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SUBMITTED VIA ELECTRONIC MAIL

January 8, 2018

Ms. Mary McIntosh
New York State Department of Environmental Conservation
Region 9
270 Michigan Avenue
Buffalo, NY 14203

**Subject: Fall 2017 Semi-Annual Performance Monitoring Report**
**Ekonol Polyester Resins Site**
**Town of Wheatfield, Niagara County, New York**
**NYSDEC Site No. V00653-9**

Dear Ms. McIntosh,

On behalf of Elm Holdings Inc., AECOM Technical Services, Inc. (AECOM) is pleased to provide the attached Fall 2017 Semi-Annual Performance Monitoring Report for the subject facility (Site). The semi-annual monitoring data in EQuIS format will be submitted separately.

Please feel free to contact me via e-mail or at (716) 923-1300 if you have any questions regarding this submittal.

Sincerely yours,

James L. Kaczor

James L. Kaczor, PG
Ekonol Site Task Leader
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Attachment

cc: M. Kolar, Patriot Equities (electronic copy)
G. Brown, RT Environmental (electronic copy)
J. Sabbatis, Saint-Gobain (electronic copy)
Project File 60481767/Ekonol

AECOM Environment

Prepared by:
AECOM
Buffalo, NY
60481767
January 2018

# Semi-annual Performance Monitoring Report, Fall 2017
# *In-situ* Treatment Using Enhanced Bioremediation

# Ekonol Polyester Resins Site, NYSDEC Voluntary Cleanup Program Site No. V00653-9
# 6600 Walmore Road, Wheatfield, NY

*Submitted to:*

New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
270 Michigan Avenue
Buffalo, NY 14203

*On behalf of:*

Elm Holdings Inc.

AECOM Environment

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*On behalf of*:

Elm Holdings Inc.

Emily Au

Prepared By Emily Au

James L. Kaczor

Reviewed By James L. Kaczor, P.G.

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# 1.0 Introduction

This Fall 2017 Semi-annual Performance Monitoring Report summarizes groundwater monitoring activities and periodic inspections of remedial components completed at the Ekonol Polyester Resins Site (Site), 6600 Walmore Road, Wheatfield, NY (see Figure 1 – Project Location Plan), New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP) Site No. V00653-9.

This report provides the results from Fall 2017 groundwater sampling for the analysis of chlorinated volatile organic compounds (CVOCs), select dissolved inorganics, and natural attenuation parameters conducted from October 6 through 13, 2017, the quarterly sub-slab depressurization (SSD) operation, monitoring, and maintenance (OM&M) inspections conducted on June 13 and September 22, 2017, and the the general site inspection and bioreactor trench pavement cover inspections conducted on October 11, 2017.

The scope of work is defined in the February 2010 NYSDEC-approved "Remedial Action Work Plan (RAWP) for In Situ Treatment Using Enhanced Bioremediation," the NYSDEC-approved (April 10, 2012) changes to the reporting scope and schedule, and the Site Management Plan (SMP), submitted to the NYSDEC on July 21, 2015.

Figure 2 – Site Plan presents monitoring well locations, injection well locations, performance monitoring well locations, and site features.

# 2.0 Bioreactor and Injection / Monitoring Well Inspection

As part of the Fall 2017 event, the pavement surface conditions above the bioreactor trenches were inspected for settlement and groundwater monitoring well protective casings were inspected for integrity. A site-wide inspection (to be completed at a minimum yearly) was completed on October 11 2017. The pavement inspection form and site-wide inspection form are included in Appendix A.

As noted in the Pavement Inspection Form, asphalt patch was used to fill in three small damaged areas of pavement over the biroreactor trenches. AECOM will continue to monitor conditions identified in the inspection forms.

In addition, well headspace concentrations were monitored for methane (lower explosive limit, or "LEL") and hydrogen sulfide vapor concentrations within source area wells in October 2017. Locations that exhibited elevated levels of methane and/or hydrogen sulfide (within the well casings) were documented (see Table 1). In October 2017, each well that exhibited elevated methane and/or hydrogen sulfide levels had a vented plug already installed.

# 3.0 Sub-slab Depressurization System Operations and Maintenance

The SSD system was inspected on June 13 and September 22, 2017 in accordance with the NYSDEC-approved Ekonol SSD Operations, Maintenance, and Monitoring Plan (SSD OM&M Plan) dated December 5, 2011.

Results of the inspections identified that the system was in proper working order. The inspections included a visual inspection of the system's interior and exterior components, recording of U-tube manometer measurements, and smoke stick testing. Additionally, the system was shut down temporarily to confirm that the audible alarm functions as designed. The June and September 2017 inspection checklists for the SSD system are included in Appendix A. No repairs or maintenance to the sub-slab depressurization system were needed this reporting period.

In October 2015, sub-slab vapor samples were collected by Parsons in accordance with the Ekonol SSD OM&M Plan to help determine if cessation of operation of the SSD system is feasible. A sub-slab vapor sample was collected in August 2015 with the SSD system running, and in October 2015 with the SSD system shut down for 24 hours prior. Samples were submitted for volatile organic compound (VOC) analysis using EPA Method TO-15. Sampling results for both events were below method detection limits for all constituents of concern. Summary of the SSD sampling activities and recommendations were provided by Parsons to NYSDEC under letter dated January 26, 2016. The letter requested approval to decommission the SSD; the letter is currently under NYSDEC review.

# 4.0 Semi-Annual Performance Monitoring

In addition to the OM&M activities discussed above, Fall 2017 semi-annual groundwater sampling was completed October 6 through 13, 2017 in accordance with the submitted SMP (July 2015), approved work plans, and previously reported procedures. In addition to monitoring the overall groundwater conditions, performance monitoring was completed to assist in evaluating the effectiveness of the groundwater remediation from the overburden bioreactor and in the bedrock groundwater treatment area.

The Fall 2017 semi-annual groundwater monitoring program included water level measurements at all Site wells, groundwater sampling of 38 wells, and submission of groundwater samples for analysis of CVOCs and natural attenuation parameters. A copy of the groundwater sampling logs is provided in Appendix B. Quality assurance/quality control (QA/QC) samples, including two field duplicates, two matrix spike/matrix spike duplicate samples, and five trip blanks were also collected and submitted for analysis. Table 2 presents a summary of groundwater sample locations and associated QA/QC samples.

The analytical results for these samples were reviewed for usability with respect to NYSDEC quality assurance and quality control requirements as discussed in the data usability summary report (DUSR) included in Appendix C.

## 4.1 Groundwater Elevation Measurements

Water levels were measured on October 6, 2017 in the monitoring wells, injection wells, and performance monitoring wells relative to the top of the inner well casing using an electronic water level tape accurate to 0.01 foot (ft). The depth to water was measured in each well from a surveyed point on the casing. The water levels were then converted to elevations presented as feet above mean sea level (ft AMSL, NAVD 88 datum). The groundwater elevations were used to construct groundwater elevation contour maps in both the overburden and bedrock zones. Table 3 provides a summary of the groundwater level measurements and calculated groundwater elevations. Figure 3 presents overburden groundwater elevation contours and Figure 4 presents bedrock groundwater elevation contours. Additional discussion regarding overburden and bedrock groundwater elevations and flow directions is presented in Section 5.1 and Section 6.1, respectively.

## 4.2 Groundwater Sampling

The locations of the monitoring wells, injection wells, and performance monitoring wells are shown on Figure 2. A list of wells, sample IDs, dates sampled, and purge volumes is provided in Table 4. Wells were sampled following the methodology outlined in the SMP and previously approved work plans. Groundwater sampling logs are provided in Appendix B.

The 38 wells were purged and sampled following low-flow procedures with dedicated tubing and a peristaltic pump. During purging, groundwater was monitored for temperature, specific conductivity, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity. Table 5 presents a summary of the groundwater sampling field parameter data.

Table 2 presents a summary of analyses for each well sampled. Samples from each well were analyzed for select CVOCs, including:

- tetrachloroethene (PCE);
- trichloroethene (TCE);
- cis-1,2-dichloroethene (DCE);
- trans-1,2- DCE, 1,1-DCE;
- 1,1-dichloroethane (DCA);
- 1-1-1-,trichloroethane;
- vinyl chloride (VC);
- chloroethane; and,
- dissolved gases (methane, ethane, and ethene).

Samples from 31 of 38 wells were also analyzed for:

- dissolved inorganics (iron and potassium); and,
- total organic carbon (TOC).

Samples for these analyses were shipped under approved chain of custody procedures to TestAmerica Laboratories, Inc. (TAL) in North Canton, OH, an approved New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory.

Table 6 provides a summary of sample collection and analysis specifications for each analysis type including sample containers, preservation methods, analytical methods, and other quality control information.

## 4.3 Investigative Derived Waste Management

Purge water and decontamination water were contained and staged in appropriate containment in new, closed-head 55-gallon drums pending characterization for disposal. Drums containing potentially hazardous purge water were labeled and stored in accordance with the Site's hazardous waste management plan. Hazardous purge water was transported in accordance with appropriate regulations and disposed at an appropriately licensed facility(s).

Pick-up and transportation for offsite disposal by Heritage Environmental Services, Inc. (Indianapolis, IN) was completed on November 21, 2107.

## 4.4 Data Validation

Analytical results for samples collected October 6 through 13, 2017 were reviewed by AECOM for usability with respect to the following requirements:

- SMP (July 2015);
- NYSDEC Analytical Services Protocol (ASP); and,
- USEPA Region II Standard Operating Procedures (SOPs).

The data submitted by the laboratory were reviewed and validated. All sample analyses were found to be compliant with the method criteria, except as noted within the DUSR (see Appendix C). Those results qualified 'J' (estimated value) or 'UJ' (estimated reporting limit) during the data review are considered conditionally usable. All other sample results are usable as reported. AECOM does not recommend the re-collection of any samples.

# 5.0 Bioreactor Performance and Monitoring Results

This section presents the most recent concentrations and data trends for the overburden bioreactor and site overburden wells through the Fall 2017 semi-annual sampling event. Data trends for selected wells are discussed herein. A summary of Fall 2017 analytical data is provided in Table 7. Figures 5A through 5D provide overburden isoconcentration contours of TCE, cis-1,2-DCE, VC, and total CVOCs (sum of TCE / DCE/ VC and TCA / DCA), respectively. Historical analytical data tables for all site wells can be found in Appendix D. Time series plots depicting historical CVOC data for all wells in the current SMP sampling program are provided in Appendix E.

## 5.1 Overburden Groundwater Elevations and Flow Directions

A summary of groundwater elevation data collected October 6, 2017 is provided in Table 3, including location coordinates, top of casing, depth to water and groundwater elevations for the monitoring wells, injection wells, and performance monitoring wells.

Figure 3 presents an overburden groundwater contour map based on the October 6, 2017 water level data. Overburden groundwater was measured at elevations between 577.76 ft AMSL (PMW-9S) and 583.26 ft AMSL (PMW-1S). An overburden groundwater mound is present in the bioreactor portion of the Site (especially the western portion where bedrock injections were performed), with flow outward from this mound. Further from this mound, there is a slight southwest and south flow towards MW-8S, MW-12S, and MW-11S, away from the area of the bioreactors. These wells are in the parking lot to the south of the bioreactor trenches. In general, gradients are greatest in the western area of the bioreactor trenches, becoming more slight to the east within, and to the south away from, the bioreactor trenches.

## 5.2 Overburden Observations Inside the Bioreactor Trenches

CVOC concentrations within the bioreactor trenches remain significantly decreased compared to samples taken within the first three to six months after installation of the bioreactors (April 2011). TCE, the primary CVOC, was generally depleted from the shallow groundwater within approximately the first six months of completion of the bioreactor installations. In October 2017, TCE was again below detection limits at all locations within the bioreactor. Concentrations of cis-1,2-DCE and VC declined during the first year of monitoring and have remained below pre-treatment concentrations, with the exception of decreasing but cyclical behavior in OR-6SM and OR-10SM (both cis-1,2-DCE and VC). A slight increase in cis-1,2-DCE and VC is also noted in recent results for OR-18SM.:

- At OR-6SM, cis-1,2-DCE decreased from 680 µg/L in April 2017 to 93 µg/L in October 2017, and has shown a cyclical increase and corresponding decrease in DCE concentrations from April 2013 to present. VC has shown a similar trend in this well as it has decreased from 280 µg/L in April 2017 to 24 µg/L in October 2017, with the same cyclical increase and decrease since April 2013 (see Appendix D). Concentrations of DCE and VC in OR-6SM have been on a downward trend for the last three sampling events.
- A similar but less pronounced pattern of increase and subsequent decrease in DCE and VC concentrations has been observed since July 2014 in OR-10SM. However, concentrations of

both cis-1,2-DCE and VC in OR-10SM increased from 1.2 µg/L and 3.1 µg/L, respectively, in April 2017 to 91 µg/L and 120 µg/L (see Appendix D).

- At OR-18SM, there was an uptick in the concentrations of both cis-1,2-DCE and VC during the last two sampling events when compared with recent historical data. Prior to April 2017, cis-1,2-DCE and VC values were less than 50 µg/L since December 2013. In April 2017 and October 2017, cis-1,2-DCE was 140 µg/L and 230 µg/L, respectively, and VC was 130 µg/L and 90 µg/L, respectively (see Appendix D). This cyclical pattern of CVOC concentrations has been observed at other locations in the overburden.

In April 2017, microbial counts for measurement of *Dehalococcoides spp.* (DHC), which degrade chlorinated solvent compounds, ranged from one to three orders of magnitude higher than concentrations measured after bioreactor installation in July 2011. Historical DHC data results are included in Appendix D. DHC concentrations are currently sampled in select overburden wells during only the spring semi-annual sampling event and were not sampled in October 2017. The next scheduled microbial analysis is scheduled for Spring 2018.

The geochemical conditions in the bioreactor wells indicate that the bioreactors remain anaerobic. Average ORP in October 2017 was -329 millivolts (mV), a decrease from an average ORP of -270 mV in April 2017, maintaining a level conducive to anaerobic biodegradation (Table 5). TOC concentrations in the bioreactor wells have decreased substantially from initial concentrations in July 2011 (an average of 1,325 mg/L) to October 2017 (an average of 20.1 mg/L) (see Appendix D). Despite the decrease in TOC concentrations in the bioreactor wells there remains adequate TOC to act as an electron donor for anaerobic biodegradation of chlorinated solvents. The average TOC level is at the lower end of adequate; this trend will be monitored.

## 5.3 Overburden Performance Monitoring Well Observations Outside the Bioreactor Trenches

In overburden performance monitoring wells (PMW) outside the bioreactors, the overall concentration of CVOCs (sum of molar concentration of TCE, DCE, and VC) in overburden groundwater is decreasing. At individual PMW wells, CVOC concentrations are variable, with some wells showing increases, some showing decreases and others remaining relatively unchanged.

Although there is an overall decreasing trend in CVOCs, at some locations CVOCs are more persistent. The highest and most persistent CVOC concentrations in the PMW overburden wells remain at:

- Wells PMW-5S, PMW-9S, and PMW-11S, located between the two bioreactor trenches (note these wells are sampled annually in the spring and were not sampled in September 2017 – refer to Appendix D for historical analytical results); and,
- Wells PMW-3S and PMW-6S located downgradient of the southernmost trench and south of the former secondary containment excavation.

Downgradient of the trenches, PMW-3S remained stable compared to other recent sampling events. PMW-6S increased slightly in CVOCs as compared to April 2017. PMW-6S also shows evidence of a cyclical pattern similar to other well locations discussed above in the bioreactor trenches.

At the locations between the bioreactor trenches (PMW-5S, PMW-9S, and PMW-11S), TOC concentrations have never been elevated above background (approximately 12 mg/L). Thus, CVOC

concentrations are expected to remain persistent without additional treatment. These wells are scheduled to be sampled again in Spring 2018.

With the exception of PMW-6S (21 mg/L), TOC concentrations are less than 10 mg/L indicating a deficiency of electron donors in the shallow areas. PMW-6S continued to decrease in TOC concentrations when compared to the baseline sampling (July 2011).

Due to the low hydraulic conductivity of the fine-grained soils (less than 0.5 feet/day), horizontal transport of TOC and associated lateral expansion of the treatment zone was anticipated to be slow. Empirical data have demonstrated this to be the case; however, due to mounding in the former excavation area (observed throughout the investigation and remediation) the calculated transport rates are variable, and therefore, variations in the horizontal expansion of the treatment zone could also be variable.

Due to the persistent CVOC concentrations in the above specified wells, the lack of TOC outside of the bioreactors in the overburden, and the variable transport rates of the substrate in the bioreactor, additional substrate injections in the overburden may be warranted.

## 5.4 Overburden Observations – Other Wells

Other overburden wells include an upgradient well (MW-1S), wells immediately adjacent to the bioreactors (MW-2S and MW-10S), and downgradient wells (MW-4S, MW-6S, MW-7S, MW-9S, MW-11S, and MW-12S).

MW-1S, located approximately 150 feet upgradient of the overburden reactors, is not sampled in the fall sampling events. Historically, MW-1S has shown decreasing CVOC concentrations since 2014, though small amounts of DCE and VC are still present (Appendix D).

MW-2S and MW-10S, located near the bioreactors, showed little change in CVOC contamination. MW-2S, located approximately 8 feet north of the bioreactor trenches and immediately south of the former secondary containment excavation, continues to show high CVOC contamination, driven by cis-1,2-DCE concentration of 160,000 μg/L. Low TOC (3.1 mg/L) likely limits the ability to further dechlorinate the cis-1,2-DCE present here.

Downgradient wells MW-11S and MW-12S show a decreasing CVOC trend over the long term, but with little change since 2013. The TCE concentration in MW-12S had been on a general increase since April 2015; however the TCE concentration decreased from 2,300 μg/L (April 2017) to 130 μg/L (October 2017), which was the lowest concentration observed since sampling started at this location in September 2006.

ORP at MW-11S and MW-12S decreased after each bedrock injection event and remains strongly negative (less than -200 mV). ORP has shown slight seasonal variability at MW-11S; MW-12S has shown less variability.

## 5.5 Summary of Biodegradation Observations in Overburden

Although the overburden bioreactor wells have performed well with CVOC concentrations decreasing in most OR wells, further degradation appears to be slowing in other overburden wells. In general, wells with higher CVOC concentrations correspond to higher ORP levels and lower extents of sulfate reduction (which would occur with active bioactivity). TOC also remains low throughout these wells. These conditions reflect the difficulty of electron donors to migrate through the low permeability soil.

However, the presence of appreciable levels of VC and ethene indicate that some biodegradation has occurred and/or such degradation products have migrated from the upgradient active bioreactors.

# 6.0 Bedrock Remediation Performance and Monitoring Results

This section presents the most recent concentrations and data trends for the bedrock wells through the Fall 2017 semi-annual sampling event. Data trends for selected wells are discussed herein. A summary of Fall 2017 analytical data is provided in Table 7. Figures 6A through 6D provide bedrock isoconcentration contours of TCE, cis-1,2-DCE, VC, and total CVOCs (sum of TCE / DCE / VC and TCA / DCA), respectively. Historical analytical data tables for all site overburden wells can be found in Appendix D. Time series plots depicting historical CVOC data for all wells sampled are provided in Appendix E.

## 6.1 Bedrock Groundwater Elevations and Flow Directions

A summary of groundwater elevation data collected October 6, 2017 is provided in Table 3, including location coordinates, top of casing, depth to water and groundwater elevations for the monitoring wells, injection wells, and performance monitoring wells.

Figure 4 presents a bedrock groundwater potentiometric surface contour map based on the October 6, 2017 water level data. Bedrock groundwater was measured at elevations between 575.10 ft AMSL (MW-16D) and 579.07 ft AMSL (INJ-13D). In general groundwater flows to the south; however, there is a localized mounding of bedrock groundwater in the western portion of the bioreactor trench area as represented by INJ-13D.

Downward vertical gradients from overburden to bedrock were typical, with greater relative gradient in the western end of the bioreactor portion of the Site.

## 6.2 Bedrock Bioremediation Performance Summary

The data indicate that there is still continuation of CVOC biodegradation attributed to the November 2012 substrate injection; however, the results over the last year indicate that biodegradation may be slowing at a number of locations (Appendix E). In Fall 2017, TCE concentrations stayed steady or increased in most of the well locations when compared to recent previous results. Wells PMW-2D, PMW-6D, PMW-9D, PMW-10D, and PMW-11D either showed increase in TCE, DCE, and VC or were steady compared to sampling events over recent monitoring events. Wells such as PMW-17D and INJ-7D had decreases in CVOCs compared to the previous sampling event. VC concentrations showed a range of behavior, balancing production from DCE degradation and removal from anaerobic biodegradation. These wells are located within or immediately downgradient of the November 2012 injection locations.

All monitored bedrock wells show increased ethene and ethane concentrations (one to three orders of magnitude) from September 2012 (prior to the November 2012 injections) to October 2017.

DHC concentrations were last sampled April 2017. As of that sampling event, DHC populations (sampled from wells INJ-7D, PMW-2D, PMW-6D, PMW-11D, PMW-15D, PMW-17D, and RMW-2D) had increased one to three orders of magnitude in the bedrock treatment area after the November 2012 injections (Appendix E).

After the injection events, total CVOCs initially increased likely due to the release of CVOCs from DNAPL, sorbed contaminants, and increase in solubility, which is common at injection remediation sites.

Over the long term, ethene and ethane concentrations are proving an important indicator of bioremediation progress at the Site. At multiple locations, ethene and ethane concentrations have increased by orders of magnitude over the last five years, indicating that although the CVOC concentrations are currently higher than baseline conditions in the source area and TCE degradation has started to slow down, biodegradation is continuing in the source area. Additionally, ORP levels remain very low, and sulfate concentrations have been reduced and sulfide levels increased compared to background wells such as MW-18D (an indication of bioactivity) providing further evidence of active biodegradation. Sulfate and sulfide sampling currently occurs annually and was not sampled during the Fall 2017 event. Additional data will be collected in Spring 2018.

## 6.3 Performance Enhancement Testing

Previous sampling results indicated that bedrock remediation was dependent on geochemical conditions. Wells with the highest degradation rates had a pH above approximately 6.5 SU and/or hydrogen sulfide less than approximately 30 mg/L. As discussed in previous reports, tests were conducted during the November 2012 substrate injections to mitigate potential limitations to the performance of the bedrock remediation system. The tests included adding vegetable oil substrate and calcium carbonate buffer (instead of sodium bicarbonate) throughout the 2012 injection area to raise the pH, and adding iron at INJ-7D to remove hydrogen sulfide by precipitating the sulfide with iron. The following observations are relevant to these 2012 injections:

- pH: The additional calcium carbonate appeared to lack sufficient buffering capacity to prevent the initial pH drop (5.5 – 6.0). The pH at all wells in October 2017 has recovered and currently remains above 6.5 SU, with the exception of wells OR-4SM (at 6.45 SU), PMR-2D (at 6.3 SU), and MW-19D (at 6.43 SU).
- TOC: TOC concentrations which measure both added substrate and degradation intermediates, generally stayed above 100 mg/L for bedrock wells in the vicinity of the injections since the November 2012 injection until the April 2017 sampling event; however, several wells currently have TOC concentrations that have decreased below 100 mg/L. As of April 2017, INJ-11D, INJ-13D, MW-7D, PMW-16D, and PMW-17D had TOC concentrations below 100 mg/L. In the October 2017 round of sampling three more locations had TOC concentrations decrease below -100 mg/L (INJ-7D, PMW-8D, and PMW-9D) (Appendix E).
- Iron and Sulfide Concentration: Iron (soluble and mineral sources) was injected into INJ-7D during the November 2012 substrate injection event to precipitate sulfide produced by the anaerobic biodegradation process; sulfide can be toxic to further bacterial growth. This injection resulted in an increase in iron and a decrease in sulfide at INJ-7D and the downgradient wells PMW-9D, PMW-12D, and RMW-2D. Sulfide sampling is completed annually at the Site during the spring sampling events and will be next sampled in Spring 2018. The Spring 2017 data suggest that sulfide concentrations remain elevated in downgradient wells PMW-10D, PMW-15D (sampled in the spring), and other wells farther from the injection location. October 2017 data suggest iron concentrations at these locations continue to deplete, relative to post-2012 injection concentrations, and sulfide concentrations are rebounding. For example, sulfide in RMW-2D has increased from a low of 6.2 mg/L after injection to 190 mg/L in April 2017.

In wells further downgradient (PMW-2D, PMW-6D, PMW-8D, PMW-16D, PMW-17D, RMW-4D, and MW-7D), iron concentrations have remained low, and hydrogen sulfide and DCE concentrations have remained elevated.

- Ethene and Ethane Concentration: In the October 2017 sampling round, ethene and ethane increased in well INJ-7D as well as at more than half the locations downgradient of this well. At several locations concentrations appear to have peaked since the last round of injections. Recent data indicates that at several wells ethene and ethane concentrations had begun to decrease from peak values; but, the October 2017 data for both ethene and ethane showed stable or increasing concentrations downgradient of the source area (INJ-11D, MW-7D, PMW-2D, PMW-6D, PMW-8D PMW-9D, PMW-10D, PMW-16D, RMW-2D, and RMW-4D). The VC concentrations in these wells showed an increase in concentrations with the exception of PMW-8D, PMW-16D, and RMW-2D. Presence of increasing ethene and ethane concentration indicates biodegradation of VC.

As initially reported in the October 2015 semi-annual performance monitoring report, a laboratory treatability study conducted under anoxic conditions was conducted to optimize field treatments to enhance CVOC biodegradation in bedrock at the site. Groundwater samples used for the treatability study were collected in December 2013 from wells PMW-14D and PMW-2D. At the time of sampling, hydrogen sulfide concentrations (159 mg/L and 24.5 mg/L) and/or low pH (6.6 and 6.1) at PMW-2D and PMW-14D respectively, were potentially limiting the biodegradation of chloroethenes. The treatments tested in combination with emulsified vegetable oil (EVO) substrate include: 1) ferrous iron to reduce hydrogen sulfide concentration, 2) ferrous iron with sodium bicarbonate to raise pH, and 3) a combination of sodium bicarbonate, ferrous iron, and nutrients (ammonium chloride and sodium tripolyphosphate). Test bottles that received only EVO served as the untreated active control for comparison.

The results of this study indicate that the injection of organic substrate, ferrous iron, and nutrients in combination with appropriately buffering the pH to approximately 6.5 and above has the potential to enhance the biodegradation of chloroethenes, including DCE to ethene at the site.

## 6.4 Summary of Biodegradation Observations in Bedrock

Biodegradation activities continue in the bedrock as demonstrated by elevated degradation products, low ORP levels, relatively high DHC populations, and continued sulfate depletion. Despite this active bioactivity, CVOC concentrations remain high especially in wells INJ-7D, INJ-11D, INJ-13D, MW-7D, PMW-2D, PMW-8D, PMW-9D, PMW-10D, PMW-12D (not sampled in October 2017), PMW-16D, PMW-17D, RMW-2D, and RMW-4D.

The November 2012 injection of iron has been successful in decreasing sulfide concentrations, but the effect was short-lived and sulfide concentrations have rebounded suggesting that sulfide may be limiting biodegradation. For example, DHC counts in RMW-2D increased two orders of magnitude following iron injection into INJ-7D in November 2012. Since then, they have decreased although they remain above the counts prior to iron injection. In contrast, in INJ-7D itself, sulfide levels remain low and DHC counts remain near their post-iron-injection levels and TCE levels have continued on an overall downward trend.

# 7.0 General Site Conclusions and Anticipated Future Activities

## 7.1 Site Inspections

As part of the Fall 2017 event, the pavement surface conditions above the bioreactor trenches were inspected for settlement, and the protective casings were inspected for integrity. The inspector noted three small areas where minor repairs were necessary. Asphalt patch was used to restore these areas of pavement over the biroreactor trenches.

In addition, the SSD system was inspected in accordance with NYSDEC-approved SSD OM&M Plan. Results from the June 13 and September 22, 2017 quarterly inspections identified that the system was in proper working order. In October 2015, sub-slab vapor samples were collected in accordance with the SSD OM&M Plan to help determine if cessation of operation of the SSD system is feasible. A sub-slab vapor sample was collected in August 2015 with the SSD system running, and in October 2015 with the SSD system shut down for 24 hours prior. Samples were submitted for VOC analysis using EPA Method TO-15. Sampling results for both events were below method detection limits for all constituents of concern. Summary of the SSD sampling activities and recommendations were provided to NYSDEC under letter dated January 26, 2016. The letter requested approval to decommission the SSD; the letter is currently under NYSDEC review.

## 7.2 Overburden Bioreactor

The historical data trends indicate CVOCs are mostly depleted in the bioreactor. The addition of bioremediation treatments to the bioreactor trenches and/or other selected locations with elevated and persistent CVOC concentrations is being considered while monitoring continues. Methane and hydrogen sulfide will continue to be monitored. However, at two locations immediately adjacent to the bioreactors (MW-2S and PMW-5S), concentrations remain high, although significant amounts of VC have been produced. Both these locations have relatively high redox potentials (-70 and -59 mV, respectively) suggesting reduction conditions are not sufficient for further dechlorination.

## 7.3 Bedrock Bioremediation

The data to date continue to suggest that biodegradation is taking place but may be starting to slow down. Further optimization of the system may be needed. The iron injection test demonstrated that sulfide can be effectively controlled in the short term, thus improving CVOC biodegradation. Increasing downgradient concentrations of ethene and ethane, combined with decreasing concentrations of CVOCs downgradient, indicate an overall positive performance of the bedrock remediation system. Sulfide concentrations (last collected April 2017) remain elevated within the source area (e.g., RMW-2D), extending downgradient to wells such as PMW-12D, PMW-16D, PMW-8D and PMW-7D, although they remain low in other wells (e.g., PMW-9D, PMW-10D, and a recent drop in PMW-2D). DCE concentrations are elevated and stable in the wells with elevated sulfide. Supplemental injections are contemplated to optimize the treatment by controlling sulfide concentrations and increasing nutrients. Methane and hydrogen sulfide will continue to be monitored.

# Tables

Table 1
Well Condition Observations and Headspace Readings
Fall 2017 Monitoring Event
Ekonol Polyester Resins Site
Wheatfield , New York

| Well ID | CO (ppm) | H2S (ppm) | Oxygen (%) | LEL (%) | VOCs (ppm) | Well Condition |
|---|---|---|---|---|---|---|
| INJ-01 | 0 | 1 | 20.9 | 0 | 0.2 | Good |
| INJ-02 | 0 | 0 | 20.9 | 0 | 4.0 | Good |
| INJ-03 | 10 | 0 | 19.4 | 6 | 1.2 | Good |
| INJ-04 | 26 | 0 | 20.9 | 9 | 3.2 | Good |
| INJ-05 | 19 | 0 | 20.6 | 0 | 1.6 | Good |
| INJ-06D | 0 | 0 | 17.6 | 0 | 0 | Good |
| INJ-07D | 0 | 0 | 20.9 | 0 | 0 | Good |
| INJ-08D | 0 | 0 | 20.9 | 0 | 0 | Good |
| INJ-09D | 0 | 0 | 20.9 | 0 | 0 | Good |
| INJ-10D | 0 | 0 | 20.2 | HIGH | 0.1 | Good |
| INJ-11D | 0 | 0 | 19.8 | 0 | 0 | Good |
| INJ-12D | 373 | 0 | LOW | HIGH | 1.9 | Good |
| INJ-13D | 0 | 0 | 12.3 | 0 | 0 | Good |
| MW-1S | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-2S | 0 | 0 | 20.9 | 0 | 33.3 | Good |
| MW-3S | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-4S | 0 | 0 | 16.1 | 0 | 0.3 | Good |
| MW-5S | 1 | 0 | 20.9 | 0 | 0 | Good |
| MW-6S | 0 | 0 | 19.1 | 0 | 0 | Good |
| MW-7S | 0 | 1.6 | 20.9 | 0 | 0 | Good |
| MW-7D | 0 | 1.6 | 20.9 | 0 | 0 | Good |
| MW-8S | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-9S | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-10S | 1 | 0 | 19.2 | 0 | 0.1 | Good |
| MW-10D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-11S | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-11D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-12S | 0 | 0 | 17.5 | 0 | 4.7 | Good |
| MW-12D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-13D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-14D | 1 | 0 | 20.9 | 0 | 0 | Good |
| MW-15D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-16D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-17D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-18D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-19D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-20D | 0 | 0 | 20.9 | 0 | 0 | Good |
| MW-21D | 0 | 0 | 20.9 | 0 | 0 | Good |
| OR-1SI | 0 | 0 | 20.9 | 0 | 0 | Good |
| OR-2SI | 0 | 0 | 20.9 | 0 | 0 | Good |
| OR-3SM | 0 | 0 | 15.8 | 35 | 0 | Good |
| OR-4SM | 0 | 0 | 19.0 | 0 | 0 | Good |
| OR-5SM | 0 | HIGH | 19.7 | 33 | 23.2 | Good |
| OR-6SM | 134 | HIGH | 19.4 | 20 | 31.2 | Good |
| OR-7SI | 0 | HIGH | 19.5 | HIGH | 6 | Good |
| OR-8SI | 997 | HIGH | 13.1 | HIGH | 19 | Good |
| OR-9SM | 0 | 0 | 19.9 | 0 | 0 | Good |
| OR-10SM | 0 | HIGH | LOW | HIGH | 4.5 | Good |
| OR-11SI | 0 | 0 | 20.9 | 0 | 0 | Good |
| OR-12SI | 0 | 339 | 18.5 | HIGH | 0 | Good |
| OR-13SM | 0 | 0 | 20.9 | LOW | 0 | Good |

Table 1
Well Condition Observations and Headspace Readings
Fall 2017 Monitoring Event
Ekonol Polyester Resins Site
Wheatfield , New York

| Well ID | CO (ppm) | H2S (ppm) | Oxygen (%) | LEL (%) | VOCs (ppm) | Well Condition |
|---|---|---|---|---|---|---|
| OR-14SM | 2 | HIGH | LOW | LOW | 0.1 | Good |
| OR-15SM | 1 | 9 | 13.7 | HIGH | 0.9 | Good |
| OR-16SI | 2 | HIGH | LOW | HIGH | 0 | Good |
| OR-17SI | 1 | 280 | 17.4 | HIGH | 0.3 | Good |
| OR-18SM | 1 | 58 | 20 | 19 | 0.9 | Good |
| PMW-1S | 0 | 0 | 20.9 | 0 | 0 | Good |
| PMW-1D | 76 | 0 | 18.3 | HIGH | 1.0 | Good |
| PMW-2S | 0 | 0 | 20.9 | 0 | 0 | Good |
| PMW-2D | 23 | 0 | 20.9 | 6 | 104.7 | Good |
| PMW-3S | 0 | 0 | 20.9 | 0 | 0 | Good |
| PMW-3D | 253 | HIGH | LOW | 38 | 10.2 | Good |
| PMW-4S | 0 | 0 | 20.9 | 0 | 0 | Good |
| PMW-4D | 90 | 0 | 19.7 | HIGH | 0.1 | Good |
| PMW-5S | 40 | 0 | 11.0 | HIGH | 42.6 | Good |
| PMW-5D | 230 | 0 | 20.2 | HIGH | 1.8 | Good |
| PMW-6S | 0 | 0 | 20.9 | 0 | 1.4 | Good |
| PMW-6D | 384 | HIGH | LOW | HIGH | 5.2 | Good |
| PMW-7S | 0 | 0 | 20.9 | 0 | 0 | Good |
| PMW-7D | 0 | 0 | 20.9 | 3 | 0 | Good |
| PMW-8S | 0 | 0 | 20.9 | 0 | 0 | Good |
| PMW-8D | 0 | 0 | 20.1 | 0 | 28.7 | Good |
| PMW-9S | 0 | 0 | 18.2 | 0 | 17.7 | Good |
| PMW-9D | 0 | 0 | 20.1 | 5 | 0.1 | Good |
| PMW-10S | 1 | 0 | 20.9 | 0 | 0 | Good |
| PMW-10D | 53 | 0 | 17.5 | 0 | 4.8 | Good |
| PMW-11S | 2 | 0 | 20.2 | 5 | 9.4 | Good |
| PMW-11D | 7 | 0 | 19.1 | 0 | 4.9 | Good |
| PMW-12D | 84 | 0 | 19.6 | 3 | 25.9 | Good |
| PMW-13D | 0 | 0 | 20.9 | 0 | 0 | Good |
| PMW-14D | 0 | 0 | 20.9 | 0 | 5.2 | Good |
| PMW-15D | 0 | 0 | 20.3 | 0 | 0.8 | Good |
| PMW-16D | 150 | 0 | 19.1 | 11 | 23.5 | Good |
| PMW-17D | 0 | 0 | 20.9 | 0 | 0 | Good |
| RMW-1D | 0 | 0 | 18.5 | 0 | 0 | Good |
| RMW-2D | 47 | 0 | 20.0 | HIGH | 1,582 | Good |
| RMW-3D | 0 | HIGH | 20.9 | 0 | 0.3 | Good |
| RMW-4D | 220 | HIGH | 9.0 | HIGH | 5.1 | Good |
| TP-1 | 0 | 0 | 20.9 | 0 | 0 | Good |
| TP-2 | 0 | 0 | 20.9 | 0 | 0 | Good |

Notes: Shaded values indicate detections by the 4-gas and VOC meters.
ppm - parts per million

**Table 2**
**Sample Matrix**
**Fall 2017 Monitoring Event**
**Ekonol Polyester Resins Site**
**Wheatfield, New York**

| Location | Synoptic Water Level Measurement[F/] | VOCs[A/] (SW8260C) | Methane, Ethane, Ethene (RSK SOP-175 Modified)[B/] | Dissolved Inorganics[C/D/] (6010C) | Total Organic Carbon (SW9060A) | Well Head Analyses[E/] |
|---|---|---|---|---|---|---|
| | | Semi-Annual | Semi-Annual | Semi-Annual | Semi-Annual | Semi-Annual |
| Overburden Bioreactor Monitoring Wells | | | | | | |
| OR-4SM | 1 | 1 | 1 | 1 | 1 | 1 |
| OR-6SM | 1 | 1 | 1 | 1 | 1 | 1 |
| OR-10SM | 1 | 1 | 1 | 1 | 1 | 1 |
| OR-14SM | 1 | 1 | 1 | 1 | 1 | 1 |
| OR-18SM | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-1S | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-3S | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-4S | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-6S | 1 | 1 | 1 | 1 | 1 | 1 |
| Bedrock Injection/Withdrawal Wells | | | | | | |
| INJ-7D | 1 | 1 | 1 | 1 | 1 | 1 |
| INJ-11D | 1 | 1 | 1 | 1 | 1 | 1 |
| INJ-13D | 1 | 1 | 1 | 1 | 1 | 1 |
| Bedrock Monitoring Wells | | | | | | |
| PMW-9D | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-10D | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-11D | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-16D | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-17D | 1 | 1 | 1 | 1 | 1 | 1 |
| Pilot Test Wells | | | | | | |
| PMW-1D | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-2D | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-6D | 1 | 1 | 1 | 1 | 1 | 1 |
| RMW-4D | 1 | 1 | 1 | 1 | 1 | 1 |
| PMW-8D | 1 | 1 | 1 | 1 | 1 | 1 |
| MW-7D | 1 | 1 | 1 | 1 | 1 | 1 |
| Site Investigation Wells | | | | | | |
| MW-2S | 1 | 1 | 1 | 1 | 1 | 1 |
| MW-4S | 1 | 1 | 1 | 1 | 1 | 1 |
| MW-10S | 1 | 1 | 1 | | | 1 |
| MW-11S | 1 | 1 | 1 | | | 1 |
| MW-12S | 1 | 1 | 1 | | | 1 |
| RMW-2D | 1 | 1 | 1 | 1 | 1 | 1 |
| RMW-3D | 1 | 1 | 1 | 1 | 1 | 1 |
| MW-11D | 1 | 1 | 1 | | | 1 |
| MW-17D | 1 | 1 | 1 | | | 1 |
| MW-20D | 1 | 1 | 1 | | | 1 |
| MW-21D | 1 | 1 | 1 | | | 1 |
| Investigative Monitoring Wells | | | | | | |
| MW-15D | 1 | 1 | 1 | 1 | 1 | 1 |
| MW-19D | 1 | 1 | 1 | 1 | 1 | 1 |
| MW-13D | 1 | 1 | 1 | 1 | 1 | 1 |
| MW-9S | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | |
| Monitoring Subtotal | 38 | 38 | 38 | 31 | 31 | 38 |
| | | | | | | |
| QA/QC | | | | | | |
| Duplicates | | 2 | 2 | 2 | 2 | |
| Matrix Spike | | 2 | | | | |
| Matix Spike Duplicate | | 2 | | | | |
| Trip Blanks | | 5 | | | | |
| Total per sampling Event: | | 49 | 40 | 33 | 33 | 38 |

**Notes:**

Matrix spike/matrix spike duplicate pair and field duplicates collected at the rate of 1 per 20 samples.

Field duplicates were named blind, using a similar scheme but non-existent well, such as MW-190B or MW-60.

[A/] VOCs = volatile organic compounds, including aromatic and chlorinated aliphatic hydrocarbons.

[B/] Analytical method for dissolved gases will be a laboratory-specific standard operating procedure (RSK-175).

[C/] All metal and cation samples were field filtered and immediately preserved (Fe, K).

[D/] Dissolved inorganic compounds consist of iron (Fe) and potassium (K). Samples were field filtered.

[E/] Well head analyses include dissolved oxygen, oxidation-reduction potential, pH, temperature, electrical conductivity, turbidity and visual appearance.

[F/] All Site water levels were recorded in October 2017.

Table 3
Water Level Measurements
Fall 2017 Monitoring Event
Ekonol Polyester Resins Site
Wheatfield , New York

| Well ID | Elevation Top of Casing | Easting | Northing | 10/6/2017 | |
|---|---|---|---|---|---|
| | | | | Depth to Water (ft btoc) | Groundwater Elevation |
| INJ-01 | 585.70 | 1056172.53 | 1132217.92 | 8.40 | 577.30 |
| INJ-02 | 585.54 | 1056179.53 | 1132230.81 | 7.98 | 577.56 |
| INJ-03 | 585.35 | 1056164.47 | 1132230.97 | 7.65 | 577.70 |
| INJ-04 | 585.58 | 1056185.83 | 1132211.60 | 8.13 | 577.45 |
| INJ-05 | 585.60 | 1056159.24 | 1132212.19 | 7.97 | 577.63 |
| INJ-06D | 585.67 | 1056256.92 | 1132295.04 | 7.81 | 577.86 |
| INJ-07D | 585.89 | 1056227.95 | 1132328.21 | 7.98 | 577.91 |
| INJ-08D | 585.85 | 1056283.56 | 1132319.81 | 7.81 | 578.04 |
| INJ-09D | 585.74 | 1056236.21 | 1132260.58 | 7.68 | 578.06 |
| INJ-10D | 585.24 | 1056280.55 | 1132262.71 | 8.06 | 577.18 |
| INJ-11D | 585.76 | 1056185.26 | 1132328.88 | 7.68 | 578.08 |
| INJ-12D | 585.59 | 1056193.71 | 1132261.54 | 7.86 | 577.73 |
| INJ-13D | 585.78 | 1056199.78 | 1132296.96 | 6.71 | 579.07 |
| MW-1S | 585.06 | 1056192.71 | 1132468.53 | 5.40 | 579.66 |
| MW-2S | 585.11 | 1056254.14 | 1132311.92 | 3.06 | 582.05 |
| MW-3S | 584.83 | 1056317.60 | 1132228.17 | 6.45 | 578.38 |
| MW-4S | 585.79 | 1056183.51 | 1132220.46 | 7.98 | 577.81 |
| MW-5S | 585.66 | 1056429.00 | 1132454.91 | 7.35 | 578.31 |
| MW-6S | 585.64 | 1056266.92 | 1132123.45 | 6.85 | 578.79 |
| MW-7S | 586.46 | 1056161.35 | 1132148.61 | 6.94 | 579.52 |
| MW-7D | 586.16 | 1056173.63 | 1132156.49 | 8.19 | 577.97 |
| MW-8S | 586.19 | 1056062.61 | 1132192.87 | 7.77 | 578.42 |
| MW-9S | 586.10 | 1056094.38 | 1132273.82 | 7.02 | 579.08 |
| MW-10S | 585.77 | 1056442.61 | 1132303.24 | 6.42 | 579.35 |
| MW-10D | 585.47 | 1055990.20 | 1132241.44 | 7.81 | 577.66 |
| MW-11S | 586.00 | 1056372.98 | 1132005.83 | 7.98 | 578.02 |
| MW-11D | 588.42 | 1056434.68 | 1132119.94 | 10.62 | 577.80 |
| MW-12S | 586.11 | 1056235.49 | 1132057.93 | 8.02 | 578.09 |
| MW-12D | 585.85 | 1055849.97 | 1132286.53 | 8.33 | 577.52 |
| MW-13D | 587.89 | 1056401.65 | 1131373.46 | 11.22 | 576.67 |
| MW-14D | 587.70 | 1056477.88 | 1132399.34 | 9.72 | 577.98 |
| MW-15D | 585.76 | 1055873.33 | 1131333.59 | 9.39 | 576.37 |
| MW-16D | 586.96 | 1056393.84 | 1131176.05 | 11.86 | 575.10 |
| MW-17D | 587.31 | 1056444.40 | 1131980.99 | 9.73 | 577.58 |
| MW-18D | 587.07 | 1056621.36 | 1132083.84 | 9.17 | 577.90 |
| MW-19D | 585.44 | 1055674.08 | 1131339.31 | 8.49 | 576.95 |
| MW-20D | 586.17 | 1056045.44 | 1131530.44 | 8.80 | 577.37 |
| MW-21D | 585.90 | 1055862.75 | 1131532.09 | 8.64 | 577.26 |
| OR-1SI | 585.80 | 1056211.28 | 1132307.96 | 2.78 | 583.02 |
| OR-2SI | 585.61 | 1056221.00 | 1132286.30 | 4.11 | 581.50 |
| OR-3SM | 585.81 | 1056238.75 | 1132303.07 | 2.94 | 582.87 |
| OR-4SM | 585.70 | 1056237.61 | 1132286.58 | 4.13 | 581.57 |
| OR-5SM | 585.73 | 1056264.58 | 1132305.39 | 2.75 | 582.98 |
| OR-6SM | 585.74 | 1056264.08 | 1132285.79 | 7.55 | 578.19 |
| OR-7SI | 585.76 | 1056281.74 | 1132304.69 | 2.75 | 583.01 |
| OR-8SI | 585.70 | 1056281.88 | 1132285.61 | 7.47 | 578.23 |
| OR-9SM | 585.69 | 1056317.88 | 1132305.78 | 6.77 | 578.92 |
| OR-10SM | 585.57 | 1056322.03 | 1132285.34 | 7.20 | 578.37 |
| OR-11SI | 585.91 | 1056339.81 | 1132305.64 | 6.86 | 579.05 |
| OR-12SI | 585.63 | 1056340.88 | 1132285.72 | 7.19 | 578.44 |
| OR-13SM | 585.80 | 1056357.56 | 1132303.89 | 6.92 | 578.88 |
| OR-14SM | 585.68 | 1056359.10 | 1132284.59 | 7.29 | 578.39 |
| OR-15SM | 585.85 | 1056405.58 | 1132304.29 | 6.67 | 579.18 |

Table 3
Water Level Measurements
Fall 2017 Monitoring Event
Ekonol Polyester Resins Site
Wheatfield , New York

| Well ID | Elevation Top of Casing | Easting | Northing | 10/6/2017 | |
|---|---|---|---|---|---|
| | | | | Depth to Water (ft btoc) | Groundwater Elevation |
| OR-16SI | 585.74 | 1056408.53 | 1132289.87 | 6.93 | 578.81 |
| OR-17SI | 585.74 | 1056407.40 | 1132314.38 | 6.73 | 579.01 |
| OR-18SM | 585.51 | 1056425.90 | 1132308.77 | 6.48 | 579.03 |
| PMW-1S | 586.01 | 1056275.66 | 1132313.81 | 2.75 | 583.26 |
| PMW-1D | 585.66 | 1056173.74 | 1132291.16 | 8.12 | 577.54 |
| PMW-2S | 585.75 | 1056264.68 | 1132299.07 | 3.22 | 582.53 |
| PMW-2D | 585.85 | 1056180.62 | 1132220.74 | 7.86 | 577.99 |
| PMW-3S | 585.67 | 1056264.01 | 1132279.87 | 6.85 | 578.82 |
| PMW-3D | 585.98 | 1056172.04 | 1132210.57 | 9.22 | 576.76 |
| PMW-4S | 585.48 | 1056260.67 | 1132263.59 | 5.59 | 579.89 |
| PMW-4D | 585.73 | 1056156.77 | 1132199.23 | 8.01 | 577.72 |
| PMW-5S | 585.84 | 1056236.26 | 1132295.37 | 4.50 | 581.34 |
| PMW-5D | 585.73 | 1056200.45 | 1132209.88 | 8.00 | 577.73 |
| PMW-6S | 585.57 | 1056236.48 | 1132279.64 | 6.89 | 578.68 |
| PMW-6D | 585.86 | 1056187.65 | 1132197.91 | 11.44 | 574.42 |
| PMW-7S | 585.62 | 1056318.31 | 1132297.88 | 7.42 | 578.20 |
| PMW-7D | 585.82 | 1056171.23 | 1132181.82 | 8.26 | 577.56 |
| PMW-8S | 585.64 | 1056319.11 | 1132277.98 | 7.31 | 578.33 |
| PMW-8D | 585.46 | 1056158.56 | 1132222.87 | 7.72 | 577.74 |
| PMW-9S | 585.76 | 1056358.19 | 1132295.53 | 8.00 | 577.76 |
| PMW-9D | 585.92 | 1056208.44 | 1132275.49 | 8.42 | 577.50 |
| PMW-10S | 585.53 | 1056359.62 | 1132277.02 | 6.83 | 578.70 |
| PMW-10D | 585.68 | 1056257.10 | 1132275.14 | 8.00 | 577.68 |
| PMW-11S | 585.71 | 1056413.36 | 1132305.16 | 6.55 | 579.16 |
| PMW-11D | 585.76 | 1056311.43 | 1132273.20 | 7.85 | 577.91 |
| PMW-12D | 585.87 | 1056205.69 | 1132244.92 | 8.03 | 577.84 |
| PMW-13D | 585.68 | 1056235.09 | 1132247.22 | 7.76 | 577.92 |
| PMW-14D | 585.79 | 1056257.22 | 1132247.18 | 8.36 | 577.43 |
| PMW-15D | 585.63 | 1056279.65 | 1132246.82 | 7.81 | 577.82 |
| PMW-16D | 585.49 | 1056232.42 | 1132218.93 | 7.91 | 577.58 |
| PMW-17D | 585.77 | 1056255.43 | 1132226.60 | 8.08 | 577.69 |
| RMW-1D | 585.93 | 1056171.00 | 1132461.00 | 7.81 | 578.12 |
| RMW-2D | 586.14 | 1056235.00 | 1132291.00 | Blocked at 6.80 | <579.34 |
| RMW-3D | 586.01 | 1056302.00 | 1132214.00 | 8.07 | 577.94 |
| RMW-4D | 585.76 | 1056171.69 | 1132203.28 | 8.24 | 577.52 |
| TP-1 | NA | NA | NA | 6.24 | NA |
| TP-2 | NA | NA | NA | 6.40 | NA |

Notes:
ft btoc - feet below top of casing
NA - not applicable

Table 4
Summary of Groundwater Sampling
Fall 2017 Monitoring Event
Ekonol Polyester Resins Site
Wheatfield , New York

| Well ID | Date Sampled | Volume Purged (gallons) |
|---|---|---|
| Overburden Bioreactor Monitoring Wells | | |
| OR-4SM | 10/11/2017 | 5.5 |
| OR-6SM | 10/10/2017 | 3.5 |
| OR-10SM | 10/10/2017 | 7.0 |
| OR-14SM | 10/10/2017 | 3.0 |
| OR-18SM | 10/11/2017 | 3.5 |
| PMW-1S | 10/11/2017 | 3.0 |
| PMW-3S | 10/12/2017 | 4.0 |
| PMW-4S | 10/10/2017 | 3.0 |
| PMW-6S | 10/11/2017 | 1.5 |
| Bedrock Injection/Withdrawal Wells | | |
| INJ-7D | 10/9/2017 | 15.0 |
| INJ-11D | 10/9/2017 | 13.0 |
| INJ-13D | 10/12/2017 | 11.5 |
| Bedrock Monitoring Wells | | |
| PMW-9D | 10/12/2017 | 8.25 |
| PMW-10D | 10/12/2017 | 4.5 |
| PMW-11D | 10/11/2017 | 7.5 |
| PMW-16D | 10/13/2017 | 7.0 |
| PMW-17D | 10/11/2017 | 4.0 |
| Pilot Test Wells | | |
| PMW-1D | 10/12/2017 | 6.5 |
| PMW-2D | 10/12/2017 | 5.0 |
| PMW-6D | 10/11/2017 | 3.25 |
| RMW-4D | 10/13/2017 | 3.0 |
| PMW-8D | 10/12/2017 | 3.0 |
| MW-7D | 10/13/2017 | 7.5 |
| Site Investigation Wells | | |
| MW-2S | 10/12/2017 | 1.5 |
| MW-4S | 10/11/2017 | 2.0 |
| MW-10S | 10/10/2017 | 4.0 |
| MW-11S | 10/10/2017 | 2.0 |
| MW-12S | 10/10/2017 | 4.0 |
| RMW-2D | 10/13/2017 | 2.5 |
| RMW-3D | 10/10/2017 | 4.0 |
| MW-11D | 10/9/2017 | 3.0 |
| MW-17D | 10/9/2017 | 2.0 |
| MW-20D | 10/9/2017 | 3.0 |
| MW-21D | 10/9/2017 | 7.5 |
| Investigative Monitoring Wells | | |
| MW-15D | 10/10/2017 | 4.0 |
| MW-19D | 10/10/2017 | 4.5 |
| MW-13D | 10/9/2017 | 2.5 |
| MW-9S | 10/13/2017 | 5.0 |

Table 5
Groundwater Sampling Field Parameter Results
Fall 2017 Sampling Event
Ekonol Polyester Resins Site
Wheatfield , New York

| Monitoring Well ID | Sample Date | Temperature (deg C) | Specific Conductivity (mS/cm) | Dissolved Oxygen (mg/L) | pH (standard units) | ORP (mV) | Turbidity (NTU) |
|---|---|---|---|---|---|---|---|
| Overburden Bioreactor Monitoring Wells | | | | | | | |
| OR-4SM | 10/11/2017 | 17.47 | 4.261 | 0.39 | 6.45 | -253.3 | 4.09 |
| OR-6SM | 10/10/2017 | 20.80 | 5.670 | 0.33 | 6.71 | -424.0 | 3.45 |
| OR-10SM | 10/10/2017 | 18.94 | 2.812 | 0.39 | 6.51 | -276.4 | 7.63 |
| OR-14SM | 10/10/2017 | 20.70 | 0.630 | 0.56 | 12.54 | -397.6 | 1.46 |
| OR-18SM | 10/11/2017 | 15.30 | 1.670 | 2.29 | 6.81 | -292.7 | 5.01 |
| PMW-1S | 10/11/2017 | 17.00 | 4.700 | 0.26 | 6.60 | -382.2 | 1.54 |
| PMW-3S | 10/12/2017 | 17.10 | 4.970 | 0.16 | 6.53 | -368.8 | 11.50 |
| PMW-4S | 10/10/2017 | 18.30 | 0.820 | 0.66 | 7.08 | -302.0 | 1.59 |
| PMW-6S | 10/11/2017 | 16.63 | 4.202 | 0.71 | 6.53 | -165.9 | 5.36 |
| Bedrock Injection/Withdrawal Wells | | | | | | | |
| INJ-7D | 10/9/2017 | 16.42 | 1.166 | 0.32 | 6.81 | -32.7 | 4.99 |
| INJ-11D | 10/9/2017 | 15.60 | 3.310 | 0.01 | 6.79 | -324.3 | 7.10 |
| INJ-13D | 10/12/2017 | 14.70 | 2.810 | 0.10 | 6.94 | -389.3 | 7.20 |
| Bedrock Monitoring Wells | | | | | | | |
| PMW-9D | 10/12/2017 | 15.42 | 3.932 | 4.02 | 6.63 | -39.5 | equipment malfunction |
| PMW-10D | 10/12/2017 | 16.50 | 2.250 | 0.05 | 6.29 | -411.3 | 6.95 |
| PMW-11D | 10/11/2017 | 15.03 | 1.655 | 1.08 | 7.06 | -271.6 | 1.46 |
| PMW-16D | 10/13/2017 | 15.80 | 2.300 | 0.20 | 7.04 | -379.5 | 0.51 |
| PMW-17D | 10/11/2017 | 15.91 | 0.292 | 0.65 | 7.84 | -71.0 | 9.23 |
| Pilot Test Wells | | | | | | | |
| PMW-1D | 10/12/2017 | 15.49 | 3.778 | 1.95 | 7.10 | -132.8 | 27.8 |
| PMW-2D | 10/12/2017 | 16.63 | 5.369 | 4.720 | 6.30 | -315.5 | 4.73 |
| PMW-6D | 10/11/2017 | 14.60 | 5.180 | 0.19 | 6.71 | -363.3 | 11.30 |
| RMW-4D | 10/13/2017 | 15.84 | 3.951 | 0.97 | 6.64 | -319.6 | 3.00 |
| PMW-8D | 10/12/2017 | 16.37 | 4.995 | 0.27 | 6.67 | -344.0 | 2.74 |
| MW-7D | 10/13/2017 | 16.71 | 4.070 | 1.45 | 6.90 | -334.7 | 3.23 |
| Site Investigation Wells | | | | | | | |
| MW-2S | 10/12/2017 | 18.70 | 5.170 | 0.28 | 6.86 | -259.2 | 1.95 |
| MW-4S | 10/11/2017 | 16.00 | 5.640 | 0.46 | 6.77 | -389.1 | 0.79 |
| MW-10S | 10/10/2017 | 16.10 | 1.819 | 0.40 | 6.92 | -59.2 | 1.00 |
| MW-11S | 10/10/2017 | 16.57 | 5.357 | 0.38 | 6.77 | -215.4 | 1.23 |
| MW-12S | 10/10/2017 | 17.76 | 4.790 | 0.25 | 6.58 | -285.7 | 7.63 |
| RMW-2D | 10/13/2017 | 16.40 | 2.540 | 0.32 | 6.74 | -376.2 | 2.43 |
| RMW-3D | 10/10/2017 | 15.90 | 1.580 | 0.59 | 7.16 | -387.3 | 0.76 |
| MW-11D | 10/9/2017 | 14.30 | 2.240 | 0.21 | 6.94 | -242.5 | 0.30 |
| MW-17D | 10/9/2017 | 13.80 | 2.080 | 0.16 | 6.90 | -240.2 | 0.15 |
| MW-20D | 10/9/2017 | 17.00 | 3.310 | 0.06 | 6.71 | -317.7 | 0.55 |
| MW-21D | 10/9/2017 | 16.35 | 1.833 | 0.31 | 7.10 | -17.9 | 1.64 |
| Investigative Monitoring Wells | | | | | | | |
| MW-15D | 10/10/2017 | 15.70 | 2.230 | 0.81 | 7.09 | -361.9 | 0.46 |
| MW-19D | 10/10/2017 | 16.37 | 5.474 | 0.34 | 6.43 | -6.8 | 1.91 |
| MW-13D | 10/9/2017 | 13.30 | 4.170 | 0.12 | 6.58 | -288.7 | 0.22 |
| MW-9S | 10/13/2017 | 17.40 | 5.190 | 0.76 | 6.93 | -316.5 | 1.83 |

Notes: mS/cm - milliSiemen per centimeter
mg/L - milligram per liter
mV - millivolt
NTU - nephelometric turbidity unit
ORP - oxidation-reduction potential
NM - Not Measured

**Table 6**
**Summary of Analytical Specifications**
**Fall 2017 Monitoring Event**
**Ekonol Polyester Resins Site**
**Wheatfield, New York**

| Sample Type | Container Type | Sample Volume | Preservation Method | Max. Holding Time | Analytical Method |
|---|---|---|---|---|---|
| **Constituents of Concern** | | | | | |
| Select VOCs | 40 mL glass vial with septum top | 3x40 mL | Hydrochloric acid, Cool 4°C | 14 days | SW846 Method 8260C |
| **Natural Attenuation Parameters** | | | | | |
| Methane, Ethene, Ethane | 40 mL glass vial with septum top | 2x40 mL | Hydrochloric acid, Cool 4°C | 14 days | USEPA RSK SOP-175 Modified |
| TOC | 40 mL glass vial with septum top | 2x40 mL | Sulfuric acid, Cool 4°C | 28 days | SW846 Method 9060A |
| Dissolved Metals* | 500 mL plastic | 500 mL | Nitric Acid | 6 months | USEPA 6010C |

**Notes:**
VOC - volatile organic compound
TOC - total organic carbon
*Iron and Potassium
mL - milliliter
L - liter

Table 7
Monitoring Well Groundwater Analytical Result Summary - Fall 2016
Ekonol Polyester Resins Site
Wheatfield, New York

| Parameter | Criteria[1] | INJ- 7D | INJ-11D | INJ-13D | MW- 2S | MW- 4S | MW- 7D | MW- 9S | MW-10S | MW-11D | MW-11S | MW-12S | MW-13D | MW-15D | MW-17D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | | | | | | | | | | | | | | | |
| PCE (µg/L) | 5 | 2500 U | 500 U | 500 U | 5000 U | 100 U | 1000 U | 1.0 U | 10 U | 1.7 U | 2.0 U | 40 U | 13 U | 10 U | 1.3 U |
| TCE (µg/L) | 5 | 120000 | 1400 | 2100 | 5000 U | 100 U | 1000 U | 1.0 U | 4.4 J | 2.3 | 1.1 J | 130 | 13 U | 10 U | 1.8 |
| Cis-1,2-DCE (µg/L) | 5 | 180000 | 20000 | 15000 | 160000 | 4000 | 23000 | 1.0 U | 240 | 25 | 88 | 780 | 240 | 190 | 24 |
| Trans-1,2-DCE (µg/L) | 5 | 2500 U | 500 U | 500 U | 5000 U | 100 U | 1000 U | 1.0 U | 10 U | 0.94 J | 2.7 | 37 J | 13 U | 3.1 J | 0.81 J |
| 1,1-DCE (µg/L) | 5 | 2500 U | 500 U | 500 U | 5000 U | 100 U | 1000 U | 1.0 U | 10 U | 1.2 J | 2.0 U | 40 U | 13 U | 10 U | 1.3 |
| Vinyl Chloride (µg/L) | 2 | 6200 | 2700 | 1900 | 17000 | 2000 | 4200 | 1.0 U | 48 | 3 | 82 | 660 | 650 | 350 | 70 |
| 1,1,1-Trichloroethane (µg/L) | 5 | 2500 U | 500 U | 500 U | 5000 U | 100 U | 1000 U | 1.0 U | 10 U | 110 D | 2.0 U | 40 U | 13 U | 54 | 78 D |
| 1,1-Dichloroethane (µg/L) | 5 | 2500 U | 500 U | 500 U | 5000 U | 100 U | 270 J | 1.0 U | 10 U | 40 | 7 | 20 J | 14 | 22 | 28 |
| Chloroethane (µg/L) | 5 | 2500 U | 500 U | 500 U | 5000 U | 100 U | 1000 U | 1.0 U | 10 U | 1.7 U | 2.0 U | 40 U | 13 U | 10 U | 1.6 |
| Dissolved Metals | | | | | | | | | | | | | | | |
| Dissolved Iron (mg/L) | -- | 7.1 | 1 | 1 | 4 | 0.26 | 0.100 U | 0.99 | NA | NA | NA | NA | 0.100 U | 0.25 | NA |
| Dissolved Potassium (mg/L) | -- | 6.5 | 11 | 7.6 | 3.2 J | 6.7 | 6.4 | 5.5 | NA | NA | NA | NA | 6.6 | 5 U | NA |
| Dissolved Gases | | | | | | | | | | | | | | | |
| Ethane (µg/L) | -- | 12 | 79 | 180 | 20 | 17 | 26 | 1.0 U | 1.5 | 12 | 2.6 | 43 | 9.8 | 0.2 J | 2.7 |
| Ethene (µg/L) | -- | 1000 | 780 | 1800 | 120 | 130 | 480 | 1.0 U | 9.9 | 20 | 85 | 820 | 160 | 4 | 23 |
| Methane (µg/L) | -- | 980 | 10000 D | 14000 D | 410 | 2500 | 7800 D | 14 | 77 | 440 | 550 | 4100 D | 2500 | 45 | 460 |
| Miscellaneous Parameters | | | | | | | | | | | | | | | |
| TOC (mg/L) | -- | 54 | 29 | 65 | 3.1 | 6 | 53 | 5.1 | NA | NA | NA | NA | 3.1 | 2.4 | NA |
| pH (s.u.) | -- | 6.81 | 6.79 | 6.94 | 6.86 | 6.77 | 6.90 | 6.93 | 6.92 | 6.94 | 6.77 | 6.58 | 6.58 | 7.09 | 6.90 |

See Page 3 of 3 for notes.

Table 7
Monitoring Well Groundwater Analytical Result Summary - Fall 2016
Ekonol Polyester Resins Site
Wheatfield, New York

| Parameter | Criteria[1] | MW-19D | MW-20D | MW-21D | OR- 4SM | OR- 6SM | OR-10SM | OR-14SM | OR-18SM | PMW- 1D | PMW- 1S | PMW- 2D | PMW- 3S | PMW- 4S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | | | | | | | | | | | | | | |
| PCE (µg/L) | 5 | 1.0 U | 10 U | 17 U | 1.0 U | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 1.0 U | 5.0 U | 1000 U | 200 U | 25 U |
| TCE (µg/L) | 5 | 1.0 U | 5.9 J | 17 U | 1.0 U | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 1.0 U | 1.9 J | 1200 | 200 U | 25 U |
| Cis-1,2-DCE (µg/L) | 5 | 6.8 | 110 | 710 | 1.0 U | 93 J | 91 | 0.79 J | 230 | 1.2 | 110 | 65000 D | 4300 | 860 |
| Trans-1,2-DCE (µg/L) | 5 | 0.45 J | 7.2 J | 17 U | 1.9 | 9.5 J | 3.5 J | 1.0 U | 10 U | 0.31 J | 8.2 | 1000 U | 120 J | 14 J |
| 1,1-DCE (µg/L) | 5 | 1.0 U | 5.6 J | 17 U | 1.0 U | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 1.0 U | 5.0 U | 1000 U | 200 U | 25 U |
| Vinyl Chloride (µg/L) | 2 | 1.0 U | 430 | 610 | 1.0 U | 24 J | 120 | 1.8 | 90 | 28 | 140 | 23000 | 1500 | 150 |
| 1,1,1-Trichloroethane (µg/L) | 5 | 1.0 U | 550 | 38 | 1.0 U | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 1.0 U | 5.0 U | 1000 U | 200 U | 25 U |
| 1,1-Dichloroethane (µg/L) | 5 | 1.0 U | 75 | 23 | 0.53 J | 4.0 UJ | 2.7 J | 1.0 U | 10 U | 0.74 J | 5.0 U | 1000 U | 200 U | 25 U |
| Chloroethane (µg/L) | 5 | 1.0 U | 10 U | 17 U | 1.0 U | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 2.9 | 5.0 U | 1000 U | 200 U | 25 U |
| Dissolved Metals | | | | | | | | | | | | | | |
| Dissolved Iron (mg/L) | -- | 2.1 | NA | NA | 15 | 0.21 | 0.44 | 1.5 | 0.100 U | 64 | 1 | 1.5 | 0.52 | 1.3 |
| Dissolved Potassium (mg/L) | -- | 5.2 | NA | NA | 21 | 19 | 5 U | 5 U | 7.7 | 9.4 | 12 | 11 | 7.6 | 5 U |
| Dissolved Gases | | | | | | | | | | | | | | |
| Ethane (µg/L) | -- | 0.25 J | 8.8 | 1.7 | 2.1 J | 59 J | 34 | 4.5 | 6.6 | 320 | 28 | 120 | 56 | 10 |
| Ethene (µg/L) | -- | 1.0 U | 250 | 31 | 5.0 UJ | 96 J | 120 | 11 | 36 | 210 | 280 | 7200 | 460 | 25 |
| Methane (µg/L) | -- | 22 | 1600 | 200 | 6600 J | 4800 DJ | 6900 D | 4000 | 7500 | 15000 D | 7400 | 9100 D | 9100 D | 1000 |
| Miscellaneous Parameters | | | | | | | | | | | | | | |
| TOC (mg/L) | -- | 5.8 | NA | NA | 41 | 36 | 15 | 5.6 | 5.6 | 460 | 9.8 | 400 | 6.3 | 7.4 |
| pH (s.u.) | -- | 6.43 | 6.71 | 7.10 | 6.45 | 6.71 | 6.51 | 12.54 [2] | 6.81 | 7.10 | 6.60 | 6.30 | 6.53 | 7.08 |

See Page 3 of 3 for notes.

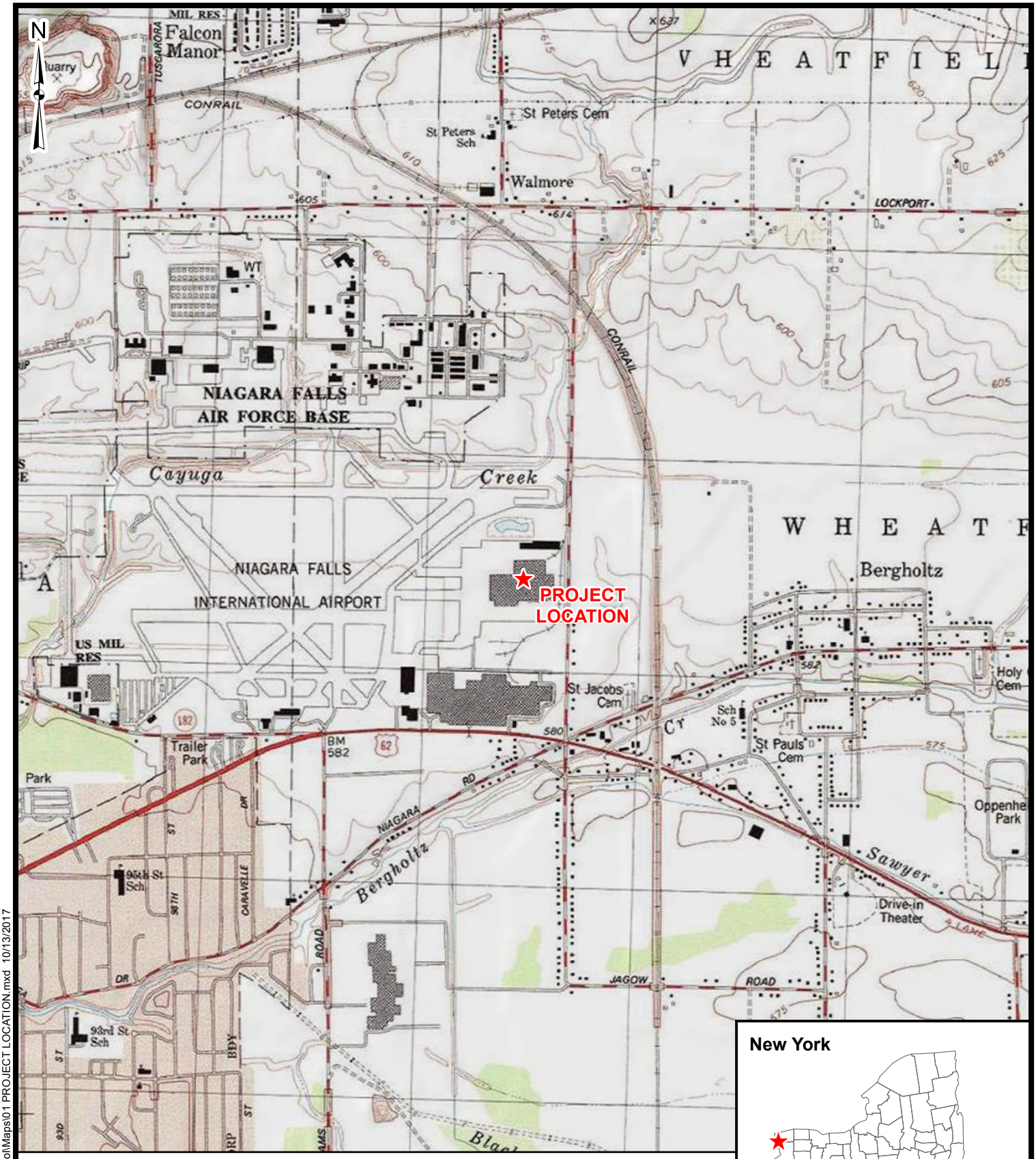
Table 7
Monitoring Well Groundwater Analytical Result Summary - Fall 2016
Ekonol Polyester Resins Site
Wheatfield, New York

| Parameter | Criteria[1] | PMW- 6D | PMW- 6S | PMW- 8D | PMW- 9D | PMW-10D | PMW-11D | PMW-16D | PMW-17D | RMW- 2D | RMW- 3D | RMW- 4D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | | | | | | | | | | | | |
| PCE (µg/L) | 5 | 400 U | 100 U | 1000 U | 2000 U | 500 U | 30 J | 1000 U | 1.0 U | 5000 U | 200 U | 100 U |
| TCE (µg/L) | 5 | 130 J | 100 U | 12000 | 12000 | 1400 | 490 | 950 J | 0.81 J | 120000 | 200 U | 93 J |
| Cis-1,2-DCE (µg/L) | 5 | 9300 | 1800 | 41000 | 62000 | 18000 | 4500 | 37000 | 7.4 | 95000 | 1200 | 4500 |
| Trans-1,2-DCE (µg/L) | 5 | 400 U | 100 | 1000 U | 2000 U | 500 U | 100 U | 1000 U | 1.0 U | 5000 U | 200 U | 55 J |
| 1,1-DCE (µg/L) | 5 | 400 U | 100 U | 1000 U | 2000 U | 500 U | 270 | 1000 U | 1.0 U | 5000 U | 200 U | 100 U |
| Vinyl Chloride (µg/L) | 2 | 3600 | 3700 | 4500 | 8900 | 6200 | 430 | 7600 | 15 | 5000 U | 200 | 5800 |
| 1,1,1-Trichloroethane (µg/L) | 5 | 400 U | 100 U | 1000 U | 2000 U | 500 U | 13000 D | 5300 | 14 | 5000 U | 4100 | 100 U |
| 1,1-Dichloroethane (µg/L) | 5 | 400 U | 100 U | 1000 U | 2000 U | 220 J | 310 | 610 J | 3 | 5000 U | 100 J | 100 U |
| Chloroethane (µg/L) | 5 | 400 U | 100 U | 1000 U | 2000 U | 500 U | 100 U | 1000 U | 1.0 U | 5000 U | 200 U | 100 U |
| Dissolved Metals | | | | | | | | | | | | |
| Dissolved Iron (mg/L) | -- | 0.100 U | 4 | 0.100 U | 33 | 21 | 0.13 | 0.100 U | 1.1 | 0.100 U | 0.17 | 0.100 U |
| Dissolved Potassium (mg/L) | -- | 9.1 | 11 | 6.7 | 11 | 3.7 J | 5 U | 5 U | 5 U | 4.8 J | 5 U | 5.3 |
| Dissolved Gases | | | | | | | | | | | | |
| Ethane (µg/L) | -- | 25 J | 15 | 33 | 220 | 130 | 2.6 | 34 | 0.62 J | 60 | 0.84 J | 43 |
| Ethene (µg/L) | -- | 1200 J | 180 | 780 | 3800 | 8400 D | 21 | 840 | 7 | 180 | 3 | 2000 |
| Methane (µg/L) | -- | 12000 J | 5300 | 6800 D | 11000 D | 10000 D | 230 | 2800 | 360 | 430 | 40 | 8800 D |
| Miscellaneous Parameters | | | | | | | | | | | | |
| TOC (mg/L) | -- | 260 | 21 | 79 | 66 | 320 | 2.8 | 41 | 9.7 | 190 | 3.3 | 77 |
| pH (s.u.) | -- | 6.71 | 6.53 | 6.67 | 6.63 | 6.29 | 7.06 | 7.04 | 7.84 | 6.74 | 7.16 | 6.64 |

Notes:
1. NYSDEC TOGS (1,1,1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, April 2000, Glass GA.
2. High pH on OR-14SM possibly due to probe malfunction.

µg/L - micrograms per liter
mg/L - milligrams per liter
s.u. - standard units
NA - Not Analyzed
J - The reported concentration is an estimated value.
D - Result reported from a secondary dilution analysis.
U - Not detected above the reporting limit.
UJ - Not detected. The reporting limit is an estimated value.

# Figures




J:\Projects\60481767_BPIP\MISC\GIS\Ekonol\Maps\01 PROJECT LOCATION.mxd 10/13/2017

AECOM

EKONOL POLYESTER RESINS SITE
WHEATFIELD, NEW YORK
PROJECT LOCATION PLAN

FIGURE 1

N

BUILDING NO. 4

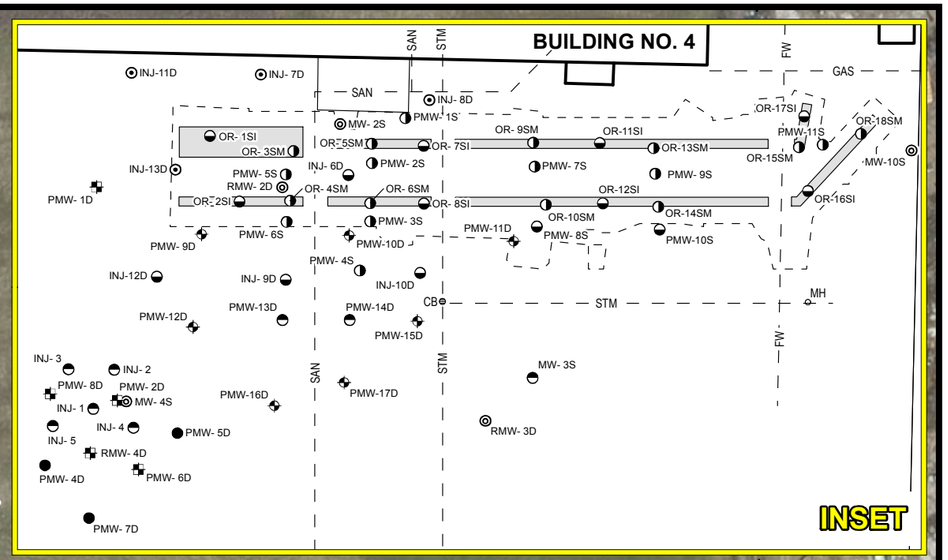
SAINT-GOBAIN ABRASIVES BUILDING

BUILDING NO. 5

WALMORE RD

MW- 1S
RMW- 1D
MW- 5S
MW-14D
MW-12D
MW- 9S
MW-10D
MW- 8S
MW- 7S
MW- 7D
MW- 6S
MW-11D
MW-18D
MW-12S
MW-11S
MW-17D
MW-21D
MW-20D
MW-13D
MW-19D
MW-15D
MW-16D

SEE INSET




## Legend

- Overburden Bioreactor Monitoring Well
- Bedrock Injection/Withdrawal Well
- Bedrock Monitoring Well
- Pilot Test Well
- Site Investigation Well
- Investigative Monitoring Well
- New Boring Well (Post-2010)
- Old Boring Well (Pre-2010)
- Replacement Bedrock Investigation Well

Source: ESRI World Imagery

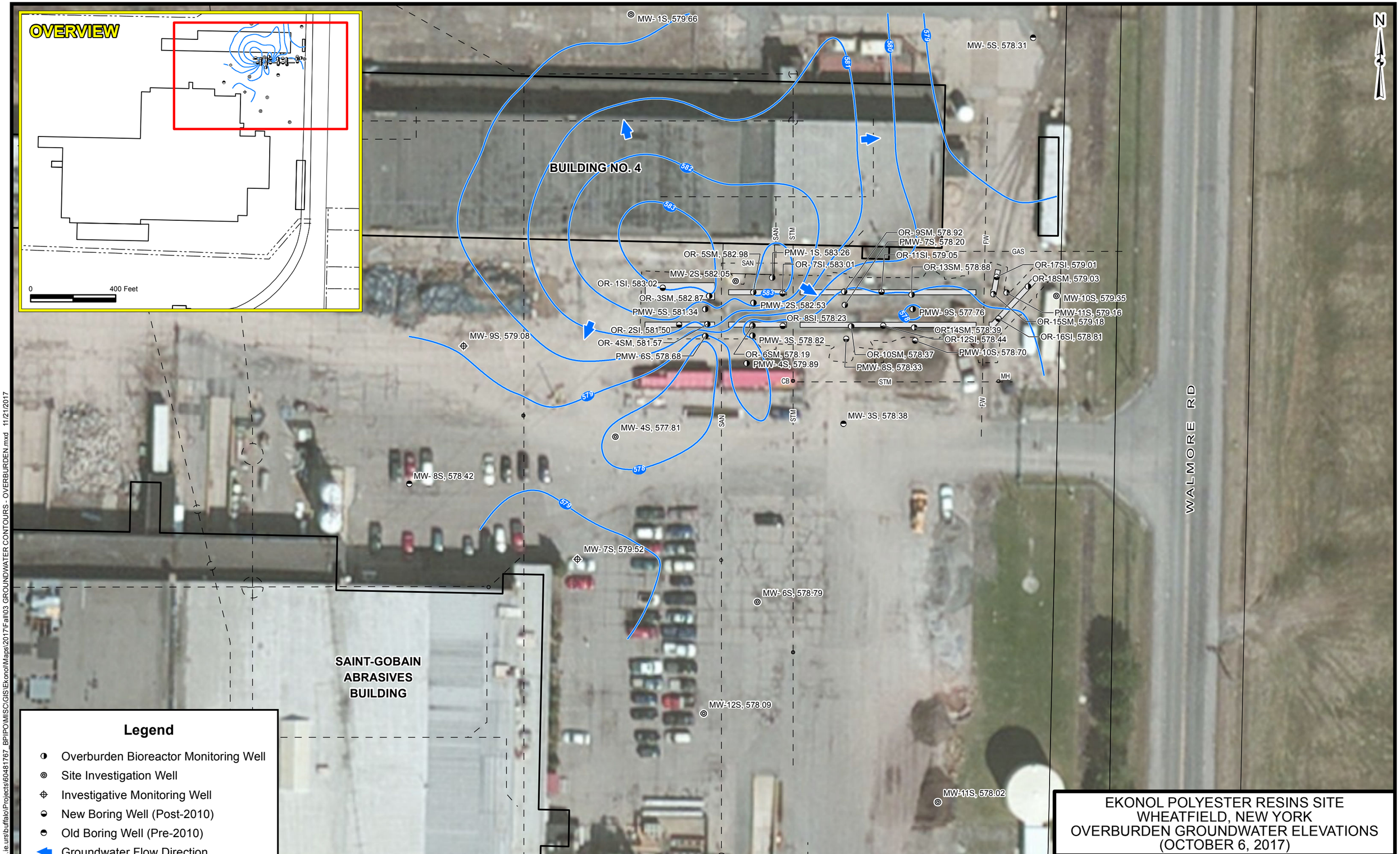
150 0 150 Feet

EKONOL POLYESTER RESINS SITE
WHEATFIELD, NEW YORK
SITE PLAN

AECOM

FIGURE 2

J:\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\02 SITE PLAN.mxd 10/13/2017




## Legend

- Overburden Bioreactor Monitoring Well
- Site Investigation Well
- Investigative Monitoring Well
- New Boring Well (Post-2010)
- Old Boring Well (Pre-2010)
- Groundwater Flow Direction
- Groundwater Elevation Contour

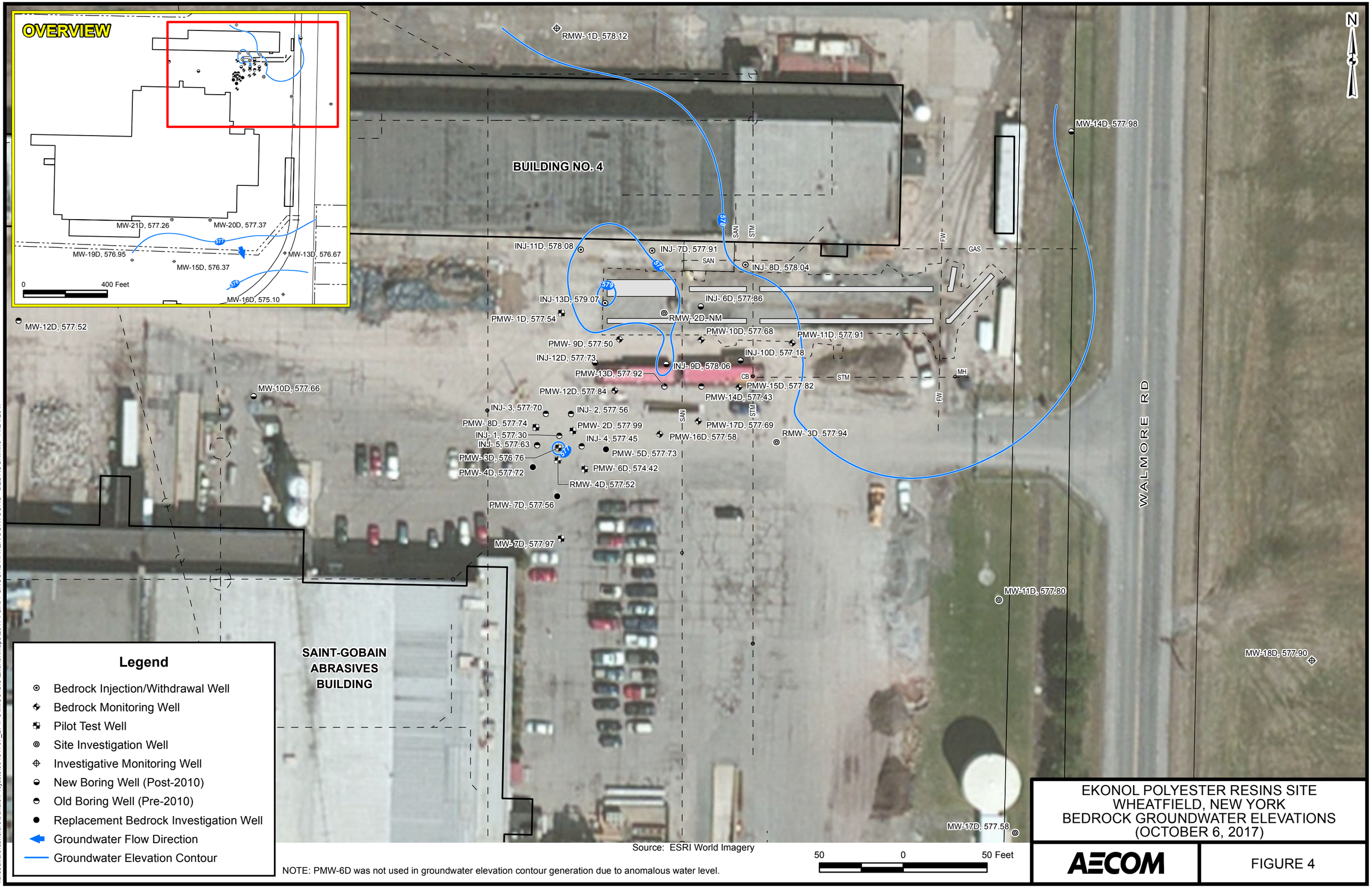
Source: ESRI World Imagery

# EKONOL POLYESTER RESINS SITE
# WHEATFIELD, NEW YORK
# OVERBURDEN GROUNDWATER ELEVATIONS
# (OCTOBER 6, 2017)

AECOM

FIGURE 3

\\ursbuffalo.us.ie.urs\buffalo\Projects\60481767_BPIPO\MISC\GIS\EkonolMaps\2017Fall\03 GROUNDWATER CONTOURS - OVERBURDEN.mxd 11/21/2017



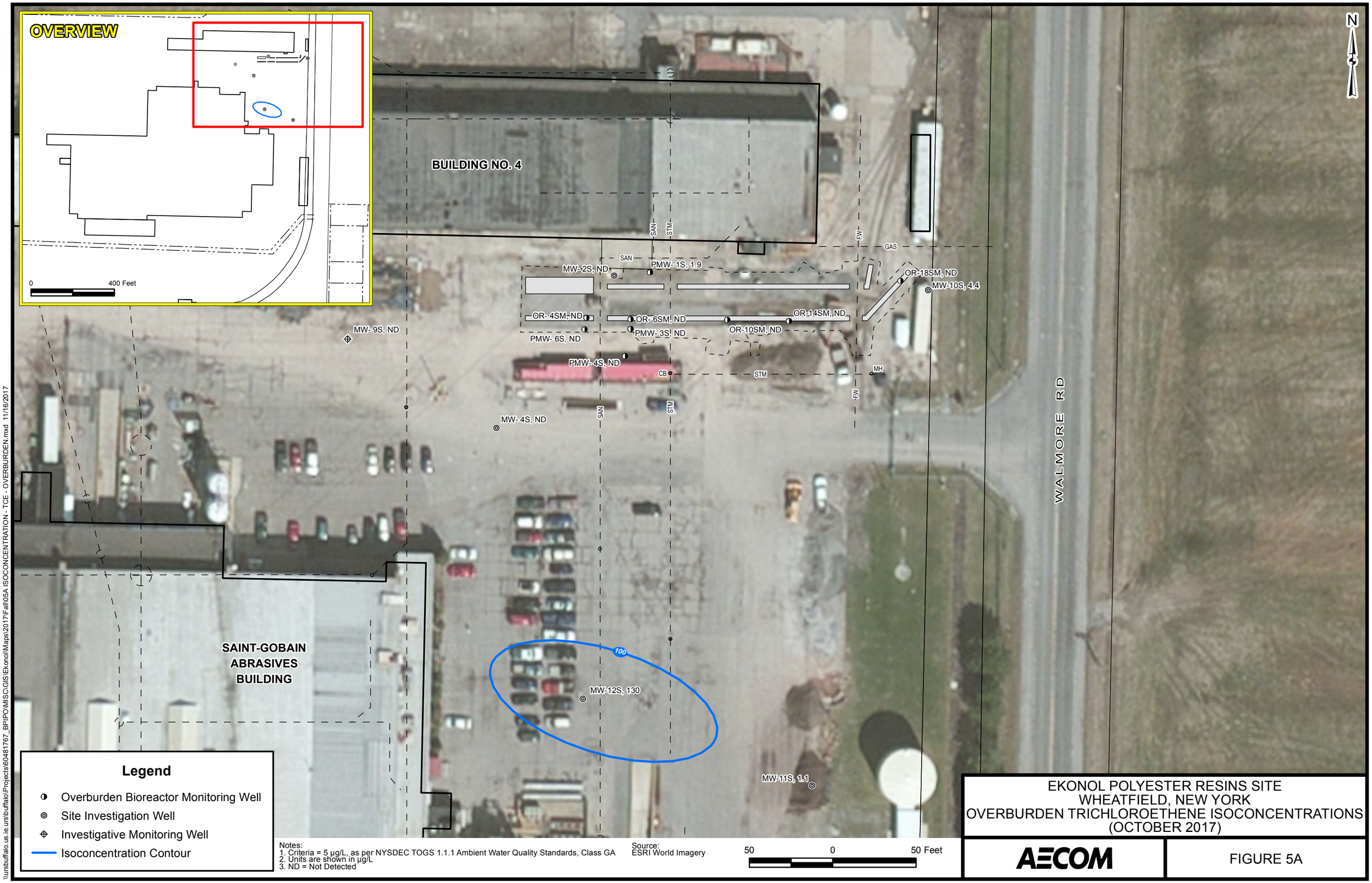

NOTE: PMW-6D was not used in groundwater elevation contour generation due to anomalous water level.

# EKONOL POLYESTER RESINS SITE
# WHEATFIELD, NEW YORK
# BEDROCK GROUNDWATER ELEVATIONS
# (OCTOBER 6, 2017)

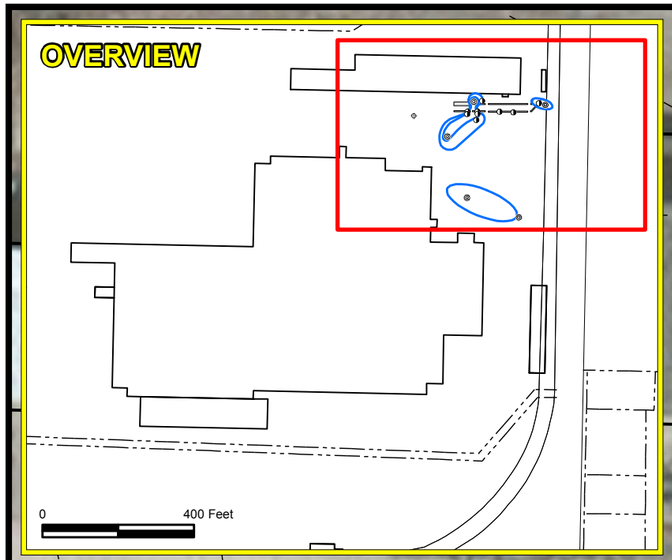
AECOM

FIGURE 4

\\ursbuffalo.us.ie.urs\buffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017\Fall\04 GROUNDWATER CONTOURS - BEDROCK.mxd 11/21/2017




\\ursbuffalo.us.ie.urs\buffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017\Fall\05A ISOCONCENTRATION - TCE - OVERBURDEN.mxd 11/16/2017




BUILDING NO. 4

SAINT-GOBAIN ABRASIVES BUILDING

WALMORE RD E

MW- 2S, 160000
PMW- 1S, 110
OR-18SM, 230
MW-10S, 240
OR-4SM, ND
OR-6SM, 93
OR-10SM, 91
OR-14SM, 0.79
PMW- 6S, 1800
PMW- 3S, 4300
MW- 9S, ND
PMW- 4S, 860
MW- 4S, 4000
MW-12S, 780
MW-11S, 88

100
1000

SAN
STM
FW
GAS
CB
MH

N

## Legend

- Overburden Bioreactor Monitoring Well
- Site Investigation Well
- Investigative Monitoring Well
- Isoconcentration Contour

Notes:
1. Criteria = 5 µg/L, as per NYSDEC TOGS 1.1.1 Ambient Water Quality Standards, Class GA
2. Units are shown in µg/L
3. ND = Not Detected

Source:
ESRI World Imagery

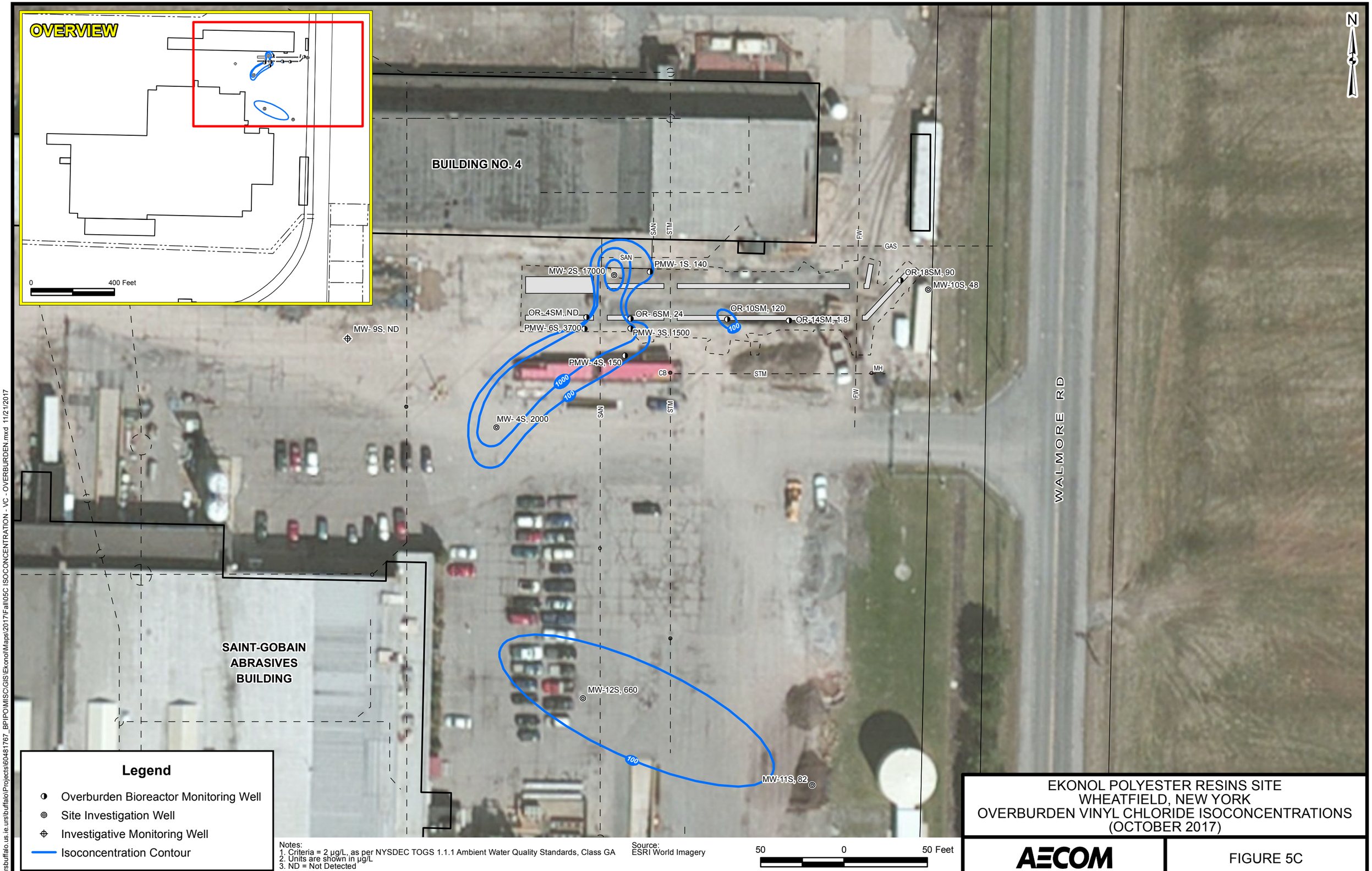
50 0 50 Feet

# EKONOL POLYESTER RESINS SITE
# WHEATFIELD, NEW YORK
# OVERBURDEN CIS-1,2-DICHLOROETHENE ISOCONCENTRATIONS (OCTOBER 2017)

AECOM

FIGURE 5B

\\ursbuffalo.us.ie.ursbuffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017\Fall\05B ISOCONCENTRATION - CIS-1,2-DCE - OVERBURDEN.mxd 11/16/2017

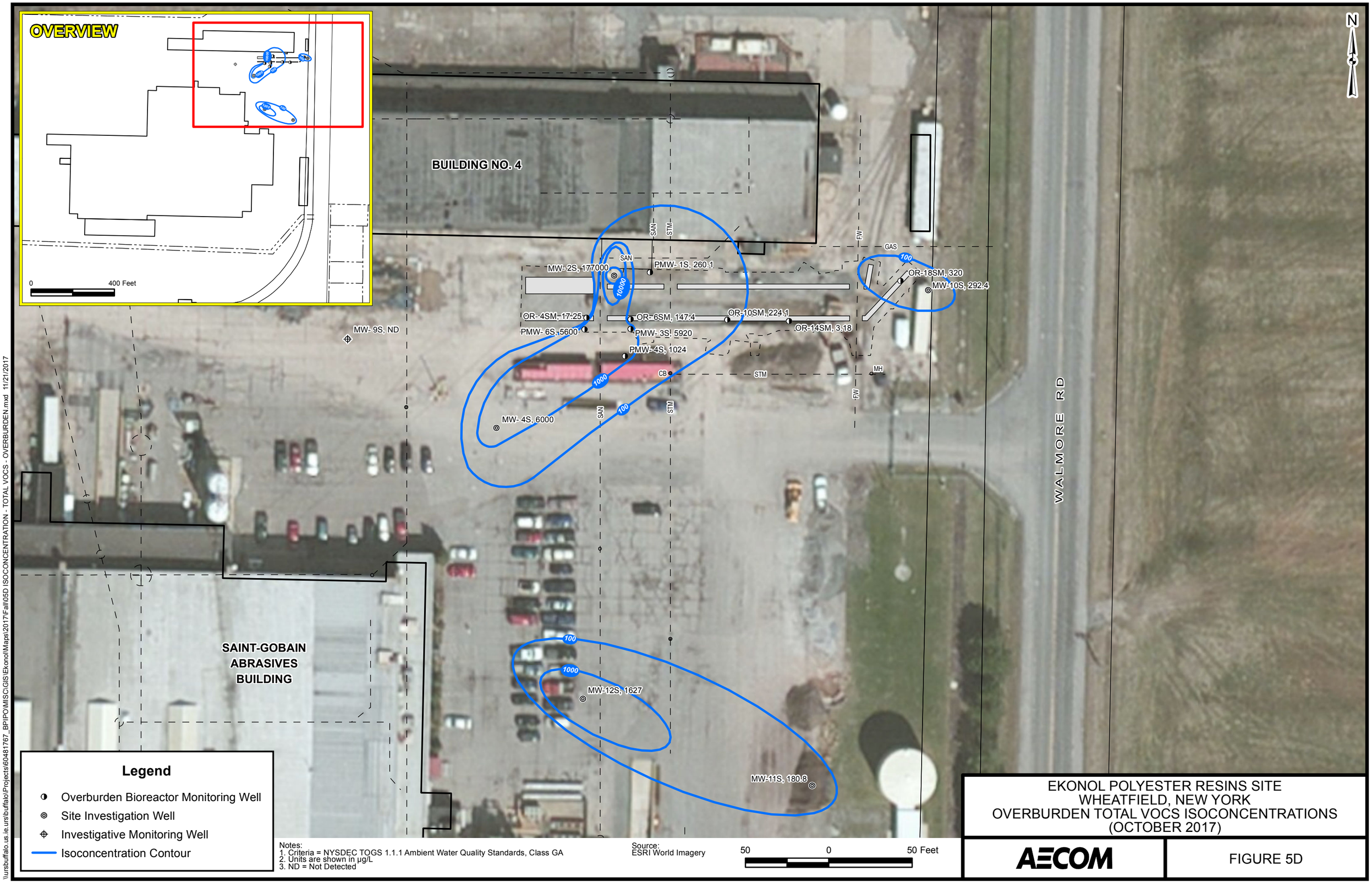


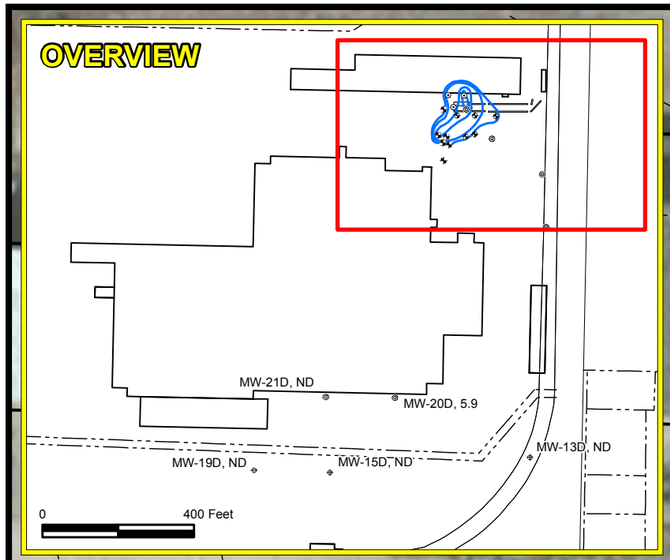

EKONOL POLYESTER RESINS SITE
WHEATFIELD, NEW YORK
OVERBURDEN VINYL CHLORIDE ISOCONCENTRATIONS
(OCTOBER 2017)

AECOM

FIGURE 5C

\\urs\buffalo.us.ie.urs\buffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017\Fall\05C ISOCONCENTRATION - VC - OVERBURDEN.mxd 11/21/2017


OVERVIEW
0
400 Feet
BUILDING NO. 4
SAINT-GOBAIN
ABRASIVES
BUILDING
WALMORE RD
N
SAN
STM
FW
GAS
CB
MH
MW- 2S, 177000
PMW- 1S, 260.1
MW- 9S, ND
OR- 4SM, 17-25
OR- 6SM, 147.4
OR-10SM, 224.1
OR-14SM, 3.18
OR-18SM, 320
MW-10S, 292.4
PMW- 6S, 5600
PMW- 3S, 5920
PMW-4S, 1024
MW- 4S, 6000
MW-12S, 1627
MW-11S, 180.8
100
1000
10000
Legend
Overburden Bioreactor Monitoring Well
Site Investigation Well
Investigative Monitoring Well
Isoconcentration Contour
Notes:
1. Criteria = NYSDEC TOGS 1.1.1 Ambient Water Quality Standards, Class GA
2. Units are shown in µg/L
3. ND = Not Detected
Source:
ESRI World Imagery
50
0
50 Feet
EKONOL POLYESTER RESINS SITE
WHEATFIELD, NEW YORK
OVERBURDEN TOTAL VOCS ISOCONCENTRATIONS
(OCTOBER 2017)
AECOM
FIGURE 5D
\\ursbuffalo.us.ie.ursbuffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017Fall\05D ISOCONCENTRATION - TOTAL VOCS - OVERBURDEN.mxd 11/21/2017




BUILDING NO. 4

SAINT-GOBAIN ABRASIVES BUILDING

WALMORE RD

INJ-11D, 1400
INJ- 7D, 120000
INJ-13D, 2300
RMW- 2D, 120000
PMW- 1D, ND
PMW- 9D, 12000
PMW-10D, 1400
PMW-11D, 490
PMW- 8D, 12000
PMW- 2D, 1200
PMW-17D, 0.81
PMW-16D, 950
RMW- 3D, ND
RMW- 4D, 93
PMW- 6D, 130
MW- 7D, ND
MW-11D, 2.3
MW-17D, 1.8

100000
10000
1000
100

SAN
STM
FW
GAS
CB
MH

N

## Legend

- Bedrock Injection/Withdrawal Well
- Bedrock Monitoring Well
- Pilot Test Well
- Site Investigation Well
- Investigative Monitoring Well
- Isoconcentration Contour

Notes:
1. Criteria = 5 µg/L, as per NYSDEC TOGS 1.1.1 Ambient Water Quality Standards, Class GA
2. Units are shown in µg/L
3. ND = Not Detected

Source:
ESRI World Imagery

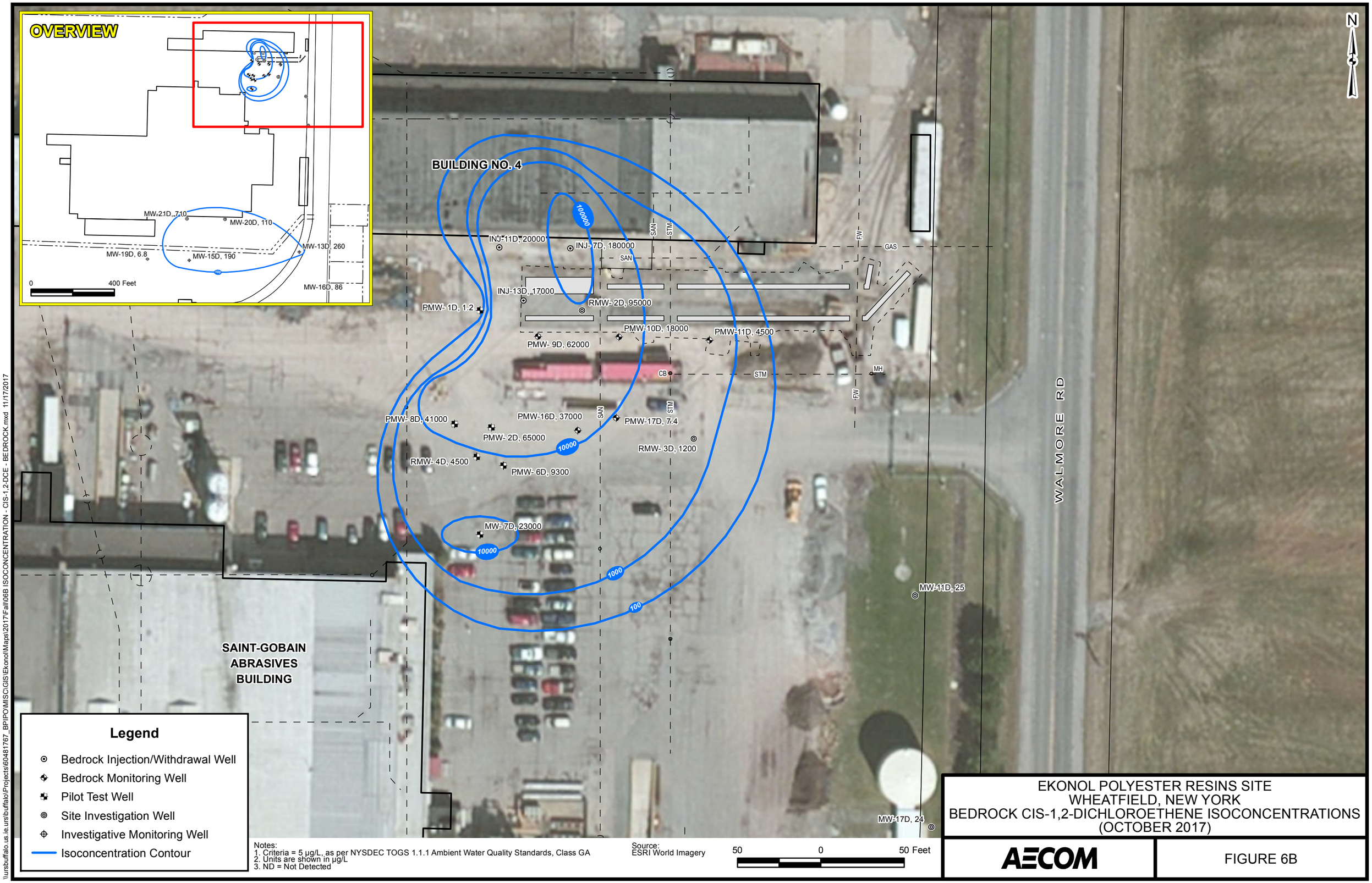
50 0 50 Feet

# EKONOL POLYESTER RESINS SITE
# WHEATFIELD, NEW YORK
# BEDROCK TRICHLOROETHENE ISOCONCENTRATIONS (OCTOBER 2017)

AECOM

FIGURE 6A

\\ursbuffalo.us.ie.ursbuffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017\Fall\06A ISOCONCENTRATION - TCE - BEDROCK.mxd 11/17/2017




## Legend

- Bedrock Injection/Withdrawal Well
- Bedrock Monitoring Well
- Pilot Test Well
- Site Investigation Well
- Investigative Monitoring Well
- Isoconcentration Contour

Notes:
1. Criteria = 5 µg/L, as per NYSDEC TOGS 1.1.1 Ambient Water Quality Standards, Class GA
2. Units are shown in µg/L
3. ND = Not Detected

Source:
ESRI World Imagery

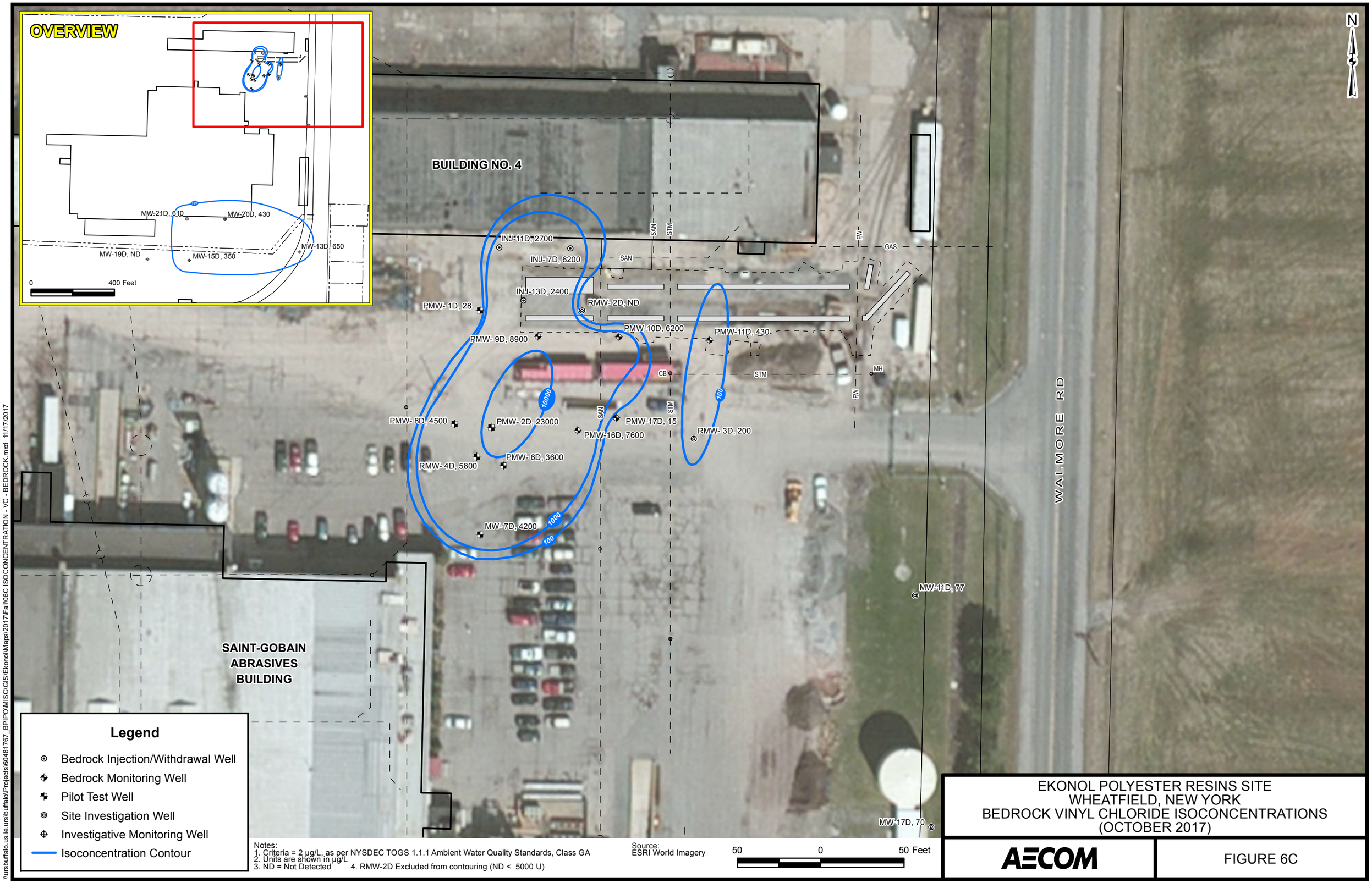
50 0 50 Feet

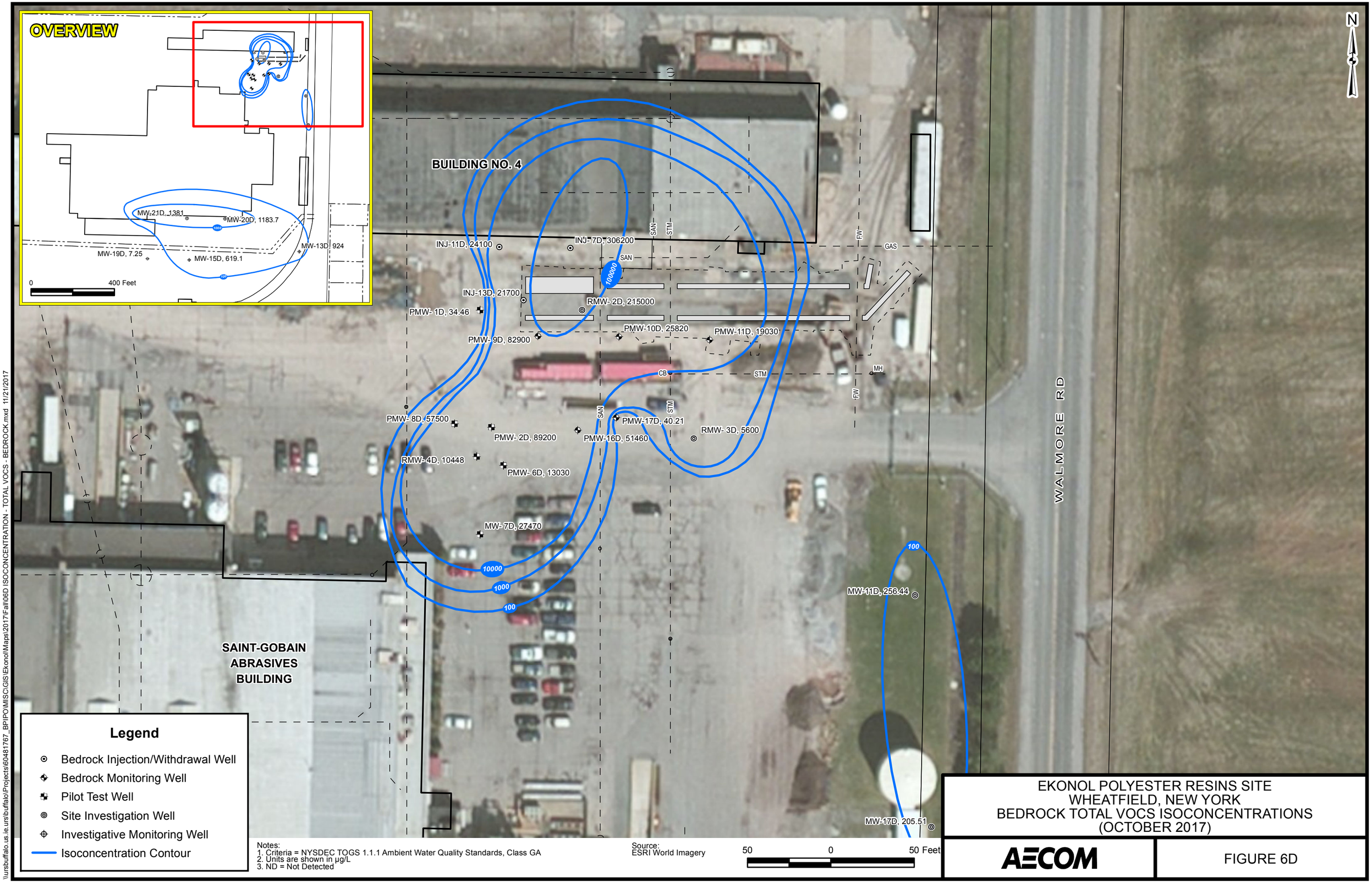
# EKONOL POLYESTER RESINS SITE
# WHEATFIELD, NEW YORK
# BEDROCK CIS-1,2-DICHLOROETHENE ISOCONCENTRATIONS
# (OCTOBER 2017)

AECOM

FIGURE 6B

\\ursbuffalo.us.ie.ursbuffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017\Fall\06B ISOCONCENTRATION - CIS-1,2-DCE - BEDROCK.mxd 11/17/2017


OVERVIEW
MW-21D, 610
MW-20D, 430
MW-19D, ND
MW-15D, 350
MW-13D, 650
0
400 Feet
BUILDING NO. 4
INJ-11D, 2700
INJ- 7D, 6200
INJ-13D, 2400
PMW- 1D, 28
RMW- 2D, ND
PMW- 9D, 8900
PMW-10D, 6200
PMW-11D, 430
PMW- 8D, 4500
PMW- 2D, 23000
PMW-16D, 7600
PMW-17D, 15
RMW- 3D, 200
RMW- 4D, 5800
PMW- 6D, 3600
MW- 7D, 4200
MW-11D, 77
MW-17D, 70
SAN
STM
FW
GAS
CB
MH
10000
1000
100
WALMORE RD
SAINT-GOBAIN
ABRASIVES
BUILDING
N
Legend
Bedrock Injection/Withdrawal Well
Bedrock Monitoring Well
Pilot Test Well
Site Investigation Well
Investigative Monitoring Well
Isoconcentration Contour
Notes:
1. Criteria = 2 µg/L, as per NYSDEC TOGS 1.1.1 Ambient Water Quality Standards, Class GA
2. Units are shown in µg/L
3. ND = Not Detected
4. RMW-2D Excluded from contouring (ND < 5000 U)
Source:
ESRI World Imagery
50
0
50 Feet
EKONOL POLYESTER RESINS SITE
WHEATFIELD, NEW YORK
BEDROCK VINYL CHLORIDE ISOCONCENTRATIONS
(OCTOBER 2017)
AECOM
FIGURE 6C
\\ursbuffalo.us.ie.ursbuffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017Fall\06C ISOCONCENTRATION - VC - BEDROCK.mxd 11/17/2017




## Legend

- Bedrock Injection/Withdrawal Well
- Bedrock Monitoring Well
- Pilot Test Well
- Site Investigation Well
- Investigative Monitoring Well
- Isoconcentration Contour

Notes:
1. Criteria = NYSDEC TOGS 1.1.1 Ambient Water Quality Standards, Class GA
2. Units are shown in µg/L
3. ND = Not Detected

Source:
ESRI World Imagery

50 0 50 Feet

# EKONOL POLYESTER RESINS SITE
# WHEATFIELD, NEW YORK
# BEDROCK TOTAL VOCS ISOCONCENTRATIONS
# (OCTOBER 2017)

AECOM

FIGURE 6D

\\ursbuffalo.us.ie.urs\buffalo\Projects\60481767_BPIPO\MISC\GIS\Ekonol\Maps\2017\Fall\06D ISOCONCENTRATION - TOTAL VOCS - BEDROCK.mxd 11/21/2017

# Appendix A

# Inspection Records

# EKONOL SITE PAVEMENT INSPECTION FORM
# WHEATFIELD, NEW YORK

**Date of Inspection:** 10/11/2017 **Time:** 10:00

**Inspector(s) Name/Title:** Emily Au / Env. Scientist

| Inspection of | Condition Present? | | Action Required? | | Comments/Location | Correction Date |
|---|---|---|---|---|---|---|
| | Yes | No | Yes | No | | |
| 1. Site Pavement | | | | | | |
| A. Surface cracks | X | | X | | Small patch of pitted/cracked/broken asphalt located in engineering control area to the Northeast of OR-8SI and SE of OR-7SI. Asphalt patched the next day. | 10/12/2017 |
| B. Pits/divots | X | | X | | Ovserved set of divots that appear to have been made by truck jacks (located east of PMW-9D). These have been repaired with asphalt patch in the past, but one side has settled. Additional pit noted filled in with soil west of PMW-3S. Asphalt patched the next day. | 10/12/2017 |
| C. Sinking | X | | X | | Same as A. Small patch of pitted/cracked/ broken asphalt located in engineering control area to the Northeast of OR-8SI and SE of OR-7SI. Asphalt patched the next day. | 10/12/2017 |
| 2. Well curb boxes | | | | | | |
| A. Cracks | | X | | X | | |
| B. Loose | | X | | X | | |
| C. Well caps missing | | X | | X | | |
| D. Settlement | | X | | X | | |

## Site Photo Log:





## Site Photo Log:





## Site Photo Log:





# EKONOL SITE INSPECTION FORM
# WHEATFIELD, NEW YORK

**Date of Inspection:** 10/11/2017 **Time:** 10:15

**Inspector(s) Name/Title:** Emily Au / Env. Scientist

| Inspection of | Action Required? | | Comments/Location | Correction Date |
|---|---|---|---|---|
| | Yes | No | | |
| 1. Site Institutional Controls | | | | |
| A. Any site groundwater use? | | X | | |
| B. Any site excavation work? | | X | | |
| C. Any new buildings developed in area? | | X | | |
| D. Any residential buildings on the site? | | X | | |
| 2. Site Engineering Controls | | | | |
| A. Condition and effectiveness of bioreactor asphalt cap? | X | | Small patch of pitted/cracked/broken asphalt located in engineering control area to the Northeast of OR-8SI and SE of OR-7SI. Asphalt patched the next day. | 10/12/2017 |
| 3. Site Management Activities | | | | |
| A. Semi-annual groundwater sampling being completed? | | X | 10/6/2017 - 10/13/2017 | |
| B. Site Health and Safety inspections being completed? | | X | | |
| 4. Site Records | | | | |
| A. Site records up to date? (ie- field notebook, field forms, etc.) | | X | | |

# EKONOL SITE INSPECTION FORM
# WHEATFIELD, NEW YORK

**Date of Inspection:** 10/11/2017 **Time:** 10:15

**Inspector(s) Name/Title:** Emily Au / Env. Scientist

| Inspection of | Action Required? | | Comments/Location | Correction Date |
|---|---|---|---|---|
| | Yes | No | | |
| 5. General Site Conditions | | | | |
| A. Monitoring wells | | X | | |
| B. Fences/Gates | | X | | |
| C. Other Site conditions | | X | | |
| 6. Compliance with Operation and Maintenance Plan | | | | |
| A. Permits up to date? | | X | | |
| B. Schedule maintained? | | X | | |

# OPERATION, MONITORING AND MAINTENANCE CHECKLIST

Date: 6/13/17

Checklist Completed By: JCTM

Project Number: 6048176

Property Location: 6600 WALNUT ST

System Installation Date: 11/17/10

The purpose of this form is to document the operation and maintenance of the sub-slab depressurization system to provide assurance that the system is functioning as designed or identify and execute any actions required to achieve the mitigation of subsurface vapor intrusion of volatile organic compounds to indoor air

**1. MITIGATION SYSTEM INSPECTION**

Occupant Interview

Any concerns identified by the building occupants? YES (NO)

*Comments / Action Items*

Occupant's Initials: DW

External Piping

| | | | |
|---|---|---|---|
| Vent pipes securely fastened to building | (YES) | NO | |
| Are there any visible openings or breaks in the pipe system | YES | (NO) | |
| Is the rain cap present and intact at discharge point | YES | NO | (N/A) |
| Inspection of the exhaust point verified that no air intakes have been located nearby | (YES) | NO | |
| The sealing/caulking around wall penetrations is intact | (YES) | NO | |

*Comments / Action Items*

Mitigation Fan

| | | |
|---|---|---|
| Fan is mounted securely to building (no excessive vibrations during operation) | (YES) | NO |
| Fan cover is installed | (YES) | NO |
| No visible damage to fan or cover | (YES) | NO |

*Comments / Action Items*

## OPERATION, MONITORING AND MAINTENANCE CHECKLIST

Internal Piping

| | | | |
|---|---|---|---|
| Vertical and horizontal pipe runs are secured, including at all penetration points | YES | NO | |
| The sealing/caulking is intact around the extraction point or points through the basement floor, crawlspace floor, and/or crawlspace/basement wall interface. | YES | NO | |
| Vibration dampener installed and intact (pertains to fan mount) | YES | NO | N/A |
| Mitigation system operation placard present and visible/legible | YES | NO | |
| Contains description of major components, valid contact number and instructions for occupant inquiries and/or system failure | YES | NO | |
| Mitigation system maintenance tag present and filled out | YES | NO | |
| Date of last inspection shown on tag:_____ | | | |
| U-tube manometer present and intact at each extraction point | YES | NO | |

*Comments / Action Items*

Electrical

| | | |
|---|---|---|
| Electrical connections secured | YES | NO |
| Junction boxes are closed | YES | NO |
| Conduit is supported | YES | NO |
| Circuit breakers controlling the mitigation fan and alarm circuits operate and are labeled "Mitigation System" | YES | NO |
| Power switch tagged with intact tamper proof seal | YES | NO |
| Audible alarm present | YES | NO |
| Audible alarm switch in "on" position (light on alarm is green) | YES | NO |

*Comments / Action Items*

**2. OPERATIONAL CHECKS**

Fan is operating

| | | |
|---|---|---|
| Noise and Vibration within normal range | YES | NO |
| Alarm sounds when fan is turned off | YES | NO |

| | | |
|---|---|---|
| U-Tube manometer indicating negative sub slab pressure | YES | NO |

U-Tube Manometer Reading: Location: offset Vacuum 0.8 in $H_2O$

U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$

U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$

U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$

U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$

U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$

U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$

U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$

U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$

Smoke test performed on internal penetrations and pipe joints

| | | | |
|---|---|---|---|
| Smoke test indicated no leaks | YES | NO | N/A |
| Smoke test confirms air flow into sump | YES | NO | N/A |
| Back draft test confirms proper air flow at combustion appliances | YES | NO | N/A |
| Smoke test indicated no leaks | YES | NO | N/A |

## OPERATION, MONITORING AND MAINTENANCE CHECKLIST

**3. MAINTENANCE**

Fan last replaced on (date): Summer 2015

Fan due to be replaced: N/A

Additional Maintenance Action Items Performed

**4. ADDITIONAL ACTION ITEMS/ COMMENTS/COMPLETION DATES**

**5. CERTIFICATION**

I certify that the information on this form is true, accurate and complete (all blanks filled in) to the best of my knowledge and ability, and that I have the appropriate training and experience to perform this monitoring/inspection:

Name: Kevin J. McGorm Affiliation: AECOM

Signature: [signature] Date (dd/mm/yy): 6/13/17 / 08:10 am/pm

# OPERATION, MONITORING AND MAINTENANCE CHECKLIST

Date: 9/22/17

Checklist Completed By: KSM

Project Number: 60481716

Property Location: 668 WILMONT RD

System Installation Date: 11/17/10

The purpose of this form is to document the operation and maintenance of the sub-slab depressurization system to provide assurance that the system is functioning as designed or identify and execute any actions required to achieve the mitigation of subsurface vapor intrusion of volatile organic compounds to indoor air

**1. MITIGATION SYSTEM INSPECTION**

Occupant Interview

Any concerns identified by the building occupants? YES (NO)

*Comments / Action Items*

Occupant's Initials: DM

External Piping

| | | | |
|---|---|---|---|
| Vent pipes securely fastened to building | (YES) | NO | |
| Are there any visible openings or breaks in the pipe system | YES | (NO) | |
| Is the rain cap present and intact at discharge point | YES | NO | (N/A) |
| Inspection of the exhaust point verified that no air intakes have been located nearby | (YES) | NO | |
| The sealing/caulking around wall penetrations is intact | (YES) | NO | |

*Comments / Action Items*

Mitigation Fan

| | | |
|---|---|---|
| Fan is mounted securely to building (no excessive vibrations during operation) | (YES) | NO |
| Fan cover is installed | (YES) | NO |
| No visible damage to fan or cover | (YES) | NO |

*Comments / Action Items*

## OPERATION, MONITORING AND MAINTENANCE CHECKLIST

Internal Piping

| | | | |
|---|---|---|---|
| Vertical and horizontal pipe runs are secured, including at all penetration points | YES | NO | |
| The sealing/caulking is intact around the extraction point or points through the basement floor, crawlspace floor, and/or crawlspace/basement wall interface. | YES | NO | |
| Vibration dampener installed and intact (pertains to fan mount) | YES | NO | N/A |
| Mitigation system operation placard present and visible/legible | YES | NO | |
| Contains description of major components, valid contact number and instructions for occupant inquiries and/or system failure | YES | NO | |
| Mitigation system maintenance tag present and filled out | YES | NO | |
| Date of last inspection shown on tag:_____ | | | |
| U-tube manometer present and intact at each extraction point | YES | NO | |

*Comments / Action Items*

Electrical

| | | |
|---|---|---|
| Electrical connections secured | YES | NO |
| Junction boxes are closed | YES | NO |
| Conduit is supported | YES | NO |
| Circuit breakers controlling the mitigation fan and alarm circuits operate and are labeled "Mitigation System" | YES | NO |
| Power switch tagged with intact tamper proof seal | YES | NO |
| Audible alarm present | YES | NO |
| Audible alarm switch in "on" position (light on alarm is green) | YES | NO |

*Comments / Action Items*

**2. OPERATIONAL CHECKS**

| | | | |
|---|---|---|---|
| Fan is operating | | | |
| Noise and Vibration within normal range | YES | NO | |
| Alarm sounds when fan is turned off | YES | NO | |
| U-Tube manometer indicating negative sub slab pressure | YES | NO | |
| U-Tube Manometer Reading: Location: OFFICE Vacuum 0.3 in $H_2O$ | | | |
| U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$ | | | |
| U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$ | | | |
| U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$ | | | |
| U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$ | | | |
| U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$ | | | |
| U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$ | | | |
| U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$ | | | |
| U-Tube Manometer Reading: Location:_____ Vacuum _____ in $H_2O$ | | | |
| Smoke test performed on internal penetrations and pipe joints | | | |
| Smoke test indicated no leaks | YES | NO | N/A |
| Smoke test confirms air flow into sump | YES | NO | N/A |
| Back draft test confirms proper air flow at combustion appliances | YES | NO | N/A |
| Smoke test indicated no leaks | YES | NO | N/A |

## OPERATION, MONITORING AND MAINTENANCE CHECKLIST

**3. MAINTENANCE**

Fan last replaced on (date): Summer 2015

Fan due to be replaced; NA

Additional Maintenance Action Items Performed

**4. ADDITIONAL ACTION ITEMS/ COMMENTS/COMPLETION DATES**

**5. CERTIFICATION**

I certify that the information on this form is true, accurate and complete (all blanks filled in) to the best of my knowledge and ability, and that I have the appropriate training and experience to perform this monitoring/inspection:

Name: Kevin J. McGowan Affiliation: AECOM

Signature: Date (dd/mm/yy): 9/22/17 09:50 am/pm

# Appendix B

# Field Sampling Records

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| | | |
|---|---|---|
| **Site Name:** IP-BP Ekonol | **Well ID:** INJ-7D | **Well Diameter:** 4.0" |

**Samplers:** M. Kuczka

**Weather:** 60° F; Cloudy and Sprinkly

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:** feet below top of PVC

Method: Low Flow | **Date:** 10/09/17 | **Time:** 13:18 (hhmm)

**Initial Depth to Water:** 5.54 | **Depth to Bottom:** 23.45

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 13:20 | 5.96 | 350 | 0.2 | 17.33 | 0.470 | 2.45 | 7.60 | -41.1 | 19.5 | clear with black flecks |
| 13:30 | 7.09 | 350 | 1.1 | 16.95 | 0.171 | 2.71 | 7.43 | -1.1 | 10.27 | |
| 13:40 | 7.94 | 350 | 2.0 | 17.07 | 0.231 | 2.61 | 7.21 | -15.9 | 30.9 | |
| 13:50 | 8.51 | 300 | 2.8 | 16.89 | 0.284 | 1.80 | 7.10 | -21.2 | 15.7 | |
| 14:00 | 8.90 | 300 | 3.6 | 16.70 | 0.311 | 1.47 | 7.13 | -23.2 | 11.73 | |
| 14:10 | 9.18 | 300 | 4.4 | 16.65 | 0.358 | 1.22 | 7.16 | -25.8 | 9.13 | |
| 14:20 | 9.40 | 300 | 5.2 | 16.57 | 0.460 | 0.91 | 7.12 | -25.9 | 7.63 | |
| 14:25 | 9.51 | 300 | 5.6 | 16.47 | 0.525 | 0.92 | 7.10 | -28.6 | 10.24 | |
| 14:30 | 9.65 | 300 | 6.0 | 16.45 | 0.552 | 1.04 | 7.06 | -24.6 | 11.58 | |
| 14:35 | 9.75 | 300 | 6.4 | 16.36 | 0.613 | 1.04 | 7.04 | -22.8 | 11.20 | |
| 14:40 | 9.81 | 300 | 6.8 | 16.35 | 0.654 | 0.92 | 7.03 | -22.2 | 11.90 | |
| 14:45 | 9.85 | 300 | 7.2 | 16.33 | 0.698 | 0.86 | 6.99 | -21.1 | 11 | |
| 14:50 | 9.91 | 300 | 7.6 | 16.34 | 0.741 | 0.71 | 6.96 | -20.6 | 11.2 | |
| 14:55 | 9.85 | 300 | 8.0 | 16.33 | 0.811 | 0.66 | 6.94 | -21.5 | 9.75 | |
| 15:00 | 9.97 | 300 | 8.4 | 16.32 | 0.875 | 0.58 | 6.92 | -22.2 | 7.44 | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/09/17 | **Time:** 15:45 | **Total Volume of Water Purged (gal):** 15.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** INJ-7D

**Well Diameter:** 4.0"

**Samplers:**
M. Kuczka

**Weather:**
60° F; Cloudy and Sprinkly

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/09/17 **Time:** 13:18 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.54

**Depth to Bottom:** 23.45

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 15:05 | 9.98 | 300 | 11.6 | 16.41 | 0.923 | 0.50 | 6.90 | -23.2 | 7.34 | |
| 15:10 | 9.98 | 300 | 12.0 | 16.35 | 0.973 | 0.41 | 6.88 | -24.4 | 6.28 | |
| 15:15 | 9.98 | 300 | 12.4 | 16.39 | 1.018 | 0.36 | 6.87 | -26.1 | 5.71 | |
| 15:20 | 9.98 | 300 | 12.8 | 16.37 | 1.041 | 0.35 | 6.87 | -26.6 | 4.89 | |
| 15:25 | 9.98 | 300 | 13.2 | 16.36 | 1.070 | 0.35 | 6.85 | -28.1 | 6.93 | |
| 15:30 | 9.98 | 300 | 13.6 | 16.36 | 1.100 | 0.33 | 6.84 | -29.1 | 8.88 | |
| 15:35 | 9.98 | 300 | 14.0 | 16.40 | 1.123 | 0.33 | 6.83 | -30.2 | 6.67 | |
| 15:40 | 9.98 | 300 | 14.4 | 16.44 | 1.142 | 0.32 | 6.82 | -31.5 | 5.67 | |
| 15:45 | 9.98 | 300 | 14.8 | 16.42 | 1.166 | 0.32 | 6.81 | -32.7 | 4.99 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/09/17 **Time:** 15:45

**Total Volume of Water Purged (gal):** 15.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| | | |
|---|---|---|
| **Site Name:** IP-BP Ekonol | **Well ID:** INJ-11D | **Well Diameter:** 4.0" S.S. |

**Samplers:**
E. Au
S. Connelly

**Weather:**
70° F, Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | **Date:** 10-09-17 | **Time:** 13:15 (hhmm)

**feet below top of PVC**

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 6.00 | 21.74 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 13:15 | 6.20 | 550 | 0.0 | 17.00 | 0.247 | 6.93 | 7.52 | -199.3 | 73.5 | |
| 13:20 | 6.35 | 325 | 0.9 | 16.90 | 0.211 | 1.61 | 7.29 | -193.7 | 68 | |
| 13:25 | 6.38 | 325 | 1.7 | 16.90 | 0.220 | 0.87 | 7.19 | -209.0 | 47.3 | |
| 13:30 | 6.35 | 325 | 2.6 | 16.60 | 0.331 | 0.54 | 7.05 | -259.6 | 49.7 | |
| 13:40 | 6.34 | 325 | 3.4 | 16.60 | 0.452 | 0.38 | 7.01 | -264.8 | 28.1 | |
| 13:50 | 6.30 | 325 | 4.3 | 16.30 | 0.578 | 0.21 | 6.98 | -233.3 | 19.8 | |
| 14:00 | 6.30 | 325 | 5.2 | 16.10 | 0.780 | 0.11 | 6.95 | -238.5 | 12.1 | |
| 14:10 | 6.30 | 325 | 6.0 | 15.80 | 1.290 | 0.07 | 6.87 | -261.7 | -3 | Black flecks, Turbidity Malfunction due to grey water |
| 14:20 | 6.30 | 325 | 6.9 | 15.70 | 1.930 | 0.03 | 6.83 | -289.1 | -3 | |
| 14:30 | 6.28 | 325 | 7.7 | 15.70 | 2.340 | 0.02 | 6.81 | -320.8 | -2.00 | |
| 14:40 | 6.25 | 325 | 8.6 | 15.70 | 2.510 | 0.01 | 6.81 | -316.1 | -2.00 | |
| 14:50 | 6.23 | 325 | 9.4 | 15.60 | 2.820 | 0.02 | 6.80 | -360.3 | -2 | |
| 15:00 | 6.19 | 325 | 10.3 | 15.60 | 3.010 | 0.01 | 6.80 | -333.5 | 7.57 | |
| 15:10 | 6.18 | 325 | 11.2 | 15.60 | 3.180 | 0.01 | 6.79 | -325.4 | 7.26 | |
| 15:20 | 6.16 | 325 | 12.0 | 15.60 | 3.310 | 0.01 | 6.79 | -324.3 | 7.1 | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/09/17 | **Time:** 15:20 | **Total Volume of Water Purged (gal):** 13.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
Specific conductivity not stable after 2hrs and one well volume. Grab sampled.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** INJ-13D

**Well Diameter:** 4.0"

**Samplers:**
E. Au
M. Kuczka

**Weather:**
60° F, Overcast, Damp, Windy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/12/17 **Time:** 8:05 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.31

**Depth to Bottom:** 21.68

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:05 | 5.31 | 350 | 0.0 | 14.70 | 0.800 | 0.97 | 8.27 | -328.7 | 6.76 | Clear with black floating particels |
| 8:10 | 6.05 | 350 | 0.5 | 14.90 | 0.327 | 1.00 | 8.34 | -322.1 | 7.34 | |
| 8:15 | 6.62 | 350 | 0.9 | 14.90 | 0.195 | 1.07 | 8.43 | -321.1 | 6.61 | |
| 8:20 | 7.20 | 350 | 1.4 | 14.90 | 0.191 | 1.08 | 8.39 | -318.5 | 7.41 | |
| 8:25 | 7.43 | 350 | 1.8 | 15.00 | 0.199 | 1.11 | 8.41 | -319.5 | 7.43 | |
| 8:30 | 7.77 | 350 | 2.3 | 15.10 | 0.345 | 1.13 | 8.09 | -315.1 | 7.55 | |
| 8:35 | 8.13 | 350 | 2.8 | 15.00 | 0.650 | 0.84 | 7.84 | -325.7 | 7.09 | |
| 8:40 | 8.46 | 350 | 3.2 | 15.00 | 0.670 | 0.83 | 7.77 | -328.5 | 8.68 | |
| 8:45 | 8.72 | 350 | 3.7 | 15.00 | 0.989 | 0.69 | 7.64 | -333.5 | 7.45 | |
| 8:50 | 9.00 | 350 | 4.2 | 15.00 | 1.020 | 0.57 | 7.55 | -338.7 | 8.92 | |
| 8:55 | 9.24 | 350 | 4.6 | 15.00 | 1.060 | 0.54 | 7.52 | -338.3 | 7.46 | |
| 9:00 | 9.42 | 350 | 5.1 | 15.00 | 1.100 | 0.49 | 7.44 | -343.8 | 15.6 | |
| 9:05 | 9.61 | 350 | 5.5 | 14.90 | 1.210 | 0.44 | 7.36 | -350.2 | 9.18 | |
| 9:10 | 9.72 | 350 | 6.0 | 14.90 | 1.310 | 0.46 | 7.32 | -347.6 | 9.55 | |
| 9:15 | 9.79 | 350 | 6.5 | 14.90 | 1.460 | 0.46 | 7.25 | -358.9 | 8.89 | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/12/17 **Time:** 10:15

**Total Volume of Water Purged (gal):** 11.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
Dup-101217 collected. Time listed as 8:00 for duplicate.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** INJ-13D

**Well Diameter:** 4.0"

**Samplers:**
E. Au
M. Kuczka

**Weather:**
60° F, Overcast, Damp, Windy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/12/17 **Time:** (hhmm) 08:05

feet below top of PVC

**Initial Depth to Water:** 5.31

**Depth to Bottom:** 21.68

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:20 | 9.84 | 350 | 7.0 | 14.9 | 1.53 | 0.62 | 7.20 | -364.0 | 9.29 | |
| 9:25 | 9.89 | 350 | 7.4 | 14.8 | 1.80 | 0.27 | 7.16 | -367.5 | 8.59 | |
| 9:30 | 9.89 | 350 | 7.9 | 14.7 | 1.93 | 0.25 | 7.12 | -369.6 | 8.30 | |
| 9:35 | 9.89 | 350 | 8.3 | 14.7 | 2.09 | 0.17 | 7.08 | -373.6 | 7.70 | |
| 9:40 | 9.85 | 350 | 8.8 | 14.7 | 2.21 | 0.14 | 7.05 | -373.1 | 7.74 | |
| 9:45 | 9.85 | 350 | 9.3 | 14.7 | 2.31 | 0.15 | 7.03 | -373.7 | 8.20 | |
| 9:50 | 9.85 | 350 | 9.7 | 14.7 | 2.43 | 0.14 | 7.00 | -378.0 | 9.96 | |
| 9:55 | 9.85 | 300 | 10.1 | 14.7 | 2.54 | 0.15 | 6.99 | -377.4 | 9.24 | |
| 10:00 | 9.85 | 300 | 10.5 | 14.7 | 2.61 | 0.13 | 6.98 | -381.5 | 8.02 | |
| 10:05 | 9.85 | 300 | 10.9 | 14.7 | 2.72 | 0.10 | 6.96 | -376.0 | 9.05 | |
| 10:10 | 9.85 | 300 | 11.3 | 14.7 | 2.75 | 0.12 | 6.95 | -386.1 | 7.21 | |
| 10:15 | 9.85 | 300 | 11.7 | 14.7 | 2.81 | 0.10 | 6.94 | -389.3 | 7.20 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/12/17 **Time:** 10:15

**Total Volume of Water Purged (gal):** 11.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
Dup-101217 collected. Time listed as 8:00 for duplicate.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-2S

**Well Diameter:** 2.0"

**Samplers:**
E. Au
M. Kuczka

**Weather:** 60° F, Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/12/17 **Time:** (hhmm) 14:08

**feet below top of PVC**

**Initial Depth to Water:** 2.5

**Depth to Bottom:** 11.95

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 14:10 | 3.03 | 200 | 0.1 | 18.70 | 5.080 | 2.41 | 6.88 | -199.3 | 5.61 | |
| 14:15 | 4.25 | 200 | 0.4 | 18.40 | 5.280 | 0.37 | 6.74 | -218.6 | 1 | |
| 14:20 | 5.12 | 200 | 0.6 | 18.40 | 5.280 | 0.38 | 6.73 | -226.5 | 2.27 | |
| 14:25 | 6.35 | 200 | 0.9 | 18.70 | 5.270 | 0.18 | 6.73 | -237.9 | 1.59 | |
| 14:30 | 7.48 | 150 | 1.1 | 18.80 | 5.250 | 0.20 | 6.75 | -251.2 | 1.14 | |
| 14:35 | 7.60 | 125 | 1.3 | 18.80 | 5.220 | 0.20 | 6.79 | -259.3 | 2.25 | |
| 14:40 | 7.69 | 125 | 1.4 | 18.80 | 5.180 | 0.19 | 6.83 | -262.6 | 1.79 | |
| 14:45 | 7.72 | 125 | 1.6 | 18.70 | 5.170 | 0.28 | 6.86 | -259.2 | 1.95 | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/12/17

**Time:** 14:45

**Total Volume of Water Purged (gal):** 1.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-4S

**Well Diameter:** 2.0"

**Samplers:**
E. Au
S. Connelly

**Weather:** 60° F, Light Rain

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/11/17 **Time:** 9:35 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 7.10

**Depth to Bottom:** 12.62

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:35 | 7.10 | 250 | 0.0 | 17.30 | 5.390 | 1.72 | 6.92 | -315.4 | 7.3 | |
| 9:40 | 7.85 | 150 | 0.2 | 17.30 | 5.590 | 0.56 | 6.79 | -355.0 | 4.08 | |
| 9:45 | 8.10 | 150 | 0.4 | 17.20 | 5.630 | 0.48 | 6.79 | -366.0 | 3.76 | |
| 9:50 | 8.33 | 150 | 0.6 | 17.10 | 5.730 | 0.40 | 6.78 | -373.0 | 2.73 | |
| 9:55 | 8.50 | 150 | 0.8 | 16.80 | 5.770 | 0.43 | 6.78 | -376.7 | 1.79 | |
| 10:00 | 8.60 | 150 | 1.0 | 16.30 | 5.830 | 1.53 | 6.82 | -294.1 | 4.29 | |
| 10:05 | 8.70 | 150 | 1.2 | 15.90 | 6.020 | 1.13 | 6.79 | -374.2 | 1.33 | |
| 10:10 | 8.80 | 150 | 1.4 | 16.00 | 5.910 | 0.63 | 6.79 | -381.0 | 1.31 | |
| 10:15 | 8.90 | 150 | 1.6 | 16.00 | 5.780 | 0.51 | 6.78 | -384.7 | 1.45 | |
| 10:20 | 9.00 | 150 | 1.8 | 16.00 | 5.640 | 0.46 | 6.77 | -389.1 | 0.79 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/11/17 **Time:** 10:20

**Total Volume of Water Purged (gal):** 2.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| | | |
|---|---|---|
| **Site Name:** IP-BP Ekonol | **Well ID:** MW-7D | **Well Diameter:** 4.0" |

**Samplers:** S. Connelly

**Weather:** 60° F, Overcast, Slight Breeze

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | **Date:** 10/13/17 | **Time:** 9:30 (hhmm)

**feet below top of PVC**

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 6.5 | 26.57 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:30 | 6.50 | 250 | 0.0 | 17.13 | 3.133 | 0.81 | 7.91 | -313.1 | 4.85 | |
| 9:35 | 6.70 | 210 | 0.3 | 16.82 | 2.541 | 1.42 | 7.67 | -300.4 | 4.6 | |
| 9:40 | 6.70 | 225 | 0.6 | 16.89 | 2.452 | 1.59 | 7.42 | -303.5 | 4.85 | |
| 9:45 | 6.75 | 225 | 0.9 | 16.73 | 2.921 | 1.65 | 7.21 | -316.6 | 4.93 | |
| 9:50 | 6.75 | 225 | 1.2 | 16.52 | 4.367 | 1.16 | 7.00 | -337.0 | 5.39 | |
| 9:55 | 6.75 | 225 | 1.5 | 16.69 | 4.907 | 0.90 | 6.97 | -346.6 | 4.06 | |
| 10:00 | 6.75 | 225 | 1.8 | 16.86 | 4.816 | 0.78 | 6.98 | -343.8 | 11.1 | |
| 10:05 | 6.75 | 225 | 2.1 | 16.94 | 4.989 | 0.75 | 6.98 | -349.1 | 9.3 | |
| 10:10 | 6.75 | 225 | 2.4 | 16.91 | 4.995 | 0.74 | 6.97 | -348.1 | 3.51 | |
| 10:15 | 6.75 | 225 | 2.7 | 17.07 | 4.977 | 0.79 | 6.97 | -349.3 | 2.42 | |
| 10:20 | 6.75 | 225 | 3.0 | 17.27 | 4.942 | 0.89 | 6.98 | -350.7 | 2.82 | |
| 10:25 | 6.75 | 225 | 3.2 | 17.99 | 4.882 | 0.98 | 6.98 | -352.2 | 3.02 | |
| 10:30 | 6.75 | 225 | 3.5 | 18.97 | 4.852 | 0.85 | 7.00 | -355.0 | 3.01 | |
| 10:35 | 6.75 | 225 | 3.8 | 18.03 | 4.835 | 1.03 | 6.99 | -358.5 | 2.39 | |
| 10:40 | 6.75 | 225 | 4.1 | 17.92 | 4.793 | 1.04 | 6.97 | -356.9 | 2.64 | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/13/17 | **Time:** 11:30 | **Total Volume of Water Purged (gal):** 7.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-7D

**Well Diameter:** 4.0"

**Samplers:**
S. Connelly

**Weather:**
60° F, Overcast, Slight Breeze

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/13/17 **Time:** 9:30 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 6.5

**Depth to Bottom:** 26.57

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:45 | 6.75 | 225 | 4.4 | 17.64 | 4.750 | 1.09 | 6.96 | -355.2 | 3.15 | |
| 10:50 | 6.75 | 225 | 4.7 | 17.35 | 4.726 | 1.15 | 6.94 | -353.2 | 5.28 | |
| 10:55 | 6.75 | 225 | 5.0 | 17.62 | 4.555 | 1.16 | 6.95 | -352.2 | 2.98 | |
| 11:00 | 6.75 | 225 | 5.3 | 17.49 | 4.132 | 1.16 | 6.98 | -354.4 | 3.38 | |
| 11:05 | 6.80 | 225 | 5.6 | 17.53 | 4.091 | 1.13 | 6.96 | -343.1 | 4.52 | |
| 11:10 | 6.80 | 225 | 5.9 | 17.35 | 4.025 | 1.23 | 6.95 | -340.3 | 6.76 | |
| 11:15 | 6.80 | 225 | 6.2 | 17.33 | 4.109 | 1.33 | 6.93 | -339.8 | 7.5 | |
| 11:20 | 6.80 | 225 | 6.5 | 16.81 | 4.150 | 1.41 | 6.91 | -338.7 | 7.65 | |
| 11:25 | 6.80 | 225 | 6.8 | 16.71 | 4.070 | 1.45 | 6.90 | -334.7 | 3.23 | |
| | | | | | | | | | | |
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**Sample Collection Method:** Peristaltic Pump

**Date:** 10/13/17

**Time:** 11:30

**Total Volume of Water Purged (gal):** 7.5

### Hach Test Kits

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

### Sample Set

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-9S

**Well Diameter:** 2.0'

**Samplers:**
E. Au
M. Kuczka

**Weather:** 65° F, Partially Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/13/17 **Time:** 7:55 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.12

**Depth to Bottom:** 14.00

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 7:55 | 5.90 | 275 | 0.0 | 16.40 | 5.440 | 1.79 | 6.88 | -233.8 | 51.1 | white flecks |
| 8:00 | 7.13 | 200 | 0.3 | 16.70 | 2.150 | 3.00 | 10.61 | -302.0 | 48.7 | |
| 8:05 | 8.16 | 200 | 0.5 | 16.80 | 1.780 | 3.53 | 11.04 | -295.5 | 25.2 | |
| 8:10 | 8.92 | 200 | 0.8 | 16.90 | 1.370 | 5.29 | 9.92 | -263.5 | 16.3 | |
| 8:15 | 9.00 | 200 | 1.1 | 17.00 | 3.590 | 4.34 | 8.17 | -213.7 | 14 | |
| 8:20 | 9.00 | 200 | 1.3 | 17.10 | 4.220 | 2.93 | 7.42 | -223.1 | 11.2 | |
| 8:25 | 9.00 | 200 | 1.6 | 16.90 | 4.490 | 2.38 | 7.21 | -234.8 | 8.31 | |
| 8:30 | 9.00 | 200 | 1.8 | 17.10 | 4.620 | 2.84 | 7.12 | -243.8 | 7.29 | |
| 8:35 | 9.00 | 200 | 2.1 | 16.90 | 4.870 | 4.95 | 7.06 | -250.9 | 5.13 | |
| 8:40 | 9.68 | 200 | 2.4 | 17.00 | 4.950 | 1.77 | 7.02 | -257.0 | 3.77 | |
| 8:45 | 9.88 | 200 | 2.6 | 16.90 | 4.850 | 1.58 | 7.04 | -262.0 | 8.95 | |
| 8:50 | 10.19 | 200 | 2.9 | 16.80 | 4.810 | 1.54 | 7.05 | -264.7 | 3.2 | |
| 8:55 | 10.55 | 200 | 3.2 | 17.00 | 5.080 | 1.28 | 6.98 | -269.9 | 2.85 | |
| 9:00 | 10.77 | 175 | 3.4 | 17.40 | 5.260 | 1.06 | 6.97 | -276.0 | 3.63 | |
| 9:05 | 11.06 | 175 | 3.6 | 17.70 | 5.260 | 0.99 | 6.96 | -236.2 | 2.75 | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/13/17 **Time:** 9:25

**Total Volume of Water Purged (gal):** 5.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-9S

**Well Diameter:** 2.0"

**Samplers:**
E. Au
M. Kuczka

**Weather:** 65° F, Partially Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/13/17 **Time:** 7:55 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.12

**Depth to Bottom:** 14.00

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:10 | 11.27 | 175 | 3.8 | 17.70 | 5.230 | 0.95 | 6.97 | -294.5 | 1.84 | |
| 9:15 | 11.50 | 175 | 4.1 | 17.60 | 5.230 | 0.87 | 6.96 | -305.8 | 2.11 | |
| 9:20 | 11.75 | 175 | 4.3 | 17.50 | 5.210 | 0.80 | 6.94 | -311.2 | 1.82 | |
| 9:25 | 11.95 | 175 | 4.5 | 17.40 | 5.190 | 0.76 | 6.93 | -316.5 | 1.83 | |
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**Sample Collection Method:** Peristaltic Pump

**Date:** 10/13/17 **Time:** 9:25

**Total Volume of Water Purged (gal):** 5.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-10S

**Well Diameter:** 2.0"

**Samplers:**
M. Kuczka

**Weather:**
75° F, Partially Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/17 **Time:** 15:05 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 3.71

**Depth to Bottom:** 11.48

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 15:10 | 3.96 | 225 | 0.3 | 17.56 | 2.904 | 5.36 | 7.20 | -190.9 | 6.34 | Clear |
| 15:15 | 4.80 | 250 | 0.6 | 16.68 | 2.644 | 0.84 | 6.85 | -135.8 | 1.84 | |
| 15:20 | 4.84 | 250 | 1.0 | 16.65 | 2.334 | 0.64 | 6.86 | -125.5 | 1.84 | |
| 15:25 | 4.88 | 250 | 1.3 | 16.60 | 2.168 | 0.53 | 6.88 | -113.0 | 1.76 | |
| 15:30 | 4.90 | 250 | 1.6 | 16.44 | 2.069 | 0.48 | 6.88 | -102.7 | 1.25 | |
| 15:35 | 4.90 | 250 | 1.9 | 16.27 | 1.995 | 0.46 | 6.87 | -91.4 | 1.13 | |
| 15:40 | 4.90 | 250 | 2.3 | 16.32 | 1.935 | 0.43 | 6.89 | -81.9 | 1.19 | |
| 15:45 | 4.90 | 250 | 2.6 | 16.19 | 1.615 | 0.42 | 6.90 | -75.7 | 1.20 | |
| 15:50 | 4.90 | 250 | 2.9 | 16.09 | 1.869 | 0.41 | 6.89 | -69.1 | 1.16 | |
| 15:55 | 4.90 | 250 | 3.3 | 16.12 | 1.828 | 0.42 | 6.91 | -64.5 | 1.15 | |
| 16:00 | 4.90 | 250 | 3.6 | 16.10 | 1.819 | 0.40 | 6.92 | -59.2 | 1.00 | |
| | | | | | | | | | | |
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**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/17 **Time:** 16:05

**Total Volume of Water Purged (gal):** 4.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-11S

**Well Diameter:** 2.0"

**Samplers:**
M. Kuczka

**Weather:**
65° F, Partially Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/17 **Time:** 11:02 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.77

**Depth to Bottom:** 13.41

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 11:05 | 5.86 | 175 | 0.1 | 17.54 | 5.627 | 7.47 | 7.16 | -185.9 | 10.73 | Clear |
| 11:10 | 5.88 | 200 | 0.4 | 17.09 | 5.575 | 1.92 | 6.91 | -188.1 | 4.96 | |
| 11:15 | 5.90 | 200 | 0.7 | 16.89 | 5.549 | 1.57 | 6.83 | -202.9 | 2.32 | |
| 11:20 | 5.92 | 200 | 0.9 | 16.83 | 5.491 | 0.93 | 6.81 | -209.9 | 2.86 | |
| 11:25 | 5.92 | 200 | 1.2 | 16.79 | 5.441 | 0.62 | 6.80 | -211.2 | 1.93 | |
| 11:30 | 5.92 | 200 | 1.5 | 16.72 | 5.409 | 0.48 | 6.79 | -212.9 | 1.81 | |
| 11:35 | 5.92 | 200 | 1.7 | 16.63 | 5.390 | 0.43 | 6.78 | -214.4 | 1.43 | |
| 11:40 | 5.92 | 200 | 2.0 | 16.57 | 5.357 | 0.38 | 6.77 | -215.4 | 1.23 | |
| | | | | | | | | | | |
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**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/17 **Time:** 11:40

**Total Volume of Water Purged (gal):** 2.0

### Hach Test Kits

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:** VOC's and MEE's Only

### Sample Set

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☐ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☐ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-11D

**Well Diameter:** 2.0" Stickup

**Samplers:** E. Au

**Weather:** 65° F, Rain

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/09/17 **Time:** 8:20 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 8.84

**Depth to Bottom:** 30.84

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:20 | 9.50 | 200 | 0.0 | 14.20 | 2.250 | 3.90 | 6.90 | -169.3 | 1.38 | Sulfer Odor |
| 8:25 | 9.15 | 200 | 0.3 | 14.00 | 2.250 | 0.21 | 6.87 | -164.0 | 1.09 | |
| 8:35 | 9.25 | 200 | 1.1 | 14.00 | 2.250 | 0.11 | 6.90 | -182.6 | 0.81 | |
| 8:40 | 9.30 | 200 | 1.4 | 14.00 | 2.250 | 0.33 | 6.91 | -195.4 | 0.61 | |
| 8:45 | 9.22 | 200 | 1.7 | 14.10 | 2.250 | 0.26 | 6.92 | -211.2 | 0.3 | |
| 8:50 | 9.17 | 200 | 1.9 | 14.10 | 2.240 | 0.24 | 6.92 | -217.1 | 0.53 | |
| 8:55 | 9.05 | 200 | 2.2 | 14.10 | 2.240 | 0.22 | 6.93 | -227.0 | 0.05 | |
| 9:00 | 8.96 | 200 | 2.4 | 14.10 | 2.240 | 0.22 | 6.93 | -234.0 | 0.06 | |
| 9:05 | 8.85 | 200 | 2.7 | 14.40 | 2.240 | 0.21 | 6.94 | -238.5 | 0.03 | |
| 9:10 | 8.75 | 200 | 3.0 | 14.30 | 2.240 | 0.21 | 6.94 | -242.5 | 0.30 | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/09/17 **Time:** 9:15

**Total Volume of Water Purged (gal):** 3.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:** Rain

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☐ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☐ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-12S

**Well Diameter:** 2.0"

**Samplers:**
M. Kuczka

**Weather:**
65° F, Partially Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/17 **Time:** 9:40 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.43

**Depth to Bottom:** 12.91

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:45 | 6.25 | 300 | 0.4 | 18.42 | 5.273 | 7.08 | 6.98 | -35.2 | 9.22 | |
| 9:50 | 7.16 | 200 | 0.7 | 18.08 | 4.346 | 0.77 | 6.69 | -60.1 | 130 | |
| 9:55 | 7.23 | 200 | 0.9 | 17.92 | 4.755 | 0.51 | 6.63 | -88.9 | 14.7 | |
| 10:00 | 7.23 | 200 | 1.2 | 17.83 | 4.862 | 0.38 | 6.61 | -121.0 | 11.9 | |
| 10:05 | 7.27 | 200 | 1.5 | 17.79 | 4.896 | 0.29 | 6.61 | -162.7 | 10.69 | |
| 10:10 | 7.34 | 200 | 1.7 | 17.76 | 4.793 | 0.24 | 6.61 | -223.0 | 11.1 | |
| 10:15 | 7.36 | 200 | 2.0 | 17.68 | 4.784 | 0.20 | 6.59 | -266.3 | 8.86 | |
| 10:20 | 7.36 | 200 | 2.2 | 17.66 | 4.778 | 0.23 | 6.58 | -276.8 | 10.66 | |
| 10:25 | 7.36 | 200 | 2.5 | 17.73 | 4.808 | 0.26 | 6.58 | -282.0 | 11.64 | |
| 10:30 | 7.36 | 200 | 2.8 | 17.76 | 4.815 | 0.25 | 6.58 | -284.4 | 10.41 | |
| 10:35 | 7.36 | 200 | 3.0 | 17.76 | 4.790 | 0.25 | 6.58 | -285.7 | 7.63 | |
| | | | | | | | | | | |
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**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/17 **Time:** 10:35

**Total Volume of Water Purged (gal):** 4.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**VOC's and MEE's only**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☐ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☐ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| | | |
|---|---|---|
| **Site Name:** IP-BP Ekonol | **Well ID:** MW-13D | **Well Diameter:** 2.0" Stickup |

**Samplers:**
E. Au
S. Connelly
M. Kuczka

**Weather:**
65° F, Cloudy, Wet

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | **Date:** 10/09/17 | **Time:** 10:20 (hhmm)

**feet below top of PVC**

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 9.45 | 31.39 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:20 | 9.90 | 250 | 0.0 | 15.00 | 2.110 | 6.52 | 7.12 | -226.1 | 1.46 | |
| 10:25 | 9.83 | 250 | 0.3 | 13.90 | 4.170 | 0.37 | 6.54 | -247.8 | 1.15 | |
| 10:30 | 9.72 | 250 | 0.7 | 14.70 | 4.190 | 0.61 | 6.56 | -257.9 | 1.77 | |
| 10:35 | 9.90 | 275 | 1.0 | 13.90 | 4.230 | 0.52 | 6.57 | -263.9 | 0.59 | |
| 10:40 | 9.91 | 275 | 1.4 | 13.40 | 4.200 | 0.43 | 6.56 | -267.2 | 0.76 | |
| 10:45 | 9.91 | 275 | 1.8 | 13.30 | 4.190 | 0.28 | 6.57 | -273.3 | 0.52 | |
| 10:50 | 9.86 | 275 | 2.1 | 13.40 | 4.180 | 0.16 | 6.57 | -283.6 | 0.4 | |
| 10:55 | 9.90 | 275 | 2.5 | 13.30 | 4.170 | 0.12 | 6.58 | -288.7 | 0.22 | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/09/17 | **Time:** 10:55 | **Total Volume of Water Purged (gal):** 2.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments: Duplicate taken at this well**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-15D

**Well Diameter:** 2.0"

**Samplers:**
E. Au
S. Connelly

**Weather:** 55° F, Foggy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/17 **Time:** 8:04 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 7.40

**Depth to Bottom:** 29.21

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:05 | 7.65 | 175 | 0.0 | 16.50 | 1.720 | 8.35 | 6.79 | -272.9 | 2.29 | |
| 8:10 | 8.00 | 275 | 0.4 | 16.90 | 1.880 | 1.90 | 7.10 | -299.1 | 1.78 | |
| 8:15 | 8.10 | 250 | 0.7 | 15.80 | 2.010 | 1.48 | 7.12 | -291.9 | 0.74 | |
| 8:20 | 8.15 | 250 | 1.1 | 15.80 | 2.110 | 1.14 | 7.13 | -318.0 | 0.74 | |
| 8:25 | 8.16 | 250 | 1.4 | 15.70 | 2.150 | 1.14 | 7.12 | -346.0 | 1.05 | |
| 8:30 | 8.19 | 250 | 1.7 | 15.70 | 2.170 | 1.26 | 7.12 | -354.9 | 0.59 | |
| 8:35 | 8.19 | 250 | 2.1 | 15.70 | 2.200 | 1.02 | 7.11 | -360.0 | 0.63 | |
| 8:40 | 8.15 | 250 | 2.4 | 15.70 | 2.210 | 0.76 | 7.11 | -363.0 | 1.01 | |
| 8:45 | 8.10 | 250 | 2.7 | 15.80 | 2.220 | 0.72 | 7.10 | -362.4 | 1.32 | |
| 8:50 | 8.13 | 250 | 3.1 | 15.90 | 2.230 | 0.85 | 7.08 | -358.1 | 2.74 | |
| 8:55 | 8.19 | 250 | 3.4 | 15.70 | 2.230 | 0.84 | 7.10 | -361.1 | 0.62 | |
| 9:00 | 8.21 | 250 | 3.7 | 15.70 | 2.230 | 0.79 | 7.09 | -362.2 | 0.83 | |
| 9:05 | 8.21 | 250 | 4.0 | 15.70 | 2.230 | 0.81 | 7.09 | -361.9 | 0.46 | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/17 **Time:** 9:05

**Total Volume of Water Purged (gal):** 4.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-17D

**Well Diameter:** 2.0" Stickup

**Samplers:**
E. Au
M. Kuczka
S. Connelly

**Weather:** Light Rain

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/09/17 **Time:** 9:25 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 7.56

**Depth to Bottom:** 33.22

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:25 | 7.85 | 225 | 0.0 | 14.70 | 1.520 | 2.36 | 7.35 | -186.5 | 0.25 | |
| 9:30 | 8.22 | 225 | 0.3 | 14.00 | 1.510 | 0.35 | 7.22 | -183.7 | 0.54 | |
| 9:35 | 8.20 | 225 | 0.6 | 14.00 | 1.500 | 0.26 | 7.04 | -193.4 | 0.34 | |
| 9:40 | 8.13 | 225 | 0.9 | 13.90 | 1.630 | 0.20 | 6.96 | -224.4 | 0.23 | |
| 9:45 | 8.13 | 225 | 1.2 | 13.80 | 1.840 | 0.25 | 6.92 | -232.9 | 0.51 | |
| 9:50 | 8.09 | 225 | 1.5 | 13.90 | 2.010 | 0.18 | 6.90 | -236.3 | 0.43 | |
| 9:55 | 8.05 | 225 | 1.8 | 13.80 | 2.060 | 0.14 | 6.90 | -237.1 | 0.06 | |
| 10:00 | 8.00 | 225 | 2.1 | 13.80 | 2.080 | 0.16 | 6.90 | -240.2 | 0.15 | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/09/17 **Time:** 10:05

**Total Volume of Water Purged (gal):** 2.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☐ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☐ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| Site Name: | Well ID: | Well Diameter: |
|---|---|---|
| IP-BP Ekonol | MW-19D | 2.0" |

**Samplers:** M. Kuczka

**Weather:** 60° F, Partially Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | Date: 10/10/17 | Time: 8:05 (hhmm)

feet below top of PVC

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 6.60 | 27.20 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:10 | - | 250 | 0.3 | 16.27 | 4.711 | 9.02 | 6.25 | 28.0 | 6.39 | |
| 8:15 | - | 250 | 0.7 | 15.97 | 5.539 | 2.22 | 6.26 | -2.1 | 10.41 | |
| 8:20 | - | 250 | 1.0 | 16.03 | 5.538 | 2.00 | 6.29 | -2.6 | 4.59 | |
| 8:25 | - | 250 | 1.3 | 16.14 | 5.530 | 1.28 | 6.34 | -4.4 | 5.87 | |
| 8:30 | 6.64 | 250 | 1.7 | 16.12 | 5.366 | 0.76 | 6.38 | -4.1 | 6.5 | |
| 8:35 | 6.64 | 250 | 2.0 | 16.14 | 5.306 | 0.56 | 6.39 | -4.3 | 2.52 | |
| 8:40 | 6.64 | 250 | 2.3 | 16.17 | 5.333 | 0.48 | 6.40 | -5.0 | 2.31 | |
| 8:45 | 6.64 | 250 | 2.6 | 16.28 | 5.369 | 0.40 | 6.41 | -5.7 | 1.75 | |
| 8:50 | 6.64 | 250 | 3.0 | 16.37 | 5.415 | 0.37 | 6.42 | -6.4 | 1.88 | |
| 8:55 | 6.64 | 250 | 3.3 | 16.33 | 5.453 | 0.34 | 6.43 | -6.7 | 4.35 | |
| 9:00 | 6.64 | 250 | 3.6 | 16.37 | 5.474 | 0.34 | 6.43 | -6.8 | 1.91 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/10/17 | **Time:** 9:00 | **Total Volume of Water Purged (gal):** 4.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:** Water probe's first four readings were off/ incorrect. Corrected probe at reading five. Estimated first reading at 6.60'

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** MW-20D

**Well Diameter:** 2.0"

**Samplers:**
E. Au
S. Connelly

**Weather:** 65° F, Cloudy, Drizzle

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:** feet below top of PVC

Method: Low Flow | **Date:** 10/09/17 | **Time:** 11:40 (hhmm)

**Initial Depth to Water:** 7.20 | **Depth to Bottom:** 29.38

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 11:40 | 7.50 | 300 | 0.0 | 17.40 | 1.790 | 1.43 | 7.14 | -250.7 | 1.31 | |
| 11:45 | 7.50 | 300 | 0.4 | 17.30 | 1.820 | 0.22 | 6.99 | -280.9 | 0.89 | |
| 11:50 | 7.48 | 300 | 0.8 | 17.10 | 1.880 | 0.16 | 6.97 | -295.0 | 1.43 | |
| 11:55 | 7.50 | 300 | 1.2 | 17.00 | 3.070 | 0.34 | 6.73 | -296.7 | 0.34 | |
| 12:00 | 7.45 | 300 | 1.6 | 17.00 | 3.280 | 0.26 | 6.71 | -300.4 | 0.19 | |
| 12:05 | 7.43 | 300 | 2.0 | 17.00 | 3.290 | 0.18 | 6.71 | -306.0 | 0.19 | |
| 12:10 | 7.40 | 300 | 2.4 | 17.00 | 3.330 | 0.08 | 6.70 | -316.3 | 0.05 | |
| 12:15 | 7.40 | 300 | 2.8 | 17.00 | 3.310 | 0.06 | 6.71 | -317.7 | 0.55 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/09/17 | **Time:** 12:15 | **Total Volume of Water Purged (gal):** 3.0

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:** MS/ MSD for VOC's only

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☐ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☐ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| | | |
|---|---|---|
| **Site Name:** IP-BP Ekonol | **Well ID:** MW-21D | **Well Diameter:** 4.0" |

**Samplers:**
M. Kuczka

**Weather:**
60° F, Cloudy, Sprinkling

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | **Date:** 10/09/17 | **Time:** 10:37 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 7.25 | **Depth to Bottom:** 31.64

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:40 | 7.25 | 350 | 0.3 | 17.22 | 0.772 | 3.70 | 8.80 | -10.7 | 11.1 | Clear with black specs |
| 10:45 | 7.25 | 325 | 0.7 | 16.71 | 0.773 | 0.65 | 8.60 | -2.1 | 9.83 | |
| 10:50 | 7.25 | 325 | 1.1 | 16.60 | 0.729 | 0.46 | 8.68 | -5.6 | 9.36 | |
| 10:55 | 7.25 | 325 | 1.6 | 16.53 | 0.743 | 0.37 | 8.81 | -4.6 | 7.19 | |
| 11:00 | 7.22 | 325 | 2.0 | 16.46 | 0.787 | 0.35 | 8.85 | -7.2 | 5.21 | Cleared up |
| 11:05 | 7.22 | 325 | 2.4 | 16.43 | 1.235 | 0.34 | 8.21 | -66.8 | 3.62 | |
| 11:10 | 7.17 | 325 | 2.9 | 16.58 | 1.385 | 0.36 | 7.75 | -43.7 | 3.18 | |
| 11:15 | 7.15 | 325 | 3.3 | 16.33 | 1.565 | 0.39 | 7.52 | -30.4 | 2.58 | |
| 11:20 | 7.15 | 325 | 3.7 | 16.41 | 1.651 | 0.41 | 7.36 | -20.7 | 2.6 | |
| 11:25 | 7.15 | 325 | 4.1 | 16.39 | 1.705 | 0.40 | 7.28 | -18.4 | 2.34 | |
| 11:30 | 7.12 | 325 | 4.6 | 16.43 | 1.726 | 0.37 | 7.22 | -17.3 | 1.98 | |
| 11:35 | 7.12 | 325 | 5.0 | 16.38 | 1.785 | 0.36 | 7.16 | -17.0 | 1.95 | |
| 11:40 | 7.12 | 325 | 5.4 | 16.65 | 1.827 | 0.34 | 7.12 | -16.8 | 1.65 | |
| 11:45 | 7.12 | 325 | 5.9 | 16.35 | 1.833 | 0.31 | 7.10 | -17.9 | 1.64 | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/09/17 | **Time:** 11:50 | **Total Volume of Water Purged (gal):** 7.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☐ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☐ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L oly | unpreserved | CENSUS |

AECOM

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

bp

| Site Name: | Well ID: | Well Diameter: |
|---|---|---|
| IP-BP Ekonol | OR-4SM | 2" |

**Samplers:** M. Kuczka

**Weather:** 55°F Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | **Date:** 10/11/2017 | **Time:** 8:00 (hhmm)

**feet below top of PVC**

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 3.50 | 12.32 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:05 | 3.58 | 250 | 0.3 | 18.78 | 3.810 | 8.78 | 6.24 | -44.8 | 13.6 | |
| 8:10 | 3.62 | 250 | 0.7 | 18.08 | 4.147 | 11.76 | 6.49 | -120.5 | 5.06 | |
| 8:15 | 3.65 | 250 | 1.0 | 17.89 | 4.199 | 8.66 | 6.47 | -130.9 | 5.12 | |
| 8:20 | 3.68 | 250 | 1.3 | 17.79 | 4.215 | 6.36 | 6.46 | -132.1 | 5.14 | |
| 8:25 | 3.70 | 250 | 1.7 | 17.72 | 4.235 | 3.01 | 6.46 | -158.9 | 5.82 | |
| 8:30 | 3.72 | 250 | 2.0 | 17.68 | 4.236 | 1.16 | 6.46 | -183.9 | 5.37 | |
| 8:35 | 3.73 | 250 | 2.3 | 17.68 | 4.238 | 0.89 | 6.46 | -205.2 | 5.47 | |
| 8:40 | 3.75 | 250 | 2.6 | 17.58 | 4.249 | 0.65 | 6.46 | -214.7 | 4.98 | |
| 8:45 | 3.76 | 250 | 3.0 | 17.64 | 4.250 | 0.36 | 6.46 | -230.2 | 5.23 | |
| 8:50 | 3.77 | 250 | 3.3 | 17.59 | 4.254 | 0.50 | 6.46 | -215.7 | 4.88 | |
| 8:55 | 3.78 | 250 | 3.6 | 17.65 | 4.247 | 0.40 | 6.46 | -240.0 | 4.75 | |
| 9:00 | 3.79 | 250 | 4.0 | 17.61 | 4.261 | 0.39 | 6.46 | -230.2 | 5.36 | |
| 9:05 | 3.79 | 250 | 4.3 | 17.52 | 4.258 | 0.42 | 6.45 | -248.8 | 4.00 | |
| 9:10 | 3.80 | 250 | 4.6 | 17.43 | 4.271 | 0.43 | 6.45 | -251.1 | 3.52 | |
| 9:15 | 3.81 | 250 | 5.0 | 17.47 | 4.261 | 0.39 | 6.45 | -253.3 | 4.09 | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/11/2017 | **Time:** 09:15 | **Total Volume of Water Purged (gal):** 5.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:** Very bubbly during sampling.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

AECOM

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** OR-6SM

**Well Diameter:** 2"

**Samplers:**
E. Au
S. Connelly

**Weather:** 65°F mostly sunny

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/2017 **Time:** 10:50 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.50

**Depth to Bottom:** 11.62

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:50 | 5.50 | 250 | 0.0 | 19.9 | 6.320 | 2.29 | 6.67 | -358.2 | 12.800 | |
| 10:55 | 6.09 | 250 | 0.3 | 19.7 | 6.270 | 2.56 | 6.65 | -372.7 | 10.750 | |
| 11:00 | 6.09 | 250 | 0.7 | 19.6 | 6.130 | 2.17 | 6.75 | -381.7 | 10.780 | |
| 11:05 | 6.00 | 250 | 1.0 | 20.4 | 6.060 | 1.71 | 6.77 | -388.1 | 6.710 | |
| 11:10 | 5.90 | 250 | 1.3 | 20.9 | 6.010 | 1.35 | 6.786.76 | -377.6 | 5.320 | |
| 11:15 | 6.30 | 250 | 1.7 | 19.9 | 5.950 | 1.02 | 6.78 | -394.5 | 6.450 | |
| 11:20 | 6.29 | 250 | 2.0 | 20.3 | 5.920 | 0.69 | 6.76 | -400.6 | 5.010 | |
| 11:25 | 6.29 | 250 | 2.3 | 20.2 | 5.810 | 0.40 | 6.74 | -404.1 | 4.460 | |
| 11:30 | 6.15 | 250 | 2.6 | 21.0 | 5.760 | 0.33 | 6.72 | -410.2 | 4.290 | |
| 11:35 | 6.10 | 250 | 3.0 | 21.0 | 5.750 | 0.32 | 6.73 | -415.4 | 3.700 | |
| 11:40 | 6.29 | 250 | 3.3 | 20.6 | 5.720 | 0.35 | 6.72 | -419.9 | 3.310 | |
| 11:45 | 6.29 | 250 | 3.6 | 20.8 | 5.670 | 0.33 | 6.71 | -424.0 | 3.450 | well effervescing |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/2017

**Time:** 11:45

**Total Volume of Water Purged (gal):** 3.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:** Well effervescing a little.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** OR-10SM

**Well Diameter:** 2"

**Samplers:** M. Kuczka

**Weather:** 70°F Sunny

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/2017 **Time:** 12:26 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.00

**Depth to Bottom:** 11.53

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 12:30 | - | 150 | 0.2 | 20.67 | 1.377 | 5.72 | 7.01 | -51.4 | 46.9 | water level malfunction, greyish |
| 12:35 | - | 175 | 0.4 | 19.40 | 0.715 | 2.76 | 7.00 | -24.7 | 48.2 | water level malfunction |
| 12:40 | 4.98 | 175 | 0.7 | 19.04 | 0.697 | 2.08 | 6.78 | -55.4 | 39.0 | |
| 12:45 | 4.98 | 200 | 0.9 | 19.00 | 0.802 | 1.93 | 6.69 | -64.7 | 35.6 | |
| 12:50 | 4.99 | 200 | 1.2 | 18.95 | 1.066 | 1.75 | 6.59 | -78.5 | 27.4 | |
| 12:55 | 5.02 | 200 | 1.5 | 18.67 | 1.224 | 1.49 | 6.56 | -87.2 | 22.9 | |
| 13:00 | 5.03 | 200 | 1.7 | 18.90 | 1.423 | 1.23 | 6.55 | -101.5 | 17.2 | |
| 13:05 | 5.03 | 200 | 2.0 | 18.84 | 1.509 | 1.03 | 6.57 | -117.2 | 15.9 | |
| 13:10 | 5.00 | 200 | 2.2 | 18.96 | 1.649 | 0.83 | 6.56 | -127.3 | 13.9 | |
| 13:15 | 5.05 | 200 | 2.5 | 19.01 | 1.761 | 0.62 | 6.55 | -126.7 | 11.18 | |
| 13:20 | 5.06 | 200 | 2.8 | 18.79 | 1.884 | 0.50 | 6.54 | -137.9 | 9.44 | |
| 13:25 | 5.07 | 200 | 3.0 | 18.87 | 1.986 | 0.41 | 6.53 | -155.3 | 8.41 | |
| 13:30 | 5.07 | 200 | 3.3 | 18.89 | 2.058 | 0.38 | 6.54 | -171.0 | 6.84 | |
| 13:35 | 5.08 | 200 | 3.6 | 19.01 | 2.133 | 0.35 | 6.54 | -208.0 | 6.36 | |
| 13:40 | 5.09 | 200 | 3.8 | 18.96 | 2.241 | 0.38 | 6.54 | -229.2 | 5.21 | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/2017

**Time:** 14:35

**Total Volume of Water Purged (gal):** 7

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| Site Name: | Well ID: | Well Diameter: |
|---|---|---|
| IP-BP Ekonol | OR-10SM | 2" |

**Samplers:** M. Kuczka

**Weather:** 70°F Sunny

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | Date: 10/10/2017 | Time: 12:26 (hhmm)

feet below top of PVC

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 5.00 | 11.53 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 13:45 | 5.10 | 200 | 4.1 | 19.06 | 2.316 | 0.41 | 6.53 | -247.8 | 4.81 | |
| 13:50 | 5.11 | 200 | 4.3 | 19.19 | 2.371 | 0.35 | 6.54 | -256.5 | 4.66 | |
| 13:55 | 5.12 | 200 | 4.6 | 19.23 | 2.430 | 0.33 | 6.55 | -259.9 | 5.01 | |
| 14:00 | 5.13 | 200 | 4.9 | 19.14 | 2.478 | 0.36 | 6.54 | -261.2 | 4.49 | |
| 14:05 | 5.14 | 200 | 5.1 | 19.20 | 2.543 | 0.34 | 6.53 | -267.5 | 4.55 | |
| 14:10 | 5.14 | 200 | 5.4 | 19.17 | 2.597 | 0.33 | 6.53 | -260.9 | 4.50 | |
| 14:15 | 5.14 | 200 | 5.6 | 19.21 | 2.675 | 0.36 | 6.53 | -268.3 | 6.36 | |
| 14:20 | 5.12 | 200 | 5.9 | 19.19 | 2.715 | 0.38 | 6.53 | -276.0 | 5.42 | pump slowed down, so turned back up |
| 14:25 | 5.15 | 200 | 6.2 | 19.13 | 2.767 | 0.34 | 6.52 | -277.4 | 5.16 | |
| 14:30 | 5.16 | 200 | 6.4 | 18.94 | 2.812 | 0.39 | 6.51 | -276.4 | 7.63 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/10/2017 | **Time:** 14:35 | **Total Volume of Water Purged (gal):** 7

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** OR-14SM

**Well Diameter:** 2"

**Samplers:**
E. Au
S. Connelly

**Weather:** 65°F Sunny

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/2017 **Time:** 12:25 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 4.43

**Depth to Bottom:** 11.50

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 12:25 | 4.43 | 175 | 0.0 | 21.00 | 0.680 | 3.70 | 12.13 | -349.9 | 40.0 | |
| 12:30 | 5.00 | 175 | 0.2 | 20.30 | 0.332 | 0.63 | 12.50 | -365.9 | 38.0 | |
| 12:35 | 4.90 | 175 | 0.5 | 21.10 | 0.233 | 0.47 | 7.37 | -366.6 | 31.0 | |
| 12:40 | 4.90 | 125 | 0.6 | 20.80 | 0.297 | 0.51 | 7.12 | -361.9 | 17.7 | |
| 12:45 | 4.90 | 175 | 0.9 | 20.20 | 0.300 | 0.34 | 7.36 | -381.7 | 11.9 | |
| 12:50 | 5.15 | 175 | 1.1 | 20.30 | 0.326 | 0.28 | 9.50 | -385.6 | 7.78 | |
| 12:55 | 5.05 | 175 | 1.3 | 20.60 | 0.374 | 0.28 | 7.61 | -388.4 | 5.51 | |
| 13:00 | 5.05 | 175 | 1.6 | 20.70 | 0.396 | 0.31 | 7.76 | -390.3 | 4.47 | |
| 13:05 | 5.00 | 175 | 1.8 | 20.90 | 0.436 | 0.34 | 7.37 | -389.7 | 3.28 | |
| 13:10 | 5.05 | 175 | 2.0 | 20.70 | 0.466 | 0.40 | 9.22 | -394.7 | 2.29 | |
| 13:15 | 5.10 | 175 | 2.2 | 20.70 | 0.502 | 0.44 | 13.72 | -400.4 | 2.05 | |
| 13:20 | 5.05 | 175 | 2.5 | 20.70 | 0.542 | 0.48 | 13.82 | -401.4 | 1.52 | |
| 13:25 | 5.05 | 175 | 2.7 | 20.80 | 0.580 | 0.53 | 13.10 | -401.8 | 1.52 | |
| 13:30 | 5.10 | 175 | 2.9 | 20.70 | 0.630 | 0.56 | 12.54 | -397.6 | 1.46 | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/2017

**Time:** 13:35

**Total Volume of Water Purged (gal):** 3

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:** pH probe is possibly malfunctioning.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** OR-18SM

**Well Diameter:** 2"

**Samplers:**
E. Au
S. Connelly

**Weather:** 60°F, steady rain

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/11/2017 **Time:** 10:45 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 4.80

**Depth to Bottom:** 12.04

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:45 | 4.80 | 225 | 0.0 | 15.1 | 1.63 | 4.82 | 6.85 | -329.5 | 88.0 | |
| 10:50 | 4.95 | 225 | 0.3 | 15.2 | 1.46 | 4.51 | 6.83 | -324.0 | 24.7 | air bubbles in line, well degassing |
| 10:55 | 4.98 | 225 | 0.6 | 15.6 | 1.51 | 4.32 | 6.86 | -331.0 | 135.0 | |
| 11:00 | 4.98 | 225 | 0.9 | 15.5 | 1.59 | 3.46 | 6.84 | -334.2 | 91.9 | |
| 11:05 | 4.98 | 225 | 1.2 | 15.4 | 1.62 | 3.20 | 6.82 | -332.2 | 6.13 | |
| 11:10 | 5.00 | 225 | 1.5 | 15.3 | 1.64 | 1.88 | 6.82 | -328.5 | 3.89 | |
| 11:15 | 5.00 | 225 | 1.8 | 15.2 | 1.65 | 1.55 | 6.81 | -323.3 | 4.42 | |
| 11:20 | 5.00 | 225 | 2.1 | 15.2 | 1.55 | 3.74 | 6.81 | -326.4 | 4.99 | |
| 11:25 | 5.00 | 225 | 2.4 | 15.2 | 1.66 | 5.54 | 6.81 | -292.2 | 5.74 | |
| 11:30 | 5.00 | 225 | 2.7 | 15.2 | 1.66 | 2.10 | 6.81 | -322.4 | 6.06 | |
| 11:35 | 5.00 | 225 | 3.0 | 15.3 | 1.67 | 1.91 | 6.80 | -293.0 | 5.28 | |
| 11:40 | 5.00 | 225 | 3.3 | 15.3 | 1.67 | 2.30 | 6.80 | -301.5 | 5.14 | |
| 11:45 | 5.00 | 225 | 3.6 | 15.3 | 1.67 | 2.29 | 6.81 | -292.7 | 5.01 | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/11/2017

**Time:** 11:45

**Total Volume of Water Purged (gal):** 3.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| | | |
|---|---|---|
| **Site Name:** IP-BP Ekonol | **Well ID:** PMW-1S | **Well Diameter:** 2" |

**Samplers:**
E. Au
S. Connelly

**Weather:** 60°F, cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | **Date:** 10/11/2017 | **Time:** 8:15 (hhmm)

**feet below top of PVC**

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 2.05 | 12.02 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:15 | 2.05 | 210 | 0.0 | 17.5 | 4.74 | 1.46 | 6.79 | -322.9 | 8.77 | |
| 8:20 | 2.30 | 210 | 0.3 | 18.0 | 4.89 | 1.83 | 6.65 | -350.1 | 4.05 | |
| 8:25 | 2.35 | 210 | 0.6 | 17.4 | 4.82 | 0.49 | 6.62 | -366.3 | 3.22 | |
| 8:30 | 2.35 | 210 | 0.8 | 17.3 | 4.84 | 0.34 | 6.63 | -374.0 | 2.79 | |
| 8:35 | 2.37 | 210 | 1.1 | 17.2 | 4.79 | 0.28 | 6.62 | -376.4 | 1.90 | |
| 8:40 | 2.37 | 210 | 1.4 | 17.2 | 4.82 | 0.24 | 6.63 | -379.6 | 2.68 | |
| 8:45 | 2.37 | 210 | 1.7 | 17.0 | 4.80 | 0.27 | 6.62 | -381.0 | 1.78 | |
| 8:50 | 2.37 | 210 | 1.9 | 17.1 | 4.78 | 0.24 | 6.61 | -381.9 | 1.58 | |
| 8:55 | 2.37 | 210 | 2.2 | 17.1 | 4.74 | 0.24 | 6.61 | -382.6 | 1.85 | |
| 9:00 | 2.40 | 210 | 2.5 | 17.0 | 4.70 | 0.26 | 6.60 | -382.2 | 1.54 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/11/2017 | **Time:** 9:05 | **Total Volume of Water Purged (gal):** 3

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
Collected MS/MSD for VOCs only

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-1D

**Well Diameter:** 4"

**Samplers:**
S. Connnelly

**Weather:**
60°F, Cloudy, light drizzle, windy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/12/2017 **Time:** 9:00 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 6.8

**Depth to Bottom:** 23.00

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:00 | 6.80 | 225 | 0.3 | 15.06 | 3.848 | 3.92 | 7.13 | -94.9 | 15.5 | |
| 9:05 | 7.40 | 225 | 0.6 | 12.12 | 3.881 | 3.55 | 7.14 | -107.7 | 15.6 | |
| 9:10 | 7.82 | 225 | 0.9 | 15.15 | 3.859 | 3.03 | 7.19 | -114.3 | 14.8 | |
| 9:15 | 8.25 | 225 | 1.2 | 15.20 | 3.820 | 2.43 | 7.26 | -126.4 | 12.9 | |
| 9:20 | 8.62 | 225 | 1.5 | 15.24 | 3.792 | 2.22 | 7.29 | -158.9 | 16.4 | |
| 9:25 | 9.10 | 225 | 1.8 | 15.30 | 3.776 | 2.05 | 7.29 | -167.5 | 17.3 | |
| 9:30 | 9.50 | 225 | 2.1 | 15.33 | 3.750 | 1.86 | 7.29 | -166.1 | 16.7 | |
| 9:35 | 10.00 | 225 | 2.4 | 15.48 | 3.730 | 1.75 | 7.27 | -152.6 | 18.5 | |
| 9:40 | 10.42 | 225 | 2.7 | 15.56 | 3.729 | 1.73 | 7.22 | -150.2 | 21.0 | |
| 9:45 | 10.90 | 225 | 3.0 | 15.61 | 3.716 | 1.68 | 7.20 | -146.2 | 23.4 | |
| 9:50 | 11.30 | 225 | 3.3 | 15.68 | 3.701 | 1.65 | 7.21 | -138.1 | 23.3 | |
| 9:55 | 11.80 | 225 | 3.6 | 15.71 | 3.702 | 1.60 | 7.20 | -133.5 | 24.5 | |
| 10:00 | 12.20 | 225 | 3.9 | 15.67 | 3.696 | 1.49 | 7.20 | -135.3 | 24.2 | |
| 10:05 | 12.70 | 225 | 4.2 | 15.67 | 3.709 | 1.61 | 7.19 | -133.5 | 25.3 | |
| 10:10 | 13.02 | 225 | 4.5 | 15.58 | 3.726 | 1.68 | 7.16 | -132.2 | 26.3 | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/12/2017 **Time:** 10:35

**Total Volume of Water Purged (gal):** 6.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

AECOM

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-1D

**Well Diameter:** 4"

**Samplers:**
S. Connnelly

**Weather:**
60°F, Cloudy, light drizzle, windy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/12/2017 **Time:** 9:00 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 6.8

**Depth to Bottom:** 23.00

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:15 | 13.50 | 225 | 4.8 | 15.56 | 3.728 | 1.70 | 7.15 | -135.7 | 26.0 | |
| 10:20 | 13.95 | 225 | 5.1 | 15.54 | 3.752 | 1.86 | 7.14 | -138.8 | 27.9 | |
| 10:25 | 14.38 | 225 | 5.4 | 15.45 | 3.770 | 1.99 | 7.11 | -140.2 | 28.1 | |
| 10:30 | 14.80 | 225 | 5.7 | 15.49 | 3.778 | 1.95 | 7.10 | -132.8 | 27.8 | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/12/2017

**Time:** 10:35

**Total Volume of Water Purged (gal):** 6.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-2D

**Well Diameter:** 2"

**Samplers:** S. Connelly

**Weather:** 65°F, Partially cloudy, slight breeze

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/12/2017 **Time:** (hhmm) 12:40

**feet below top of PVC**

**Initial Depth to Water:** 6.25

**Depth to Bottom:** 23.95

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 12:40 | 6.25 | 115 | 0.0 | 17.60 | 5.563 | 0.48 | 6.79 | -330.9 | 3.19 | |
| 12:45 | 6.80 | 125 | 0.2 | 17.80 | 5.571 | 0.52 | 6.67 | -330.4 | 3.25 | |
| 12:50 | 7.90 | 125 | 0.3 | 18.00 | 5.605 | 1.11 | 6.65 | -331.4 | 2.72 | |
| 12:55 | 8.50 | 125 | 0.5 | 17.87 | 5.604 | 1.50 | 6.63 | -331.5 | 2.89 | |
| 13:00 | 9.25 | 150 | 0.7 | 17.48 | 5.602 | 1.72 | 6.60 | -331.5 | 2.27 | |
| 13:05 | 10.75 | 150 | 0.9 | 17.21 | 5.598 | 1.55 | 6.59 | -330.6 | 3.04 | |
| 13:10 | 10.95 | 150 | 1.1 | 17.06 | 5.596 | 1.37 | 6.58 | -329.3 | 2.38 | |
| 13:15 | 11.65 | 150 | 1.3 | 16.85 | 5.591 | 1.23 | 6.57 | -326.6 | 2.48 | |
| 13:20 | 12.35 | 150 | 1.5 | 16.67 | 5.586 | 1.20 | 6.57 | -324.3 | 2.52 | |
| 13:25 | 13.00 | 175 | 1.7 | 16.56 | 5.586 | 1.25 | 6.56 | -322.9 | 2.13 | |
| 13:30 | 13.70 | 200 | 2.0 | 16.53 | 5.583 | 1.73 | 6.56 | -323.6 | 2.82 | |
| 13:35 | 14.50 | 200 | 2.2 | 16.63 | 5.573 | 1.77 | 6.54 | -323.5 | 2.18 | |
| 13:40 | 15.20 | 200 | 2.5 | 16.67 | 5.573 | 2.00 | 6.51 | -322.9 | 2.05 | |
| 13:45 | 15.85 | 200 | 2.8 | 16.76 | 5.573 | 2.30 | 6.49 | -321.9 | 2.63 | |
| 13:50 | 16.30 | 200 | 3.0 | 16.67 | 5.572 | 2.34 | 6.48 | -321.2 | 2.74 | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/12/2017

**Time:** 14:30

**Total Volume of Water Purged (gal):** 5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| Site Name: | Well ID: | Well Diameter: |
|---|---|---|
| IP-BP Ekonol | PMW-2D | 2" |

**Samplers:** S. Connelly

**Weather:** 65°F, Partially cloudy, slight breeze

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | Date: 10/12/2017 | Time: 12:40 (hhmm)

feet below top of PVC

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 6.25 | 23.95 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 13:55 | 16.25 | 200 | 3.3 | 16.69 | 5.562 | 2.59 | 6.76 | -320.4 | 2.46 | |
| 14:00 | 16.67 | 200 | 3.5 | 16.70 | 5.554 | 3.01 | 6.44 | -319.8 | 2.20 | |
| 14:05 | 16.98 | 200 | 3.8 | 16.57 | 5.526 | 3.44 | 6.41 | -318.2 | 2.50 | |
| 14:10 | 17.32 | 200 | 4.1 | 16.52 | 5.483 | 3.79 | 6.39 | -316.8 | 2.01 | |
| 14:15 | 17.70 | 200 | 4.3 | 16.45 | 5.449 | 4.15 | 6.35 | -316.3 | 2.65 | |
| 14:20 | 17.85 | 150 | 4.5 | 16.49 | 5.424 | 4.32 | 6.34 | -315.4 | 2.78 | |
| 14:25 | 18.00 | 150 | 4.7 | 16.63 | 5.413 | 4.48 | 6.32 | -314.5 | 3.25 | |
| 14:30 | 18.10 | 150 | 4.9 | 16.63 | 5.369 | 4.72 | 6.30 | -315.5 | 4.73 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/12/2017 | **Time:** 14:30 | **Total Volume of Water Purged (gal):** 5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

AECOM

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

bp

| Site Name: | Well ID: | Well Diameter: |
|---|---|---|
| IP-BP Ekonol | PMW-3S | 2" |

**Samplers:**
E.Au
M. Kuczka

**Weather:**
50°F, Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

Date: 10/12/2017 Time: 10:36 (hhmm)

feet below top of PVC

Initial Depth to Water: 5.05

Depth to Bottom: 11.7

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:40 | 5.55 | 275 | 0.3 | 16.5 | 6.68 | 1.87 | 6.76 | -255.2 | 50.1 | clear with black flecks |
| 10:45 | 6.51 | 150 | 0.5 | 17.5 | 6.99 | 0.52 | 6.58 | -318.2 | 33.2 | |
| 10:50 | 6.52 | 150 | 0.7 | 17.0 | 7.06 | 3.70 | 6.65 | -252.7 | 31.2 | |
| 10:55 | 6.52 | 150 | 0.9 | 16.8 | 5.83 | 5.78 | 6.69 | -240.3 | 66.9 | |
| 11:00 | 6.91 | 250 | 1.2 | 17.1 | 6.56 | 0.41 | 6.57 | -307.7 | 51.2 | |
| 11:05 | 7.05 | 200 | 1.5 | 17.0 | 6.35 | 0.40 | 6.53 | -337.2 | 46.4 | |
| 11:10 | 7.26 | 200 | 1.7 | 17.0 | 6.10 | 0.30 | 6.53 | -345.2 | 39.6 | |
| 11:15 | 7.33 | 200 | 2.0 | 17.1 | 5.94 | 0.20 | 6.53 | -349.1 | 34.4 | |
| 11:20 | 7.36 | 200 | 2.3 | 17.1 | 5.72 | 0.26 | 6.53 | -352.6 | 26.8 | |
| 11:25 | 7.41 | 200 | 2.5 | 17.1 | 6.64 | 0.24 | 6.53 | -355.3 | 20.8 | |
| 11:30 | 7.45 | 200 | 2.8 | 17.1 | 5.46 | 0.22 | 6.53 | -359.5 | 17.5 | |
| 11:35 | 7.46 | 200 | 3.1 | 17.0 | 5.33 | 0.18 | 6.53 | -363.0 | 17.3 | |
| 11:40 | 7.47 | 200 | 3.3 | 17.0 | 5.19 | 0.20 | 6.53 | -365.4 | 15.4 | |
| 11:45 | 7.47 | 200 | 3.6 | 17.1 | 5.00 | 0.16 | 6.52 | -367.2 | 12.8 | |
| 11:50 | 7.49 | 200 | 3.9 | 17.1 | 4.97 | 0.16 | 6.53 | -368.8 | 11.5 | |

**Sample Collection Method:** Peristaltic Pump

Date: 10/12/17

Time: 11:50

Total Volume of Water Purged (gal): 4

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-4S

**Well Diameter:** 2"

**Samplers:**
E.Au
S. Connelly

**Weather:** 70°F, Sunny, clear

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/2017 **Time:** 14:10 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.10

**Depth to Bottom:** 11.60

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 14:10 | 5.10 | 175 | 0.0 | 22.6 | 0.318 | 5.42 | 8.78 | -190.8 | 22.3 | |
| 14:15 | 5.95 | 175 | 0.2 | 21.2 | 0.227 | 2.03 | 9.35 | -221.6 | 21.4 | |
| 14:20 | 6.90 | 175 | 0.5 | 21.0 | 0.191 | 1.89 | 9.51 | -225.5 | 19.9 | |
| 14:25 | 7.10 | 175 | 0.7 | 21.1 | 0.217 | 3.57 | 9.34 | -203.4 | 19.5 | |
| 14:30 | 7.10 | 175 | 0.9 | 21.1 | 0.261 | 4.77 | 7.13 | -202.0 | 15.6 | air slugs, lowered tubing |
| 14:35 | 7.70 | 175 | 1.2 | 18.1 | 0.245 | 1.77 | 7.14 | -240.3 | 15.7 | |
| 14:40 | 8.00 | 175 | 1.4 | 18.4 | 0.388 | 0.29 | 7.06 | -252.5 | 19.6 | |
| 14:45 | 8.08 | 175 | 1.6 | 18.7 | 0.504 | 0.27 | 7.03 | -256.9 | 11.9 | |
| 14:50 | 8.25 | 175 | 1.8 | 18.7 | 0.567 | 0.32 | 7.03 | -259.2 | 7.22 | |
| 14:55 | 8.50 | 175 | 2.1 | 18.7 | 0.64 | 0.41 | 7.02 | -262.1 | 2.96 | |
| 15:00 | 8.70 | 175 | 2.3 | 18.7 | 0.73 | 0.55 | 7.00 | -275.3 | 3.28 | |
| 15:05 | 8.95 | 175 | 2.5 | 18.6 | 0.83 | 0.64 | 7.01 | -287.7 | 3.12 | |
| 15:10 | 9.18 | 175 | 2.8 | 18.5 | 0.88 | 0.74 | 7.03 | -291.2 | 1.25 | |
| 15:15 | 9.40 | 175 | 3.0 | 18.3 | 0.82 | 0.66 | 7.08 | -302.0 | 1.59 | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/2017 **Time:** 15:15

**Total Volume of Water Purged (gal):** 3

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-6S

**Well Diameter:** 2"

**Samplers:** M. Kuczka

**Weather:** 50°F, raining

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/11/2017 **Time:** 9:37 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.46

**Depth to Bottom:** 11.96

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:40 | 6.04 | 125 | 0.1 | 17.18 | 4.049 | 7.04 | 6.74 | -181.9 | 9.53 | |
| 9:45 | 6.45 | 125 | 0.3 | 17.01 | 4.201 | 3.65 | 6.62 | -190.3 | 11.80 | |
| 9:50 | 6.69 | 125 | 0.4 | 16.88 | 4.204 | 1.32 | 6.57 | -185.1 | 10.18 | |
| 9:55 | 6.94 | 125 | 0.6 | 16.78 | 4.198 | 0.78 | 6.55 | -177.2 | 9.37 | |
| 10:00 | 7.07 | 125 | 0.8 | 16.72 | 4.201 | 0.73 | 6.54 | -167.1 | 7.39 | |
| 10:05 | 7.12 | 125 | 0.9 | 16.68 | 4.202 | 0.68 | 6.53 | -171.1 | 5.61 | |
| 10:10 | 7.21 | 125 | 1.1 | 16.63 | 4.202 | 0.71 | 6.53 | -165.9 | 5.36 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/11/2017 **Time:** 10:10

**Total Volume of Water Purged (gal):** 1.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
Slightly effervescent.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-6D

**Well Diameter:** 2"

**Samplers:**
E.Au
S. Connelly

**Weather:** 65°F, mostly sunny

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/2017 **Time:** 15:40 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 10:00

**Depth to Bottom:** 25.14

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 15:40 | 10.00 | 300 | 0.0 | 16.3 | 4.81 | 1.09 | 6.83 | -364.0 | 9.48 | |
| 15:45 | 11.32 | 200 | 0.3 | 16.3 | 4.66 | 1.50 | 6.91 | -372.0 | 9.33 | |
| 15:50 | 12.80 | 200 | 0.5 | 16.3 | 4.53 | 1.60 | 6.96 | -375.1 | 9.66 | |
| 15:55 | 14.20 | 200 | 0.8 | 16.2 | 4.51 | 1.51 | 6.98 | -374.9 | 9.47 | |
| 16:00 | 15.25 | 200 | 1.1 | 16.1 | 4.49 | 1.42 | 7.00 | -377.4 | 9.43 | |
| 16:05 | 16.60 | 200 | 1.3 | 16.1 | 4.48 | 1.35 | 7.01 | -377.0 | 9.09 | |
| 16:10 | 17.60 | 200 | 1.6 | 16.2 | 4.49 | 1.26 | 7.01 | -373.0 | 8.80 | |
| 16:15 | 18.60 | 200 | 1.8 | 16.2 | 4.48 | 1.13 | 7.01 | -374.0 | 9.02 | |
| 16:20 | 19.30 | 200 | 2.1 | 16.3 | 4.49 | 1.04 | 7.02 | -378.3 | 9.40 | |
| 16:25 | 20.60 | 200 | 2.4 | 15.8 | 4.48 | 0.88 | 7.01 | -379.2 | 10.36 | |
| 16:30 | 21.25 | 200 | 2.6 | 16.1 | 4.49 | 0.76 | 7.02 | -377.8 | 9.34 | |
| 16:35 | 22.10 | 200 | 2.9 | 16.6 | 4.51 | 0.55 | 7.02 | -374.7 | 9.40 | air in line |
| 16:40 | 22.55 | 200 | 3.2 | 17.0 | 4.54 | 0.46 | 7.01 | -374.6 | 10.51 | Dry; let recharge |
| | | | | | | | | | | |
| 7:50 | 11.90 | 200 | - | 14.6 | 5.180 | 0.19 | 6.71 | -363.3 | 11.30 | 10/11/17 - Grab sampled |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/11/2017 **Time:** 7:50

**Total Volume of Water Purged (gal):** 3.25

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:** Vent under slight pressure on opening, has a vent.

Well went dry on 10/10/17. Let recharge overnight.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-8D

**Well Diameter:** 2"

**Samplers:** S. Connelly

**Weather:** 60°F, windy, overcast

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/12/2017 **Time:** 11:05 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.9

**Depth to Bottom:** 24.31

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 11:05 | 5.90 | 350 | 0.0 | 15.85 | 4.991 | 15.32 | 7.02 | -326.9 | 3.68 | DO high; malfunction |
| 11:10 | 6.85 | 200 | 0.3 | 15.83 | 4.980 | 10.80 | 6.89 | -332.4 | 2.06 | DO high; malfunction |
| 11:15 | 7.10 | 200 | 0.5 | 15.99 | 4.863 | 35.35 | 6.82 | -331.6 | 2.06 | DO high; malfunction |
| 11:20 | 7.15 | 225 | 0.8 | 16.17 | 4.741 | 45.77 | 6.77 | -334.5 | 0.74 | DO high; malfunction |
| 11:25 | 7.50 | 225 | 1.1 | 16.11 | 4.740 | 54.40 | 6.75 | -333.9 | 0.78 | DO high; malfunction; Probe cleaned |
| 11:30 | 7.10 | 225 | 1.4 | 16.24 | 4.720 | 30.47 | 6.77 | -339.4 | 1.26 | DO high; malfunction |
| 11:35 | 7.15 | 225 | 1.7 | 16.13 | 4.807 | 34.83 | 6.72 | -339.4 | 0.90 | DO high; malfunction |
| 11:40 | 7.15 | 225 | 2.0 | 16.17 | 4.848 | 37.56 | 6.70 | -339.3 | 1.07 | DO high; malfunction |
| 11:45 | 7.15 | 225 | 2.3 | 16.28 | 4.926 | 39.26 | 6.69 | -340.3 | 0.60 | DO high; malfunction |
| 11:50 | 7.15 | 225 | 2.6 | 16.28 | 4.971 | 40.38 | 6.70 | -341.0 | 1.24 | DO high; malfunction |
| 11:55 | 7.15 | 225 | 2.9 | 16.37 | 4.995 | 0.27 | 6.67 | -344.0 | 2.74 | took DO w/another probe |
| | | | | | | | | | | stand alone reading. |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/12/2017

**Time:** 11:55

**Total Volume of Water Purged (gal):** 3

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
DO probe malfunction. Probe fouled. Collected final DO with another probe. Changed probe and recalibrated after finishing this well.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| Site Name: | Well ID: | Well Diameter: |
|---|---|---|
| IP-BP Ekonol | PMW-9D | 4" |

**Samplers:**
E. Au
S. Connelly

**Weather:**
50°F, rain

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | Date: 10/11/2017 | Time: 12:20 (hhmm)

feet below top of PVC

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 6.05 | 14.00 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 12:20 | 6.05 | 180 | 0.0 | 15.3 | 3.15 | 1.37 | 7.55 | -289.2 | 9.17 | |
| 12:25 | 6.68 | 180 | 0.2 | 15.3 | 3.23 | 0.20 | 7.91 | -329.0 | 7.47 | |
| 12:30 | 7.10 | 180 | 0.5 | 15.3 | 3.19 | 0.15 | 7.88 | -335.7 | 6.51 | |
| 12:35 | 7.68 | 200 | 0.7 | 15.5 | 3.16 | 0.16 | 7.81 | -341.9 | 7.79 | |
| 12:40 | 8.00 | 200 | 1.0 | 15.7 | 3.18 | 0.19 | 7.72 | -341.8 | 6.80 | |
| 12:45 | 8.46 | 200 | 1.3 | 15.7 | 3.15 | 0.20 | 7.64 | -343.0 | 7.28 | |
| 12:50 | 8.76 | 200 | 1.5 | 15.8 | 3.15 | 0.19 | 7.56 | -342.0 | 9.03 | |
| 12:55 | 9.18 | 200 | 1.8 | 15.8 | 3.14 | 0.26 | 7.43 | -339.0 | 8.48 | |
| 13:00 | 9.45 | 200 | 2.1 | 15.8 | 3.14 | 0.29 | 7.39 | -338.2 | 8.13 | |
| 13:05 | 9.80 | 200 | 2.3 | 15.8 | 3.20 | 0.44 | 7.23 | -340.9 | 10.33 | |
| 13:10 | 10.22 | 325 | 2.8 | 16.0 | 3.22 | 0.57 | 7.15 | -347.2 | 1.00 | |
| 13:15 | 10.75 | 325 | 3.2 | 15.8 | 3.26 | 0.20 | 7.08 | -318.7 | 1.00 | |
| 13:20 | 11.20 | 325 | 3.6 | 15.8 | 3.32 | 0.14 | 7.02 | -323.7 | 2.00 | |
| 13:25 | 11.70 | 325 | 4.0 | 15.6 | 3.42 | 0.13 | 6.92 | -331.9 | 1.00 | |
| 13:30 | 12.10 | 325 | 4.5 | 15.6 | 3.55 | 0.12 | 6.83 | -342.9 | 10.39 | near bottom; high turbidity |

| Sample Collection Method: | Date: | Time: | Total Volume of Water Purged (gal): |
|---|---|---|---|
| Peristaltic Pump | 10/12/2017 | 8:10 | 8.25 |

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
Well went dry on 10/11/17; let rechared overnight; sampled 10/12/17.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

| Site Name: | Well ID: | Well Diameter: |
|---|---|---|
| IP-BP Ekonol | PMW-9D | 4" |

**Samplers:**
E. Au
S. Connelly

**Weather:**
50°F, rain

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow | Date: 10/11/2017 | Time: 12:20 (hhmm)

feet below top of PVC

| Initial Depth to Water | Depth to Bottom |
|---|---|
| 6.05 | 14.00 |

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 13:35 | 12.50 | 325 | 4.9 | 15.3 | 3.68 | 0.11 | 6.79 | -360.1 | 1779 | near bottom; turbid |
| 13:40 | 12.85 | 325 | 5.4 | 15.3 | 3.80 | 0.20 | 6.77 | -304.3 | 2056 | near bottom; turbid |
| 13:45 | 13.05 | 325 | 5.8 | 15.2 | 3.91 | 0.08 | 6.71 | -334.3 | 3378 | near bottom; turbid |
| 13:50 | 13.40 | 325 | 6.2 | 15.1 | 4.00 | 0.07 | 6.68 | -356.3 | 3510 | near bottom; turbid |
| 13:55 | 13.68 | 325 | 6.6 | 15.1 | 4.10 | 0.07 | 6.65 | -347.3 | over range | near bottom; turbid |
| 14:00 | 14.00 | 325 | 7.1 | 15.0 | 4.00 | 0.06 | 6.63 | -339.6 | over range | well dry after reading |
| | | | | | | | | | | |
| 8:20 | 7.25 | 325 | 8.0 | 15.4 | 3.93 | 4.02 | 6.63 | -39.5 | equipment malfuction | 10/12/2017 - Grab sample |
| | | | | | | | | | | DTW = 5.50' at 8:05 on pump restart |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Sample Collection Method: | Date: | Time: | Total Volume of Water Purged (gal): |
|---|---|---|---|
| Peristaltic Pump | 10/12/2017 | 8:10 | 8.25 |

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
Well went dry on 10/11/17; let rechared overnight; sampled 10/12/17.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-10D

**Well Diameter:** 4"

**Samplers:**
E.Au
M. Kuczka

**Weather:** 50°F, Cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/12/2017 **Time:** 12:12 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.95

**Depth to Bottom:** 21.4

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 12:15 | 6.10 | 215 | 0.2 | 16.9 | 4.67 | 0.80 | 7.14 | -329.2 | 17.0 | clear with black flecks |
| 12:20 | 6.45 | 215 | 0.5 | 16.5 | 3.01 | 0.93 | 6.64 | -355.5 | 15.4 | |
| 12:25 | 6.75 | 210 | 0.7 | 16.5 | 2.87 | 0.31 | 6.62 | -353.5 | 10.71 | |
| 12:30 | 6.90 | 210 | 1.0 | 16.6 | 2.82 | 0.18 | 6.61 | -356.7 | 12.2 | |
| 12:35 | 7.00 | 210 | 1.3 | 16.7 | 2.74 | 0.13 | 6.61 | -365.7 | 11.3 | |
| 12:40 | 7.01 | 210 | 1.6 | 16.8 | 2.50 | 0.16 | 6.62 | -368.8 | 10.89 | |
| 12:45 | 8.25 | 210 | 1.8 | 16.9 | 2.23 | 0.10 | 6.56 | -376.1 | 9.79 | |
| 12:50 | 8.43 | 210 | 2.1 | 17.1 | 2.10 | 0.13 | 6.49 | -374.0 | 9.64 | |
| 12:55 | 8.58 | 210 | 2.4 | 17.1 | 2.06 | 0.09 | 6.45 | -393.0 | 8.13 | |
| 13:00 | 8.78 | 210 | 2.7 | 16.9 | 2.05 | 0.09 | 6.38 | -397.7 | 8.75 | |
| 13:05 | 8.98 | 210 | 3.0 | 16.9 | 2.04 | 0.07 | 6.35 | -383.1 | 10.29 | |
| 13:10 | 9.11 | 210 | 3.2 | 16.8 | 2.08 | 0.08 | 6.34 | *-385.1 | 7.57 | |
| 13:15 | 9.23 | 210 | 3.5 | 16.6 | 2.15 | 0.04 | 6.33 | -399.7 | 8.18 | |
| 13:20 | 9.29 | 210 | 3.8 | 16.5 | 2.21 | 0.07 | 6.31 | -404.4 | 7.49 | |
| 13:25 | 9.37 | 210 | 4.1 | 16.5 | 2.25 | 0.05 | 6.29 | -411.3 | 6.95 | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/12/2017 **Time:** 13:25

**Total Volume of Water Purged (gal):** 4.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

AECOM

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-11D

**Well Diameter:** 4"

**Samplers:** M. Kuczka

**Weather:** 50°F, Raining

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/11/2017 **Time:** 10:51 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 6.26

**Depth to Bottom:** 14.30

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:55 | 6.35 | 450 | 0.5 | 15.54 | 1.955 | 11.03 | 7.76 | -268.9 | equipment malfuction | very dark; lots of flecks |
| 11:00 | 6.35 | 375 | 1.0 | 15.29 | 1.886 | 2.63 | 7.51 | -300.8 | 4.19 | |
| 11:05 | 6.35 | 375 | 1.5 | 15.11 | 1.752 | 1.96 | 7.34 | -291.8 | 4.03 | |
| 11:10 | 6.35 | 375 | 2.0 | 14.95 | 1.703 | 1.30 | 7.21 | -283.8 | 3.30 | |
| 11:15 | 6.35 | 375 | 2.5 | 14.99 | 1.687 | 1.22 | 7.16 | -281.2 | 2.98 | |
| 11:20 | 6.35 | 375 | 3.0 | 14.99 | 1.672 | 1.02 | 7.12 | -276.2 | equipment malfuction | water causing turbidity meter to read negative |
| 11:25 | 6.35 | 375 | 3.4 | 14.97 | 1.668 | 1.17 | 7.11 | -275.3 | 2.12 | |
| 11:30 | 6.35 | 375 | 3.9 | 14.99 | 1.661 | 0.90 | 7.09 | -272.5 | 1.93 | |
| 11:35 | 6.35 | 375 | 4.4 | 15.02 | 1.661 | 1.09 | 7.08 | -273.5 | 2.09 | |
| 11:40 | 6.35 | 375 | 4.9 | 14.99 | 1.659 | 1.04 | 7.07 | -271.4 | 1.98 | |
| 11:45 | 6.35 | 375 | 5.4 | 15.03 | 1.655 | 1.08 | 7.06 | -271.6 | 1.46 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/11/2017 **Time:** 11:45

**Total Volume of Water Purged (gal):** 7.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-16D

**Well Diameter:** 4"

**Samplers:**
E. Au
M. Kuczka

**Weather:** 60°F

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/13/2017 **Time:** 10:35 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 6.04

**Depth to Bottom:** 21.81

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 10:35 | 6.04 | 350 | 0.0 | 16.1 | 1.81 | 0.35 | 8.24 | -370.7 | 10.55 | |
| 10:40 | 6.30 | 350 | 0.5 | 15.5 | 1.67 | 0.39 | 8.12 | -370.3 | 10.71 | |
| 10:45 | 6.30 | 350 | 0.9 | 15.4 | 1.82 | 0.41 | 7.09 | -365.9 | 11.10 | |
| 10:50 | 6.30 | 350 | 1.4 | 15.4 | 3.74 | 0.41 | 6.77 | -367.9 | 6.15 | |
| 10:55 | 6.30 | 350 | 1.8 | 15.4 | 3.78 | 0.45 | 6.90 | -382.1 | 5.00 | |
| 11:00 | 6.30 | 350 | 2.3 | 15.4 | 3.34 | 0.44 | 6.92 | -386.0 | 2.81 | |
| 11:05 | 6.30 | 350 | 2.8 | 15.4 | 3.01 | 0.36 | 6.95 | -386.9 | 3.84 | |
| 11:10 | 6.30 | 350 | 3.2 | 15.4 | 2.87 | 0.34 | 6.98 | -386.7 | 2.60 | |
| 11:15 | 6.30 | 350 | 3.7 | 15.4 | 2.66 | 0.27 | 7.00 | -386.6 | 1.37 | |
| 11:20 | 6.30 | 350 | 4.2 | 15.4 | 2.55 | 0.24 | 7.00 | -385.7 | 2.44 | |
| 11:25 | 6.28 | 350 | 4.6 | 15.5 | 2.49 | 0.23 | 7.03 | -384.5 | 1.43 | |
| 11:30 | 6.25 | 350 | 5.1 | 15.7 | 2.43 | 0.21 | 7.04 | -382.9 | 1.36 | |
| 11:35 | 6.25 | 350 | 5.5 | 15.8 | 2.37 | 0.20 | 7.05 | -80.2 | 0.77 | |
| 11:40 | 6.25 | 350 | 6.0 | 15.8 | 2.34 | 0.20 | 7.04 | -379.2 | 0.97 | |
| 11:45 | 6.24 | 350 | 6.5 | 15.8 | 2.30 | 0.20 | 7.04 | -379.5 | 0.51 | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/13/2017 **Time:** 11:45

**Total Volume of Water Purged (gal):** 7

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

AECOM

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** PMW-17D

**Well Diameter:** 4"

**Samplers:** M. Kuczka

**Weather:** 50°F, Rain

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/11/2017 **Time:** 12:17 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 6.45

**Depth to Bottom:** 22.34

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 12:20 | 6.67 | 250 | 0.2 | 15.39 | 0.330 | 8.12 | 8.09 | -113.1 | turbidity malfuction | yellow tint |
| 12:25 | 6.75 | 250 | 0.5 | 15.86 | 0.225 | 1.73 | 8.22 | -109.0 | 15.2 | |
| 12:30 | 6.75 | 250 | 0.9 | 16.16 | 0.232 | 1.28 | 8.13 | -78.7 | 13.1 | |
| 12:35 | 6.75 | 250 | 1.2 | 16.04 | 0.235 | 1.05 | 8.10 | -72.9 | 12.6 | |
| 12:40 | 6.75 | 250 | 1.5 | 15.97 | 0.241 | 0.91 | 8.06 | -68.2 | 14.8 | |
| 12:45 | 6.75 | 250 | 1.8 | 15.95 | 0.247 | 0.84 | 8.01 | -63.6 | 12.6 | |
| 12:50 | 6.75 | 250 | 2.2 | 15.89 | 0.257 | 0.82 | 7.94 | -69.9 | 12.9 | |
| 12:55 | 6.63 | 150 | 2.4 | 15.71 | 0.267 | 0.81 | 7.94 | -72.1 | 11.3 | pump battery dying |
| 13:00 | 6.60 | 250 | 2.7 | 15.76 | 0.271 | 0.80 | 7.91 | -72.7 | 11.1 | |
| 13:05 | 6.71 | 250 | 3.0 | 15.97 | 0.281 | 0.71 | 7.84 | -60.6 | 12.8 | changed pump battery |
| 13:10 | 6.72 | 250 | 3.4 | 15.99 | 0.284 | 0.69 | 7.84 | -54.9 | 10.33 | |
| 13:15 | 6.72 | 250 | 3.7 | 15.91 | 0.292 | 0.65 | 7.84 | -71.0 | 9.23 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/11/2017

**Time:** 13:15

**Total Volume of Water Purged (gal):** 4

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** RMW-2D

**Well Diameter:** 2"

**Samplers:**
E. Au
M. Kuczka

**Weather:** 65°F, partly cloudy

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:** feet below top of PVC

Method: Low Flow | **Date:** 10/13/2017 | **Time:** 9:40 (hhmm)

**Initial Depth to Water:** NA | **Depth to Bottom:** NA

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:40 | - | 200 | 0.0 | 17.9 | 2.73 | 1.15 | 6.65 | -292.0 | 5.81 | |
| 9:45 | - | 200 | 0.3 | 17.0 | 2.46 | 0.35 | 6.51 | -372.3 | 3.88 | |
| 9:50 | - | 200 | 0.5 | 16.9 | 2.43 | 0.56 | 6.50 | -374.0 | 5.37 | |
| 9:55 | - | 200 | 0.8 | 16.8 | 2.47 | 0.42 | 6.59 | -375.6 | 3.25 | |
| 10:00 | - | 200 | 1.1 | 16.6 | 2.52 | 0.41 | 6.65 | -376.4 | 4.39 | |
| 10:05 | - | 200 | 1.3 | 16.5 | 2.53 | 0.36 | 6.71 | -376.2 | 3.84 | |
| 10:10 | - | 200 | 1.6 | 16.4 | 2.54 | 0.32 | 6.74 | -376.2 | 2.43 | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump | **Date:** 10/13/2017 | **Time:** 10:10 | **Total Volume of Water Purged (gal):** 2.5

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**
Obstuction down well at 6.80' btic. Unable to obtain water level or depth to bottom.

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** RMW-3D

**Well Diameter:** 2"

**Samplers:**
E. Au
S. Connelly

**Weather:** 65°F, mostly sunny

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/10/2017 **Time:** 9:40 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 5.90

**Depth to Bottom:** 26.26

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 9:40 | 5.90 | 250 | 0.0 | 16.5 | 1.78 | 1.66 | 7.18 | -368.0 | 2.09 | |
| 9:45 | 5.90 | 300 | 0.4 | 15.6 | 1.67 | 0.04 | 7.19 | -368.3 | 2.37 | |
| 9:50 | 5.90 | 300 | 0.8 | 15.6 | 1.64 | 0.83 | 7.14 | -379.6 | 1.08 | |
| 9:55 | 5.92 | 300 | 1.2 | 15.7 | 1.61 | 0.59 | 7.17 | -383.8 | 1.23 | |
| 10:00 | 5.92 | 300 | 1.6 | 15.7 | 1.60 | 0.61 | 7.18 | -386.2 | 1.72 | |
| 10:05 | 5.92 | 300 | 2.0 | 15.8 | 1.60 | 0.63 | 7.17 | -388.7 | 1.59 | |
| 10:10 | 5.92 | 300 | 2.4 | 15.8 | 1.59 | 0.66 | 7.17 | -389.2 | 0.82 | |
| 10:15 | 5.92 | 300 | 2.8 | 15.7 | 1.58 | 0.65 | 7.16 | -388.9 | 1.47 | |
| 10:20 | 5.90 | 300 | 3.2 | 15.70 | 1.58 | 0.61 | 7.16 | -389.8 | 1.26 | |
| 10:25 | 5.90 | 300 | 3.6 | 15.90 | 1.58 | 0.59 | 7.16 | -387.3 | 0.76 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/10/2017

**Time:** 10:25

**Total Volume of Water Purged (gal):** 4

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

AECOM

# GROUNDWATER SAMPLING LOG



## Low Flow Sampling Record

**Site Name:** IP-BP Ekonol

**Well ID:** RMW-4D

**Well Diameter:** 2"

**Samplers:** S. Connelly

**Weather:** 60-65°F, overcast, slight breeze

**Water Volume Calculation**

| | |
|---|---|
| 1 inch= 0.041 | 6 inch= 1.4 |
| 1.5 inch= 0.092 | 8 inch= 2.5 |
| 2 inch= 0.163 | 10 inch= 4 |
| 4 inch= 0.64 | |

gal = (Total Depth of Well - Depth to Water) × Casing volume per foot

**Acceptance Criteria:**

| | |
|---|---|
| Temp | ± 3% |
| pH | ± 0.1 unit |
| Sp. Cond. | ± 3% |
| ORP | ± 10mV |
| DO | ± 10% |
| Turbidity | <50 NTU |
| Drawdown | <0.3 ft |

**Purging Data:**

Method: Low Flow

**Date:** 10/13/2017 **Time:** 8:00 (hhmm)

**feet below top of PVC**

**Initial Depth to Water:** 6.75

**Depth to Bottom:** 28.74

| Time (hhmm) | DTW (ft) | Pump Rate (ml/min) | Volume (gal.) | Temp (C°) | Sp. Cond (ms/cm) | DO (mg/L) | pH | ORP (mV) | Turb (NTU) | Comments: |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:00 | 6.75 | 325 | 0.0 | 15.71 | 3.538 | -0.19 | 6.54 | -313.6 | 39.7 | |
| 8:05 | 7.45 | 225 | 0.3 | 15.88 | 3.611 | -0.43 | 6.60 | -317.3 | 40.7 | |
| 8:10 | 7.45 | 225 | 0.6 | 15.93 | 3.638 | 4.58 | 6.66 | -322.1 | 33.6 | |
| 8:15 | 7.50 | 225 | 0.9 | 15.93 | 3.669 | 4.78 | 6.69 | -323.4 | 17.1 | |
| 8:20 | 7.55 | 225 | 1.2 | 15.88 | 3.690 | 3.83 | 6.69 | -323.9 | 11.04 | |
| 8:25 | 7.60 | 225 | 1.5 | 15.88 | 3.714 | 3.16 | 6.68 | -323.0 | 6.60 | |
| 8:30 | 7.65 | 225 | 1.8 | 15.87 | 3.798 | 2.37 | 6.66 | -322.3 | 5.43 | |
| 8:35 | 7.65 | 225 | 2.1 | 15.86 | 3.841 | 1.77 | 6.66 | -321.9 | 3.80 | |
| 8:40 | 7.65 | 225 | 2.4 | 15.82 | 3.867 | 1.40 | 6.65 | -321.4 | 3.80 | |
| 8:45 | 7.65 | 225 | 2.7 | 15.78 | 3.887 | 1.11 | 6.65 | -320.7 | 3.50 | |
| 8:50 | 7.65 | 225 | 3.0 | 15.80 | 3.908 | 1.05 | 6.64 | -320.1 | 2.92 | |
| 8:55 | 7.65 | 225 | 3.3 | 15.84 | 3.951 | 0.97 | 6.64 | -319.6 | 3.00 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Sample Collection Method:** Peristaltic Pump

**Date:** 10/13/2017

**Time:** 9:00

**Total Volume of Water Purged (gal):** 3

**Hach Test Kits**

| | |
|---|---|
| Alkalinity (mg/L) | N/A |
| Carbon Dioxide (mg/L) | N/A |
| Ferrous Iron (mg/L) | N/A |
| Hydrogen Sulfide (mg/L) | N/A |
| DTW | |

**Comments:**

**Sample Set**

| Parameter | | Bottle | Pres. | Method |
|---|---|---|---|---|
| VOCs | ☑ | 3-40 mL glass vial | HCL | 8260C |
| Dissolved Fe & K | ☑ | 1-500 mL poly(field filtered) | HNO3 | 6010C |
| TOC | ☑ | 2-40mL glass vial | H2SO4 | 9060A |
| M.E.E | ☑ | 2-40 mL glass vial | HCL | RSK-175 mod |
| Sulfide | ☐ | 1- 500mL poly (field filtered) | NaOH/Zn Acetate | SM 4500 S2 |
| Sulfate | ☐ | 1500 mL poly (field filtered) | unpreserved | 300.0 |
| Microbial Population | ☐ | 1-L poly | unpreserved | CENSUS |

# Appendix C

# Data Usability Summary Report

# DATA USABILITY SUMMARY REPORT

**EKONOL POLYESTER RESINS SITE**
**TOWN OF WHEATFIELD, NIAGARA COUNTY, NY**
**SITE No. V00653-9**

**Analyses Performed by:**

**TEST AMERICA LABORATORIES, INC.**
**NORTH CANTON, OHIO**

**Prepared for:**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
**DIVISION OF ENVIRONMENTAL REMEDIATION**

**Prepared by:**

**AECOM**
**257 WEST GENESEE STREET, SUITE 400**
**BUFFALO, NY 14202-2657**

**NOVEMBER 2017**

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**TABLES**
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| Table 1 | Validated Groundwater Sample Analytical Results |
| Table 2 | Validated Field QC Sample Analytical Results |


**ATTACHMENTS**


| | |
|---|---|
| Attachment A | Validated Form 1's |
| Attachment B | Support Documentation |

## I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and the Development of Data Usability Summary Reports*, May 2010. Discussed in this DUSR are the analytical data for thirty eight (38) groundwater samples, two (2) groundwater field duplicates, two (2) Matrix Spike/Matrix Spike Duplicate (MS/MSD) pairs, and five (5) trip blanks collected on October 9-13, 2017.

The samples were collected at the Ekonol Polyester Resins site (Site ID Number V00653-9), located in the Town of Wheatfield, Niagara County, NY and sent to Test America Laboratories, Inc. (North Canton, Ohio). Test America is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory.

## II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The groundwater samples were analyzed for the following parameters (not all samples were analyzed for all parameters):

| Parameter | Method Number |
|---|---|
| Select Chlorinated Volatile Organic Compounds (CVOCs) | SW8260C |
| Dissolved Gases (ethane, ethene, and methane) | RSK SOP-175 Modified |
| Dissolved Iron and Potassium | 6010C |
| Total Organic Carbon (TOC) | 9060A |

A limited data validation was performed on the samples in accordance with the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B & 8260C*, SOP HW-24, Revision 4, October 2014; and
- *ICP-AES Data Validation*, SOP HW-2a, Rev. 15, December 2012

The limited data review included a review of: completeness of all required deliverables; holding times; QC results [blanks, instrument tunes, calibration standards, MS/MSD recoveries, duplicate precision, and laboratory control sample (LCS) recoveries] to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data during the limited data validation include 'J' (estimated value) and 'UJ' (estimated reporting limit). Definitions of USEPA data qualifiers are presented at the end of this text. The validated analytical results are presented on Table 1 and Table 2. Validated Form 1s have been presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

## III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

## IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), and were analyzed within the required holding times (HT) with the following exceptions.

One of the TOC vials for sample RMW-2D was received broken at the laboratory. The TOC analysis was able to be performed on the second vial.

The CVOC vials for sample OR-6SM were not properly preserved (pH >2) and were not analyzed within the HT for unpreserved samples (i.e., > 7 days). The detected CVOC results have been qualified 'J'. Using professional judgement the non-detect results were qualified 'UJ' in this sample. The results were compared to historical data and the values were similar, therefore the non-detect results were not rejected.

The dissolved gases [methane, ethane, and ethane (M/E/E)] vials for samples OR-4SM, OR-6SM, and PMW-6D were not properly preserved (pH >2) and were not analyzed within the HT for unpreserved samples (i.e., > 7 days). The detected M/E/E results have been qualified 'J' and the non-detect results were qualified 'UJ' in these samples.

## V. NON-CONFORMANCES

### Laboratory Method Blanks

1,1,1-Trichloroethane (1,1,1-TCA) was detected in the trip blank (10/13/17) at a concentration greater than the method detection limit (MDL) but less than the reporting limit (RL). The result for 1,1,1-TCA was qualified 'U' at the RL in associated sample MW-7D.

Potassium (K) was detected in the metals continuing calibration blanks (CCB) and/or laboratory method blanks at a concentration greater than the MDL but less than the RL. The results for K in the following samples were qualified 'U' at the RL: MW-15D, OR-10SM, OR-14SM, PMW-4S, PMW-11D, PMW-16D, PMW-17D, and RMW-3D. The 'B' qualifier applied by the laboratory was removed from the remaining samples because the detected results were greater than the RL.

## VI. SAMPLE RESULTS AND REPORTING

Field duplicates were collected at locations INJ-13D (DUPLICATE-101217) and MW-13D (DUPLICATE-100917) and exhibited good field and analytical precision.

All sample results were reported in accordance with method requirements and were adjusted for sample volume (where applicable). Results reported below the reporting limit, but greater than the MDL, are qualified 'J' by the laboratory. Those results being reported from a secondary dilution have been qualified 'D'.

## VII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J' (estimated value) or 'UJ' (estimated reporting limit) during the data review are considered conditionally usable. All other sample results are usable as reported. AECOM does not recommend the re-collection of any samples at this time.

**Prepared By: Ann Marie Kropovitch, Chemist** **Date:** 11/8/17

**Reviewed By: George E. Kisluk, Senior Chemist** **Date:** 11/8/17

## DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

**U** – The analyte was analyzed for, but was not detected above the reported sample reporting limit.

**J** – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

**UJ** – The analyte was not detected above the reported sample reporting limit. However, the reported reporting limit is approximate and may or may not represent the actual limit of reporting necessary to accurately and precisely measure the analyte in the sample.

**R** – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**D** – The sample results are reported from a secondary dilution.

# TABLE 1
# VALIDATEDGROUNDWATER SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | INJ- 7D | INJ-11D | INJ-13D | INJ-13D | MW- 2S |
|---|---|---|---|---|---|---|
| Sample ID | | INJ-7D | INJ-11D | DUPLICATE-101217 | INJ-13D | MW-2S |
| Matrix | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/09/17 | 10/09/17 | 10/12/17 | 10/12/17 | 10/12/17 |
| Parameter | Units | | | Field Duplicate (1-1) | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| 1,1-Dichloroethane | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| 1,1-Dichloroethene | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| 1,2-Dichloroethene (cis) | UG/L | 180,000 | 20,000 | 17,000 | 15,000 | 160,000 |
| 1,2-Dichloroethene (trans) | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| Benzene | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| Chloroethane | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| Ethylbenzene | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| Naphthalene | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| Tetrachloroethene | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| Toluene | UG/L | 2,500 U | 500 U | 630 U | 500 U | 5,000 U |
| Trichloroethene | UG/L | 120,000 | 1,400 | 2,300 | 2,100 | 5,000 U |
| Vinyl chloride | UG/L | 6,200 | 2,700 | 2,400 | 1,900 | 17,000 |
| Xylene (total) | UG/L | 5,000 U | 1,000 U | 1,300 U | 1,000 U | 10,000 U |
| **Dissolved Metals** | | | | | | |
| Iron, Dissolved | UG/L | 7,100 | 1,000 | 1,000 | 1,000 | 4,000 |
| Potassium, Dissolved | UG/L | 6,500 | 11,000 | 7,900 | 7,600 | 3,200 J |
| **Miscellaneous Parameters** | | | | | | |
| Total Organic Carbon (TOC) | MG/L | 54 | 29 | 67 | 65 | 3.1 |
| **Dissolved Gases** | | | | | | |
| Ethane | UG/L | 12 | 79 | 210 | 180 | 20 |
| Ethene | UG/L | 1,000 | 780 | 1,900 | 1,800 | 120 |
| Methane | UG/L | 980 | 10,000 D | 12,000 D | 14,000 D | 410 |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

# TABLE 1
# VALIDATEDGROUNDWATER SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | MW- 4S | MW- 7D | MW- 9S | MW-10S | MW-11D |
|---|---|---|---|---|---|---|
| Sample ID | | MW-4S | MW-7D | MW-9S | MW-10S | MW-11D |
| Matrix | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/11/17 | 10/13/17 | 10/13/17 | 10/10/17 | 10/09/17 |
| Parameter | Units | | | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 110 D |
| 1,1-Dichloroethane | UG/L | 100 U | 270 J | 1.0 U | 10 U | 40 |
| 1,1-Dichloroethene | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 1.2 J |
| 1,2-Dichloroethene (cis) | UG/L | 4,000 | 23,000 | 1.0 U | 240 | 25 |
| 1,2-Dichloroethene (trans) | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 0.94 J |
| Benzene | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 1.7 U |
| Chloroethane | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 1.7 U |
| Ethylbenzene | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 1.7 U |
| Naphthalene | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 1.7 U |
| Tetrachloroethene | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 1.7 U |
| Toluene | UG/L | 100 U | 1,000 U | 1.0 U | 10 U | 1.7 U |
| Trichloroethene | UG/L | 100 U | 1,000 U | 1.0 U | 4.4 J | 2.3 |
| Vinyl chloride | UG/L | 2,000 | 4,200 | 1.0 U | 48 | 77 |
| Xylene (total) | UG/L | 200 U | 2,000 U | 2.0 U | 20 U | 3.3 U |
| **Dissolved Metals** | | | | | | |
| Iron, Dissolved | UG/L | 260 | 100 U | 990 | NA | NA |
| Potassium, Dissolved | UG/L | 6,700 | 6,400 | 5,500 | NA | NA |
| **Miscellaneous Parameters** | | | | | | |
| Total Organic Carbon (TOC) | MG/L | 6.0 | 53 | 5.1 | NA | NA |
| **Dissolved Gases** | | | | | | |
| Ethane | UG/L | 17 | 26 | 1.0 U | 1.5 | 12 |
| Ethene | UG/L | 130 | 480 | 1.0 U | 9.9 | 20 |
| Methane | UG/L | 2,500 | 7,800 D | 14 | 77 | 440 |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

Advanced Selection: amk-temp
J:\Projects\60481767_BPIPO\MISC\Ekonol\600-CAD-GIS\950 Database\Program\EDMS.mde
Printed: 11/8/2017 10:39:08 AM
[LOGDATE] > #10/1/2017# AND [SACODE] <> 'TB' AND [SDG] <> 'FIELD'

# TABLE 1
# VALIDATEDGROUNDWATER SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | MW-11S | MW-12S | MW-13D | MW-13D | MW-15D |
|---|---|---|---|---|---|---|
| Sample ID | | MW-11S | MW-12S | DUPLICATE-100917 | MW-13D | MW-15D |
| Matrix | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/10/17 | 10/10/17 | 10/09/17 | 10/09/17 | 10/10/17 |
| Parameter | Units | | | Field Duplicate (1-1) | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 2.0 U | 40 U | 13 U | 13 U | 54 |
| 1,1-Dichloroethane | UG/L | 7.0 | 20 J | 14 | 14 | 22 |
| 1,1-Dichloroethene | UG/L | 2.0 U | 40 U | 13 U | 13 U | 10 U |
| 1,2-Dichloroethene (cis) | UG/L | 88 | 780 | 260 | 240 | 190 |
| 1,2-Dichloroethene (trans) | UG/L | 2.7 | 37 J | 13 U | 13 U | 3.1 J |
| Benzene | UG/L | 2.0 U | 40 U | 13 U | 13 U | 10 U |
| Chloroethane | UG/L | 2.0 U | 40 U | 13 U | 13 U | 10 U |
| Ethylbenzene | UG/L | 2.0 U | 40 U | 13 U | 13 U | 10 U |
| Naphthalene | UG/L | 2.0 U | 40 U | 13 U | 13 U | 10 U |
| Tetrachloroethene | UG/L | 2.0 U | 40 U | 13 U | 13 U | 10 U |
| Toluene | UG/L | 2.0 U | 40 U | 13 U | 13 U | 10 U |
| Trichloroethene | UG/L | 1.1 J | 130 | 13 U | 13 U | 10 U |
| Vinyl chloride | UG/L | 82 | 660 | 650 | 650 | 350 |
| Xylene (total) | UG/L | 4.0 U | 80 U | 25 U | 25 U | 20 U |
| **Dissolved Metals** | | | | | | |
| Iron, Dissolved | UG/L | NA | NA | 100 U | 100 U | 250 |
| Potassium, Dissolved | UG/L | NA | NA | 6,300 | 6,600 | 5,000 U |
| **Miscellaneous Parameters** | | | | | | |
| Total Organic Carbon (TOC) | MG/L | NA | NA | 3.1 | 3.1 | 2.4 |
| **Dissolved Gases** | | | | | | |
| Ethane | UG/L | 2.6 | 43 | 8.8 | 9.8 | 0.20 J |
| Ethene | UG/L | 85 | 820 | 170 | 160 | 4.0 |
| Methane | UG/L | 550 | 4,100 D | 3,100 | 2,500 | 45 |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

# TABLE 1
# VALIDATEDGROUNDWATER SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | MW-17D | MW-19D | MW-20D | MW-21D | OR- 4SM |
|---|---|---|---|---|---|---|
| Sample ID | | MW-17D | MW-19D | MW-20D | MW-21D | OR-4SM |
| Matrix | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/09/17 | 10/10/17 | 10/09/17 | 10/09/17 | 10/11/17 |
| Parameter | Units | | | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 78 D | 1.0 U | 550 | 38 | 1.0 U |
| 1,1-Dichloroethane | UG/L | 28 | 1.0 U | 75 | 23 | 0.53 J |
| 1,1-Dichloroethene | UG/L | 1.3 | 1.0 U | 5.6 J | 17 U | 1.0 U |
| 1,2-Dichloroethene (cis) | UG/L | 24 | 6.8 | 110 | 710 | 1.0 U |
| 1,2-Dichloroethene (trans) | UG/L | 0.81 J | 0.45 J | 7.2 J | 17 U | 1.9 |
| Benzene | UG/L | 1.3 U | 1.0 U | 10 U | 17 U | 3.1 |
| Chloroethane | UG/L | 1.6 | 1.0 U | 10 U | 17 U | 1.0 U |
| Ethylbenzene | UG/L | 1.3 U | 1.0 U | 10 U | 17 U | 1.8 |
| Naphthalene | UG/L | 1.3 U | 1.0 U | 10 U | 17 U | 0.42 J |
| Tetrachloroethene | UG/L | 1.3 U | 1.0 U | 10 U | 17 U | 1.0 U |
| Toluene | UG/L | 1.3 U | 1.0 U | 10 U | 17 U | 1.6 |
| Trichloroethene | UG/L | 1.8 | 1.0 U | 5.9 J | 17 U | 1.0 U |
| Vinyl chloride | UG/L | 70 | 1.0 U | 430 | 610 | 1.0 U |
| Xylene (total) | UG/L | 2.5 U | 2.0 U | 20 U | 33 U | 7.9 |
| **Dissolved Metals** | | | | | | |
| Iron, Dissolved | UG/L | NA | 2,100 | NA | NA | 15,000 |
| Potassium, Dissolved | UG/L | NA | 5,200 | NA | NA | 21,000 |
| **Miscellaneous Parameters** | | | | | | |
| Total Organic Carbon (TOC) | MG/L | NA | 5.8 | NA | NA | 41 |
| **Dissolved Gases** | | | | | | |
| Ethane | UG/L | 2.7 | 0.25 J | 8.8 | 1.7 | 2.1 J |
| Ethene | UG/L | 23 | 1.0 U | 250 | 31 | 5.0 UJ |
| Methane | UG/L | 460 | 22 | 1,600 | 200 | 6,600 J |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

# TABLE 1
# VALIDATEDGROUNDWATER SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | OR- 6SM | OR-10SM | OR-14SM | OR-18SM | PMW- 1D |
|---|---|---|---|---|---|---|
| Sample ID | | OR-6SM | OR-10SM | OR-14SM | OR-18SM | PMW-1D |
| Matrix | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/10/17 | 10/10/17 | 10/10/17 | 10/11/17 | 10/12/17 |
| Parameter | Units | | | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 1.0 U |
| 1,1-Dichloroethane | UG/L | 4.0 UJ | 2.7 J | 1.0 U | 10 U | 0.74 J |
| 1,1-Dichloroethene | UG/L | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 1.0 U |
| 1,2-Dichloroethene (cis) | UG/L | 93 J | 91 | 0.79 J | 230 | 1.2 |
| 1,2-Dichloroethene (trans) | UG/L | 9.5 J | 3.5 J | 1.0 U | 10 U | 0.31 J |
| Benzene | UG/L | 4.5 J | 2.1 J | 1.0 U | 10 U | 1.0 U |
| Chloroethane | UG/L | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 2.9 |
| Ethylbenzene | UG/L | 1.4 J | 4.0 U | 1.0 U | 10 U | 1.0 U |
| Naphthalene | UG/L | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 0.48 J |
| Tetrachloroethene | UG/L | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 1.0 U |
| Toluene | UG/L | 5.0 J | 3.1 J | 0.34 J | 10 U | 0.27 J |
| Trichloroethene | UG/L | 4.0 UJ | 4.0 U | 1.0 U | 10 U | 1.0 U |
| Vinyl chloride | UG/L | 24 J | 120 | 1.8 | 90 | 28 |
| Xylene (total) | UG/L | 10 J | 1.7 J | 0.25 J | 20 U | 0.56 J |
| **Dissolved Metals** | | | | | | |
| Iron, Dissolved | UG/L | 210 | 440 | 1,500 | 100 U | 64,000 |
| Potassium, Dissolved | UG/L | 19,000 | 5,000 U | 5,000 U | 7,700 | 9,400 |
| **Miscellaneous Parameters** | | | | | | |
| Total Organic Carbon (TOC) | MG/L | 36 | 15 | 5.6 | 5.6 | 460 |
| **Dissolved Gases** | | | | | | |
| Ethane | UG/L | 59 J | 34 | 4.5 | 6.6 | 320 |
| Ethene | UG/L | 96 J | 120 | 11 | 36 | 210 |
| Methane | UG/L | 4,800 DJ | 6,900 D | 4,000 | 7,500 | 15,000 D |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

# TABLE 1
# VALIDATEDGROUNDWATER SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | PMW- 1S | PMW- 2D | PMW- 3S | PMW- 4S | PMW- 6D |
|---|---|---|---|---|---|---|
| Sample ID | | PMW-1S | PMW-2D | PMW-3S | PMW-4S | PMW-6D |
| Matrix | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/11/17 | 10/12/17 | 10/12/17 | 10/10/17 | 10/11/17 |
| Parameter | Units | | | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| 1,1-Dichloroethane | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| 1,1-Dichloroethene | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| 1,2-Dichloroethene (cis) | UG/L | 110 | 65,000 D | 4,300 | 860 | 9,300 |
| 1,2-Dichloroethene (trans) | UG/L | 8.2 | 1,000 U | 120 J | 14 J | 400 U |
| Benzene | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| Chloroethane | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| Ethylbenzene | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| Naphthalene | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| Tetrachloroethene | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| Toluene | UG/L | 5.0 U | 1,000 U | 200 U | 25 U | 400 U |
| Trichloroethene | UG/L | 1.9 J | 1,200 | 200 U | 25 U | 130 J |
| Vinyl chloride | UG/L | 140 | 23,000 | 1,500 | 150 | 3,600 |
| Xylene (total) | UG/L | 10 U | 2,000 U | 400 U | 50 U | 800 U |
| **Dissolved Metals** | | | | | | |
| Iron, Dissolved | UG/L | 1,000 | 1,500 | 520 | 1,300 | 100 U |
| Potassium, Dissolved | UG/L | 12,000 | 11,000 | 7,600 | 5,000 U | 9,100 |
| **Miscellaneous Parameters** | | | | | | |
| Total Organic Carbon (TOC) | MG/L | 9.8 | 400 | 6.3 | 7.4 | 260 |
| **Dissolved Gases** | | | | | | |
| Ethane | UG/L | 28 | 120 | 56 | 10 | 25 J |
| Ethene | UG/L | 280 | 7,200 | 460 | 25 | 1,200 J |
| Methane | UG/L | 7,400 | 9,100 D | 9,100 D | 1,000 | 12,000 J |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

Advanced Selection: amk-temp
J:\Projects\60481757_BP\PO\MISC\Ekonol\800-CAD-GIS\950 Database\Program\EDMS.mde
Printed: 11/8/2017 10:39:09 AM
[LOGDATE] > #10/1/2017# AND [SACODE] <> 'TB' AND [SDG] <> 'FIELD'

# TABLE 1
# VALIDATEDGROUNDWATER SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | PMW- 6S | PMW- 8D | PMW- 9D | PMW-10D | PMW-11D |
|---|---|---|---|---|---|---|
| Sample ID | | PMW-6S | PMW-8D | PMW-9D | PMW-10D | PMW-11D |
| Matrix | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/11/17 | 10/12/17 | 10/12/17 | 10/12/17 | 10/11/17 |
| Parameter | Units | | | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 100 U | 1,000 U | 2,000 U | 500 U | 13,000 D |
| 1,1-Dichloroethane | UG/L | 100 U | 1,000 U | 2,000 U | 220 J | 310 |
| 1,1-Dichloroethene | UG/L | 100 U | 1,000 U | 2,000 U | 500 U | 270 |
| 1,2-Dichloroethene (cis) | UG/L | 1,800 | 41,000 | 62,000 | 18,000 | 4,500 |
| 1,2-Dichloroethene (trans) | UG/L | 100 | 1,000 U | 2,000 U | 500 U | 100 U |
| Benzene | UG/L | 100 U | 1,000 U | 2,000 U | 500 U | 100 U |
| Chloroethane | UG/L | 100 U | 1,000 U | 2,000 U | 500 U | 100 U |
| Ethylbenzene | UG/L | 100 U | 1,000 U | 2,000 U | 500 U | 100 U |
| Naphthalene | UG/L | 100 U | 1,000 U | 2,000 U | 500 U | 100 U |
| Tetrachloroethene | UG/L | 100 U | 1,000 U | 2,000 U | 500 U | 30 J |
| Toluene | UG/L | 100 U | 1,000 U | 2,000 U | 500 U | 100 U |
| Trichloroethene | UG/L | 100 U | 12,000 | 12,000 | 1,400 | 490 |
| Vinyl chloride | UG/L | 3,700 | 4,500 | 8,900 | 6,200 | 430 |
| Xylene (total) | UG/L | 200 U | 2,000 U | 4,000 U | 1,000 U | 200 U |
| **Dissolved Metals** | | | | | | |
| Iron, Dissolved | UG/L | 4,000 | 100 U | 33,000 | 21,000 | 130 |
| Potassium, Dissolved | UG/L | 11,000 | 6,700 | 11,000 | 3,700 J | 5,000 U |
| **Miscellaneous Parameters** | | | | | | |
| Total Organic Carbon (TOC) | MG/L | 21 | 79 | 66 | 320 | 2.8 |
| **Dissolved Gases** | | | | | | |
| Ethane | UG/L | 15 | 33 | 220 | 130 | 2.6 |
| Ethene | UG/L | 180 | 780 | 3,800 | 8,400 D | 21 |
| Methane | UG/L | 5,300 | 6,800 D | 11,000 D | 10,000 D | 230 |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

Advanced Selection: amk-temp
J:\Projects\60481767_BP\PO\MISC\Ekonol\900-CAD-GIS\950 Database\Program\EDMS.mde
Printed: 11/8/2017 10:39:09 AM
[LOGDATE] > #10/1/2017# AND [SACODE] <> 'TB' AND [SDG] <> 'FIELD'

# TABLE 1
# VALIDATEDGROUNDWATER SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | PMW-16D | PMW-17D | RMW- 2D | RMW- 3D | RMW- 4D |
|---|---|---|---|---|---|---|
| Sample ID | | PMW-16D | PMW-17D | RMW-2D | RMW-3D | RMW-4D |
| Matrix | | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/13/17 | 10/11/17 | 10/13/17 | 10/10/17 | 10/13/17 |
| Parameter | Units | | | | | |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 5,300 | 14 | 5,000 U | 4,100 | 100 U |
| 1,1-Dichloroethane | UG/L | 610 J | 3.0 | 5,000 U | 100 J | 100 U |
| 1,1-Dichloroethene | UG/L | 1,000 U | 1.0 U | 5,000 U | 200 U | 100 U |
| 1,2-Dichloroethene (cis) | UG/L | 37,000 | 7.4 | 95,000 | 1,200 | 4,500 |
| 1,2-Dichloroethene (trans) | UG/L | 1,000 U | 1.0 U | 5,000 U | 200 U | 55 J |
| Benzene | UG/L | 1,000 U | 1.0 U | 5,000 U | 200 U | 100 U |
| Chloroethane | UG/L | 1,000 U | 1.0 U | 5,000 U | 200 U | 100 U |
| Ethylbenzene | UG/L | 1,000 U | 1.0 U | 5,000 U | 200 U | 100 U |
| Naphthalene | UG/L | 1,000 U | 1.0 U | 5,000 U | 200 U | 100 U |
| Tetrachloroethene | UG/L | 1,000 U | 1.0 U | 5,000 U | 200 U | 100 U |
| Toluene | UG/L | 1,000 U | 1.0 U | 5,000 U | 200 U | 100 U |
| Trichloroethene | UG/L | 950 J | 0.81 J | 120,000 | 200 U | 93 J |
| Vinyl chloride | UG/L | 7,600 | 15 | 5,000 U | 200 | 5,800 |
| Xylene (total) | UG/L | 2,000 U | 2.0 U | 10,000 U | 400 U | 200 U |
| **Dissolved Metals** | | | | | | |
| Iron, Dissolved | UG/L | 100 U | 1,100 | 100 U | 170 | 100 U |
| Potassium, Dissolved | UG/L | 5,000 U | 5,000 U | 4,800 J | 5,000 U | 5,300 |
| **Miscellaneous Parameters** | | | | | | |
| Total Organic Carbon (TOC) | MG/L | 41 | 9.7 | 190 | 3.3 | 77 |
| **Dissolved Gases** | | | | | | |
| Ethane | UG/L | 34 | 0.62 J | 60 | 0.84 J | 43 |
| Ethene | UG/L | 840 | 7.0 | 180 | 3.0 | 2,000 |
| Methane | UG/L | 2,800 | 360 | 430 | 40 | 8,800 D |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

# TABLE 2
# VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
# EKONOL POLYESTER RESINS SITE

| Location ID | | FIELDQC | FIELDQC | FIELDQC | FIELDQC | FIELDQC |
|---|---|---|---|---|---|---|
| Sample ID | | TB-100917 | TB-101017 | TB-101117 | TB-101217 | TB-101317 |
| Matrix | | Water Quality | Water Quality | Water Quality | Water Quality | Water Quality |
| Depth Interval (ft) | | - | - | - | - | - |
| Date Sampled | | 10/09/17 | 10/10/17 | 10/11/17 | 10/12/17 | 10/13/17 |
| Parameter | Units | Trip Blank (1-1) | Trip Blank (1-1) | Trip Blank (1-1) | Trip Blank (1-1) | Trip Blank (1-1) |
| **Volatile Organic Compounds** | | | | | | |
| 1,1,1-Trichloroethane | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.46 J |
| 1,1-Dichloroethane | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloroethene (cis) | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloroethene (trans) | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Benzene | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroethane | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethylbenzene | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Naphthalene | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Toluene | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl chloride | UG/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Xylene (total) | UG/L | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |

Flags assigned during chemistry validation are shown.

Made By: AMK 11/8/17
Checked By: GEK 11/8/17

**Detection Limits shown are PQL**

Advanced Selection: AMK-TEMP2
J:\Projects\60481767_BPIPO\MISC\Ekonol\900-CAD-GIS\950 Database\Program\EDMS.mde
Printed: 11/8/2017 10:37:35 AM
[LOGDATE] > #10/1/2017# AND [SACODE] = 'TB' AND [SDG] <> 'FIELD'

# ATTACHMENT A

# VALIDATED FORM 1s

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: INJ-7D | Lab Sample ID: 240-86300-7

Matrix: Water | Lab File ID: UXM6976.D

Analysis Method: 8260C | Date Collected: 10/09/2017 15:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 17:55

Soil Aliquot Vol: | Dilution Factor: 2500

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 2500 | 700 |
| 75-00-3 | Chloroethane | ND | | 2500 | 1000 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 2500 | 630 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 2500 | 680 |
| 100-41-4 | Ethylbenzene | ND | | 2500 | 650 |
| 91-20-3 | Naphthalene | ND | | 2500 | 630 |
| 127-18-4 | Tetrachloroethene | ND | | 2500 | 750 |
| 108-88-3 | Toluene | ND | | 2500 | 580 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 2500 | 730 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 2500 | 580 |
| 79-01-6 | Trichloroethene | 120000 | | 2500 | 830 |
| 75-01-4 | Vinyl chloride | 6200 | | 2500 | 1100 |
| 1330-20-7 | Xylenes, Total | ND | | 5000 | 600 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 110 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: INJ-7D | Lab Sample ID: 240-86300-7

Matrix: Water | Lab File ID: UXM7014.D

Analysis Method: 8260C | Date Collected: 10/09/2017 15:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/21/2017 10:24

Soil Aliquot Vol: | Dilution Factor: 5000

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300057 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | 180000 | | 5000 | 1500 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 111 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 103 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 94 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: INJ-11D | Lab Sample ID: 240-86300-6

Matrix: Water | Lab File ID: UXM6975.D

Analysis Method: 8260C | Date Collected: 10/09/2017 15:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 17:32

Soil Aliquot Vol: | Dilution Factor: 500

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 500 | 140 |
| 75-00-3 | Chloroethane | ND | | 500 | 210 |
| 156-59-2 | cis-1,2-Dichloroethene | 20000 | | 500 | 150 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 500 | 130 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 500 | 140 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 130 |
| 91-20-3 | Naphthalene | ND | | 500 | 130 |
| 127-18-4 | Tetrachloroethene | ND | | 500 | 150 |
| 108-88-3 | Toluene | ND | | 500 | 120 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 500 | 150 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 500 | 120 |
| 79-01-6 | Trichloroethene | 1400 | | 500 | 170 |
| 75-01-4 | Vinyl chloride | 2700 | | 500 | 230 |
| 1330-20-7 | Xylenes, Total | ND | | 1000 | 120 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 99 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 117 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 113 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: INJ-13D | Lab Sample ID: 240-86441-4

Matrix: Water | Lab File ID: UXM7097.D

Analysis Method: 8260C | Date Collected: 10/12/2017 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 11:58

Soil Aliquot Vol: | Dilution Factor: 500

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300312 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 500 | 140 |
| 75-00-3 | Chloroethane | ND | | 500 | 210 |
| 156-59-2 | cis-1,2-Dichloroethene | 15000 | | 500 | 150 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 500 | 130 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 500 | 140 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 130 |
| 91-20-3 | Naphthalene | ND | | 500 | 130 |
| 127-18-4 | Tetrachloroethene | ND | | 500 | 150 |
| 108-88-3 | Toluene | ND | | 500 | 120 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 500 | 150 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 500 | 120 |
| 79-01-6 | Trichloroethene | 2100 | | 500 | 170 |
| 75-01-4 | Vinyl chloride | 1900 | | 500 | 230 |
| 1330-20-7 | Xylenes, Total | ND | | 1000 | 120 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 93 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: DUPLICATE-101217 | Lab Sample ID: 240-86441-2

Matrix: Water | Lab File ID: UXM7052.D

Analysis Method: 8260C | Date Collected: 10/12/2017 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 15:38

Soil Aliquot Vol: | Dilution Factor: 625

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 630 | 180 |
| 75-00-3 | Chloroethane | ND | | 630 | 260 |
| 156-59-2 | cis-1,2-Dichloroethene | 17000 | | 630 | 190 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 630 | 160 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 630 | 170 |
| 100-41-4 | Ethylbenzene | ND | | 630 | 160 |
| 91-20-3 | Naphthalene | ND | | 630 | 160 |
| 127-18-4 | Tetrachloroethene | ND | | 630 | 190 |
| 108-88-3 | Toluene | ND | | 630 | 140 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 630 | 180 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 630 | 140 |
| 79-01-6 | Trichloroethene | 2300 | | 630 | 210 |
| 75-01-4 | Vinyl chloride | 2400 | | 630 | 280 |
| 1330-20-7 | Xylenes, Total | ND | | 1300 | 150 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 104 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 105 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86441-1

SDG No.:

Client Sample ID: MW-2S  Lab Sample ID: 240-86441-9

Matrix: Water  Lab File ID: UXM7059.D

Analysis Method: 8260C  Date Collected: 10/12/2017 14:45

Sample wt/vol: 5(mL)  Date Analyzed: 10/23/2017 18:17

Soil Aliquot Vol:  Dilution Factor: 5000

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300130  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 5000 | 1400 |
| 75-00-3 | Chloroethane | ND | | 5000 | 2100 |
| 156-59-2 | cis-1,2-Dichloroethene | 160000 | | 5000 | 1500 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 5000 | 1300 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 5000 | 1400 |
| 100-41-4 | Ethylbenzene | ND | | 5000 | 1300 |
| 91-20-3 | Naphthalene | ND | | 5000 | 1300 |
| 127-18-4 | Tetrachloroethene | ND | | 5000 | 1500 |
| 108-88-3 | Toluene | ND | | 5000 | 1200 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 5000 | 1500 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 5000 | 1200 |
| 79-01-6 | Trichloroethene | ND | | 5000 | 1700 |
| 75-01-4 | Vinyl chloride | 17000 | | 5000 | 2300 |
| 1330-20-7 | Xylenes, Total | ND | | 10000 | 1200 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 88 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86376-1

SDG No.:

Client Sample ID: MW-4S  Lab Sample ID: 240-86376-6

Matrix: Water  Lab File ID: UXM7043.D

Analysis Method: 8260C  Date Collected: 10/11/2017 10:20

Sample wt/vol: 5(mL)  Date Analyzed: 10/23/2017 12:11

Soil Aliquot Vol:  Dilution Factor: 100

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300130  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 100 | 28 |
| 75-00-3 | Chloroethane | ND | | 100 | 41 |
| 156-59-2 | cis-1,2-Dichloroethene | 4000 | | 100 | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 100 | 25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 100 | 27 |
| 100-41-4 | Ethylbenzene | ND | | 100 | 26 |
| 91-20-3 | Naphthalene | ND | | 100 | 25 |
| 127-18-4 | Tetrachloroethene | ND | | 100 | 30 |
| 108-88-3 | Toluene | ND | | 100 | 23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 100 | 29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 100 | 23 |
| 79-01-6 | Trichloroethene | ND | | 100 | 33 |
| 75-01-4 | Vinyl chloride | 2000 | | 100 | 45 |
| 1330-20-7 | Xylenes, Total | ND | | 200 | 24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: MW-7D | Lab Sample ID: 240-86525-4

Matrix: Water | Lab File ID: UXM7048.D

Analysis Method: 8260C | Date Collected: 10/13/2017 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 14:06

Soil Aliquot Vol: | Dilution Factor: 1000

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1000 | 280 |
| 75-00-3 | Chloroethane | ND | | 1000 | 410 |
| 156-59-2 | cis-1,2-Dichloroethene | 23000 | | 1000 | 300 |
| 75-34-3 | 1,1-Dichloroethane | 270 | J | 1000 | 250 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1000 | 270 |
| 100-41-4 | Ethylbenzene | ND | | 1000 | 260 |
| 91-20-3 | Naphthalene | ND | | 1000 | 250 |
| 127-18-4 | Tetrachloroethene | ND | | 1000 | 300 |
| 108-88-3 | Toluene | ND | | 1000 | 230 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1000 | 290 |
| 71-55-6 | 1,1,1-Trichloroethane | ~~360~~ ND | ~~J~~ | 1000 | ~~230~~ 1000 |
| 79-01-6 | Trichloroethene | ND | | 1000 | 330 |
| 75-01-4 | Vinyl chloride | 4200 | | 1000 | 450 |
| 1330-20-7 | Xylenes, Total | ND | | 2000 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 94 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

11/21/17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: MW-9S | Lab Sample ID: 240-86525-3

Matrix: Water | Lab File ID: UXM7047.D

Analysis Method: 8260C | Date Collected: 10/13/2017 09:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 13:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | ND | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | ND | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | ND | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 101 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-10S | Lab Sample ID: 240-86388-11

Matrix: Water | Lab File ID: U1260644.D

Analysis Method: 8260C | Date Collected: 10/10/2017 16:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/21/2017 01:27

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300032 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 10 | 2.8 |
| 75-00-3 | Chloroethane | ND | | 10 | 4.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 240 | | 10 | 3.0 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 10 | 2.5 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 10 | 2.7 |
| 100-41-4 | Ethylbenzene | ND | | 10 | 2.6 |
| 91-20-3 | Naphthalene | ND | | 10 | 2.5 |
| 127-18-4 | Tetrachloroethene | ND | | 10 | 3.0 |
| 108-88-3 | Toluene | ND | | 10 | 2.3 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 10 | 2.9 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 10 | 2.3 |
| 79-01-6 | Trichloroethene | 4.4 | J | 10 | 3.3 |
| 75-01-4 | Vinyl chloride | 48 | | 10 | 4.5 |
| 1330-20-7 | Xylenes, Total | ND | | 20 | 2.4 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 92 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 104 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-11D | Lab Sample ID: 240-86300-2

Matrix: Water | Lab File ID: UXM6971.D

Analysis Method: 8260C | Date Collected: 10/09/2017 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 15:59

Soil Aliquot Vol: | Dilution Factor: 1.67

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.7 | 0.47 |
| 75-00-3 | Chloroethane | ND | | 1.7 | 0.68 |
| 156-59-2 | cis-1,2-Dichloroethene | 25 | | 1.7 | 0.50 |
| 75-34-3 | 1,1-Dichloroethane | 40 | | 1.7 | 0.42 |
| 75-35-4 | 1,1-Dichloroethene | 1.2 | J | 1.7 | 0.45 |
| 100-41-4 | Ethylbenzene | ND | | 1.7 | 0.43 |
| 91-20-3 | Naphthalene | ND | | 1.7 | 0.42 |
| 127-18-4 | Tetrachloroethene | ND | | 1.7 | 0.50 |
| 108-88-3 | Toluene | ND | | 1.7 | 0.38 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.94 | J | 1.7 | 0.48 |
| 79-01-6 | Trichloroethene | 2.3 | | 1.7 | 0.55 |
| 75-01-4 | Vinyl chloride | 77 | | 1.7 | 0.75 |
| 1330-20-7 | Xylenes, Total | ND | | 3.3 | 0.40 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 104 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 123 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 110 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-11D | Lab Sample ID: 240-86300-2

Matrix: Water | Lab File ID: UXM7013.D

Analysis Method: 8260C | Date Collected: 10/09/2017 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/21/2017 10:01

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300057 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 110 | D | 4.0 | 0.92 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 108 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-11S | Lab Sample ID: 240-86388-6

Matrix: Water | Lab File ID: U1260639.D

Analysis Method: 8260C | Date Collected: 10/10/2017 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 23:33

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300032 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 2.0 | 0.56 |
| 75-00-3 | Chloroethane | ND | | 2.0 | 0.82 |
| 156-59-2 | cis-1,2-Dichloroethene | 88 | | 2.0 | 0.60 |
| 75-34-3 | 1,1-Dichloroethane | 7.0 | | 2.0 | 0.50 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 2.0 | 0.54 |
| 100-41-4 | Ethylbenzene | ND | | 2.0 | 0.52 |
| 91-20-3 | Naphthalene | ND | | 2.0 | 0.50 |
| 127-18-4 | Tetrachloroethene | ND | | 2.0 | 0.60 |
| 108-88-3 | Toluene | ND | | 2.0 | 0.46 |
| 156-60-5 | trans-1,2-Dichloroethene | 2.7 | | 2.0 | 0.58 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 2.0 | 0.46 |
| 79-01-6 | Trichloroethene | 1.1 | J | 2.0 | 0.66 |
| 75-01-4 | Vinyl chloride | 82 | | 2.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | ND | | 4.0 | 0.48 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 92 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 103 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-12S | Lab Sample ID: 240-86388-4

Matrix: Water | Lab File ID: U1260637.D

Analysis Method: 8260C | Date Collected: 10/10/2017 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 22:48

Soil Aliquot Vol: | Dilution Factor: 40

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300032 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 40 | 11 |
| 75-00-3 | Chloroethane | ND | | 40 | 16 |
| 156-59-2 | cis-1,2-Dichloroethene | 780 | | 40 | 12 |
| 75-34-3 | 1,1-Dichloroethane | 20 | J | 40 | 10 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 40 | 11 |
| 100-41-4 | Ethylbenzene | ND | | 40 | 10 |
| 91-20-3 | Naphthalene | ND | | 40 | 10 |
| 127-18-4 | Tetrachloroethene | ND | | 40 | 12 |
| 108-88-3 | Toluene | ND | | 40 | 9.2 |
| 156-60-5 | trans-1,2-Dichloroethene | 37 | J | 40 | 12 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 40 | 9.2 |
| 79-01-6 | Trichloroethene | 130 | | 40 | 13 |
| 75-01-4 | Vinyl chloride | 660 | | 40 | 18 |
| 1330-20-7 | Xylenes, Total | ND | | 80 | 9.6 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 92 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-13D | Lab Sample ID: 240-86300-3

Matrix: Water | Lab File ID: UXM6972.D

Analysis Method: 8260C | Date Collected: 10/09/2017 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 16:22

Soil Aliquot Vol: | Dilution Factor: 12.5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 13 | 3.5 |
| 75-00-3 | Chloroethane | ND | | 13 | 5.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 240 | | 13 | 3.8 |
| 75-34-3 | 1,1-Dichloroethane | 14 | | 13 | 3.1 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 13 | 3.4 |
| 100-41-4 | Ethylbenzene | ND | | 13 | 3.3 |
| 91-20-3 | Naphthalene | ND | | 13 | 3.1 |
| 127-18-4 | Tetrachloroethene | ND | | 13 | 3.8 |
| 108-88-3 | Toluene | ND | | 13 | 2.9 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 13 | 3.6 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 13 | 2.9 |
| 79-01-6 | Trichloroethene | ND | | 13 | 4.1 |
| 75-01-4 | Vinyl chloride | 650 | | 13 | 5.6 |
| 1330-20-7 | Xylenes, Total | ND | | 25 | 3.0 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 101 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 120 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 73-120 |

MW-13D

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1
SDG No.:
Client Sample ID: DUPLICATE-100917 | Lab Sample ID: 240-86300-8
Matrix: Water | Lab File ID: UXM6977.D
Analysis Method: 8260C | Date Collected: 10/09/2017 08:00
Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 18:18
Soil Aliquot Vol: | Dilution Factor: 12.5
Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 13 | 3.5 |
| 75-00-3 | Chloroethane | ND | | 13 | 5.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 260 | | 13 | 3.8 |
| 75-34-3 | 1,1-Dichloroethane | 14 | | 13 | 3.1 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 13 | 3.4 |
| 100-41-4 | Ethylbenzene | ND | | 13 | 3.3 |
| 91-20-3 | Naphthalene | ND | | 13 | 3.1 |
| 127-18-4 | Tetrachloroethene | ND | | 13 | 3.8 |
| 108-88-3 | Toluene | ND | | 13 | 2.9 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 13 | 3.6 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 13 | 2.9 |
| 79-01-6 | Trichloroethene | ND | | 13 | 4.1 |
| 75-01-4 | Vinyl chloride | 650 | | 13 | 5.6 |
| 1330-20-7 | Xylenes, Total | ND | | 25 | 3.0 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 103 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 118 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 109 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-15D | Lab Sample ID: 240-86388-3

Matrix: Water | Lab File ID: U1260636.D

Analysis Method: 8260C | Date Collected: 10/10/2017 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 22:25

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300032 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 10 | 2.8 |
| 75-00-3 | Chloroethane | ND | | 10 | 4.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 190 | | 10 | 3.0 |
| 75-34-3 | 1,1-Dichloroethane | 22 | | 10 | 2.5 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 10 | 2.7 |
| 100-41-4 | Ethylbenzene | ND | | 10 | 2.6 |
| 91-20-3 | Naphthalene | ND | | 10 | 2.5 |
| 127-18-4 | Tetrachloroethene | ND | | 10 | 3.0 |
| 108-88-3 | Toluene | ND | | 10 | 2.3 |
| 156-60-5 | trans-1,2-Dichloroethene | 3.1 | J | 10 | 2.9 |
| 71-55-6 | 1,1,1-Trichloroethane | 54 | | 10 | 2.3 |
| 79-01-6 | Trichloroethene | ND | | 10 | 3.3 |
| 75-01-4 | Vinyl chloride | 350 | | 10 | 4.5 |
| 1330-20-7 | Xylenes, Total | ND | | 20 | 2.4 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 92 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 105 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-17D | Lab Sample ID: 240-86300-1

Matrix: Water | Lab File ID: UXM6970.D

Analysis Method: 8260C | Date Collected: 10/09/2017 10:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 15:35

Soil Aliquot Vol: | Dilution Factor: 1.25

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.3 | 0.35 |
| 75-00-3 | Chloroethane | 1.6 | | 1.3 | 0.51 |
| 156-59-2 | cis-1,2-Dichloroethene | 24 | | 1.3 | 0.38 |
| 75-34-3 | 1,1-Dichloroethane | 28 | | 1.3 | 0.31 |
| 75-35-4 | 1,1-Dichloroethene | 1.3 | | 1.3 | 0.34 |
| 100-41-4 | Ethylbenzene | ND | | 1.3 | 0.33 |
| 91-20-3 | Naphthalene | ND | | 1.3 | 0.31 |
| 127-18-4 | Tetrachloroethene | ND | | 1.3 | 0.38 |
| 108-88-3 | Toluene | ND | | 1.3 | 0.29 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.81 | J | 1.3 | 0.36 |
| 79-01-6 | Trichloroethene | 1.8 | | 1.3 | 0.41 |
| 75-01-4 | Vinyl chloride | 70 | | 1.3 | 0.56 |
| 1330-20-7 | Xylenes, Total | ND | | 2.5 | 0.30 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 99 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 118 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-17D | Lab Sample ID: 240-86300-1

Matrix: Water | Lab File ID: UXM7012.D

Analysis Method: 8260C | Date Collected: 10/09/2017 10:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/21/2017 09:39

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300057 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 78 | D | 2.0 | 0.46 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 97 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 104 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-19D | Lab Sample ID: 240-86388-2

Matrix: Water | Lab File ID: U1260635.D

Analysis Method: 8260C | Date Collected: 10/10/2017 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 22:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300032 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 6.8 | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | ND | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.45 | J | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | ND | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | ND | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 94 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 103 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-20D | Lab Sample ID: 240-86300-4

Matrix: Water | Lab File ID: UXM6973.D

Analysis Method: 8260C | Date Collected: 10/09/2017 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 16:45

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 10 | 2.8 |
| 75-00-3 | Chloroethane | ND | | 10 | 4.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 110 | | 10 | 3.0 |
| 75-34-3 | 1,1-Dichloroethane | 75 | | 10 | 2.5 |
| 75-35-4 | 1,1-Dichloroethene | 5.6 | J | 10 | 2.7 |
| 100-41-4 | Ethylbenzene | ND | | 10 | 2.6 |
| 91-20-3 | Naphthalene | ND | | 10 | 2.5 |
| 127-18-4 | Tetrachloroethene | ND | | 10 | 3.0 |
| 108-88-3 | Toluene | ND | | 10 | 2.3 |
| 156-60-5 | trans-1,2-Dichloroethene | 7.2 | J | 10 | 2.9 |
| 71-55-6 | 1,1,1-Trichloroethane | 550 | | 10 | 2.3 |
| 79-01-6 | Trichloroethene | 5.9 | J | 10 | 3.3 |
| 75-01-4 | Vinyl chloride | 430 | | 10 | 4.5 |
| 1330-20-7 | Xylenes, Total | ND | | 20 | 2.4 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 103 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 119 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 109 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-21D | Lab Sample ID: 240-86300-5

Matrix: Water | Lab File ID: UXM6974.D

Analysis Method: 8260C | Date Collected: 10/09/2017 11:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 17:08

Soil Aliquot Vol: | Dilution Factor: 16.67

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 17 | 4.7 |
| 75-00-3 | Chloroethane | ND | | 17 | 6.8 |
| 156-59-2 | cis-1,2-Dichloroethene | 710 | | 17 | 5.0 |
| 75-34-3 | 1,1-Dichloroethane | 23 | | 17 | 4.2 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 17 | 4.5 |
| 100-41-4 | Ethylbenzene | ND | | 17 | 4.3 |
| 91-20-3 | Naphthalene | ND | | 17 | 4.2 |
| 127-18-4 | Tetrachloroethene | ND | | 17 | 5.0 |
| 108-88-3 | Toluene | ND | | 17 | 3.8 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 17 | 4.8 |
| 71-55-6 | 1,1,1-Trichloroethane | 38 | | 17 | 3.8 |
| 79-01-6 | Trichloroethene | ND | | 17 | 5.5 |
| 75-01-4 | Vinyl chloride | 610 | | 17 | 7.5 |
| 1330-20-7 | Xylenes, Total | ND | | 33 | 4.0 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 115 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: OR-4SM | Lab Sample ID: 240-86376-4

Matrix: Water | Lab File ID: UXM6891.D

Analysis Method: 8260C | Date Collected: 10/11/2017 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/18/2017 18:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299537 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 3.1 | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | 0.53 | J | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | 1.8 | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | 0.42 | J | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | 1.6 | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.9 | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | ND | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | 7.9 | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 101 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 98 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: OR-6SM | Lab Sample ID: 240-86388-7

Matrix: Water | Lab File ID: UX966581.D

Analysis Method: 8260C | Date Collected: 10/10/2017 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/22/2017 20:34

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300098 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 4.5 | J | 4.0 | 1.1 |
| 75-00-3 | Chloroethane | ND | | 4.0 | 1.6 |
| 156-59-2 | cis-1,2-Dichloroethene | 93 | | 4.0 | 1.2 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 4.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 4.0 | 1.1 |
| 100-41-4 | Ethylbenzene | 1.4 | J | 4.0 | 1.0 |
| 91-20-3 | Naphthalene | ND | | 4.0 | 1.0 |
| 127-18-4 | Tetrachloroethene | ND | | 4.0 | 1.2 |
| 108-88-3 | Toluene | 5.0 | | 4.0 | 0.92 |
| 156-60-5 | trans-1,2-Dichloroethene | 9.5 | | 4.0 | 1.2 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 4.0 | 0.92 |
| 79-01-6 | Trichloroethene | ND | | 4.0 | 1.3 |
| 75-01-4 | Vinyl chloride | 24 | | 4.0 | 1.8 |
| 1330-20-7 | Xylenes, Total | 10 | J | 8.0 | 0.96 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 90 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 94 | | 73-120 |

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: OR-10SM | Lab Sample ID: 240-86388-9

Matrix: Water | Lab File ID: UX966582.D

Analysis Method: 8260C | Date Collected: 10/10/2017 14:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/22/2017 20:57

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300098 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | 2.1 | J | 4.0 | 1.1 |
| 75-00-3 | Chloroethane | ND | | 4.0 | 1.6 |
| 156-59-2 | cis-1,2-Dichloroethene | 91 | | 4.0 | 1.2 |
| 75-34-3 | 1,1-Dichloroethane | 2.7 | J | 4.0 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 4.0 | 1.1 |
| 100-41-4 | Ethylbenzene | ND | | 4.0 | 1.0 |
| 91-20-3 | Naphthalene | ND | | 4.0 | 1.0 |
| 127-18-4 | Tetrachloroethene | ND | | 4.0 | 1.2 |
| 108-88-3 | Toluene | 3.1 | J | 4.0 | 0.92 |
| 156-60-5 | trans-1,2-Dichloroethene | 3.5 | J | 4.0 | 1.2 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 4.0 | 0.92 |
| 79-01-6 | Trichloroethene | ND | | 4.0 | 1.3 |
| 75-01-4 | Vinyl chloride | 120 | | 4.0 | 1.8 |
| 1330-20-7 | Xylenes, Total | 1.7 | J | 8.0 | 0.96 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 95 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: OR-14SM | Lab Sample ID: 240-86388-8

Matrix: Water | Lab File ID: U1260641.D

Analysis Method: 8260C | Date Collected: 10/10/2017 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/21/2017 00:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300032 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.79 | J | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | 0.34 | J | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | 1.8 | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | 0.25 | J | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 95 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 104 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: OR-18SM | Lab Sample ID: 240-86376-8

Matrix: Water | Lab File ID: UXM7045.D

Analysis Method: 8260C | Date Collected: 10/11/2017 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 12:57

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 10 | 2.8 |
| 75-00-3 | Chloroethane | ND | | 10 | 4.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 230 | | 10 | 3.0 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 10 | 2.5 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 10 | 2.7 |
| 100-41-4 | Ethylbenzene | ND | | 10 | 2.6 |
| 91-20-3 | Naphthalene | ND | | 10 | 2.5 |
| 127-18-4 | Tetrachloroethene | ND | | 10 | 3.0 |
| 108-88-3 | Toluene | ND | | 10 | 2.3 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 10 | 2.9 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 10 | 2.3 |
| 79-01-6 | Trichloroethene | ND | | 10 | 3.3 |
| 75-01-4 | Vinyl chloride | 90 | | 10 | 4.5 |
| 1330-20-7 | Xylenes, Total | ND | | 20 | 2.4 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 108 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-1D | Lab Sample ID: 240-86441-5

Matrix: Water | Lab File ID: UXM7098.D

Analysis Method: 8260C | Date Collected: 10/12/2017 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 12:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300312 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | 2.9 | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.2 | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | 0.74 | J | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | 0.48 | J | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | 0.27 | J | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.31 | J | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | 28 | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | 0.56 | J | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 104 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-1S | Lab Sample ID: 240-86376-3

Matrix: Water | Lab File ID: UXM7042.D

Analysis Method: 8260C | Date Collected: 10/11/2017 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 11:47

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 5.0 | 1.4 |
| 75-00-3 | Chloroethane | ND | | 5.0 | 2.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 110 | | 5.0 | 1.5 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 5.0 | 1.3 |
| 75-35-4 | 1,1-Dichloroethene | ND | F2 | 5.0 | 1.4 |
| 100-41-4 | Ethylbenzene | ND | | 5.0 | 1.3 |
| 91-20-3 | Naphthalene | ND | | 5.0 | 1.3 |
| 127-18-4 | Tetrachloroethene | ND | | 5.0 | 1.5 |
| 108-88-3 | Toluene | ND | | 5.0 | 1.2 |
| 156-60-5 | trans-1,2-Dichloroethene | 8.2 | | 5.0 | 1.5 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 5.0 | 1.2 |
| 79-01-6 | Trichloroethene | 1.9 | J | 5.0 | 1.7 |
| 75-01-4 | Vinyl chloride | 140 | F1 | 5.0 | 2.3 |
| 1330-20-7 | Xylenes, Total | ND | | 10 | 1.2 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 106 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 98 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

10/31/17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-2D | Lab Sample ID: 240-86441-10

Matrix: Water | Lab File ID: UXM7060.D

Analysis Method: 8260C | Date Collected: 10/12/2017 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 18:41

Soil Aliquot Vol: | Dilution Factor: 1000

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1000 | 280 |
| 75-00-3 | Chloroethane | ND | | 1000 | 410 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1000 | 250 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1000 | 270 |
| 100-41-4 | Ethylbenzene | ND | | 1000 | 260 |
| 91-20-3 | Naphthalene | ND | | 1000 | 250 |
| 127-18-4 | Tetrachloroethene | ND | | 1000 | 300 |
| 108-88-3 | Toluene | ND | | 1000 | 230 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1000 | 290 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1000 | 230 |
| 79-01-6 | Trichloroethene | 1200 | | 1000 | 330 |
| 75-01-4 | Vinyl chloride | 23000 | | 1000 | 450 |
| 1330-20-7 | Xylenes, Total | ND | | 2000 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 103 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-2D | Lab Sample ID: 240-86441-10

Matrix: Water | Lab File ID: UXM7099.D

Analysis Method: 8260C | Date Collected: 10/12/2017 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 12:44

Soil Aliquot Vol: | Dilution Factor: 2000

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300312 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | 65000 | D | 2000 | 600 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 111 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 105 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 73-120 |

11/8/17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-3S | Lab Sample ID: 240-86441-6

Matrix: Water | Lab File ID: UXM7056.D

Analysis Method: 8260C | Date Collected: 10/12/2017 11:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 17:09

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 200 | 56 |
| 75-00-3 | Chloroethane | ND | | 200 | 82 |
| 156-59-2 | cis-1,2-Dichloroethene | 4300 | | 200 | 60 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 200 | 50 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 200 | 54 |
| 100-41-4 | Ethylbenzene | ND | | 200 | 52 |
| 91-20-3 | Naphthalene | ND | | 200 | 50 |
| 127-18-4 | Tetrachloroethene | ND | | 200 | 60 |
| 108-88-3 | Toluene | ND | | 200 | 46 |
| 156-60-5 | trans-1,2-Dichloroethene | 120 | J | 200 | 58 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 200 | 46 |
| 79-01-6 | Trichloroethene | ND | | 200 | 66 |
| 75-01-4 | Vinyl chloride | 1500 | | 200 | 90 |
| 1330-20-7 | Xylenes, Total | ND | | 400 | 48 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 110 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 104 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: PMW-4S | Lab Sample ID: 240-86388-10

Matrix: Water | Lab File ID: UX966583.D

Analysis Method: 8260C | Date Collected: 10/10/2017 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/22/2017 21:21

Soil Aliquot Vol: | Dilution Factor: 25

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300098 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 25 | 7.0 |
| 75-00-3 | Chloroethane | ND | | 25 | 10 |
| 156-59-2 | cis-1,2-Dichloroethene | 860 | | 25 | 7.5 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 25 | 6.3 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 25 | 6.8 |
| 100-41-4 | Ethylbenzene | ND | | 25 | 6.5 |
| 91-20-3 | Naphthalene | ND | | 25 | 6.3 |
| 127-18-4 | Tetrachloroethene | ND | | 25 | 7.5 |
| 108-88-3 | Toluene | ND | | 25 | 5.8 |
| 156-60-5 | trans-1,2-Dichloroethene | 14 | J | 25 | 7.3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 25 | 5.8 |
| 79-01-6 | Trichloroethene | ND | | 25 | 8.3 |
| 75-01-4 | Vinyl chloride | 150 | | 25 | 11 |
| 1330-20-7 | Xylenes, Total | ND | | 50 | 6.0 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 89 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 103 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 103 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-6D | Lab Sample ID: 240-86376-1

Matrix: Water | Lab File ID: UXM7041.D

Analysis Method: 8260C | Date Collected: 10/11/2017 07:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 11:25

Soil Aliquot Vol: | Dilution Factor: 400

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 400 | 110 |
| 75-00-3 | Chloroethane | ND | | 400 | 160 |
| 156-59-2 | cis-1,2-Dichloroethene | 9300 | | 400 | 120 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 400 | 100 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 400 | 110 |
| 100-41-4 | Ethylbenzene | ND | | 400 | 100 |
| 91-20-3 | Naphthalene | ND | | 400 | 100 |
| 127-18-4 | Tetrachloroethene | ND | | 400 | 120 |
| 108-88-3 | Toluene | ND | | 400 | 92 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 400 | 120 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 400 | 92 |
| 79-01-6 | Trichloroethene | 130 | J | 400 | 130 |
| 75-01-4 | Vinyl chloride | 3600 | | 400 | 180 |
| 1330-20-7 | Xylenes, Total | ND | | 800 | 96 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 97 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 93 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-6S | Lab Sample ID: 240-86376-5

Matrix: Water | Lab File ID: UXM6892.D

Analysis Method: 8260C | Date Collected: 10/11/2017 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/18/2017 19:15

Soil Aliquot Vol: | Dilution Factor: 100

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299537 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 100 | 28 |
| 75-00-3 | Chloroethane | ND | | 100 | 41 |
| 156-59-2 | cis-1,2-Dichloroethene | 1800 | | 100 | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 100 | 25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 100 | 27 |
| 100-41-4 | Ethylbenzene | ND | | 100 | 26 |
| 91-20-3 | Naphthalene | ND | | 100 | 25 |
| 127-18-4 | Tetrachloroethene | ND | | 100 | 30 |
| 108-88-3 | Toluene | ND | | 100 | 23 |
| 156-60-5 | trans-1,2-Dichloroethene | 100 | | 100 | 29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 100 | 23 |
| 79-01-6 | Trichloroethene | ND | | 100 | 33 |
| 75-01-4 | Vinyl chloride | 3700 | | 100 | 45 |
| 1330-20-7 | Xylenes, Total | ND | | 200 | 24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 110 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-8D | Lab Sample ID: 240-86441-7

Matrix: Water | Lab File ID: UXM7057.D

Analysis Method: 8260C | Date Collected: 10/12/2017 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 17:32

Soil Aliquot Vol: | Dilution Factor: 1000

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1000 | 280 |
| 75-00-3 | Chloroethane | ND | | 1000 | 410 |
| 156-59-2 | cis-1,2-Dichloroethene | 41000 | | 1000 | 300 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1000 | 250 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1000 | 270 |
| 100-41-4 | Ethylbenzene | ND | | 1000 | 260 |
| 91-20-3 | Naphthalene | ND | | 1000 | 250 |
| 127-18-4 | Tetrachloroethene | ND | | 1000 | 300 |
| 108-88-3 | Toluene | ND | | 1000 | 230 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1000 | 290 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1000 | 230 |
| 79-01-6 | Trichloroethene | 12000 | | 1000 | 330 |
| 75-01-4 | Vinyl chloride | 4500 | | 1000 | 450 |
| 1330-20-7 | Xylenes, Total | ND | | 2000 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 106 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-9D | Lab Sample ID: 240-86441-3

Matrix: Water | Lab File ID: UXM7096.D

Analysis Method: 8260C | Date Collected: 10/12/2017 08:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 11:35

Soil Aliquot Vol: | Dilution Factor: 2000

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300312 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 2000 | 560 |
| 75-00-3 | Chloroethane | ND | | 2000 | 820 |
| 156-59-2 | cis-1,2-Dichloroethene | 62000 | | 2000 | 600 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 2000 | 500 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 2000 | 540 |
| 100-41-4 | Ethylbenzene | ND | | 2000 | 520 |
| 91-20-3 | Naphthalene | ND | | 2000 | 500 |
| 127-18-4 | Tetrachloroethene | ND | | 2000 | 600 |
| 108-88-3 | Toluene | ND | | 2000 | 460 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 2000 | 580 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 2000 | 460 |
| 79-01-6 | Trichloroethene | 12000 | | 2000 | 660 |
| 75-01-4 | Vinyl chloride | 8900 | | 2000 | 900 |
| 1330-20-7 | Xylenes, Total | ND | | 4000 | 480 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 92 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 88 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-10D | Lab Sample ID: 240-86441-8

Matrix: Water | Lab File ID: UXM7058.D

Analysis Method: 8260C | Date Collected: 10/12/2017 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 17:55

Soil Aliquot Vol: | Dilution Factor: 500

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 500 | 140 |
| 75-00-3 | Chloroethane | ND | | 500 | 210 |
| 156-59-2 | cis-1,2-Dichloroethene | 18000 | | 500 | 150 |
| 75-34-3 | 1,1-Dichloroethane | 220 | J | 500 | 130 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 500 | 140 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 130 |
| 91-20-3 | Naphthalene | ND | | 500 | 130 |
| 127-18-4 | Tetrachloroethene | ND | | 500 | 150 |
| 108-88-3 | Toluene | ND | | 500 | 120 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 500 | 150 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 500 | 120 |
| 79-01-6 | Trichloroethene | 1400 | | 500 | 170 |
| 75-01-4 | Vinyl chloride | 6200 | | 500 | 230 |
| 1330-20-7 | Xylenes, Total | ND | | 1000 | 120 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-11D | Lab Sample ID: 240-86376-7

Matrix: Water | Lab File ID: UXM7044.D

Analysis Method: 8260C | Date Collected: 10/11/2017 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 12:34

Soil Aliquot Vol: | Dilution Factor: 100

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 100 | 28 |
| 75-00-3 | Chloroethane | ND | | 100 | 41 |
| 156-59-2 | cis-1,2-Dichloroethene | 4500 | | 100 | 30 |
| 75-34-3 | 1,1-Dichloroethane | 310 | | 100 | 25 |
| 75-35-4 | 1,1-Dichloroethene | 270 | | 100 | 27 |
| 100-41-4 | Ethylbenzene | ND | | 100 | 26 |
| 91-20-3 | Naphthalene | ND | | 100 | 25 |
| 127-18-4 | Tetrachloroethene | 30 | J | 100 | 30 |
| 108-88-3 | Toluene | ND | | 100 | 23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 100 | 29 |
| 79-01-6 | Trichloroethene | 490 | | 100 | 33 |
| 75-01-4 | Vinyl chloride | 430 | | 100 | 45 |
| 1330-20-7 | Xylenes, Total | ND | | 200 | 24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-11D | Lab Sample ID: 240-86376-7

Matrix: Water | Lab File ID: UXM7061.D

Analysis Method: 8260C | Date Collected: 10/11/2017 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 19:04

Soil Aliquot Vol: | Dilution Factor: 500

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 13000 | D | 500 | 120 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 103 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 101 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 73-120 |

11/8/17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: PMW-16D | Lab Sample ID: 240-86525-6

Matrix: Water | Lab File ID: UXM7050.D

Analysis Method: 8260C | Date Collected: 10/13/2017 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 14:52

Soil Aliquot Vol: | Dilution Factor: 1000

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1000 | 280 |
| 75-00-3 | Chloroethane | ND | | 1000 | 410 |
| 156-59-2 | cis-1,2-Dichloroethene | 37000 | | 1000 | 300 |
| 75-34-3 | 1,1-Dichloroethane | 610 | J | 1000 | 250 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1000 | 270 |
| 100-41-4 | Ethylbenzene | ND | | 1000 | 260 |
| 91-20-3 | Naphthalene | ND | | 1000 | 250 |
| 127-18-4 | Tetrachloroethene | ND | | 1000 | 300 |
| 108-88-3 | Toluene | ND | | 1000 | 230 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1000 | 290 |
| 71-55-6 | 1,1,1-Trichloroethane | 5300 | | 1000 | 230 |
| 79-01-6 | Trichloroethene | 950 | J | 1000 | 330 |
| 75-01-4 | Vinyl chloride | 7600 | | 1000 | 450 |
| 1330-20-7 | Xylenes, Total | ND | | 2000 | 240 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 101 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 93 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-17D | Lab Sample ID: 240-86376-9

Matrix: Water | Lab File ID: UXM7046.D

Analysis Method: 8260C | Date Collected: 10/11/2017 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 13:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | 7.4 | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | 3.0 | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | ND | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | 14 | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | 0.81 | J | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | 15 | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | ND | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 107 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: RMW-2D | Lab Sample ID: 240-86525-5

Matrix: Water | Lab File ID: UXM7049.D

Analysis Method: 8260C | Date Collected: 10/13/2017 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 14:29

Soil Aliquot Vol: | Dilution Factor: 5000

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 5000 | 1400 |
| 75-00-3 | Chloroethane | ND | | 5000 | 2100 |
| 156-59-2 | cis-1,2-Dichloroethene | 95000 | | 5000 | 1500 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 5000 | 1300 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 5000 | 1400 |
| 100-41-4 | Ethylbenzene | ND | | 5000 | 1300 |
| 91-20-3 | Naphthalene | ND | | 5000 | 1300 |
| 127-18-4 | Tetrachloroethene | ND | | 5000 | 1500 |
| 108-88-3 | Toluene | ND | | 5000 | 1200 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 5000 | 1500 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 5000 | 1200 |
| 79-01-6 | Trichloroethene | 120000 | | 5000 | 1700 |
| 75-01-4 | Vinyl chloride | ND | | 5000 | 2300 |
| 1330-20-7 | Xylenes, Total | ND | | 10000 | 1200 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 104 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: RMW-3D | Lab Sample ID: 240-86388-5

Matrix: Water | Lab File ID: U1260638.D

Analysis Method: 8260C | Date Collected: 10/10/2017 10:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 23:10

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300032 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 200 | 56 |
| 75-00-3 | Chloroethane | ND | | 200 | 82 |
| 156-59-2 | cis-1,2-Dichloroethene | 1200 | | 200 | 60 |
| 75-34-3 | 1,1-Dichloroethane | 100 | J | 200 | 50 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 200 | 54 |
| 100-41-4 | Ethylbenzene | ND | | 200 | 52 |
| 91-20-3 | Naphthalene | ND | | 200 | 50 |
| 127-18-4 | Tetrachloroethene | ND | | 200 | 60 |
| 108-88-3 | Toluene | ND | | 200 | 46 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 200 | 58 |
| 71-55-6 | 1,1,1-Trichloroethane | 4100 | | 200 | 46 |
| 79-01-6 | Trichloroethene | ND | | 200 | 66 |
| 75-01-4 | Vinyl chloride | 200 | | 200 | 90 |
| 1330-20-7 | Xylenes, Total | ND | | 400 | 48 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 94 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 103 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: RMW-4D | Lab Sample ID: 240-86525-2

Matrix: Water | Lab File ID: UXM7023.D

Analysis Method: 8260C | Date Collected: 10/13/2017 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/21/2017 13:51

Soil Aliquot Vol: | Dilution Factor: 100

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300057 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 100 | 28 |
| 75-00-3 | Chloroethane | ND | | 100 | 41 |
| 156-59-2 | cis-1,2-Dichloroethene | 4500 | | 100 | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 100 | 25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 100 | 27 |
| 100-41-4 | Ethylbenzene | ND | | 100 | 26 |
| 91-20-3 | Naphthalene | ND | | 100 | 25 |
| 127-18-4 | Tetrachloroethene | ND | | 100 | 30 |
| 108-88-3 | Toluene | ND | | 100 | 23 |
| 156-60-5 | trans-1,2-Dichloroethene | 55 | J | 100 | 29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 100 | 23 |
| 79-01-6 | Trichloroethene | 93 | J | 100 | 33 |
| 75-01-4 | Vinyl chloride | 5800 | | 100 | 45 |
| 1330-20-7 | Xylenes, Total | ND | | 200 | 24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 121 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: TB-100917 | Lab Sample ID: 240-86300-9

Matrix: Water | Lab File ID: UXM6978.D

Analysis Method: 8260C | Date Collected: 10/09/2017 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 18:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299922 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | ND | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | ND | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | ND | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 101 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 111 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 106 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: TB-101017 | Lab Sample ID: 240-86388-1

Matrix: Water | Lab File ID: U1260634.D

Analysis Method: 8260C | Date Collected: 10/10/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/20/2017 21:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300032 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | ND | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | ND | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | ND | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 94 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 104 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86376-1

SDG No.:

Client Sample ID: TB-101117  Lab Sample ID: 240-86376-2

Matrix: Water  Lab File ID: UXM7015.D

Analysis Method: 8260C  Date Collected: 10/11/2017 08:00

Sample wt/vol: 5(mL)  Date Analyzed: 10/21/2017 10:47

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: DB-624  ID: 0.18(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300057  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | ND | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | ND | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | ND | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 108 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 113 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: TB-101217 | Lab Sample ID: 240-86441-1

Matrix: Water | Lab File ID: UXM7051.D

Analysis Method: 8260C | Date Collected: 10/12/2017 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/23/2017 15:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300130 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | ND | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | ND | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | ND | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 101 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 94 | | 73-120 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: TB-101317 | Lab Sample ID: 240-86525-1

Matrix: Water | Lab File ID: UXM7022.D

Analysis Method: 8260C | Date Collected: 10/13/2017 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/21/2017 13:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300057 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | | 1.0 | 0.28 |
| 75-00-3 | Chloroethane | ND | | 1.0 | 0.41 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 1.0 | 0.30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 1.0 | 0.25 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 1.0 | 0.27 |
| 100-41-4 | Ethylbenzene | ND | | 1.0 | 0.26 |
| 91-20-3 | Naphthalene | ND | | 1.0 | 0.25 |
| 127-18-4 | Tetrachloroethene | ND | | 1.0 | 0.30 |
| 108-88-3 | Toluene | ND | | 1.0 | 0.23 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 1.0 | 0.29 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.46 | J | 1.0 | 0.23 |
| 79-01-6 | Trichloroethene | ND | | 1.0 | 0.33 |
| 75-01-4 | Vinyl chloride | ND | | 1.0 | 0.45 |
| 1330-20-7 | Xylenes, Total | ND | | 2.0 | 0.24 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 69-120 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 117 | | 69-124 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 107 | | 61-138 |
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 73-120 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86300-1

SDG No.:

Client Sample ID: INJ-7D  Lab Sample ID: 240-86300-7

Matrix: Water  Lab File ID: RSK1020015.D

Analysis Method: RSK-175  Date Collected: 10/09/2017 15:45

Sample wt/vol: 23(mL)  Date Analyzed: 10/20/2017 18:42

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 299970  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 980 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 12 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 1000 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: INJ-11D | Lab Sample ID: 240-86300-6

Matrix: Water | Lab File ID: RSK1020013.D

Analysis Method: RSK-175 | Date Collected: 10/09/2017 15:20

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 18:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 79 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 780 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 87 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: INJ-11D | Lab Sample ID: 240-86300-6

Matrix: Water | Lab File ID: RSK1023006.D

Analysis Method: RSK-175 | Date Collected: 10/09/2017 15:20

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 13:59

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 10000 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 89 | | 60-140 |

10/30/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86441-1

SDG No.:

Client Sample ID: INJ-13D  Lab Sample ID: 240-86441-4

Matrix: Water  Lab File ID: RSK1024008.D

Analysis Method: RSK-175  Date Collected: 10/12/2017 10:15

Sample wt/vol: 23(mL)  Date Analyzed: 10/24/2017 12:53

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300319  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 180 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 1800 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 84 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: INJ-13D | Lab Sample ID: 240-86441-4

Matrix: Water | Lab File ID: RSK1024010.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 10:15

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 21:52

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300439 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 14000 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

11/2/17

INJ-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: DUPLICATE-101217 | Lab Sample ID: 240-86441-2

Matrix: Water | Lab File ID: RSK1024006.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 08:00

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 12:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 210 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 1900 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 85 | | 60-140 |

INJ-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86441-1

SDG No.:

Client Sample ID: DUPLICATE-101217  Lab Sample ID: 240-86441-2

Matrix: Water  Lab File ID: RSK1024006.D

Analysis Method: RSK-175  Date Collected: 10/12/2017 08:00

Sample wt/vol: 23(mL)  Date Analyzed: 10/24/2017 20:44

Soil Aliquot Vol:  Dilution Factor: 5

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300439  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 12000 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 84 | | 60-140 |

11/21/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: MW-2S | Lab Sample ID: 240-86441-9

Matrix: Water | Lab File ID: RSK1024013.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 14:45

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 410 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 20 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 120 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 83 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86376-1

SDG No.:

Client Sample ID: MW-4S  Lab Sample ID: 240-86376-6

Matrix: Water  Lab File ID: RSK1023013.D

Analysis Method: RSK-175  Date Collected: 10/11/2017 10:20

Sample wt/vol: 23(mL)  Date Analyzed: 10/23/2017 15:59

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300166  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 2500 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 17 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 130 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 82 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: MW-7D | Lab Sample ID: 240-86525-4

Matrix: Water | Lab File ID: RSK1024023.D

Analysis Method: RSK-175 | Date Collected: 10/13/2017 11:30

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 17:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 26 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 480 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 81 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: MW-7D | Lab Sample ID: 240-86525-4

Matrix: Water | Lab File ID: RSK1024018.D

Analysis Method: RSK-175 | Date Collected: 10/13/2017 11:30

Sample wt/vol: 23(mL) | Date Analyzed: 10/25/2017 00:08

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300439 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 7800 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 84 | | 60-140 |

DMS 11/3/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: MW-9S | Lab Sample ID: 240-86525-3

Matrix: Water | Lab File ID: RSK1024022.D

Analysis Method: RSK-175 | Date Collected: 10/13/2017 09:25

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 16:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 14 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | ND | | 1.0 | 0.10 |
| 74-85-1 | Ethene | ND | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 85 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-10S  Lab Sample ID: 240-86388-11

Matrix: Water  Lab File ID: RSK1023022.D

Analysis Method: RSK-175  Date Collected: 10/10/2017 16:05

Sample wt/vol: 23(mL)  Date Analyzed: 10/23/2017 18:34

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300166  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 77 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 1.5 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 9.9 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 83 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-11D  Lab Sample ID: 240-86300-2

Matrix: Water  Lab File ID: RSK1020007.D

Analysis Method: RSK-175  Date Collected: 10/09/2017 09:15

Sample wt/vol: 23(mL)  Date Analyzed: 10/20/2017 16:26

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 299970  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 440 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 12 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 20 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-11S | Lab Sample ID: 240-86388-6

Matrix: Water | Lab File ID: RSK1020021.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 11:40

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 20:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 550 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 2.6 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 85 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 83 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-12S | Lab Sample ID: 240-86388-4

Matrix: Water | Lab File ID: RSK1020019.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 10:35

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 19:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 43 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 820 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 81 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-12S | Lab Sample ID: 240-86388-4

Matrix: Water | Lab File ID: RSK1023018.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 10:35

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 17:25

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 4100 | D | 2.0 | 0.35 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 87 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-13D | Lab Sample ID: 240-86300-3

Matrix: Water | Lab File ID: RSK1020008.D

Analysis Method: RSK-175 | Date Collected: 10/09/2017 10:55

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 16:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 2500 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 9.8 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 160 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

MW-13D

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1
SDG No.:
Client Sample ID: DUPLICATE-100917 | Lab Sample ID: 240-86300-8
Matrix: Water | Lab File ID: RSK1020016.D
Analysis Method: RSK-175 | Date Collected: 10/09/2017 08:00
Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 18:59
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 3100 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 8.8 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 170 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 84 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: MW-15D | Lab Sample ID: 240-86388-3

Matrix: Water | Lab File ID: RSK1020018.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 09:05

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 19:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 45 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 0.20 | J | 1.0 | 0.10 |
| 74-85-1 | Ethene | 4.0 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 94 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-17D | Lab Sample ID: 240-86300-1

Matrix: Water | Lab File ID: RSK1020006.D

Analysis Method: RSK-175 | Date Collected: 10/09/2017 10:05

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 16:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 460 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 2.7 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 23 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 85 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86388-1
SDG No.:
Client Sample ID: MW-19D  Lab Sample ID: 240-86388-2
Matrix: Water  Lab File ID: RSK1020017.D
Analysis Method: RSK-175  Date Collected: 10/10/2017 09:00
Sample wt/vol: 23(mL)  Date Analyzed: 10/20/2017 19:17
Soil Aliquot Vol:  Dilution Factor: 1
Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)
% Moisture:  Level: (low/med) Low
Analysis Batch No.: 299970  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 22 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 0.25 | J | 1.0 | 0.10 |
| 74-85-1 | Ethene | ND | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 80 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-20D | Lab Sample ID: 240-86300-4

Matrix: Water | Lab File ID: RSK1020009.D

Analysis Method: RSK-175 | Date Collected: 10/09/2017 12:15

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 17:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 1600 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 8.8 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 250 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 87 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG No.:

Client Sample ID: MW-21D | Lab Sample ID: 240-86300-5

Matrix: Water | Lab File ID: RSK1020012.D

Analysis Method: RSK-175 | Date Collected: 10/09/2017 11:50

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 17:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 200 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 1.7 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 31 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: OR-4SM | Lab Sample ID: 240-86376-4

Matrix: Water | Lab File ID: RSK1023011.D

Analysis Method: RSK-175 | Date Collected: 10/11/2017 09:15

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 15:25

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 6600 | J | 5.0 | 0.87 |
| 74-84-0 | Ethane | 2.1 | J | 5.0 | 0.51 |
| 74-85-1 | Ethene | ND | | 5.0 | 0.53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

10/31/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: OR-6SM | Lab Sample ID: 240-86388-7

Matrix: Water | Lab File ID: RSK1020022.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 11:45

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 20:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 59 | J | 1.0 | 0.10 |
| 74-85-1 | Ethene | 96 | J | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 78 | | 60-140 |

11/1/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: OR-6SM | Lab Sample ID: 240-86388-7

Matrix: Water | Lab File ID: RSK1023019.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 11:45

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 17:43

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 4800 | D5 | 2.0 | 0.35 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 83 | | 60-140 |

11/1/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: OR-10SM | Lab Sample ID: 240-86388-9

Matrix: Water | Lab File ID: RSK1020024.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 14:35

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 21:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 34 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 120 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 77 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: OR-10SM | Lab Sample ID: 240-86388-9

Matrix: Water | Lab File ID: RSK1023020.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 14:35

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 18:00

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 6900 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

11/1/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: OR-14SM | Lab Sample ID: 240-86388-8

Matrix: Water | Lab File ID: RSK1020023.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 13:35

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 20:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 4000 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 4.5 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 11 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 83 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: OR-18SM | Lab Sample ID: 240-86376-8

Matrix: Water | Lab File ID: RSK1023016.D

Analysis Method: RSK-175 | Date Collected: 10/11/2017 11:45

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 16:51

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 7500 | | 5.0 | 0.87 |
| 74-84-0 | Ethane | 6.6 | | 5.0 | 0.51 |
| 74-85-1 | Ethene | 36 | | 5.0 | 0.53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 91 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-1D | Lab Sample ID: 240-86441-5

Matrix: Water | Lab File ID: RSK1024009.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 10:35

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 13:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 320 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 210 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 84 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-1D | Lab Sample ID: 240-86441-5

Matrix: Water | Lab File ID: RSK1024011.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 10:35

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 22:09

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300439 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 15000 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 85 | | 60-140 |

DMK 11/2/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-1S  Lab Sample ID: 240-86376-3

Matrix: Water  Lab File ID: RSK1023010.D

Analysis Method: RSK-175  Date Collected: 10/11/2017 09:05

Sample wt/vol: 23(mL)  Date Analyzed: 10/23/2017 15:08

Soil Aliquot Vol:  Dilution Factor: 5

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300166  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 7400 | | 5.0 | 0.87 |
| 74-84-0 | Ethane | 28 | | 5.0 | 0.51 |
| 74-85-1 | Ethene | 280 | | 5.0 | 0.53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 87 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-2D | Lab Sample ID: 240-86441-10

Matrix: Water | Lab File ID: RSK1024015.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 14:30

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 14:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 120 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 7200 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 84 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-2D  Lab Sample ID: 240-86441-10

Matrix: Water  Lab File ID: RSK1024016.D

Analysis Method: RSK-175  Date Collected: 10/12/2017 14:30

Sample wt/vol: 23(mL)  Date Analyzed: 10/24/2017 23:34

Soil Aliquot Vol:  Dilution Factor: 5

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300439  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 9100 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 83 | | 60-140 |

11/3/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-3S | Lab Sample ID: 240-86441-6

Matrix: Water | Lab File ID: RSK1024010.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 11:50

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 13:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 56 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 460 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 81 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-3S | Lab Sample ID: 240-86441-6

Matrix: Water | Lab File ID: RSK1024012.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 11:50

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 22:26

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300439 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 9100 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 85 | | 60-140 |

dmk 11/2/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: PMW-4S | Lab Sample ID: 240-86388-10

Matrix: Water | Lab File ID: RSK1023021.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 15:15

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 18:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 1000 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 10 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 25 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 87 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-6D | Lab Sample ID: 240-86376-1

Matrix: Water | Lab File ID: RSK1023009.D

Analysis Method: RSK-175 | Date Collected: 10/11/2017 07:50

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 14:50

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 12000 | J | 5.0 | 0.87 |
| 74-84-0 | Ethane | 25 | J | 5.0 | 0.51 |
| 74-85-1 | Ethene | 1200 | J | 5.0 | 0.53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 85 | | 60-140 |

RMK 10/31/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-6S | Lab Sample ID: 240-86376-5

Matrix: Water | Lab File ID: RSK1023012.D

Analysis Method: RSK-175 | Date Collected: 10/11/2017 10:10

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 15:42

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 5300 | | 2.0 | 0.35 |
| 74-84-0 | Ethane | 15 | | 2.0 | 0.20 |
| 74-85-1 | Ethene | 180 | | 2.0 | 0.21 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 84 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-8D | Lab Sample ID: 240-86441-7

Matrix: Water | Lab File ID: RSK1024011.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 11:55

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 13:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 33 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 780 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 74 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-8D | Lab Sample ID: 240-86441-7

Matrix: Water | Lab File ID: RSK1024013.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 11:55

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 22:43

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300439 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 6800 | D | 2.0 | 0.35 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 83 | | 60-140 |

11/2/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-9D | Lab Sample ID: 240-86441-3

Matrix: Water | Lab File ID: RSK1024007.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 08:10

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 12:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 220 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 3800 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 84 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-9D | Lab Sample ID: 240-86441-3

Matrix: Water | Lab File ID: RSK1024009.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 08:10

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 21:35

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300439 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 11000 | D | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 87 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-10D | Lab Sample ID: 240-86441-8

Matrix: Water | Lab File ID: RSK1024012.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 13:25

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 14:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 130 | | 1.0 | 0.10 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 85 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86441-1

SDG No.:

Client Sample ID: PMW-10D | Lab Sample ID: 240-86441-8

Matrix: Water | Lab File ID: RSK1024015.D

Analysis Method: RSK-175 | Date Collected: 10/12/2017 13:25

Sample wt/vol: 23 (mL) | Date Analyzed: 10/24/2017 23:17

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53 (mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300439 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 10000 | D | 5.0 | 0.87 |
| 74-85-1 | Ethene | 8400 | D | 5.0 | 0.53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

11/2/17

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-11D | Lab Sample ID: 240-86376-7

Matrix: Water | Lab File ID: RSK1023015.D

Analysis Method: RSK-175 | Date Collected: 10/11/2017 11:45

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 16:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 230 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 2.6 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 21 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 86 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton  Job No.: 240-86525-1

SDG No.:

Client Sample ID: PMW-16D  Lab Sample ID: 240-86525-6

Matrix: Water  Lab File ID: RSK1024026.D

Analysis Method: RSK-175  Date Collected: 10/13/2017 11:45

Sample wt/vol: 23(mL)  Date Analyzed: 10/24/2017 18:01

Soil Aliquot Vol:  Dilution Factor: 1

Soil Extract Vol.:  GC Column: HP-PLOT/Q  ID: 0.53(mm)

% Moisture:  Level: (low/med) Low

Analysis Batch No.: 300319  Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 2800 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 34 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 840 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 80 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86376-1

SDG No.:

Client Sample ID: PMW-17D | Lab Sample ID: 240-86376-9

Matrix: Water | Lab File ID: RSK1023017.D

Analysis Method: RSK-175 | Date Collected: 10/11/2017 13:15

Sample wt/vol: 23(mL) | Date Analyzed: 10/23/2017 17:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300166 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 360 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 0.62 | J | 1.0 | 0.10 |
| 74-85-1 | Ethene | 7.0 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 88 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: RMW-2D | Lab Sample ID: 240-86525-5

Matrix: Water | Lab File ID: RSK1024024.D

Analysis Method: RSK-175 | Date Collected: 10/13/2017 10:10

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 17:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 430 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 60 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 180 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 81 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86388-1

SDG No.:

Client Sample ID: RMW-3D | Lab Sample ID: 240-86388-5

Matrix: Water | Lab File ID: RSK1020020.D

Analysis Method: RSK-175 | Date Collected: 10/10/2017 10:25

Sample wt/vol: 23(mL) | Date Analyzed: 10/20/2017 20:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 299970 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 40 | | 1.0 | 0.17 |
| 74-84-0 | Ethane | 0.84 | J | 1.0 | 0.10 |
| 74-85-1 | Ethene | 3.0 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 85 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: RMW-4D | Lab Sample ID: 240-86525-2

Matrix: Water | Lab File ID: RSK1024021.D

Analysis Method: RSK-175 | Date Collected: 10/13/2017 09:00

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 16:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300319 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-84-0 | Ethane | 43 | | 1.0 | 0.10 |
| 74-85-1 | Ethene | 2000 | | 1.0 | 0.11 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 80 | | 60-140 |

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-86525-1

SDG No.:

Client Sample ID: RMW-4D | Lab Sample ID: 240-86525-2

Matrix: Water | Lab File ID: RSK1024017.D

Analysis Method: RSK-175 | Date Collected: 10/13/2017 09:00

Sample wt/vol: 23(mL) | Date Analyzed: 10/24/2017 23:51

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: HP-PLOT/Q ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 300439 | Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 74-82-8 | Methane | 8800 | | 5.0 | 0.87 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 420-46-2 | 1,1,1-Trifluoroethane | 82 | | 60-140 |

11/3/17

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: INJ-7D
Lab Sample ID: 240-86300-7
Lab Name: TestAmerica Canton
Job No.: 240-86300-1
SDG ID.:
Matrix: Water
Date Sampled: 10/09/2017 15:45
Reporting Basis: WET
Date Received: 10/11/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 7100 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 6500 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: INJ-11D
Lab Sample ID: 240-86300-6
Lab Name: TestAmerica Canton
Job No.: 240-86300-1
SDG ID.:
Matrix: Water
Date Sampled: 10/09/2017 15:20
Reporting Basis: WET
Date Received: 10/11/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 1000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 11000 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: INJ-13D
Lab Sample ID: 240-86441-4
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 10:15
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 1000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 7600 | 5000 | 70 | ug/L | | | 1 | 6010C |

IND-130

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: DUPLICATE-101217 Lab Sample ID: 240-86441-2

Lab Name: TestAmerica Canton Job No.: 240-86441-1

SDG ID.:

Matrix: Water Date Sampled: 10/12/2017 08:00

Reporting Basis: WET Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 1000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 7900 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-2S
Lab Sample ID: 240-86441-9
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 14:45
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 4000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 3200 | 5000 | 70 | ug/L | J | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-4S
Lab Sample ID: 240-86376-6
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 10:20
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 260 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 6700 | 5000 | 70 | ug/L | | B | 1 | 6010C |

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-7D
Lab Sample ID: 240-86525-4
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 11:30
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 6400 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-9S
Lab Sample ID: 240-86525-3
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 09:25
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 990 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 5500 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-13D
Lab Sample ID: 240-86300-3
Lab Name: TestAmerica Canton
Job No.: 240-86300-1
SDG ID.:
Matrix: Water
Date Sampled: 10/09/2017 10:55
Reporting Basis: WET
Date Received: 10/11/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 6600 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

MW-13D

Client Sample ID: DUPLICATE-100917 Lab Sample ID: 240-86300-8

Lab Name: TestAmerica Canton Job No.: 240-86300-1

SDG ID.:

Matrix: Water Date Sampled: 10/09/2017 08:00

Reporting Basis: WET Date Received: 10/11/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 6300 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-15D
Lab Sample ID: 240-86388-3
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 09:05
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 250 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | ~~4400~~ ND | 5000 | ~~70~~ 5000 | ug/L | J U | ~~B~~ | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-19D
Lab Sample ID: 240-86388-2
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 09:00
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 2100 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 5200 | 5000 | 70 | ug/L | | B | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: OR-4SM
Lab Sample ID: 240-86376-4
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 09:15
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 15000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 21000 | 5000 | 70 | ug/L | | B | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: OR-6SM
Lab Sample ID: 240-86388-7
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 11:45
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 210 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 19000 | 5000 | 70 | ug/L | | B | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: OR-10SM
Lab Sample ID: 240-86388-9
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 14:35
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 440 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | ~~4500~~ ND | 5000 | ~~70~~ 5000 | ug/L | ~~J~~ U | ~~B~~ | 1 | 6010C |

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: OR-14SM
Lab Sample ID: 240-86388-8
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 13:35
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 1500 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | ~~1300~~ ND | 5000 | ~~70~~ 5000 | ug/L | ~~J~~ U | ~~B~~ | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: OR-18SM
Lab Sample ID: 240-86376-8
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 11:45
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 7700 | 5000 | 70 | ug/L | | B | 1 | 6010C |

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-1D
Lab Sample ID: 240-86441-5
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 10:35
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 64000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 9400 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-1S
Lab Sample ID: 240-86376-3
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 09:05
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 1000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 12000 | 5000 | 70 | ug/L | | B | 1 | 6010C |

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-2D
Lab Sample ID: 240-86441-10
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 14:30
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 1500 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 11000 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-3S
Lab Sample ID: 240-86441-6
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 11:50
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 520 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 7600 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-4S
Lab Sample ID: 240-86388-10
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 15:15
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 1300 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | ND ~~1600~~ | 5000 | 5000 ~~70~~ | ug/L | J | ~~B~~ | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-6D
Lab Sample ID: 240-86376-1
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 07:50
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 9100 | 5000 | 70 | ug/L | | B | 1 | 6010C |

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-6S
Lab Sample ID: 240-86376-5
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 10:10
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 4000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 11000 | 5000 | 70 | ug/L | | B | 1 | 6010C |

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1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-8D
Lab Sample ID: 240-86441-7
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 11:55
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 6700 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-9D
Lab Sample ID: 240-86441-3
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 08:10
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 33000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 11000 | 5000 | 70 | ug/L | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-10D
Lab Sample ID: 240-86441-8
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 13:25
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 21000 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 3700 | 5000 | 70 | ug/L | J | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-11D
Lab Sample ID: 240-86376-7
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 11:45
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 130 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | ~~3000~~ | 5000 | 5000 ~~70~~ | ug/L | ~~J~~ U | ~~B~~ | 1 | 6010C |



1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-16D
Lab Sample ID: 240-86525-6
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 11:45
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | ND ~~3500~~ | 5000 | 5000 ~~70~~ | ug/L | J U | | 1 | 6010C |

DMK 11/3/17

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: PMW-17D
Lab Sample ID: 240-86376-9
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 13:15
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 1100 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | ~~1800~~ | 5000 | 5000 ~~70~~ | ug/L | J | ~~B~~ | 1 | 6010C |

10/31/17

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: RMW-2D
Lab Sample ID: 240-86525-5
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 10:10
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 4800 | 5000 | 70 | ug/L | J | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: RMW-3D
Lab Sample ID: 240-86388-5
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 10:25
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 170 | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | ND ~~3100~~ | 5000 | 5000 ~~70~~ | ug/L | J U | ~~B~~ | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: RMW-4D
Lab Sample ID: 240-86525-2
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 09:00
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | 100 | 25 | ug/L | | | 1 | 6010C |
| 7440-09-7 | Potassium | 5300 | 5000 | 70 | ug/L | | | 1 | 6010C |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: INJ-7D
Lab Sample ID: 240-86300-7
Lab Name: TestAmerica Canton
Job No.: 240-86300-1
SDG ID.:
Matrix: Water
Date Sampled: 10/09/2017 15:45
Reporting Basis: WET
Date Received: 10/11/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 53 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 53 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 54 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 54 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 54 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: INJ-11D
Lab Sample ID: 240-86300-6
Lab Name: TestAmerica Canton
Job No.: 240-86300-1
SDG ID.:
Matrix: Water
Date Sampled: 10/09/2017 15:20
Reporting Basis: WET
Date Received: 10/11/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 29 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 29 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 29 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 29 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 29 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: INJ-13D
Lab Sample ID: 240-86441-4
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 10:15
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 63 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 66 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 66 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 66 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 65 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

INJ-130

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUPLICATE-101217 Lab Sample ID: 240-86441-2

Lab Name: TestAmerica Canton Job No.: 240-86441-1

SDG ID.:

Matrix: Water Date Sampled: 10/12/2017 08:00

Reporting Basis: WET Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 66 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 67 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 66 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 67 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 67 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

11/2/17

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2S
Lab Sample ID: 240-86441-9
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 14:45
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 3.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 3.2 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 3.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 3.2 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 3.1 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4S
Lab Sample ID: 240-86376-6
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 10:20
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 5.9 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 6.1 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 5.9 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 6.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 6.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7D
Lab Sample ID: 240-86525-4
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 11:30
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 53 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 54 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 53 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 53 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 53 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-9S
Lab Sample ID: 240-86525-3
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 09:25
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 5.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 5.2 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 5.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 5.2 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 5.1 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-13D
Lab Sample ID: 240-86300-3
Lab Name: TestAmerica Canton
Job No.: 240-86300-1
SDG ID.:
Matrix: Water
Date Sampled: 10/09/2017 10:55
Reporting Basis: WET
Date Received: 10/11/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 3.1 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 3.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 3.1 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 3.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 3.1 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

MW-13D

Client Sample ID: DUPLICATE-100917 | Lab Sample ID: 240-86300-8

Lab Name: TestAmerica Canton | Job No.: 240-86300-1

SDG ID.:

Matrix: Water | Date Sampled: 10/09/2017 08:00

Reporting Basis: WET | Date Received: 10/11/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 3.1 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 3.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 3.2 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 3.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 3.1 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

10/31/17

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-15D
Lab Sample ID: 240-86388-3
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 09:05
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 2.4 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 2.4 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 2.5 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 2.4 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 2.4 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-19D
Lab Sample ID: 240-86388-2
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 09:00
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 5.9 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 5.7 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 5.9 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 5.7 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 5.8 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OR-4SM
Lab Sample ID: 240-86376-4
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 09:15
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 40 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 42 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 40 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 41 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 41 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OR-6SM
Lab Sample ID: 240-86388-7
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 11:45
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 36 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 37 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 35 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 36 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 36 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OR-10SM
Lab Sample ID: 240-86388-9
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 14:35
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 14 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 15 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 14 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 15 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 15 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OR-14SM
Lab Sample ID: 240-86388-8
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 13:35
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 5.3 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 5.6 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 5.7 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 5.7 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 5.6 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OR-18SM
Lab Sample ID: 240-86376-8
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 11:45
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 5.5 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 5.7 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 5.5 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 5.6 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 5.6 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-1D
Lab Sample ID: 240-86441-5
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 10:35
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 460 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 2 | 460 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 3 | 460 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 4 | 450 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| 7440-44-0 | Total Organic Carbon | 460 | 20 | 2.8 | mg/L | | | 20 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-1S
Lab Sample ID: 240-86376-3
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 09:05
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 9.6 | 2.0 | 0.28 | mg/L | | | 2 | 9060A |
| | TOC Result 2 | 10 | 2.0 | 0.28 | mg/L | | | 2 | 9060A |
| | TOC Result 3 | 9.7 | 2.0 | 0.28 | mg/L | | | 2 | 9060A |
| | TOC Result 4 | 10 | 2.0 | 0.28 | mg/L | | | 2 | 9060A |
| 7440-44-0 | Total Organic Carbon | 9.8 | 2.0 | 0.28 | mg/L | | | 2 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-2D
Lab Sample ID: 240-86441-10
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 14:30
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 390 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 2 | 410 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 3 | 400 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 4 | 400 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| 7440-44-0 | Total Organic Carbon | 400 | 20 | 2.8 | mg/L | | | 20 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RMW-3D
Lab Sample ID: 240-86388-5
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 10:25
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 3.3 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 3.3 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 3.3 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 3.2 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 3.3 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-3S
Lab Sample ID: 240-86441-6
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 11:50
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 6.2 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 6.5 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 6.0 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 6.5 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 6.3 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-4S
Lab Sample ID: 240-86388-10
Lab Name: TestAmerica Canton
Job No.: 240-86388-1
SDG ID.:
Matrix: Water
Date Sampled: 10/10/2017 15:15
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 7.3 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 7.4 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 7.4 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 7.6 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 7.4 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-6D
Lab Sample ID: 240-86376-1
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 07:50
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 250 | 10 | 1.4 | mg/L | | | 10 | 9060A |
| | TOC Result 2 | 260 | 10 | 1.4 | mg/L | | | 10 | 9060A |
| | TOC Result 3 | 250 | 10 | 1.4 | mg/L | | | 10 | 9060A |
| | TOC Result 4 | 260 | 10 | 1.4 | mg/L | | | 10 | 9060A |
| 7440-44-0 | Total Organic Carbon | 260 | 10 | 1.4 | mg/L | | | 10 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-6S
Lab Sample ID: 240-86376-5
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 10:10
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 21 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 22 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 21 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 22 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 21 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-8D
Lab Sample ID: 240-86441-7
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 11:55
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 79 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 79 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 78 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 79 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 79 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-9D
Lab Sample ID: 240-86441-3
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 08:10
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 67 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 68 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 59 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 70 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 66 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-10D
Lab Sample ID: 240-86441-8
Lab Name: TestAmerica Canton
Job No.: 240-86441-1
SDG ID.:
Matrix: Water
Date Sampled: 10/12/2017 13:25
Reporting Basis: WET
Date Received: 10/13/2017 09:30

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 320 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 2 | 320 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 3 | 320 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| | TOC Result 4 | 330 | 20 | 2.8 | mg/L | | | 20 | 9060A |
| 7440-44-0 | Total Organic Carbon | 320 | 20 | 2.8 | mg/L | | | 20 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-11D
Lab Sample ID: 240-86376-7
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 11:45
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 2.7 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 2.9 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 2.8 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 2.8 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 2.8 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-16D
Lab Sample ID: 240-86525-6
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 11:45
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 40 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 41 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 40 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 41 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 41 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PMW-17D
Lab Sample ID: 240-86376-9
Lab Name: TestAmerica Canton
Job No.: 240-86376-1
SDG ID.:
Matrix: Water
Date Sampled: 10/11/2017 13:15
Reporting Basis: WET
Date Received: 10/12/2017 09:15

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 9.6 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 9.8 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 9.6 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 9.8 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 9.7 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RMW-2D
Lab Sample ID: 240-86525-5
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 10:10
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 190 | 10 | 1.4 | mg/L | | | 10 | 9060A |
| | TOC Result 2 | 190 | 10 | 1.4 | mg/L | | | 10 | 9060A |
| | TOC Result 3 | 190 | 10 | 1.4 | mg/L | | | 10 | 9060A |
| | TOC Result 4 | 190 | 10 | 1.4 | mg/L | | | 10 | 9060A |
| 7440-44-0 | Total Organic Carbon | 190 | 10 | 1.4 | mg/L | | | 10 | 9060A |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: RMW-4D
Lab Sample ID: 240-86525-2
Lab Name: TestAmerica Canton
Job No.: 240-86525-1
SDG ID.:
Matrix: Water
Date Sampled: 10/13/2017 09:00
Reporting Basis: WET
Date Received: 10/14/2017 09:20

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | TOC Result 1 | 76 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 2 | 78 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 3 | 76 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| | TOC Result 4 | 77 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |
| 7440-44-0 | Total Organic Carbon | 77 | 1.0 | 0.14 | mg/L | | | 1 | 9060A |

# ATTACHMENT B

# SUPPORT DOCUMENTATION

1.6/C1.6 0.8/C0.8 1.4/C1.4 1.0/C1.0

Atlantic Richfield Company

# Laboratory Management Program LaMP Chain of Custody Record

Page ____ of ____

BP/ARC Project Name: BP IPO | Req Due Date (mm/dd/yy): ____ | Rush TAT: Yes ____ No X

BP/ARC Facility No: Ekonol Polyester Resins Site | Lab Work Order Number: ____

| | | | | | |
|---|---|---|---|---|---|
| Lab Name | Test America (Canton, OH) | BP/ARC Facility Address | 6600 Walmore Rd. | Consultant/Contractor | AECOM |
| Lab Address | 4101 Shuffel Street NW, North Canton, OH 44720 | City, State, ZIP Code | Wheatfield, NY 14304 | Consultant/Contractor Project No | 60481767.16.12 |
| Lab PM | Lab Contact: Deborah Dunn | Lead Regulatory Agency | NYSDEC | Address | 257 West Genesee St., Suite 400 Buffalo, NY 14202 |
| Lab Phone | 330-497-9396 / 330-497-0772 | California Global ID No | | Consultant/Contractor PM | James Kaczor |
| Lab Shipping Acct | | Enfos Proposal No | | Phone | 716-923-1300 |
| Lab Bottle Order No | | Accounting Mode | Provision ___ OOC-BU ___ OOC-RM ___ | Email EDD To | James.Kaczor@aecom.com |
| Other Info | | Stage | Activity | Invoice To | BP/ARC ___ Contractor X |

BP/ARC EBM

EBM Phone

EBM Email

| Page | Lab no. | Sample Description | Date | Time | Matrix: Soil / Solid | Matrix: Water / Liquid | Matrix: Air / Vapor | No. Containers / Preservative: Total Number of Containers | Unpreserved | HNO3 | HCl | NaOH Zn-acetate | ~~H2SO4~~ H2SO4 | Requested Analyses: VOCs (SW8260B) | Methane, Ethane, Ethene | Dissolved Iron & Pottasium 6010B | Total Organic Carbon (5310C) | Report Type & QC Level |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Page 1135 of 1138 | | MW-17D | 10-07-17 | 1005 | | X | | | | | 5 | | | X | X | | | (Ekonol Fall Sampling Set) |
| | | MW-11D | 10-07-17 | 0915 | | X | | | | | 5 | | | X | X | | | (Iron/Potassium field filtered) |
| | | MW-13D | 10-07-17 | 1055 | | X | | | | 1 | 5 | | 2 | X | X | X | X | |
| | | MW-20D | 10-07-17 | 1315 | | X | | | | | 5 | | | X | X | | | MS/MSD (11 HCL vials) |
| | | MW-21D | 10-07-17 | 1150 | | X | | | | | 5 | | | X | X | | | |
| | | INJ-11D | 10-07-17 | 1526 | | X | | | | 1 | 5 | | 2 | X | X | X | X | 3 20 ml amber bottles |
| | | INJ-7D | 10-07-17 | 1545 | | X | | | | 1 | 5 | | 2 | X | X | X | X | |
| | | Duplicate-100917 | 10-07-17 | 0500 | | X | | | | 1 | 5 | | 2 | X | X | X | X | MW-13D |
| | | TB-100917 | 10-07-17 | 0400 | | X | | | | | 3 | | | X | | | | |
| | | | | | | | | | | | | | | | | | | |

240-86300 Chain of Custody

**Comments**

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description

| | | | | | |
|---|---|---|---|---|---|
| Sampler's Name | Emily Au | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation / Date / Time |
| Sampler's Company | AECOM | | 10/9/17 | 1630 | 10/9/17 1630 |
| Shipment Method | Dropoff at TA Buffalo, NY | Ship Date 10/9/17 | 10/10/17 | 1600 | 10/11/17 915 |
| Shipment Tracking No | | | | | |

Special Instructions: TA Buffalo to ship to TA Canton

THIS LINE - LAB USE ONLY Custody Seals In Place Yes / No | Temp Blank Yes / No | Cooler Temp on Receipt ____ F/C | Trip Blank Yes / No | MS/MSD Sample Submitted Yes / No

10/28/2017

# CASE NARRATIVE

## Client: AECOM, Inc.

## Project: BP Ekonol

## Report Number: 240-86300-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**
The samples were received on 10/11/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.8° C, 1.0° C, 1.4° C and 1.6° C.

**VOLATILE ORGANIC COMPOUNDS (GCMS)**
Samples MW-17D (240-86300-1), MW-11D (240-86300-2), MW-13D (240-86300-3), MW-20D (240-86300-4), MW-21D (240-86300-5), INJ-11D (240-86300-6), INJ-7D (240-86300-7), DUPLICATE-100917 (240-86300-8) and TB-100917 (240-86300-9) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 10/20/2017 and 10/21/2017.

Samples MW-17D (240-86300-1)[1.25X], MW-17D (240-86300-1)[2X], MW-11D (240-86300-2)[1.67X], MW-11D (240-86300-2)[4X], MW-13D (240-86300-3)[12.5X], MW-20D (240-86300-4)[10X], MW-21D (240-86300-5)[16.67X], INJ-11D (240-86300-6)[500X], INJ-7D (240-86300-7)[2500X], INJ-7D (240-86300-7)[5000X] and DUPLICATE-100917 (240-86300-8)[12.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED GASES**
Samples MW-17D (240-86300-1), MW-11D (240-86300-2), MW-13D (240-86300-3), MW-20D (240-86300-4), MW-21D (240-86300-5), INJ-11D (240-86300-6), INJ-7D (240-86300-7) and DUPLICATE-100917 (240-86300-8) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/20/2017 and 10/23/2017.

Sample INJ-11D (240-86300-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples MW-17D (240-86300-1), MW-11D (240-86300-2), MW-13D (240-86300-3), MW-20D (240-86300-4), MW-20D (240-86300-4[MS]), MW-20D (240-86300-4[MSD]), MW-21D (240-86300-5), INJ-11D (240-86300-6), INJ-7D (240-86300-7), DUPLICATE-100917 (240-86300-8), (CCV 240-299970/14), (CCV 240-299970/25), (CCVRT 240-299970/3), (LCS 240-299970/5), (MB 240-299970/4), (CCV 240-300166/14), (CCVRT 240-300166/3), (LCS 240-300166/5), (MB 240-300166/4), (240-86300-C-6 MS) and (240-86300-C-6 MSD) were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid hold time violations while the SOP was waiting final approval signatures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED METALS (ICP)**
Samples MW-13D (240-86300-3), INJ-11D (240-86300-6), INJ-7D (240-86300-7) and DUPLICATE-100917 (240-86300-8) were analyzed

for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/12/2017 and analyzed on 10/16/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**TOTAL ORGANIC CARBON**

Samples MW-13D (240-86300-3), INJ-11D (240-86300-6), INJ-7D (240-86300-7) and DUPLICATE-100917 (240-86300-8) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 10/14/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1.4/C1.4 1.2/C1.2

Atlantic Richfield Company

# Laboratory Management Program LaMP Chain of Custody Record

Page 1 of 2

BP/ARC Project Name: BP IPO | Req Due Date (mm/dd/yy): | Rush TAT: Yes ___ No X

BP/ARC Facility No: Ekonol Polyester Resins Site | Lab Work Order Number:

| | | | | | |
|---|---|---|---|---|---|
| Lab Name | Test America (Canton, OH) | BP/ARC Facility Address | 6600 Walmore Rd. | Consultant/Contractor | AECOM |
| Lab Address | 4101 Shuffel Street NW, North Canton, OH 44720 | City, State, ZIP Code | Wheatfield, NY 14304 | Consultant/Contractor Project No | 60481767.16.12 |
| Lab PM | Lab Contact. Deborah Dunn | Lead Regulatory Agency | NYSDEC | Address | 257 West Genesee St., Suite 400 Buffalo, NY 14202 |
| Lab Phone | 330-497-9396 / 330-497-0772 | California Global ID No | | Consultant/Contractor PM | James Kaczor |
| Lab Shipping Accnt | | Enfos Proposal No | | Phone | 716-923-1300 |
| Lab Bottle Order No | | Accounting Mode | Provision ___ OOC-BU ___ OOC-RM ___ | Email EDD To | James Kaczor@aecom.com |
| Other Info | | Stage | Activity | Invoice To | BP/ARC ___ Contractor X |
| BP/ARC EBM | | | | | |
| EBM Phone | | | | | |
| EBM Email | | | | | |

| Page No. | Sample Description | Date | Time | Matrix: Soil / Solid | Water / Liquid | Air / Vapor | No. Containers / Preservative: Total Number of Containers | Unpreserved | HNO3 | HCl | NaOH Zn-acetate | Ascor. Acid Sodium Thiosulfate | Requested Analyses: VOCs (SW8260B) | Methane Ethane, Ethene | Dissolved Iron & Potassium 6010B | Total Organic Carbon (5310C) | Report Type & QC Level: Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Page 1234 of 1238 | TB 10:017 | 10 10 17 | — | | X | | 2 | | | 2 | | | X | | | | (Ekonol Fall Sampling Set: |
| | MW-14D | 10 10 17 | 0900 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | (Iron/Potassium field filtered) |
| | MW-15D | 10 10 17 | 0905 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | MW-12S | 10 10 17 | 1035 | | X | | 5 | | | 5 | | | X | X | | | VC + MEE only |
| | RMW-3D | 10 10 17 | 1025 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | MW-11S | 10 10 17 | 1140 | | X | | ~~5~~ 8 | | ~~X~~ 1 | 5 | | ~~X~~ 2 | X | X | | | VC + MEE only |
| | OR-6SM | 10 10 17 | 1145 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | OR-14SM | 10 10 17 | 1335 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | OR-10SM | 10 10 17 | 1435 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW-4S | 10 10 17 | 1515 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |

240-86388 Chain of Custody

| Sampler's Name | Emily Au, Megan Kuzka, Sean Cundy | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|---|
| Sampler's Company | AECOM | Emily Au | 10/10/17 | 1720 | [illegible] TAI | 10/10/17 | 1720 |
| Shipment Method | Dropoff at TA Buffalo NY | Ship Date 10/10/17 | | | | | |
| Shipment Tracking No | | | | | | | |

Special Instructions: TA Buffalo to ship to TA Canton

THIS LINE LAB USE ONLY Custody Seals In Place Yes / No | Temp Blank Yes / No | Cooler Temp on Receipt ___ F/C | Trip Blank Yes / No | MS/MSD Sample Submitted Yes / No

10/25/2017

HHCL 12/CL-S TB

Atlantic Richfield Company
a BP affiliated company

# Laboratory Management Program LaMP Chain of Custody Record



BP/ARC Project Name: BP IPO | Req Due Date (mm/dd/yy): | Rush TAT: Yes ___ No X

BP/ARC Facility No: Ekonol Polyester Resins Site | Lab Work Order Number:

| | | | | | |
|---|---|---|---|---|---|
| Lab Name | Test America (Canton, OH) | BP/ARC Facility Address | 6600 Walmore Rd. | Consultant/Contractor | AECOM |
| Lab Address | 4101 Shuffel Street NW, North Canton, OH 44720 | City State ZIP Code | Wheatfield, NY 14304 | Consultant/Contractor Project No | 60481767.16.12 |
| Lab PM | Lab Contact: Deborah Dunn | Lead Regulatory Agency | NYSDEC | Address | 257 West Genesee St., Suite 400 Buffalo, NY 14202 |
| Lab Phone | 330-497-9396 / 330-497-0772 | California Global ID No | | Consultant/Contractor PM | James Kaczor |
| Lab Shipping Acct | | Enfos Proposal No | | Phone | 716-923-1300 |
| Lab Bottle Order No | | Accounting Mode | Provision ___ OOC-BU ___ OOC-RM ___ | Email EDD To | James Kaczor@aecom com |
| Other Info | | Stage | Activity | Invoice To | BP/ARC ___ Contractor X |

BP/ARC EBM

EBM Phone

EBM Email

Report Type & QC Level: Standard ___ Full Data Package X

| Page 1235 of 1238 | Sample Description | Date | Time* | Matrix: Soil / Solid | Water / Liquid | Air / Vapor | No. Containers / Preservative: Total Number of Containers | Unpreserved | HNO3 | HCl | NaoH/Zn-acetate | H3PO4 | Requested Analyses: VOCs (SW8260B) | Methane,Ethane, Ethene | Dissolved Iron & Pottasium 6010B | Total Organic Carbon (5310C) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-10S | 10/10/17 | 1605 | | X | | 5 | | | 5 | | | X | X | | | (Ekonol Fall Sampling Set; [illegible] |
| | | | | | | | | | | | | | | | | | (Iron/Potassium field filtered) |
| | | | | | | | | | | | | | | | | | |
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| Sampler's Name | Emily Ay, Megan Kuzki, Sean Connelly | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|---|
| Sampler's Company | AECOM | | 10/10/17 | 17:20 | | 10/10/17 | 17:26 |
| Shipment Method | Dropoff at TA Buffalo, NY | Ship Date 10/10/17 | 10/11/17 | 1600 | | 10/11/17 | 0915 |
| Shipment Tracking No | | | | | | | |

Special Instructions: TA Buffalo to ship to TA Canton

THIS LINE - LAB USE ONLY Custody Seals In Place Yes / No | Temp Blank Yes / No | Cooler Temp on Receipt _____ °F/C | Trip Blank Yes / No | MS/MSD Sample Submitted Yes / No

# CASE NARRATIVE

## Client: AECOM, Inc.

## Project: BP Ekonol

## Report Number: 240-86388-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**
The samples were received on 10/12/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 1.4° C.

**VOLATILE ORGANIC COMPOUNDS (GCMS)**
Samples TB-101017 (240-86388-1), MW-19D (240-86388-2), MW-15D (240-86388-3), MW-12S (240-86388-4), RMW-3D (240-86388-5), MW-11S (240-86388-6), OR-6SM (240-86388-7), OR-14SM (240-86388-8), OR-10SM (240-86388-9), PMW-4S (240-86388-10) and MW-10S (240-86388-11) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 10/20/2017, 10/21/2017 and 10/22/2017.

The pH of sample OR-6SM (240-86388-7) was greater than 2. The sample was analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably, Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

Samples MW-15D (240-86388-3)[10X], MW-12S (240-86388-4)[40X], RMW-3D (240-86388-5)[200X], MW-11S (240-86388-6)[2X], OR-6SM (240-86388-7)[4X], OR-10SM (240-86388-9)[4X], PMW-4S (240-86388-10)[25X] and MW-10S (240-86388-11)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED GASES**
Samples MW-19D (240-86388-2), MW-15D (240-86388-3), MW-12S (240-86388-4), RMW-3D (240-86388-5), MW-11S (240-86388-6), OR-6SM (240-86388-7), OR-14SM (240-86388-8), OR-10SM (240-86388-9), PMW-4S (240-86388-10) and MW-10S (240-86388-11) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/20/2017 and 10/23/2017.

Sample OR-6SM (240-86388-7) was collected in properly preserved vials; however, the pH was outside the required criteria when verified by the laboratory. Corrective action was not possible:

Samples MW-12S (240-86388-4)[2X], OR-6SM (240-86388-7)[2X] and OR-10SM (240-86388-9)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples MW-19D (240-86388-2), MW-15D (240-86388-3), MW-12S (240-86388-4), RMW-3D (240-86388-5), MW-11S (240-86388-6), OR-6SM (240-86388-7), OR-14SM (240-86388-8), OR-10SM (240-86388-9), PMW-4S (240-86388-10), MW-10S (240-86388-11), (CCV 240-299970/14), (CCV 240-299970/25), (CCV 240-299970/28), (CCVRT 240-299970/3), (LCS 240-299970/5), (MB 240-299970/4), (CCV 240-300166/14), (CCV 240-300166/23), (CCVRT 240-300166/3), (LCS 240-300166/5) and (MB 240-300166/4) were analyzed following

the requirements of a revised RSK SOP. Samples were analyzed to avoid holding time violations while the SOP was waiting final approval signatures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED METALS (ICP)**

Samples MW-19D (240-86388-2), MW-15D (240-86388-3), RMW-3D (240-86388-5), OR-6SM (240-86388-7), OR-14SM (240-86388-8), OR-10SM (240-86388-9) and PMW-4S (240-86388-10) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/13/2017 and analyzed on 10/16/2017.

Potassium was detected in method blank MB 240-298939/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**TOTAL ORGANIC CARBON**

Samples MW-19D (240-86388-2), MW-15D (240-86388-3), RMW-3D (240-86388-5), OR-6SM (240-86388-7), OR-14SM (240-86388-8), OR-10SM (240-86388-9) and PMW-4S (240-86388-10) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 10/13/2017 and 10/14/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job No.: 240-86388-1

SDG No.:

Concentration Units: ug/L  Lab Sample ID: MB 240-298939/1-A

Instrument Code: I9  Batch No.: 299318

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | | | 6010C |
| 7440-09-7 | Potassium | 115 | J | | 6010C |

1.4/C1.4 1.2/C1.2

Atlantic Richfield Company
A BP affiliated company

# Laboratory Management Program LaMP Chain of Custody Record



BP/ARC Project Name: BP IPO
Req Due Date (mm/dd/yy): ____ Rush TAT: Yes ____ No X
BP/ARC Facility No: Ekonol Polyester Resins Site
Lab Work Order Number: ____

| | | | | | |
|---|---|---|---|---|---|
| Lab Name | Test America (Canton, OH) | BP/ARC Facility Address | 6600 Walmore Rd. | Consultant/Contractor | AECOM |
| Lab Address | 4101 Shuffel Street NW, North Canton, OH 44720 | City, State, ZIP Code | Wheatfield, NY 14304 | Consultant/Contractor Project No | 60481767.16.12 |
| Lab PM | Lab Contact: Deborah Dunn | Lead Regulatory Agency | NYSDEC | Address | 257 West Genesee St., Suite 400 Buffalo, NY 14202 |
| Lab Phone | 330-497-9396 / 330-497-0772 | California Global ID No | | Consultant/Contractor PM | James Kaczor |
| Lab Shipping Acct | | Enfos Proposal No | | Phone | 716-923-1300 |
| Lab Bottle Order No | | Accounting Mode | Provision ___ OOC-BU ___ OOC-RM ___ | Email EDD To | James.Kaczor@aecom.com |
| Other Info | | Stage | Activity | Invoice To | BP/ARC ___ Contractor X |
| BP/ARC EBM | | | | | |
| EBM Phone | | | | | |
| EBM Email | | | | | |

| Page 2 of 2 | Sample Description | Date | Time | Matrix: Soil / Solid | Matrix: Water / Liquid | Matrix: Air / Vapor | No. Containers / Preservative: Total Number of Containers | Unpreserved | HNO3 | HCl | NaOH Zn-acetate | Hexane, H2SO4 | Requested Analyses: VOCs (SW8260B) | Methane, Ethane, Ethene | Dissolved Iron & Potassium 6010B | Total Organic Carbon (5310C) | Report Type & QC Level: Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1135 of 1138 | PMW-6D | 10-11-17 | 0750 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | (Ekonol Fall Sampling Set) |
| | TB-101117 | 10-11-17 | 0800 | | X | | 2 | | | 2 | | | X | | | | (Iron/Potassium field filtered) |
| | PMW-1S | 10-11-17 | 0905 | | X | | 14 | | 1 | 11 | | 2 | X | X | X | X | TMS/MSD |
| | OR-45m | 10-11-17 | 0915 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW-6S | 10-11-17 | 1010 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | MW-4S | 10-11-17 | 1020 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW-11D | 10-11-17 | 1145 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | OR-185m | 10-11-17 | 1145 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW-17D | 10-11-17 | 1315 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | | | | | | | | | | | | | | | | | |

240-86376 Chain of Custody

Report Type & QC Level: Standard ____ Full Data Package X

Comments: Note: If sample not collected, indicate "No Sample" in comments and single strike out and initial any preprinted sample description

| Sampler's Name | Emily Ay, Mary Kuchta, Sean Connelly | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|---|
| Sampler's Company | AECOM | | | | | | |
| Shipment Method | Dropoff at TA Buffalo, NY | | 10/11/17 | 1505 | TA | 10/11/17 | 1505 |
| Shipment Tracking No | Ship Date 10/11/17 | | 10/11/17 | 1600 | TA | 10/11/17 | 0415 |

Special Instructions. TA Buffalo to ship to TA Canton

THIS LINE - LAB USE ONLY Custody Seals in Place Yes / No | Temp Blank Yes / No | Cooler Temp on Receipt ____ F/C | Trip Blank Yes / No | MS/MSD Sample Submitted Yes / No

10/25/2017

# CASE NARRATIVE

## Client: AECOM, Inc.

## Project: BP Ekonol

## Report Number: 240-86376-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**
The samples were received on 10/12/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 1.4° C.

**VOLATILE ORGANIC COMPOUNDS (GCMS)**
Samples PMW-6D (240-86376-1), TB-101117 (240-86376-2), PMW-1S (240-86376-3), OR-4SM (240-86376-4), PMW-6S (240-86376-5), MW-4S (240-86376-6), PMW-11D (240-86376-7), OR-18SM (240-86376-8) and PMW-17D (240-86376-9) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 10/18/2017, 10/21/2017 and 10/23/2017.

The pH of samples OR-4SM (240-86376-4), PMW-6S (240-86376-5), (240-86376-B-5 MS) and (240-86376-B-5 MSD) was greater than 2. The samples were analyzed within the normal 7 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably, Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

Samples PMW-6D (240-86376-1)[400X], PMW-1S (240-86376-3)[5X], PMW-6S (240-86376-5)[100X], MW-4S (240-86376-6)[100X], PMW-11D (240-86376-7)[100X], PMW-11D (240-86376-7)[500X] and OR-18SM (240-86376-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Vinyl chloride failed the recovery criteria low for the MS of sample PMW-1SMS (240-86376-3) in batch 240-300130.

1,1-Dichloroethene exceeded the RPD limit for the MSD of sample PMW-1SMSD (240-86376-3) in batch 240-300130.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED GASES**
Samples PMW-6D (240-86376-1), PMW-1S (240-86376-3), OR-4SM (240-86376-4), PMW-6S (240-86376-5), MW-4S (240-86376-6), PMW-11D (240-86376-7), OR-18SM (240-86376-8) and PMW-17D (240-86376-9) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/23/2017.

Samples PMW-6D (240-86376-1) and OR-4SM (240-86376-4) were collected in properly preserved vials for analysis; however, the pH was outside the required criteria when verified by the laboratory. Corrective action was not possible.

Samples PMW-6D (240-86376-1)[5X], PMW-1S (240-86376-3)[5X], OR-4SM (240-86376-4)[5X], PMW-6S (240-86376-5)[2X] and OR-18SM (240-86376-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples PMW-6D (240-86376-1), PMW-1S (240-86376-3), OR-4SM (240-86376-4), PMW-6S (240-86376-5), MW-4S (240-86376-6), PMW-11D (240-86376-7), OR-18SM (240-86376-8), PMW-17D (240-86376-9), (CCV 240-300166/14), (CCV 240-300166/23), (CCVRT 240-300166/3), (LCS 240-300166/5) and (MB 240-300166/4) were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid holding time violations while the SOP was waiting for final approval signatures:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED METALS (ICP)**

Samples PMW-6D (240-86376-1), PMW-1S (240-86376-3), OR-4SM (240-86376-4), PMW-6S (240-86376-5), MW-4S (240-86376-6), PMW-11D (240-86376-7), OR-18SM (240-86376-8) and PMW-17D (240-86376-9) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/13/2017 and analyzed on 10/16/2017.

Potassium was detected in method blank MB 240-298939/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**TOTAL ORGANIC CARBON**

Samples PMW-6D (240-86376-1), PMW-1S (240-86376-3), OR-4SM (240-86376-4), PMW-6S (240-86376-5), MW-4S (240-86376-6), PMW-11D (240-86376-7), OR-18SM (240-86376-8) and PMW-17D (240-86376-9) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 10/13/2017.

Samples PMW-6D (240-86376-1)[10X] and PMW-1S (240-86376-3)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton  Job No.: 240-86376-1

SDG No.:

Concentration Units: ug/L  Lab Sample ID: MB 240-298939/1-A

Instrument Code: I9  Batch No.: 299318

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7439-89-6 | Iron | ND | | | 6010C |
| 7440-09-7 | Potassium | 115 | J | | 6010C |

FORM III-IN

2.6/C2.C

# Atlantic Richfield Company

## Laboratory Management Program LaMP Chain of Custody Record



BP/ARC Project Name: BP IPO | Req Due Date (mm/dd/yy): | Rush TAT: Yes ___ No X

BP/ARC Facility No: Ekonol Polyester Resins Site | Lab Work Order Number:

| | | | | | |
|---|---|---|---|---|---|
| Lab Name | Test America (Canton, OH) | BP/ARC Facility Address | 6600 Walmore Rd. | Consultant/Contractor | AECOM |
| Lab Address | 4101 Shuffel Street NW, North Canton, OH 44720 | City State ZIP Code | Wheatfield, NY 14304 | Consultant/Contractor Project No | 60481767.16.12 |
| Lab PM | Lab Contact: Deborah Dunn | Lead Regulatory Agency | NYSDEC | Address | 257 West Genesee St., Suite 400 Buffalo, NY 14202 |
| Lab Phone | 330-497-9396 / 330-497-0772 | California Global ID No | | Consultant/Contractor PM | James Kaczor |
| Lab Shipping Acct | | Enfos Proposal No | | Phone | 716-923-1300 |
| Lab Bottle Order No | | Accounting Mode | Provision ___ OOC-BU ___ OOC-RM ___ | Email EDD To | James.Kaczor@aecom.com |
| Other Info | | Stage | Activity | Invoice To | BP/ARC ___ Contractor X |
| BP/ARC EBM | | | | | |
| EBM Phone | | | | | |
| EBM Email | | | | | |

| Page | Sample Description | Date | Time | Matrix: Soil / Solid | Matrix: Water / Liquid | Matrix: Air / Vapor | No. Containers / Preservative: Total Number of Containers | Unpreserved | HNO3 | HCl | NaOH Zn-acetate | H2SO4 | Requested Analyses: VOCs (SW8260B) | Methane,Ethane, Ethene | Dissolved Iron & Pottasium 6010B | Total Organic Carbon (5310C) | Report Type & QC Level / Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Page 1162 of 1164 | TB-101217 | 10/12/17 | 0805 | | X | | 2 | | | 2 | | | X | | | | (Ekonol Fall Sampling Set) |
| | Duplicate-101217 | 10/12/17 | 0800 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | (Iron/Potassium field filtered) |
| | PMW-9D | 10/12/17 | 0810 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | INJ-13D | 10/12/17 | 1015 | | X | | 8 | | 1 | 5 | | 3 | X | X | X | X | |
| | PMW-1D | 10/12/17 | 1035 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW-3S | 10/12/17 | 1150 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW-8D | 10/12/17 | 1155 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW-10D | 10/12/17 | 1325 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | MW-2S | 10/12/17 | 1445 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW-2D | 10/12/17 | 1430 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |

240-86441 Chain of Custody

| Sampler's Name | E Au, M. Kuzko, S. Connelly | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|---|
| Sampler's Company | AECOM | | 10/12/17 | 1605 | | 10/12/17 | 1705 |
| Shipment Method | Dropoff at TA Buffalo, NY | Ship Date 10/12/17 | 10/12/17 | 1705 | / TA | 10/13/17 | 930 |
| Shipment Tracking No | | | | | | | |

Special Instructions: TA Buffalo to ship to TA Canton

THIS LINE LAB USE ONLY Custody Seals In Place Yes / No | Temp Blank Yes / No | Cooler Temp on Receipt _____ F/C | Trip Blank Yes / No | MS/MSD Sample Submitted Yes / No

# CASE NARRATIVE

## Client: AECOM, Inc.

## Project: BP Ekonol

## Report Number: 240-86441-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**
The samples were received on 10/13/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

**VOLATILE ORGANIC COMPOUNDS (GCMS)**
Samples TB-101217 (240-86441-1), DUPLICATE-101217 (240-86441-2), PMW-9D (240-86441-3), INJ-13D (240-86441-4), PMW-1D (240-86441-5), PMW-3S (240-86441-6), PMW-8D (240-86441-7), PMW-10D (240-86441-8), MW-2S (240-86441-9) and PMW-2D (240-86441-10) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 10/23/2017 and 10/24/2017.

Samples DUPLICATE-101217 (240-86441-2)[625X], PMW-9D (240-86441-3)[2000X], INJ-13D (240-86441-4)[500X], PMW-3S (240-86441-6)[200X], PMW-8D (240-86441-7)[1000X], PMW-10D (240-86441-8)[500X], MW-2S (240-86441-9)[5000X], PMW-2D (240-86441-10)[1000X] and PMW-2D (240-86441-10)[2000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED GASES**
Samples DUPLICATE-101217 (240-86441-2), PMW-9D (240-86441-3), INJ-13D (240-86441-4), PMW-1D (240-86441-5), PMW-3S (240-86441-6), PMW-8D (240-86441-7), PMW-10D (240-86441-8), MW-2S (240-86441-9) and PMW-2D (240-86441-10) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/24/2017.

Samples DUPLICATE-101217 (240-86441-2)[5X], PMW-9D (240-86441-3)[5X], INJ-13D (240-86441-4)[5X], PMW-1D (240-86441-5)[5X], PMW-3S (240-86441-6)[5X], PMW-8D (240-86441-7)[2X], PMW-10D (240-86441-8)[5X] and PMW-2D (240-86441-10)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples DUPLICATE-101217 (240-86441-2), PMW-9D (240-86441-3), INJ-13D (240-86441-4), PMW-1D (240-86441-5), PMW-3S (240-86441-6), PMW-8D (240-86441-7), PMW-10D (240-86441-8), MW-2S (240-86441-9), PMW-2D (240-86441-10), (CCV 240-300319/14), (CCV 240-300319/25), (CCVRT 240-300319/3), (LCS 240-300319/5), (MB 240-300319/4), (CCV 240-300439/14), (CCV 240-300439/19), (CCVRT 240-300439/3), (LCS 240-300439/5), (MB 240-300439/4), (240-86441-D-2 MS) and (240-86441-D-2 MSD). The associated RSK samples were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid holding time violations while the SOP was waiting final approval signatures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED METALS (ICP)**
Samples DUPLICATE-101217 (240-86441-2), PMW-9D (240-86441-3), INJ-13D (240-86441-4), PMW-1D (240-86441-5), PMW-3S (240-86441-6), PMW-8D (240-86441-7), PMW-10D (240-86441-8), MW-2S (240-86441-9) and PMW-2D (240-86441-10) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/16/2017 and analyzed on 10/17/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**TOTAL ORGANIC CARBON**
Samples DUPLICATE-101217 (240-86441-2), PMW-9D (240-86441-3), INJ-13D (240-86441-4), PMW-1D (240-86441-5), PMW-3S (240-86441-6), PMW-8D (240-86441-7), PMW-10D (240-86441-8), MW-2S (240-86441-9) and PMW-2D (240-86441-10) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 10/19/2017.

Samples PMW-1D (240-86441-5)[20X], PMW-10D (240-86441-8)[20X] and PMW-2D (240-86441-10)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

1.6/C.6

Atlantic Richfield Company
a BP affiliated company

# Laboratory Management Program LaMP Chain of Custody Record

Page 1 of 1

BP/ARC Project Name: BP IPO
Req Due Date (mm/dd/yy):
Rush TAT: Yes ___ No X

BP/ARC Facility No: Ekonol Polyester Resins Site
Lab Work Order Number:

| | | | | | |
|---|---|---|---|---|---|
| Lab Name | Test America (Canton, OH) | BP/ARC Facility Address | 6600 Walmore Rd. | Consultant/Contractor | AECOM |
| Lab Address | 4101 Shuffel Street NW, North Canton, OH 44720 | City, State, ZIP Code | Wheatfield, NY 14304 | Consultant/Contractor Project No | 60481767.16.12 |
| Lab PM | Lab Contact: Deborah Dunn | Lead Regulatory Agency | NYSDEC | Address | 257 West Genesee St., Suite 400 Buffalo, NY 14202 |
| Lab Phone | 330-497-9396 / 330-497-0772 | California Global ID No | | Consultant/Contractor PM | James Kaczor |
| Lab Shipping Acct | | Enfos Proposal No | | Phone | 716-923-1300 |
| Lab Bottle Order No | | Accounting Mode | Provision ___ OOC-BU ___ OOC-RM ___ | Email EDD To | James Kaczor@aecom.com |
| Other Info | | Stage | Activity | Invoice To | BP/ARC ___ Contractor X |
| BP/ARC EBM | | | | | |
| EBM Phone | | | | | |
| EBM Email | | | | | |

| Page 1062 of 1064 Lab No. | Sample Description | Date | Time | Matrix: Soil / Solid | Matrix: Water / Liquid | Matrix: Air / Vapor | No. Containers / Preservative: Total Number of Containers | Unpreserved | HNO3 | HCl | NaOH/Zn-acetate | H2SO4 | Requested Analyses: VOCs (SW8260B) | Methane, Ethane, Ethene | Dissolved Iron & Pottasium 6010B | Total Organic Carbon (5310C) | Report Type & QC Level |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TB - 101317 | 10/13/17 | 0500 | | X | | 2 | | | 2 | | | X | | | | (Ekonol Fall Sampling Set) |
| | RMW - 4D | 10/13/17 | 0900 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | (Iron/Potassium field filtered) |
| | MW - 9S | 10/13/17 | 0925 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | MW - 7D | 10/13/17 | 1130 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | RMW - 2D | 10/13/17 | 1010 | | X | | 8 | | 1 | 5 | | 2 | X | X | X | X | |
| | PMW - 16D | 10/13/17 | 1145 | | X | | 3 | | 1 | 5 | | 2 | X | X | X | X | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

240-86525 Chain of Custody

Comments
Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description

Standard ___
Full Data Package X

| | | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|---|
| Sampler's Name | E Au, M Kwiatek, S Connelly | | | | | | |
| Sampler's Company | AECOM | | 10/13/17 | 1300 | | 10/13/17 | 1305 |
| Shipment Method | Dropoff at TA Buffalo NY | | | | | | |
| Shipment Tracking No | Ship Date 10/13/17 | | 10/14/17 | 1600 | | 10/14/17 | 920 |

Special Instructions: TA Buffalo to ship to TA Canton

THIS LINE - LAB USE ONLY Custody Seals In Place Yes / No | Temp Blank Yes / No | Cooler Temp on Receipt ___ F/C | Trip Blank Yes / No | MS/MSD Sample Submitted Yes / No

BP/ARC LaMP COC Rev 6 01/01/2009

# CASE NARRATIVE

## Client: AECOM, Inc.

## Project: BP Ekonol

## Report Number: 240-86525-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

**RECEIPT**
The samples were received on 10/14/2017 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

**VOLATILE ORGANIC COMPOUNDS (GCMS)**
Samples TB-101317 (240-86525-1), RMW-4D (240-86525-2), MW-9S (240-86525-3), MW-7D (240-86525-4), RMW-2D (240-86525-5) and PMW-16D (240-86525-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 10/21/2017 and 10/23/2017.

Samples RMW-4D (240-86525-2)[100X], MW-7D (240-86525-4)[1000X], RMW-2D (240-86525-5)[5000X] and PMW-16D (240-86525-6) [1000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED GASES**
Samples RMW-4D (240-86525-2), MW-9S (240-86525-3), MW-7D (240-86525-4), RMW-2D (240-86525-5) and PMW-16D (240-86525-6) were analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 10/24/2017 and 10/25/2017.

Samples RMW-4D (240-86525-2)[5X] and MW-7D (240-86525-4)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples RMW-4D (240-86525-2), MW-9S (240-86525-3), MW-7D (240-86525-4), RMW-2D (240-86525-5), PMW-16D (240-86525-6), (CCV 240-300319/14), (CCV 240-300319/25), (CCV 240-300319/27), (CCVRT 240-300319/3), (LCS 240-300319/5), (MB 240-300319/4), (CCV 240-300439/14), (CCV 240-300439/19), (CCVRT 240-300439/3), (LCS 240-300439/5) and (MB 240-300439/4) were analyzed following the requirements of a revised RSK SOP. Samples were analyzed to avoid holding time violations while the SOP was waiting final approval signatures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DISSOLVED METALS (ICP)**
Samples RMW-4D (240-86525-2), MW-9S (240-86525-3), MW-7D (240-86525-4), RMW-2D (240-86525-5) and PMW-16D (240-86525-6) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/16/2017 and analyzed on 10/17/2017.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**TOTAL ORGANIC CARBON**

Samples RMW-4D (240-86525-2), MW-9S (240-86525-3), MW-7D (240-86525-4), RMW-2D (240-86525-5) and PMW-16D (240-86525-6) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 10/19/2017.

Sample RMW-2D (240-86525-5)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton  Job No.: 240-86525-1

SDG No.:

Instrument ID: I12  Analysis Method: 6010C

Start Date: 10/17/2017 09:33  End Date: 10/18/2017 08:11

| Lab Sample Id | D/F | Type | Time | Analytes | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton  Job No.: 240-86525-1

SDG No.:

Instrument ID: I12  Analysis Method: 6010C

Start Date: 10/17/2017 09:33  End Date: 10/18/2017 08:11

| Lab Sample Id | D/F | Type | Time | Analytes | | |

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-86525-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | ICB 240-299409/5 10/17/2017 09:51 | | CCB 240-299409/31 10/17/2017 11:53 | | CCB 240-299409/43 10/17/2017 12:56 | | CCB 240-299409/55 10/17/2017 13:56 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Iron** | 100 | ND | | ND | | ND | | ND | |
| **Potassium** | 5000 | ND | | 71.9 | J | ND | | ND | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton  Job No.: 240-86525-1

SDG No.:

Concentration Units: ug/L

| Analyte | RL | CCB 240-299409/62 10/17/2017 14:29 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Iron** | 100 | ND | | | | | | | |
| **Potassium** | 5000 | 106 | J | | | | | | |

Italicized analytes were not requested for this sequence.

# Appendix D

# Historical Analytical Data

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ- 1**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/15/2008 | 840 J | 100000 | 23000 | 5.0 U | 5.0 U | 1600 J | 7 | 17 | 78 | 5.0 U | 5.0 U | 5.0 U | | 6.46 | 1480 | | | | | | | |
| 7/24/2008 | 5000 UJ | 2600 J | 150000 J | 380 J | 5000 UJ | 1600 J | 9.2 J | 52 J | 100 J | 5000 UJ | 5000 UJ | 5000 UJ | | 202 J | 1150 J | | | | | | | |
| 9/29/2008 | 5000 U | 3300 J | 110000 | 920 J | 210 J | 2900 J | 6.5 | 16 | 100 | 5000 U | 5000 U | 5000 U | | 333 | 917 | | | | | | | |
| 12/15/2008 | 100 J | 14000 | 120000 J | 1100 J | 220 J | 3500 | 6.4 | 12 | 66 | 5.0 U | 62 J | 5.0 U | | 441 | 260 | | | | | | | |
| 6/4/2009 | 130 J | 17000 | 110000 | 330 J | 260 J | 3600 | 9.2 | 140 | 250 | 1300 U | 110 J | 1300 U | 0.376 | 515 | 311 | 102 | | | | | | |
| 10/13/2009 | 110 J | 19000 | 99000 | 300 J | 260 J | 3500 | 11 | 110 | 440 | 1000 U | 72 J | 1000 U | 0.0394 J | 365 | 991 | 247 | | | | | | |
| 7/19/2010 | 500 U | 9900 | 83000 | 170 J | 120 J | 3700 | 40 | 330 | 1000 | 500 U | 500 U | 500 U | 4.72 | 545 | 130 | 169 | | | | | | |
| 6/23/2011 | 600 J | 90000 | 99000 | 180 J | 290 J | 3000 | 12 | 93 | 170 | 1000 U | 1000 U | 1000 U | 0.0308 J | 51 | 1390 | 117 | | | | | | |
| 8/24/2011 | 390 J | 44000 | 110000 | 240 J | 220 J | 2900 | 22 | 260 | 720 | 500 U | 500 U | 500 U | 0.0878 J | 239 | 270 | 272 | | | | | | |
| 11/8/2011 | 660 | 54000 | 87000 | 130 J | 200 J | 3500 | 21 | 540 | 2800 | 110 J | 500 U | 500 U | 0.127 J | 139 | 464 J | 190 | | | | | | |
| 3/20/2012 | 470 | 29000 | 48000 | 88 J | 110 | 3000 | 11 | 100 | 1800 | 87 J | 37 J | 100 U | 0.2 U | 32.4 | 1790 J | 203 | | | | | | |
| 6/27/2012 | 570 | 51000 | 34000 | 52 J | 82 J | 1100 | 13 | 76 | 1300 | 1000 | 83 J | 250 U | 0.04 J | 25.6 | 261 J | 148 | | | | | | |
| 9/18/2012 | 450 | 32000 | 49000 | 80 J | 120 | 5700 | 89 | 440 | 4300 | 290 | 58 J | 100 U | 0.0484 J | 79.5 | 54.2 | 121 | | | | | | |
| 12/10/2012 | 140 J | 3600 | 100000 | 100 J | 90 J | 2800 | 28 | 310 | 1800 | 86 J | 500 U | 500 UJ | 0.812 | 1640 | 498 | 170 | | | | | | |
| 4/11/2013 | 84 J | 5300 | 150000 | 220 J | 110 J | 3600 | 13 | 190 | 1700 | 500 U | 140 J | 500 U | 1.32 | 1060 | 304 | 169 | | | | | | |
| 7/16/2013 | 87 J | 4100 | 120000 | 150 J | 91 J | 3900 | 18 | 370 | 1600 | 500 UJ | 120 J | 500 U | 20.5 | 780 | 202 | 61.8 | | | | | | |
| 10/14/2013 | 2500 U | 3900 | 140000 | 2500 U | 2500 U | 4000 | 33 | 610 | 2100 | 2500 U | 2500 U | 2500 U | 4.47 | 715 | 66.7 | 128 | | | | | | |
| 12/9/2013 | 1300 U | 3200 | 140000 | 1300 U | 1300 U | 4300 | 30 | 620 | 3000 | 1300 U | 1300 U | 1300 U | 1.2 | 571 | 126 | 171 | | | | | | |
| 4/9/2014 | 54 J | 8800 | 160000 | 260 | 230 | 11000 | 24 | 1200 | 4800 | 100 U | 89 J | 100 U | 2.92 | 440 | 25.8 | 87.1 | 6.23 | | | | | |
| 8/22/2014 | 100 U | 7700 | 94000 | 210 | 160 | 19000 | 37 | 4600 | 9100 | 100 U | 70 J | 100 U | 1.2 | 388 | 74.9 | 94.6 | 6.48 | | | | | |
| 12/10/2014 | 200 U | 3500 | 89000 | 200 J | 100 J | 13000 | 30 | 5000 | 9400 | 200 U | 200 U | 200 U | 0.357 J | 337 | 86.7 | 113 | 6.34 | | | | | |
| 3/30/2015 | 30 J | 4800 | 84000 | 210 | 150 | 14000 | 26 | 5200 | 10000 | 50 U | 45 J | 50 U | 1.21 | 269 | 17 | 76 | 6.32 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ- 2**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/3/2009 | 2500 U | 5300 | 75000 | 2500 U | 2500 U | 8400 | 13 | 630 | 4400 | 2500 U | 2500 U | 2500 U | 0.595 | 297 | 62.7 | 97.8 | | | | | | |
| 7/19/2010 | 250 U | 250 U | 78000 | 240 J | 170 J | 29000 | 24 U | 340 | 6300 | 250 U | 250 U | 250 U | 0.24 | 121 | 3.5 J | 62.7 | | | | | | |
| 8/31/2011 | 250 U | 93 J | 90000 | 110 J | 170 J | 19000 | 31 | 1300 | 400 | 250 U | 250 U | 250 U | 11.4 | 194 | 2.5 J | 0.68 | | | | | | |
| 3/27/2012 | 5.9 J | 190 | 4900 | 8.4 J | 18 J | 1500 | 6.5 | 140 | 350 | 25 U | 25 U | 25 U | 1.84 | 92.5 | 3.1 J | 93.1 | | | | | | |
| 6/22/2012 | 100 U | 38 J | 14000 | 26 J | 51 J | 4200 | 18 J | 360 J | 1200 | 100 UJ | 100 U | 100 U | 1.32 J | 97.8 | 1.7 J | 24.1 | | | | | | |
| 9/25/2012 | 66 | 5700 | 13000 | 26 J | 110 | 2100 | 20 | 220 | 1400 | 9.4 J | 50 U | 50 U | 0.339 | 50.1 | 2.6 J | 5.8 | | | | | | |
| 12/13/2012 | 93 J | 3600 | 54000 | 2700 | 430 J | 8800 | 17 | 110 | 1500 | 95 J | 230 J | 500 U | 425 | 1940 | 8.4 | 9.5 | | | | | | |
| 4/12/2013 | 190 J | 26000 | 200000 | 220 J | 1000 U | 2500 | 13 | 140 | 1400 | 1000 U | 1000 U | 1000 U | 13.4 | 1170 | 270 | 135 | | | | | | |
| 7/11/2013 | 500 U | 6200 | 140000 | 230 J | 180 J | 2400 | 45 | 490 | 1200 | 500 UJ | 500 U | 500 U | 241 | 1040 | 5 J | 5.5 | | | | | | |
| 10/17/2013 | 1000 U | 270 J | 190000 | 240 J | 340 J | 3800 | 86 | 690 | 1500 | 1000 U | 1000 U | 1000 U | 338 | 962 | 5 U | 0.36 | | | | | | |
| 12/11/2013 | 95 J | 8600 | 160000 | 240 J | 310 J | 5800 | 51 | 440 | 1000 | 500 U | 500 U | 500 U | 22.4 | 690 | 42.2 | 58 | | | | | | |
| 4/10/2014 | 100 U | 930 | 65000 | 120 | 67 J | 5100 | 29 | 620 | 2000 | 100 U | 100 U | 100 U | 182 | 611 | 1.6 J | 2.3 | 6.02 | | | | | |
| 8/20/2014 | 55 | 4400 | 44000 | 160 | 58 | 12000 | 63 | 3700 | 11000 | 50 U | 37 J | 50 U | 2.53 | 258 | 18 | 60.2 | 6.55 | | | | | |
| 12/11/2014 | 200 | 20000 | 90000 | 220 | 110 | 11000 | 37 | 6300 | 12000 | 100 U | 100 U | 100 U | 1.53 | 311 | 163 | 87.6 | 6.96 | | | | | |
| 4/2/2015 | 92 | 5100 | 24000 | 91 | 49 J | 6600 | 34 | 4400 | 8700 | 50 U | 50 U | 50 U | 118 | 396 | 4.4 J | 2.8 | 6.44 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ- 4**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/3/2009 | 2500 U | 14000 | 120000 | 2500 U | 2500 U | 1900 | 9.7 | 80 | 220 | 2500 U | 2500 U | 2500 U | 0.509 | 637 | 56.7 | 158 | | | | | | |
| 10/13/2009 | 240 J | 20000 | 110000 | 290 J | 290 J | 3200 | 10 | 70 | 300 | 1000 U | 120 J | 1000 U | 0.0381 J | 454 | 506 | 221 | | | | | | |
| 7/19/2010 | 150 J | 17000 | 130000 | 260 J | 170 J | 6200 | 19 | 260 | 1400 | 500 U | 120 J | 500 U | 0.442 | 469 | 73.3 | 155 | | | | | | |
| 8/30/2011 | 870 | 74000 | 84000 | 130 J | 200 J | 1300 | 23 | 200 | 660 | 250 J | 500 U | 500 U | 1.52 | 259 | 146 | 257 | | | | | | |
| 3/27/2012 | 720 | 40000 | 48000 | 83 J | 77 J | 1300 | 20 | 250 | 3300 | 170 J | 96 J | 250 U | 0.256 | 34.9 | 2790 | 254 | | | | | | |
| 6/22/2012 | 780 | 54000 | 69000 | 89 J | 160 J | 2200 | 21 | 370 | 2600 | 730 J | 130 J | 500 U | 0.2 U | 56.5 | 166 J | 176 | | | | | | |
| 9/25/2012 | 710 | 30000 | 57000 | 85 J | 130 J | 3400 | 60 | 400 | 3300 | 390 | 78 J | 250 U | 0.2 U | 41.2 | 11.4 J | 149 | | | | | | |
| 12/13/2012 | 170 J | 3300 J | 77000 J | 500 UJ | 500 UJ | 780 J | 13 | 340 | 3500 | 120 J | 100 J | 500 UJ | 0.923 | 782 | 680 | 176 | | | | | | |
| 4/12/2013 | 1000 U | 2400 | 110000 | 1000 U | 1000 U | 2500 | 26 | 440 | 3700 | 1000 U | 1000 U | 1000 U | 0.365 | 302 | 833 | 133 | | | | | | |
| 7/18/2013 | 500 U | 950 | 120000 | 110 J | 86 J | 2700 | 29 | 760 | 1900 | 500 U | 150 J | 500 U | 5.78 | 709 | 62.3 | 140 | | | | | | |
| 10/17/2013 | 500 U | 500 U | 65000 | 500 U | 500 U | 5000 | 74 | 830 | 2700 | 500 U | 500 U | 500 U | 479 | 1150 | 5 U | 0.17 | | | | | | |
| 12/12/2013 | 500 U | 1100 | 120000 | 130 J | 84 J | 2500 | 26 | 520 | 2300 | 500 U | 120 J | 500 U | 0.792 | 546 | 13.4 | 117 | | | | | | |
| 4/14/2014 | 20 | 53 | 15000 | 22 | 17 | 880 | 14 | 80 | 790 | 10 U | 10 | 10 U | 11.5 | 135 | 1.9 J | 0.68 | 6.15 | | | | | |
| 8/22/2014 | 7.4 | 8.5 | 1700 | 3.4 | 2.5 | 130 | 9.9 | 35 | 3600 | 1 U | 1.3 | 1 U | 46.7 | 143 | 5 U | 0.094 J | 6.85 | | | | | |
| 12/11/2014 | 100 U | 730 | 100000 | 210 | 92 J | 9000 | 32 | 1600 | 9800 | 100 U | 55 J | 100 U | 0.0866 J | 176 | 413 | 167 | 7.32 | | | | | |
| 4/2/2015 | 100 U | 1500 | 56000 | 160 | 100 J | 16000 | 43 | 2700 | 9400 | 100 U | 100 U | 100 U | 0.494 | 152 | 8.4 | 52.4 | 6.39 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ- 5**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/4/2009 | 1100 J | 300000 | 110000 | 340 J | 280 J | 2000 | 55 | 740 | 130 | 2500 U | 2500 U | 2500 U | 3.31 | 639 | 718 | | | | | | | |
| 7/19/2010 | 800 J | 270000 | 87000 | 190 J | 210 J | 1100 | 89 | 1400 | 69 | 1000 U | 1000 U | 1000 U | 2.24 | 258 | 1250 | 146 | | | | | | |
| 8/30/2011 | 600 | 110000 | 99000 | 180 J | 250 J | 2300 | 80 | 800 | 360 | 500 U | 500 U | 500 U | 0.0959 J | | 460 | 217 | | | | | | |
| 9/1/2011 | | | | | | | | | | | | | | 292 | | | | | | | | |
| 3/26/2012 | 730 | 61000 | 48000 | 92 | 100 | 1600 | 18 | 140 | 1900 | 170 | 55 | 10 U | 0.2 U | 60.7 | 1250 | 161 | | | | | | |
| 6/22/2012 | 650 | 45000 | 27000 | 42 J | 62 J | 290 | 15 | 120 | 730 | 1100 J | 76 J | 250 U | 0.2 U | 26.8 | 214 J | 156 | | | | | | |
| 9/18/2012 | 360 J | 27000 | 75000 | 500 U | 230 J | 830 | 150 | 1000 | 1500 | 220 J | 500 U | 500 U | 2.52 | 124 | 23.7 | 61.3 | | | | | | |
| 12/13/2012 | 230 J | 17000 | 92000 | 500 U | 500 U | 1100 | 22 | 180 | 2500 | 500 U | 500 U | 500 U | 0.539 | 1250 | 373 | 273 | | | | | | |
| 4/12/2013 | 200 J | 27000 | 110000 | 1000 U | 1000 U | 1700 | 28 | 290 | 4400 | 1000 U | 1000 U | 1000 U | 0.528 | 566 | 500 | 211 | | | | | | |
| 7/18/2013 | 230 J | 29000 | 99000 | 1000 U | 1000 U | 1800 | 20 | 160 | 3000 | 1000 U | 1000 U | 1000 U | 0.582 | 477 | 205 | 210 | | | | | | |
| 10/17/2013 | 230 J | 29000 | 130000 | 1000 U | 1000 U | 1400 | 54 | 390 | 2400 | 1000 U | 1000 U | 1000 U | 0.728 | 465 | 211 | 234 | | | | | | |
| 12/12/2013 | 270 J | 30000 | 140000 | 160 J | 130 J | 1900 | 50 | 350 | 4000 | 500 U | 110 J | 500 U | 0.633 | 434 | 333 | 202 | | | | | | |
| 4/16/2014 | 170 | 17000 | 150000 | 100 J | 97 J | 2500 | 32 | 470 | 4200 | 100 U | 62 J | 100 U | 4.65 | 499 | 47 | 103 | 5.77 | | | | | |
| 8/19/2014 | 110 | 9400 | 150000 | 150 | 130 | 10000 | 51 | 1200 | 5600 | 100 U | 81 J | 100 U | 2.39 | 467 | 152 | 119 | 6.53 | | | | | |
| 12/11/2014 | 170 | 16000 | 120000 | 160 | 110 | 11000 | 44 | 1700 | 7100 | 100 U | 76 J | 100 U | 0.392 J | 332 | 456 | 176 | 6.91 | | | | | |
| 4/2/2015 | 110 | 9800 | 73000 | 97 J | 85 J | 12000 | 48 | 1600 | 6700 | 100 U | 100 U | 100 U | 4.78 | 479 | 60.5 | 85.8 | 6.6 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ- 7D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/5/2011 | 1400 J | 580000 | 7900 | 2500 U | 2500 U | 2500 U | 11 | 7.7 | 73 | 2500 UJ | 2500 U | 2500 U | 1.6 | 47.4 | 971 | 2.2 | 6.8 | 2.7E+02 | 8.7E+00 | 5.3E+01 | 4.6E+00 | 5.5E+00 |
| 8/30/2011 | 1500 | 270000 | 47000 | 500 U | 170 J | 140 J | 9.4 | 32 | 45 | 620 | 500 U | 500 U | 15.3 | 286 | 562 | 26.2 | 6.06 | 1.1E+01 | 4.4E+03 | 5.8E+01 | 8.0E+01 | 1.7E+01 |
| 11/2/2011 | 1600 | 240000 | 63000 | 500 U | 260 J | 500 U | 5.5 | 7.9 | 34 | 1400 | 500 U | 500 U | 0.32 | 149 | 317 | 98.6 | 6.47 | 6.0E+01 | 2.2E+04 | 2.3E+02 | 3.5E+02 | 1.6E+02 |
| 3/21/2012 | 2200 J | 380000 | 100000 | 2500 U | 2500 U | 2500 U | 12 | 16 | 110 | 530 J | 2500 U | 2500 U | 0.931 | 117 | 413 J | 40.3 | 6.33 | 1.1E+04 | 3.4E+04 | 2.9E+04 | 2.1E+03 | 1.5E+04 |
| 6/28/2012 | 2300 | 290000 | 56000 | 64 J | 200 | 150 | 13 | 20 | 170 | 870 | 53 J | 100 U | 0.2 U | 62.9 | 407 | 97.6 | 6.56 | 2.8E+02 | 5.6E+03 | 1.6E+03 | 3.4E+01 | 2.2E+02 |
| 9/19/2012 | 2400 | 250000 | 64000 | 500 U | 220 J | 250 J | 13 | 24 | 220 | 760 | 500 U | 500 U | 0.2 U | 66.8 | 85.5 J | 161 | 7.03 | 2.2E+03 | 1.1E+04 | 2.4E+03 | 2.9E+03 | 1.6E+03 |
| 11/1/2012 | 2400 | 350000 | 61000 | 110 J | 210 J | 200 J | | | | 500 | 500 U | 500 U | | 70.8 | | | | | | | | |
| 12/6/2012 | 1200 | 330000 | 72000 | 96 J | 100 J | 270 | 9.8 | 23 | 150 | 250 J | 73 J | 250 U | 45.7 | 941 | 92.3 | 1.5 | 6.27 | 1.1E+01 | 1.1E+01 | 3.0E+04 | 5.7E+04 | 1.1E+04 |
| 4/3/2013 | 1200 | 340000 | 280000 | 1900 J | 460 | 1300 | 40 | 340 | 470 J | 48 | 71 | 5 U | 72.1 | 935 | 293 | 0.17 | 6.7 | 1.4E+05 | 3.1E+05 | 2.3E+06 | 2.2E+06 | 3.6E+04 |
| 7/10/2013 | 1600 | 360000 | 380000 | 240 J | 870 | 3800 | 22 | 290 | 370 | 120 J | 500 U | 500 U | 44.3 | 703 | 327 | 0.47 | 6.64 | 4.6E+04 | 2.4E+04 | 4.8E+04 | 3.8E+04 | 4.5E+02 |
| 10/10/2013 | 1200 J | 300000 | 280000 | 5000 U | 5000 U | 5500 | 37 | 430 | 590 | 5000 U | 5000 U | 5000 U | 37.8 | 424 | 341 | 1.1 | 6.38 | 5.0E+04 | 1.4E+04 | 1.7E+05 | 1.7E+05 | 2.2E+03 |
| 12/5/2013 | 850 | 210000 | 370000 | 280 J | 900 | 2500 | 20 | 340 | 740 | 500 U | 500 U | 500 U | 25 | 251 | 161 | 0.66 | 6.26 | 8.8E+04 | 3.6E+03 | 2.7E+05 | 2.7E+05 | 1.4E+04 |
| 4/10/2014 | 460 | 110000 | 370000 | 380 | 920 | 5100 | 20 | 260 | 550 | 200 U | 200 U | 200 U | 21.1 | 191 | 110 | 0.59 | 6.19 | 8.9E+04 | 7.3E+03 | 2.9E+05 | 8.7E+02 | 1.4E+04 |
| 8/12/2014 | 420 | 160000 | 380000 | 270 | 940 | 11000 | 38 | 430 | 1000 | 200 U | 200 U | 200 U | 23.6 | 258 | 153 | 1.4 | 6.6 | 4.1E+05 | 9.6E+03 | 2.9E+06 | 1.5E+04 | 4.7E+04 |
| 12/4/2014 | 840 | 340000 | 410000 | 320 | 850 | 4500 | 25 | 350 | 1500 | 200 U | 200 J | 200 U | 15.4 | 222 | 179 | 0.92 | 6.45 | 6.1E+05 | 4.2E+03 | 1.2E+06 | 4.5E+03 | 5.5E+03 |
| 3/25/2015 | 400 | 160000 | 180000 | 180 | 430 | 3700 | 10 | 140 | 380 J | 50 U | 50 U | 50 U | 9.81 | 109 | 116 | 0.46 | 7.21 | 4.8E+05 | 7.1E+03 | 1.7E+06 | 6.2E+03 | 5.7E+04 |
| 10/21/2015 | 330 | 120000 | 380000 | 420 | 590 | 6600 | 44 | 480 | 1800 | 200 U | 200 U | 200 U | 25.9 | 148 | | | 8.11 | | | | | |
| 5/10/2016 | 220 | 110000 D | 540000 D | 410 | 670 | 11000 | 19 | 1200 D | 1800 D | 100 U | 100 U | 100 U | 25.2 | 187 | 250 | 1.1 | 7.05 | 2.6E+05 | 1.6E+04 | 9.1E+05 | 8.1E+03 | 1.1E+05 |
| 9/30/2016 | 25000 U | 170000 | 540000 | 25000 U | 25000 U | 15000 J | 33 J | 880 J | 880 J | 25000 U | 25000 U | 25000 U | 28 | 160 | | | 6.68 | | | | | |
| 4/20/2017 | 5000 U | 70000 | 250000 | 5000 U | 5000 U | 15000 | 15 | 1000 | 780 | 5000 U | 5000 U | 5000 U | 11 | 100 | 150 | 3.1 | 7 | 6.3E+04 | 6.9E+03 | 8.9E+05 | 3.7E+04 | 9.9E+04 |
| 10/9/2017 | 2500 U | 120000 | 180000 | 2500 U | 2500 U | 6200 | 12 | 1000 | 980 | 2500 U | 2500 U | 2500 U | 7.1 | 54 | | | 6.81 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ- 8D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27/2011 | 63 | 2100 | 8200 | 14 J | 73 | 210 J | 3 J | 11 | 49 | 1900 | 100 | 25 U | 6.7 | 4.7 | 843 | 0.33 | 6.91 | | | | | |
| 8/30/2011 | 11 J | 990 | 9100 | 21 J | 25 | 82 | 5.6 | 3.5 J | 35 | 1200 | 58 | 25 U | 0.702 | 283 | 422 | 62.6 | 6.11 | | | | | |
| 11/4/2011 | 32 | 340 | 4100 | 9.2 J | 22 J | 79 | 2.4 J | 2.4 J | 63 | 2300 | 82 | 25 U | 1.16 | 301 | 321 | 45 | 6.38 | | | | | |
| 3/23/2012 | 10 J | 220 | 1700 | 4.2 J | 21 J | 65 | 5 U | 5 U | 180 | 2400 | 110 | 25 U | 0.109 J | 996 | 437 | 93.8 | 6.24 | | | | | |
| 6/25/2012 | 25 U | 49 | 5500 | 6.8 J | 12 J | 250 | 8 | 6.1 | 15000 | 42 | 41 | 25 U | 20.2 | 190 | 18.7 | 0.13 J | 7.62 | | | | | |
| 9/19/2012 | 8.6 | 1400 | 2400 | 7.7 | 27 | 350 | 3.6 J | 19 | 2700 | 760 | 99 | 5 U | 0.2 U | 46.5 | 121 J | 106 | 6.97 | | | | | |
| 12/7/2012 | 50 U | 27 J | 9500 | 27 J | 19 J | 180 | 5.6 | 12 | 7300 | 190 | 28 J | 50 UJ | 4.83 | 299 | 1.6 J | 12.1 | 6.21 | | | | | |
| 4/10/2013 | 25 U | 6.3 J | 9800 | 12 J | 15 J | 2300 | 6.7 | 63 | 16000 | 110 | 200 | 25 U | 3.36 | 463 | 7.3 J | 55.3 | 7.47 | | | | | |
| 7/12/2013 | 50 U | 50 U | 3500 | 16 J | 50 U | 9400 | 23 | 450 | 20000 | 40 J | 320 | 50 U | 132 | 509 | 5 U | 0.069 J | 7.12 | | | | | |
| 10/11/2013 | 100 U | 45 J | 16000 | 100 U | 100 U | 2900 | 16 | 2300 | 7500 | 340 | 510 | 100 U | 5.66 | 544 | 6.8 | 90.9 | 6.26 | | | | | |
| 12/9/2013 | 25 U | 14 J | 7600 | 21 J | 8.3 J | 2300 | 24 | 5100 | 19000 | 180 | 610 | 25 U | 31.8 | 545 | 3.1 J | 2.8 | 6.1 | | | | | |
| 4/16/2014 | 9.8 | 44 | 22000 | 36 | 42 | 2800 | 16 | 2100 | 12000 | 640 | 730 | 6.9 | 4.6 | 405 | 6.8 | 65.3 | 6.95 | | | | | |
| 8/21/2014 | 0.94 J | 3.8 | 740 | 31 | 4.8 | 610 | 59 | 6600 | 24000 | 110 | 690 | 11 | 10 | 443 | 2.4 J | 21.5 | 7.39 | | | | | |
| 12/11/2014 | 1 U | 1.6 | 33 | 12 | 0.62 J | 140 | 33 | 3500 | 15000 | 4.7 | 340 | 3.2 | 21.2 | 321 | 5 U | 1.2 | 7.08 | | | | | |
| 4/2/2015 | 50 U | 30 J | 22000 | 37 J | 26 J | 2400 | 28 | 1700 | 7100 | 680 | 910 | 50 U | 1.07 | 426 | 57.4 | 105 | 6.78 | | | | | |
| 10/21/2015 | 5 U | 7.4 | 3600 | 18 | 5.7 | 1200 | 21 | 2600 | 15000 | 130 | 490 | 5 U | 3.05 | 437 | | | | | | | | |
| 5/16/2016 | 1.0 U | 2.4 | 170 | 13 | 0.95 J | 210 | 20 | 1400 D | 14000 D | 14 | 320 D | 2.8 | 26.1 | 465 | 5.0 U | 0.095 J | 7.41 | | | | | |
| 4/14/2017 | 250 U | 250 U | 10000 | 250 U | 250 U | 2500 | 12 | 820 | 3600 | 610 | 990 | 250 U | 2 | 370 | 18 | 29 | 6.72 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ- 9D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/5/2011 | 400 | 23000 | 11000 | 100 U | 68 J | 200 | 2.5 J | 11 | 55 | 810 J | 69 J | 100 U | 0.706 | 3.7 | 969 | 1.3 | 6.55 | 1.5E+03 | 2.7E+01 | 1.6E+02 | 4.5E+00 | 2.5E+01 |
| 8/30/2011 | 30 J | 910 | 14000 | 30 J | 52 | 36 J | 2 J | 2.2 J | 16 | 3800 | 56 | 50 U | 1.66 | 251 | 354 | 66 | 5.96 | 0.1 J | 2.4E+02 | 2.3E+01 | 4.6E+00 | 1.5E+00 |
| 11/3/2011 | 8.6 J | 130 | 8700 | 29 J | 25 J | 100 | 15 | 7 | 38 | 360 | 150 | 50 U | 90.4 | 353 | 2.3 J | 5.8 | 6.05 | 3.6E+01 | 2.6E+03 | 6.0E+01 | 1.2E+02 | 5.0E+02 |
| 3/27/2012 | 10 U | 14 | 1600 | 4.2 J | 4 J | 17 | 1.3 J | 1.2 J | 75 | 22 | 8 J | 10 U | 13.3 | 31.3 | 5 U | 0.16 U | 7.45 | 7.2E+02 | 6.9E+02 | 4.5E+02 | 1.1E+02 | 2.7E+01 |
| 6/21/2012 | 10 U | 25 | 550 | 10 U | 1.7 J | 21 | 5 U | 5 U | 97 | 73 J | 3.9 J | 10 U | 0.539 | 26.7 | 20 J | 3.9 | 7.67 | 1.8E+02 | 1.2E+02 | 4.8E+02 | 4.1E+00 | 7.8E+01 |
| 9/19/2012 | 0.99 J | 32 | 250 | 5 U | 0.98 J | 56 | 5 U | 5 U | 370 | 24 | 1.8 J | 5 U | 0.195 J | 10.9 | 3 J | 2.4 | 8.03 | 3.9E+03 | 2.6E+03 | 3.5E+03 | 2.3E+01 | 1.1E+03 |
| 11/1/2012 | | | | | | | | | | | | | | 51.5 | | | | | | | | |
| 12/5/2012 | 270 | 29000 | 90000 | 51 J | 43 J | 340 | 13 | 27 | 140 | 190 | 80 J | 100 U | 23.6 | 1320 | 21.9 | 21.5 | 5.91 | 2.8E+02 | 1.1E+02 | 2.7E+04 | 5.3E+04 | 1.2E+04 |
| 4/3/2013 | 110 | 12000 | 81000 | 58 | 69 | 720 | 18 | 80 | 6000 J | 170 | 100 | 50 U | 67.5 | 709 | 15.9 | 13.5 | 6.27 | 2.8E+03 | 6.9E+03 | 1.7E+04 | 1.1E+04 | 1.3E+01 |
| 7/11/2013 | 500 U | 3700 | 120000 | 110 J | 140 J | 13000 | 27 | 680 | 3600 | 150 J | 210 J | 500 U | 67.1 | 679 | 31.9 | 5.1 | 6.34 | 2.9E+05 | 2.6E+03 | 4.3E+05 | 2.0E+05 | 3.1E+03 |
| 10/10/2013 | 2500 U | 20000 | 250000 | 2500 U | 2500 U | 11000 | 23 | 1100 | 1600 | 2500 U | 2500 U | 2500 U | 15.3 | 784 | 44.2 | 27.5 | 6.03 | 1.9E+05 | 9.7E+03 | 1.0E+06 | 1.7E+06 | 1.8E+04 |
| 12/5/2013 | 80 J | 12000 | 110000 | 73 J | 190 J | 5900 | 12 | 730 | 3500 | 150 J | 140 J | 250 U | 12.3 | 321 | 20.8 | 11.3 | 6.29 | 5.4E+05 | 1.4E+04 | 9.7E+05 | 3.6E+05 | 4.0E+04 |
| 4/10/2014 | 1 U | 8.6 | 1800 | 11 | 4.1 | 890 | 7 | 1500 | 5000 | 5.3 | 21 | 1 U | 34.7 | 89.5 | 5 U | 0.18 | 6.84 | 5.0E+05 | 3.1E+03 | 3.4E+06 | 1.1E+04 | 3.6E+05 |
| 8/13/2014 | 74 J | 11000 | 93000 | 110 | 170 | 14000 | 32 | 5400 | 11000 | 100 J | 120 | 100 U | 9.08 | 279 | 8.4 | 10.2 | 6.91 | 1.6E+05 | 1.9E+03 | 1.8E+06 | 9.2E+03 | 9.3E+04 |
| 12/4/2014 | 42 J | 6200 | 60000 | 86 | 100 | 7800 | 16 | 4300 | 11000 | 60 | 100 | 50 U | 7.25 | 216 | 7.2 | 10.4 | 6.37 | 3.8E+05 | 2.6E+03 | 2.3E+06 | 7.3E+03 | 2.6E+04 |
| 3/25/2015 | 10 J | 2400 | 23000 | 41 | 47 | 5500 | 15 | 6300 | 8700 | 31 | 67 | 20 U | 28.2 | 216 | 33.5 | 4.2 | 6.6 | 3.4E+05 | 2.2E+03 | 2.9E+06 | 1.3E+04 | 3.1E+05 |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ-10D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/29/2011 | 140 | 1800 | 2900 | 50 U | 130 | 110 | 5 U | 3.4 J | 23 | 12000 | 100 | 50 U | 0.399 | 4.4 | 706 J | 0.4 | 7.69 | 2.9E+02 | 2.3E+01 | 3.9E+01 | 4.6E+00 | 3.6E+00 |
| 8/29/2011 | 18 J | 120 | 2600 | 8.7 J | 41 J | 73 | 5 U | 2.4 J | 13 J | 5900 | 67 | 50 U | 0.688 | 55.7 | 569 | 20.3 | 6.81 | 2.1E+00 | 4.1E+02 | 8.2E+00 | 1.5E+00 | 6.0E-01 |
| 11/1/2011 | 5.2 | 59 | 1200 | 6 | 15 | 51 | 3.9 J | 2.4 J | 82 | 1100 | 60 | 5 U | 2.64 | 61.6 | 93 | 30.2 | 7.08 | 2.1E+01 | 4.9E+03 | 1.8E+01 | 1.4E+00 | 6.9E+00 |
| 3/27/2012 | 3.1 J | 18 | 450 | 2.1 J | 9.7 | 110 | 1.2 J | 2.9 J | 47 | 620 | 30 | 5 U | 0.0172 J | 15.1 | 228 | 18.1 | 6.97 | 8.4E+03 | 7.8E+03 | 2.1E+04 | 5.3E+04 | 1.2E+03 |
| 6/21/2012 | 5.8 | 23 | 710 | 4.1 J | 16 | 210 | 1.1 J | 23 | 85 | 1400 J | 59 | 5 U | 1.36 | 17.7 | 615 J | 23.9 | 7.54 | 1.3E+03 | 2.5E+03 | 1.1E+04 | 4.9E+03 | 9.7E+03 |
| 9/20/2012 | 4.9 J | 14 | 560 | 3.2 J | 17 | 190 | 1.8 J | 40 | 960 | 1000 | 55 | 5 U | 0.0727 J | 17.4 | 425 | 19.7 | 8.03 | 1.4E+03 | 1.2E+03 | 3.6E+04 | 1.2E+04 | 4.2E+04 |
| 11/1/2012 | | | | | | | | | | | | | | 17.3 | | | | | | | | |
| 12/5/2012 | 11 J | 220 | 8000 | 16 J | 19 J | 220 | 2 J | 6.3 | 170 | 590 | 86 | 25 U | 0.0585 J | 152 | 53.6 | 162 | 6.51 | 7.9E+01 | 3.6E+01 | 2.9E+02 | 2.6E+02 | 9.1E+01 |
| 4/4/2013 | 16 | 47 | 9900 | 19 | 33 | 1200 | 19 | 430 | 3500 | 400 | 280 | 10 U | 28.2 | 629 | 4.1 J | 51.2 | 6.03 | 2.4E+05 | 1.4E+04 | 3.7E+06 | 5.4E+06 | 3.4E+04 |
| 7/15/2013 | 50 U | 18 J | 4500 | 11 J | 18 J | 1100 | 24 | 890 | 6100 | 760 | 400 | 50 U | 36.3 | 553 | 71 | 70.5 | 6.4 | 3.8E+04 | 2.4E+04 | 6.5E+05 | 2.6E+05 | 1.4E+04 |
| 10/16/2013 | 17 J | 13 J | 5200 | 16 J | 150 | 770 | 15 | 470 | 9100 | 9900 | 1700 | 25 U | 2.45 | 218 | 3.2 J | 77.6 | 6.22 | 1.3E+04 | 3.9E+03 | 4.7E+05 | 1.8E+05 | 8.8E+04 |
| 12/5/2013 | 25 J | 18 J | 8000 | 22 J | 170 | 840 | 12 | 190 | 4100 | 9100 | 1500 | 50 U | 1.93 | 280 | 7.8 | 91.8 | 6.55 | 2.2E+04 | 7.7E+03 | 2.1E+05 | 1.2E+05 | 3.1E+04 |
| 4/15/2014 | 0.85 J | 1.3 | 8.5 | 1 U | 1 U | 1.8 | 12 | 2 J | 720 | 2.8 | 0.8 J | 1 U | 0.383 J | 24.2 | 31.3 | 0.25 | 7.76 | 6.4E+02 | 2.6E+02 | 1.2E+03 | 5.2E+01 | 8.1E+02 |
| 8/12/2014 | 18 | 12 | 7600 | 32 | 130 | 2800 | 11 | 190 | 5600 | 2500 | 600 | 10 U | 0.0599 J | 74.3 | 44.4 | 138 | 7.12 | 4.2E+04 | 2.6E+03 | 2.8E+05 | 1.6E+03 | 5.4E+03 |
| 12/4/2014 | 3.8 J | 5 U | 5900 | 27 | 80 | 2400 | 12 | 170 | 8700 | 1500 | 550 | 5 U | 0.0514 J | 84.2 | 5.4 | 131 | 6.87 | 1.5E+05 | 4.4E+03 | 3.3E+05 | 2.1E+03 | 8.1E+02 |
| 3/25/2015 | 2.6 | 3.9 | 2100 | 15 | 34 | 1300 | 13 | 97 | 5000 | 540 | 250 | 0.98 J | 0.0409 J | 40.9 | 46.3 | 117 | 7.39 | 3.9E+04 | 5.4E+03 | 1.3E+05 | 9.8E+02 | 5.0E+03 |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ-11D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/4/2012 | 33 J | 2500 | 8200 | 19 J | 35 J | 270 | 5 U | 16 | 53 | 970 | 82 | 50 U | 0.295 | 3.8 | 475 J | 15.3 | | | | | | |
| 6/21/2012 | 27 | 3500 | 14000 | 29 | 51 | 390 | 1.8 J | 22 | 98 | 980 J | 98 | 25 U | 0.149 J | 4.1 | 1070 J | 17.1 | 6.87 | 1.2E+04 | 2.4E+02 | 2.1E+04 | 6.0E+02 | 5.2E+03 |
| 9/25/2012 | 8.6 J | 500 | 14000 | 33 J | 68 | 1300 | 11 | 120 | 370 | 1000 | 130 | 50 U | 0.161 J | 3.5 | 812 J | 23.9 | 6.73 | | | | | |
| 11/1/2012 | | | | | | | | | | | | | | 7.9 | | | | | | | | |
| 12/12/2012 | 590 | 200000 | 83000 | 250 J | 140 J | 2700 | 83 | 460 | 2700 | 170 J | 500 U | 500 UJ | 4.67 | 652 | 337 | 49.1 | 6.18 | | | | | |
| 4/5/2013 | 360 | 72000 | 170000 | 170 | 290 | 1700 | 62 | 420 | 970 J | 170 | 78 | 50 U | 0.457 | 270 | 325 | 206 | 6.68 | | | | | |
| 7/12/2013 | 310 J | 40000 | 180000 | 180 J | 320 J | 3500 | 70 | 440 | 2500 | 1000 U | 1000 U | 1000 U | 0.0838 J | 265 | 334 | 183 | 6.47 | | | | | |
| 10/8/2013 | 500 U | 5800 | 76000 | 100 J | 150 J | 2300 | 15 | 99 | 1800 | 500 U | 500 U | 500 U | 0.186 J | 171 | 178 | 97 | 6.28 | | | | | |
| 12/10/2013 | 520 | 160000 | 110000 | 110 J | 280 J | 2800 | 16 | 170 | 2300 | 500 UJ | 500 U | 500 U | 3.11 | 202 | 84.3 | 45.2 | 6.44 | | | | | |
| 4/11/2014 | 43 J+ | 7100 | 29000 | 58 | 75 | 2100 | 5.7 | 130 | 1500 | 11 | 19 | 10 U | 0.156 J | 66.8 | 23.1 J+ | 40.4 | 7.14 | | | | | |
| 8/13/2014 | 320 | 140000 | 230000 | 150 J | 500 | 6800 | 34 | 550 | 5600 | 200 U | 200 U | 200 U | 0.562 | 202 | 164 | 78.5 | 6.28 | | | | | |
| 12/12/2014 | 100 | 36000 | 95000 | 87 J | 200 | 4700 | 53 | 700 | 7700 | 100 U | 100 U | 100 U | 0.32 J | 107 | 353 | 83.9 | 7.49 | | | | | |
| 4/1/2015 | 5 U | 81 | 3600 | 10 | 8.3 | 980 | 7.4 | 150 | 3100 | 5 U | 6.4 | 5 U | 0.386 J | 5.3 | 22.7 | 23.7 | 6.19 | | | | | |
| 10/21/2015 | 10 U | 660 | 5700 | 17 | 13 | 1900 | 73 | 460 | 13000 J | 10 U | 6.7 J | 10 U | 0.2 J | 70.6 | | | 7.6 | | | | | |
| 5/16/2016 | 200 U | 27000 | 120000 D | 140 J | 260 | 4500 | 82 | 980 D | 16000 D | 200 U | 200 U | 200 U | 0.167 J | 83.2 | 266 | 56.7 | 8.17 | | | | | |
| 9/29/2016 | 5000 U | 14000 | 57000 | 5000 U | 5000 U | 2500 J | 73 J | 1200 J | 10000 J | 5000 U | 5000 U | 5000 UJ | 0.35 | 82 | | | 6.93 | | | | | |
| 4/18/2017 | 1000 U | 1200 | 29000 | 1000 U | 1000 U | 1900 | 43 | 650 | 5800 | 1000 U | 1000 U | 1000 U | 0.52 | 35 | 530 | 25 | 7.38 | | | | | |
| 10/9/2017 | 500 U | 1400 | 20000 | 500 U | 500 U | 2700 | 79 | 780 | 10000 D | 500 U | 500 U | 500 U | 1 | 29 | | | 6.79 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ-12D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/4/2012 | 43 J | 3900 | 63000 | 57 J | 100 J | 1100 | 23 | 280 | 2200 | 110 J | 250 U | 250 U | 0.0427 J | 17.4 | 251 J | 48.7 | 6.25 | | | | | |
| 6/28/2012 | 200 | 19000 | 17000 | 34 J | 56 J | 510 | 49 | 210 | 4100 | 540 | 31 J | 100 U | 0.0506 J | 17.5 | 267 | 128 | 7.38 | | | | | |
| 9/26/2012 | 17 | 820 | 760 | 10 U | 3.1 J | 38 | 5 U | 1.5 J | 23 | 10 U | 10 U | 10 U | 0.142 J | 8.6 | 24.7 | 29.2 | 9.06 | | | | | |
| 11/1/2012 | | | | | | | | | | | | | | 4.8 | | | | | | | | |
| 12/13/2012 | 220 J | 14000 | 120000 | 1000 U | 1000 U | 710 J | 15 | 55 | 390 | 1000 UJ | 1000 UJ | 1000 U | 8.7 | 1420 | 86.5 | 76.8 | 5.89 | | | | | |
| 4/5/2013 | 130 | 10000 | 94000 | 110 | 80 | 2100 | 92 | 990 | 5900 J | 120 | 70 | 50 U | 18.2 | 659 | 36.1 | 31.3 | 6.34 | | | | | |
| 7/15/2013 | 320 J | 31000 | 130000 | 1000 U | 1000 U | 2800 | 63 | 1200 | 4400 | 1000 U | 1000 U | 1000 U | 17.6 | 658 | 92.3 | 9.7 | 5.84 | | | | | |
| 10/11/2013 | 330 J | 34000 | 210000 | 190 J | 310 J | 9200 | 85 | 2200 | 5100 | 1000 U | 1000 U | 1000 U | 43.3 | 668 | 176 | 80.8 | 6.06 | | | | | |
| 12/9/2013 | 380 J | 42000 | 100000 | 110 J | 170 J | 9200 | 30 | 1800 | 4200 | 500 U | 500 U | 500 U | 12.2 | 308 | 65.2 | 22.8 | 6.47 | | | | | |
| 4/16/2014 | 53 | 3900 | 21000 | 53 | 42 J | 2000 | 49 | 690 | 5100 | 50 U | 50 U | 50 U | 0.948 | 56.8 | 9.9 | 9.5 | | | | | | |
| 8/14/2014 | 2.3 | 6 | 110 | 0.85 J | 1 U | 50 | 4 J | 19 | 2000 | 1 U | 1 U | 1 U | 11.7 | 58 | 5 U | 0.24 | 7.05 | | | | | |
| 12/10/2014 | 10 U | 93 | 5800 | 20 | 7.8 J | 970 | 17 | 990 | 10000 | 10 U | 10 U | 10 U | 3.13 | 103 | 13.3 | | 6.58 | | | | | |
| 12/12/2014 | | | | | | | | | | | | | | | | 82 | 7.04 | | | | | |
| 4/3/2015 | 27 J | 2900 | 22000 | 38 J | 51 | 2500 | 11 | 1200 | 4300 | 50 U | 50 U | 50 U | 1.07 | 50.8 | 8.4 | 12.6 | 7 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: INJ-13D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/4/2012 | 340 J | 47000 | 44000 | 40 J | 92 J | 260 | 1.6 J | 21 | 57 | 710 | 79 J | 250 U | 0.0398 J | 15.6 | 820 J | 25 | | | | | | |
| 6/28/2012 | 810 | 140000 | 26000 | 500 U | 140 J | 320 J | 15 | 91 | 260 | 810 | 500 U | 500 U | 0.2 U | 30 | 566 | 108 | 6.8 | | | | | |
| 9/24/2012 | 990 | 100000 | 21000 | 500 U | 500 U | 640 | 13 | 63 | 310 | 680 | 500 U | 500 U | 0.2 U | 13.9 | 703 | 72 | 6.79 | | | | | |
| 11/1/2012 | | | | | | | | | | | | | | 7.7 | | | | | | | | |
| 12/13/2012 | 1000 U | 9800 | 130000 | 320 J | 1000 U | 1600 | 34 J | 130 J | 1200 | 1000 UJ | 1000 UJ | 1000 U | 4.78 | 1420 | 57.2 | 64.4 | 6.02 | | | | | |
| 4/5/2013 | 120 | 15000 | 110000 | 130 | 100 | 1800 | 100 | 680 | 4500 J | 110 | 79 | 50 U | 1.97 | 767 | 80.4 | 65 | 6.47 | | | | | |
| 7/15/2013 | 290 J | 33000 | 120000 | 140 J | 130 J | 2300 | 69 | 1400 | 5100 | 500 U | 500 U | 500 U | 2.13 | 608 | 135 | 79.7 | 6.03 | | | | | |
| 10/8/2013 | 1000 U | 8300 | 86000 | 1000 U | 1000 U | 9400 | 52 | 5200 | 8500 | 1000 U | 1000 U | 1000 U | 2.2 | 530 | 133 | 60.7 | 6.07 | | | | | |
| 12/10/2013 | 100 | 17000 | 79000 | 90 J | 100 | 9600 | 44 | 1500 | 3800 | 47 J | 60 J | 100 U | 3.26 | 292 | 60.9 | 20.7 | 6.41 | | | | | |
| 4/10/2014 | 100 U | 4300 | 65000 | 100 | 100 | 4700 | 77 | 1400 | 8000 | 100 U | 100 U | 100 U | 0.107 J | 142 | 37.2 | 51.6 | 7.04 | | | | | |
| 8/14/2014 | 100 U | 1000 | 51000 | 100 | 95 J | 6500 | 70 | 2700 | 15000 | 100 U | 100 U | 100 U | 0.0627 J | 164 | 45.9 | 62.7 | 6.85 | | | | | |
| 12/9/2014 | 2 U | 38 | 2800 | 50 | 6.6 | 830 | 61 | 1800 | 15000 | 2 U | 2 U | 2 U | 0.595 | 67.8 | 59.3 | 40.7 | 6.62 | | | | | |
| 4/3/2015 | 11 J | 2000 | 13000 | 23 | 27 | 1100 | 11 | 560 | 3800 | 20 UJ | 20 U | 20 U | 0.173 J | 24.1 | 18.8 | 8.3 | 7.75 | | | | | |
| 10/20/2015 | 10 U | 90 | 10000 | 54 | 12 | 2500 | 140 | 2100 | 7200 | 10 U | 8.1 J | 10 U | 17.6 | 191 | | | 7.75 | | | | | |
| 5/16/2016 | 10 U | 33 | 4300 D | 38 | 15 | 2500 | 380 | 2300 D | 17000 D | 10 U | 10 U | 10 U | 9.13 | 101 | 10.5 | 3.3 | 7.82 | | | | | |
| 9/29/2016 | 500 UJ | 1300 | 12000 | 500 U | 500 U | 3100 | 270 | 1300 | 9700 | 500 UJ | 500 U | 500 U | 4 | 82 | | | 6.73 | | | | | |
| 4/18/2017 | 200 U | 200 U | 4300 | 200 U | 200 U | 2400 | 170 | 2000 | 6600 | 200 U | 200 U | 200 U | 2.8 | 93 | 92 | 6.7 | 7.14 | | | | | |
| 10/12/2017 | 500 U | 2100 | 15000 | 500 U | 500 U | 1900 | 180 | 1800 | 14000 D | 500 U | 500 U | 500 U | 1 | 65 | | | 6.94 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 1D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/2/2001 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 12/6/2001 | | 5 U | | | | | | | | 5 U | 5 U | | | | | | | | | | | |
| 9/30/2002 | | 180 | | | | | | | | 9.3 | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 50 D | | | | | | | | 6.5 | 1.0 U | | | | | | | | | | | |
| 9/19/2003 | | 12 | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 1S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/2/2001 | | 32 | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 12/6/2001 | | 28 | | | | | | | | 5 U | 5 U | | | | | | | | | | | |
| 9/26/2002 | | 6.9 | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 10 | | | | | | | | 1.0 U | 1.0 U | | | | | | | | | | | |
| 9/19/2003 | | 7.8 | | | | 18 | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/28/2003 | | 17 | | | | 19 | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 5/17/2004 | | 24 | | | | 25 | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/21/2004 | | 8 | | | | 7 | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/29/2005 | | 13 | 104 | 5.1 | 1.2 | 18.4 | 0.29 | 0.52 | 13.3 | 1.0 U | 1.0 U | 1.0 U | | 2.3 | 2230 | | | | | | | |
| 9/18/2006 | 1 U | 4 | 84 | 5 | 1 U | 12 | 12 U | 17 U | 12 | 1 U | 1 U | 2 U | | 2.1 | 2580 | | | | | | | |
| 5/27/2008 | 5 U | 19 | 150 | 6.9 | 2.2 J | 19 | 1.1 J | 1.7 J | 55 | 5 U | 5 U | | | 2.2 | 2140 J | | | | | | | |
| 5/28/2009 | 5.0 U | 7.1 | 150 | 6 | 1.6 J | 16 | 1.0 U | 1.0 U | 29 | 5.0 U | 5.0 U | 5.0 U | 1.18 | 3 | 2130 | 1.0 U | | | | | | |
| 7/13/2010 | 5 U | 2.7 J | 100 J | 4.7 J | 1.2 J | 10 | 5 U | 5 U | 20 | 5 U | 5 U | 5 U | 2.44 | 2.9 | 2350 J | 0.16 J | | | | | | |
| 6/21/2011 | 5 U | 2 J | 88 | 3.6 J | 5 U | 5.3 | 5 U | 5 U | 15 J | 5 U | 5 U | 5 U | 1.8 | 3 | 2830 | 0.076 J | 7 | | | | | |
| 8/26/2011 | 5 U | 1.1 J | 96 | 3.9 J | 5 U | 7.5 | 5 U | 5 U | 14 J | 5 U | 5 U | 5 U | 1.56 | 3.2 | 2750 | 0.093 J | 7.03 | | | | | |
| 11/7/2011 | 5 U | 3.5 J | 120 | 5.1 | 1.2 J | 14 | 5 U | 5 U | 25 | 5 U | 5 U | 5 U | 1.77 | 1.3 | 2110 | 0.25 | | | | | | |
| 3/20/2012 | 5 U | 4.4 J | 120 | 4.5 J | 1.1 J | 5.2 | 5 U | 5 U | 14 J | 5 U | 5 U | 5 U | 0.421 | 2.8 | 2420 J | 0.24 | 6.12 | | | | | |
| 6/19/2012 | 5 U | 14 | 170 | 7.4 | 2 J | 15 | 5 U | 5 U | 32 | 5 U | 5 U | 5 U | 1.14 | 2.6 | 2260 | 0.16 U | | | | | | |
| 9/18/2012 | 5 U | 1.5 J | 110 | 4.4 J | 0.84 J | 7.8 | 5 U | 1.2 J | 29 | 5 U | 5 U | 5 U | 1.02 | 2.7 | 2120 | 0.16 U | 7.21 | | | | | |
| 12/12/2012 | 5 U | 17 | 170 | 7.2 | 2.1 J | 15 | 5 U | 1.2 J | 37 | 5 U | 5 U | 5 UJ | 2.55 | 1.1 | 2130 | 0.16 U | 6.7 | | | | | |
| 4/2/2013 | 5 U | 8.4 | 140 | 5.6 | 1.3 J | 7.7 | 5 U | 5 U | 14 | 5 U | 5 U | 5 U | 0.427 | 1.6 | 2030 | 0.16 U | 7.58 | | | | | |
| 7/16/2013 | 5 U | 14 | 170 | 7.1 | 1.7 J | 12 | 5 U | 5 U | 25 | 5 UJ | 5 U | 5 U | 0.703 | 1.3 | 2000 | 0.16 U | 7.4 | | | | | |
| 10/16/2013 | 5 U | 41 | 200 | 8.9 | 2.4 J | 13 | 5 U | 5 U | 15 | 5 U | 5 U | 5 U | 0.4 U | 1.2 | 1940 | 0.16 U | | | | | | |
| 12/3/2013 | 5 U | 7.8 | 170 | 7.4 | 1.6 J | 8.9 | 5 U | 5 U | 22 | 5 U | 5 U | 5 U | 0.961 | 2 J | 1840 | 0.16 U | | | | | | |
| 4/14/2014 | 1 U | 4.2 | 150 | 5.9 | 1.3 | 6.8 | 5 U | 5 U | 16 | 1 U | 1 U | 1 U | 0.984 | 3 | 1920 | 0.16 U | 6.67 | | | | | |
| 8/15/2014 | 1 U | 1.8 | 24 | 1.3 | 1 U | 1.4 | 5 U | 5 U | 9.9 | 1 U | 1 U | 1 U | 1.68 | 5.7 | 533 | 0.23 | 7.87 | | | | | |
| 12/2/2014 | 1 U | 2.7 | 28 | 1.5 | 1 U | 1.7 | 5 U | 5 U | 19 | 1 U | 1 U | 1 U | 0.46 | 2.3 | 290 | 0.4 | 7.41 | | | | | |
| 3/26/2015 | 1 U | 2.4 | 17 | 0.89 J | 1 U | 1 J | 5 U | 5 U | 5 UJ | 1 U | 1 U | 1 U | 0.24 J | 1.6 | 254 | 0.16 U | 7.14 | | | | | |
| 10/13/2015 | 1 U | 1 U | 14 | 0.82 J | 1 U | 1.4 | 5 U | 5 U | 260 | 1 U | 1 U | 1 U | 0.238 J | 2.7 | | | | | | | | |
| 5/12/2016 | 1.0 U | 1.7 | 58 | 2.6 | 0.55 J | 10 | 5.0 U | 5.0 U | 240 | 1.0 U | 1.0 U | 1.0 U | 1.01 | 2.2 | 1460 | 0.39 | 7.26 | | | | | |
| 4/12/2017 | 1.3 U | 0.78 J | 37 | 1.6 | 1.3 U | 10 | 0.2 J | 0.5 | 23 | 1.3 U | 1.3 U | 1.3 U | 1.4 | 2.5 | 1600 | 1.0 U | 7.49 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 2D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/2/2001 | | 440000 BD | | | | | | | | 32 | 33 | | | | | | | | | | | |
| 12/6/2001 | | 950000 | | | | | | | | 50000 U | 50000 U | | | | | | | | | | | |
| 12/12/2001 | | 4.4E+08 | | | | | | | | 24000000 U | 24000000 U | | | | | | | | | | | |
| 10/2/2002 | | 410000 | | | | | | | | 12000 U | 12000 U | | | | | | | | | | | |
| 11/7/2002 | | 400000 | | | | | | | | 12000 U | 12000 U | | | | | | | | | | | |
| 9/23/2003 | | 480000 D | | | | 12000 U | | | | 2900 J | 12000 U | | | | | | | | | | | |
| 10/30/2003 | | 640000 | | | | 25000 U | | | | 25000 U | 25000 U | | | | | | | | | | | |
| 6/23/2004 | | 110000 B | | | | 1400 J | | | | 2500 J | 4000 U | | | | | | | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 2DP**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/2/2002 | 11600000 | 24000000 | 611000 | 2500 U | 2500 U | 2500 U | | | | 2500 U | 2500 U | 5000 U | | | | | | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 2S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/2/2001 | | 140000 BD | | | | | | | | 5.0 U | 85 | | | | | | | | | | | |
| 12/6/2001 | | 200000 | | | | | | | | 25000 U | 25000 U | | | | | | | | | | | |
| 10/3/2002 | | 25000 U | | | | | | | | 25000 U | 25000 U | | | | | | | | | | | |
| 11/7/2002 | | 5600 J | | | | | | | | 25000 U | 25000 U | | | | | | | | | | | |
| 9/19/2003 | | 25000 U | | | | 30000 | | | | 25000 U | 25000 U | | | | | | | | | | | |
| 10/30/2003 | | 25000 U | | | | 32000 | | | | 25000 U | 25000 U | | | | | | | | | | | |
| 5/19/2004 | | 25000 U | | | | 35000 | | | | 25000 U | 25000 U | | | | | | | | | | | |
| 6/23/2004 | | 7300 J | | | | 26000 | | | | 25000 U | 25000 U | | | | | | | | | | | |
| 8/31/2005 | | 500 U | 657000 | 2770 | 1680 | 94000 | 14.8 | 450 | 178 | 500 U | 500 U | 500 U | | 47.1 | 867 | | | | | | | |
| 9/18/2006 | 1000 U | 2170 | 343000 | 3110 | 1080 | 116000 | 28 | 351 | 147 | 1000 U | 1000 U | 2000 U | | 11.7 | 1330 | | | | | | | |
| 5/29/2008 | 400 U | 2700 | 400000 | 2300 J | 1100 J | 60000 | 44 | 650 | 290 | 400 U | 500 U | | | 7.6 | 1130 J | | | | | | | |
| 6/2/2009 | 5000 U | 31000 | 230000 | 1700 J | 660 J | 28000 | 40 | 390 | 210 | 5000 U | 5000 U | 5000 U | 4.39 | 7.5 | 1120 | 0.98 U | | | | | | |
| 7/13/2010 | 2500 U | 2500 | 250000 | 1700 J | 680 J | 32000 | 30 | 320 | 120 | 2500 U | 2500 U | 2500 U | 4.23 | 7.9 | 1270 J | 0.16 U | | | | | | |
| 6/29/2011 | 1300 U | 6400 | 230000 | 1400 | 610 J | 26000 | 12 | 76 | 56 | 1300 U | 1300 U | 1300 U | 3.28 | 9.6 | 957 J | 0.16 U | 6.7 | 6.3E+03 | 3 U | 1.1E+04 | 5.7E+01 | 1.1E+01 |
| 8/25/2011 | 500 U | 500 U | 220000 | 1400 | 490 J | 24000 | 12 | 120 | 55 | 500 U | 500 U | 500 U | 4.23 | 7 | 1510 J | 0.16 U | 6.52 | 1.0E+05 | 7.0E+01 | 9.9E+04 | 8.3E+01 | 3.6E+02 |
| 11/2/2011 | 500 U | 150 J | 120000 | 1100 | 340 J | 18000 | 15 J | 92 J | 62 J | 500 U | 500 U | 500 U | 1.32 | 5.4 | 868 | 0.16 U | 6.95 | 2.1E+05 | 1.2E+02 | 3.4E+05 | 3.7E+02 | 1.7E+02 |
| 3/21/2012 | 1000 U | 520 J | 240000 | 1700 | 590 J | 30000 | 17 | 140 | 98 | 1000 U | 1000 U | 1000 U | 1.28 | 5 | 1100 J | 0.16 U | 6.5 | 2.5E+05 | 1.0E+02 | 2.3E+05 | 1.5E+02 | 1.4E+03 |
| 6/20/2012 | 250 U | 600 | 250000 | 1700 | 560 | 27000 | 62 | 390 | 1800 | 250 UJ | 250 U | 250 U | 3.88 | 5.5 | 1170 | 0.16 U | 6.73 | 8.5E+04 | 8.6E+02 | 2.3E+05 | 1.5E+02 | 2.8E+02 |
| 9/19/2012 | 500 U | 210 J | 240000 | 1900 | 650 | 33000 | 80 | 450 | 2500 | 500 U | 500 U | 500 U | 3.05 | 4.7 | 1090 J | 0.16 U | | 6.6E+03 | 9.3E+02 | 2.3E+05 | 2.3E+04 | 6.3E+05 |
| 12/5/2012 | 500 U | 760 | 230000 | 1700 | 620 | 27000 | 55 | 280 | 1800 | 500 U | 500 U | 500 U | 1.87 | 5 | 1130 | 0.16 U | 6.44 | 1.9E+04 | 2.8 J | 2.5E+04 | 2.9E+01 | 2.9E+01 |
| 4/3/2013 | 44 J | 2000 | 250000 | 1800 | 560 | 28000 | 45 | 230 | 950 J | 47 J | 38 J | 100 U | 0.958 | 4 | 1230 | 0.16 U | 7.07 | 6.8E+04 | 4.7E+02 | 1.4E+05 | 2.7E+02 | 8.0E-01 |
| 7/11/2013 | 500 U | 1400 | 220000 | 1600 | 530 | 18000 | 18 | 130 | 300 | 500 U | 500 U | 500 U | 1.16 | 4.3 | 1130 | 0.16 U | 6.84 | 7.5E+03 | 3.1E+01 | 1.7E+03 | 1.5E+01 | 9.0E-01 |
| 10/15/2013 | 2500 U | 730 J | 240000 | 1800 J | 670 J | 27000 | 43 | 460 | 860 | 2500 U | 2500 U | 2500 U | 4.1 | 5.7 | 1020 | 0.16 U | 6.15 | 3.7E+03 | 1.9E+02 | 6.3E+03 | 3.7E+02 | 1.0E+01 |
| 12/5/2013 | 250 U | 7100 | 190000 | 1200 | 540 | 14000 | 11 | 96 | 240 | 250 U | 250 U | 250 U | 0.183 J | 5 | 562 | 0.16 U | | 3.8E+05 | 2.7E+01 | 8.3E+05 | 6.1E+02 | 2.4E+02 |
| 4/14/2014 | 1 UJ | 3.5 | 77 | 4.9 | 1 U | 67 | 190 | 190 | 19000 | 1 U | 1.2 | 1 U | 0.376 J | 10.3 | 32.1 | 17.7 | 6.4 | 1.7E+04 | 1.3E+02 | 5.9E+04 | 1.3E+02 | 2.4E+04 |
| 8/18/2014 | 250 U | 630 | 300000 | 2000 | 810 | 30000 | 17 | 190 | 240 | 250 U | 250 U | 250 U | 5.17 | 7 | 954 | 0.16 U | 6.93 | 3.9E+05 | 3.1E+02 | 6.7E+05 | 1.3E+01 | 3.4E+00 |
| 12/9/2014 | 200 U | 3500 | 240000 | 1300 | 450 | 12000 | 5.2 | 59 | 70 | 200 U | 200 U | 200 U | 0.186 J | 4.2 | 974 | 0.16 U | 7.49 | 1.6E+05 | 1.6E+02 | 4.7E+05 | 3.1E+01 | 9.6E+00 |
| 3/26/2015 | 82 J | 5300 | 240000 | 1400 | 500 | 14000 | 7.6 | 34 | 140 J | 100 U | 100 U | 100 U | 0.111 J | 3 | 894 | 0.16 U | | 3.8E+05 | 1.3E+01 | 6.0E+05 | 2.7E+01 | 1.2E+02 |
| 10/15/2015 | 500 U | 500 U | 260000 | 1200 | 360 J | 9300 | 14 | 170 | 210 | 500 U | 500 U | 500 U | 3.4 | 4.4 | | | 6.85 | | | | | |
| 5/9/2016 | 50 U | 320 | 240000 | 1600 | 520 | 14000 | 22 | 180 | 310 | 50 U | 29 J | 50 U | 2.23 | 2.3 | 1220 | 0.10 U | 6.78 | 2.3E+03 | 1.6E+03 | 4.6E+03 | 2.1E+00 | 1.9E+00 |
| 9/29/2016 | 5000 U | 5000 U | 190000 | 5000 U | 5000 U | 17000 | 8.8 J | 80 J | 120 J | 5000 U | 5000 U | 5000 UJ | 3 | 2.8 | | | 6.57 | | | | | |
| 4/19/2017 | 5000 U | 5000 U | 190000 | 1500 J | 5000 U | 15000 | 15 | 58 | 300 | 5000 U | 5000 U | 5000 U | 1.4 | 2.8 | 1300 | 1.0 U | 7.09 | 9.9E+03 | 1.3E+03 | 6.8E+03 | 2.5E+00 | 9.6E+00 |
| 10/12/2017 | 5000 U | 5000 U | 160000 | 5000 U | 5000 U | 17000 | 20 | 120 | 410 | 5000 U | 5000 U | 5000 U | 4 | 3.1 | | | 6.86 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 2SP**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/2/2002 | 5000 U | 5000 U | 970000 D | 2200 J | 5000 U | 46000 | | | | 5000 U | 5000 U | 10000 U | | | | | | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 3D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/2/2001 | | 30000 BD | | | | | | | | 87000 D | 1200 DJ | | | | | | | | | | | |
| 12/6/2001 | | 20000 | | | | | | | | 44000 | 2000 U | | | | | | | | | | | |
| 9/30/2002 | | 5500 | | | | | | | | 25000 | 1000 U | | | | | | | | | | | |
| 11/7/2002 | | 4600 | | | | | | | | 16000 D | 110 J | | | | | | | | | | | |
| 9/22/2003 | | 1600 | | | | 500 U | | | | 11000 | 100 J | | | | | | | | | | | |
| 5/28/2008 | 9.7 J | 150 | 2600 | 5.4 J | 37 | 160 | 2.8 J | 13 | 43 | 750 | 32 | | | 2.6 | 808 J | | | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 3DP**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/2/2002 | 8.9 | 130 | 46 | 5.0 U | 4.4 J | 5.0 U | | | | 590 D | 5.9 | 10 U | | | | | | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 3S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/2/2001 | | 4.3 BJ | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 12/6/2001 | | 2.3 J | | | | | | | | 5 U | 5 U | | | | | | | | | | | |
| 9/26/2002 | | 5 | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 2 | | | | | | | | 1.0 U | 1.0 U | | | | | | | | | | | |
| 9/18/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/28/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 5/19/2004 | | 5 U | | | | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/22/2004 | | 2.4 J | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/31/2005 | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.10 U | 0.10 U | 0.2 | 1.0 U | 1.0 U | 1.0 U | | 5.3 | 13.1 | | | | | | | |
| 5/29/2008 | 5 U | 5 U | 1.8 J | 5 U | 5 U | 5 U | 5 U | 5 U | 11 | 5 U | 5 U | | | 2.8 | 2090 J | | | | | | | |
| 6/1/2009 | 5.0 U | 2.2 J | 1.5 J | 5.0 U | 5.0 U | 2.0 U | 1.0 U | 1.0 U | 3.7 | 5.0 U | 5.0 U | 5.0 U | 0.832 | | 2680 | 1.0 U | | | | | | |
| 7/12/2010 | 5 U | 5 U | 0.81 J | 5 U | 5 U | 5 U | 5 U | 5 U | 23 | 5 U | 5 U | 5 U | 1.93 | | 2610 | 0.16 U | | | | | | |
| 6/22/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 16 | 5 U | 5 U | 5 U | 0.637 | 3.3 | 2740 | 0.16 U | 7.59 | | | | | |
| 8/23/2011 | 5 U | 1.3 J | 7.1 | 5 U | 5 U | 5 U | 5 U | 5 U | 11 J | 5 U | 5 U | 5 U | 1.4 | 3.8 | 3170 J | 0.11 J | 7.39 | | | | | |
| 11/9/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 32 | 5 U | 5 U | 5 U | 2.31 | 8.6 | 3470 | 0.16 U | 6.8 | | | | | |
| 3/20/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 7.3 J | 5 U | 5 U | 5 U | 0.0961 J | 14.1 | 283 J | 0.16 U | 6.67 | | | | | |
| 6/26/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 15 U | 5 U | 5 U | 5 U | 0.945 | 19.8 | 462 | 0.16 U | 7.49 | | | | | |
| 9/27/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2.6 J | 5 U | 240 | 5 U | 5 U | 5 U | 0.398 | 12.4 | 529 | 0.16 U | 7.54 | | | | | |
| 12/12/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 140 | 5 U | 5 U | 5 UJ | 1.98 | 8.4 | 662 | 0.16 U | 6.6 | | | | | |
| 4/10/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.0842 J | 8.3 | 254 | 0.16 U | | | | | | |
| 7/17/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2.8 J | 1.5 J | 150 | 5 U | 5 U | 5 U | 0.768 | 8.4 | 342 | 0.16 U | 7.11 | | | | | |
| 10/10/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 69 | 5 U | 5 U | 5 U | 0.228 J | 4.4 | 450 | 0.16 U | | | | | | |
| 12/3/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 3.4 J | 5 U | 5 U | 5 U | 0.151 J | 5.1 J | 699 | 0.16 U | | | | | | |
| 4/11/2014 | 1 UJ | 1 U | 1.3 | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 0.162 J | 9.6 | 226 J+ | 0.16 U | 7.31 | | | | | |
| 8/19/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 31 | 1 U | 1 U | 1 U | 0.0397 J | 4.7 | 523 | 0.16 U | | | | | | |
| 12/3/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 0.4 U | 9.8 | 88.5 | 0.16 U | 6.56 | | | | | |
| 4/1/2015 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 17 | 1 U | 1 U | 1 U | 0.236 J | 76.3 | 215 | 0.16 U | | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 4D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/2/2001 | | 250000 BD | | | | | | | | 56 | 21 | | | | | | | | | | | |
| 12/6/2001 | | 190000 | | | | | | | | 10000 U | 10000 U | | | | | | | | | | | |
| 9/30/2002 | | 61000 | | | | | | | | 1300 J | 2500 U | | | | | | | | | | | |
| 11/6/2002 | | 58000 | | | | | | | | 3300 | 2500 U | | | | | | | | | | | |
| 9/19/2003 | | 31000 | | | | 780 J | | | | 4200 | 1000 U | | | | | | | | | | | |
| 6/23/2004 | | 130000 BD | | | | 720 J | | | | 1800 | 210 J | | | | | | | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 4S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/2/2001 | | 110000 BD | | | | | | | | 13 | 7.2 | | | | | | | | | | | |
| 12/6/2001 | | 46000 | | | | | | | | 1200 U | 1200 U | | | | | | | | | | | |
| 9/26/2002 | | 4100 | | | | | | | | 250 U | 250 U | | | | | | | | | | | |
| 11/4/2002 | | 9000 D | | | | | | | | 150 | 13 J | | | | | | | | | | | |
| 9/18/2003 | | 190 | | | | 230 | | | | 100 | 100 U | | | | | | | | | | | |
| 10/28/2003 | | 130 | | | | 320 | | | | 100 | 100 U | | | | | | | | | | | |
| 5/19/2004 | | 1600 | | | | 1000 | | | | 710 | 68 J | | | | | | | | | | | |
| 6/23/2004 | | 250 | | | | 410 | | | | 43 J | 100 U | | | | | | | | | | | |
| 8/31/2005 | | 941 | 12200 | 100 U | 50.5 J | 1460 | 5.86 | 13.1 | 84.8 | 209 | 100 U | 100 U | | 2.9 | 2420 | | | | | | | |
| 9/19/2006 | 50 U | 932 | 11000 | 50 | 54 | 1530 | 12 U | 17 U | 71.4 | 70 | 50 U | 100 U | | 3.4 | 3410 | | | | | | | |
| 5/29/2008 | 34 J | 15000 | 19000 | 31 J | 43 J | 360 | 13 | 9.8 | 140 | 100 U | 100 U | | | 3.9 | 2920 J | | | | | | | |
| 6/2/2009 | 5.0 U | 1.5 J | 23 | 1.4 J | 5.0 U | 93 | 15 | 24 | 200 | 5.0 U | 0.72 J | 5.0 U | 0.671 | 6.2 | 3750 | 1.7 | | | | | | |
| 10/8/2009 | 5.0 U | 6.7 | 92 | 2.4 J | 0.51 J | 79 | 8.8 | 11 | 120 | 0.38 J | 0.78 J | 5.0 U | | 11.4 | | | | | | | | |
| 7/15/2010 | 5 U | 5 U | 34 J | 1 J | 5 U | 130 | 16 | 13 | 170 | 5 U | 5 U | 5 U | 0.693 | 3.5 | 3970 J | 4.6 | | | | | | |
| 6/23/2011 | 10 U | 59 | 670 | 11 | 3 J | 220 | 12 | 100 | 150 | 2.7 J | 3.4 J | 10 U | 0.338 | 12.2 | 3730 | 45.4 | 7.69 | | | | | |
| 8/23/2011 | 5 U | 10 | 130 | 3.6 J | 5 U | 91 | 12 | 75 | 110 | 5 U | 1.8 J | 5 U | 0.855 | 5.4 | 4090 J | 1.4 | 7.12 | | | | | |
| 11/8/2011 | 5 U | 2.7 J | 27 | 2.3 J | 5 U | 50 | 11 | 110 | 430 | 5 U | 1.6 J | 5 U | 0.498 | 6.1 | 4190 J | 11 | 7.04 | | | | | |
| 3/20/2012 | 5 U | 1.4 J | 46 | 5 U | 5 U | 140 | 14 | 42 | 180 | 5 U | 1.4 J | 5 U | 0.6 | 4.1 | 4440 J | 0.35 | 6.53 | | | | | |
| 6/27/2012 | 5 U | 1.6 J | 37 | 5 U | 5 U | 74 | 5.9 | 15 | 100 J | 5 U | 5 U | 5 U | 0.72 | 3.8 | 3190 J | 5.1 | 7.14 | | | | | |
| 9/25/2012 | 5 U | 2.1 J | 120 | 1.6 J | 5 U | 210 | 15 | 94 | 320 | 5 U | 1.2 J | 5 U | 0.589 | 7 | 3710 J | 6.4 | 6.41 | | | | | |
| 12/12/2012 | 5 U | 8 | 330 | 8.9 | 1.1 J | 260 | 15 | 110 | 1400 | 5 U | 1.3 J | 5 UJ | 0.617 | 5 U | 2200 | 12.1 | 6.39 | | | | | |
| 4/10/2013 | 25 U | 39 | 3400 | 55 | 8 J | 1700 | 31 | 380 | 6100 | 25 U | 6.2 J | 25 U | 0.186 J | 9.2 | 2320 | 22.9 | 6.75 | | | | | |
| 7/18/2013 | 5 U | 10 | 530 | 12 | 1.4 J | 470 | 11 | 89 | 1300 | 1.3 J | 2 J | 5 U | 0.414 | 5.1 | 3420 | 14.1 | 6.87 | | | | | |
| 10/17/2013 | 5 U | 32 | 1300 | 27 | 4 J | 920 | 20 | 300 | 4400 | 0.86 J | 3.2 J | 5 U | 0.24 J | 13.6 | 1840 | 29.1 | 6.25 | | | | | |
| 12/12/2013 | 5 U | 27 | 660 | 20 | 2.9 J | 810 | 16 | 230 | 3600 | 5 U | 2.3 J | 5 U | 0.587 | 13.6 | 3050 | 26.1 | 6.44 | | | | | |
| 4/14/2014 | 5 U | 23 | 3000 | 47 | 6.7 | 1400 | 54 | 350 | 5000 | 5 U | 4.5 J | 5 U | 0.684 | 9 | 2190 | 19.5 | 6.73 | | | | | |
| 8/22/2014 | 1 U | 10 | 1100 | 13 | 3.2 | 450 | 20 | 88 | 2900 | 1 U | 2 | 1 U | 0.185 J | 7.7 | 2240 | 11.3 | | | | | | |
| 12/8/2014 | 1 U | 17 | 2600 | 20 | 8.7 | 1100 | 18 | 150 | 5500 | 1 U | 2.4 | 1 U | 0.3 J | 7.8 | 2560 | 16.3 | 6.73 | | | | | |
| 3/30/2015 | 2 U | 8.6 | 2500 | 29 | 7.4 | 1000 | 16 | 170 | 4700 | 1 J | 3.4 | 2 U | 0.564 | 7.3 | 1950 | 10.8 | 7.61 | | | | | |
| 10/19/2015 | 1 U | 3.2 | 2300 | 5.7 | 5.2 | 420 | 15 | 79 | 2000 | 1 U | 1.3 | 1 U | 0.533 | 4.7 | | | 6.68 | | | | | |
| 5/16/2016 | 1.0 U | 5.1 | 320 D | 1.8 | 1.2 | 230 | 9.3 | 24 | 480 D | 1.0 U | 0.79 J | 1.0 U | 0.639 | 5.6 | 4110 | 2.4 | 6.79 | | | | | |
| 9/26/2016 | 2.5 UJ | 1.2 J | 40 J | 2.5 UJ | 2.5 UJ | 72 J | 3.5 | 4 | 90 | 2.5 UJ | 2.5 UJ | 2.5 UJ | 0.56 | 3.9 | | | 6.75 | | | | | |
| 4/18/2017 | 33 U | 33 U | 770 | 33 U | 33 U | 790 | 7.6 | 49 | 1200 | 33 U | 33 U | 33 U | 0.32 | 6.1 | 3700 | 11 | 7 | | | | | |
| 10/11/2017 | 100 U | 100 U | 4000 | 100 U | 100 U | 2000 | 17 | 130 | 2500 | 100 U | 100 U | 100 U | 0.26 | 6 | | | 6.77 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 5S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/26/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 9/18/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/28/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 5/17/2004 | | 5 U | | | | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/21/2004 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/29/2005 | | 0.42 J | 1 | 1.0 U | 1.0 U | 1.5 | | | | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | | |
| 6/1/2009 | 5.0 U | 5.0 U | 0.85 J | 5.0 U | 5.0 U | 15 | 1.6 | 1.0 U | 38 | 5.0 U | 5.0 U | 5.0 U | 1.16 | | 1110 | 0.98 U | | | | | | |
| 7/8/2010 | 5 U | 5 U | 1.5 J | 5 U | 5 U | 34 | 2.6 J | 2 J | 44 | 5 U | 5 U | 5 U | 1.3 | | 1150 | 0.16 U | | | | | | |
| 8/30/2011 | 5 U | 6.5 | 1.2 J | 5 U | 5 U | 24 | 2.4 J | 1.9 J | 30 | 5 U | 5 U | 5 U | 0.723 | 2.4 | 932 | 0.16 U | 7.06 | | | | | |
| 3/28/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 3.6 J | 5 U | 5 U | 7.9 J | 5 U | 5 U | 5 U | 0.193 J | 1.7 | 1200 | 0.16 U | | | | | | |
| 6/27/2012 | 5 U | 5 U | 1.3 J | 5 U | 5 U | 27 | 1.6 J | 1.1 J | 24 J | 5 U | 5 U | 5 U | 0.678 | 1.6 | 966 J | 0.16 U | | | | | | |
| 9/26/2012 | 5 U | 5 U | 1.4 J | 5 U | 5 U | 35 | 1.4 J | 5 U | 19 | 5 U | 5 U | 5 U | 0.818 | 1.5 | 859 | 0.16 U | 7.32 | | | | | |
| 12/11/2012 | 5 U | 5 U | 2 J | 5 U | 5 U | 33 | 1.8 J | 1.1 J | 20 J | 5 U | 5 U | 5 U | 0.549 | 1.8 | 945 | 0.16 U | | | | | | |
| 4/2/2013 | 5 U | 5 U | 0.99 J | 5 U | 5 U | 3.3 J | 5 U | 5 U | 5.6 | 5 U | 5 U | 5 U | 0.152 J | 1.5 | 1060 | 0.16 U | 7.59 | | | | | |
| 7/16/2013 | 5 U | 5 U | 1.7 J | 5 U | 5 U | 27 | 1.3 J | 5 U | 21 | 5 UJ | 5 U | 5 U | 0.639 | 2.1 | 877 | 0.16 U | 7.36 | | | | | |
| 10/8/2013 | 5 U | 5 U | 1.6 J | 5 U | 5 U | 30 | 1.5 J | 5 U | 17 | 5 U | 5 U | 5 U | 0.591 | 1.9 | 790 | 0.16 U | 6.93 | | | | | |
| 12/3/2013 | 5 U | 5 U | 1.3 J | 5 U | 5 U | 21 | 1.3 J | 5 U | 22 | 5 U | 5 U | 5 U | 0.679 | 2.6 J | 767 | 0.16 U | 6.94 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 6S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/27/2002 | | 29 | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 0.68 J | | | | | | | | 1.0 U | 1.6 | | | | | | | | | | | |
| 9/18/2003 | | 3.4 J | | | | 210 D | | | | 5.0 U | 5.4 | | | | | | | | | | | |
| 10/29/2003 | | 3.9 J | | | | 140 | | | | 5.0 U | 4.4 J | | | | | | | | | | | |
| 5/17/2004 | | 5 U | | | | 190 D | | | | 5 U | 5.6 | | | | | | | | | | | |
| 6/22/2004 | | 11 | | | | 120 | | | | 2 J | 6.6 | | | | | | | | | | | |
| 8/31/2005 | | 0.96 J | 2.2 | 1.0 U | 1.0 U | 9.1 | 0.48 | 0.10 U | 0.32 | 1.0 U | 0.43 J | 1.0 U | | 2.6 | 21.5 | | | | | | | |
| 9/21/2006 | 1 U | 2 | 58 | 1 U | 1 | 267 | 48.3 | 17 U | 185 | 1 U | 11 | 2 U | | 3.5 | 3700 | | | | | | | |
| 5/28/2008 | 5 U | 2.5 J | 34 | 5 U | 1.6 J | 280 | 57 | 8.2 | 300 | 1.4 J | 11 | | | 3.5 | 2440 J | | | | | | | |
| 5/29/2009 | 5.0 U | 0.76 J | 72 | 3.1 J | 1 J | 410 | 58 | 7.5 | 290 | 0.86 J | 6.8 | 5.0 U | 0.0514 J | 6.5 | 2610 | 1.0 U | | | | | | |
| 7/14/2010 | 5 U | 5 U | 58 | 5 U | 1.1 J | 300 | 56 | 6.6 | 200 | 0.86 J | 6.7 | 5 U | 0.137 J | 5.5 | 3540 | 0.16 U | | | | | | |
| 6/22/2011 | 5 U | 1.4 J | 60 | 2.5 J | 5 U | 120 | 12 | 2 J | 62 | 5 U | 1.9 J | 5 U | | | | | 10.1 | | | | | |
| 8/24/2011 | 5 U | 5 U | 23 | 5 U | 0.98 J | 210 | 45 | 3.5 J | 110 | 5 U | 6.3 | 5 U | | | | | 6.96 | | | | | |
| 11/1/2011 | 5 U | 5 U | 40 | 5 U | 1.5 J | 250 | 46 | 4.8 J | 150 | 5.5 | 9.9 | 5 U | | | | | 6.78 | | | | | |
| 3/23/2012 | 5 U | 5 U | 670 | 2.4 J | 3.3 J | 280 | 17 | 5.4 | 48 | 1.5 J | 10 | 5 U | | | | | | | | | | |
| 6/27/2012 | 5 U | 5 U | 53 | 5 U | 5 U | 210 | 34 | 4 J | 110 | 5 U | 3.9 J | 5 U | | | | | | | | | | |
| 9/26/2012 | 5 U | 5 U | 31 | 5 U | 1.5 J | 250 | 50 | 5.8 | 140 J | 1.1 J | 8.5 | 5 U | | | | | 6.45 | | | | | |
| 12/11/2012 | 5 U | 5 U | 29 | 5 U | 5 U | 110 | 24 | 3.3 J | 75 J | 5 U | 2.8 J | 5 U | | | | | 6.89 | | | | | |
| 4/11/2013 | 5 U | 5 U | 1.9 J | 5 U | 5 U | 1.3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | | | 8.37 | | | | | |
| 7/19/2013 | 5 U | 5 U | 97 | 0.9 J | 5 U | 230 | 27 | 4.6 J | 140 | 1.1 J | 5.3 | 5 U | | | | | 6.45 | | | | | |
| 10/17/2013 | 5 U | 5 U | 66 | 5 U | 1.3 J | 230 | 54 | 15 | 200 | 0.87 J | 7.4 | 5 U | | | | | 6.24 | | | | | |
| 12/11/2013 | 500 U | 500 U | 500 U | 500 U | 500 U | 170 J | 45 | 4.7 J | 160 | 500 U | 500 U | 500 U | | | | | | | | | | |
| 4/16/2014 | 0.53 J | 76 | 67 | 0.55 J | 1 U | 60 | 5.4 | 1.1 J | 56 | 1 U | 1.2 | 1 U | | | | | 7.7 | | | | | |
| 8/21/2014 | 1 U | 1.3 | 44 | 0.6 J | 0.63 J | 170 | 31 | 6.4 | 140 | 1 U | 4.5 | 1 U | | | | | | | | | | |
| 12/10/2014 | 1 U | 1 U | 38 | 1.1 | 0.97 J | 190 | 32 | 3.4 J | 100 | 0.91 J | 6.5 | 1 U | | | | | 7.73 | | | | | |
| 4/1/2015 | 1 U | 1 | 30 | 0.84 J | 1 U | 35 | 2.7 J | 5 U | 23 | 1 U | 1 U | 1 U | | | | | 8.28 | | | | | |
| 10/19/2015 | 1 U | 0.7 J | 42 | 1 U | 1 U | 53 | 2.9 J | 1.7 J | 100 | 1 U | 0.55 J | 1 U | | | | | 9.31 | | | | | |
| 5/12/2016 | 1.0 U | 1.0 U | 25 | 1.0 U | 1.0 U | 91 | 11 | 12 | 88 | 1.0 U | 1.4 | 1.0 U | | | | | 7.33 | | | | | |
| 4/12/2017 | 2.0 U | 2.0 U | 12 | 2.0 U | 2.0 U | 43 | 12 | 16 | 93 | 2.0 U | 1.1 J | 2.0 U | | | | | 7.36 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 7D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/25/2006 | 501 | 18300 | 7480 | 20 U | 24 | 96 | 12 U | 17 U | 15.7 | 309 | 39 | 40 U | | 3.3 | 857 | | | | | | | |
| 1/15/2008 | 720 J | 140000 | 26000 | 5.0 U | 5.0 U | 690 J | 12 | 15 | 82 | 360 J | 5.0 U | 5.0 U | | 7.79 | 1150 | | | | | | | |
| 5/30/2008 | 740 | 75000 | 26000 | 500 U | 110 J | 1000 | 8.9 | 15 | 74 | 120 J | 500 U | | | 5.1 | 1400 | | | | | | | |
| 7/25/2008 | 5000 UJ | 5000 UJ | 130000 J | 360 J | 5000 UJ | 900 J | 16 J | 28 J | 72 J | 5000 UJ | 5000 UJ | 5000 UJ | | 480 J | 1190 J | | | | | | | |
| 9/30/2008 | 2500 U | 1200 J | 59000 | 740 J | 140 J | 1500 | 4.4 | 13 | 55 | 2500 U | 2500 U | 2500 U | | 212 | 1280 | | | | | | | |
| 12/11/2008 | 5.0 U | 2600 | 53000 | 350 J | 5.0 U | 1400 J | 5.3 | 15 | 62 | 5.0 U | 5.0 U | 5.0 U | | 278 | 649 | | | | | | | |
| 6/2/2009 | 500 U | 1600 | 19000 | 68 J | 44 J | 1200 | 7.8 | 18 | 380 | 500 U | 53 J | 500 U | 0.043 J | 124 | 1210 | 304 | | | | | | |
| 6/5/2009 | 53 J | 2200 | 26000 | 79 J | 37 J | 1200 | 5.6 J | 10 J | 200 J | 42 J | 75 J | 500 U | | | | | | | | | | |
| 10/8/2009 | 100 J | 3100 | 23000 | 88 J | 55 J | 940 | 12 | 21 | 890 | 64 J | 100 J | 500 U | 0.0317 U | 117 | 485 | | | | | | | |
| 7/14/2010 | 47 J | 1800 | 17000 | 41 J | 30 J | 1400 | 13 | 110 | 3700 | 100 U | 47 J | 100 U | 0.2 U | 77 | 1310 | 229 | | | | | | |
| 6/23/2011 | 830 J | 63000 | 80000 | 1000 U | 250 J | 1300 | 8.3 | 56 | 130 | 730 J | 1000 U | 1000 U | 0.106 J | 56.1 | 856 | 128 | 7.64 | | | | | |
| 8/24/2011 | 500 U | 770 | 140000 | 98 J | 350 J | 990 | 80 | 530 | 160 | 500 U | 120 J | 500 U | 0.11 J | 138 | 170 | 41.2 | 6.93 | | | | | |
| 11/8/2011 | 560 | 25000 | 29000 | 60 J | 65 J | 1300 | 38 | 210 | 3200 | 110 J | 140 J | 250 U | 2.56 | 166 | 12.7 J | 157 | 7.26 | | | | | |
| 3/20/2012 | 70 | 150 | 3100 | 50 U | 12 J | 890 | 19 | 93 | 170 | 50 U | 50 U | 50 U | 0.977 | 4.4 | 5 U | 0.27 | 7.42 | | | | | |
| 6/26/2012 | 390 | 19000 | 32000 | 56 J | 60 J | 630 | 17 | 190 | 3100 | 150 | 80 J | 100 U | 0.2 U | 14.7 | 376 | 230 | 8.67 | | | | | |
| 9/18/2012 | 420 | 20000 | 31000 | 61 J | 76 J | 1000 | 29 | 370 | 4200 | 200 | 110 | 100 U | 0.2 U | 27.9 | 579 J | 243 | 7.2 | | | | | |
| 12/7/2012 | 500 U | 500 U | 110000 | 110 J | 500 U | 930 | 22 | 250 | 2800 | 260 J | 520 | 500 UJ | 0.292 | 935 | 7.5 | 302 | 5.96 | | | | | |
| 4/9/2013 | 46 J | 190 J | 64000 | 81 J | 130 J | 740 | 8.1 | 79 | 1100 | 2600 | 1000 | 250 U | 0.0459 J | 210 | 10 J | 224 | | | | | | |
| 7/17/2013 | 89 J | 1300 | 59000 | 91 J | 500 U | 1200 | 17 | 180 | 3400 | 900 | 1100 | 500 U | 0.2 U | 178 | 37.9 | 242 | 6.73 | | | | | |
| 10/16/2013 | 65 J | 270 | 72000 | 89 J | 81 J | 850 | 9.9 | 120 | 2400 | 2100 | 1400 | 250 U | 0.4 U | 216 | 6.1 | 219 | 6.27 | | | | | |
| 12/13/2013 | 84 J | 530 | 69000 | 110 J | 190 J | 1100 | 17 | 280 | 2000 | 2100 | 1900 | 500 U | 0.4 U | 192 | 22.2 | 208 | 6.55 | | | | | |
| 4/8/2014 | 100 U | 360 | 44000 | 88 J | 85 J | 2100 | 45 | 360 | 4700 | 510 | 740 | 100 U | 0.4 U | 589 | 96.3 | 165 | 7.17 | | | | | |
| 8/18/2014 | 100 U | 780 | 72000 | 140 | 93 J | 3000 | 41 | 470 | 8600 | 360 | 650 | 100 U | 0.4 U | 219 | 12.2 | 220 | 6.89 | | | | | |
| 12/11/2014 | 66 J | 1100 | 98000 | 120 | 110 | 2200 | 27 | 410 | 6900 | 630 | 990 | 100 U | 0.183 J | 213 | 13.5 J+ | 212 | 6.58 | | | | | |
| 4/2/2015 | 200 U | 320 | 72000 | 200 U | 200 U | 3500 | 58 | 410 | 8000 | 270 | 660 | 200 U | 0.0579 J | 112 | 7.1 | 119 | 6.76 | | | | | |
| 10/20/2015 | 290 | 24000 | 69000 | 140 | 53 J | 2300 | 26 | 420 | 7900 | 150 | 310 | 100 U | 0.4 U | 85.4 | | | 6.73 | | | | | |
| 5/17/2016 | 94 J | 560 | 67000 D | 130 | 69 J | 2500 | 12 | 260 | 9600 D | 100 U | 150 | 100 U | 0.400 U | 84.8 | 31.6 | 159 | 7 | | | | | |
| 9/30/2016 | 170 U | 66 J | 72000 | 140 J | 46 J | 5300 | 7.5 J | 300 J | 5000 J | 41 J | 350 | 170 U | 0.063 J | 240 | | | 6.54 | | | | | |
| 4/21/2017 | 250 U | 110 J | 11000 | 250 U | 250 U | 2600 | 4 | 100 | 2500 | 250 | 180 J | 250 U | 0.037 J | 15 | 370 | 140 | 7.59 | | | | | |
| 10/13/2017 | 1000 U | 1000 U | 23000 | 1000 U | 1000 U | 4200 | 26 | 480 | 7800 D | 1000 U | 270 J | 1000 U | 0.100 U | 53 | | | 6.9 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 7S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/27/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 9/18/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/29/2003 | | 2.9 J | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 5/17/2004 | | 5 U | | | | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/22/2004 | | 12 | | | | 5.0 U | | | | 1.2 J | 5.0 U | | | | | | | | | | | |
| 8/29/2005 | | 1.0 U | 1 | 1.0 U | 1.0 U | 1.0 U | | | | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | | |
| 9/21/2006 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | | 1 U | 1 U | 2 U | | | | | | | | | | |
| 5/28/2008 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/1/2009 | 5.0 U | 6.9 | 0.75 J | 5.0 U | 5.0 U | 2.0 U | 1.0 U | 1.0 U | 5.7 | 5.0 U | 5.0 U | 5.0 U | 0.122 | | 2070 | 1.0 U | | | | | | |
| 7/14/2010 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 7.6 J | 5 U | 5 U | 5 U | 0.307 | | 2070 | 0.16 U | | | | | | |
| 8/31/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 9.4 J | 5 U | 5 U | 5 U | 0.716 | 3.6 | 2170 | 0.16 U | 6.65 | | | | | |
| 3/20/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 15 U | 5 U | 5 U | 5 U | 0.0756 J | 2.7 | 2430 J | 0.16 U | 6.89 | | | | | |
| 6/26/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 7.5 J | 5 U | 5 U | 5 U | 0.709 | 2.4 | 1750 | 0.16 U | 6.54 | | | | | |
| 9/18/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 6.9 J | 5 U | 5 U | 5 U | 1.32 | | 1970 | 0.16 U | 6.6 | | | | | |
| 12/12/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 UJ | 0.239 | 2 | 2070 | 0.16 U | 6.53 | | | | | |
| 4/10/2013 | 5 U | 5 U | 2.1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.0446 J | 2.6 | 2210 | 0.16 U | | | | | | |
| 7/17/2013 | 5 U | 5 U | 0.95 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.2 U | 2.4 | 1940 | 0.16 U | | | | | | |
| 10/17/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.307 J | 2 | 12100 | 0.16 U | 6.53 | | | | | |
| 12/3/2013 | 5 U | 5 U | 0.98 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.235 J | 2.9 J | 1880 | 0.16 U | | | | | | |
| 4/10/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 0.0861 J | 3.9 | 1800 | 0.16 U | | | | | | |
| 8/21/2014 | 1 U | 1 U | 0.71 J | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 4.44 | 2.9 | 1700 | 0.16 U | | | | | | |
| 12/12/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 0.25 J | 0.98 J | 1780 | 0.16 U | 6.72 | | | | | |
| 3/31/2015 | 1 U | 1 U | 0.66 J | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1 UJ | 1 U | 1 U | 0.48 | 2.7 | 1620 | 0.16 U | | | | | | |
| 10/21/2015 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 22 | 1 U | 1 U | 1 U | 2.15 | 1.8 | | | 6.57 | | | | | |
| 5/6/2016 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 5.0 U | 15 | 1.0 U | 1.0 U | 1.0 U | 1.53 | 1.2 | 2010 | 0.10 U | 6.64 | | | | | |
| 4/14/2017 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 11 | 1.0 U | 1.0 U | 1.0 U | 2.9 | 1 | 2000 | 0.53 J | 7.06 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 8S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/27/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 9/18/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/28/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 5/17/2004 | | 5 U | | | | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/22/2004 | | 4.3 J | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/31/2005 | | 2.7 | 14.3 | 1.0 U | 1.0 U | 0.97 J | | | | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | | |
| 9/21/2006 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | | 1 U | 1 U | 2 U | | | | | | | | | | |
| 5/29/2008 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 5/29/2009 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 2.0 U | 1.0 U | 1.0 U | 2.7 | 5.0 U | 5.0 U | 5.0 U | 0.0088 J | | 850 | 0.99 U | | | | | | |
| 7/15/2010 | 5 U | 5 U | 14 | 5 U | 5 U | 18 | 5 U | 5 U | 15 U | 5 U | 5 U | 5 U | 0.2 U | | 3890 J | 0.16 U | | | | | | |
| 9/1/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 15 U | 5 U | 5 U | 5 U | 0.0192 J | 14.9 | 424 J | 0.16 U | 9.86 | | | | | |
| 3/29/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 15 U | 5 U | 5 U | 5 U | 0.0812 J | 7 | 5270 J | 0.16 U | 6.34 | | | | | |
| 6/21/2012 | 5 U | 5 U | 4 J | 5 U | 5 U | 3.8 J | 5 U | 5 U | 15 U | 5 UJ | 5 U | 5 U | 0.0325 J | 25.1 | 4390 J | 0.16 U | | | | | | |
| 9/19/2012 | 5 U | 5 U | 2.8 J | 5 U | 5 U | 3.5 J | 5 U | 5 U | 8.3 J | 5 U | 5 U | 5 U | 0.2 U | 5.7 | 4010 J | 0.16 U | 6.94 | | | | | |
| 12/12/2012 | 5 U | 1.5 J | 2.1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 UJ | 0.2 U | 5.6 | 2450 | 0.16 U | 6.85 | | | | | |
| 4/10/2013 | 5 U | 5 U | 1.7 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.2 U | 5.3 | 3840 | 0.16 U | | | | | | |
| 7/17/2013 | 5 U | 5 U | 0.87 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.594 | 6.7 | 3270 | 0.16 U | | | | | | |
| 10/9/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.122 J | 4.2 | 1250 | 0.16 U | 6.97 | | | | | |
| 12/10/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.4 U | 3.6 | 1360 | 0.16 U | 7.05 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW- 9S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/27/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 9/18/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/28/2003 | | 5.0 U | | | | 22 | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 5/18/2004 | | 5 U | | | | 84 | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/23/2004 | | 5.0 U | | | | 120 | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/31/2005 | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | | |
| 9/20/2006 | 1 U | 1 U | 358 | 3 | 1 U | 212 | | | | 1 U | 1 U | 2 U | | | | | | | | | | |
| 5/30/2008 | 5 U | 67 | 130 | 5 U | 5 U | 35 | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/1/2009 | 2500 U | 30000 | 99000 | 2500 U | 2500 U | 4100 | 19 | 27 | 210 | 2500 U | 2500 U | 2500 U | 0.0658 J | | 1410 | 50.2 | | | | | | |
| 7/12/2010 | 5 U | 5 U | 410 | 2.2 J | 1.6 J | 140 | 5 U | 3.2 J | 24 | 5 U | 1.2 J | 5 U | 1.28 | | 3510 | 0.16 U | | | | | | |
| 8/31/2011 | 5 U | 5 U | 310 | 2 J | 0.99 J | 170 | 5 U | 6 | 27 | 5 U | 5 U | 5 U | 1.61 | 7.6 | 3190 | 0.16 U | 5.92 | | | | | |
| 3/28/2012 | 5 U | 5 U | 1300 | 7.5 | 4.2 J | 460 | 5 U | 15 | 32 | 5 U | 3.1 J | 5 U | 0.81 | 5.4 | 2640 | 0.16 U | 6.44 | | | | | |
| 6/26/2012 | 5 U | 5 U | 1100 | 7.8 | 3.7 J | 290 | 5 U | 19 | 42 | 5 U | 3.6 J | 5 U | 1.06 | 5.9 | 2300 | 0.16 U | 6.84 | | | | | |
| 9/26/2012 | 10 U | 10 U | 930 | 5.4 J | 2.7 J | 510 | 5 U | 20 | 43 | 10 U | 2.8 J | 10 U | 1.14 | 5.8 | 2300 | 0.16 U | 6.48 | | | | | |
| 12/12/2012 | 5 U | 5 U | 740 | 4.9 J | 2.6 J | 320 | 5 U | 20 | 40 | 5 U | 3.6 J | 5 UJ | 0.752 | 4.6 | 1990 | 0.16 U | 6.52 | | | | | |
| 4/2/2013 | 5 U | 5 U | 1100 | 8.8 | 4.3 J | 640 | 5 U | 35 | 54 | 2.6 J | 7.7 | 5 U | 0.627 | 5.8 | 2480 | 15.2 | 7.28 | | | | | |
| 7/19/2013 | 5 U | 5 U | 480 | 4.1 J | 5 U | 360 | 5 U | 25 | 50 | 5 U | 3.6 J | 5 U | 1.1 | 7.5 | 2530 | 9 | 6.48 | | | | | |
| 10/17/2013 | 5 U | 5 U | 220 | 1.6 J | 5 U | 150 | 5 U | 7.3 | 19 | 5 U | 1.5 J | 5 U | 0.22 J | 16.8 | 778 | 0.95 | 6.95 | | | | | |
| 12/11/2013 | 5 U | 5 U | 270 | 2.1 J | 0.89 J | 180 | 5 U | 12 | 25 | 0.82 J | 2.4 J | 5 U | 0.896 | 15.4 | 1740 | 1.3 | 6.61 | | | | | |
| 4/17/2014 | 1 U | 2.4 | 1000 | 7.5 | 4.1 | 620 | 3.3 J | 50 | 90 | 16 | 16 | 1 U | 0.549 | 10.7 | 1160 | 13.3 | 6.93 | | | | | |
| 8/19/2014 | 1 U | 0.9 J | 460 | 3.8 | 2.3 | 330 | 5 U | 26 | 58 | 5.6 | 7.3 | 1 U | 1.76 | 10.8 | 2040 | 5.7 | 7.11 | | | | | |
| 12/12/2014 | 1 U | 1 U | 240 | 1.5 | 0.95 J | 260 | 5 U | 21 | 39 | 3.6 | 4.4 | 1 U | 2.98 | 6 | 2490 | 4.6 | 6.65 | | | | | |
| 3/27/2015 | 1 U | 2 | 710 | 4.9 | 5.1 | 500 | 1.6 J | 30 | 100 J | 19 | 18 | 1 U | 1.37 | 14.7 | 892 | 2.6 | 7.13 | | | | | |
| 10/13/2015 | 1 U | 1 U | 1 | 1 U | 1 U | 1 U | 5 U | 5 U | 19 | 1 U | 1 U | 1 U | 2.02 | 8.9 | | | 6.74 | | | | | |
| 5/13/2016 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 5.0 U | 26 | 1.0 U | 1.0 U | 1.0 U | 0.400 U | 7.6 | 1390 | 0.10 U | 9.24 | | | | | |
| 9/28/2016 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 UJ | 0.50 UJ | 6.7 J | 1.0 U | 1.0 U | 1.0 U | 0.100 U | 6.9 | | | 7.6 | | | | | |
| 4/14/2017 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 27 | 1.0 U | 1.0 U | 1.0 U | 0.10 U | 4.6 | 450 | 1.0 U | 12.44 | | | | | |
| 10/13/2017 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 14 | 1.0 U | 1.0 U | 1.0 U | 0.99 | 5.1 | | | 6.93 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-10D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/2/2002 | | 960 D | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/1/2002 | | 4300 D | | | | | | | | 43 | 14 | | | | | | | | | | | |
| 11/6/2002 | | 5400 | | | | | | | | 140 J | 250 U | | | | | | | | | | | |
| 9/22/2003 | | 2500 | | | | 66 J | | | | 230 | 28 J | | | | | | | | | | | |
| 10/29/2003 | | 3700 D | | | | 130 | | | | 200 DJ | 46 | | | | | | | | | | | |
| 5/18/2004 | | 4700 | | | | 62 J | | | | 230 | 120 U | | | | | | | | | | | |
| 6/22/2004 | | 1000 | | | | 66 | | | | 53 | 12 J | | | | | | | | | | | |
| 9/1/2005 | | 1090 | 2630 | 5.8 J | 15.6 | 180 | | | | 147 | 25.6 | 10 U | | | | | | | | | | |
| 9/21/2006 | 5 U | 37 | 1320 | 5 U | 9 | 111 | 12 U | 17 U | 49.9 | 28 | 11 | 10 U | | 2.4 | 1060 | | | | | | | |
| 5/29/2008 | 5 U | 5 U | 98 | 5 U | 5 U | 27 | 14 | 2.3 J | 150 | 1.4 J | 5 U | | | 2.7 | 722 J | | | | | | | |
| 5/29/2009 | 5.0 U | 5.0 U | 34 | 5.0 U | 5.0 U | 17 | 7.4 | 1.0 U | 110 | 0.89 J | 5.0 U | 5.0 U | 1.03 | | 706 | 1.15 | | | | | | |
| 7/12/2010 | 5 U | 5 U | 24 | 5 U | 5 U | 10 | 13 | 1.1 J | 190 | 1.3 J | 5 U | 5 U | 0.822 | | 934 | 4 | | | | | | |
| 8/21/2011 | | | | | | | | | | | | | | | | | 6.17 | | | | | |
| 8/31/2011 | 25 U | 58 | 6200 | 15 J | 27 | 180 | 7.4 | 3.7 J | 110 J | 680 | 30 | 25 U | 0.174 J | 6.4 | 840 | 8.4 | | | | | | |
| 3/27/2012 | 10 U | 10 | 1500 | 3.5 J | 10 | 120 | 4.6 J | 2.2 J | 71 | 290 | 17 | 10 U | 0.751 | 3.2 | 766 | 1.7 | | | | | | |
| 3/29/2012 | 5 U | 8 | 1300 | 3.6 J | 16 | 98 | 11 | 1.7 J | 120 | 300 | 17 | 5 U | 0.515 | 2.4 | 974 J | 3.9 | 6.97 | | | | | |
| 6/25/2012 | 10 U | 2.3 J | 1300 | 3.1 J | 15 | 91 | 15 | 3.5 J | 200 | 190 | 15 | 10 U | 0.168 J | 2.1 | 932 | 6.2 | 6.95 | | | | | |
| 9/27/2012 | 5 U | 1.8 J | 1000 | 2.7 J | 11 | 120 | 25 | 3.4 J | 310 | 180 | 19 | 5 U | 0.103 J | 1.7 | 916 | 5.3 | 6.72 | | | | | |
| 12/13/2012 | 10 U | 4.9 J | 810 | 2.6 J | 10 | 160 | 4.7 J | 3.8 J | 78 | 250 J | 15 J | 10 U | 0.716 | 13.3 | 627 | 4.7 | 6.85 | | | | | |
| 4/2/2013 | 5 U | 2.6 J | 770 | 2.3 J | 9 | 160 | 19 | 5.5 | 270 | 230 | 17 | 5 U | 0.0773 J | 2.5 | 815 | 7.5 | 7.92 | | | | | |
| 7/18/2013 | 10 U | 2.8 J | 1100 | 2.5 J | 8.9 J | 170 | 11 | 7.4 | 150 | 140 | 21 | 10 U | 0.104 J | 2.2 | 657 | 4.7 | 7.89 | | | | | |
| 10/11/2013 | 5 U | 4.6 J | 1100 | 3.2 J | 13 | 250 | 5 | 8.4 | 82 | 250 | 30 | 5 U | 0.125 J | 1.9 | 636 | 3.2 | 7.12 | | | | | |
| 12/11/2013 | 5 U | 2.2 J | 770 | 2.4 J | 9.8 | 160 | 16 | 5.6 | 240 | 150 | 21 | 5 U | 0.097 J | 2.1 | 761 | 6.1 | 6.73 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-10S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/15/2005 | | 4.2 | 1120 | 17.2 | 1.8 | 75.7 | 0.45 | 1.9 | 13.8 | 1.0 U | 1.0 U | 1.0 U | | 2.5 | 501 | | | | | | | |
| 9/20/2006 | 1 U | 12 | 355 | 2 | 1 U | 40 | 12 U | 17 U | 11.3 | 1 U | 1 U | 2 U | | 2.4 | 766 | | | | | | | |
| 5/29/2008 | 5 U | 64 | 730 | 5.3 | 2.3 J | 140 | 22 | 14 | 200 | 5 U | 5 U | | | 2.4 | 1350 J | | | | | | | |
| 5/28/2009 | 5.0 U | 120 | 1900 | 37 | 4.7 J | 240 | 2.3 | 10 | 46 | 5.0 U | 5.0 U | 5.0 U | 2.99 | | 804 | 0.99 U | | | | | | |
| 7/13/2010 | 5 U | 66 | 750 | 5.1 | 2.4 J | 110 | 1.4 J | 4.1 J | 31 | 5 U | 5 U | 5 U | 1.65 | | 1020 J | 0.16 U | | | | | | |
| 6/21/2011 | 5 U | 14 | 1100 | 8.7 | 2.9 J | 210 | 5.5 | 18 | 260 | 5 U | 3.4 J | 5 U | | | | | 6.77 | | | | | |
| 8/24/2011 | 5 U | 16 | 1100 | 12 | 3 J | 270 | 25 | 42 | 4400 | 5 U | 2.3 J | 5 U | | | | | 6.85 | | | | | |
| 11/2/2011 | 25 U | 34 | 5600 | 27 | 8.9 J | 640 | 7.3 | 69 | 3000 | 25 U | 25 U | 25 U | | | | | 6.86 | | | | | |
| 3/28/2012 | 5 U | 6.2 | 880 | 11 | 2.6 J | 510 | 12 | 230 | 1700 | 5 U | 5 U | 5 U | | | | | 6.85 | | | | | |
| 6/19/2012 | 5 U | 10 | 1000 | 19 | 2.7 J | 740 | 16 | 590 | 6600 | 5 U | 2.3 J | 5 U | | | | | 6.69 | | | | | |
| 9/25/2012 | 5 U | 4.9 J | 410 | 25 | 5 U | 810 | 7 | 1700 | 1700 | 5 U | 1.2 J | 5 U | | | | | | | | | | |
| 12/10/2012 | 5 UJ | 3.2 J | 300 | 12 | 5 U | 280 | 6.5 | 380 | 350 | 5 U | 5 U | 5 UJ | | | | | 6.62 | | | | | |
| 4/5/2013 | 5 U | 3 J | 330 | 6.8 | 0.91 J | 280 | 5.2 | 280 | 570 J | 5 U | 5 U | 5 U | | | | | | | | | | |
| 7/12/2013 | 5 U | 4.9 J | 340 | 13 | 5 U | 250 | 9 | 570 | 2700 | 5 U | 5 U | 5 U | | | | | 7.13 | | | | | |
| 10/15/2013 | 5 U | 5 U | 230 | 4.2 J | 5 U | 170 | 3.2 J | 100 | 240 | 5 U | 5 U | 5 U | | | | | 6.69 | | | | | |
| 12/3/2013 | 5 U | 5 U | 280 | 3.6 J | 5 U | 130 | 2.5 J | 48 | 250 | 5 U | 5 U | 5 U | | | | | 7.09 | | | | | |
| 4/17/2014 | 1 U | 1.2 | 280 | 2.9 | 0.75 J | 130 | 1.9 J | 45 | 570 | 1 U | 1 U | 1 U | | | | | 6.91 | | | | | |
| 8/18/2014 | 1 U | 3 | 630 | 4.7 | 1.8 | 190 | 2.9 J | 23 | 440 | 1 U | 1 U | 1 U | | | | | 6.97 | | | | | |
| 12/10/2014 | 1 U | 1.6 | 240 | 6.3 | 0.97 J | 140 | 6.2 | 14 | 2100 | 1 U | 1 U | 1 U | | | | | 6.9 | | | | | |
| 3/27/2015 | 1 U | 1.5 | 170 | 1.5 | 1 U | 49 | 5 U | 5.6 | 200 J | 1 U | 1 U | 1 U | | | | | 6.98 | | | | | |
| 10/21/2015 | 1 U | 5.5 | 410 | 2.7 | 0.89 J | 79 | 3.3 J | 14 | 91 | 1 U | 1 U | 1 U | | | | | 6.57 | | | | | |
| 5/13/2016 | 1.0 U | 11 | 530 D | 11 | 1.7 | 160 | 4.4 J | 12 | 1300 D | 1.0 U | 1.0 U | 1.0 U | | | | | 6.83 | | | | | |
| 9/29/2016 | 20 U | 14 J | 520 | 20 U | 20 U | 79 | 0.94 J | 5.3 J | 23 J | 20 U | 20 U | 20 UJ | | | | | 7.05 | | | | | |
| 4/13/2017 | 13 U | 5.3 J | 460 | 6.1 J | 13 U | 99 | 1.3 | 5.4 | 490 | 13 U | 13 U | 13 U | | | | | 7.42 | | | | | |
| 10/10/2017 | 10 U | 4.4 J | 240 | 10 U | 10 U | 48 | 1.5 | 9.9 | 77 | 10 U | 10 U | 10 U | | | | | 6.92 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-11D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/3/2002 | | 30 | | | | | | | | 240 D | 9.5 | | | | | | | | | | | |
| 10/1/2002 | | 15 | | | | | | | | 110 | 2.8 J | | | | | | | | | | | |
| 11/4/2002 | | 9.4 | | | | | | | | 110 D | 3 | | | | | | | | | | | |
| 9/22/2003 | | 29 | | | | 2.6 J | | | | 360 D | 4.5 J | | | | | | | | | | | |
| 10/29/2003 | | 14 | | | | 4.2 J | | | | 130 | 4.5 J | | | | | | | | | | | |
| 5/18/2004 | | 50 U | | | | 50 U | | | | 120 | 50 U | | | | | | | | | | | |
| 6/22/2004 | | 1400 B | | | | 50 U | | | | 1700 D | 41 J | | | | | | | | | | | |
| 8/29/2005 | | 5 | 113 | 0.48 J | 1.6 | 2.6 | 6.16 | 0.10 U | 44.8 | 239 | 6 | 1.0 U | | 3.2 | 1260 | | | | | | | |
| 9/20/2006 | 5 U | 69 | 257 | 5 U | 5 U | 5 U | 12 U | 17 U | 24.3 | 315 | 9 | 10 U | | 3.8 | 1660 | | | | | | | |
| 5/28/2008 | 8.4 J | 260 J | 190 J | 5 U | 7.3 J | 9.3 J | 76 J | 5 U | 460 J | 200 J | 4.6 J | | | 4 | 1490 J | | | | | | | |
| 5/28/2009 | 21 J | 1200 | 3500 | 100 U | 19 J | 640 | 46 | 13 | 280 | 220 | 48 J | 100 U | 0.0616 J | | 1030 | 3 | | | | | | |
| 10/8/2009 | 10 J | 280 | 2100 | 5.2 J | 16 J | 250 | 45 | 5.0 U | 240 | 430 | 33 J | 100 U | | 4 | | | | | | | | |
| 7/8/2010 | 3.4 J | 130 | 1300 | 3.6 J | 12 | 310 | 60 | 7.4 | 320 | 140 | 33 | 5 U | 0.2 U | | 1290 | 11.9 | | | | | | |
| 6/22/2011 | 310 | 5900 | 3100 | 250 U | 490 | 250 U | 18 | 1.4 J | 95 | 25000 | 280 | 250 U | | | | | 7.72 | | | | | |
| 8/24/2011 | 17 | 100 | 1300 | 2.8 J | 44 | 30 | 250 J | 5 UJ | 1000 J | 2300 | 69 | 10 U | | | | | 6.93 | | | | | |
| 11/1/2011 | 5.8 J | 21 | 550 | 10 U | 17 | 30 | 170 | 5 U | 1400 | 1700 | 33 | 10 U | | | | | 6.87 | | | | | |
| 3/26/2012 | 2.8 J | 9.8 | 380 | 1.3 J | 12 | 38 | 100 | 5 U | 430 | 990 | 37 | 5 U | | 1.4 | | | 6.52 | | | | | |
| 6/20/2012 | 1.2 J | 10 | 150 | 5 U | 4.2 J | 53 | 110 | 1.9 J | 750 | 430 J | 21 | 5 U | | | | | 7.31 | | | | | |
| 9/26/2012 | 5 U | 9.1 | 150 | 5 U | 6.9 | 67 | 67 | 2.1 J | 280 | 320 | 26 | 5 U | | | | | 6.59 | | | | | |
| 12/7/2012 | 5 U | 7.2 | 120 | 5 U | 3.7 J | 47 | 81 | 1.3 J | 350 | 270 | 26 | 5 UJ | | | | | 6.72 | | | | | |
| 4/9/2013 | 1.1 J | 9.6 | 210 | 1.3 J | 9.6 | 160 | 9.6 | 6.9 | 59 | 630 | 55 | 5 U | | | | | 7.42 | | | | | |
| 7/11/2013 | 5 U | 5.3 | 99 | 5 U | 4.3 J | 69 | 24 | 2.3 J | 110 | 290 J | 35 | 5 U | | | | | 7.33 | | | | | |
| 10/16/2013 | 5 U | 8.2 | 170 | 1.2 J | 7.7 | 140 | 10 | 5.1 | 63 | 500 | 60 | 5 U | | | | | 6.77 | | | | | |
| 12/3/2013 | 5 U | 7.9 | 170 | 1.5 J | 6.6 | 140 | 4.6 J | 13 | 110 | 480 | 66 | 1.9 J | | | | | 7.51 | | | | | |
| 4/15/2014 | 0.54 J | 6.3 | 140 | 1.3 | 14 | 110 | 1.7 J | 21 | 260 | 340 | 62 | 1.9 | | | | | 7.48 | | | | | |
| 8/14/2014 | 1 U | 4.3 | 53 | 0.87 J | 4.8 | 100 | 18 | 13 | 220 | 290 | 43 | 3 | | | | | 7.11 | | | | | |
| 12/5/2014 | 1 U | 5.2 | 110 | 1.2 | 8.1 | 94 | 1.8 J | 11 | 140 | 320 | 63 | 2.6 | | | | | 7.11 | | | | | |
| 4/2/2015 | 1 U | 1.6 | 23 | 0.65 J | 0.98 J | 40 | 7.7 | 12 | 150 | 68 | 23 | 1.5 | | | | | 6.71 | | | | | |
| 10/15/2015 | 1 U | 1.5 | 15 | 1 U | 1.3 | 21 | 41 | 8.6 | 220 | 35 | 16 | 0.69 J | | | | | 7.86 | | | | | |
| 5/13/2016 | 1.0 U | 2.7 | 15 | 1.0 U | 1.6 | 17 | 36 | 1.3 J | 190 | 65 | 12 | 0.65 J | | | | | 6.94 | | | | | |
| 9/27/2016 | 2.0 U | 1.1 J | 33 | 0.93 J | 2.0 U | 37 | 31 | 8 | 160 | 33 | 12 | 2.0 U | | | | | 7.18 | | | | | |
| 4/11/2017 | 1.0 U | 0.74 J | 62 | 1.9 | 0.41 J | 77 | 1.9 | 22 | 310 | 38 | 15 | 1.0 U | | | | | 6.97 | | | | | |
| 10/9/2017 | 1.7 U | 2.3 | 25 | 0.94 J | 1.2 J | 77 | 12 | 20 | 440 | 110 D | 40 | 1.7 U | | | | | 6.94 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-11S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/15/2005 | | 103 | 609 | 7.5 | 3.2 | 91.4 | 0.95 | 1.6 | 68 | 13.9 | 25.9 | 1.0 U | | 2.2 | 2260 | | | | | | | |
| 9/20/2006 | 5 U | 31 | 735 | 11 | 6 | 158 | 12 U | 17 U | 85.8 | 33 | 49 | 10 U | | 2.9 | 2880 | | | | | | | |
| 5/28/2008 | 5 U | 240 | 920 | 26 | 14 | 140 | 2.3 J | 1.9 J | 140 | 110 | 67 | | | 2.7 | 2190 J | | | | | | | |
| 5/28/2009 | 25 U | 180 | 1700 | 59 | 13 J | 240 | 1.5 | 1.0 U | 97 | 65 | 88 | 25 U | 0.238 | | 1960 | 1.0 U | | | | | | |
| 7/8/2010 | 5 U | 190 | 920 | 47 | 11 | 210 | 1.6 J | 1.7 J | 85 | 30 | 68 | 5 U | 0.599 | | 1850 | 0.16 U | | | | | | |
| 6/23/2011 | 50 U | 93 | 4400 | 27 J | 58 | 450 | 2.7 J | 5 J | 77 | 600 | 170 | 50 U | | | | | 6.8 | | | | | |
| 8/24/2011 | 10 U | 200 | 1300 | 20 | 21 | 210 | 2.9 J | 3.6 J | 110 | 210 | 81 | 10 U | | | | | 6.79 | | | | | |
| 11/2/2011 | 5 U | 150 | 2200 | 29 | 37 | 790 | 3.2 J | 38 | 260 | 300 | 200 | 5 U | | | | | 6.68 | | | | | |
| 3/22/2012 | 5 U | 160 | 460 | 15 | 8.2 | 300 | 5.1 | 87 | 840 | 49 | 68 | 5 U | | | | | 6.44 | | | | | |
| 6/21/2012 | 5 U | 89 | 280 | 14 | 4.4 J | 270 | 4 J | 110 | 770 | 39 J | 67 | 5 U | | | | | 6.71 | | | | | |
| 9/26/2012 | 5 U | 140 | 300 | 14 | 3.1 J | 230 | 1.6 J | 62 | 250 | 8.8 | 34 | 5 U | | | | | 6.55 | | | | | |
| 12/10/2012 | 5 UJ | 110 | 150 | 7.8 | 1.5 J | 54 | 5 U | 18 | 87 | 3.5 J | 13 | 5 UJ | | | | | 6.75 | | | | | |
| 4/12/2013 | 5 U | 44 | 180 | 9.6 | 1.7 J | 160 | 2 J | 97 | 950 | 14 | 48 | 5 U | | | | | 6.91 | | | | | |
| 7/18/2013 | 5 U | 84 | 150 | 8.8 | 1.4 J | 75 | 1.8 J | 80 | 880 | 11 | 44 | 5 U | | | | | 6.38 | | | | | |
| 10/17/2013 | 5 U | 70 | 160 | 8.7 | 1.3 J | 82 | 3.4 J | 120 | 760 | 9.5 | 49 | 5 U | | | | | 6.47 | | | | | |
| 12/3/2013 | 5 U | 73 | 140 | 8.7 | 1.3 J | 70 | 2.8 J | 120 | 1200 | 11 | 58 | 1.3 J | | | | | 6.87 | | | | | |
| 4/17/2014 | 1 U | 60 | 120 | 7.1 | 1.1 | 53 | 2.1 J | 91 | 770 | 6.8 | 41 | 0.97 J | | | | | 7.16 | | | | | |
| 8/21/2014 | 1 U | 87 | 160 | 8.4 | 1.2 | 50 | 4 J | 98 | 1200 | 5.9 | 42 | 1 | | | | | 7.18 | | | | | |
| 12/3/2014 | 1 U | 86 | 150 | 7.7 | 1.3 | 51 | 2.6 J | 79 | 680 | 4.3 | 33 | 0.89 J | | | | | 6.86 | | | | | |
| 3/25/2015 | 1 U | 28 | 210 | 7.4 | 1.6 | 60 | 1.6 J | 47 | 460 | 1.6 | 17 | 1 U | | | | | 7.44 | | | | | |
| 10/15/2015 | 2 U | 2.8 | 190 | 6.2 | 2 U | 34 | 1.1 J | 9 | 150 | 1.7 J | 5 | 2 U | | | | | 6.97 | | | | | |
| 5/11/2016 | 1.0 U | 32 | 260 | 7.6 | 2 | 65 | 1.9 J | 36 | 390 | 1.0 U | 12 | 1.1 | | | | | 6.92 | | | | | |
| 9/27/2016 | 13 U | 24 | 240 | 6.4 J | 13 U | 95 | 1.1 | 16 | 90 | 13 U | 7 J | 13 U | | | | | 6.98 | | | | | |
| 4/11/2017 | 2.0 U | 11 | 84 | 1.5 J | 2.0 U | 63 | 1.3 | 42 | 440 | 2.0 U | 10 | 1.7 J | | | | | 7.56 | | | | | |
| 10/10/2017 | 2.0 U | 1.1 J | 88 | 2.7 | 2.0 U | 82 | 2.6 | 85 | 550 | 2.0 U | 7 | 2.0 U | | | | | 6.77 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-12D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/23/2002 | | 95 | | | | | | | | 1.7 J | 5.0 U | | | | | | | | | | | |
| 10/1/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 11/4/2002 | | 5.0 U | | | | | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 9/19/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/30/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 5/17/2004 | | 5 U | | | | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/21/2004 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/30/2005 | | 1.0 U | 0.82 J | 1.0 U | 1.0 U | 1.0 U | | | | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | | |
| 9/20/2006 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | | 1 U | 1 U | 2 U | | | | | | | | | | |
| 5/29/2008 | 5 U | 12 | 1.9 J | 5 U | 5 U | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 5/28/2009 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 2.0 U | 37 | 1.0 U | 210 | 5.0 U | 5.0 U | 5.0 U | 0.0286 J | | 1460 | 32.8 | | | | | | |
| 7/9/2010 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 25 | 5 U | 130 | 5 U | 5 U | 5 U | 0.2 U | | 1520 | 31.4 | | | | | | |
| 9/1/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 24 | 5 U | 130 | 5 U | 5 U | 5 U | 0.0172 J | 1.6 | 1790 J | 47.2 | 6.38 | | | | | |
| 3/28/2012 | 5 U | 5 U | 1.6 J | 5 U | 5 U | 5 U | 27 | 5 U | 130 | 5 U | 5 U | 5 U | 0.2 U | 1 U | 1650 | 41.8 | 6.74 | | | | | |
| 6/19/2012 | 5 U | 5 U | 4.7 J | 5 U | 5 U | 5 U | 28 | 5 U | 150 | 1.7 J | 5 U | 5 U | 0.2 U | 0.78 J | 1780 | 36.7 | 6.83 | | | | | |
| 9/27/2012 | 5 U | 1.9 J | 3.7 J | 5 U | 5 U | 5 U | 39 | 5 U | 200 | 5 U | 5 U | 5 U | 0.2 U | 1.7 | 1630 | 35.2 | 6.91 | | | | | |
| 12/13/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 2 U | 26 | 1.2 J | 130 | 5 U | 5 U | 5 U | 0.2 U | 1 U | 1330 | 28.8 | 6.39 | | | | | |
| 4/2/2013 | 5 U | 5 U | 16 | 5 U | 5 U | 7.9 | 29 | 5 U | 160 | 5.1 | 5 U | 5 U | 0.2 U | 1 U | 1540 | 42.8 | 7.39 | | | | | |
| 7/15/2013 | 5 U | 5 U | 3.5 J | 5 U | 5 U | 1.5 J | 37 | 5 U | 200 | 1.2 J | 5 U | 5 U | 0.2 U | 1 U | 1500 | 41.2 | 7.14 | | | | | |
| 10/14/2013 | 5 U | 5 U | 5.5 | 5 U | 5 U | 2.7 J | 42 | 5 U | 200 | 1.3 J | 5 U | 5 U | 0.4 U | 0.88 J | 1370 | 42.2 | 6.82 | | | | | |
| 12/10/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 41 | 5 U | 210 | 5 U | 5 U | 5 U | 0.4 U | 1.4 | 1250 | 41.5 | 6.74 | | | | | |
| 4/8/2014 | 1.1 | 39 | 570 | 2 | 13 | 130 | 5 U | 4.2 J | 21 | 370 | 16 | 1 U | 0.195 J | 3 | 600 | 0.32 | 7.22 | | | | | |
| 8/19/2014 | 1 U | 1 U | 7.5 | 1 U | 1 U | 2.2 | 39 | 5 U | 210 | 1.9 | 1 U | 1 U | 0.4 U | 1.6 | 1490 | 47.5 | 7.17 | | | | | |
| 12/12/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 33 | 5 U | 170 | 1 U | 1 U | 1 U | 0.4 U | 1 U | 1520 | 42 | 6.75 | | | | | |
| 3/27/2015 | 1 U | 1.6 | 170 | 0.59 J | 2.1 | 70 | 26 | 2.8 J | 140 J | 24 | 4.8 | 1 U | 0.4 U | 1.5 | 1180 | 23.7 | 7.16 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-12S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/15/2005 | | | | | | | | | | | | | | 16.7 | 1650 | | | | | | | |
| 9/21/2006 | 20 U | 3050 | 2210 | 20 U | 21 | 136 | 12 U | 17 U | 52.2 | 1420 | 140 | 40 U | | | | | | | | | | |
| 5/28/2008 | 21 J | 11000 | 6200 | 35 J | 54 | 240 | 20 | 10 | 290 | 400 | 52 | | | | | | | | | | | |
| 5/29/2009 | 100 U | 2500 | 3800 | 26 J | 23 J | 1300 | 9.2 | 19 | 170 | 200 | 110 | 100 U | 0.253 | 10.9 | 630 | 25.4 | | | | | | |
| 7/14/2010 | 25 U | 2900 | 2800 | 27 | 15 J | 1500 | 8.1 | 29 | 110 | 150 | 93 | 25 U | 0.218 | | 1140 | 9.7 | | | | | | |
| 6/22/2011 | 81 J | 7700 | 8300 | 250 U | 360 | 200 J | 9.2 | 5.4 | 110 | 18000 | 400 | 250 U | | | | | 7.62 | | | | | |
| 8/25/2011 | 18 J | 5300 | 9300 | 33 J | 170 | 370 | 7.2 | 3.8 J | 86 | 9100 | 500 | 50 U | | | | | 6.72 | | | | | |
| 11/2/2011 | 10 J | 3300 | 4500 | 20 J | 78 | 510 | 5.9 | 25 | 240 | 3000 | 480 | 25 U | | | | | 6.88 | | | | | |
| 3/28/2012 | 25 U | 4700 | 2900 | 26 | 15 J | 230 | 20 | 150 | 2000 | 270 | 100 | 25 U | | | | | 6.76 | | | | | |
| 6/27/2012 | 25 U | 7000 | 2900 | 38 | 8 J | 190 | 16 | 150 | 2000 | 120 | 48 | 25 U | | | | | 7.19 | | | | | |
| 9/26/2012 | 50 U | 4500 | 3000 | 29 J | 50 U | 450 | 13 | 210 | 2700 | 88 | 55 | 50 U | | | | | 6.38 | | | | | |
| 12/10/2012 | 5 UJ | 740 | 1100 | 14 | 5.5 | 280 | 18 | 320 | 3200 | 74 | 53 | 1.3 J | | | | | 7.97 | | | | | |
| 4/11/2013 | 10 U | 1800 | 960 | 22 | 2.6 J | 210 | 27 | 400 | 6200 | 51 | 45 | 10 U | | | | | 6.96 | | | | | |
| 7/18/2013 | 25 U | 2700 | 2900 | 41 | 6.7 J | 510 | 27 | 320 | 6200 | 45 | 49 | 25 U | | | | | 6.29 | | | | | |
| 10/17/2013 | 5 U | 980 | 2800 | 40 | 6.7 | 430 | 29 | 480 | 5600 | 24 | 28 | 5 U | | | | | 6.58 | | | | | |
| 12/13/2013 | 10 U | 2100 | 1500 | 29 | 4.8 J | 300 | 34 | 450 | 7800 | 27 | 38 | 10 U | | | | | 6.69 | | | | | |
| 4/17/2014 | 2 U | 1300 | 610 | 22 | 2 | 130 | 20 | 370 | 4100 | 17 | 23 | 2 U | | | | | 7.13 | | | | | |
| 8/19/2014 | 1 U | 1400 | 1500 | 48 | 3.7 | 740 | 43 | 570 | 9000 | 23 | 34 | 1 U | | | | | 6.84 | | | | | |
| 12/10/2014 | 5 U | 3100 | 1700 | 35 | 2.7 J | 430 | 24 | 380 | 5800 | 12 | 19 | 5 U | | | | | 6.72 | | | | | |
| 4/2/2015 | 2 U | 850 | 730 | 30 | 1.9 J | 520 | 33 | 500 | 5200 | 10 | 19 | 2 U | | | | | 7.52 | | | | | |
| 10/16/2015 | 5 U | 1600 | 2000 | 42 | 3.8 J | 770 | 30 | 690 | 6200 | 12 | 24 | 5 U | | | | | 6.21 | | | | | |
| 5/13/2016 | 5.0 U | 2300 D | 1600 D | 44 | 3.8 J | 420 | 29 | 820 D | 4400 D | 8.5 | 20 | 2.7 J | | | | | 7.12 | | | | | |
| 9/28/2016 | 100 U | 1900 | 1400 | 30 J | 100 U | 920 | 19 | 480 | 2600 | 100 U | 100 U | 100 U | | | | | 6.77 | | | | | |
| 4/12/2017 | 50 U | 2300 | 1200 | 38 J | 50 U | 470 | 9.8 | 270 | 1600 | 50 U | 14 J | 50 U | | | | | 7.22 | | | | | |
| 10/10/2017 | 40 U | 130 | 780 | 37 J | 40 U | 660 | 43 | 820 | 4100 D | 40 U | 20 J | 40 U | | | | | 6.58 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-13D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/25/2002 | | 51 | | | | | | | | 6.1 | 3 J | | | | | | | | | | | |
| 10/1/2002 | | 38 | | | | | | | | 3.3 J | 2.7 J | | | | | | | | | | | |
| 11/6/2002 | | 36 | | | | | | | | 5.3 | 3.8 J | | | | | | | | | | | |
| 9/22/2003 | | 24 | | | | 120 | | | | 3.7 J | 4.6 J | | | | | | | | | | | |
| 10/29/2003 | | 20 | | | | 71 | | | | 3.8 J | 4 J | | | | | | | | | | | |
| 5/19/2004 | | 14 | | | | 76 | | | | 2.3 J | 3.1 J | | | | | | | | | | | |
| 6/21/2004 | | 33 | | | | 110 | | | | 25 U | 25 U | | | | | | | | | | | |
| 8/30/2005 | | 16.3 | 234 | 1.9 | 1.5 | 150 | 0.48 | 8.6 | 17.7 | 2.2 | 7.9 | 1.0 U | | 2 | 1010 | | | | | | | |
| 9/21/2006 | 1 U | 9 | 658 | 4 | 2 | 261 | 12 U | 17 U | 17.7 | 1 U | 26 | 2 U | | 3.5 | | | | | | | | |
| 10/25/2006 | | | | | | | | | | | | | | | 1160 | | | | | | | |
| 5/27/2008 | 5 U | 30 | 660 | 4.9 J | 4.2 J | 250 | 1.4 J | 12 | 41 | 2.1 J | 29 | | | 2.8 | 971 J | | | | | | | |
| 5/27/2009 | 50 U | 50 U | 1000 | 6.2 J | 50 U | 420 | 2.9 | 15 | 44 | 50 U | 42 J | 50 U | 0.169 | | 923 | 1.0 U | | | | | | |
| 7/8/2010 | 5 U | 5 U | 700 | 6 | 4.2 J | 240 | 1.6 J | 6.9 | 22 | 1.1 J | 36 | 1.3 J | 0.218 | | 98.6 J | 0.78 | | | | | | |
| 8/30/2011 | 5 U | 1.4 J | 510 | 4.2 J | 2.9 J | 280 | 2.5 J | 12 | 27 | 5.6 | 29 | 5 U | 0.218 | 3.7 | 1100 | 0.84 | 7.14 | | | | | |
| 3/29/2012 | 5 U | 3.1 J | 370 | 3.7 J | 2.2 J | 290 | 9.9 | 8.5 | 20 | 5 U | 28 | 5 U | 0.217 | 2.7 | 907 J | 4.3 | 6.38 | | | | | |
| 6/25/2012 | 5 U | 5 U | 270 | 2.8 J | 1.9 J | 150 | 9.1 | 10 | 29 | 5 U | 14 | 5 U | 0.242 | 2.9 | 1700 | 3.1 | 6.88 | | | | | |
| 9/26/2012 | 5 U | 5 U | 280 | 2.3 J | 1.5 J | 140 | 13 | 7.9 | 29 | 5 U | 10 | 5 U | 0.304 | 1.8 | 1400 | 2.6 | 6.48 | | | | | |
| 12/12/2012 | 5 U | 1.1 J | 230 | 2.7 J | 1.6 J | 120 | 16 | 13 | 40 | 5 U | 11 | 5 UJ | 0.158 J | 2 | 1070 | 2.8 | 6.53 | | | | | |
| 4/2/2013 | 5 U | 5 U | 230 | 2.2 J | 0.99 J | 230 | 15 | 26 | 110 | 5 U | 16 | 5 U | 0.2 U | 2.2 | 1030 | 27 | 6.92 | | | | | |
| 7/12/2013 | 5 U | 5 U | 250 | 2 J | 0.97 J | 170 | 13 | 32 | 370 | 5 U | 11 | 5 U | 0.0543 J | 2.6 | 936 | 5 | 7.7 | | | | | |
| 10/17/2013 | 5 U | 5 U | 220 | 1.6 J | 0.86 J | 170 | 11 | 30 | 350 | 5 U | 7.3 | 5 U | 0.176 J | 2.8 | 2350 | 5.9 | 6.25 | | | | | |
| 12/10/2013 | 5 U | 1.3 J | 180 | 5 U | 5 U | 81 | 9.7 | 21 | 310 | 5 U | 4.9 J | 5 U | 0.072 J | 4.1 | 673 | 4.9 | 6.91 | | | | | |
| 4/11/2014 | 1 UJ | 1 U | 150 | 1.1 | 0.59 J | 130 | 8.9 | 28 | 840 | 1 U | 4.8 | 1 U | 0.4 U | 5.1 | 783 J+ | 16 | 6.85 | | | | | |
| 8/15/2014 | 1 U | 1 U | 200 | 1.3 | 0.79 J | 230 | 11 | 63 | 660 | 1 U | 8.4 | 1 U | 0.0838 J | 5.4 | 855 | 7.1 | 6.58 | | | | | |
| 12/11/2014 | 1 U | 1 U | 170 | 0.96 J | 1 U | 190 | 16 | 51 | 1400 | 1 U | 5.4 | 1 U | 0.17 J | 1.8 | 1070 | 8.7 | 6.79 | | | | | |
| 3/31/2015 | 1 U | 0.68 J | 180 | 1.1 | 0.68 J | 160 | 11 | 62 | 1200 | 1 U | 6.2 | 1 U | 0.133 J | 2.6 | 641 | 5.6 | 6.47 | | | | | |
| 10/14/2015 | 1 U | 0.55 J | 180 | 1 | 0.66 J | 160 | 3.4 J | 61 | 1400 | 1 U | 4.9 | 1 U | 0.232 J | 3.2 J+ | | | 6.62 | | | | | |
| 5/11/2016 | 1.0 U | 1.3 | 180 | 1.4 | 0.64 J | 180 | 4.2 J | 65 | 1100 D | 1.0 U | 9.6 | 1.0 U | 0.0694 J | 2.7 | 704 | 2.6 | 7.48 | | | | | |
| 9/27/2016 | 20 U | 20 U | 170 | 20 U | 20 U | 370 | 3.5 | 76 | 1400 | 20 U | 11 J | 20 U | 0.100 U | 3.1 | | | 6.88 | | | | | |
| 4/13/2017 | 5.0 U | 5.0 U | 120 | 5.0 U | 5.0 U | 160 | 2.8 | 26 | 460 | 5.0 U | 5.2 | 5.0 U | 0.079 J | 3.1 | 640 | 2.2 | 7.47 | | | | | |
| 10/9/2017 | 13 U | 13 U | 240 | 13 U | 13 U | 650 | 9.8 | 160 | 2500 | 13 U | 14 | 13 U | 0.100 U | 3.1 | | | 6.58 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-14D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/11/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 9/22/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 10/29/2003 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 5/17/2004 | | 5 U | | | | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/21/2004 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/29/2005 | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 11.9 | 0.10 U | 32.4 | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | | |
| 9/20/2006 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | | 1 U | 1 U | 2 U | | | | | | | | | | |
| 5/30/2008 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 5/28/2009 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 2.0 U | 37 | 1.0 U | 99 | 5.0 U | 5.0 U | 5.0 U | 0.155 | | 1060 | 2.5 | | | | | | |
| 7/8/2010 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 35 | 5 U | 95 | 5 U | 5 U | 5 U | 0.186 J | | 1150 | 7 | | | | | | |
| 9/1/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 34 | 5 U | 95 | 5 U | 5 U | 5 U | 0.0915 J | 2.6 | 1150 J | 9.2 | 6.67 | | | | | |
| 3/26/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 30 | 5 U | 77 | 5 U | 5 U | 5 U | 0.0327 J | 1.8 | 1150 | 6.2 | 7.04 | | | | | |
| 6/27/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 28 | 5 U | 82 | 5 U | 5 U | 5 U | 0.0966 J | 2 | 1160 J | 7.4 | 6.99 | | | | | |
| 9/27/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 27 | 5 U | 81 | 5 U | 5 U | 5 U | 0.075 J | 1.7 | 891 | 5.8 | 6.89 | | | | | |
| 12/13/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 12 | 5 U | 51 | 5 UJ | 5 UJ | 5 U | 0.2 U | 1.6 | 764 | 2.2 | 6.64 | | | | | |
| 4/8/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 15 | 5 U | 45 | 5 U | 5 U | 5 U | 0.2 U | 1.8 | 1050 | 3.8 | 7.29 | | | | | |
| 7/12/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 6.8 | 5 U | 35 | 5 U | 5 U | 5 U | 0.2 U | 2 | 948 | 1.1 | 7.49 | | | | | |
| 10/9/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 4.3 J | 5 U | 28 | 5 U | 5 U | 5 U | 0.4 U | 2 | 875 | 0.69 | 7.14 | | | | | |
| 12/6/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 9.8 | 5 U | 52 | 5 U | 5 U | 5 U | 0.4 U | 3.5 | 1030 | 1.8 | 7.18 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-15D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/16/2003 | | 0.73 J | | | | 1.0 U | | | | 1.0 U | 1.0 U | | | | | | | | | | | |
| 9/23/2003 | | 4000 D | | | | 220 DJ | | | | 980 D | 220 DJ | | | | | | | | | | | |
| 10/29/2003 | | 3900 | | | | 260 | | | | 1300 | 250 | | | | | | | | | | | |
| 5/19/2004 | | 1400 | | | | 360 | | | | 960 | 260 | | | | | | | | | | | |
| 6/21/2004 | | 1000 | | | | 160 J | | | | 530 | 150 J | | | | | | | | | | | |
| 8/30/2005 | | 49.8 | 5360 | 58.3 | 27.8 | 298 | 0.5 | 2.4 | 19.7 | 165 | 65.8 | 20 U | | 2.6 | 1610 | | | | | | | |
| 9/20/2006 | 10 U | 10 U | 3000 | 11 | 18 | 233 | 12 U | 17 U | 10 | 92 | 38 | 20 U | | 3 | 924 | | | | | | | |
| 5/27/2008 | 10 U | 3.1 J | 1400 | 9.1 J | 9.3 J | 170 | 1 J | 3.7 J | 33 | 36 | 20 | | | 3 | 950 J | | | | | | | |
| 5/27/2009 | 25 U | 25 U | 790 | 5.6 J | 5.6 J | 520 | 1.0 U | 7.8 | 34 | 25 | 20 J | 25 U | 0.291 | | 960 | 1.0 U | | | | | | |
| 7/7/2010 | 5 U | 1.8 J | 310 | 2.9 J | 3.1 J | 220 | 5 U | 4.8 J | 23 | 23 | 16 | 5 U | 0.276 | | 922 | 0.37 | | | | | | |
| 8/31/2011 | 10 U | 4.5 J | 1700 | 4.8 J | 11 | 540 | 5 U | 2.5 J | 18 | 30 | 20 | 10 U | 0.164 J | 4.2 | 740 | 3.5 | 7.66 | | | | | |
| 3/29/2012 | 5 U | 2.9 J | 720 | 3.6 J | 6.1 | 260 | 5 U | 1.1 J | 7.5 J | 34 | 14 | 5 U | 0.16 J | 0.93 J | 420 J | 0.37 | 7.12 | | | | | |
| 6/19/2012 | 5 U | 2.9 J | 560 | 3.7 J | 4.3 J | 220 | 5 U | 1.1 J | 10 J | 41 | 14 | 5 U | 0.15 J | 1.5 | 52.1 | 0.47 | 7.24 | | | | | |
| 9/26/2012 | 5 U | 23 | 820 | 5.8 | 6.3 | 390 | 5 U | 2.9 J | 21 | 40 | 25 | 5 U | 0.309 | 2.1 | 958 | 1.5 | 6.57 | | | | | |
| 12/3/2012 | 5 U | 10 | 940 | 6.2 | 6.6 | 360 | 5 U | 2.9 J | 20 | 53 J | 37 | 5 U | 0.184 J | 2.7 | 499 | 2.4 | 6.08 | | | | | |
| 4/2/2013 | 5 U | 2.7 J | 480 | 4.5 J | 4.2 J | 240 | 5 U | 3.3 J | 15 | 49 | 25 | 5 U | 0.169 J | 1.1 | 506 | 1.8 | 7.59 | | | | | |
| 7/9/2013 | 5 U | 1.9 J | 290 | 3.1 J | 2.5 J | 260 | 5 U | 2.7 J | 17 | 37 | 23 | 5 U | 0.332 | 3.1 | 511 | 1.7 | 7.83 | | | | | |
| 10/9/2013 | 5 U | 1.8 J | 290 | 3.1 J | 2.3 J | 320 | 1 J | 10 | 67 | 44 | 27 | 5 U | 0.267 J | 2.1 | 726 | 7.4 | 5.95 | | | | | |
| 12/4/2013 | 5 U | 3.2 J | 420 | 4.2 J | 4.3 J | 350 | 5 U | 4.9 J | 42 | 99 | 46 | 5 U | 0.214 J | 3.7 | 530 J | 4.8 | 7.24 | | | | | |
| 4/8/2014 | 1 U | 2.9 | 290 | 4.1 | 3.2 | 260 | 5 U | 5.6 | 45 | 59 | 36 | 1 U | 0.145 J | 1.8 | 458 | 3.5 | 7.58 | | | | | |
| 8/18/2014 | 1 U | 2.9 | 270 | 3.6 | 2.9 | 300 | 5 U | 3.6 J | 27 | 63 | 31 | 1 U | 0.111 J | 3 | 389 | 1.2 | 7.32 | | | | | |
| 12/5/2014 | 1 U | 4.1 | 470 | 6.4 | 5 | 460 | 1.4 J | 17 | 170 | 110 | 58 | 1 U | 0.124 J | 2.5 | 69.4 | 7.1 | 7.94 | | | | | |
| 3/27/2015 | 1 U | 7.6 | 870 | 8.2 | 8.2 | 740 | 1.4 J | 22 | 220 J | 280 | 97 | 1 U | 0.098 J | 2.3 | 763 | 12.5 | 7.22 | | | | | |
| 10/13/2015 | 1 U | 4.5 | 370 | 5.3 | 6.1 | 370 | 5 U | 6.8 | 46 | 160 | 51 | 1 U | 0.125 J | 1.8 | | | 7.21 | | | | | |
| 5/11/2016 | 1.0 U | 4.1 | 290 D | 4.7 | 5.4 | 280 | 5.0 U | 3.4 J | 32 | 140 | 37 | 1.0 U | 0.154 J | 2.1 | 364 | 1.9 | 7.52 | | | | | |
| 9/27/2016 | 33 U | 7.8 J | 660 | 33 U | 18 J | 580 | 0.67 | 8.5 | 65 | 590 | 92 | 33 U | 0.26 | 2.2 | | | 7.28 | | | | | |
| 4/11/2017 | 10 U | 5.8 J | 410 | 3.9 J | 5.3 J | 520 | 0.48 J | 7.5 | 65 | 260 | 51 | 10 U | 0.22 | 1.8 | 440 | 2.7 | 7.17 | | | | | |
| 10/10/2017 | 10 U | 10 U | 190 | 3.1 J | 10 U | 350 | 0.2 J | 4 | 45 | 54 | 22 | 10 U | 0.25 | 2.4 | | | 7.09 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-16D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/15/2003 | | 3.3 | | | | 2 | | | | 0.23 J | 0.3 J | | | | | | | | | | | |
| 9/23/2003 | | 20 | | | | 30 | | | | 2.3 J | 5.0 U | | | | | | | | | | | |
| 10/29/2003 | | 23 J | | | | 22 J | | | | 25 U | 25 U | | | | | | | | | | | |
| 5/18/2004 | | 12 J | | | | 15 J | | | | 20 U | 20 U | | | | | | | | | | | |
| 6/21/2004 | | 9.8 J | | | | 24 J | | | | 25 U | 25 U | | | | | | | | | | | |
| 8/30/2005 | | 7.7 | 884 | 10.9 | 3 J | 39.3 | | | | 2.4 J | 4.9 J | 5.0 U | | | | | | | | | | |
| 9/22/2006 | 1 U | 3 | 545 | 3 | 2 | 95 | 12 U | 17 U | 11.2 | 1 U | 6 | 2 U | | | | | | | | | | |
| 5/27/2008 | 5 U | 2.2 J | 520 | 2.7 J | 2.9 J | 160 | 4.3 J | 5.6 | 31 | 3.3 J | 12 | | | | | | | | | | | |
| 5/27/2009 | 25 U | 25 U | 560 | 2.6 J | 25 U | 200 | 7 | 6.3 | 38 | 25 U | 11 J | 25 U | 0.0723 J | | 1080 | 1.6 | | | | | | |
| 7/7/2010 | 5 U | 1.5 J | 490 | 2.1 J | 2.7 J | 180 | 24 | 4.9 J | 68 | 1.4 J | 7.7 | 5 U | 0.147 J | | 1090 | 3.6 | | | | | | |
| 8/31/2011 | 5 U | 2.4 J | 420 | 2 J | 2.8 J | 170 | 10 | 5.4 | 35 | 15 | 11 | 5 U | 0.249 | 4 | 1140 | 1.6 | 6.13 | | | | | |
| 3/26/2012 | 5 U | 1.8 J | 380 | 1.8 J | 2.8 J | 220 | 5.7 | 4.4 J | 36 | 6.5 | 12 | 5 U | 0.178 J | 2.9 | 961 | 1.6 | 6.98 | | | | | |
| 6/22/2012 | 5 U | 2.2 J | 450 | 2 J | 3 J | 230 | 6.9 | 8.8 | 46 | 8.7 J | 14 | 5 U | 0.228 | 2.7 | 983 J | 0.54 | 7.27 | | | | | |
| 9/26/2012 | 5 U | 12 | 330 | 1.5 J | 2.5 J | 180 | 5.1 | 7.7 | 41 | 3.9 J | 11 | 5 U | 0.344 | 2.3 | 1040 | 1.3 | 6.53 | | | | | |
| 12/11/2012 | 5 U | 1.5 J | 290 | 1.1 J | 1.6 J | 130 | 9.9 | 10 | 72 J | 2.5 J | 11 | 5 U | 0.327 | 2.5 | 1040 | 1.6 | 7.13 | | | | | |
| 4/2/2013 | 5 U | 1.3 J | 270 | 1.3 J | 2 J | 180 | 11 | 21 | 150 | 1.7 J | 11 | 5 U | 0.213 | 2.6 | 1020 | 1.8 | 7 | | | | | |
| 7/12/2013 | 5 U | 1.2 J | 250 | 1.4 J | 1.6 J | 140 | 8.1 | 16 | 150 | 0.98 J | 9.3 | 5 U | 0.213 | 2.8 | 974 | 1.9 | | | | | | |
| 10/16/2013 | 5 U | 1 J | 230 | 1.3 J | 1.6 J | 190 | 5.5 | 17 | 180 | 5 U | 8.1 | 5 U | 0.162 J | 2.3 | 1000 | 2.4 | 6.86 | | | | | |
| 12/10/2013 | 5 U | 1.2 J | 300 | 1.5 J | 1.7 J | 200 | 9.7 | 31 | 370 | 5 U | 9.8 | 5 U | 0.151 J | 4.6 | 1060 | 3 | 6.81 | | | | | |
| 4/15/2014 | 1 U | 0.89 J | 250 | 1.2 | 1.3 | 190 | 10 | 29 | 260 | 1 U | 7 | 1 U | 0.0792 J | 3.8 | 1010 | 1.9 | 7.1 | | | | | |
| 8/15/2014 | 1 U | 0.95 J | 250 | 1.2 | 1.4 | 190 | 8 | 18 | 220 | 1 U | 6.5 | 1 U | 0.156 J | 4.9 | 972 | 2.4 | 6.77 | | | | | |
| 12/11/2014 | 1 U | 0.8 J | 200 | 0.86 J | 1.1 | 150 | 9.6 | 17 | 190 | 1 U | 4.9 | 1 U | 0.13 J | 1.3 | 902 | 1.9 | 7.05 | | | | | |
| 4/2/2015 | 1 U | 0.77 J | 220 | 1.4 | 1.1 | 260 | 16 | 37 | 390 | 1 U | 6.7 | 1 U | 0.117 J | 2.5 | 1090 | 3.5 | 7.02 | | | | | |
| 10/13/2015 | 1 U | 0.72 J | 200 | 0.95 J | 1.2 | 120 | 2.2 J | 12 | 130 | 1 U | 3.4 | 1 U | 0.157 J | 2.1 | | | 7.48 | | | | | |
| 5/11/2016 | 1.0 U | 0.78 J | 140 | 0.53 J | 0.88 J | 65 | 1.8 J | 5.9 | 61 | 1.0 U | 1.8 | 1.0 U | 0.107 J | 2 | 721 | 1.3 | 7.15 | | | | | |
| 4/13/2017 | 2.5 U | 2.5 U | 86 | 2.5 U | 2.5 U | 43 | 0.44 J | 1.4 | 9.7 | 2.5 U | 0.82 J | 2.5 U | 0.13 | 2.5 | 550 | 0.6 J | 7.46 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-17D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/12/2003 | | 6.3 | | | | 30 | | | | 24 | 8.4 | | | | | | | | | | | |
| 9/22/2003 | | 5.0 U | | | | 3.2 J | | | | 21 | 1.9 J | | | | | | | | | | | |
| 10/29/2003 | | 1.7 J | | | | 5.1 | | | | 23 | 2.3 J | | | | | | | | | | | |
| 5/18/2004 | | 1.1 J | | | | 2.4 J | | | | 9.6 | 1.1 J | | | | | | | | | | | |
| 6/22/2004 | | 18 | | | | 5.0 U | | | | 14 | 1.6 J | | | | | | | | | | | |
| 8/29/2005 | | 0.69 J | 3.7 | 1.0 U | 1.0 U | 1.0 U | | | | 5 | 0.67 J | 1.0 U | | | | | | | | | | |
| 9/22/2006 | 1 U | 1 U | 4 | 1 U | 1 U | 1 U | | | | 4 | 1 U | 2 U | | | | | | | | | | |
| 5/28/2008 | 5 U | 57 | 700 | 1.4 J | 14 | 34 | | | | 260 | 33 | | | | | | | | | | | |
| 5/28/2009 | 50 U | 50 U | 1300 | 50 U | 11 J | 600 | 4.1 | 6 | 80 | 230 | 62 | 50 U | 0.0078 J | | 875 | 18 | | | | | | |
| 10/8/2009 | 50 U | 12 J | 1100 | 2.6 J | 8.6 J | 430 | 4.8 | 6.5 | 85 | 170 | 49 J | 50 U | | 5 | | | | | | | | |
| 7/8/2010 | 5 U | 9.8 | 1000 | 3.6 J | 11 | 490 | 5.7 | 7.8 | 77 | 150 | 64 | 5 U | 0.2 U | | 1090 | 15.7 | | | | | | |
| 6/22/2011 | 5 U | 12 | 250 | 5 U | 4.5 J | 44 | 5.3 | 5 U | 61 | 120 | 12 | 5 U | | | | | 6.92 | | | | | |
| 8/24/2011 | 50 U | 220 | 4400 | 50 U | 86 | 100 | 15 | 1.2 J | 94 | 7200 | 210 | 50 U | | | | | 6.97 | | | | | |
| 11/2/2011 | 8.8 J | 350 | 2200 | 5.5 J | 74 | 52 | 7.2 | 5 U | 70 | 5800 | 150 | 13 U | | | | | 6.99 | | | | | |
| 3/22/2012 | 1.4 J | 6.2 | 450 | 1.7 J | 12 | 43 | 6.7 | 5 U | 65 | 730 | 41 | 5 U | | | | | 7 | | | | | |
| 3/26/2012 | | | | | | | | | | | | | | 3.4 | | | | | | | | |
| 6/22/2012 | 1.2 J | 6.1 | 350 | 1.6 J | 16 | 85 | 6.9 | 5 U | 68 | 660 | 41 | 5 U | | | | | 6.92 | | | | | |
| 9/26/2012 | 5 U | 6.4 | 240 | 1.2 J | 7.9 | 110 | 6.2 | 1.4 J | 51 | 420 | 37 | 5 U | | | | | 6.76 | | | | | |
| 12/10/2012 | 5 UJ | 5.9 | 170 | 1.1 J | 4.6 J | 79 | 6.7 | 1.6 J | 61 | 330 | 35 | 5 UJ | | | | | 6.97 | | | | | |
| 4/2/2013 | 5 U | 3.4 J | 75 | 5 U | 2.8 J | 50 | 4.1 J | 1.4 J | 59 | 210 | 29 | 1.7 J | | | | | 7.41 | | | | | |
| 7/11/2013 | 5 U | 2.6 J | 47 | 5 U | 2.3 J | 47 | 3 J | 2.5 J | 55 | 130 J | 31 | 1.3 J | | | | | 7.04 | | | | | |
| 10/14/2013 | 5 U | 2.3 J | 39 | 5 U | 1.5 J | 50 | 4.2 J | 11 | 110 | 110 | 31 | 2.8 J | | | | | 7.04 | | | | | |
| 12/3/2013 | 5 U | 2.2 J | 33 | 5 U | 1.2 J | 39 | 3.4 J | 4.3 J | 72 | 83 | 29 | 3.6 J | | | | | 6.96 | | | | | |
| 4/11/2014 | 1 UJ | 1.7 | 19 | 1 U | 1.5 | 30 | 2.6 J | 17 | 280 | 50 | 29 | 4.2 | | | | | 6.68 | | | | | |
| 8/15/2014 | 1 U | 1.6 | 18 | 1 U | 1.1 | 35 | 3.2 J | 6.9 | 100 | 45 | 26 | 3.2 | | | | | 6.8 | | | | | |
| 12/5/2014 | 1 U | 1.3 | 13 | 1 U | 0.93 J | 28 | 2.7 J | 13 | 95 | 39 | 22 | 4.3 | | | | | 6.98 | | | | | |
| 4/2/2015 | 1 U | 0.9 J | 9.9 | 1 U | 1 U | 22 | 3.3 J | 8.2 | 130 | 23 | 15 | 3.9 | | | | | 6.8 | | | | | |
| 10/15/2015 | 1 U | 0.67 J | 7.2 | 1 U | 1 U | 12 | 2.9 J | 6.5 | 75 | 11 | 11 | 2.5 | | | | | 8.12 | | | | | |
| 5/11/2016 | 1.0 U | 1.0 U | 4.6 | 1.0 U | 1.0 U | 4.7 | 2.2 J | 1.5 J | 65 | 5.5 | 7.5 | 2.1 | | | | | 7.36 | | | | | |
| 9/27/2016 | 1.0 U | 0.33 J | 5 | 1.0 U | 1.0 U | 8.1 | 1.2 | 2.7 | 38 | 1 | 7.8 | 3 | | | | | 7.18 | | | | | |
| 4/11/2017 | 1.0 U | 1.0 U | 6.7 | 1.0 U | 1.0 U | 15 | 0.94 | 5.3 | 82 | 0.59 J | 5.7 | 1.8 | | | | | 6.86 | | | | | |
| 10/9/2017 | 1.3 U | 1.8 | 24 | 0.81 J | 1.3 | 70 | 2.7 | 23 | 460 | 78 D | 28 | 1.6 | | | | | 6.9 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-18D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/18/2004 | | 5 U | | | | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/22/2004 | | 3.1 J | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/30/2005 | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | | | | 1.0 U | 1.0 U | 1.0 U | | | | | | | | | | |
| 9/22/2006 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | | 1 U | 1 U | 2 U | | | | | | | | | | |
| 5/28/2008 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 5/28/2009 | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 2.0 U | 2 | 1.0 U | 50 | 5.0 U | 5.0 U | 5.0 U | 0.0077 U | | 1540 | 2.1 | | | | | | |
| 7/9/2010 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1.7 J | 5 U | 36 | 5 U | 5 U | 5 U | 0.2 U | | 1870 | 2.8 | | | | | | |
| 8/30/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1.9 J | 5 U | 32 | 5 U | 5 U | 5 U | 0.2 U | 4.4 | 1740 | 2.4 | 6.54 | | | | | |
| 3/28/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1.6 J | 5 U | 43 | 5 U | 5 U | 5 U | 0.2 U | 4.2 | 1750 | 5.4 | 6.76 | | | | | |
| 6/19/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1.2 J | 5 U | 47 | 5 U | 5 U | 5 U | 0.2 U | 4.4 | 1630 | 4.1 | 7.01 | | | | | |
| 9/25/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1.6 J | 5 U | 24 | 5 U | 5 U | 5 U | 0.2 U | 2.4 | 1530 J | 1.9 | 7.14 | | | | | |
| 12/3/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1.5 J | 5 U | 43 | 5 U | 5 U | 5 U | 0.2 U | 3.6 | 1310 | 3.6 | 7.52 | | | | | |
| 4/2/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 29 | 5 U | 5 U | 5 U | 0.2 U | 3.2 | 1290 | 1.6 | 7.16 | | | | | |
| 7/19/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 44 | 5 U | 5 U | 5 U | 0.2 U | 4.7 | 1420 | 5.1 | 6.63 | | | | | |
| 10/18/2013 | 5 U | 5 U | 1.1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 9.2 | 5 U | 5 U | 5 U | 0.4 U | 3.4 | 976 | 0.54 | 7.03 | | | | | |
| 12/4/2013 | 5 U | 5 U | 1.3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 15 | 5 U | 5 U | 5 U | 0.4 U | 4.3 | 860 J | 0.52 | 7.16 | | | | | |
| 4/17/2014 | 1 U | 1 U | 0.93 J | 1 U | 1 U | 1 U | 5 U | 5 U | 20 | 1 U | 1 U | 1 U | 0.4 U | 4.6 | 1150 | 0.87 | 6.95 | | | | | |
| 8/15/2014 | 1 U | 1 U | 1.2 | 1 U | 1 U | 1 U | 5 U | 5 U | 14 | 1 U | 1 U | 1 U | 0.4 U | 4.9 | 1070 | 0.45 | 6.91 | | | | | |
| 12/11/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 26 | 1 U | 1 U | 1 U | 0.4 U | 2.6 | 1370 | 1.3 | 7 | | | | | |
| 3/31/2015 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 50 | 1 UJ | 1 U | 1 U | 0.4 U | 4 | 1470 | 2.5 | 6.82 | | | | | |
| 10/14/2015 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.7 J | 5 U | 57 | 1 U | 1 U | 1 U | 0.4 U | 4 | | | 6.63 | | | | | |
| 5/17/2016 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 5.0 U | 39 | 1.0 U | 1.0 U | 1.0 U | 0.400 U | 5.1 | 1570 | 2.5 | 6.92 | | | | | |
| 4/12/2017 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.71 | 0.50 U | 27 | 1.0 U | 1.0 U | 1.0 U | 0.10 U | 4.3 | 1600 | 1.0 U | 7.25 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-19D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/27/2004 | | 5 U | | | | 4.6 J | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/21/2004 | | 1.3 J | | | | 3.1 J | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/30/2005 | | 1.0 U | 10.3 | 1.0 U | 1.0 U | 7.6 | | | | 1.0 U | 0.61 J | 1.0 U | | | | | | | | | | |
| 9/22/2006 | 1 U | 1 U | 23 | 1 U | 1 U | 14 | 12 U | 17 U | 10 U | 1 U | 1 | 2 U | | | | | | | | | | |
| 5/27/2008 | 5 U | 5 U | 42 | 5 U | 5 U | 6.5 | 5 U | 5 U | 21 | 5 U | 1.3 J | | | | | | | | | | | |
| 5/27/2009 | 5.0 U | 5.0 U | 58 | 5.0 U | 5.0 U | 10 | 1.0 U | 1.0 U | 23 | 5.0 U | 1.7 J | 5.0 U | 3.01 | | 3710 | 1.0 U | | | | | | |
| 7/7/2010 | 5 U | 5 U | 60 | 5 U | 5 U | 11 | 5 U | 5 U | 24 | 5 U | 1.6 J | 5 U | 2.54 | | 3170 | 0.16 U | | | | | | |
| 8/31/2011 | 5 U | 5 U | 39 | 5 U | 5 U | 3.5 J | 5 U | 5 U | 19 | 5 U | 5 U | 5 U | 2.72 | 8 | 3320 | 0.16 U | 5.49 | | | | | |
| 3/23/2012 | 5 U | 5 U | 38 | 5 U | 5 U | 2.1 J | 5 U | 5 U | 25 | 5 U | 5 U | 5 U | 2.23 | 8.8 | 4060 | 0.16 U | | | | | | |
| 6/19/2012 | 5 U | 5 U | 34 | 5 U | 5 U | 1.4 J | 5 U | 5 U | 19 | 5 U | 5 U | 5 U | 2.26 | 8.7 | 3660 | 0.16 U | 6.58 | | | | | |
| 9/21/2012 | 5 UJ | 5 U | 32 | 5 U | 5 U | 1.3 J | 5 U | 5 U | 25 | 5 U | 5 U | 5 U | 2.42 | 6.9 | 2950 J | 0.16 U | | | | | | |
| 12/3/2012 | 5 U | 5 U | 26 | 5 U | 5 U | 1.9 J | 1.9 J | 5 U | 27 | 5 UJ | 5 U | 5 U | 4.15 | 7.9 | 3020 | 0.16 U | 6.69 | | | | | |
| 4/2/2013 | 5 U | 5 U | 22 | 5 U | 5 U | 5 U | 5 U | 5 U | 23 | 5 U | 5 U | 5 U | 2.31 | 8.1 | 3120 | 0.16 U | 7 | | | | | |
| 7/9/2013 | 5 U | 5 U | 19 | 5 U | 5 U | 5 U | 5 U | 5 U | 20 | 5 U | 5 U | 5 U | 2.36 | 9.2 | 3130 | 0.16 U | 7.32 | | | | | |
| 10/9/2013 | 5 U | 5 U | 17 | 5 U | 5 U | 5 U | 5 U | 5 U | 24 | 5 U | 5 U | 5 U | 2.31 | 8.1 | 2670 | 0.16 U | 5.46 | | | | | |
| 12/6/2013 | 5 U | 5 U | 17 | 5 U | 5 U | 5 U | 5 U | 5 U | 22 | 5 U | 5 U | 5 U | 2.19 | 10.9 | 2890 | 0.16 U | 6.42 | | | | | |
| 4/16/2014 | 1 U | 1 U | 8.5 | 0.64 J | 1 U | 0.82 J | 5 U | 5 U | 14 | 1 U | 1 U | 1 U | 0.116 J | 9.6 | 1690 | 0.16 U | 7.06 | | | | | |
| 8/15/2014 | 1 U | 1 U | 11 | 1.2 | 1 U | 0.6 J | 5 U | 5 U | 20 | 1 U | 1 U | 1 U | 1.91 | 11.3 | 2890 | 0.16 U | 6.28 | | | | | |
| 12/5/2014 | 1 U | 1 U | 9.9 | 0.89 J | 1 U | 0.62 J | 5 U | 5 U | 19 | 1 U | 1 U | 1 U | 1.98 | 9.3 | 2890 | 0.16 U | 7.22 | | | | | |
| 3/27/2015 | 1 U | 1 U | 9.4 | 0.82 J | 1 U | 0.52 J | 5 U | 5 U | 9.1 J | 1 U | 1 U | 1 U | 0.333 J | 5.9 | 1960 | 0.16 U | 6.8 | | | | | |
| 10/13/2015 | 1 U | 1 U | 9.9 | 1 U | 1 U | 1 U | 5 U | 1.9 J | 20 | 1 U | 1 U | 1 U | 2.02 | 8.8 | | | 6.51 | | | | | |
| 5/11/2016 | 1.0 U | 1.0 U | 7 | 0.66 J | 1.0 U | 0.51 J | 5.0 U | 5.0 U | 17 | 1.0 U | 1.0 U | 1.0 U | 0.579 | 6.2 | 2870 | 0.10 U | 6.65 | | | | | |
| 9/27/2016 | 1.0 U | 1.0 U | 7.2 | 0.52 J | 1.0 U | 0.41 J | 0.50 U | 0.50 U | 9.1 | 1.0 U | 1.0 U | 1.0 U | 1.7 | 7.1 | | | 6.53 | | | | | |
| 4/11/2017 | 1.0 U | 1.0 U | 4.2 | 0.33 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 6.2 | 1.0 U | 1.0 U | 1.0 U | 0.095 J | 4.8 | 1500 | 1.0 U | 7.36 | | | | | |
| 10/10/2017 | 1.0 U | 1.0 U | 6.8 | 0.45 J | 1.0 U | 1.0 U | 0.25 J | 1.0 U | 22 | 1.0 U | 1.0 U | 1.0 U | 2.1 | 5.8 | | | 6.43 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-20D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/15/2005 | | 30.8 | 1670 | 9.4 | 23.1 | 74.9 | 1.2 | 0.22 | 8.97 | 1830 | 207 | 1.0 U | | 2.5 | 852 | | | | | | | |
| 9/20/2006 | 50 U | 50 U | 14800 | 50 U | 108 | 648 | 12 U | 17 U | 27.5 | 885 | 177 | 100 U | | 2.8 | 1200 | | | | | | | |
| 5/28/2008 | 50 U | 11 J | 5900 | 12 J | 47 J | 380 | | | | 210 | 73 | | | | | | | | | | | |
| 5/27/2009 | 100 U | 26 J | 3100 | 12 J | 22 J | 1300 | 1 | 6 | 31 | 93 J | 66 J | 100 U | 0.0077 U | 2.9 | 558 | 3.1 | | | | | | |
| 10/8/2009 | 50 U | 5.8 J | 1300 | 8.7 J | 11 J | 710 | 1.0 U | 5.6 | 19 | 54 | 40 J | 50 U | | 3.5 | | | | | | | | |
| 7/12/2010 | 5 U | 2.9 J | 960 | 5.6 | 7.9 | 930 | 5 U | 13 | 20 | 42 | 43 | 5 U | 0.2 U | 2.9 | 695 | 3.4 | | | | | | |
| 6/22/2011 | 100 U | 1200 | 24000 | 35 J | 170 | 610 | 1.3 J | 6.8 | 34 | 2900 | 290 | 100 U | | | | | 6.84 | | | | | |
| 8/24/2011 | 100 U | 160 | 24000 | 28 J | 150 | 680 | 1.3 J | 6.7 | 32 | 1900 | 260 | 100 U | | | | | 7.15 | | | | | |
| 11/1/2011 | 50 U | 20 J | 5800 | 13 J | 36 J | 1400 | 5 U | 5.5 | 20 | 550 | 81 | 50 U | | | | | 7.18 | | | | | |
| 3/23/2012 | 130 U | 850 | 13000 | 24 J | 150 | 420 | 1.3 J | 7.2 | 94 | 6200 | 1300 | 130 U | | 8.7 | | | 6.45 | | | | | |
| 6/20/2012 | 15 | 590 | 5200 | 19 | 180 | 160 | | | | 14000 J | 860 | 10 U | | | | | | | | | | |
| 6/26/2012 | | | | | | | 5 U | 3.7 J | 42 | | | | | | | | 7.41 | | | | | |
| 9/25/2012 | 16 J | 390 | 3500 | 12 J | 150 | 160 | 5 U | 2.7 J | 23 | 9800 | 620 | 50 U | | | | | | | | | | |
| 12/11/2012 | 9.5 J | 100 | 2800 | 9.5 J | 240 | 120 | 5 U | 2.9 J | 33 J | 7700 | 410 | 50 U | | | | | 6.88 | | | | | |
| 4/11/2013 | 5.8 J | 47 | 1700 | 8.6 J | 53 | 330 | 1.4 J | 22 | 190 | 3700 | 290 | 13 U | | | | | 7.29 | | | | | |
| 7/18/2013 | 4.2 J | 37 | 2700 | 9.7 J | 65 | 470 | 1.6 J | 16 | 170 | 4000 | 490 | 25 U | | | | | 6.5 | | | | | |
| 10/16/2013 | 25 U | 12 J | 940 | 4.8 J | 27 | 400 | 1.7 J | 23 | 200 | 2000 | 170 | 25 U | | | | | 6.92 | | | | | |
| 12/10/2013 | 1.7 J | 9.1 J | 630 | 4.5 J | 23 | 380 | 2 J | 31 | 260 | 1600 | 150 | 10 U | | | | | 7.13 | | | | | |
| 4/15/2014 | 1.3 | 7.3 | 340 | 4.3 | 25 | 420 | 2.9 J | 52 | 360 | 990 | 120 | 1 U | | | | | 7.3 | | | | | |
| 8/18/2014 | 1.9 J | 12 | 700 | 5.6 | 43 | 800 | 1.5 J | 16 | 150 | 2300 | 230 | 2 U | | | | | 7.03 | | | | | |
| 12/11/2014 | 1.9 | 9.4 | 220 | 3.5 | 13 | 500 | 2.1 J | 31 | 210 | 890 | 96 | 1 U | | | | | 7.06 | | | | | |
| 4/3/2015 | 1.3 J | 7.4 | 150 | 3.3 | 6.2 | 500 | 3.9 J | 70 | 360 | 560 J | 78 | 2 U | | | | | 7.24 | | | | | |
| 10/14/2015 | 1.9 | 9.4 | 170 | 3.7 | 20 | 390 | 2 J | 49 | 230 | 970 | 110 | 1 U | | | | | 6.95 | | | | | |
| 5/12/2016 | 5.0 U | 14 | 450 | 4.1 J | 37 | 740 | 5.0 UJ | 8 J | 57 J | 2000 D | 170 | 5.0 U | | | | | 7.44 | | | | | |
| 9/27/2016 | 50 U | 50 U | 160 | 50 U | 30 J | 440 | 2.6 | 56 | 240 | 1100 | 100 | 50 U | | | | | 6.97 | | | | | |
| 4/12/2017 | 25 U | 25 U | 86 | 25 U | 50 | 480 | 0.51 | 8.4 | 51 | 1000 | 93 | 25 U | | | | | 7.51 | | | | | |
| 10/9/2017 | 10 U | 5.9 J | 110 | 7.2 J | 5.6 J | 430 | 8.8 | 250 | 1600 | 550 | 75 | 10 U | | | | | 6.71 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: MW-21D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/25/2006 | 20 U | 20 U | 3860 | 20 U | 20 U | 242 | 12 U | 17 U | 16.7 | 30 | 22 | 40 U | | 2.6 | 904 | | | | | | | |
| 5/28/2008 | 5 U | 1.1 J | 290 | 1.5 J | 1.7 J | 43 | 1.2 J | 5.7 | 37 | 3.4 J | 2.8 J | | | 3.9 | 1040 J | | | | | | | |
| 5/27/2009 | 5.0 U | 0.67 J | 110 | 0.63 J | 0.67 J | 48 | 1.0 U | 4 | 40 | 2 J | 2.1 J | 5.0 U | 0.623 | 4.8 | 1170 | 1.0 U | | | | | | |
| 7/12/2010 | 5 U | 5 U | 85 | 5 U | 5 U | 38 | 5 U | 2.4 J | 25 | 1.8 J | 1.5 J | 5 U | 3.71 | 4.3 | 1140 | 0.057 J | | | | | | |
| 6/22/2011 | 25 U | 25 U | 2800 | 5 J | 15 J | 75 | 5 U | 1.6 J | 20 | 39 | 7.7 J | 25 U | | | | | 6.93 | | | | | |
| 8/24/2011 | 25 U | 25 U | 5100 | 8.2 J | 21 J | 530 | 5 U | 5.3 | 28 | 140 | 19 J | 25 U | | | | | 7.04 | | | | | |
| 11/1/2011 | 25 U | 6.6 J | 4100 | 10 J | 19 J | 650 | 1.7 J | 6.5 | 35 | 340 | 33 | 25 U | | | | | 7.12 | | | | | |
| 3/23/2012 | 25 U | 7.1 J | 4800 | 8.4 J | 17 J | 610 | 5 U | 6.4 | 40 | 290 | 34 | 25 U | | 0.88 J | | | 6.59 | | | | | |
| 6/22/2012 | 25 U | 15 J | 3600 | 7.9 J | 13 J | 580 | 5 U | 8 | 37 | 310 J | 35 | 25 U | | | | | 6.8 | | | | | |
| 9/18/2012 | 10 U | 11 | 2600 | 9.8 J | 15 | 580 | 2.3 J | 9.7 | 50 | 180 | 32 | 10 U | | | | | 7.26 | | | | | |
| 12/11/2012 | 10 U | 3.1 J | 2200 | 7.3 J | 12 | 1000 | 3.8 J | 12 | 46 J | 240 | 35 | 10 U | | | | | 7.36 | | | | | |
| 4/11/2013 | 5 U | 5.4 | 780 | 5.3 | 7 | 730 | 5 U | 11 | 36 | 260 | 41 | 5 U | | | | | 7.15 | | | | | |
| 7/19/2013 | 5 U | 2.8 J | 380 | 3.3 J | 8.1 | 600 | 5 U | 12 | 30 | 160 | 29 | 5 U | | | | | 8.49 | | | | | |
| 10/16/2013 | 5 U | 4.3 J | 660 | 4.7 J | 6.4 | 690 | 1.4 J | 23 | 120 | 160 | 36 | 5 U | | | | | | | | | | |
| 12/10/2013 | 5 U | 4.2 J | 680 | 3.4 J | 5.6 | 550 | 1.5 J | 19 | 64 | 130 | 29 | 5 U | | | | | 7.13 | | | | | |
| 4/15/2014 | 1 U | 4.6 | 530 | 3.9 | 13 | 450 | 1.7 J | 34 | 200 | 290 | 35 | 1 U | | | | | 7.53 | | | | | |
| 8/15/2014 | 1 U | 3 | 590 | 3.7 | 7.5 | 460 | 5.3 | 15 | 190 | 160 | 32 | 1 U | | | | | 7.8 | | | | | |
| 12/8/2014 | 1 U | 4.6 | 1100 | 5.1 | 12 | 660 | 2.2 J | 23 | 120 | 160 | 39 | 1 U | | | | | 6.87 | | | | | |
| 4/3/2015 | 2 U | 4.4 | 790 | 3.7 | 7.2 | 580 | 1.7 J | 16 | 72 | 86 J | 26 | 2 U | | | | | 8.15 | | | | | |
| 10/14/2015 | 1 U | 1.5 | 410 | 3 | 4.9 | 380 | 3.4 J | 16 | 120 | 47 | 24 | 1 U | | | | | 8.5 | | | | | |
| 5/12/2016 | 1.0 U | 1.9 | 350 D | 3.1 | 4.1 | 460 D | 1.1 J | 11 | 57 | 45 | 23 | 1.0 U | | | | | 7.22 | | | | | |
| 9/27/2016 | 25 U | 25 U | 380 | 25 U | 25 U | 510 | 0.91 | 11 | 55 | 48 | 21 J | 25 U | | | | | 7.35 | | | | | |
| 4/12/2017 | 10 U | 10 U | 250 | 10 U | 10 U | 340 | 0.58 | 10 | 62 | 16 | 15 | 10 U | | | | | 8.33 | | | | | |
| 10/9/2017 | 17 U | 17 U | 710 | 17 U | 17 U | 610 | 1.7 | 31 | 200 | 38 | 23 | 17 U | | | | | 7.1 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR- 3SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/28/2011 | 25 U | 9 J | 7400 | 120 | 11 J | 740 | 11 J | 63 J | 170 J | 25 U | 25 U | 25 U | 44.5 | 1030 | 11.3 J | 0.84 | 5.99 | | | | | |
| 8/25/2011 | 10 U | 10 U | 4000 | 100 | 7 J | 950 | 3.7 J | 30 | 2300 | 10 U | 10 U | 10 U | 131 | 2260 | 3.1 J | 0.67 | 5.87 | | | | | |
| 11/8/2011 | 25 U | 25 U | 2300 | 80 | 25 U | 1400 | 1.6 J | 110 | 8800 | 25 U | 25 U | 25 U | 146 | 1760 | 2.7 J | 0.34 | 6.14 | | | | | |
| 3/23/2012 | 50 UJ | 50 UJ | 50 UJ | 48 J | 50 UJ | 50 UJ | 130 | 40 | 11000 | 50 UJ | 50 UJ | 14 J | 86 | 39.3 | 5 U | 0.16 J | 6.52 | | | | | |
| 6/19/2012 | 5 U | 5 U | 0.81 J | 48 | 5 U | 1.8 J | 42 | 5 U | 13000 | 5 UJ | 5 U | 1.9 J | 73.3 | 838 | 2 J | 0.18 | 6.47 | | | | | |
| 9/21/2012 | 5 UJ | 5 U | 5 U | 7 | 5 U | 5 U | 17 | 5 U | 11000 | 5 U | 5 U | 5 U | 48.7 | 293 | 5 UJ | 0.14 J | 6.38 | | | | | |
| 12/10/2012 | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 99 | 1.2 J | 15000 | 5 UJ | 5 UJ | 5 UJ | 42.7 | 171 | 1.7 J | 0.17 | 6.7 | | | | | |
| 4/4/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 170 | 5 U | 23000 | 5 U | 5 U | 5 U | 37.7 | 69.4 | 276 | 0.39 | 6.5 | | | | | |
| 7/9/2013 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 120 J | 5 U | 20000 | 50 U | 50 U | 50 U | 12.2 | 40.1 | 13.7 | 1.2 | 6.67 | | | | | |
| 10/9/2013 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 170 | 5 U | 16000 | 50 U | 50 U | 50 U | 22.3 | 53.8 | 5 U | 0.66 | 5.38 | | | | | |
| 12/6/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 180 | 5 U | 15000 | 5 U | 5 U | 5 U | 25.8 | 66.1 | 5 U | 0.38 | 6.11 | | | | | |
| 4/11/2014 | 1 UJ | 1 U | 1 U | 1 U | 1 U | 1 U | 140 | 4.6 J | 17000 | 1 U | 1 U | 1 U | 11.3 | 21.8 | 27.1 J+ | 3.6 | 6.23 | | | | | |
| 8/20/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 160 | 1.8 J | 16000 | 1 U | 1 U | 1 U | 20.2 | 26.1 | 5 U | 0.64 | 6.37 | | | | | |
| 12/5/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 130 | 5 U | 16000 | 1 U | 1 U | 1 U | 26.3 | 33.6 | 1.8 J | 0.5 | 6.34 | | | | | |
| 3/26/2015 | 1 U | 1 U | 0.69 J | 1 U | 1 U | 1 U | 100 | 5 U | 23000 | 1 U | 1 U | 1 U | 22.7 | 24.6 | 148 | 0.71 | 6.08 | | | | | |
| 10/21/2015 | 1 U | 1 U | 1.3 | 1 U | 1 U | 0.83 J | 58 | 5 U | 10000 | 1 U | 1 U | 1 U | 26.2 | 32.1 | | | 6.2 | | | | | |
| 5/6/2016 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 63 | 5.0 U | 13000 D | 1.0 U | 1.0 U | 1.0 U | 31.8 | 32.3 | 2.2 J | 0.34 | 6.25 | | | | | |
| 4/13/2017 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 6.9 J | 1.0 UJ | 3400 J | 1.0 U | 1.0 U | 1.0 U | 36 | 38 | 5.0 U | 1.0 U | 6.43 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR- 4SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/28/2011 | 10 U | 19 | 1100 | 11 | 5.5 J | 81 | 2 J | 5.4 | 1500 | 77 | 97 | 3.9 J | 91.7 | 1560 | 17.1 J | 1.6 | 6.01 | | | | | |
| 8/25/2011 | 50 U | 50 U | 1200 | 21 J | 50 U | 120 | 5 U | 5 U | 7800 | 50 U | 50 U | 50 U | 73.1 | 993 | 1.8 J | 0.34 | 6.3 | | | | | |
| 11/9/2011 | 25 U | 25 U | 25 U | 17 J | 25 U | 25 U | 3.5 J | 15 | 12000 | 25 U | 25 U | 25 U | 46.4 | 352 | 2.7 J | 0.19 | 6.23 | | | | | |
| 3/23/2012 | 50 U | 50 U | 50 U | 13 J | 50 U | 50 U | 3.3 J | 5 U | 12000 | 50 U | 50 U | 50 U | 42.6 | 98.6 | 1.6 J | 0.21 | 6.12 | | | | | |
| 6/19/2012 | 5 U | 5 U | 5 U | 13 | 5 U | 5 U | 2.2 J | 5 U | 12000 | 5 U | 5 U | 5 U | 42.7 | 84.7 | 2.2 J | 0.21 | 6.43 | | | | | |
| 9/21/2012 | 5 UJ | 5 U | 5 U | 5.6 | 5 U | 5 U | 2.9 J | 5 U | 11000 | 5 U | 5 U | 5 U | 41.8 | 79.7 | 5 UJ | 0.18 | 6.64 | | | | | |
| 12/10/2012 | 5 UJ | 5 U | 5 U | 1.5 J | 5 U | 5 U | 2.6 J | 5 U | 3500 | 5 U | 5 U | 5 UJ | 42 | 68.3 | 1.8 J | 0.16 J | 6.51 | | | | | |
| 4/4/2013 | 5 U | 6.9 | 1 J | 5 U | 5 U | 5 U | 1.4 J | 5 U | 8100 | 5 U | 5 U | 5 U | 48.2 | 54.6 | 2.8 J | 0.15 J | 6.39 | | | | | |
| 7/9/2013 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 2.5 J | 5 U | 12000 | 50 U | 50 U | 50 U | 46.4 | 52 | 5.2 | 0.29 | | | | | | |
| 10/14/2013 | 5 UJ | 8.4 J | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 1.6 J | 5 U | 9200 | 5 UJ | 5 UJ | 5 UJ | 43.7 | 62.8 | 14.7 | 0.21 | 6.5 | | | | | |
| 12/6/2013 | 5 U | 2.3 J | 5 U | 5 U | 5 U | 5 U | 1.9 J | 5 U | 14000 | 5 U | 5 U | 5 U | 40.1 | 71.9 | 11.9 | 0.23 | 6.22 | | | | | |
| 4/11/2014 | 1 UJ | 1 U | 1 U | 1 U | 1 U | 1 U | 2.9 J | 5 UJ | 17000 J | 1 U | 1 U | 1 U | 27.7 | 58.3 | 165 J+ | 0.67 | 6.22 | | | | | |
| 8/20/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 9.8 J | 5 UJ | 12000 J | 1 U | 1 U | 1 U | 34.3 | 56.1 | 5 U | 0.34 | 6.16 | | | | | |
| 12/5/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2.4 J | 5 UJ | 13000 J | 1 U | 1 U | 1 U | 32.9 | 60.7 | 15.6 | 0.64 | 6.53 | | | | | |
| 3/27/2015 | 1 UJ | 1 UJ | 0.94 J | 0.8 J | 1 UJ | 1.4 J | 5 U | 5 U | 18000 J | 1 UJ | 1 UJ | 1 UJ | 17.9 | 42 | 122 | 3 | 6.2 | | | | | |
| 10/21/2015 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 2.3 J | 5 U | 7700 | 1 UJ | 1 UJ | 1 UJ | 24.3 | 40.3 | | | 6.24 | | | | | |
| 5/6/2016 | 0 R | 0 R | 0 R | 1.2 J | 0 R | 0 R | 3.4 J | 2 J | 13000 D | 0 R | 0.52 J | 0 R | 16.9 | 36.1 | 36.4 | 2.4 J | 6.43 | | | | | |
| 9/28/2016 | 1.0 UJ | 1.0 UJ | 1.0 UJ | 0.85 J | 1.0 UJ | 1.0 UJ | 1.5 J | 2.5 UJ | 3800 J | 1.0 UJ | 0.34 J | 1.0 UJ | 16 | 38 | | | 6.68 | | | | | |
| 4/13/2017 | 1.0 U | 1.0 U | 0.59 J | 2.6 | 1.0 U | 0.85 J | 1.8 J | 2.1 J | 3400 J | 1.0 U | 0.87 J | 1.0 U | 15 | 38 | 82 | 3.8 | 6.7 | | | | | |
| 10/11/2017 | 1.0 U | 1.0 U | 1.0 U | 1.9 | 1.0 U | 1.0 U | 2.1 J | 5.0 UJ | 6600 J | 1.0 U | 0.53 J | 1.0 U | 15 | 41 | | | 6.45 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR- 5SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/5/2011 | 25 U | 25 U | 3100 | 31 | 5.4 J | 350 | 3.3 J | 48 | 3200 | 25 UJ | 25 U | 25 U | 2.53 | 281 | 15 | 26.3 | 5.82 | 5.8E+02 | 1.9E+04 | 4.3E+03 | 1.3E+03 | 6.6E+03 |
| 8/29/2011 | 5 U | 5 U | 42 | 32 | 5 U | 63 | 21 | 610 | 7600 | 5 U | 2.4 J | 5 U | 0.676 | 203 | 12.4 | 49.6 | 6.54 | 5.4E+03 | 2.3E+03 | 1.7E+05 | 6.4E+03 | 7.6E+04 |
| 11/1/2011 | 5 U | 5 U | 2.9 J | 28 | 5 U | 9.4 | 220 | 440 | 14000 | 5 U | 1.9 J | 5 U | 1.5 | 213 | 4.1 J | 8.6 | 6.61 | 2.0E+03 | 1.6E+04 | 6.1E+04 | 2.5E+04 | 1.3E+05 |
| 3/21/2012 | 5 U | 5 U | 43 | 65 | 5 U | 45 | 400 | 450 | 15000 | 5 U | 2.3 J | 1.8 J | 12.1 | 258 | 2.4 J | 4.2 | 5.87 | 2.2E+04 | 2.1E+03 | 3.8E+05 | 2.2E+04 | 3.7E+05 |
| 6/20/2012 | 5 U | 5 U | 5.3 | 56 | 5 U | 11 | 130 | 76 | 12000 | 5 UJ | 1.7 J | 1.9 J | 11.3 | 139 | 5 U | 3.1 | 6.38 | 2.6E+03 | 1.0E+03 | 4.8E+04 | 2.8E+03 | 9.1E+04 |
| 9/19/2012 | 5 U | 5 U | 2.3 J | 4.9 J | 5 U | 16 | 110 | 23 J | 12000 | 5 U | 1.2 J | 2.1 J | 5.4 | 36.4 | 5 UJ | 1.3 | 6.4 | 2.5E+02 | 6.0E+02 | 2.0E+03 | 7.9E+02 | 7.1E+03 |
| 12/4/2012 | 5 U | 5 U | 2.6 J | 5 U | 5 U | 13 | 190 | 20 | 15000 | 5 U | 1.2 J | 5 U | 6.52 | 32.5 | 1.9 J | 1.2 | 6.38 | 3.0E+02 | 4.6E+01 | 6.1E+03 | 3.6E+02 | 1.4E+02 |
| 4/3/2013 | 5 U | 5 U | 72 | 2.6 J | 5 U | 230 | 380 | 400 | 28000 J | 5 U | 5 U | 1.6 J | 11.5 | 12.8 | 276 | 1.7 | 6.68 | 1.3E+04 | 3.4E+02 | 1.1E+05 | 5.9E+03 | 8.7E+02 |
| 7/10/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 1.8 J | 350 | 9.5 | 18000 | 5 U | 1.4 J | 1.4 J | 3.08 | 20.1 | 3.3 J | 3.6 | 6.5 | 1.8E+03 | 1.4E+02 | 1.8E+04 | 2.0E+03 | 3.1E+03 |
| 10/10/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 130 | 1.7 J | 16000 | 5 U | 1.6 J | 5 U | 7.77 | 21.7 | 5 U | 1.7 | 6.16 | 2.0E+03 | 5.9E+02 | 3.2E+04 | 4.3E+03 | 6.0E+02 |
| 12/5/2013 | 5 U | 5 U | 1.3 J | 5 U | 5 U | 2.3 J | 180 | 6.6 | 16000 | 5 U | 1.2 J | 1 J | 10.7 | 29.8 | 9.4 | 1.1 | 6.15 | 1.6E+03 | 7.9E+01 | 4.4E+03 | 8.0E+02 | 3.3E+02 |
| 4/9/2014 | 1 U | 1 U | 3.4 | 3.5 | 1 U | 8 | 800 | 150 | 24000 | 1 U | 1.1 | 1.2 | 7.01 | 12.9 | 174 | 2.4 | 6.08 | 3.4E+03 | 6.6E+01 | 7.8E+03 | 2.5E+01 | 8.3E+03 |
| 8/13/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 220 | 2.9 J | 19000 | 1 U | 1.3 | 1.8 | 7.62 | 20.9 | 5 U | 1.4 | 6.15 | 1.0E+04 | 6.0E+02 | 1.7E+05 | 1.3E+02 | 1.1E+04 |
| 12/3/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 130 | 1.8 J | 18000 | 1 U | 0.61 J | 0.8 J | 13 | 18.5 | 5 U | 0.46 | 5.69 | 1.8E+04 | 3.3E+02 | 1.3E+05 | 3.5E+02 | 5.6E+03 |
| 3/24/2015 | 1 U | 1 U | 4.5 | 0.93 J | 1 U | 13 | 200 | 42 | 10000 J | 1 U | 0.65 J | 1 U | 14.1 | 17 | 73.5 | 0.56 | 6.28 | 2.8E+03 | 1.1E+02 | 1.1E+04 | 2.6E+01 | 1.0E+03 |
| 10/20/2015 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 83 | 1.1 J | 13000 | 1 U | 1 U | 1 U | 9.74 | 21.2 | | | 5.89 | | | | | |
| 5/5/2016 | 1.0 U | 1.0 U | 1.0 U | 0.52 J | 1.0 U | 1.0 U | 190 | 19 | 19000 D | 1.0 U | 1.0 U | 1.0 U | 3.57 | 9 | 25 | 16.2 | 6.31 | 1.4E+03 | 5.5E+03 | 9.7E+04 | 7.0E+01 | 1.8E+04 |
| 4/17/2017 | 1.0 U | 1.0 U | 0.4 J | 1.5 | 1.0 U | 2.9 | 140 | 52 | 9000 | 1.0 U | 0.31 J | 1.0 U | 0.10 U | 4.7 | 24 | 25 | 6.89 | 3.1E+02 | 1.4E+02 | 5.8E+04 | 2.1E+02 | 7.1E+03 |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR- 6SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/5/2011 | 25 UJ | 10 J | 4500 J | 62 J | 8.2 J | 530 J | 3.4 J | 11 J | 810 J | 25 UJ | 22 J | 25 UJ | 97.7 | 1420 | 263 | 1.2 | 5.46 | 1.3E+01 | 1.0E+04 | 1.4E+01 | 5.3E+00 | 9.7E+00 |
| 8/29/2011 | 25 U | 25 U | 2500 | 34 | 25 U | 430 | 5 U | 12 | 6600 | 25 U | 7.3 J | 10 J | 143 | 1730 | 6.3 | 0.49 | 6.26 | 2.4E+03 | 1.5E+04 | 1.4E+04 | 1.3E+03 | 3.6E+03 |
| 11/1/2011 | 5 U | 5 U | 78 | 52 | 5 U | 130 | 6.8 | 250 | 7000 | 5 U | 5.2 | 16 | 97.7 | 982 | 4.7 J | 0.9 | 6.73 | 1.1E+05 | 1.3E+04 | 5.5E+05 | 8.5E+04 | 1.6E+06 |
| 3/22/2012 | 50 UJ | 50 UJ | 530 J | 56 J | 50 UJ | 420 J | 49 | 140 | 13000 | 50 UJ | 50 UJ | 50 UJ | 62.9 | 336 | 45 | 0.91 | 6.26 | 5.6E+04 | 1.0E+04 | 8.8E+05 | 2.8E+04 | 8.5E+05 |
| 6/21/2012 | 50 UJ | 50 UJ | 950 J | 110 J | 50 UJ | 420 J | 94 J | 180 J | 8000 | 50 UJ | 50 UJ | 19 J | 45.4 | 243 | 6.5 J | 3.4 | 6.43 | 2.6E+04 | 3.2E+03 | 8.5E+05 | 8.8E+03 | 6.3E+05 |
| 9/19/2012 | 5 U | 5 U | 3.8 J | 12 | 5 U | 4.4 J | 42 | 5 U | 8600 | 5 U | 5 U | 3.9 J | 45.6 | 150 | 5 UJ | 0.31 | 6.55 | 8.9E+02 | 5.0E+02 | 1.5E+04 | 7.1E+02 | 5.4E+04 |
| 12/4/2012 | 5 U | 5 U | 81 | 13 | 5 U | 74 | 71 | 20 | 13000 | 5 U | 5 U | 2.7 J | 38 | 91 | 53.6 | 1.4 | 6.5 | 1.0E+03 | 4.8E+02 | 2.9E+04 | 4.5E+02 | 3.0E+03 |
| 4/3/2013 | 5 U | 3.6 J | 8900 | 260 | 7.3 | 3000 | 1000 | 660 | 10000 J | 3.6 J | 12 | 5 U | 15.2 | 64.9 | 254 | 18.4 | 6.8 | 3.8E+03 | 1.8E+03 | 5.1E+05 | 1.3E+04 | 4.9E+03 |
| 7/10/2013 | 13 U | 9.3 J | 10000 | 330 | 6.7 J | 3100 | 900 | 670 | 9000 | 13 U | 14 | 13 | 7.15 | 85 | 90.2 | 31.6 | 6.78 | 1.4E+03 | 1.8E+02 | 2.5E+04 | 7.0E+03 | 7.4E+03 |
| 10/10/2013 | 50 U | 50 U | 120 | 36 J | 50 U | 77 | 130 J | 240 J | 9500 J | 50 U | 50 U | 50 U | 7.04 | 88.3 | 4 J | 10 | 6.52 | 1.4E+03 | 4.7E+02 | 1.1E+05 | 3.8E+04 | 1.3E+03 |
| 12/5/2013 | 5 U | 5 U | 800 | 32 | 5 U | 180 | 88 | 74 | 12000 | 5 U | 2.3 J | 3.1 J | 7.06 | 62.9 | 43.5 | 6.3 | 6.47 | 3.2E+03 | 3.2E+02 | 5.6E+04 | 4.6E+04 | 1.1E+04 |
| 4/9/2014 | 5 U | 5 U | 3800 | 90 | 4.8 J | 1200 | 220 J | 220 J | 8300 J | 5 U | 4.5 J | 3.6 J | 7.61 | 48.3 | 143 | 15.7 | 6.36 | 2.5E+03 | 2.4E+02 | 3.2E+04 | 1.0E+03 | 1.7E+04 |
| 8/14/2014 | 5 U | 4.6 J | 3900 | 120 | 5 U | 870 | 240 | 310 | 8500 | 5 U | 6.2 | 5 U | 4.66 | 50.8 | 37.4 | 28.6 | 6.41 | 2.1E+04 | 7.7E+02 | 7.6E+05 | 1.6E+03 | 5.5E+04 |
| 12/3/2014 | 1 U | 1.8 | 2400 | 64 | 1.5 | 590 | 220 J | 330 J | 14000 J | 1 U | 3 | 2.4 | 3.8 | 44.3 | 76.8 | 17.4 | 6.16 | 1.8E+04 | 1.3E+02 | 1.5E+05 | 8.8E+02 | 4.6E+03 |
| 3/24/2015 | 5 U | 11 | 15000 | 250 | 14 | 3700 | 730 | 780 | 17000 J | 5 U | 9.1 | 5 U | 1.53 | 33.2 | 259 | 32.3 | 6.42 | 9.3E+03 | 1.4E+02 | 3.1E+05 | 2.8E+03 | 2.9E+04 |
| 10/20/2015 | 5 UJ | 5 UJ | 1700 J | 57 J | 5 UJ | 500 J | 300 | 280 | 8700 | 5 UJ | 2.7 J | 5 UJ | 1.48 | 40.7 | | | 6.11 | | | | | |
| 5/5/2016 | 0 R | 2.8 J | 4600 DJ | 100 J | 1.5 J | 1100 DJ | 410 D | 280 D | 12000 D | 0 R | 4.4 J | 4.9 J | 3.97 | 32.9 | 125 | 30.5 | 6.44 | 2.1E+04 | 3.9E+03 | 6.0E+05 | 1.4E+03 | 1.0E+05 |
| 9/26/2016 | 17 UJ | 17 UJ | 350 J | 14 J | 17 UJ | 83 J | 47 | 23 | 2100 D | 17 UJ | 17 UJ | 17 UJ | 1.7 | 38 | | | 6.51 | | | | | |
| 4/17/2017 | 20 U | 20 U | 680 | 17 J | 20 U | 280 | 60 | 35 | 6700 | 20 U | 20 U | 20 U | 0.86 | 33 | 47 | 13 | 7.03 | 8.0E+02 | 8.5 U | 5.8E+04 | 1.1E+03 | 3.5E+03 |
| 10/10/2017 | 4.0 UJ | 4.0 UJ | 93 J | 9.5 J | 4.0 UJ | 24 J | 59 J | 96 J | 4800 DJ | 4.0 UJ | 4.0 UJ | 4.0 UJ | 0.21 | 36 | | | 6.71 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR- 9SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/28/2011 | 10 U | 6.6 J | 870 | 22 | 10 U | 190 | 2.8 J | 6.1 | 1700 | 10 U | 10 U | 10 U | 9.48 | 830 | 24.6 J | 18.6 | 5.8 | | | | | |
| 8/26/2011 | 25 U | 95 | 8400 | 38 | 43 | 1100 | 2.7 J | 58 | 4200 | 320 | 230 | 27 | 35.7 | 1290 | 66.5 | 6.4 | 5.71 | | | | | |
| 11/4/2011 | 5 U | 5 U | 26 | 10 | 5 U | 18 | 16 | 78 | 11000 | 5.3 | 44 | 74 | 7.49 | 384 | 6.5 | 11.7 | 6.54 | | | | | |
| 3/23/2012 | 5 U | 1.1 J | 38 | 3.9 J | 5 U | 23 | 35 | 30 | 17000 | 4.4 J | 6.5 | 13 | 0.0153 J | 56.4 | 48.6 | 99.7 | 6.77 | | | | | |
| 6/27/2012 | 50 U | 16 J | 4000 | 19 J | 12 J | 910 | 14 | 170 | 13000 | 73 | 25 J | 20 J | 0.195 J | 172 | 115 J | 34.2 | 6.44 | | | | | |
| 9/21/2012 | 5 UJ | 1.1 J | 300 | 5.2 | 2 J | 150 | 8 | 46 | 12000 | 9.9 | 7.4 | 14 | 0.164 J | 67.1 | 30.6 J | 25.8 | 6.22 | | | | | |
| 12/6/2012 | 5 U | 1.7 J | 350 | 3.3 J | 2.2 J | 130 | 6.6 | 29 | 14000 | 17 | 7.1 | 14 | 0.2 U | 26.6 | 82.4 | 42.7 | 6.42 | | | | | |
| 4/5/2013 | 5 U | 1.5 J | 530 | 3.8 J | 2.3 J | 290 | 50 | 160 | 16000 J | 13 | 6.7 | 4 J | 0.2 U | 13.9 | 172 | 104 | 7.07 | | | | | |
| 7/17/2013 | 5 U | 4.1 J | 1900 | 11 | 8.3 | 560 | 9.8 | 66 | 17000 | 29 | 13 | 4.1 J | 0.2 U | 19.4 | 97.6 | 60.9 | 6.67 | | | | | |
| 10/17/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 1.6 J | 8.1 | 6.8 | 13000 | 5 U | 5 U | 2.6 J | 0.462 | 13.9 | 30.8 | 28.3 | 6.5 | | | | | |
| 12/10/2013 | 5 U | 5 U | 2.1 J | 5 U | 5 U | 5.3 | 25 | 9.8 | 22000 | 5 U | 5 U | 1.6 J | 0.4 U | 10.1 | 32.2 | 37.6 | 6.84 | | | | | |
| 4/14/2014 | 1 U | 1 U | 1.6 | 1 U | 1 U | 3.2 | 15 | 7.3 | 4700 | 1 U | 1 U | 1 U | 0.212 J | 6.1 | 219 | 7.9 | 7.25 | | | | | |
| 8/20/2014 | 1 U | 1 U | 3.4 | 0.78 J | 1 U | 4.2 | 20 | 16 | 18000 | 1 U | 1.3 | 1 U | 0.4 U | 15.7 | 27.1 | 74.5 | 6.71 | | | | | |
| 12/8/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1.4 | 20 | 8.8 | 19000 | 1 U | 1 U | 2.1 | 0.0716 J | 10.1 | 57.2 J | 29.6 | 6.53 | | | | | |
| 3/27/2015 | 1 U | 1 U | 3.2 | 0.54 J | 1 U | 8.1 | 40 | 26 | 14000 J | 1 U | 0.77 J | 1 U | 0.67 J | 9.4 | 304 | 12.5 | 6.86 | | | | | |
| 10/20/2015 | 1 U | 1 U | 7.3 J | 0.82 J | 1 U | 6.1 J | 6.1 | 18 | 11000 J | 1 U | 1.2 | 2.1 J | 0.143 J | 14.7 | | | 5.79 | | | | | |
| 5/6/2016 | 1.0 U | 1.0 U | 2.8 | 1.0 U | 1.0 U | 3.2 | 17 | 7.2 | 8500 D | 1.0 U | 0.53 J | 1.0 U | 0.400 U | 4.8 | 185 | 28.9 | 7.51 | | | | | |
| 4/13/2017 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.8 | 5.8 | 4.6 | 1900 | 1.0 U | 0.32 J | 1.0 U | 0.065 J | 2.8 | 180 | 11 | 7.27 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR-10SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/25/2011 | | | | | | | | | | | | | | | | | 6.08 | | | | | |
| 6/28/2011 | 5 UJ | 3.1 J | 270 J | 3.6 J | 2.6 J | 37 J | 1.5 J | 3.5 J | 690 J | 14 J | 42 J | 1.9 J | 98.2 | 1650 | 287 J | 1.7 | | | | | | |
| 8/26/2011 | 50 U | 50 U | 940 | 11 J | 50 U | 210 | 1.2 J | 13 | 5200 | 28 J | 73 | 15 J | 113 | 1690 | 17.6 | 0.62 | 4.79 | | | | | |
| 11/4/2011 | 5 U | 5 U | 3.2 J | 5.9 | 5 U | 5.1 | 11 | 18 | 13000 | 5 U | 9.5 | 39 | 62.6 | 616 | 4 J | 0.14 J | 6.86 | | | | | |
| 3/23/2012 | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 9.5 | 5 U | 9500 | 50 UJ | 50 UJ | 28 J | 25.8 | 154 | 38.5 | 1.2 | 6.32 | | | | | |
| 6/27/2012 | 5 UJ | 5 UJ | 5 UJ | 2.5 J | 5 UJ | 5 UJ | 6.3 J | 5 UJ | 11000 | 5 UJ | 5 UJ | 12 J | 14.6 | 102 | 27.8 J | 3.1 | 6.9 | | | | | |
| 9/21/2012 | 5 UJ | 5 U | 5 U | 2.8 J | 5 U | 5 U | 14 | 5 U | 7000 | 5 U | 5 U | 15 | 12 | 83.8 | 5 UJ | 1 | 6.93 | | | | | |
| 12/7/2012 | 5 U | 5 U | 3.4 J | 5 U | 5 U | 13 | 11 | 16 J | 12000 | 5 U | 5 U | 5.2 J | 8.93 | 39.5 | 34.1 | 1.6 | 6.47 | | | | | |
| 4/5/2013 | 5 U | 5 U | 5 U | 0.84 J | 5 U | 5 U | 30 | 1.2 J | 18000 J | 5 U | 5 U | 12 | 4 | 31.2 | 226 | 13.5 | 6.48 | | | | | |
| 7/17/2013 | 5 U | 5 U | 5 U | 0.84 J | 5 U | 5 U | 11 | 5 U | 10000 | 5 U | 1.1 J | 5.5 | 1.96 | 33.7 | 107 | 25.6 | 6.66 | | | | | |
| 10/8/2013 | 50 U | 50 U | 55 | 50 U | 50 U | 170 | 19 | 130 | 16000 | 50 U | 50 U | 50 U | 1.94 | 30.8 | 16.1 | 16.9 | 6.5 | | | | | |
| 12/10/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 15 | 5 U | 17000 | 5 U | 5 U | 2.5 J | 4.63 | 28.1 | 73.3 | 6.7 | 6.56 | | | | | |
| 4/16/2014 | 1 U | 1 U | 1 U | 3.3 | 1 U | 1.5 | 65 | 200 | 21000 | 1 U | 3 | 5 | 0.655 | 14.6 | 70.8 | 100 | 6.83 | | | | | |
| 8/20/2014 | 1 U | 1 U | 1 U | 2.6 | 1 U | 1.2 | 34 | 46 | 10000 | 1 U | 0.94 J | 3.9 | 1.17 | 32.8 | 32.9 | 23.4 | 6.65 | | | | | |
| 12/8/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 8.3 | 5 U | 12000 | 1 U | 1 U | 1 U | 3.7 | 12.4 | 42.5 | 1.8 | 6.64 | | | | | |
| 3/27/2015 | 1 U | 1 U | 290 | 3 | 1.3 | 290 | 30 | 120 | 15000 J | 1.1 | 6.3 | 1.3 | 14.2 | 18 | 363 | 7 | 7.19 | | | | | |
| 10/16/2015 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 4.8 J | 2.5 J | 6600 | 1 U | 1 U | 1 U | 2.63 | 16.1 | | | 7.11 | | | | | |
| 5/6/2016 | 1.0 U | 1.0 U | 77 | 3.9 | 1.0 U | 65 | 55 | 200 | 18000 D | 1.0 U | 5.3 | 6.4 | 2.25 | 13.4 | 153 | 64 | 7.33 | | | | | |
| 9/28/2016 | 50 U | 50 U | 1100 | 50 U | 50 U | 450 | 13 | 57 | 4100 | 50 U | 50 U | 50 U | 0.79 | 15 | | | 6.72 | | | | | |
| 4/14/2017 | 1.0 U | 1.0 U | 1.2 | 0.93 J | 1.0 U | 3.1 | 12 | 27 | 5000 | 1.0 U | 0.44 J | 2.4 | 1.5 | 14 | 160 | 45 | 6.77 | | | | | |
| 10/10/2017 | 4.0 U | 4.0 U | 91 | 3.5 J | 4.0 U | 120 | 34 | 120 | 6900 D | 4.0 U | 2.7 J | 4.0 U | 0.44 | 15 | | | 6.51 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR-13SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/30/2011 | 10 U | 14 | 900 | 10 | 7.8 J | 210 | 1.7 J | 12 | 240 | 35 | 150 | 2.8 J | 121 | 1710 | 357 J | 1.4 J | 5.49 | 3.7 U | 22.2 U | 3.7 U | 3.7 U | 3.7 U |
| 8/29/2011 | 50 U | 50 U | 460 | 8.6 J | 50 U | 160 | 5 U | 23 | 4500 | 50 U | 95 | 47 J | 135 | 1830 | 17 | 0.67 | 6.27 | 3.3E+02 | 1.0E+04 | 1.6E+04 | 1.5E+04 | 1.3E+04 |
| 11/2/2011 | 25 U | 25 U | 66 | 6.3 J | 25 U | 59 | 1.3 J | 23 | 8300 | 25 U | 25 | 43 | 102 | 1020 | 2.5 J | 0.42 | 6.7 | 1.5E+02 | 1.2E+03 | 4.3E+04 | 9.2E+04 | 6.4E+04 |
| 3/22/2012 | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 8.6 | 21 | 6800 | 50 UJ | 50 UJ | 62 J | 70.6 | 233 | 19 | 1.3 | 6.27 | 3.6E+02 | 7.6E+03 | 7.0E+05 | 4.9E+04 | 3.2E+05 |
| 6/21/2012 | 5 U | 5 U | 0.91 J | 11 | 5 U | 5 U | 7.4 | 6.8 | 7700 | 5 UJ | 6.9 | 44 | 51 | 192 | 14.2 J | 0.63 | 6.49 | 1.4E+02 | 3.0E+03 | 1.0E+05 | 7.1E+03 | 8.0E+04 |
| 9/20/2012 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 3.3 J | 5 U | 6800 | 25 U | 25 U | 18 J | 53.3 | 146 | 5 U | 0.21 | 6.39 | 2.0E+01 | 6.4E+02 | 1.2E+04 | 1.4E+03 | 1.3E+04 |
| 12/4/2012 | 5 U | 5 U | 5 U | 2.2 J | 5 U | 5 U | 4.3 J | 5 U | 13000 | 5 U | 5 U | 16 | 37 | 95.4 | 14.6 | 0.79 | 6.93 | 7.0E+00 | 1.2E+02 | 1.1E+03 | 5.2E+01 | 8.2E+00 |
| 4/4/2013 | 5 U | 5 U | 5 U | 1.8 J | 5 U | 5 U | 7.7 | 5.2 | 15000 | 5 U | 1.9 J | 17 | 25.5 | 54.9 | 50 | 11.4 | 6.58 | 2.5E+01 | 1.6E+03 | 6.1E+03 | 7.0E+02 | 1.6E+01 |
| 7/15/2013 | 5 U | 1.2 J | 5 U | 1.1 J | 5 U | 5 U | 1.9 J | 1.1 J | 8200 | 5 U | 5 U | 13 | 18.7 | 54.8 | 3.5 J | 6 | 6.6 | 1.4E+02 | 3.7E+02 | 1.3E+02 | 4.7E+01 | 5.9E+00 |
| 10/10/2013 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 2.7 J | 1.9 J | 12000 | 50 U | 50 U | 50 U | 20.1 | 51.3 | 13.4 | 4.5 | 6.4 | 5.7E+00 | 1.0E+03 | 1.1E+03 | 2.8E+02 | 8.2E+00 |
| 12/4/2013 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 3.1 J | 5 U | 12000 | 25 U | 25 U | 6.7 J | 23.1 | 56.9 | 2.5 J | 1.6 | 6.58 | 1.4E+00 | 3.0E+02 | 5.3E+02 | 2.2E+01 | 4.3E+01 |
| 4/8/2014 | 1 U | 1 U | 1 U | 0.94 J | 1 U | 0.86 J | 17 | 17 | 17000 | 1 U | 2 | 6.8 | 13 | 32.1 | 176 | 10 | 6.45 | 1.4E+01 | 4.3E+02 | 5.2E+02 | 6.5E+00 | 4.6E+02 |
| 8/13/2014 | 1 U | 1 U | 1 U | 0.79 J | 1 U | 0.53 J | 14 | 3.4 J | 16000 | 1 U | 1 U | 7.4 | 8.12 | 45.9 | 28.3 | 17.7 | 6.25 | 2.8E+01 | 4.3E+02 | 1.3E+04 | 1.8E+01 | 5.2E+02 |
| 12/8/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 6 | 5 U | 14000 | 1 U | 1 U | 3.2 | 14.7 | 41.1 | 211 | 1.4 | 6.26 | 1.6E+01 | 6.7E+02 | 2.9E+03 | 2.3E+01 | 1.9E+01 |
| 3/24/2015 | 1 U | 1 U | 1.3 | 0.84 J | 1 U | 2.5 | 30 | 17 | 18000 J | 1 U | 1.3 | 4.3 | 10.5 | 26.9 | 211 | 6.1 | 6.35 | 7.8E+01 | 8.1E+02 | 1.5E+04 | 1.2E+02 | 7.4E+02 |
| 10/16/2015 | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 2 J | 1.7 J | 10000 | 20 U | 20 U | 20 U | 13.4 | 34.1 | | | 6.24 | | | | | |
| 5/5/2016 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.5 | 1.4 J | 18000 D | 1.0 U | 1.0 U | 1.3 | 8.01 | 24.3 | 8.1 | 13.8 | 6.65 | 1.4E+01 | 3.4E+03 | 1.6E+04 | 3.6E+01 | 1.6E+03 |
| 4/17/2017 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.63 J | 1.3 | 0.4 J | 6400 | 1.0 U | 0.28 J | 0.73 J | 7.5 | 22 | 69 | 6.5 | 6.79 | 2.9E+00 | 4.9 U | 7.3E+02 | 2.9E+01 | 2.2E+02 |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR-14SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/30/2011 | 10 U | 10 U | 450 | 2.9 J | 10 U | 17 | 1.5 J | 2.4 J | 6300 | 10 U | 10 U | 10 U | 136 | 2030 J | 11 J | 0.52 J | 5.28 | 7.4E+00 | 5.3E+03 | 4.1 J | 4.3 U | 4.3 U |
| 8/23/2011 | | | | | | | | | | | | | | | | | 6.43 | | | | | |
| 8/25/2011 | 50 U | 50 U | 350 | 50 U | 50 U | 50 U | 5 UJ | 5 UJ | 5500 J | 50 U | 50 U | 50 U | 122 | 1870 | 2.1 J | 0.15 J | | 1.9E+02 | 1.1E+04 | 9.7E+02 | 3.2E+02 | 4.1E+03 |
| 11/2/2011 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 5 UJ | 1.9 J | 9300 | 25 U | 25 U | 25 U | 76.5 | 426 | 3.1 J | 0.12 J | 6.97 | 5.3E+02 | 2.4E+03 | 5.0E+04 | 1.4E+04 | 2.0E+05 |
| 3/21/2012 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 1.2 J | 5 U | 8500 | 50 U | 50 U | 50 U | 68.2 | 193 | 33.3 J | 0.11 J | 6.07 | 1.1E+03 | 1.5E+04 | 1.8E+05 | 2.6E+04 | 3.1E+05 |
| 6/25/2012 | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 4.1 J | 2.3 J | 13000 | 50 UJ | 50 UJ | 50 UJ | 52.6 | 171 | 240 | 1.4 | 6.67 | 4.1E+01 | 1.9E+03 | 1.7E+04 | 9.9E+02 | 3.0E+04 |
| 9/20/2012 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 2.6 J | 5 U | 7700 | 50 U | 50 U | 50 U | 40.1 | 162 | 51.9 | 2.7 | 6.8 | 1.1E+01 | 5.0E+02 | 3.9E+03 | 2.5E+02 | 4.3E+03 |
| 12/5/2012 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 2.5 J | 2.6 J | 12000 | 25 U | 25 U | 25 U | 38.3 | 143 | 197 | 4.8 | 6.24 | 9.7E+01 | 2.7E+02 | 2.5E+03 | 2.6E+02 | 1.7E+03 |
| 4/4/2013 | 5 U | 5 U | 5 U | 0.86 J | 5 U | 5 U | 5.8 | 5.2 | 15000 | 5 U | 5 U | 5 U | 17.9 | 68.1 | 231 | 7.4 | 6.6 | 7.4E+01 | 2.1E+03 | 1.1E+04 | 9.9E+02 | 5.1E+01 |
| 7/16/2013 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 5.8 | 6.9 | 13000 | 25 U | 25 U | 25 U | 5.25 | 101 | 328 | 13.4 | 6.68 | 1.4E+02 | 5.3E+02 | 1.7E+03 | 1.4E+02 | 1.3E+02 |
| 10/10/2013 | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 50 UJ | 14 J | 14 J | 12000 J | 50 UJ | 50 UJ | 50 UJ | 5.14 | 79.8 | 19.6 | 8.4 | 6.58 | 3.3E+02 | 1.2E+03 | 6.2E+03 | 6.6E+02 | 1.0E+02 |
| 12/4/2013 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 8.1 | 6.7 | 12000 | 25 U | 25 U | 25 U | 3.63 | 83.1 | 265 J | 33.5 | 6.61 | 1.6E+03 | 9.2E+02 | 7.8E+03 | 2.0E+02 | 1.4E+03 |
| 4/9/2014 | 1 U | 1 U | 1 U | 0.62 J | 1 U | 1.4 | 8.3 J | 5.1 J | 15000 J | 1 U | 1 U | 1 U | 2.84 | 81.8 | 48.9 | 37.5 | 6.62 | 5.7E+02 | 7.4E+03 | 7.1E+02 | 4.1E+01 | 5.1E+02 |
| 8/14/2014 | 1 U | 1 U | 3.9 | 1 U | 1 U | 14 | 9.7 | 19 | 18000 | 1 U | 1 U | 1 U | 2.23 | 52 | 130 | 21.2 | 6.19 | 8.7E+02 | 2.8E+02 | 4.3E+04 | 2.0E+01 | 2.6E+03 |
| 12/3/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1.2 | 4.7 J | 1.8 J | 16000 | 1 U | 1 U | 1 U | 4.45 | 16.5 | 277 | 32.9 | 6.43 | 1.4E+02 | 5.7E+02 | 1.5E+04 | 1.3E+01 | 3.5E+02 |
| 3/24/2015 | 1 U | 1.3 | 14 | 1 U | 1 U | 10 | 33 | 16 | 16000 J | 1 U | 1 U | 1 U | 1.28 | 33.1 | 159 | 61.7 | 7.14 | 1.4E+02 | 3.9E+02 | 3.5E+03 | 1.5E+01 | 2.8E+02 |
| 10/19/2015 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2.1 J | 5 U | 9800 | 1 U | 1 U | 1 U | 2.04 | 14.3 | | | 5.94 | | | | | |
| 5/5/2016 | 1.0 U | 1.0 U | 2.1 | 1.0 U | 1.0 U | 4.1 | 2 J | 5.8 | 16000 D | 1.0 U | 1.0 U | 1.0 U | 1.79 | 8.5 | 189 | 12.4 | 6.9 | 2.8E+01 | 1.6E+04 | 4.4E+03 | 9.7E+00 | 4.1E+02 |
| 9/26/2016 | 1.0 U | 1.0 U | 0.28 J | 1.0 U | 1.0 U | 0.65 J | 0.81 | 1.5 | 5800 D | 1.0 U | 1.0 U | 1.0 U | 1.6 | 13 | | | 6.65 | | | | | |
| 4/17/2017 | 1.0 U | 1.0 U | 16 | 1.0 U | 1.0 U | 30 | 1.1 | 6.9 | 3500 | 1.0 U | 1.0 U | 1.0 U | 0.74 | 11 | 93 | 15 | 7.31 | 4.7E+00 | 5.3 U | 1.4E+03 | 2.1E+01 | 1.2E+02 |
| 10/10/2017 | 1.0 U | 1.0 U | 0.79 J | 1.0 U | 1.0 U | 1.8 | 4.5 | 11 | 4000 | 1.0 U | 1.0 U | 1.0 U | 1.5 | 5.6 | | | 12.54 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR-15SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/28/2011 | 5 U | 4.6 J | 120 | 2.4 J | 5 U | 50 | 3 J | 7.2 J | 1900 J | 5 U | 5 U | 5 U | 167 | 2190 | 11 J | 0.5 | 6.5 | | | | | |
| 8/26/2011 | 50 U | 50 U | 180 | 50 U | 50 U | 58 | 5 UJ | 2.2 J | 7200 J | 50 U | 50 U | 50 U | 167 | 2060 | 1.9 J | 0.12 J | 5.15 | | | | | |
| 11/7/2011 | 25 U | 25 U | 25 U | 4.3 J | 25 U | 25 U | 2.5 J | 8.2 J | 9000 | 25 U | 25 U | 25 U | 106 | 682 | 5 U | 0.16 U | 6.75 | | | | | |
| 3/28/2012 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 3.6 J | 5 U | 8200 | 50 U | 50 U | 50 U | 95.7 | 270 | 2.2 J | 0.071 J | 6.51 | | | | | |
| 6/19/2012 | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | 1.7 J | 5 U | 8300 | 5 U | 5 U | 5 U | 67.3 | 267 | 5 U | 0.16 U | 6.64 | | | | | |
| 9/21/2012 | 5 UJ | 5 U | 5 U | 5 U | 5 U | 5 U | 2.3 J | 5 U | 11000 | 5 U | 5 U | 5 U | 68.8 | 237 | 5 UJ | 0.16 U | 6.98 | | | | | |
| 12/11/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1.8 J | 5 U | 11000 J | 5 U | 5 U | 5 U | 76.3 | 250 | 5 U | 0.16 U | 6.98 | | | | | |
| 4/8/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2.3 J | 5 U | 17000 | 5 U | 5 U | 5 U | 78.6 | 177 | 5 U | 0.16 U | 6.79 | | | | | |
| 7/19/2013 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 1.4 J | 5 U | 10000 | 50 U | 50 U | 50 U | 71.4 | 173 | 5 U | 0.055 J | 6.54 | | | | | |
| 10/9/2013 | 250 UJ | 250 UJ | 250 UJ | 250 UJ | 250 UJ | 250 UJ | 1.1 J | 5 U | 14000 | 250 UJ | 250 UJ | 250 UJ | 71.3 | 171 | 5 U | 0.16 U | 6.51 | | | | | |
| 12/9/2013 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 2.2 J | 5 U | 11000 | 50 U | 50 U | 50 U | 72.7 | 170 | 5 U | 0.16 U | 6.75 | | | | | |
| 4/15/2014 | 10 UJ | 10 UJ | 10 UJ | 10 UJ | 10 UJ | 10 UJ | 1.9 J | 5 UJ | 15000 J | 10 UJ | 10 UJ | 10 UJ | 69.8 | 120 | 7.4 | 0.078 J | 6.6 | | | | | |
| 8/20/2014 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 7.6 J | 5 UJ | 11000 J | 10 U | 10 U | 10 U | 66 | 136 | 5 U | 0.069 J | 6.34 | | | | | |
| 12/2/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2.5 J | 5 UJ | 11000 J | 1 U | 1 U | 1 U | 67.9 | 141 | 2.1 J | 0.16 U | 5.85 | | | | | |
| 3/27/2015 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 5 U | 5 U | 19000 J | 1 UJ | 1 UJ | 1 UJ | 62.7 | 93.1 | 5.1 | 0.12 J | 7.22 | | | | | |
| 10/19/2015 | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 1.3 J | 5 U | 9100 | 5 UJ | 5 UJ | 5 UJ | 60.2 | 99 | | | 6.8 | | | | | |
| 5/13/2016 | 0 R | 0 R | 0 R | 0 R | 0 R | 0 R | 2.7 J | 5.0 U | 12000 D | 0 R | 0 R | 0 R | 55.5 | 83.6 | 3 J | 0.13 J | 6.8 | | | | | |
| 4/13/2017 | 1.0 U | 1.0 U | 0.38 J | 1.0 U | 1.0 U | 1.0 U | 0.72 J | 0.15 J | 4400 J | 1.0 U | 1.0 U | 1.0 U | 53 | 69 | 13 | 1.0 U | 6.96 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: OR-18SM**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/28/2011 | 5 U | 2.3 J | 370 | 6.6 | 5 U | 180 | 5.5 | 20 | 2800 | 5 U | 1.3 J | 5 U | 21.2 | 549 | 968 J | 27 | 6.84 | | | | | |
| 8/26/2011 | 50 U | 50 U | 390 | 50 U | 50 U | 150 | 2.2 J | 14 | 7800 | 50 U | 50 U | 50 U | 0.767 | 485 | 600 | 89.4 | 6.27 | | | | | |
| 11/8/2011 | 5 U | 5 U | 17 | 2.1 J | 5 U | 29 | 3.7 J | 26 | 15000 | 5 U | 5 U | 5 U | 0.0159 J | 62.1 | 581 J | 92.8 | 6.69 | | | | | |
| 3/20/2012 | 5 U | 5 U | 3.4 J | 3.3 J | 5 U | 13 | 8.8 | 28 | 12000 | 5 U | 5 U | 5 U | 0.0529 J | 64.9 | 348 J | 44.3 | 6.15 | | | | | |
| 6/19/2012 | 5 U | 5 U | 9.4 | 3.7 J | 5 U | 22 | 14 | 38 | 17000 | 5 U | 5 U | 5 U | 0.0597 J | 105 | 280 | | 6.49 | | | | | |
| 9/21/2012 | 5 UJ | 5 U | 9.3 | 4.1 J | 5 U | 30 | 18 | 190 | 7900 | 5 U | 5 U | 5 U | 0.2 U | 88.1 | 255 J | 81 | 6.26 | | | | | |
| 12/11/2012 | 5 U | 5 U | 160 | 7 | 5 U | 210 | 12 | 340 | 14000 J | 5 U | 5 U | 5 U | 0.2 U | 27.4 | 257 | 68.8 | 6.89 | | | | | |
| 4/8/2013 | 5 U | 5 U | 16 | 2.3 J | 5 U | 22 | 23 | 27 | 16000 | 5 U | 5 U | 5 U | 0.2 U | 22.3 | 226 | 29.6 | 6.9 | | | | | |
| 7/12/2013 | 5 U | 5 U | 5.7 | 1.4 J | 5 U | 14 | 18 | 26 | 11000 | 5 U | 5 U | 5 U | 0.2 U | 5.7 | 398 | 32.6 | 6.75 | | | | | |
| 10/9/2013 | 5 U | 5 U | 78 | 2.9 J | 5 U | 81 | 20 | 140 | 13000 | 5 U | 5 U | 5 U | 0.4 U | 14.6 | 213 | 67.5 | 6.42 | | | | | |
| 12/3/2013 | 5 U | 5 U | 16 | 1.5 J | 5 U | 33 | 15 | 52 | 17000 | 5 U | 5 U | 5 U | 0.4 U | 21.2 J | 121 | 70.8 | 6.44 | | | | | |
| 4/8/2014 | 1 U | 1 U | 43 | 1.7 | 1 U | 35 | 21 | 94 | 19000 | 1 U | 1 U | 1 U | 0.4 U | 11.5 | 274 | 46.9 | 6.84 | | | | | |
| 8/19/2014 | 1 U | 1 U | 11 | 0.8 J | 1 U | 12 | 18 | 38 | 14000 | 1 U | 1 U | 1 U | 0.4 U | 7.6 | 261 | 51.1 | 6.97 | | | | | |
| 12/9/2014 | 1 U | 1 U | 2.6 | 0.79 J | 1 U | 9.9 | 12 | 41 | 18000 | 1 U | 1 U | 1 U | 0.4 U | 13.2 | 85.9 | 53.8 | 6.63 | | | | | |
| 3/26/2015 | 1 U | 1 U | 18 | 0.99 J | 1 U | 19 | 40 | 36 | 16000 J | 1 U | 1 U | 1 U | 0.4 U | 4.4 | 414 | 20.4 | 7.23 | | | | | |
| 10/15/2015 | 1 U | 1 U | 2.3 | 1 U | 1 U | 7.7 | 5.4 | 20 | 8100 | 1 U | 1 U | 1 U | 0.4 U | 7.3 | | | 6.78 | | | | | |
| 5/6/2016 | 1.0 U | 1.0 U | 5.1 | 1.5 | 1.0 U | 1.0 U | 16 | 40 | 14000 D | 1.0 U | 1.0 U | 1.0 U | 0.400 U | 6.6 | 189 | 52 | 7.09 | | | | | |
| 9/26/2016 | 1.0 UJ | 1.0 UJ | 13 J | 1.1 J | 1.0 UJ | 22 J | 2.2 J | 7.1 J | 3700 DJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 0.100 U | 5.1 | | | 6.47 | | | | | |
| 4/14/2017 | 2.5 U | 2.5 U | 140 | 3.8 | 2.5 U | 130 | 6.9 | 39 | 5900 | 2.5 U | 2.5 U | 2.5 U | 0.10 U | 10 | 390 | 53 | 6.9 | | | | | |
| 10/11/2017 | 10 U | 10 U | 230 | 10 U | 10 U | 90 | 6.6 | 36 | 7500 | 10 U | 10 U | 10 U | 0.100 U | 5.6 | | | 6.81 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 1D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/15/2008 | 930 J | 180000 | 36000 | 5.0 U | 5.0 U | 2100 | 5.1 | 19 | 120 | 5.0 U | 5.0 U | 5.0 U | | 11.8 | 1460 | | | | | | | |
| 7/25/2008 | 280 J | 17000 J | 82000 J | 200 J | 260 J | 3900 J | 3.8 J | 16 J | 68 J | 2500 UJ | 2500 UJ | 2500 UJ | | 22.4 J | 2200 J | | | | | | | |
| 10/1/2008 | 5000 U | 38000 | 110000 | 1900 J | 310 J | 2200 | 14 | 23 | 230 | 5000 U | 5000 U | 5000 U | | 33.1 | 1210 | | | | | | | |
| 12/11/2008 | 5.0 U | 14000 | 130000 J | 1500 J | 280 J | 4800 | 18 | 25 | 200 | 5.0 U | 5.0 U | 5.0 U | | 44.5 | 1530 | | | | | | | |
| 6/2/2009 | 5000 U | 53000 | 97000 | 5000 U | 5000 U | 3400 | 18 | 23 | 190 | 5000 U | 5000 U | 5000 U | 0.0661 J | 49.3 | 1380 | 63.9 | | | | | | |
| 10/8/2009 | 5000 U | 64000 | 100000 | 5000 U | 5000 U | 5200 | 23 | 30 | 210 | 5000 U | 5000 U | 5000 U | 0.0317 U | 22.9 | 1350 | 56.3 | | | | | | |
| 7/13/2010 | 500 U | 8800 | 78000 | 110 J | 180 J | 8800 | 26 | 54 | 170 | 500 U | 500 U | 500 U | 0.2 U | 10.4 | 1820 J | 20.4 | | | | | | |
| 6/23/2011 | 150 J | 22000 | 42000 | 500 U | 130 J | 1900 | 5 J | 26 | 64 | 230 J | 500 U | 500 U | 0.606 | 7.9 | 1580 | 2.5 | 7.1 | | | | | |
| 8/23/2011 | 250 U | 1100 | 49000 | 85 J | 130 J | 3300 | 10 | 80 | 890 | 55 J | 250 U | 250 U | 0.086 J | 26 | 1470 J | 68.9 | 7.45 | | | | | |
| 11/9/2011 | 45 J | 25000 | 22000 | 250 U | 58 J | 550 | 5 | 28 | 83 | 120 J | 250 U | 250 U | 0.157 J | 36.5 | 664 | 44.7 | 6.86 | | | | | |
| 3/28/2012 | 100 U | 2100 | 19000 | 36 J | 49 J | 1200 | 3.9 J | 34 | 160 | 150 | 48 J | 100 U | 0.2 U | 6.2 | 900 | 36.9 | 6.95 | | | | | |
| 6/26/2012 | 100 U | 1900 | 26000 | 60 J | 71 J | 2100 | 4.9 J | 61 | 2200 | 240 | 43 J | 100 U | 0.2 U | 6.2 | 1150 | 29 | 6.97 | | | | | |
| 9/25/2012 | 50 U | 860 | 17000 | 36 J | 41 J | 2200 | 8.2 J | 57 J | 1100 | 200 | 43 J | 50 U | 0.036 J | 6.4 | 700 J | 21.2 | 7.02 | | | | | |
| 12/6/2012 | 100 U | 180 | 36000 | 190 | 26 J | 840 | 10 | 49 | 250 | 18 J | 100 U | 100 U | 240 | 1550 | 6.8 | 3 | 5.75 | | | | | |
| 4/9/2013 | 250 U | 230 J | 43000 | 180 J | 250 U | 3100 | 36 | 140 | 2600 | 250 U | 250 U | 250 U | 180 | 1380 | 5.5 J | 14.4 | 5.89 | | | | | |
| 7/16/2013 | 0.86 J | 12 | 750 | 4.7 J | 0.93 J | 60 | 1.5 J | 20 | 3000 | 0.95 J | 5 U | 5 U | 1.29 | 73.6 | 4.8 J | 7.7 | 7.15 | | | | | |
| 10/11/2013 | 50 U | 50 U | 9500 | 18 J | 50 U | 3400 | 27 | 1500 | 11000 | 50 U | 50 U | 50 U | 36.4 | 316 | 5 U | 1.8 | 6.09 | | | | | |
| 12/11/2013 | 13 U | 4.9 J | 3300 | 15 | 6.2 J | 3100 | 21 | 1500 | 8200 | 2.2 J | 7.3 J | 13 U | 11.8 | 146 | 12.7 | 1.2 | 6.17 | | | | | |
| 8/21/2014 | 0.93 J | 0.84 J | 680 | 2.4 | 1.1 | 300 | 25 | 730 | 14000 | 1 U | 3.3 | 1 U | 63 | 233 | 5 U | 0.14 J | 7.07 | | | | | |
| 12/4/2014 | 1 U | 1.1 | 50 | 7.6 | 1 U | 200 | 15 | 3900 | 15000 | 1 U | 15 | 2.9 | 84.5 | 354 | 5 U | 0.33 | 6.28 | | | | | |
| 4/3/2015 | 1 U | 1 U | 3.6 | 9.2 | 1 U | 22 | 88 | 5500 | 20000 | 1 U | 15 | 1.7 | 113 | 442 | 3.3 J | 0.1 J | 8.34 | | | | | |
| 10/16/2015 | 50 U | 50 U | 21000 | 50 U | 50 U | 1700 | 330 | 3100 | 14000 | 50 U | 50 U | 50 U | 78.7 | 341 | | | 6.97 | | | | | |
| 5/10/2016 | 1.0 U | 3.1 | 67 | 1.8 | 1.0 U | 36 | 850 D | 450 | 19000 D | 1.0 U | 3.1 | 5.5 | 62.1 | 398 | 2.3 J | 0.15 | 7.8 | | | | | |
| 9/26/2016 | 6.7 U | 6.7 U | 5.7 J | 2.5 J | 6.7 U | 110 | 300 | 940 | 5200 D | 6.7 U | 4.8 J | 6.7 U | 45 | 380 | | | 7.43 | | | | | |
| 4/21/2017 | 1.0 U | 1.0 U | 1.8 | 0.5 J | 1.0 U | 18 | 290 | 92 | 11000 | 1.0 U | 1.9 | 2.3 | 73 | 460 | 20 U | 1.0 U | 7.8 | | | | | |
| 10/12/2017 | 1.0 U | 1.0 U | 1.2 | 0.31 J | 1.0 U | 28 | 320 | 210 | 15000 D | 1.0 U | 0.74 J | 2.9 | 64 | 460 | | | 7.1 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 1S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/6/2011 | 50 U | 13 J | 6700 | 38 J | 11 J | 400 | 1.2 J | 11 | 34 | 50 U | 50 U | 50 U | 0.305 | 193 | 133 | 63.8 | 6.59 | 1.0E+03 | 1.4E+04 | 1.1E+03 | 1.6E+02 | 4.7E+02 |
| 8/29/2011 | 25 U | 25 U | 4800 | 94 | 5.1 J | 2600 | 8.6 | 690 | 3500 | 25 U | 25 U | 25 U | 21.6 | 503 | 5 U | 2 | 6.23 | 1.9E+04 | 4.3E+03 | 7.6E+05 | 2.2E+04 | 1.1E+05 |
| 11/3/2011 | 5 U | 5 U | 150 | 81 | 5 U | 320 | 270 | 2100 | 8100 | 5 U | 2.9 J | 1.8 J | 30.6 | 561 | 3.1 J | 2 | 6.3 | 7.3E+03 | 5.1E+02 | 3.1E+04 | 2.1E+04 | 3.4E+04 |
| 3/21/2012 | 5 U | 5 U | 390 | 74 | 4 J | 660 | 1000 | 590 | 22000 | 5 U | 2.6 J | 2 J | 5.24 | 88.3 | 4.9 J | 1.6 | 6.51 | 2.3E+04 | 3.0E+03 | 1.8E+06 | 8.0E+04 | 1.4E+06 |
| 6/25/2012 | 5 U | 1.4 J | 200 | 27 | 1.1 J | 160 | 1700 | 500 | 20000 | 5 U | 1.1 J | 5 U | 1.63 | 29.3 | 14.7 | 8.9 | 6.57 | 4.4E+03 | 1.3E+03 | 7.9E+05 | 2.3E+04 | 6.0E+05 |
| 9/19/2012 | 5 U | 1.9 J | 290 | 8.7 | 1.7 J | 310 | 1600 | 1000 | 15000 | 5 U | 1.3 J | 5 U | 1.64 | 15.6 | 51.7 J | 4.8 | 6.58 | 7.0E+04 | 1.7E+03 | 4.9E+04 | 5.3E+01 | 1.8E+02 |
| 12/5/2012 | 5 U | 1.7 J | 420 | 11 | 1.3 J | 410 | 410 | 420 | 9600 | 5 U | 1.4 J | 5 U | 0.414 | 7.2 | 95.9 | 2.4 | 7.23 | 6.5E+03 | 4.9E+01 | 1.3E+05 | 4.5E+03 | 8.0E+04 |
| 4/3/2013 | 1.3 J | 110 | 710 | 16 | 3.5 J | 380 | 240 | 340 | 15000 J | 5 U | 5.5 | 5 U | 1.65 | 20.3 | 136 | 9.1 | 6.79 | 6.8E+03 | 1.2E+03 | 3.0E+05 | 1.7E+04 | 1.1E+03 |
| 7/10/2013 | 5 U | 4.8 J | 320 | 16 | 1.2 J | 270 | 220 | 360 | 4500 | 5 U | 7.1 | 5 U | 0.2 U | 37 | 46.4 | 20.1 | 7.41 | 3.4E+03 | 2.7E+01 | 3.6E+05 | 9.8E+03 | 3.4E+04 |
| 10/15/2013 | 5 U | 2 J | 1100 | 20 | 6.5 | 620 | 970 | 270 | 11000 | 5 U | 7.3 | 5 U | 0.0703 J | 32.1 | 10.5 | 17.1 | 6.9 | 1.5E+03 | 1.1E+03 | 1.2E+05 | 5.4E+03 | 9.8E+03 |
| 12/5/2013 | 5 U | 4.4 J | 720 | 27 | 5.8 | 650 | 1000 | 500 | 20000 | 5 U | 6.2 | 3.7 J | 0.206 J | 6 | 8.3 | 9.3 | | 2.4E+05 | 7.8E+03 | 6.0E+06 | 4.4E+05 | 9.0E+05 |
| 4/9/2014 | 1 U | 4.2 | 490 | 19 | 1.9 | 280 | 330 | 470 | 13000 | 1 U | 3.8 | 1.4 | 0.656 | 7 | 35.2 | 13.6 | 6.8 | 3.4E+04 | 3.3E+03 | 1.4E+05 | 9.5E+02 | 8.4E+04 |
| 8/13/2014 | 1 U | 1.3 | 250 | 14 | 0.61 J | 210 | 390 | 440 | 7300 | 1 U | 2.5 | 4.7 | 0.0419 J | 5.8 | 9.9 | 14 | 7.4 | 1.6E+04 | 6.2E+02 | 1.7E+06 | 9.6E+02 | 2.4E+05 |
| 12/8/2014 | 1 U | 1.6 | 150 | 7.9 | 1 U | 120 | 550 | 260 | 6200 | 1 U | 0.84 J | 3.6 | 0.141 J | 3 | 38.7 | 5.5 | 7.26 | 2.2E+04 | 5.0E+02 | 4.2E+05 | 5.0E+03 | 2.4E+04 |
| 3/25/2015 | 1 U | 6.1 | 670 | 20 | 2 | 340 | 180 | 430 | 7700 | 1 U | 2.4 | 2.7 | 0.787 | 28.6 | 79.5 | 0.77 | 7.25 | 2.6E+04 | 8.6E+01 | 3.5E+05 | 6.2E+02 | 8.6E+04 |
| 10/22/2015 | 1 U | 0.97 J | 100 | 9.6 | 1 U | 130 | 350 | 240 | 15000 | 1 U | 0.63 J | 3.3 | 0.0424 J | 4.5 | | | 7.14 | | | | | |
| 5/5/2016 | 1.0 U | 1.2 | 560 D | 19 | 1.5 | 280 D | 130 | 250 | 3500 D | 1.0 U | 1.8 | 1.1 | 0.914 | 5.1 | 73.5 | 7.1 | 7.31 | 8.1E+03 | 1.5E+04 | 5.1E+05 | 4.5E+02 | 2.2E+05 |
| 9/26/2016 | 17 UJ | 4 J | 270 J | 9.6 J | 17 UJ | 230 J | 17 | 90 | 4100 D | 17 UJ | 17 UJ | 17 UJ | 0.059 J | 8.9 | | | 6.61 | | | | | |
| 4/17/2017 | 10 U | 4.6 J | 330 | 10 | 10 U | 270 | 17 | 160 | 700 | 10 U | 10 U | 10 U | 0.65 | 2 | 59 | 1.0 U | 7.6 | 1.7E+03 | 4.4E+03 | 1.3E+05 | 1.0E+03 | 2.0E+04 |
| 10/11/2017 | 5.0 U | 1.9 J | 110 | 8.2 | 5.0 U | 140 | 28 | 280 | 7400 | 5.0 U | 5.0 U | 5.0 U | 1 | 9.8 | | | 6.6 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 2D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/16/2008 | 910 J | 110000 | 27000 | 5.0 U | 5.0 U | 1600 J | 6.9 | 19 | 87 | 5.0 U | 5.0 U | 5.0 U | | 7.62 | 1410 | | | | | | | |
| 7/23/2008 | 5000 U | 1100 J | 150000 | 580 J | 380 J | 1800 J | 7.6 | 34 | 110 | 5000 U | 5000 U | 5000 U | | 1020 | 1250 | | | | | | | |
| 9/29/2008 | 5000 U | 3200 J | 120000 | 680 J | 210 J | 2600 | 5.8 | 16 | 89 | 5000 U | 5000 U | 5000 U | | 748 | 843 | | | | | | | |
| 12/11/2008 | 5.0 U | 2300 | 76000 | 260 J | 88 J | 1600 | 6.6 | 9.3 | 39 | 5.0 U | 40 J | 5.0 U | | 194 | 270 | | | | | | | |
| 6/2/2009 | 2500 U | 3600 | 61000 | 2500 U | 2500 U | 1400 | 14 | 50 | 390 | 2500 U | 2500 U | 2500 U | 7.91 | 723 | 71.8 | | | | | | | |
| 10/8/2009 | 2500 U | 3700 | 63000 | 140 J | 2500 U | 1400 | 9.3 | 26 | 110 | 2500 U | 2500 U | 2500 U | 0.986 | 782 | 111 | 109 | | | | | | |
| 7/15/2010 | 250 U | 6900 | 100000 | 220 J | 110 J | 5000 | 11 | 200 | 660 | 250 U | 63 J | 250 U | 0.105 J | 442 | 69.6 J | 165 | | | | | | |
| 6/29/2011 | 1000 U | 12000 | 97000 | 270 J | 1000 U | 1700 | 5.4 | 180 | 750 | 1000 U | 1000 U | 1000 U | 0.0272 J | 462 | 28.2 J | 210 | 5.83 | 3.0E+02 | 1.4E+03 | 6.3E+02 | 4.3E+01 | 1.9E+02 |
| 8/23/2011 | 500 U | 15000 | 93000 | 250 J | 140 J | 2300 | 7.9 | 200 | 260 | 500 U | 500 U | 500 U | 0.0279 J | 471 | 241 J | 207 | 6.77 | 2.1E+01 | 7.6E+01 | 9.0E+01 | 1.1E+01 | 1.6E+01 |
| 11/3/2011 | 1000 U | 30000 | 130000 | 250 J | 1000 U | 3000 | 4.3 J | 98 | 330 | 1000 U | 1000 U | 1000 U | 1.21 | 356 | 76 | 165 | 6.5 | 1.6E+04 | 1.4E+04 | 1.6E+05 | 9.1E+03 | 8.0E+03 |
| 3/21/2012 | 310 J | 49000 | 120000 | 210 J | 180 J | 2700 | 7.4 | 170 | 2000 | 500 U | 500 U | 500 U | 0.0358 J | 137 | 665 J | 209 | 6.39 | 1.0E+04 | 2.2E+03 | 7.3E+03 | 4.0E+02 | 4.4E+03 |
| 6/21/2012 | 160 | 27000 | 80000 | 160 | 130 | 1700 | 19 | 180 | 2600 | 40 J | 34 J | 50 U | 0.2 U | 148 | 202 J | 150 | 6.68 | 8.2E+02 | 4.8E+02 | 4.8E+03 | 2.5E+02 | 4.3E+03 |
| 9/24/2012 | 73 J | 16000 | 91000 | 190 J | 160 J | 2100 | 21 | 200 | 2200 | 250 U | 250 U | 250 U | 0.2 U | 215 | 118 | 171 | 6.31 | 2.5E+03 | 3.0E+03 | 2.7E+04 | 8.1E+02 | 2.1E+03 |
| 12/6/2012 | 500 U | 9500 | 150000 | 220 J | 190 J | 2500 | 14 | 160 | 2000 | 500 U | 500 U | 500 U | 0.0569 J | 790 | 99.5 | 106 | 6.3 | 6.5E+03 | 2.3E+03 | 1.2E+04 | 8.0E+03 | 9.6E+02 |
| 4/4/2013 | 250 U | 700 | 130000 | 160 J | 71 J | 1500 | 15 | 140 | 2900 | 250 U | 56 J | 250 U | 0.2 U | 821 | 41.6 | 206 | | 1.8E+04 | 1.2E+04 | 4.6E+04 | 2.0E+03 | 9.2E+01 |
| 7/11/2013 | 250 U | 1100 | 76000 | 94 J | 52 J | 2300 | 5 J | 120 | 1800 | 250 UJ | 250 U | 250 U | 0.2 U | 288 | 180 | 193 | 6.68 | 2.5E+03 | 7.3E+03 | 1.8E+03 | 6.8E+02 | 1.3E+02 |
| 10/15/2013 | 1000 U | 9000 | 150000 | 230 J | 160 J | 3600 | 10 | 170 | 4700 | 1000 U | 1000 U | 1000 U | 0.4 U | 485 | 81.6 | 223 | | 4.6E+02 | 3.8E+02 | 8.9E+02 | 7.6E+02 | 1.7E+01 |
| 12/12/2013 | 140 J | 22000 | 110000 | 180 J | 140 J | 4600 | 12 | 240 | 2800 | 500 U | 500 U | 500 U | 0.4 U | 286 | 300 | 159 | 6.64 | 2.6E+04 | 1.8E+03 | 3.9E+04 | 1.4E+04 | 2.9E+03 |
| 4/10/2014 | 120 | 8200 | 80000 | 160 | 120 | 8300 | 19 | 420 | 6700 | 100 U | 100 U | 100 U | 0.4 U | 163 | 206 | 141 | 6.73 | 4.5E+04 | 1.6E+03 | 1.8E+05 | 5.1E+02 | 9.9E+03 |
| 8/15/2014 | 100 U | 2200 | 79000 | 180 | 120 | 18000 | 14 | 1700 | 9600 | 100 U | 100 U | 100 U | 0.219 J | 367 | 95.1 | 115 | 6.33 | 1.2E+05 | 5.4E+02 | 6.7E+05 | 2.8E+03 | 2.1E+04 |
| 12/3/2014 | 50 U | 3800 | 89000 | 210 | 130 | 12000 | 17 | 3000 | 11000 | 50 U | 37 J | 50 U | 0.0799 J | 422 | 74.2 | 80.3 | 6.36 | 6.2E+05 | 5.6E+03 | 1.6E+06 | 1.1E+04 | 3.0E+04 |
| 3/26/2015 | 35 J | 3300 | 110000 | 220 | 130 | 17000 | 34 | 2800 | 11000 J | 50 U | 37 J | 50 U | 0.0409 J | 220 | 51.5 | 120 | 6.38 | 3.5E+05 | 3.6E+02 | 1.1E+06 | 1.3E+04 | 3.2E+04 |
| 10/15/2015 | 100 U | 4100 | 110000 | 430 | 160 | 26000 | 22 | 8300 | 7500 | 100 U | 86 J | 100 U | 0.412 | 382 | | | 6.23 | | | | | |
| 5/10/2016 | 5.0 U | 50 | 28000 D | 130 | 33 | 20000 D | 28 | 3900 D | 16000 D | 5.0 U | 21 | 5.0 U | 0.0807 J | 222 | 23.1 | 146 | 6.68 | 2.6E+05 | 3.6E+03 | 1.5E+06 | 5.3E+04 | 2.7E+04 |
| 9/30/2016 | 250 U | 140 J | 7100 | 100 J | 250 U | 17000 | 13 J | 2800 J | 5200 J | 250 U | 250 U | 250 U | 0.33 | 470 | | | 6.51 | | | | | |
| 4/20/2017 | 1000 U | 1000 U | 47000 | 1000 U | 1000 U | 16000 | 20 | 2000 | 3500 | 1000 U | 1000 U | 1000 U | 0.64 | 210 | 140 | 18 | 6.85 | 2.8E+04 | 3.0E+02 | 6.5E+05 | 9.9E+04 | 2.5E+04 |
| 10/12/2017 | 1000 U | 1200 | 65000 D | 1000 U | 1000 U | 23000 | 120 | 7200 | 9100 D | 1000 U | 1000 U | 1000 U | 1.5 | 400 | | | 6.3 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 2S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/6/2011 | 50 U | 17 J | 6000 | 66 | 9.2 J | 710 | 2.5 J | 19 | 370 | 50 U | 50 U | 50 U | 1.54 | 292 | 87.2 | 45.8 | 6.18 | 7.4E+02 | 5.7E+03 | 1.0E+03 | 3.2E+02 | 5.9E+02 |
| 8/29/2011 | 25 U | 25 U | 2800 | 100 | 25 U | 1400 | 9.5 | 1200 | 5900 | 25 U | 25 U | 25 U | 10.4 | 447 | 5 U | 9.1 | 6.19 | 1.8E+04 | 3.4E+03 | 3.6E+05 | 3.5E+04 | 1.4E+05 |
| 11/3/2011 | 5 U | 5 U | 630 | 88 | 1 J | 680 | 150 | 1300 | 13000 | 5 U | 2.8 J | 5 U | 23.9 | 437 | 2.6 J | 1.7 | 6.12 | 1.5E+04 | 7.5E+02 | 5.3E+04 | 1.7E+04 | 1.4E+05 |
| 3/22/2012 | 10 U | 10 U | 1700 | 92 | 3.1 J | 1300 | 300 | 390 | 14000 | 10 U | 2.9 J | 10 U | 19.7 | 260 | 22.3 | 1.1 | 5.99 | 2.1E+05 | 7.3E+02 | 1.7E+06 | 8.8E+04 | 1.2E+06 |
| 6/20/2012 | 5 U | 2.8 J | 390 | 63 | 1.6 J | 350 | 190 | 220 | 13000 | 5 UJ | 2 J | 5 U | 21.6 | 234 | 1.8 J | 1.1 | 6.54 | 1.2E+04 | 1.2E+03 | 4.2E+05 | 1.3E+04 | 3.5E+05 |
| 9/24/2012 | 10 U | 2.7 J | 550 | 31 | 10 U | 490 | 220 | 130 | 14000 | 10 U | 10 U | 10 U | 6.87 | 44.7 | 7.6 | 2.2 | 6.41 | 6.9E+03 | 1.2E+03 | 3.0E+05 | 2.9E+04 | 6.6E+04 |
| 12/4/2012 | 5 U | 88 | 270 | 13 | 5 U | 220 | 300 | 110 | 13000 | 5 U | 1.1 J | 5 U | 5.73 | 19.4 | 34.1 | 0.89 | 6.58 | 5.1E+03 | 2.0E+02 | 1.0E+05 | 2.6E+03 | 6.6E+03 |
| 4/3/2013 | 5 U | 1.5 J | 180 | 7.1 | 5 U | 130 | 340 | 74 | 20000 J | 5 U | 1.2 J | 5 U | 1.61 | 6.6 | 319 | 4.9 | 6.72 | 6.9E+03 | 4.1E+03 | 2.1E+05 | 1.1E+04 | 1.5E+03 |
| 7/11/2013 | 5 U | 1.1 J | 51 | 6.5 | 5 U | 58 | 230 | 100 | 17000 | 5 UJ | 1.8 J | 5 U | 0.628 | 20.7 | 4 J | 10.3 | 6.51 | 2.6E+03 | 1.6E+02 | 2.4E+04 | 0.9 U | 8.6E+02 |
| 10/10/2013 | 5 U | 5 U | 100 | 9.1 | 5 U | 130 | 380 | 300 | 16000 | 5 U | 3.1 J | 5 U | 1.28 | 20.2 | 2.5 J | 6.4 | 6.3 | 3.6E+03 | 5.9E+02 | 2.4E+05 | 1.2E+04 | 4.7E+03 |
| 12/5/2013 | 5 U | 5 U | 220 | 13 | 5 U | 190 | 420 | 240 | 16000 | 5 U | 2.8 J | 1.3 J | 5.6 | 26.1 | 1.6 J | 1.5 |  | 8.2E+03 | 2.3E+02 | 5.1E+04 | 4.1E+03 | 7.2E+03 |
| 4/9/2014 | 1 U | 2.5 | 320 | 13 | 0.89 J | 260 | 160 | 100 | 19000 | 1 U | 1.2 | 1 U | 0.487 | 10.9 | 47.4 | 15.4 | 6.29 | 7.8E+03 | 2.7E+02 | 1.7E+04 | 1.1E+02 | 1.2E+04 |
| 8/12/2014 | 1 U | 2.2 | 35 | 6.3 | 1 U | 37 | 290 | 170 | 10000 | 1 U | 1.8 | 5.1 | 0.111 J | 6.4 | 3.3 J | 13.8 | 7.01 | 1.6E+04 | 5.1E+02 | 1.1E+06 | 3.8E+03 | 7.7E+04 |
| 12/3/2014 | 1 U | 1 U | 4.9 | 2.9 | 1 U | 10 | 380 | 38 | 8700 | 1 U | 0.59 J | 2.6 | 0.677 | 5.7 | 3.4 J | 3.8 | 6.72 | 2.3E+04 | 3.3E+02 | 3.7E+05 | 2.2E+03 | 3.5E+04 |
| 3/30/2015 | 1 U | 2 | 230 | 16 | 1 U | 290 | 160 | 200 | 18000 | 1 U | 1.1 | 2.2 | 5.36 | 12 | 123 | 0.79 | 6.53 | 2.2E+04 | 1.1E+02 | 2.5E+05 | 7.1E+02 | 4.2E+04 |
| 10/21/2015 | 1 U | 1 U | 1.3 | 0.97 J | 1 U | 2.8 | 190 | 13 | 15000 | 1 U | 1 U | 1 U | 1.45 | 9.5 |  |  | 6.82 |  |  |  |  |  |
| 5/9/2016 | 1.0 U | 0.55 J | 38 | 3.9 | 1.0 U | 35 | 130 | 73 | 20000 D | 1.0 U | 0.58 J | 0.76 J | 0.222 J | 6.5 | 13.5 | 17.1 | 6.83 | 1.2E+03 | 2.6E+03 | 2.5E+04 | 2.5E+02 | 1.1E+04 |
| 4/17/2017 | 1.0 U | 0.71 J | 5.7 | 2.9 | 1.0 U | 16 | 29 | 75 | 4500 | 1.0 U | 0.57 J | 1.0 U | 0.63 | 2.9 | 39 | 8.1 | 7.04 | 6.0E+02 | 4.8 U | 5.2E+04 | 1.1E+03 | 5.6E+03 |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 3D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/15/2008 | 1400 J | 240000 | 31000 | 5.0 U | 5.0 U | 640 J | 9.6 | 20 | 82 | 5.0 U | 5.0 U | 5.0 U | | 11 | 987 | | | | | | | |
| 7/22/2008 | 2500 U | 540 J | 83000 | 210 J | 2500 U | 760 J | 16 | 24 | 120 | 2500 U | 2500 U | 2500 U | | 1800 | 1170 | | | | | | | |
| 9/29/2008 | 13 J | 1000 | 9000 | 50 J | 15 J | 99 J | 35 | 4.7 | 160 | 16 J | 250 U | 250 U | | 558 | 1010 | | | | | | | |
| 12/11/2008 | 5.0 U | 550 | 5600 | 26 J | 5.0 U | 130 J | 6.4 | 8.7 | 36 | 5.0 U | 5.0 U | 5.0 U | | 204 | 750 | | | | | | | |
| 6/3/2009 | 250 U | 1200 | 9900 | 29 J | 250 U | 250 | 16 | 33 | 280 | 250 U | 250 U | 250 U | 0.0562 J | 240 | 817 | 166 | | | | | | |
| 10/12/2009 | 250 U | 2100 | 11000 | 32 J | 30 J | 150 | 25 | 15 | 250 | 250 U | 11 J | 250 U | 0.0317 U | 141 | 858 | 184 | | | | | | |
| 7/15/2010 | 33 J | 12000 | 29000 | 53 J | 51 J | 240 | 20 | 23 | 880 | 130 U | 130 U | 130 U | 0.2 U | 153 | 972 J | 156 | | | | | | |
| 6/24/2011 | 57 J | 19000 | 20000 | 46 J | 55 J | 540 | 16 J | 13 J | 2400 J | 21 J | 24 J | 100 U | 0.2 U | 71.4 | 1060 | 182 | 7.14 | | | | | |
| 8/24/2011 | 7.7 J | 2600 | 4300 | 9.3 J | 9.6 J | 63 | 35 | 26 | 3300 | 25 U | 6.7 J | 25 U | 0.2 U | 107 | 731 | 211 | 7.17 | | | | | |
| 11/9/2011 | 50 J | 11000 | 15000 | 26 J | 31 J | 430 | 22 | 50 | 2900 | 100 U | 100 U | 100 U | 0.2 U | 44.1 | 987 | 207 | 6.95 | | | | | |
| 3/20/2012 | 13 J | 3300 | 6600 | 14 J | 17 J | 150 | 18 | 19 | 5800 | 25 U | 15 J | 25 U | 0.2 U | 132 | 482 J | 224 | 6.83 | | | | | |
| 6/27/2012 | 20 J | 5000 | 8900 | 18 J | 20 J | 210 | 5.3 | 14 | 1900 | 22 J | 27 J | 50 U | 0.2 U | 167 | 505 J | 173 | 6.67 | | | | | |
| 9/18/2012 | 38 J | 5600 | 13000 | 25 J | 31 J | 290 | 29 | 58 | 4200 | 33 J | 33 J | 50 U | 0.2 U | 148 | 601 | 173 | 6.87 | | | | | |
| 12/5/2012 | 30 | 3000 | 16000 | 20 J | 22 J | 270 | 14 | 18 | 3200 | 11 J | 26 | 25 U | 0.2 U | 345 | 752 | 323 | 6.36 | | | | | |
| 4/9/2013 | 250 U | 1700 | 25000 | 250 U | 250 U | 350 | 12 | 28 | 5500 | 250 U | 250 U | 250 U | 0.342 | 323 | 309 J | 279 | 6.85 | | | | | |
| 7/16/2013 | 43 J | 7400 | 66000 | 85 J | 70 J | 1100 | 15 | 72 | 5400 | 17 J | 83 J | 100 U | 0.2 U | 418 | 203 | 201 | 6.37 | | | | | |
| 10/11/2013 | 500 U | 11000 | 57000 | 500 U | 500 U | 920 | 27 | 98 | 3300 | 500 U | 500 U | 500 U | 0.4 U | 351 | 326 | 252 | 6.45 | | | | | |
| 12/9/2013 | 250 U | 6300 | 40000 | 56 J | 51 J | 630 | 26 | 76 | 2200 | 250 U | 250 U | 250 U | 0.4 U | 189 | 617 | 216 | 6.44 | | | | | |
| 4/9/2014 | 29 J | 5100 | 77000 | 110 | 96 | 1700 | 24 | 270 | 4700 | 50 U | 54 | 50 U | 0.104 J | 273 | 195 | 186 | 6.6 | | | | | |
| 8/22/2014 | 50 U | 1200 | 61000 | 94 | 72 | 2000 | 33 | 340 | 8900 | 50 U | 46 J | 50 U | 0.4 U | 234 | 129 | 179 | 6.65 | | | | | |
| 12/9/2014 | 100 U | 3700 | 67000 | 100 | 79 J | 2500 | 24 | 550 | 5000 | 100 U | 100 U | 100 U | 0.4 U | 195 | 570 | 154 | 6.63 | | | | | |
| 3/30/2015 | 50 U | 3800 | 60000 | 95 | 76 | 4100 | 19 | 840 | 8200 | 50 U | 33 J | 50 U | 0.4 U | 223 | 114 | 201 | 7.5 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 3S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/6/2011 | 250 U | 250 U | 45000 | 610 | 76 J | 6800 | 22 | 100 | 720 | 250 U | 250 U | 250 U | 1.33 | 212 | 332 | 46.3 | 5.9 | 8.7E+02 | 4.3E+03 | 1.3E+03 | 3.1E+02 | 3.3E+02 |
| 8/25/2011 | 12 J | 84 | 61000 | 1100 | 110 | 12000 | 32 | 810 | 4700 | 50 U | 33 J | 50 U | 1.72 | 238 | 404 J | 17.3 | 5.08 | 4.9E+04 | 5.8E+03 | 2.9E+05 | 1.8E+04 | 2.6E+05 |
| 11/3/2011 | 250 U | 250 U | 43000 | 960 | 65 J | 27000 | 99 | 1700 | 9400 | 250 U | 250 U | 250 U | 5.66 | 229 | 444 | 3.9 | 6.51 | 9.0E+04 | 1.7E+03 | 1.8E+05 | 2.5E+04 | 3.6E+05 |
| 3/22/2012 | 500 U | 610 | 99000 | 1600 | 190 J | 19000 | 260 | 1300 | 9400 | 500 U | 500 U | 500 U | 2.64 | 78.3 | 849 | 8.7 |  | 2.0E+05 | 8.3E+02 | 7.7E+05 | 1.9E+04 | 6.0E+05 |
| 6/25/2012 | 500 U | 660 | 65000 | 1200 | 150 J | 13000 | 280 | 930 | 10000 | 500 U | 500 U | 500 U | 4.3 | 84.8 | 1010 | 3.2 | 6.25 | 2.2E+05 | 9.3E+02 | 1.1E+06 | 1.1E+04 | 2.0E+05 |
| 9/24/2012 | 250 U | 210 J | 39000 | 760 | 60 J | 8500 | 320 | 800 | 11000 | 250 U | 250 U | 250 U | 3.4 J | 31.2 | 228 | 2.5 | 6.2 | 2.9E+05 | 2.6E+02 | 4.8E+05 | 2.5E+04 | 8.7E+04 |
| 12/5/2012 | 250 U | 600 | 85000 | 1300 | 150 J | 13000 | 290 | 430 | 12000 | 250 U | 250 U | 250 U | 4.56 | 12.8 | 883 | 0.37 | 6.08 | 6.6E+04 | 1.2E+01 | 1.2E+05 | 2.2E+03 | 1.5E+04 |
| 4/3/2013 | 23 J | 330 | 29000 | 510 | 44 J | 4900 | 660 | 1500 | 17000 J | 100 U | 24 J | 100 U | 0.502 | 13.7 | 950 | 17.2 | 6.56 | 1.7E+05 | 8.5E+02 | 1.4E+06 | 8.6E+04 | 1.9E+04 |
| 7/11/2013 | 500 U | 310 J | 45000 | 810 | 83 J | 7600 J | 260 | 1300 | 12000 | 500 UJ | 500 U | 500 U | 0.628 | 15.9 | 648 | 21.2 | 6.56 | 3.6E+04 | 1.0E+02 | 6.1E+04 | 3.6E+03 | 7.6E+03 |
| 10/15/2013 | 250 U | 200 J | 30000 | 610 | 59 J | 5100 | 400 | 2100 | 9900 | 250 U | 250 U | 250 U | 0.847 | 30.6 | 552 | 16.9 | 6.4 | 1.7E+04 | 2.3E+02 | 2.5E+04 | 1.2E+04 | 3.0E+03 |
| 12/5/2013 | 5 J | 86 | 13000 | 290 | 25 J | 3100 | 310 | 900 | 9800 | 25 U | 11 J | 25 U | 0.301 J | 22.3 | 670 | 18.3 |  | 8.9E+04 | 3.1E+02 | 4.1E+05 | 1.4E+05 | 4.4E+04 |
| 4/10/2014 | 20 U | 27 | 14000 | 350 | 24 | 5800 | 380 | 1700 | 14000 | 20 U | 12 J | 20 U | 1.32 | 13.9 | 547 | 22.3 | 6.2 | 5.9E+04 | 2.0E+02 | 8.1E+05 | 6.7E+02 | 1.2E+05 |
| 8/13/2014 | 20 U | 110 | 26000 | 480 | 41 | 5000 | 320 | 1200 | 10000 | 20 U | 16 J | 20 U | 0.214 J | 18.5 | 347 | 23.4 | 6.36 | 1.1E+05 | 1.1E+02 | 9.2E+05 | 1.2E+03 | 7.7E+04 |
| 12/4/2014 | 10 U | 60 | 15000 | 270 | 27 | 2800 | 220 | 860 | 8400 | 10 U | 9.9 J | 10 U | 0.205 J | 11.3 | 731 | 13.9 | 6.47 | 6.8E+04 | 1.8E+02 | 5.1E+05 | 1.1E+03 | 6.1E+03 |
| 3/24/2015 | 5 U | 28 | 13000 | 300 | 21 | 5300 | 440 | 1300 | 12000 J | 5 U | 9.8 | 5 U | 0.709 | 20.7 | 503 | 16.5 | 6.28 | 1.9E+05 | 2.3E+02 | 5.0E+05 | 2.5E+03 | 5.4E+04 |
| 10/20/2015 | 10 U | 63 | 13000 | 290 | 24 | 2400 | 170 | 1000 | 9500 | 10 U | 11 | 10 U | 0.39 J | 12.5 |  |  | 6.64 |  |  |  |  |  |
| 5/9/2016 | 2.0 U | 13 | 5800 | 160 | 14 | 2100 | 200 | 600 D | 15000 D | 2.0 U | 5.6 | 2.0 U | 0.638 | 5.6 | 569 | 18.5 | 7.04 | 1.7E+04 | 3.3E+03 | 9.5E+04 | 2.8E+02 | 2.4E+04 |
| 9/30/2016 | 140 U | 140 U | 3800 | 74 J | 140 U | 820 | 24 J | 100 J | 2300 J | 140 U | 140 U | 140 U | 0.49 | 11 |  |  | 6.4 |  |  |  |  |  |
| 4/19/2017 | 200 U | 87 J | 4200 | 86 J | 200 U | 1000 | 50 | 170 | 4800 | 200 U | 200 U | 200 U | 0.65 | 2.7 | 510 | 9.3 | 6.79 | 3.6E+03 | 5.3E+02 | 1.4E+05 | 1.3E+02 | 5.4E+03 |
| 10/12/2017 | 200 U | 200 U | 4300 | 120 J | 200 U | 1500 | 56 | 460 | 9100 D | 200 U | 200 U | 200 U | 0.52 | 6.3 |  |  | 6.53 |  |  |  |  |  |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 4D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/16/2008 | 1100 J | 220000 | 36000 | 5.0 U | 5.0 U | 690 J | 10 | 17 | 94 | 5.0 U | 5.0 U | 5.0 U | | 12.2 | 1080 | | | | | | | |
| 7/22/2008 | 5000 U | 3500 J | 160000 | 510 J | 350 J | 1100 J | 12 | 38 | 110 | 5000 U | 5000 U | 5000 U | | 237 | 1520 | | | | | | | |
| 9/30/2008 | 1300 U | 5900 | 91000 | 990 J | 140 J | 1400 | 9.1 | 10 | 77 | 1300 U | 1300 U | 1300 U | | 227 | 108 | | | | | | | |
| 12/11/2008 | 5.0 U | 1000 | 22000 | 140 J | 5.0 U | 680 J | 17 | 14 | 120 | 5.0 U | 5.0 U | 5.0 U | | 113 | 635 | | | | | | | |
| 6/3/2009 | 1000 U | 11000 | 65000 | 180 J | 1000 U | 1100 | 4.1 | 14 | 47 | 1000 U | 1000 U | 1000 U | 0.0322 J | 105 | 2000 | 173 | | | | | | |
| 6/4/2009 | | | 270000 J | 1600 J | 580 J | 2400 J | | | | 3000 | 260 J | 2500 U | | | | | | | | | | |
| 10/12/2009 | 500 U | 3200 | 16000 | 59 J | 39 J | 550 | 20 | 19 | 250 | 500 U | 23 J | 500 U | 0.0317 U | 63.2 | 1240 | 232 | | | | | | |
| 7/15/2010 | 250 U | 3500 | 22000 | 66 J | 250 U | 620 | 20 | 24 | 1600 | 250 U | 250 U | 250 U | 0.2 U | 89.1 | 1230 J | 191 | | | | | | |
| 6/24/2011 | 91 J | 73000 | 69000 | 210 J | 180 J | 1300 | 11 | 48 | 2000 | 500 U | 500 U | 500 U | 0.2 U | 128 | 922 | 177 | 7.53 | | | | | |
| 8/23/2011 | 100 U | 16000 | 21000 | 56 J | 45 J | 510 | 31 | 95 | 3900 | 100 U | 22 J | 100 U | 0.2 U | 113 | 652 J | 175 | 7.3 | | | | | |
| 11/8/2011 | 31 J | 13000 | 20000 | 58 J | 49 J | 640 | 16 | 120 | 3900 | 100 U | 29 J | 100 U | 0.0183 J | 95.5 | 460 J | 224 | 6.39 | | | | | |
| 3/20/2012 | 9.9 J | 4600 | 14000 | 50 | 47 | 730 | 17 | 160 | 3900 | 9.6 J | 29 | 25 U | 0.2 U | 133 | 450 J | 224 | 6.79 | | | | | |
| 6/27/2012 | 13 | 1900 | 1800 | 9.2 J | 9.1 J | 83 | 31 | 61 | 4200 | 7 J | 4.3 J | 10 U | 0.0333 J | 144 | 203 J | 187 | 6.87 | | | | | |
| 9/25/2012 | 150 | 15000 | 30000 | 64 J | 78 J | 960 | 15 | 150 | 3800 | 130 | 71 J | 100 U | 0.2 U | 120 | 256 J | 215 | 6.77 | | | | | |
| 12/5/2012 | 24 J | 930 | 51000 | 54 J | 31 J | 700 | 14 | 110 | 5000 | 61 J | 96 J | 100 U | 0.2 U | 1020 | 283 | 247 | 6.67 | | | | | |
| 4/12/2013 | 78 J | 730 | 24000 | 90 J | 45 J | 2500 | 37 | 620 | 7700 | 250 U | 61 J | 250 U | 0.2 U | 85.5 | 895 | 157 | 6.69 | | | | | |
| 7/17/2013 | 18 J | 470 | 39000 | 74 J | 30 J | 1200 | 16 | 210 | 6100 | 100 U | 94 J | 100 U | 0.2 U | 253 | 151 | 375 | 6.88 | | | | | |
| 10/11/2013 | 500 U | 1100 | 53000 | 97 J | 500 U | 1400 | 28 | 360 | 5600 | 500 U | 110 J | 500 U | 0.4 U | 261 | 300 | 305 | 6.62 | | | | | |
| 12/3/2013 | 1000 U | 730 J | 74000 | 1000 U | 1000 U | 2100 | 27 | 360 | 6600 | 1000 U | 1000 U | 1000 U | 0.4 U | 301 J | 284 | 230 | 6.87 | | | | | |
| 4/8/2014 | 250 U | 670 | 77000 | 250 U | 250 U | 2800 | 36 | 430 | 7700 | 250 U | 250 U | 250 U | 0.4 U | 280 | 106 | 188 | | | | | | |
| 8/21/2014 | 100 U | 370 | 71000 | 140 | 110 | 4100 | 36 | 660 | 9200 | 100 U | 120 | 100 U | 0.0601 J | 196 | 281 | 197 | 6.83 | | | | | |
| 12/10/2014 | 100 U | 130 | 57000 | 110 | 78 J | 3000 | 26 | 800 | 8400 | 100 U | 83 J | 100 U | 0.4 U | 213 | 468 | 172 | 7.42 | | | | | |
| 3/31/2015 | 100 U | 190 | 62000 | 130 | 91 J | 6700 | 35 | 940 | 9400 | 100 UJ | 80 J | 100 U | 0.4 U | 238 | 103 | 197 | 6.46 | | | | | |
| 10/19/2015 | 20 U | 700 | 50000 | 120 | 43 | 5700 | 21 | 1100 | 9200 | 20 U | 89 | 20 U | 0.4 U | 269 | | | 6.91 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 4S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/28/2011 | 25 U | 78 | 2000 | 63 | 25 U | 68 | 16 | 2.2 J | 47 | 25 U | 25 U | 25 U | 0.2 U | 12.5 | 467 J | 0.16 U | 7.38 | | | | | |
| 8/30/2011 | 4.4 J | 130 | 3900 | 120 | 7.9 J | 300 | 21 | 17 | 86 | 13 U | 4.6 J | 13 U | 0.0149 J | 16.2 | 604 | 0.16 U | 6.77 | | | | | |
| 11/10/2011 | 50 U | 250 | 8600 | 240 | 15 J | 460 | 17 | 19 | 170 | 50 U | 10 J | 50 U | 0.145 J | 6.5 | 1310 | 0.16 U | 6.39 | | | | | |
| 3/26/2012 | 9.7 J | 340 | 14000 | 310 | 24 J | 840 | 43 | 44 | 1600 | 50 U | 14 J | 50 U | 0.151 J | 3.5 | 1970 | 0.16 U | 6.83 | | | | | |
| 6/20/2012 | 7.6 J | 270 | 11000 | 280 | 20 J | 660 | 38 | 110 | 2000 | 4.5 J | 14 J | 25 U | 0.0155 J | 3.8 | 1400 | 0.16 U | 6.66 | | | | | |
| 9/24/2012 | 50 U | 230 | 11000 | 270 | 20 J | 1300 | 53 | 180 | 2500 | 50 U | 12 J | 50 U | 2.24 J | 5.8 | 1510 | 0.16 U | 6.54 | | | | | |
| 12/11/2012 | 100 U | 230 | 14000 | 350 | 22 J | 860 | 68 | 53 | 6900 J | 100 U | 100 U | 100 U | 0.991 | 3.7 | 1980 | 0.16 U | 6.65 | | | | | |
| 4/8/2013 | 3.2 J | 270 | 13000 | 400 | 33 | 1100 | 110 | 48 | 11000 | 5 U | 19 | 5 U | 0.386 | 2.7 | 1770 | 0.16 U | 6.64 | | | | | |
| 7/18/2013 | 50 U | 180 | 12000 | 350 | 26 J | 830 | 73 | 31 | 8200 | 50 U | 14 J | 50 U | 1.69 | 3.4 | 1770 | 0.16 U | 6.62 | | | | | |
| 10/14/2013 | 100 U | 100 | 8500 | 240 | 17 J | 560 | 220 | 49 | 9200 | 100 U | 100 U | 100 U | 1.83 | 6.7 | 921 | 0.16 U | 6.53 | | | | | |
| 12/9/2013 | 50 U | 140 | 12000 | 320 | 25 J | 750 | 130 | 48 | 7200 | 50 U | 14 J | 50 U | 1.07 | 8.4 | 1530 | 0.16 U | 6.18 | | | | | |
| 4/11/2014 | 10 U | 130 | 7400 | 220 | 17 | 440 | 91 | 27 | 6000 | 10 U | 8.9 J | 10 U | 2.22 | 5.8 | 1490 J+ | 0.16 U | 6.61 | | | | | |
| 8/20/2014 | 5 U | 39 | 6000 | 160 | 9.1 | 240 | 47 | 31 | 2900 | 5 U | 7.2 | 5 U | 3.58 | 23.9 | 820 | 0.078 J | 6.45 | | | | | |
| 12/3/2014 | 10 U | 83 | 8200 | 210 | 14 | 410 | 81 | 75 | 5700 | 10 U | 9.3 J | 10 U | 0.162 J | 6.1 | 121 | 0.16 U | 5.82 | | | | | |
| 3/31/2015 | 2 U | 76 | 3500 | 110 | 8 | 210 | 41 | 25 | 2300 | 2 UJ | 5.2 | 2 U | 0.23 J | 8.6 | 519 | 0.16 U | | | | | | |
| 10/20/2015 | 2 U | 9.2 | 1800 | 45 | 4.6 | 150 | 21 | 26 | 1600 | 2 U | 2.6 | 2 U | 0.414 | 8.2 | | | 6.99 | | | | | |
| 5/12/2016 | 1.0 U | 12 | 500 D | 18 | 1.3 | 25 | 2.8 J | 5.1 | 230 | 1.0 U | 0.77 J | 1.0 U | 0.583 | 5.4 | 129 | 0.10 U | 7.05 | | | | | |
| 9/27/2016 | 6.7 U | 14 | 160 | 10 | 6.7 U | 28 | 21 | 46 | 2000 D | 6.7 U | 6.7 U | 6.7 U | 0.04 J | 5 | | | 7.65 | | | | | |
| 4/18/2017 | 100 U | 100 U | 2200 | 63 J | 100 U | 100 | 13 | 14 | 1800 | 100 U | 100 U | 100 U | 0.47 | 2 | 370 | 1.0 U | 7.28 | | | | | |
| 10/10/2017 | 25 U | 25 U | 860 | 14 J | 25 U | 150 | 10 | 25 | 1000 | 25 U | 25 U | 25 U | 1.3 | 7.4 | | | 7.08 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 5D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/15/2008 | 1700 J | 91000 | 11000 | 5.0 U | 5.0 U | 420 J | 5.9 | 19 | 60 | 750 J | 5.0 U | 5.0 U | | 4.8 | 710 | | | | | | | |
| 7/22/2008 | 5000 U | 950 J | 100000 | 430 J | 5000 U | 1800 J | 10 | 72 | 120 | 5000 U | 5000 U | 5000 U | | 332 | 982 | | | | | | | |
| 9/29/2008 | 2500 U | 4800 | 92000 | 500 J | 200 J | 2400 | 8.8 | 18 | 85 | 2500 U | 2500 U | 2500 U | | 383 | 730 | | | | | | | |
| 12/11/2008 | 5.0 U | 6900 | 71000 | 540 J | 110 J | 1300 J | 15 | 21 | 100 | 5.0 U | 100 J | 5.0 U | | 196 | 352 | | | | | | | |
| 6/3/2009 | 1000 U | 2100 | 27000 | 1000 U | 1000 U | 760 | 29 | 40 | 180 | 1000 U | 1000 U | 1000 U | 0.0751 J | 306 | 179 | 176 | | | | | | |
| 10/13/2009 | 90 J | 13000 | 73000 | 210 J | 210 J | 1900 | 20 | 35 | 200 | 1000 U | 130 J | 1000 U | 0.032 J | 351 | 490 | 237 | | | | | | |
| 7/16/2010 | 1000 U | 10000 | 94000 | 1000 U | 1000 U | 2300 | 17 | 130 | 290 | 1000 U | 1000 U | 1000 U | 0.2 U | 334 | 171 | 193 | | | | | | |
| 8/31/2011 | 700 | 67000 | 69000 | 96 J | 160 J | 650 | 7.3 | 19 | 280 | 350 | 110 J | 250 U | 0.0212 J | 441 | 152 | 241 | | | | | | |
| 3/26/2012 | 500 | 47000 | 45000 | 56 | 120 | 580 | 24 | 140 | 1800 | 140 | 86 | 50 U | 0.2 U | 45.6 | 995 | 130 | | | | | | |
| 6/22/2012 | 88 J | 6800 | 8600 | 100 U | 37 J | 63 J | 12 | 85 | 2400 | 44 J | 100 U | 100 U | 0.2 U | 57 | 246 J | 146 | | | | | | |
| 9/25/2012 | 680 | 34000 | 34000 | 59 J | 94 J | 3700 | 14 | 150 | 4200 | 410 | 68 J | 130 U | 0.2 U | 111 | 107 J | 146 | | | | | | |
| 12/13/2012 | 80 J | 1900 | 62000 | 250 U | 250 U | 1200 | 19 | 200 J | 2900 | 140 J | 100 J | 250 U | 0.329 | 1010 | 622 | 163 | | | | | | |
| 4/8/2013 | 20 J | 1200 | 45000 | 46 | 40 | 560 | 15 | 77 | 1500 | 99 | 85 | 25 U | 0.0601 J | 455 | 97.7 | 182 | | | | | | |
| 7/17/2013 | 500 U | 2700 | 52000 | 500 U | 500 U | 640 | 9.7 | 100 | 1300 | 500 U | 500 U | 500 U | 0.2 U | 293 | 83.3 | 188 | | | | | | |
| 10/18/2013 | 90 J | 8900 | 73000 | 91 J | 81 J | 2900 | 21 | 450 | 4600 | 44 J | 97 J | 250 U | 0.4 U | 254 | 326 | 184 | | | | | | |
| 12/11/2013 | 250 J | 21000 | 140000 | 150 J | 210 J | 4900 | 30 | 500 | 2600 | 500 UJ | 140 J | 500 U | 0.4 U | 307 | 150 | 161 | | | | | | |
| 4/14/2014 | 520 | 25000 | 98000 | 190 | 170 | 4300 | 46 | 1100 | 6800 | 57 | 87 | 50 U | 0.4 U | 137 | 115 | 112 | | | | | | |
| 8/14/2014 | 100 U | 1300 | 88000 | 200 | 180 | 7400 | 41 | 1400 | 12000 | 100 U | 59 J | 100 U | 0.4 U | 142 | 413 | 137 | 7.02 | | | | | |
| 12/10/2014 | 100 U | 1400 | 50000 | 110 | 60 J | 3900 | 39 | 700 | 11000 | 100 U | 54 J | 100 U | 0.4 U | 111 | 565 | 172 | 7.72 | | | | | |
| 3/30/2015 | 61 | 8700 | 42000 | 100 | 100 | 3600 | 28 | 1000 | 8200 | 20 U | 30 | 20 U | 0.4 U | 16.7 | 66.1 | 67.3 | 8.04 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 5S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/29/2011 | 500 U | 2400 | 62000 | 1000 | 120 J | 13000 | 42 | 250 | 300 | 81 J | 500 U | 500 U | 7.2 | 6.7 | 1650 J | 0.16 U | 6.6 | | | | | |
| 8/26/2011 | 250 U | 3000 | 53000 | 830 | 110 J | 12000 | 47 | 280 | 360 | 250 U | 250 U | 250 U | 0.642 | 5.2 | 2020 | 0.16 U | 6.64 | | | | | |
| 11/9/2011 | 500 U | 2600 | 59000 | 810 | 110 J | 9300 | 31 | 200 | 250 | 500 U | 500 U | 500 U | 0.278 | 5.8 | 1630 | 0.16 U | 6.73 | | | | | |
| 3/27/2012 | 250 U | 3000 | 48000 | 940 | 90 J | 7800 | 53 | 230 | 680 | 250 U | 250 U | 250 U | 0.0387 J | 6.6 | 1540 | 0.16 U | 6.83 | | | | | |
| 6/20/2012 | 50 U | 3100 | 57000 | 1000 | 100 | 9800 | 68 | 450 | 800 | 50 UJ | 16 J | 50 U | 0.0551 J | 5.8 | 1530 | 0.16 U | 6.61 | | | | | |
| 9/20/2012 | 10 U | 2400 | 56000 | 710 | 82 | 10000 | 51 | 360 | 810 | 9.3 J | 13 | 10 U | 0.623 | 5.3 | 1310 | 0.16 U | 6.83 | | | | | |
| 12/11/2012 | 100 U | 1600 | 29000 | 550 | 47 J | 4900 | 33 | 180 | 930 J | 100 U | 100 U | 100 U | 0.0851 J | 10.3 | 1000 | 0.16 U | 6.7 | | | | | |
| 4/5/2013 | 25 U | 2300 | 39000 | 720 | 69 | 7800 | 58 | 350 | 2100 J | 25 U | 11 J | 25 U | 0.258 | 5.9 | 1390 | 0.16 U | | | | | | |
| 7/9/2013 | 50 U | 1900 | 37000 | 710 | 68 | 7200 | 39 | 230 | 2700 | 50 U | 11 J | 50 U | 0.205 | 8 | 1440 | 0.16 U | 6.89 | | | | | |
| 10/10/2013 | 250 U | 2300 | 37000 | 790 | 76 J | 7800 | 56 | 370 | 2600 | 250 U | 250 U | 250 U | 0.17 J | 6.9 | 1390 | 0.16 U | | | | | | |
| 12/6/2013 | 100 U | 1700 | 27000 | 580 | 56 J | 5100 | 45 | 250 | 3100 | 100 U | 100 U | 100 U | 0.0705 J | 8.2 | 1120 | 0.16 U | 6.39 | | | | | |
| 4/11/2014 | 50 UJ | 1800 | 26000 | 640 | 61 | 5100 | 46 | 350 | 5300 | 50 U | 50 U | 50 U | 0.0849 J | 9.1 | 1310 J+ | 0.16 U | 6.84 | | | | | |
| 8/12/2014 | 50 U | 1700 | 29000 | 570 | 43 J | 3700 | 60 | 330 | 5800 | 50 U | 50 U | 50 U | 0.427 | 7.1 | 2760 J- | 0.16 U | 6.83 | | | | | |
| 12/2/2014 | 20 U | 1700 | 26000 | 560 | 48 | 4200 | 60 | 440 | 6700 | 20 U | 20 U | 20 U | 0.196 J | 8.6 | 1360 | 0.16 U | 6.49 | | | | | |
| 4/1/2015 | 20 U | 1100 | 25000 | 490 | 44 | 3900 | 69 | 420 | 5700 | 20 U | 20 U | 20 U | 0.0805 J | 6.3 | 1320 | 0.16 U | | | | | | |
| 10/21/2015 | 20 U | 1300 | 22000 | 450 | 39 | 3100 | 100 | 340 | 5900 | 20 U | 20 U | 20 U | 0.353 J | 6.8 | | | 6.51 | | | | | |
| 5/18/2016 | 20 U | 1200 | 19000 D | 420 | 36 | 2500 | 110 | 340 | 9600 D | 20 U | 20 U | 20 U | 0.157 J | 6.2 | 1390 | 0.10 U | 6.73 | | | | | |
| 4/20/2017 | 500 U | 980 | 11000 | 250 J | 500 U | 1900 | 28 | 51 | 3500 | 500 U | 500 U | 500 U | 0.12 | 4.6 | 1300 | 1.0 U | 6.8 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 6D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/14/2008 | 1000 J | 100000 | 17000 | 5.0 U | 5.0 U | 820 J | 6.5 | 16 | 62 | 500 J | 5.0 U | 5.0 U | | 6.68 | 1030 | | | | | | | |
| 7/22/2008 | 5000 U | 2200 J | 140000 | 380 J | 5000 U | 1200 J | 11 | 37 | 100 | 5000 U | 5000 U | 5000 U | | 627 | 1220 | | | | | | | |
| 9/29/2008 | 2500 U | 2800 | 92000 | 540 J | 160 J | 1900 J | 12 | 14 | 71 | 2500 U | 2500 U | 2500 U | | 565 | 610 | | | | | | | |
| 12/15/2008 | 5.0 U | 310 J | 17000 | 230 J | 29 J | 170 J | 3.6 | 12 | 56 | 41 J | 5.0 U | 5.0 U | | 266 | 4.02 | | | | | | | |
| 6/4/2009 | 500 U | 110 J | 11000 | 53 J | 500 U | 650 J | 8.9 | 53 J | 23 | 34 J | 500 U | 500 U | 0.0619 J | 199 | 12.9 | 40.5 | | | | | | |
| 10/12/2009 | 250 U | 42 J | 8200 | 57 J | 250 U | 2800 | 21 | 710 | 1900 | 30 J | 14 J | 250 U | 1.59 | 701 | 36.7 | 43.8 | | | | | | |
| 7/16/2010 | 100 U | 300 | 8100 | 54 J | 19 J | 4000 | 33 | 650 | 4500 | 100 U | 36 J | 100 U | 0.079 J | 870 | 3.2 J | 92 | | | | | | |
| 6/29/2011 | 7.9 | 400 | 610 | 59 | 8.3 | 2000 | 16 | 1800 | 9400 | 8 | 59 | 5 U | 0.0369 J | 989 | 4.3 J | 113 | 6.4 | 2.4E+03 | 3.9E+02 | 2.2E+05 | 1.0E+00 | 8.6E+04 |
| 8/23/2011 | 6.2 J | 510 | 2100 | 48 | 13 | 1900 | 60 | 1800 | 8000 | 4.3 J | 50 | 10 U | 0.016 J | 817 | 6.8 J | 147 | 6.83 | 2.3E+02 | 5.6E+01 | 1.8E+04 | 0.7 U | 5.4E+03 |
| 11/3/2011 | 4.1 J | 100 | 89 | 4.7 J | 1.4 J | 35 | 1.8 J | 63 | 1700 | 0.86 J | 2.5 J | 5 U | 0.0203 J | 28.8 | 21.6 | 6.3 | 11.77 | 4.4E+01 | 1.4E+01 | 3.0E+02 | 0.5 U | 9.8E+02 |
| 11/9/2011 | 4.1 J | 130 | 390 | 14 | 2.2 J | 110 | 4.2 J | 170 | 2700 | 5 U | 10 | 5 U | 0.0422 J | 170 | 8 | 15.4 | | | | | | |
| 3/22/2012 | 5 U | 30 | 190 | 39 | 5 U | 70 | 35 | 2200 | 14000 | 5 U | 35 | 5 U | 0.0256 J | 762 J | 17 | 81.6 | 6.88 | 6.8E+04 | 1.6E+04 | 3.2E+06 | 6.1E+02 | 2.4E+06 |
| 6/21/2012 | 8.6 J | 2200 | 21000 | 83 | 26 | 1600 | 24 | 980 | 8000 | 25 UJ | 75 | 25 U | 0.0336 J | 578 | 1050 J | 84.4 | 6.99 | 2.1E+04 | 7.0E+03 | 1.9E+06 | 2.4E+02 | 1.2E+06 |
| 9/20/2012 | 2.1 J | 660 | 5100 | 54 | 9.7 | 2100 | 7.2 J | 1300 J | 7200 J | 3.8 J | 46 | 5 U | 0.2 U | 563 | 2.1 J | 111 | 6.79 | 1.3E+04 | 1.2E+03 | 2.2E+06 | 8.7E+04 | 1.1E+06 |
| 12/6/2012 | 100 U | 850 | 38000 | 78 J | 38 J | 1800 | 20 | 330 | 8100 | 100 U | 74 J | 100 U | 0.2 U | 502 | 24.1 | 149 | 6.9 | 6.3E+03 | 2.2E+02 | 1.2E+05 | 6.6E+03 | 3.1E+04 |
| 4/9/2013 | 250 U | 2400 | 44000 | 92 J | 250 U | 1000 | 9.7 | 99 | 2800 | 250 U | 83 J | 250 U | 0.2 U | 466 | 428 J | 152 | | 3.0E+04 | 5.2E+02 | 2.0E+05 | 1.7E+04 | 6.8E+03 |
| 7/16/2013 | 100 U | 460 | 14000 | 42 J | 100 U | 480 | 21 | 210 | 2600 | 100 U | 30 J | 100 U | 0.2 U | 366 | 401 | 167 | 7 | 1.7E+04 | 1.4E+03 | 1.6E+05 | 1.2E+04 | 1.5E+02 |
| 10/10/2013 | 50 U | 100 | 9000 | 28 J | 11 J | 280 | 9.7 | 300 | 3700 | 50 U | 19 J | 50 U | 0.0858 J | 108 | 8.1 | 3 | 7.13 | 4.1E+04 | 7.5E+03 | 1.0E+06 | 4.4E+05 | 7.5E+04 |
| 12/13/2013 | 4.6 J | 3600 | 30000 J | 70 | 40 | 1900 | 29 | 1000 | 4000 | 2.6 J | 60 | 10 U | 0.4 U | 271 | 254 | 132 | | 1.2E+05 | 1.4E+03 | 9.7E+05 | 6.4E+05 | 1.4E+05 |
| 4/15/2014 | 1 U | 6.5 | 520 | 6.8 | 0.93 J | 150 | 5 U | 55 | 360 | 1 U | 3.5 | 1 U | 0.352 J | 53.3 | 37.1 | 2.7 | | 2.5E+04 | 2.0E+02 | 1.5E+05 | 1.3E+03 | 4.1E+04 |
| 8/19/2014 | 10 U | 890 | 18000 | 45 | 19 | 3000 | 36 | 1800 | 10000 | 10 U | 37 | 10 U | 0.156 J | 291 | 325 | 32.5 | | 3.1E+04 | 3.3E+03 | 1.4E+06 | 6.2E+03 | 1.7E+04 |
| 12/4/2014 | 10 U | 38 | 8300 | 49 | 6.2 J | 4800 | 27 | 3400 | 6500 | 10 U | 46 | 10 U | 0.476 | 498 | 110 | 20.7 | 6.45 | 1.1E+04 | 8.6E+02 | 3.4E+05 | 6.2E+03 | 7.8E+03 |
| 3/26/2015 | 1 U | 3.6 | 1800 | 55 | 1.5 | 4500 | 25 | 3700 | 6100 | 1 U | 55 | 3.8 | 4.44 | 446 | 43.2 | 10 | | 2.3E+04 | 5.7E+03 | 3.8E+06 | 6.9E+04 | 2.0E+05 |
| 10/21/2015 | 10 U | 30 | 8100 | 77 | 10 U | 6700 | 66 | 5600 | 6200 | 10 U | 48 | 10 U | 0.232 J | 561 | | | 6.59 | | | | | |
| 5/10/2016 | 1.0 U | 8.5 | 2400 D | 68 | 1.4 | 410 D | 33 | 4700 D | 14000 D | 1.0 U | 43 | 3.7 | 0.821 | 482 | 92.7 | 12.6 | 6.9 | 8.2E+02 | 4.2E+04 | 1.6E+05 | 7.1E+03 | 2.3E+04 |
| 9/28/2016 | 250 UJ | 250 UJ | 3500 J | 250 UJ | 250 UJ | 690 J | 63 J | 5100 J | 13000 J | 250 UJ | 250 UJ | 250 UJ | 0.12 | 500 | | | 6.84 | | | | | |
| 4/20/2017 | 25 U | 25 U | 610 | 33 | 25 U | 720 | 6 J | 640 J | 3000 J | 25 U | 27 | 25 U | 0.082 J | 310 | 61 | 22 | 7.24 | 4.9E+02 | 2.1E+04 | 3.1E+05 | 3.3E+04 | 3.1E+04 |
| 10/11/2017 | 400 U | 130 J | 9300 | 400 U | 400 U | 3600 | 25 J | 1200 J | 12000 J | 400 U | 400 U | 400 U | 0.100 U | 260 | | | 6.71 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 6S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/1/2011 | 100 U | 28 J | 10000 | 170 | 16 J | 1400 | 13 | 59 | 1200 | 100 U | 100 U | 100 U | 104 | 1400 | 244 | 1.3 | 5.59 | | | | | |
| 8/26/2011 | 25 U | 22 J | 8000 | 340 | 8.4 J | 11000 | 30 | 630 | 4600 | 25 U | 16 J | 25 U | 0.719 | 385 | 122 | 36.9 | 6.6 | | | | | |
| 11/7/2011 | 25 U | 9.7 J | 2700 | 270 | 25 U | 3400 | 77 | 3900 | 8000 | 25 U | 15 J | 25 U | 4.63 | 177 | 190 | 13.4 | 6.66 | | | | | |
| 3/23/2012 | 25 U | 25 U | 4300 | 220 | 8.2 J | 3800 | 77 | 920 | 8700 | 25 U | 8.4 J | 25 U | 29.6 | 48.3 | 372 | 0.35 | 6.58 | | | | | |
| 6/22/2012 | 50 U | 50 U | 3900 | 200 | 50 U | 3100 | 78 | 510 | 11000 | 50 UJ | 50 U | 50 U | 38.5 | 47.9 | 173 J | 0.31 | 6.18 | | | | | |
| 9/19/2012 | 50 U | 50 U | 1500 | 88 | 50 U | 2700 | 74 | 320 | 7900 | 50 U | 50 U | 50 U | 35.7 | 56.3 | 140 J | 0.26 | 6.76 | | | | | |
| 12/10/2012 | 10 UJ | 4.1 J | 3300 | 94 | 6.5 J | 2400 | 68 | 360 | 10000 | 10 U | 6.3 J | 10 UJ | 29.1 | 48.2 | 209 | 0.35 | 6.49 | | | | | |
| 4/9/2013 | 50 U | 50 U | 3300 | 110 | 50 U | 1900 | 45 | 450 | 11000 | 50 U | 50 U | 50 U | 27.8 | 39.8 | 184 J | 0.68 | 6.38 | | | | | |
| 7/9/2013 | 5 U | 2.1 J | 1600 | 110 | 4 J | 1600 | 22 | 220 | 6800 | 5 U | 3.7 J | 5 U | 36.9 | 50.5 | 85.5 | 0.22 | 6.8 | | | | | |
| 10/14/2013 | 10 U | 10 U | 1000 | 57 | 1.9 J | 1100 | 15 | 110 | 7400 | 10 U | 10 U | 10 U | 32.3 | 55.8 | 88.2 | 0.25 | 6.37 | | | | | |
| 12/9/2013 | 10 U | 4.5 J | 2400 | 82 | 6.6 J | 990 | 72 | 370 | 11000 | 10 U | 4.1 J | 10 U | 27.5 | 45.7 | 137 | 0.32 | | | | | | |
| 4/16/2014 | 1 U | 14 | 8600 | 140 | 13 | 3600 | 110 | 520 | 11000 | 1 U | 8.4 | 1 U | 15.5 | 28.8 | 337 | 2.3 | 6.67 | | | | | |
| 8/20/2014 | 2 U | 3.8 | 3300 | 93 | 5.5 | 1300 | 32 J | 140 J | 11000 J | 2 U | 3 | 2 U | 24 | 42.9 | 134 | 0.22 | 6.19 | | | | | |
| 12/10/2014 | 1 U | 2.1 | 1200 | 51 | 3.9 | 620 | 25 J | 140 J | 7600 J | 1 U | 2.4 | 1 U | 34.5 | 39.9 | 113 | 0.14 J | 6.39 | | | | | |
| 3/31/2015 | 1 UJ | 2.6 J | 400 J | 12 J | 1.2 J | 160 J | 30 | 60 | 15000 | 1 UJ | 0.85 J | 1 UJ | 10.8 | 30.1 | 195 | 0.8 | 7.15 | | | | | |
| 10/21/2015 | 1 UJ | 0.85 J | 480 J | 29 J | 0.72 J | 250 J | 9 | 87 | 10000 | 1 UJ | 1.9 J | 1 UJ | 0.423 | 32.7 | | | 6.45 | | | | | |
| 5/13/2016 | 10 U | 13 | 5500 D | 150 | 9.4 J | 1600 | 42 | 270 | 12000 D | 10 U | 10 U | 10 U | 4.77 | 17.1 | 366 | 5.7 | 6.45 | | | | | |
| 9/27/2016 | 67 UJ | 67 UJ | 1300 J | 54 J | 67 UJ | 610 J | 2.4 J | 21 J | 2700 DJ | 67 UJ | 67 UJ | 67 UJ | 0.097 J | 32 | | | 6.51 | | | | | |
| 4/14/2017 | 100 U | 100 U | 3500 | 89 J | 100 U | 1400 | 14 | 120 | 3400 | 100 U | 100 U | 100 U | 5.4 | 12 | 320 | 1.0 U | 6.82 | | | | | |
| 10/11/2017 | 100 U | 100 U | 1800 | 100 | 100 U | 3700 | 15 | 180 | 5300 | 100 U | 100 U | 100 U | 4 | 21 | | | 6.53 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 7D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/16/2008 | 950 J | 160000 | 27000 | 5.0 U | 5.0 U | 860 J | 7.2 | 18 | 80 | 5.0 U | 5.0 U | 5.0 U | | 8.94 | 1170 | | | | | | | |
| 7/24/2008 | 5000 UJ | 5000 UJ | 120000 J | 5000 UJ | 5000 UJ | 940 J | 7.4 J | 37 J | 76 J | 5000 UJ | 5000 UJ | 5000 UJ | | 417 J | 984 J | | | | | | | |
| 9/30/2008 | 5000 U | 2300 J | 100000 | 840 J | 280 J | 1700 J | 7.5 | 13 | 59 | 5000 U | 5000 U | 5000 U | | 531 | 724 | | | | | | | |
| 12/15/2008 | 5.0 U | 2400 | 84000 | 400 J | 110 J | 2600 | 7.8 J | 6.3 J | 230 J | 5.0 U | 66 J | 5.0 U | | 476 | 72.3 | | | | | | | |
| 6/4/2009 | 2500 U | 2600 | 50000 | 2500 U | 2500 U | 6300 J | 5.4 | 70 | 1100 | 2500 U | 2500 U | 2500 U | 0.0703 J | 483 | 42.4 | 268 | | | | | | |
| 6/5/2009 | 2500 U | 3500 | 73000 | 190 J | 2500 U | 3000 | 10 UJ | 29 J | 590 J | 2500 U | 130 J | 2500 U | | | | | | | | | | |
| 10/13/2009 | 57 J | 4500 J | 58000 | 180 J | 140 J | 3900 | 10 U | 420 | 4600 J | 500 U | 150 J | 500 U | 0.0461 J | 506 | 86.2 | 178 | | | | | | |
| 7/16/2010 | 24 J | 1600 | 27000 | 63 | 66 | 790 | 33 U | 150 | 7200 | 50 U | 75 | 50 U | 0.2 U | 255 | 413 | 195 | | | | | | |
| 6/24/2011 | 290 | 48000 | 63000 | 120 J | 160 J | 1500 | 6.2 J | 28 J | 1600 J | 94 J | 62 J | 250 U | 0.0354 J | 58.1 | 1640 | 155 | 6.8 | | | | | |
| 8/23/2011 | 150 | 19000 | 26000 | 48 J | 61 J | 530 | 15 | 57 | 1300 | 25 J | 36 J | 100 U | 0.0629 J | 79.9 | 1890 J | 214 | 7.56 | | | | | |
| 11/8/2011 | 290 | 25000 | 32000 | 72 J | 83 J | 1400 | 11 | 160 | 4200 | 46 J | 54 J | 250 U | 0.0461 J | 118 | 842 J | 168 | 5.99 | | | | | |
| 3/20/2012 | 180 | 15000 | 19000 | 42 J | 43 J | 890 | 17 | 270 | 4000 | 60 J | 42 J | 100 U | 0.0203 J | 29.4 | 1020 J | 284 | 7.17 | | | | | |
| 6/26/2012 | 350 | 25000 | 31000 | 52 J | 91 J | 520 | 11 | 87 | 2600 | 270 | 77 J | 250 UJ | 0.2 U | 25.5 | 950 | 184 | 7.31 | | | | | |
| 9/25/2012 | 460 | 27000 | 32000 | 51 J | 85 J | 900 | 20 | 170 | 2900 | 260 | 81 J | 130 U | 0.2 U | 29.1 | 358 J | 73.2 | 6.88 | | | | | |
| 12/10/2012 | 49 J | 1200 | 51000 | 56 J | 250 U | 650 | 15 | 280 | 3900 | 78 J | 120 J | 250 UJ | 0.13 J | 689 | 965 | 293 | 5.95 | | | | | |
| 4/4/2013 | 68 | 840 | 28000 | 58 | 35 J | 1000 | 32 | 430 | 4400 | 140 | 190 | 50 U | 0.2 U | 60.5 | 1300 | 249 | 7.41 | | | | | |
| 7/12/2013 | 63 J | 1400 | 21000 | 70 J | 250 U | 1300 | 34 | 340 | 4700 | 49 J | 100 J | 250 U | 0.2 U | 36.7 | 1150 | 220 | 7.34 | | | | | |
| 10/11/2013 | 86 J | 830 | 31000 | 76 J | 250 U | 1800 | 30 | 400 | 8400 | 58 J | 93 J | 250 U | 0.4 U | 63.6 | 293 | 219 | 6.76 | | | | | |
| 12/12/2013 | 42 J | 490 | 40000 | 66 | 49 J | 1100 | 27 | 300 | 6200 | 89 | 270 | 50 U | 0.4 U | 72.9 | 927 | 228 | 6.99 | | | | | |
| 4/8/2014 | 60 J | 1500 | 50000 | 94 J | 76 J | 2100 | 55 | 450 | 7100 | 100 U | 69 J | 100 U | 0.4 U | 81.3 | 1750 | 136 | 7.12 | | | | | |
| 8/21/2014 | 100 U | 330 | 57000 | 110 | 78 J | 2700 | 36 | 380 | 7300 | 100 U | 97 J | 100 U | 0.4 U | 90.4 | 942 | 168 | 6.82 | | | | | |
| 12/9/2014 | 25 | 450 | 34000 | 72 | 39 | 2400 | 27 | 410 | 8800 | 13 J | 64 | 20 U | 0.056 J | 50.7 | 1170 | 161 | 6.86 | | | | | |
| 4/1/2015 | 19 J | 230 | 32000 | 90 | 35 | 7500 | 34 | 1100 | 10000 | 20 U | 46 | 20 U | 0.0398 J | 51.5 | 644 | 133 | 5.34 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
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| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 7S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/1/2011 | 5 U | 5 U | 2 J | 5 U | 5 U | 14 | 1.2 J | 2.8 J | 52 J | 5 U | 9.2 | 5 U | 3.14 | 6.9 | 4820 | 0.16 U | 6.53 | | | | | |
| 8/26/2011 | 5 U | 5 U | 13 | 5 U | 5 U | 11 | 5 U | 1.2 J | 18 | 5 U | 140 | 5 U | 0.45 | 7.6 | 4530 | 0.16 U | 5.68 | | | | | |
| 11/10/2011 | 5 U | 5 U | 3 J | 5 U | 5 U | 14 | 2 J | 4.7 J | 85 | 5 U | 41 | 5 U | 3.17 | 6 | 3840 | 0.16 U | 6.66 | | | | | |
| 3/27/2012 | 5 U | 5 U | 11 | 5 U | 5 U | 1.7 J | 5 U | 5 U | 7.4 J | 5 U | 84 | 5 U | 0.0784 J | 6.3 | 3990 | 0.16 U | | | | | | |
| 6/22/2012 | 5 U | 5 U | 3.7 J | 5 U | 5 U | 2.8 J | 5 U | 5 U | 10 J | 5 UJ | 54 | 5 U | 0.473 | 6.3 | 4090 J | 0.16 U | 6.46 | | | | | |
| 9/27/2012 | 5 U | 5 U | 3.7 J | 5 U | 5 U | 11 | 1 J | 5 U | 47 | 5 U | 60 | 5 U | 0.607 | 5.1 | 3900 | 0.16 U | 6.77 | | | | | |
| 12/6/2012 | 5 U | 5 U | 9.8 | 5 U | 5 U | 5 U | 5 U | 5 U | 4.9 J | 5 U | 150 | 5 U | 0.306 | 3.5 | 2620 | 0.16 U | 6.47 | | | | | |
| 4/5/2013 | 5 U | 5 U | 3.7 J | 5 U | 5 U | 4.3 J | 5 U | 1.7 J | 24 J | 5 U | 49 | 5 U | 0.621 | 4 | 3300 | 0.16 U | | | | | | |
| 7/17/2013 | 5 U | 5 U | 5 | 5 U | 5 U | 1.3 J | 5 U | 5 U | 6.9 | 5 U | 78 | 5 U | 1.36 | 4.5 | 3060 | 0.16 U | 6.81 | | | | | |
| 10/17/2013 | 5 U | 5 U | 6.6 | 5 U | 5 U | 1.8 J | 5 U | 5 U | 9.1 | 5 U | 99 | 5 U | 0.594 | 4.3 | 2900 | 0.16 U | 6.55 | | | | | |
| 12/11/2013 | 5 U | 5 U | 4.9 J | 5 U | 5 U | 1.2 J | 5 U | 5 U | 3.9 J | 5 U | 83 | 5 U | 2.76 | 5.3 | 2120 | 0.16 U | | | | | | |
| 4/16/2014 | 1 U | 1 U | 2 | 1 U | 1 U | 1.4 | 5 U | 5 U | 5.9 | 1 U | 45 | 1 U | 0.4 U | 4 | 1140 | 0.16 U | | | | | | |
| 8/20/2014 | 1 U | 1 U | 5.6 | 1 U | 1 U | 1.6 | 5 U | 5 U | 4.3 J | 1 U | 120 | 2.1 | 2.35 | 16.7 | 1180 | 0.16 U | | | | | | |
| 12/12/2014 | 1 U | 1 U | 3.4 | 1 U | 1 U | 2.8 | 5 U | 5 U | 5.7 | 1 U | 78 | 1.1 | 0.0418 J | 4.9 | 1010 | 0.16 U | 6.8 | | | | | |
| 3/31/2015 | 1 U | 1 U | 2.2 | 1 U | 1 U | 1.9 | 5 U | 5 U | 10 | 1 UJ | 51 | 1 U | 0.166 J | 3.6 | 1590 | 0.16 U | | | | | | |
| 10/21/2015 | 1 U | 1 U | 5.1 | 1 U | 1 U | 10 | 1.1 J | 2.4 J | 61 | 1 U | 76 | 1 U | 0.963 | 4.5 | | | 6.72 | | | | | |
| 5/12/2016 | 1.0 U | 0.58 J | 8.1 | 1.0 U | 1.0 U | 3.8 | 5.0 U | 5.0 U | 5.0 U | 1.0 U | 100 | 1.0 U | 0.400 U | 5 | 3300 | 0.10 U | 6.94 | | | | | |
| 4/13/2017 | 2.5 U | 2.5 U | 30 | 2.5 U | 2.5 U | 80 | 1.9 | 1.7 | 180 | 2.5 U | 96 | 2.5 U | 0.11 | 3 | 2800 | 1.0 U | 6.95 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 8D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/14/2008 | 1200 J | 240000 | 28000 | 5.0 U | 5.0 U | 1100 J | 5.1 | 17 | 78 | 5.0 U | 5.0 U | 5.0 U | | 10.6 | 1590 | | | | | | | |
| 7/23/2008 | 1000 U | 2900 J | 110000 | 300 J | 240 J | 1500 J | 7.2 | 29 | 100 | 1000 U | 1000 U | 1000 U | | 551 | 1810 | | | | | | | |
| 9/29/2008 | 240 J | 34000 | 76000 | 420 J | 200 J | 2100 | 5.9 | 16 | 92 | 2500 U | 2500 U | 2500 U | | 190 | 2410 | | | | | | | |
| 12/15/2008 | 600 J | 66000 | 48000 | 310 J | 95 J | 2300 | 6.2 | 2 | 4.6 | 5.0 U | 5.0 U | 5.0 U | | 263 | 1210 | | | | | | | |
| 6/2/2009 | 400 J | 26000 | 21000 | 1000 U | 1000 U | 1200 | 8 | 39 | 400 | 1000 U | 1000 U | 1000 U | 0.0567 J | 166 | 1810 | 191 | | | | | | |
| 10/8/2009 | 260 J | 35000 | 54000 J | 150 J | 130 J | 1900 | 6.1 | 32 | 100 | 1000 U | 1000 U | 1000 U | 0.0317 U | 101 | 2110 | 132 | | | | | | |
| 7/15/2010 | 200 | 45000 | 48000 | 120 | 98 J | 1500 | 7.1 | 89 | 74 | 100 U | 32 J | 100 U | 0.2 U | 105 | 2300 J | 170 | | | | | | |
| 8/31/2011 | 170 | 27000 | 31000 | 82 J | 77 J | 2000 | 5.1 | 37 | 180 | 17 J | 23 J | 100 U | 0.2 U | 70.7 | 1720 | 249 | 7.03 | | | | | |
| 3/26/2012 | 400 J | 24000 | 20000 | 73 | 74 | 1800 J | 8.9 | 93 | 1800 | 110 | 45 | 5 U | 0.2 U | 57.1 | 1740 | 186 | 6.86 | | | | | |
| 6/22/2012 | 240 | 18000 | 15000 | 46 J | 45 J | 1000 | 6.6 | 82 | 1400 | 470 J | 39 J | 100 U | 0.2 U | 28.4 | 1700 J | 131 | 6.95 | | | | | |
| 9/18/2012 | 170 | 12000 | 19000 | 67 | 63 | 1900 | 17 | 210 | 2100 | 120 | 30 J | 50 U | 0.2 U | 38.4 | 1650 | 148 | 6.97 | | | | | |
| 12/13/2012 | 52 J | 1600 | 15000 | 51 J | 40 J | 1900 | 9.4 | 190 | 2800 | 100 U | 100 U | 100 U | 0.2 U | 299 | 1480 | 258 | 6.06 | | | | | |
| 4/8/2013 | 33 | 3400 | 31000 | 73 | 43 | 1800 | 6 | 97 | 2700 | 18 | 34 | 10 U | 0.2 U | 209 | 1510 | 247 | 6.93 | | | | | |
| 7/19/2013 | 250 U | 4600 | 33000 | 79 J | 250 U | 2300 | 8.3 | 130 | 1800 | 250 U | 250 U | 250 U | 0.2 U | 117 | 1790 | 157 | 6.65 | | | | | |
| 10/18/2013 | 52 J | 9900 | 44000 | 250 U | 250 U | 3000 | 19 | 350 | 3000 | 250 U | 250 U | 250 U | 0.4 U | 129 | 1230 | 190 | 6.23 | | | | | |
| 12/6/2013 | 80 J | 19000 | 50000 | 95 J | 72 J | 2700 | 24 | 310 | 3700 | 250 U | 250 U | 250 U | 0.4 U | 194 | 1340 | 126 | 6.65 | | | | | |
| 4/14/2014 | 26 J | 3500 | 35000 | 79 | 43 | 2800 | 29 | 370 | 6400 | 20 U | 23 | 20 U | 0.0866 J | 117 | 986 | 121 | 6.67 | | | | | |
| 8/22/2014 | 20 U | 1800 | 23000 | 65 | 38 | 3100 | 19 | 270 | 3200 | 20 U | 20 | 20 U | 0.4 U | 52.9 | 2010 | 142 | 6.93 | | | | | |
| 12/11/2014 | 50 U | 5100 | 39000 | 99 | 66 | 4200 | 17 | 630 | 3300 | 50 U | 29 J | 50 U | 0.4 U | 76.4 | 1860 | 153 | 7.36 | | | | | |
| 4/1/2015 | 29 J | 7100 | 37000 | 85 | 51 | 3800 | 28 | 590 | 5800 | 50 U | 26 J | 50 U | 0.4 U | 39.1 | 859 | 148 | 7.6 | | | | | |
| 10/16/2015 | 100 U | 7000 | 34000 | 91 J | 100 U | 3400 | 9.4 | 400 | 2700 | 100 U | 100 U | 100 U | 0.4 U | 93.8 | | | 7.01 | | | | | |
| 5/10/2016 | 17 | 4400 D | 27000 D | 88 | 63 | 1700 DJ | 14 | 550 D | 3600 D | 3.9 J | 25 | 5.0 U | 0.400 U | 109 | 1690 | 154 | 6.93 | | | | | |
| 9/29/2016 | 2000 UJ | 10000 J | 42000 J | 2000 UJ | 2000 UJ | 3100 J | 10 | 280 | 2500 | 2000 UJ | 2000 UJ | 2000 UJ | 0.100 U | 120 | | | 6.99 | | | | | |
| 4/20/2017 | 1000 U | 10000 | 44000 | 1000 U | 1000 U | 4900 | 15 | 520 | 3500 | 1000 U | 1000 U | 1000 U | 0.10 U | 130 | 1300 | 160 | 7.21 | | | | | |
| 10/12/2017 | 1000 U | 12000 | 41000 | 1000 U | 1000 U | 4500 | 33 | 780 | 6800 D | 1000 U | 1000 U | 1000 U | 0.100 U | 79 | | | 6.67 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 8S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/28/2011 | 25 U | 21 J | 1800 | 13 J | 18 J | 140 | 2.3 J | 6.6 | 86 | 260 | 110 | 25 U | 19.1 | 608 | 1330 J | 2.5 | 6.42 | | | | | |
| 8/25/2011 | 2.3 J | 67 | 3500 | 18 | 16 | 380 | 2.6 J | 23 | 310 | 240 | 89 | 13 U | 0.379 | 291 | 1480 J | 74.2 | 6.7 | | | | | |
| 11/10/2011 | 5 U | 9.7 | 870 | 14 | 4.6 J | 320 | 8.3 | 300 | 2300 | 83 | 67 | 4.8 J | 0.158 J | 41.3 | 1080 | 24.8 | 6.25 | | | | | |
| 3/27/2012 | 5 U | 3.6 J | 93 | 6.6 | 5 U | 85 | 17 | 210 | 3300 | 24 | 27 | 3.2 J | 0.986 | 16.7 | 1770 | 21.7 | 6.82 | | | | | |
| 6/22/2012 | 5 U | 5 U | 45 | 6.7 | 5 U | 48 | 11 | 280 | 2500 | 25 J | 29 | 1.5 J | 0.652 | 16.6 | 2210 J | 15.1 | 6.43 | | | | | |
| 9/26/2012 | 5 U | 1.2 J | 28 | 6.6 | 5 U | 52 | 19 | 340 | 4100 | 24 | 30 | 14 | 0.68 | 52.4 | 823 | 22.9 | 6.76 | | | | | |
| 12/6/2012 | 5 U | 4.4 J | 310 | 4.5 J | 1.6 J | 210 | 13 | 160 | 5800 | 26 | 22 | 2.2 J | 3.6 | 11 | 1460 | 8.6 | 6.56 | | | | | |
| 4/5/2013 | 5 U | 2 J | 63 | 1.6 J | 5 U | 150 | 18 | 280 | 4000 J | 14 | 13 | 4.9 J | 3.5 | 7.8 | 1670 | 13.6 | 6.61 | | | | | |
| 7/17/2013 | 5 U | 3.3 J | 150 | 2.2 J | 5 U | 200 | 17 | 320 | 5200 | 9.2 | 12 | 1.4 J | 1.7 | 9.6 | 1790 | 15.6 | 6.8 | | | | | |
| 10/8/2013 | 5 U | 2.6 J | 60 | 2.7 J | 5 U | 89 | 11 | 130 | 11000 | 8.3 | 12 | 2.6 J | 2 | 10.4 | 1110 | 17 | 6.59 | | | | | |
| 12/11/2013 | 5 U | 4.1 J | 39 | 3.8 J | 5 U | 50 | 24 | 310 | 12000 | 15 | 14 | 1.7 J | 0.953 | 16.3 | 1100 | 16.5 | 6.78 | | | | | |
| 4/15/2014 | 1 U | 1.7 | 12 | 0.72 J | 1 U | 12 | 13 | 32 | 4600 | 2.9 | 2.7 | 1 U | 2.41 | 6.6 | 301 | 0.17 | 6.55 | | | | | |
| 8/19/2014 | 1 U | 2.5 | 540 | 5.5 | 1.4 | 400 | 24 | 280 | 8400 | 5.5 | 6.2 | 1 U | 0.0996 J | 13.9 | 503 | 25.7 | | | | | | |
| 12/2/2014 | 1 U | 1 U | 4.2 | 1 U | 1 U | 2.3 | 5 U | 3.5 J | 320 | 1 U | 0.65 J | 1 U | 0.318 J | 5.2 | 204 | 0.16 U | 6.99 | | | | | |
| 3/27/2015 | 1 U | 1.3 | 63 | 1.5 | 1 U | 57 | 9.2 | 22 | 2700 J | 3.8 | 3 | 1 U | 0.857 | 10.1 | 356 | 0.17 | 7.95 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 9D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27/2011 | 2500 | 360000 | 57000 | 500 U | 160 J | 440 J | 5.7 | 8.7 | 50 | 400 J | 500 U | 500 U | 0.184 J | 15.2 | 1070 | 4.5 | 7.08 | | | | | |
| 8/25/2011 | 1900 | 80000 | 130000 | 360 J | 270 J | 280 J | 5.3 | 5.8 | 37 | 1600 | 500 U | 500 U | 1.08 | 1170 | 518 J | 21.3 | 6.38 | | | | | |
| 11/7/2011 | 1900 J | 190000 | 200000 | 2500 U | 440 J | 530 J | 4.6 J | 14 | 120 | 1200 J | 2500 U | 2500 U | 0.165 J | 281 | 249 | 127 | 6.41 | | | | | |
| 3/28/2012 | 900 J | 150000 | 170000 | 220 J | 330 J | 650 J | 8.9 | 87 | 850 | 400 J | 1000 U | 1000 U | 0.2 U | 118 | 361 | 99.1 | 6.41 | | | | | |
| 6/22/2012 | 600 | 77000 | 86000 | 120 J | 170 J | 610 | 23 | 110 | 3500 | 790 J | 500 U | 500 U | 0.2 U | 61.7 | 267 J | 124 | 6.8 | | | | | |
| 9/26/2012 | 450 J | 67000 | 120000 | 200 J | 330 J | 3500 | 29 | 120 | 1700 | 120 J | 500 U | 500 U | 0.2 U | 109 | 5.1 | 130 | 6.7 | | | | | |
| 12/7/2012 | 1900 | 73000 | 170000 | 290 J | 190 J | 810 | 64 | 100 | 820 | 200 J | 500 U | 500 UJ | 5.94 | 4420 | 15.8 | 87.2 | 5.91 | | | | | |
| 4/8/2013 | 1000 | 52000 | 200000 | 330 | 160 | 1300 | 45 | 340 | 1200 | 100 U | 51 J | 100 U | 116 | 2110 | 43.3 | 6 | 6.09 | | | | | |
| 7/9/2013 | 680 | 51000 | 190000 | 180 J | 240 J | 1700 | 70 | 1200 | 5700 | 250 U | 250 U | 250 U | 113 | 1040 | 46.4 | 2.6 | 6.44 | | | | | |
| 10/16/2013 | 2500 U | 7700 | 170000 | 2500 U | 500 J | 18000 | 70 | 1600 | 4900 | 1500 J | 2500 U | 2500 U | 153 | 830 | 26.8 | 0.82 | 6.16 | | | | | |
| 12/11/2013 | 650 | 75000 | 160000 | 210 J | 420 J | 31000 | 62 | 1900 | 4400 | 500 UJ | 500 U | 500 U | 30.9 | 381 | 102 | 8.1 | 6.59 | | | | | |
| 4/9/2014 | 38 | 1600 | 47000 | 120 | 160 | 70000 | 39 | 3000 | 3000 | 20 U | 20 J | 20 U | 123 | 397 | 12.4 | 0.34 | 7.41 | | | | | |
| 8/19/2014 | 85 | 16000 | 110000 | 160 | 210 | 18000 | 59 | 3300 | 8800 | 50 U | 50 U | 50 U | 1.27 | 160 | 72.8 | 48 | 6.86 | | | | | |
| 12/9/2014 | 640 | 47000 | 90000 | 100 | 160 | 5000 | 33 | 11000 | 12000 | 100 U | 100 U | 100 U | 17.6 | 255 | 49.2 | 5.1 | 6.72 | | | | | |
| 4/1/2015 | 270 | 30000 | 64000 | 110 | 170 | 10000 | 28 | 3600 | 6100 | 50 U | 50 U | 50 U | 16.7 | 124 | 25.7 | 8.2 | 5.07 | | | | | |
| 10/15/2015 | 200 U | 12000 | 76000 | 200 U | 160 J | 5400 | 89 | 10000 | 13000 | 200 U | 200 U | 200 U | 69.7 | 226 | | | 7.52 | | | | | |
| 5/16/2016 | 5.0 U | 120 | 4200 D | 14 | 10 | 700 | 54 | 8700 D | 13000 D | 5.0 U | 7 | 5.0 U | 70.9 | 402 | 5.0 U | 0.15 | 7.24 | | | | | |
| 9/29/2016 | 1000 UJ | 2900 | 26000 | 1000 U | 1000 U | 19000 | 240 J | 14000 J | 9100 J | 1000 UJ | 1000 U | 1000 U | 59 | 300 | | | 7 | | | | | |
| 4/21/2017 | 130 U | 130 U | 4200 | 130 U | 130 U | 2700 | 72 | 3200 | 5000 | 130 U | 130 U | 130 U | 19 | 320 | 7.6 J | 1.0 U | 7.89 | | | | | |
| 10/12/2017 | 2000 U | 12000 | 62000 | 2000 U | 2000 U | 8900 | 220 | 3800 | 11000 D | 2000 U | 2000 U | 2000 U | 33 | 66 | | | 6.63 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW- 9S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/30/2011 | 13 U | 2000 | 1200 | 10 J | 5.8 J | 84 | 13 | 12 | 130 | 13 U | 13 U | 2.7 J | 0.2 U | 4.6 J | 3070 J | 0.16 U | 6.55 | 4.8E+00 | 2.9 U | 1.2E+01 | 0.5 U | 0.2 J |
| 8/23/2011 | 10 U | 2900 | 1700 | 14 | 9.7 J | 91 | 14 | 9.6 | 120 J | 10 U | 10 U | 5.7 J | 0.0324 J | 4.9 | 3450 J | 0.16 U | 7.4 | 0.2 J | 1.2E+02 | 2.1E+00 | 0.5 U | 5.0E-01 |
| 11/2/2011 | 25 U | 2800 | 1800 | 17 J | 9.5 J | 66 | 5.4 | 2.8 J | 30 | 25 U | 25 U | 9.1 J | 0.0898 J | 3.4 | 5 U | 0.16 U | 6.51 | 0.4 U | 1.0E+04 | 2.0E+01 | 0.4 J | 0.1 J |
| 3/22/2012 | 25 U | 3400 | 3000 | 32 | 11 J | 81 | 4.9 J | 2.4 J | 26 | 25 U | 25 U | 10 J | 0.2 U | 3.9 | 3780 | 0.16 U | 6.51 | 6.8E+00 | 3.2E+03 | 1.5E+02 | 1.1E+01 | 0.3 J |
| 6/21/2012 | 5 U | 5100 | 2700 | 32 | 14 | 93 | 8.8 | 7.1 | 91 | 1.5 J | 5 U | 8.4 | 0.033 J | 3.4 | 3010 J | 0.16 U | 6.75 | 1.0E+00 | 1.2E+02 | 4.1E+02 | 3.9E+01 | 1.8E+00 |
| 9/24/2012 | 10 U | 2400 | 1300 | 15 | 5.3 J | 49 | 6 | 10 | 88 | 10 U | 10 U | 10 U | 0.262 | 4.7 | 3380 | 0.16 U | 6.48 | 0.7 U | 0.5 J | 0.7 U | 0.7 U | 0.7 U |
| 12/4/2012 | 50 U | 4100 | 6500 | 62 | 12 J | 12 J | 2 J | 5 U | 5 U | 50 U | 50 U | 50 U | 0.0839 J | 4.6 | 3420 | 0.16 U | 7.07 | 0.5 U | 3.2E+01 | 2.8E+00 | 0.5 U | 0.5 U |
| 4/8/2013 | 5 U | 4700 | 2500 | 27 | 11 | 49 | 3.8 J | 2.7 J | 51 | 1.6 J | 5 U | 5.2 | 0.2 U | 2.7 | 2930 | 0.16 U | 6.81 | 1.6E+00 | 4.9E+01 | 2.6E+00 | 4.3E+00 | 0.5 U |
| 7/16/2013 | 25 U | 5400 | 2500 | 21 J | 8.9 J | 40 | 3.1 J | 2.3 J | 53 | 25 UJ | 25 U | 25 U | 0.2 U | 2.7 | 3310 | 0.16 U | 6.87 | 0.5 U | 8.1E+01 | 5.4E+00 | 4.7E+00 | 0.5 U |
| 10/15/2013 | 25 U | 5700 | 3800 | 32 | 9.9 J | 42 | 4.8 J | 3.1 J | 79 | 25 U | 25 U | 25 U | 0.4 U | 3.2 | 2870 | 0.16 U | 6.63 | 0.5 U | 2.4E+01 | 2.3E+00 | 9.0E-01 | 0.5 U |
| 12/4/2013 | 50 U | 3900 | 2100 | 18 J | 50 U | 30 J | 3.5 J | 1.7 J | 43 | 50 U | 50 U | 50 U | 0.0943 J | 5 | 1990 J | 0.16 U | 6.84 | 1.1E+02 | 3.8E+01 | 3.3E+02 | 3.0E+02 | 1.1E+00 |
| 4/8/2014 | 10 U | 4000 | 1700 | 14 | 6.5 J | 43 | 6.9 | 4.5 J | 140 | 10 U | 10 U | 10 U | 0.4 U | 5.1 | 2610 | 0.16 U | 6.87 | 0.3 J | 6.0E+01 | 1.5E+00 | 0.1 J | 0.4 J |
| 8/13/2014 | 10 U | 5000 | 8900 | 85 | 13 | 110 | 13 | 13 | 720 | 10 U | 10 U | 10 U | 0.0462 J | 6 | 2630 | 0.16 U | 6.58 | 1.7E+00 | 4.5E+01 | 9.9E+01 | 8.0E-01 | 0.2 J |
| 12/2/2014 | 5 U | 4200 | 4200 | 30 | 8.3 | 52 | 5.5 | 4.6 J | 120 | 5 U | 5 U | 5 U | 0.0462 J | 4.6 | 1450 | 0.16 U | 6.78 | 0.5 U | 1.2E+02 | 8.6E+01 | 6.0E-01 | 0.1 J |
| 3/24/2015 | 1 U | 2300 | 2900 | 34 | 7.6 | 49 | 5.8 | 3.5 J | 270 J | 1 U | 1 U | 0.91 J | 0.4 U | 2.4 | 1870 | 0.16 U | 7.1 | 3.1E+00 | 4.7E+01 | 8.0E+01 | 5.9E-01 | 7.0E-01 |
| 10/22/2015 | 10 U | 5800 | 4200 | 31 | 11 | 110 | 5.9 | 9 | 91 | 10 U | 10 U | 10 U | 0.055 J | 2.6 | | | 6.65 | | | | | |
| 5/9/2016 | 1.0 U | 2400 D | 3400 D | 28 | 7.6 | 11 | 1.3 J | 5.0 U | 17 | 1.0 U | 1.0 U | 0.64 J | 0.400 U | 6.1 | 1710 | 0.10 U | 7.11 | 0.5 U | 1.2E+03 | 9.5E+01 | 0.2 J | 2.2E+01 |
| 4/19/2017 | 200 U | 2800 | 3900 | 200 U | 200 U | 200 U | 1.9 | 0.88 | 80 | 200 U | 200 U | 200 U | 0.032 J | 1.7 | 2200 | 1.0 U | 7.37 | 7.0E-01 | 1.1E+03 | 2.0E+02 | 0.5 J | 1.0E+02 |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-10D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27/2011 | 170 | 5400 | 7300 | 15 J | 82 | 260 J | 1.3 J | 12 | 48 | 1500 | 94 | 50 U | 0.434 | 6.8 | 913 | 0.74 | 7.43 | | | | | |
| 8/25/2011 | 680 | 18000 J | 12000 | 250 U | 48 J | 71 J | 10 | 4.1 J | 43 | 3300 | 250 U | 250 U | 6.28 | 8380 | 332 J | 43.4 | 5.93 | | | | | |
| 11/4/2011 | 60 | 5800 | 14000 | 26 J | 41 J | 100 | 19 | 20 | 48 | 1800 | 130 | 50 U | 14.2 | 637 | 41.7 | 110 | 6.2 | | | | | |
| 3/26/2012 | 68 | 12000 | 28000 | 47 J | 53 | 220 | 33 | 75 | 170 | 410 | 190 | 50 U | 52.1 | 648 | 44 | 30.9 | 5.87 | | | | | |
| 6/26/2012 | 250 U | 750 | 30000 | 42 J | 83 J | 210 J | 27 | 120 | 810 | 250 | 240 J | 250 UJ | 69.5 | 450 | 53.8 | 4.8 | 6.09 | | | | | |
| 9/24/2012 | 100 U | 1000 | 24000 | 30 J | 52 J | 360 | 21 | 77 | 1600 | 130 | 200 | 100 U | 46.1 J | 310 | 27.4 | 2.8 | 6.39 | | | | | |
| 12/12/2012 | 350 J | 52000 | 190000 | 1000 U | 1000 U | 520 J | 9.1 | 35 | 980 | 370 J | 1000 U | 1000 UJ | 42.4 | 878 | 6.7 | 4.7 | 5.79 | | | | | |
| 4/11/2013 | 170 J | 7600 | 140000 | 1000 U | 210 J | 3300 | 15 | 280 | 1200 | 380 J | 260 J | 1000 U | 124 | 652 | 22.9 | 7.9 | 5.98 | | | | | |
| 7/9/2013 | 21 J | 860 | 91000 | 90 J | 120 | 3400 | 12 | 360 | 2800 | 220 | 210 | 100 U | 50.4 | 414 | 4.1 J | 13.3 | 6.42 | | | | | |
| 10/14/2013 | 1000 U | 740 J | 99000 | 1000 U | 190 J | 23000 | 24 | 1700 | 7700 | 1000 U | 230 J | 1000 U | 141 | 520 | 2.3 J | 3.5 | 6.02 | | | | | |
| 12/12/2013 | 500 U | 3100 | 87000 | 91 J | 170 J | 17000 | 18 | 2000 | 5600 | 160 J | 240 J | 500 U | 63.2 | 452 | 19.1 | 11 | 6.21 | | | | | |
| 4/9/2014 | 20 U | 360 | 37000 | 63 | 59 | 14000 | 27 | 8300 | 11000 | 68 | 150 | 20 U | 82 | 325 | 5 U | 1.8 | 7.03 | | | | | |
| 8/21/2014 | 100 U | 800 | 87000 | 110 | 150 | 15000 | 28 | 6500 | 8300 | 160 | 360 | 100 U | 13.1 | 434 | 7.7 | 11.2 | 6.37 | | | | | |
| 12/9/2014 | 50 U | 3200 | 76000 | 95 | 110 | 11000 | 19 | 5600 | 9800 | 190 | 340 | 50 U | 5.55 | 436 | 20 | 35.2 | 6.55 | | | | | |
| 4/1/2015 | 11 J | 960 | 32000 | 55 | 49 | 7700 | 20 | 8900 | 8000 | 85 | 190 | 20 U | 6.69 | 262 | 6.8 | 15.9 | 6.95 | | | | | |
| 10/13/2015 | 24 | 1100 | 30000 | 61 | 44 | 2500 | 23 | 12000 | 8500 | 180 | 370 | 2 U | 19.6 | 387 | | | 7.23 | | | | | |
| 5/17/2016 | 15 | 1300 D | 19000 D | 55 | 42 | 4100 D | 25 | 9600 D | 9600 D | 110 | 350 | 2.0 U | 19.4 | 488 | 12.4 | 21.4 | 6.96 | | | | | |
| 9/29/2016 | 500 U | 800 | 15000 | 500 U | 500 U | 3600 | 51 J | 5800 J | 5300 J | 500 U | 280 J | 500 UJ | 19 | 520 | | | 5.93 | | | | | |
| 4/21/2017 | 500 U | 1100 | 18000 | 500 U | 500 U | 6600 | 74 | 4600 | 6400 | 500 U | 310 J | 500 U | 23 | 590 | 12 J | 10 | 6.52 | | | | | |
| 10/12/2017 | 500 U | 1400 | 18000 | 500 U | 500 U | 6200 | 130 | 8400 D | 10000 D | 500 U | 220 J | 500 U | 21 | 320 | | | 6.29 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-10S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/30/2011 | 5 U | 5 U | 1.5 J | 5 U | 5 U | 23 | 1.8 J | 1.1 J | 19 | 5 U | 5 U | 5 U | 0.0776 J | 6.2 J | 2980 J | 0.16 U | 6.06 | 0.5 U | 3.3E+01 | 4.6E+00 | 0.5 U | 7.0E-01 |
| 8/25/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 1.9 J | 5 U | 5 U | 6 J | 5 U | 5 U | 5 U | 0.152 J | 5.5 | 3550 J | 0.16 U | 6.73 | 0.5 J | 3.3E+02 | 1.9E+00 | 0.3 J | 0.3 J |
| 11/3/2011 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 6.4 J | 5 U | 5 U | 5 U | 0.245 | 2.7 | 3080 | 0.16 U | 7.04 | 0.7 U | 1.2E+02 | 0.7 U | 0.7 U | 0.7 U |
| 3/22/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5.2 J | 5 U | 5 U | 5 U | 0.2 U | 2.5 | 3150 | 0.16 U | 6.94 | 5.8E+00 | 4.2E+01 | 1.6E+01 | 0.5 U | 5.0E+00 |
| 6/25/2012 | 5 U | 5 U | 5 U | 5 U | 5 U | 2.7 J | 5 U | 5 U | 13 J | 5 U | 5 U | 5 U | 0.2 U | 2.4 | 2820 | 0.16 U | 6.87 | 0.5 U | 3.8E+01 | 1.9E+00 | 0.5 U | 0.2 J |
| 9/24/2012 | 5 U | 2.6 J | 1.7 J | 5 U | 5 U | 5 U | 5 U | 5 U | 6.8 J | 5 U | 5 U | 5 U | 0.2 U | 2.8 | 2980 | 0.16 U | | 0.5 J | 1.6E+01 | 3.3E+00 | 1.0E+00 | 0.5 U |
| 12/4/2012 | 5 U | 1.4 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.2 U | 2.6 | 2930 | 0.16 U | 7.15 | 0.5 U | 3.3E+00 | 0.5 J | 0.5 U | 0.5 U |
| 4/4/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 3.2 J | 1 J | 5 U | 44 | 5 U | 5 U | 5 U | 0.2 U | 2 | 2770 | 0.16 U | | 0.5 U | 1.9E+02 | 4.1E+00 | 0.5 U | 0.5 U |
| 7/16/2013 | 5 U | 7.6 | 0.96 J | 5 U | 5 U | 1.3 J | 5 U | 5 U | 7.6 | 5 UJ | 5 U | 5 U | 0.2 U | 1.9 | 2840 | 0.16 U | 7 | 0.5 U | 2.4 J | 4.5E+00 | 4.2E+00 | 0.5 U |
| 10/10/2013 | 5 U | 1.3 J | 5 U | 5 U | 5 U | 4.3 J | 1.4 J | 5 U | 72 | 5 U | 5 U | 5 U | 0.4 U | 2.8 | 2710 | 0.16 U | | 0.5 U | 1.1E+01 | 2.6E+00 | 8.0E-01 | 0.5 U |
| 12/4/2013 | 5 U | 5 U | 5 U | 5 U | 5 U | 4.2 J | 1.3 J | 5 U | 50 | 5 U | 5 U | 5 U | 0.4 U | 5.3 | 2550 J | 0.16 U | | 8.0E-01 | 4 J | 6.3E+00 | 4.7E+00 | 0.1 J |
| 4/10/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 2.9 | 5 U | 5 U | 33 | 1 U | 1 U | 1 U | 0.4 U | 3.8 | 2690 | 0.16 U | 6.53 | 2.2E+00 | 8.2E+00 | 4.1E+00 | 0.1 J | 0.2 J |
| 8/12/2014 | 1 U | 0.87 J | 1 U | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1 U | 1 U | 1 U | 0.4 U | 3.2 | 2190 | 0.16 U | 6.98 | 1.9E+00 | 1.2E+03 | 3.8E+01 | 7.0E-01 | 0.1 J |
| 12/9/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 2.8 | 5 U | 5 U | 18 | 1 U | 1 U | 1 U | 0.4 U | 1.3 | 2760 | 0.16 U | | 1.1E+00 | 4.1E+01 | 1.3E+01 | 0.5 U | 0.5 U |
| 3/26/2015 | 1 U | 1 U | 1 U | 1 U | 1 U | 3 | 5 U | 1.1 J | 20 | 1 U | 1 U | 1 U | 0.4 U | 1.9 | 2180 | 0.16 U | | 3.0E+00 | 1.3E+01 | 6.9E+01 | 0.1 J | 6.0E-01 |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-11D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/29/2011 | 560 | 11000 | 2200 | 250 U | 1000 | 78 J | 2.3 J | 2.5 J | 16 | 78000 | 680 | 250 U | 0.445 | 3.5 | 797 J | 0.67 | 6.67 | 6.9E+01 | 1.8E+01 | 3.7E+01 | 3.3E+00 | 3.1E+00 |
| 8/25/2011 | 500 | 7600 | 2400 | 250 U | 490 | 250 U | 5 U | 5 U | 8.3 J | 48000 | 270 | 250 U | 0.495 | 11 | 833 J | 10 | 5.36 | 2.7E+01 | 1.4E+03 | 7.1E+02 | 1.2E+02 | 1.2E+02 |
| 11/1/2011 | 46 J | 570 | 1800 | 50 U | 45 J | 56 | 9 | 1.7 J | 25 | 6600 | 110 | 50 U | 0.562 | 129 | 425 | 39.1 | 6.65 | 1.1E+02 | 3.9E+03 | 5.7E+02 | 4.2E+02 | 2.6E+02 |
| 3/21/2012 | 200 J | 4000 | 7200 | 250 U | 400 | 64 J | 47 | 7.8 | 79 | 46000 | 680 | 250 U | 12.9 | 115 | 583 J | 11.7 | 5.45 | 2.8E+02 | 2.0E+03 | 1.5E+03 | 1.2E+02 | 1.1E+03 |
| 6/21/2012 | 330 | 3900 | 7800 | 23 J | 620 | 29 | 25 | 3.1 J | 21 | 72000 | 520 | 25 U | 3.46 | 26.8 | 752 | 12 | 6.31 | 8.6E+01 | 1.6E+03 | 7.1E+02 | 2.0E+01 | 2.2E+03 |
| 9/20/2012 | 440 | 2400 | 3600 | 15 | 310 | 11 | 7.4 | 5 U | 9.3 J | 43000 | 310 | 10 U | 0.692 | 8.6 | 542 | 5.2 | 6.72 | 5.3E+00 | 1.7E+02 | 3.1E+01 | 2.1E+00 | 3.0E+01 |
| 12/6/2012 | 81 J | 1300 | 7100 | 22 J | 960 | 64 J | 19 | 3.8 J | 35 | 29000 | 460 | 100 U | 0.26 | 268 | 309 | 73.9 | 6.3 | 4.8E+00 | 1.1E+01 | 1.1E+02 | 1.3E+02 | 1.5E+01 |
| 4/8/2013 | 120 | 670 | 5800 | 31 | 1900 | 240 | 4.1 J | 18 | 190 | 32000 | 470 | 25 U | 0.753 | 32.6 | 520 | 34.9 | 6.73 | 1.9E+03 | 1.6E+03 | 3.3E+02 | 1.9E+02 | 2.5E+01 |
| 7/10/2013 | 110 | 760 | 8200 | 31 J | 370 | 1000 | 15 | 48 | 470 | 30000 | 800 | 50 U | 0.215 | 21.6 | 409 | 63.6 | 7.12 | 7.1E+02 | 2.3E+02 | 1.3E+03 | 7.0E+02 | 7.7E+02 |
| 10/16/2013 | 83 J | 480 | 5600 | 20 J | 240 | 700 | 6.7 | 25 | 260 | 22000 | 480 | 100 U | 0.254 J | 9.9 | 492 | 33.2 | 6.65 | 4.3E+04 | 1.8E+03 | 9.9E+04 | 4.2E+04 | 5.5E+01 |
| 12/4/2013 | 130 J | 650 | 3300 | 250 U | 170 J | 370 | 5.5 | 16 | 190 | 15000 | 360 | 250 U | 0.163 J | 11.6 | 532 J | 22.1 | 7.2 | 1.1E+05 | 1.7E+03 | 2.8E+05 | 2.8E+05 | 2.0E+03 |
| 4/10/2014 | 79 | 330 | 2800 | 10 | 310 | 180 | 3.5 J | 11 | 120 | 14000 | 310 | 10 U | 0.194 J | 7.5 | 630 | 11.9 | 7.21 | 7.1E+04 | 7.5E+02 | 2.9E+05 | 2.0E+03 | 3.5E+04 |
| 8/13/2014 | 54 | 340 | 5100 | 22 | 340 | 570 | 5.7 | 39 | 410 | 17000 | 800 | 20 U | 0.0829 J | 11.3 | 472 | 70.4 | 7.02 | 2.1E+05 | 3.0E+03 | 7.6E+05 | 9.1E+03 | 4.7E+04 |
| 12/3/2014 | 40 | 180 | 3800 | 15 | 340 | 450 | 2.8 J | 27 | 230 | 13000 | 530 | 5 U | 0.144 J | 4.8 | 498 | 40.7 | 7.02 | 3.3E+04 | 1.4E+03 | 7.2E+04 | 1.6E+03 | 1.1E+03 |
| 3/25/2015 | 26 | 130 | 2600 | 14 | 180 | 300 | 17 | 13 | 480 | 6600 | 730 | 1.7 | 0.177 J | 60.6 | 245 | 27.3 | 6.83 | 2.3E+04 | 1.2E+03 | 6.2E+04 | 1.4E+03 | 1.9E+03 |
| 10/14/2015 | 46 | 300 | 3700 | 15 | 340 | 360 | 8.2 | 33 | 490 | 15000 | 680 | 2 U | 0.129 J | 9.8 | | | 7.43 | | | | | |
| 5/5/2016 | 36 D | 240 D | 3100 D | 15 D | 250 D | 540 D | 4.9 J | 42 | 1100 D | 10000 | 730 D | 10 U | 0.037 J | 5.4 | 440 | 73.1 | 7.6 | 5.6E+04 | 9.3E+03 | 3.2E+05 | 4.3E+03 | 5.9E+03 |
| 9/28/2016 | 830 U | 250 J | 3300 | 830 U | 690 J | 440 J | 2.2 | 18 | 390 | 17000 | 790 J | 830 UJ | 0.066 J | 4.1 | | | 7.16 | | | | | |
| 4/19/2017 | 400 U | 400 U | 4900 | 400 U | 320 J | 1000 | 2.3 | 34 | 300 | 16000 | 520 | 400 U | 0.096 J | 4.4 | 450 | 17 | 7.37 | 1.6E+04 | 2.2E+03 | 9.6E+04 | 1.0E+04 | 1.2E+03 |
| 10/11/2017 | 30 J | 490 | 4500 | 100 U | 270 | 430 | 2.6 | 21 | 230 | 13000 D | 310 | 100 U | 0.13 | 2.8 | | | 7.06 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-11S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27/2011 | 5 U | 320 | 11000 | 210 | 31 | 2300 J | 19 | 110 | 150 | 1.7 J | 42 | 5 U | 0.0568 J | 5.2 | 2230 | 0.16 U | 6.94 | | | | | |
| 8/26/2011 | 50 U | 270 | 17000 | 210 | 38 J | 3600 | 29 | 140 | 280 | 50 U | 38 J | 50 U | 0.356 | 4.9 | 2110 | 0.16 U | 6.66 | | | | | |
| 11/9/2011 | 50 U | 170 | 8600 | 140 | 18 J | 760 | 21 | 59 | 160 | 50 U | 32 J | 50 U | 0.0367 J | 2.3 | 2330 | 0.16 U | 6.77 | | | | | |
| 3/20/2012 | 100 U | 170 | 9100 | 170 | 27 J | 2000 | 25 | 100 | 1900 | 100 U | 41 J | 100 U | 0.11 J | 2.2 | 1800 J | 0.16 U | 6.32 | | | | | |
| 6/20/2012 | 25 U | 320 | 13000 | 230 | 32 | 2600 | 32 | 170 | 1800 | 25 UJ | 47 | 25 U | 0.27 | 2.1 | 1880 | 0.16 U | 6.95 | | | | | |
| 9/25/2012 | 100 U | 390 | 17000 | 270 | 42 J | 3600 | 40 | 300 | 1100 | 100 U | 46 J | 100 U | 0.814 | 1.9 | 1960 J | 0.16 U | 6.84 | | | | | |
| 12/6/2012 | 50 U | 340 | 16000 | 220 | 31 J | 2400 | 27 | 180 | 1200 | 50 U | 43 J | 50 U | 0.552 | 2 | 1960 | 0.16 U | 6.67 | | | | | |
| 4/4/2013 | 25 U | 310 | 15000 | 220 | 33 | 3100 | 40 | 390 | 5000 | 25 U | 42 | 25 U | 0.714 | 2.5 | 1650 | 0.16 U | 7.01 | | | | | |
| 7/18/2013 | 50 U | 230 | 12000 | 200 | 25 J | 2200 | 26 | 220 | 5700 | 50 U | 36 J | 50 U | 0.593 | 2.7 | 1470 | 0.16 U | 6.63 | | | | | |
| 10/9/2013 | 130 U | 250 | 16000 | 210 | 33 J | 3000 | 43 | 400 | 2500 | 130 U | 42 J | 130 U | 1.08 | 2.7 | 1690 | 0.16 U | 6.51 | | | | | |
| 12/9/2013 | 50 U | 170 | 12000 | 180 | 27 J | 2100 | 30 | 210 | 3500 | 50 U | 38 J | 50 U | 0.768 | 4.3 | 1850 | 0.16 U | 6.48 | | | | | |
| 4/8/2014 | 5 U | 220 | 10000 | 170 | 28 | 2200 | 32 | 280 | 4300 | 5 U | 30 | 5 U | 0.926 | 8.2 | 1450 | 0.16 U | 6.45 | | | | | |
| 8/19/2014 | 10 U | 230 | 15000 | 220 | 31 | 2900 | 35 | 270 | 5000 | 10 U | 41 | 10 U | 1.36 | 3.3 | 1610 | 0.16 U | 6.82 | | | | | |
| 12/2/2014 | 1 U | 290 | 13000 | 260 | 37 | 2300 | 35 | 270 | 4100 | 1.1 | 48 | 1 U | 1.19 | 4.8 | 1830 | 0.16 U | 6.59 | | | | | |
| 3/26/2015 | 5 U | 130 | 9700 | 150 | 18 | 1800 | 24 | 110 | 4200 J | 5 U | 29 | 5 U | 0.355 J | 2.6 | 1720 | 0.16 U | 7.42 | | | | | |
| 10/22/2015 | 20 U | 75 | 7700 | 130 | 16 J | 2700 | 26 | 420 | 4400 | 20 U | 35 | 20 U | 3.1 | 3.8 | | | 6.35 | | | | | |
| 5/13/2016 | 20 U | 150 | 11000 D | 190 | 22 | 1800 | 24 | 150 | 6500 D | 20 U | 33 | 20 U | 0.736 | 2.6 | 2120 | 0.10 U | 6.5 | | | | | |
| 4/18/2017 | 400 U | 400 U | 8000 | 140 J | 400 U | 1600 | 7 | 30 | 4900 | 400 U | 400 U | 400 U | 2.4 | 3.6 | 2200 | 1.0 U | 6.9 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-12D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27/2011 | 2900 | 29000 | 19000 | 1000 U | 460 J | 740 J | 9.7 | 41 | 85 | 660 J | 1000 U | 1000 U | 2.25 | 47.7 | 792 | 16.2 | 7.6 | | | | | |
| 8/24/2011 | 6000 | 270000 | 95000 | 120 J | 260 J | 950 | 140 J | 1900 J | 180 J | 140 J | 500 U | 500 U | 22.7 | 818 | 645 | 1.8 | 6.6 | | | | | |
| 11/7/2011 | 1800 J | 140000 | 250000 | 2500 U | 570 J | 910 J | 100 | 1100 | 180 | 2500 U | 2500 U | 2500 U | 26.1 | 242 | 780 | 3.6 | 6.88 | | | | | |
| 3/29/2012 | 2500 U | 2500 U | 370000 | 2500 U | 1100 J | 2500 U | 49 | 210 | 86 | 2500 U | 2500 U | 2500 U | 85.1 | 221 | 459 J | 0.079 J | 7.04 | | | | | |
| 6/26/2012 | 1000 U | 850 J | 350000 | 1000 U | 910 J | 210 J | 38 | 140 | 110 | 1000 U | 1000 U | 1000 U | 59.8 | 169 | 291 | 0.16 U | 7.17 | | | | | |
| 9/25/2012 | 190 J | 5600 | 250000 | 1000 U | 600 J | 280 J | 36 | 120 | 120 | 200 J | 1000 U | 1000 U | 1.65 | 87.8 | 6.5 J | 16.2 | 7.67 | | | | | |
| 12/10/2012 | 380 | 1100 | 98000 | 140 J | 92 J | 460 | 28 | 77 | 210 | 76 J | 90 J | 250 UJ | 120 | 3900 | 3.9 J | 6.3 | 5.18 | | | | | |
| 4/10/2013 | 35 | 1300 | 19000 | 53 J | 14 | 120 | 7.7 | 8.9 | 19 | 8.6 J | 16 | 2.7 J | 17.6 | 92.3 | 6.8 | 0.16 U | 5.91 | | | | | |
| 7/18/2013 | 1000 U | 1600 | 230000 | 1000 U | 340 J | 4800 | 46 | 440 | 2100 | 1000 U | 1000 U | 1000 U | 166 | 1150 | 9.4 | 3 | 6.31 | | | | | |
| 10/16/2013 | 1000 U | 6600 | 160000 | 1000 U | 300 J | 33000 | 33 | 1200 | 1900 | 1000 U | 200 J | 1000 U | 278 | 1200 | 16.1 | 0.53 | 5.79 | | | | | |
| 12/12/2013 | 500 U | 5100 | 200000 | 160 J | 470 J | 40000 | 35 | 2200 | 2700 | 500 U | 160 J | 500 U | 158 | 799 | 14.1 | 2.3 | 6.6 | | | | | |
| 4/9/2014 | 52 J | 3800 | 82000 | 130 | 180 | 70000 | 28 | 5100 | 2400 | 100 U | 99 J | 100 U | 184 | 526 | 5.2 | 0.65 | 7.06 | | | | | |
| 8/18/2014 | 150 J | 19000 | 120000 | 230 | 260 | 40000 | 41 | 12000 | 7200 | 200 U | 100 J | 200 U | 25.9 | 395 | 10.2 | 14.6 | 6.35 | | | | | |
| 12/10/2014 | 500 U | 36000 | 150000 | 500 U | 260 J | 16000 | 28 | 8000 | 7200 | 500 U | 500 U | 500 U | 2.23 | 270 | 69.1 | 38.4 | 6.35 | | | | | |
| 4/1/2015 | 350 | 61000 | 140000 | 220 | 330 | 17000 | 19 | 6800 | 5900 | 100 U | 72 J | 100 U | 16.7 | 207 | 11.8 | 12.8 | 6.26 | | | | | |
| 10/13/2015 | 240 | 43000 | 120000 | 220 | 190 | 18000 | 5 U | 12000 | 8700 | 17 | 75 | 2 U | 6.83 | 480 | | | 6.64 | | | | | |
| 5/17/2016 | 340 | 52000 D | 220000 D | 560 D | 390 | 38000 D | 24 | 12000 D | 5900 D | 12 | 140 | 2.0 U | 0.435 | 365 | 23.8 | 118 | 6.83 | | | | | |
| 4/21/2017 | 5000 U | 19000 | 190000 | 5000 U | 5000 U | 36000 | 87 | 4300 | 4600 | 5000 U | 5000 U | 5000 U | 1.6 | 350 | 67 J | 60 | 6.68 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-13D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27/2011 | 950 J | 100000 | 18000 | 1000 U | 1000 U | 500 J | 1.5 J | 17 | 66 | 1100 | 1000 U | 1000 U | 1.11 | 8.9 | 959 | 5.7 | 7.08 | | | | | |
| 8/24/2011 | 85 J | 5700 | 45000 | 81 J | 98 J | 110 J | 4.8 J | 7.9 | 40 | 1300 | 81 J | 250 U | 2.45 | 953 | 143 | 127 | 6.02 | | | | | |
| 11/7/2011 | 2100 | 170000 | 73000 | 110 J | 250 J | 240 J | 24 | 19 | 29 | 750 | 120 J | 500 U | 157 | 4320 | 139 | 20.8 | 5.56 | | | | | |
| 3/29/2012 | 1100 | 190000 | 99000 | 140 J | 270 J | 180 J | 15 | 43 | 46 | 470 J | 140 J | 500 U | 8.13 | 360 | 179 J | 115 | 5.48 | | | | | |
| 6/26/2012 | 370 | 38000 | 30000 | 60 J | 150 J | 100 J | 37 | 230 | 37 | 350 | 99 J | 250 U | 69.5 | 618 | 104 | 10.6 | 6.12 | | | | | |
| 9/25/2012 | 570 | 66000 | 110000 | 500 U | 480 J | 350 J | 49 | 380 | 80 | 500 U | 120 J | 500 U | 20.1 | 367 | 87.3 J | 35.1 | 6.13 | | | | | |
| 12/12/2012 | 3200 | 280000 | 120000 | 500 U | 240 J | 340 J | 14 | 33 | 120 | 280 J | 160 J | 500 UJ | 7.17 | 25 U | 93 | 69.3 | 5.78 | | | | | |
| 4/9/2013 | 590 J | 85000 | 120000 | 2500 U | 2500 U | 520 J | 40 | 200 | 160 | 2500 U | 2500 U | 2500 U | 266 | 1500 | 46.4 J | 2.7 | 6.21 | | | | | |
| 7/18/2013 | 720 J | 90000 | 210000 | 1000 U | 440 J | 2800 | 55 | 330 | 950 | 1000 U | 290 J | 1000 U | 238 | 1020 | 45.3 | 1.6 | 6.31 | | | | | |
| 10/16/2013 | 780 J | 98000 | 250000 | 2500 U | 760 J | 6400 | 69 | 560 | 1000 | 2500 U | 2500 U | 2500 U | 134 | 715 | 59.1 | 6.4 | 5.87 | | | | | |
| 12/12/2013 | 850 | 130000 | 230000 | 100 J | 700 | 25000 | 57 | 640 | 1600 | 210 J | 400 J | 500 U | 49.5 | 578 | 73.9 | 23.5 | 6.17 | | | | | |
| 4/10/2014 | 150 J | 11000 | 68000 | 200 U | 310 | 8600 | 7.9 | 280 | 720 | 200 U | 200 U | 200 U | 11.3 | 179 | 33.1 | 18.3 | 6.55 | | | | | |
| 8/22/2014 | 55 J | 8900 | 82000 | 83 J | 280 | 15000 | 24 | 3900 | 7000 | 82 J | 130 | 100 U | 14.7 | 304 | 13.7 | 15.5 | 6.38 | | | | | |
| 12/10/2014 | 200 U | 16000 | 120000 | 110 J | 220 | 14000 | 18 | 4600 | 11000 | 200 U | 130 J | 200 U | 22.8 | 314 | 20.3 | 11.9 | 6.13 | | | | | |
| 3/25/2015 | 76 J | 16000 | 84000 | 85 J | 220 | 16000 | 14 | 5700 | 9000 | 100 | 120 | 100 U | 8.38 | 252 | 22.1 | 11 | 5.97 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-14D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27/2011 | 190 | 7900 | 12000 | 16 J | 120 | 240 J | 4.2 J | 14 | 57 | 3300 | 150 | 25 U | 2.93 | 4.7 | 885 | 0.43 | 8.02 | | | | | |
| 8/24/2011 | 72 | 1800 | 13000 | 36 J | 22 J | 64 | 6.7 | 5 U | 23 | 2000 | 80 | 50 U | 1.37 | 826 | 227 | 124 | 6.15 | | | | | |
| 11/8/2011 | 670 | 5400 | 29000 | 99 J | 170 | 540 | 76 | 12 | 30 | 3500 | 340 | 100 U | 1.85 | 2950 | 40.7 J | 134 | 5.35 | | | | | |
| 3/29/2012 | 40 J | 4700 J | 25000 J | 39 J | 62 J | 530 J | 38 J | 170 J | 91 J | 560 J | 310 J | 25 UJ | 77.5 | 1740 | 26.6 J | 50.1 | 5.54 | | | | | |
| 6/27/2012 | 500 U | 19000 | 57000 | 500 U | 110 J | 580 | 29 | 140 | 94 | 270 J | 440 J | 500 U | 55.6 | 987 | 55.3 J | 30.3 | 5.63 | | | | | |
| 9/27/2012 | 85 J | 23000 | 65000 | 82 J | 180 J | 800 | 34 | 310 | 160 | 240 J | 480 | 250 U | 6.84 | 826 | 21.8 | 65.4 | 5.57 | | | | | |
| 11/1/2012 | | | | | | | | | | | | | | 556 | | | | | | | | |
| 11/19/2012 | | | | | | | | | | | | | | 970 | | | | | | | | |
| 12/11/2012 | 130 J | 16000 | 77000 | 72 J | 89 J | 570 | 9.1 | 92 | 230 J | 500 | 420 | 250 U | 7.37 | 1450 | 76.6 | 79.9 | 5.9 | | | | | |
| 4/9/2013 | 99 J | 2100 | 95000 | 500 U | 130 J | 1100 | 14 | 460 | 1700 | 740 | 770 | 500 U | 16.6 | 765 | 11.7 J | 72.7 | 5.95 | | | | | |
| 7/17/2013 | 500 U | 1000 | 74000 | 500 U | 500 U | 1100 | 12 | 300 | 4400 | 300 J | 730 | 500 U | 43 | 838 | 2.7 J | 88.6 | 5.88 | | | | | |
| 10/18/2013 | 500 U | 670 | 75000 | 500 U | 120 J | 1500 | 22 | 830 | 7700 | 1300 | 1100 | 500 U | 73.1 | 719 | 1.7 J | 23.7 | 5.93 | | | | | |
| 12/13/2013 | 500 U | 2500 | 57000 | 87 J | 140 J | 9100 | 37 | 4100 | 22000 | 2100 | 1300 | 500 U | 38.3 | 600 | 8.7 | 24.5 | 6.08 | | | | | |
| 4/8/2014 | 86 J | 9800 | 120000 | 120 | 210 | 5600 | 21 | 2000 | 3300 | 1600 | 1100 | 100 U | 6.2 | 595 | 15 | 80.4 | 5.97 | | | | | |
| 8/18/2014 | 10 U | 76 J | 6200 J | 56 | 8.9 J | 2600 | 64 | 15000 | 19000 | 44 | 790 | 13 J | 90.5 | 682 | 1.6 J | 3.9 | 7.37 | | | | | |
| 12/11/2014 | 150 | 41000 | 99000 | 110 | 140 | 5800 | 29 | 5500 | 7500 | 460 | 740 | 50 U | 4.18 | 493 | 28.8 | 45.6 | 6.98 | | | | | |
| 4/1/2015 | 74 | 3400 | 38000 | 81 | 62 | 6500 | 37 | 5400 | 9300 | 540 | 570 | 50 U | 22.6 | 426 | 5.8 | 40.7 | 6.01 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-15D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/30/2011 | 69 | 2200 | 7900 | 17 J | 69 | 210 | 3.1 J | 9.8 | 59 | 2400 | 100 | 50 U | 1.32 J | 3.3 J | 823 J | 0.25 J | | 2.3E+03 | 4.1E+01 | 1.1E+03 | 6.6E+00 | 4.0E+01 |
| 8/29/2011 | 48 J | 780 | 17000 | 43 J | 90 J | 370 | 6.4 | 6.6 | 32 | 4600 | 530 | 100 U | 1.08 | 563 | 281 | 84.5 | 5.93 | 9.5E+02 | 3.1E+03 | 3.5E+02 | 1.3E+02 | 4.5E+01 |
| 11/1/2011 | 44 J | 1900 | 15000 | 47 J | 140 | 510 | 24 | 9 | 44 | 11000 | 990 | 100 U | 21 | 303 | 56 | 103 | 6.27 | 1.6E+03 | 1.2E+04 | 1.3E+03 | 8.0E+01 | 5.1E+02 |
| 3/22/2012 | 12 J | 760 | 5100 | 30 | 79 | 5100 | 54 | 45 | 1300 | 5000 | 1100 | 25 U | 11.4 | 307 | 26.4 | 15.8 | 6.23 | | | | | |
| 6/21/2012 | 48 | 2900 | 10000 | 44 | 320 | 1500 | 19 | 66 | 900 | 49000 J | 3000 | 25 U | 0.0574 J | 134 | 133 J | 127 | 6.94 | 3.6E+05 | 3.3E+04 | 1.5E+06 | 8.1E+03 | 4.4E+04 |
| 9/20/2012 | 67 | 2900 | 14000 | 50 | 530 | 970 | 12 | 22 | 260 | 58000 | 3800 | 10 U | 0.137 J | 108 | 106 | 153 | 6.94 | 5.3E+04 | 7.4E+03 | 3.7E+05 | 2.9E+04 | 1.5E+05 |
| 11/1/2012 | | | | | | | | | | | | | | 94.8 | | | | | | | | |
| 11/19/2012 | | | | | | | | | | | | | | 2090 | | | | | | | | |
| 12/4/2012 | 18 J | 540 | 19000 | 33 J | 210 | 550 | 3.8 J | 10 | 76 | 7700 | 1600 | 100 U | 0.15 J | 739 | 44.3 | 238 | 6.24 | 1.7E+01 | 2.5E+02 | 1.1E+02 | 7.9E+01 | 1.1E+01 |
| 4/10/2013 | 60 J | 3200 | 14000 | 27 J | 620 | 370 | 17 | 19 | 270 | 48000 | 3100 | 100 U | 0.85 | 421 | 139 | 125 | 6.34 | 3.1E+04 | 3.8E+04 | 1.6E+04 | 4.6E+04 | 7.8E+02 |
| 7/10/2013 | 22 J | 1100 | 10000 | 33 | 480 | 4100 | 280 | 140 | 1600 | 16000 | 7400 | 17 J | 40.8 | 480 | 3.2 J | 84.6 | 7.29 | 1.2E+05 | 1.6E+05 | 7.5E+04 | 3.6E+05 | 1.0E+02 |
| 10/16/2013 | 71 | 1400 | 2200 | 59 | 200 | 11000 | 380 | 210 | 1100 | 10000 | 9200 | 29 J | 33.3 | 319 | 3.1 J | 0.58 | 6.22 | 3.2E+05 | 1.7E+04 | 1.1E+06 | 9.2E+05 | 2.4E+01 |
| 12/4/2013 | 140 | 840 | 1800 | 73 J | 150 | 9700 | 980 | 260 | 820 | 3400 | 13000 | 100 | 1.27 | 223 | 3.7 J | 124 | 6.88 | 6.8E+04 | 8.7E+04 | 2.3E+05 | 2.1E+05 | 4.4E+02 |
| 4/10/2014 | 600 | 5400 | 7700 | 50 U | 690 | 720 | 32 | 100 | 1000 | 42000 | 3000 | 50 U | 0.114 J | 194 | 46.5 | 139 | | 4.4E+04 | 1.5E+04 | 1.0E+05 | 1.5E+03 | 1.8E+03 |
| 8/12/2014 | 620 | 5200 | 9400 | 100 U | 970 | 2200 | 76 | 210 | 1900 | 51000 | 4000 | 100 U | 0.234 J | 158 | 32.9 | 139 | 7.13 | 4.2E+05 | 1.5E+04 | 2.1E+06 | 3.5E+04 | 4.7E+03 |
| 12/4/2014 | 3.3 | 2.5 | 5.6 | 9.7 | 0.65 J | 340 | 250 | 850 | 3700 | 28 | 2300 | 64 | 4.87 | 36.4 | 5 U | 0.16 U | 7.43 | 5.2E+05 | 1.7E+04 | 2.3E+06 | 4.7E+04 | 1.9E+04 |
| 3/24/2015 | 110 | 470 | 4500 | 15 | 230 | 2000 | 230 | 130 | 1500 J | 4000 | 5300 | 32 | 14.3 | 127 | 5 U | 0.075 J | 7.11 | 9.1E+04 | 9.2E+03 | 1.4E+05 | 6.7E+03 | 8.5E+02 |
| 10/15/2015 | 67 | 550 | 3100 | 18 J | 230 | 1100 | 15 | 220 | 6400 | 10000 | 1600 | 20 U | 0.464 | 101 | | | 6.55 | | | | | |
| 5/9/2016 | 40 | 50 | 1400 D | 11 | 140 | 830 D | 160 | 110 | 1300 D | 1700 D | 3100 D | 35 | 0.206 J | 115 | 16.5 | 57.2 | 7.78 | 1.4E+05 | 1.6E+05 | 3.3E+05 | 1.0E+04 | 8.4E+03 |
| 4/19/2017 | 500 U | 320 J | 1100 | 500 U | 240 J | 1500 | 9.4 | 170 | 2500 | 13000 | 1700 | 500 U | 0.10 U | 65 | 210 | 73 | 8.29 | 9.8E+04 | 2.5E+04 | 4.5E+05 | 6.0E+04 | 1.6E+03 |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-15S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/22/2012 | | | | | | | | | | | | | | | | | | 8.7E+05 | 7.8E+03 | 3.3E+06 | 7.2E+02 | 1.4E+04 |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-16D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/24/2011 | 610 | 41000 | 24000 | 250 U | 140 J | 390 | 1.4 J | 13 | 53 | 1800 | 120 J | 250 U | 0.661 | 7.1 | 801 | 3.4 | 7.36 | | | | | |
| 8/24/2011 | 70 | 5200 | 2100 | 7.5 J | 4.4 J | 13 J | 2.8 J | 5 U | 13 J | 15 J | 25 U | 25 U | 0.054 J | 33.8 | 39.4 | 1.1 | 12.19 | | | | | |
| 11/8/2011 | 110 | 9900 | 5700 | 14 J | 13 J | 43 J | 7.5 | 1.2 J | 27 | 59 | 18 J | 50 U | 0.0976 J | 80.5 | 91.5 J | 7.2 | 12.65 | | | | | |
| 3/28/2012 | 13 | 110 | 110 | 5 U | 5 U | 3.3 J | 5 U | 5 U | 15 | 5 U | 5 U | 5 U | 0.2 U | 2.5 | 30.3 | 0.16 U | 10.48 | | | | | |
| 6/27/2012 | 30 | 1200 | 3000 | 9.8 J | 7.1 J | 530 | 3 J | 7.1 | 57 | 39 | 17 J | 25 U | 0.244 | 20.9 | 44.4 J | 2.6 | 11.59 | | | | | |
| 9/25/2012 | 16 | 240 | 220 | 0.81 J | 5 U | 56 | 5 U | 5 U | 10 J | 4.8 J | 1.2 J | 5 U | 0.2 U | 7.3 | 27.4 J | 0.28 | 11.14 | | | | | |
| 12/11/2012 | 130 J | 5500 | 67000 | 47 J | 56 J | 470 | 5.6 | 45 | 330 J | 770 | 430 | 250 U | 0.107 J | 728 | 219 | 182 | 6.14 | | | | | |
| 4/10/2013 | 160 J | 5300 | 47000 | 41 J | 92 J | 1500 | 11 | 730 | 1500 | 1500 | 950 | 250 U | 0.988 | 370 | 28.7 | 103 | 6.29 | | | | | |
| 7/18/2013 | 330 J | 12000 | 64000 | 500 U | 220 J | 1000 | 6.8 | 170 | 940 | 8900 | 2000 | 500 U | 0.111 J | 294 | 16.5 | 172 | 6.34 | | | | | |
| 10/18/2013 | 380 | 12000 | 40000 | 42 J | 300 | 640 | 5.7 | 59 | 290 | 18000 | 2000 | 250 U | 0.4 U | 183 | 91.1 | 191 | 6.16 | | | | | |
| 12/12/2013 | 430 | 15000 | 52000 | 60 J | 320 | 810 | 9.9 | 140 | 700 | 15000 | 1900 | 100 U | 0.4 U | 214 | 32.7 | 182 | 6.27 | | | | | |
| 4/10/2014 | 290 | 23000 | 87000 | 88 J | 260 | 2700 | 15 | 490 | 1800 | 4300 | 830 | 100 U | 0.822 | 262 | 17.4 | 104 | 6.48 | | | | | |
| 8/18/2014 | 520 | 35000 | 170000 | 170 J | 400 | 6100 | 22 | 810 | 3200 | 6300 | 1200 | 200 U | 0.216 J | 347 | 19.7 | 132 | 6.55 | | | | | |
| 12/9/2014 | 350 | 19000 | 160000 | 200 J | 350 | 7200 | 18 | 1600 | 6500 | 2000 | 550 | 200 U | 0.373 J | 335 | 7.6 | 99.3 | 6.27 | | | | | |
| 3/31/2015 | 510 | 26000 | 110000 | 130 | 200 | 4900 | 32 | 1600 | 5900 | 820 J | 460 | 100 U | 0.593 | 214 | 11 | 102 | 6.03 | | | | | |
| 10/14/2015 | 84 | 1400 | 52000 | 100 | 160 | 2800 | 13 | 790 | 4500 | 1800 | 660 | 5 U | 0.116 J | 105 | | | 9.04 | | | | | |
| 5/18/2016 | 21 | 83 | 26000 D | 82 | 150 | 2200 | 4.2 J | 350 | 1100 D | 3500 | 360 | 20 U | 0.400 U | 42.8 | 165 | 98.5 | 7.24 | | | | | |
| 9/30/2016 | 1700 U | 700 J | 36000 | 1700 U | 1700 U | 4000 | 5.5 J | 290 J | 600 J | 7900 | 800 J | 1700 U | 0.078 J | 51 | | | 7.11 | | | | | |
| 4/21/2017 | 630 U | 630 U | 28000 | 630 U | 630 U | 4600 | 3 | 130 | 930 | 5000 | 680 | 630 U | 0.10 U | 28 | 140 | 74 | 7.56 | | | | | |
| 10/13/2017 | 1000 U | 950 J | 37000 | 1000 U | 1000 U | 7600 | 34 | 840 | 2800 | 5300 | 610 J | 1000 U | 0.100 U | 41 | | | 7.04 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: PMW-17D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/30/2011 | 330 | 18000 | 15000 | 100 U | 80 J | 210 | 1.6 J | 11 | 50 | 1600 | 100 | 100 U | 0.445 | 3.7 J | 775 J | 1.3 | 6.25 | 1.6E+03 | 5.7E+01 | 4.9E+02 | 3.9E+00 | 1.5E+01 |
| 8/25/2011 | 40 J | 780 | 18000 | 34 J | 110 | 100 | 3.4 J | 2.2 J | 27 | 7300 | 130 | 50 U | 0.657 | 193 | 551 J | 96.9 | 5.24 | 1.7E+02 | 6.9E+03 | 3.4E+02 | 1.0E+02 | 2.3E+02 |
| 11/1/2011 | 42 J | 890 | 16000 | 39 J | 66 J | 130 | 19 | 6 | 53 | 6900 | 240 | 100 U | 9.03 | 501 | 193 | 96.9 | 6.21 | 2.7E+02 | 1.9E+03 | 6.4E+02 | 3.4E+02 | 1.8E+02 |
| 3/27/2012 | 11 J | 720 | 13000 | 37 J | 26 J | 120 | 28 | 7.5 | 75 | 450 | 330 | 50 U | 22.9 | 335 | 62.7 | 35.4 |  | 7.6E+00 | 2.5E+02 | 2.8E+01 | 7.4E+01 | 2.9E+00 |
| 6/20/2012 | 190 | 11000 | 13000 | 26 | 63 | 140 | 11 | 4.7 J | 79 | 3900 J | 610 | 25 U | 0.216 | 94.5 | 201 | 157 | 6.55 | 7.8E+02 | 1.6E+03 | 2.6E+03 | 2.6E+02 | 1.6E+03 |
| 9/20/2012 | 200 | 6400 | 6700 | 17 | 65 | 190 | 9.8 | 7.6 | 380 | 3000 | 420 | 5 U | 0.0686 J | 43.8 | 210 | 137 | 6.89 | 6.5E+02 | 2.8E+02 | 5.3E+03 | 2.5E+02 | 2.8E+03 |
| 12/4/2012 | 97 J | 5100 | 23000 | 23 J | 54 J | 280 | 5.6 | 6 | 120 | 1300 | 520 | 100 U | 0.178 J | 547 | 21.2 | 235 | 6.22 | 1.5E+01 | 3.8E+01 | 4.4E+02 | 2.7E+02 | 8.0E+00 |
| 4/9/2013 | 22 J | 370 | 10000 | 16 J | 93 | 360 | 9.1 | 10 | 6400 | 5600 | 860 | 50 U | 2.43 | 230 | 21 J | 47.3 | 6.35 | 3.4E+04 | 2.4E+03 | 1.3E+04 | 6.8E+04 | 2.8E+01 |
| 7/10/2013 | 65 | 1500 | 15000 | 30 J | 380 | 790 | 12 | 140 | 1300 | 29000 | 2300 | 50 U | 0.2 U | 181 | 40.4 | 71 | 7.86 | 4.9E+04 | 4.9E+02 | 9.3E+04 | 1.8E+05 | 2.3E+03 |
| 10/15/2013 | 5.1 | 30 | 100 | 5.6 | 6 | 510 | 23 | 40 | 3900 | 470 | 160 | 5 U | 0.0954 J | 57.5 | 3.5 J | 212 | 7.46 | 2.5E+04 | 1.7E+03 | 5.3E+04 | 8.8E+04 | 7.7E+02 |
| 12/5/2013 | 78 | 1100 | 10000 | 26 J | 180 | 370 | 12 | 35 | 600 | 15000 | 1500 | 50 U | 0.4 U | 103 | 49.1 | 200 | 6.86 | 4.5E+04 | 7.4E+02 | 8.1E+04 | 4.4E+04 | 1.4E+03 |
| 4/8/2014 | 35 | 890 | 9200 | 15 J | 150 | 700 | 28 | 38 | 840 | 5700 | 1200 | 20 U | 0.21 J | 124 | 4.9 J | 66.3 | 6.99 | 2.4E+04 | 1.9E+03 | 3.0E+04 | 2.0E+03 | 4.5E+03 |
| 8/12/2014 | 2.5 | 92 | 310 | 0.64 J | 3.3 | 75 | 17 | 15 | 740 | 29 | 72 | 1 | 0.0558 J | 67.5 | 8.8 | 105 | 8.05 | 4.6E+05 | 5.5E+03 | 3.0E+06 | 2.8E+04 | 3.2E+04 |
| 12/4/2014 | 35 J | 4700 | 12000 J | 17 J | 41 J | 530 J | 9.3 J | 51 J | 2900 | 380 J | 370 J | 10 U | 0.0489 J | 108 | 5.8 | 76.3 | 9.86 | 1.1E+05 | 4.3E+03 | 5.2E+05 | 6.6E+03 | 2.0E+03 |
| 3/24/2015 | 26 | 400 | 6200 | 13 | 70 | 860 | 27 | 92 | 2200 J | 2700 | 700 | 2 U | 0.233 J | 97.9 | 56.2 | 50 | 6.7 | 5.5E+04 | 2.4E+03 | 8.7E+04 | 3.3E+03 | 1.9E+03 |
| 10/14/2015 | 1 U | 5 | 30 | 1 U | 1 U | 9.5 | 2.8 J | 3.9 J | 890 | 6.8 | 3.9 | 1 U | 0.509 | 13 |  |  | 8.68 |  |  |  |  |  |
| 5/9/2016 | 19 | 1700 | 8500 | 25 | 68 | 1200 | 7.6 | 97 | 930 D | 1400 | 350 | 2.0 U | 0.0478 J | 56.6 | 16.3 | 52.4 | 9.16 | 1.4E+05 | 1.1E+05 | 4.5E+05 | 1.3E+04 | 3.7E+04 |
| 9/28/2016 | 1000 U | 590 J | 9300 | 1000 U | 1000 U | 2100 | 7.1 | 75 | 1200 | 13000 | 1700 | 1000 U | 0.100 U | 66 |  |  | 6.96 |  |  |  |  |  |
| 4/19/2017 | 83 U | 83 U | 1300 | 83 U | 83 U | 1100 | 1.5 | 78 | 1400 | 1500 | 250 | 83 U | 0.32 | 33 | 91 | 20 | 7.65 | 2.5E+04 | 4.4E+03 | 1.6E+05 | 1.8E+04 | 1.3E+03 |
| 10/11/2017 | 1.0 U | 0.81 J | 7.4 | 1.0 U | 1.0 U | 15 | 0.62 J | 7 | 360 | 14 | 3 | 1.0 U | 1.1 | 9.7 |  |  | 7.84 |  |  |  |  |  |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: RMW- 1D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/29/2003 | | 3.8 J | | | | 5.0 U | | | | 2.6 J | 5.0 U | | | | | | | | | | | |
| 5/17/2004 | | 5 U | | | | 5 U | | | | 5 U | 5 U | | | | | | | | | | | |
| 6/21/2004 | | 5.0 U | | | | 5.0 U | | | | 5.0 U | 5.0 U | | | | | | | | | | | |
| 8/29/2005 | | 1.3 | 234 | 1.4 | 1.1 | 5 | 11.2 | 0.10 U | 52.2 | 0.38 J | 1.0 U | 1.0 U | | 2 | 1030 | | | | | | | |
| 9/18/2006 | 1 U | 1 U | 6 | 1 U | 1 U | 1 U | 69.9 | 17 U | 204 | 1 U | 1 U | 2 U | | 1.3 | 1570 | | | | | | | |
| 5/27/2008 | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 28 | 5 U | 110 | 5 U | 5 U | | | 2.3 | 768 J | | | | | | | |
| 6/2/2009 | 5.0 U | 3.2 J | 7.4 | 5.0 U | 5.0 U | 0.86 J | 8.1 | 0.014 | 40 | 5.0 U | 5.0 U | 5.0 U | 0.66 | 3.3 | 758 | 1.69 | | | | | | |
| 7/16/2010 | 5 U | 5 U | 0.96 J | 5 U | 5 U | 5 U | 49 | 5 U | 160 | 5 U | 5 U | 5 U | 0.332 | 2.6 | 1070 | 13.3 | | | | | | |
| 9/1/2011 | 3.8 J | 100 | 290 | 1.3 J | 5.2 | 8.8 | 15 | 5 U | 65 | 270 | 6.4 | 5 U | 0.316 | 3.2 | 1070 J | 8.2 | | | | | | |
| 3/27/2012 | 3.2 J | 66 | 380 | 1.3 J | 7.1 | 2.8 J | 12 | 5 U | 53 | 390 | 7.5 | 5 U | 0.227 | 2 | 904 | 4.5 | | | | | | |
| 6/19/2012 | 2.2 J | 24 | 380 | 1.4 J | 6.1 | 5.8 | 12 | 5 U | 54 | 500 J | 9.4 | 5 U | 0.273 | 1.9 | 934 | 5.2 | | | | | | |
| 9/26/2012 | 5 U | 4.9 J | 300 | 1 J | 4.8 J | 2.9 J | 16 | 5 U | 61 | 290 | 6.2 | 5 U | 0.27 | 1.4 | 867 | 6.3 | | | | | | |
| 12/12/2012 | 5.6 | 61 | 370 | 1.3 J | 8.1 | 4 J | 3.2 J | 5 U | 26 | 850 | 11 | 5 UJ | 0.264 | 2.4 | 601 | 0.44 | | | | | | |
| 4/2/2013 | 1.3 J | 10 | 330 | 1 J | 6.5 | 5.5 | 14 | 5 U | 58 | 440 | 8.3 | 5 U | 0.21 | 1.7 | 759 | 4.4 | | | | | | |
| 7/16/2013 | 5 U | 6.5 | 290 | 0.95 J | 3.4 J | 7 | 14 | 5 U | 63 | 280 J | 7 | 5 U | 0.246 | 1.9 | 844 | 6.4 | | | | | | |
| 10/16/2013 | 5 U | 12 | 280 | 0.98 J | 4.3 J | 7.6 | 17 | 5 U | 76 | 270 | 6.4 | 5 U | 0.26 J | 1.6 | 780 | 7.6 | | | | | | |
| 12/3/2013 | 5 U | 11 | 270 | 1 J | 3.4 J | 5.7 | 12 | 5 U | 64 | 230 | 6.8 | 5 U | 0.299 J | 2.6 J | 716 | 4.7 | | | | | | |
| 4/15/2014 | 5.1 | 57 | 420 | 1.5 | 21 | 14 | 6.7 | 5 U | 39 | 460 | 13 | 1 U | 0.303 J | 3.1 | 720 | 1.7 | 7.17 | | | | | |
| 8/15/2014 | 2.2 | 15 | 450 | 1.6 | 6.9 | 14 | 15 | 5 U | 72 | 210 | 9.7 | 1 U | 0.403 | 4 | 819 | 5.2 | 7.63 | | | | | |
| 12/12/2014 | 1 U | 3.3 | 280 | 0.71 J | 2.9 | 6.5 | 36 | 5 U | 160 | 110 | 6.2 | 1 U | 0.23 J | 1 U | 864 | 11.8 | 6.87 | | | | | |
| 3/26/2015 | 1 U | 11 | 390 | 1.2 | 3.9 | 19 | 4.4 J | 1 J | 24 J | 60 | 7.2 | 1 U | 0.297 J | 2 | 679 | 0.94 | 7.22 | | | | | |
| 10/13/2015 | 1 U | 2.3 | 290 | 0.92 J | 2.4 | 8.6 | 27 | 5 U | 120 | 27 | 4.1 | 1 U | 0.265 J | 1.5 | | | | | | | | |
| 5/12/2016 | 1.0 U | 0.83 J | 160 | 1.0 U | 1.2 | 7.5 | 31 | 5.0 U | 130 | 11 | 2.6 | 1.0 U | 0.272 J | 1.7 | 934 | 7.8 | 7.4 | | | | | |
| 4/12/2017 | 8.3 U | 8.3 U | 230 | 8.3 U | 8.3 U | 9.2 | 2.2 | 0.27 J | 15 | 14 | 3.7 J | 8.3 U | 0.23 | 2.6 | 560 | 1.0 U | 7.58 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: RMW- 2D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/19/2004 | | 100000 | | | | 5000 U | | | | 5400 | 5000 U | | | | | | | | | | | |
| 9/1/2005 | | 23900 | 2890 | 50 U | 24.8 J | 51.3 | 0.46 | 0.87 | 8.85 | 1830 | 25.4 J | 50 U | | 2.4 | 854 | | | | | | | |
| 9/18/2006 | 159 | 10900 | 8660 | 50 U | 65 | 688 | 20.5 | 38.4 | 111 | 355 | 112 | 100 U | | 2.6 | 1500 | | | | | | | |
| 5/30/2008 | 1100 | 140000 | 21000 | 500 U | 110 J | 1500 | 22 | 86 | 160 | 300 J | 100 J | | | 6 | 1120 | | | | | | | |
| 6/1/2009 | 1600 J | 180000 | 49000 | 5000 U | 5000 U | 2000 U | 83 | 12 | 390 | 5000 U | 5000 U | 5000 U | 0.0416 J | 29.7 | 1190 | 53.8 | | | | | | |
| 7/13/2010 | 780 | 99000 | 52000 | 500 U | 110 J | 200 J | 89 | 5.1 | 340 | 500 U | 500 U | 500 U | 0.2 U | 15.1 | 1480 J | 51.7 | | | | | | |
| 6/29/2011 | 920 J | 210000 | 36000 | 1000 U | 160 J | 310 J | 11 | 8.2 | 63 | 1200 | 1000 U | 1000 U | 0.269 | 12.1 | 969 J | 4.8 | 6.26 | 4.4E+02 | 3.7E+01 | 1.8E+02 | 8.0E+01 | 9.5E+01 |
| 8/23/2011 | 680 J | 56000 | 110000 | 1000 U | 430 J | 1000 U | 28 | 5.3 | 89 | 1100 | 1000 U | 1000 U | 0.162 J | 377 | 759 J | 58.4 | | 6.6E+01 | 4.8E+02 | 5.3E+01 | 7.1E+01 | 2.5E+01 |
| 11/2/2011 | 1100 | 110000 | 110000 | 85 J | 390 J | 110 J | 32 J | 3.3 J | 120 J | 600 | 500 U | 500 U | 0.0368 J | 267 | 466 | 125 | 6.78 | 2.0E+02 | 3.1E+04 | 1.1E+03 | 1.1E+03 | 1.5E+03 |
| 3/21/2012 | 1300 | 140000 | 78000 | 500 U | 230 J | 500 U | 60 | 5.1 | 210 | 320 J | 100 J | 500 U | 0.0518 J | 129 | 813 J | 138 | 6.78 | 1.1E+03 | 4.9E+03 | 2.1E+03 | 2.5E+02 | 1.9E+02 |
| 6/20/2012 | 800 | 69000 | 16000 | 24 J | 68 J | 52 J | 18 | 1.2 J | 80 | 860 J | 66 J | 100 U | 0.2 U | 43.2 | 485 | 94.9 | 6.82 | 6.1E+02 | 3.4E+03 | 1.6E+03 | 1.9E+01 | 9.8E+01 |
| 9/19/2012 | 1100 | 130000 | 39000 | 500 U | 130 J | 200 J | 23 | 4.3 J | 250 | 480 J | 110 J | 500 U | 0.2 U | 128 | 264 J | 141 | 6.7 | 3.5E+03 | 1.4E+03 | 3.2E+03 | 6.3E+01 | 1.7E+03 |
| 12/4/2012 | 3200 | 410000 | 62000 | 250 U | 99 J | 240 J | 28 | 12 | 160 | 160 J | 84 J | 250 U | 39.5 | 1620 | 395 | 27.2 | 6.25 | 6.8E+02 | 9.5E+02 | 7.2E+05 | 9.2E+05 | 5.4E+04 |
| 4/4/2013 | 1500 | 300000 | 150000 | 500 U | 210 J | 450 J | 35 | 54 | 250 | 210 J | 160 J | 500 U | 58.2 | 1170 | 266 | 6.8 | 6.46 | 1.1E+04 | 2.7E+03 | 8.6E+04 | 7.6E+04 | 4.6E+02 |
| 7/15/2013 | 1200 J | 240000 | 170000 | 5000 U | 5000 U | 5000 U | 23 | 240 | 290 | 5000 U | 5000 U | 5000 U | 46 | 758 | 217 | 6.2 | 6.4 | 2.4E+03 | 5.9E+02 | 4.5E+03 | 2.3E+03 | 1.8E+01 |
| 10/15/2013 | 1200 J | 290000 | 250000 | 2500 U | 500 J | 860 J | 31 | 230 | 330 | 2500 U | 2500 U | 2500 U | 26.8 | 578 | 317 | 14.2 | 5.96 | 1.6E+04 | 8.3E+03 | 4.2E+04 | 3.5E+04 | 2.2E+03 |
| 12/3/2013 | 1500 J | 320000 | 260000 | 2500 U | 610 J | 1200 J | 34 | 200 | 470 | 2500 U | 2500 U | 2500 U | 16.3 | 508 J | 177 | 25.9 | 6.32 | 2.4E+04 | 5.3E+03 | 3.5E+05 | 9.8E+04 | 1.5E+04 |
| 4/15/2014 | 1200 | 200000 | 260000 | 500 U | 510 | 520 | 44 | 130 | 320 | 500 U | 500 U | 500 U | 8.16 | 464 | 249 | 40.2 | 6.38 | 2.3E+04 | 4.2E+02 | 3.3E+04 | 6.0E+02 | 6.1E+03 |
| 8/14/2014 | 1500 | 310000 | 310000 | 500 U | 610 | 1600 | 36 | 440 | 860 | 500 U | 500 U | 500 U | 5.86 | 410 | 221 | 35.7 | 5.95 | 3.8E+05 | 4.5E+03 | 2.0E+06 | 1.0E+04 | 7.2E+04 |
| 12/4/2014 | 1800 | 230000 | 190000 | 140 | 320 | 990 | 42 | 420 | 1500 | 100 U | 160 | 100 U | 4.26 | 313 | 295 | 42 | 6.07 | 4.0E+05 | 6.7E+03 | 1.2E+06 | 4.7E+03 | 5.8E+03 |
| 3/25/2015 | 1500 | 210000 | 190000 | 160 | 370 | 1100 | 35 | 420 | 2000 | 100 U | 150 | 100 U | 3.92 | 328 | 269 | 40.4 | 7.11 | 1.1E+05 | 1.7E+03 | 7.4E+05 | 4.3E+03 | 3.7E+04 |
| 10/16/2015 | 1300 | 130000 | 250000 | 500 U | 350 J | 1000 | 64 | 380 | 930 | 500 U | 500 U | 500 U | 2.2 | 374 | | | 7.17 | | | | | |
| 5/10/2016 | 1100 | 140000 D | 160000 D | 100 | 240 | 630 | 68 | 380 | 510 D | 17 J | 120 | 20 U | 0.0719 J | 259 | 400 | 172 | 7.32 | 1.1E+04 | 1.4E+05 | 1.2E+05 | 2.6E+03 | 1.3E+04 |
| 9/30/2016 | 1000 J | 130000 J | 110000 J | 1300 UJ | 1300 UJ | 690 J | 37 J | 85 J | 2900 J | 1300 UJ | 1300 UJ | 1300 UJ | 0.100 U | 270 | | | 6.62 | | | | | |
| 4/19/2017 | 5000 U | 130000 | 110000 | 5000 U | 5000 U | 5000 U | 28 J | 85 J | 270 J | 5000 U | 5000 U | 5000 U | 0.03 J | 280 | 460 | 190 | 6.85 | 4.3E+03 | 5.4E+04 | 7.3E+04 | 1.6E+03 | 2.0E+03 |
| 10/13/2017 | 5000 U | 120000 | 95000 | 5000 U | 5000 U | 5000 U | 60 | 180 | 430 | 5000 U | 5000 U | 5000 U | 0.100 U | 190 | | | 6.74 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: RMW- 3D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/29/2003 | | 810 | | | | 250 U | | | | 6200 | 72 J | | | | | | | | | | | |
| 5/19/2004 | | 170 | | | | 100 U | | | | 3900 | 40 J | | | | | | | | | | | |
| 6/22/2004 | | 1200 | | | | 250 U | | | | 9900 | 130 J | | | | | | | | | | | |
| 8/30/2005 | | 381 | 571 | 22.8 | 25.1 | 5.0 U | 1.6 | 0.10 U | 10.6 | 4080 | 77.2 | 5.0 U | | 2 | 767 | | | | | | | |
| 9/19/2006 | 28 | 117 | 281 | 10 U | 22 | 10 U | 12 U | 17 U | 31.3 | 2500 | 34 | 20 U | | 2.8 | 1220 | | | | | | | |
| 6/1/2009 | 13 U | 3.2 J | 300 | 13 U | 3.2 J | 21 | 1.0 U | 1.1 | 12 | 110 | 8 J | 13 U | 0.485 | 3.3 | 802 | 1.0 U | | | | | | |
| 7/12/2010 | 5 U | 3.9 J | 760 | 2.2 J | 11 | 70 J | 5 U | 3 J | 27 | 280 | 15 | 5 U | 0.474 | 3 | 882 | 0.46 | | | | | | |
| 6/23/2011 | 770 J | 14000 | 1900 | 1000 U | 1200 | 1000 U | 2.7 J | 1.1 J | 19 | 96000 | 700 J | 1000 U | 0.414 | 3.1 | 781 | 0.49 | 7.37 | | | | | |
| 8/24/2011 | 1400 | 14000 | 14000 | 73 J | 1100 | 250 U | 9.2 | 1.7 J | 33 | 64000 | 620 | 250 U | 0.866 | 10500 | 529 | 21.4 | 6.1 | | | | | |
| 11/9/2011 | 130 J | 1500 | 9300 | 500 U | 570 | 500 U | 4 J | 5 U | 25 | 53000 | 340 J | 500 U | 0.0541 J | 7.4 | 614 | | 6.97 | | | | | |
| 3/28/2012 | 90 J | 620 | 5900 | 250 U | 260 | 250 U | 4.7 J | 5 U | 26 | 33000 | 190 J | 250 U | 0.0326 J | 8.6 | 710 | 36.4 | 6.88 | | | | | |
| 6/26/2012 | 100 | 460 | 3800 | 100 U | 210 | 100 U | 5.7 | 5 U | 27 | 25000 | 130 | 100 U | 0.0697 J | 9 | 978 | 15.2 | 6.96 | | | | | |
| 9/25/2012 | 45 J | 170 | 3100 | 100 U | 160 | 27 J | 3.6 J | 5 UJ | 22 J | 18000 | 130 | 100 U | 0.0954 J | 8.2 | 552 J | 19.4 | 7.09 | | | | | |
| 12/6/2012 | 39 J | 200 | 4100 | 12 J | 790 | 14 J | 3.5 J | 5 U | 21 | 19000 | 150 | 50 U | 0.063 J | 23.6 | 435 | 48.6 | 6.91 | | | | | |
| 4/8/2013 | 19 | 99 | 3500 | 20 | 810 | 51 | 2.6 J | 3.4 J | 41 | 17000 | 210 | 10 U | 0.2 U | 21.2 | 471 | 63 | 7.46 | | | | | |
| 7/19/2013 | 9.7 J | 42 J | 2800 | 12 J | 750 | 61 | 2.4 J | 2.8 J | 38 | 17000 | 160 | 50 U | 0.2 U | 3.8 | 574 | 30 | 6.99 | | | | | |
| 10/11/2013 | 11 J | 32 J | 2600 | 8.1 J | 140 | 59 | 1 J | 3.9 J | 36 | 10000 | 150 | 50 U | 0.0701 J | 21.1 | 462 | 22.7 | 6.97 | | | | | |
| 12/4/2013 | 100 U | 45 J | 1600 | 100 U | 71 J | 33 J | 14 | 1.5 J | 70 | 7000 | 96 J | 100 U | 0.0701 J | 5.8 | 590 J | 22.3 | 7.1 | | | | | |
| 4/14/2014 | 8.7 | 49 | 1800 | 5.3 | 190 | 45 | 5 U | 2.9 J | 43 | 8000 | 120 | 5 U | 0.0485 J | 8.6 | 461 | 11.8 | 7.21 | | | | | |
| 8/21/2014 | 6.3 J | 39 | 2100 | 6.8 J | 86 | 71 | 3.3 J | 3.8 J | 60 | 9100 | 180 | 10 U | 0.0382 J | 3.9 | 637 | 21.5 | 7.34 | | | | | |
| 12/9/2014 | 5.7 | 17 | 1700 | 5.7 | 130 | 82 | 4.5 J | 5.9 | 66 | 7400 | 160 | 5 U | 0.0466 J | 1.5 | 554 | 22.2 | 7.67 | | | | | |
| 3/31/2015 | 10 U | 25 | 1900 | 5.2 J | 110 | 120 | 1.7 J | 7.9 | 200 | 7100 J | 180 | 10 U | 0.4 U | 4.5 | 358 | 27.7 | 7.24 | | | | | |
| 10/15/2015 | 10 U | 16 | 2400 | 9.3 J | 210 | 96 | 2.5 J | 4.6 J | 150 | 8700 | 170 | 10 U | 0.0712 J | 5.3 | | | 6.52 | | | | | |
| 5/12/2016 | 10 U | 32 | 2700 | 10 | 310 | 180 | 8.1 | 7.3 | 260 | 12000 D | 230 | 10 U | 0.400 U | 2.4 | 630 | 27.9 | 7.19 | | | | | |
| 9/28/2016 | 1300 U | 1300 U | 2300 | 1300 U | 1300 U | 1300 U | 1.4 | 1 | 28 | 15000 | 1300 U | 1300 U | 0.072 J | 2.4 | | | 7.1 | | | | | |
| 4/14/2017 | 200 U | 200 U | 1700 | 200 U | 100 J | 180 J | 0.65 | 5.2 | 120 | 8000 | 190 J | 200 U | 0.07 J | 2.9 | 440 | 110 | 7.51 | | | | | |
| 10/10/2017 | 200 U | 200 U | 1200 | 200 U | 200 U | 200 | 0.84 J | 3 | 40 | 4100 | 100 J | 200 U | 0.17 | 3.3 | | | 7.16 | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: RMW- 3S**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/19/2006 | 1 U | 1 U | 9 | 1 U | 1 U | 1 U | 12 U | 17 U | 10 U | 1 U | 1 U | 2 U | | 3.5 | 2590 | | | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: RMW- 4D**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/29/2003 | | 72000 D | | | | 1000 U | | | | 2800 | 1000 U | | | | | | | | | | | |
| 5/19/2004 | | 29000 | | | | 360 J | | | | 4500 | 1000 U | | | | | | | | | | | |
| 8/31/2005 | | 19200 | 11300 | 14.8 J | 43 | 475 | 2.5 | 2.7 | 32.7 | 701 | 38.1 | 25 U | | 2.8 | 1140 | | | | | | | |
| 9/19/2006 | 514 | 20800 | 17400 | 68 J | 88 | 526 | 12 U | 25.3 | 65.9 | 308 | 105 | 100 U | | 3.2 | 1210 | | | | | | | |
| 1/15/2008 | 570 J | 130000 | 18000 | 5.0 U | 5.0 U | 430 J | 19 | 14 | 110 | 5.0 U | 5.0 U | 5.0 U | | 7.67 | 1340 | | | | | | | |
| 5/29/2008 | 600 | 67000 | 21000 | 500 U | 500 U | 610 | 16 | 12 | 95 | 500 U | 500 U | | | 4.9 | 1370 J | | | | | | | |
| 7/24/2008 | 5000 UJ | 450 J | 100000 J | 5000 UJ | 5000 UJ | 1100 J | 15 J | 46 J | 110 J | 5000 UJ | 5000 UJ | 5000 UJ | | 387 J | 1060 J | | | | | | | |
| 9/30/2008 | 1300 UJ | 3700 J | 38000 J | 370 J | 75 J | 680 J | 23 | 7.1 | 130 | 1300 UJ | 1300 UJ | 1300 UJ | | 294 | 810 | | | | | | | |
| 12/11/2008 | 5.0 U | 660 | 5400 | 28 J | 5.0 U | 79 J | 28 | 2.1 | 130 | 5.0 U | 5.0 U | 5.0 U | | 168 | 130 | | | | | | | |
| 6/3/2009 | 9.4 J | 620 | 2800 | 12 J | 100 U | 95 | 21 | 7.4 | 330 | 12 J | 100 U | 100 U | 0.0723 J | 160 | 572 | 247 | | | | | | |
| 6/4/2009 | 250 U | 1300 | 4900 | 16 J | 250 U | 110 | 27 | 19 J | 270 | 250 U | 250 U | 250 U | | | | | | | | | | |
| 6/5/2009 | 250 U | 1200 | 5200 | 16 J | 250 U | 82 J | 31 J | 9.7 J | 240 J | 250 U | 250 U | 250 U | | | | | | | | | | |
| 10/12/2009 | 11 J | 1100 | 3800 | 10 J | 8.4 J | 74 | 35 | 7.6 | 210 | 8.4 J | 8 J | 100 U | 0.0317 U | 149 | 569 | | | | | | | |
| 7/16/2010 | 6.1 | 380 | 900 | 6.9 | 2.8 J | 73 | 36 | 160 | 3800 | 5.5 | 5.1 | 5 U | 0.2 U | 140 | 803 | 189 | | | | | | |
| 6/24/2011 | 130 J | 54000 | 32000 | 81 J | 89 J | 880 | 19 | 52 | 1900 | 250 U | 250 U | 250 U | 0.2 U | 133 | 843 | 173 | 7.41 | | | | | |
| 8/23/2011 | 50 J | 26000 | 19000 | 42 J | 42 J | 470 | 39 | 97 | 4800 | 100 U | 25 J | 100 U | 0.0153 J | 124 | 395 J | 172 | 7.11 | | | | | |
| 11/8/2011 | 68 J | 20000 | 17000 | 36 J | 38 J | 510 | 39 J | 230 J | 3900 | 100 U | 23 J | 100 U | 0.0208 J | 109 | 342 J | 157 | 7.29 | | | | | |
| 3/20/2012 | 50 U | 800 | 1700 | 50 U | 50 U | 300 | 12 | 210 | 8800 | 50 U | 50 U | 50 U | 0.0271 J | 80.1 | 94.9 J | 176 | 7.12 | | | | | |
| 6/27/2012 | 87 J | 18000 | 24000 | 40 J | 59 J | 830 | 19 | 400 | 5600 | 180 | 49 J | 130 U | 0.2 U | 55.9 | 241 J | 192 | 6.96 | | | | | |
| 9/25/2012 | 82 | 11000 | 18000 | 33 J | 51 | 1000 | 21 | 350 | 6000 | 96 | 45 J | 50 U | 0.2 U | 82.8 | 111 J | 209 | 6.7 | | | | | |
| 12/10/2012 | 50 J | 4300 | 48000 | 55 J | 32 J | 950 | 22 | 360 | 5500 | 72 J | 94 J | 100 UJ | 0.0681 J | 754 | 496 | 247 | 5.85 | | | | | |
| 4/10/2013 | 19 J | 2100 | 31000 | 57 J | 38 J | 1300 | 24 | 420 | 6500 | 22 J | 66 J | 100 U | 0.2 U | 197 | 1090 | 209 | 6.62 | | | | | |
| 7/12/2013 | 250 U | 3200 | 31000 | 62 J | 250 U | 1400 | 34 | 390 | 6500 | 250 U | 71 J | 250 U | 0.2 U | 368 | 51.7 | 241 | 6.85 | | | | | |
| 10/14/2013 | 500 U | 8500 | 55000 | 97 J | 500 U | 1400 | 33 | 300 | 2800 | 500 U | 500 U | 500 U | 0.4 U | 390 | 189 | 276 | 6.46 | | | | | |
| 12/12/2013 | 20 J | 2500 | 61000 | 87 J | 75 J | 1400 | 36 | 390 | 4100 | 21 J | 120 | 100 U | 0.4 U | 208 | 313 | 250 | 6.73 | | | | | |
| 4/9/2014 | 50 U | 2500 | 67000 | 100 | 91 | 1800 | 25 | 560 | 9600 | 50 U | 88 | 50 U | 0.283 J | 294 | 17 | 198 | 6.51 | | | | | |
| 8/21/2014 | 100 U | 1500 | 57000 | 93 J | 80 J | 3500 | 38 | 740 | 10000 | 100 U | 70 J | 100 U | 0.0512 J | 226 | 131 | 154 | 6.77 | | | | | |
| 12/8/2014 | 50 U | 1400 | 61000 | 100 | 94 | 3500 | 32 | 700 | 9700 | 50 U | 69 | 50 U | 0.4 U | 247 | 248 | 190 | 6.35 | | | | | |
| 3/31/2015 | 50 U | 1400 | 44000 | 91 | 55 | 4500 | 50 | 830 | 10000 | 50 UJ | 59 | 50 U | 0.4 U | 233 | 133 | 236 | 6.52 | | | | | |
| 5/17/2016 | 20 U | 2100 | 17000 D | 57 | 27 | 4900 | 23 | 2000 D | 9800 D | 20 U | 32 | 20 U | 0.400 U | 117 | 547 | 60.2 | 6.74 | | | | | |
| 9/29/2016 | 500 UJ | 1100 | 15000 | 500 U | 500 U | 5400 | 27 J | 1600 J | 5200 J | 500 UJ | 500 U | 500 U | 0.100 U | 150 | | | 6.88 | | | | | |
| 4/20/2017 | 10 U | 23 | 3000 | 26 | 7.7 J | 2900 | 8.6 | 670 | 5200 | 10 U | 8.5 J | 10 U | 0.10 U | 78 | 260 | 74 | 7.33 | | | | | |
| 10/13/2017 | 100 U | 93 J | 4500 | 55 J | 100 U | 5800 | 43 | 2000 | 8800 D | 100 U | 100 U | 100 U | 0.100 U | 77 | | | 6.64 | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: TP- 1**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/3/2001 | | 6 U | | | | | | | | 6 U | 6 U | | | | | | | | | | | |
| 12/5/2014 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | | | 1 U | 1 U | 1 U | | | | | | | | | | |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| J | Indicates an estimated value. |
| U | Analyte was not detected above the reporting limit. |
| UJ | The analyte was not detected. The reporting limit is an approximate value. |
| J- | Indicates estimated value, biased low. |
| J+ | Indicates estimated value, biased high. |
| D | Result reported from a secondary dilution analysis. |
| R | The sample results are rejected. |

| | |
|---|---|
| µg/L | micrograms per liter |
| mg/L | milligrams per liter |
| cells/ml | cells per milliliter |
| s.u. | standard units |

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: TP- 2**

| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/4/2001 | | 6 U | | | | | | | | 6 U | 24 | | | | | | | | | | | |

µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

**MONITORING WELL GROUNDWATER ANALYTICAL RESULT SUMMARY**
**EKONOL FACILITY**
**TOWN OF WHEATFIELD, NEW YORK**

**Well ID: TP- 3**

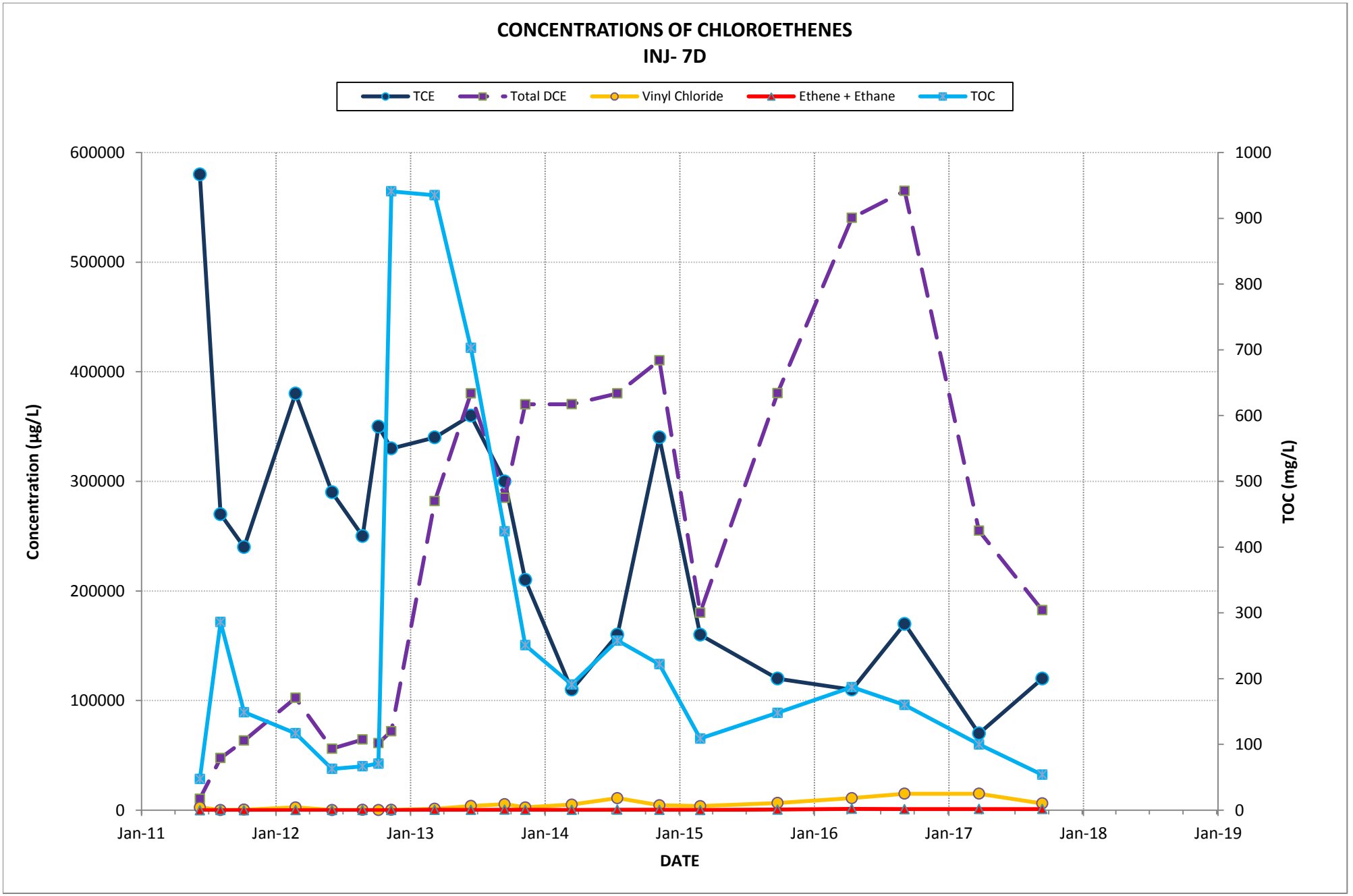
| Date | PCE (µg/L) | TCE (µg/L) | Cis-1,2-DCE (µg/L) | Trans-1,2-DCE (µg/L) | 1,1-DCE (µg/L) | Vinyl Chloride (µg/L) | Ethane (µg/L) | Ethene (µg/L) | Methane (µg/L) | 1,1,1-Trichloroethane (µg/L) | 1,1-Dichloroethane (µg/L) | Chloroethane (µg/L) | Dissolved Iron (mg/L) | TOC (mg/L) | Sulfate (mg/L) | Sulfide (mg/L) | pH (s.u.) | BVC (cells/ml) | DHBt (cells/ml) | DHC (cells/ml) | TCEr (cells/ml) | VCR (cells/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/4/2001 | | 7 U | | | | | | | | 7 U | 7 U | | | | | | | | | | | |

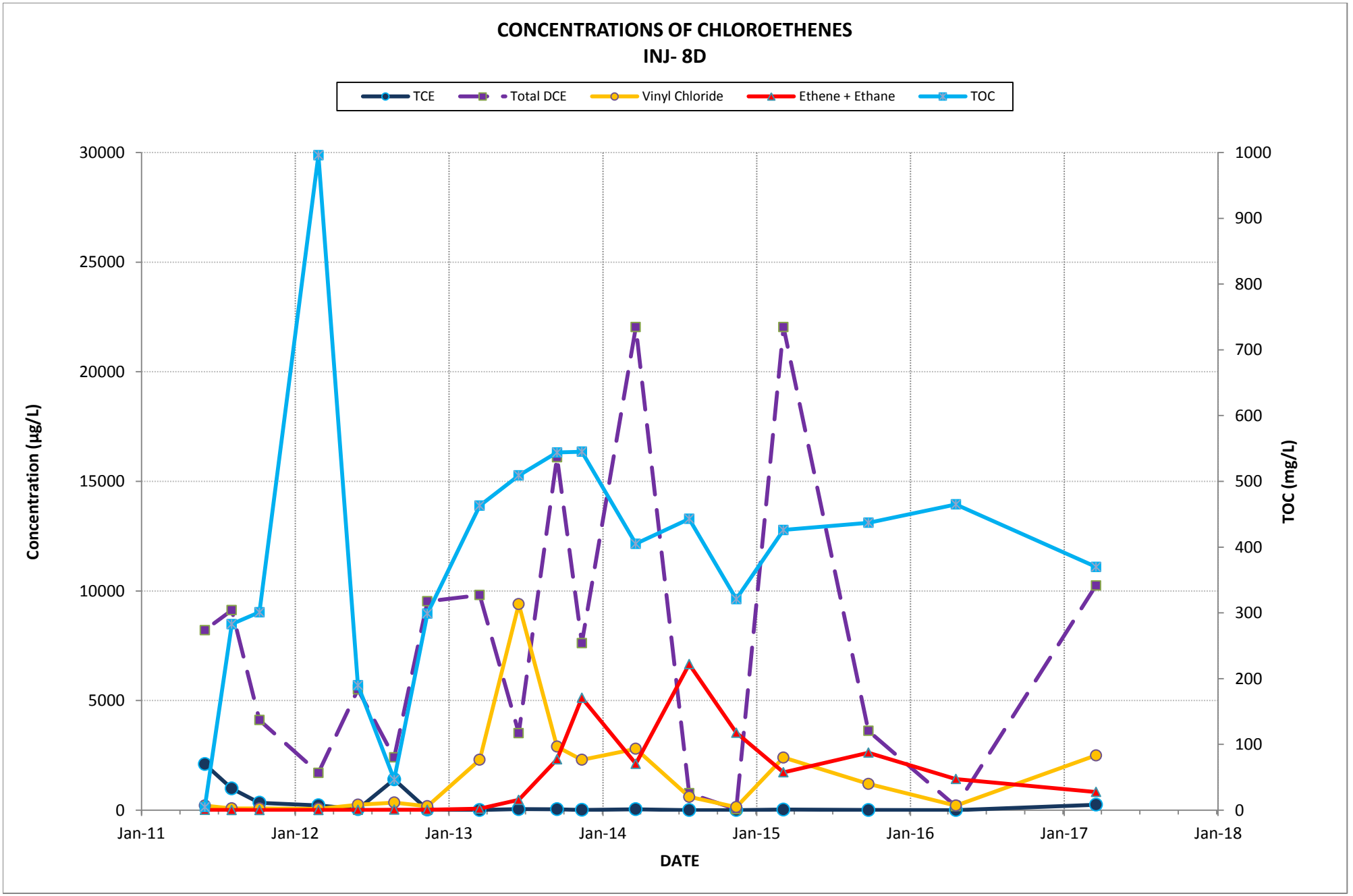
µg/L micrograms per liter
mg/L milligrams per liter
J Indicates an estimated value.
U Analyte was not detected above the reporting limit.
UJ The analyte was not detected. The reporting limit is an approximate value.
J- Indicates estimated value, biased low.
J+ Indicates estimated value, biased high.
D Result reported from a secondary dilution analysis.
R The sample results are rejected.

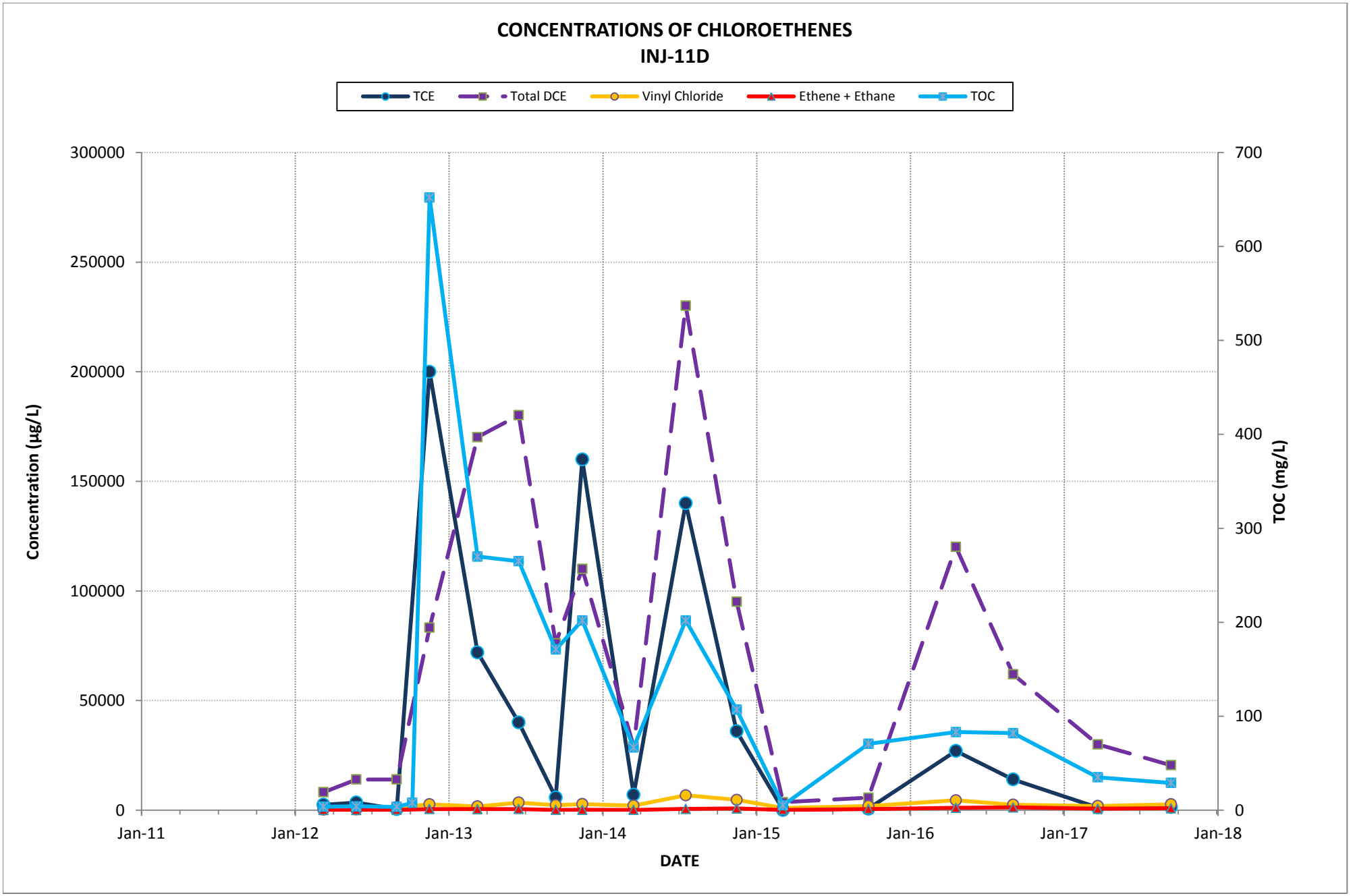
µg/L micrograms per liter
mg/L milligrams per liter
cells/ml cells per milliliter
s.u. standard units

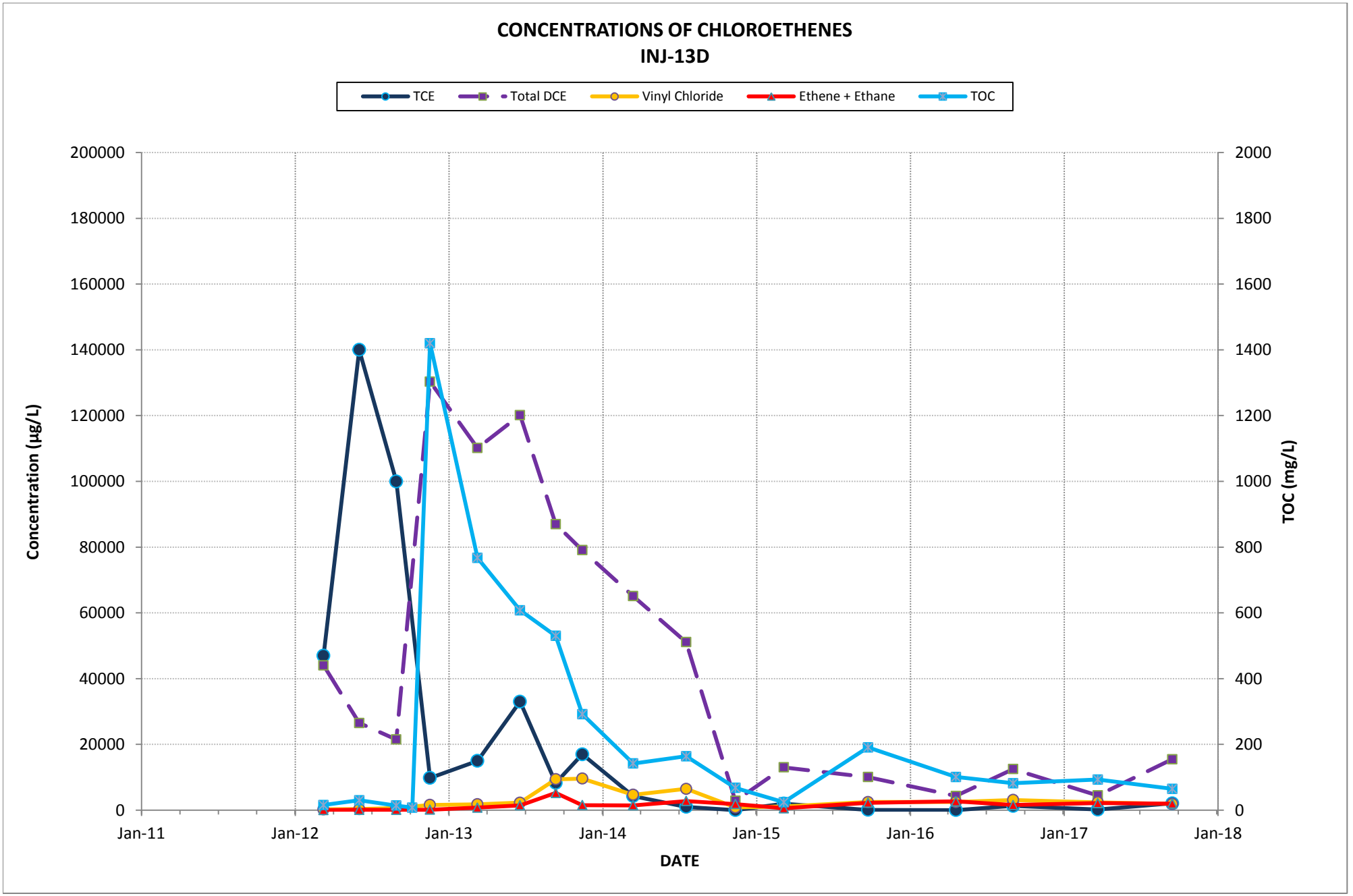
# Appendix E

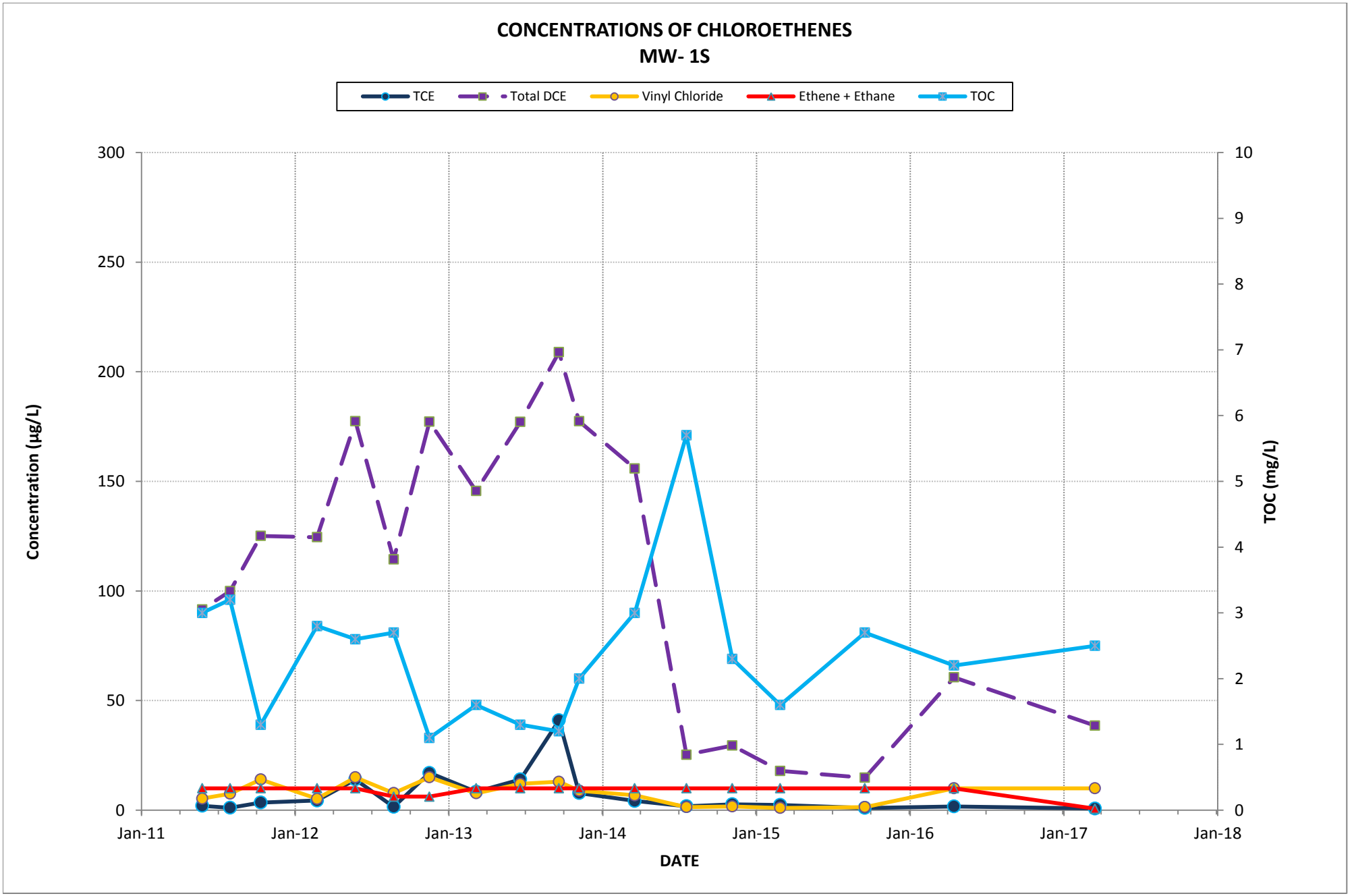
# Time Series Plots for Wells Sampled

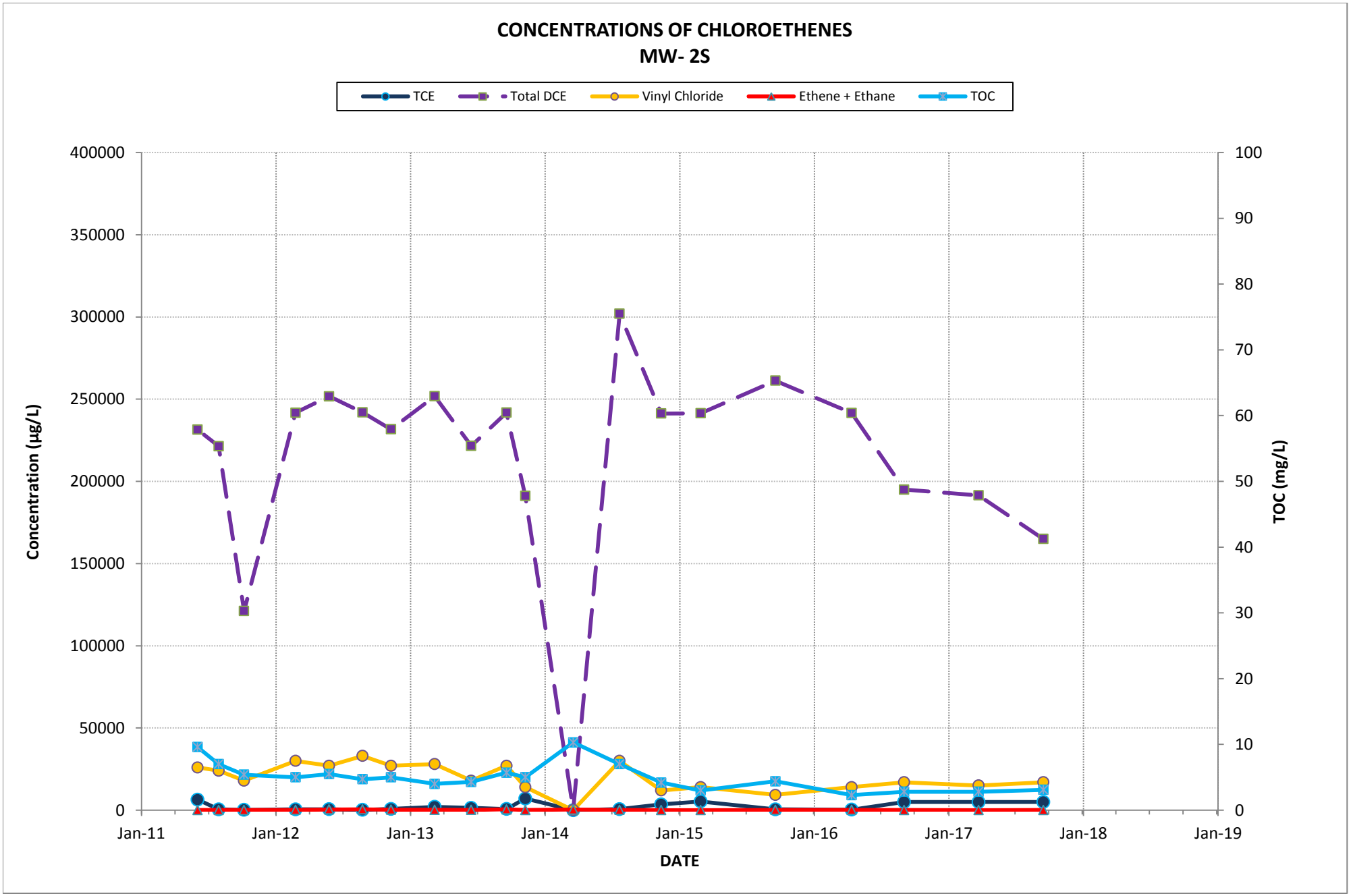

CONCENTRATIONS OF CHLOROETHENES
INJ- 7D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
600000
500000
400000
300000
200000
100000
0
1000
900
800
700
600
500
400
300
200
100
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
DATE

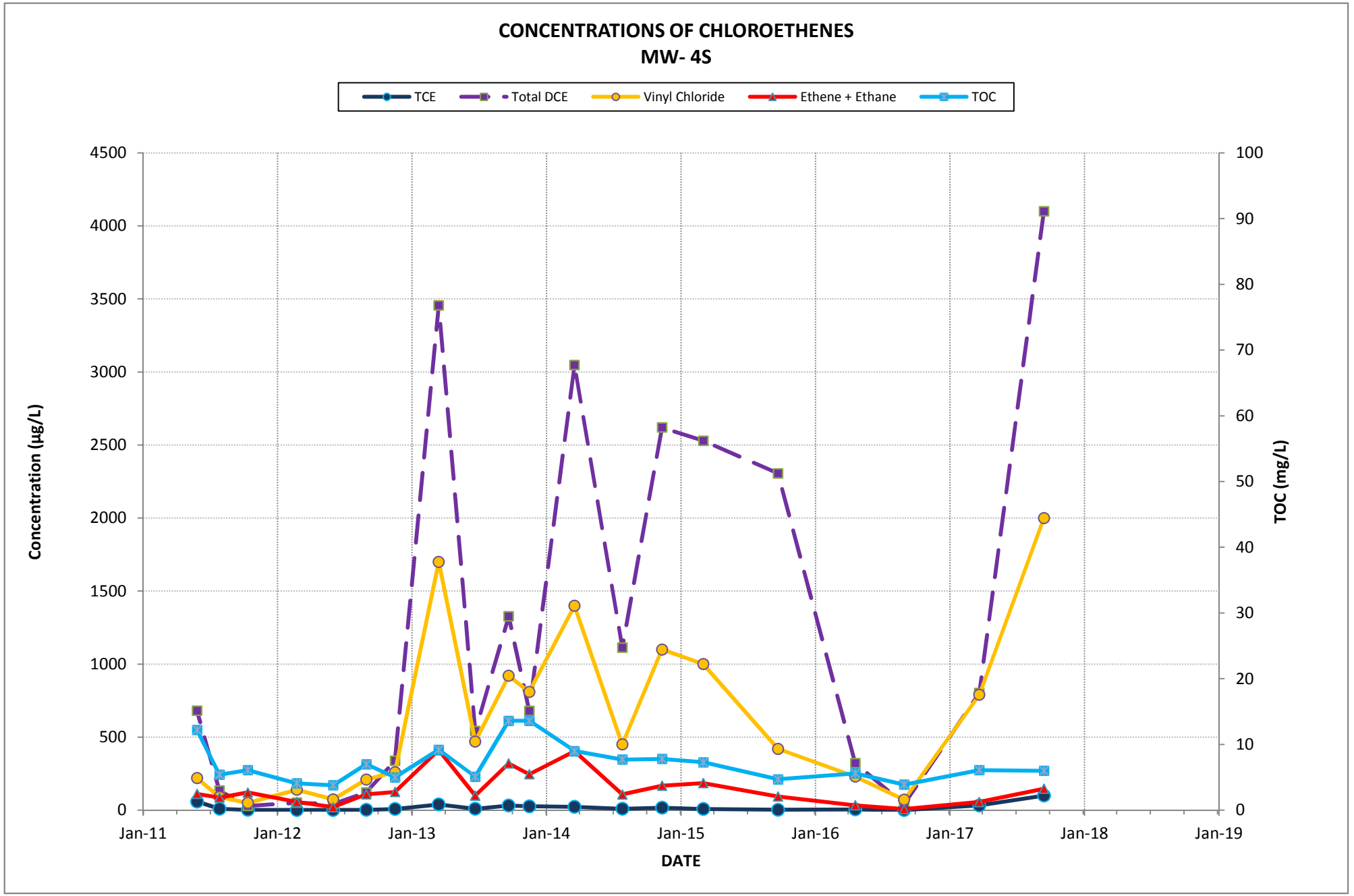

CONCENTRATIONS OF CHLOROETHENES
INJ- 8D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
30000
25000
20000
15000
10000
5000
0
1000
900
800
700
600
500
400
300
200
100
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18

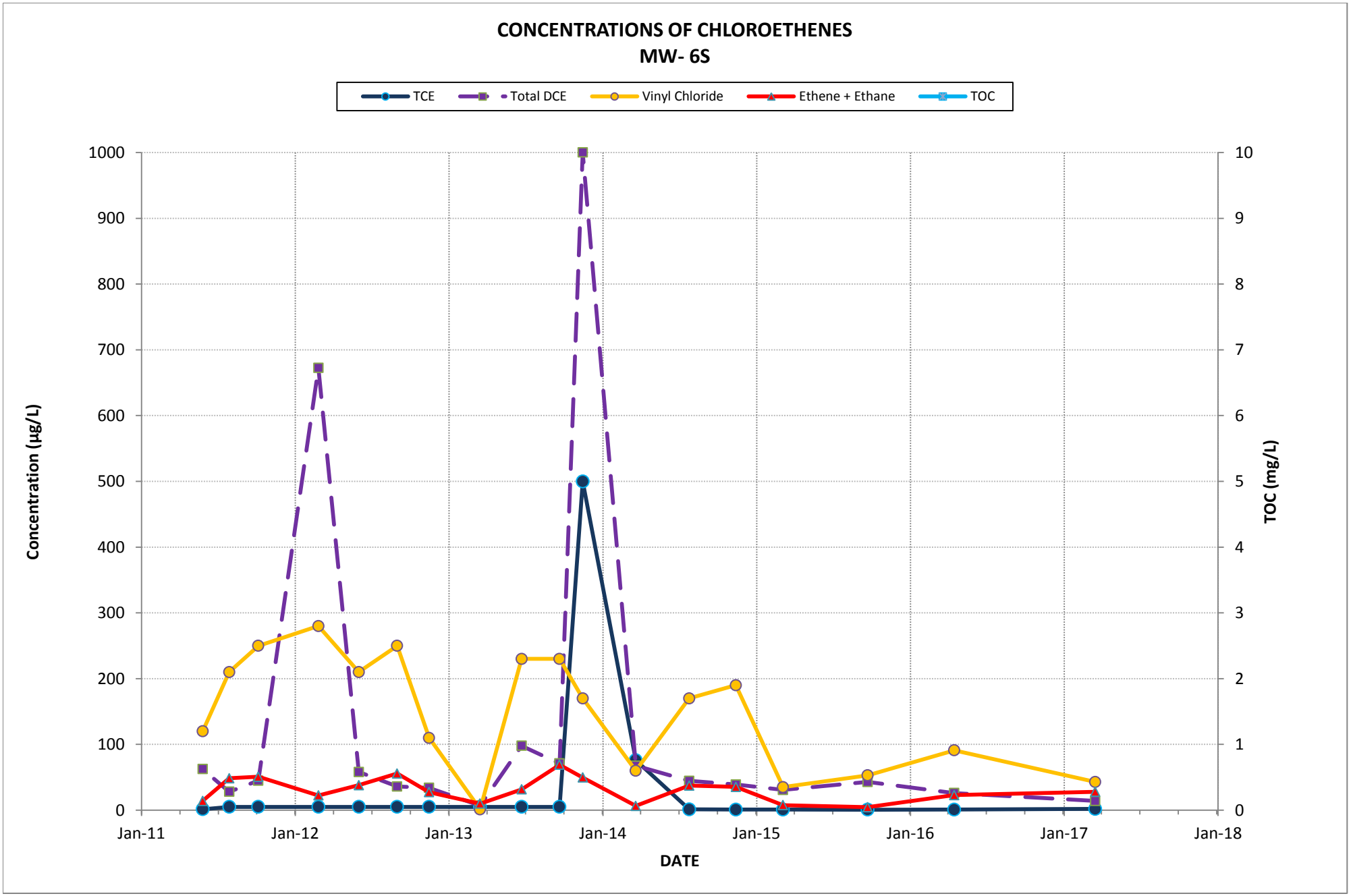

CONCENTRATIONS OF CHLOROETHENES
INJ-11D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
300000
250000
200000
150000
100000
50000
0
700
600
500
400
300
200
100
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18

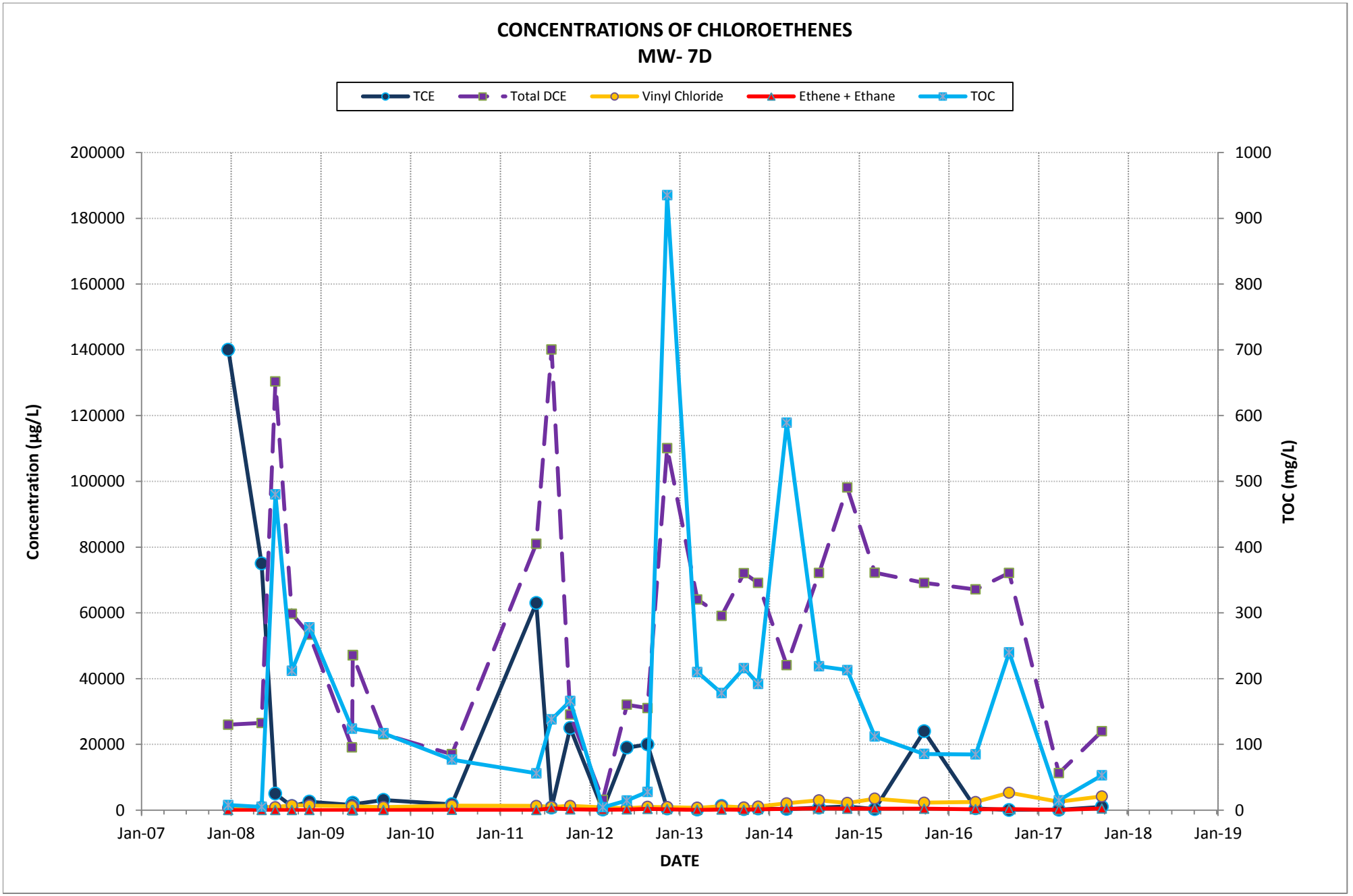

CONCENTRATIONS OF CHLOROETHENES
INJ-13D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
DATE

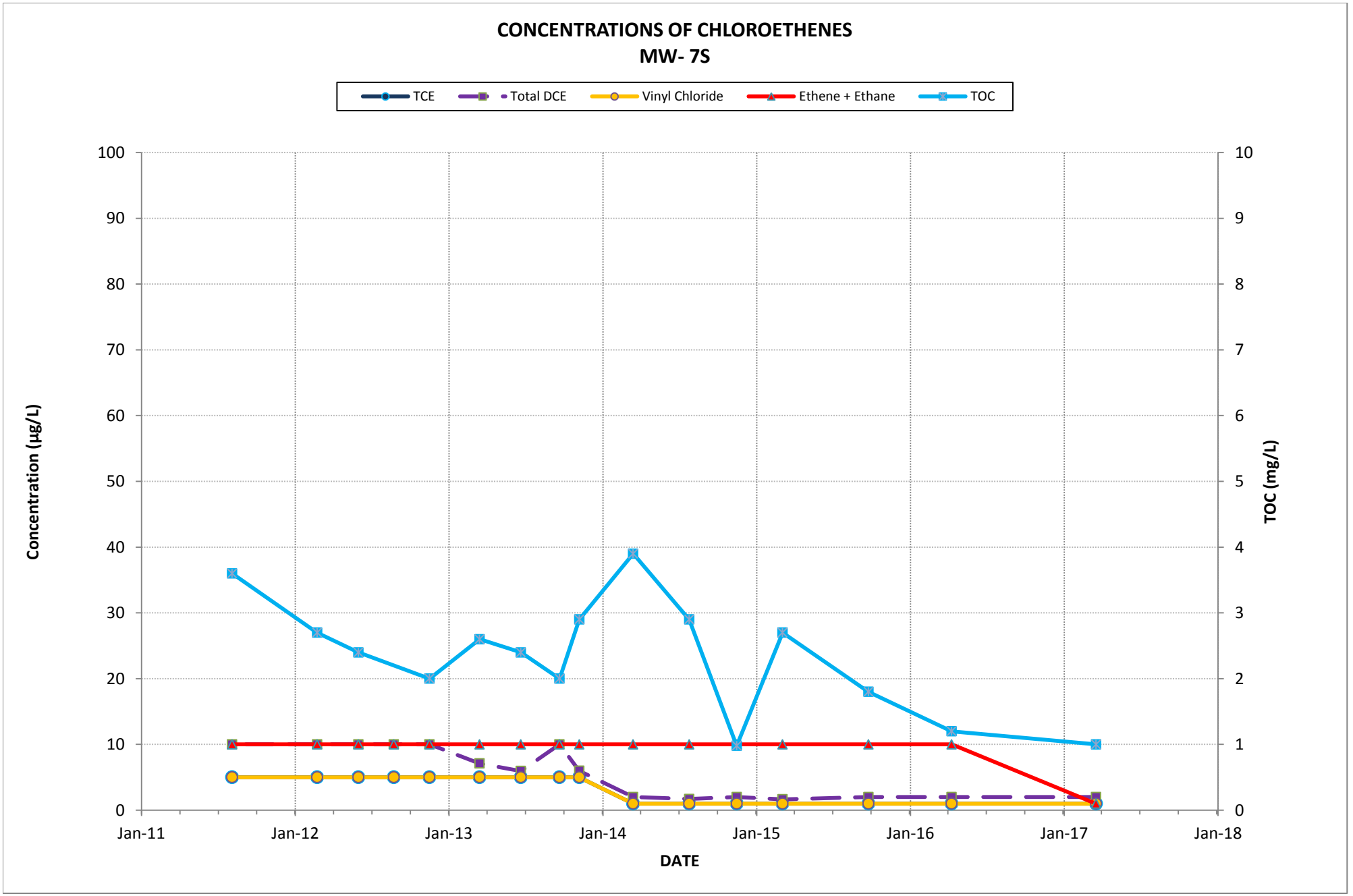

CONCENTRATIONS OF CHLOROETHENES
MW- 1S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
300
250
200
150
100
50
0
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18

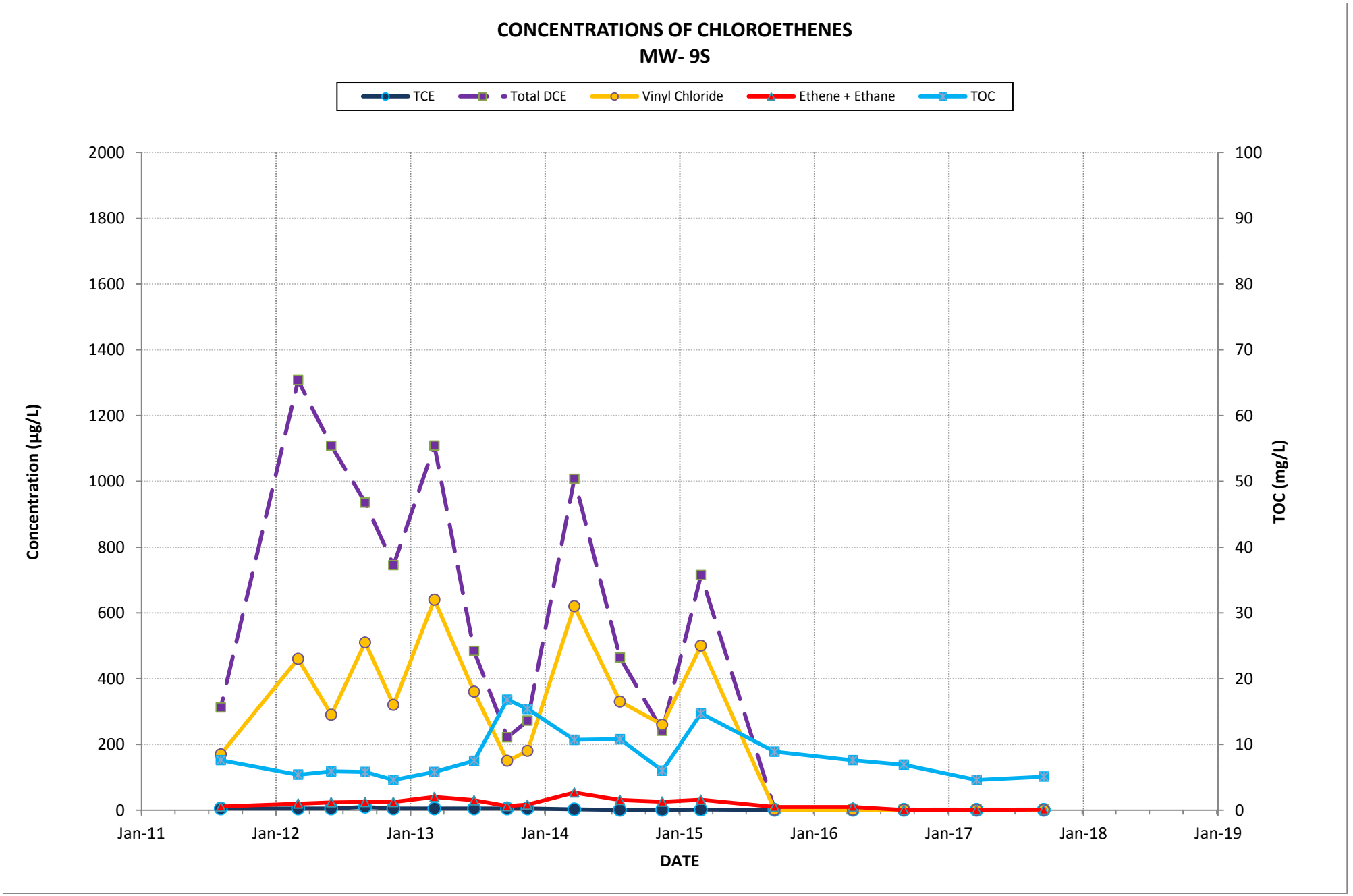

CONCENTRATIONS OF CHLOROETHENES
MW- 2S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
400000
350000
300000
250000
200000
150000
100000
50000
0
100
90
80
70
60
50
40
30
20
10
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Jan-15
Jan-16
Jan-17
Jan-18
Jan-19

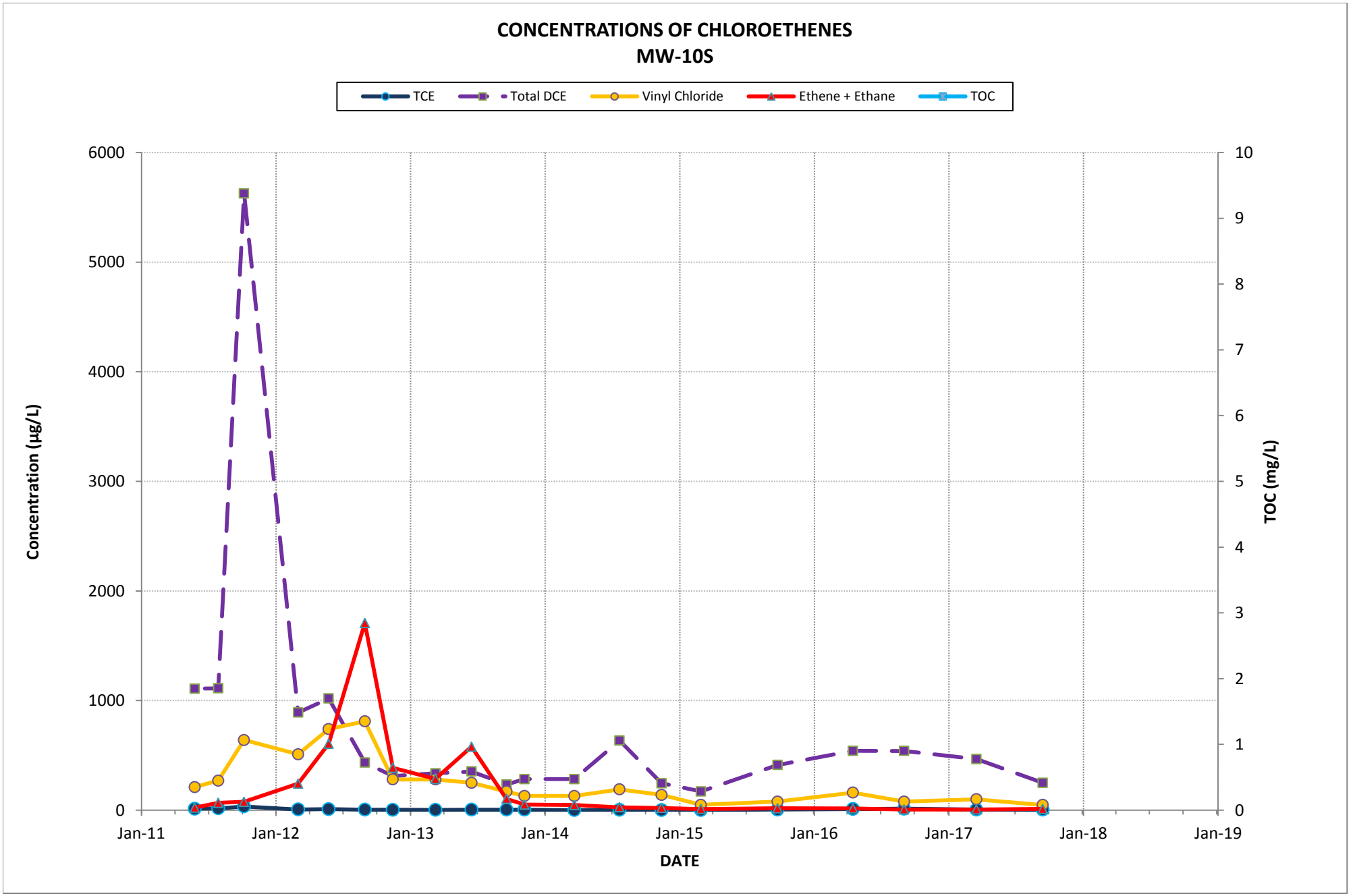

CONCENTRATIONS OF CHLOROETHENES
MW- 4S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
4500
4000
3500
3000
2500
2000
1500
1000
500
0
100
90
80
70
60
50
40
30
20
10
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19

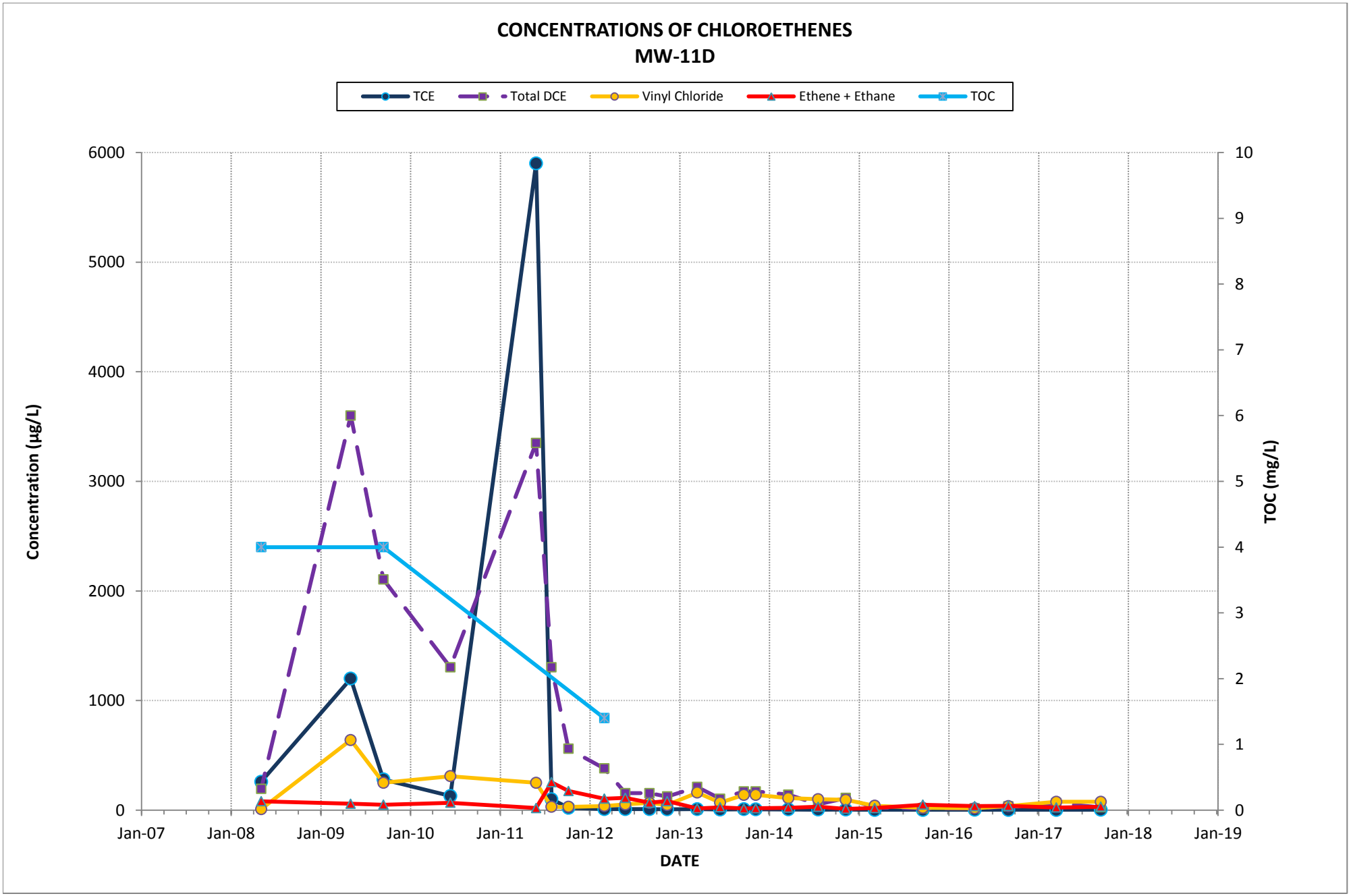

CONCENTRATIONS OF CHLOROETHENES
MW- 6S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
1000
900
800
700
600
500
400
300
200
100
0
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18

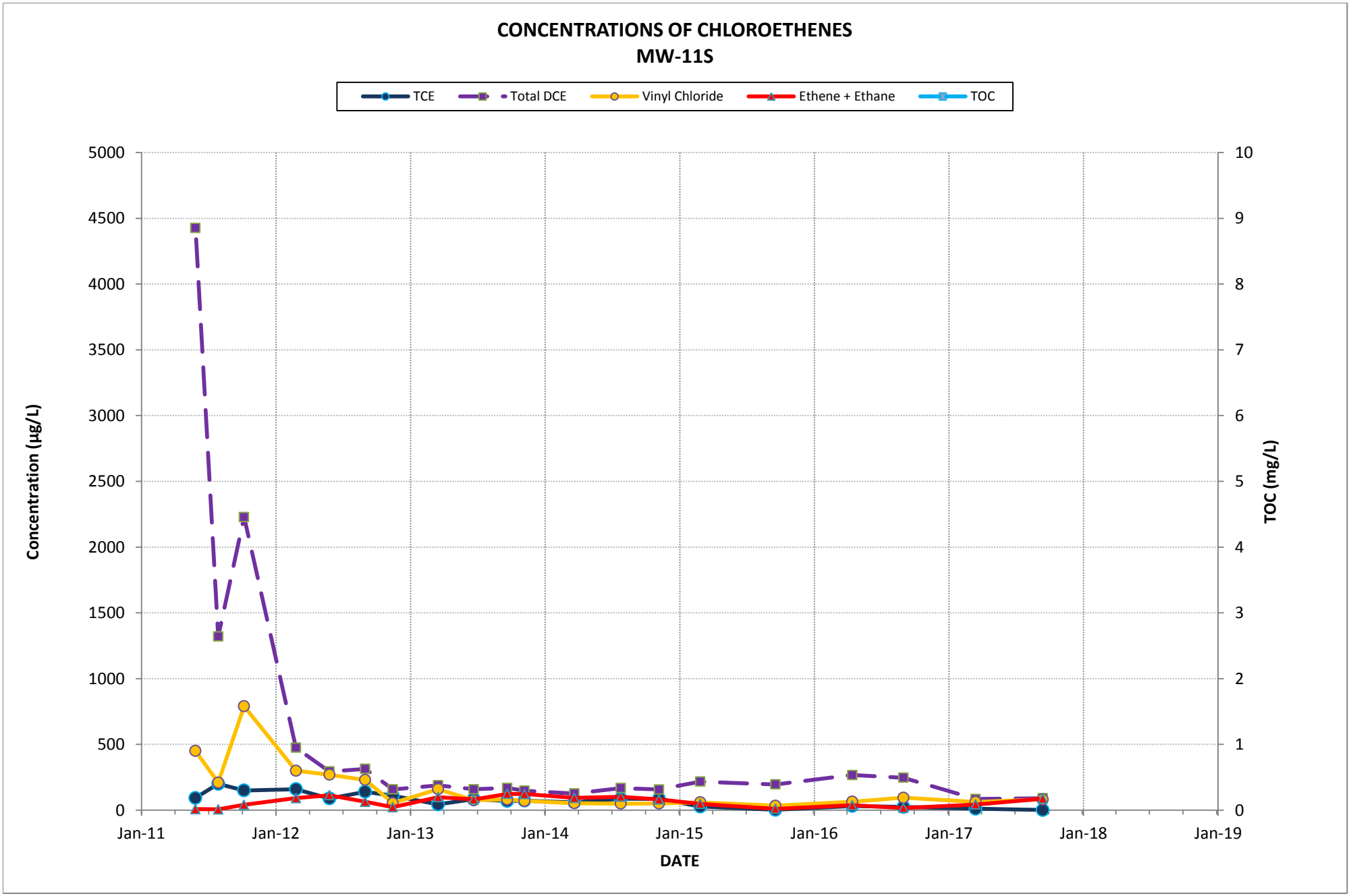

CONCENTRATIONS OF CHLOROETHENES
MW- 7D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1000
900
800
700
600
500
400
300
200
100
0
Jan-07
Jan-08
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Jan-17
Jan-18
Jan-19

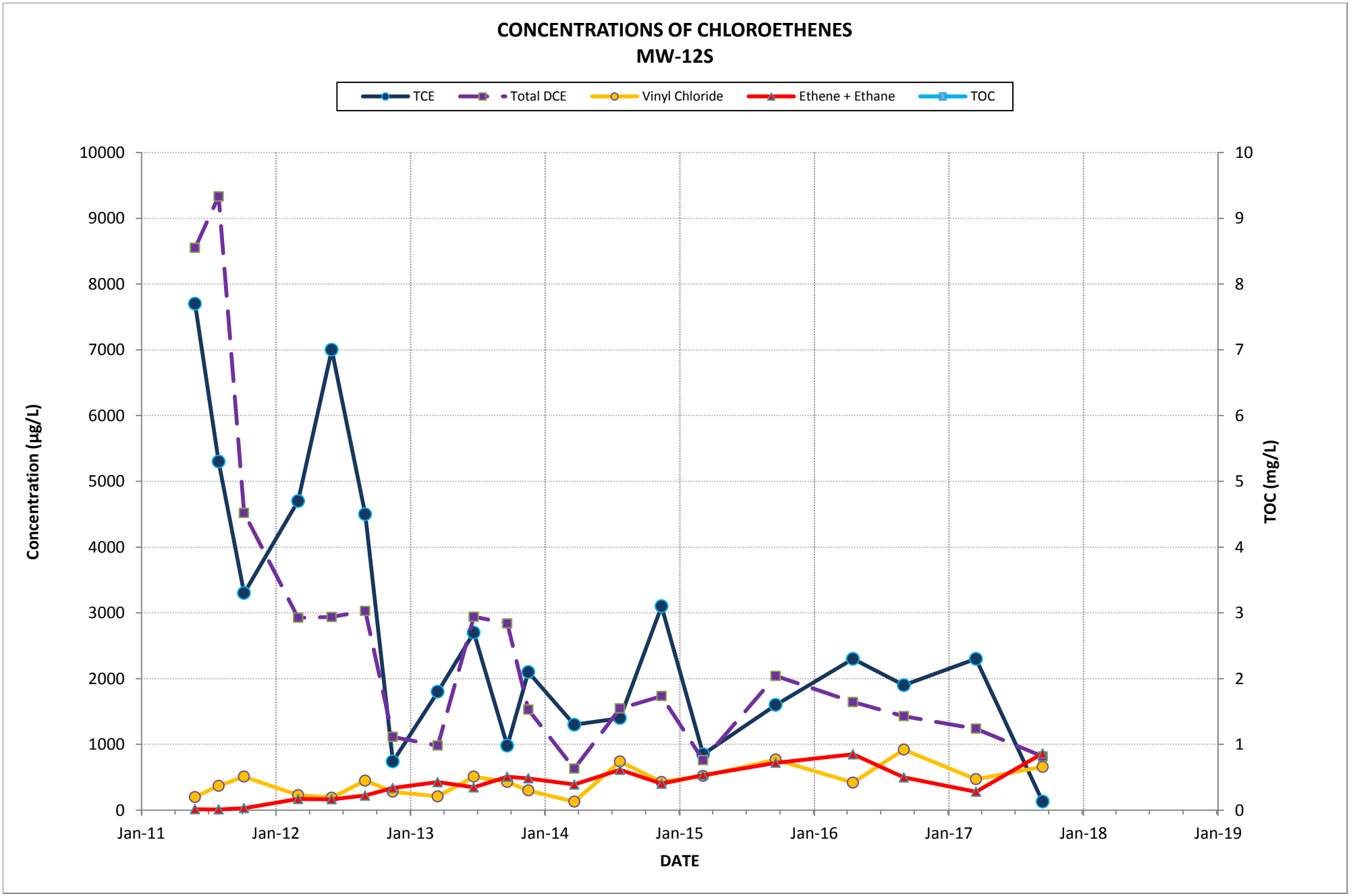

CONCENTRATIONS OF CHLOROETHENES
MW- 7S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
0
10
20
30
40
50
60
70
80
90
100
0
1
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6
7
8
9
10

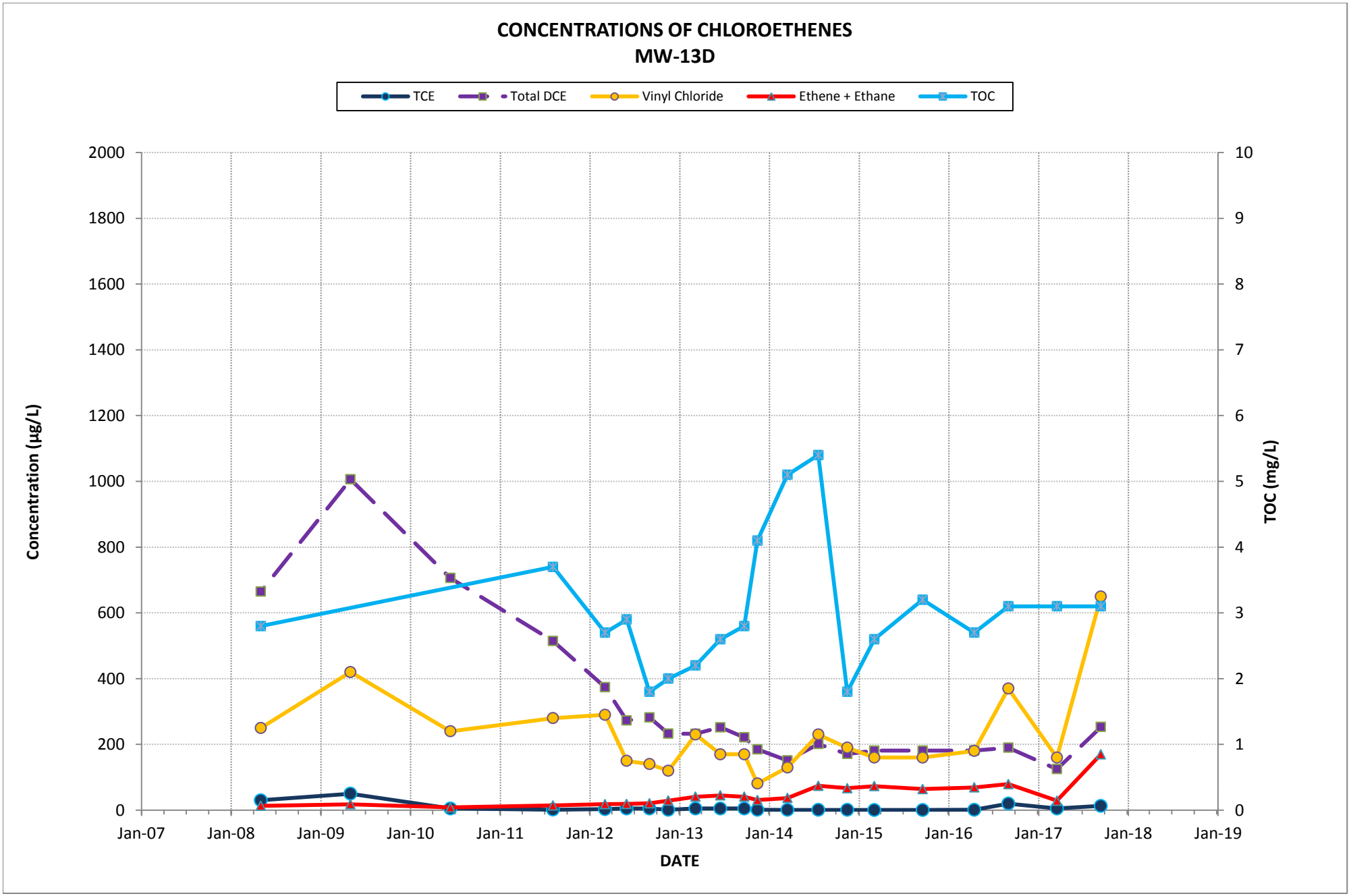

CONCENTRATIONS OF CHLOROETHENES
MW- 9S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
2000
1800
1600
1400
1200
1000
800
600
400
200
0
100
90
80
70
60
50
40
30
20
10
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19

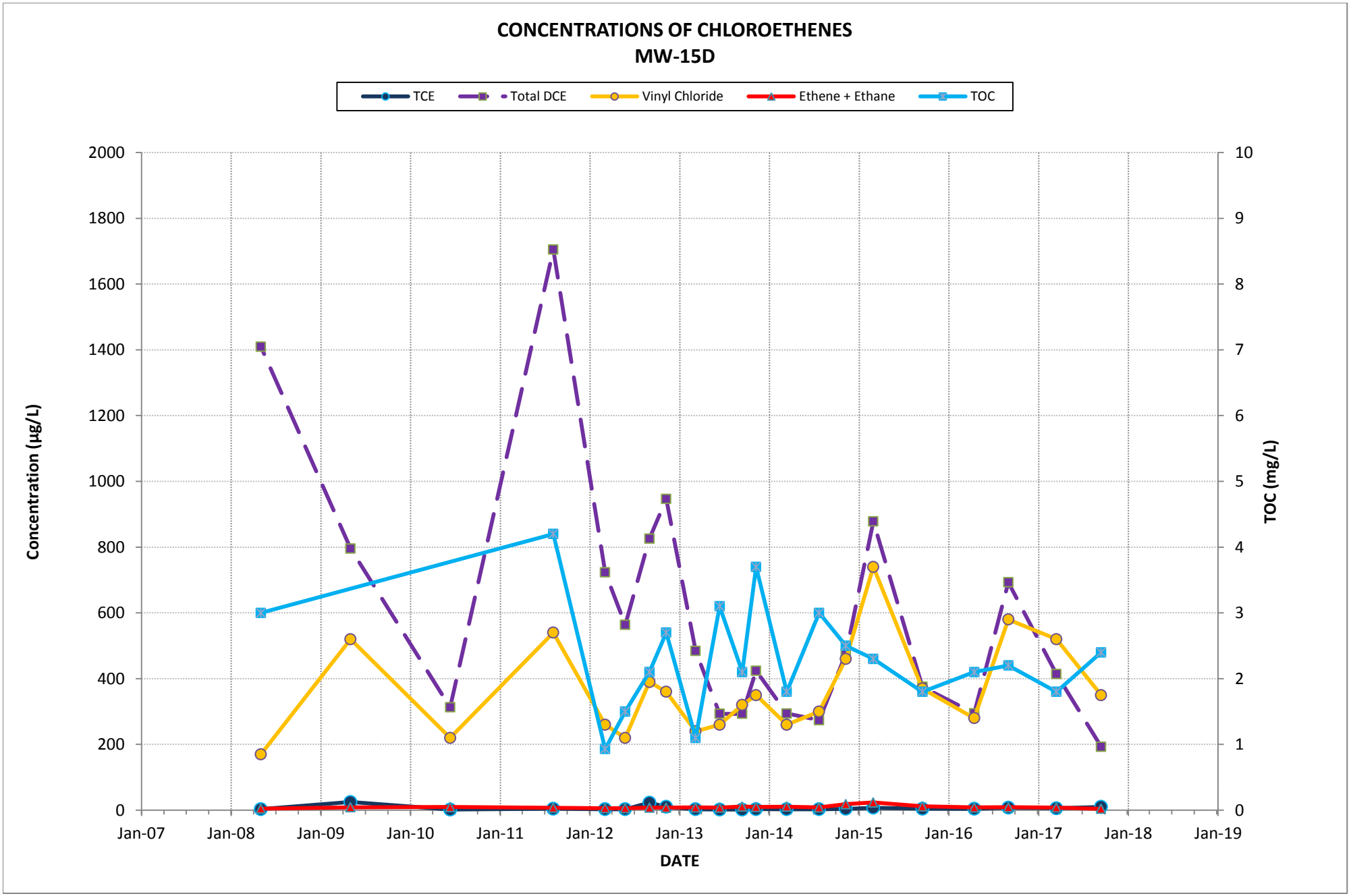

CONCENTRATIONS OF CHLOROETHENES
MW-10S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
6000
5000
4000
3000
2000
1000
0
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19

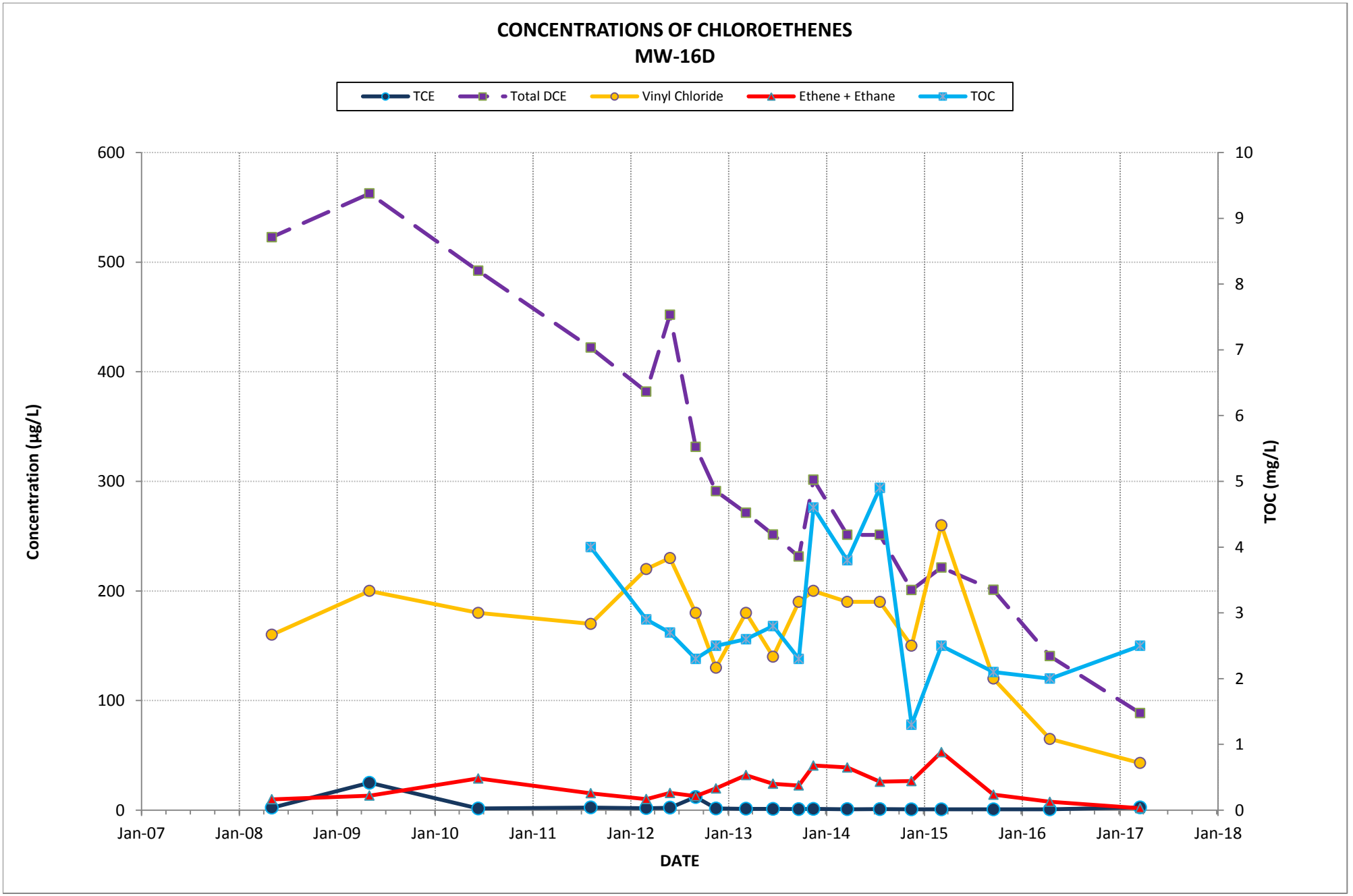

CONCENTRATIONS OF CHLOROETHENES
MW-11D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
6000
5000
4000
3000
2000
1000
0
10
9
8
7
6
5
4
3
2
1
0
Jan-07
Jan-08
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Jan-18
Jan-19

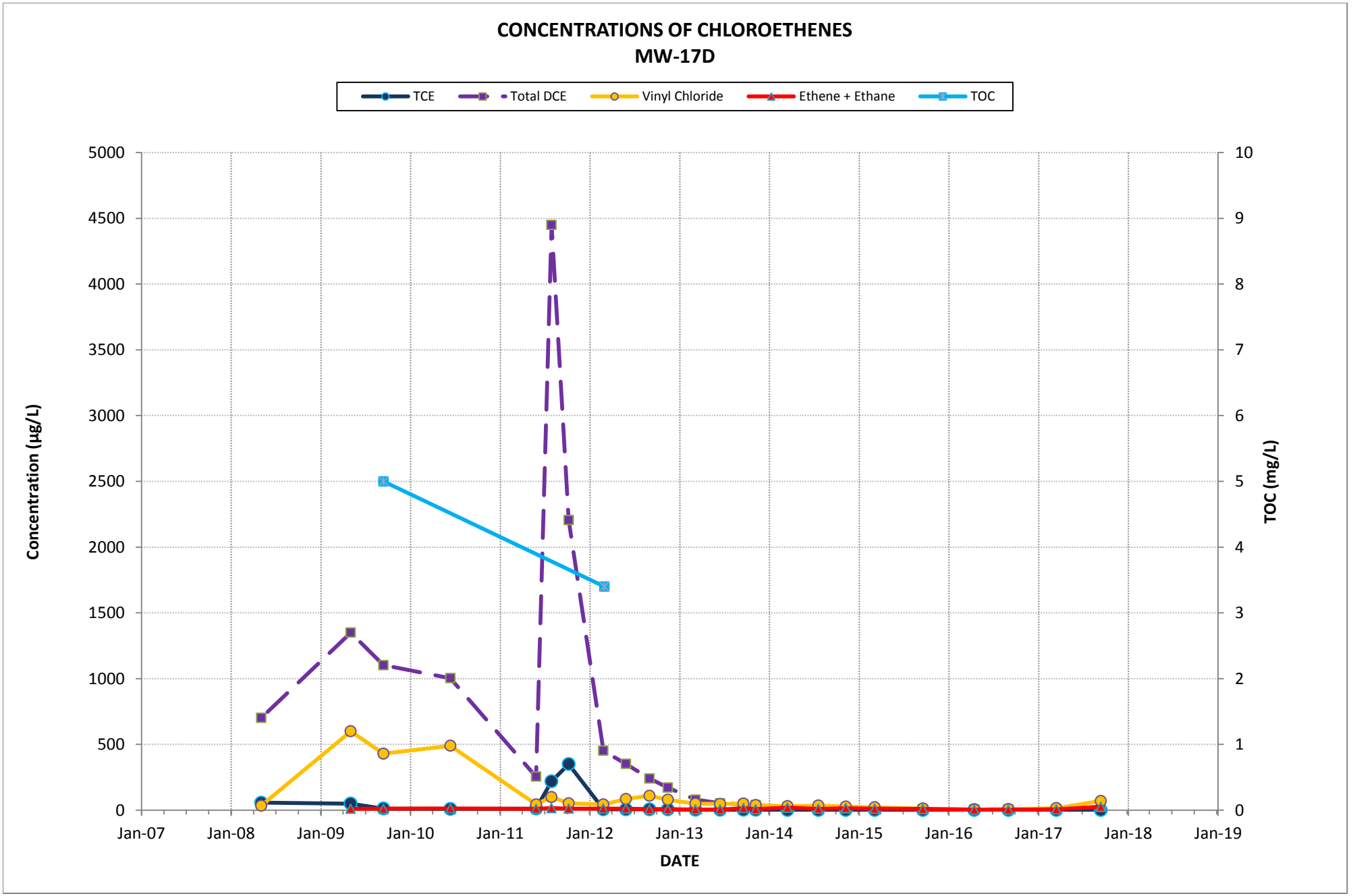

CONCENTRATIONS OF CHLOROETHENES
MW-11S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
DATE

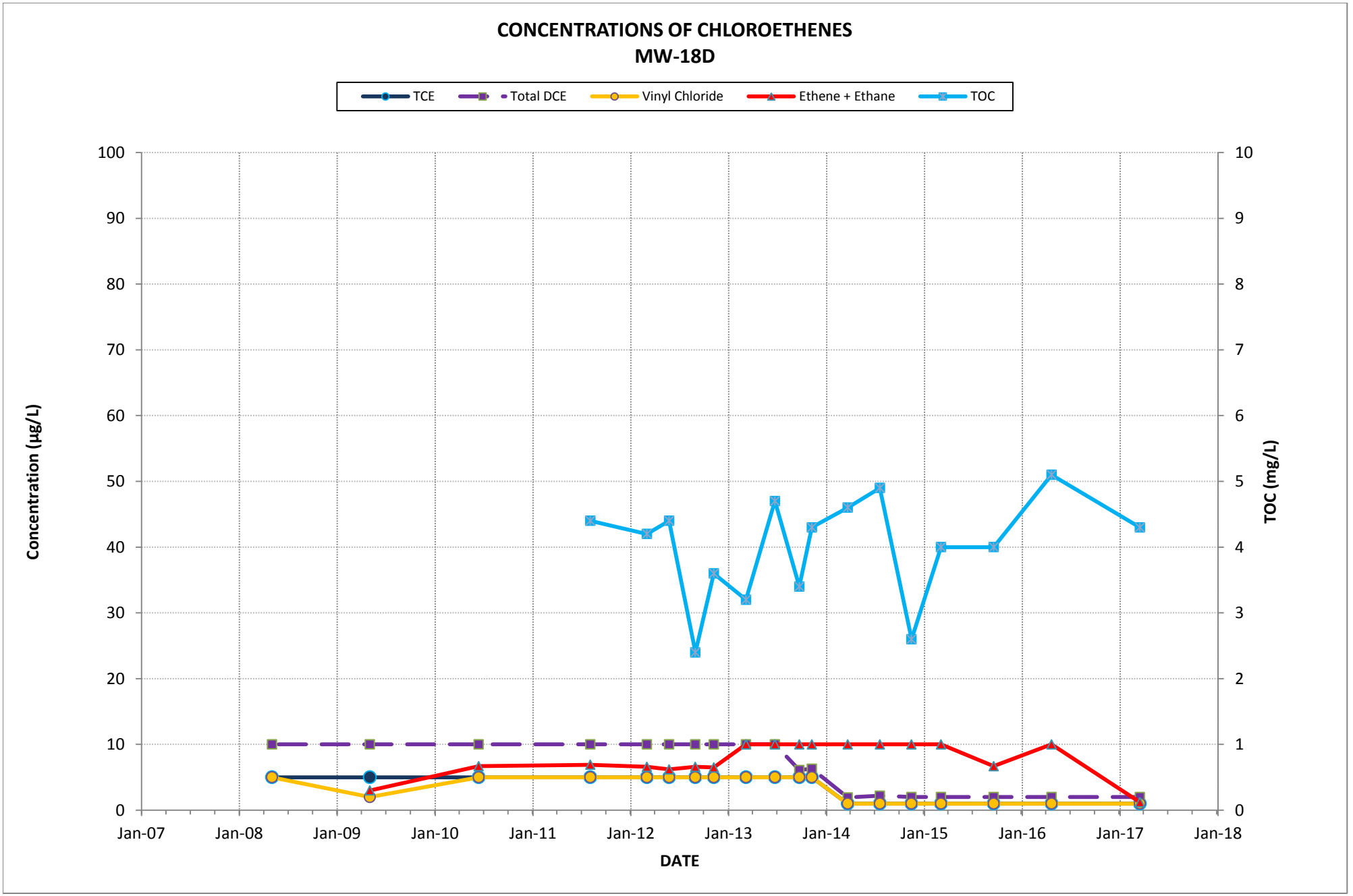

CONCENTRATIONS OF CHLOROETHENES
MW-12S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
10
9
8
7
6
5
4
3
2
1
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19

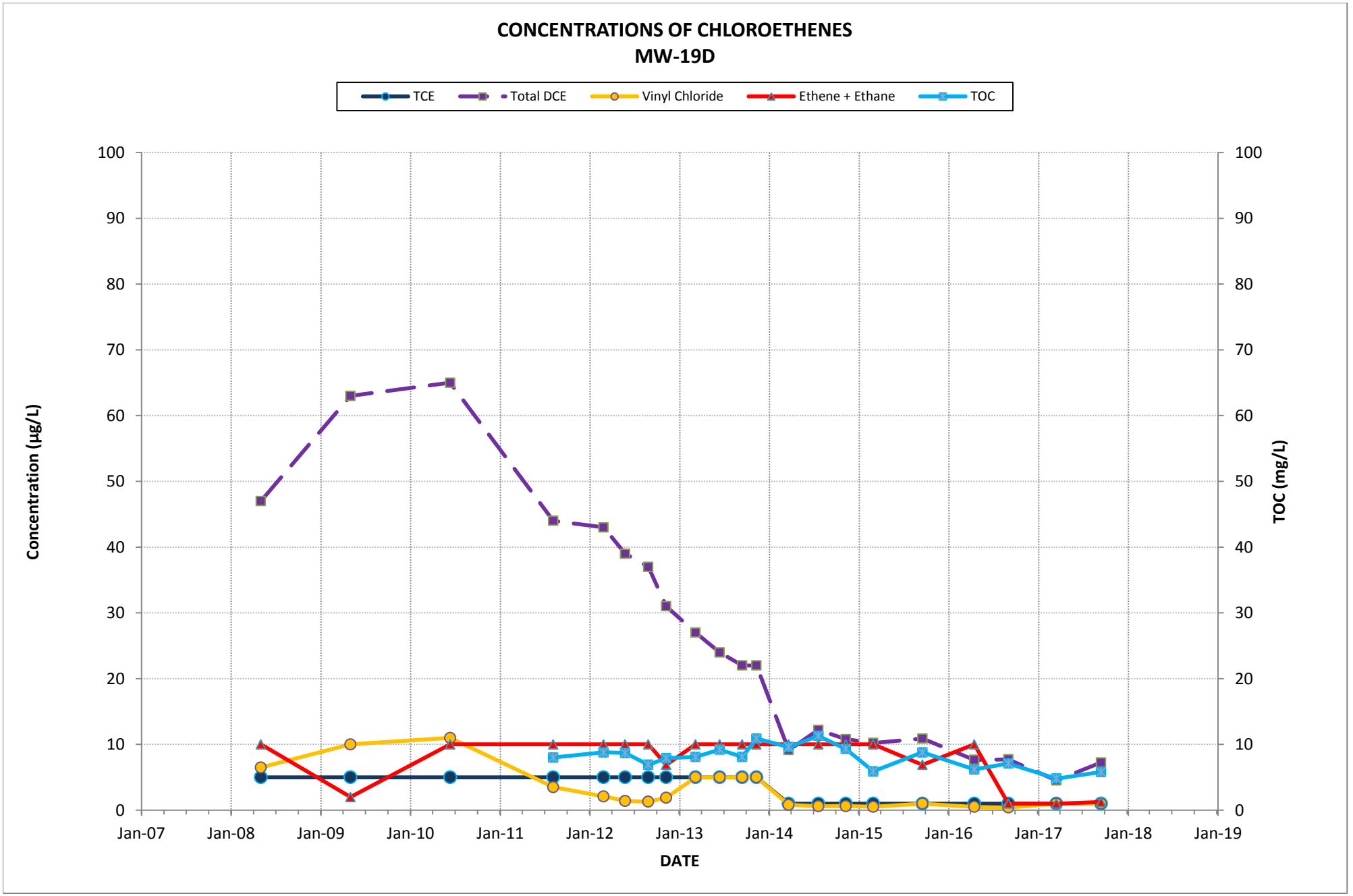

CONCENTRATIONS OF CHLOROETHENES
MW-13D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
2000
1800
1600
1400
1200
1000
800
600
400
200
0
10
9
8
7
6
5
4
3
2
1
0
Jan-07
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Jan-19

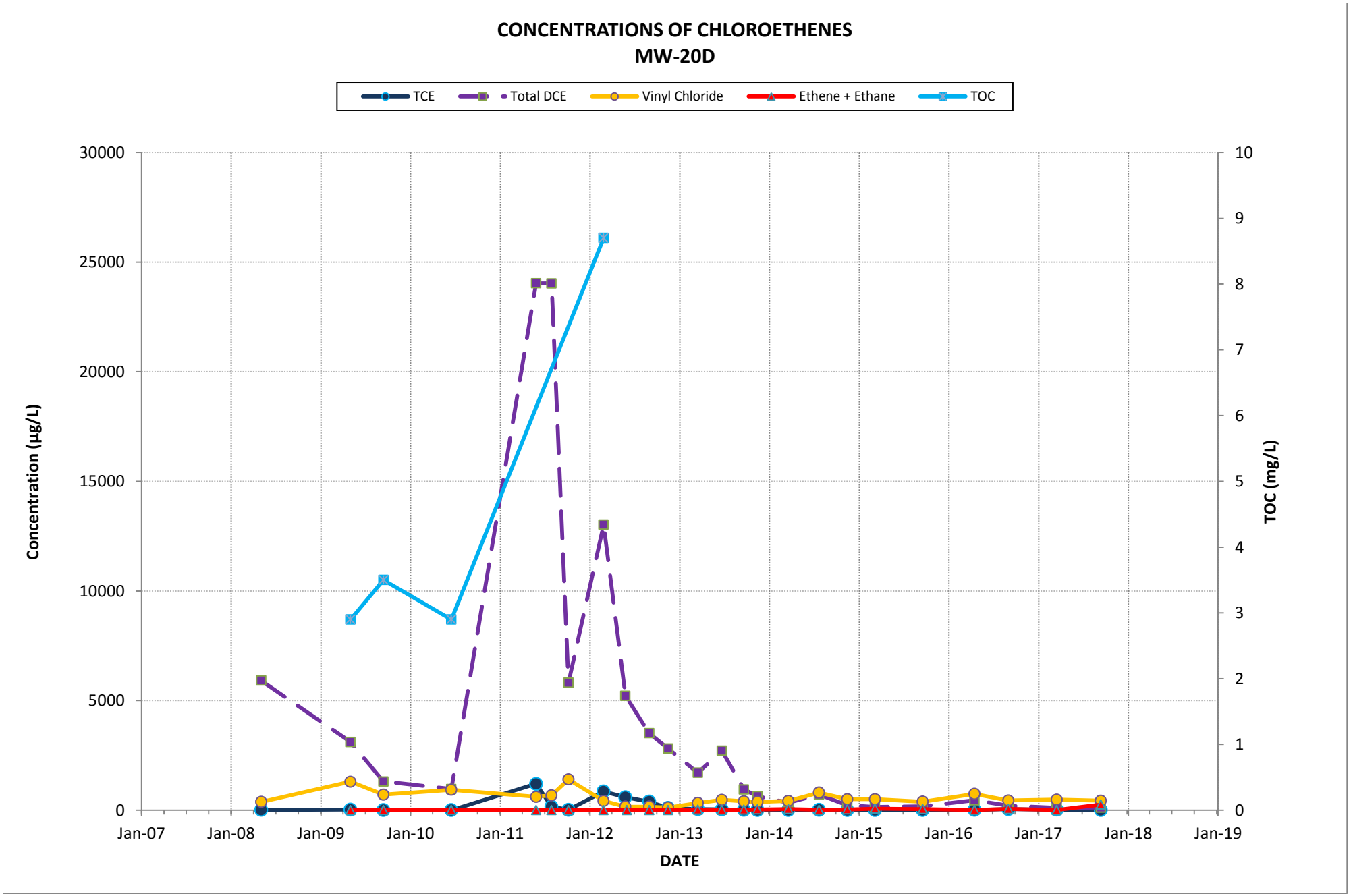

CONCENTRATIONS OF CHLOROETHENES
MW-15D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
2000
1800
1600
1400
1200
1000
800
600
400
200
0
10
9
8
7
6
5
4
3
2
1
0
Jan-07
Jan-08
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Jan-13
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Jan-15
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Jan-18
Jan-19

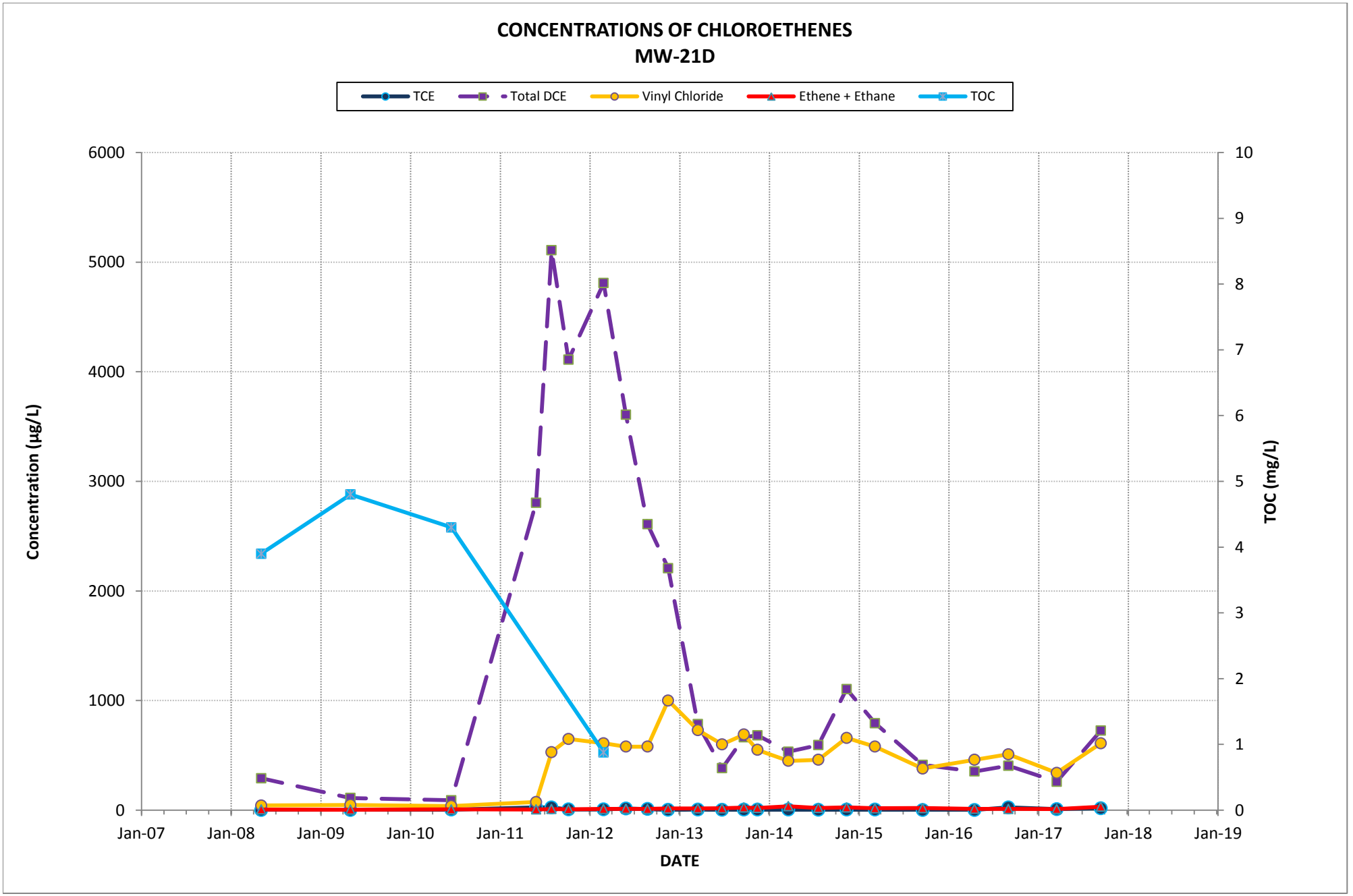

CONCENTRATIONS OF CHLOROETHENES
MW-16D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
600
500
400
300
200
100
0
10
9
8
7
6
5
4
3
2
1
0
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18

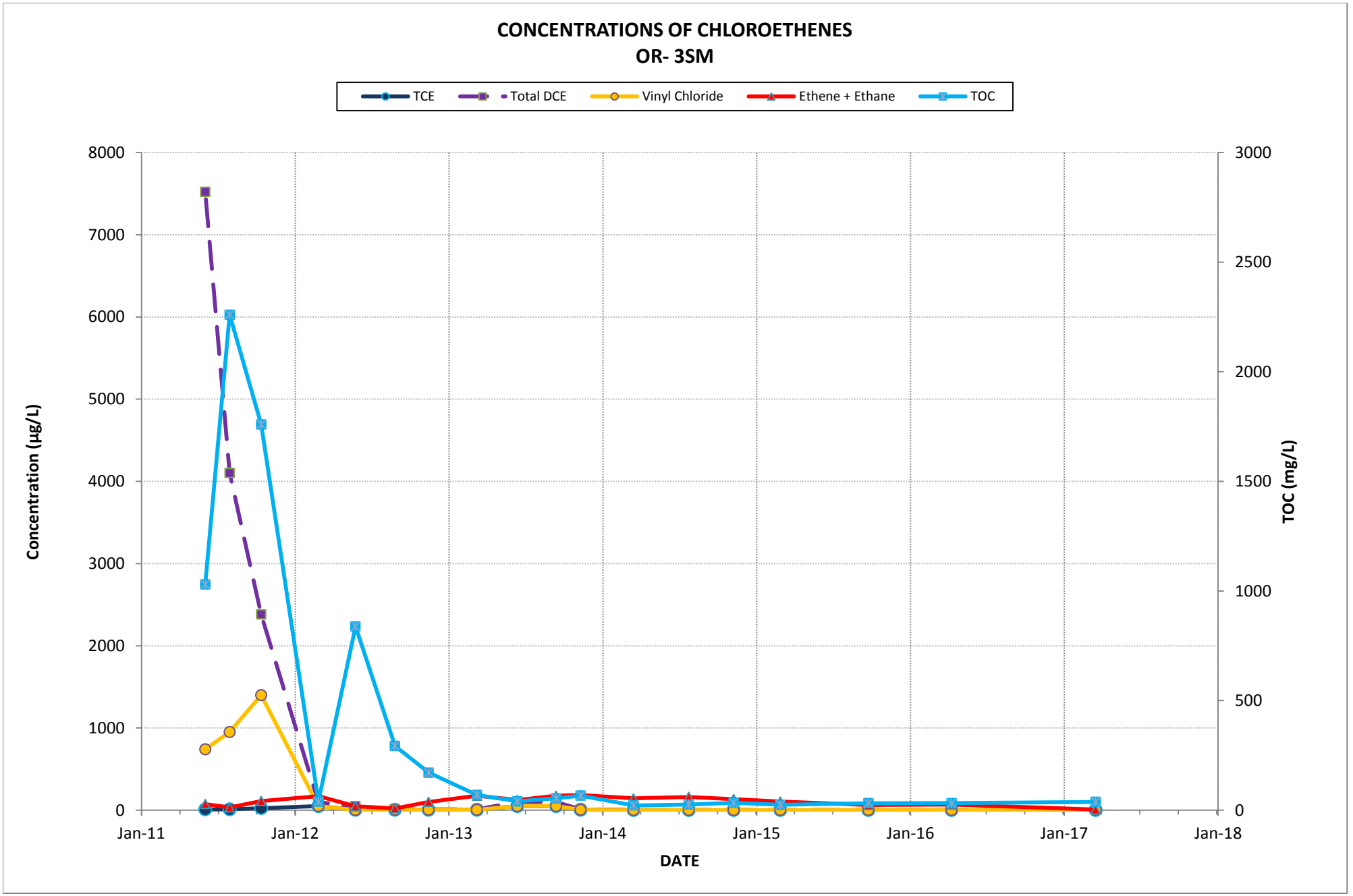

CONCENTRATIONS OF CHLOROETHENES
MW-17D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
3
2
1
0
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19

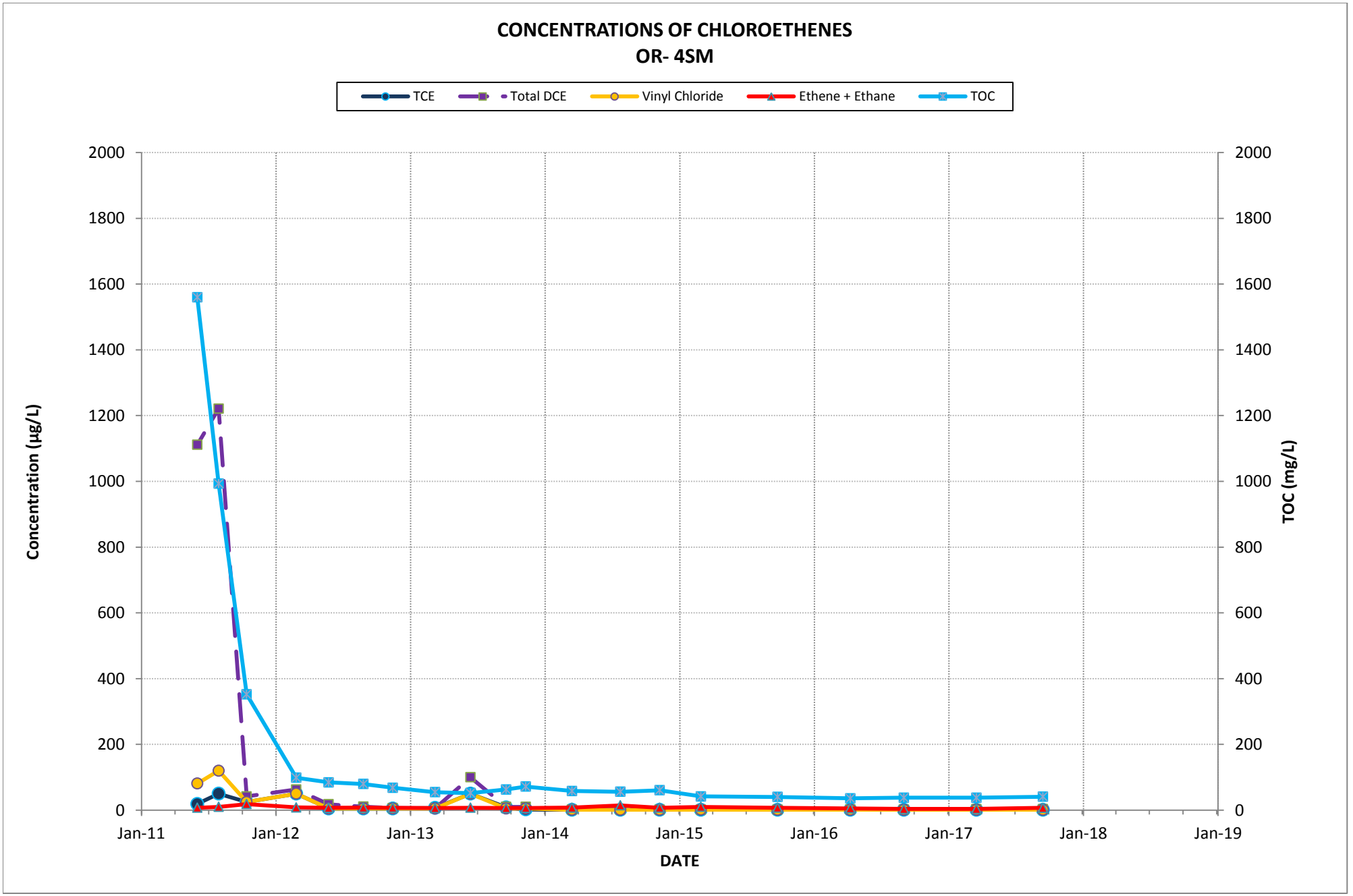

CONCENTRATIONS OF CHLOROETHENES
MW-18D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
100
90
80
70
60
50
40
30
20
10
0
10
9
8
7
6
5
4
3
2
1
0
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18

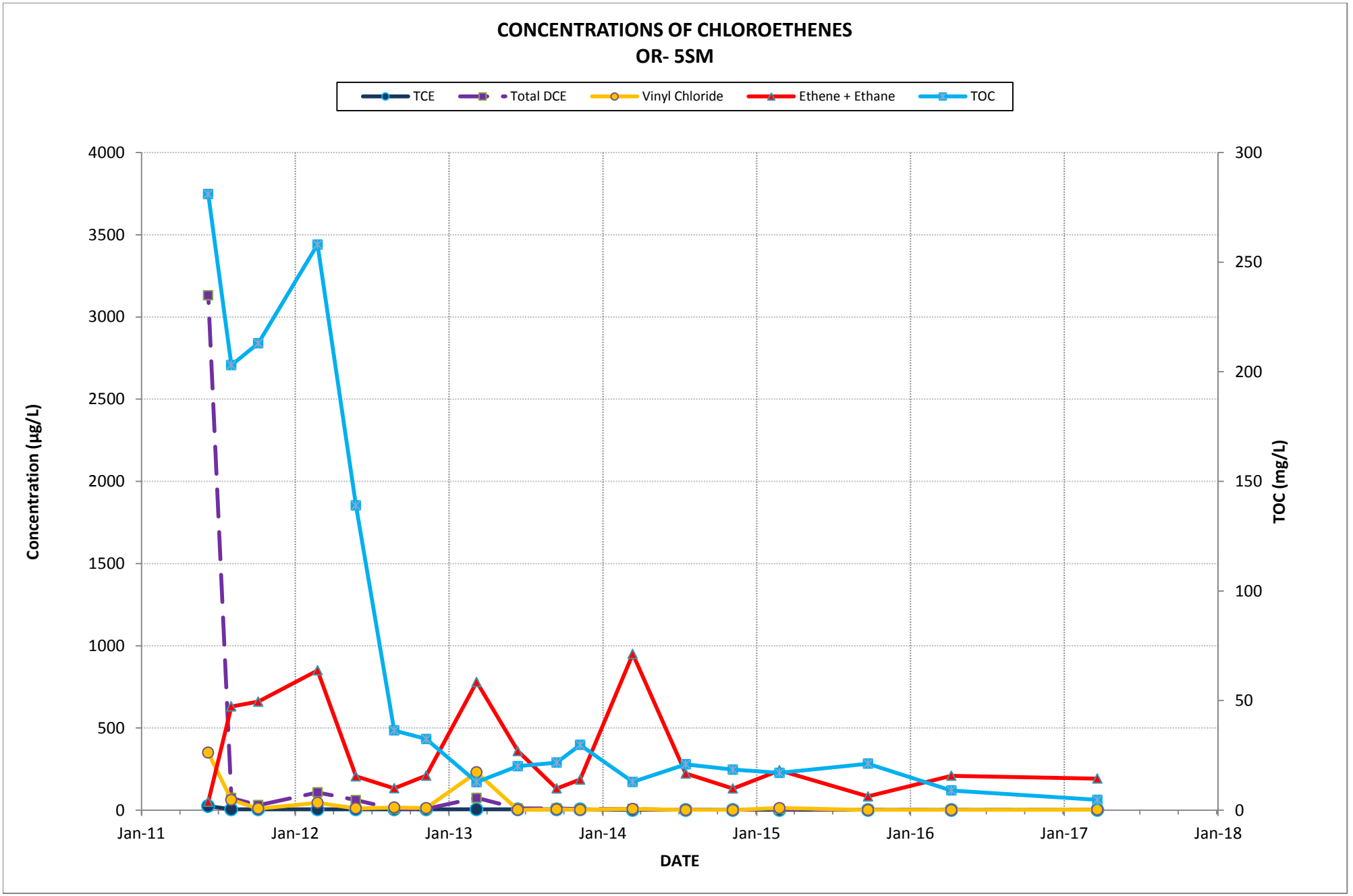

CONCENTRATIONS OF CHLOROETHENES
MW-19D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
0
10
20
30
40
50
60
70
80
90
100
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19

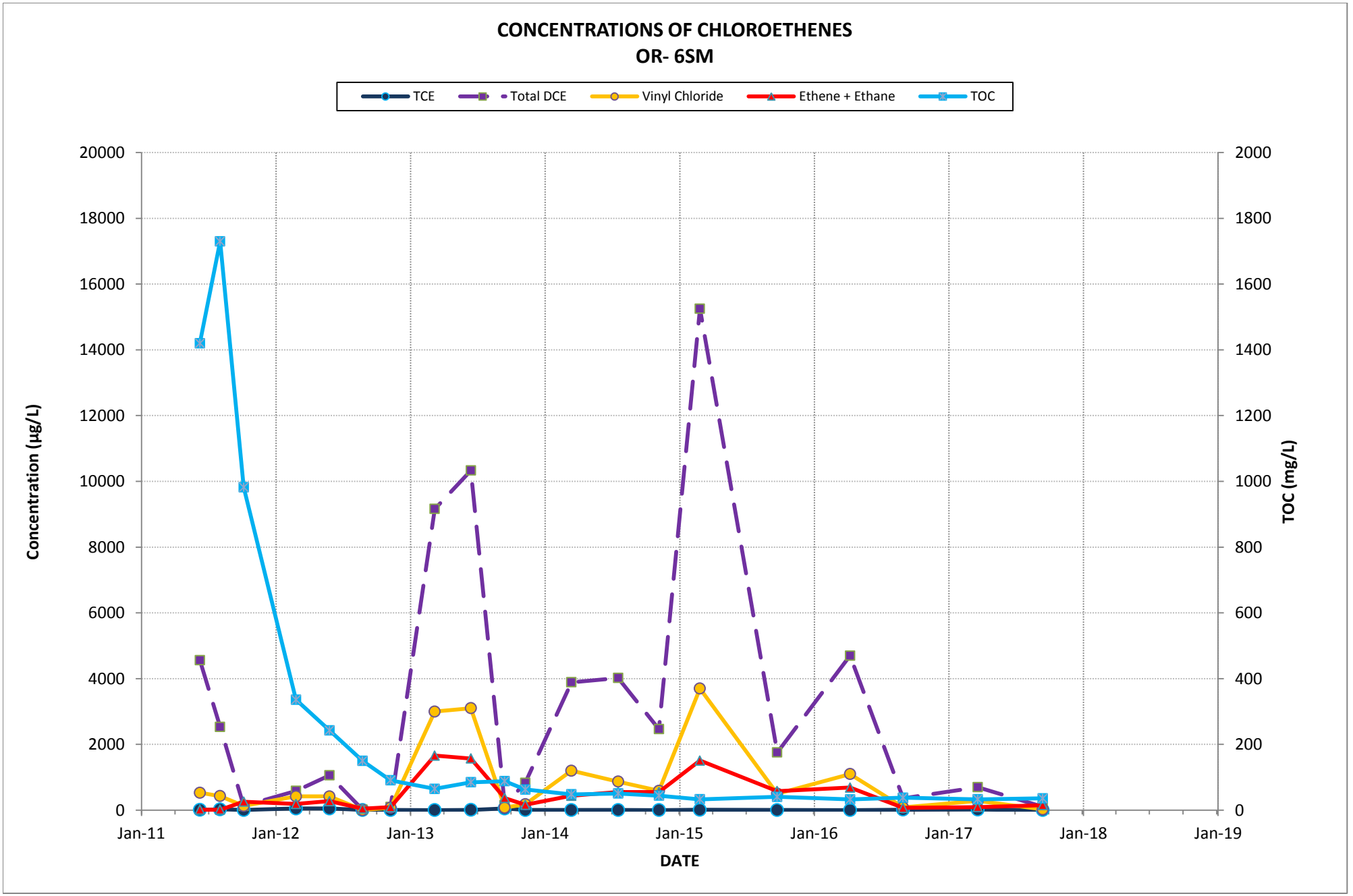

CONCENTRATIONS OF CHLOROETHENES
MW-20D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
30000
25000
20000
15000
10000
5000
0
10
9
8
7
6
5
4
3
2
1
0
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
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Jan-18
Jan-19

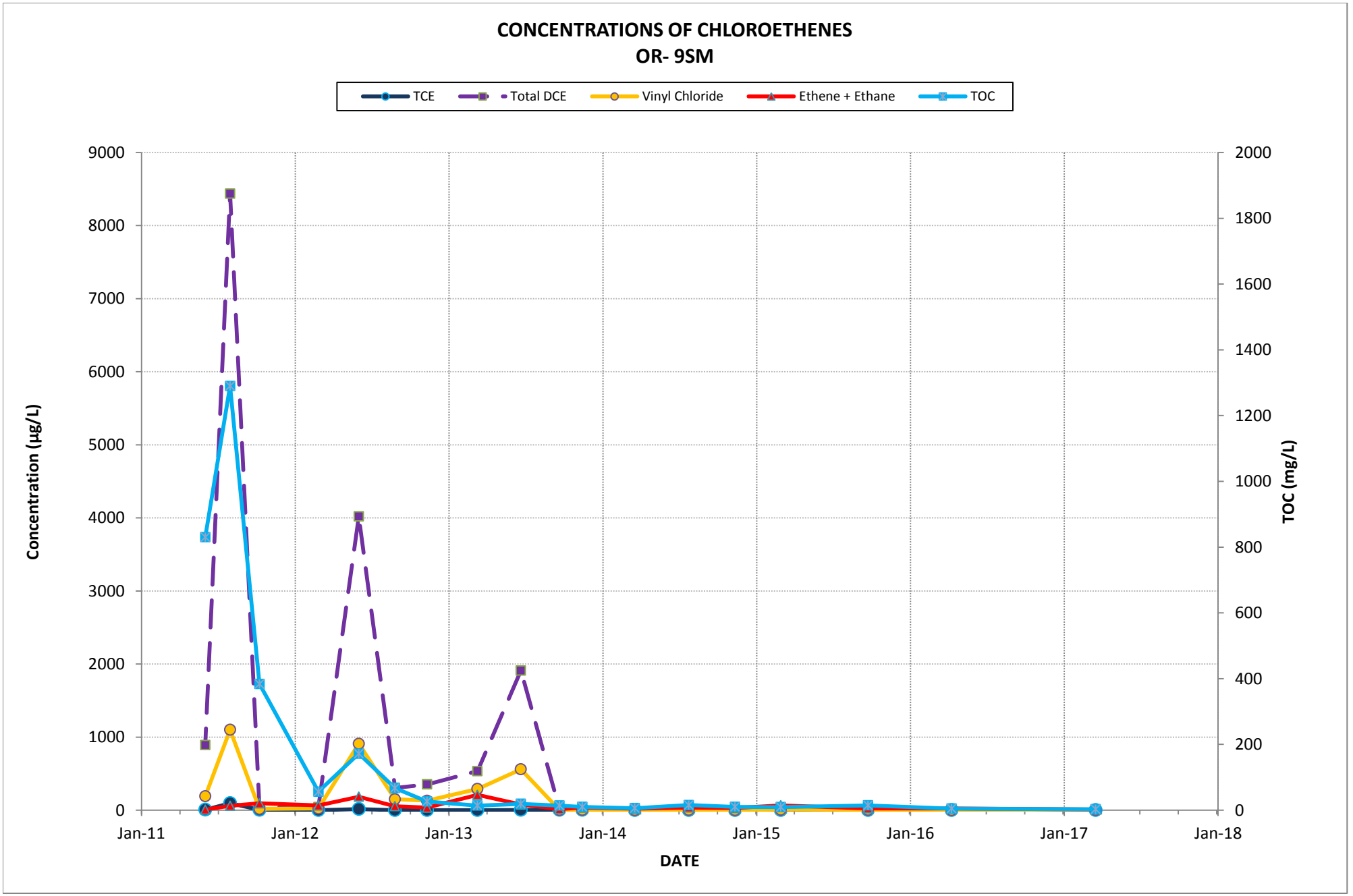

CONCENTRATIONS OF CHLOROETHENES
MW-21D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
6000
5000
4000
3000
2000
1000
0
10
9
8
7
6
5
4
3
2
1
0
Jan-07
Jan-08
Jan-09
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Jan-11
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Jan-15
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Jan-18
Jan-19

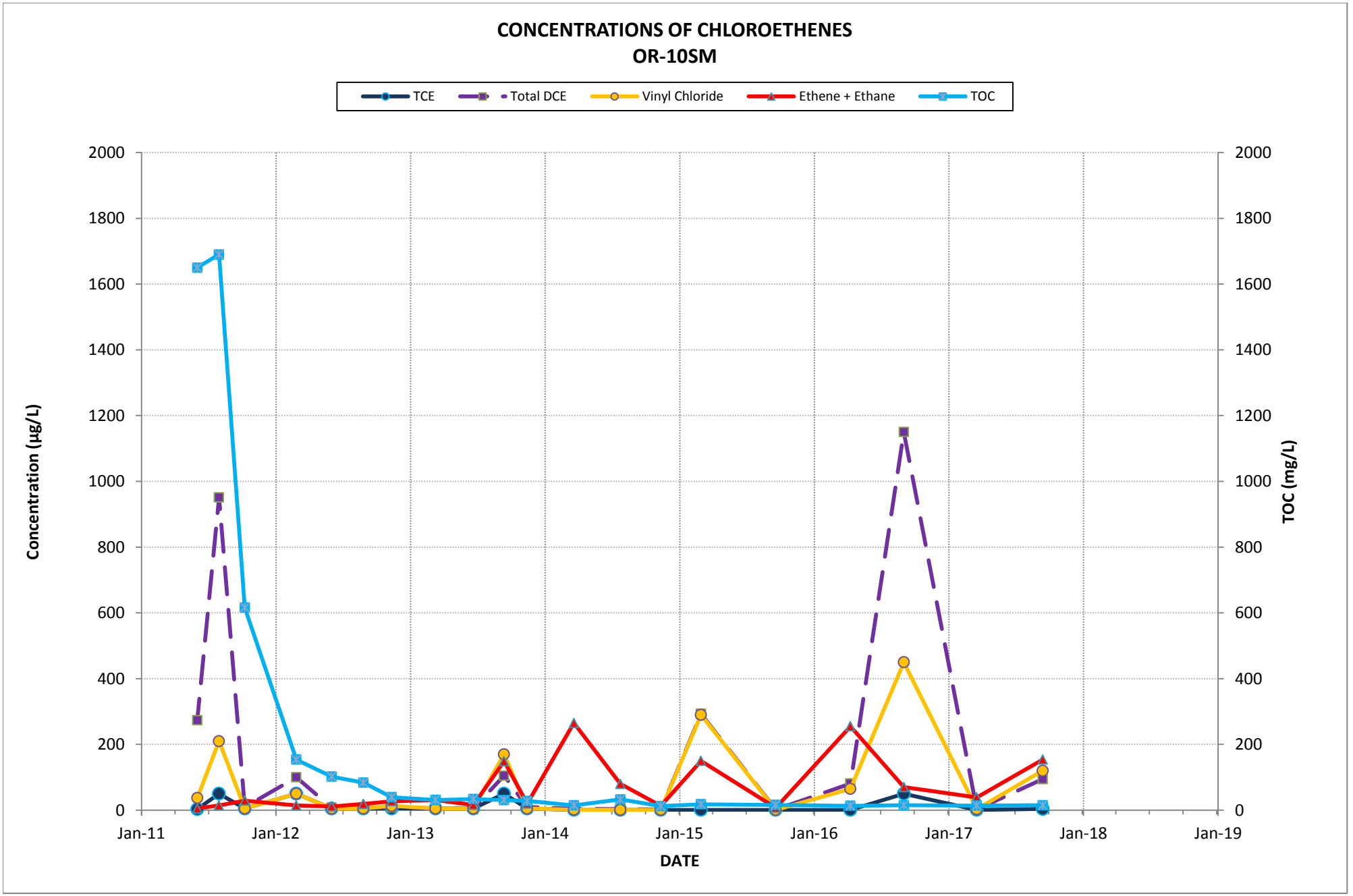

CONCENTRATIONS OF CHLOROETHENES
OR- 3SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
8000
7000
6000
5000
4000
3000
2000
1000
0
3000
2500
2000
1500
1000
500
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
DATE

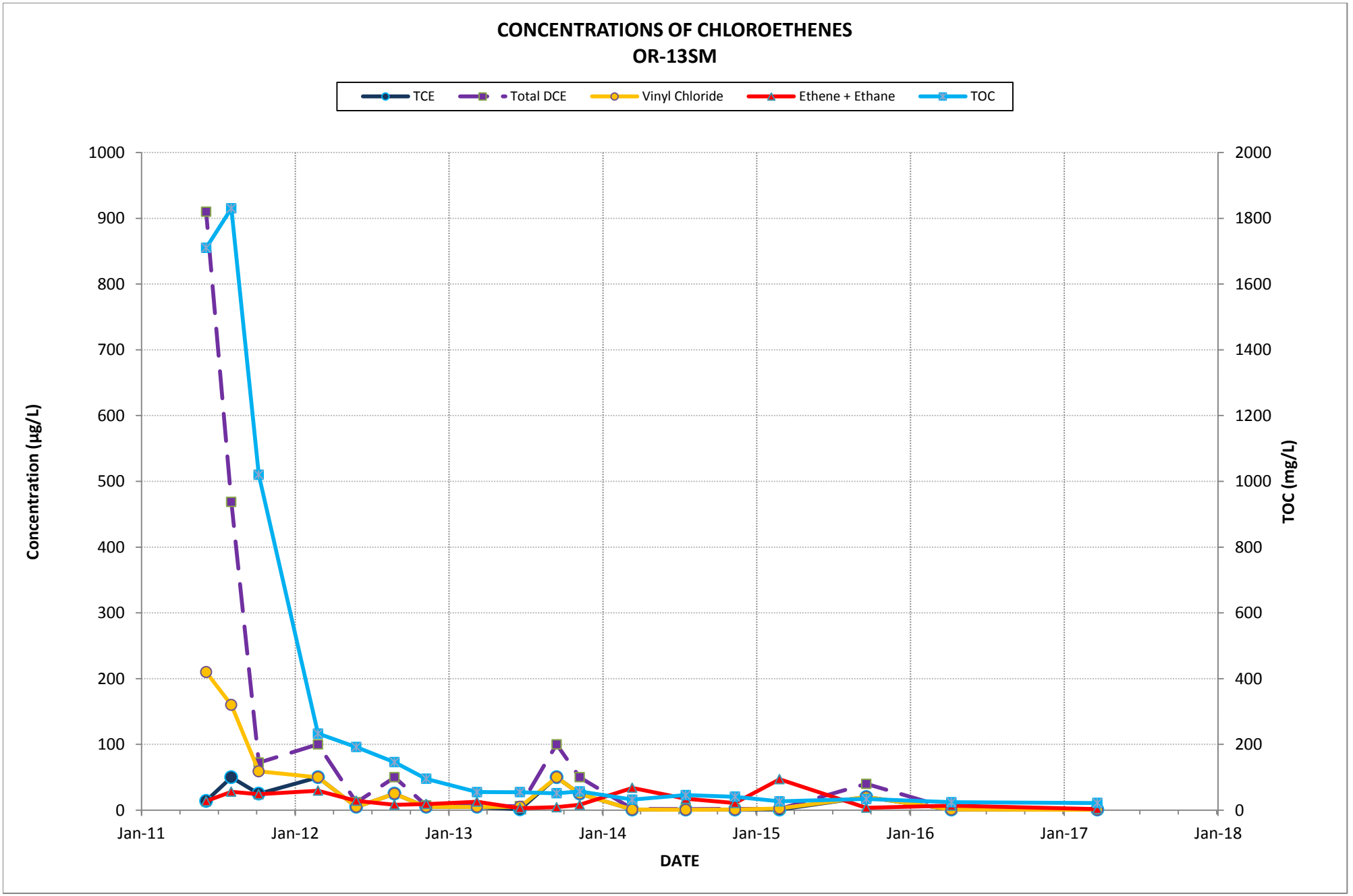

CONCENTRATIONS OF CHLOROETHENES
OR- 4SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
DATE

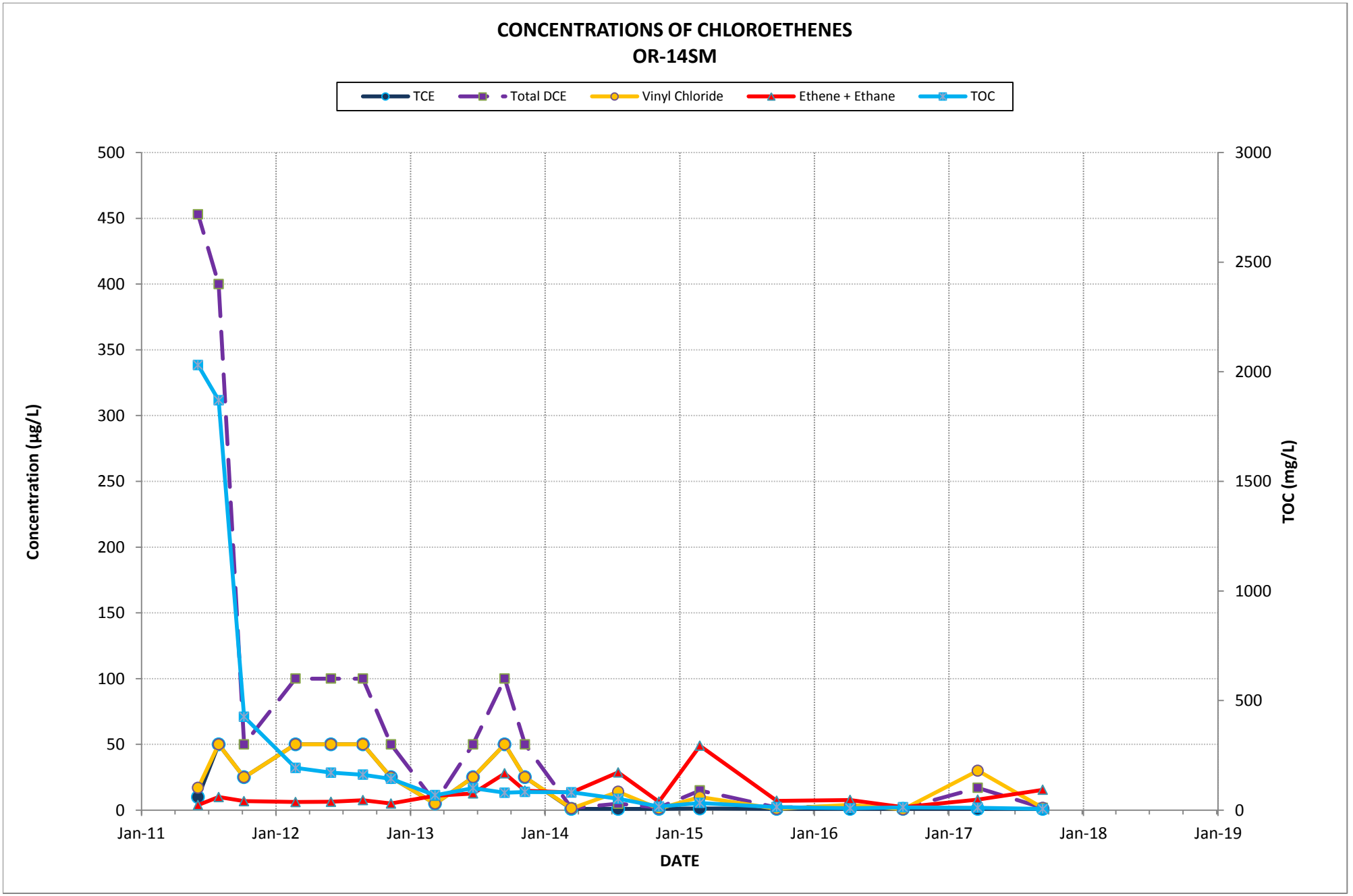

CONCENTRATIONS OF CHLOROETHENES
OR- 5SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
4000
3500
3000
2500
2000
1500
1000
500
0
300
250
200
150
100
50
0
Jan-11
Jan-12
Jan-13
Jan-14
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Jan-18

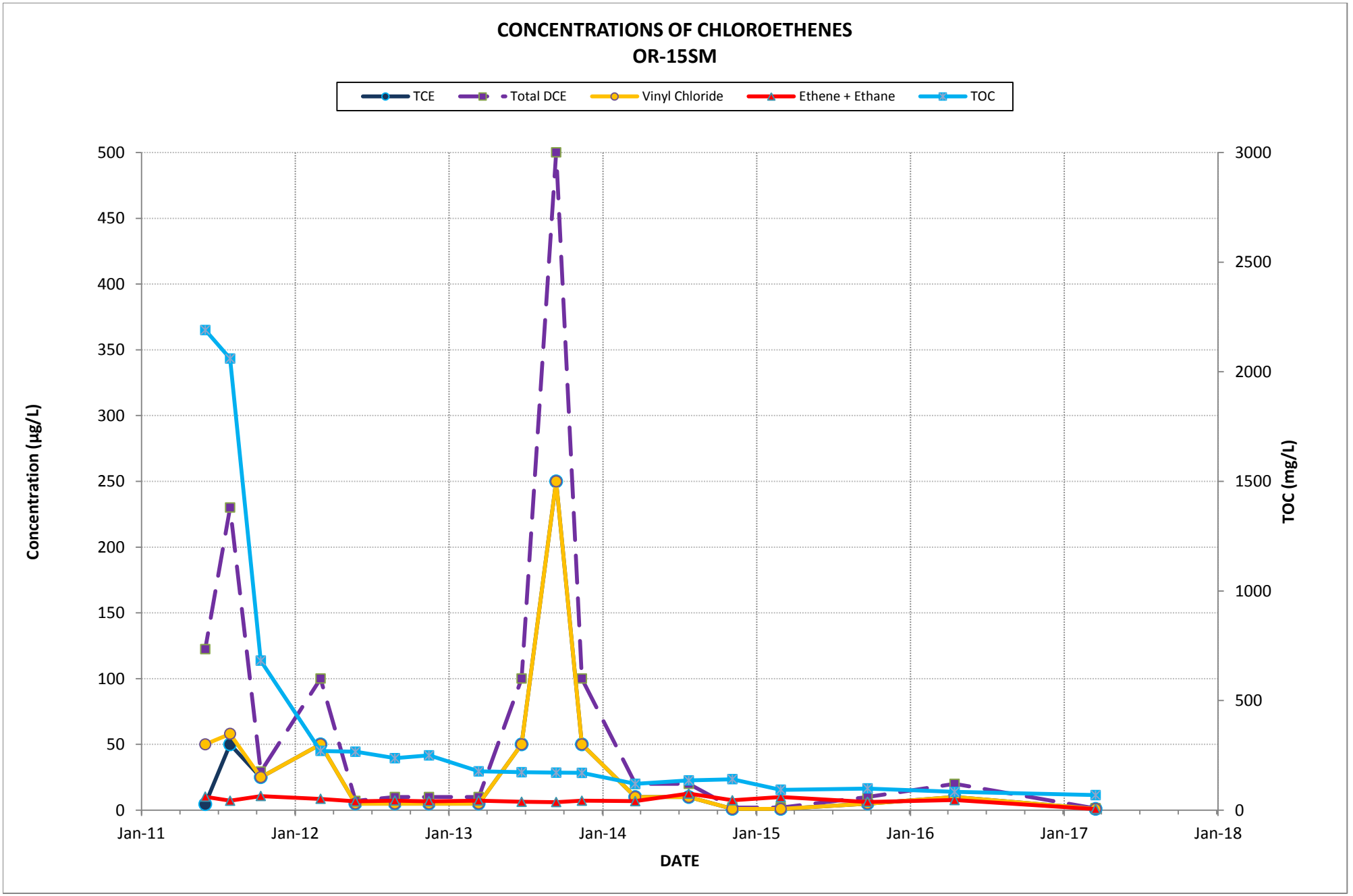

CONCENTRATIONS OF CHLOROETHENES
OR- 6SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2000
1800
1600
1400
1200
1000
800
600
400
200
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Jan-12
Jan-13
Jan-14
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Jan-16
Jan-17
Jan-18
Jan-19
DATE

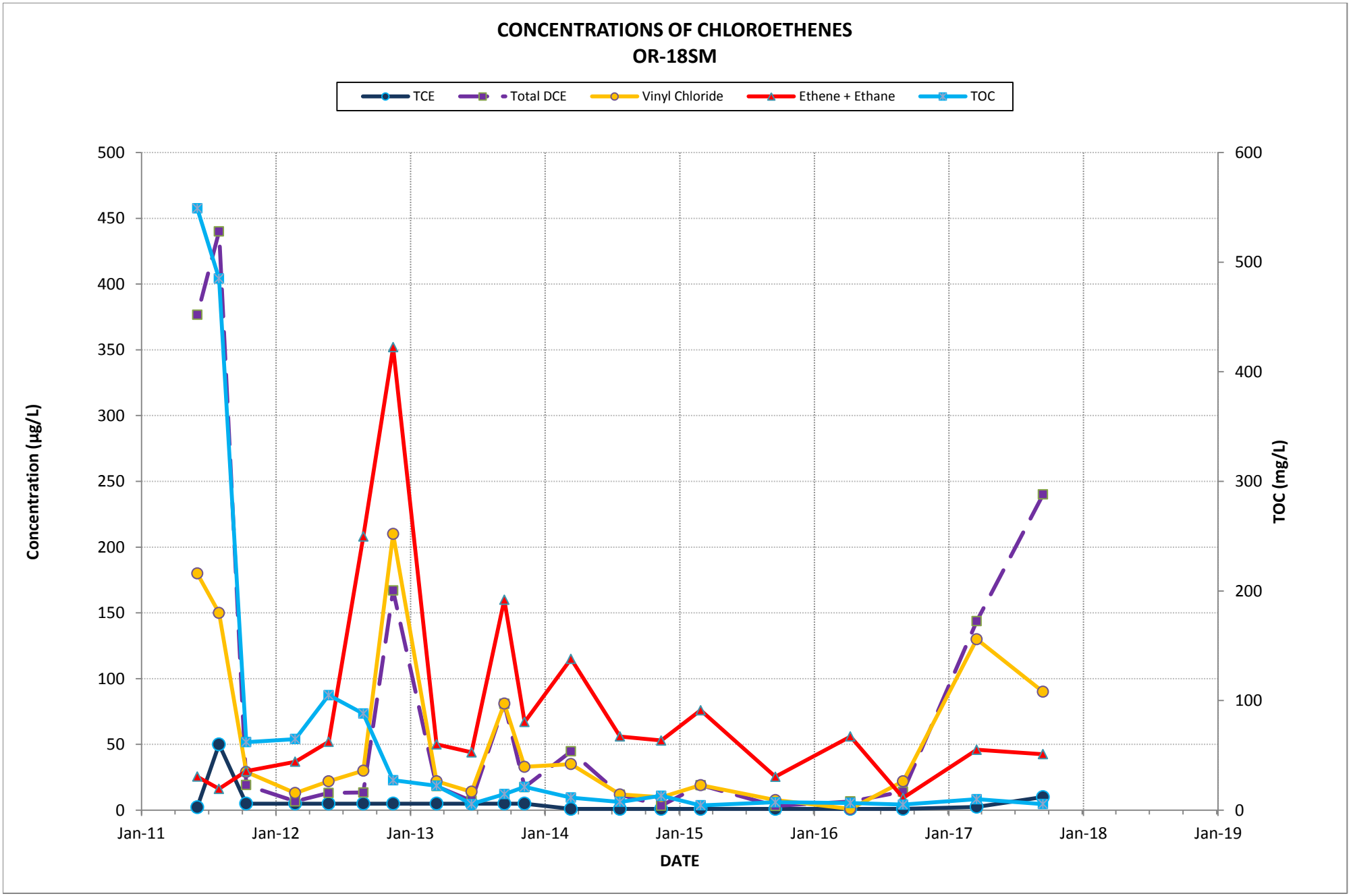

CONCENTRATIONS OF CHLOROETHENES
OR- 9SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2000
1800
1600
1400
1200
1000
800
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400
200
0
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Jan-16
Jan-17
Jan-18

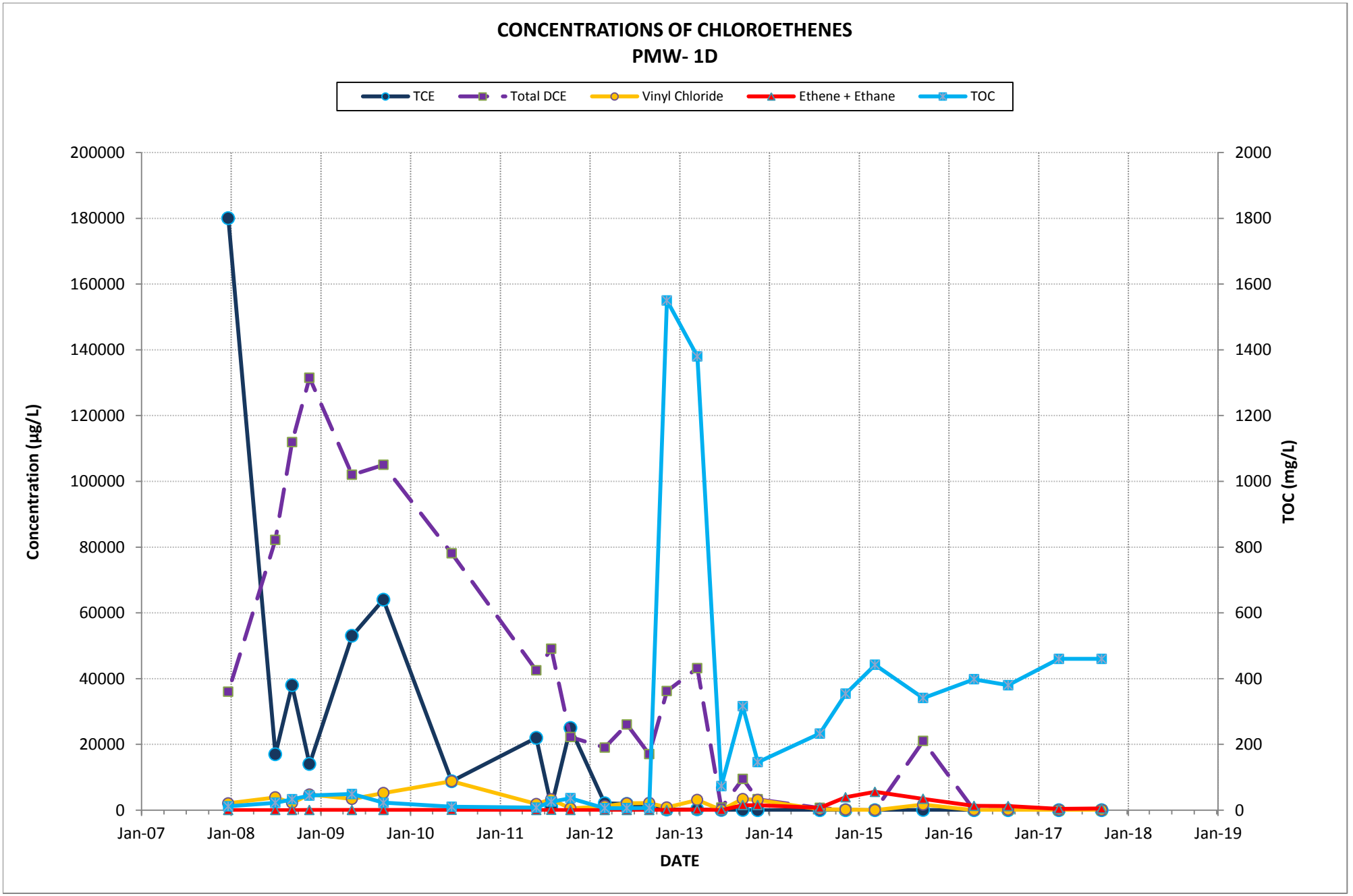

CONCENTRATIONS OF CHLOROETHENES
OR-10SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
DATE

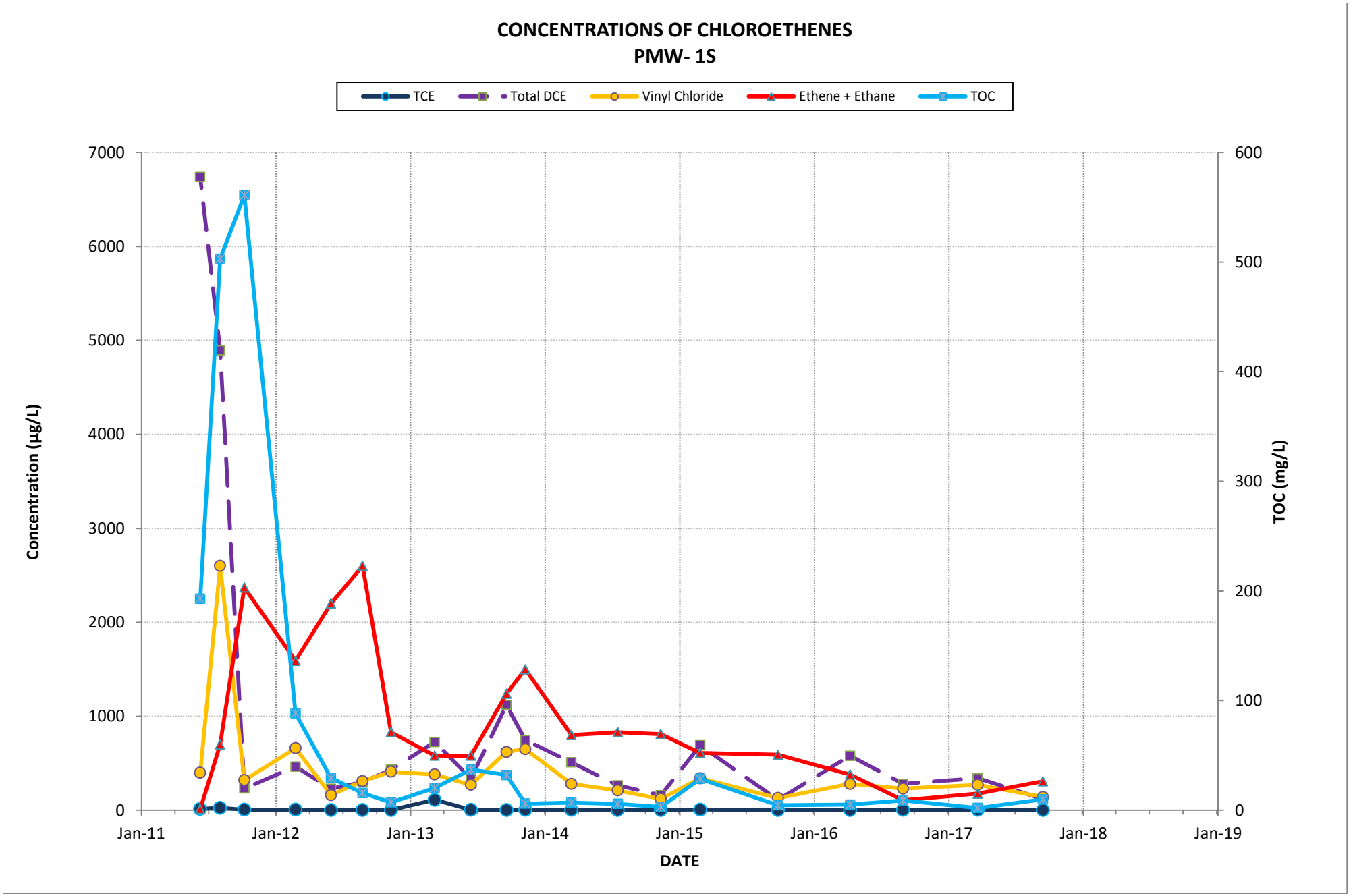

CONCENTRATIONS OF CHLOROETHENES
OR-13SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
1000
900
800
700
600
500
400
300
200
100
0
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
DATE

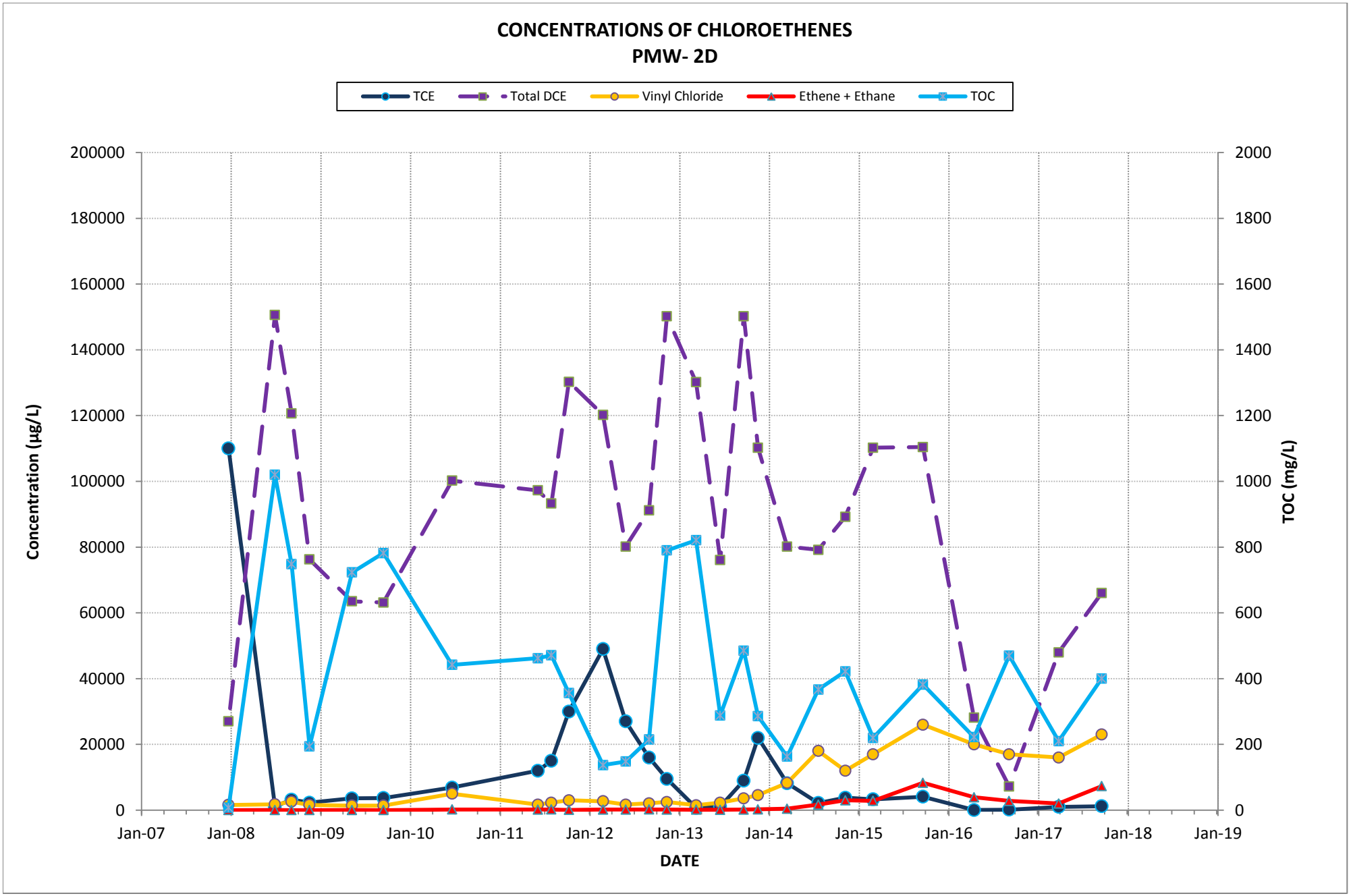

CONCENTRATIONS OF CHLOROETHENES
OR-14SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
500
450
400
350
300
250
200
150
100
50
0
3000
2500
2000
1500
1000
500
0
Jan-11
Jan-12
Jan-13
Jan-14
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Jan-16
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Jan-18
Jan-19
DATE

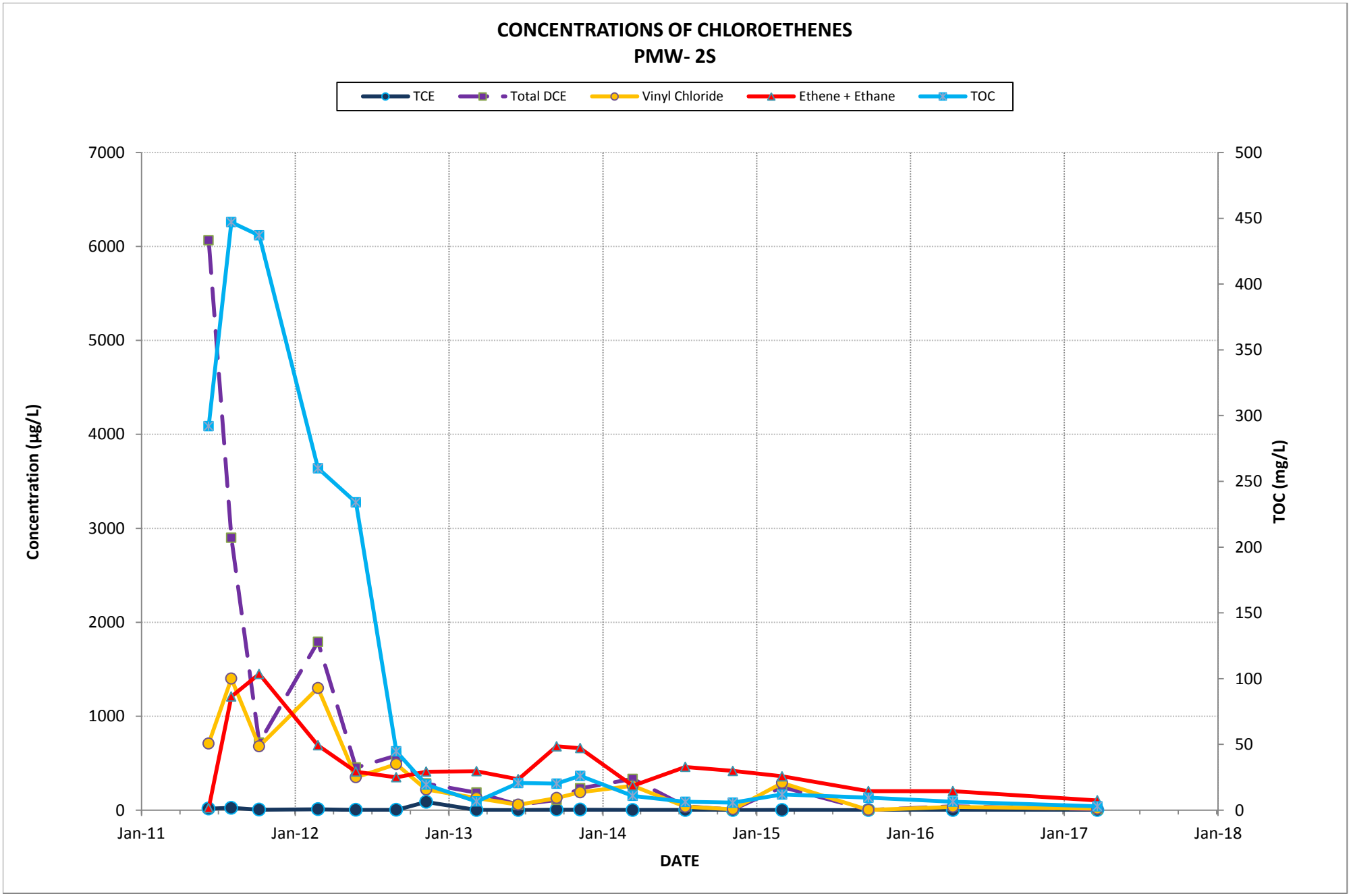

CONCENTRATIONS OF CHLOROETHENES
OR-15SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
0
50
100
150
200
250
300
350
400
450
500
0
500
1000
1500
2000
2500
3000
Jan-11
Jan-12
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Jan-16
Jan-17
Jan-18

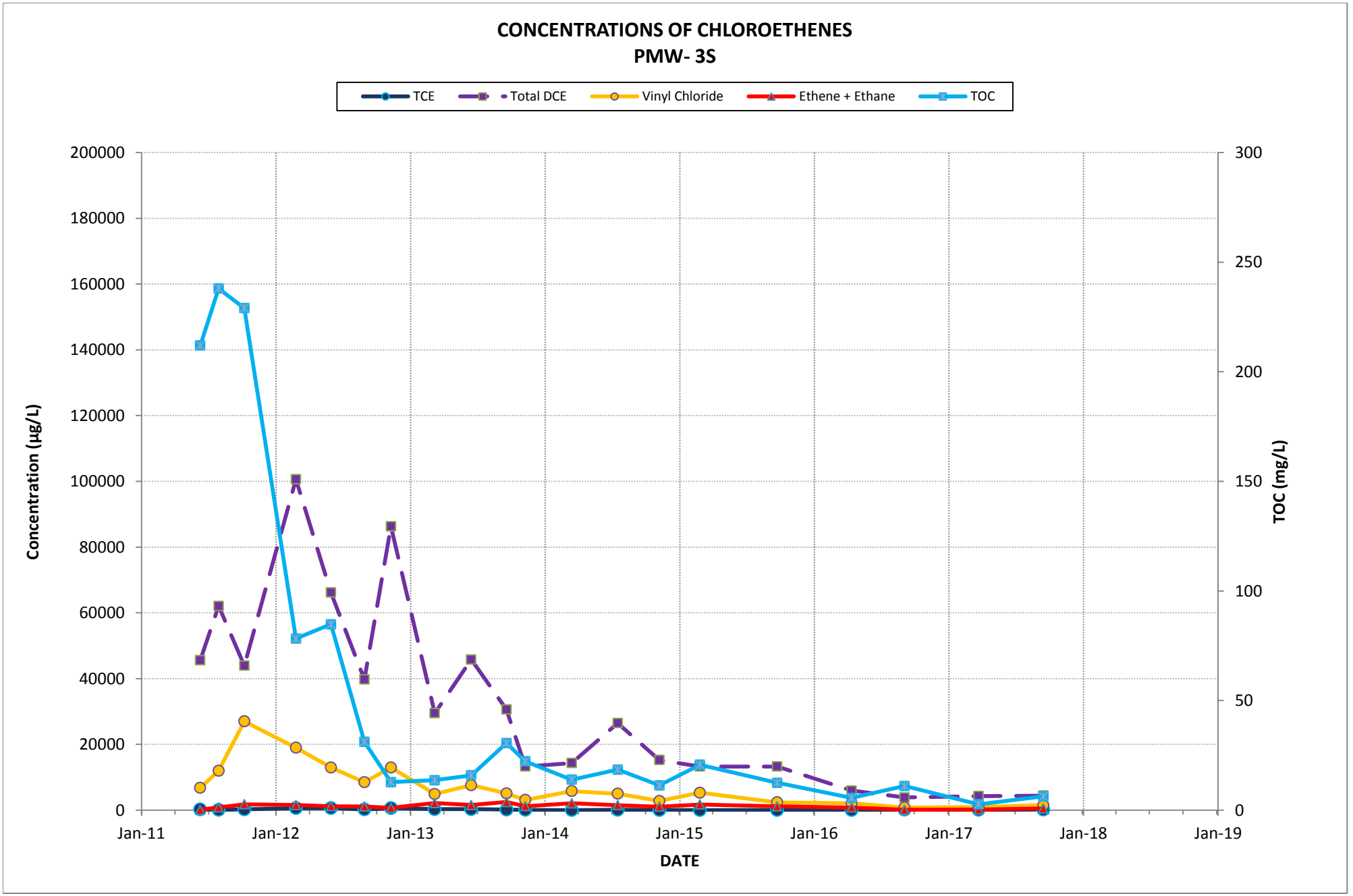

CONCENTRATIONS OF CHLOROETHENES
OR-18SM
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
0
50
100
150
200
250
300
350
400
450
500
600
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19

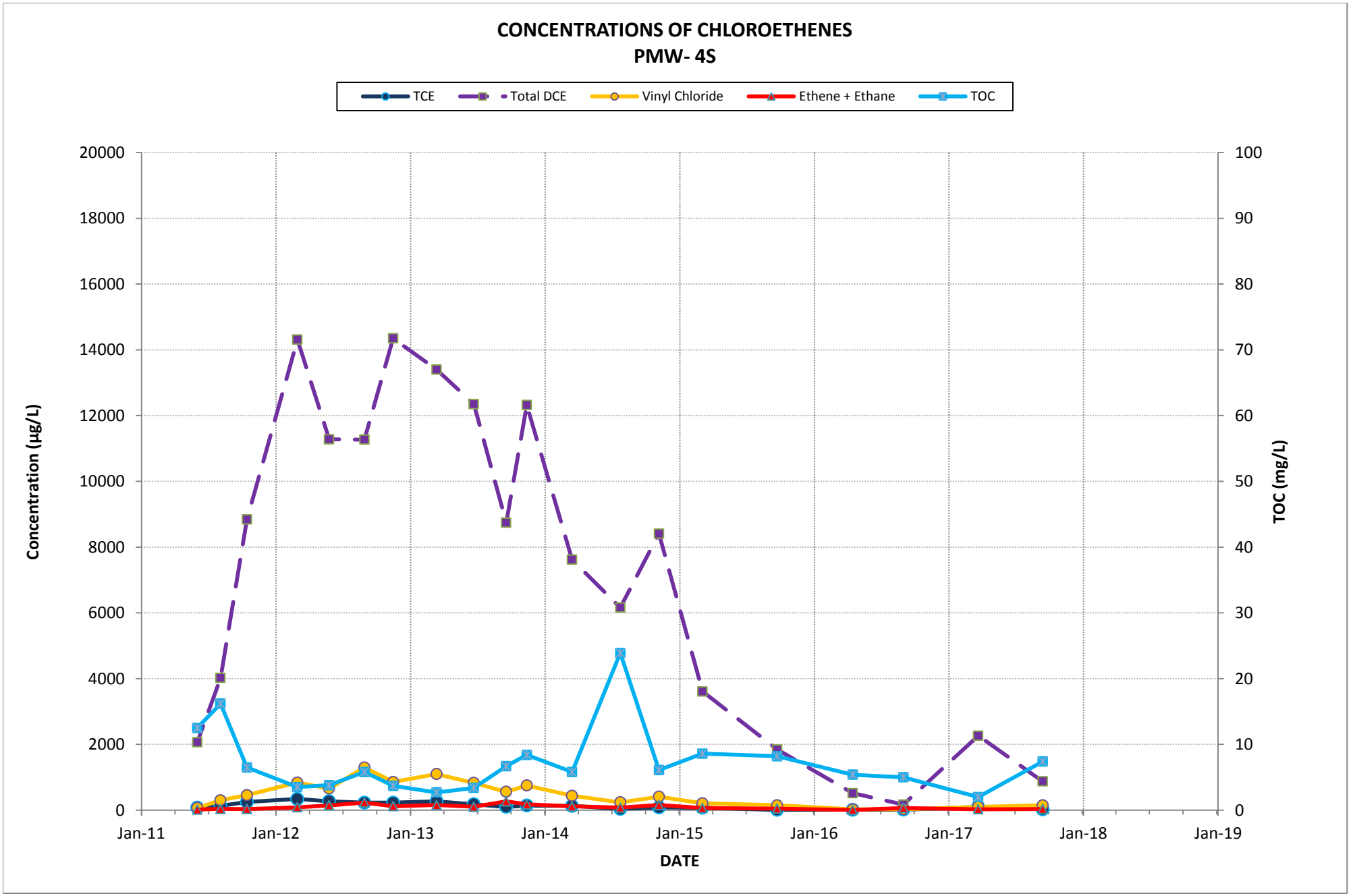

CONCENTRATIONS OF CHLOROETHENES
PMW- 1D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-07
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Jan-19

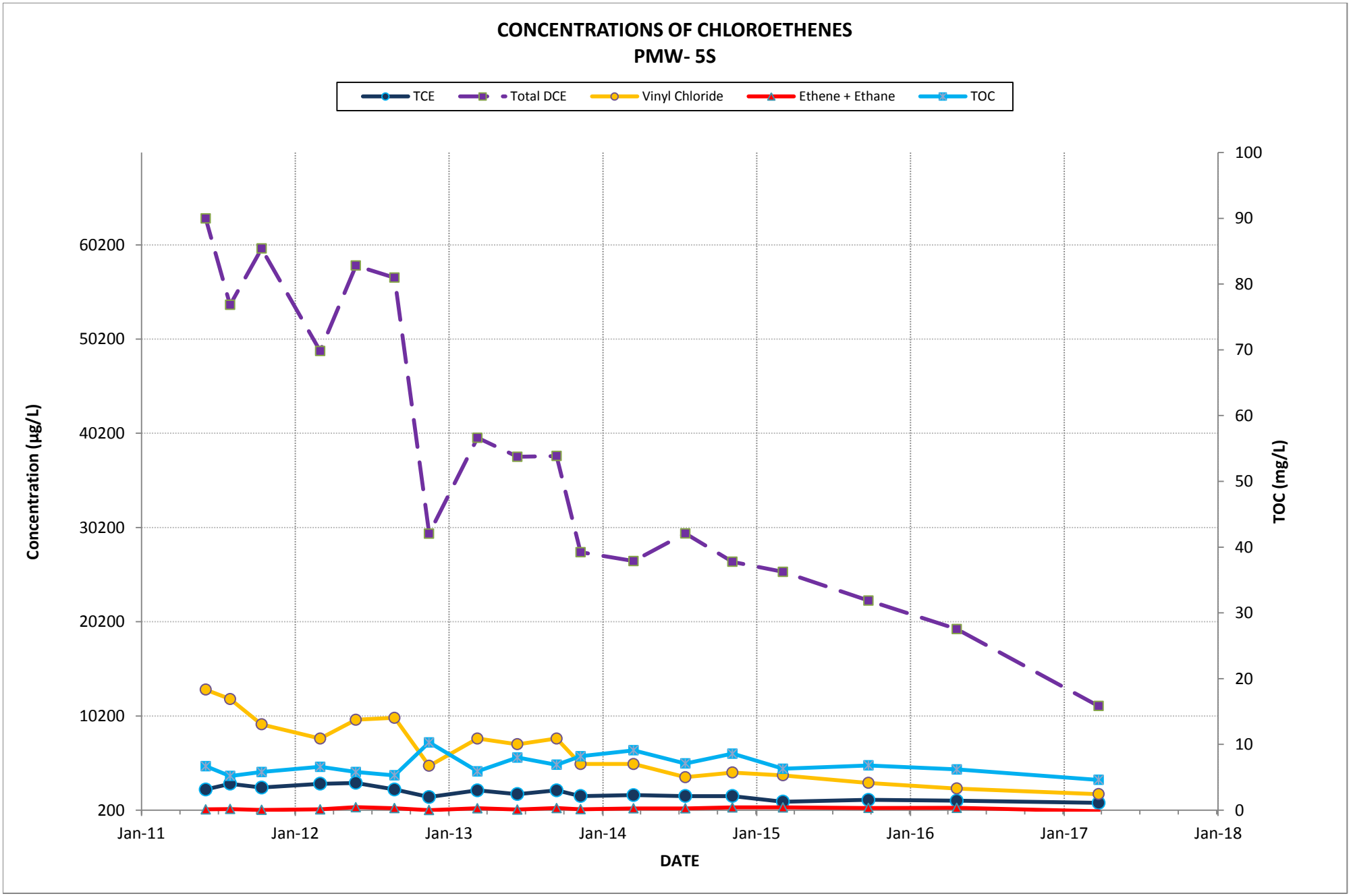

CONCENTRATIONS OF CHLOROETHENES
PMW- 1S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
7000
6000
5000
4000
3000
2000
1000
0
600
500
400
300
200
100
0
Jan-11
Jan-12
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Jan-19

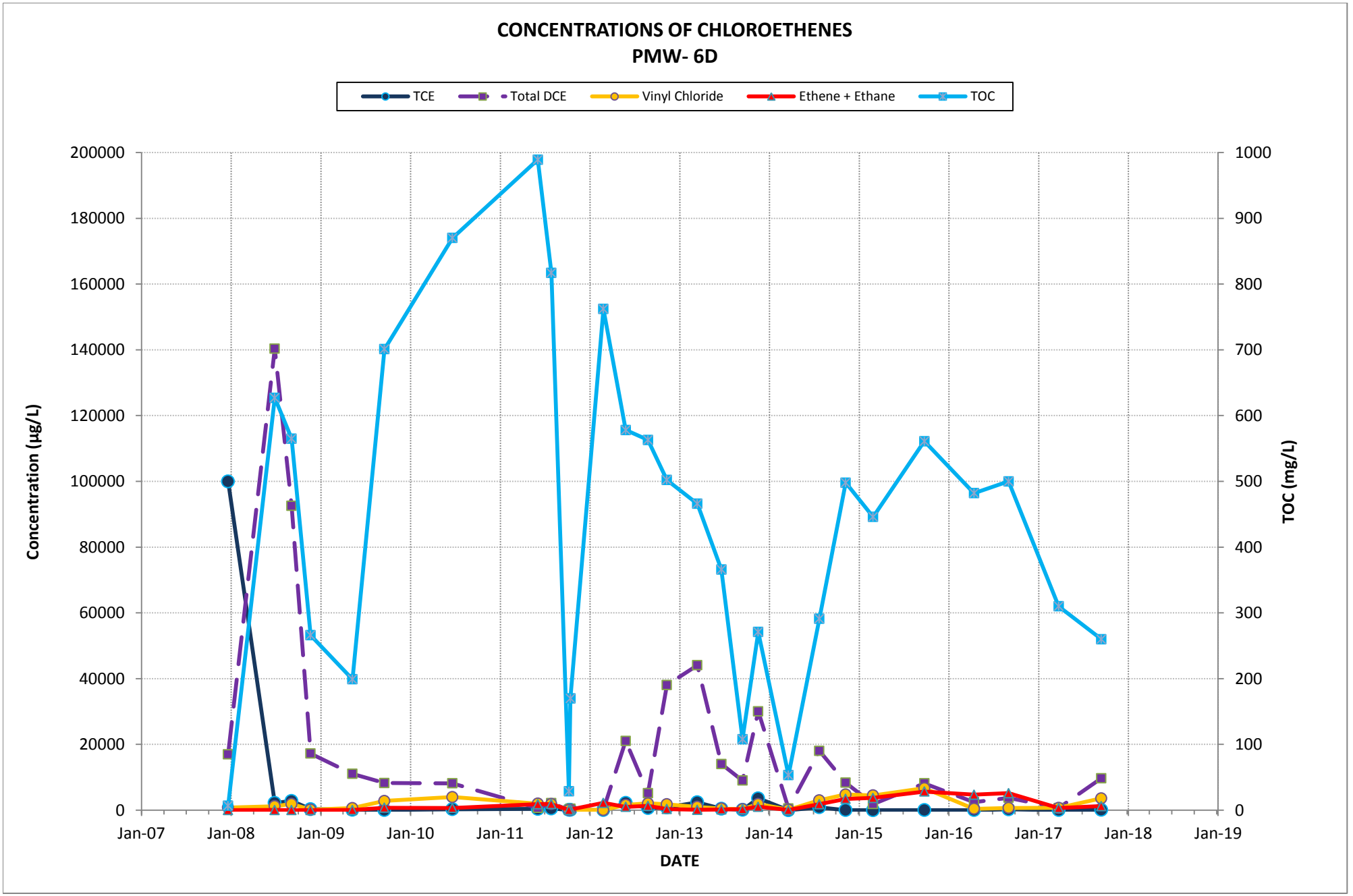

CONCENTRATIONS OF CHLOROETHENES
PMW- 2D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-07
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Jan-18
Jan-19
DATE

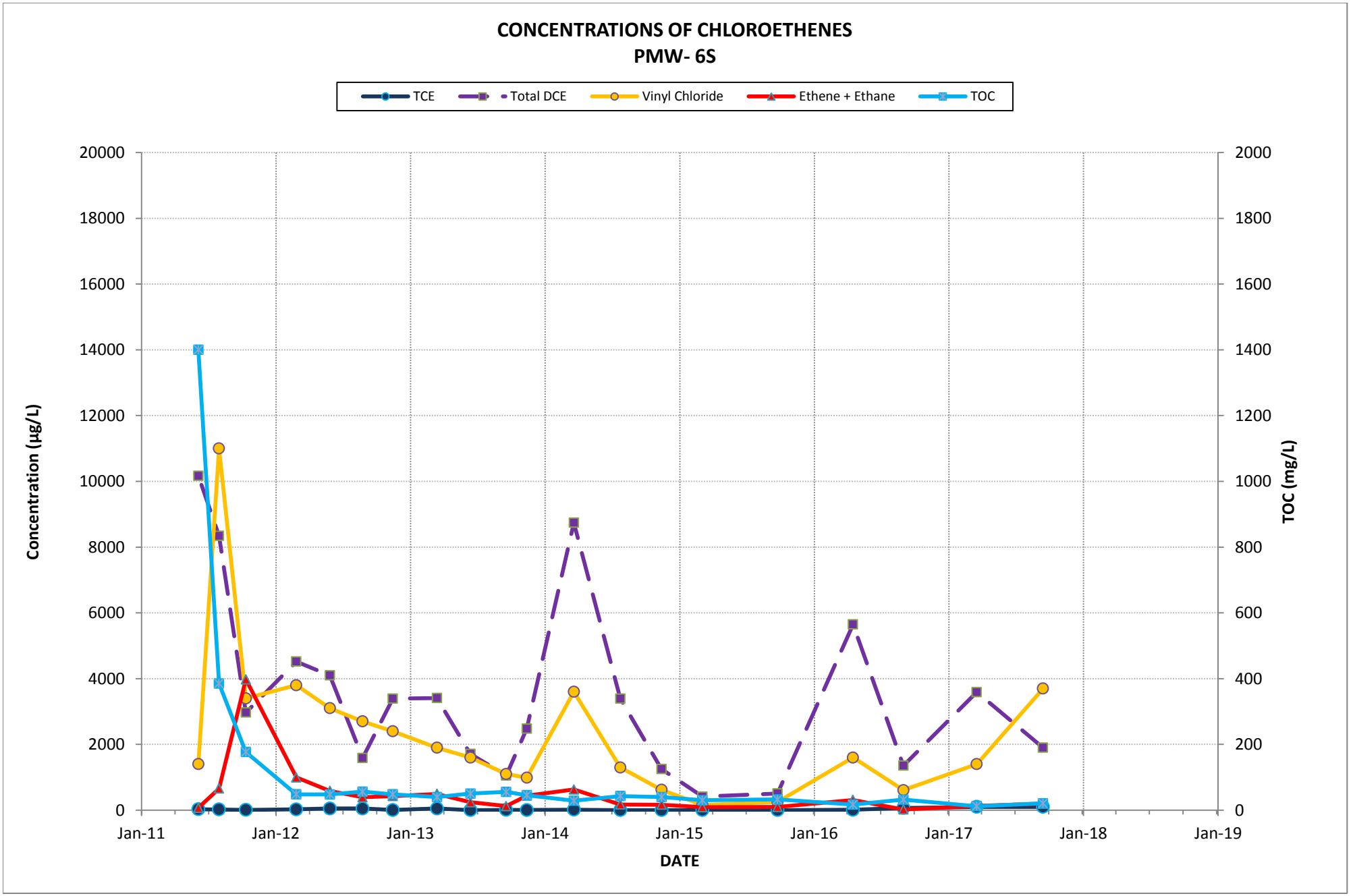

CONCENTRATIONS OF CHLOROETHENES
PMW- 2S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
7000
6000
5000
4000
3000
2000
1000
0
500
450
400
350
300
250
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100
50
0
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Jan-17
Jan-18

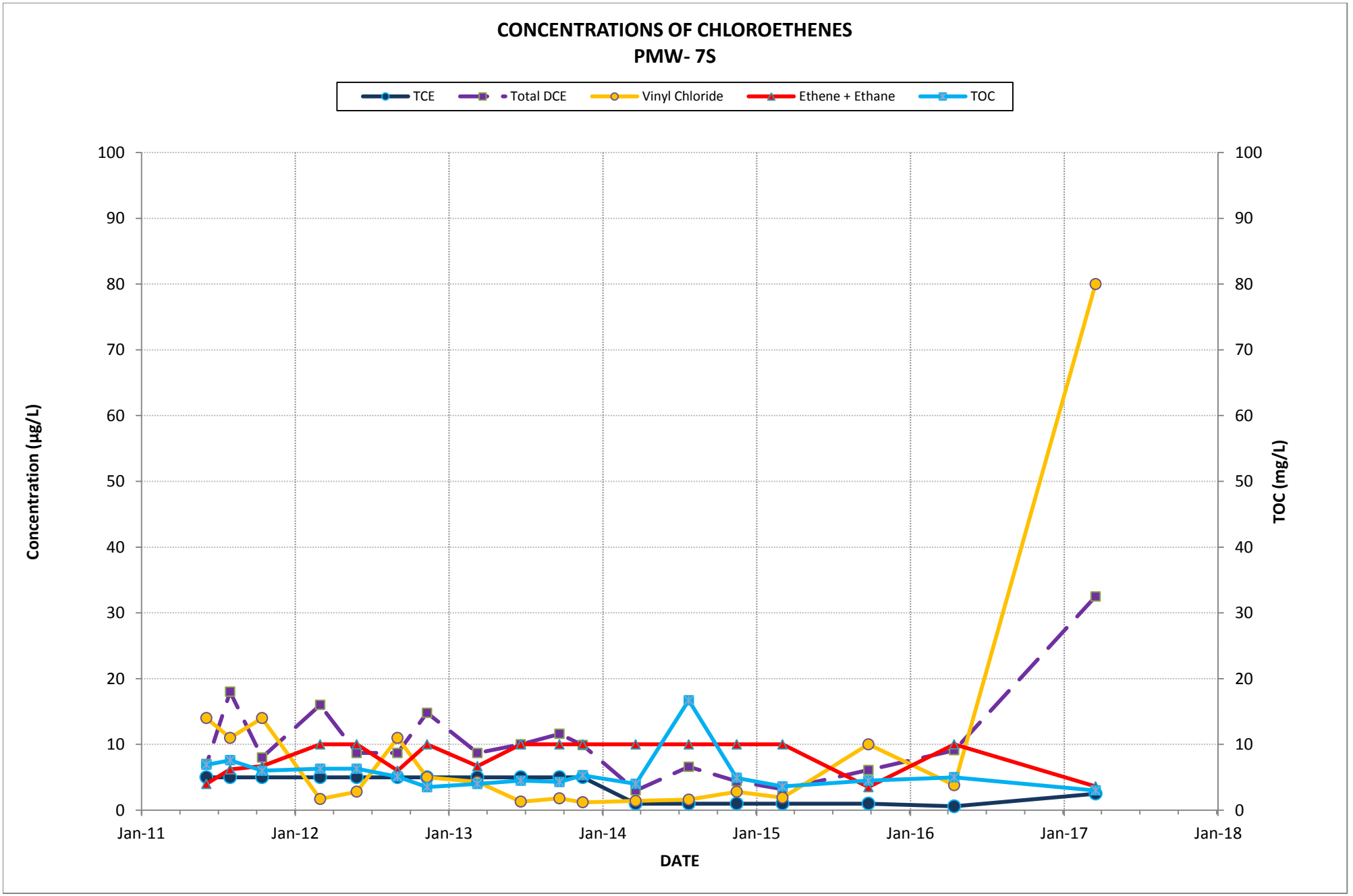

CONCENTRATIONS OF CHLOROETHENES
PMW- 3S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
300
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0
Jan-11
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Jan-19

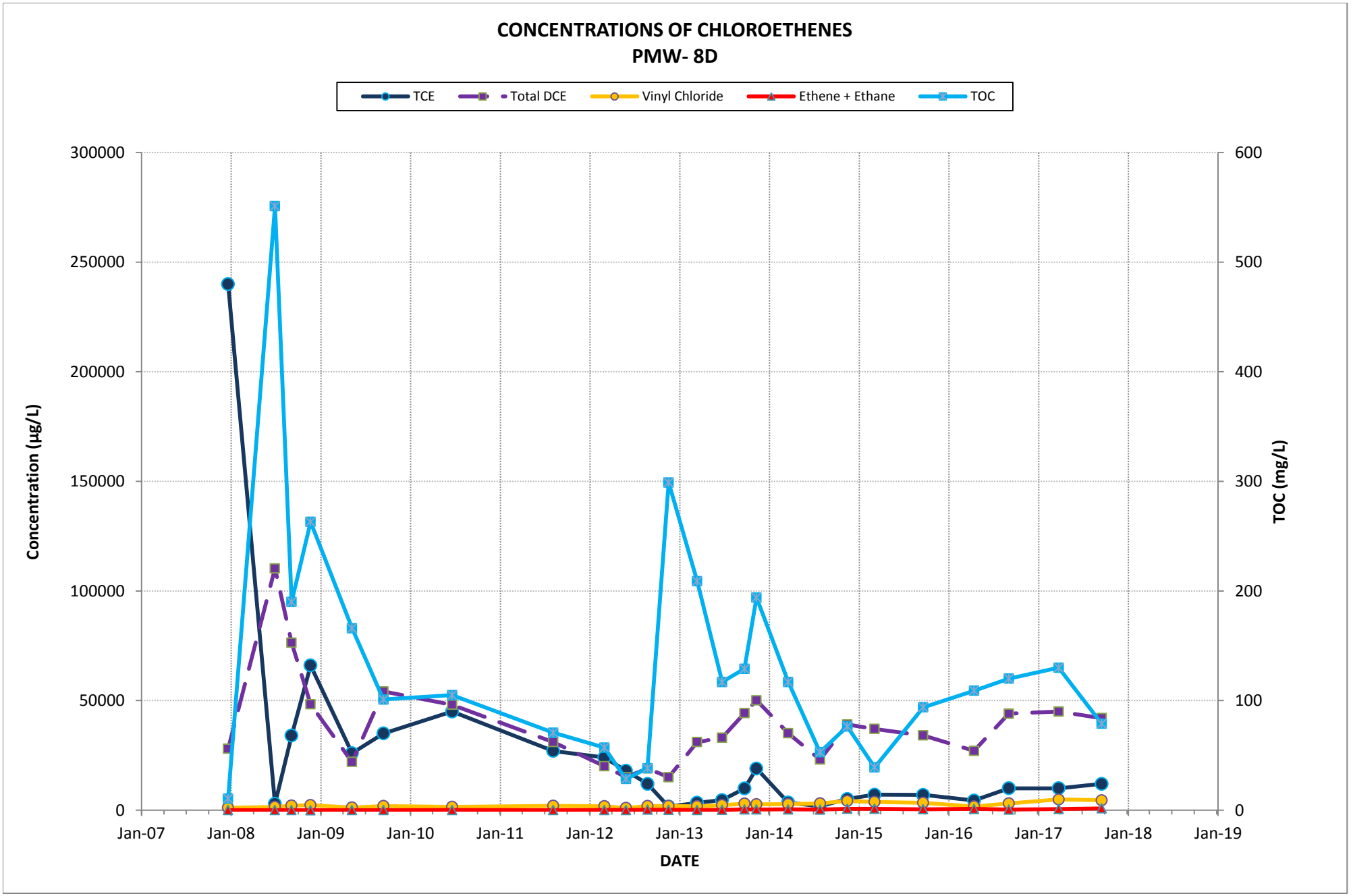

CONCENTRATIONS OF CHLOROETHENES
PMW- 4S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
100
90
80
70
60
50
40
30
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Jan-19

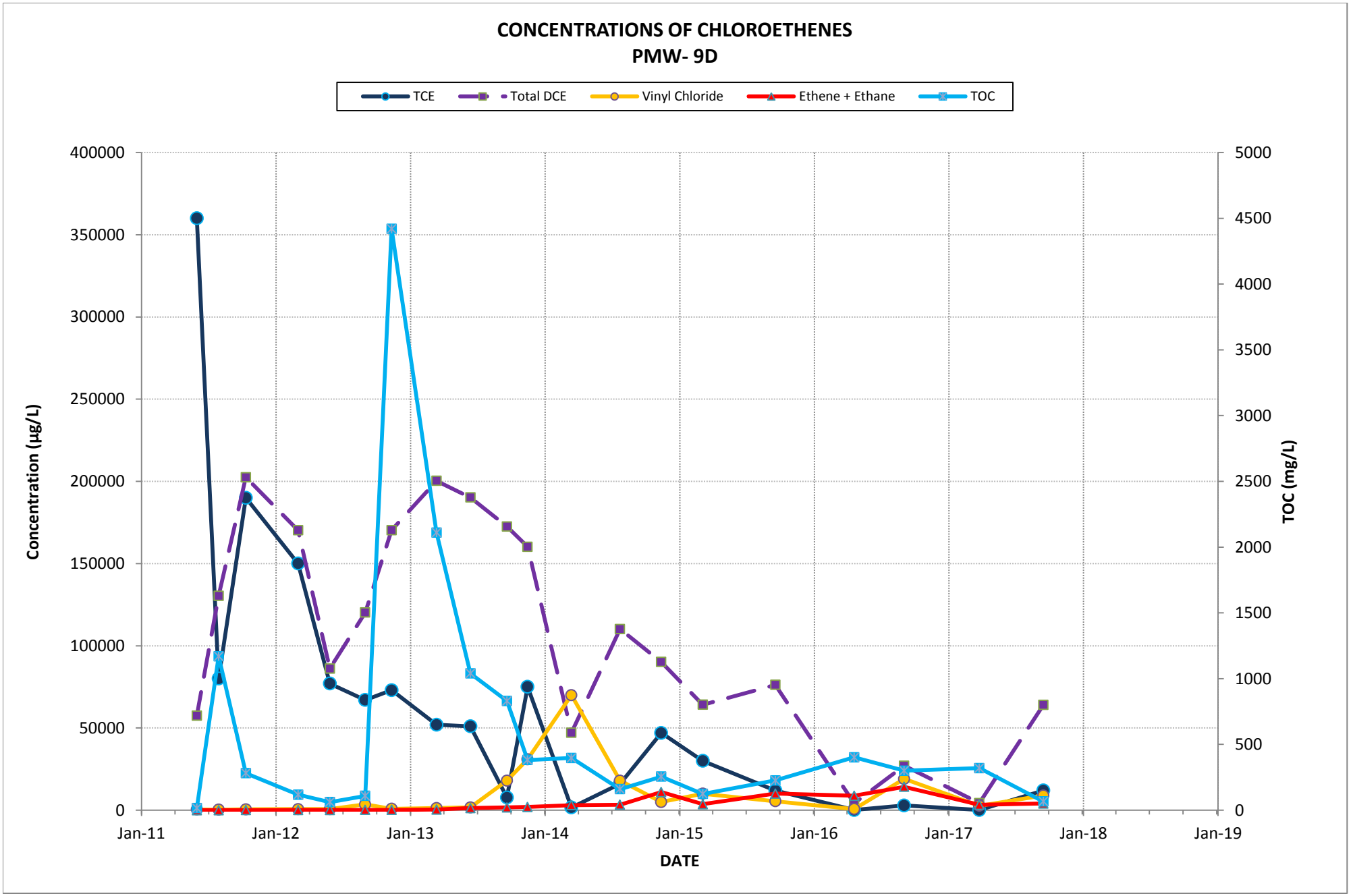

CONCENTRATIONS OF CHLOROETHENES
PMW- 5S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
60200
50200
40200
30200
20200
10200
200
TOC (mg/L)
100
90
80
70
60
50
40
30
20
10
0
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Jan-12
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Jan-15
Jan-16
Jan-17
Jan-18
DATE

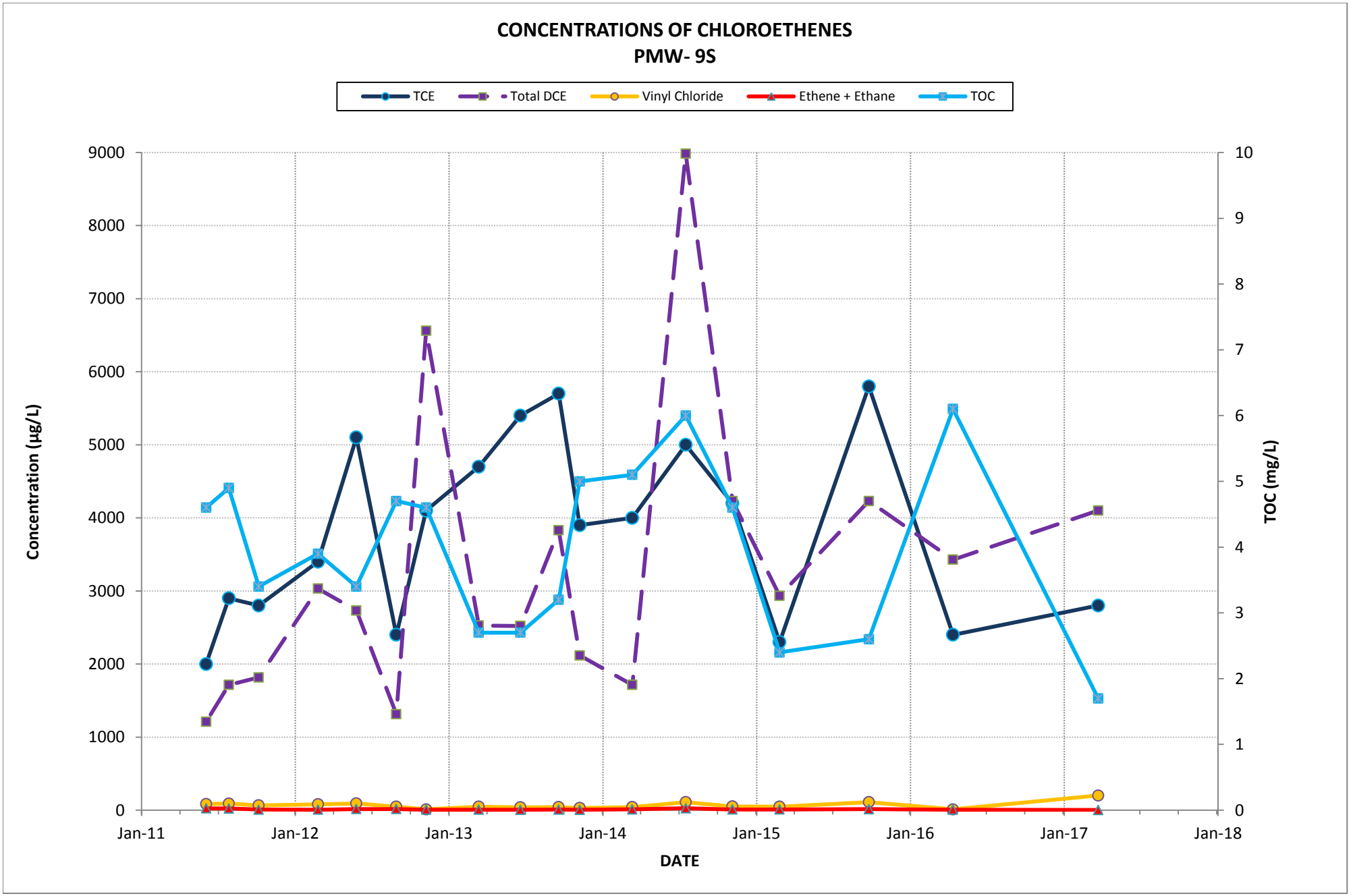

CONCENTRATIONS OF CHLOROETHENES
PMW- 6D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
1000
900
800
700
600
500
400
300
200
100
0
Jan-07
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Jan-19

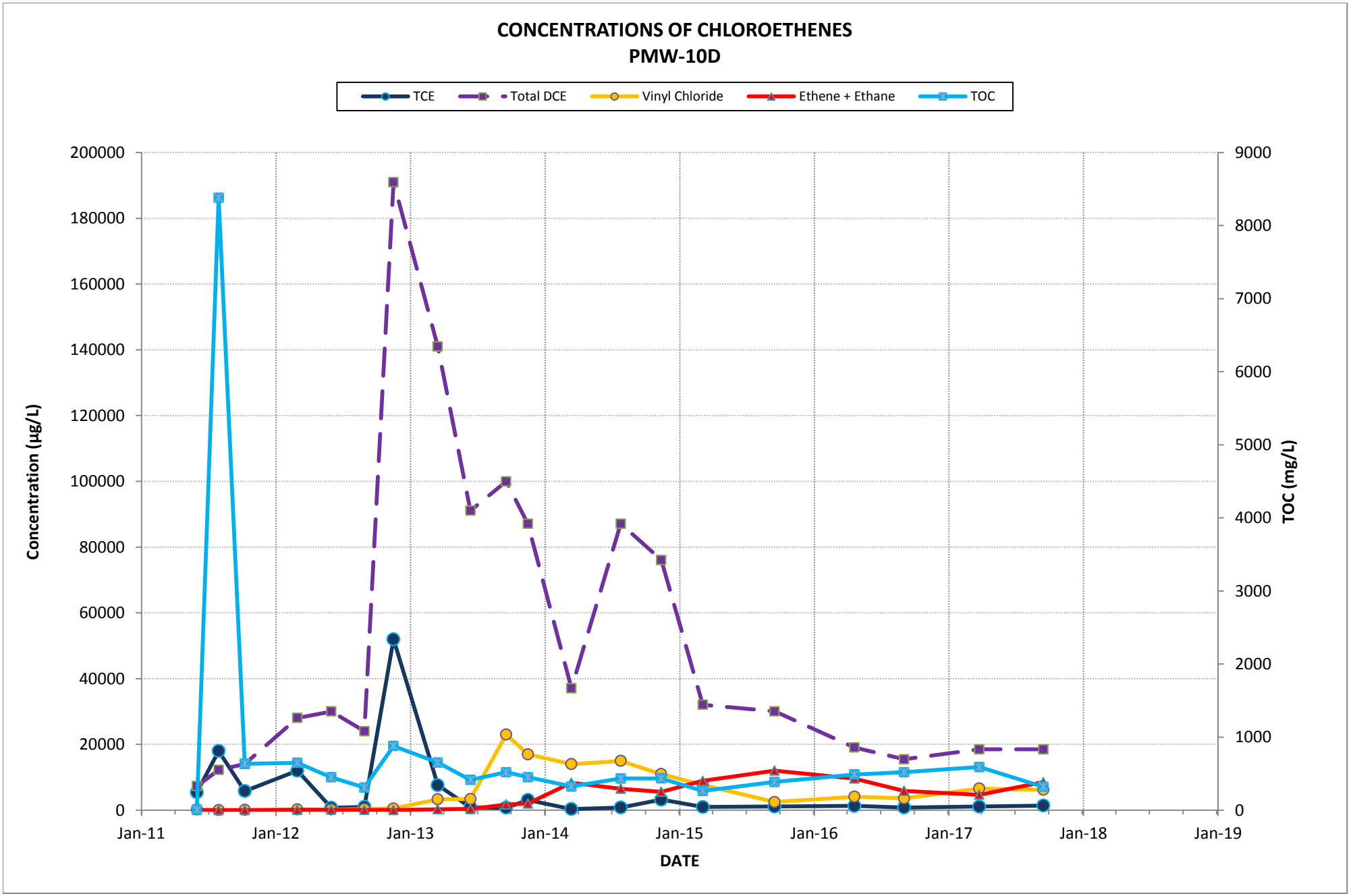

CONCENTRATIONS OF CHLOROETHENES
PMW- 6S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2000
1800
1600
1400
1200
1000
800
600
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Jan-19

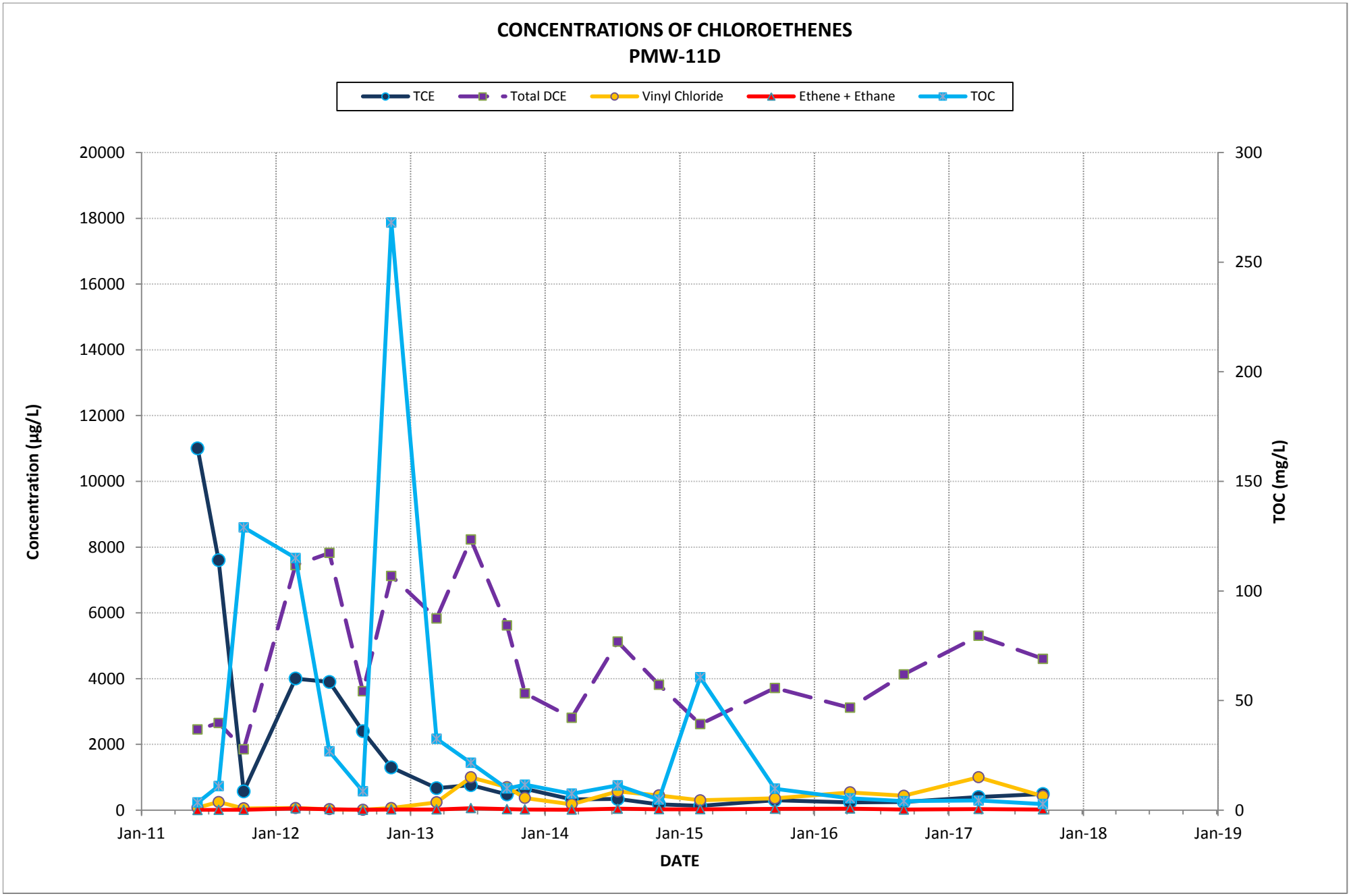

CONCENTRATIONS OF CHLOROETHENES
PMW- 7S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
0
10
20
30
40
50
60
70
80
90
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Jan-18

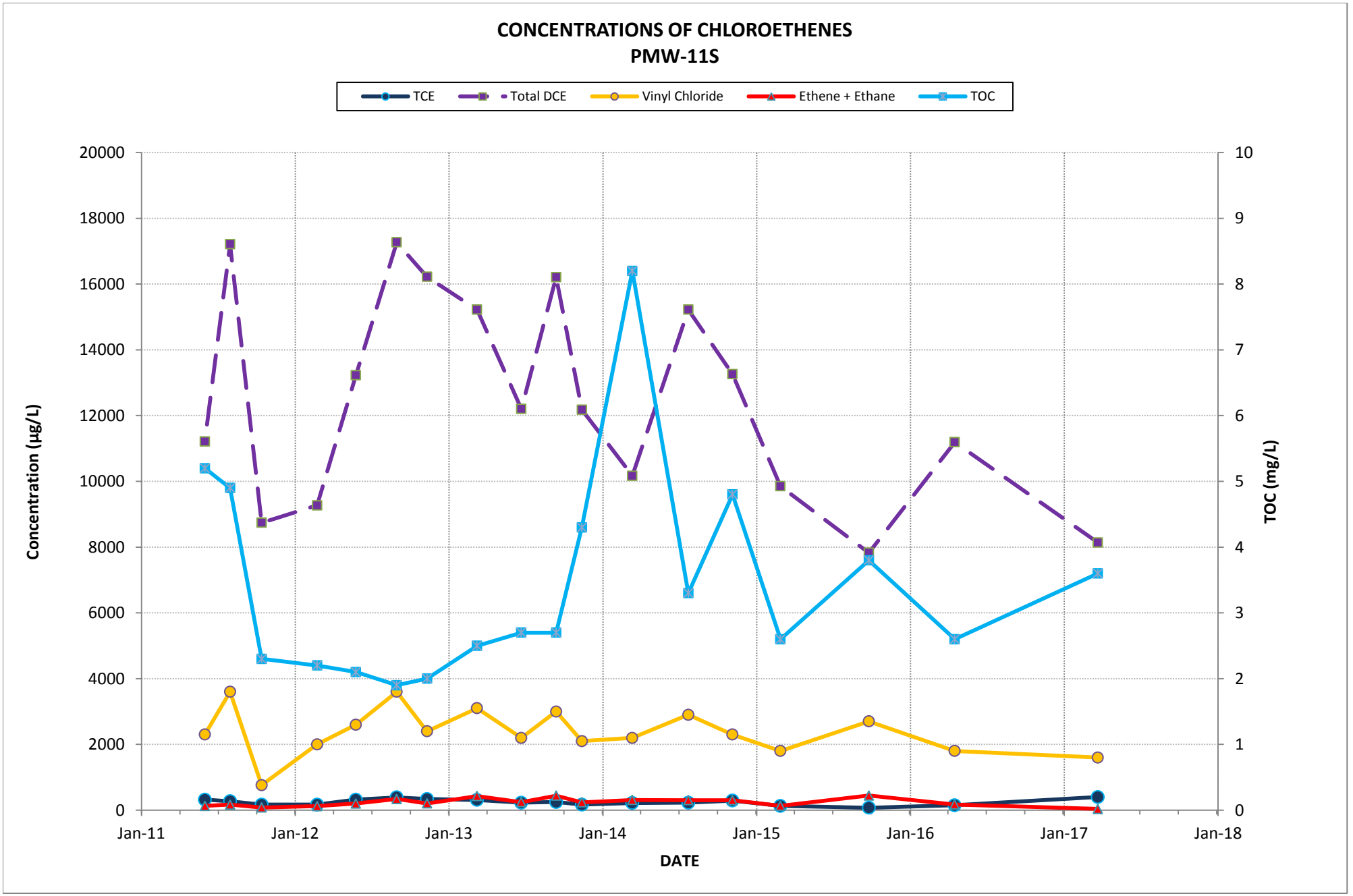

CONCENTRATIONS OF CHLOROETHENES
PMW- 8D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
300000
250000
200000
150000
100000
50000
0
600
500
400
300
200
100
0
Jan-07
Jan-08
Jan-09
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Jan-16
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Jan-18
Jan-19
DATE

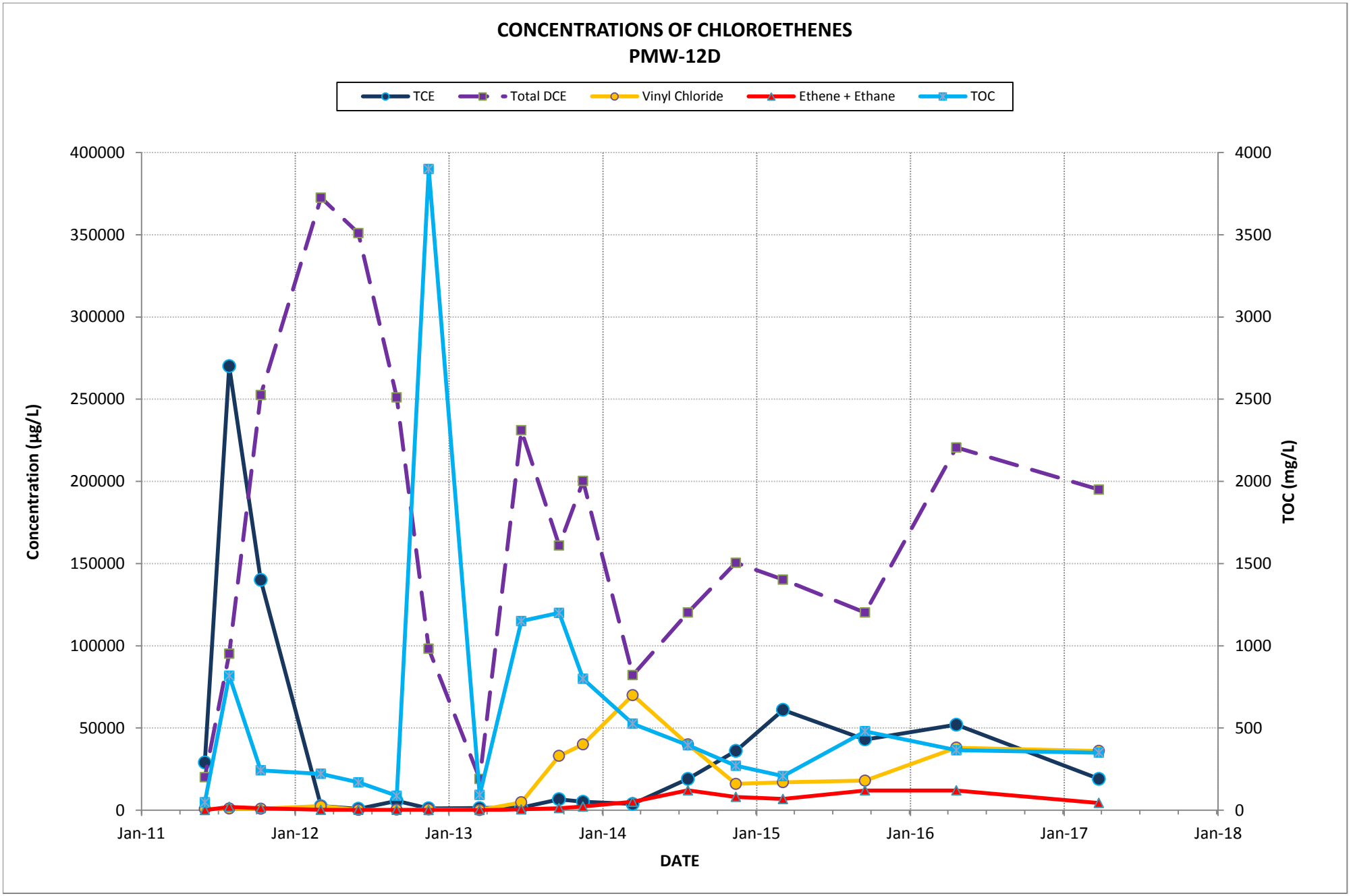

CONCENTRATIONS OF CHLOROETHENES
PMW- 9D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
400000
350000
300000
250000
200000
150000
100000
50000
0
5000
4500
4000
3500
3000
2500
2000
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Jan-18
Jan-19

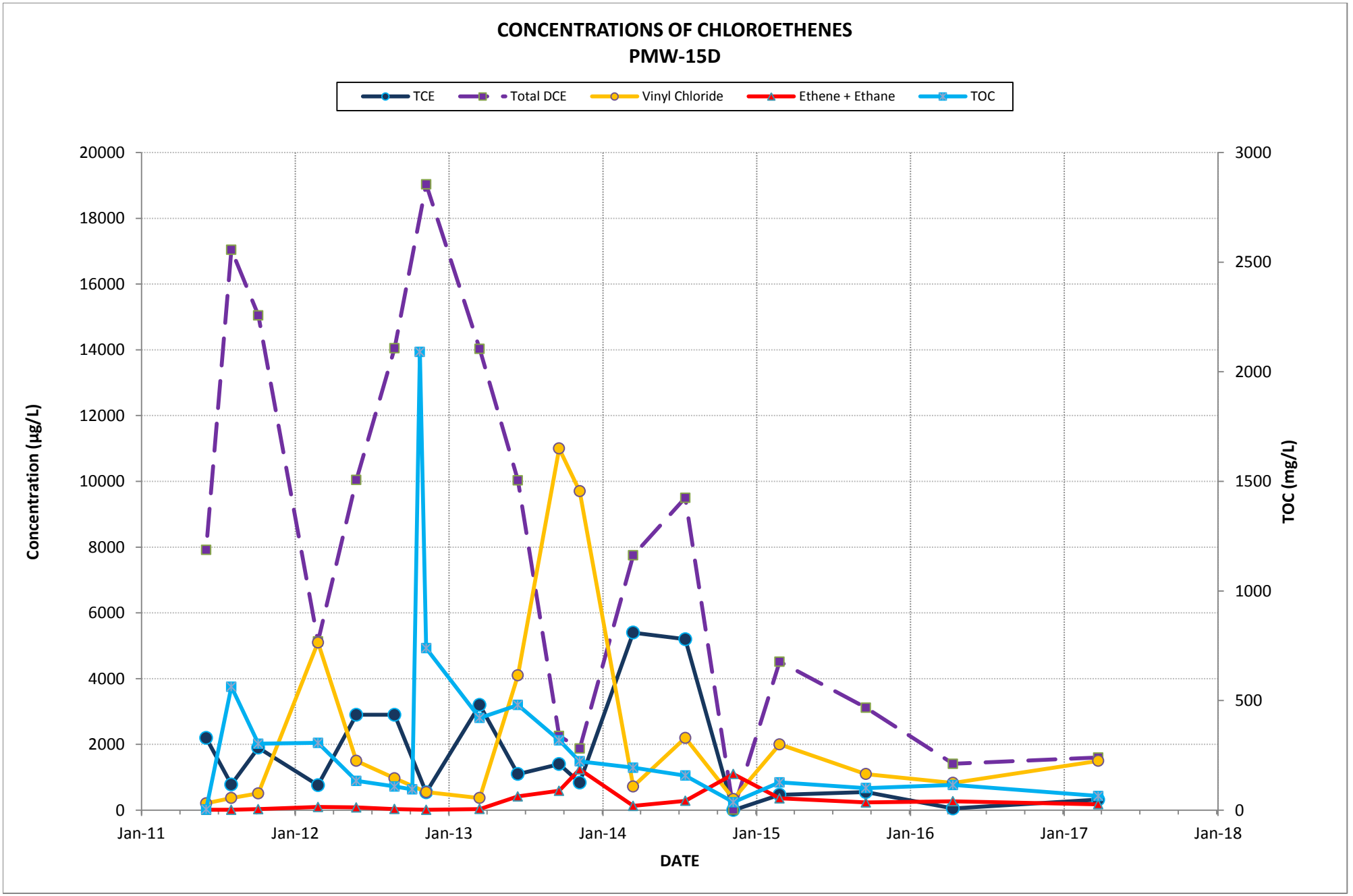

CONCENTRATIONS OF CHLOROETHENES
PMW- 9S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
1
2
3
4
5
6
7
8
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10
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Jan-16
Jan-17
Jan-18

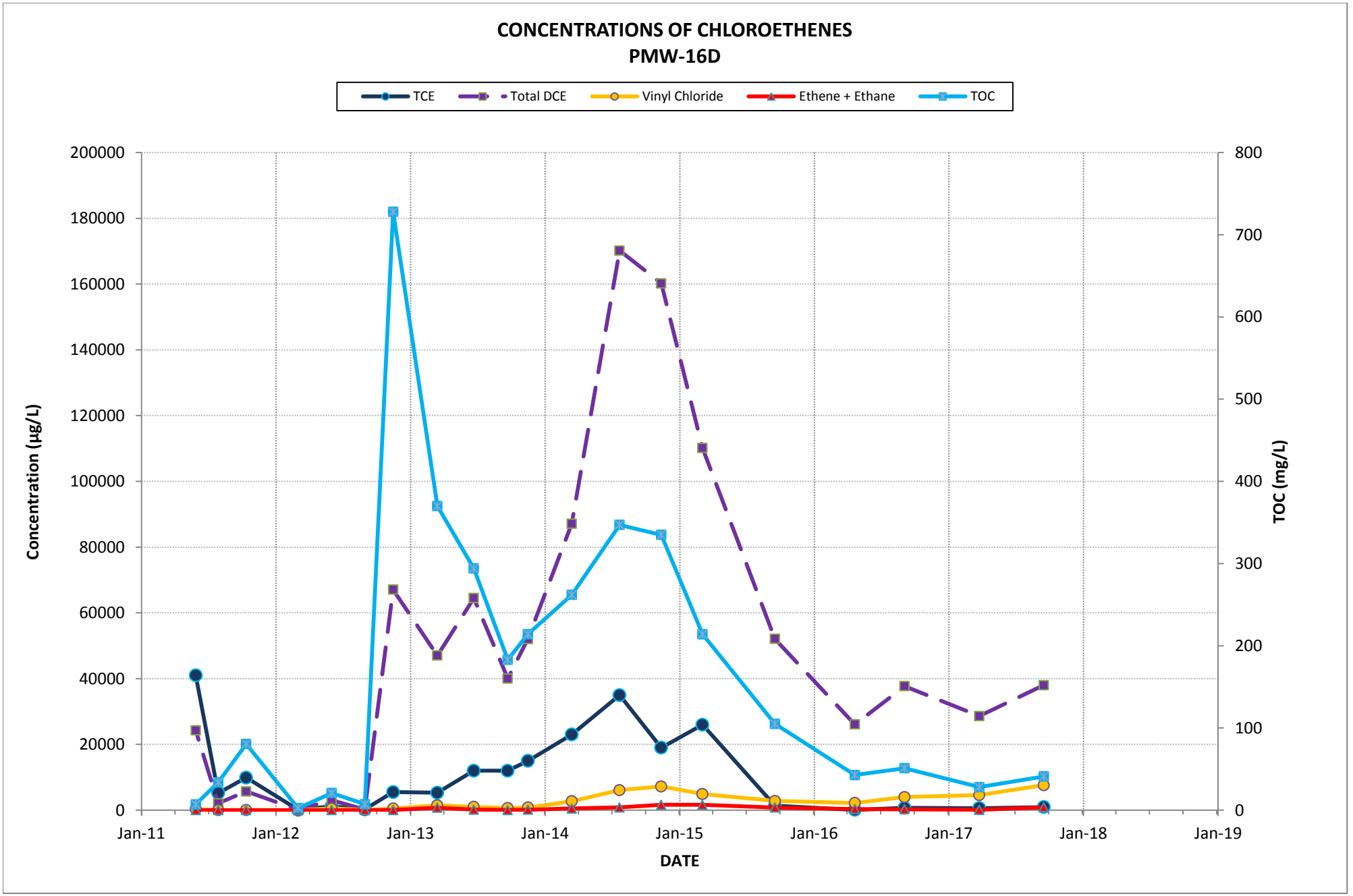

CONCENTRATIONS OF CHLOROETHENES
PMW-10D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
9000
8000
7000
6000
5000
4000
3000
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Jan-18
Jan-19

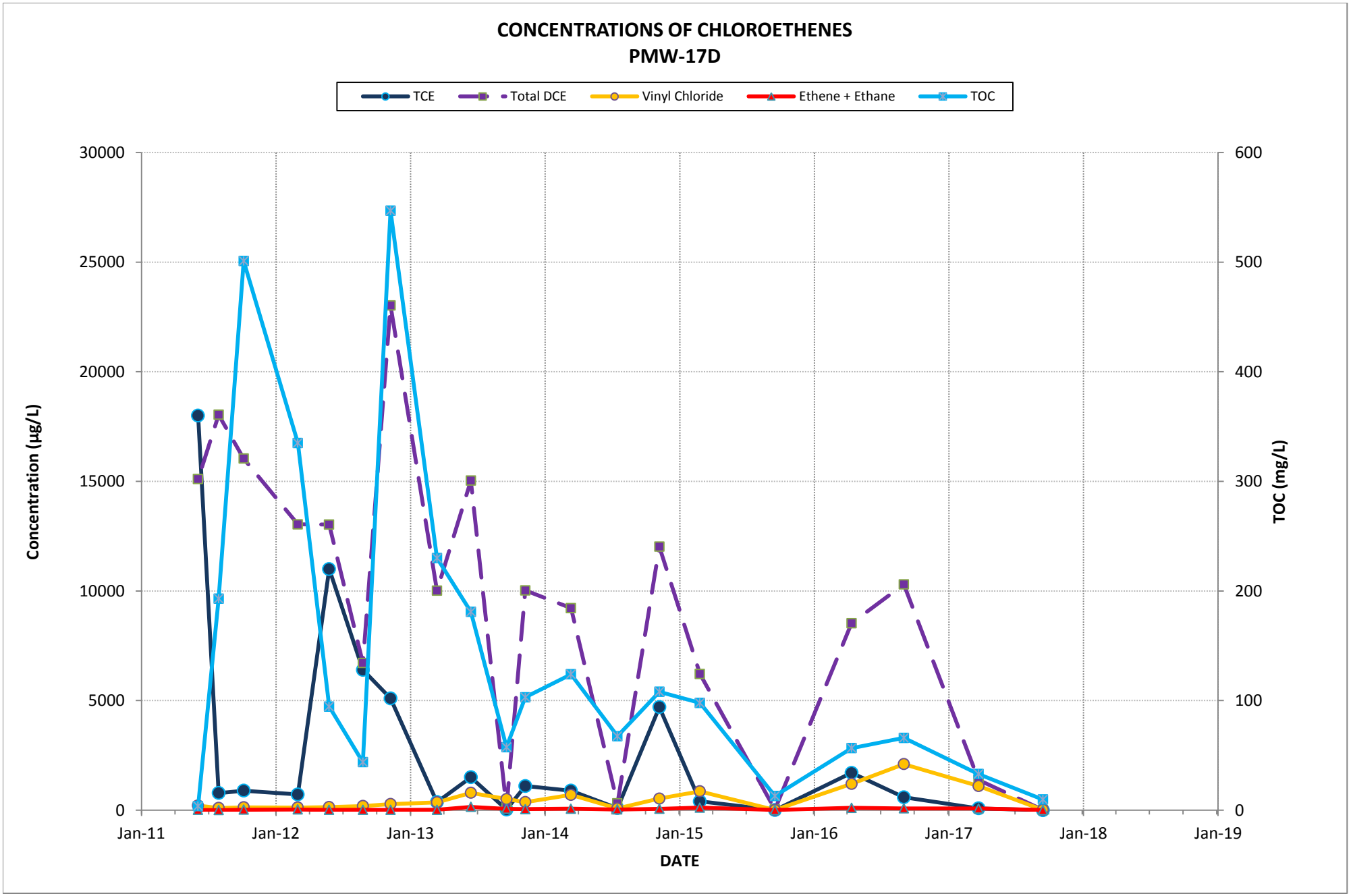

CONCENTRATIONS OF CHLOROETHENES
PMW-11D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
50
100
150
200
250
300
Jan-11
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Jan-18
Jan-19

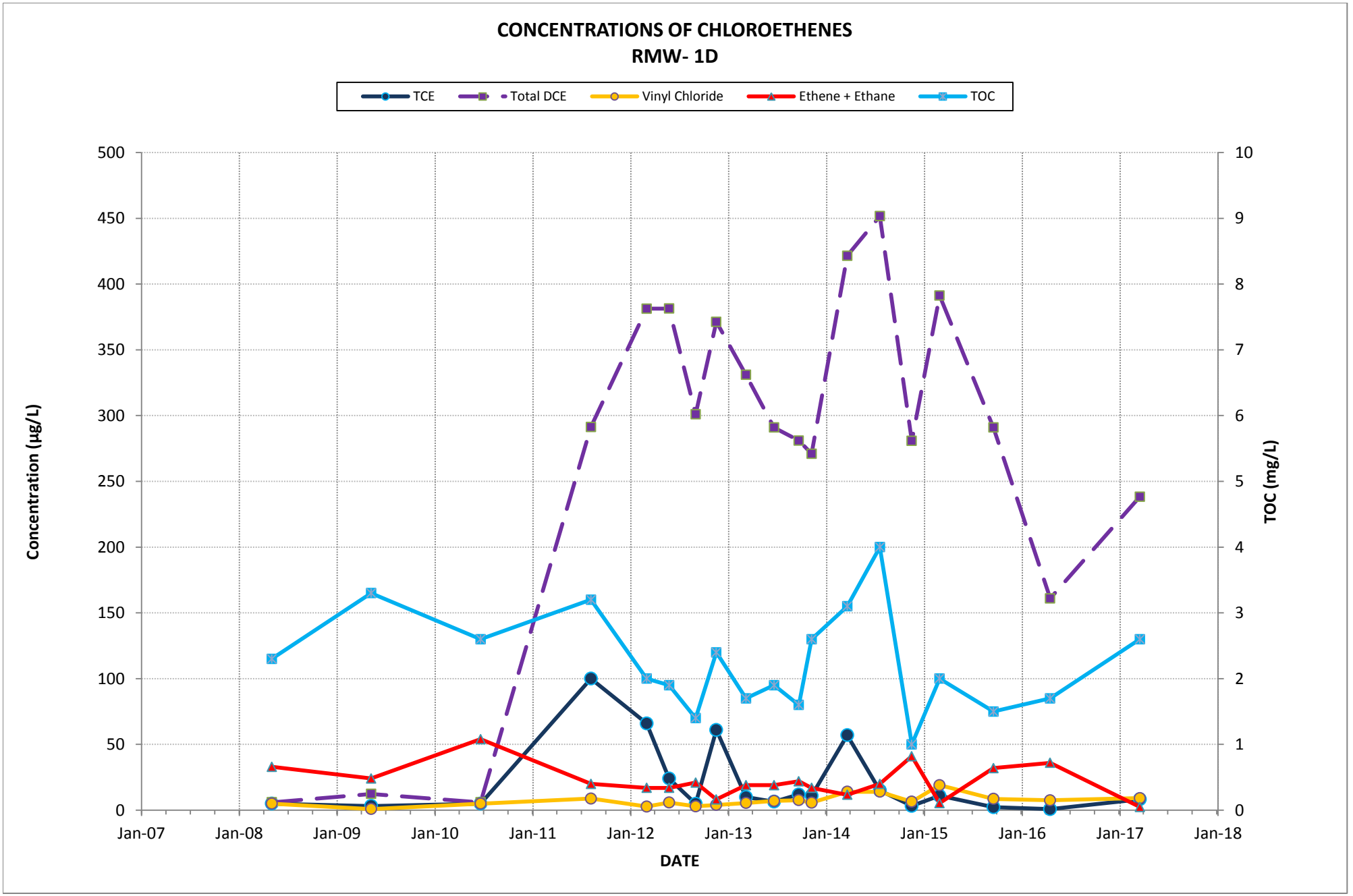

CONCENTRATIONS OF CHLOROETHENES
PMW-11S
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
10
9
8
7
6
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2
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Jan-12
Jan-13
Jan-14
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Jan-16
Jan-17
Jan-18

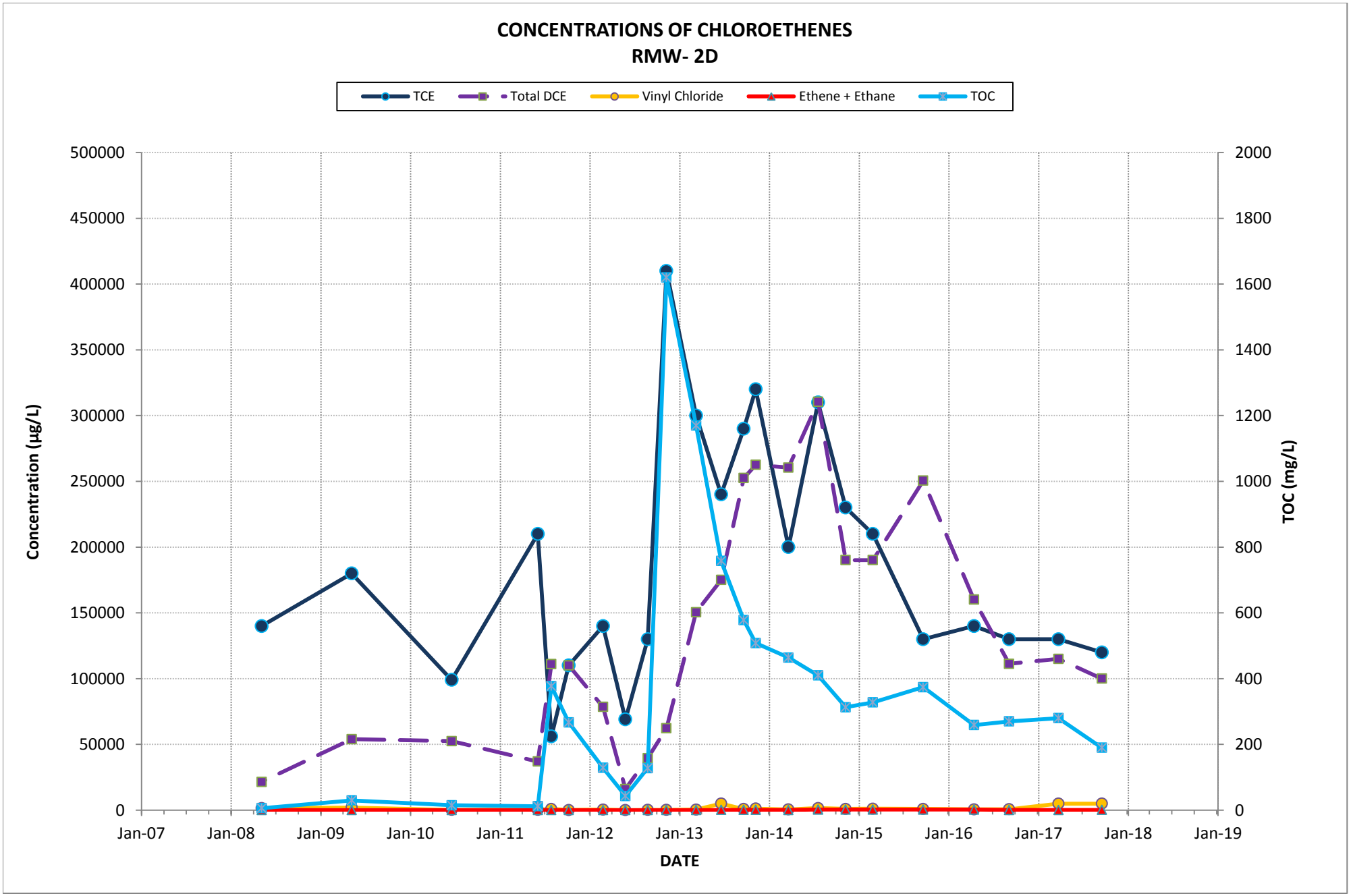

CONCENTRATIONS OF CHLOROETHENES
PMW-12D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
400000
350000
300000
250000
200000
150000
100000
50000
0
4000
3500
3000
2500
2000
1500
1000
500
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
DATE

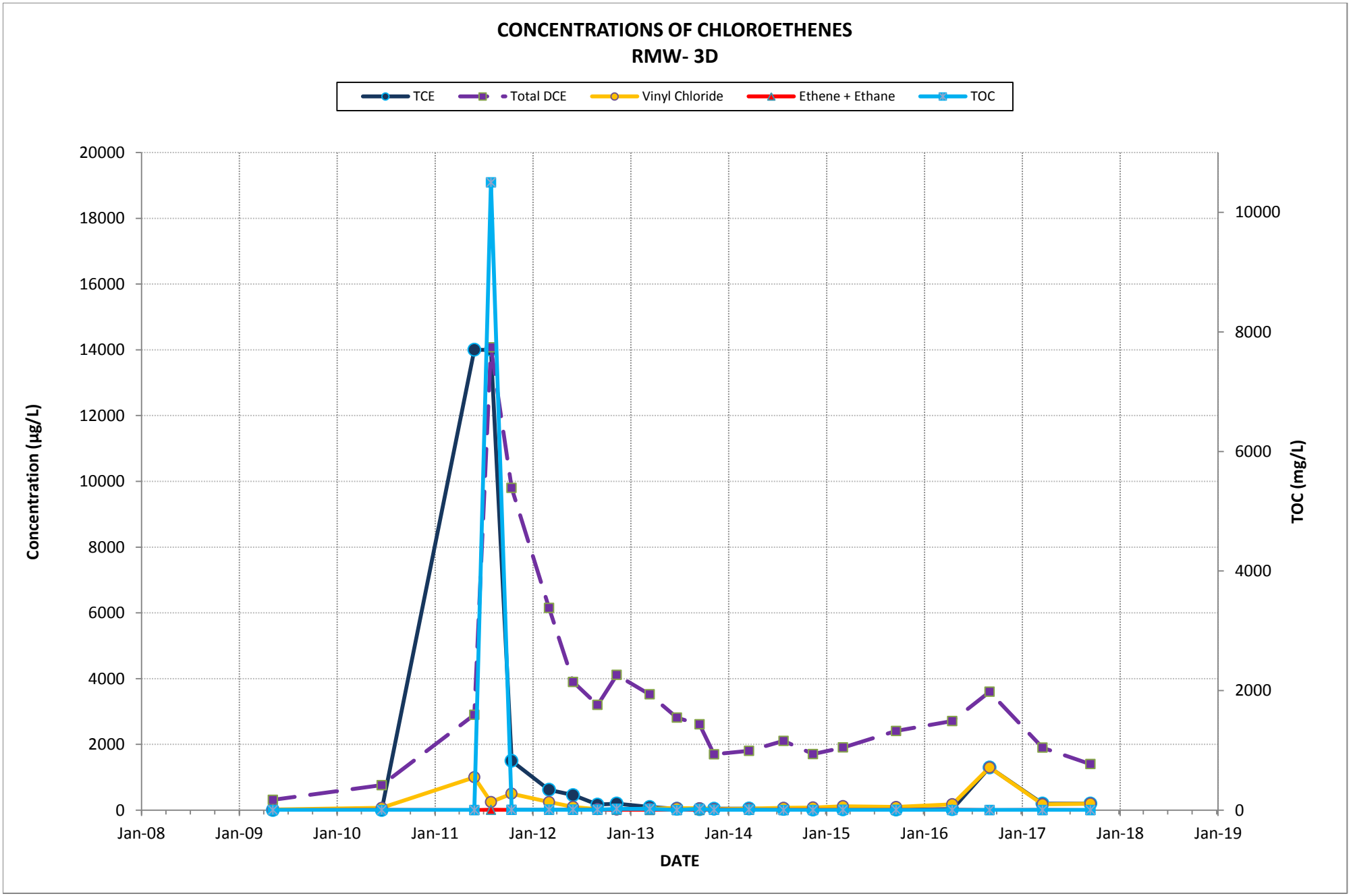

CONCENTRATIONS OF CHLOROETHENES
PMW-15D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
3000
2500
2000
1500
1000
500
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18

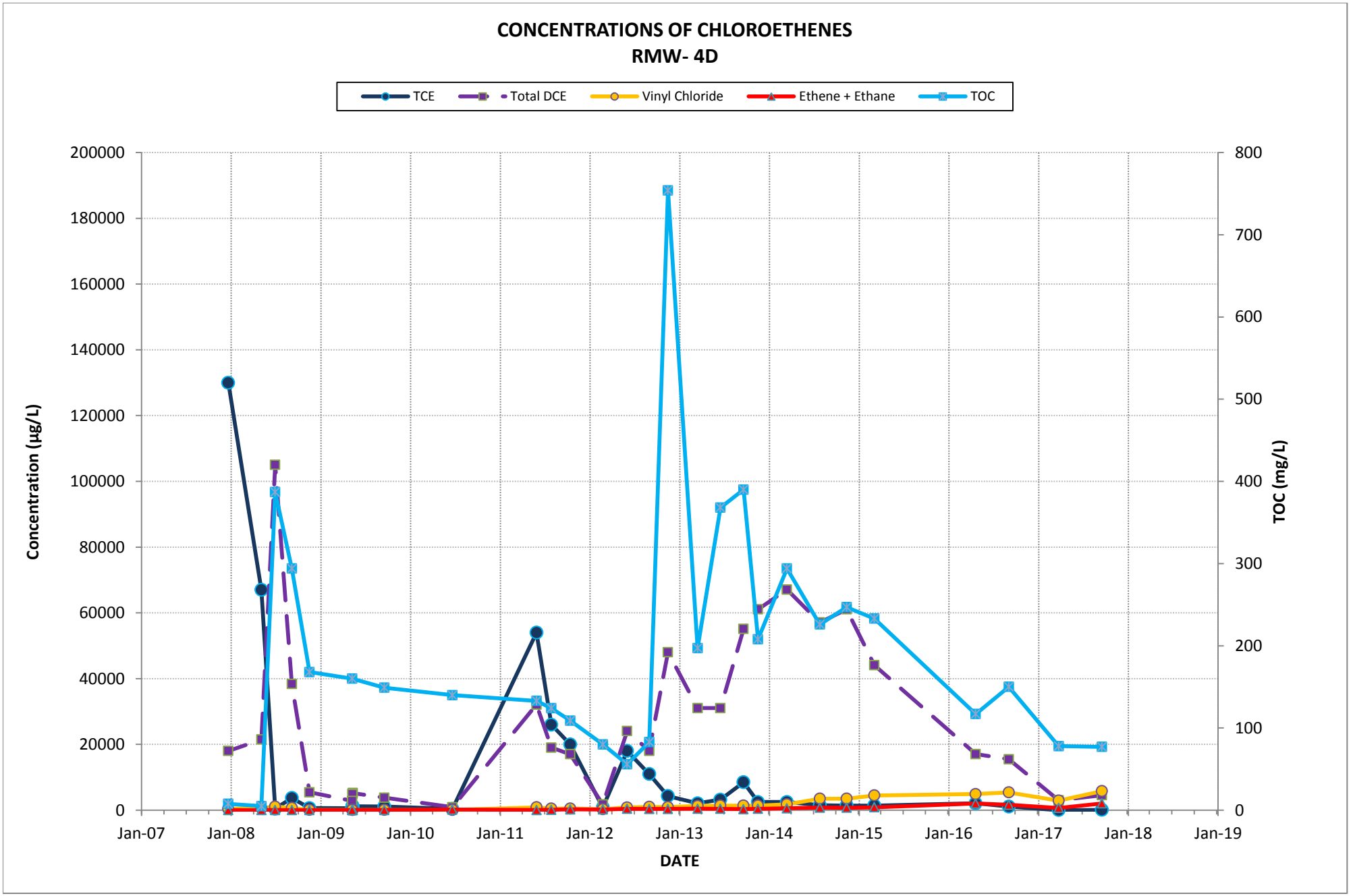

CONCENTRATIONS OF CHLOROETHENES
PMW-16D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
800
700
600
500
400
300
200
100
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19


CONCENTRATIONS OF CHLOROETHENES
PMW-17D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
30000
25000
20000
15000
10000
5000
0
600
500
400
300
200
100
0
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
DATE


CONCENTRATIONS OF CHLOROETHENES
RMW- 1D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
0
50
100
150
200
250
300
350
400
450
500
0
1
2
3
4
5
6
7
8
9
10
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18


CONCENTRATIONS OF CHLOROETHENES
RMW- 2D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
DATE


CONCENTRATIONS OF CHLOROETHENES
RMW- 3D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19


CONCENTRATIONS OF CHLOROETHENES
RMW- 4D
TCE
Total DCE
Vinyl Chloride
Ethene + Ethane
TOC
Concentration (µg/L)
TOC (mg/L)
DATE
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
800
700
600
500
400
300
200
100
0
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19