ND	100.0
465-73-6	Isodrin	ND	25.0
541-73-1	m-Dichlorobenzene	ND	5.0
126-98-7	Methacrylonitrile	ND	50.0
74-83-9	Methyl bromide (Bromomethane)	ND	5.0

Sample: OW-15 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
74-87-3	Methyl chloride (Chloromethane)	ND	5.0
78-93-3	Methyl ethyl ketone (MEK)	ND	25.0
74-88-4	Methyl iodide (Iodomethane)	ND	25.0
80-62-6	Methyl methacrylate	ND	50.0
74-95-3	Methylene bromide (Dibromomethane)	ND	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
95-50-1	o-Dichlorobenzene	ND	5.0
106-46-7	p-Dichlorobenzene	ND	5.0
107-12-0	Propionitrile (Ethyl cyanide)	ND	100.0
100-42-5	Styrene	ND	5.0
127-18-4	Tetrachloroethylene	ND	5.0
1634-04-4	tert-Butylmethylether	7.0	5.0
108-88-3	Toluene	ND	5.0
156-60-5	trans-1,2-Dichloroethylene	ND	5.0
10061-02-6	trans-1,3-Dichloropropene	ND	5.0
110-57-6	trans-1,4-Dichloro-2-butene	ND	25.0
79-01-6	Trichloroethylene	ND	5.0
75-69-4	Trichlorofluoromethane (CFC-11)	ND	5.0
108-05-4	Vinyl acetate	ND	25.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
1330-20-7	Xylene (total)	ND	5.0

Surrogates:

Compound	% Recovery	Limits
Toluene d8	105.18	70-130
1,2-Dichloroethane d4	115.80	70-130
4 BFB	99.12	70-130

ND = Not Detected

Sample: OW-13 Method: 8260C

Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0
71-55-6	1,1,1-Trichloroethane	ND	1.0
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0
79-00-5	1,1,2-Trichloroethane	ND	1.0
75-34-3	1,1-Dichloroethane	ND	1.0
75-35-4	1,1-Dichloroethylene	ND	1.0
563-58-6	1,1-Dichloropropene	ND	1.0
96-18-4	1,2,3-Trichloropropane	ND	1.0
96-12-8	1,2-Dibromo-3-chloropropane(DBCP)	ND	1.0
106-93-4	1,2-Dibromoethane	ND	1.0
107-06-2	1,2-Dichloroethane	ND	1.0
78-87-5	1,2-Dichloropropane	ND	1.0
142-28-9	1,3-Dichloropropane	ND	1.0
594-20-7	2,2-Dichloropropane	ND	1.0
591-78-6	2-Hexanone (Methyl butyl ketone)	ND	5.0
108-10-1	4-Methyl-2-pentanone	ND	5.0
67-64-1	Acetone	ND	5.0
75-05-8	Acetonitrile (Methyl cyanide)	ND	5.0
107-02-8	Acrolein	ND	5.0
107-13-1	Acrylonitrile	ND	5.0
107-05-1	Allyl chloride	ND	5.0
71-43-2	Benzene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
75-15-0	Carbon disulfide	ND	1.0
56-23-5	Carbon tetrachloride	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
75-00-3	Chloroethane (Ethyl chloride)	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
126-99-8	Chloroprene	ND	5.0
156-59-2	cis-1,2-Dichloroethylene	ND	1.0
10061-01-5	cis-1,3-Dichloropropene	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	1.0
97-63-2	Ethyl methacrylate	ND	5.0
100-41-4	Ethylbenzene	ND	1.0
78-83-1	Isobutyl alcohol	ND	20.0
465-73-6	Isodrin	ND	5.0
541-73-1	m-Dichlorobenzene	ND	1.0
126-98-7	Methacrylonitrile	ND	10.0
74-83-9	Methyl bromide (Bromomethane)	ND	1.0

Sample: OW-13 Method: 8260C

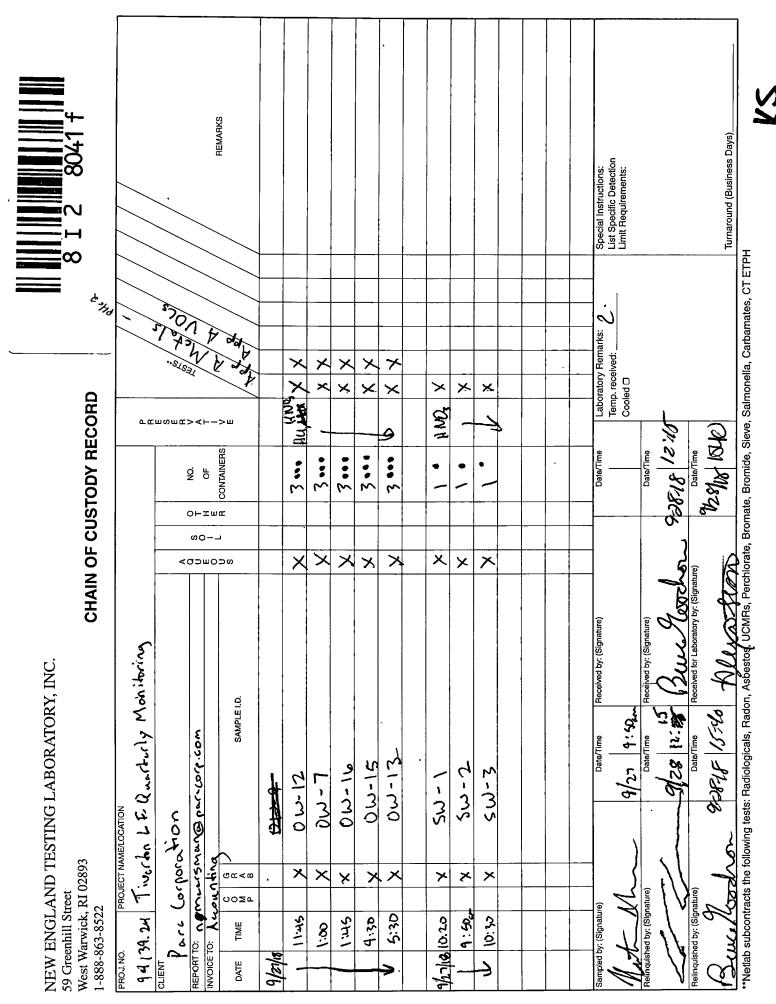
Case Number: 8I28041

CAS RN	Common Name	Result, ppb	PQL (ppb)
74-87-3	Methyl chloride (Chloromethane)	ND	1.0
78-93-3	Methyl ethyl ketone (MEK)	ND	5.0
74-88-4	Methyl iodide (Iodomethane)	ND	5.0
80-62-6	Methyl methacrylate	ND	10.0
74-95-3	Methylene bromide (Dibromomethane)	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
95-50-1	o-Dichlorobenzene	ND	1.0
106-46-7	p-Dichlorobenzene	ND	1.0
107-12-0	Propionitrile (Ethyl cyanide)	ND	20.0
100-42-5	Styrene	ND	1.0
127-18-4	Tetrachloroethylene	ND	1.0
1634-04-4	tert-Butylmethylether	ND	1.0
108-88-3	Toluene	ND	1.0
156-60-5	trans-1,2-Dichloroethylene	ND	1.0
10061-02-6	trans-1,3-Dichloropropene	ND	1.0
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0
79-01-6	Trichloroethylene	ND	1.0
75-69-4	Trichlorofluoromethane (CFC-11)	ND	1.0
108-05-4	Vinyl acetate	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
1330-20-7	Xylene (total)	ND	1.0

Surrogates:

Compound	% Recovery	Limits
Toluene d8	104.40	70-130
1,2-Dichloroethane d4	117.50	70-130
4 BFB	100.04	70-130

ND = Not Detected



ATTACHMENT NO. 2 ANALYTICAL SUMMARY TABLES

TABLE 2 BACKGROUND WELL HISTORICAL RESULTS APPENDIX A - CONSTITUENTS FOR DETECTION MONITORING MONITORING WELL 0V-9 Concentration (Expressed in same units as Threshold Value)

Parameter	Threshold Value	SEP '18	<u>JUN '18</u>	MAR '18	DEC '17	SEP '17	JUN '17	MAR '17	DEC '16	SEP '16	JUN '16	MAR '16	DEC '15	SEP '15	JUN '15	MAR '15	DEC '14	SEP '14	JUN '14	MAR '14	4 DEC '13	SEP '13	JUN '13	MAR '13	DEC '12	SEP '12	JUN '12	MAR '12	DEC '11	SEP '11	<u>JUN '11</u>	MAR '11	DEC '10	SEP '10	<u>JUN '10</u>	MAR '10
Antimony	0.006 mg/L ¹	NT	ND	ND	0.0290	NT	NT	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	0.0160	0.2000	ND	ND	NT	ND	ND
Arsenic	0.010 mg/L ¹	NT	ND	ND	ND	NT	NT	0.0030	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	0.0079
Barium	2 mg/L1	NT	0.0090	0.0130	0.0410	NT	NT	0.0100	0.0060	NT	NT	0.0110	0.0110	NT	NT	0.0070	0.0420	NT	0.0100	0.0120	0.0200	NT	0.0150	0.0130	0.0160	NT	0.0110	0.0120	0.0070	0.0120	0.0080	0.0221	0.0230	NT	0.0460	0.0380
Beryllium	0.004 mg/L	NT	ND	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	0.0015	ND
Cadmium	0.005 mg/L	NT	ND	0.0020	0.3650	NT	NT	ND	ND	NT	NT	0.0010	ND	NT	NT	ND	0.0020	NT	ND	ND	0.0050	NT	0.0040	ND	0.0010	NT	ND	ND	ND	0.0020	ND	ND	ND	NT	ND	ND
Chromium	0.1 mg/L ¹	NT	0.003	0.0070	0.0300	NT	NT	0.0040	ND	NT	NT	0.0050	0.0070	NT	NT	0.0060	0.0270	NT	0.0060	0.0070	0.0150	NT	0.0070	0.0070	0.0120	NT	0.0050	0.0080	0.0040	0.0020	ND	0.0079	0.0068	NT	0.0230	0.0270
Cobalt	0.73 mg/L ⁵	NT	ND	0.0010	0.0020	NT	NT	ND	ND	NT	NT	ND	ND	NT	NT	ND	0.0100	NT	ND	0.0010	0.0030	NT	0.0020	0.0020	0.0030	NT	ND	0.0020	ND	ND	ND	0.0019	0.0015	NT	0.0086	0.0110
Copper Lead	1.3 mg/L ¹ 0.015 mg/L ¹	NT	ND 0.001	ND 0.0020	0.0600	NT	NT NT	ND 0.0020	ND 0.0060	NT NT	NT NT	0.0020 ND	ND 0.0050	NT NT	NT	0.0020	0.0170	NT	ND 0.0060	0.0060	0.0140	NT NT	0.0070	ND 0.0020	0.0060	NT NT	ND ND	0.0080	0.0010	0.0100	0.0400	0.0041 ND	0.0043 ND	NT NT	0.0200	0.0170
Mercury	0.002 mg/L ¹	NT	ND	ND	ND	NT	NT	0.0020 ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND ND	ND	ND	ND	NT	ND	ND
Nickel	0.1 mg/L ²	NT	0.001	0.0040	0.0240	NT	NT	0.0040	ND	NT	NT	0.0030	0.0030	NT	NT	0.0170	0.0180	NT	0.0030	0.0040	0.0090	NT	0.0050	0.0050	0.0070	NT	0.0030		0.0020	0.0080	0.0080	0.0046	0.0037	NT	0.0150	0.0180
Selenium	0.05 mg/L ¹	NT	ND	ND	ND	NT	NT	ND	0.0100	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	0.0060	NT	ND	ND	ND	NT	ND	ND	ND	0.0100	0.0100	ND	ND	NT	ND	ND
Silver	0.1 mg/L ^{2.1}	NT	ND	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	0.1180	ND	ND	NT	ND	ND
Thallium	0.002 mg/L1	NT	ND	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Tin	22 mg/L ⁵	NT	ND	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	0.0080	0.1310	NT	ND	ND	ND	NT	ND	ND	ND	ND	0.0190	ND	ND	NT	ND	ND
Vanadium	0.26 ma/L ⁵	NT	ND	0.0020	ND	NT	NT	ND	ND	NT	NT	0.0010	0.0020	NT	NT	ND	0.0140	NT	0.0020	0.0030	0.0070	NT	0.0030	0.0020	0.0040	NT	ND	0.0010	ND	ND	ND	0.0034	0.0034	NT	0.0150	0.0110
Zinc	2 mg/L ²³	NT	0.0090	0.0190	11.1000	NT	NT	0.0070	ND	NT	NT	0.0100	0.0050	NT	NT	ND	0.0410	NT	0.0110	0.0080	0.0170	NT	0.0210	0.0120	0.0160	NT	0.0150	0.0120	0.0090	0.0140	ND	0.0257	0.0190	NT	0.0330	0.0350
Acetone	610 µg/L"	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Acrylonitrile	0.039 µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Benzene	5 µg/L1	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Bromochloromethane Bromodichloromethane (THM)	80 μg/L ² 90 μg/L ³	NT NT	ND ND	ND ND	ND ND	NT NT	NT NT	ND ND	NT NT	NT NT	NT	ND ND	ND ND	NT NT	NT	ND ND	ND ND	NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND
Bromodichloromethane (THM) Bromoform	90 µg/L'	NT	ND ND	ND ND	ND ND	NT	NT	ND ND	NT	NT	NT	ND ND	ND ND	NT	NT	ND ND	ND ND	NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT	ND ND	ND ND
Carbon disulfide	1000 µg/L"	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Carbon tetrachloride	5 µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Chlorobenzene	100 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Chloroethane	4.6 µg/L°	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Chloroform (THM)	80 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Chlorodibromomethane (THM)	80 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,2-Dibromo-3-chloropropane (DBC	0.2 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,2-Dibromoethane (EDB)	0.05 µg/L1	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,2-Dichlorobenzene	600 µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,4-Dichlorobenzene	75 µg/L1	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
trans-1,4-Dichloro-2-butene	µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,1-Dichloroethane 1,2-Dichloroethane	5 μg/L 5 μg/L'	NT	ND ND	ND ND	ND ND	NT NT	NT	ND ND	NT NT	NT NT	NT	ND ND	ND ND	NT	NT	ND ND	ND ND	NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND
1,1-Dichloroethylene	7 μg/L ¹	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
cis-1,2-Dichloroethene	70 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
trans-1,2-Dichloroethene	100 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,2-Dichloropropane	5 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
cis-1,3-Dichloropropene	µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
trans-1,3-Dichloropropene	µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Ethylbenzene	700 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Methyl butyl ketone(2-Hexanone)	160 µg/L"	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Bromomethane	10 µg/L ²	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Chloromethane	30 µg/L ²	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Dibromomethane	61 µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Methylene chloride Methyl athyl latera (2 Buterana)	5 μg/L' 4000 μg/L ²	NT	ND ND	ND ND	ND	NT NT	NT	ND ND	NT NT	NT NT	NT NT	ND	ND ND	NT	NT	ND	ND	NT	ND ND	ND ND	ND ND	NT NT	ND	ND ND	ND ND	NT NT	ND	ND ND	ND	ND ND	ND	ND ND	ND	NT	ND	ND ND
Methyl ethyl ketone(2-Butanone) Methyl iadide	4000 µg/L	NT		ND	ND ND	NI	NT NT	ND	NT	NT	NT	ND ND	ND	NT NT	NT	ND ND	ND ND	NT	ND	ND	ND	NT	ND ND	ND	ND	NI	ND ND	ND	ND ND	ND	ND ND	ND	ND ND	NT NT	ND ND	ND
Methyl iodide 4-Methyl-2-pentanone	µg/L	NT	ND ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Styrene	100 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,1,1,2-Tetrachloroethane	70 µg/L ²	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1.1.2.2-Tetrachloroethane	0.3 µg/L*	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Tetrachloroethylene(PCE)	5 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	2.1	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Toluene	1000 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,1,1-Trichloroethane	200 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,1,2-Trichloroethane	5 µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Trichloroethylene(TCE)	5 µg/L'	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Trichloroflouromethane	2000 µg/L*	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
1,2,3-Trichloropropane	40 µg/L ²	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Vinyl acetate	410 µg/L	NT	ND	ND	ND	NT	NT	ND	NT	NT	NT	ND	ND	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND
Vinyl chloride Xylenes	2 μg/L ¹ 10000 μg/L'	NT	ND ND	ND ND	ND ND	NT NT	NT NT	ND ND	NT NT	NT NT	NT	ND ND	ND ND	NT NT	NT NT	ND ND	ND ND	NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND
Xylenes Methyl tert-butyl ether (MTBE)	10000 μg/L 20 - 40 μg/L ⁴	NT	ND ND	ND	ND ND	NT	NT	ND ND	NT	NT	NT	ND ND	ND ND	NT	NT	ND ND	ND ND	NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT	ND ND	ND ND
meany terrootyl ether (MTBE)			UN	UNI	ND	ni l	ri I	DN	in l	rel	ry I	мD	ND	ni l	ni I	ЧD	мD	ni l	ND	dh	nD	IN]	мD	мD	мD	IN]	мD	ND	мD	мD	ND	чÐ	мD	rs I	ND	ND
Note: Analytical data reported since on July 2002 represents the first	ommencement of					ng and sa	mpling c	ammence	d in May 3	1002, but	no samp	le was tak	ten at O\	V-9 at this	time.																					

Threshold value given is the Maximum Contaminant Level (MCL) as provided in the USEPA 2004 Edition of the Dinning Water Standards and Health Advicories
 Threshold value given is the literine health advicory aprovided in the USEPA 2004 Edition of the Dinning Water Standards and Health Advicories
 Threshold value given is the Secondary Dinning Water Standards and Health Advicories
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 Threshold value given is the Dinning Advices provided in the USEPA 2004 Edition of the Dinning Water Standards and Health Advicories
 Threshold value given is the Dinning Advices Disord Standards and Health Advicories
 Threshold value given is the Parkinsey Remedia Call (PRG) for yearser, as provided in the USEPA 2004 Edition
 the Occhaer 2002 Ugebae
 Constituents concentration was reported alone is laboratory method detector initit, but lower than it balcatory reporting limit.
 However, the reporting limit this word was agrificantly higher threshold reporting limits were reported as non-detect.
 Constituents with concentrations lower than historical reporting limits were reported as non-detect.

No threshold value has been provided for parameters not identified in the sources listed above * - One half of the laboratory detection limit "DL" NT = Not Tested due to dry conditions at well.

TABLE 1 (CONT.) SUMMARY OF GROUNDWATER MONITORING RESULTS APPENDIX A - CONSTITUENTS FOR DETECTION MONITORING MONITORING WELL OW-7 Concentration (expressed in same units as Threshold Value)

Parameter		SEP '18	3 JUN '18	MAR '18	NOV '17	SEP '17	MAR '17	MAR '16	SEP '15	MAR '15	DEC '14	MAR '14	SEP '13	MAR '13	SEP '12	MAR '12	JUN '11	MAR '11	SEP '10	JUN '10	SEP '09	JUN '07	SEP '05	JUN '05
Antimony	0.006 mg/L1	ND	ND	ND	ND	ND	0.0070	ND	ND	ND	NT	ND	ND	ND	ND	ND	0.0250	ND	ND	ND	ND	ND	ND	ND
Arsenic	0.01 mg/L ¹	ND	0.0100	ND	ND	ND	ND	0.0070	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND ⁶	ND	ND	ND	ND	ND	ND
Barium Beryllium	2 mg/L ¹ 0.004 mg/L ¹	0.0540 ND	0.0280 ND	0.0380 ND	0.0350 ND	0.0330 ND	0.0380 ND	0.0390 ND	0.0300 ND	0.0330 ND	NT NT	0.0310 ND	0.0200 ND	0.0310 ND	0.0260 ND	0.0280 ND	0.0350 ND	0.0398 ND ⁶	0.0375 ND ⁶	0.0370 ND	0.0310 ND	0.0340 ND	0.0240 ND	0.0280 ND
Cadmium	0.004 mg/L ¹	0.004	ND	ND	ND	ND	0.0010	ND	0.0010	ND	NT	0.0010	ND	ND	0.0050	ND	ND	0.0012	0.0419	0.0410	ND	ND	ND	ND
Chromium	0.1 mg/L ¹	0.0180			0.0050	0.0040	0.0060	ND	ND	ND	NT	ND	ND	ND	ND	0.0010	0.0080	ND	0.0054	0.0048	0.0530	ND	ND	ND
Cobalt	0.73 mg/L ⁵	0.0220	0.0150		0.0180	0.0180	0.0250	0.0280	0.0200	0.0250	NT	0.0220	0.0130	0.0250	0.0160	0.0200	0.0200	0.0353	0.0229	0.0250	0.0250	0.0200	0.0190	0.0220
Copper	1.3 mg/L ¹	0.03	ND	ND	0.0050	ND	0.0060	0.0060	0.0080	0.0250	NT	0.0180	0.0040	ND	0.0080	0.0040	0.0390	0.0056	0.2180	0.5000	0.0058	0.0098	ND	ND
Lead	0.015 mg/L' 0.1 mg/L ²	0.006	ND 0.0180	ND 0.0210	ND 0.0210	ND 0.0190	ND 0.0250	ND ND	0.0010	0.0050	NT NT	0.0060	0.0040	0.0020	0.0020	0.0040	0.0460	0.0033	0.0074	0.0060	0.0043	0.0042	ND 0.0220	ND 0.0370
Selenium	0.05 mg/L ¹	0.0520 ND	ND	0.0100	ND	0.0030	0.0250 ND	0.1070	0.0070	0.1880	NT	0.1830	0.1410	0.1800	0.1920	0.2260	0.0340	ND	0.0270 ND	0.0200 ND	0.0120	0.0110	0.0140	ND
Silver	0.1 mg/L ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0054	ND	ND	0.0035
Thallium	0.002 mg/L ¹	ND	ND	0.0003	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	0.0032	ND	ND	0.0420	0.0440	ND	0.0140
Tin	22 mg/L ⁵	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	0.0060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium Zinc	0.26 mg/L ⁵ 5 mg/L ³	0.016 0.0850	ND 0.0140	ND 0.0180	ND 0.0200	ND 0.0120	ND 0.0210	ND 0.0050	ND 0.0120	ND 0.0060	NT 0.0060	ND	ND ND	ND 0.0150	ND 0.0100	ND 0.0130	0.0170 ND	ND 0.0250	0.0051 0.0472	0.0072	0.0230	0.0240	ND 0.0160	ND 0.0180
Mercury	0.002 mg/L ¹	0.0850 ND	0.0140 ND	ND	0.0200 ND	0.0120 ND	0.0210 ND	0.0050 ND	0.0120 ND	0.0060 ND	0.0060 NT	ND	ND	0.0150 ND	ND	0.0130 ND	ND	0.0250 ND	0.0472 ND	0.0380 ND	0.0120 ND	ND	0.0160 ND	ND
Acetone	610 ug/l ⁵	ND	ND	ND	ND	ND	5.8	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrate	0.039 ug/l ⁵	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	5 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane Bromodichloromethane	80 ug/l ² 90 ug/l ¹	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Bromodicnioromethane	90 ug/1 80 ug/1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	1000 ug/l ⁵	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	10 ug/l ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene Chlorodibromomethane	100 ug/l' 80 ug/l ¹	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	1.0 ND	2.0 ND	ND ND	1.4 ND	1.8 ND	2.7 ND	1.7 ND	ND ND
Chlorodibromomethane	80 ug/l ¹	ND ND	ND ND	ND	ND	ND	ND	ND ND	ND	ND ND	NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
Chloroethane	4.6 ug/l ⁵	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	2.2	ND	1.3	1.6	1.5	3.8	ND	ND
Chloromethane	30 ug/l ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.2 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.05 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane 1.2-Dichlorobenzene	61 ug/l ⁵ 600 ug/l ¹	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1.4-Dichlorobenzene	75 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichlo-2-butene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene Trans-1,2-Dichloroethylene	70 ug/l ¹ 100 ug/l ¹	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1-Dichloroethylene	7 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride 1.1.1.2-Tetrachloroethane	5 ug/l ¹ 70 ug/l ²	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1.1.2.2-Tetrachloroethane	0.3 ug/l ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene(PCE)	5 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene(TCE) Trichloroflouromethane	5 ug/l ¹ 2000 ug/l ²	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Vinyl chloride	2000 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	10000 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl butyl ketone(2-Hexanone) Methyl tert-butyl ether (MTBE)	160 ug/l ⁵ 20 - 40 ug/l ⁴	ND 4.87	ND 3.56	ND 6.80	ND 5.9	ND 5.36	ND 10.3	ND 8.8	ND ND	ND ND	NT NT	ND 9.7	ND 5.6	ND 11.9	ND 8.0	ND 11.2	ND 10.7	ND 15.7	ND 7.2	ND 8.2	ND 9.0	ND 12.0	ND 7.4	ND 2.1
Methyl ethyl ketone(2-Butanone)	20 - 40 ug/l 4000 ug/l ²	4.87 ND	3.56 ND	6.80 ND	5.9 ND	5.36 ND	10.3 ND	8.8 ND	ND	ND	NT	9.7 ND	5.6 ND	ND	ND	11.2 ND	10.7 ND	15.7 ND	7.2 ND	8.2 ND	9.0 ND	12.0 ND	7.4 ND	Z.1 ND
Methyl iodide	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	100 ug/l ¹	ND	ND	ND	ND	ND	ND	ND	4.9	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane Vinvl acetate	40 ug/l ² 410 ug/l ⁵	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND NT	ND ND	ND ND
Note: Low flow purging and sampli						ND	ND	ND	ND	ND	INT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	INT	ND	ND
 Threshold value given is the Mar 2. Threshold value given is the lifet 3. Threshold value given is the Sec 4. Threshold value given is the Pre 5. Threshold value given is the Pre 6. Constituent concentration was rn higher than previous reporting lin No threshold value has been provident. 	ime health adviso condary Drinking V nking Water Advis liminary Remedia eported above its nits. Therefore, t	ry as prov Water Reg sory as pro I Goal (PF Iaboratory o be cons	rided in th gulation (ovided in RG) for ta method o istent with	e USEP/ SDWR) a the USEI p water, a detection h historic	A 2004 E as provide PA 2004 as provide limit, but al data, o	dition of th ed in the U Edition of 1 ed in the C lower thar nly those c	e Drinking SEPA 200 the Drinkin Ictober 200 h its laborat	Water Sta 4 Edition o 9 Water S 2 USEPA tory reporti	ndards an of the Drini tandards a Region 9 ng limit an	d Health A king Water and Health PRGs Tat d historica	dvisories Standard Advisorie ble 2002 L I reporting	ls and Healt s Jpdate I limit. How	h Advisori ever, the re	eporting lir			nificantly						= Exceeder	1 MCL
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SEP 18 JUN 18 MAR 18 DEC 17 SEP 17 JUN 17 MAR 17 DEC 16 SEP 16 JUN 16 MAR'16 DEC'15 SEP'15 JUN'15 MAR'15 DEC'14 SEP'14 JUN'14 MAR'14 DEC'13 SEPT'13 JUN'13 MAR'13 DEC'12 SEPT'12 JUN'12 MAR'12 DEC'11 SEPT'11 JUN'11 MAR'11 DEC'10 SEPT '10 JUN '10 Paramete
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shold value has been provided for parameters not identified in the sources listed above

TABLE 1 (CONT.) SUMMARY OF GROUNDWATER MONITORING RESULTS APPENDIX A - CONSTITUENTS FOR DETECTION MONITORING MONITORING WELL OW-13 Concentration (Expressed in same units as Threshold Value)

Parameter	Threshold	SEP '18	JUN '18	MAR '18	DEC '17	SEP '17	JUN '17	MAR '17	DEC '16	SEP '16	JUN '16	MAR '16	DEC '15	SEP '15	JUN '15	MAR '15	DEC '14	SEP '14	JUN '14	MAR '14	DEC '13	SEPT '13	JUN '13	MAR '13	DEC '12	SEPT '12	JUN '12	MAR '12	DEC '11	SEPT '11	JUN '11	MAR '11	DEC '10	SEPT '10
Antimory	Value 0.006 mg/L ¹	0.002	0.002	ND	0.0360	ND	0.0020	0.0080	ND	0.0110	ND	0.0050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100	0.0200	ND	ND	ND							
Arsenic	0.010 mg/L ¹	0.002	0.002	0.0070	ND	0.0050	0.0200	ND	ND	0.0110	ND	0.0190	0.0100	0.0110	0.0070	0.0040	0.0200	0.0070	ND	0.0140	0.0160	0.0070	0.0080	0.0070	ND	ND	0.0060	0.0050	0.0050	0.0090	ND	0.0096	0.0094	0.0108
Barium	2 mg/L1	0.089	0.089	0.1150	0.0970	0.0460	0.0860	0.1080	0.0990	0.1830	0.0890	0.1700	0.0910	0.0870	0.0900	0.0890	0.1400		0.0700	0.1180	0.0780	0.0650	0.0690	0.0750	0.0770	0.0760	0.0720	0.0760	0.0650	0.0760	0.0800	0.0912	0.0817	0.0807
Beryllium	0.004 mg/L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	0.005 mg/L ¹	0.003	0.004	0.0040	ND 0.0010	0.0020 ND	0.0030	0.0050	ND ND	0.0290	ND 0.0050	0.0050 ND	0.0040	0.0040 ND	ND ND	ND ND	0.0020	ND ND	0.0020	ND 0.0050	ND ND	ND ND	ND ND	0.0020 ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.0020 ND	ND ND	0.0004 ND	0.0004 ND ⁶	0.0004 ND
Cobalt	0.73 mgl ⁵	0.002	0.002	0.0130	0.0120	0.0070	0.0040	0.0030	0.0140	0.0330	0.0030	0.0150	0.0040	0.0120	0.0140	0.0160	0.0090	0.0110	0.0100	0.0050	0.0100	0.0090	0.0130	0.0120	ND	0.0100	0.0130	0.0120	0.0110	0.0120	0.0090	0.0192	0.0156	0.0138
Copper	1.3 mg/L ¹	ND	ND	ND	ND	ND	0.0100	ND	ND	0.0900	ND	0.0060	ND	0.0020	ND	0.0050	0.0730	0.0050	0.0050	0.0080	0.0230	0.0030	0.0050	ND	ND	ND	0.0060	0.0040	0.0020	0.0090	0.0300	0.0028	0.0018	0.0027
Lead	0.015 mg/L ¹	ND	ND	0.0020	ND	ND	0.0010	ND	0.0070	0.0350	0.0190	ND	ND	0.0020	0.0030	0.0030	0.0170	0.0040	0.0040	0.0070	0.0020	0.0020	0.0030	0.0020	0.0020	0.0020	ND	0.0020	ND	0.0040	0.0130	0.0015	ND	ND
Mercury Nickel	0.002 mg/L ¹	ND 0.012	ND 0.011	ND 0.0120	ND	ND	ND	ND	ND 0.0140	ND	ND 0.0130	ND 0.0130	ND 0.0120	ND	ND 0.0130	ND 0.0130	ND 0.0220	ND 0.0110	ND	ND	ND	ND	ND	ND	ND	ND 0.0100	ND 0.0110	ND	ND	ND 0.0110	ND	ND	ND ⁶	ND 0.0121
Nickel Selenium	0.1 mgl ² 0.05 mgl ¹	0.012 ND	0.011 ND	0.0120 ND	0.0290 ND	0.0060 ND	0.0120 ND	0.0350 ND	0.0140 ND	0.0465 ND	0.0130 ND	0.0130	0.0120 ND	0.0120 ND	0.0130 ND	0.0130	0.0220	0.0110	0.0100	0.0120	0.0100	0.0090	0.0100	0.0100 ND	0.0100 ND	0.0100	0.0110	0.0100	0.0090	0.0110	0.0060	0.0141 ND	0.0127 ND	0.0121 ND
Silver	0.1 mg/L ^{2.3}	ND	ND	ND	ND	0.0020	ND	0.0020	ND	ND	0.0010	0.0020	0.0020	ND	0.0010	0.0010	ND	0.0020	ND	0.0020	ND	0.0030	0.0340	ND	ND	ND								
Thallum	0.002 mg/L ¹	ND	ND	0.0003	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND												
Tin	22 mg/L ⁶	ND	ND	ND	ND	ND	ND	ND	ND	0.2800	0.1100	ND	0.0120	ND	ND	0.0010	ND	ND	ND	0.0170	0.0400	0.0090	0.0180	ND	ND ⁶	ND	ND							
Vanadium Zinc	0.26 mgl ² 2 mgl ^{2,3}	0.004	ND 0.012	ND 0.0170	0.0020	ND 0.0070	ND 0.0200	ND 0.0170	0.0060 ND	0.0390	0.0030	ND 0.0060	ND ND	ND 0.0070	ND ND	ND ND	0.0130	0.0020 ND	ND ND	0.0010	0.0040 ND	ND ND	0.0020	ND 0.0100	ND ND	ND ND	ND 0.0230	ND 0.0050	ND 0.0050	ND 0.0090	0.0200 ND	ND 0.0178	ND 0.0092	ND 0.0098
Acetone	2 mg/L ⁶	0.01 ND	0.012 ND	0.0170 ND	0.0070 ND	0.0070 ND	0.0200 ND	0.0170 ND	ND	0.1300 ND	0.0130 ND	0.0060 ND	ND	0.0070 ND	ND	ND	0.0470 ND	ND	ND	0.0090 ND	ND	ND	0.0110 ND	0.0100 ND	ND	ND	0.0230 ND	0.0050 ND	0.0050 ND	0.0090 ND	ND	0.0178 ND	0.0092 ND	ND
Acrylonitrile	0.039 µ9L ⁵	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	5 µ9%L1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ⁶	ND	ND
Bromochloromethane	80 µ9%22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane (THM) Bromoform	90 µgL'	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Eromotorm Carbon disulfide	80 μg/L 1000 μg/L ⁶	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5 µg/L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroberizene	100 µ9 [¶] L ¹	ND	4.72	5.40	ND	5.23	5.03	6.8	ND	5.5	2.5	6.6	7.4	6.3	6.1	7.4	8.1	ND	7.1	7.2	6.4	2.2	3.9	6.8	6.3	1.6	4.2	6.7	6.5	6.0	3.7	6.2	5.6	5.9
Chloroethane	4.6 µ9℃	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	1.3
Chloroform	80 µ9"L1	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND													
Chlorodibromomethane (THM) 1.2-Dibromo-3-chloropropane (DBCP)	80 µgL' 0.2 µgL'	ND ND	ND	ND ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND													
1,2-Dibromoethane (EDB)	0.05 µg/L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	600 µg/L ¹	ND	ND	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND											
1,4-Dichlorobenzene	75 µgL'	ND	ND	ND	ND	1.11	ND	1.4	1.2	1.3	ND	ND	1.4	ND	ND	ND	ND	1.0	1.2	ND	ND	1.2	ND	1.4	1.0	ND ⁶	1.1	1.2						
trans-1,4-Dichloro-2-butene 1.1-Dichloroethane	μgt. 5 μgt.	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1-Dichloroethane	5 µ9°L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	7 µ9'L1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichbroethene	70 µ9L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichbroethene	100 µ9L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane cis-1,3-Dichloropropene	5 µgL' µgL	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
trans-1,3-Dichloropropene	ugit.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700 µ9 [¶] L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl butyl ketone(2-Hexanone)	160 µ9°L ⁵	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	10 µ9L ²	ND ND	ND ND	ND	ND	ND	ND ND	ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND ND	ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND ND
Chloromethane	30 µ9L ² 61 µ9L ⁶	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Methylene chloride	5 µ91L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone(2-Butanone)	4000 µgL ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl iodide	μgL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	µgL	ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND														
Styrene 1.1.1.2-Tetrachloroethane	100 μgL ¹ 70 μgL ²	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND														
1.1.2.2-Tetrachloroethane	0.3 µ9L ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene(PCE)	5 µ9%L1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000 µ9℃	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane 1,1,2-Trichloroethane	200 μg/L ¹ 5 μg/L ¹	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1,2-I nchoroethane Trichloroethylene(TCE)	5 μg/L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroflouromethane	2000 µ9L ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	40 µ9℃²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	410 µ9%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride Xvlenes	2 μgL ¹ 10000 μgL ¹	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Xylenes Methyl tert-butyl ether (MTBE)	10000 µ9⊏ 20-40 µgL ⁴	ND ND	ND 3.26	ND ND	ND ND	ND 3.70	ND 3.53	ND 6.1	ND ND	ND 3.6	ND 2.6	ND 4.1	ND 4.9	ND 3.2	ND 5.2	ND 4.5	ND 2.9	ND ND	ND 4.2	ND 5.0	ND 5.4	ND 3.3	ND 3.3	ND 5.0	ND 4.5	ND 2.8	ND 3.8	ND 4.5	ND 2.8	ND 4.7	ND 3.2	ND 7.9	ND 3.8	ND 3.4
		eded MCL															210			0.0													0.0	
 Threshold value given is the Max 			ICL) as n	rovided in	n the USF	PA 2004	Edition of	the Drink	ing Wate	r Standar	ds and H	ealth Artu	risories																					
 Threshold value given is the lifeti 																																		
 Threshold value given is the Sector 													Health A	tvisories																				
 Threshold value given is the Octor Threshold value given is the Drin 																																		
 Threshold value given is the Preli 																																		
 Constituent concentration was rep 																																		
However, the reporting limit this r																																		
constituents with concentrations I																																		
Ma three hald only a base being and			and the state		Para di shi																													

No threshold value has been provided for parameters not identified in the sources listed above

TABLE 1 (CONT.) SUMMARY OF GROUNDWATER MONITORING RESULTS APPENDIX A - CONSTITUENTS FOR DETECTION MONITORING MONITORING WELL OW-14 Concentration (Expressed in same units as Threshold Value)

Parameter Threaded SEP18 JUN13 MAR18 DEC17 SEP14 JUN17 MAR17 DEC16 SEP18 JUN13 MAR19 DEC17 SEP11 JUN11 MAR11 DEC16 SEP16 JUN13 MAR19 DEC17 SEP11 JUN11 DEC16 SEP16 JUN13 MAR19 DEC17 SEP11 JUN111 DEC16 SEP16 JUN13 DEC16 SEP16 JUN13 DEC16 SEP16 JUN11														SEP '15	JUN '15	MAR '15	DEC '14	SEP '14	JUN '14	MAR '14	DEC '11	SEPT '11	MAR '11	DEC '10	SEPT '10	JUN '10									
																																			ND 0.0070
Barium	2 mg/L ¹	NT	0.01	0.2240	0.0030	NT	0.0200	0.0120	0.2290	NT	0.1380	0.0070	0.1980	0.0050	NT	0.2020	0.0910	NT	0.1570	0.1840	0.0790	NT	0.0060	0.1760	0.1370	NT	0.1750	0.1770	0.1470	0.0060	0.2100	0.0074	0.2030	NT	0.1900
Berylium	0.004 malL1	NT	ND	ND	ND	NT	0.0030	ND	ND	NT	0.0010	0.0010	ND	0.0010	NT	ND	ND	NT	ND	ND	0.0010	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	0.0010	NT	ND
Cadmium	0.005 mg/L ¹	NT	0.006	0.0050	ND	NT	0.0050	0.0060	ND	NT	ND	0.0070	0.0080	0.0060	NT	ND	ND	NT	0.0050	0.0010	ND	NT	ND	0.0020	ND	NT	ND	0.0040	0.0030	0.0030	ND	ND ⁶	ND ⁶	NT	ND
Chromium	0.1 mg/L ¹	NT	0.001	0.0060	0.0020	NT	0.0010	0.0020	ND	NT	0.0110	0.0030	0.0030	0.0170	NT	0.0050	0.0050	NT	0.0040	0.0010	0.0080	NT	ND	0.0050	ND	NT	ND	ND	ND	ND	ND	ND	0.0065	NT	0.0018
Cobalt	0.73 mgL ⁶	NT	0.006 ND	0.0140	0.0090 ND	NT	0.0140	0.0130 ND	0.0360	NT	0.0100	0.0100	0.0100 ND	0.0120	NT NT	0.0170	0.0120	NT	0.0080	0.0150	0.0120	NT NT	0.0080	0.0160	0.0370	NT NT	0.0140 ND	0.0100 ND	0.0100	0.0160	0.0090 ND	0.0457	0.0261	NT	0.0130
Copper Lead	1.3 mg/L 0.015 mg/L ¹	NT	ND	0.0090	ND	NT	0.0100	ND	0.0200 ND	NT	0.0010	0.0010	ND	0.0170	NT	0.0100	0.0050	NT	0.0070	0.0050	0.0200	NT	0.0030	0.0080	0.0100	NT	0.0020	ND	0.0010	0.0090	ND	0.0049 ND	0.0140	NT	0.0050
Mercury	0.002 mg/L1	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Nickel	0.1 mg/L ²	NT	0.012	0.0220	0.0320	NT	0.0220	0.0470	0.0400	NT	0.0160	0.0160	0.0170	0.0200	NT	0.0270	0.0180	NT	0.0150	0.0230	0.0200	NT	0.0120	0.0200	0.0350	NT	0.0190	0.0170	0.0150	0.0180	0.0180	0.0460	0.0407	NT	0.0170
Selenium	0.05 mg/L1	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	0.0350	0.0140	NT	ND	ND	0.0260	NT	ND	ND	ND	NT	0.0200	0.0310	0.0240	0.0300	ND	ND	ND	NT	ND
Silver	0.1 ma/L ^{2.3}	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	0.0040	NT	0.0020	ND	NT	0.0020	0.0020	ND	NT	ND	0.0020	ND	NT	ND	0.0040	ND	0.0050	ND	ND	ND	NT	ND
Thalium Tin	0.002 mg/L ¹ 22 mg/L ⁶	NT NT	ND ND	0.0003 ND	0.0003 ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND 0.0350	ND ND	ND 0.0070	0.0010	NT NT	ND ND	ND ND	NT	ND ND	ND 0.0220	ND 0.0180	NT NT	ND 0.0310	ND ND	ND ND	NT	ND ND	ND ND	0.0010 ND	ND ND	ND ND	ND ND ⁶	ND ND	NT	ND ND
Vanadium	0.26 mall ⁶	NT	ND	0.0070	0.0030	NT	0.0070	ND	ND	NT	0.0170	ND	ND	0.0140	NT	0.0080	0.0050	NT	0.0050	0.0020	0.0080	NT	0.0030	0.0060	ND	NT	ND	ND	ND	ND	0.0290	ND	0.0063	NT	0.0028
Zinc	2 mg/L ^{2,3}	NT	0.031	0.0480	0.0160	NT	0.0600	0.0230	0.0300	NT	0.0280	0.0170	0.0140	0.0680	NT	0.0240	0.0190	NT	0.0070	0.0100	0.0310	NT	0.0120	0.0310	0.0210	NT	0.0160	0.0070	0.0070	0.0270	ND	0.0453	0.0570	NT	0.0094
Acetone	610 µg/L ⁵	NT	ND	ND	ND	NT	ND	6.9	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	6.4	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Acrylonitrile	0.039 µg/L ⁵	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Benzene Bromochloromethane	5 µg/L ¹ 80 µg/L ²	NT NT	2.77 ND	ND ND	ND ND	NT NT	3.2 ND	4.1 ND	ND ND	NT NT	2.7 ND	3.1 ND	3.9 ND	2.0 ND	NT NT	3.5 ND	ND ND	NT NT	3.3 ND	3.6 ND	ND ND	NT NT	2.9 ND	4.3 ND	1.9 ND	NT NT	1.8 ND	3.5 ND	3.6 ND	4.1 ND	2.1 ND	3.7 ND	1.7 ND	NT NT	3.6 ND
Bromochipromethane Bromodichloromethane (THM)	90 µ9/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Bromoform	80 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Carbon disulfide	1000 µg/L ⁵	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Carbon tetrachloride	5 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Chlorobenzene	100 µg/L1	NT	13.3	10.8 ND	ND	NT	13.42	15.6	ND	NT	12.5	13.5	15.4	10.7	NT	16.7	5.3	NT	15.7	15.7	3.2	NT	11.3	19.1	8.0	NT	7.0	14.3	14.6	16.5	7.1	15.3	6.1	NT	14.0
Chloroethane Chloroform	4.6 μg/L ⁵ 80 μg/L ¹	NT NT	ND ND	ND ND	ND ND	NT NT	2.27 ND	ND ND	ND ND	NT NT	3.3 ND	ND ND	2.0 ND	1.5 ND	NT NT	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	2.5 ND	ND ND	NT NT	ND ND	1.4 ND	2.4 ND	ND ND	1.6 ND	1.3 ND	ND ND	NT NT	3.0 ND
Chlorodibromomethane (THM)	80 µg/L1	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.2 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,2-Dibromoethane (EDB)	0.05 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,2-Dichlorobenzene	600 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,4-Dichlorobenzene trans-1,4-Dichloro-2-butene	75 μg/L' μg/L	NT NT	2.62 ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	1.8 ND	ND ND	ND ND	2.2 ND	NT NT	3.3 ND	ND ND	NT NT	3.4 ND	ND ND	ND ND	NT NT	2.2 ND	2.9 ND	1.8 ND	NT NT	1.4 ND	2.7 ND	2.2 ND	3.2 ND	1.8 ND	2.7 ND	1.9 ND	NT NT	3.0 ND
1.1-Dichloroethane	5 µg/L	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,2-Dichloroethane	5 µg/L	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,1-Dichloroethylene	7 µg/L1	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
cis-1,2-Dichloroethene	70 µ9/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
trans-1,2-Dichloroethene	100 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,2-Dichloropropane cis-1,3-Dichloropropene	5 µg/L' µg/L	NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT	ND ND
trans-1,3-Dichloropropene	ug/L	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Ethylbenzene	700 µg/L1	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Methyl butyl ketone(2-Hexanone)	160 µg/L ⁵	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Bromomethane	10 µg/L ²	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Chloromethane	30 μg/L ² 61 μg/L ⁵	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Dibromomethane Methylene chloride	5 µg/L ¹	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT	ND ND
Methylethyl ketone(2-Butanone)	4000 µg/L ²	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Methyl iodide	µg/L	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
4-Methyl-2-pentanone	µg/L	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Styrene	100 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane	70 μg/L ² 0.3 μg/L ²	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND
Tetrachloroethylene(PCE)	5 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Toluene	1000 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,1,1-Trichloroethane	200 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,1,2-Trichloroethane	5 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Trichloroethylene(TCE)	5 µg/L'	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Trichloroflouromethane	2000 µg/L ²	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
1,2,3-Trichloropropane Vinvl acetate	40 μg/L ² 410 μg/L ⁵	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	ND ND
Vinyl adetate Vinyl chloride	2 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Xylenes	10000 µg/L ¹	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND
Methyl tert-butyl ether (MTBE)	20-40 µg/L ⁴	NT	6.23	9.4	ND	NT	7.08	16.5	ND	NT	6.7	7.7	12.3	6.9	NT	11.2	1.7	NT	6.6	14.8	4.3	NT	6.9	11.9	11.0	NT	7.5	8.4	6.6	12.4	7.0	16.3	12.3	NT	5.3
	= Excee	ded MCL																																	
1. Threshold value given is the Max	imum Contamina	nt Level (I	MCL) as p	rovided in	n the USEI	PA 2004	Edition of	the Drink	king Water	Standar	ds and He	alth Advis	ories																						
2. Threshold value given is the lifeti	me health adviso	ry as prov	ided in the	USEPA	2004 Editi	ion of th	e Drinking	Water St	andards a	nd Health	Advisori	35																							
3. Threshold value given is the Seci													lealth Ad	visories																					
 Threshold value given is the Drin 																																			
5. Threshold value given is the Prel																																			
6. Constituent concentration was re																																			
However, the reporting limit this																																			
constituents with concentrations I																																			
			5																																
Manufacture in the second state			and the state		Frank all all a																														

No threshold value has been provided for parameters not identified in the sources listed above NT = Not Tested due to dry conditions at well.

TABLE 1 (CONT.) SUMMARY OF GROUNDWATER MONITORING RESULTS APPENDIX A - CONSTITUENTS FOR DETECTION MONITORING MONITORING WELL OW-15 Concentration (Expressed in same units as Threshold Value)

Parameter	Threshold	SEP '18	JUN '18	MAR '18	DEC '17	SEP '17	JUN '17	MAR '17	DEC '16	SEP '16	JUN '16	MAR '16	DEC '15	SEP '15	JUN '15	MAR '15	DEC '14	SEP '14	JUN '14	MAR '14	DEC '13	SEPT '13	JUN '13	MAR '13	DEC '12	SEPT '12	JUN '12	MAR '12	DEC '11	SEPT '11	JUN '11	MAR '11	DEC '10	SEPT '10	JUN '10
Antimory	Value 0.006 mg/L ¹	0.0040	ND	ND	0.0300	ND	0.0020	0.0340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0060	0.0070	0.0060	0.0400	ND	ND	ND	ND	ND
Arsenic	0.010 mg/L ¹	0.03	0.03	0.0200	0.0200	0.0300	0.0300	ND	ND	0.0700	0.0130	0.0320	0.0170	ND	ND	0.0160	ND	0.0350	ND	ND	0.0050		0.0130	0.0180	0.0040	0.0300	ND	ND	0.0110	ND	ND	0.0023	0.0338	0.0362	ND
Barium	2 mg/L1	0.084	0.096	0.1280	0.1240	0.0850	0.0890	0.1230	0.1560	0.3100	0.0600	0.1130	0.1840	0.1390	0.2230	0.1260	0.1350	0.1060	0.1810	0.1180	0.1340	0.0750	0.1510	0.1550	0.1340	0.1010	0.2360	0.2350	0.1620	0.1930	ND	0.1890	0.1260	0.1110	0.2900
Beryllium	0.004 mg/L1	ND	ND	ND	ND	ND	ND	ND	ND	0.0060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0010	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0050	ND	ND	ND ⁶	ND
Cadmium	0.005 mg/L	0.007	0.010	0.0090	ND	0.0100	0.0050	0.0100	0.0050	0.0460	ND	0.0100	0.0080	0.0070	ND	ND	ND	ND	0.0100	0.0010	ND	0.0010	ND	0.0040	ND	0.0020	ND	0.0060	0.0010	0.0040	ND	ND	ND ⁶	ND [®]	ND
Chromium	0.1 mg/L ¹	ND	ND	ND	ND	0.0030	ND	0.0020	ND	0.1180	0.0020	0.0010	0.0050	0.0020	0.0010	ND	ND	0.0030	0.0030	0.0030	ND	ND	ND	ND	ND	0.0020	ND	0.0020	ND	ND	ND	ND	ND ⁶	0.0018	0.0018
Cobalt	0.73 mg/L ⁵	0.014	0.012	0.0100	0.0090	0.0180	0.0130	0.0040	ND	0.2300	0.0080	0.0180	0.0070	0.0040	0.0020	0.0120	ND	0.0190	0.0020	ND	0.0010	0.0140	0.0100	0.0060	0.0020	0.0170	0.0030	0.0040	0.0090	0.0020	ND	0.0039	0.0185	0.0244	0.0017
Copper Lead	1.3 mg/L ¹ 0.015 mg/L ¹	ND 0.0020	ND ND	ND 0.0020	ND ND	ND ND	ND 0.0020	ND ND	ND 0.0050	0.1400	ND 0.0140	ND ND	ND ND	ND ND	ND 0.0040	0.0020	ND 0.0040	ND 0.0110	0.0080	0.0040	0.0240	0.0050	0.0060	0.0060	ND 0.0030	ND 0.0050	ND 0.0020	0.0030	0.0040	0.0100	0.2400 ND	ND ND	0.0012	0.0059	0.0028
Mercury	0.002 mg/L ¹	0.0020 ND	ND	0.0020 ND	ND	ND	ND	ND	ND	0.1350 ND	0.0140 ND	ND	ND	ND	0.0040 ND	0.0020 ND	0.0040 ND	ND	0.0040 ND	ND	0.0030 ND	0.0020 ND	ND	ND	0.0030	ND	0.0020 ND	0.0020 ND	0.0010 ND	0.0030 ND	ND	ND	ND	0.0025 ND	ND
Nickel	0.1 mg/L ²	0.029	0.023	0.0200	0.0510	0.0350	0.0240	0.0520	0.0110	0.6610	0.0140	0.0290	0.0170	0.0100	0.0110	0.0180	0.0080	0.0330	0.0120	0.0070	0.0110	0.0230	0.0190	0.0150	ND	0.0270	0.0110	0.0130	0.0160	0.0090	0.0140	0.0086	0.0374	0.0396	0.0097
Selenium	0.05 mg/L1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0220	ND	ND	ND	ND	0.0160	ND	ND	ND	ND	0.0100	0.0120	0.0180	0.0110	0.0190	0.0400	ND	ND ⁶	ND	ND
Silver	0.1 mg/L ^{2,3}	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0030	0.0020	0.0150	0.0030	0.0030	0.0050	0.0020	0.0030	0.0030	ND	0.0040	ND	0.0050	ND	0.0050	ND	ND	ND ⁶	ND ⁶	ND
Thallum	0.002 mg/L ¹	ND	ND	ND	ND	ND	ND	0.0020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	22 mg/L ⁵	ND	ND	ND	ND	ND	ND	ND	ND	1.0600	ND	ND	0.0470	ND	ND	ND	ND	ND	ND	0.0270	0.0780	0.0210	0.0400	ND	ND	ND	ND	ND	ND	ND	ND	ND ⁶	ND ⁶	ND ⁶	ND
Vanadium	0.26 mg/L ⁵	0.0110	ND	0.0060	0.0040	0.0110	ND	ND	0.0150	0.1560	0.0050	ND	ND	0.0020	ND	0.0040	0.0050	0.0060	0.0040	0.0030	0.0090	0.0030	0.0050	0.0040	0.0040	0.0030	0.0030	0.0020	0.0020	ND	0.0160	ND	0.0012	0.0023	0.0023
Zinc	2 mg/L ²³	0.015	0.032	0.0210	0.0100	0.0300	0.0200	0.0140	ND	0.9700	ND	0.0120	0.0150	0.0080	ND	ND	ND	ND	ND	ND	ND	ND	0.0150	0.0200	ND	0.0280	0.0090	0.0120	0.0060	0.0170	ND	0.0181	0.0147	0.0227	ND
Acetone	610 µgL ⁵ 0.039 µgL ⁶	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	5.2 ND	ND ND	ND ND	6.7 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	5.6 ND	ND ND	ND ND	ND ND	18.6 ND	ND ND	6.8 ND	ND ND	ND ND	ND ND						
Acrylonitrile Benzene	5 µ9/L ¹		1.67	ND	ND	3.59	2.83	ND	ND	34		2.1	3.2	1.7	2.0	2.8		3.6	2.2	2.1	2.8	3.4	2.7	2.8	2.5	3.4	3.1	2.7		3.5	2.1	1.9	33	3.5	2.5
Bromochloromethane	80 µg/L ²	ND ND	1.67 ND	ND	ND	3.59 ND	2.83 ND	1.0	ND	3.4 ND	3.2 ND	2.1 ND	3.2 ND	1.7 ND	2.0 ND	2.8 ND	2.8 ND	3.6 ND	ND 2.2	2.1 ND	2.8 ND	3.4 ND	2.7 ND	2.8 ND	2.5 ND	3.4 ND	3.1 ND	2.7 ND	3.2 ND	3.5 ND	2.1 ND	1.9 ND	3.3 ND	3.5 ND	2.5 ND
Bromodichloromethane (THM)	90 µg/L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	80 µgL ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	1000 µgL ⁵	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5 µgL'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	100 µ9€1	14.0	12.72	17	15.2	18.19	21.26	17.4	21.5	16.0	16.8	17.7	18.3	21.0	21.1	19.7	26.9	19.0	27.0	25.0	32.5	18.9	14.3	20.0	29.0	15.5	12.4	16.9	15.8	25.0	11.8	23.1	19.8	16.9	12.0
Chibroethane	4.6 µ9€ ⁵	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	2.9	1.4
Chibroform	80 µ9€.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane (THM)	80 µ9€.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND
1,2-Dibromo-3-chloropropane (DBCP) 1,2-Dibromoethane (EDB)	0.2 μgL' 0.05 μgL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	600 µgL ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	1.0	1.3	ND	ND	ND	1.2	ND	ND	ND	ND						
1.4-Dichlorobenzene	75 ug/L ¹	ND	ND	ND	ND	2.51	ND	1.6	ND	ND	2.1	ND	ND	3.4	2.9	3.0	ND	ND	3.4	ND	ND	2.1	2.3	2.6	3.2	1.9	1.9	2.3	1.5	3.1	2.1	2.9	2.4	2.4	2.1
trans-1,4-Dichloro-2-butene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5 µ91L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5 µ9%.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	7 µ9L'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	70 µ9L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene 1.2-Dichloropropane	100 µgL' 5 µgL'	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
cis-1,3-Dichloropropene	որել հեր	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1.3-Dichloropropene	ugt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyberizene	700 µ9L1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl butyl ketone(2-Hexanone)	160 µ9%.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	10 µ91L ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	30 µ9€²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	61 µ91L°	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	5 µgL'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone(2-Butanone)	4000 µgL ²	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Methyl iodide 4-Methyl-2-pentanone	µgL	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
storene	100 µgL ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1.1.1.2-Tetrachloroethane	70 µ9L ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.3 µg/L ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene(PCE)	5 µ9L1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000 µ9€ ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200 µg/L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5 µg1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene(TCE)	5 µgt.'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroflouromethane	2000 µgL ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	40 μgL ² 410 μgL ⁶	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Vinyl acetate Vinyl chloride	2 μg/L ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xvienes	10000 µgL ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	33	ND	ND	22	54	ND	ND	3.1	ND	61	2.0	3.9	ND	ND	6.5
Methyl tert-butyl ether (MTBE)	20 - 40 μg/L ⁴	7.0	6.61	ND	6.3	7.52	7.69	8.5	ND	7.9	7.9	6.8	7.8	6.7	12.2	7.1	4.2	6.0	9.4	5.4	7.7	8.3	10.3	6.1	3.9	8.8	9.5	9.5	5.5	7.5	7.1	7.9	6.1	7.6	5.7
· · · · · · ·	= Excer	eded MCL																																	

Exceeded ML
 Threshold value given is the Maximum Constantiant Level (MCL) as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
 Threshold value given is the Maximum Constantiant Level (MCL) as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
 Threshold value given is the Scondards Prinking Water Respiration (SDWR) as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
 Threshold value given is the Scondards Prinking Water Respiration (SDWR) as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
 Threshold value given is the Pointiming Remedial Call (RPG) for tay water, as provided in the USEPA 2002 USEPA Region PROS Table 2002 Update
 Sconstaturet concentration was reported above its bischarby method detection limit, but lower than its bischarby reporting limit.
 Thereshold value given is the Pointiming was significantly higher than previous reporting limits. Therefore, to be consistent with Nistorical data, only those
 constituents with concentrations lower than historical reporting limits.

No threshold value has been provided for parameters not identified in the sources listed above

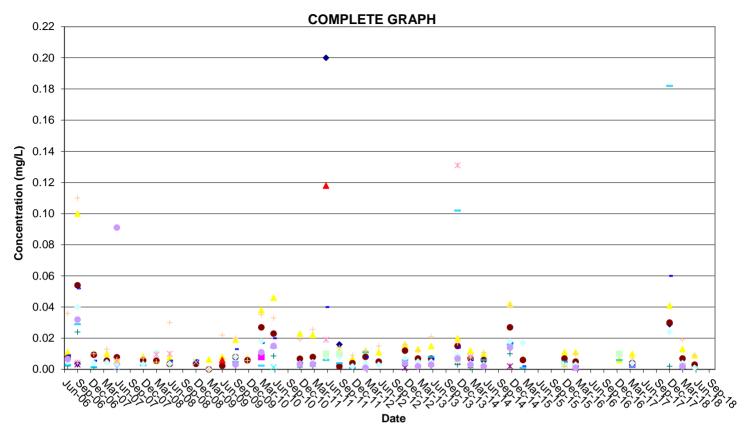
	TABLE 1 (CONT.) SUMMARY OF GROUNDWATER MONITORING RES APPENDIX A - CONSTITUENTS FOR DETECTION MON MONITORING WELL 0W-16									
				Concentration (Expressed in same units as Threshold Value)						
Parameter		shold lue	SEP '18	JUN '18	MAR '18	NOV '17				
Antimony	0.006	mg/L1	ND	0.002	ND	ND				
Arsenic	0.010	mg/L1	ND	0.01	ND	ND				
Barium		mg/L1	0.027	0.011						
Berytlium	0.004		ND	ND	ND	ND				
Cadmium Chromium	0.005	mg/L ¹	ND 0.003	ND 0.004	ND	ND				
Cobalt		mg1. ⁶		0.004						
Copper		mg/L ¹	ND	ND	ND	ND				
ead	0.015		ND	ND	ND	ND				
Mercury	0.002	mg/L1	ND	ND	ND	ND				
Nickel		mg/L ²		0.009						
Selenium	0.05	mg1_1			0.0100					
Silver	0.1	mgL ²³	ND	ND	ND	ND				
Thallium	0.002	mgL'	ND ND	ND ND	0.0003 ND	ND ND				
fin /aradium		mgl" mgl	ND ND	ND ND	ND ND	ND ND				
/anadium /inc	0.26	mgL ^{2,3}	ND 0.019	ND 0.022	ND 0.024					
sinc	£10	μg/L ⁶	0.019 ND	0.022 ND	0.024 ND	0.0210 ND				
Acrylonitrile	0.039	µgL ⁶	ND	ND	ND	ND				
Benzene	5	µgL1	ND	ND	ND	ND				
Bromochloromethane	80	µgL ²	ND	ND	ND	ND				
Bromodichloromethane (THM)	90	ագե՝	ND	ND	ND	ND				
Bromoform	80	µgL1	ND	ND	ND	ND				
Carbon disulfide	1000	µgL ⁵	ND	ND	ND	ND				
Carbon tetrachloride	5	µgL ¹	ND	ND	ND	ND				
Chlorobenzene		µg/L ¹ µg/L ⁶	ND ND	ND ND	ND ND	ND ND				
Chiproethane Chiproform		µg/L*	ND ND	ND ND	ND ND	ND ND				
Chlorodibromomethane (THM)		µg/L ¹	ND	ND	ND	ND				
1,2-Dibromo-3-chloropropane (DBCP)		µgL ¹	ND	ND	ND	ND				
,2-Dibromoethane (EDB)	0.05	µgt.1	ND	ND	ND	ND				
,2-Dichlorobenzene		µgL1	ND	ND	ND	ND				
1,4-Dichlorobenzene	75	µgL1	ND	ND	ND	ND				
rans-1,4-Dichloro-2-butene		μgt	ND	ND	ND	ND				
1,1-Dichloroethane		μgt	ND	ND	ND ND	ND ND				
1,2-Dichloroethane		µgt.	ND ND	ND ND	ND	ND ND				
1,1-Dichloroethylene :is-1,2-Dichloroethene	7	μgt.' µgt.'	ND ND	ND	ND	ND ND				
rans-1,2-Dichloroethene		µցւ՝	ND	ND	ND	ND				
1,2-Dichloropropane		μg/L'	ND	ND	ND	ND				
is-1,3-Dichibropropene	5	μgiL	ND	ND	ND	ND				
rans-1,3-Dichloropropene		μgt	ND	ND	ND	ND				
Ithylbenzene		µg¢.'	ND	ND	ND	ND				
Methyl butyl ketone(2-Hexanone)	160	µgt."	ND	ND	ND	ND				
Bromomethane	10	µgL ²	ND	ND	ND	ND				
Chloromethane		µgt. ²	ND	ND	ND	ND				
Dibromomethane	61	µgL°	ND ND	ND ND	ND ND	ND ND				
Methylene chloride	5 4000	µgt.'	ND ND	ND ND	ND ND	ND ND				
Methyl ethyl ketone(2-Butanone) Methyl iodide	4000	րցե	ND ND	ND	ND	ND ND				
Methyl-2-pentanone		µg¢.	ND	ND	ND	ND				
Styrene	100	µgL1	ND	ND	ND	ND				
1,1,2-Tetrachloroethane	70	µgL ²	ND	ND	ND	ND				
1,1,2,2-Tetrachloroethane	0.3	µg/L ²	ND	ND	ND	ND				
fetrachloroethylene(PCE)	5	µgL1	ND	ND	ND	ND				
foluene	1000	ագե՝	ND	ND	ND	ND				
1,1,1-Trichloroethane	200	µgL ¹	ND	ND	ND	ND				
1,1,2-Trichloroethane	5	µgt.1	ND	ND	ND	ND ND				
frichloroethylene(TCE)	5 2000	ugt.1	ND ND	ND ND	ND ND	ND ND				
Frichloroflouromethane 1,2,3-Trichloropropane		μg/L ²	ND ND	ND ND	ND ND	ND ND				
/.z.3+1 nonioropropane /inyl acetate	40	րցւ բցլ	ND	ND	ND	ND				
/inyl chloride	-10	µg/L1	ND	ND	ND	ND				
(vienes	10000	unt 1	ND	ND	ND	ND				

Exceeded MCL
 Threshold value given is the Mammun Cortaminant Level (MCL) as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
 Threshold value given is the Mittern banking vary provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
 Threshold value given is the Mittern banking vary provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
 Threshold value given is the Diriking Water Advisory are routed in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
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 Threshold value given is the Drinking Water Advisory are routed in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories
 Constituent contrastition was regorded in the USEPA 2004 Edition of the Drinking Value
 Constituent contrastition was regorded and break the Material Provided in the USEPA 2004 USEPA Region 9 PROs Table 2002 Update
 Constituent contrastition was regorded are the Drinking Water Standards and Health Advisories
 constituent avait for contrastition was significantly higher than previous reporting limits. Therefore, to be consistent with historical data, only hose
 constituent contextrations lower than historical reporting limits were reported as non-detext.

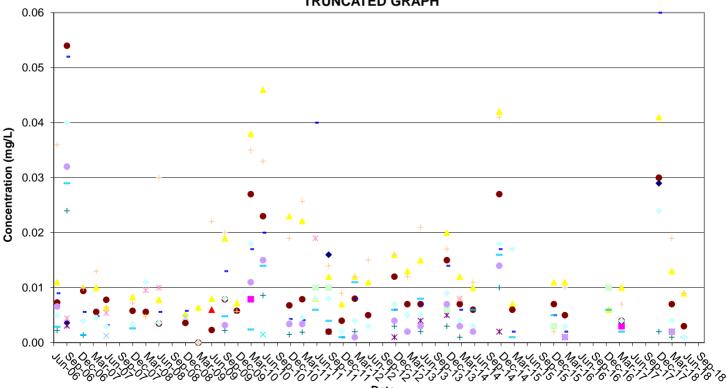
No threshold value has been provided for parameters not identified in the sources listed above

<u>ATTACHMENT NO. 3</u> HISTORICAL DETECTED METALS GRAPHS

Detected Appendix A Metals in OW-9 Tiverton Landfill



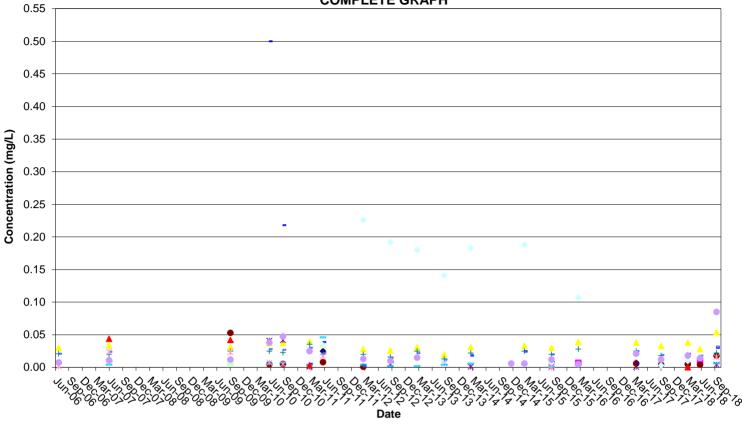
[◆]Antimony ■Arsenic ▲Barium ×Beryllium ×Cadmium ◆Chromium +Cobalt -Copper -Lead Nickel Selenium ▲Silver ×Thallium ×Tin ●Vanadium +Zinc -Mercury



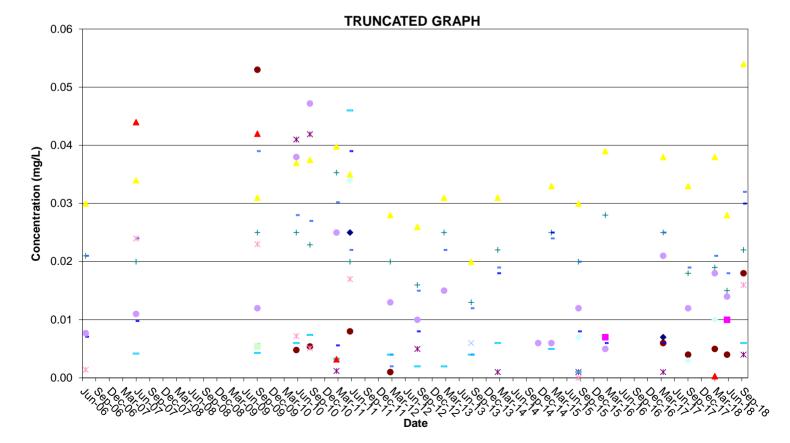
TRUNCATED GRAPH

Detected Appendix A Metals in OW-7 Tiverton Landfill

COMPLETE GRAPH

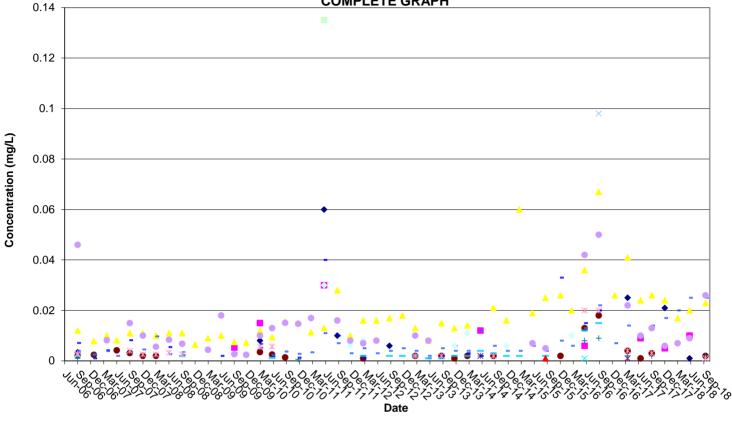


◆Antimony ■Arsenic ▲Barium ×Beryllium ×Cadmium ●Chromium +Cobalt -Copper -Lead -Nickel Selenium ■Silver ▲Thallium ×Tin ×Vanadium ●Zinc +Mercury

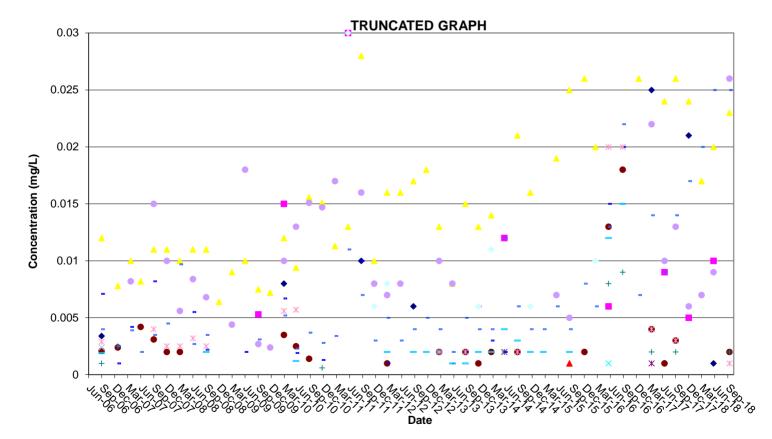


Detected Appendix A Metals in OW-12 Tiverton Landfill

COMPLETE GRAPH

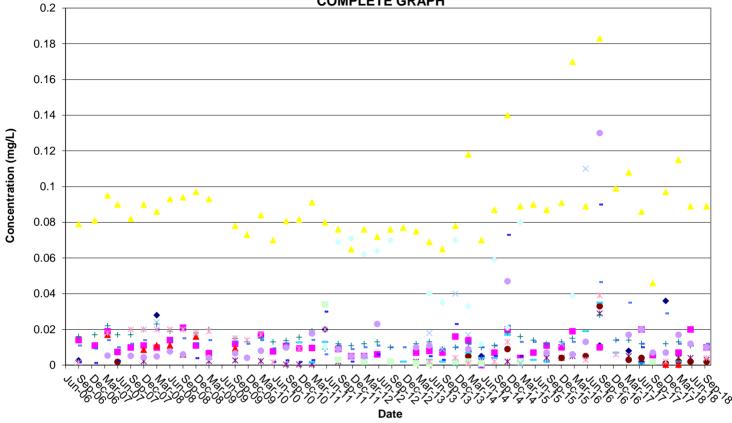


Antimony
Arsenic
Abarium
Xearyllium
Xearyllium
Corponium
Corponium
Copper
Lead
Nickel
Selenium
Silver
Tin
Xuanadium
Zin
Abarium
Zin

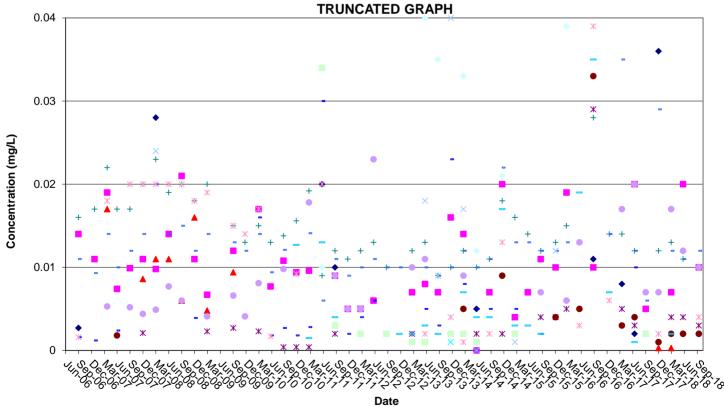


Detected Appendix A Metals in OW-13 Tiverton Landfill

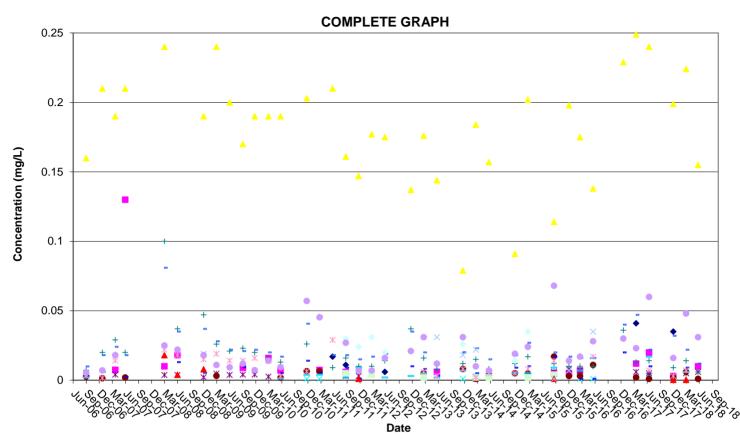
COMPLETE GRAPH



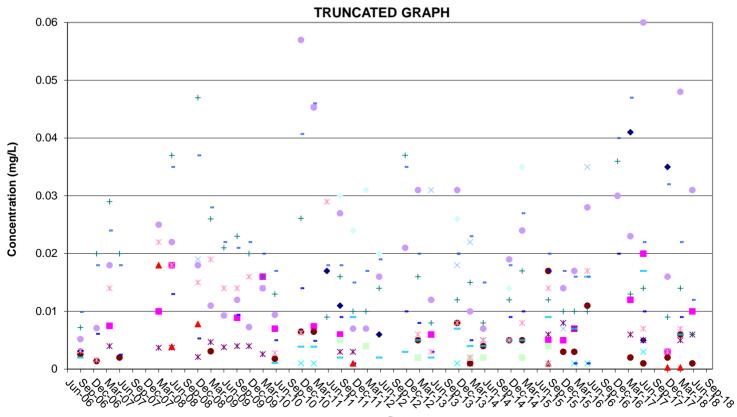
 Antimony Arsenic Barium × Beryllium Selenium Silver AThallium ×Tin × Vanadium Zinc + Mercury



Detected Appendix A Metals in OW-14 Tiverton Landfill

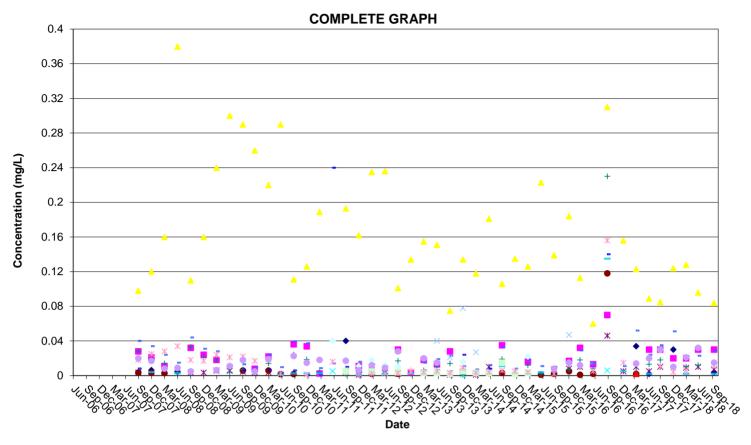


◆Antimony ■Arsenic ▲Barium ×Beryllium ×Cadmium ●Chromium +Cobalt •Copper =Lead •Nickel Selenium Silver ▲Thallium ×Tin ×Vanadium ●Zinc +Mercury

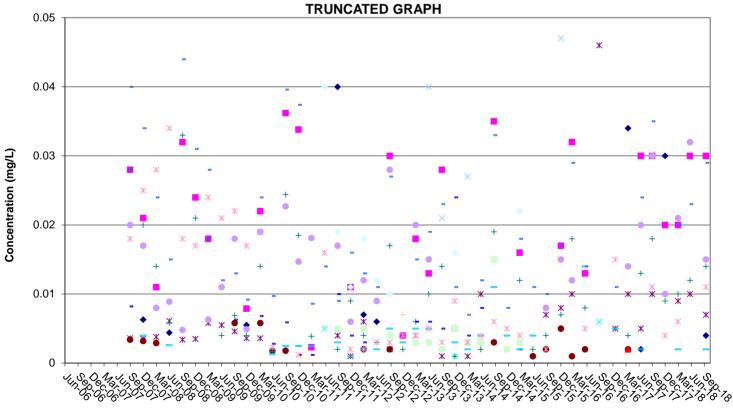


Date

Detected Appendix A Metals in OW-15 Tiverton Landfill

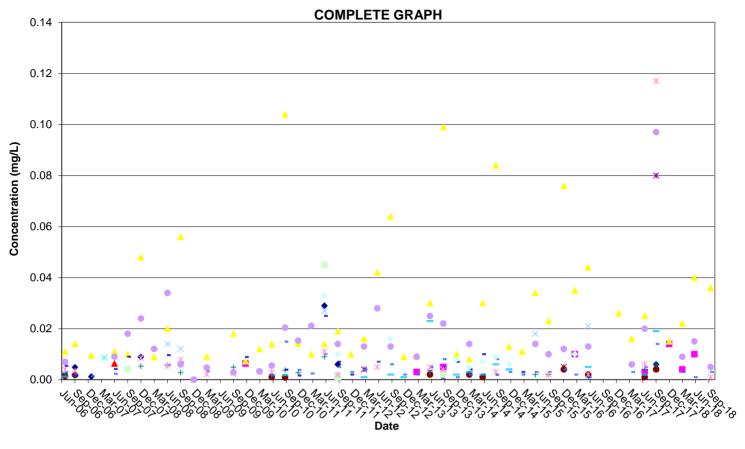


 Antimony Arsenic Barium Rervilium *Cadmium •Chromium +Cobalt •Copper -Lead •Nickel Selenium Silver Thallium ×Tin × Vanadium Zinc + Mercurv

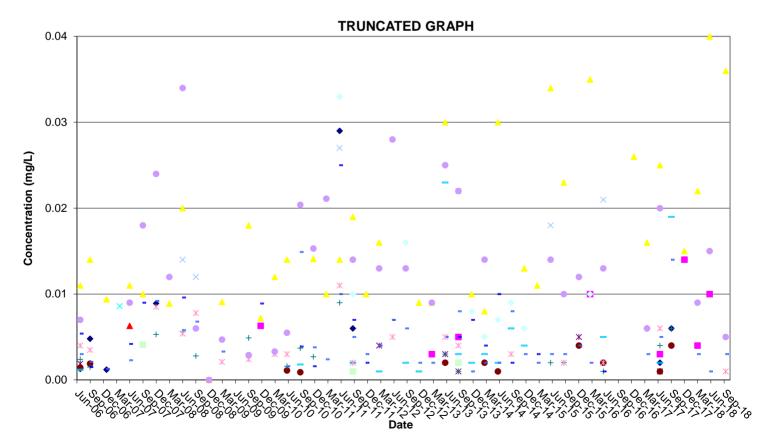


Date

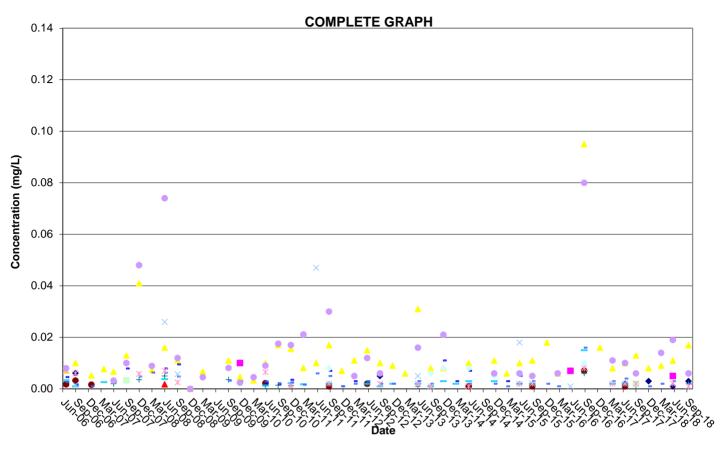
Detected Appendix A Metals at Surface Water Sampling Location SW-1 Tiverton Landfill



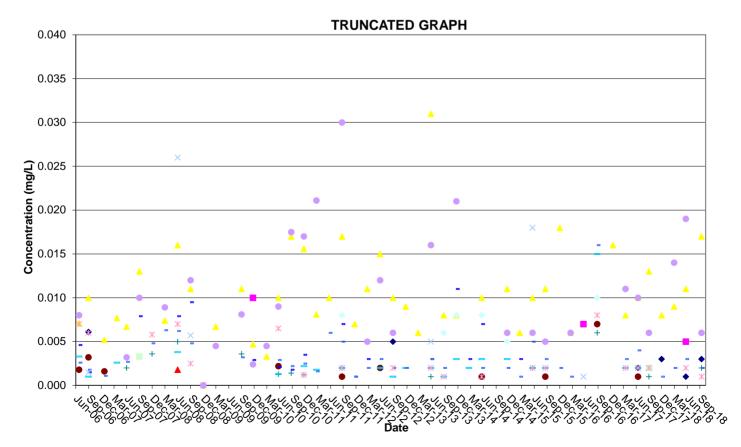
◆Antimony ■Arsenic ▲Barium ×Beryllium ×Cadmium ●Chromium +Cobalt •Copper =Lead •Nickel Selenium =Silver ▲Thallium ×Tin ≭Vanadium ●Zinc +Mercury



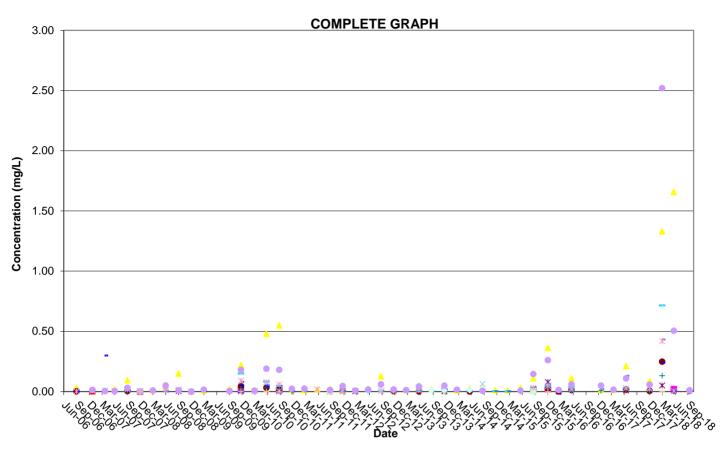




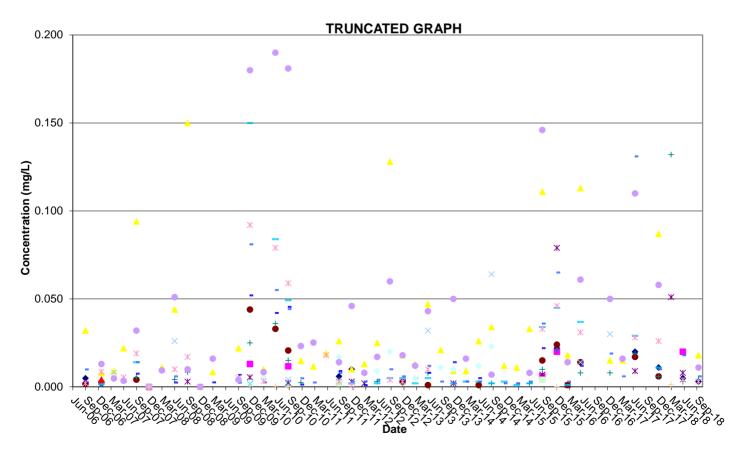
♦Antimony ■Arsenic 🔺 Barium × Beryllium × Cadmium ● Chromium + Cobalt = Copper — Lead = Nickel = Selenium = Silver ▲ Thallium × Tin × Vanadium = Zinc + Mercury



Detected Appendix A Metals at Surface Water Sampling Location SW-3 Tiverton Landfill



◆Antimony ■Arsenic ▲Barium ×Beryllium ×Cadmium ●Chromium +Cobalt •Copper =Lead •Nickel Selenium Silver ▲Thallium ×Tin ×Vanadium ●Zinc +Mercury



<u>ATTACHMENT NO. 4</u> TOLERANCE INTERVAL STATISTICAL EVALUATION

TABLE 3 SUMMARY OF GROUNDWATER MONITORING RESULTS - TOLERANCE INTERVAL COMPARISON SEPT 2018 - SAMPLE ROUND

Concentration (units as specified for Threshold Value)

		OW-9			Background Well			Compliance wells				
	Parameter		ce Limit * /G+K*S		shold Ilue	OW-9	OW-12	OW-13	OW-14	OW-15		
METALS	Antimony	0.0290	mg/L	0.006	mg/L1	NT	ND	0.002	NT	0.004		
	Arsenic	0.0030	mg/L		mg/L ¹	NT	ND	0.010	NT	0.030		
	Barium	0.0491	mg/L		mg/L1	NT	0.023	0.089	NT	0.084		
	Beryllium	0.0005	mg/L	0.004	mg/L ¹	NT	ND	ND	NT	ND		
	Cadmium	0.3650	mg/L		mg/L ¹	NT	ND	0.003	NT	0.007		
	Chromium	0.0364	mg/L		mg/L ¹	NT	0.002	0.002	NT	ND		
	Cobalt	0.0020	mg/L		mg/L ⁵	NT	0.002	0.010	NT	0.014		
	Copper	0.0600	mg/L		mg/L ¹	NT	ND	ND	NT	ND		
	Lead	0.2245	mg/L		mg/L1 mg/L1	NT	ND	ND	NT	0.0020		
	Mercury Nickel	0.0001 0.0337	mg/L mg/L		mg/L ²	NT NT	ND 0.025	ND 0.012	NT NT	ND 0.029		
	Selenium	0.0337	mg/L		mg/L ¹	NT	0.025 ND	ND	NT	0.029 ND		
	Silver	0.0005	mg/L		mg/L ^{2,3}	NT	ND	ND	NT	ND		
	Thallium	0.0005	mg/L		mg/L ¹	NT	ND	ND	NT	ND		
	Tin	0.0025	mg/L		mg/L⁵	NT	ND	ND	NT	ND		
	Vanadium	0.0020	mg/L		mg/L°	NT	0.001	0.004	NT	0.0110		
	Zinc	13.7203	mg/L		mg/L ^{2,3}	NT	0.026	0.01	NT	0.015		
VOC'S	Acetone				μg/L°							
	Acrylonitrile				μg/L°							
	Benzene				μg/L' μg/L [∠]							
	Bromochloromethane Bromodichloromethane (THM)				μg/L' μg/L'							
	Bromoform				μg/L'							
	Carbon disulfide				μg/L°							
	Carbon tetrachloride				μg/L'							
	Chlorobenzene			100	μg/L'							
	Chloroethane				μg/L°							
	Chloroform				μg/L'							
	Chlorodibromomethane (THM)				μg/L'							
	1,2-Dibromo-3-chloropropane (DBCP)				μg/L'							
	1,2-Dibromoethane (EDB)				μg/L' μg/L'							
	1,2-Dichlorobenzene 1,4-Dichlorobenzene				μg/L'							
	trans-1,4-Dichloro-2-butene			75	μg/L							
	1,1 -Dichloroethane			5	μg/L							
	1,2-Dichloroethane				μg/L'							
	1,1-Dichloroethylene			7	μg/L'							
	cis-1,2-Dichloroethene				μg/L'							
	trans-1,2-Dichloroethene				μg/L'							
	1,2-Dichloropropane			5	μg/L'							
	cis-1,3-Dichloropropene				μg/L μg/L							
	trans-1,3-Dichloropropene Ethylbenzene			700	μg/L'							
	Methyl butyl ketone(2-Hexanone)				μg/L°							
	Bromomethane				μg/L ²							
	Chloromethane				μg/L ²							
	Dibromomethane			61	μg/L°							
	Methylene chloride				μg/L'							
	Methyl ethyl ketone(2-Butanone)			4000	µg/L²							
	Methyl iodide				μg/L							
	4-Methyl-2-pentanone			100	μg/L							
	Styrene				μg/L'							
	1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane				μg/L ² μg/L ²							
	Tetrachloroethylene(PCE)				μg/L'							
	Toluene				μg/L'							
	1,1,1-Trichloroethane				μg/L'							
	1,1,2-Trichloroethane				μg/L'							
	Trichloroethylene(TCE)				μg/L'							
	Trichloroflouromethane				μ g/L ²							
	1,2,3-Trichloropropane				μg/L ²							
	Vinyl acetate				μg/L°							
	Vinyl chloride				μg/L'							
	Xylenes Methyl tert-butyl ether (MTBE)			10000 20 - 40								
1 Threshold	Methyl tert-butyl ether (MIBE) value given is the Maximum Contaminant Level	(MCL) as re	rovided in the U			king Water Standards and Hor	lth Advisories					

1. Threshold value given is the Maximum Contaminant Level (MCL) as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories

2. Threshold value given is the lifetime health advisory as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories

3. Threshold value given is the Secondary Drinking Water Regulation (SDWR) as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories

4. Threshold value given is the Drinking Water Advisory as provided in the USEPA 2004 Edition of the Drinking Water Standards and Health Advisories

5. Threshold value given is the Preliminary Remedial Goal (PRG) for tap water, as provided in the October 2002 USEPA Region 9 PRGs Table 2002 Update

6. Constituent concentration was reported above its laboratory method detection limit, but lower than its laboratory reporting limit and historical reporting limit. However, the reporting limit this round was significantly higher than previous reporting limits. Therefore, to be consistent with historical data, only those constituents with

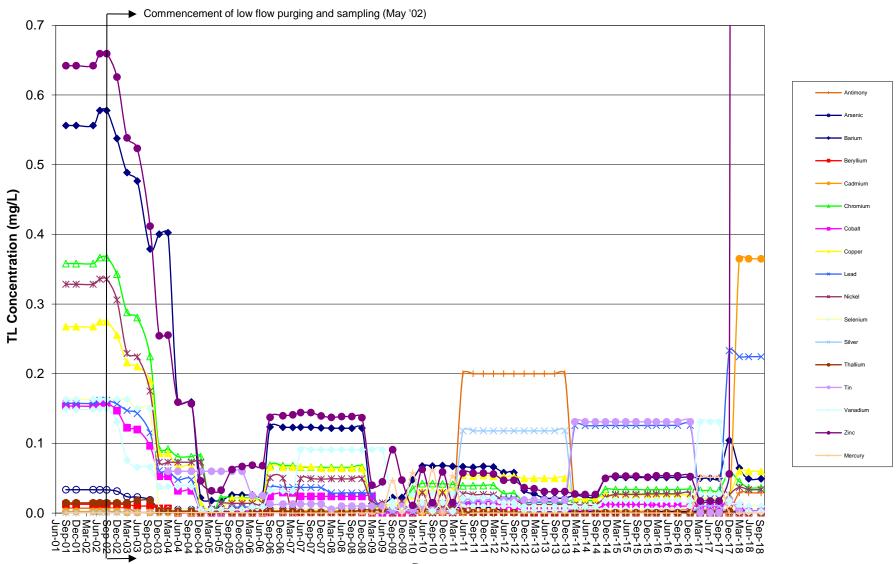
concentrations lower than historical reporting limits were reported as non-detect.

No threshold value has been provided for parameters not identified in the sources listed above

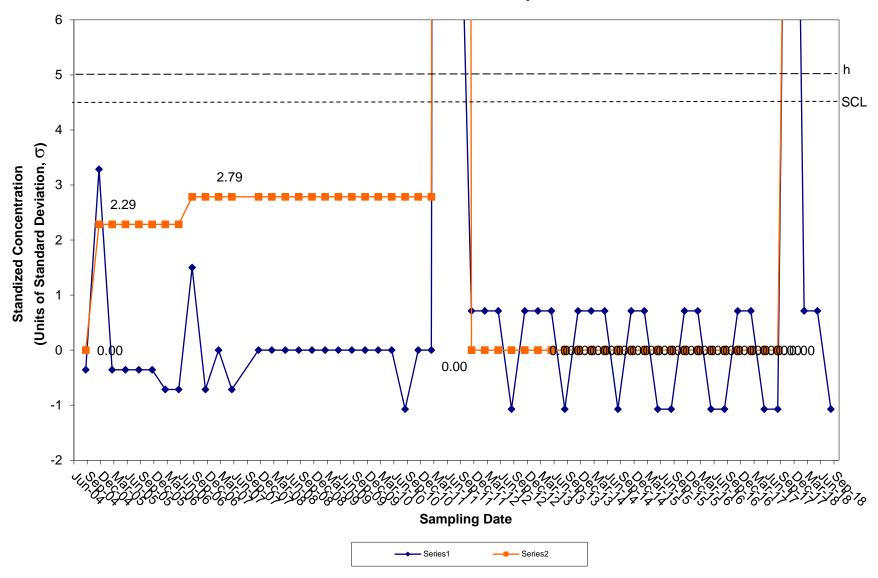
" = Exceedance of TL ND = Not Detected

* Tolerance Limit (TL) constructed from background (upgradient) well data from OW-9.

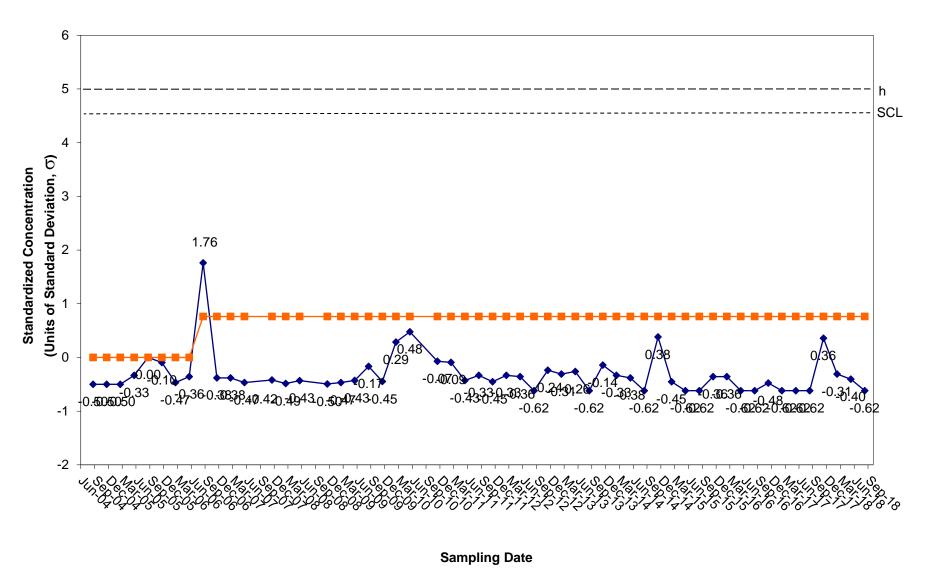
Historical Tolerance Limit Concentrations from Background Well Tiverton Landfill Compliance Sampling



<u>ATTACHMENT NO. 5</u> CUSUM METHOD STATISTICAL EVALUATION

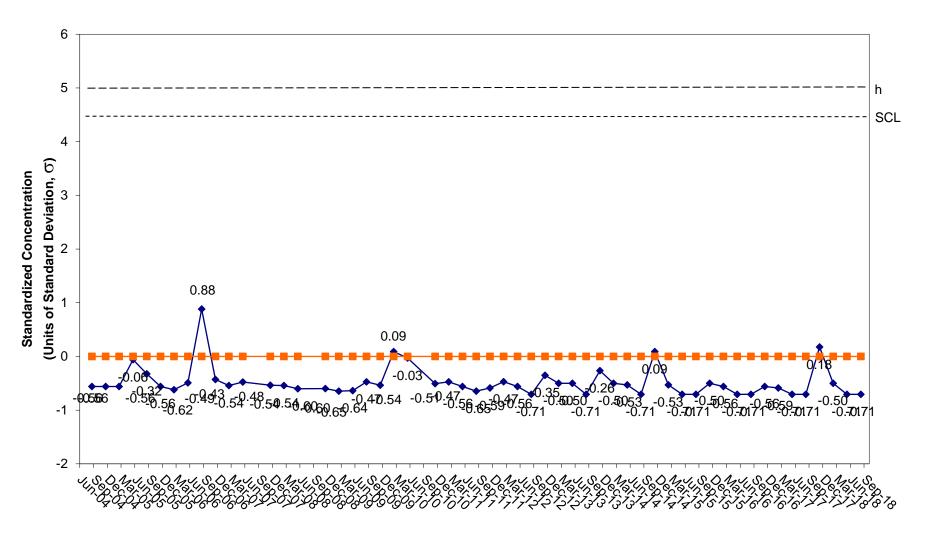


CUSUM Control Chart for Antimony Tiverton Landfill Groundwater Complaince Well OW-9



CUSUM Control Chart for Barium Tiverton Landfill Groundwater Background Well OW-9

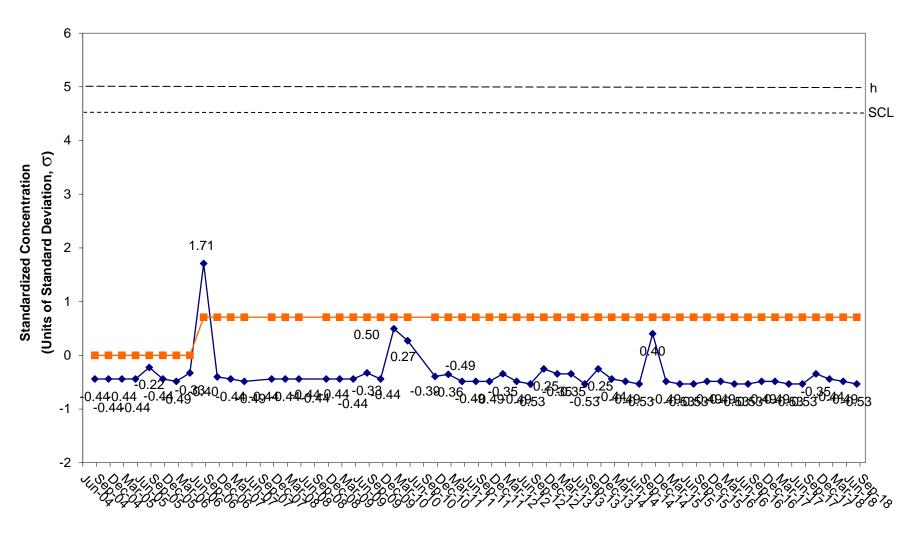
Series1 Series2



CUSUM Control Chart for Chromium Tiverton Landfill Groundwater Background Well OW-9

Sampling Date

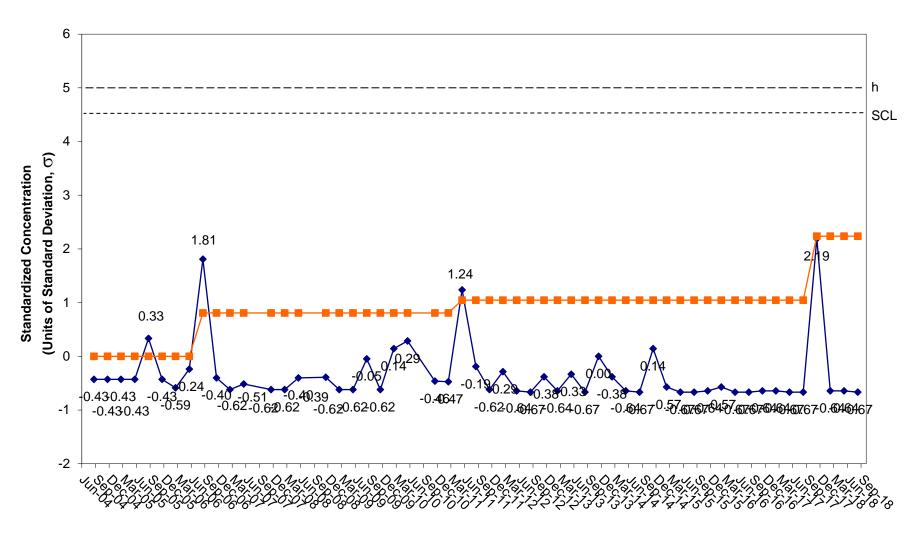
Series1 Series2



CUSUM Control Chart for Cobalt Tiverton Landfill Groundwater Background Well OW-9

Sampling Date

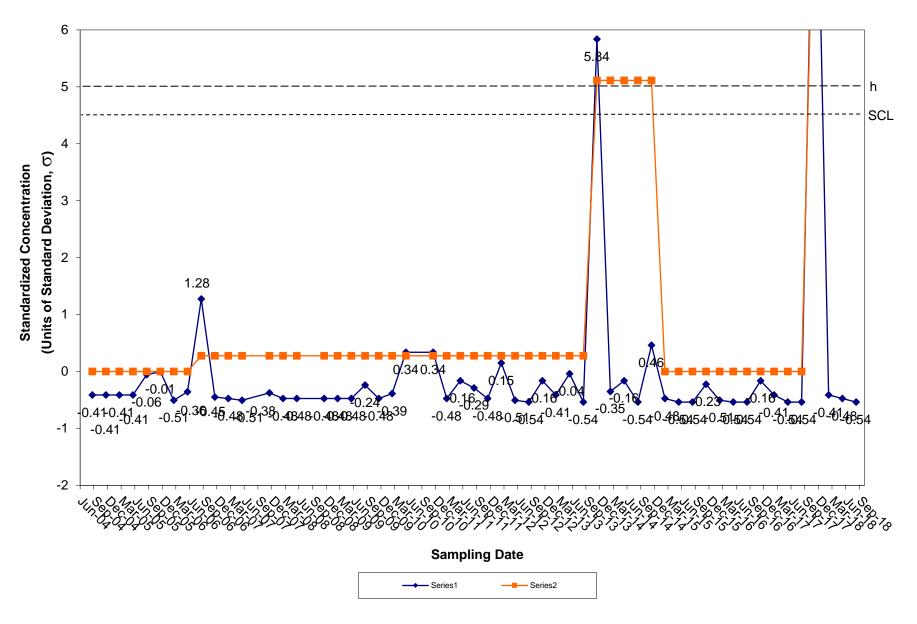
---- Series1 ------ Series2



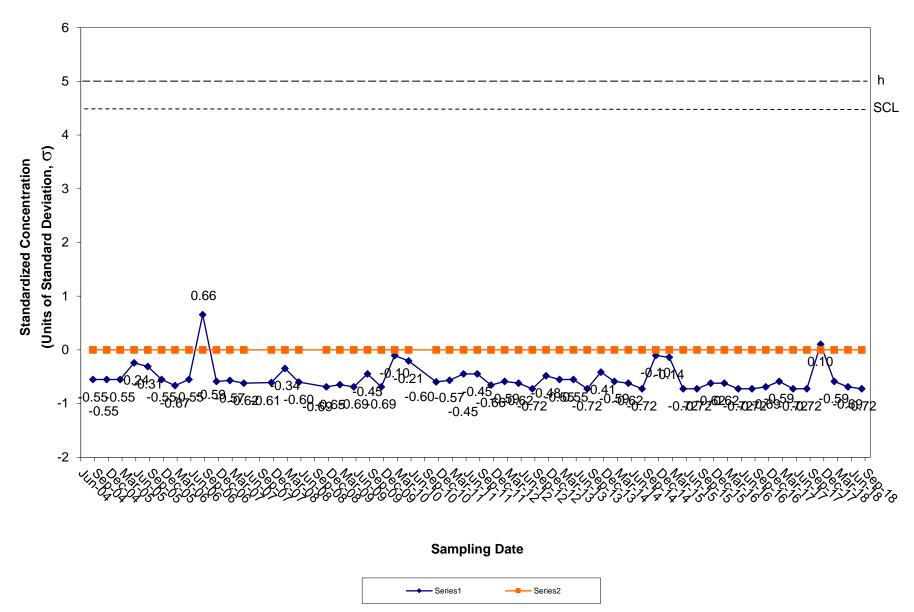
CUSUM Control Chart for Copper Tiverton Landfill Groundwater Background Well OW-9

Sampling Date

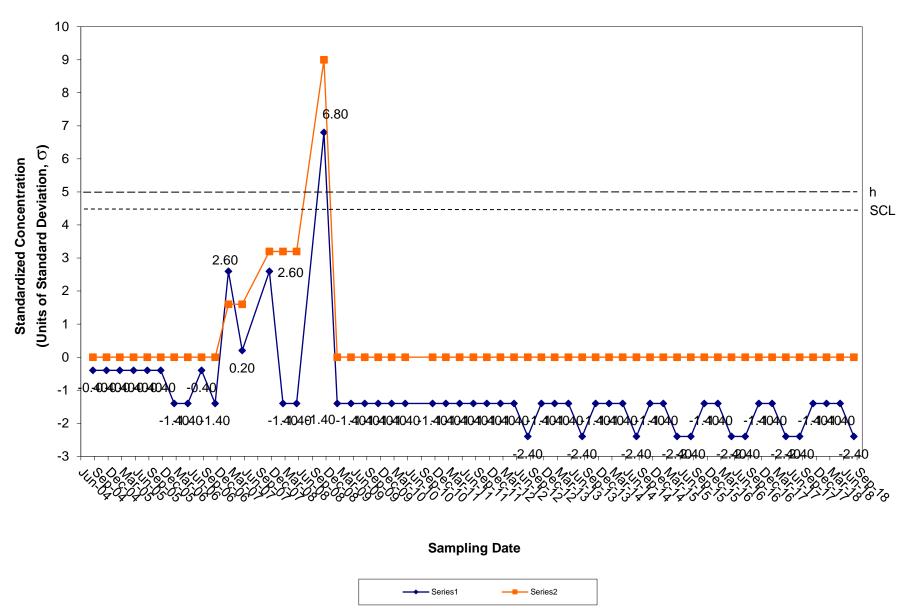
Series1 Series2



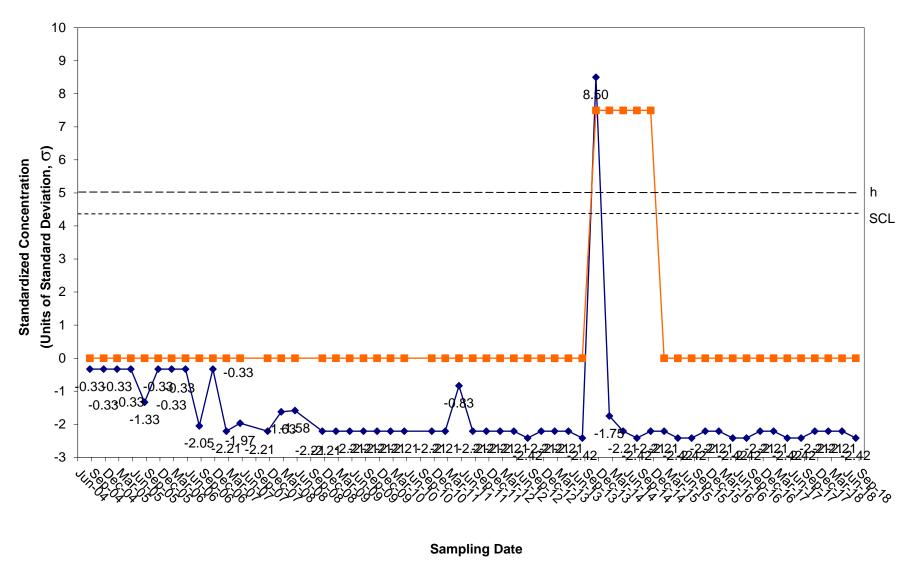
CUSUM Control Chart for Lead Tiverton Landfill Groundwater Background Well OW-9



CUSUM Control Chart for Nickel Tiverton Landfill Groundwater Background Well OW-9

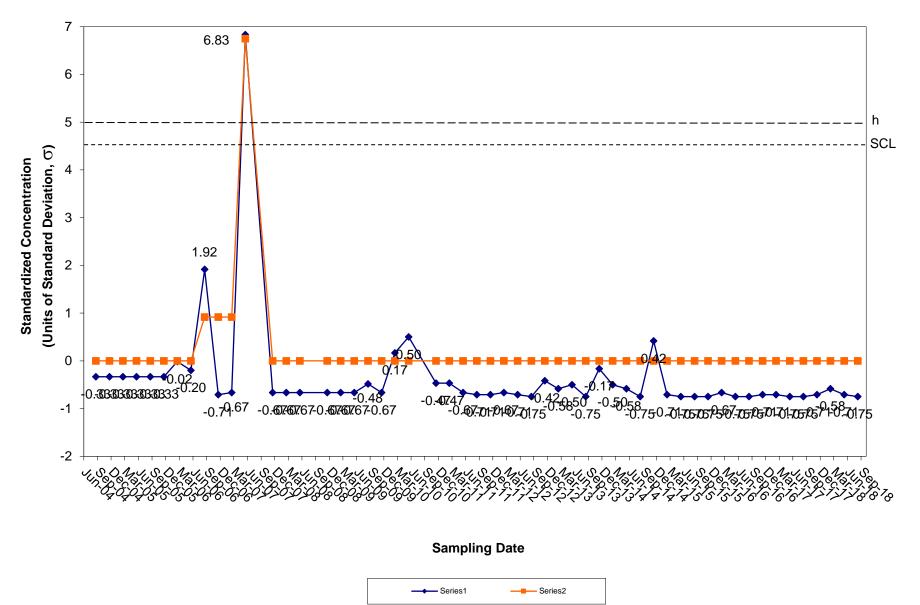


CUSUM Control Chart for Thallium Tiverton Landfill Groundwater Background Well OW-9

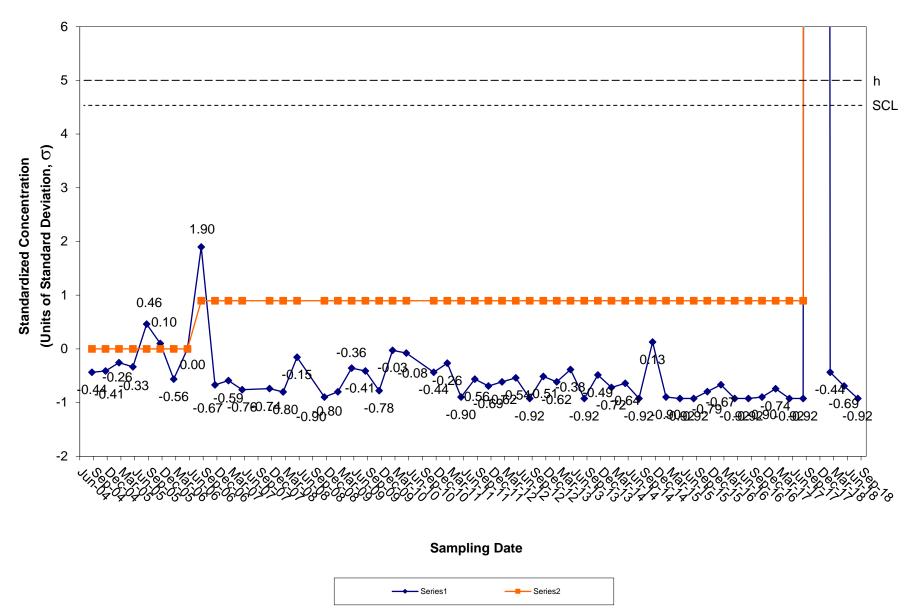


CUSUM Control Chart for Tin Tiverton Landfill Groundwater Background Well OW-9

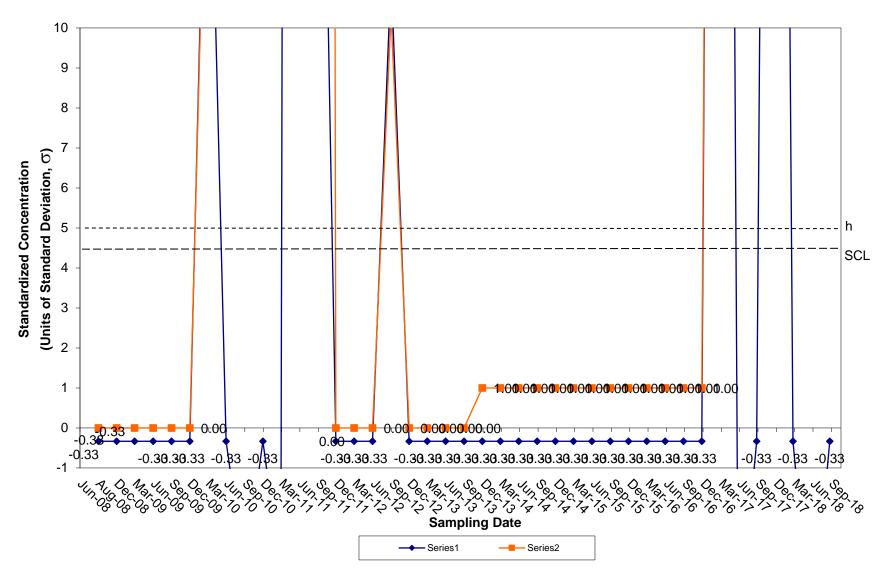




CUSUM Control Chart for Vanadium Tiverton Landfill Groundwater Background Well OW-9

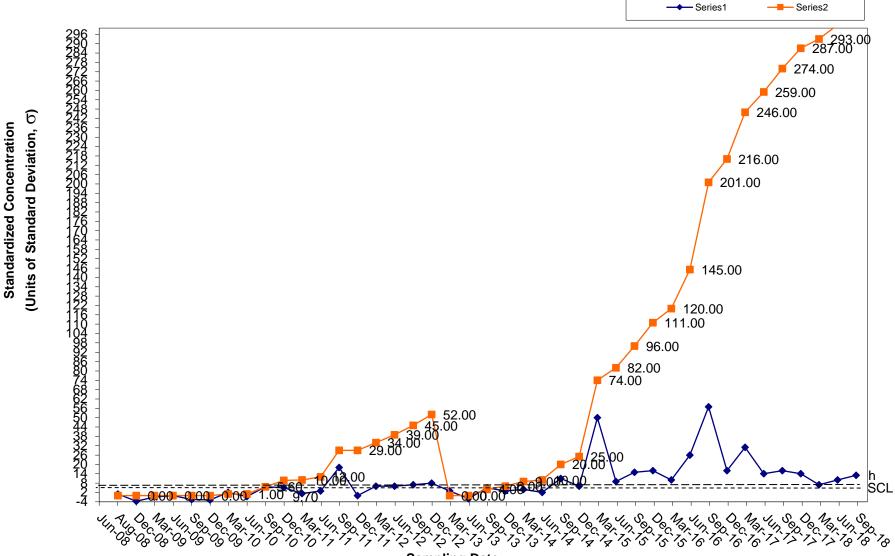


CUSUM Control Chart for Zinc Tiverton Landfill Groundwater Background Well OW-9

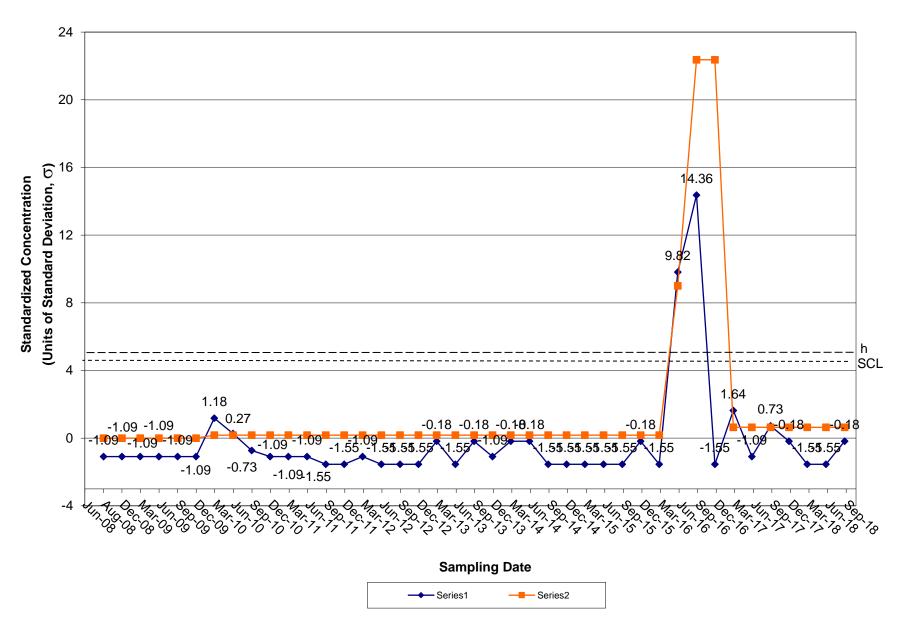


CUSUM Control Chart for Antimony Tiverton Landfill Groundwater Compliance Well OW-12

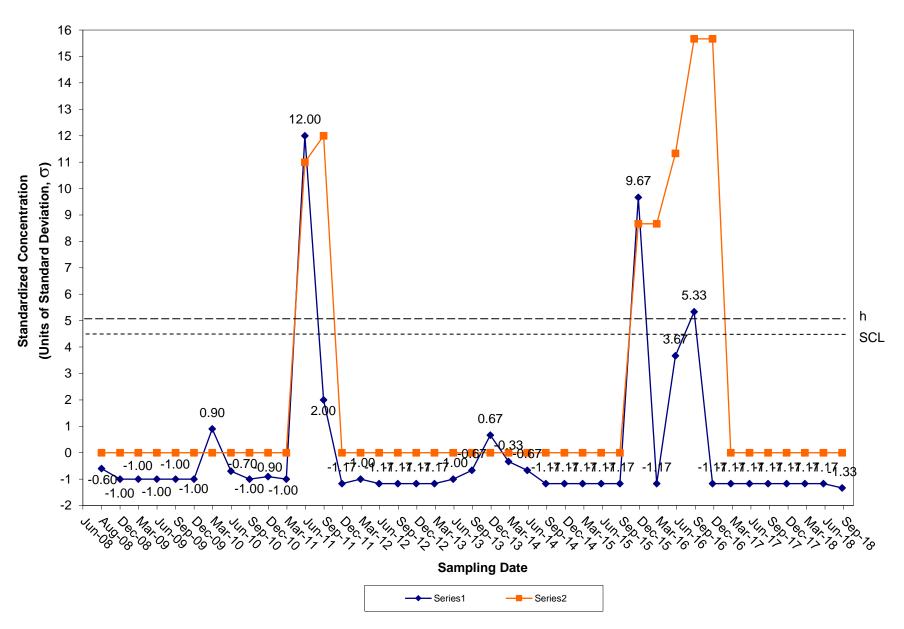
CUSUM Control Chart for Barium Tiverton Landfill Groundwater Compliance Well OW-12



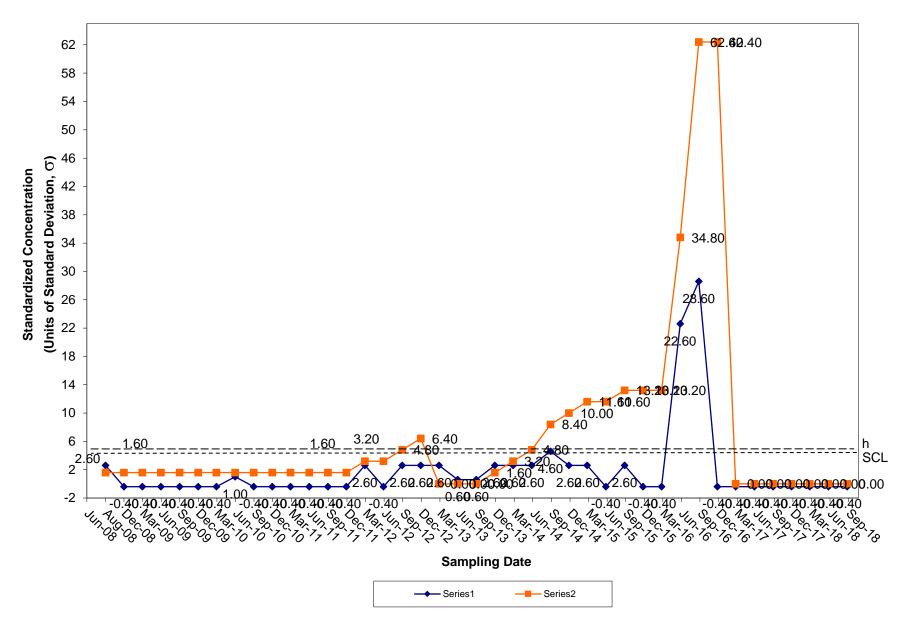
Sampling Date



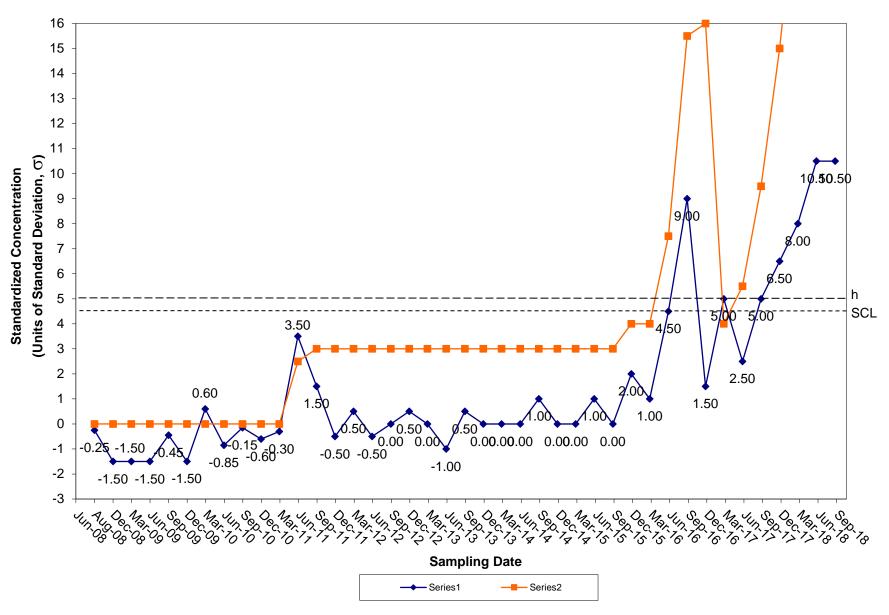
CUSUM Control Chart for Chromium Tiverton Landfill Groundwater Compliance Well OW-12



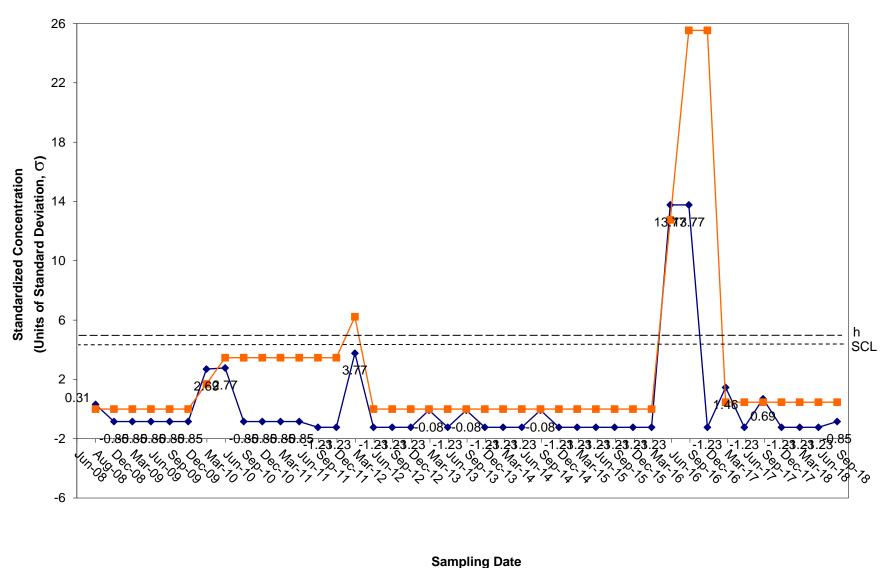
CUSUM Control Chart for Copper Tiverton Landfill Groundwater Compliance Well OW-12



CUSUM Control Chart for Lead Tiverton Landfill Groundwater Compliance Well OW-12

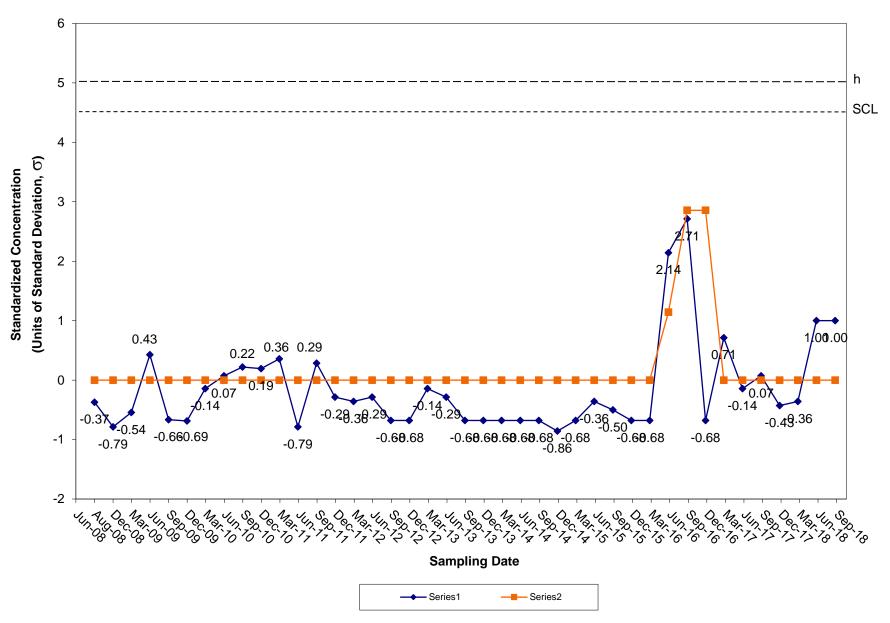


CUSUM Control Chart for Nickel Tiverton Landfill Groundwater Compliance Well OW-12

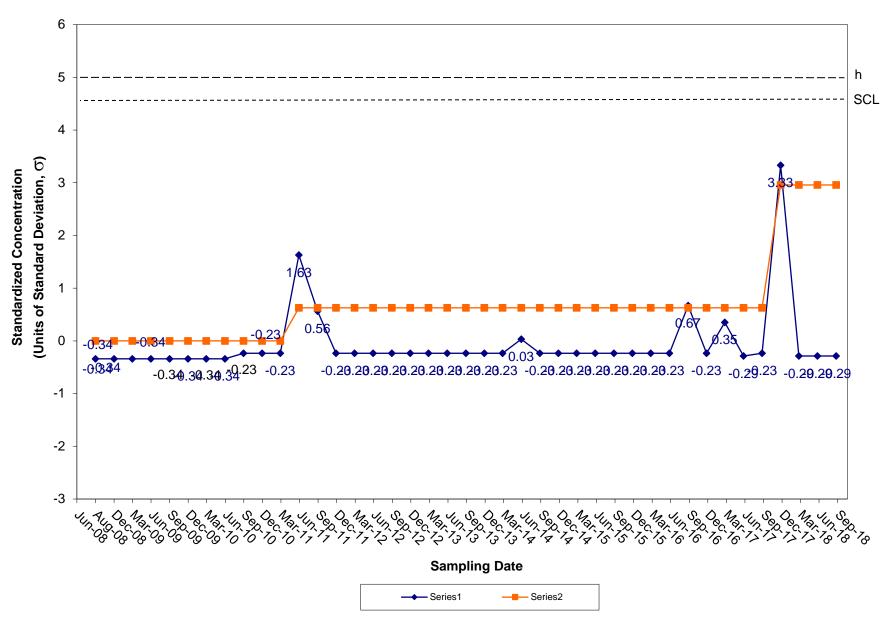


CUSUM Control Chart for Vanadium Tiverton Landfill Groundwater Compliance Well OW-12

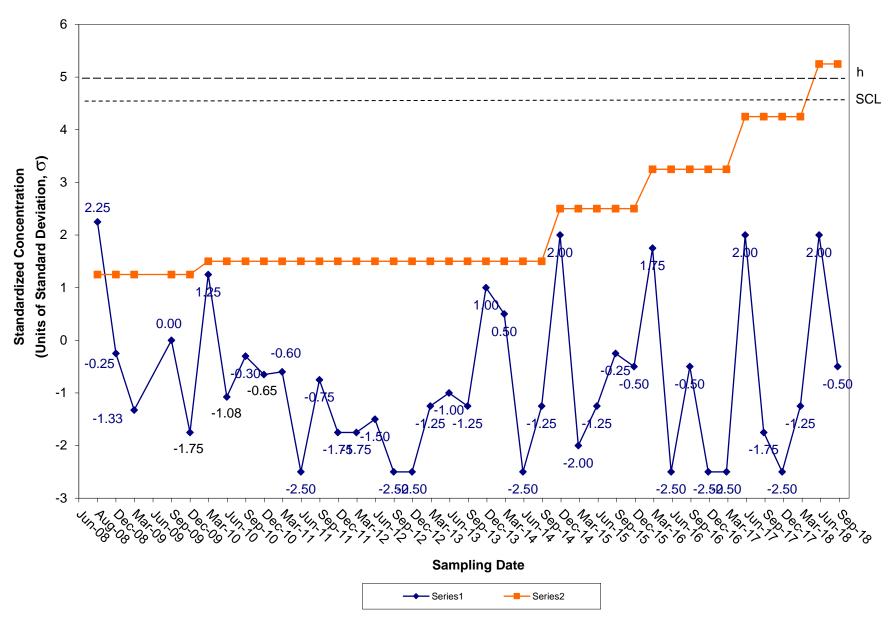




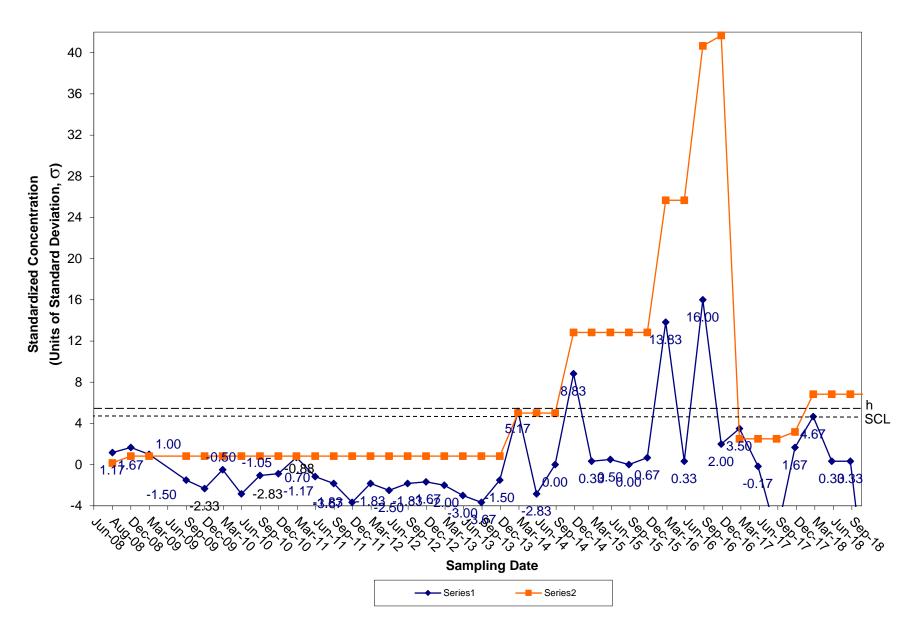
CUSUM Control Chart for Zinc Tiverton Landfill Groundwater Compliance Well OW-12



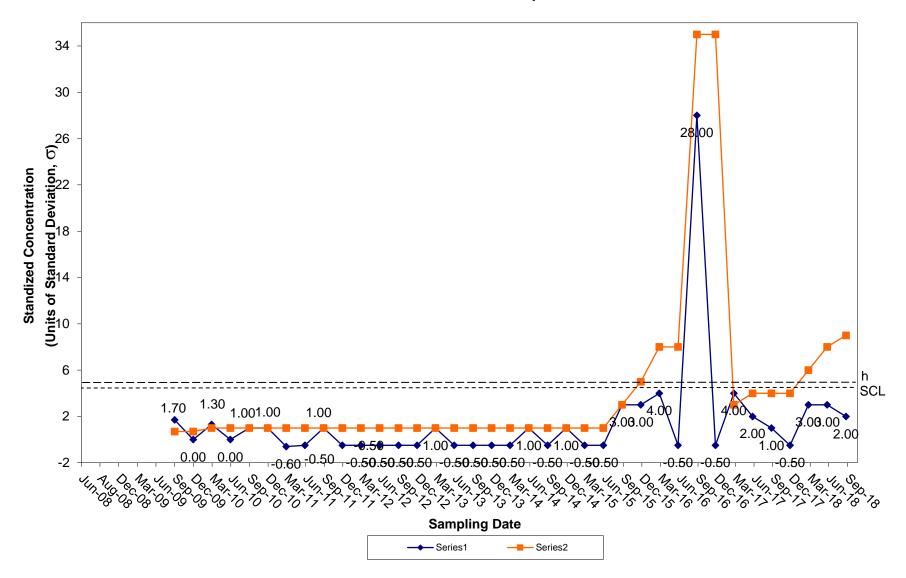
CUSUM Control Chart for Antimony Tiverton Landfill Groundwater Compliance Well OW-13



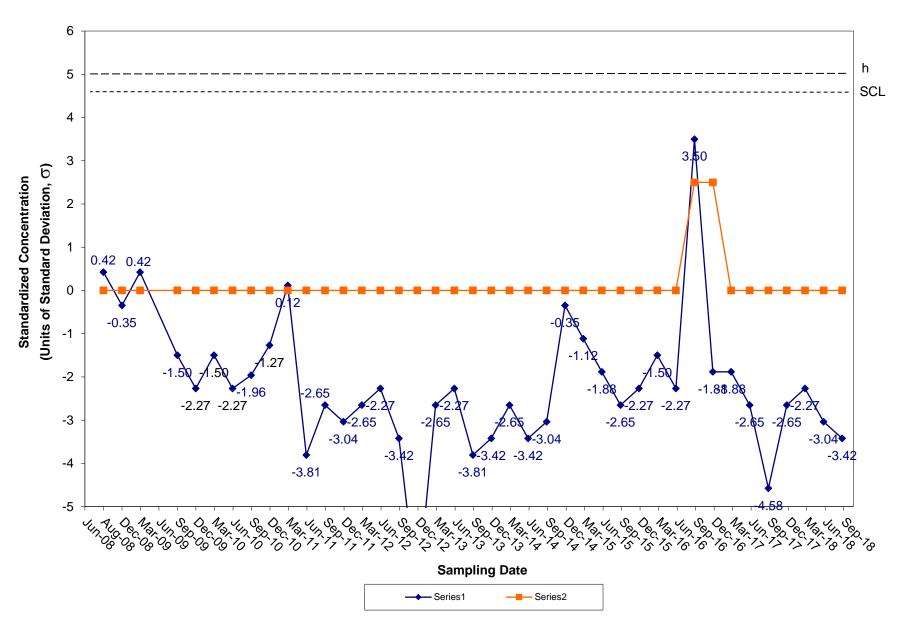
CUSUM Control Chart for Arsenic Tiverton Landfill Groundwater Compliance Well OW-13



CUSUM Control Chart for Barium Tiverton Landfill Groundwater Compliance Well OW-13

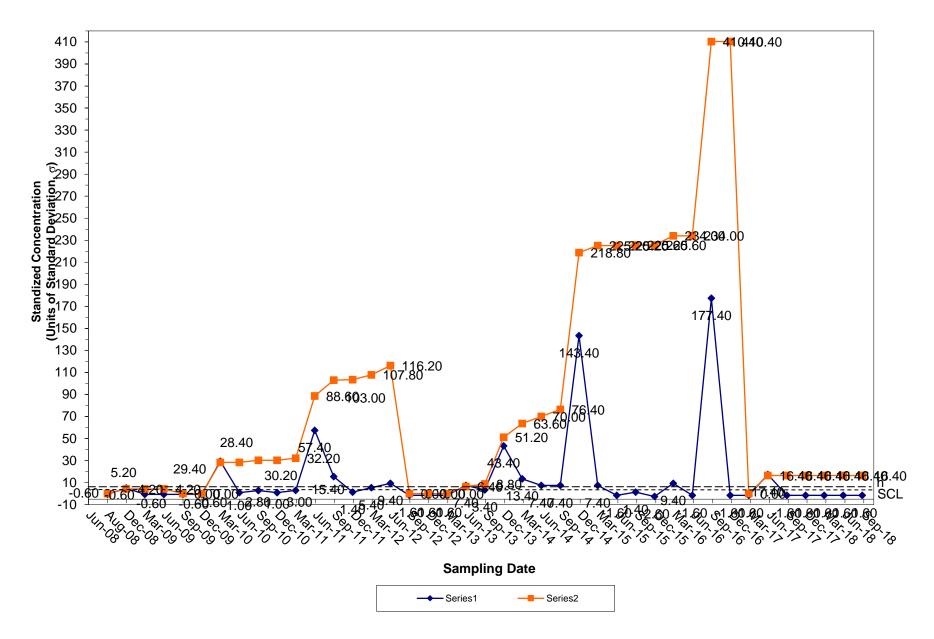


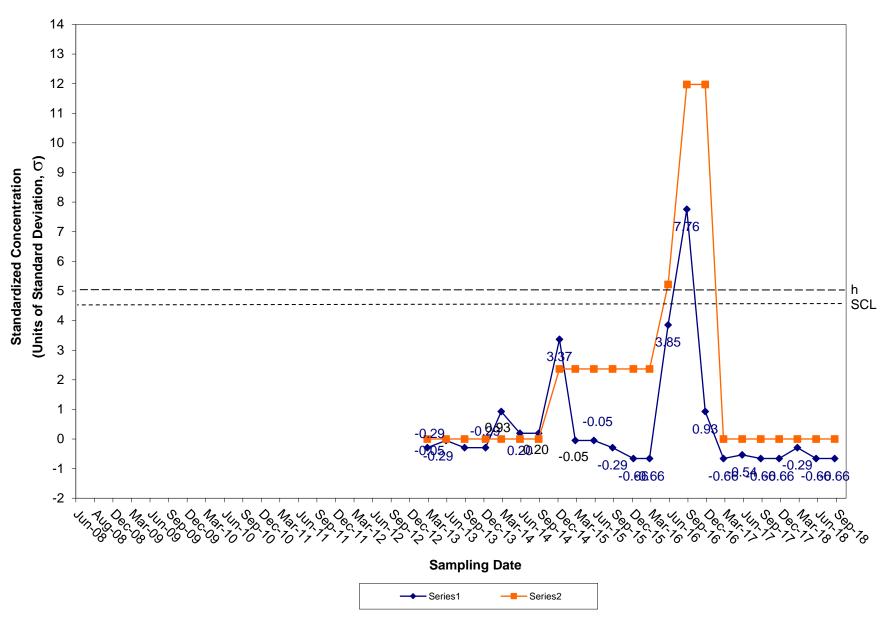
CUSUM Control Chart for Cadmium Tiverton Landfill Groundwater Complaince Well OW-13



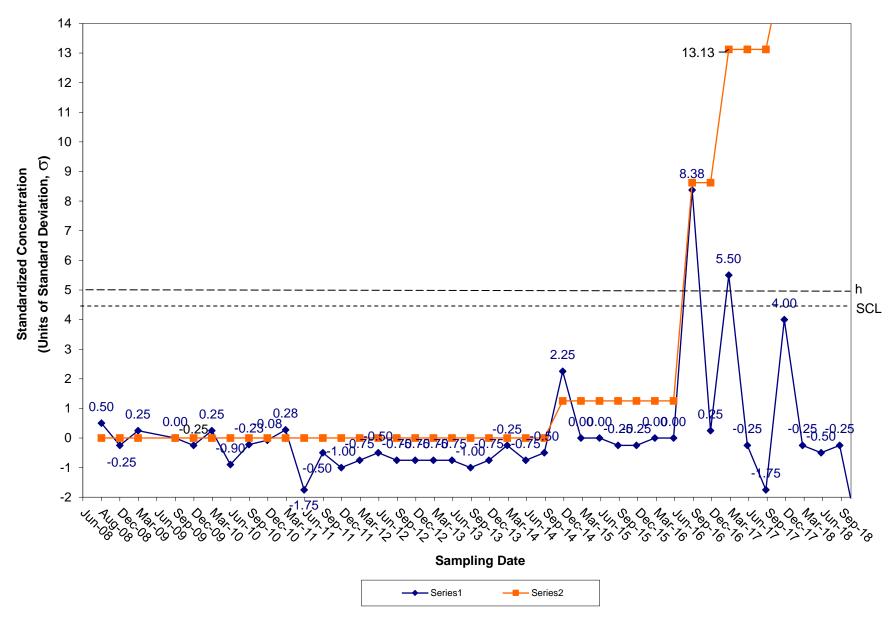
CUSUM Control Chart for Cobalt Tiverton Landfill Groundwater Compliance Well OW-13

CUSUM Control Chart for Copper Tiverton Landfill Groundwater Complaince Well OW-13

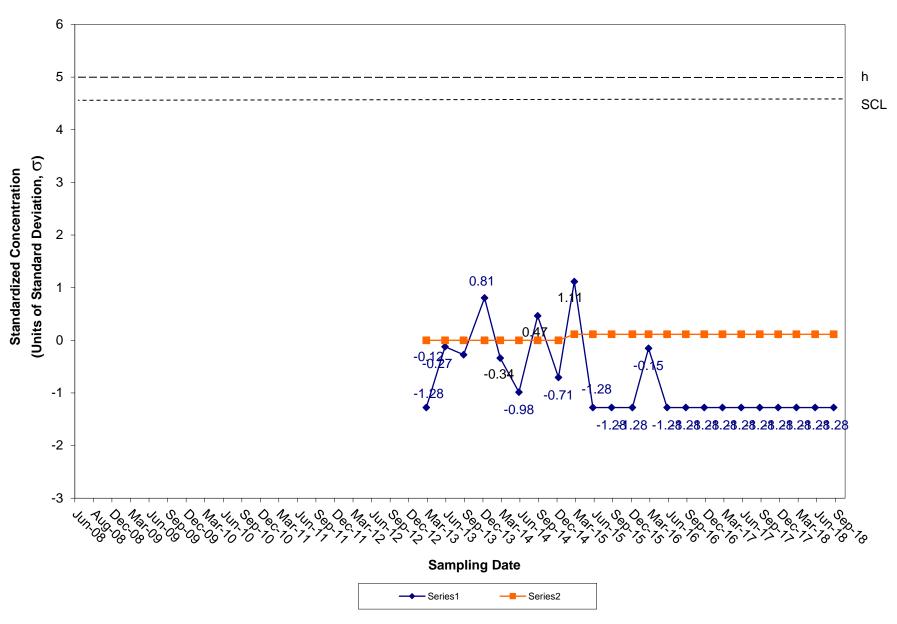




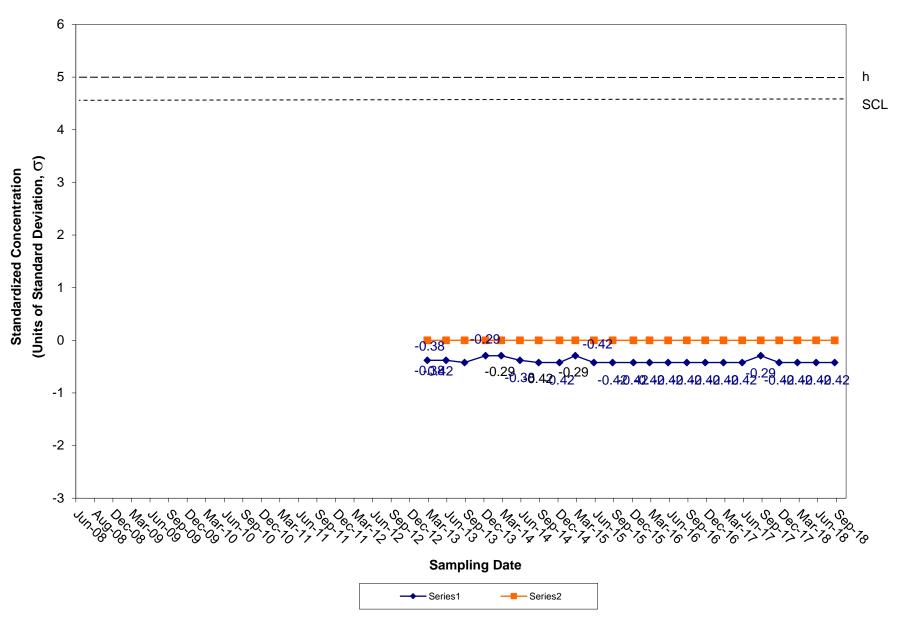
CUSUM Control Chart for Lead Tiverton Landfill Groundwater Compliance Well OW-13



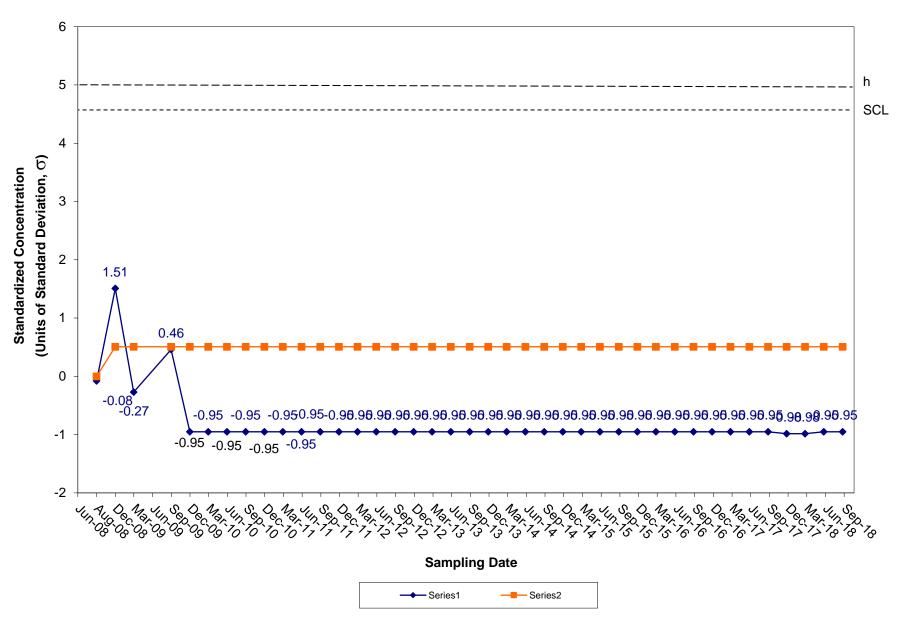
CUSUM Control Chart for Nickel Tiverton Landfill Groundwater Compliance Well OW-13



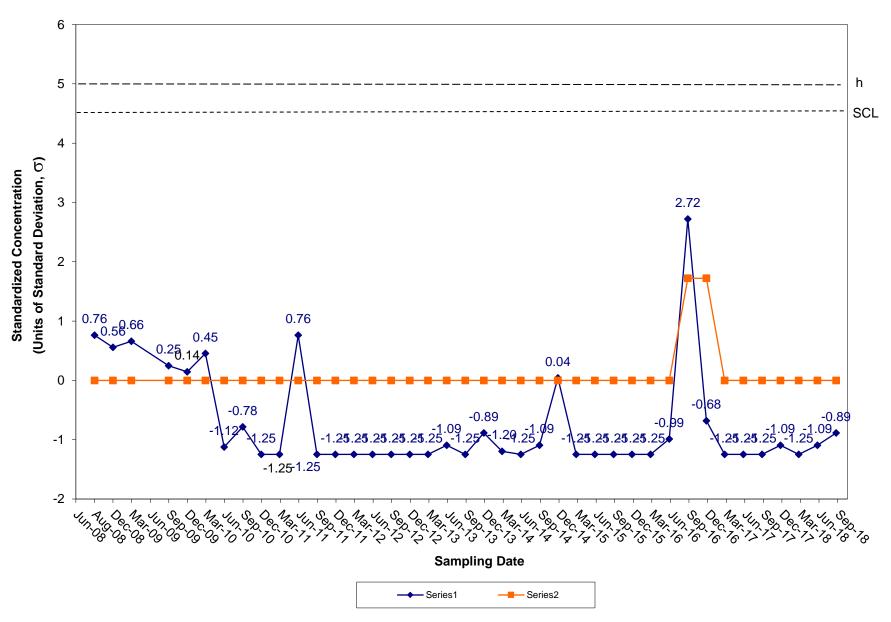
CUSUM Control Chart for Selenium Tiverton Landfill Groundwater Compliance Well OW-13



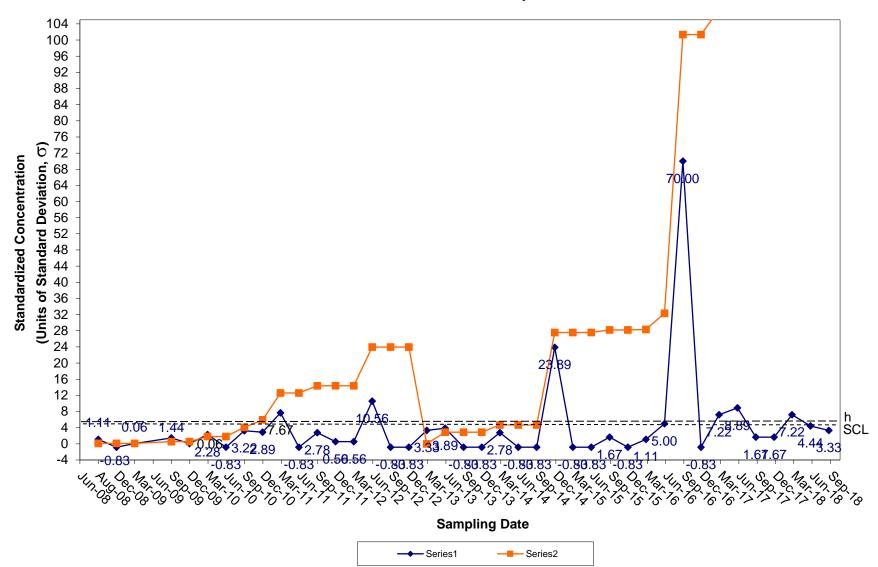
CUSUM Control Chart for Silver Tiverton Landfill Groundwater Compliance Well OW-13



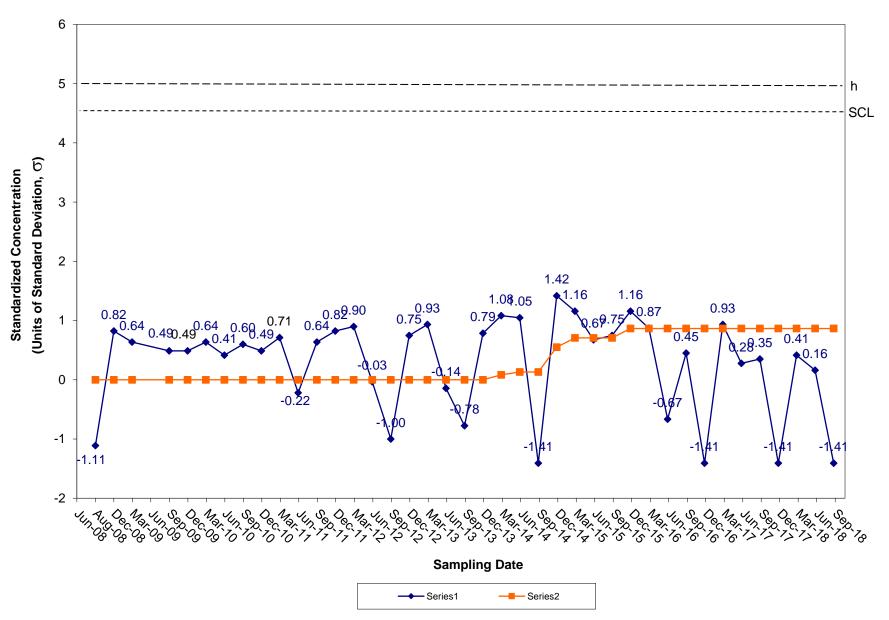
CUSUM Control Chart for Thallium Tiverton Landfill Groundwater Compliance Well OW-13



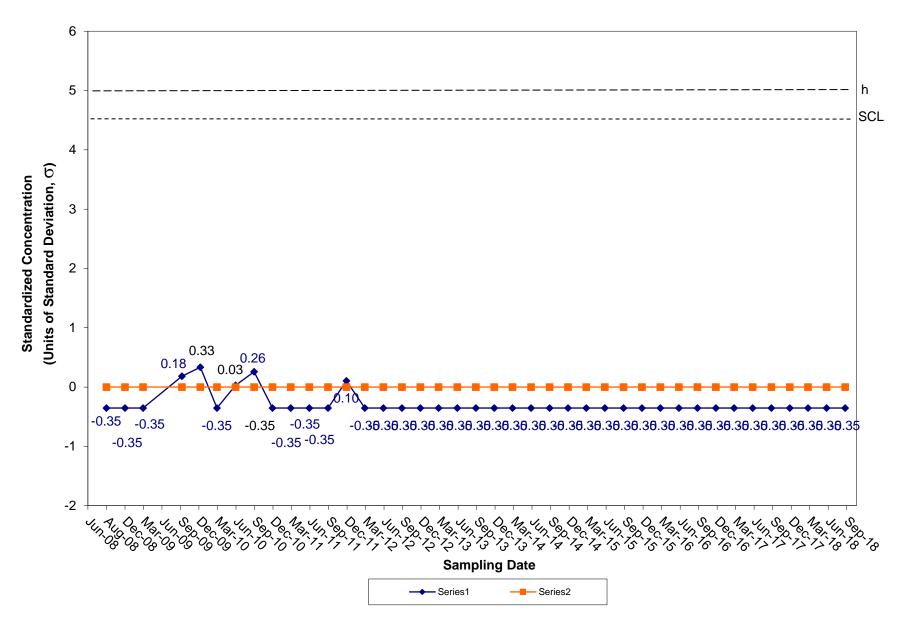
CUSUM Control Chart for Vanadium Tiverton Landfill Groundwater Compliance Well OW-13



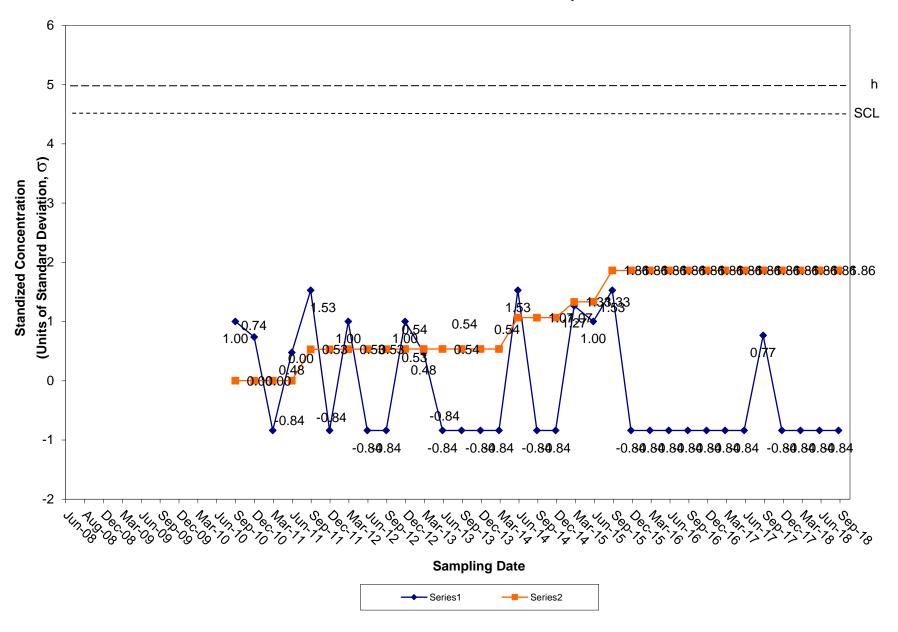
CUSUM Control Chart for Zinc Tiverton Landfill Groundwater Compliance Well OW-13



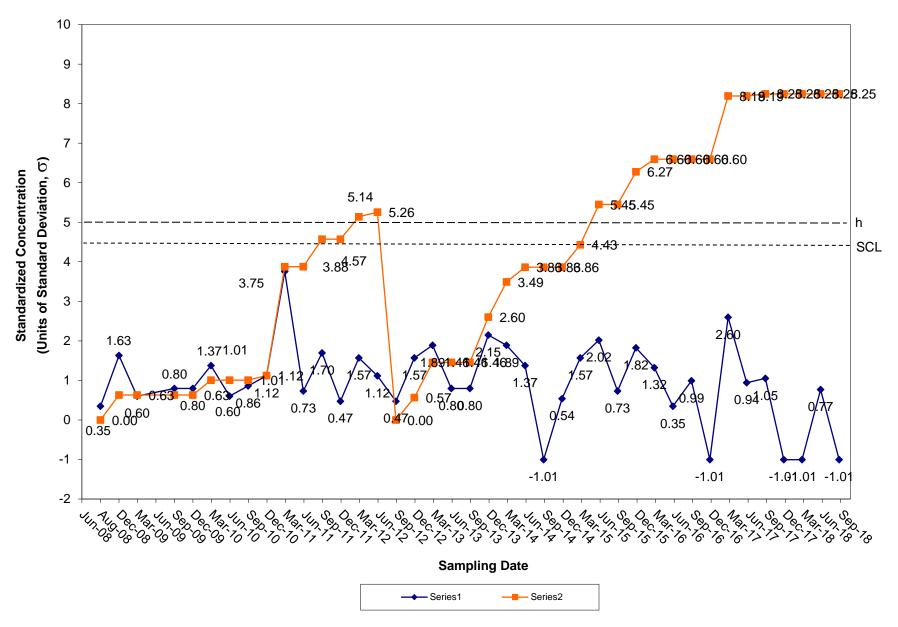
CUSUM Control Chart for Chlorobenzene Tiverton Landfill Groundwater Compliance Well OW-13



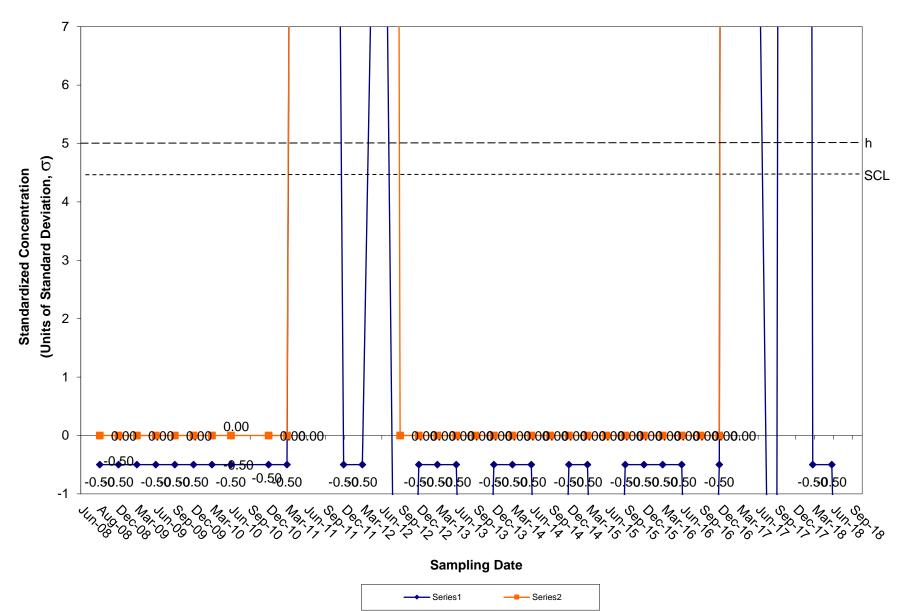
CUSUM Control Chart for Chloroethane Tiverton Landfill Groundwater Compliance Well OW-13



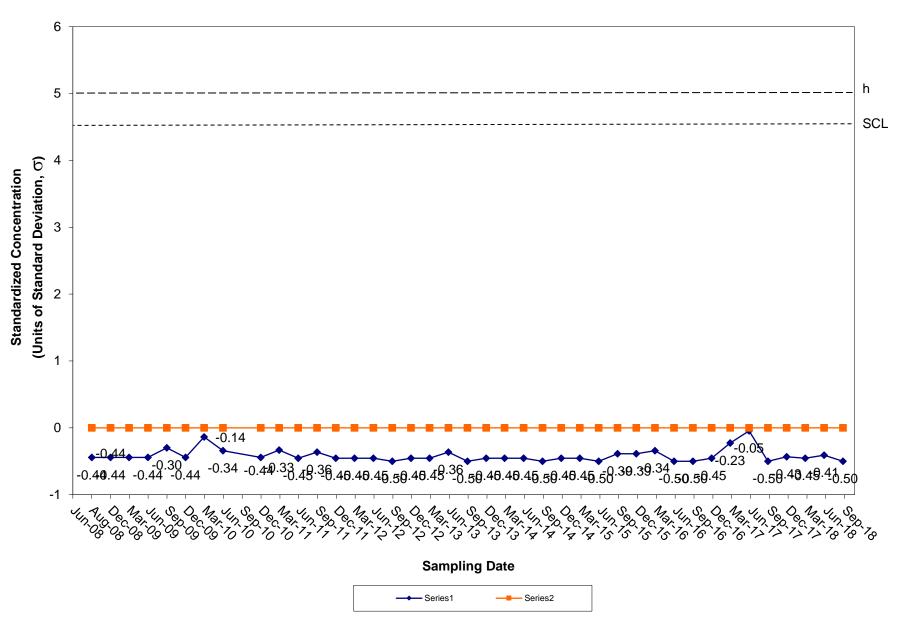
CUSUM Control Chart for 1,4-Dichlorobenzene - Adjusted Baseline Tiverton Landfill Groundwater Complaince Well OW-13



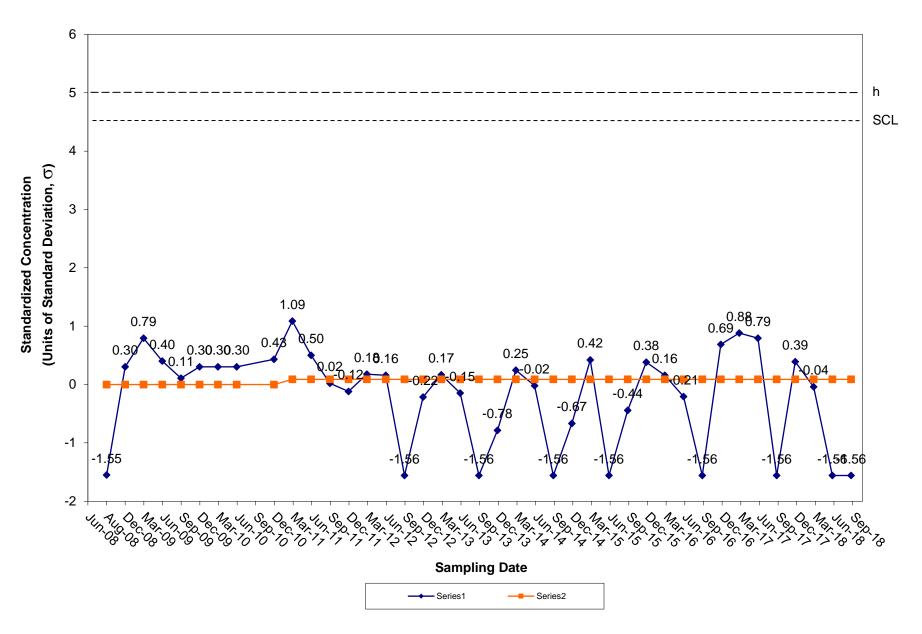
CUSUM Control Chart for MTBE Tiverton Landfill Groundwater Compliance Well OW-13



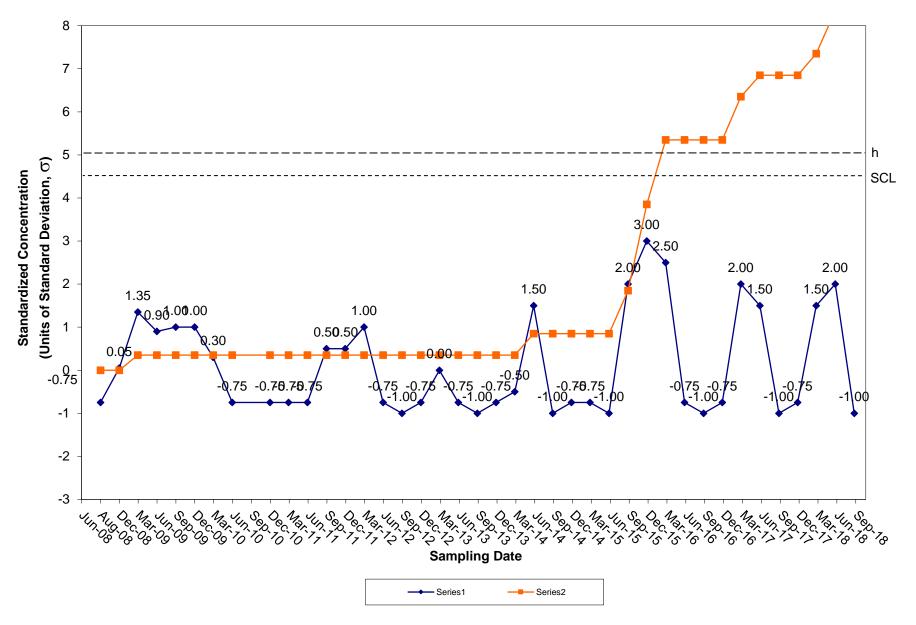
CUSUM Control Chart for Antimony Tiverton Landfill Groundwater Compliance Well OW-14



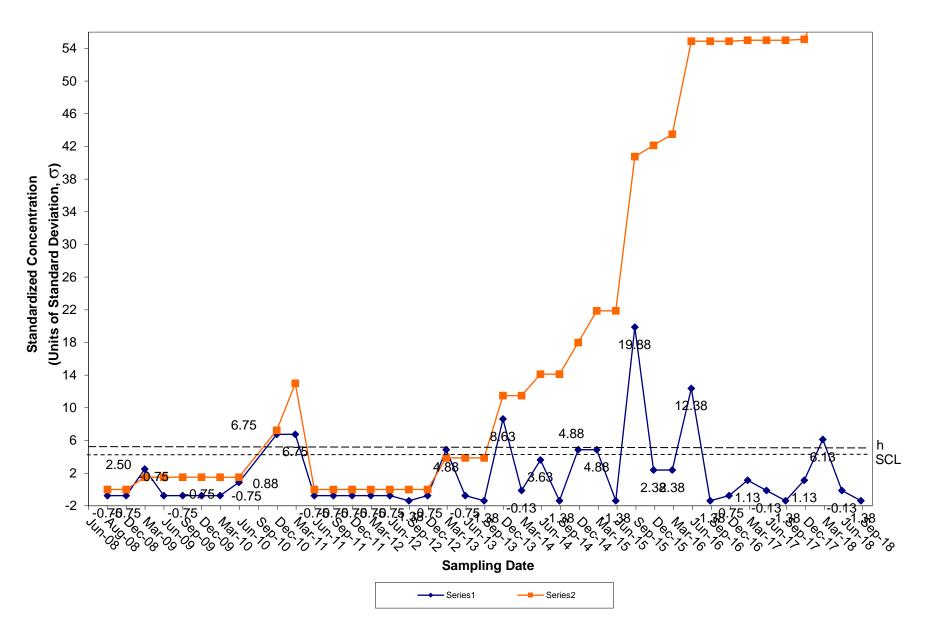
CUSUM Control Chart for Arsenic Tiverton Landfill Groundwater Compliance Well OW-14



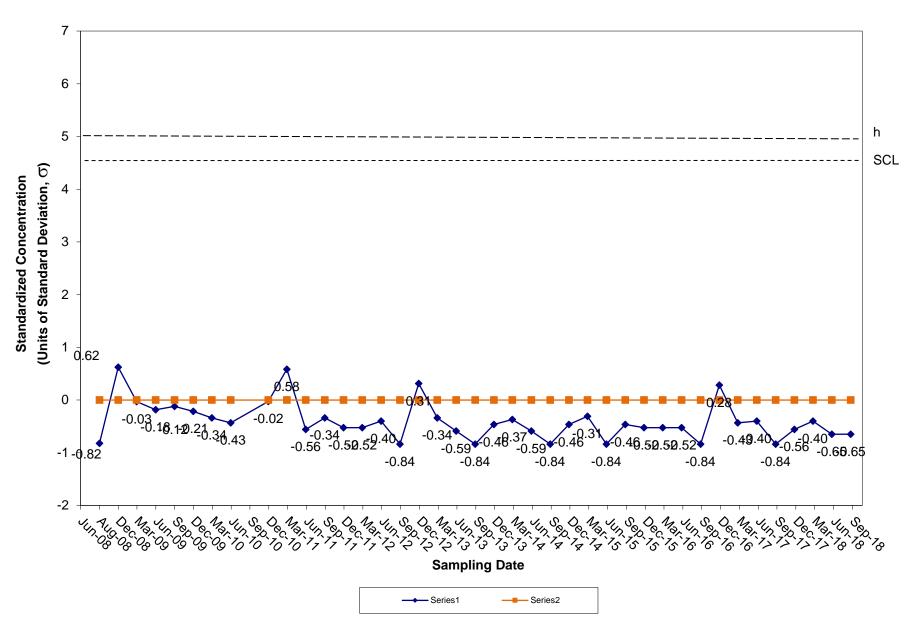
CUSUM Control Chart for Barium Tiverton Landfill Groundwater Compliance Well OW-14



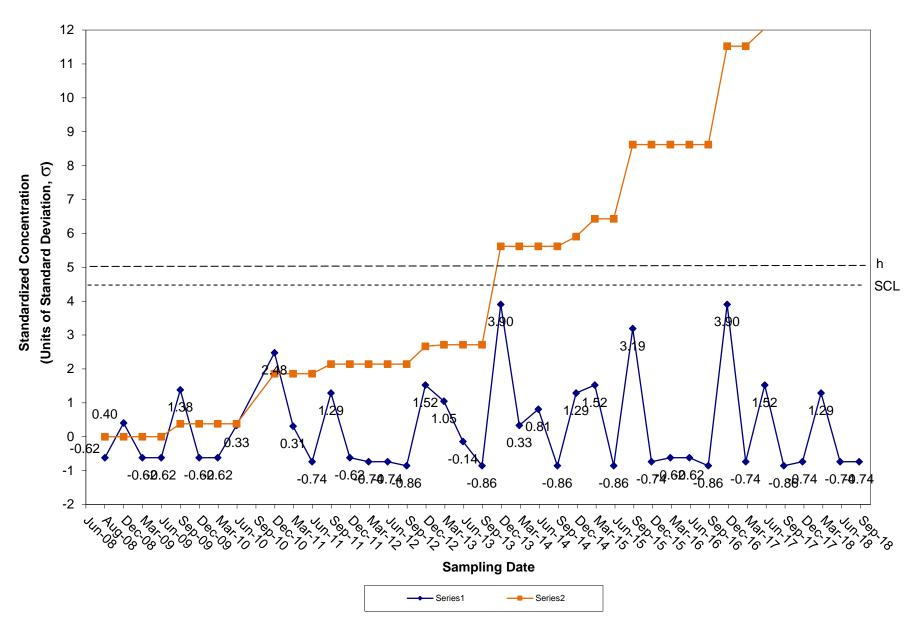
CUSUM Control Chart for Cadmium Tiverton Landfill Groundwater Compliance Well OW-14



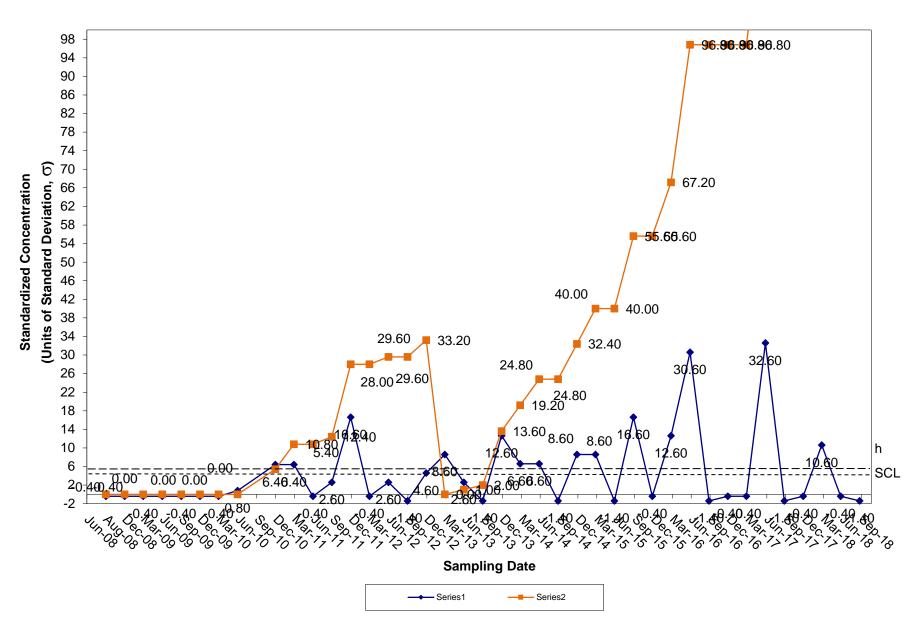
CUSUM Control Chart for Chromium Tiverton Landfill Groundwater Compliance Well OW-14



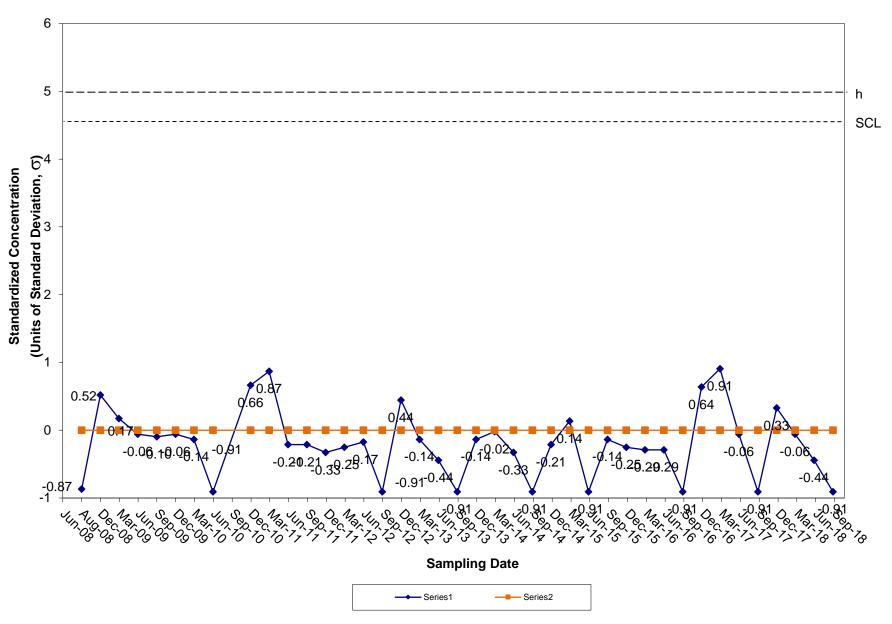
CUSUM Control Chart for Cobalt Tiverton Landfill Groundwater Compliance Well OW-14



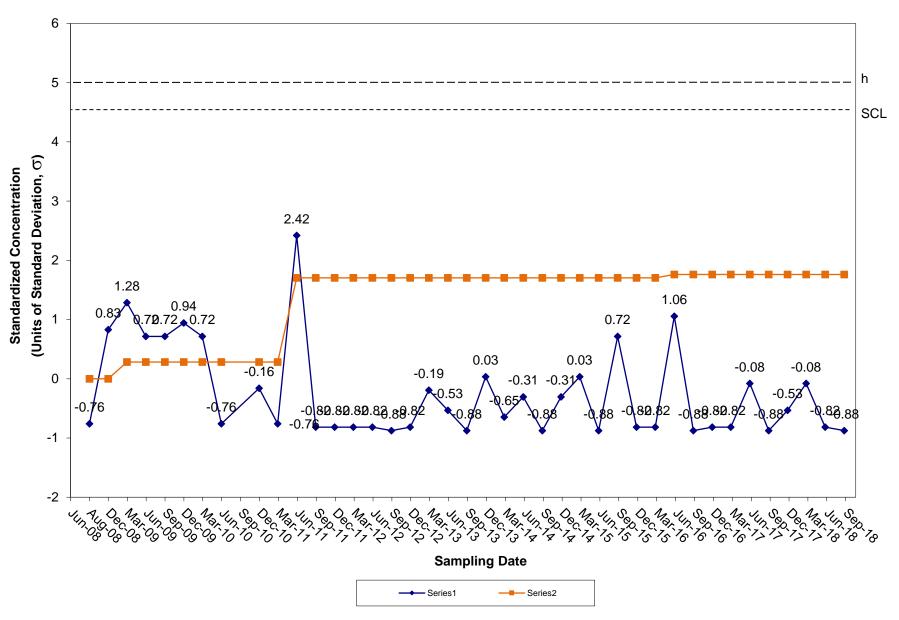
CUSUM Control Chart for Copper Tiverton Landfill Groundwater Compliance Well OW-14



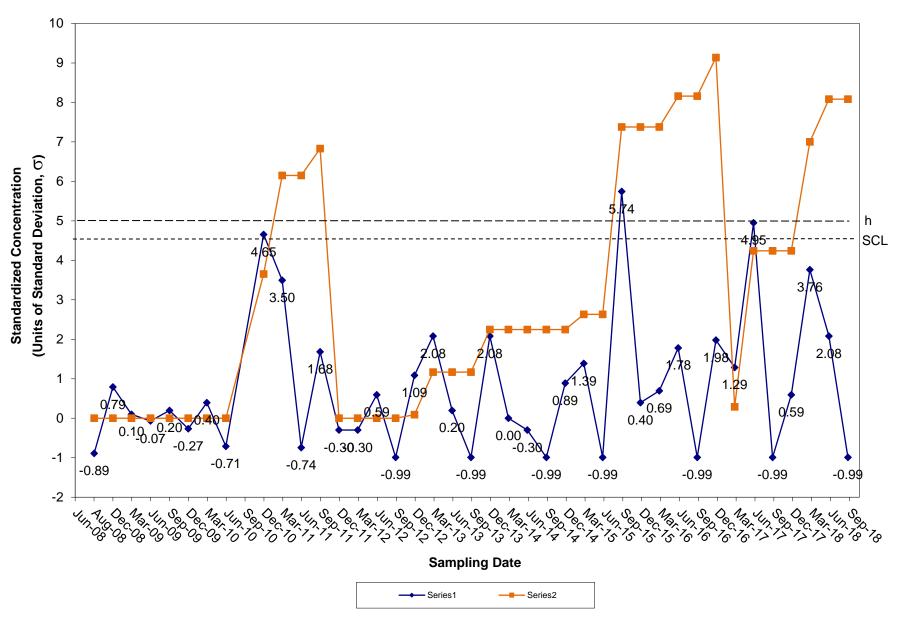
CUSUM Control Chart for Lead Tiverton Landfill Groundwater Compliance Well OW-14



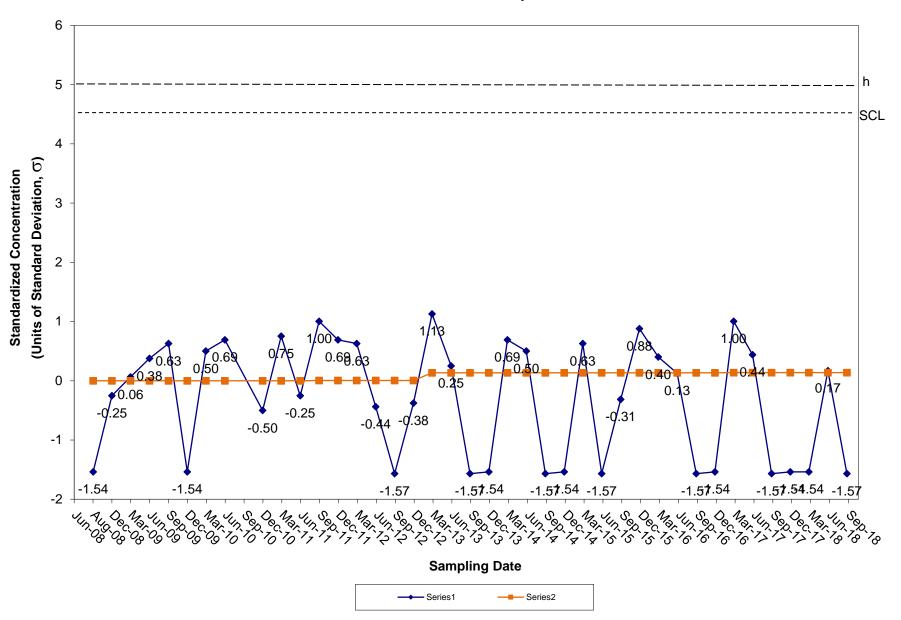
CUSUM Control Chart for Nickel Tiverton Landfill Groundwater Compliance Well OW-14



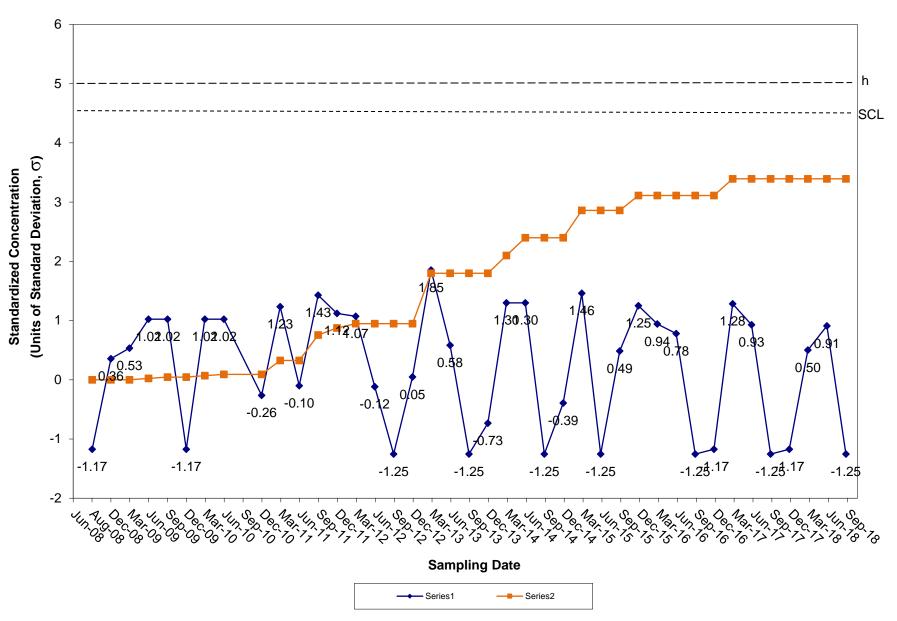
CUSUM Control Chart for Vanadium Tiverton Landfill Groundwater Compliance Well OW-14



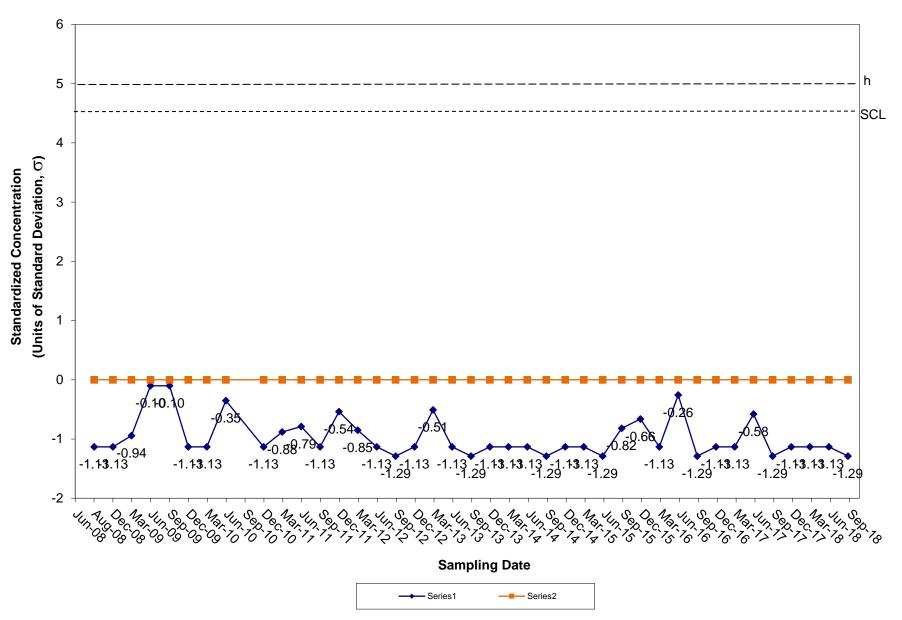
CUSUM Control Chart for Zinc Tiverton Landfill Groundwater Compliance Well OW-14



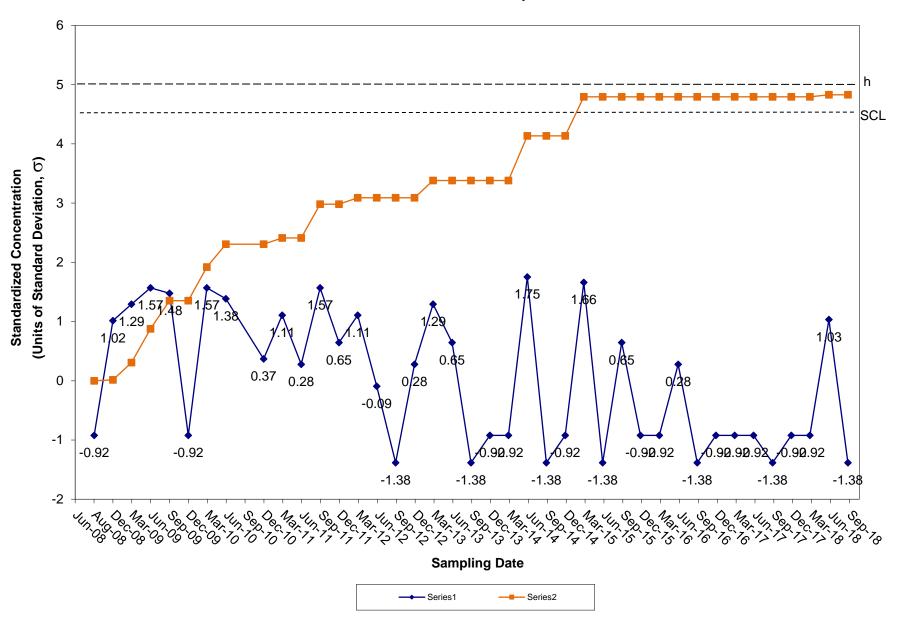
CUSUM Control Chart for Benzene Tiverton Landfill Groundwater Compliance Well OW-14



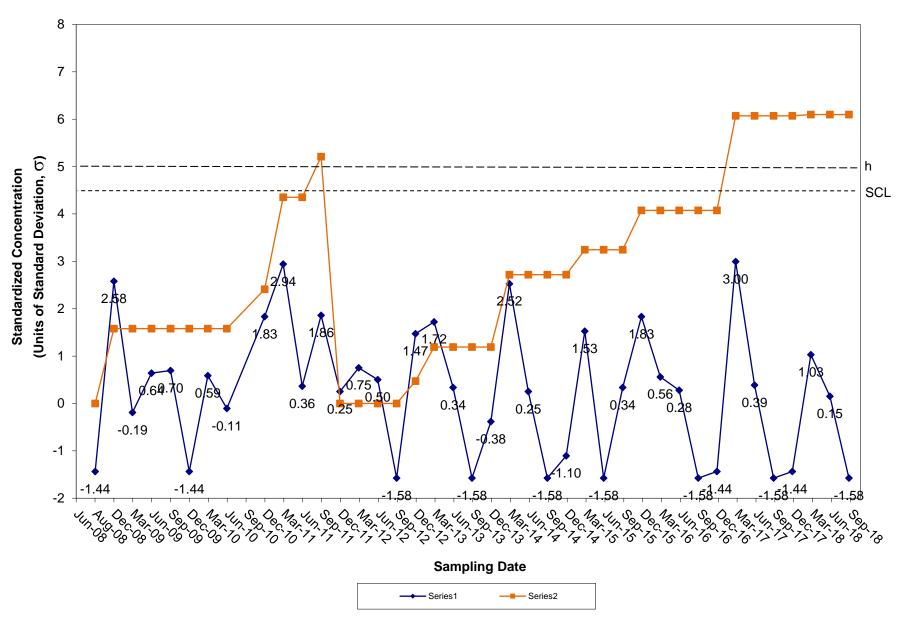
CUSUM Control Chart for Chlorobenzene Tiverton Landfill Groundwater Compliance Well OW-14



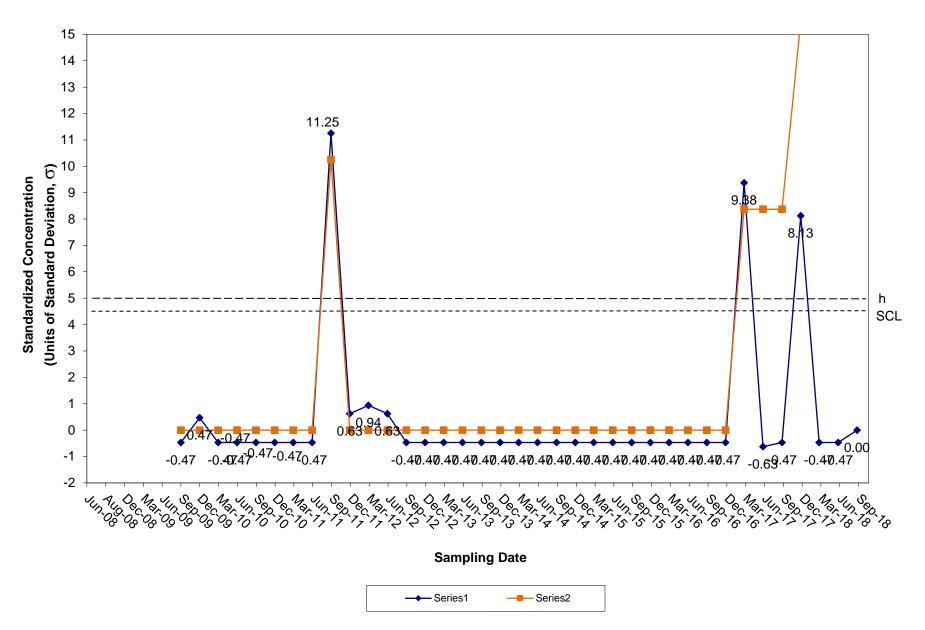
CUSUM Control Chart for Chloroethane Tiverton Landfill Groundwater Compliance Well OW-14



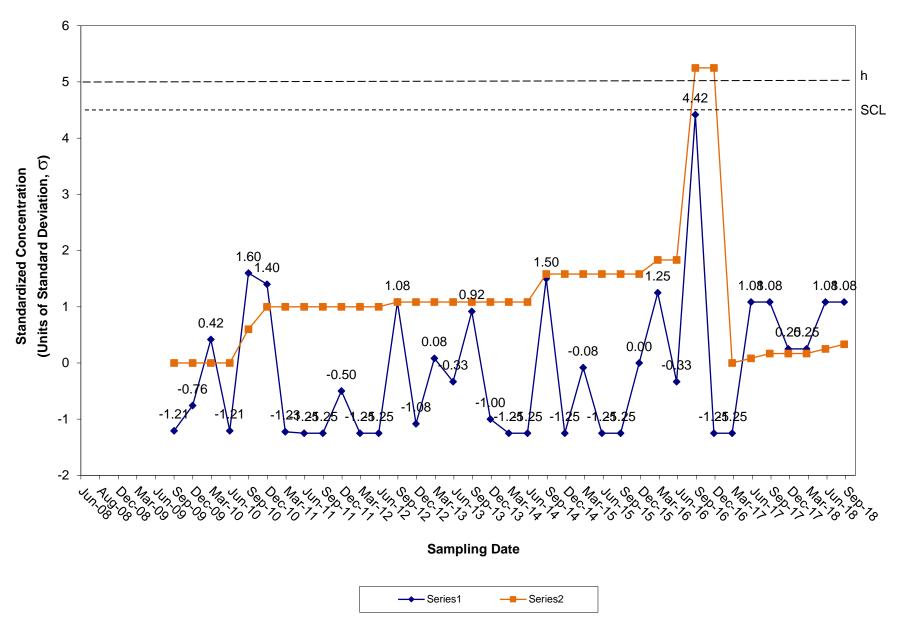
CUSUM Control Chart for 1,4-Dichlorobenzene Tiverton Landfill Groundwater Compliance Well OW-14



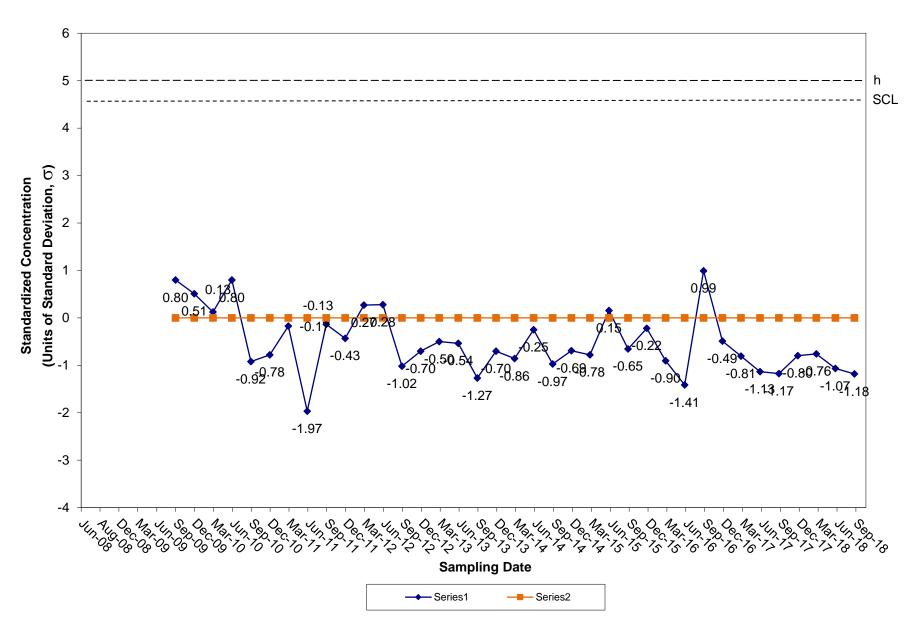
CUSUM Control Chart for MTBE Tiverton Landfill Groundwater Compliance Well OW-14



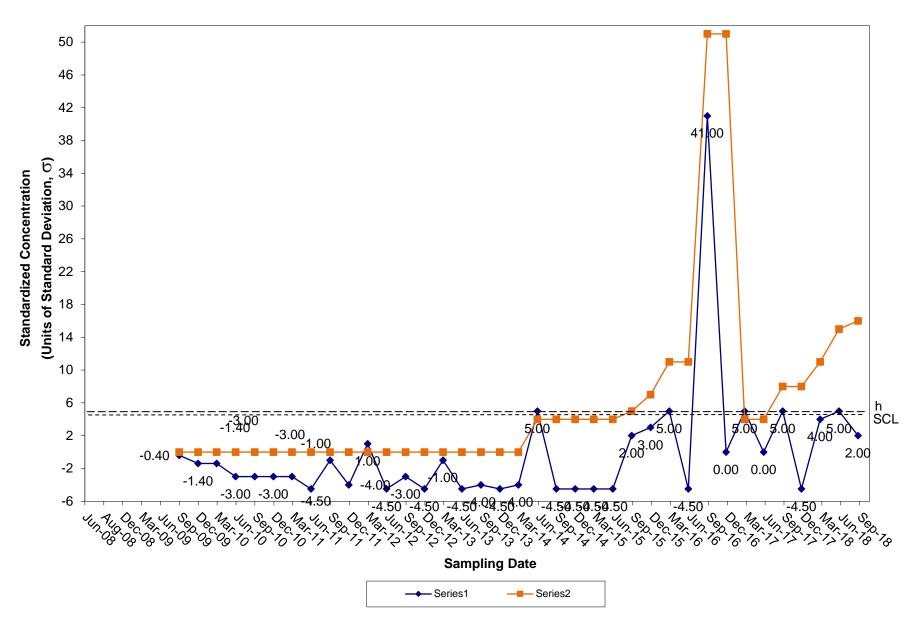
CUSUM Control Chart for Antimony Tiverton Landfill Groundwater Compliance Well OW-15



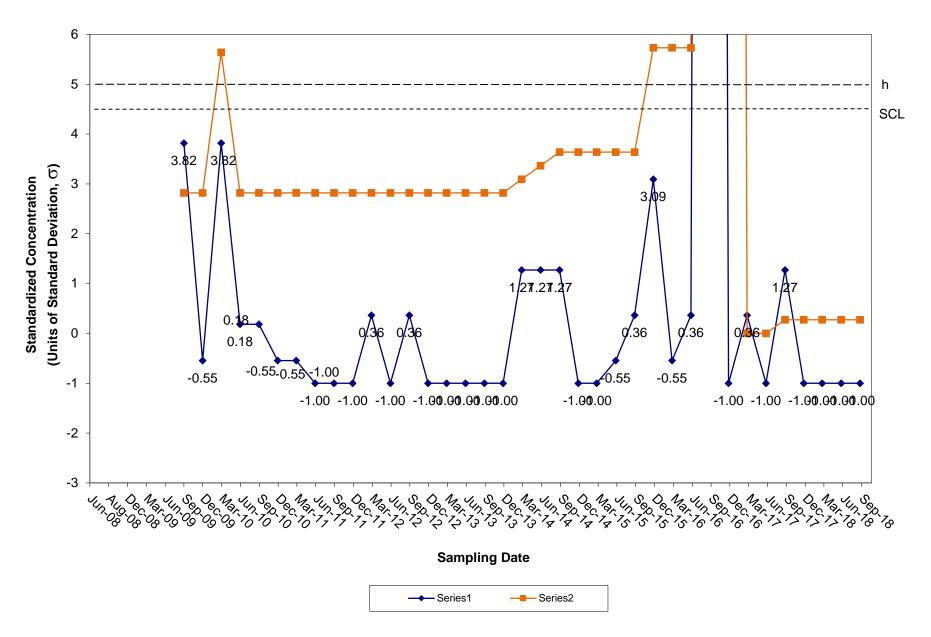
CUSUM Control Chart for Arsenic Tiverton Landfill Groundwater Compliance Well OW-15



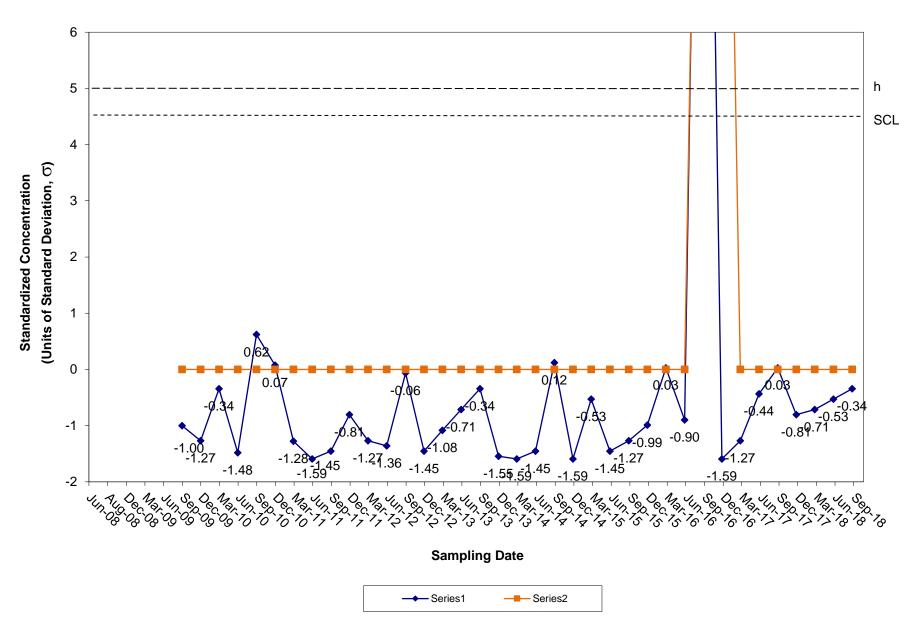
CUSUM Control Chart for Barium Tiverton Landfill Groundwater Compliance Well OW-15



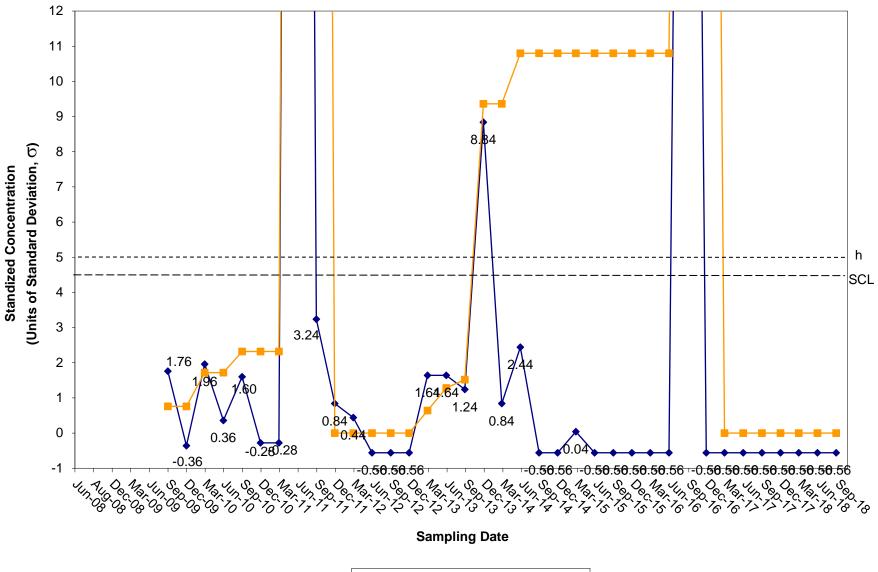
CUSUM Control Chart for Cadmium Tiverton Landfill Groundwater Compliance Well OW-15



CUSUM Control Chart for Chromium Tiverton Landfill Groundwater Compliance Well OW-15

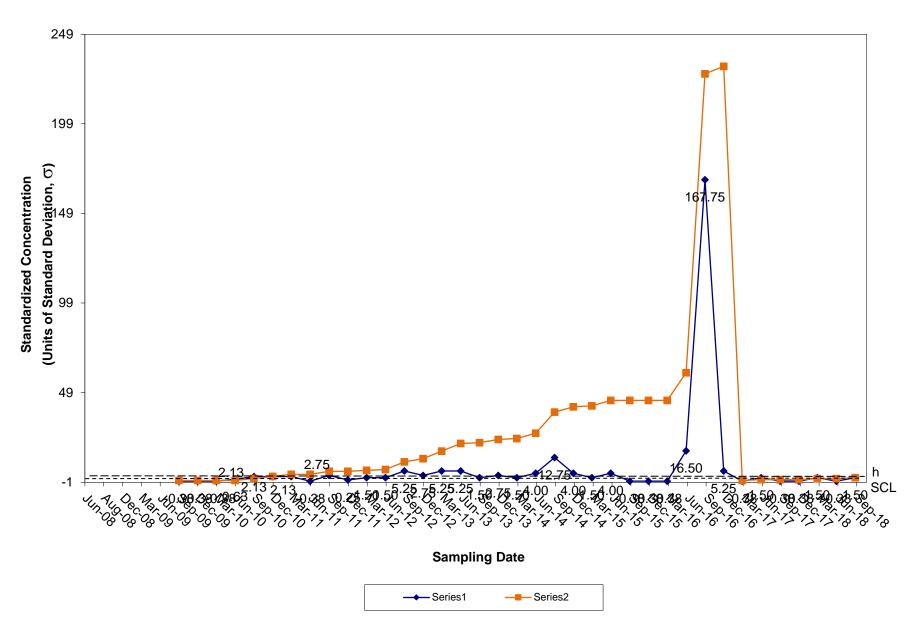


CUSUM Control Chart for Cobalt Tiverton Landfill Groundwater Compliance Well OW-15

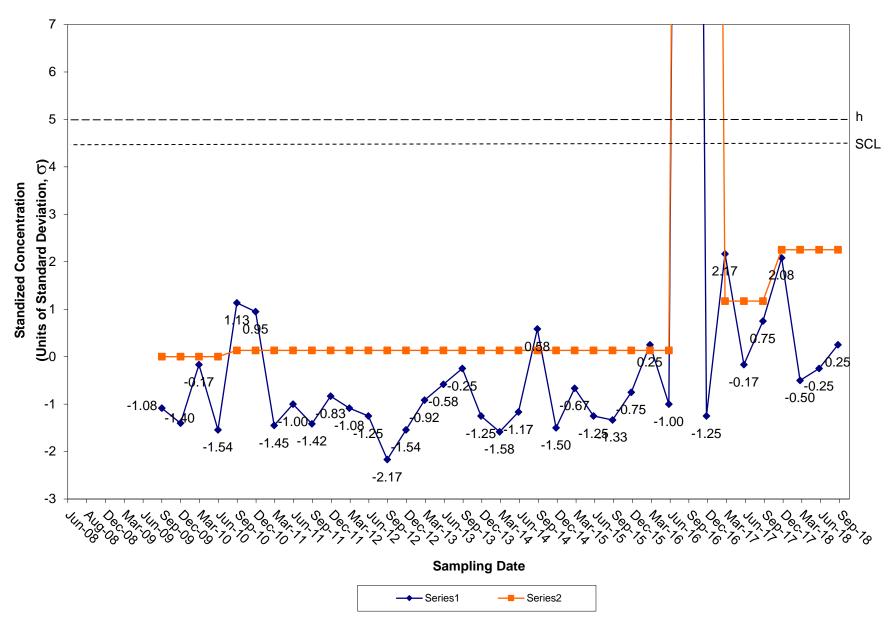


CUSUM Control Chart for Copper Tiverton Landfill Groundwater Complaince Well OW-15

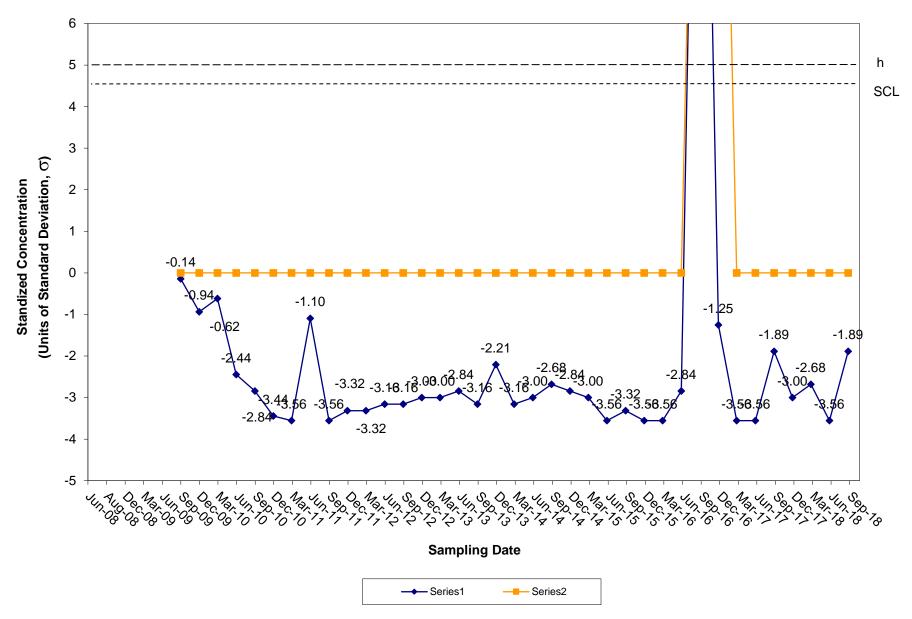
----- Series1 ------ Series2



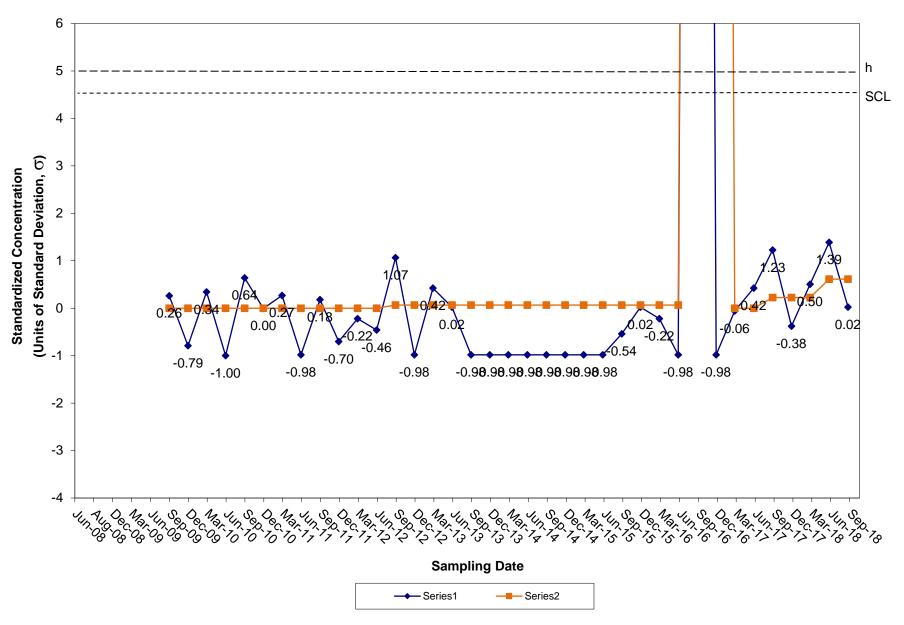
CUSUM Control Chart for Lead Tiverton Landfill Groundwater Compliance Well OW-15



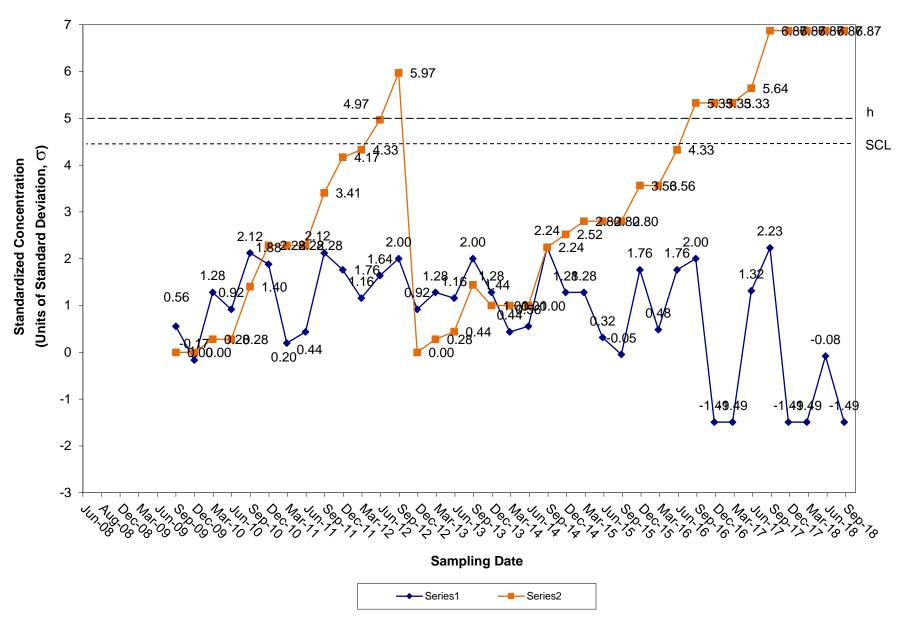
CUSUM Control Chart for Nickel Tiverton Landfill Groundwater Complaince Well OW-15



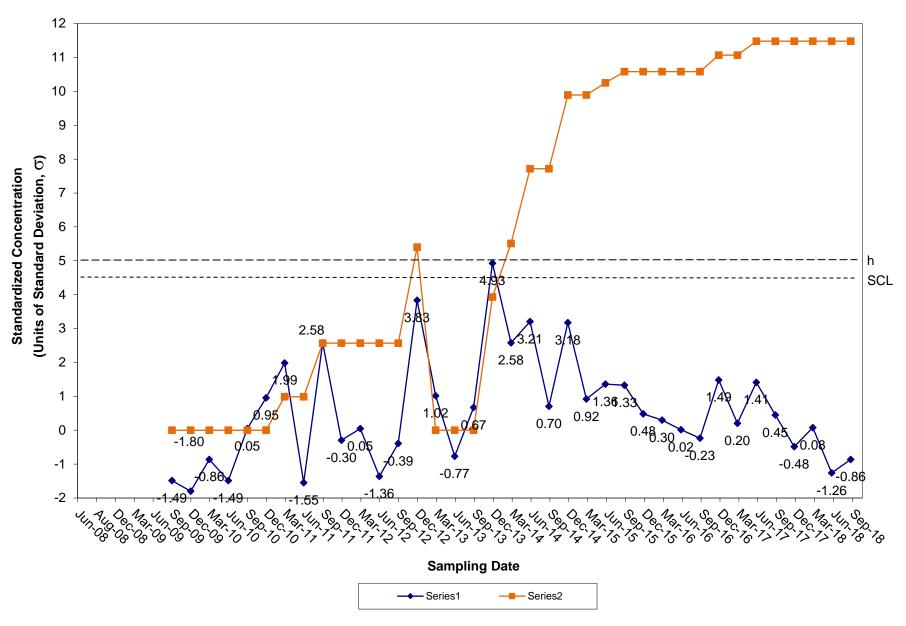
CUSUM Control Chart for Vanadium Tiverton Landfill Groundwater Complaince Well OW-15



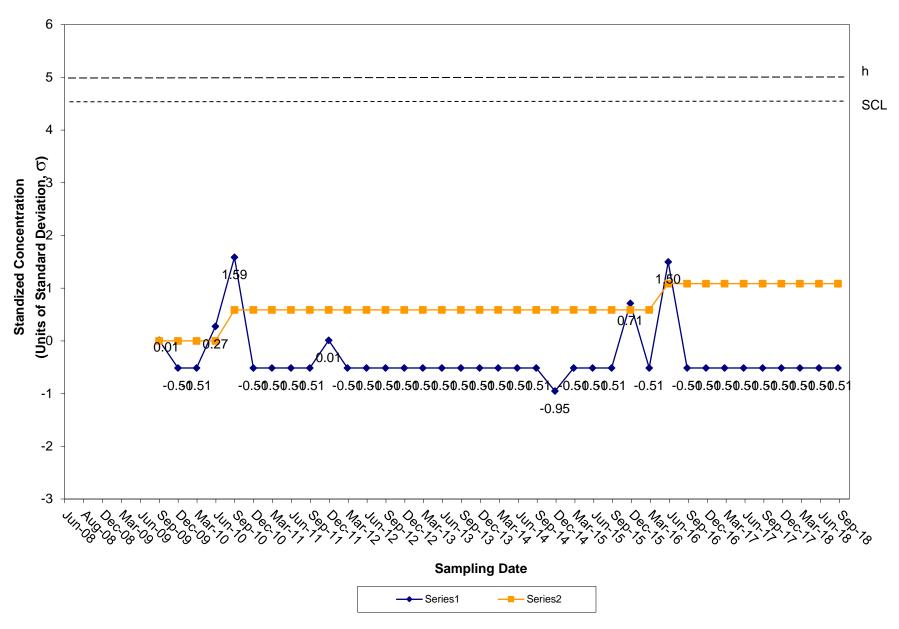
CUSUM Control Chart for Zinc Tiverton Landfill Groundwater Compliance Well OW-15



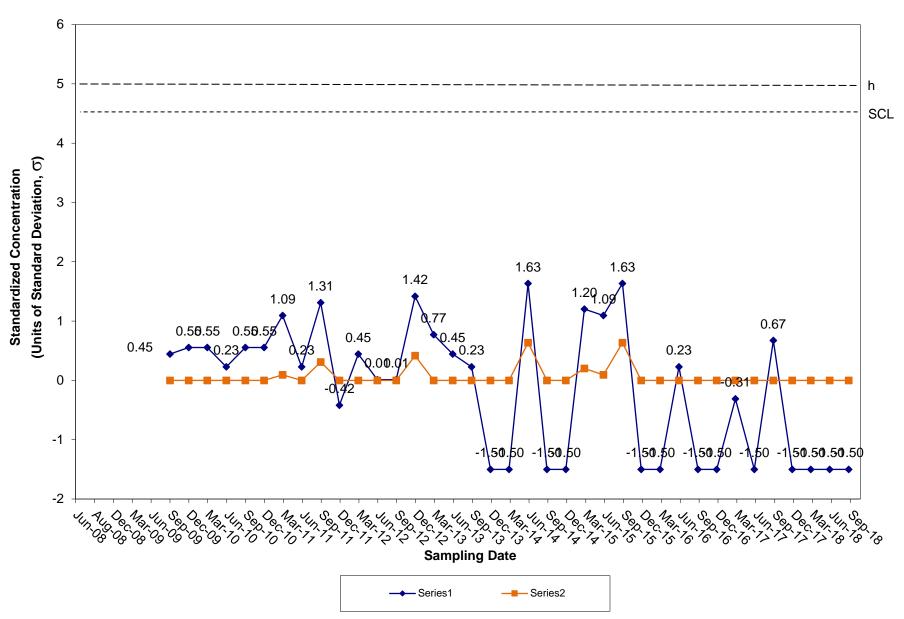
CUSUM Control Chart for Benzene Tiverton Landfill Groundwater Compliance Well OW-15



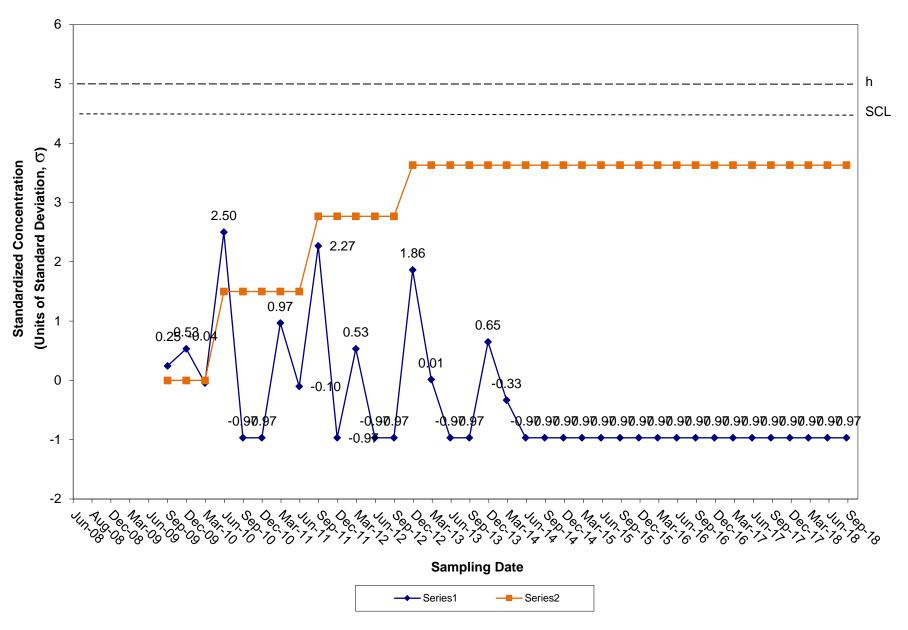
CUSUM Control Chart for Chlorobenzene Tiverton Landfill Groundwater Compliance Well OW-15



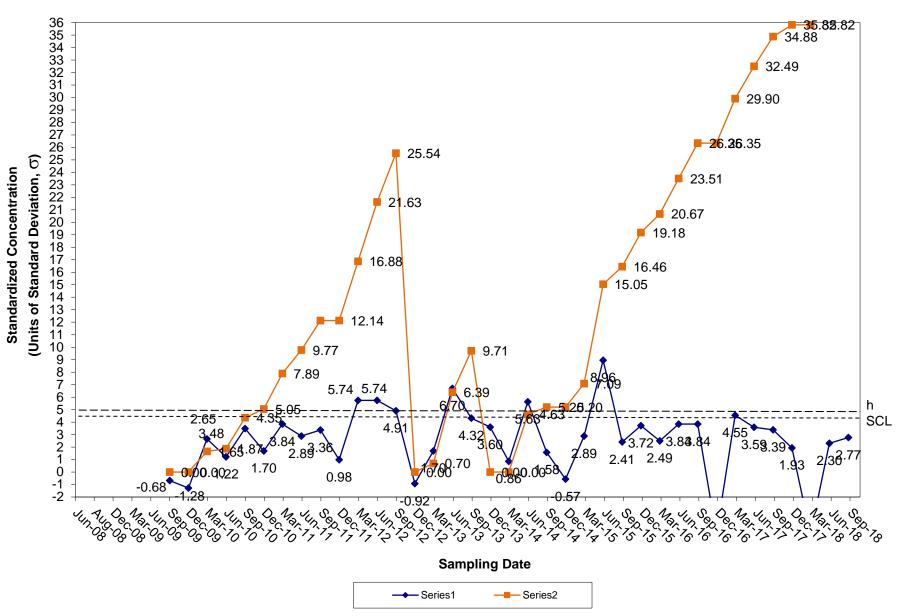
CUSUM Control Chart for Chloroethane Tiverton Landfill Groundwater Complaince Well OW-15



CUSUM Control Chart for 1,4-Dichlorobenzene Tiverton Landfill Groundwater Compliance Well OW-15

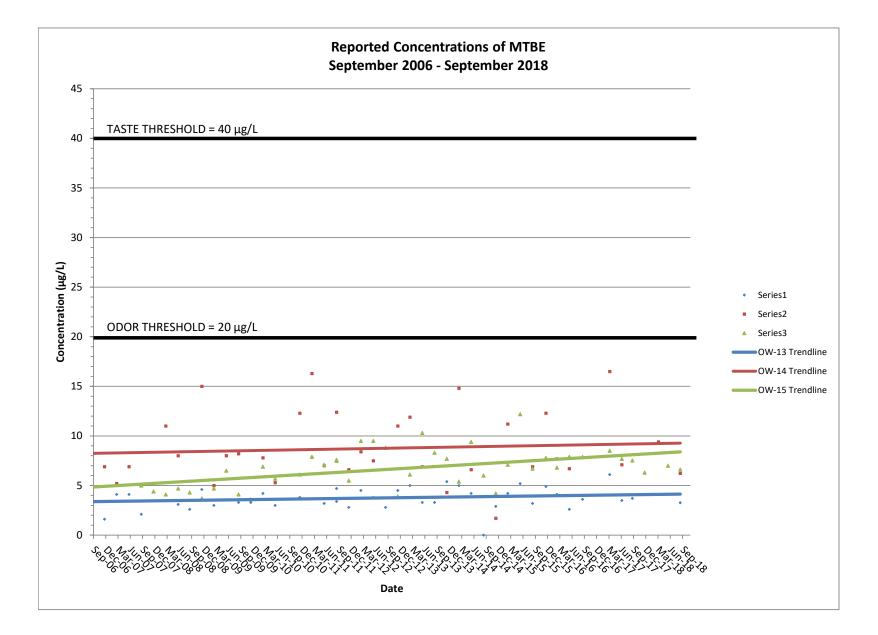


CUSUM Control Chart for Xylenes Tiverton Landfill Groundwater Compliance Well OW-15



CUSUM Control Chart for MTBE Tiverton Landfill Groundwater Compliance Well OW-15

<u>ATTACHMENT NO. 6</u> REPORTED CONCENTRATIONS OF MTBE FIGURE



ATTACHMENT NO. 7 FIELD SAMPLING DATA SHEETS

PROJECT NAME: PARE PROJECT NO.	TIVERTON LANDFILL : 94139.24	DATE: WEATHER:	9/27/2018 Sunny 70s		
WELL ID: OW-9	-	DIAMETER	(INCHES): <u>2</u>		
PURGE DATA					
WELL DEPTH: PURGE VOLUME (GAL): PURGER TYPE:	16 feet N/A gallons Peristaltic pump	MEASURE POINT: PURGE RATE (GPM): ELAPSED TIME (MIN):	Top of Casing N/A N/A		
WATER LEVEL DATA					
DEPTH: MEASURE POINT:	N/A feet Top of Casing	ELEVATION: DEVICE:	See Site Plan Water Level Indicator		
FIELD TESTING RES	FIELD TESTING RESULTS				
	READING 1	REAL	DING 2		
pH: SPEC. COND: TEMPERATURE:	N/A pH UNITS N/A mS/cm N/A °C	N/A N/A N/A	pH UNITS mS/cm °C		
NOTES:					
Well was was completely dry; therefore no readings or samples were collected.					

PROJECT NAME: PARE PROJECT NO.:	TIVERTON LANDFILL 94139.24	DATE: WEATHER:	9/27/2018 Sunny 70s
WELL ID: OW-7	_	DIAMETER	(INCHES): <u>2</u>
PURGE DATA			
WELL DEPTH: PURGE VOLUME (GAL): PURGER TYPE:	<u>11.8</u> feet <u>1.6</u> gallons Peristaltic pump	MEASURE POINT: PURGE RATE (GPM): ELAPSED TIME (MIN):	Top of Casing 0.1 +/- 15 +/-
WATER LEVEL DATA			
DEPTH: MEASURE POINT:	2.4 feet Top of Casing	ELEVATION: DEVICE:	See Site Plan Water Level Indicator
FIELD TESTING RESULT	<u>s</u>		
	READING 1	READ	ING 2
pH: SPEC. COND: TEMPERATURE:	<u>N/A</u> pH UNITS 0.797 mS/cm 17.4 °C	N/A 0.798 17.4	_pH UNITS _mS/cm _°C
<u>NOTES:</u>			

Samples were noted as generally clear and low in turbidity based on visual inspections of samples.

Samples were collected at 1:00 PM.

PROJECT NAME: PARE PROJECT NO.:	TIVERTON LANDFILL 94139.24	DATE: WEATHER:	9/27/2018 Sunny 70s	
WELL ID: OW-12	-	DIAMETER	(INCHES): <u>2</u>	
PURGE DATA				
WELL DEPTH: PURGE VOLUME (GAL): PURGER TYPE:	16.2 feet 0.90 gallons Peristaltic pump	MEASURE POINT: PURGE RATE (GPM): ELAPSED TIME (MIN):	Top of Casing 0.1 +/- 15 +/-	
WATER LEVEL DATA				
DEPTH: MEASURE POINT:	10.9 feet Top of Casing	ELEVATION: DEVICE:	See Site Plan Water Level Indicator	
FIELD TESTING RESULT	<u>S</u>			
	READING 1	READ	ING 2	
pH: SPEC. COND: TEMPERATURE:	<u>N/A</u> pH UNITS 0.608 mS/cm 14.2 ℃	N/A 0.601 14.3	_pH UNITS _mS/cm _°C	
NOTES:				
Samples were noted as generally clear and low in turbidity based on visual inspections of samples.				

Samples were collected at 11:45 AM.

PROJECT NAME: PARE PROJECT NO.:	TIVERTON LANDFILL 94139.24	DATE: WEATHER:	9/27/2018 Sunny 70s	
WELL ID: OW-13	_	DIAMETER	(INCHES): 2	
PURGE DATA				
WELL DEPTH: PURGE VOLUME (GAL): PURGER TYPE:	14.5 feet 1.70 gallons Peristaltic pump	MEASURE POINT: PURGE RATE (GPM): ELAPSED TIME (MIN):	Top of Casing 0.1 +/- 15 +/-	
WATER LEVEL DATA				
DEPTH: MEASURE POINT:	4.1 feet Top of Casing	ELEVATION: DEVICE:	See Site Plan Water Level Indicator	
FIELD TESTING RESULT	<u>s</u>			
READING 1 READING 2			ING 2	
pH: SPEC. COND: TEMPERATURE:	N/A pH UNITS 1.215 mS/cm 18.3 °C	N/A 1.216 18.4	_pH UNITS _mS/cm _°C	
NOTES:				
Samples were noted as generally clear and low in turbidity based on visual inspections of				

Samples were noted as generally clear and low in turbidity based on visual inspections of

supernatant sample after a 15-minute decanting period.

Samples were collected at 5:30 PM.

PROJECT NAME: PARE PROJECT NO.:	TIVERTON LANDFILL 94139.24	DATE: WEATHER:	9/27/2018 Sunny 70s		
WELL ID: OW-14	_	DIAMETER	(INCHES): <u>2</u>		
PURGE DATA					
WELL DEPTH: PURGE VOLUME (GAL): PURGER TYPE:	10.6 feet N/A gallons Peristaltic pump	MEASURE POINT: PURGE RATE (GPM): ELAPSED TIME (MIN):	Top of Casing N/A N/A		
WATER LEVEL DATA					
DEPTH: MEASURE POINT:	N/A feet Top of Casing	ELEVATION: DEVICE:	See Site Plan Water Level Indicator		
FIELD TESTING RESULTS					
	READING 1	READ	DING 2		
pH: SPEC. COND: TEMPERATURE:	N/A pH UNITS N/A mS/cm N/A °C	N/A N/A N/A	_pH UNITS _mS/cm _°C		
NOTES:					
Well was was completely dry; therefore no readings or samples were collected.					
pH sensor was not working	n for this round of sampling				

PROJECT NAME: PARE PROJECT NO.:	TIVERTON LANDFILL 94139.24	DATE: WEATHER:	9/27/2018 Sunny 70s	
WELL ID: OW-15	_	DIAMETER	(INCHES): <u>2</u>	
PURGE DATA				
WELL DEPTH: PURGE VOLUME (GAL): PURGER TYPE:	16.8 feet 1.2 gallons Peristaltic pump	MEASURE POINT: PURGE RATE (GPM): ELAPSED TIME (MIN):	Top of Casing 0.1 +/- 15 +/-	
WATER LEVEL DATA				
DEPTH: MEASURE POINT:	9.5 feet Top of Casing	ELEVATION: DEVICE:	See Site Plan Water Level Indicator	
FIELD TESTING RESULT	<u>S</u>			
	READING 1	READ	ING 2	
pH: SPEC. COND: TEMPERATURE:	N/A pH UNITS 1.550 mS/cm 14.9 °C	N/A 1.557 14.7	_pH UNITS _mS/cm _°C	
NOTES:				
Samples were noted as generally clear and low in turbidity based on visual inspections of				

Samples were noted as generally clear and low in turbidity based on visual inspections of

supernatant sample after a 15-minute decanting period.

Samples were collected at 4:30 PM.

PROJECT NAME: PARE PROJECT NO.:	TIVERTON LANDFILL 94139.24	DATE: WEATHER:	9/27/2018 Sunny 70s
WELL ID: OW-16	_	DIAMETER	(INCHES): <u>2</u>
PURGE DATA			
WELL DEPTH: PURGE VOLUME (GAL): PURGER TYPE:	45.8 feet 6.8 gallons Peristaltic pump	MEASURE POINT: PURGE RATE (GPM): ELAPSED TIME (MIN):	Top of Casing 0.3 +/- 20 +/-
WATER LEVEL DATA			
DEPTH: MEASURE POINT:	4.5 feet Top of Casing	ELEVATION: DEVICE:	See Site Plan Water Level Indicator
FIELD TESTING RESULT	<u>S</u>		
	READING 1	READ	ING 2
pH: SPEC. COND: TEMPERATURE:	N/A pH UNITS 0.739 mS/cm 14.5 °C	N/A 0.737 14.6	_pH UNITS _mS/cm _°C
NOTES:			

Samples were noted as generally clear and low in turbidity based on visual inspections of samples.

Samples were collected at 1:45 PM.

PROJECT NAME: PARE PROJECT NO.:	TIVERTO 94139.01	N LANDFILL /021	DATE: WEATHER:	9/27/2018 Sunny 70s
FIELD TESTING RESULT	<u>'S:</u>			
SURFACE WATER LO	CATION:	SW-1		
	REA	DING 1		
pH: SPEC. COND: TEMPERATURE:	N/A 0.62 18.4	_pH UNITS _mS/cm _°C		
SURFACE WATER LO	CATION:	<u>SW-2</u>	 	
	REA	DING 1		
pH: SPEC. COND: TEMPERATURE:	N/A 0.34 18.9	_pH UNITS _mS/cm _°C		
SURFACE WATER LO	CATION:	SW-3	 	
	REA	DING 1		
pH: SPEC. COND: TEMPERATURE:	N/A 0.57 19.4	_pH UNITS _mS/cm _°C		
NOTES:				